Analytical Resources, LLC
Analytical Chemists and Consultants

23 May 2023

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

RE: AOC5 MR Phase 1

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

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

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

Associated Work Order(s)	Associated SDG ID(s)
23C0752	N/A

Susan Dunnihoo
Digitally signed by Susan Dunnihoo
Date: 2023.05.23 16:19:00 -07'00'

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

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

Analytical Resources, LLC

Susan Dunnihoo, Director, Client Services

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

Accredited in accordance with nelac
Cert# 100006-012

1 of 1

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 3451

Project/Client Name: LDW AOC5 MR Phase1
Project Number: 210075.01.02
Contact Name: Amara Vandervort
Sampled By: Windward

Ship to: ARL
Attn: Sue Dunnihoo
Shipper: courier
Form filled out by: S. Replinger

Shipping Date: 3/30/2023
Airbill Number: —
Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) PCBs	SMS SVOCs	SMS Metals	TOC / Total Solids	Dioxins/ Furans	Archive		Comments / Instructions [Jar tag number(s)]
3.30.2023	1037	LDW23-SS1026	4	Sediment	X	X	X	X	NA	X		
"	1110	LDW23-SS1125	4	Sediment	X	X	X	X	NA	X		
"	1130	LDW23-SS1132	4	Sediment	X	X	X	X	NA	X		
		Total Number of Containers	12	Purchase Order / Statement of Work # APJ-110222-AOC5-ARL								

K McPeek 3/30/23

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Kate McPeek	Jacob Walter	Print name:	
Signature:	Company: ARI, LLC	Signature:	Company:
Company: Windward		Company:	
Date/Time: 3/31/23 1625	Date/Time: 3/31/23 1625	Date/Time:	Date/Time:

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

Wind Ward environmental LLC

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

206.378.1364

To be completed by Laboratory upon sample receipt:

Date of receipt:: 3/30/23	Laboratory W.O. #: 23C0752
Condition upon receipt: good	Time of receipt: 16:25
Cooler temperature: 3.0°C	Received by: Jacob Walter

1 of 1

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 4165

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

Ship to: ARL
Attn: Sue Dunihoo
Shipper: courier
Form filled out by: K McPeek

Shipping Date: 3/30/23
Airbill Number: —
Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) PCBs	SMS SVOCs	SMS metals	TOC Total solids	DIF	Archive	Arsenic from CLP	Hits from CLP	Comments / Instructions [Jar tag number(s)]
3/30/23	1036	LOW23-SS1810	4	sediment	X	X	X	X	N/A	X			
	1100	LOW23-SC1810	4		X			X		X			
	1430	LOW23-SS1809	4		X	X	X	X	N/A	X			
	1455	LOW23-SC1809	4		X			X					
		Total Number of Containers	16	Purchase Order / Statement of Work # APS-110222-AOC5ARL									

KMcP 3/30/23

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Kate McPeek	Jacob Walter	Print name:	
Signature:	Company: ARI, LLC	Signature:	Company:
Company: Windward		Company:	
Date/Time: 3/30/23 1625	Date/Time: 3/30/23 1625	Date/Time:	Date/Time:

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

Windward environmental LLC
200 West Mercer Street
Suite 401
Seattle, WA 98119
Tel: (206) 378-1364
Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt:: 3/30/23	Laboratory W.O. #: 23C0752
Condition upon receipt: good	Time of receipt: 16:25
Cooler temperature: 3.0°C	Received by: Jacob Walter

Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Anchor/Windward

Project Name: AOC5 NR Phase 1

COC No(s): 3451, 4165 NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other:

Assigned ARI Job No: 23A 03/30/23

Tracking No: NA

Preliminary Examination Phase:

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

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1641 3.4

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: IR0097d8

Cooler Accepted by: JS Date: 03/30/23 Time: 1625

Complete custody forms and attach all shipping documents

Log-In Phase:

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

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

Samples Logged by: PIB Date: 10/31/23 PIB 3/31 Time: 10:27 Labels checked by: PIB

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

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

Additional Notes, Discrepancies, & Resolutions:

By: Date:

Anchor QEA, LLC	Project: AOC5 MR Phase 1	
1201 3rd Ave, Suite 2600	Project Number: 210075-01.02	**Reported:**
Seattle, WA 98101	Project Manager: Ali Judkins	05/23/2023 12:30

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
23C0752-01	LDW23-SS1026	Solid	03/30/23 10:37	03/30/23 16:25
23C0752-02	LDW23-SS1125	Solid	03/30/23 11:10	03/30/23 16:25
23C0752-03	LDW23-SS1132	Solid	03/30/23 11:30	03/30/23 16:25
23C0752-04	LDW23-SS1810	Solid	03/30/23 10:36	03/30/23 16:25
23C0752-05	LDW23-SC1810	Solid	03/30/23 11:00	03/30/23 16:25
23C0752-06	LDW23-SS1809	Solid	03/30/23 14:30	03/30/23 16:25
23C0752-07	LDW23-SC1809	Solid	03/30/23 14:55	03/30/23 16:25

Anchor QEA, LLC	Project: AOC5 MR Phase 1	
1201 3rd Ave, Suite 2600	Project Number: 210075-01.02	**Reported:**
Seattle WA, 98101	Project Manager: Ali Judkins	23-May-2023 12:30

Case Narrative

Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Work Order: 23C0752

Sample receipt

Samples as listed on the preceding page were received 30-Mar-2023 16:25 under ARI work order 23C0752. For details regarding sample receipt, please refer to the Cooler Receipt Form. Samples were frozen on receipt to preserve holding times.

Semivolatiles - EPA Method SW8270E

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

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

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

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

The blank spike (BS/LCS) percent recovery for benzo(g,h,i)perylene was high of control limits. The blank spike duplicate (BSD/LCSD) spike recoveries and relative percent differences (RPD) were within control limits.

The matrix spike/matrix spike duplicate (MS/MSD) percent recoveries outside advisory control limits are flagged on the summary sheet. The relative percent differences (RPD) were within advisory control limits.

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

Semivolatiles - EPA Method SW8270E-SIM

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

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

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

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

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

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

Pesticides - EPA Method SW8081B (Hexachlorobenzene)

Anchor QEA, LLC	Project: AOC5 MR Phase 1	
1201 3rd Ave, Suite 2600	Project Number: 210075-01.02	**Reported:**
Seattle WA, 98101	Project Manager: Ali Judkins	23-May-2023 12:30

Case Narrative

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

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits. The internal standard hexabromobiphenyl (HBB) does not apply to this compound and is not addressed.

The surrogate percent recoveries were within control limits.

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

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

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

PCB Aroclors - EPA Method SW8082A

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

The response for aroclor 1260 was high of limits for several standards on the ZB5 column in sequence SLE0171, attributed to matrix effect on the internal standard. The internal standard hexabromobiphenyl was low of limits for standards and several samples. Affected samples are reported from the ZB35 column as primary.

The surrogate percent recoveries were within control limits.

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

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

The matrix spike/matrix spike duplicate (MS/MSD) percent recoveries for aroclor 1016 were low of advisory control limits, and the relative percent differences (RPD) were within advisory control limits.

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

Results that have been "P1"-flagged indicate a greater than 40% difference between the results on the two analytical columns, attributed to interference from the matrix.

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

Total Metals - EPA Method 6020B

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

Calibration standards SLE0043-CCVB, SLE0043-CCVD and SLE0043-CCVK showed lead high of limits and affected samples were not reported for lead from this run. Analyses where cadmium was noted to be noisy, scandium was high or germanium was low were not reported from the run. SLE0043-IFA showed chromium-53 high. SLE0043-CRL1 showed copper high but passed on the rerun. SLE0043-HCV2 showed lead high.

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

Anchor QEA, LLC	Project: AOC5 MR Phase 1	
1201 3rd Ave, Suite 2600	Project Number: 210075-01.02	**Reported:**
Seattle WA, 98101	Project Manager: Ali Judkins	23-May-2023 12:30

Case Narrative

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

The batch BLD0365 duplicate (DUP) relative percent difference (RPD) were within advisory control limits, reported under work order 23C0752.

The matrix spike (MS) percent recoveries were within advisory control limits. The matrix spike duplicate (MSD) percent recovery and relative percent differences (RPD) for silver were outside advisory control limits. The post spike for silver had an acceptable recovery, reported under work order 23C0752.

Total Mercury - EPA Method 7471B

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

Initial and continuing calibrations were within method requirements.

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

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

The duplicate (DUP) relative percent difference (RPD) were within advisory control limits, reported under work order 23C0752.

The matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and relative percent differences (RPD) were within advisory control limits, reported under work order 23C0752.

Wet Chemistry (Total Organic Carbon and Total Solids)

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

Initial and continuing calibrations were within method requirements.

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

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

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

The matrix spike (MS) percent recovery is high of limits, flagged "HC", indicating a deviation attributed to high concentration in the parent sample.

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

QUALIFIERS AND NOTES

Qualifier	Definition
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
Q	Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20% RSD, <20% drift or minimum RRF)
P1	The reported value is greater than 40% difference between the concentrations determined on two GC columns where applicable.
L	Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to +/- RL instead of 20% RPD
J	Estimated concentration value detected below the reporting limit.
HC	The natural concentration of the spiked analyte is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL)
D	The reported value is from a dilution
B	This analyte was detected in the method blank.
*	Flagged value is not within established control limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1026

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

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

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-01 A	SDG:	23C0752
Sampled:	03/30/23 10:37	Prepared:	04/03/23 11:31	File ID:	NT1004192341.D
% Solids:	50.24	Preparation:	EPA 3546 (Microwave)	Analyzed:	04/20/23 12:45
Batch:	BLD0008	Sequence:	SLD0293	Initial/Final:	19.98 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00046
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
108-95-2	Phenol	1	28.1		4.4	19.9
106-44-5	4-Methylphenol	1	19.9	U	7.4	19.9
91-20-3	Naphthalene	1	13.0	J	4.2	19.9
91-57-6	2-Methylnaphthalene	1	8.4	J	4.5	19.9
208-96-8	Acenaphthylene	1	8.3	J	6.2	19.9
131-11-3	Dimethylphthalate	1	19.9	U	4.4	19.9
83-32-9	Acenaphthene	1	10.2	J	5.2	19.9
132-64-9	Dibenzofuran	1	19.9	U	14.1	19.9
86-73-7	Fluorene	1	19.9	U	14.5	19.9
85-01-8	Phenanthrene	1	53.0		8.7	19.9
120-12-7	Anthracene	1	34.8		7.2	19.9
206-44-0	Fluoranthene	1	168	Q	6.1	19.9
129-00-0	Pyrene	1	158	Q	5.7	19.9
85-68-7	Butylbenzylphthalate	1	11.1	J	9.4	19.9
56-55-3	Benzo(a)anthracene	1	82.2		5.9	19.9
218-01-9	Chrysene	1	109		6.0	19.9
117-81-7	bis(2-Ethylhexyl)phthalate	1	96.4		5.4	49.8
	Benzofluoranthenes, Total	1	226		10.0	39.8
50-32-8	Benzo(a)pyrene	1	91.8		4.2	19.9
193-39-5	Indeno(1,2,3-cd)pyrene	1	48.8		14.6	19.9
53-70-3	Dibenzo(a,h)anthracene	1	19.9	U	17.2	19.9
191-24-2	Benzo(g,h,i)perylene	1	55.9	Q	13.5	19.9

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	747.16	405	54.3	27 - 120	
Phenol-d5	747.16	435	58.2	29 - 120	
2-Chlorophenol-d4	747.16	456	61.0	31 - 120	
1,2-Dichlorobenzene-d4	498.11	283	56.9	32 - 120	
Nitrobenzene-d5	498.11	285	57.3	30 - 120	
2-Fluorobiphenyl	498.11	295	59.3	35 - 120	

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1026

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

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

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-01 A	SDG:	23C0752
Sampled:	03/30/23 10:37	Prepared:	04/03/23 11:31	File ID:	NT1004192341.D
% Solids:	50.24	Preparation:	EPA 3546 (Microwave)	Analyzed:	04/20/23 12:45
Batch:	BLD0008	Sequence:	SLD0293	Initial/Final:	19.98 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00046
Cleanups:	GPC				

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2,4,6-Tribromophenol	747.16	575	76.9	24 - 134	
p-Terphenyl-d14	498.11	275	55.2	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192341.D

Page 1

Date : 20-APR-2023 12:45

Client ID:

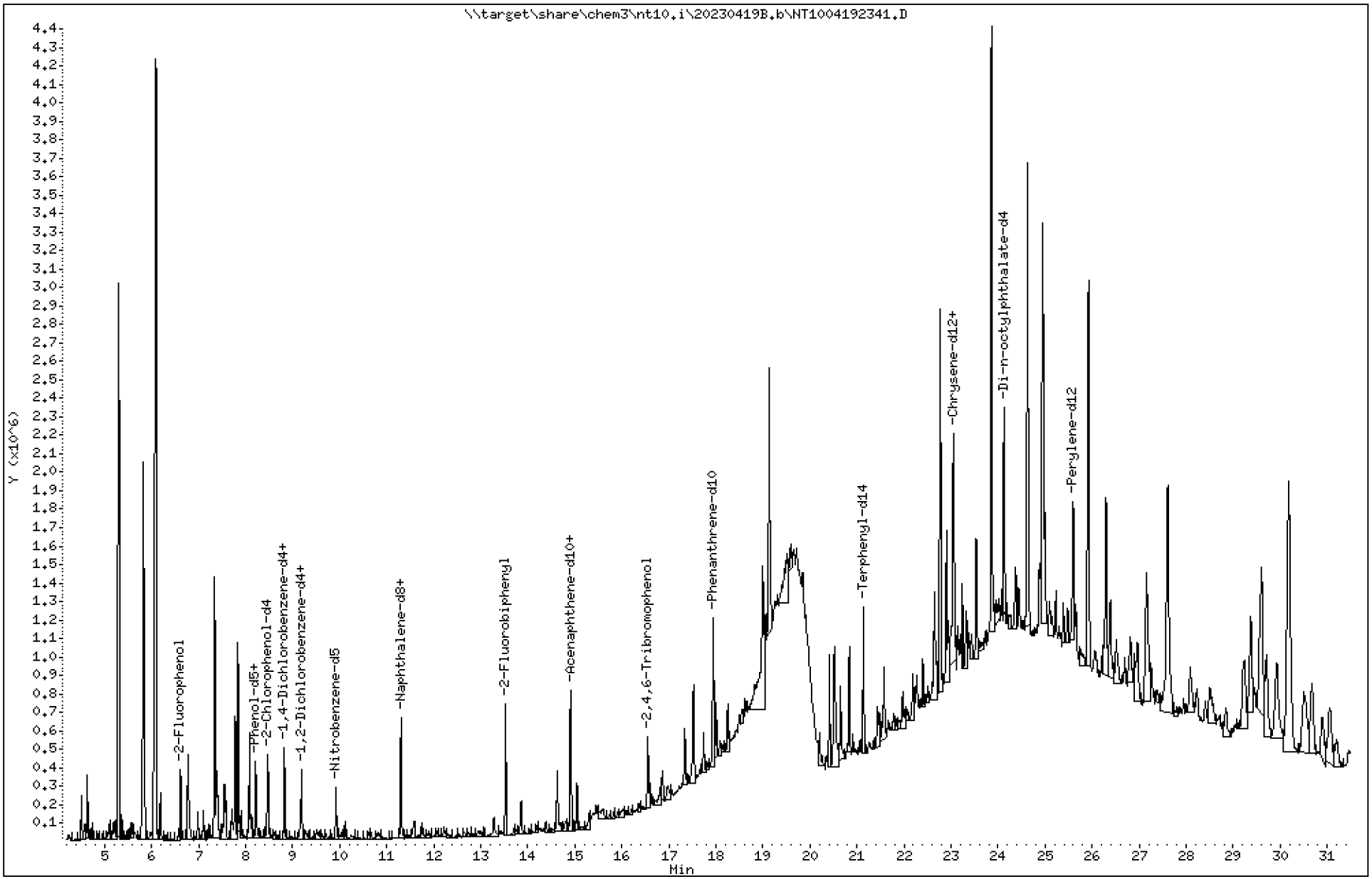
Instrument: nt10.i

Sample Info: 23C0752-01

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

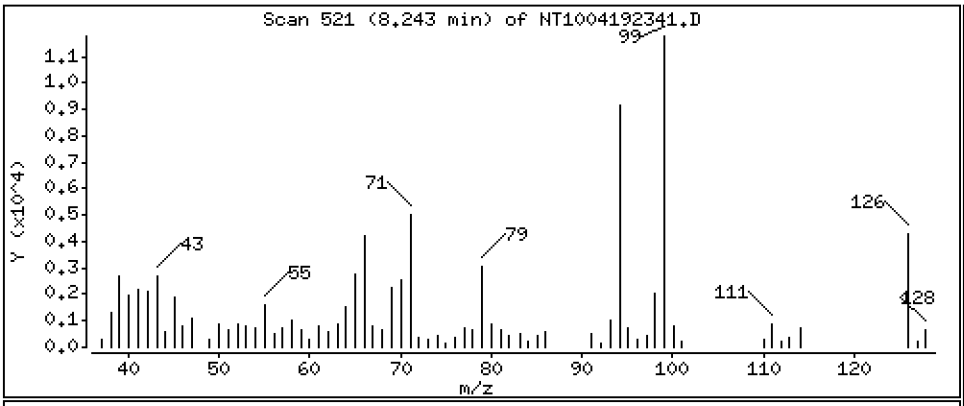
Operator: VTS

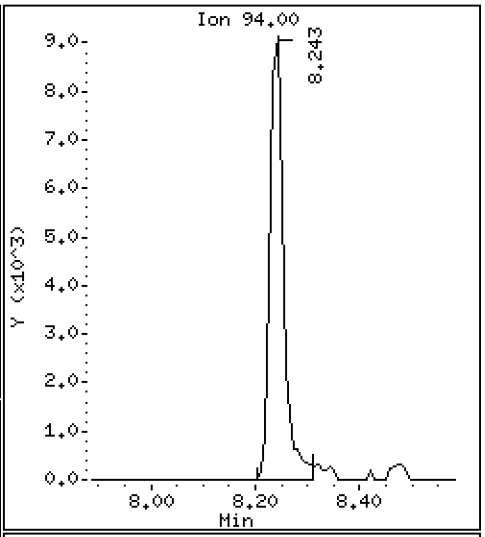
Column phase: ZB-5msi

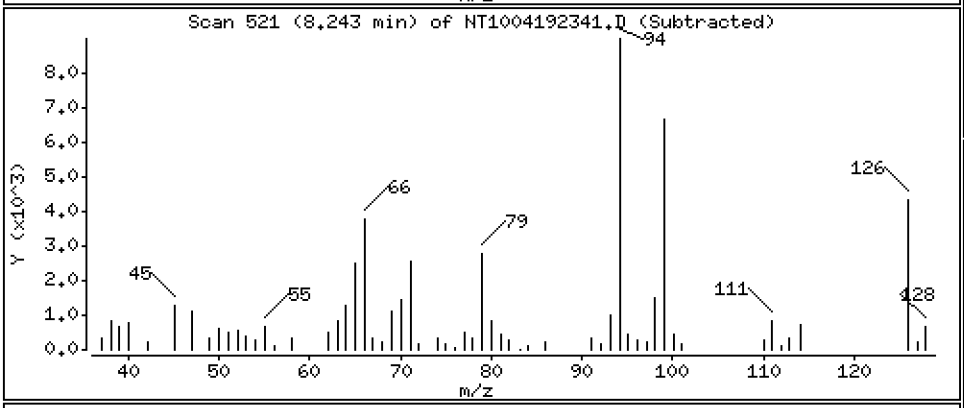
Column diameter: 0.25

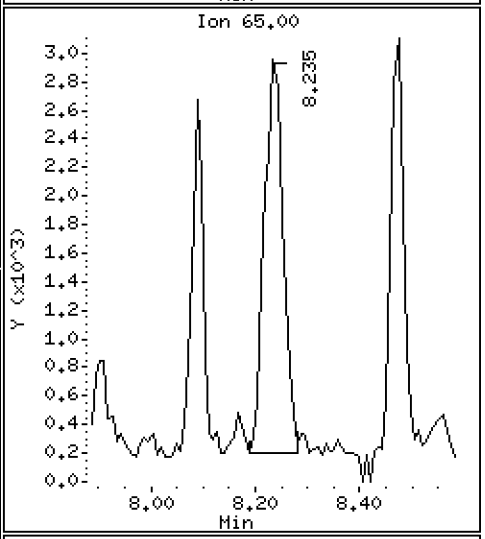
3 Phenol

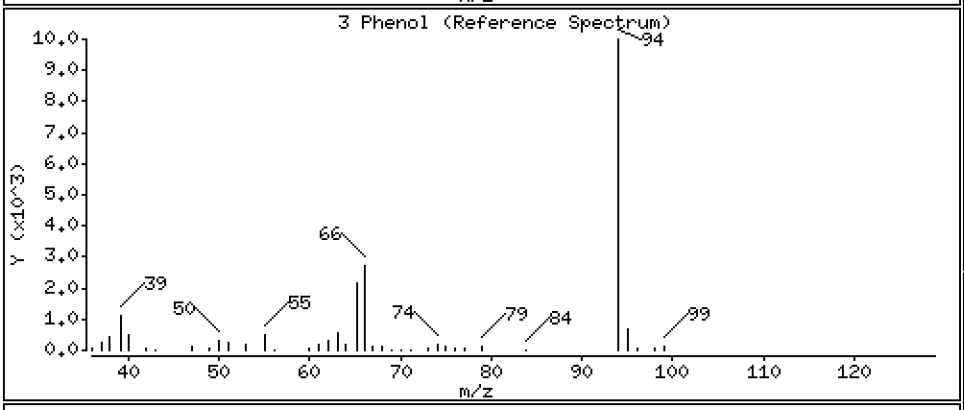
Concentration: 0.2821 ug/mL

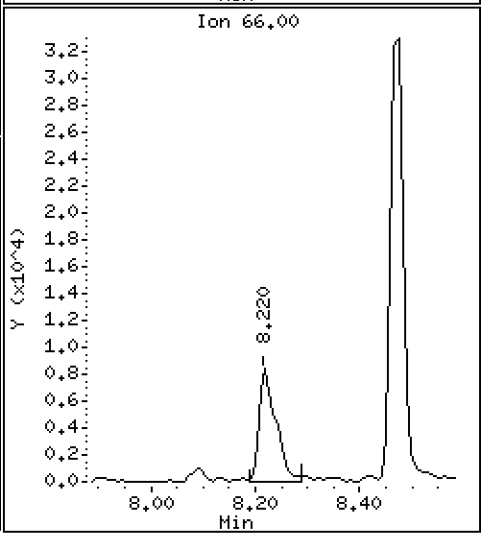


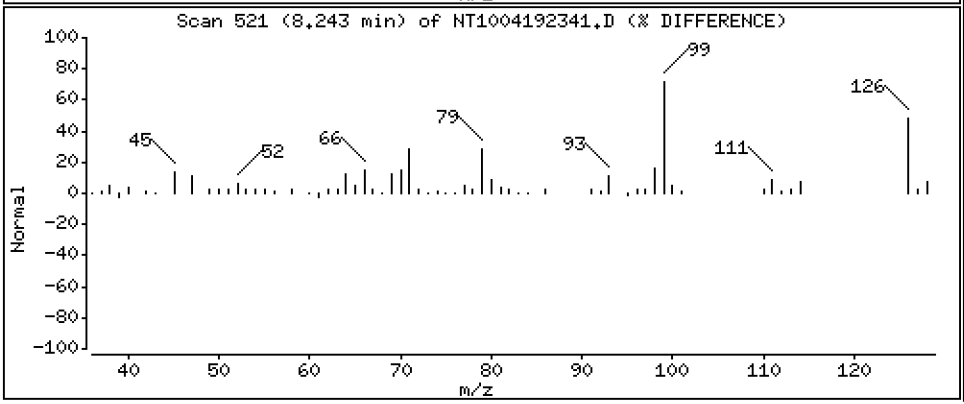












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192341.D

Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

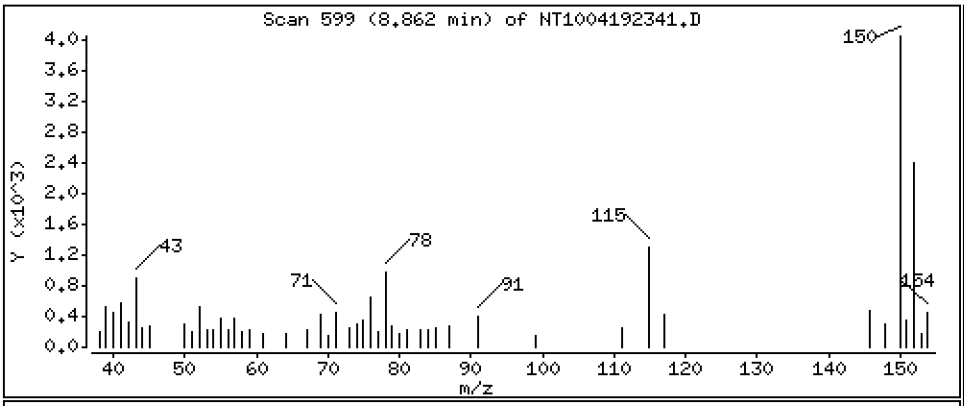
Operator: VTS

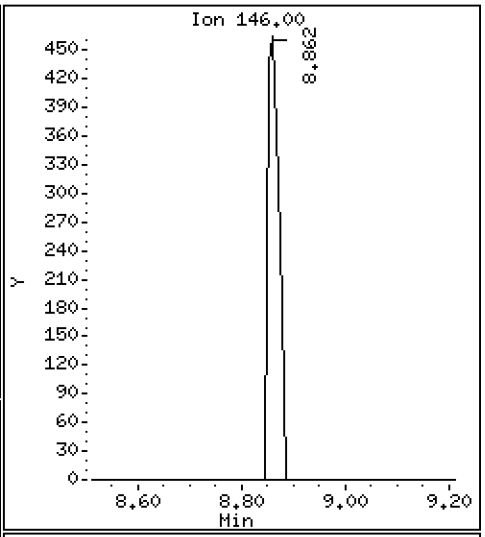
Column phase: ZB-5msi

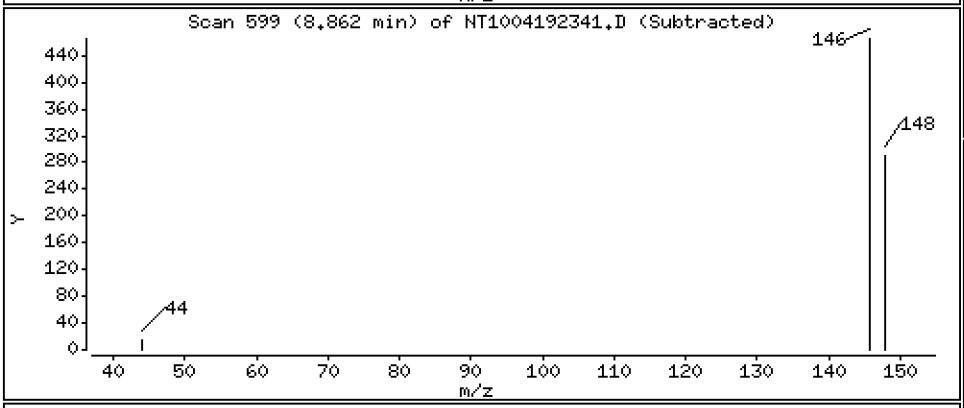
Column diameter: 0.25

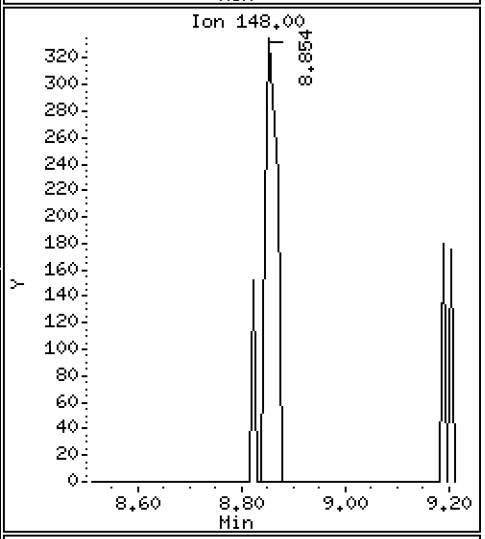
9 1,4-Dichlorobenzene

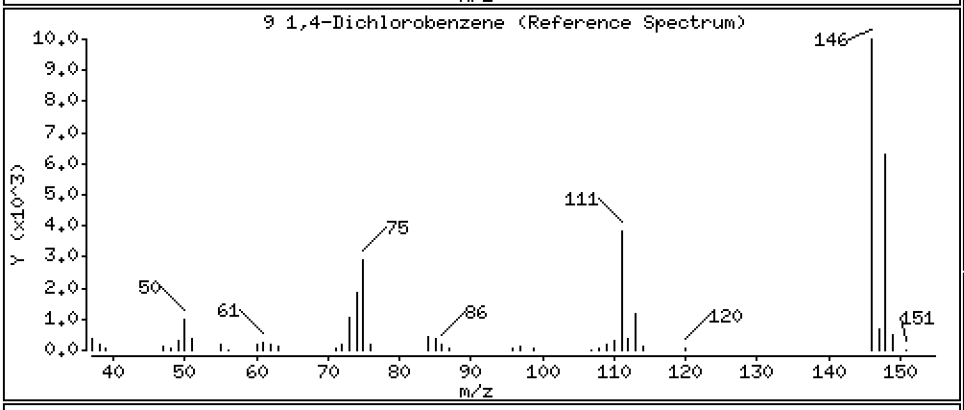
Concentration: 0.01309 ug/mL

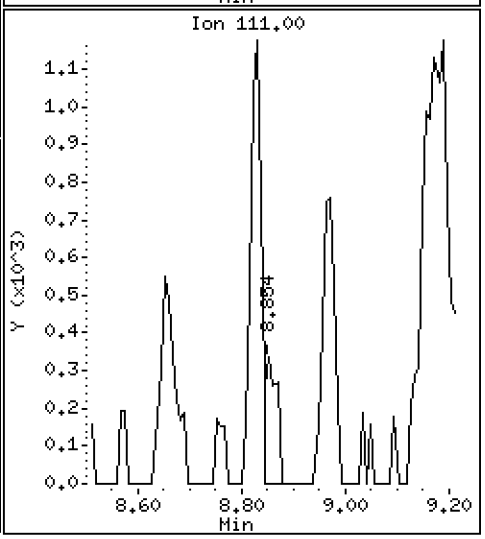


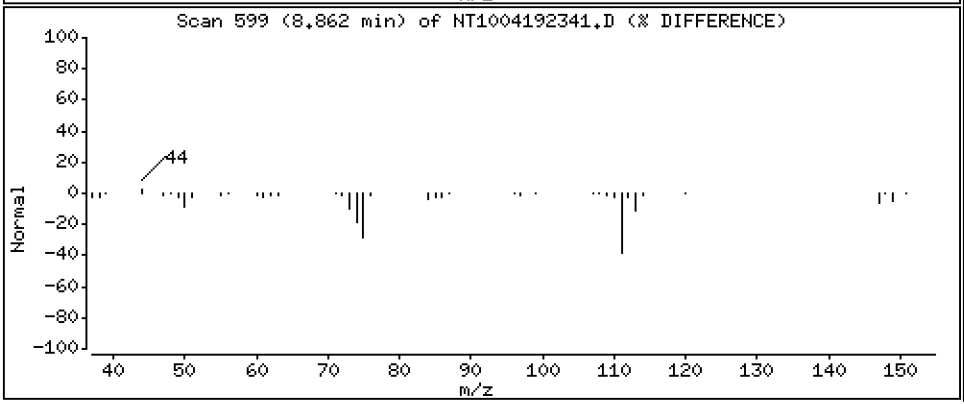












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

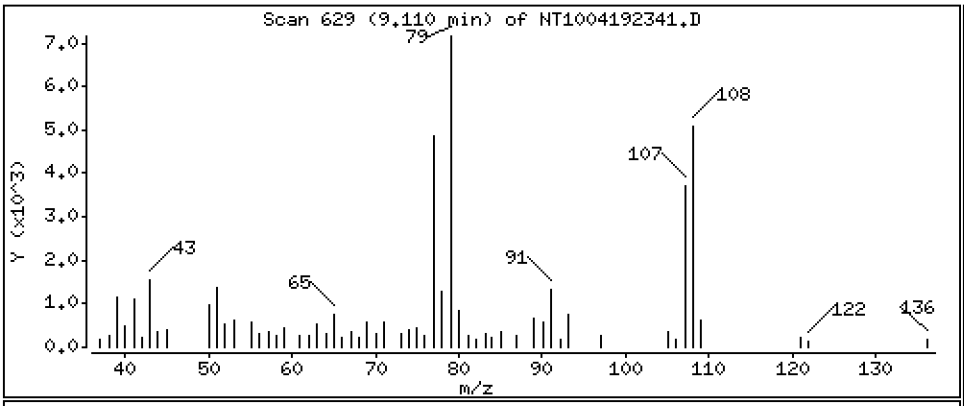
Operator: VTS

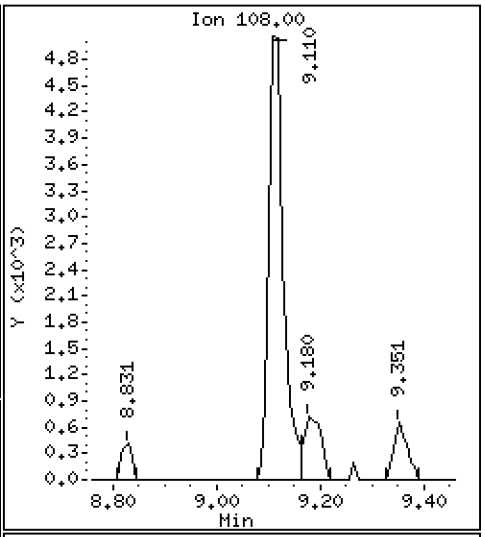
Column phase: ZB-5msi

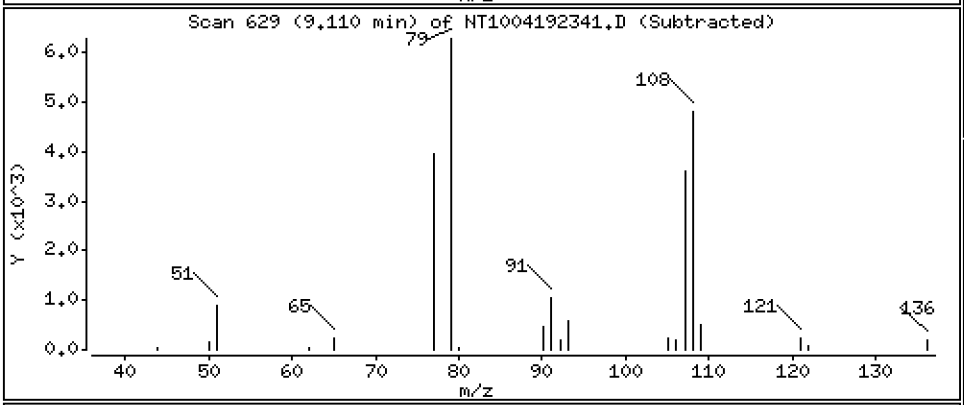
Column diameter: 0.25

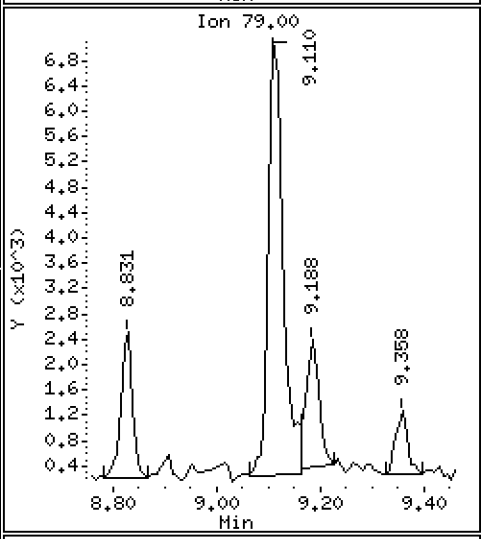
11 Benzyl alcohol

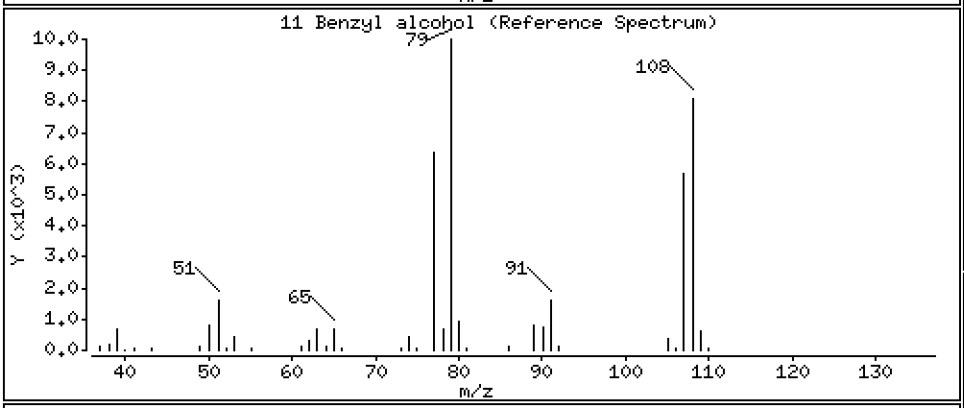
Concentration: 0.3588 ug/mL

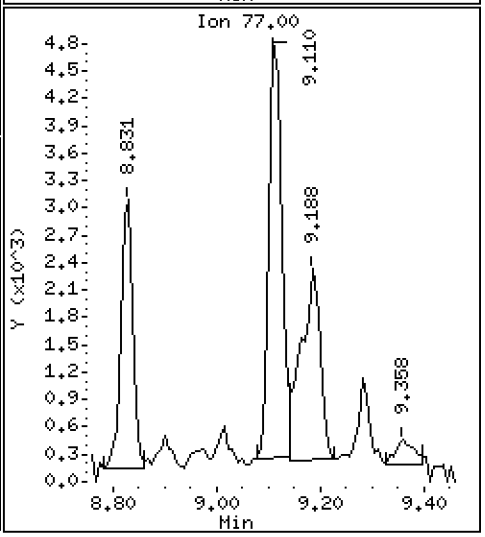


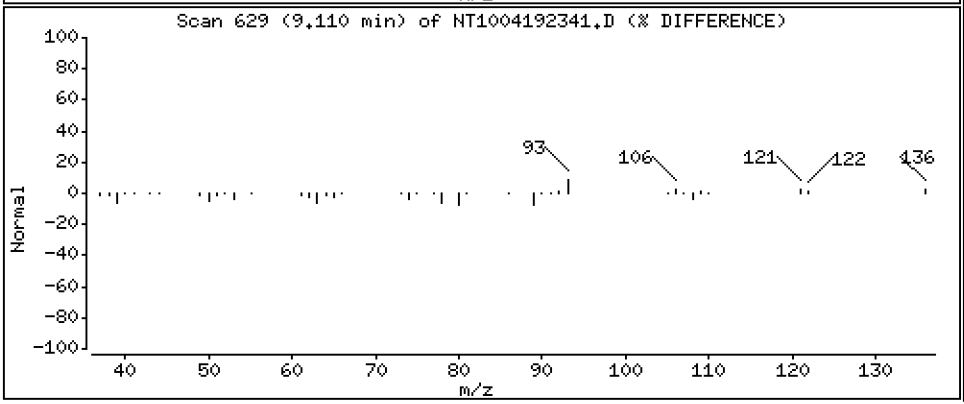












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

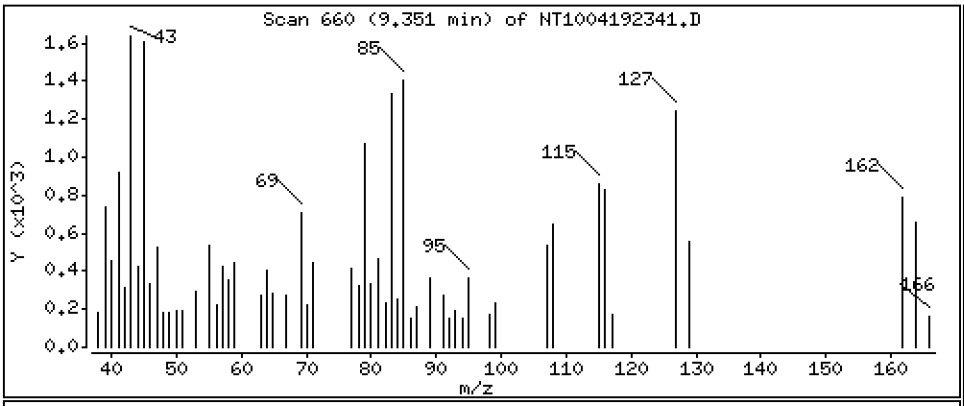
Operator: VTS

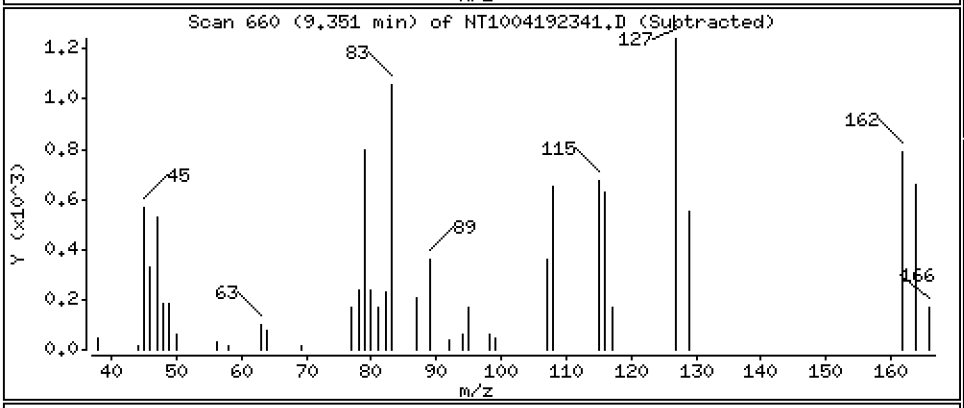
Column phase: ZB-5msi

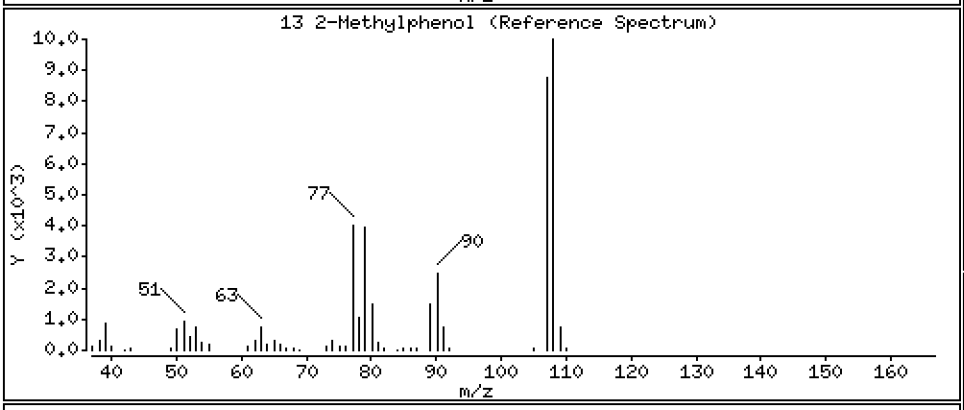
Column diameter: 0.25

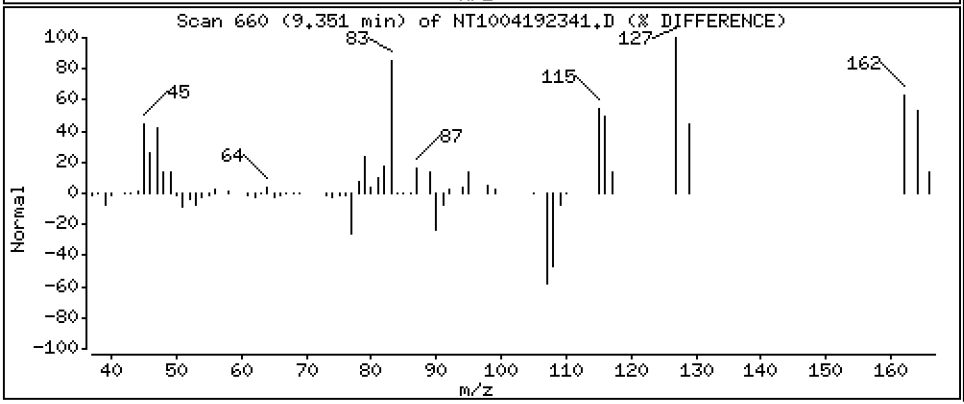
13 2-Methylphenol

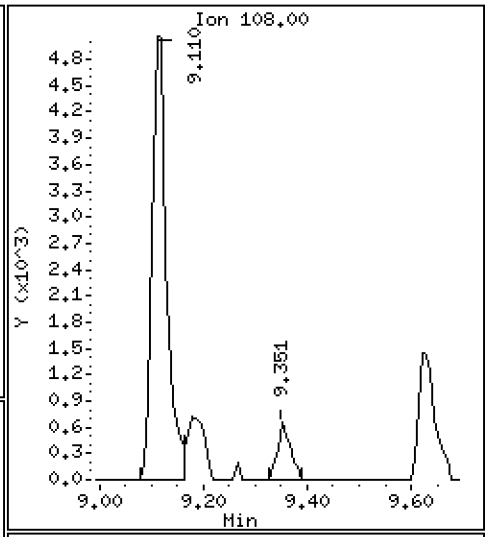
Concentration: 0.02712 ug/mL

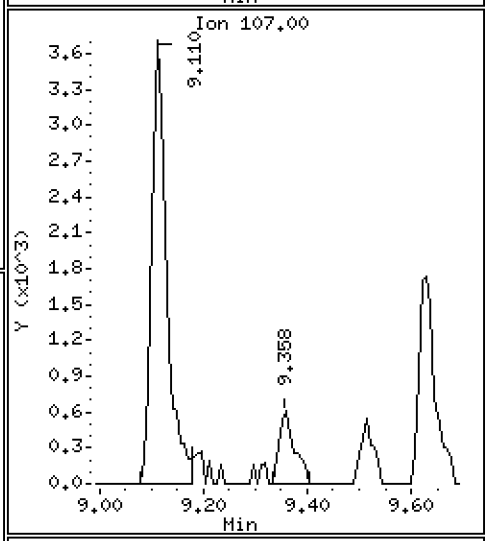


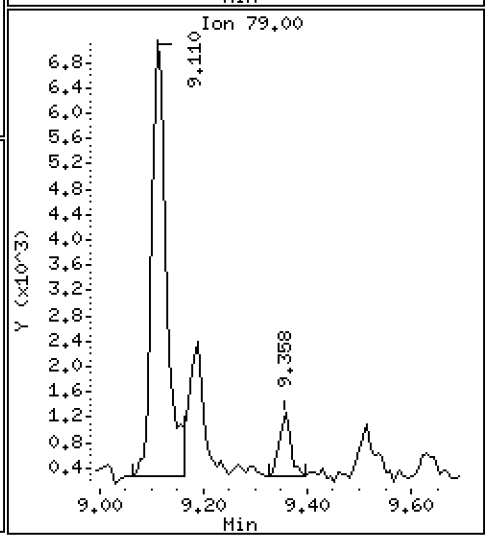












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

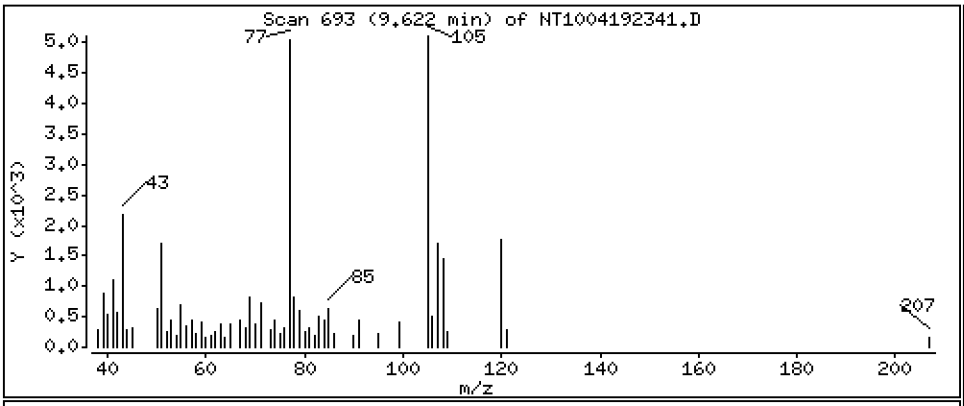
Operator: VTS

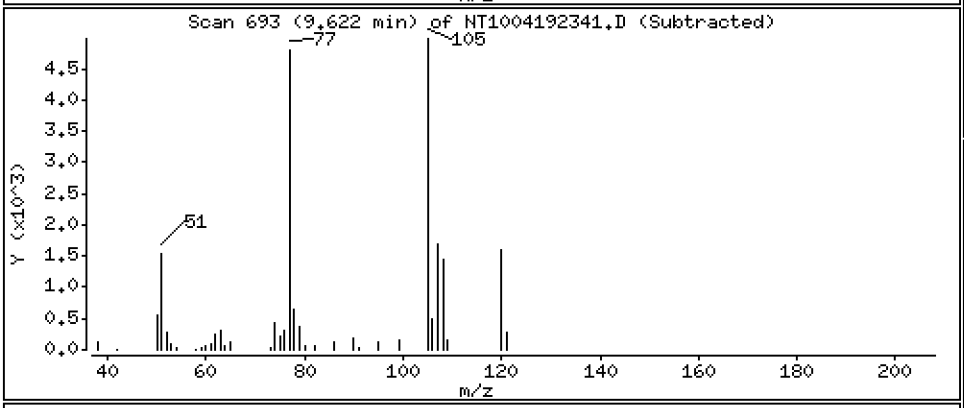
Column phase: ZB-5msi

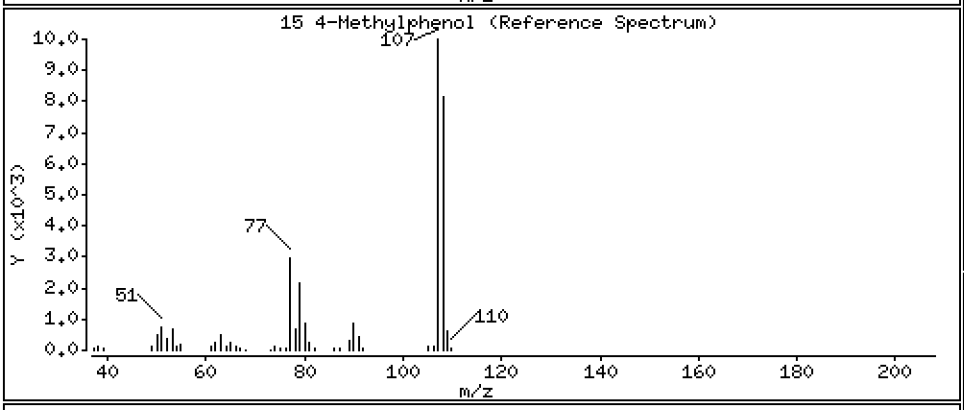
Column diameter: 0.25

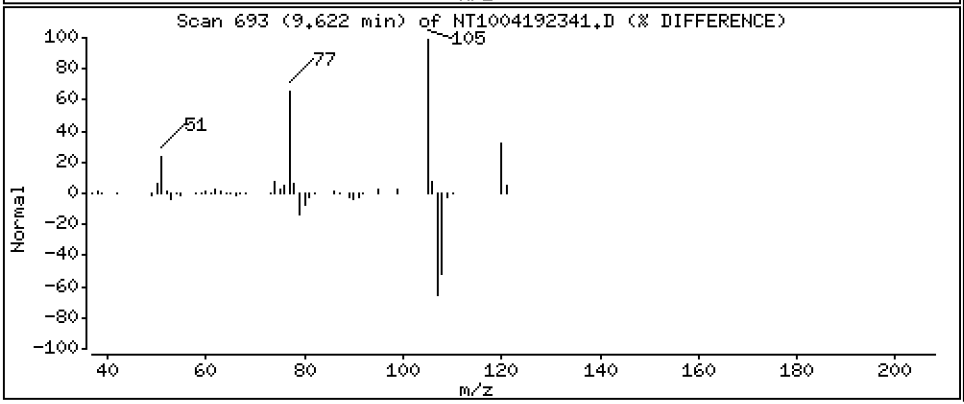
15 4-Methylphenol

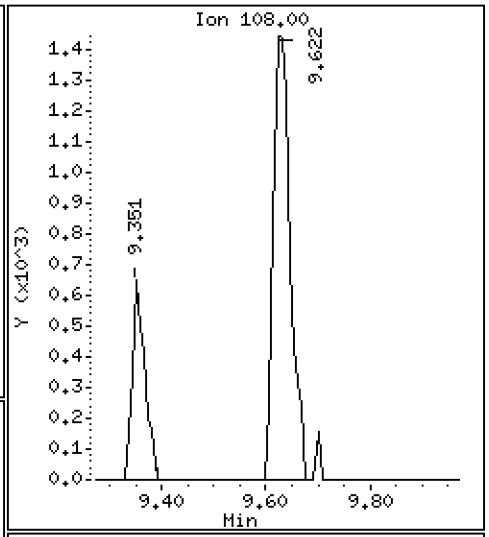
Concentration: 0.07370 ug/mL

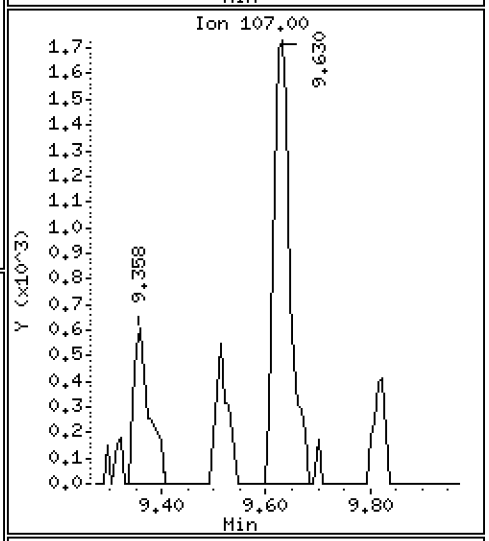


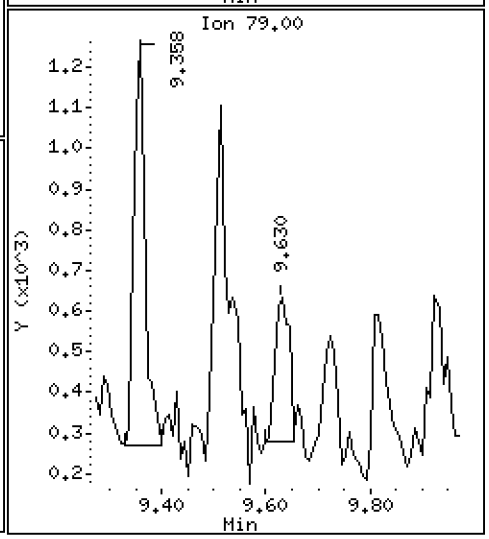












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

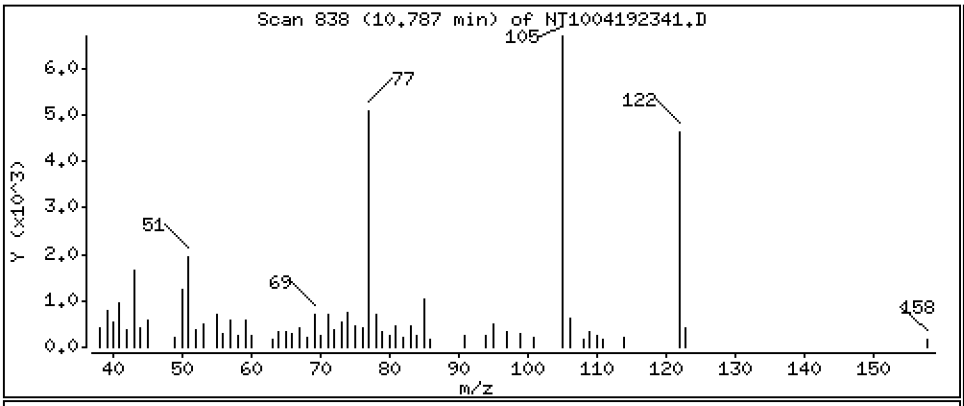
Operator: VTS

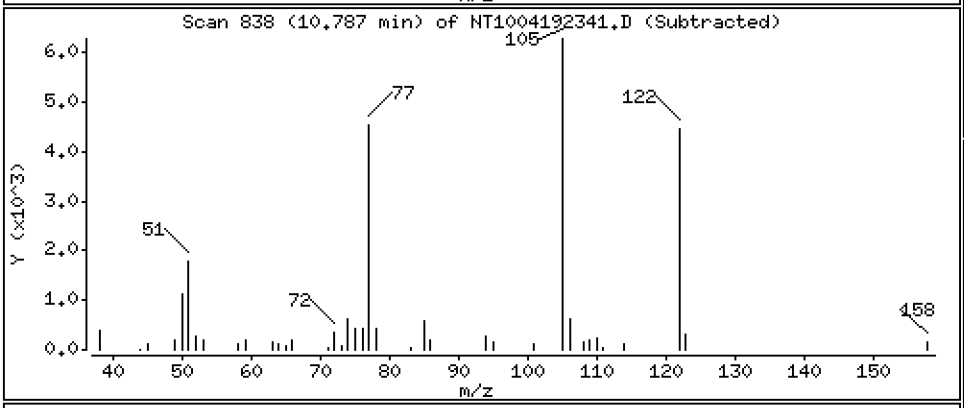
Column phase: ZB-5msi

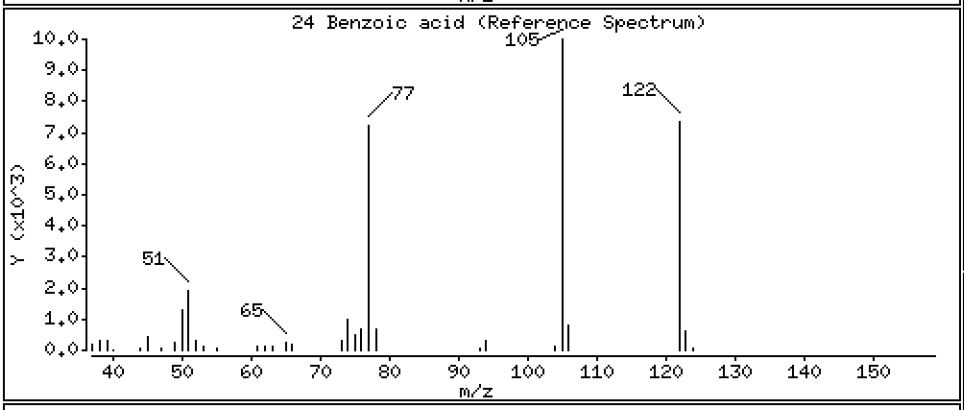
Column diameter: 0.25

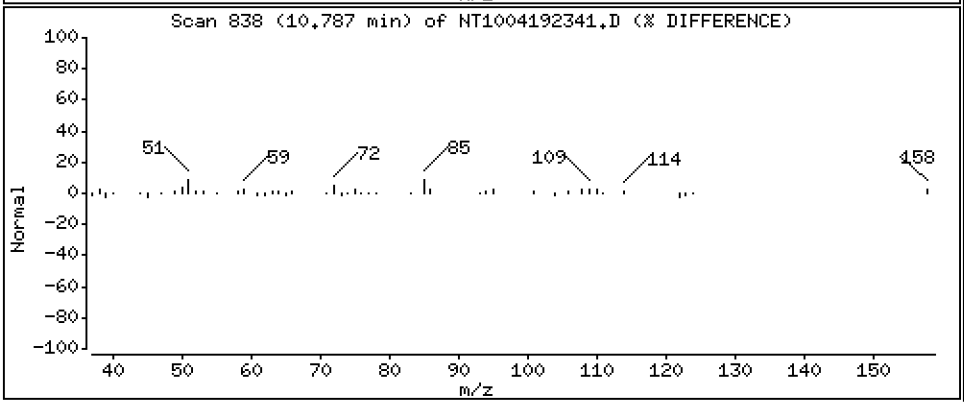
24 Benzoic acid

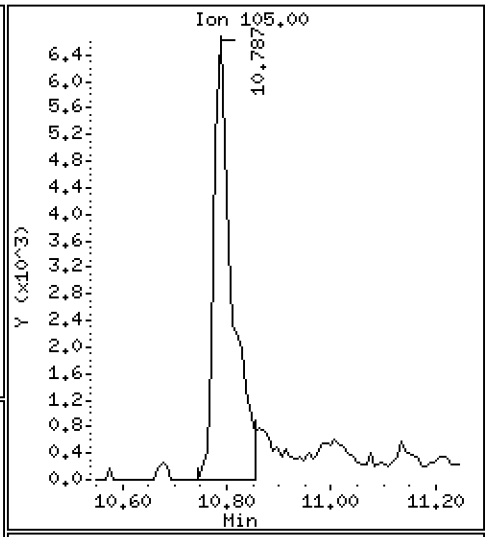
Concentration: 0.6316 ug/mL

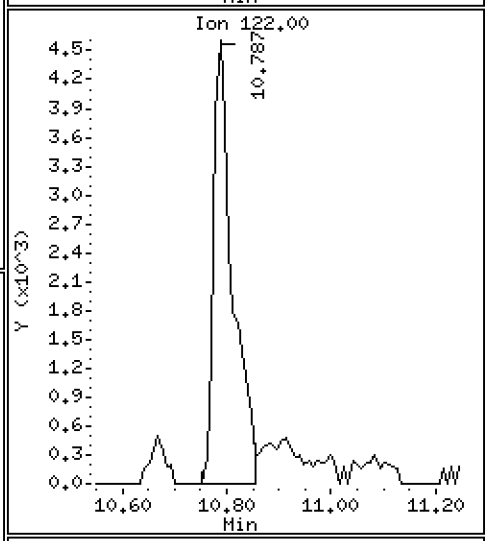


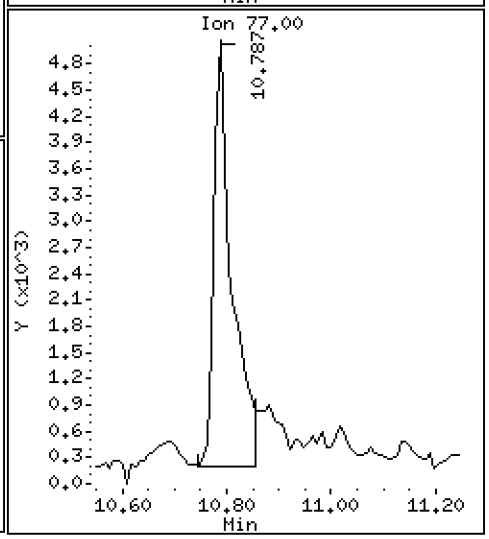












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

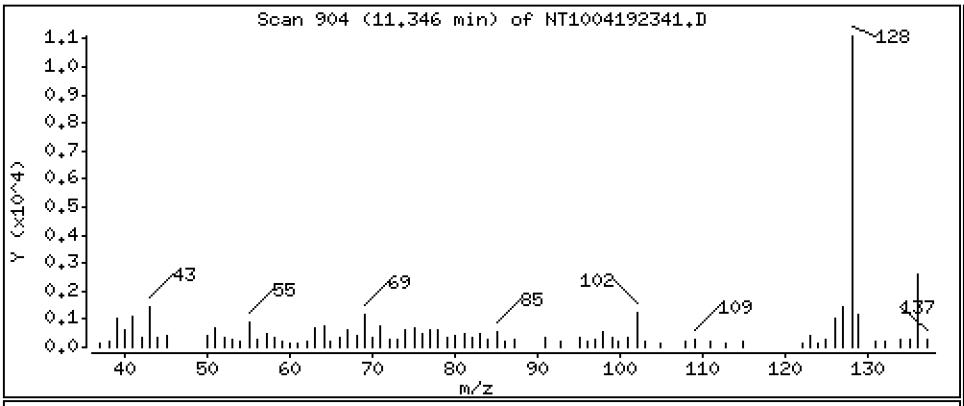
Operator: VTS

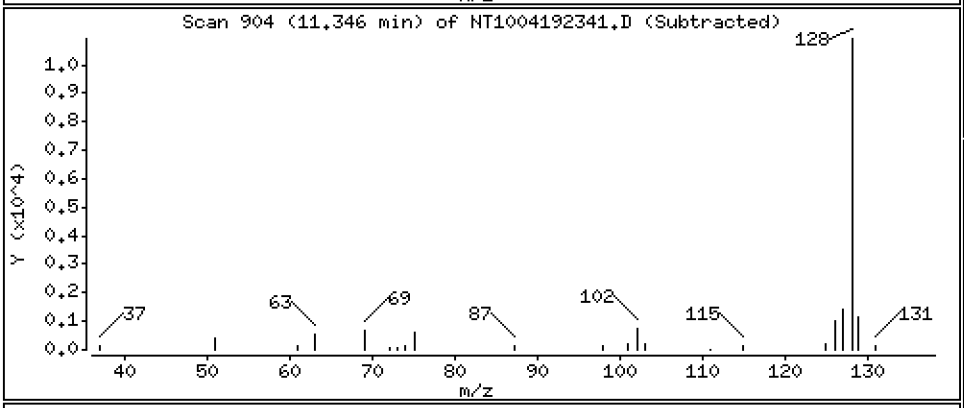
Column phase: ZB-5msi

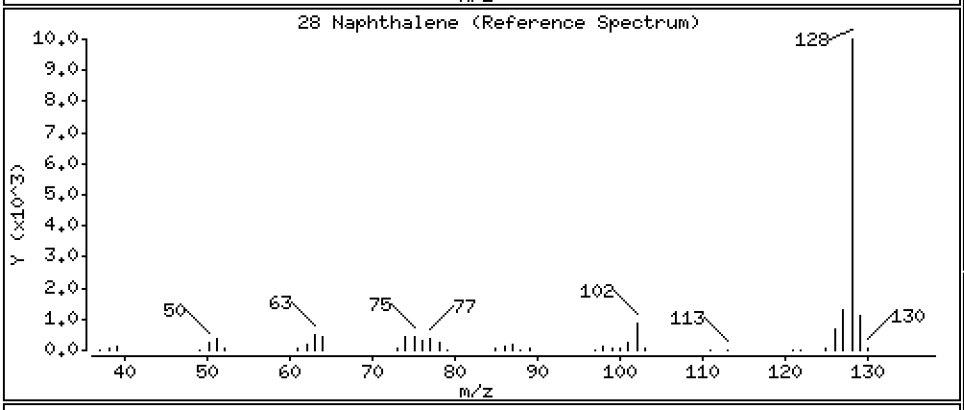
Column diameter: 0.25

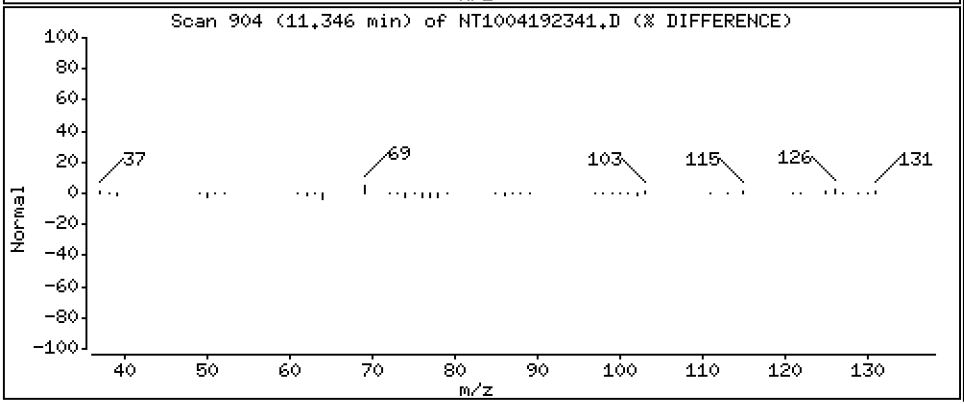
28 Naphthalene

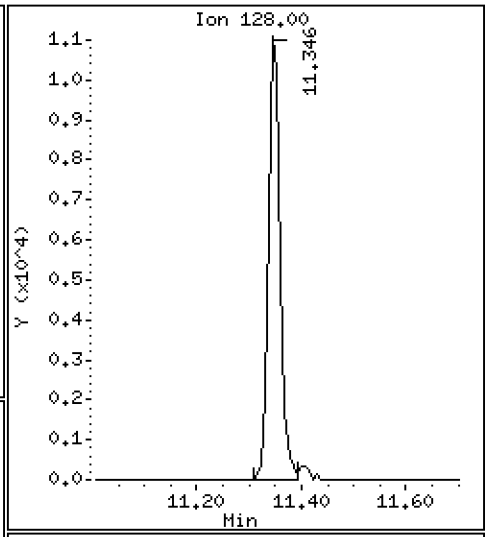
Concentration: 0.1305 ug/mL

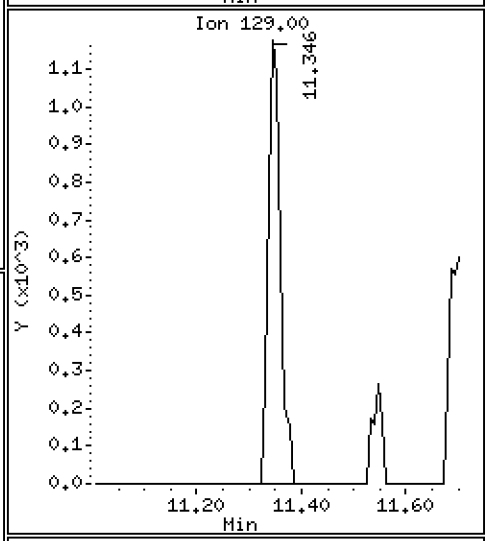


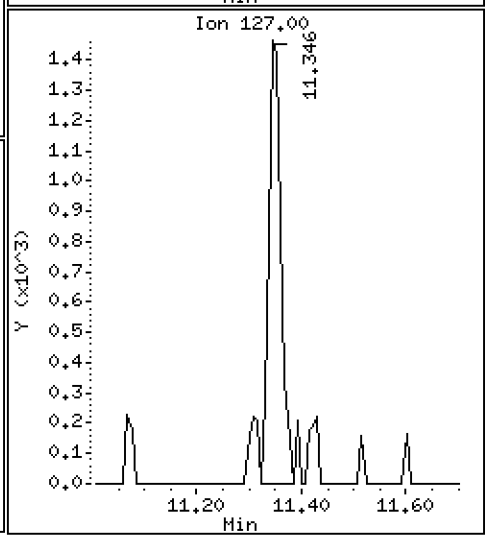












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

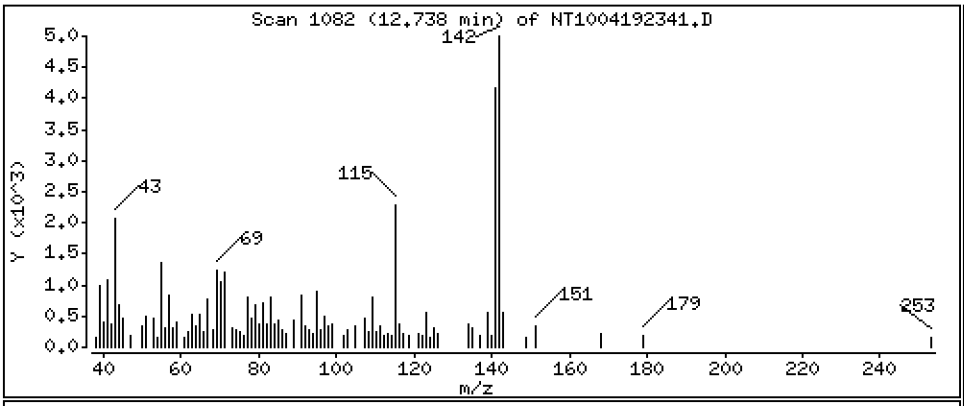
Operator: VTS

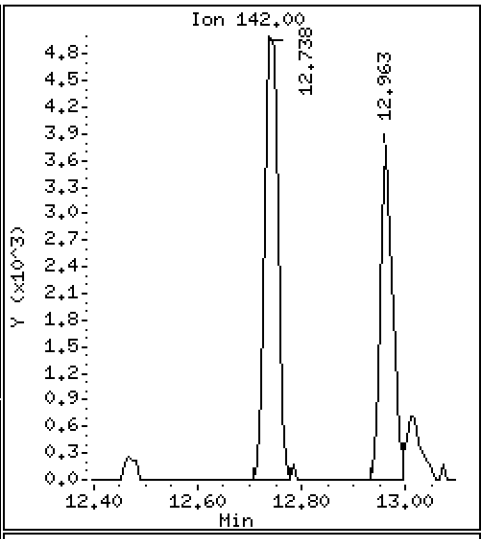
Column phase: ZB-5msi

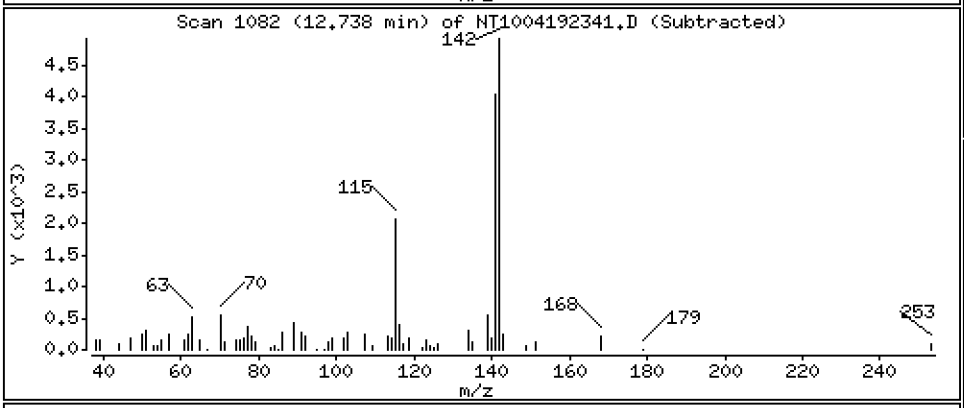
Column diameter: 0.25

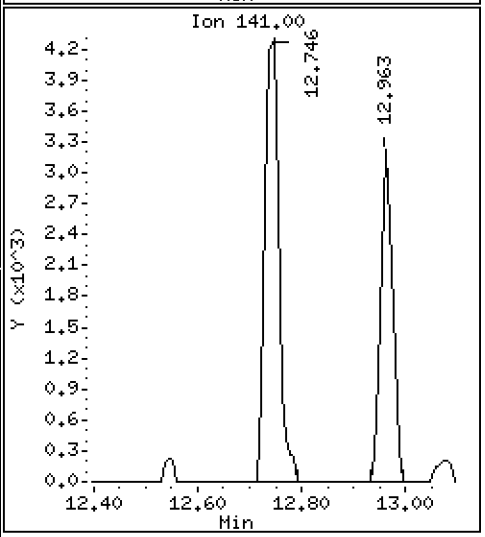
32 2-Methylnaphthalene

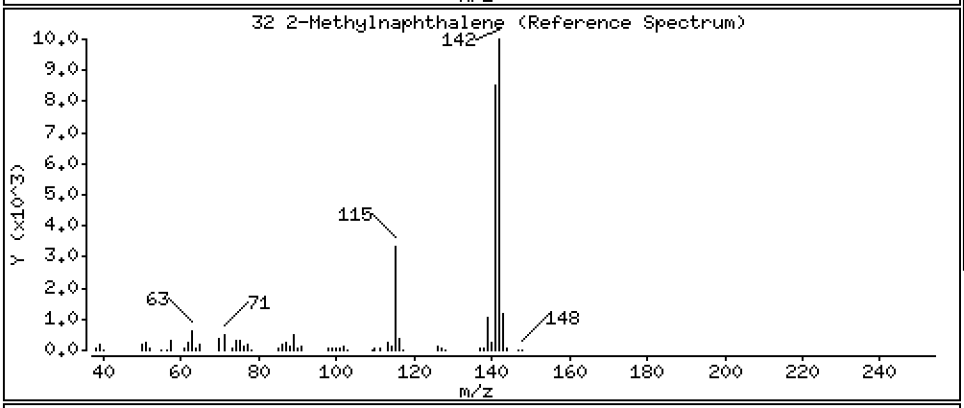
Concentration: 0.08482 ug/mL

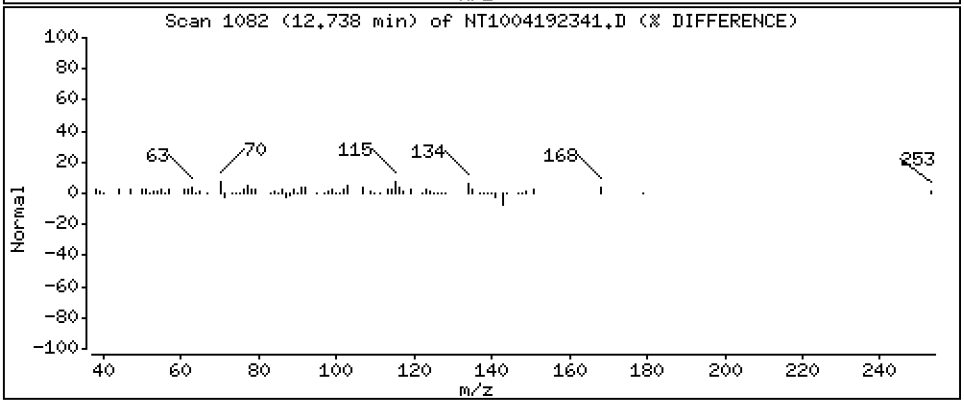












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

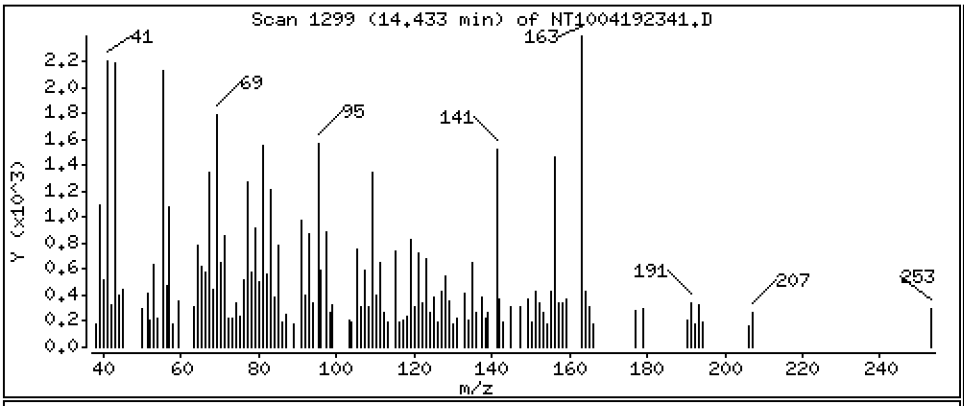
Operator: VTS

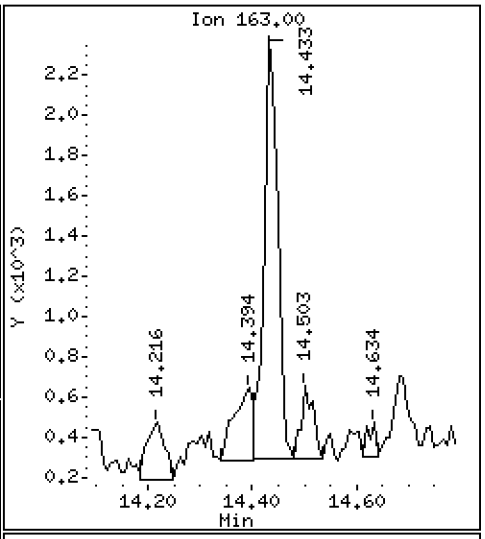
Column phase: ZB-5msi

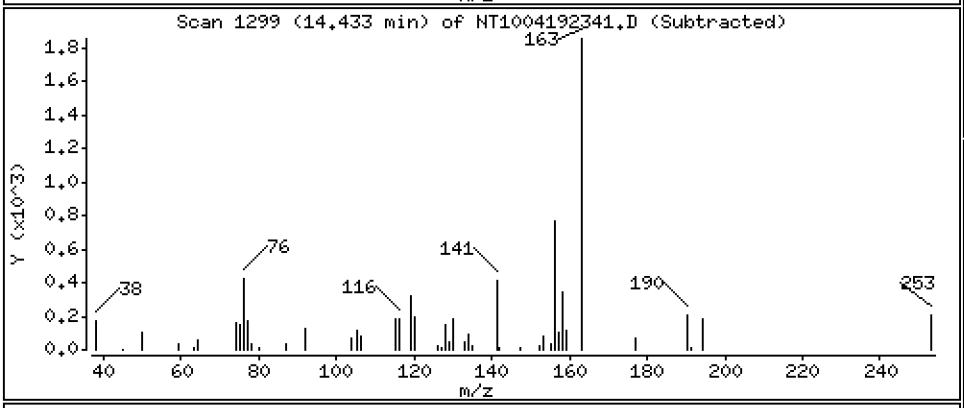
Column diameter: 0.25

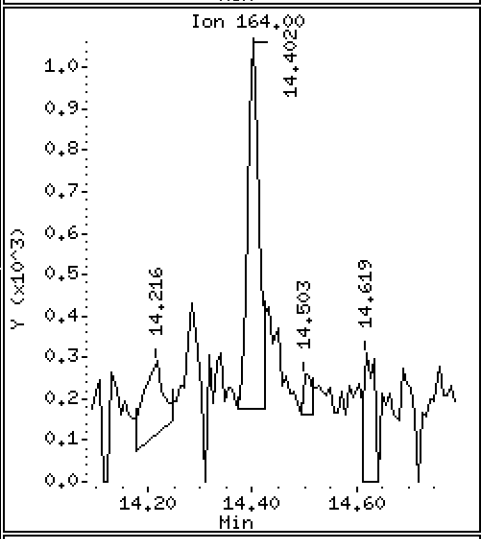
39 Dimethylphthalate

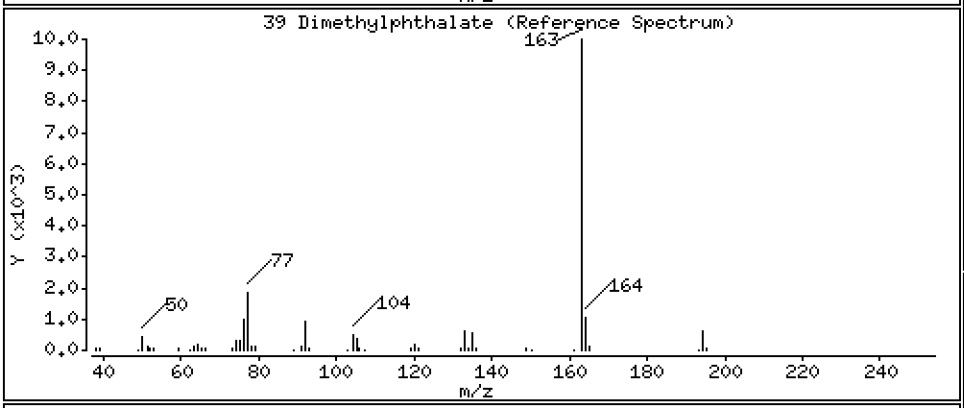
Concentration: 0.03787 ug/mL

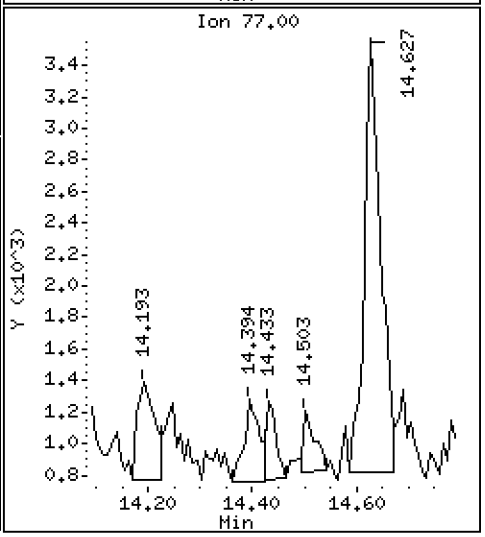


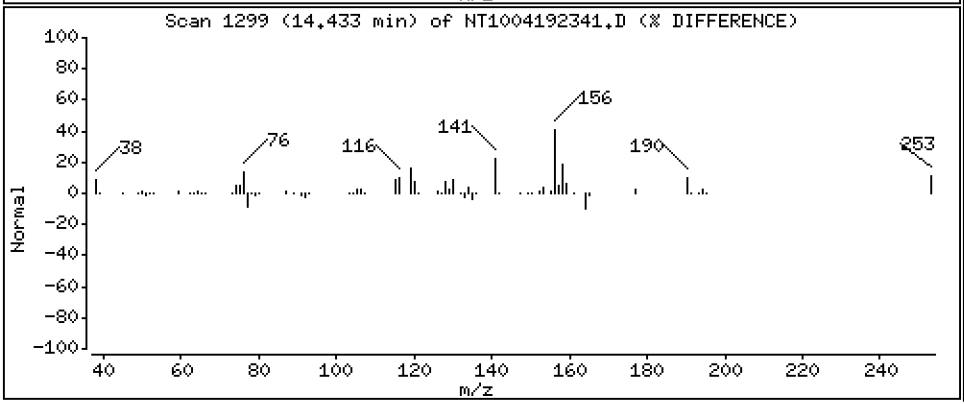












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

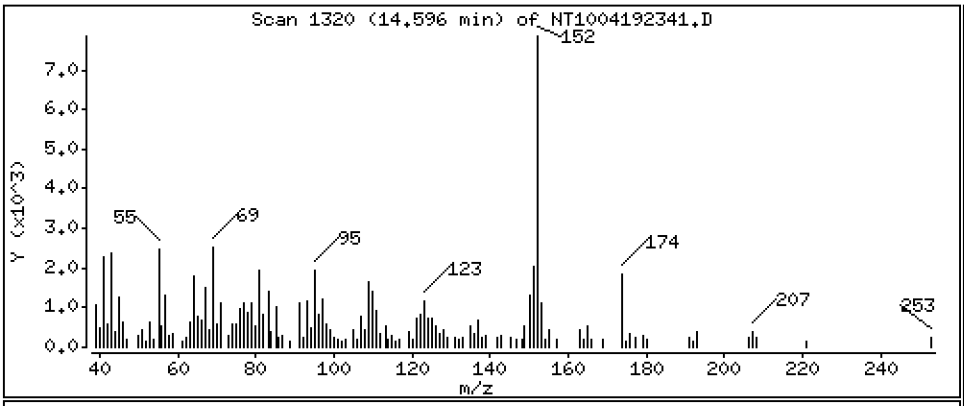
Operator: VTS

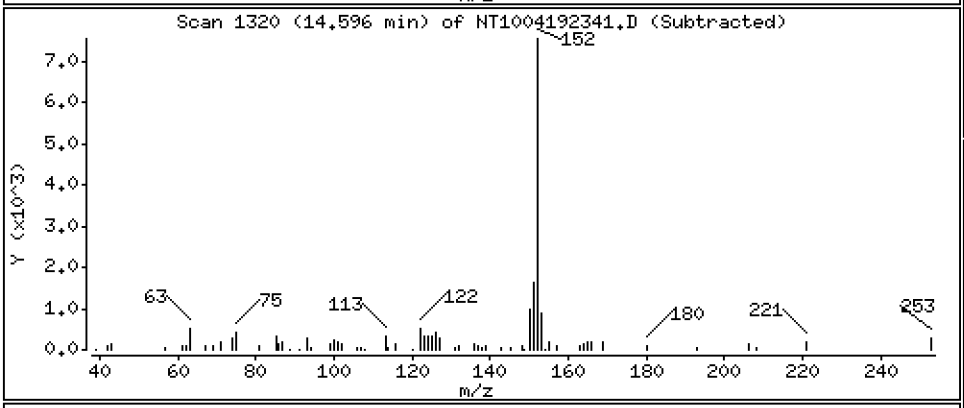
Column phase: ZB-5msi

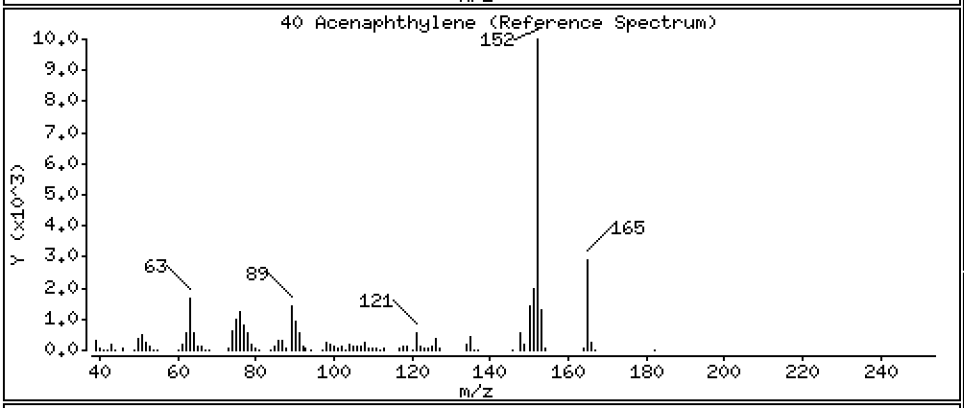
Column diameter: 0.25

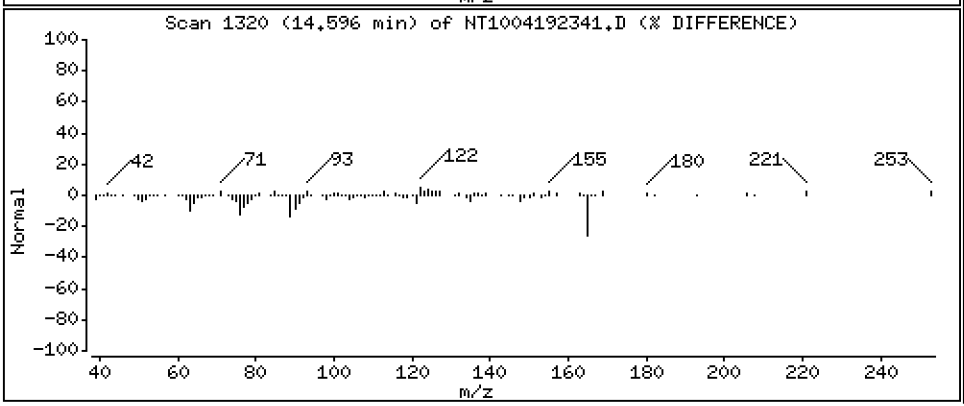
40 Acenaphthylene

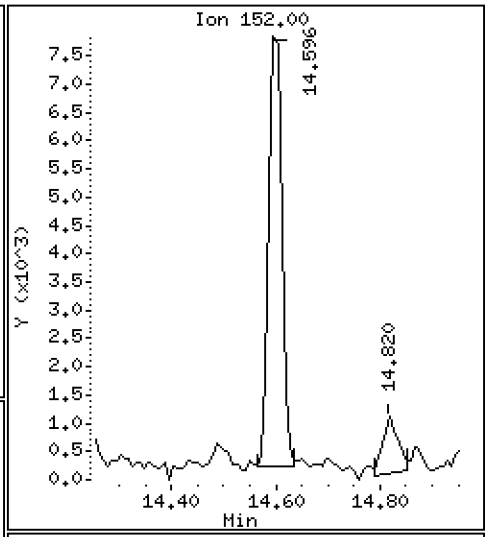
Concentration: 0.08366 ug/mL

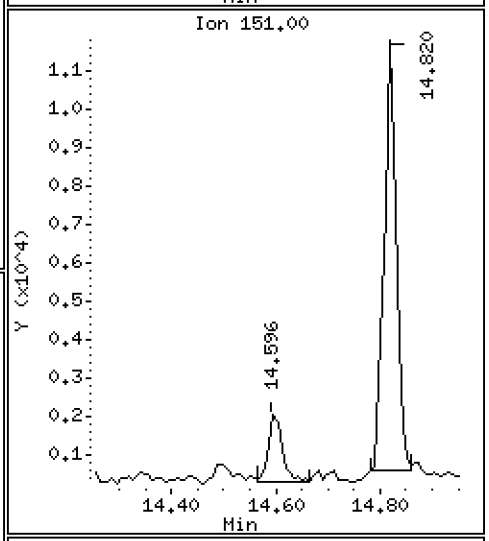


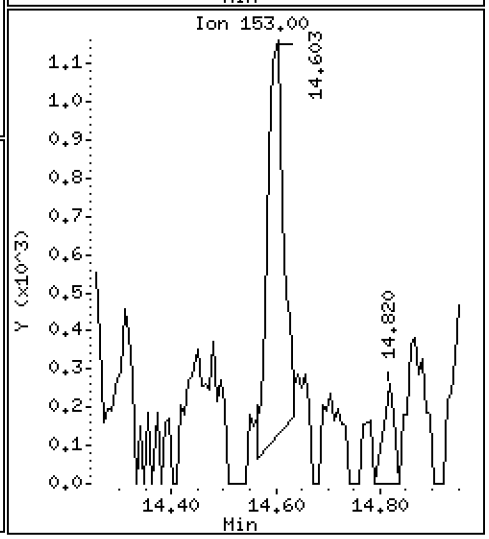












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

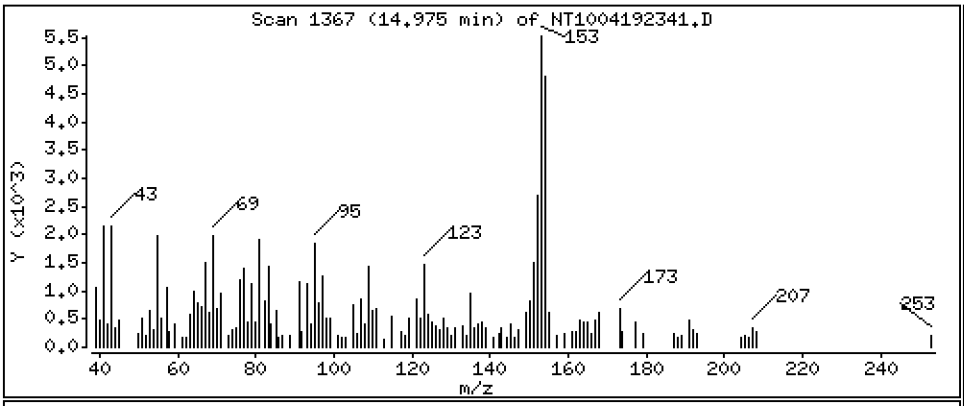
Operator: VTS

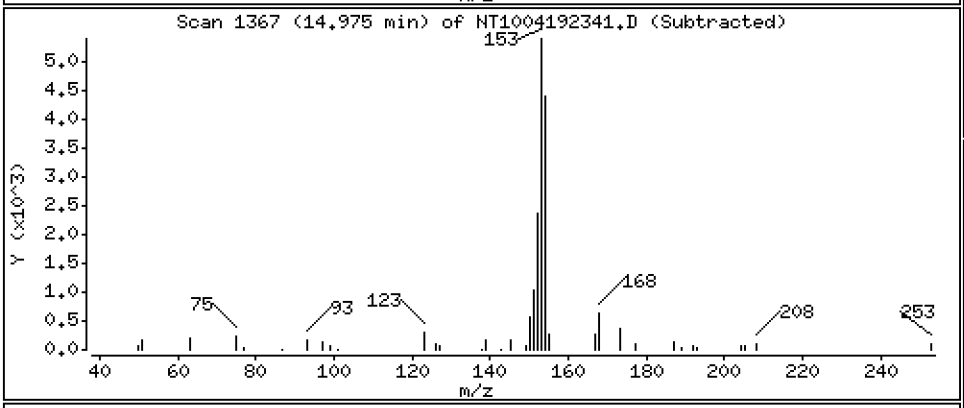
Column phase: ZB-5msi

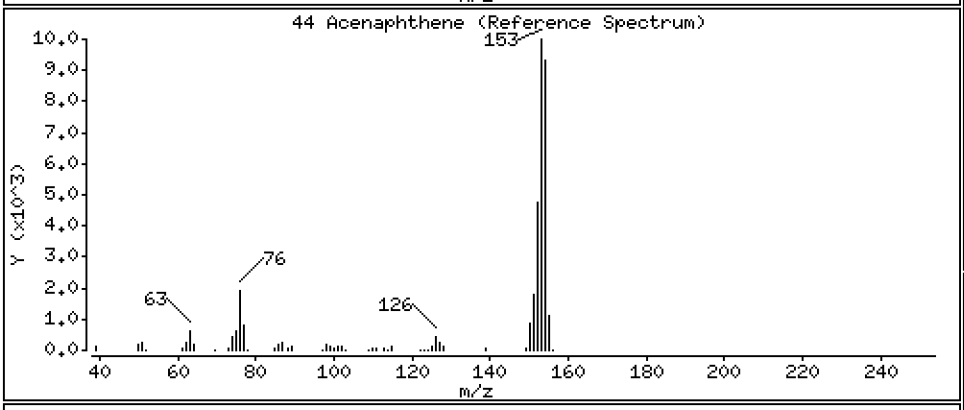
Column diameter: 0.25

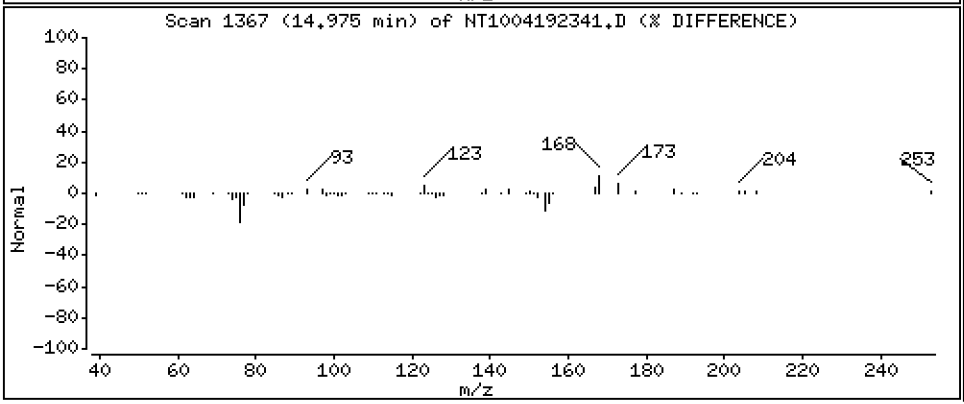
44 Acenaphthene

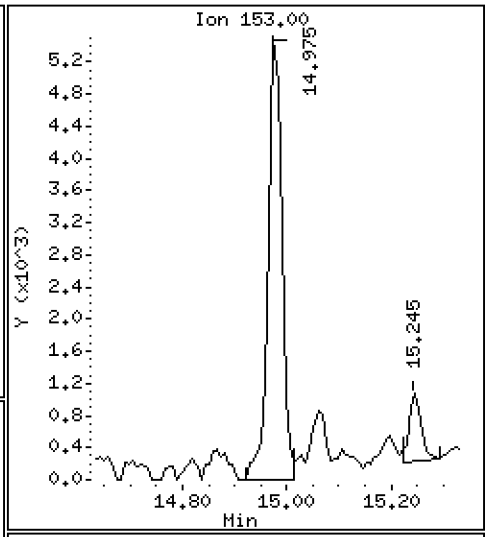
Concentration: 0.1023 ug/mL

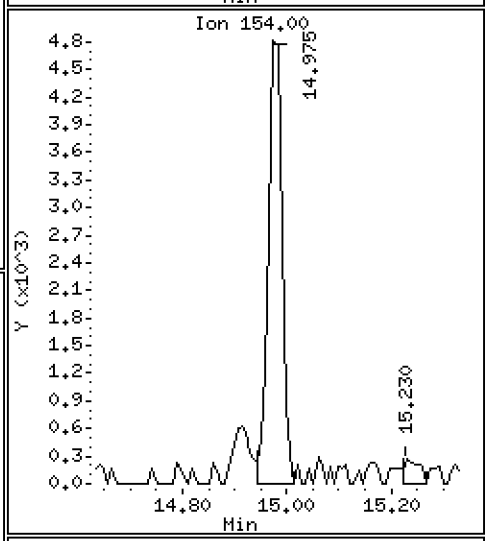


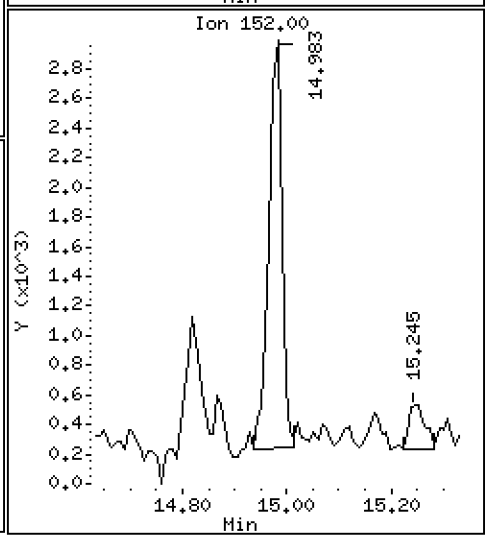












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

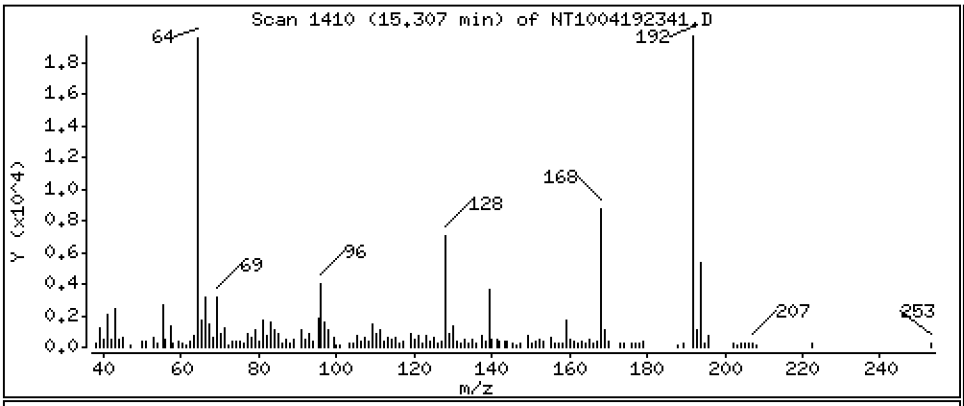
Operator: VTS

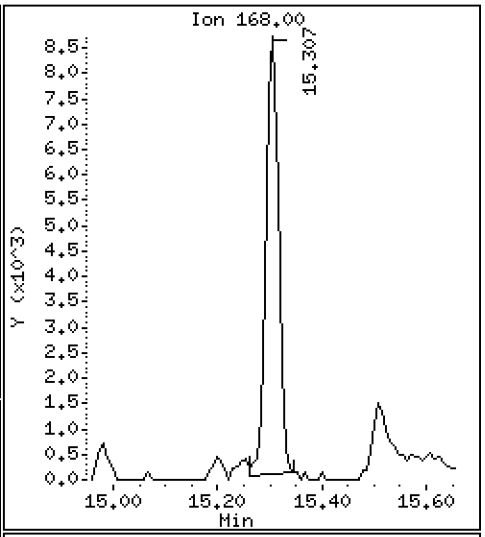
Column phase: ZB-5msi

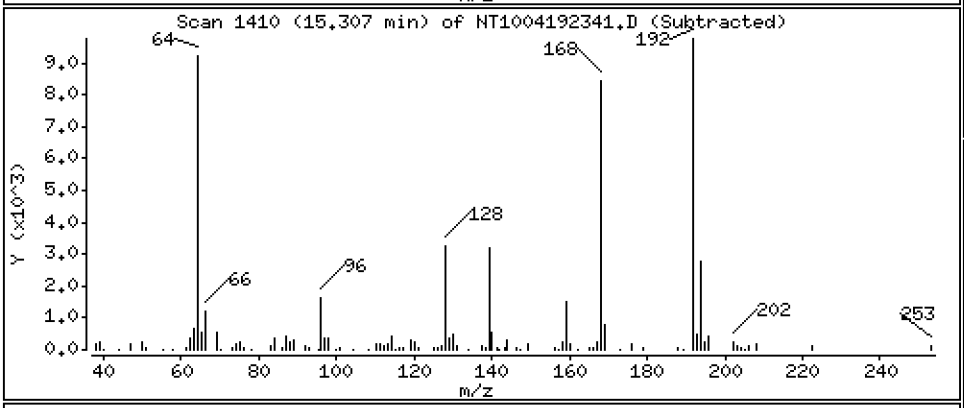
Column diameter: 0.25

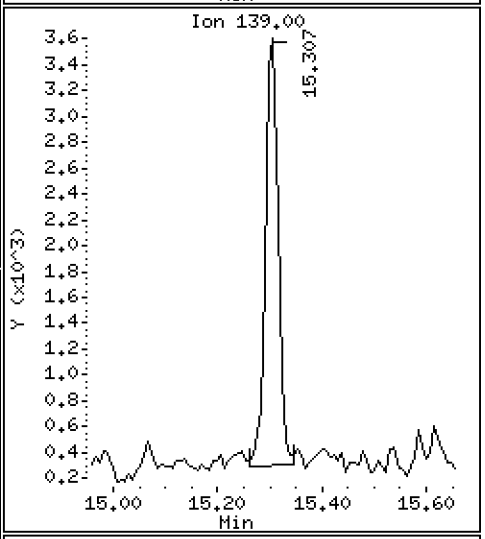
46 Dibenzofuran

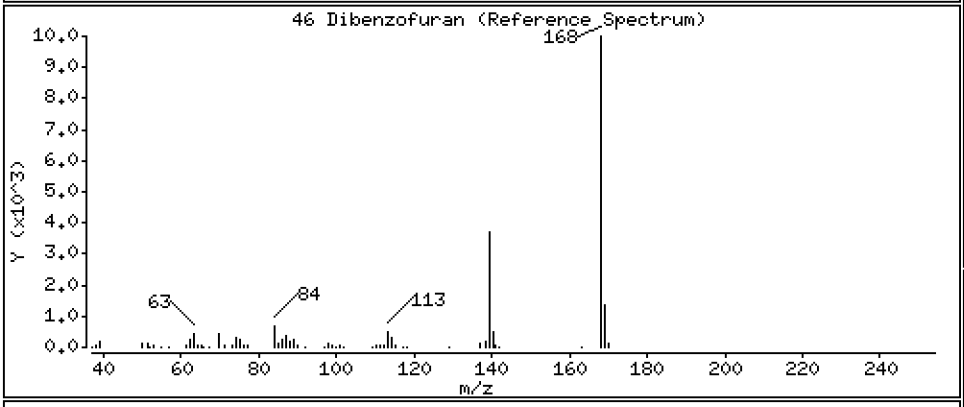
Concentration: 0.09974 ug/mL

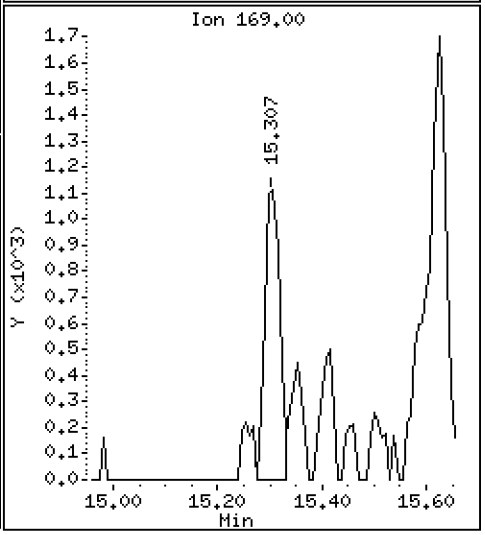


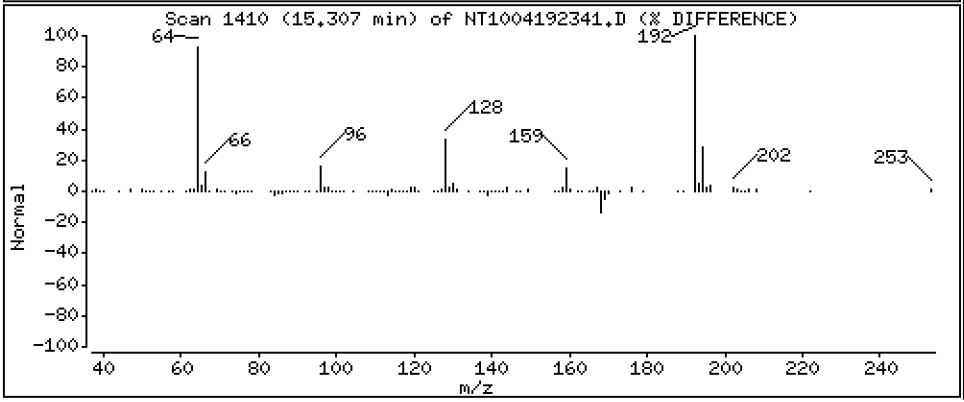












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

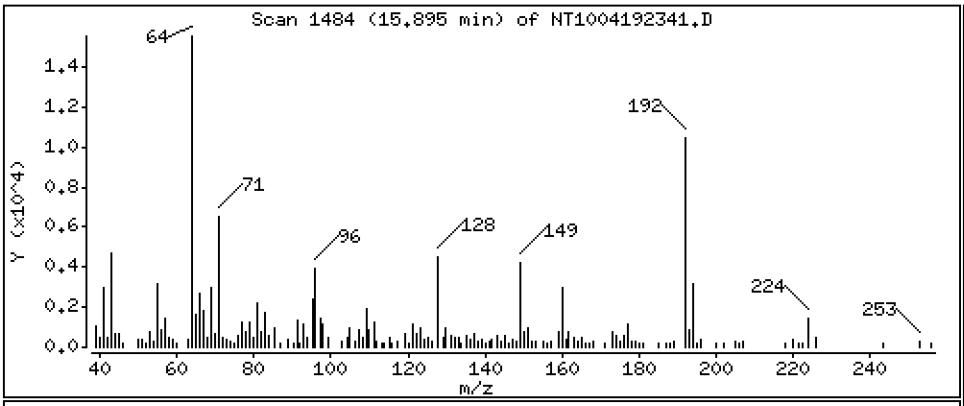
Operator: VTS

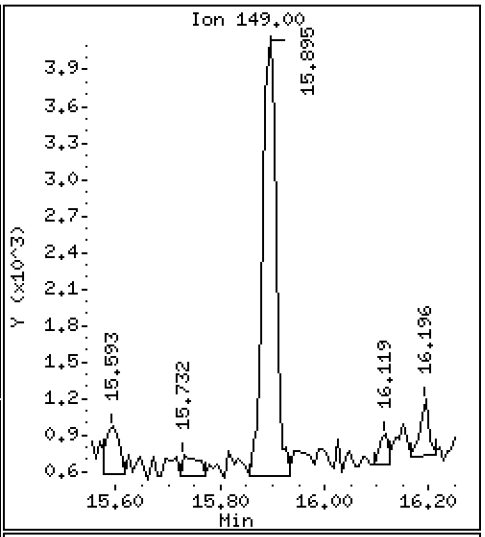
Column phase: ZB-5msi

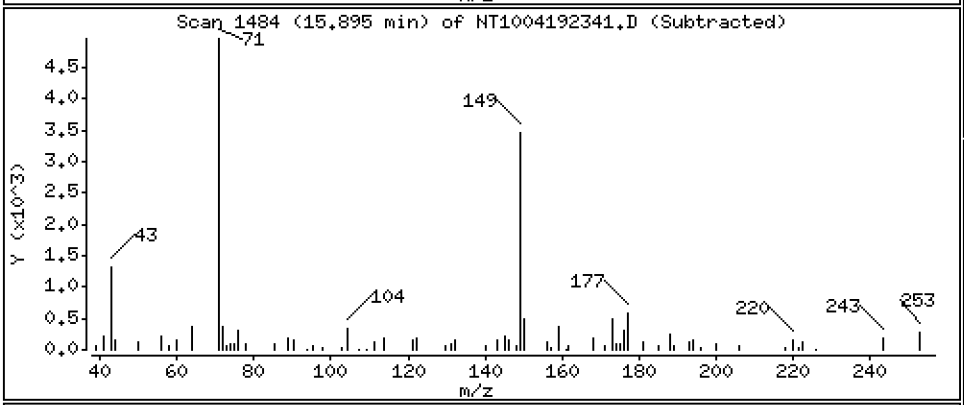
Column diameter: 0.25

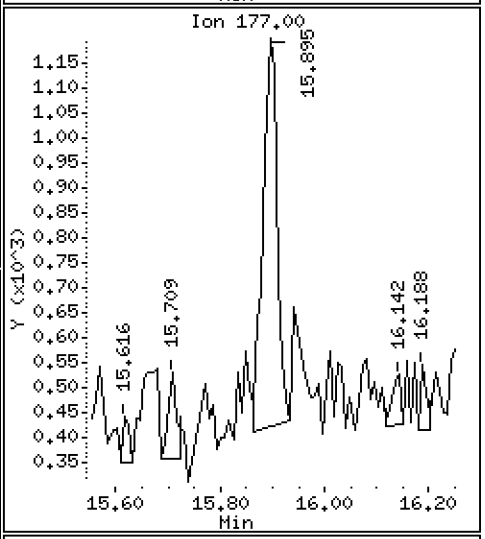
50 Diethylphthalate

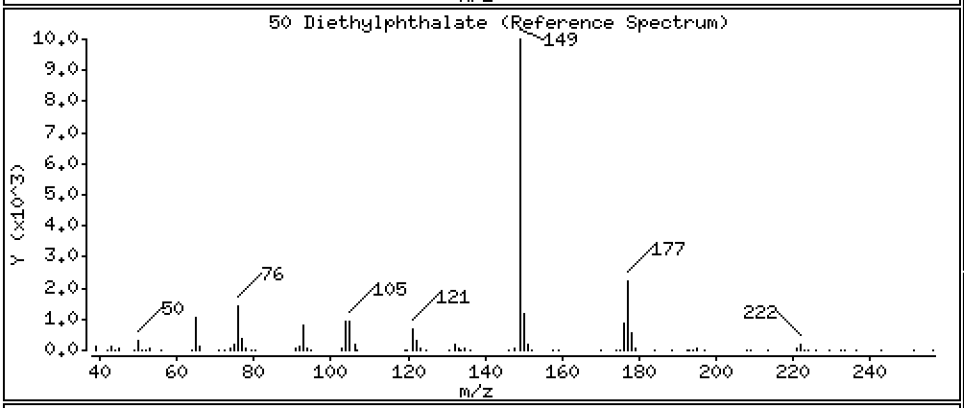
Concentration: 0.06289 ug/mL

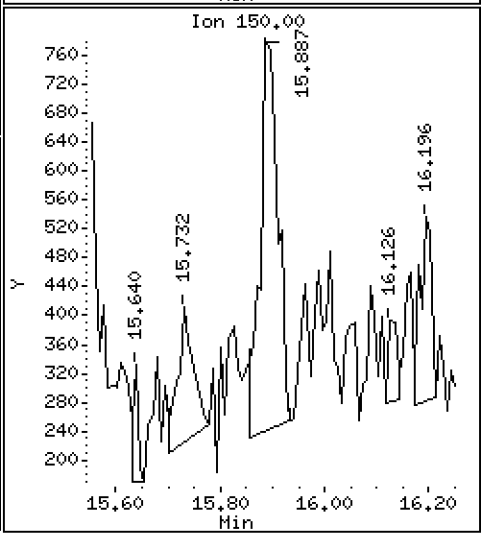


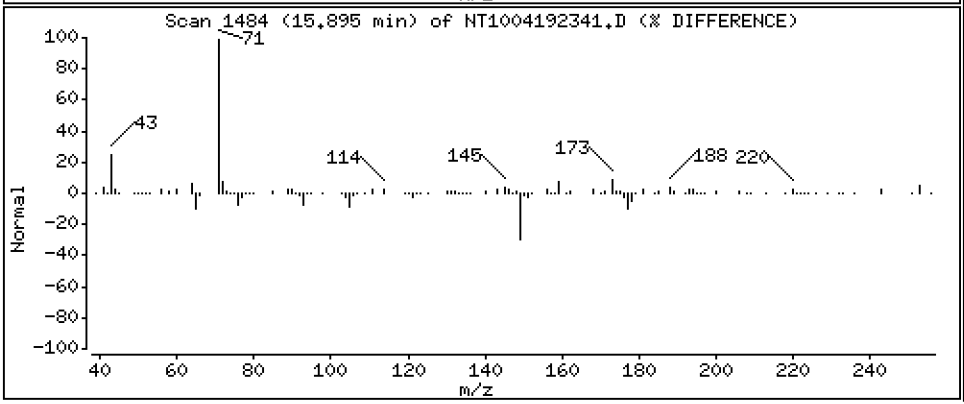












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

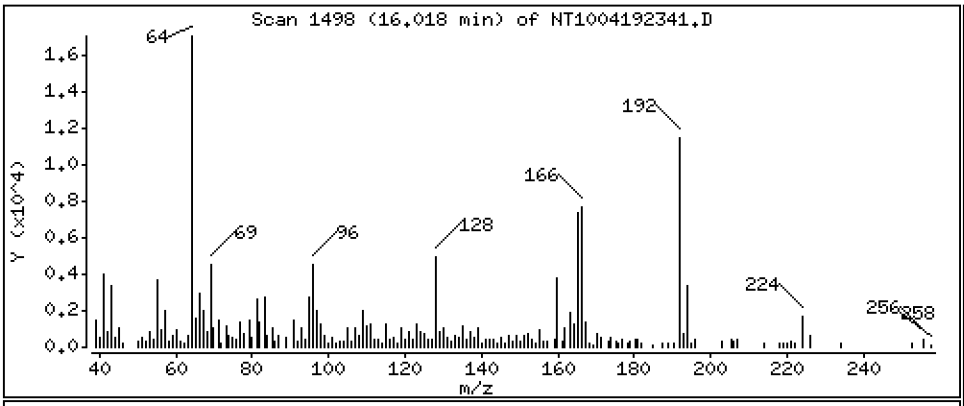
Operator: VTS

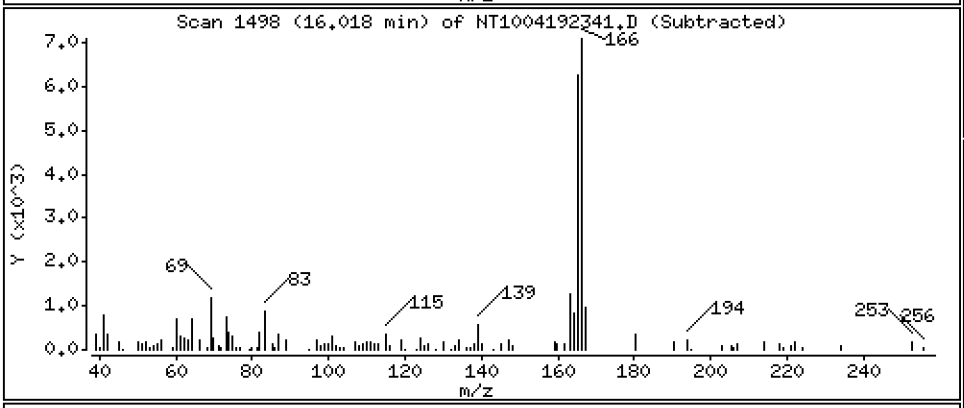
Column phase: ZB-5msi

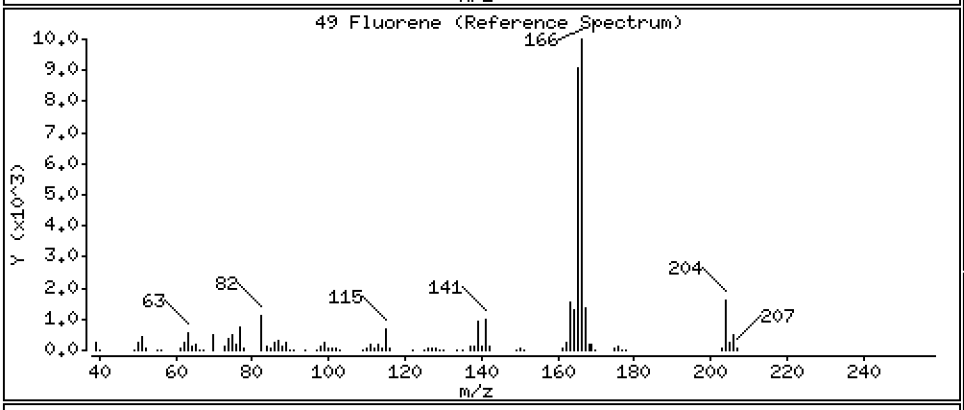
Column diameter: 0.25

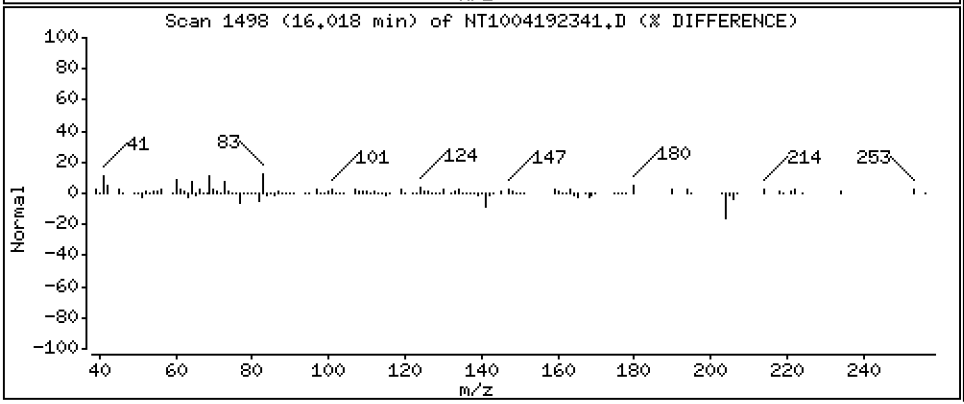
49 Fluorene

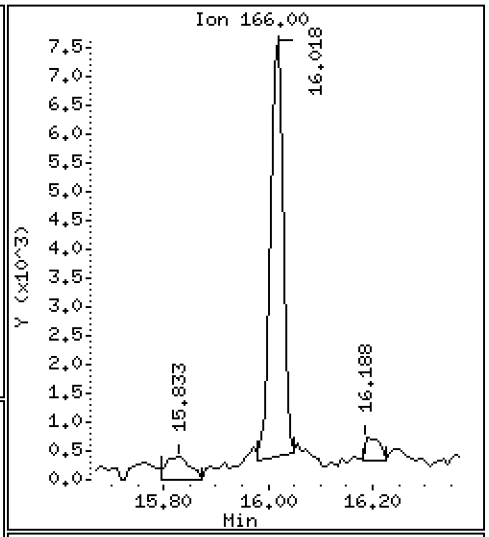
Concentration: 0.1090 ug/mL

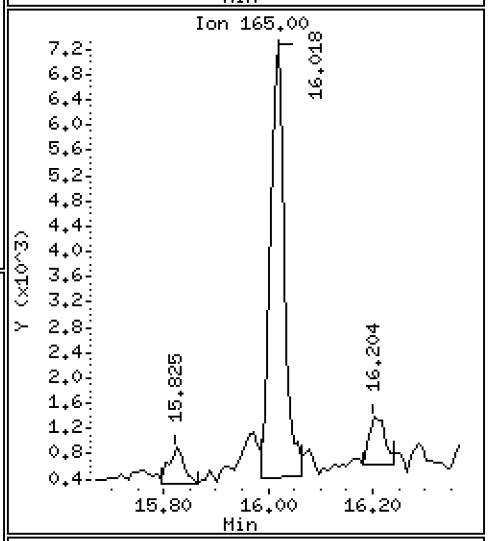


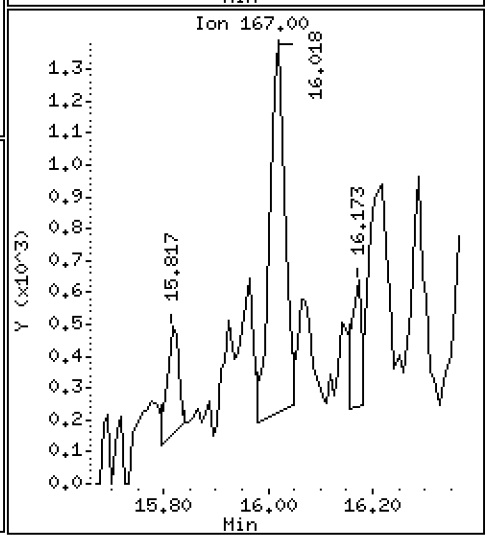












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

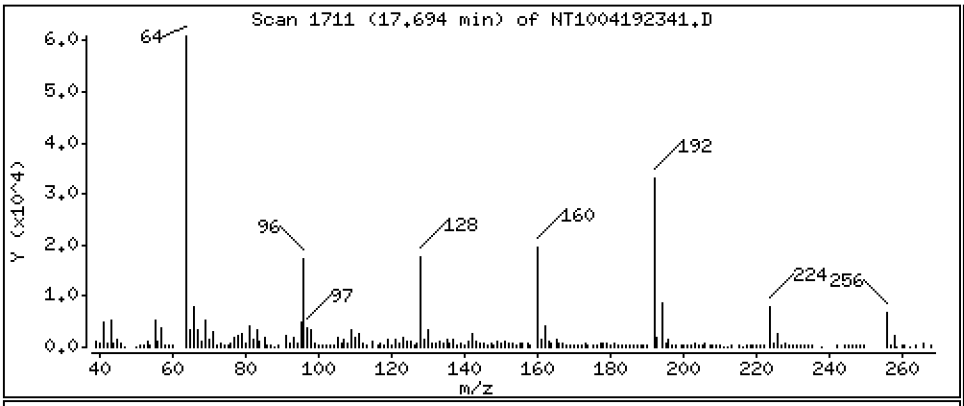
Operator: VTS

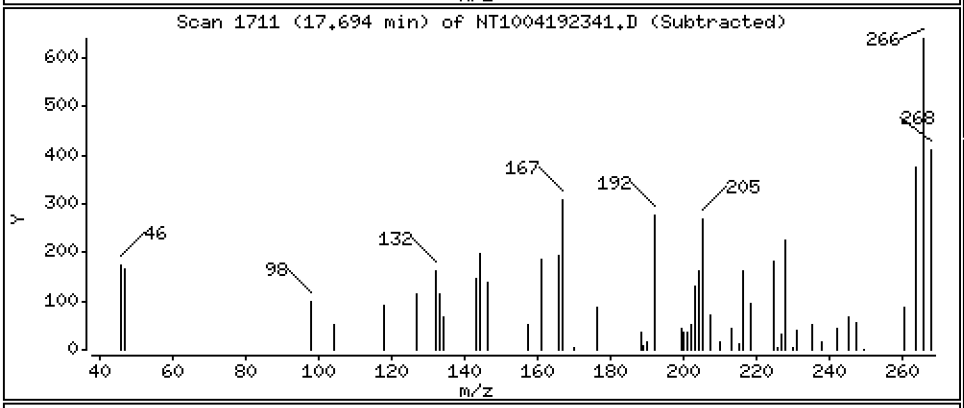
Column phase: ZB-5msi

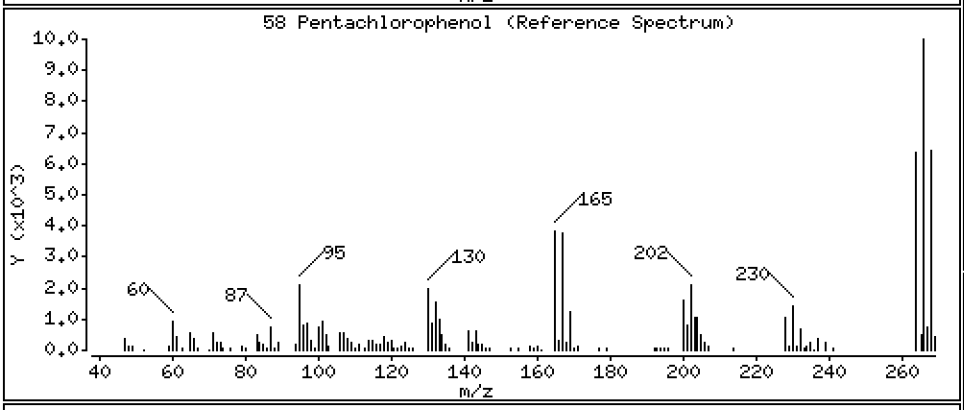
Column diameter: 0.25

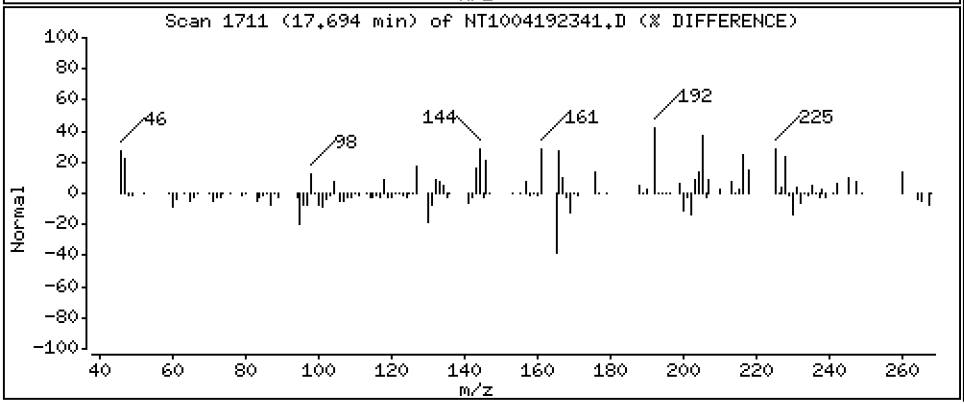
58 Pentachlorophenol

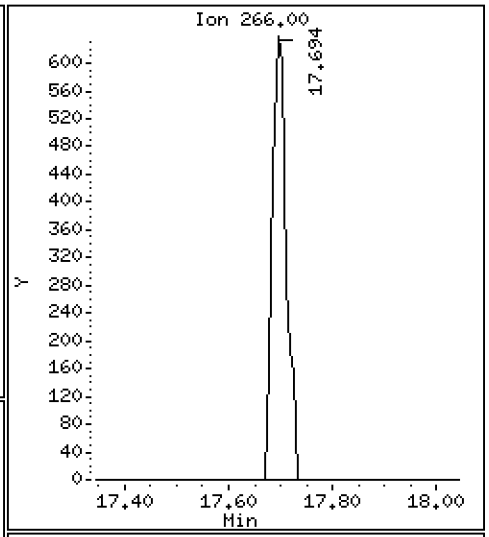
Concentration: 0.05839 ug/mL

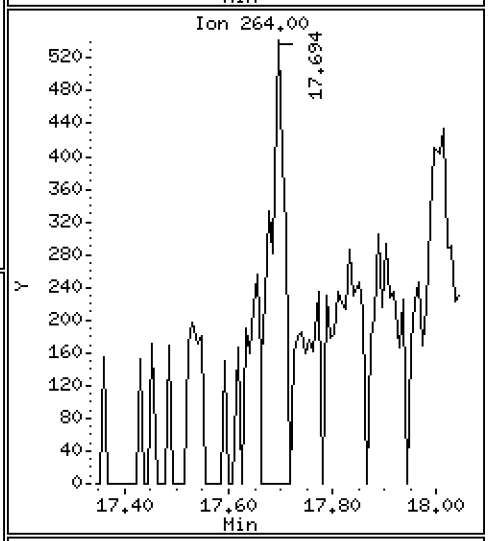


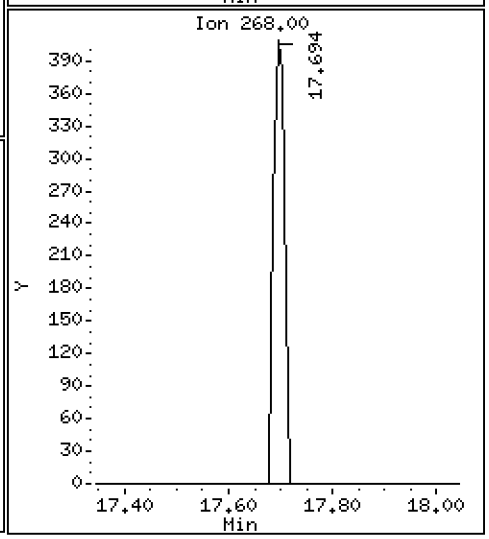












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

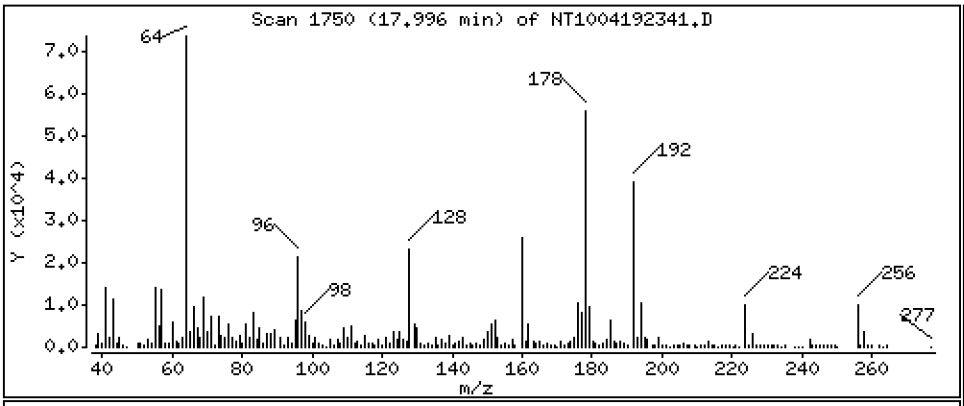
Operator: VTS

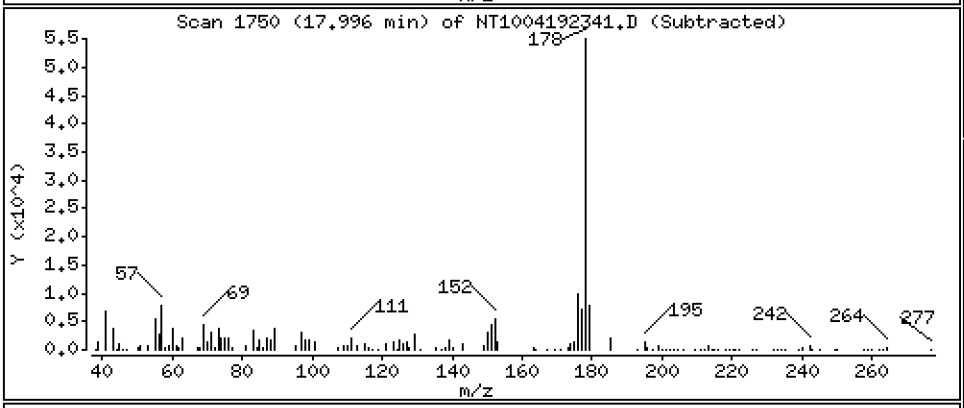
Column phase: ZB-5msi

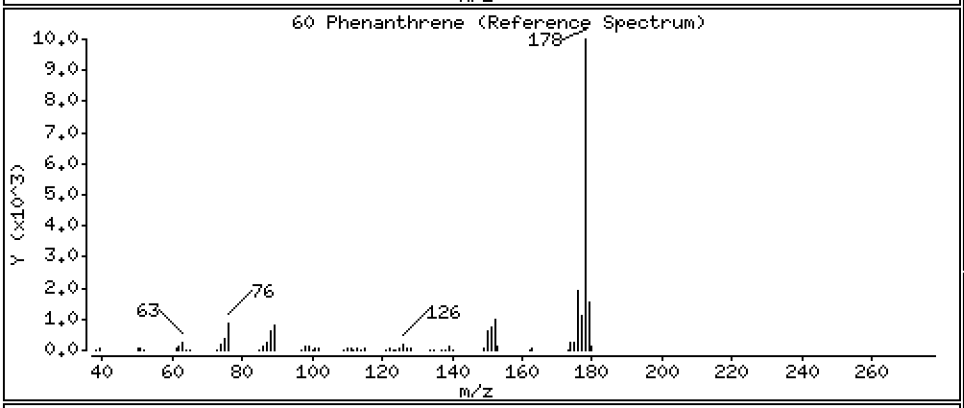
Column diameter: 0.25

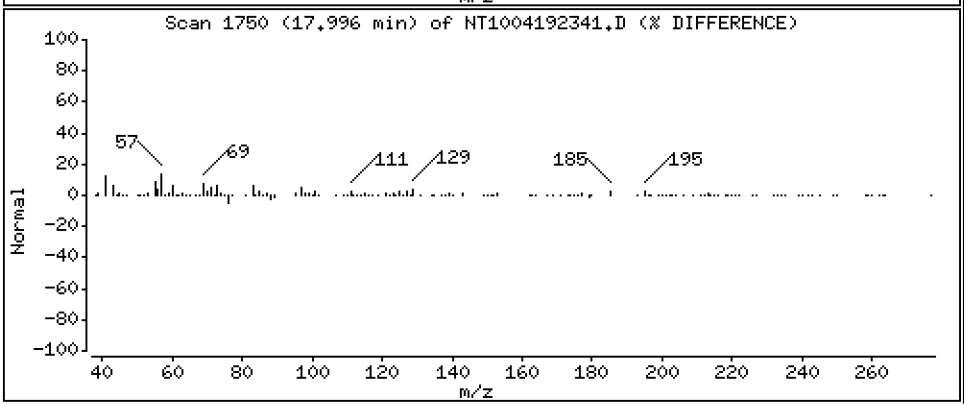
60 Phenanthrene

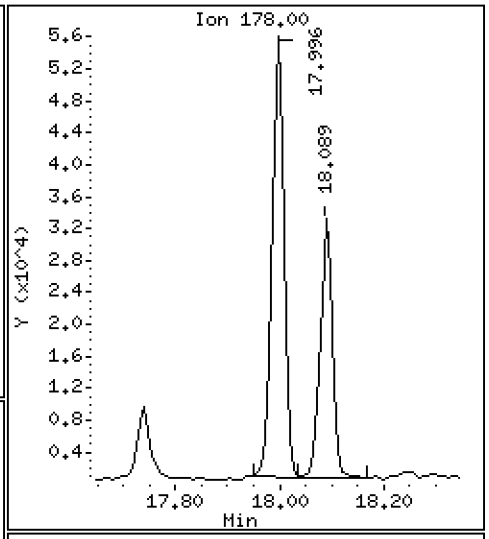
Concentration: 0.5324 ug/mL

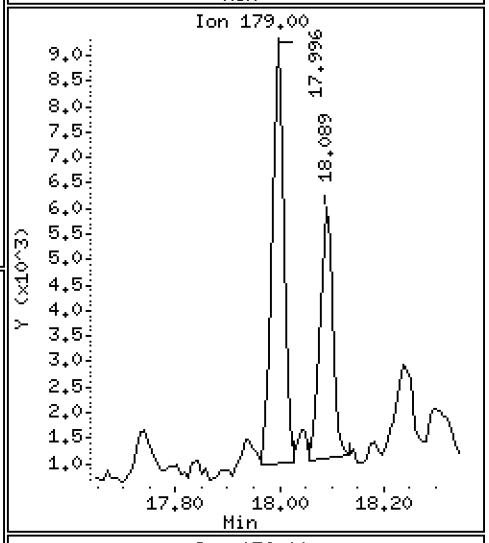


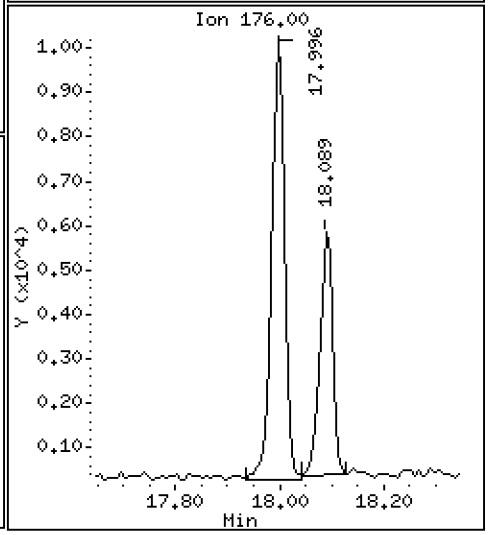












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192341.D

Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

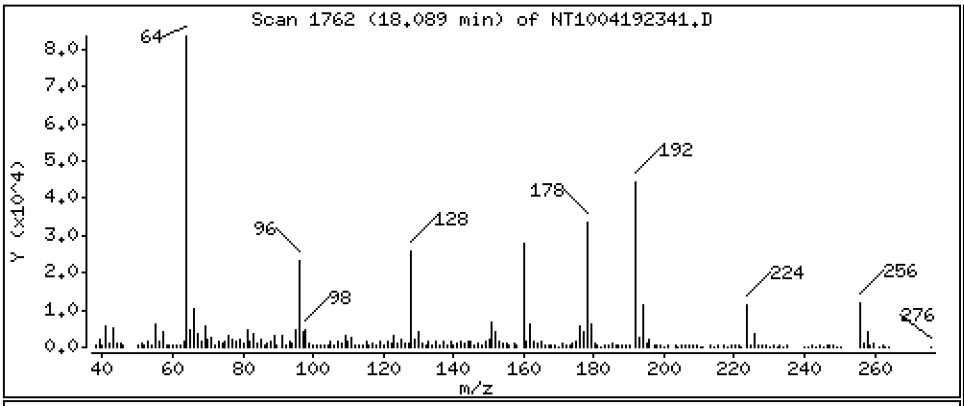
Operator: VTS

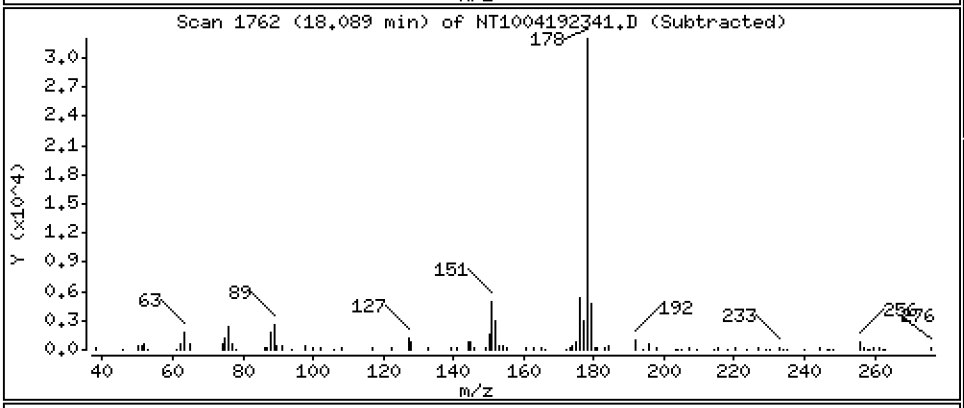
Column phase: ZB-5msi

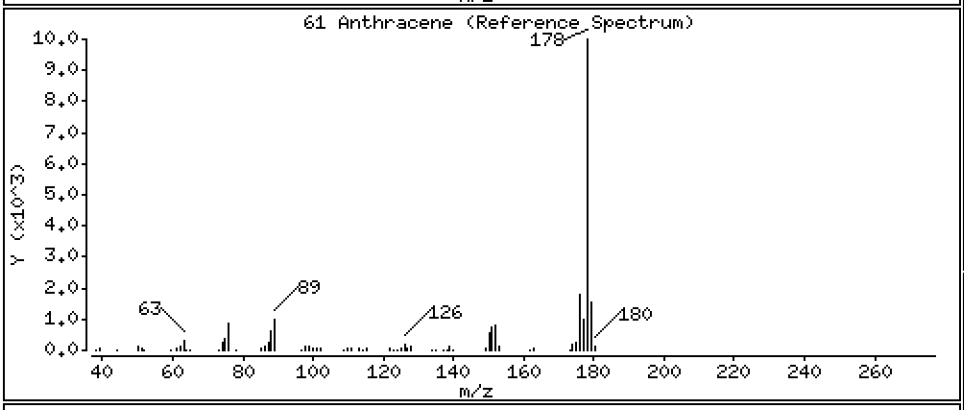
Column diameter: 0.25

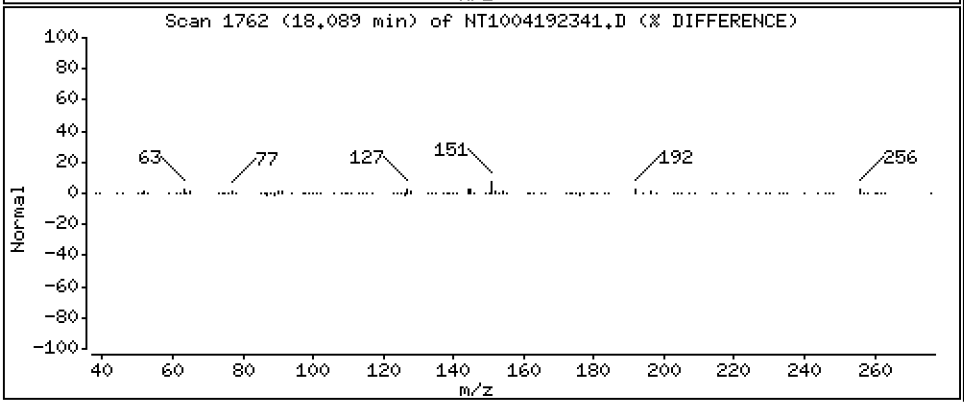
61 Anthracene

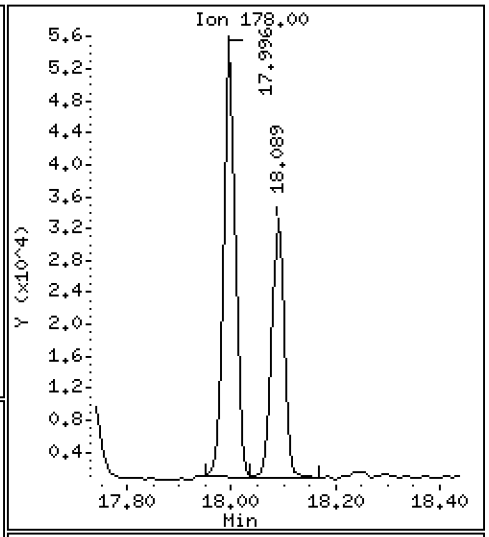
Concentration: 0.3489 ug/mL

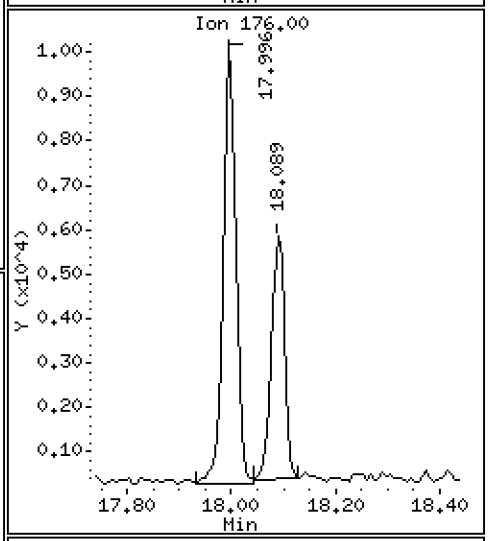


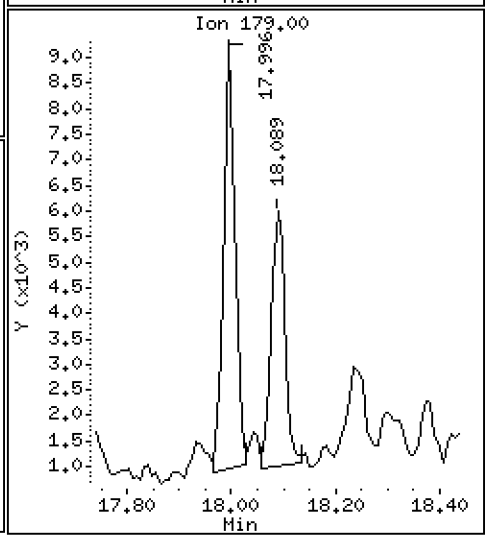












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

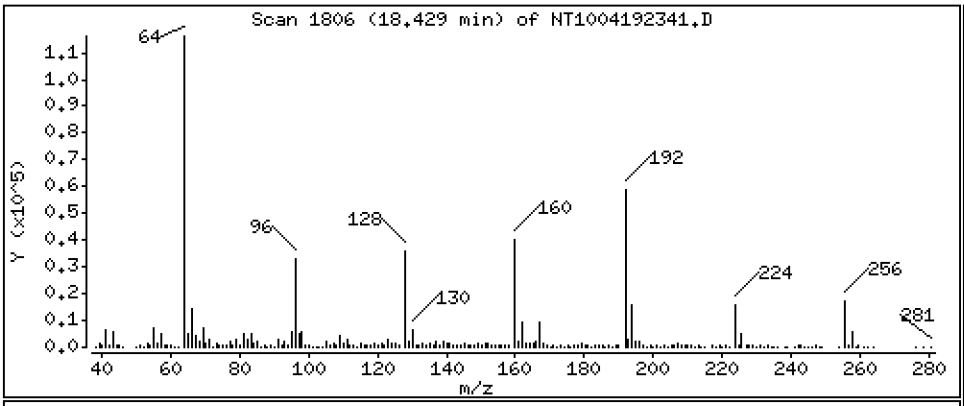
Operator: VTS

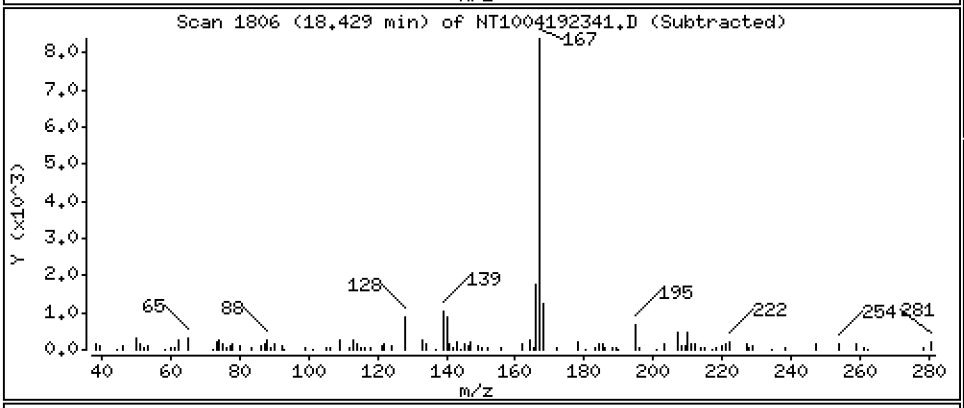
Column phase: ZB-5msi

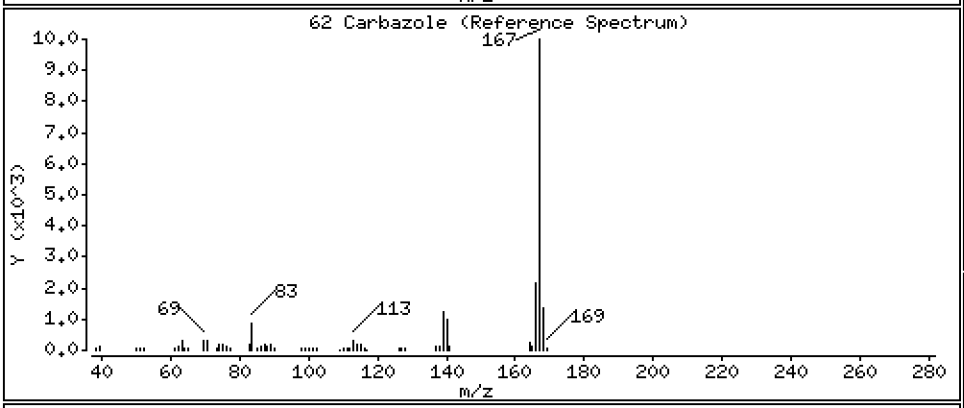
Column diameter: 0.25

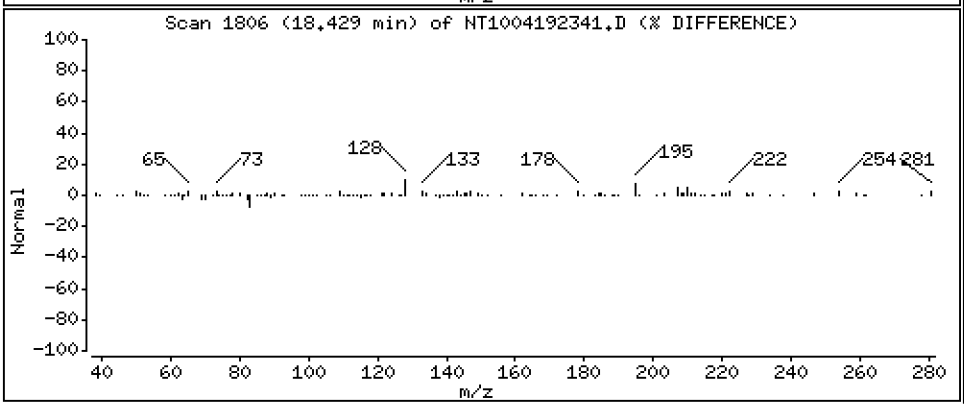
62 Carbazole

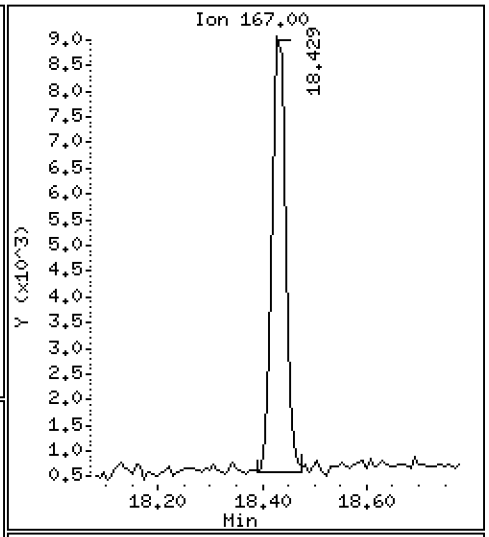
Concentration: 0.1105 ug/mL

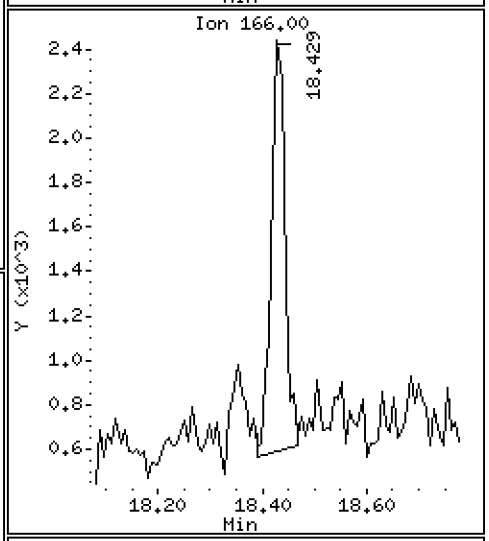


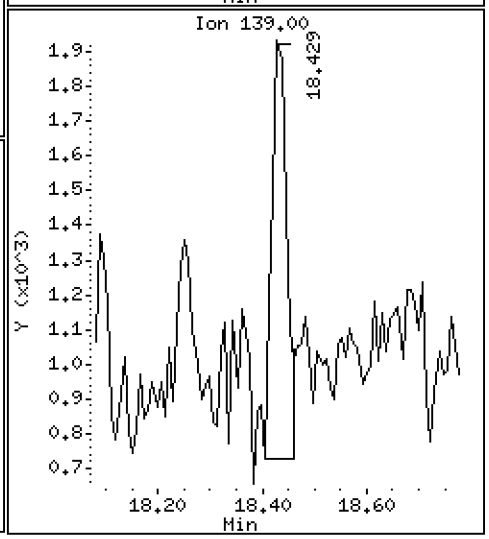












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

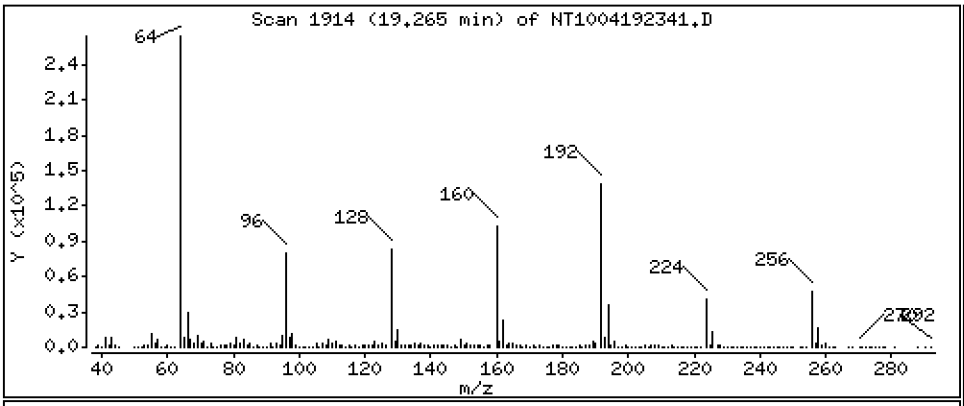
Operator: VTS

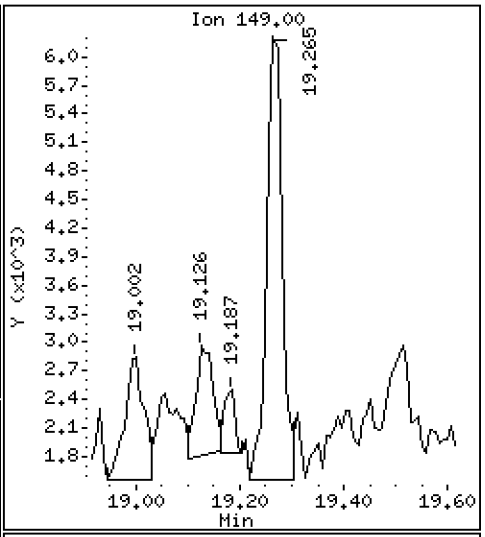
Column phase: ZB-5msi

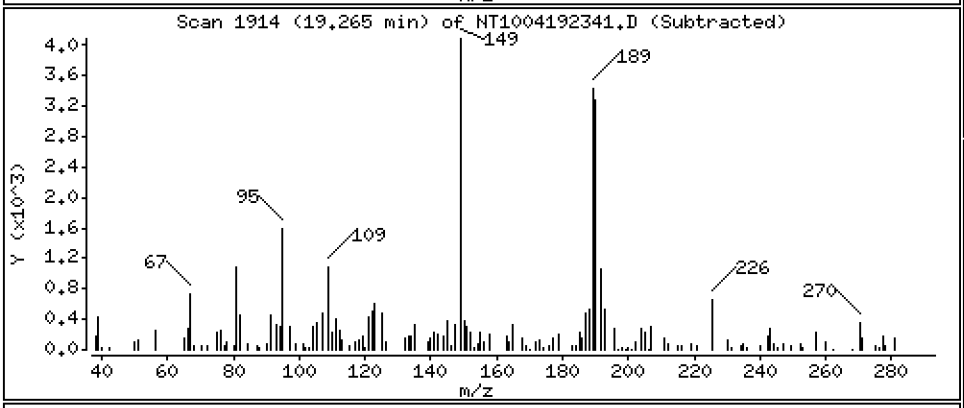
Column diameter: 0.25

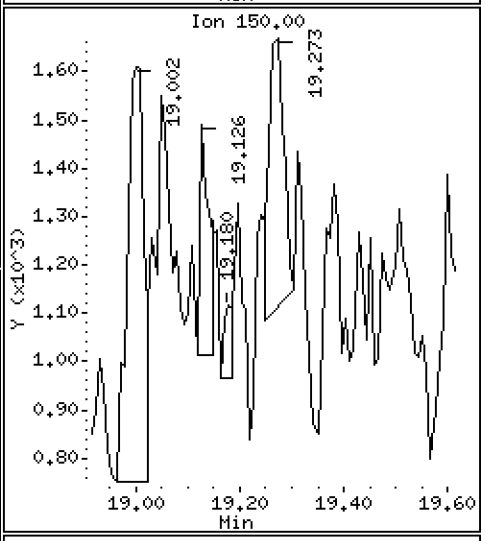
63 Di-n-butylphthalate

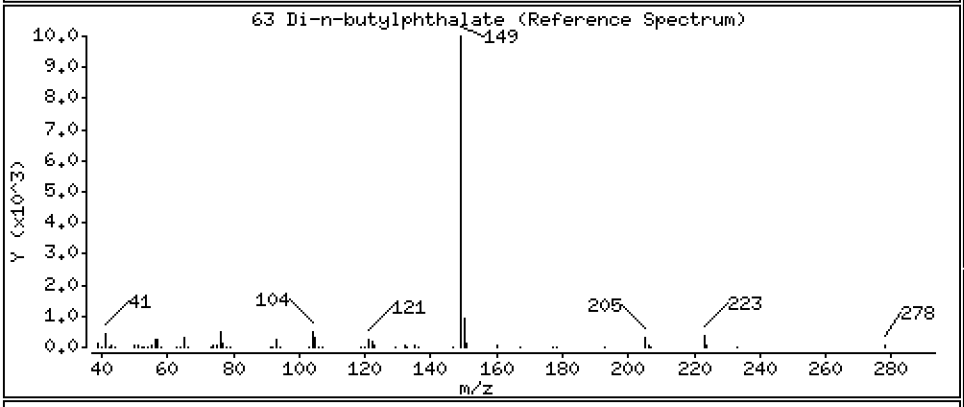
Concentration: 0.05189 ug/mL

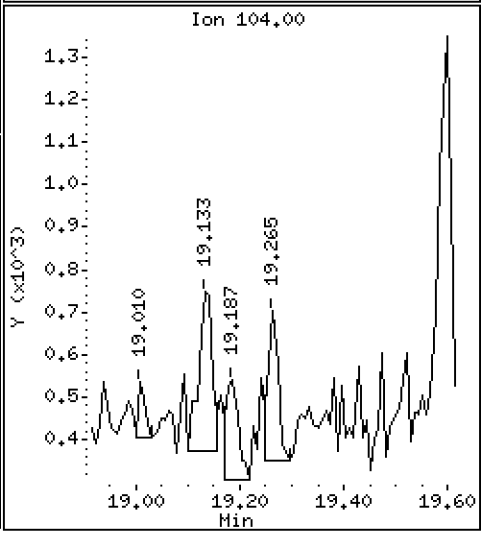


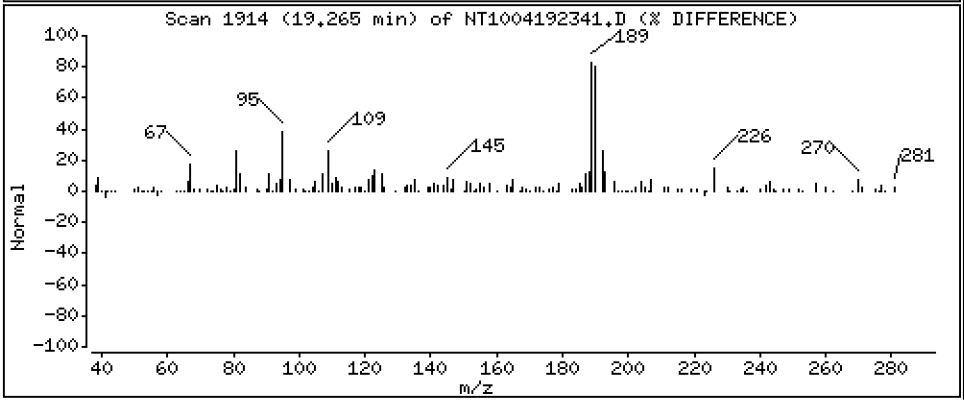












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

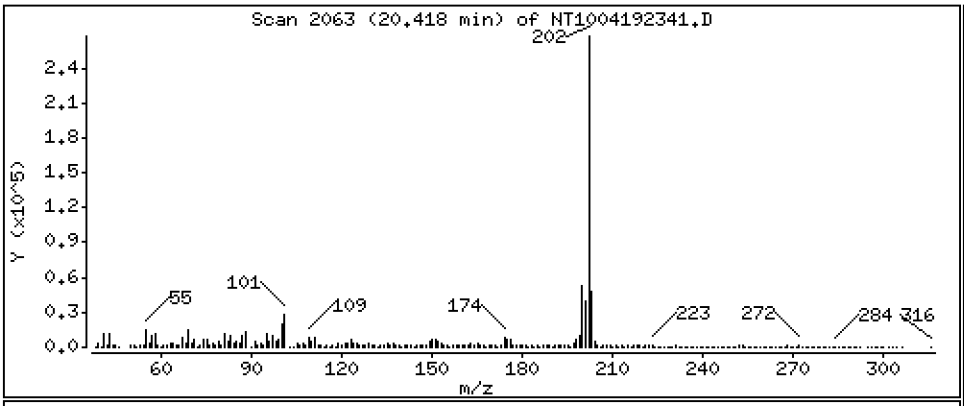
Operator: VTS

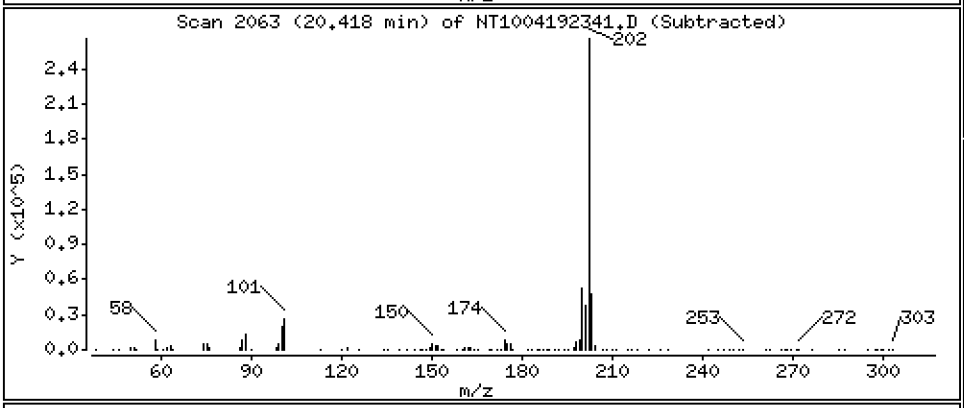
Column phase: ZB-5msi

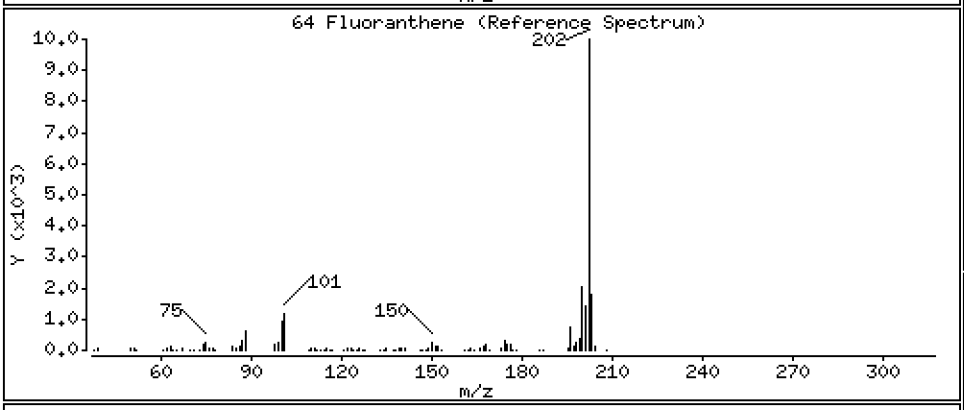
Column diameter: 0.25

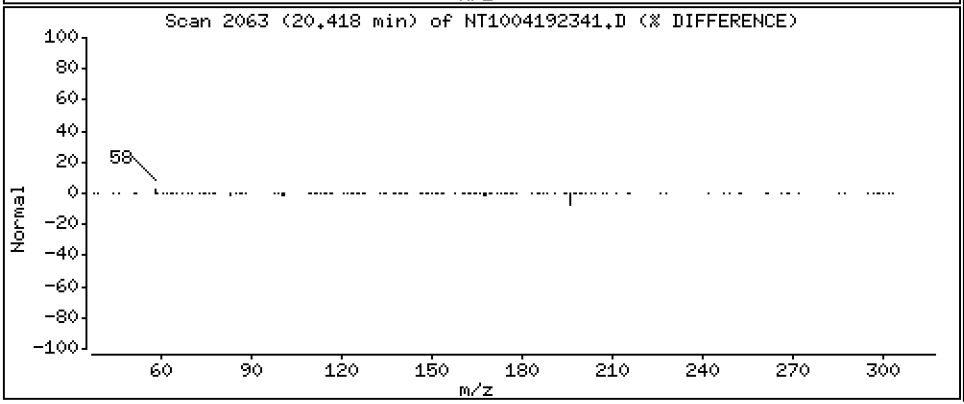
64 Fluoranthene

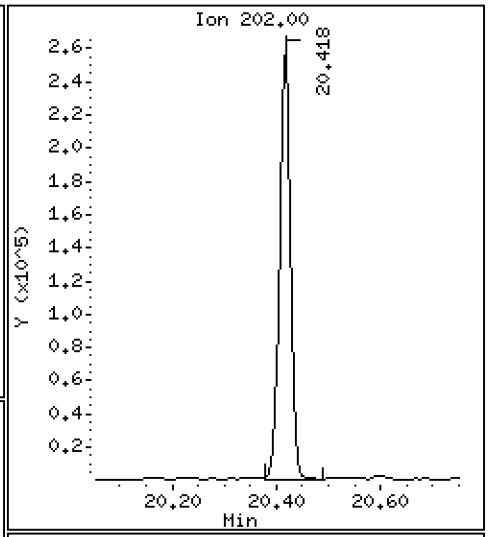
Concentration: 1.690 ug/mL

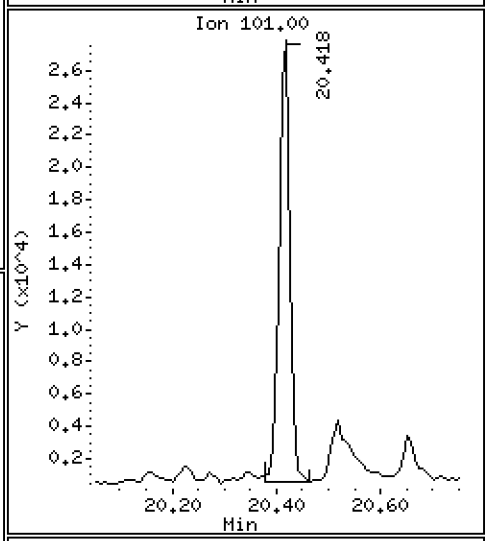


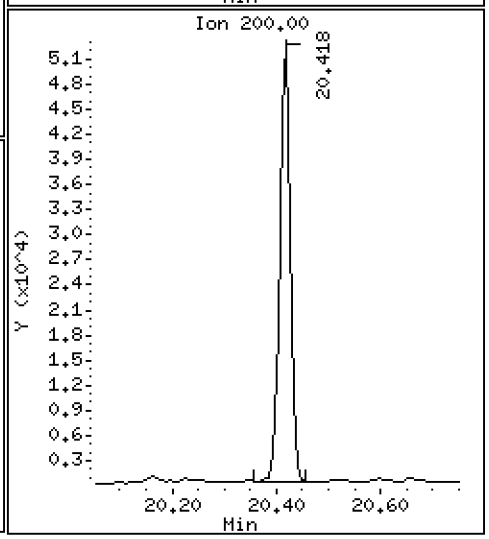












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

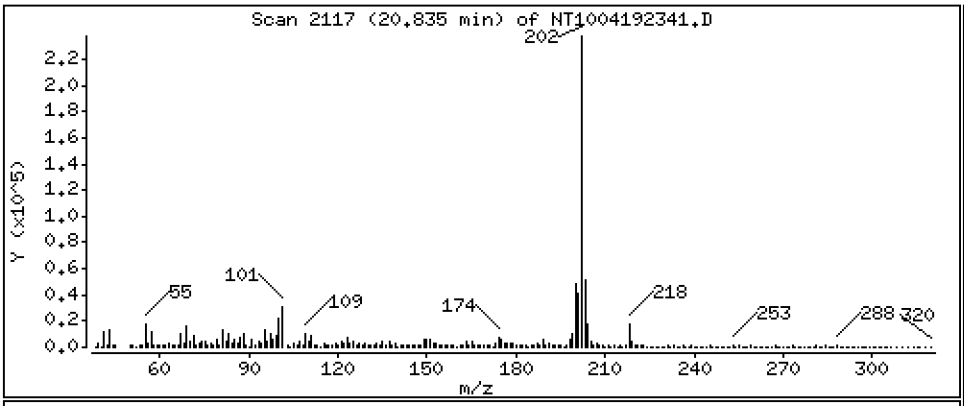
Operator: VTS

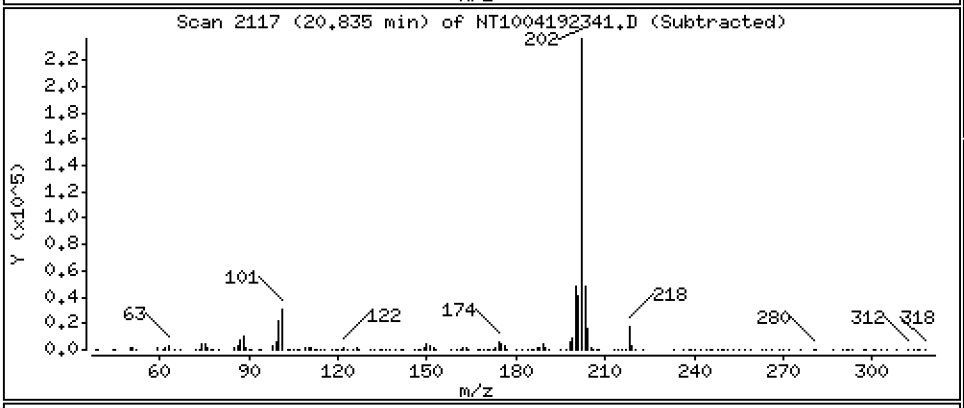
Column phase: ZB-5msi

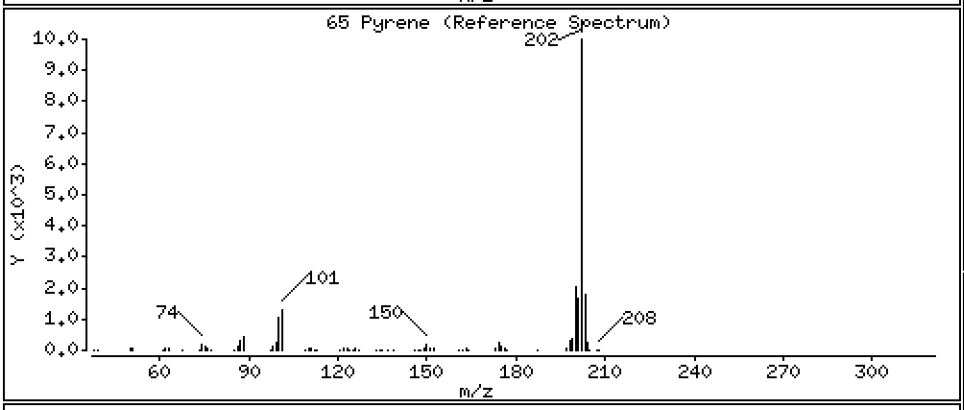
Column diameter: 0.25

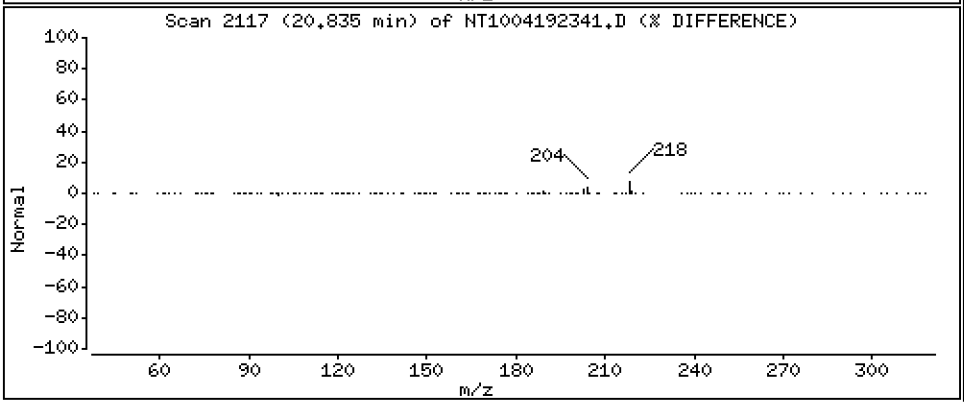
65 Pyrene

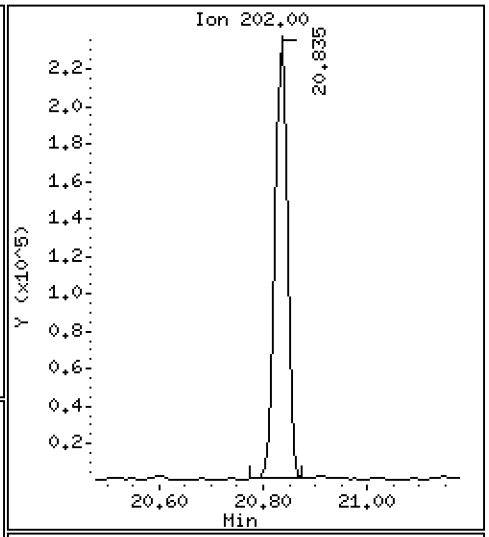
Concentration: 1.591 ug/mL

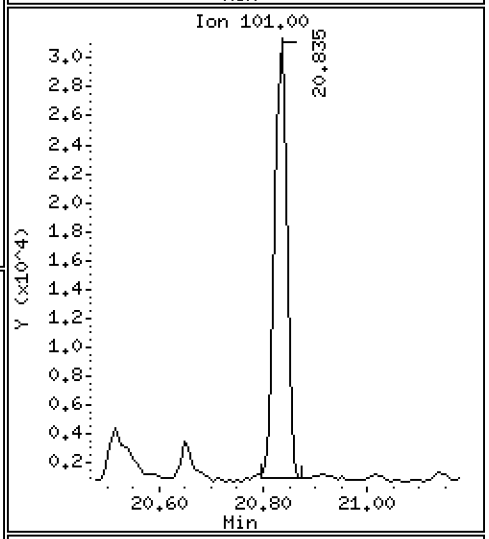


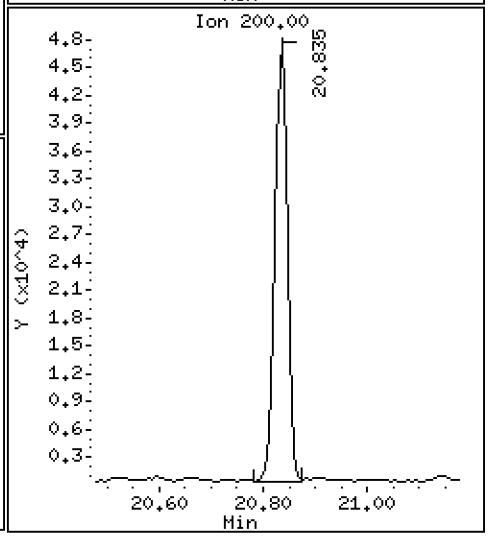












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

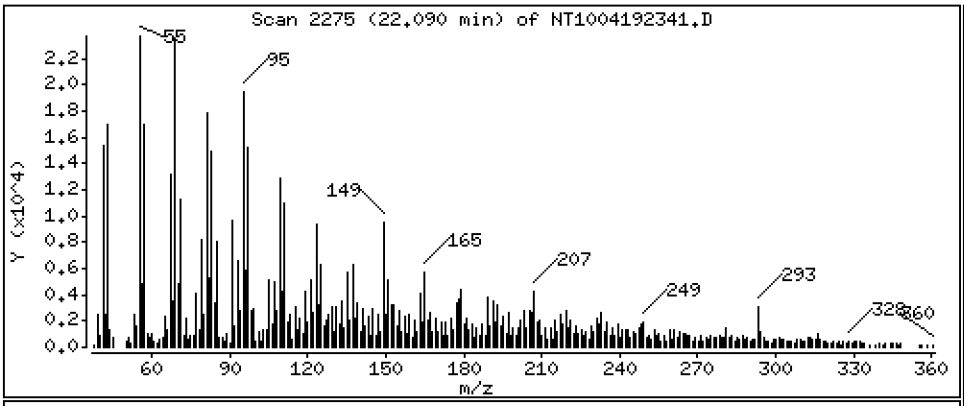
Operator: VTS

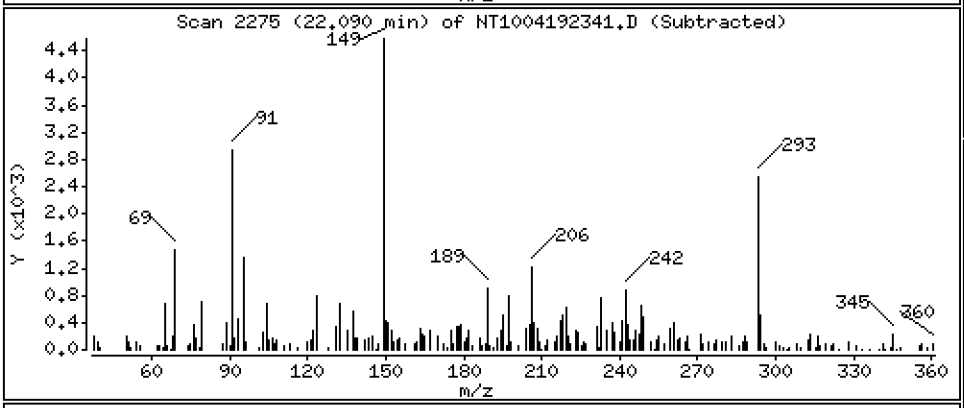
Column phase: ZB-5msi

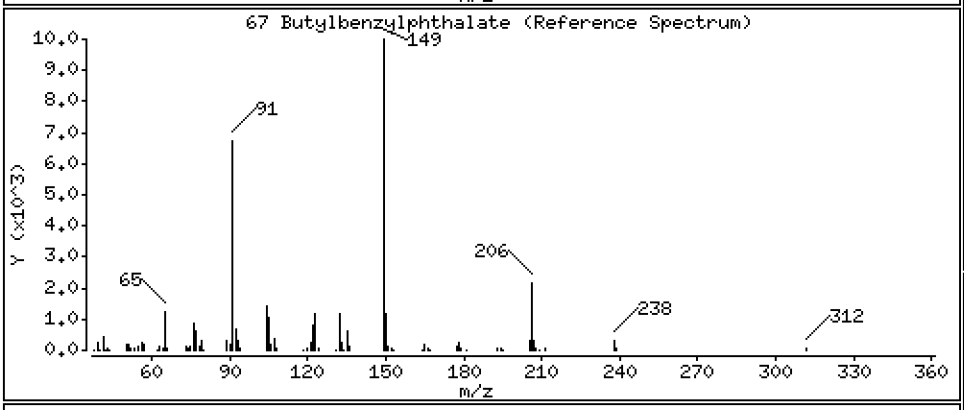
Column diameter: 0.25

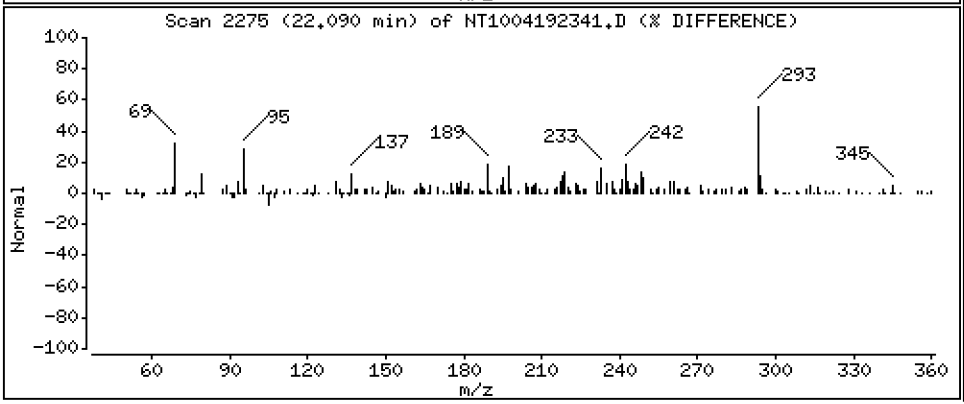
67 Butylbenzylphthalate

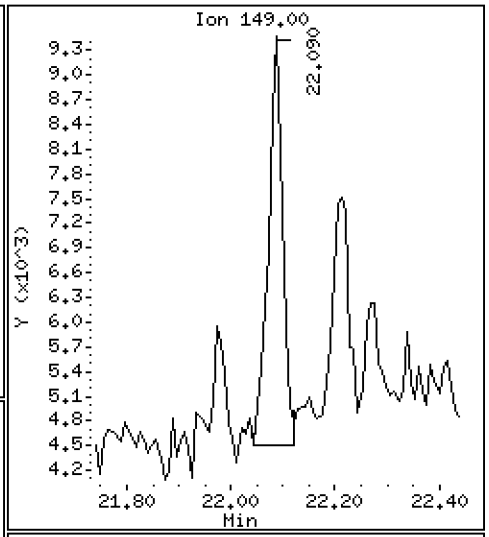
Concentration: 0.1111 ug/mL

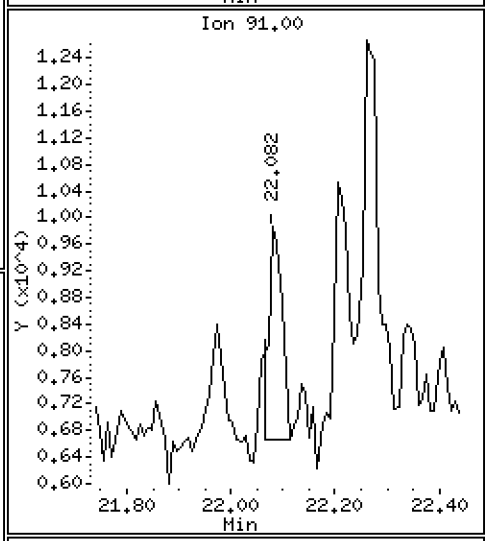


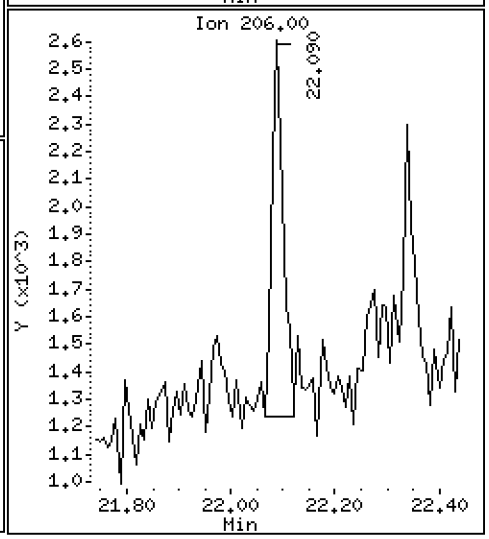












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

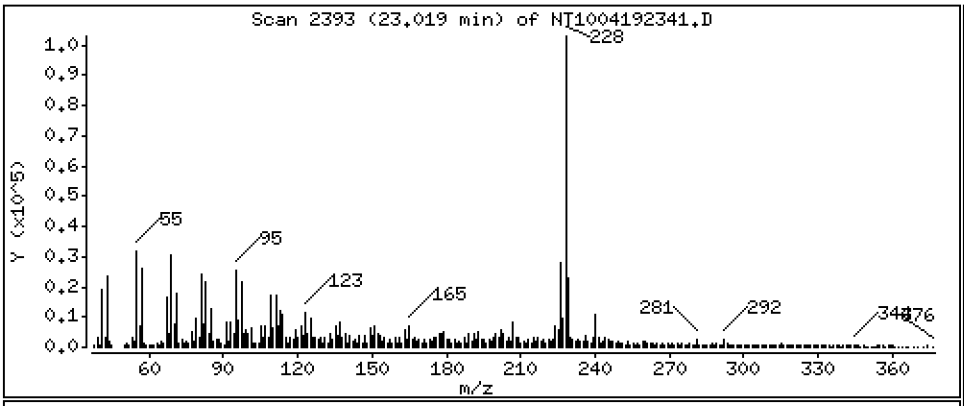
Operator: VTS

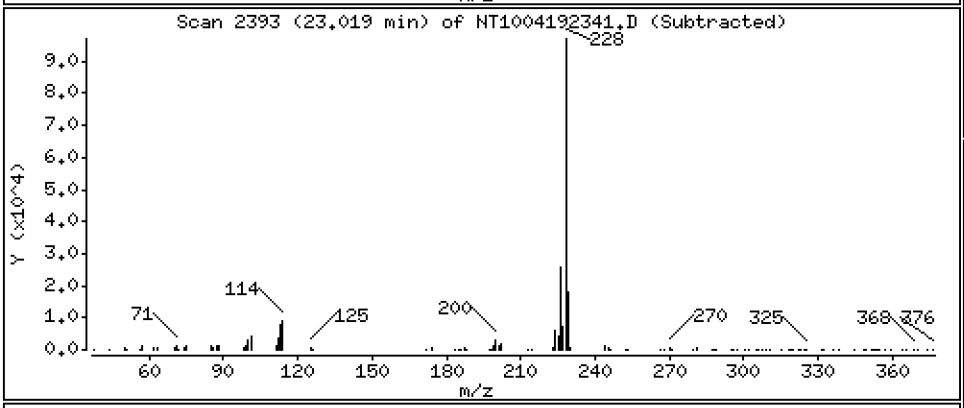
Column phase: ZB-5msi

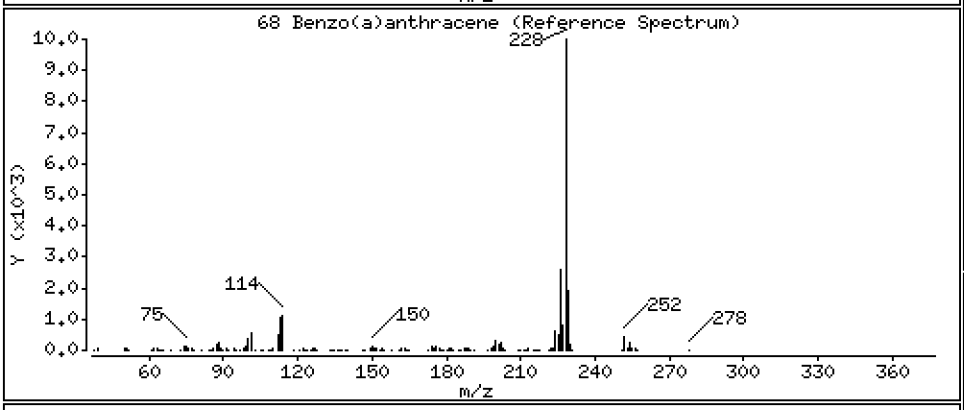
Column diameter: 0.25

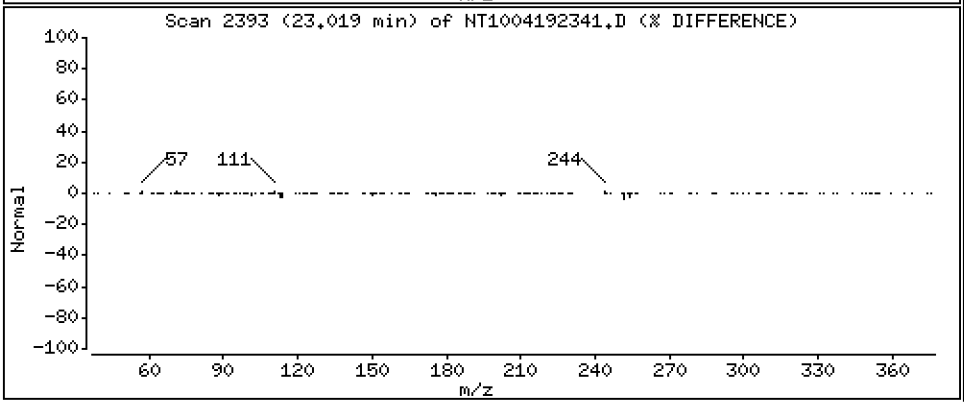
68 Benzo(a)anthracene

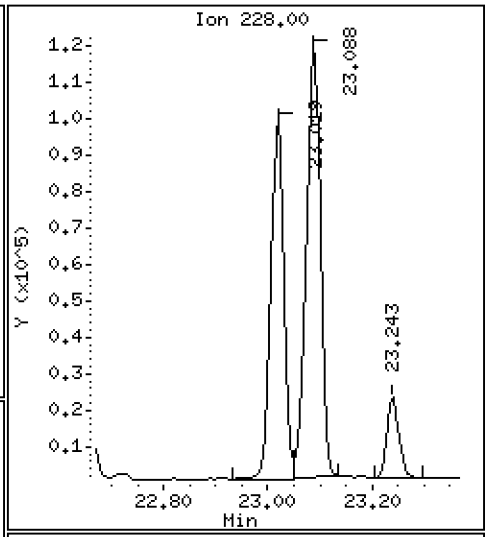
Concentration: 0.8249 ug/mL

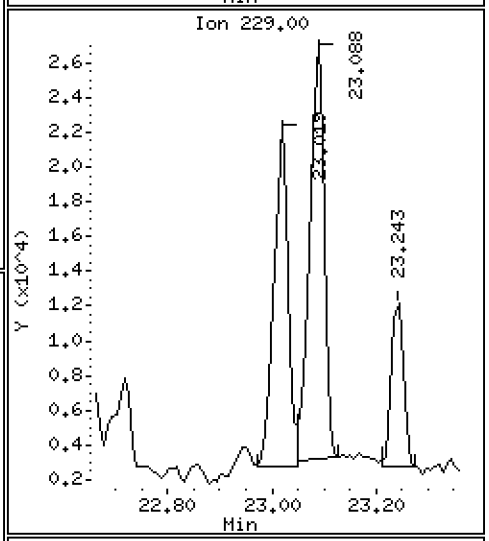


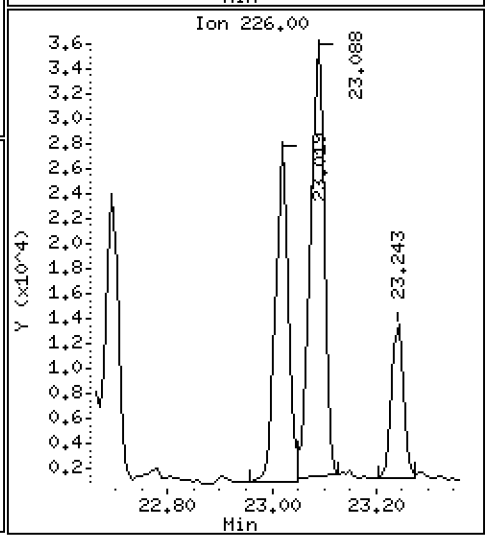












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

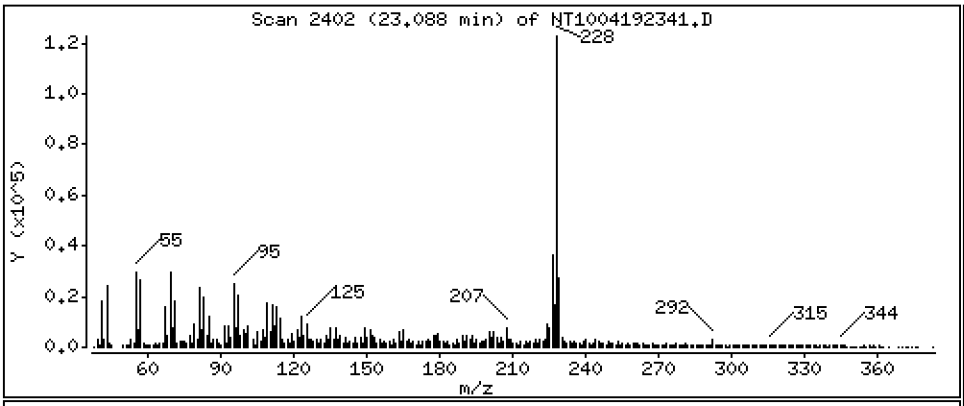
Operator: VTS

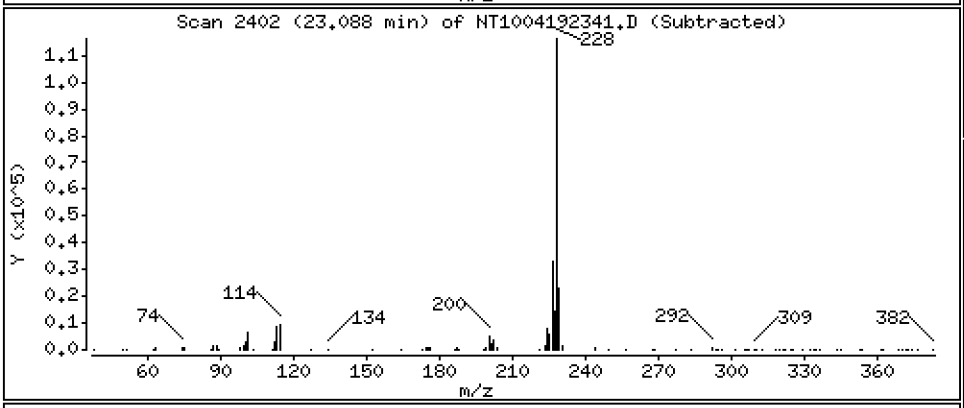
Column phase: ZB-5msi

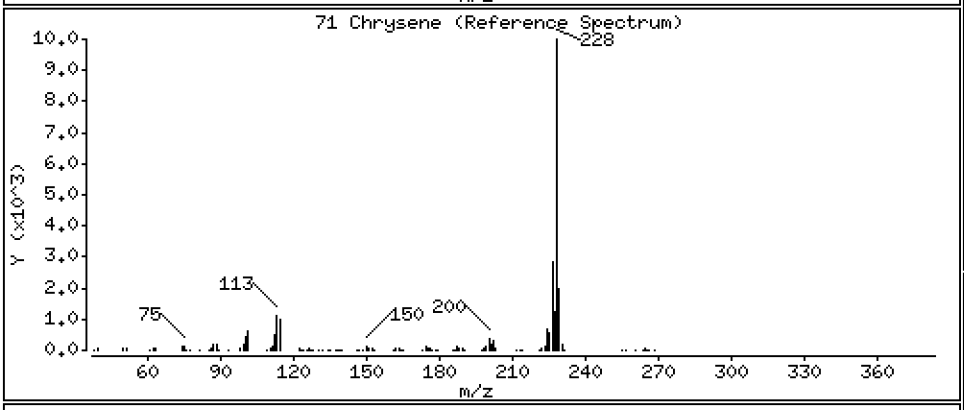
Column diameter: 0.25

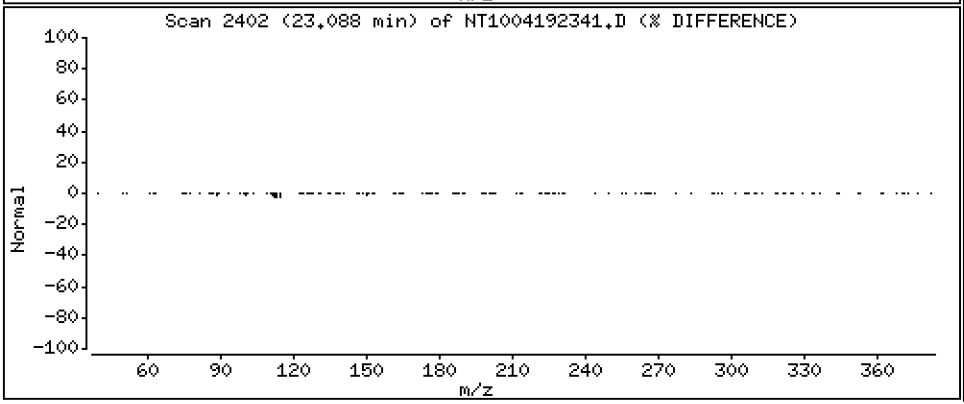
71 Chrysene

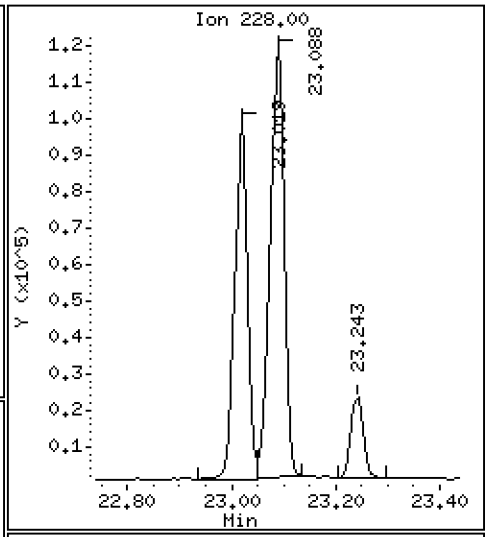
Concentration: 1.094 ug/mL

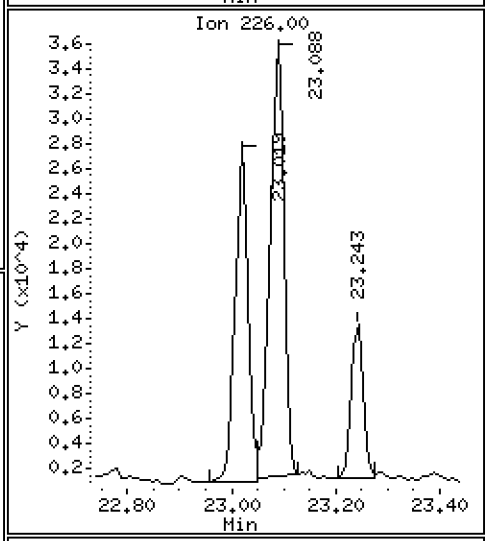


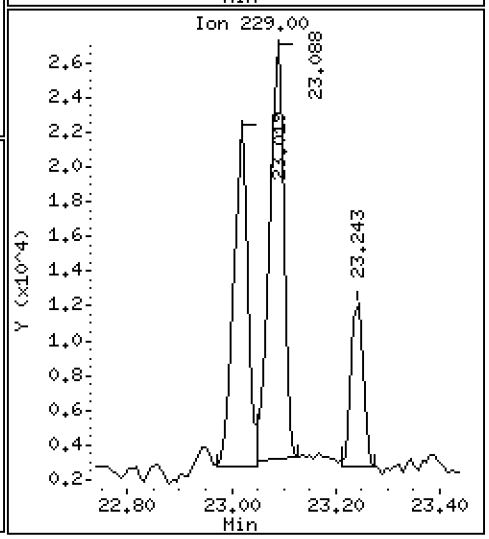












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

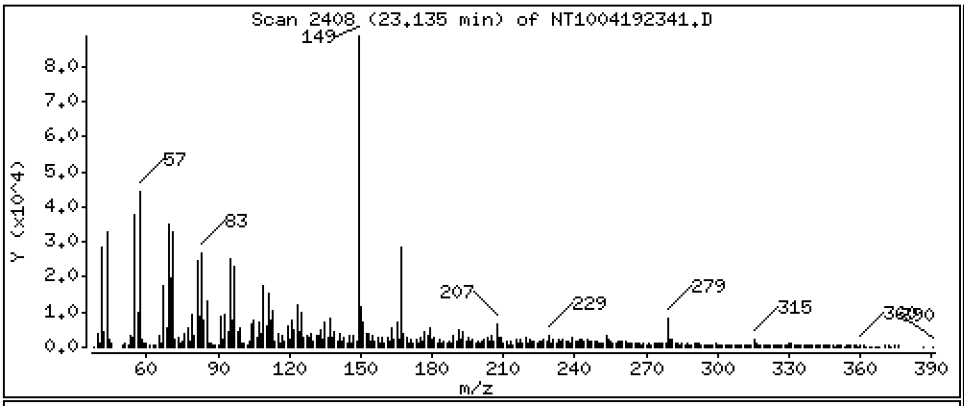
Operator: VTS

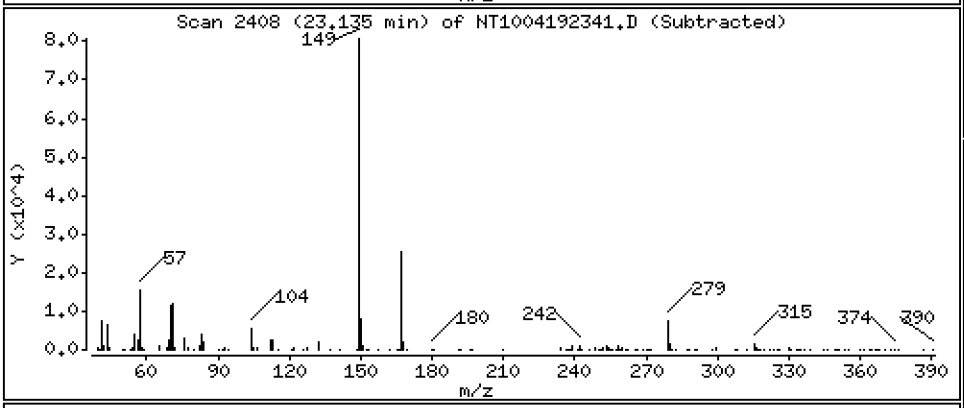
Column phase: ZB-5msi

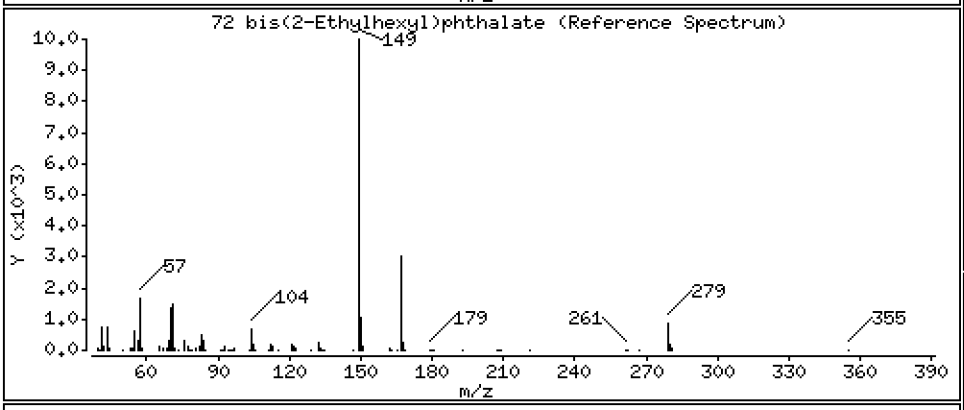
Column diameter: 0.25

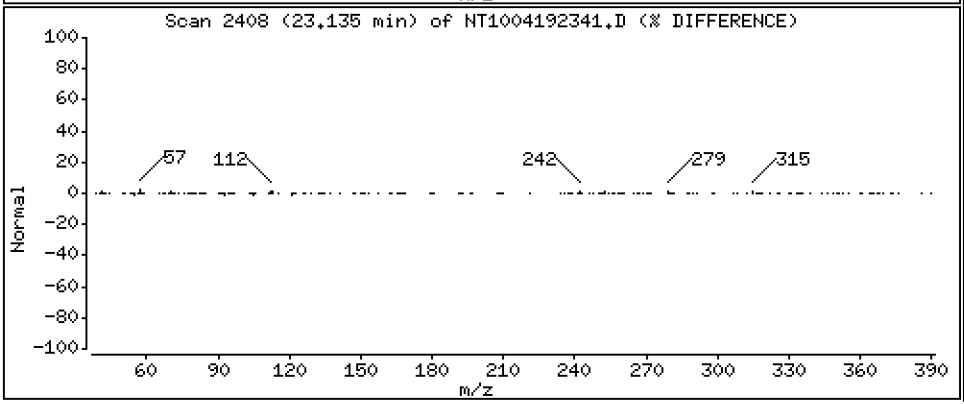
72 bis(2-Ethylhexyl)phthalate

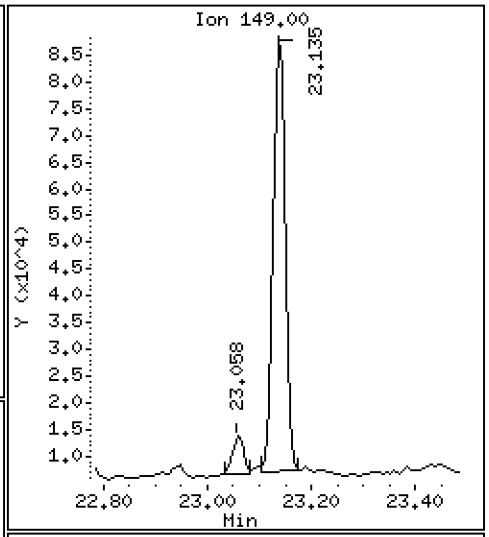
Concentration: 0.9672 ug/mL

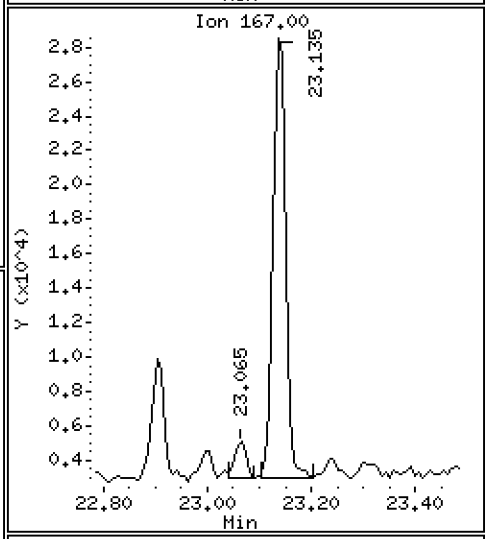


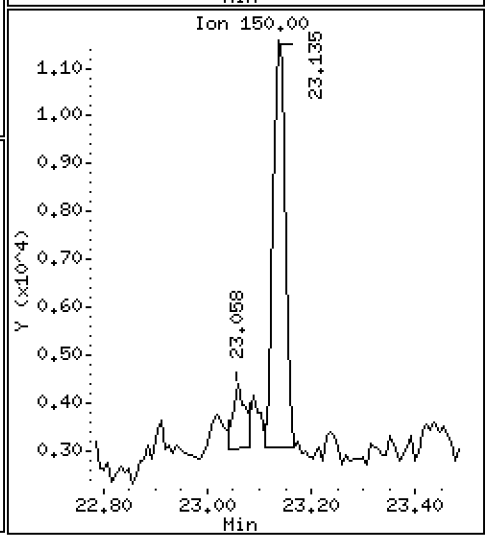












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

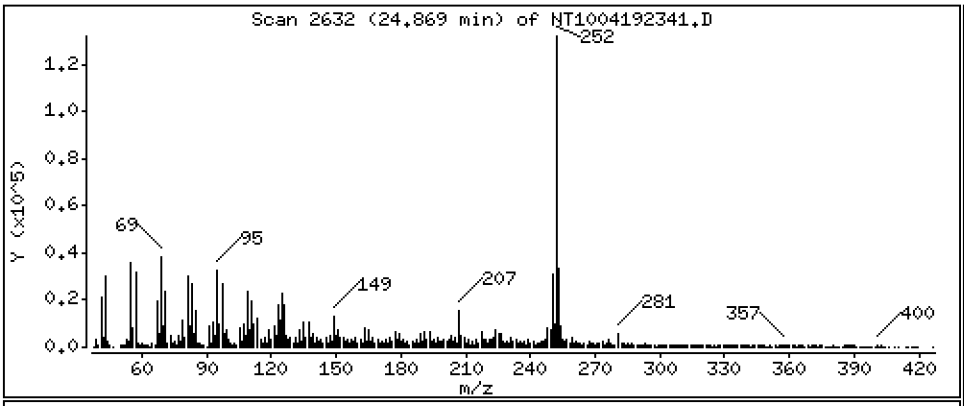
Operator: VTS

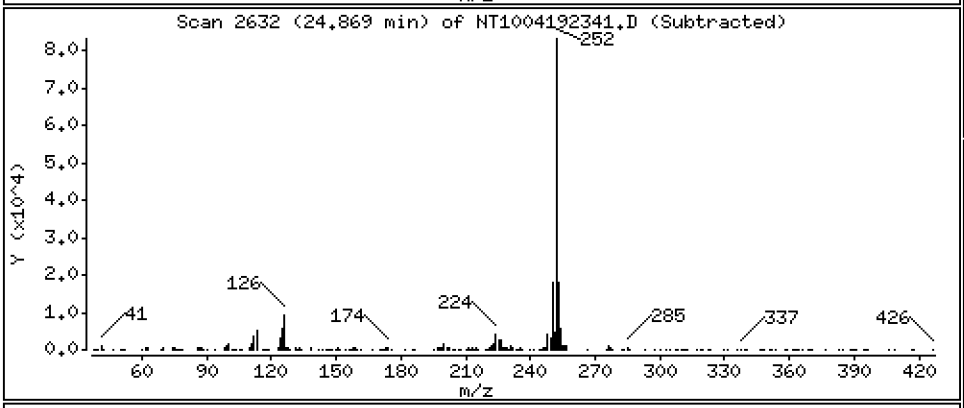
Column phase: ZB-5msi

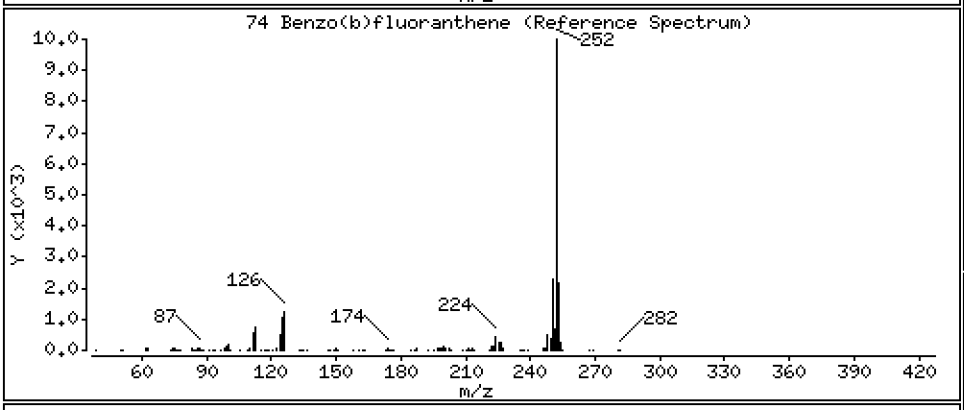
Column diameter: 0.25

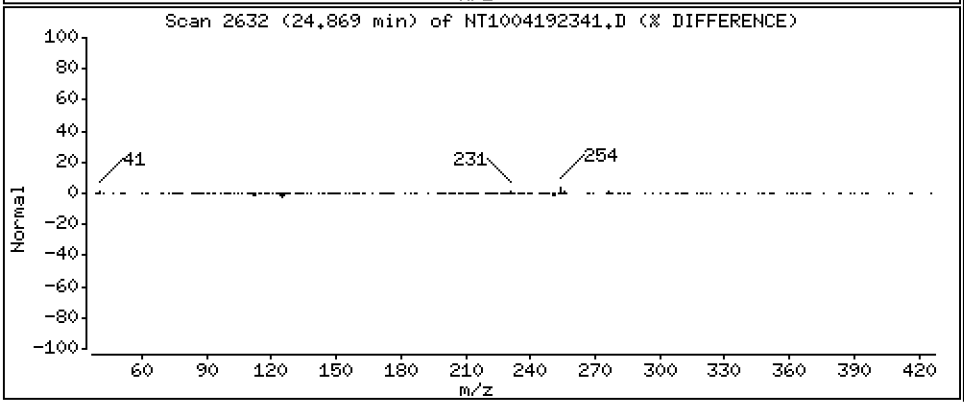
74 Benzo(b)fluoranthene

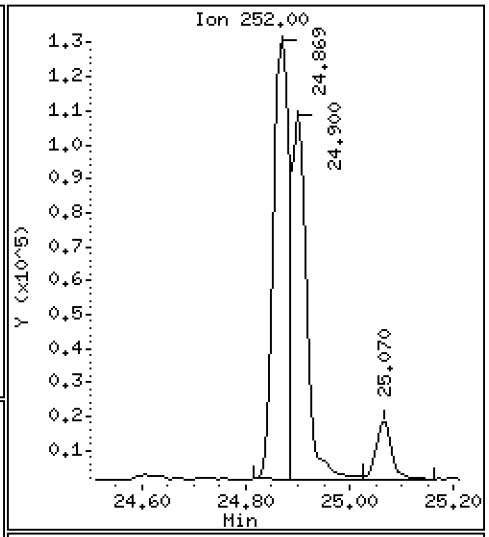
Concentration: 1.220 ug/mL

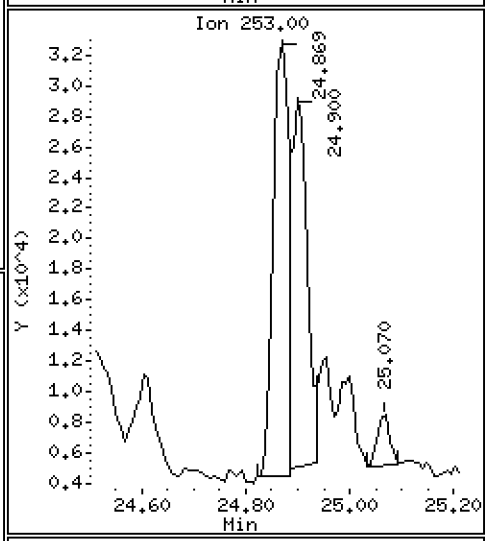


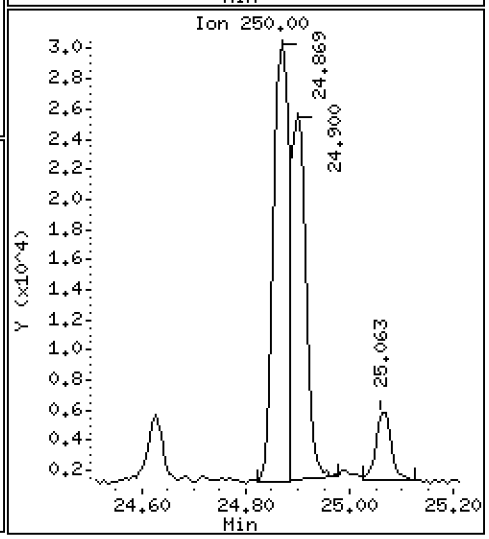












Date : 20-APR-2023 12:45

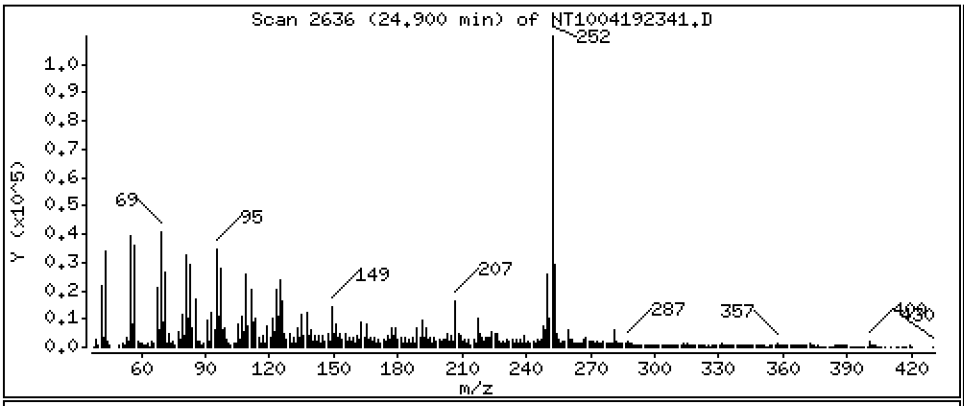
Client ID: Instrument: nt10.i

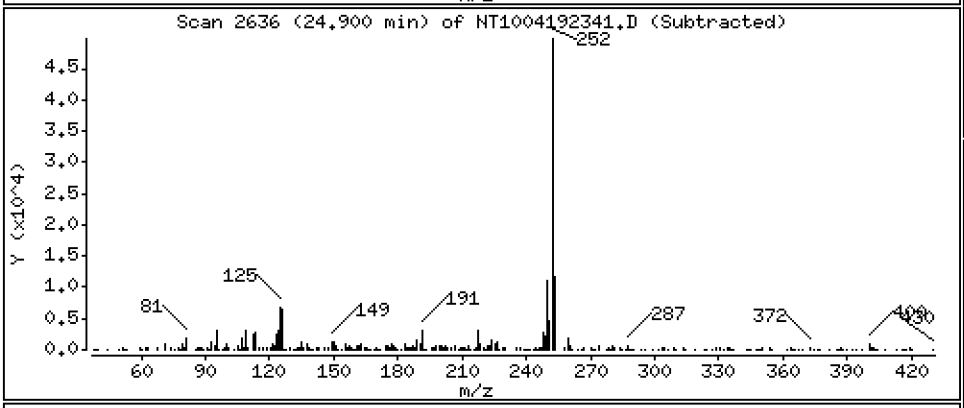
Sample Info: 23C0752-01

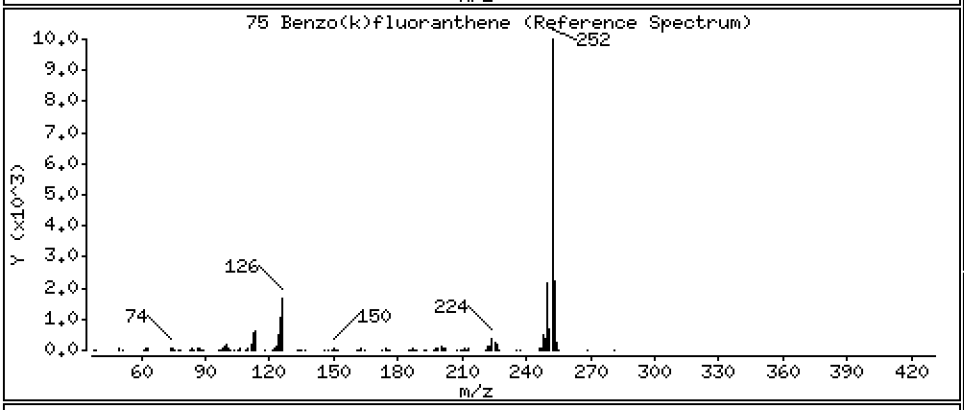
Operator: VTS

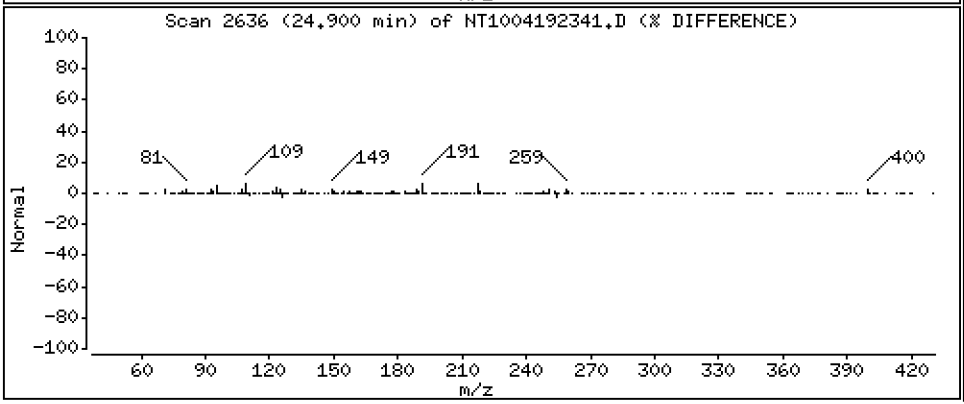
Column phase: ZB-5msi Column diameter: 0.25

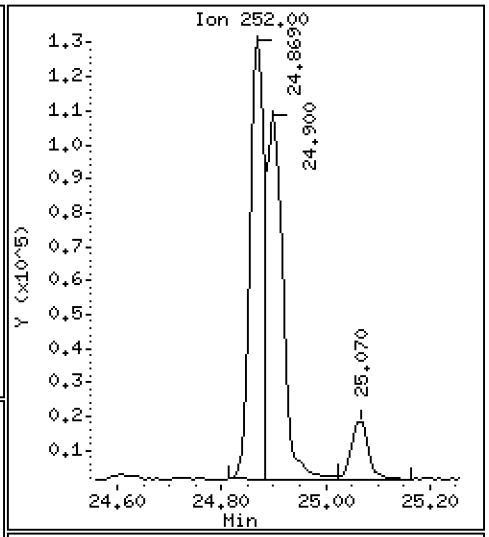
75 Benzo(k)fluoranthene Concentration: 1.157 ug/mL

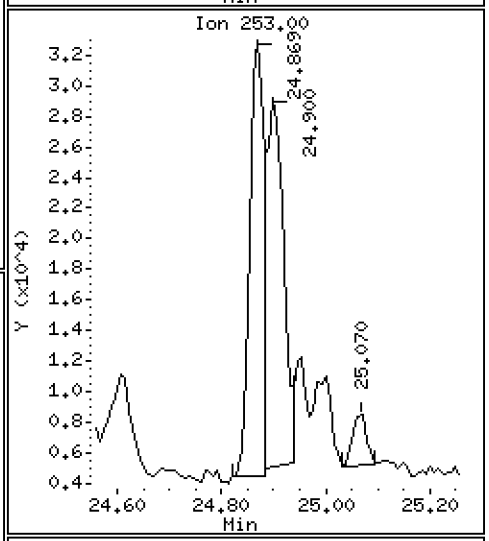


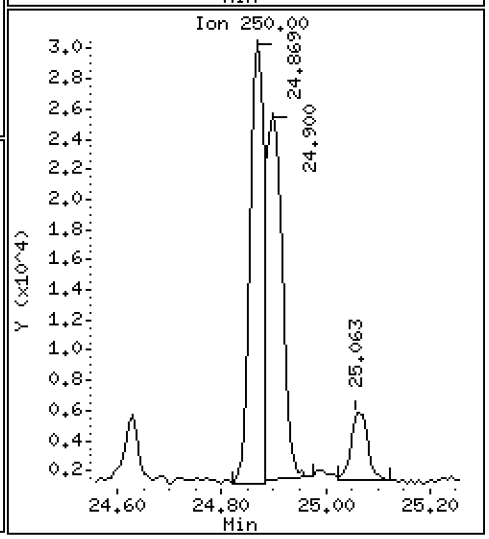












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

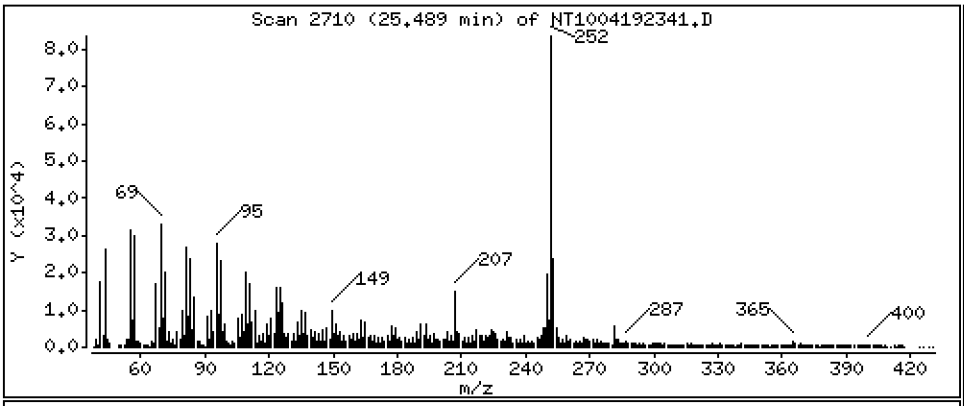
Operator: VTS

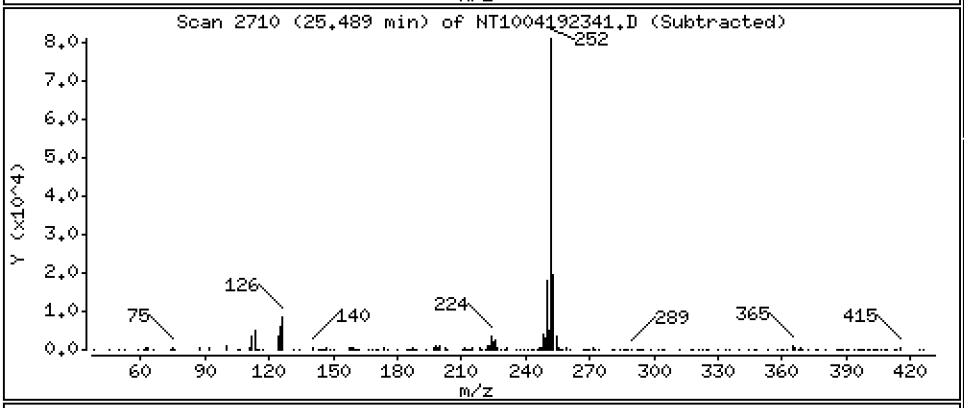
Column phase: ZB-5msi

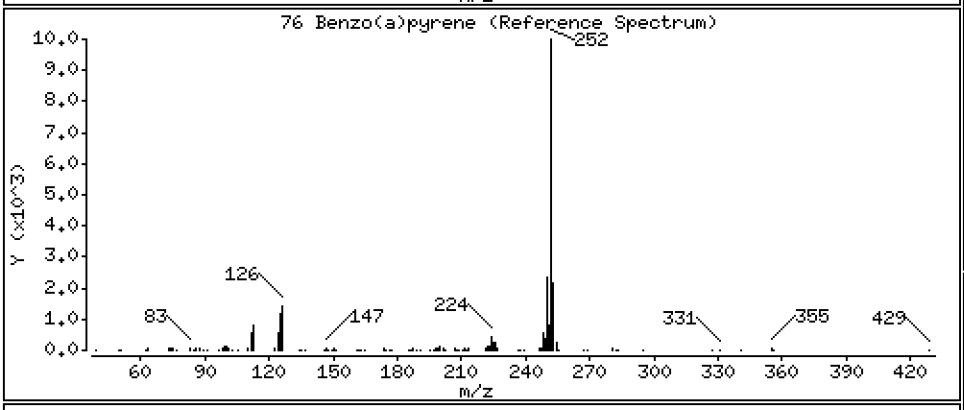
Column diameter: 0.25

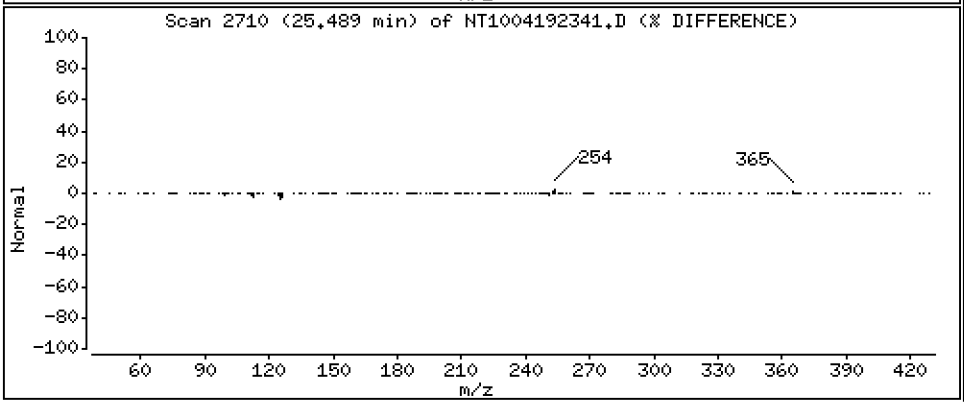
76 Benzo(a)pyrene

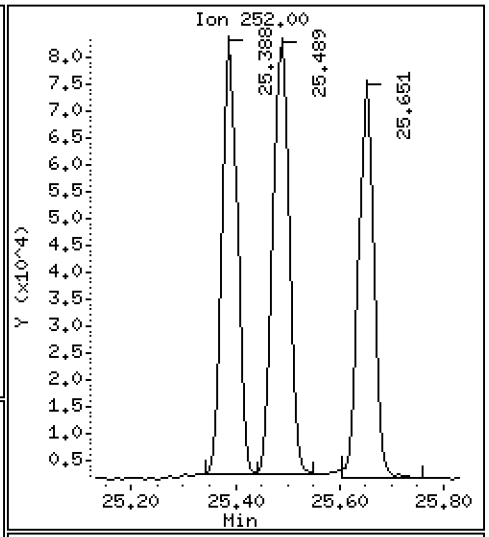
Concentration: 0.9218 ug/mL

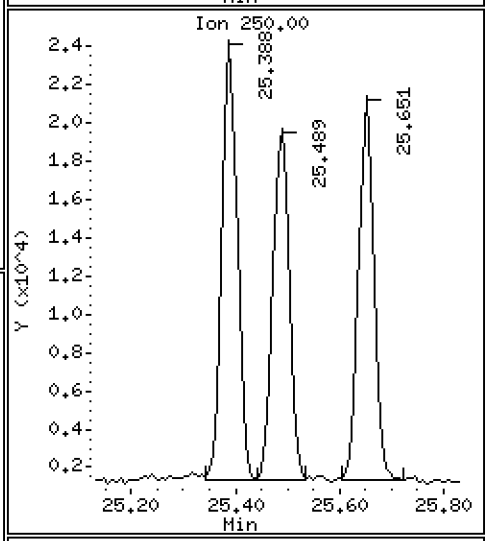


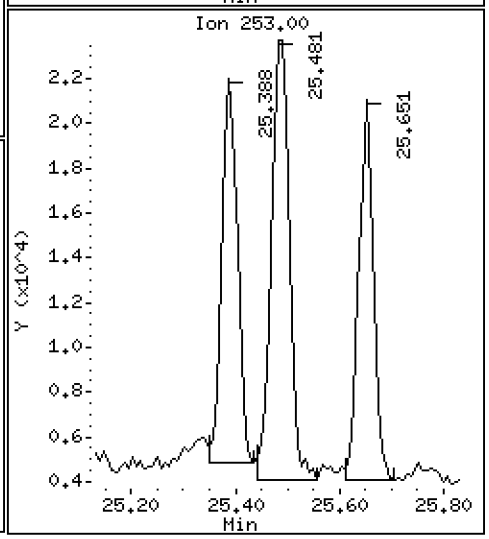












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

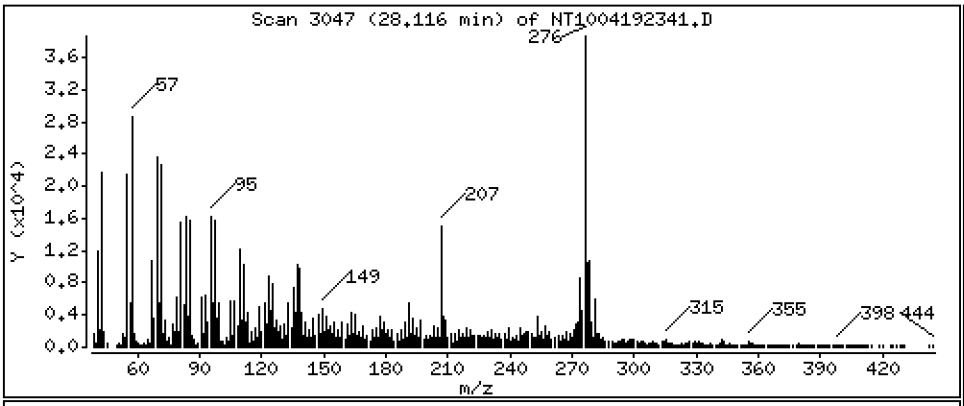
Operator: VTS

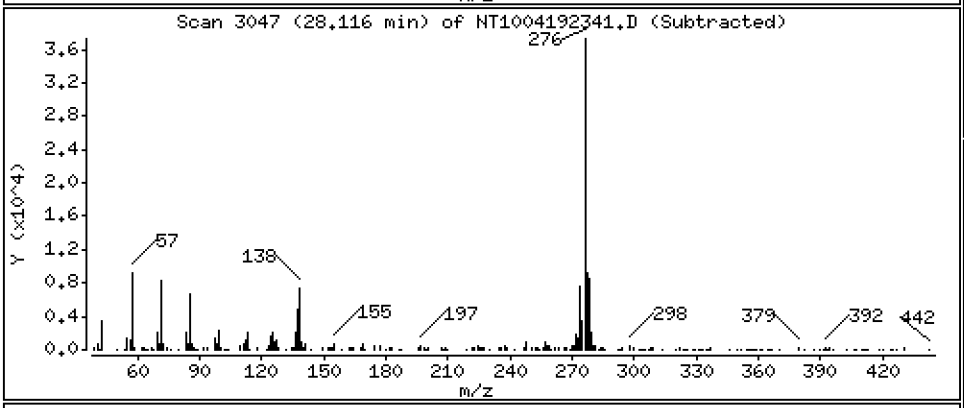
Column phase: ZB-5msi

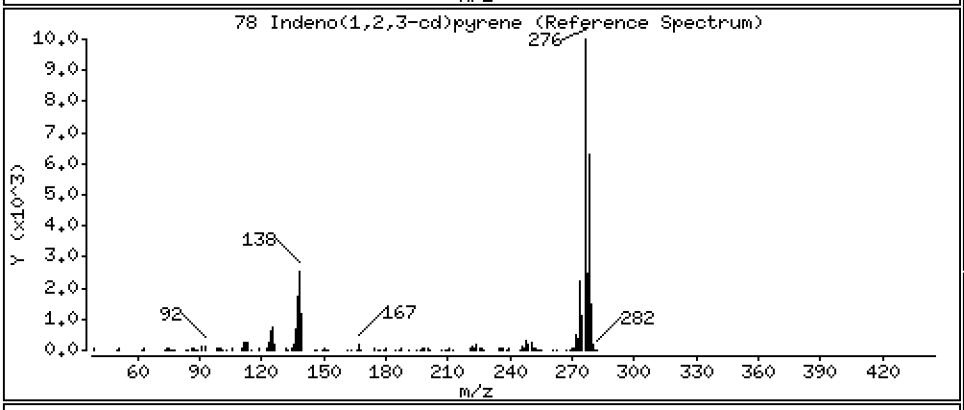
Column diameter: 0.25

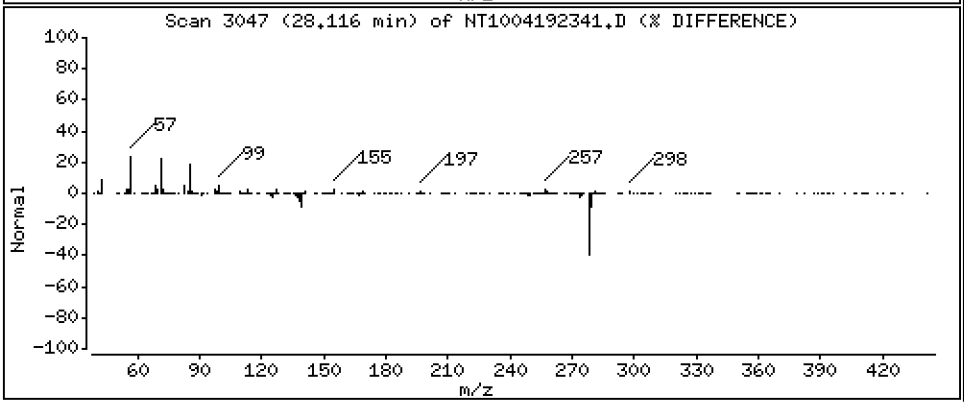
78 Indeno(1,2,3-cd)pyrene

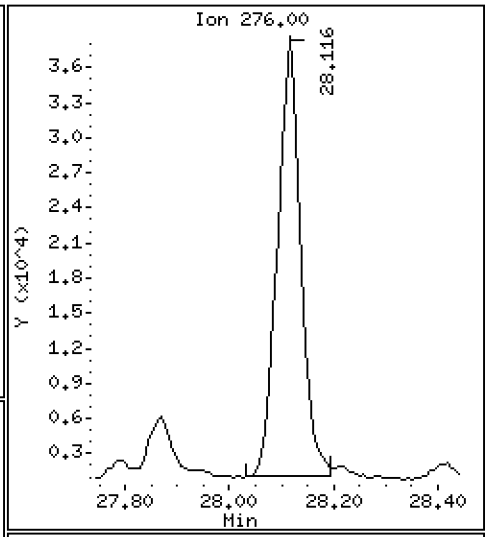
Concentration: 0.4903 ug/mL

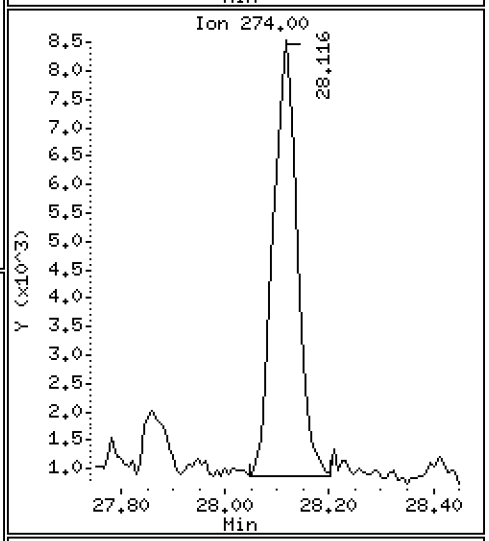


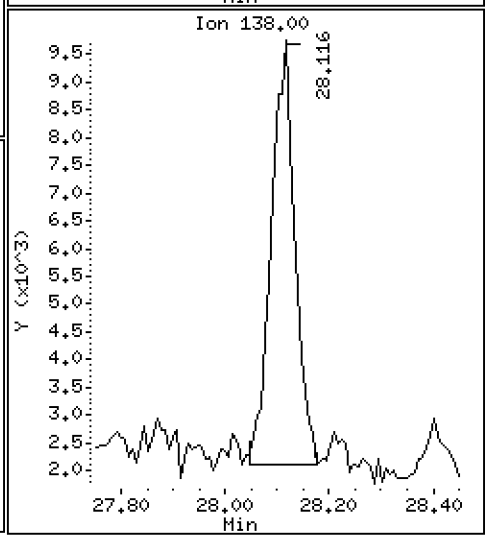












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

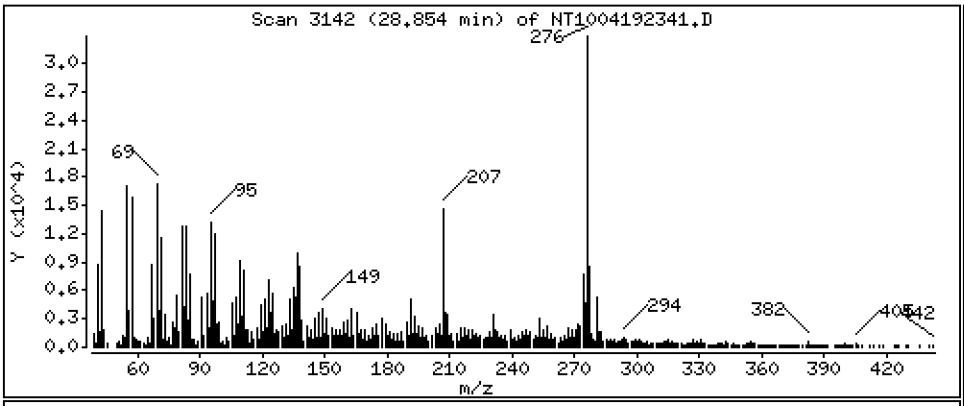
Operator: VTS

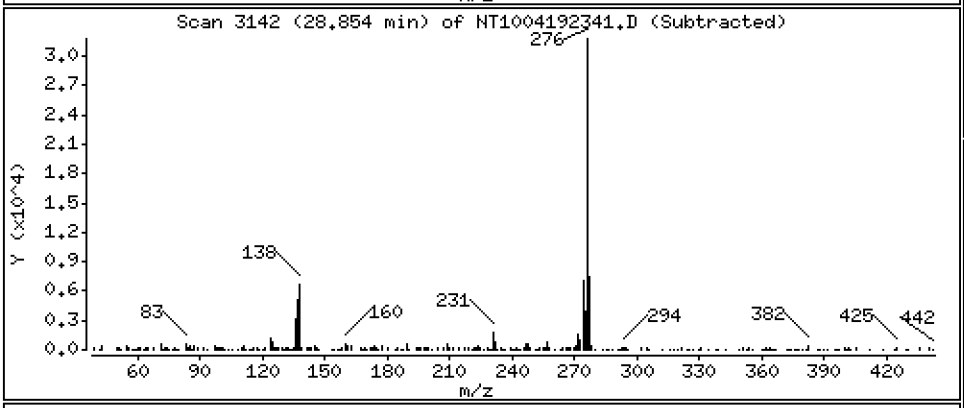
Column phase: ZB-5msi

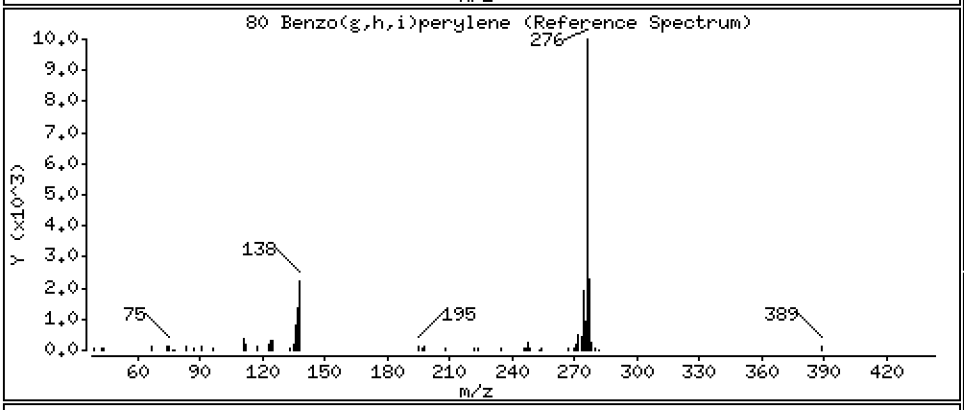
Column diameter: 0.25

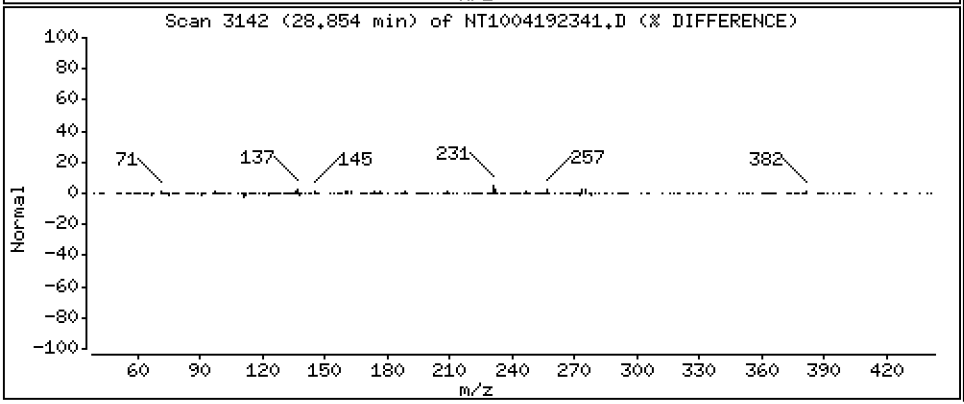
80 Benzo(g,h,i)perylene

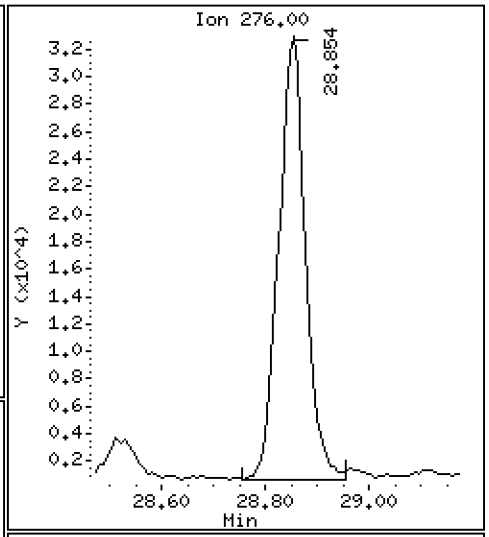
Concentration: 0.5611 ug/mL

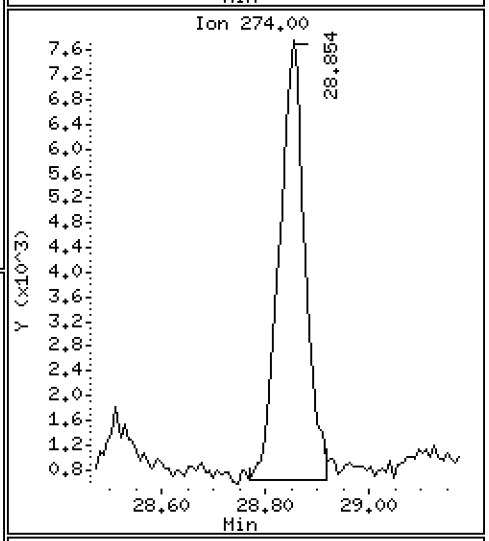


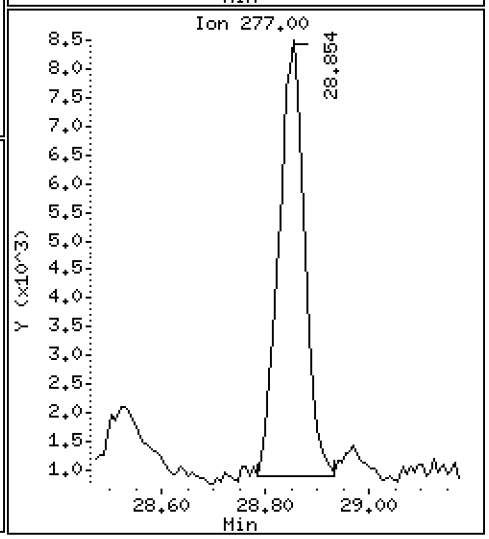












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

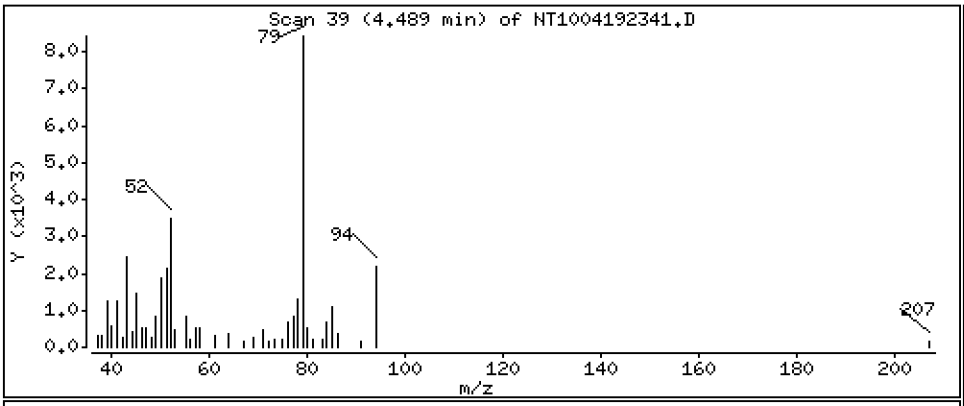
Operator: VTS

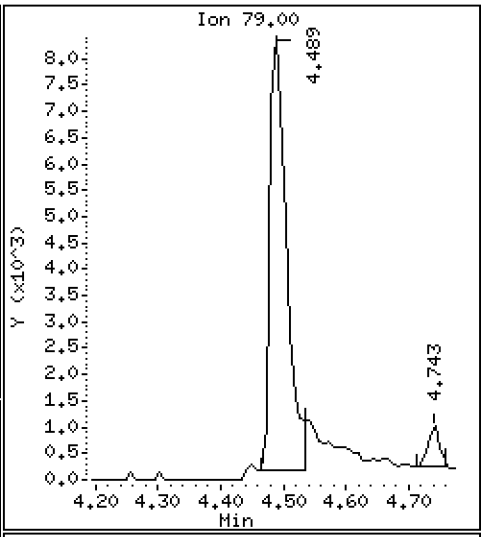
Column phase: ZB-5msi

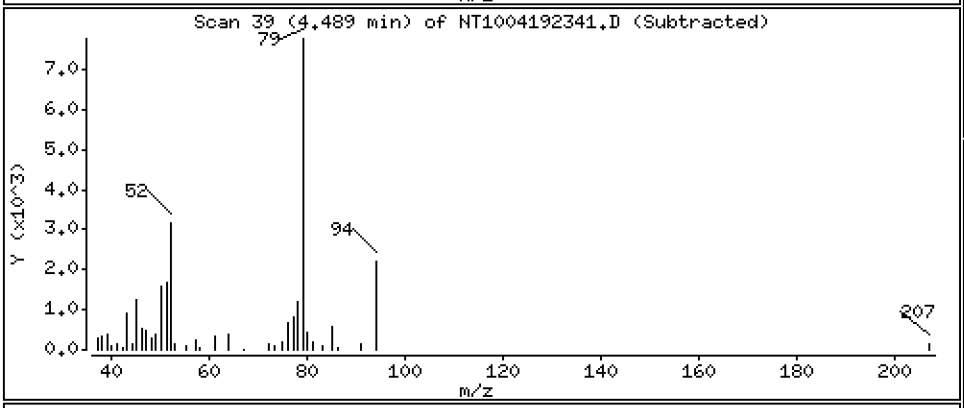
Column diameter: 0.25

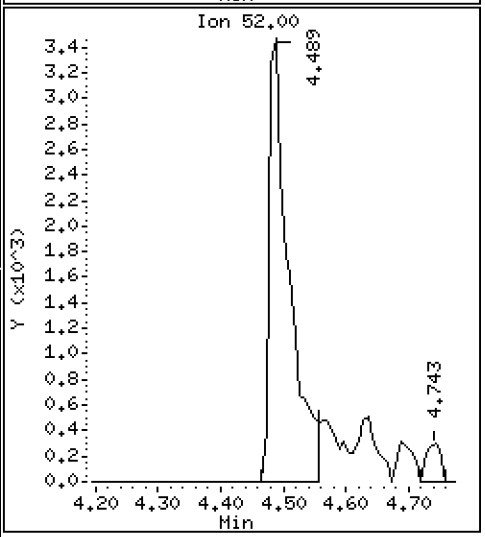
103 Pyridine

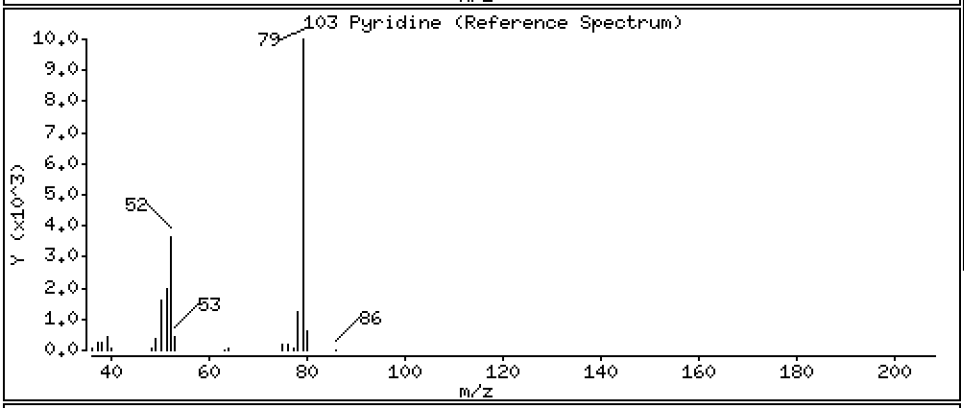
Concentration: 0.3790 ug/mL

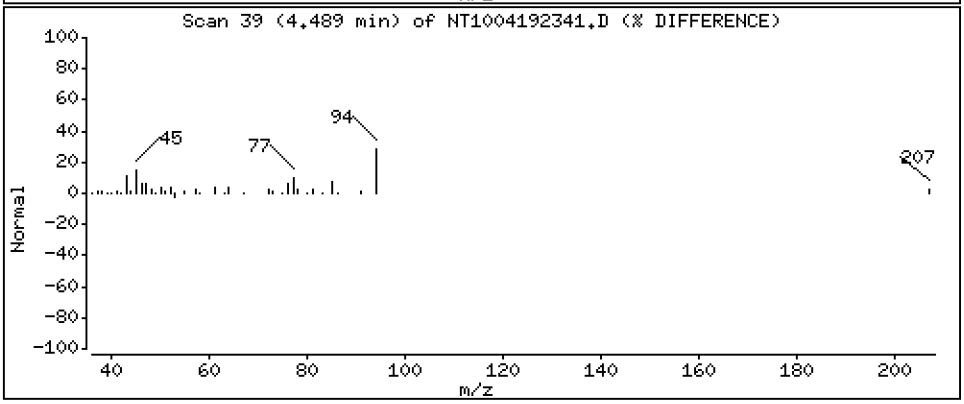












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

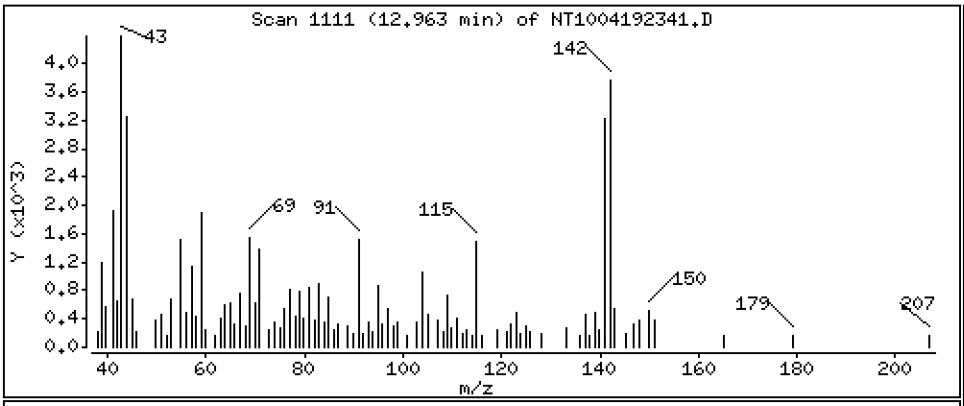
Operator: VTS

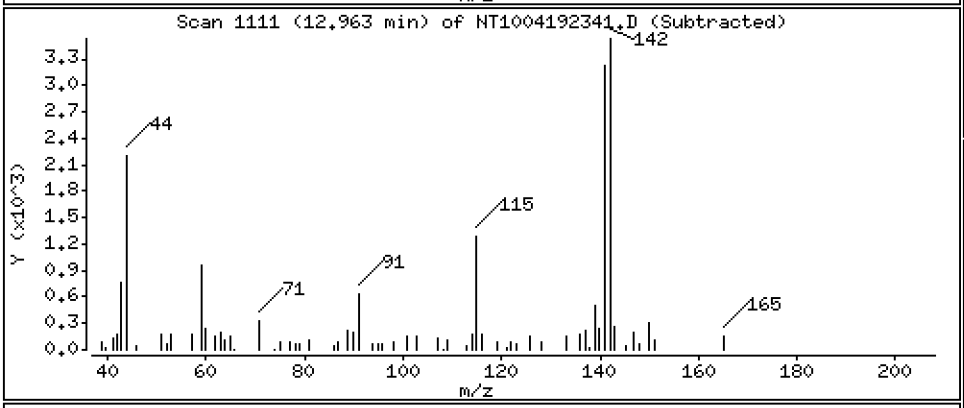
Column phase: ZB-5msi

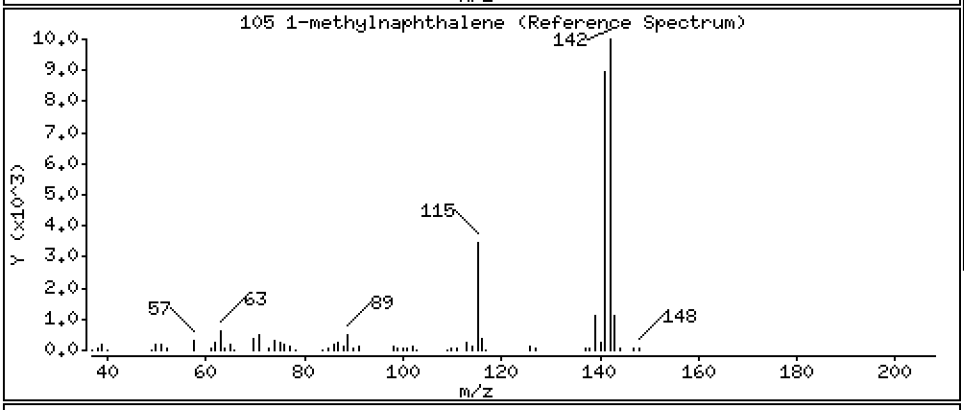
Column diameter: 0.25

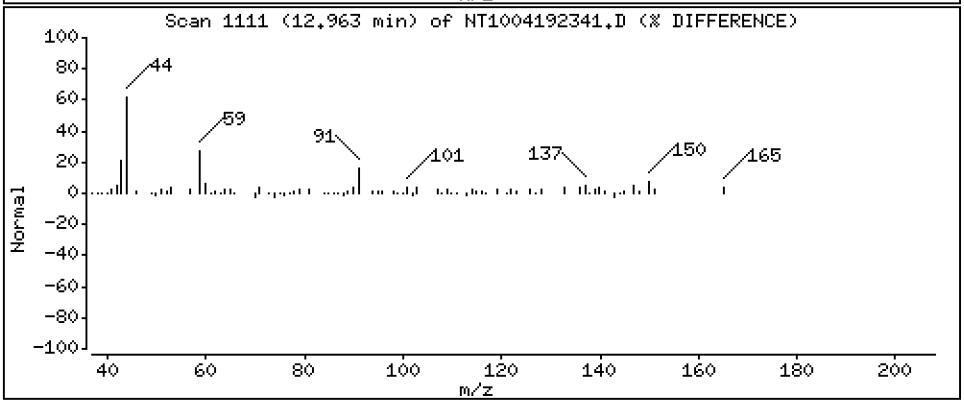
105 1-methylnaphthalene

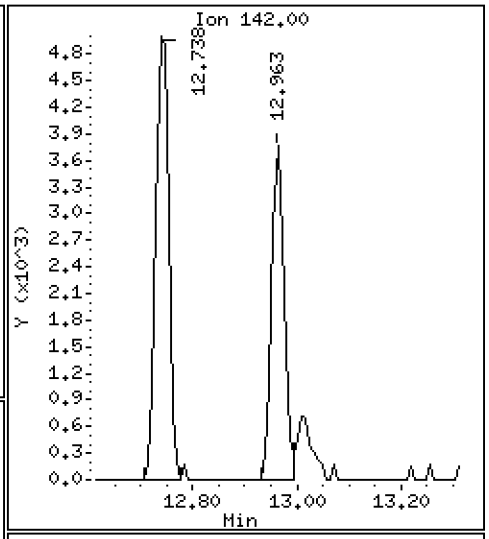
Concentration: 0.06669 ug/mL

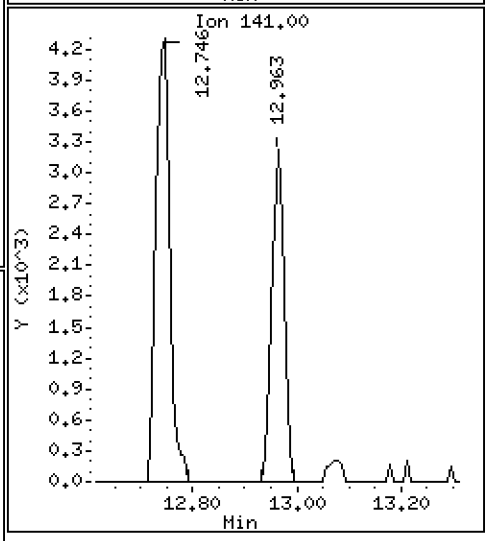












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192341.D

Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

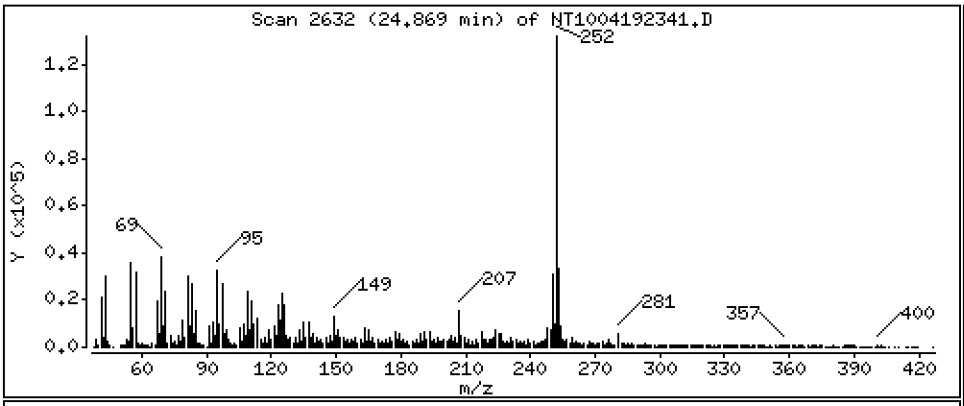
Operator: VTS

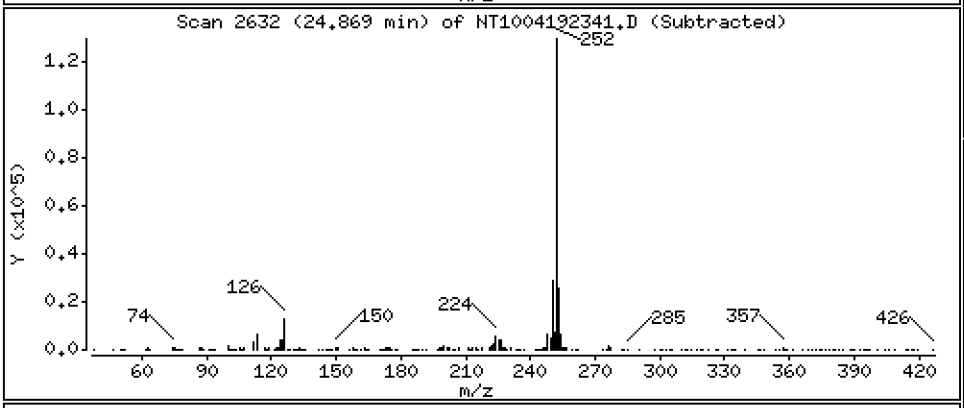
Column phase: ZB-5msi

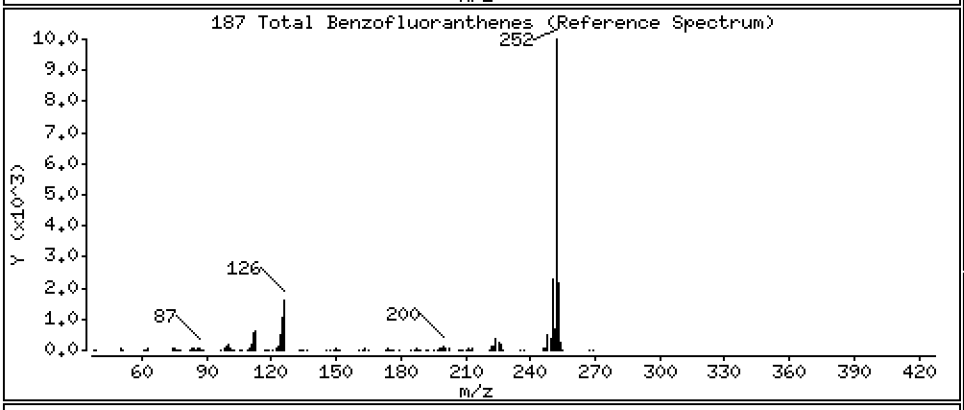
Column diameter: 0.25

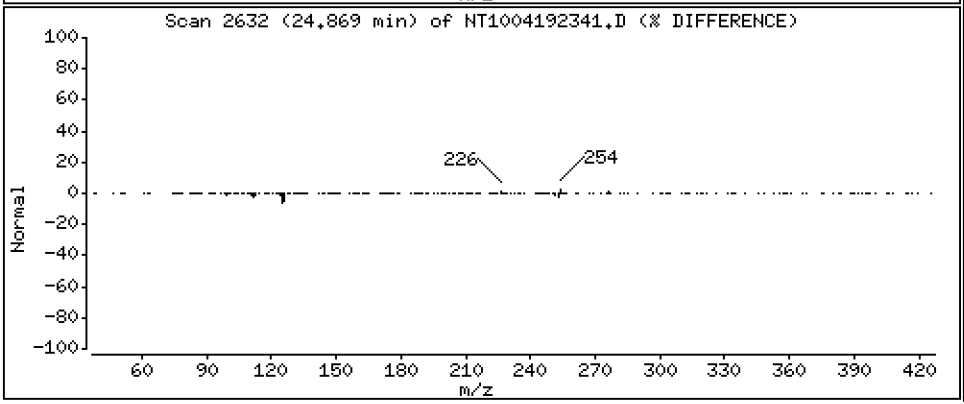
187 Total Benzofluoranthenes

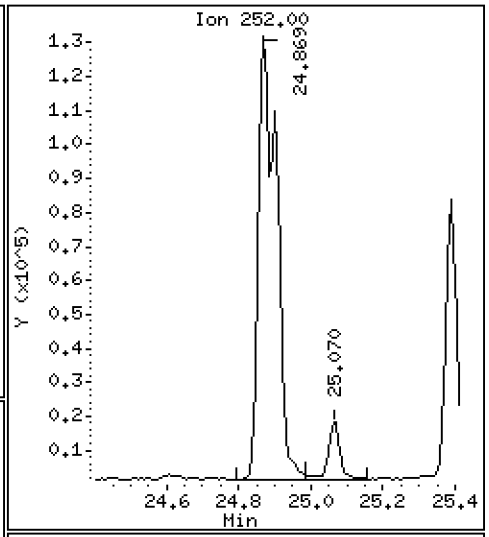
Concentration: 2.264 ug/mL

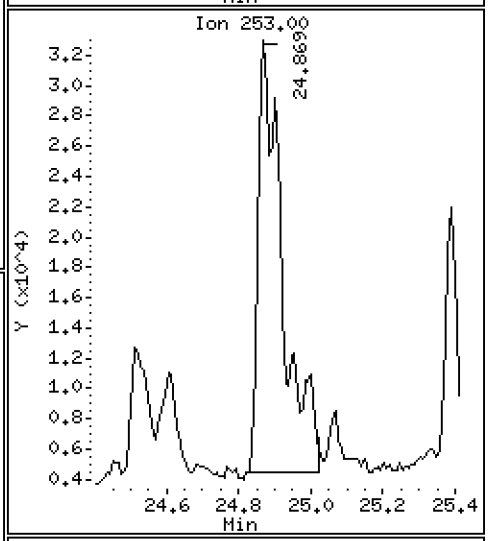


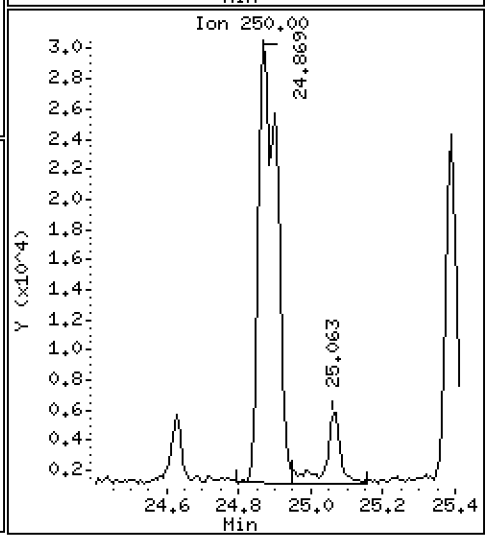












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230419B.b\NT1004192341.D
Lab Smp Id: 23C0752-01
Inj Date : 20-APR-2023 12:45
Operator : VTS Inst ID: nt10.i
Smp Info : 23C0752-01
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Meth Date : 21-Apr-2023 11:46 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.620	6.612	(0.750)	169274	4.06914	4.069
$	2 Phenol-d5	99	8.219	8.219	(0.931)	238253	4.36582	4.366
	3 Phenol	94	8.242	8.235	(0.933)	15995	0.28205	0.2821
$	5 2-Chlorophenol-d4	132	8.474	8.474	(0.960)	213333	4.57788	4.578
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	8.830	8.830	(1.000)	137559	4.00000	
	9 1,4-Dichlorobenzene	146	8.861	8.861	(1.004)	649	0.01309	0.01309
$	10 1,2-Dichlorobenzene-d4	152	9.187	9.187	(1.040)	95178	2.84397	2.844
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	9.110	9.110	(1.032)	9550	0.35879	0.3588
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	9.350	9.343	(1.059)	1121	0.02712	0.02712
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	9.622	9.622	(1.090)	3210	0.07370	0.07370
$	18 Nitrobenzene-d5	82	9.925	9.925	(0.878)	149014	2.86402	2.864
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	10.787	10.897	(0.954)	16466	0.63158	0.6316
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.307	11.307	(1.000)	515471	4.00000	
	28 Naphthalene	128	11.345	11.353	(1.003)	17826	0.13054	0.1305
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	12.738	12.746	(1.127)	8359	0.08482	0.08482
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.527	13.527	(0.907)	357531	2.96592	2.966
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	14.433	14.441	(0.968)	3749	0.03787	0.03787
	40	Acenaphthylene	152	14.595	14.603	(0.979)	12725	0.08366	0.08366
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	14.913	14.913	(1.000)	304739	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	14.974	14.982	(1.004)	9614	0.10232	0.1023
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	15.307	15.307	(1.026)	13820	0.09974	0.09974
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	15.894	15.902	(1.066)	6109	0.06289	0.06289
	49	Fluorene	166	16.018	16.018	(1.074)	11883	0.10901	0.1090
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	16.550	16.558	(1.110)	82104	5.76969	5.770
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	17.694	17.694	(0.986)	1149	0.05839	0.05839
*	59	Phenanthrene-d10	188	17.949	17.949	(1.000)	567333	4.00000	
	60	Phenanthrene	178	17.995	17.996	(1.003)	82358	0.53237	0.5324
	61	Anthracene	178	18.088	18.089	(1.008)	51772	0.34888	0.3489
	62	Carbazole	167	18.429	18.429	(1.027)	14691	0.11048	0.1105
	63	Di-n-butylphthalate	149	19.264	19.265	(1.073)	9278	0.05189	0.05189
	64	Fluoranthene	202	20.417	20.402	(0.886)	382887	1.69003	1.690
	65	Pyrene	202	20.835	20.827	(0.904)	369654	1.59055	1.591
$	66	Terphenyl-d14	244	21.137	21.137	(0.917)	481955	2.76140	2.761
	67	Butylbenzylphthalate	149	22.089	22.089	(0.958)	9065	0.11112	0.1111
	68	Benzo(a)anthracene	228	23.018	23.019	(0.999)	164177	0.82495	0.8249
*	69	Chrysene-d12	240	23.049	23.042	(1.000)	563830	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.088	23.088	(1.002)	212620	1.09354	1.094
	72	bis(2-Ethylhexyl)phthalate	149	23.134	23.135	(0.959)	122496	0.96723	0.9672
*	134	Di-n-octylphthalate-d4	153	24.125	24.126	(1.000)	865485	4.00000	
	73	Di-n-octylphthalate	149	Compound Not Detected.					
	74	Benzo(b)fluoranthene	252	24.869	24.861	(0.972)	257878	1.21950	1.220
	75	Benzo(k)fluoranthene	252	24.900	24.908	(0.973)	248405	1.15687	1.157
	76	Benzo(a)pyrene	252	25.488	25.481	(0.996)	174271	0.92178	0.9218
*	77	Perylene-d12	264	25.596	25.589	(1.000)	652355	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.115	28.092	(1.098)	117938	0.49033	0.4903
	79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80	Benzo(g,h,i)perylene	276	28.853	28.822	(1.127)	116802	0.56112	0.5611
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	4.488	4.426	(0.508)	15448	0.37901	0.3790
	105	1-methylnaphthalene	142	12.962	12.962	(1.146)	6021	0.06669	0.06669
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	24.869	24.908	(0.972)	462288	2.26422	2.264
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192341.D
Lab Smp Id: 23C0752-01
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Misc Info:

Calibration Date: 20-APR-2023
Calibration Time: 07:41
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	129725	64863	259450	137559	6.04
27 Naphthalene-d8	475671	237836	951342	515471	8.37
42 Acenaphthene-d10	277889	138945	555778	304739	9.66
59 Phenanthrene-d10	485346	242673	970692	567333	16.89
69 Chrysene-d12	453075	226538	906150	563830	24.45
134 Di-n-octylphthala	697265	348633	1394530	865485	24.13
77 Perylene-d12	538138	269069	1076276	652355	21.22

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.83	8.33	9.33	8.83	-0.00
27 Naphthalene-d8	11.31	10.81	11.81	11.31	-0.00
42 Acenaphthene-d10	14.91	14.41	15.41	14.91	-0.00
59 Phenanthrene-d10	17.95	17.45	18.45	17.95	-0.00
69 Chrysene-d12	23.04	22.54	23.54	23.05	0.03
134 Di-n-octylphthala	24.13	23.63	24.63	24.13	-0.00
77 Perylene-d12	25.59	25.09	26.09	25.60	0.03

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

REVIEW SUMMARY FOR FILE - NT1004192341.D

Lab ID: 23C0752-01
nt10.i, 20230419B.b\ABN.m,   20-APR-2023 12:45

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.954	0.964	-0.0098	Benzoic acid
0.508	0.501	0.0070	Pyridine

RRT check based on Ccal File: NT1004192333.D

On Column LOD for nt10.i, 20230419B.b\ABN.m, ICAL.sub = 0.0000

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

LDW23-SS1125

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

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

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-02 A	SDG:	23C0752
Sampled:	03/30/23 11:10	Prepared:	04/03/23 11:31	File ID:	NT1004192342.D
% Solids:	49.66	Preparation:	EPA 3546 (Microwave)	Analyzed:	04/20/23 13:24
Batch:	BLD0008	Sequence:	SLD0293	Initial/Final:	20.18 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00046
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
108-95-2	Phenol	1	30.6		4.4	20.0
106-44-5	4-Methylphenol	1	8.2	J	7.4	20.0
91-20-3	Naphthalene	1	14.6	J	4.2	20.0
91-57-6	2-Methylnaphthalene	1	10.9	J	4.5	20.0
208-96-8	Acenaphthylene	1	9.3	J	6.2	20.0
131-11-3	Dimethylphthalate	1	4.8	J	4.4	20.0
83-32-9	Acenaphthene	1	8.1	J	5.2	20.0
132-64-9	Dibenzofuran	1	20.0	U	14.1	20.0
86-73-7	Fluorene	1	20.0	U	14.5	20.0
85-01-8	Phenanthrene	1	68.3		8.7	20.0
120-12-7	Anthracene	1	35.1		7.2	20.0
206-44-0	Fluoranthene	1	131	Q	6.1	20.0
129-00-0	Pyrene	1	165	Q	5.7	20.0
85-68-7	Butylbenzylphthalate	1	20.0	U	9.4	20.0
56-55-3	Benzo(a)anthracene	1	84.6		5.9	20.0
218-01-9	Chrysene	1	136		6.0	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	107		5.4	49.9
	Benzofluoranthenes, Total	1	275		10.0	39.9
50-32-8	Benzo(a)pyrene	1	111		4.2	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	56.1		14.6	20.0
53-70-3	Dibenzo(a,h)anthracene	1	20.0	U	17.2	20.0
191-24-2	Benzo(g,h,i)perylene	1	61.8	Q	13.6	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	748.40	462	61.8	27 - 120	
Phenol-d5	748.40	467	62.4	29 - 120	
2-Chlorophenol-d4	748.40	559	74.6	31 - 120	
1,2-Dichlorobenzene-d4	498.93	312	62.5	32 - 120	
Nitrobenzene-d5	498.93	308	61.8	30 - 120	
2-Fluorobiphenyl	498.93	327	65.5	35 - 120	

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1125

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

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

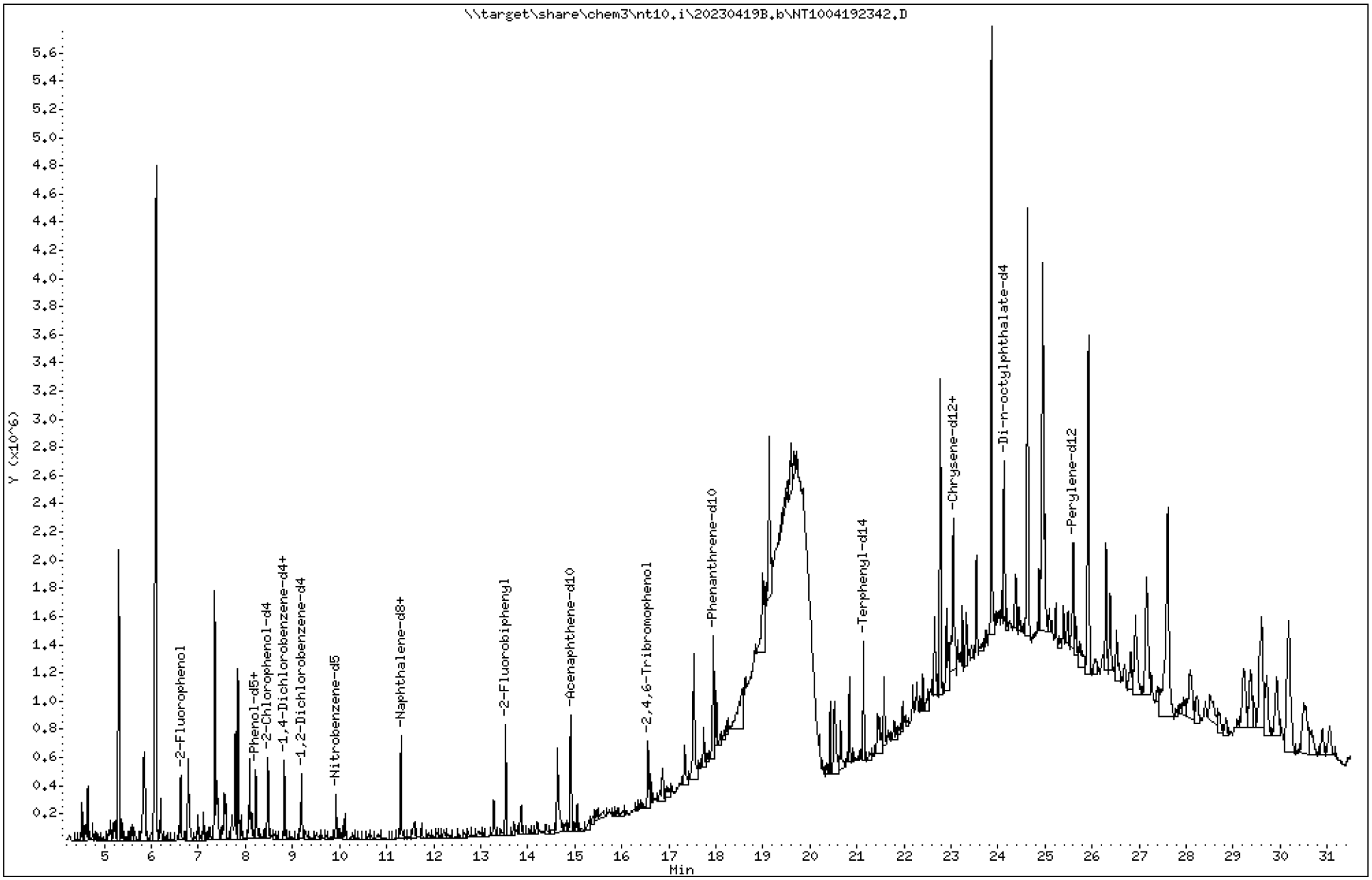
Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-02 A	SDG:	23C0752
Sampled:	03/30/23 11:10	Prepared:	04/03/23 11:31	File ID:	NT1004192342.D
% Solids:	49.66	Preparation:	EPA 3546 (Microwave)	Analyzed:	04/20/23 13:24
Batch:	BLD0008	Sequence:	SLD0293	Initial/Final:	20.18 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00046
Cleanups:	GPC				

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2,4,6-Tribromophenol	748.40	618	82.6	24 - 134	
p-Terphenyl-d14	498.93	298	59.7	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192342.D
Date : 20-APR-2023 13:24
Client ID:
Sample Info: 23C0752-02

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

Column phase: ZB-5msi



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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

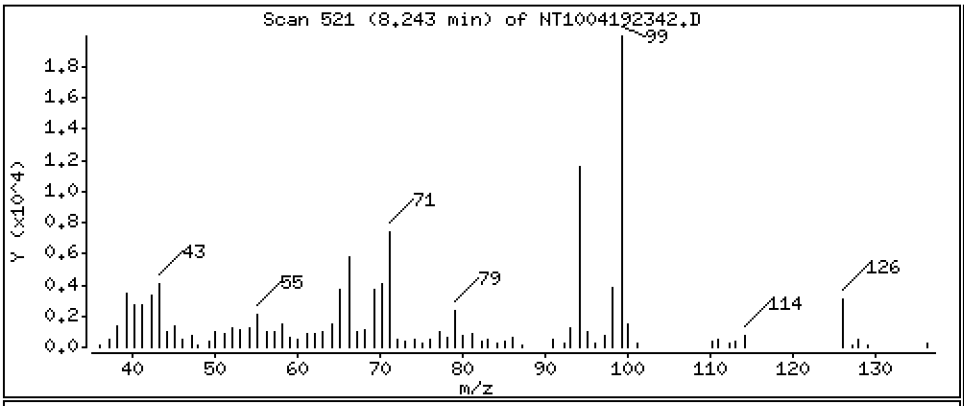
Operator: VTS

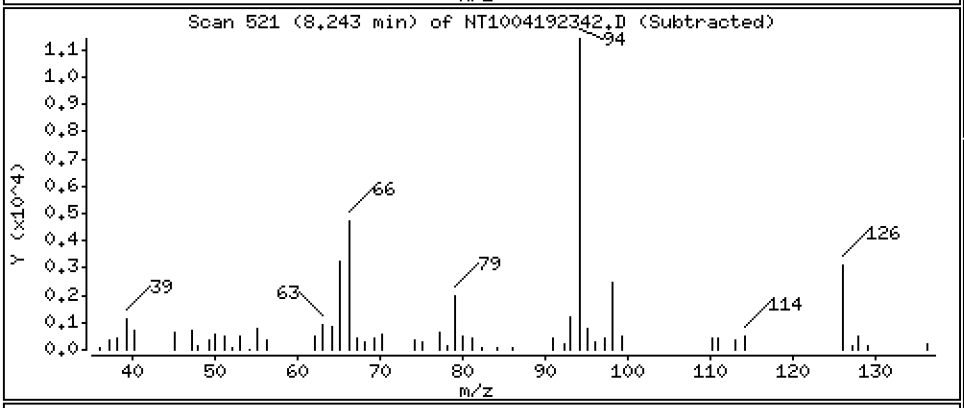
Column phase: ZB-5msi

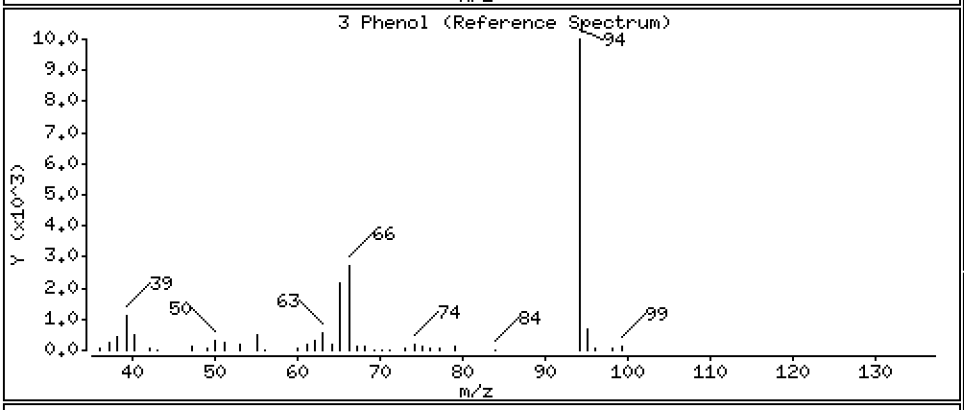
Column diameter: 0.25

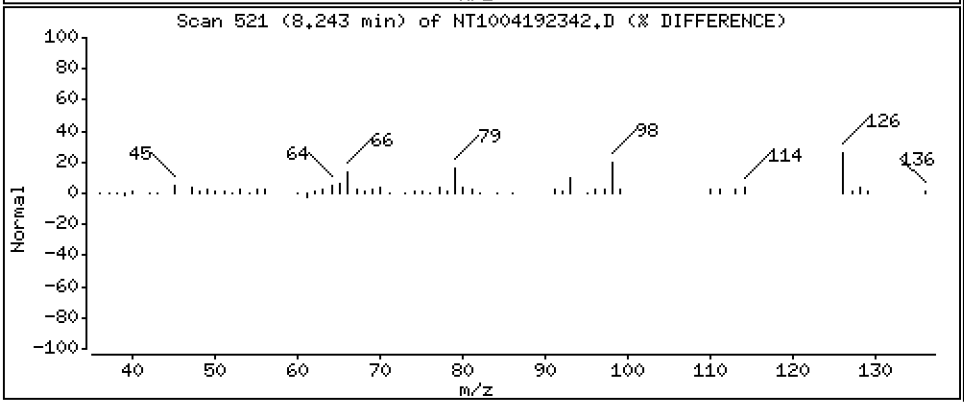
3 Phenol

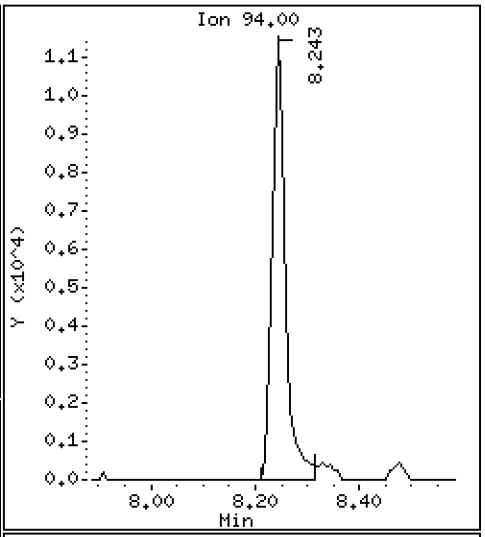
Concentration: 0.3068 ug/mL

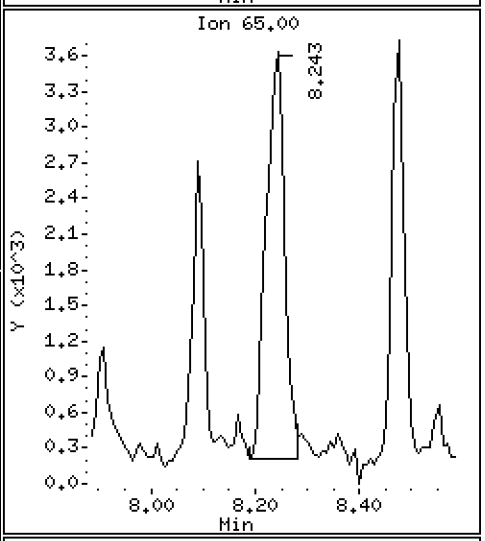


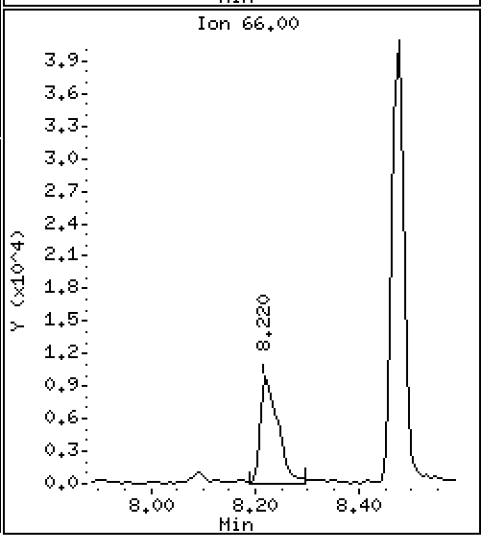












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

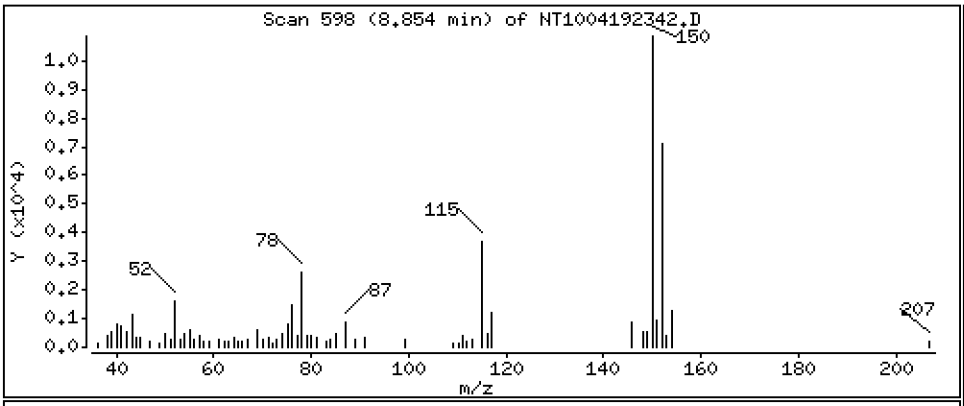
Operator: VTS

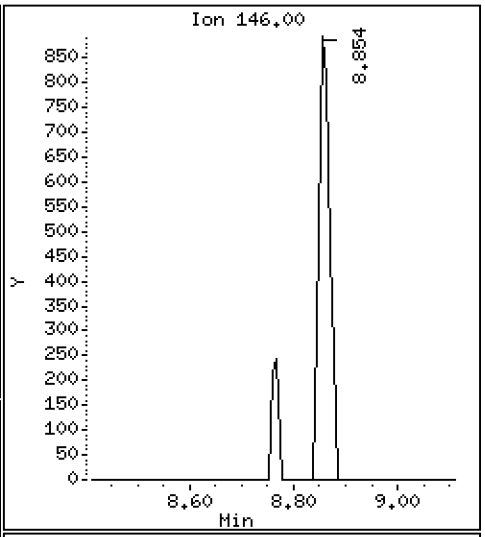
Column phase: ZB-5msi

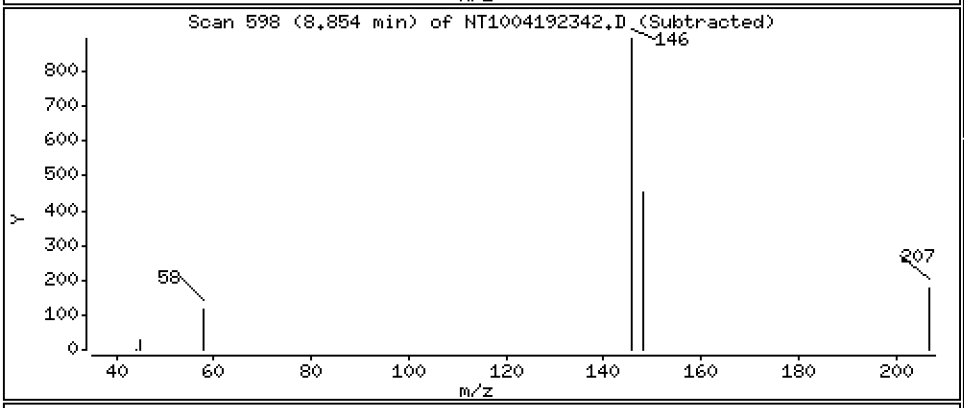
Column diameter: 0.25

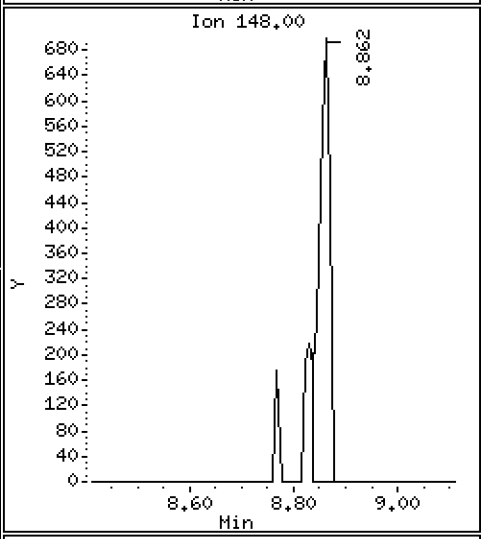
7 1,3-Dichlorobenzene

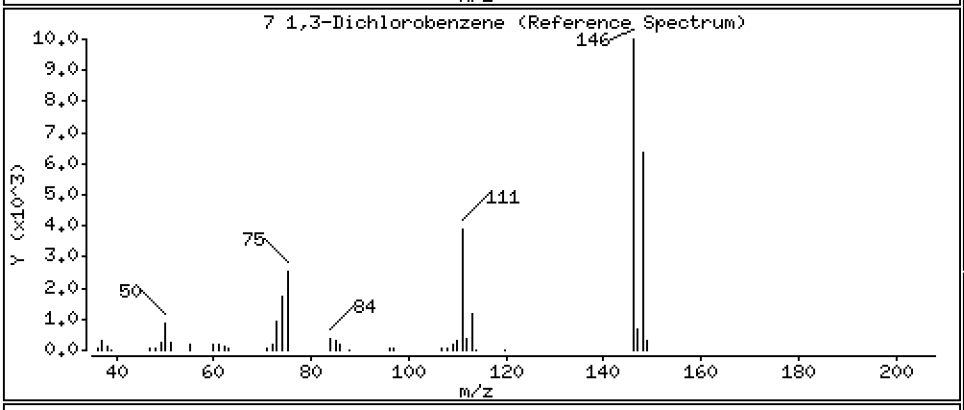
Concentration: 0.02155 ug/mL

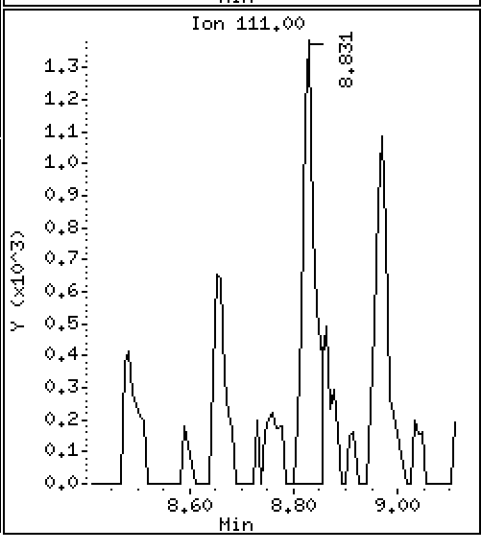


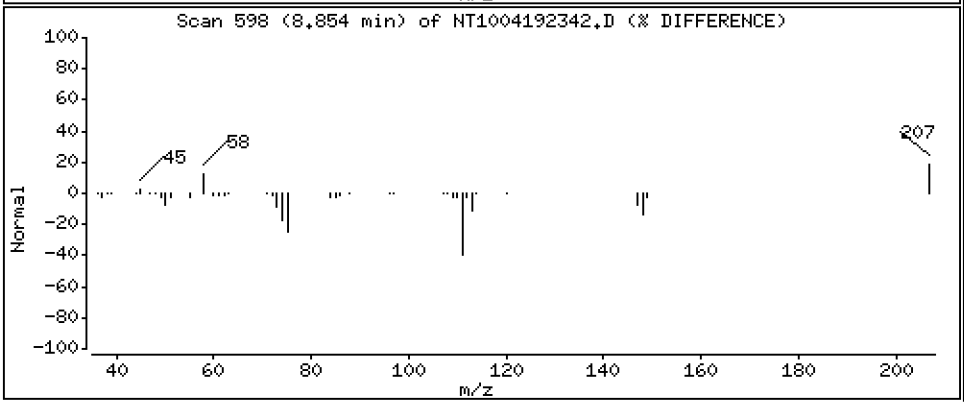












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

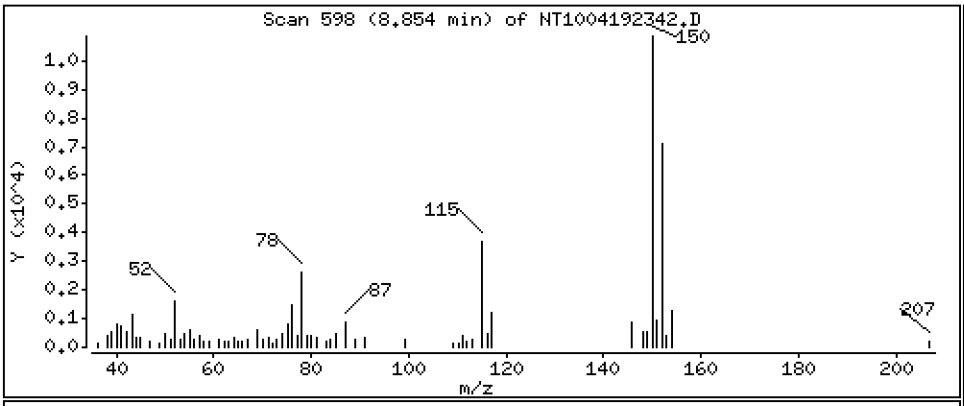
Operator: VTS

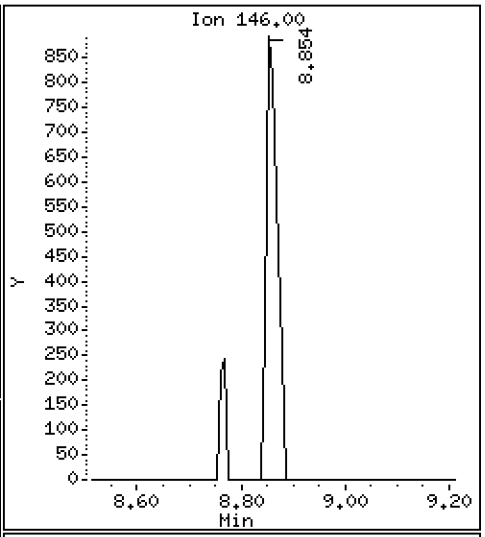
Column phase: ZB-5msi

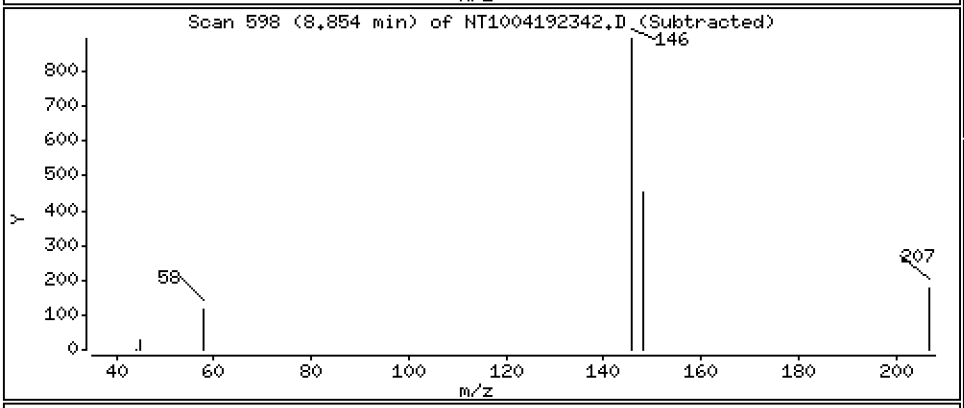
Column diameter: 0.25

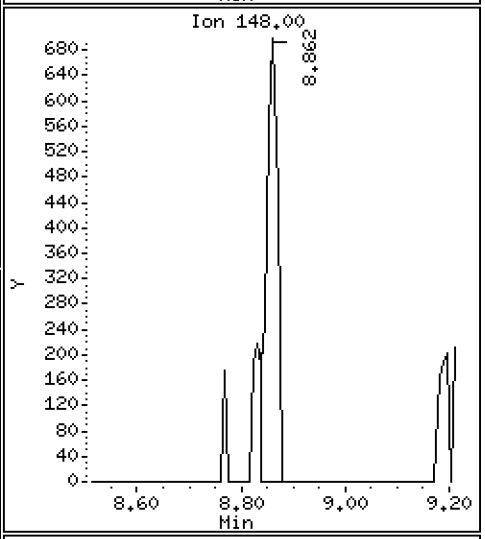
9 1,4-Dichlorobenzene

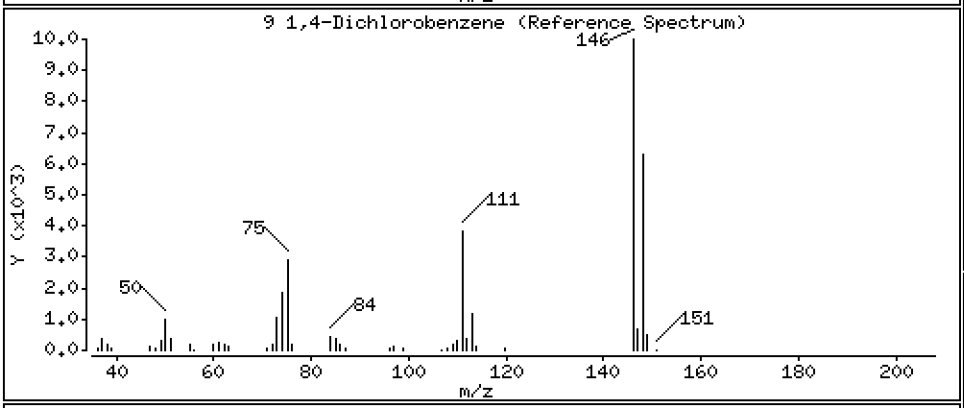
Concentration: 0.02231 ug/mL

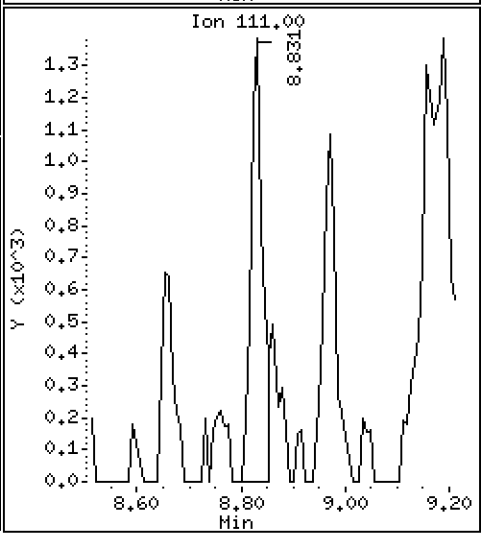


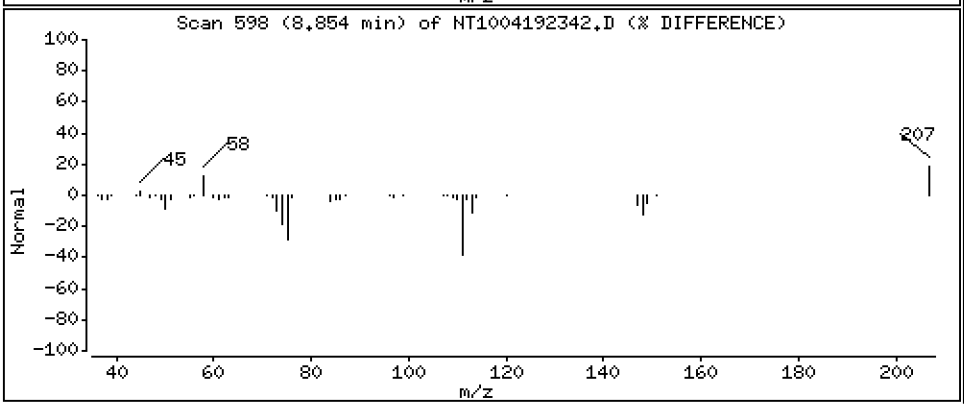












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

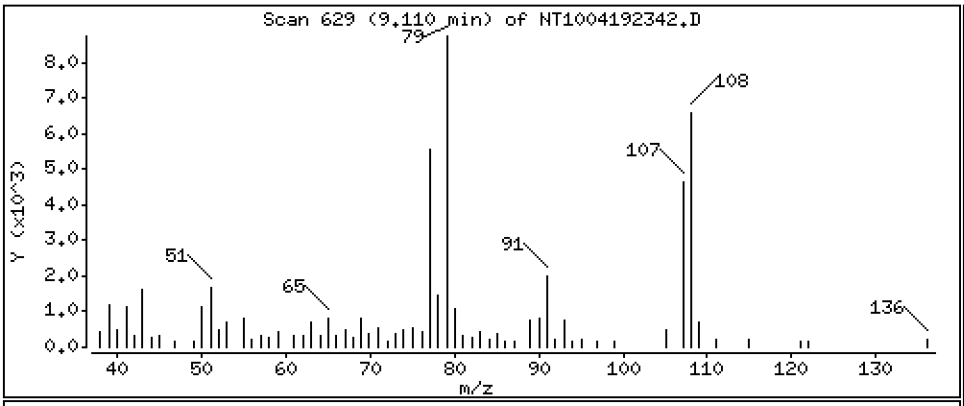
Operator: VTS

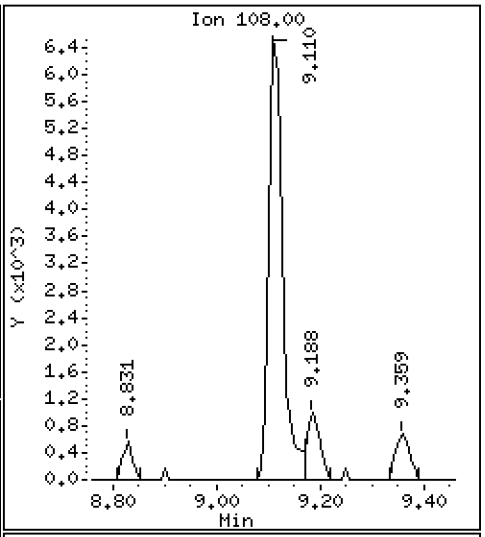
Column phase: ZB-5msi

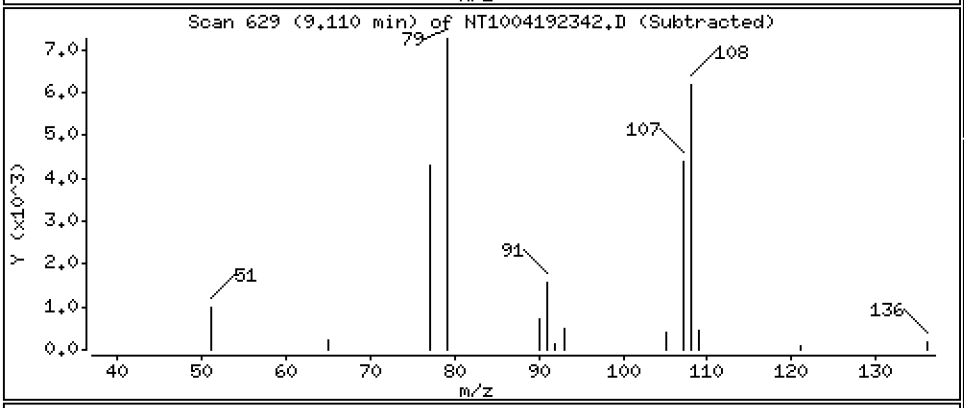
Column diameter: 0.25

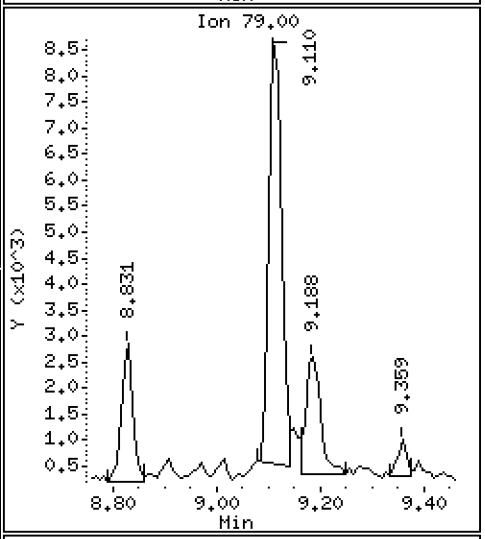
11 Benzyl alcohol

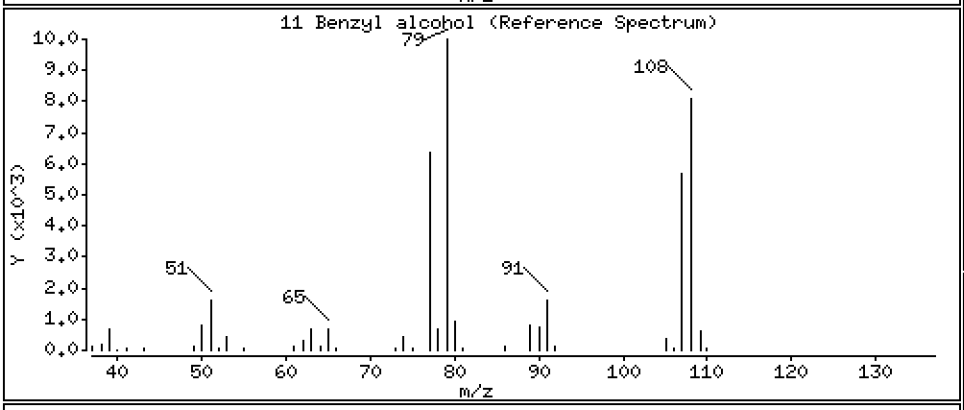
Concentration: 0.3827 ug/mL

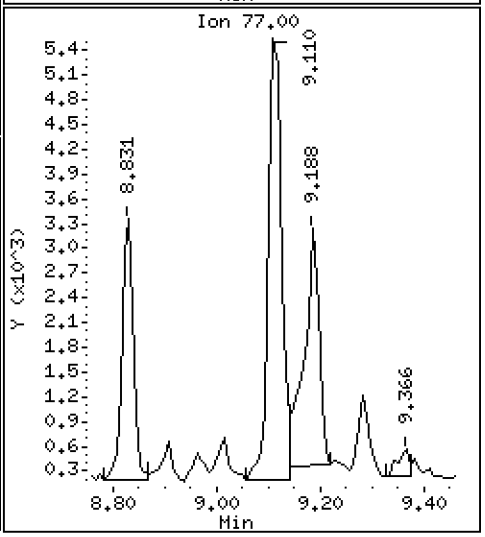


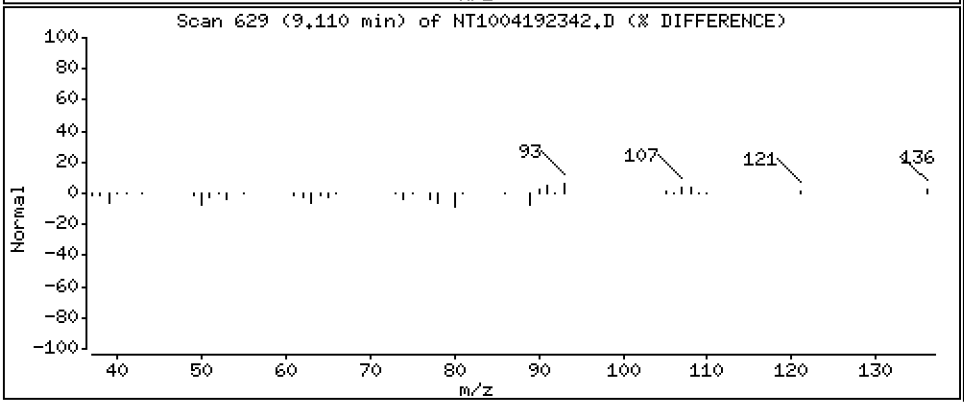












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192342.D

Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

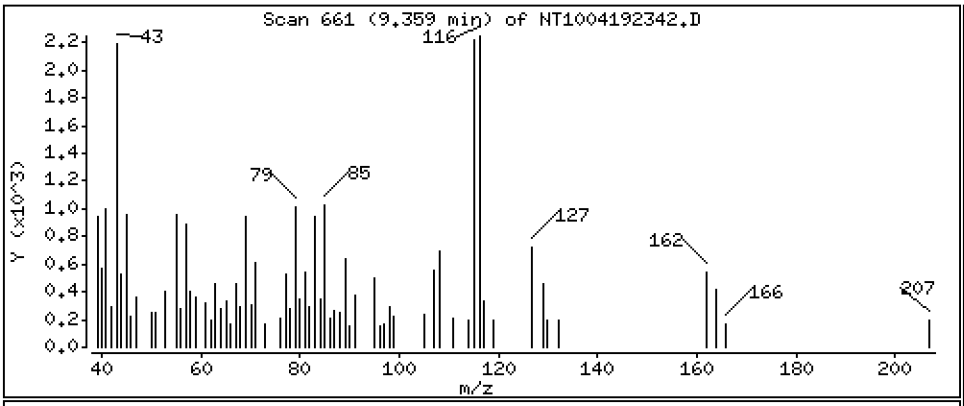
Operator: VTS

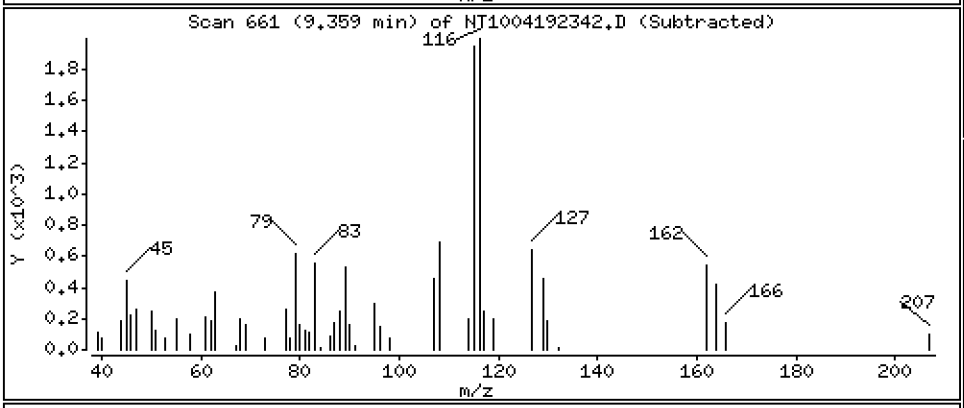
Column phase: ZB-5msi

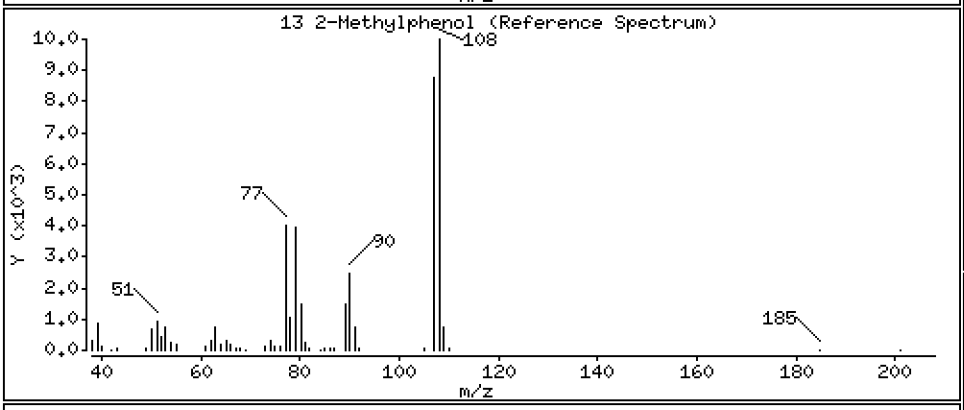
Column diameter: 0.25

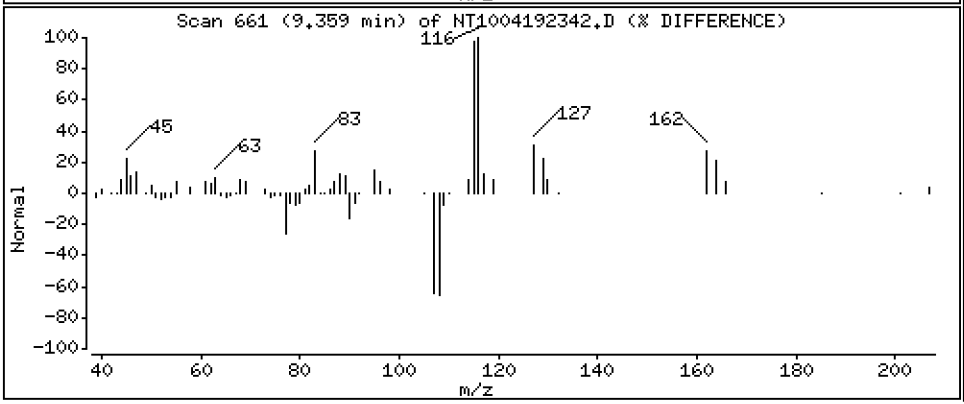
13 2-Methylphenol

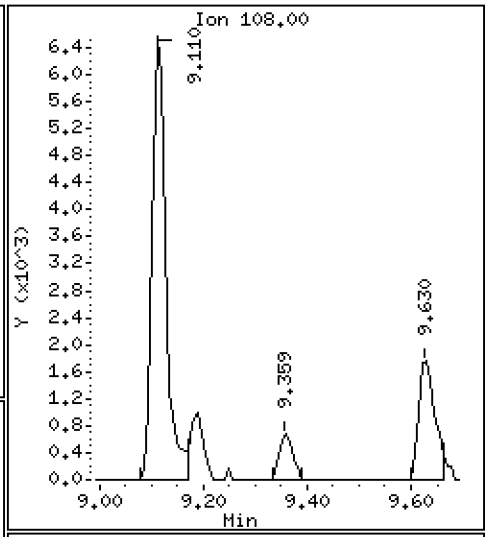
Concentration: 0.02656 ug/mL

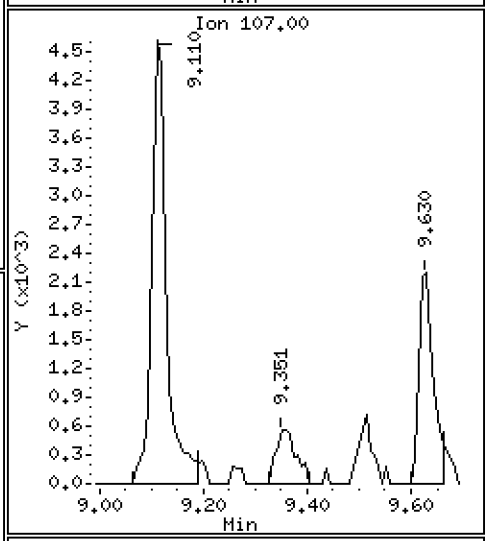


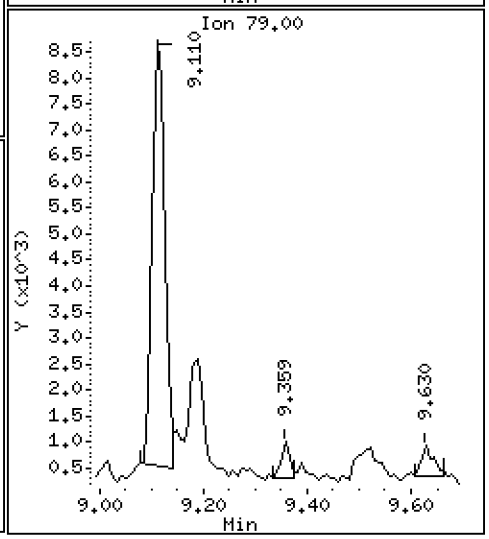












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192342.D

Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

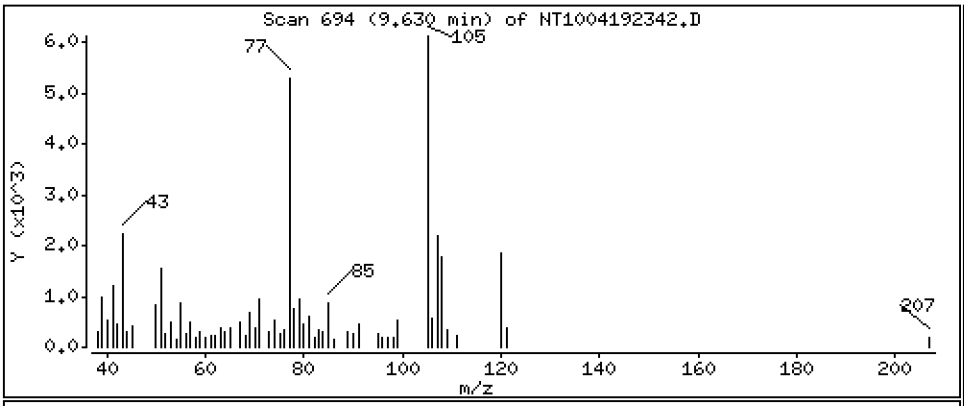
Operator: VTS

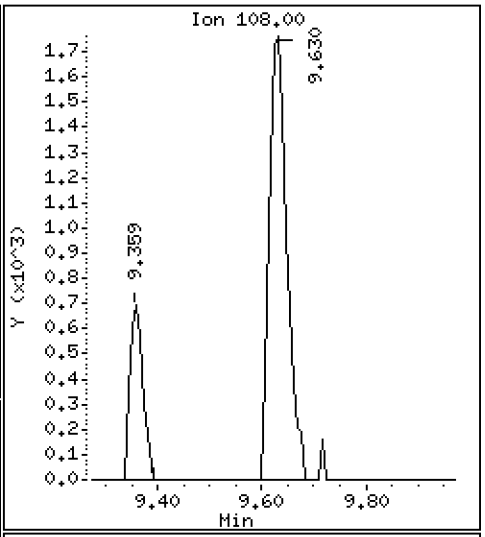
Column phase: ZB-5msi

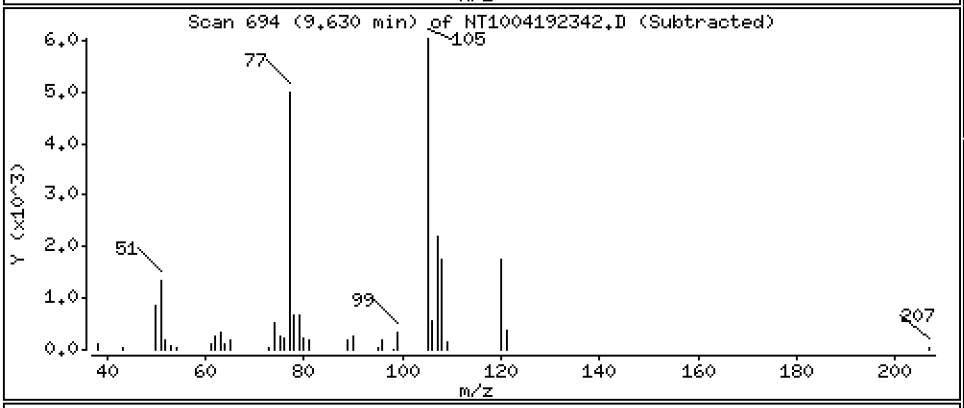
Column diameter: 0.25

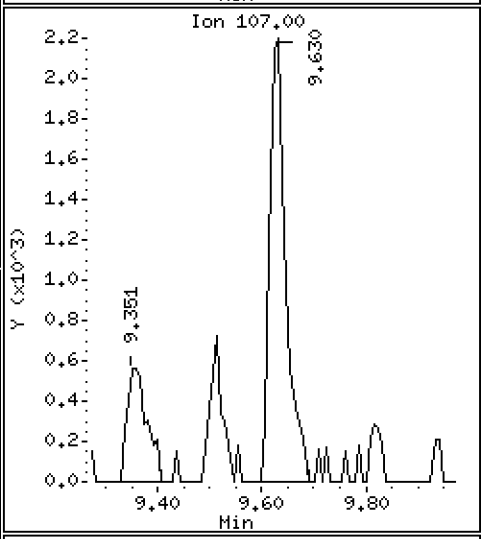
15 4-Methylphenol

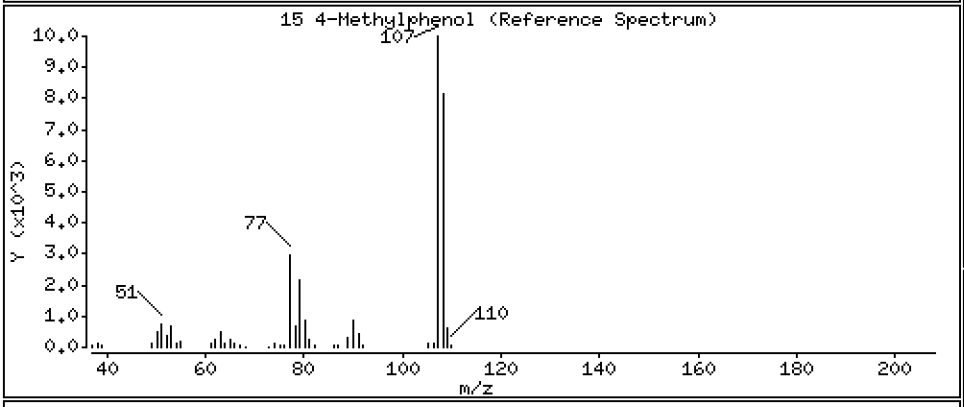
Concentration: 0.08194 ug/mL

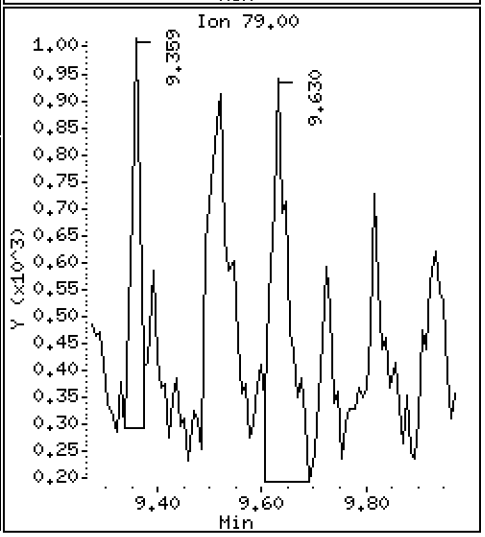


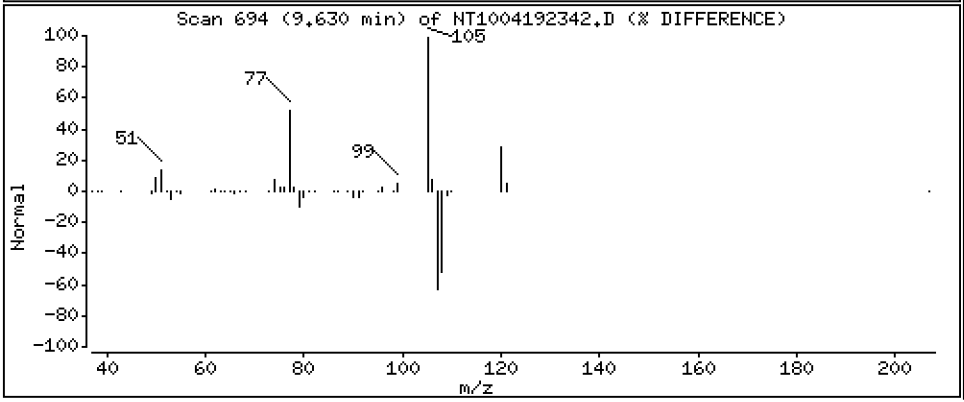












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192342.D

Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

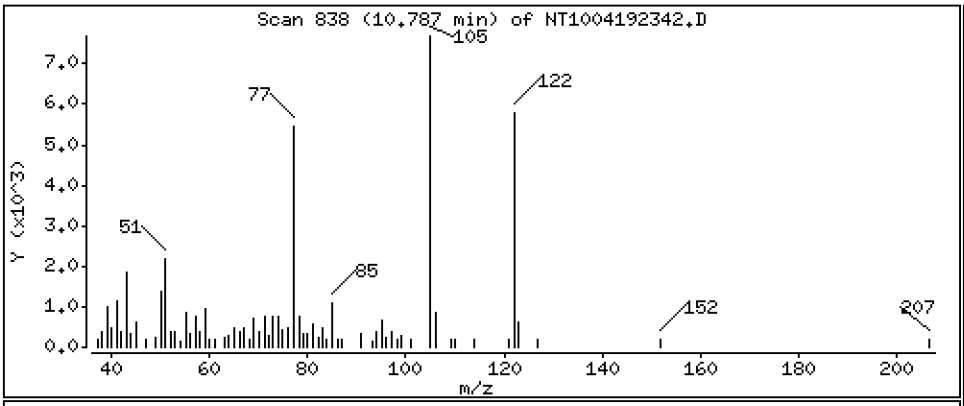
Operator: VTS

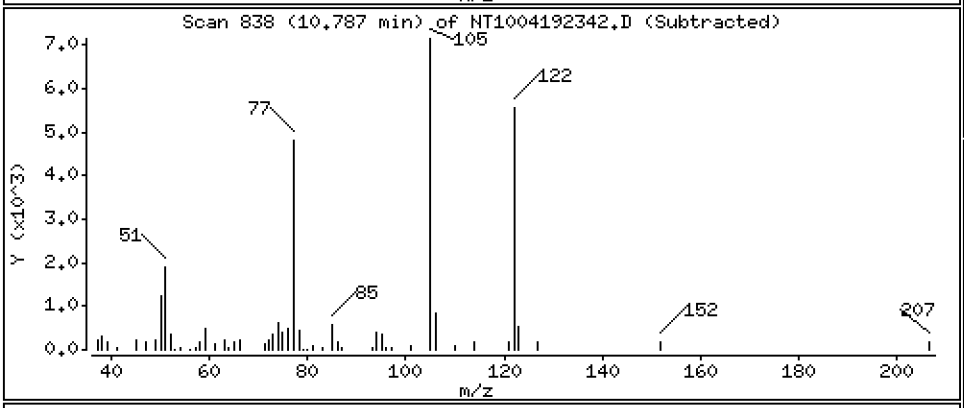
Column phase: ZB-5msi

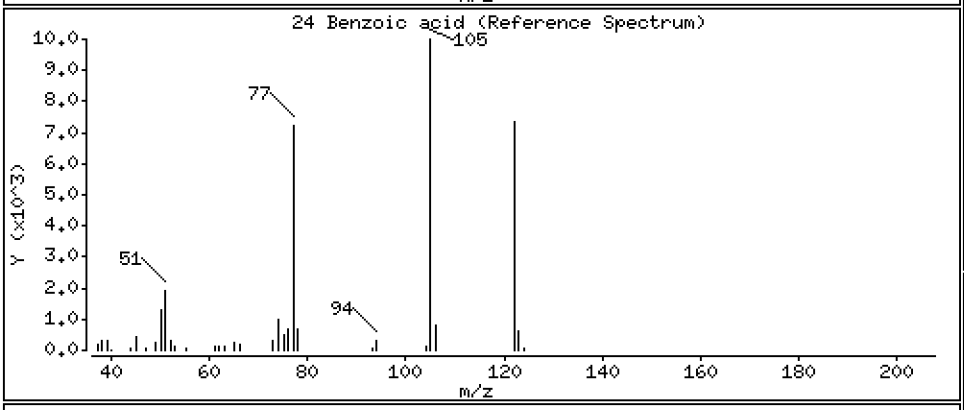
Column diameter: 0.25

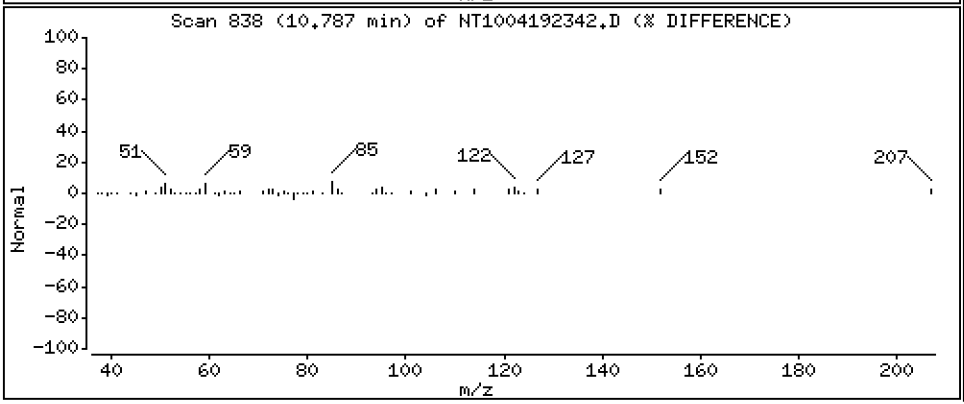
24 Benzoic acid

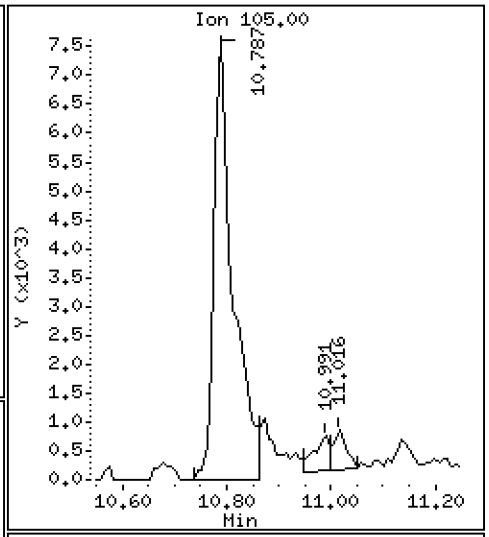
Concentration: 0.6741 ug/mL

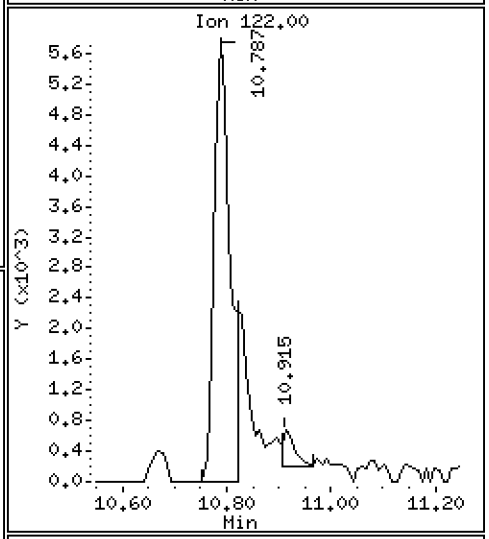


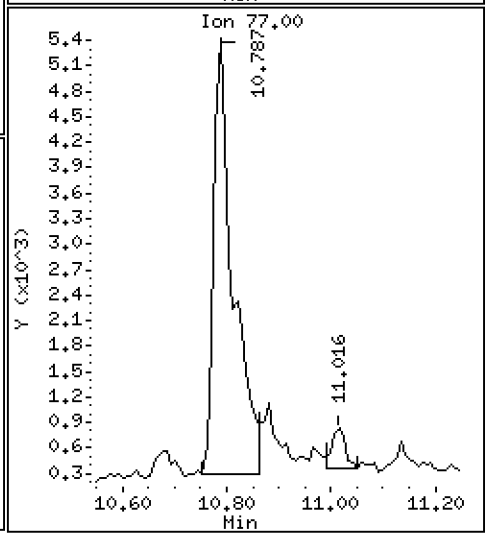












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

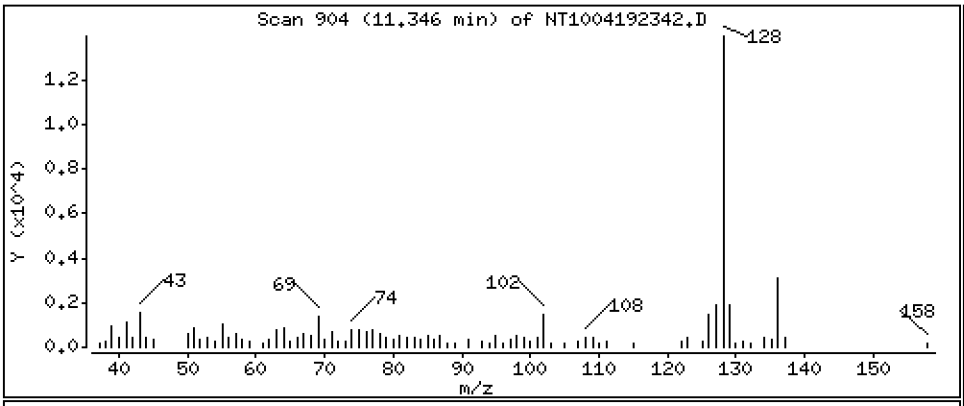
Operator: VTS

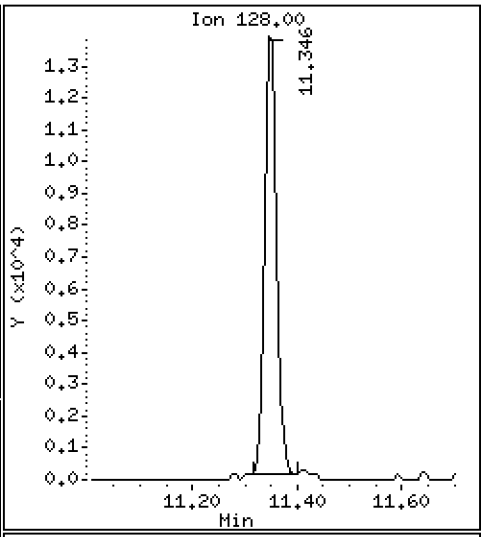
Column phase: ZB-5msi

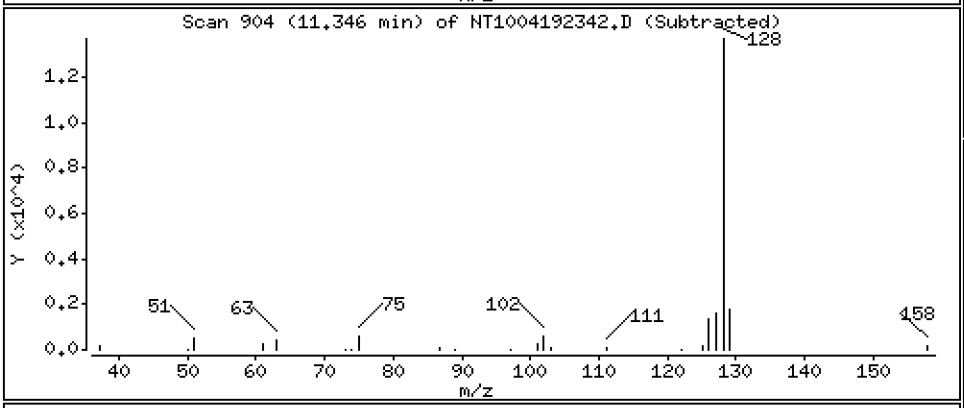
Column diameter: 0.25

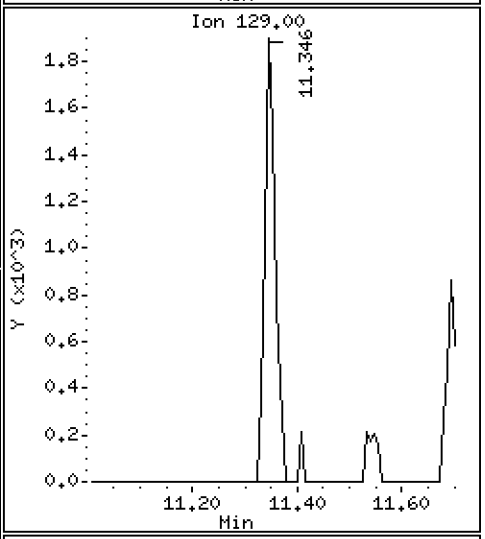
28 Naphthalene

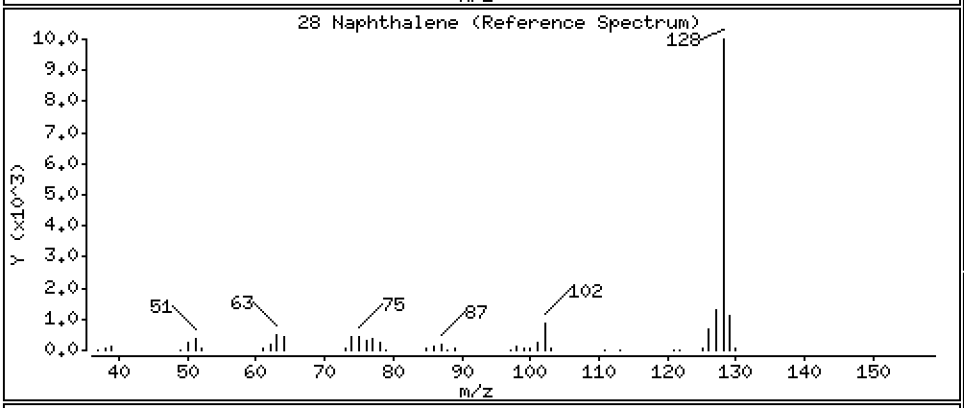
Concentration: 0.1465 ug/mL

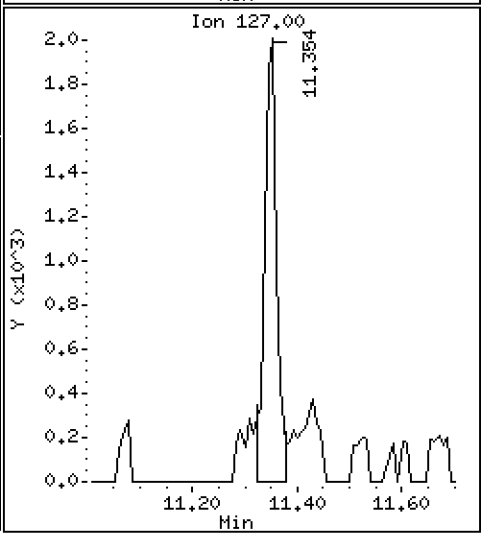


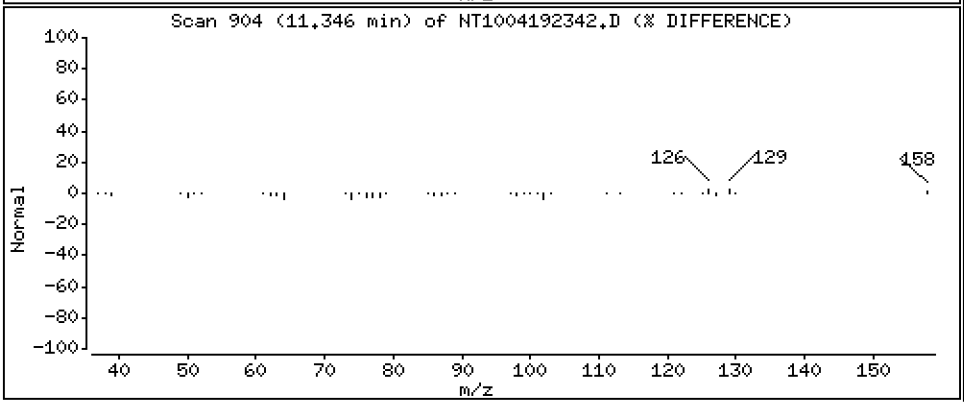












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

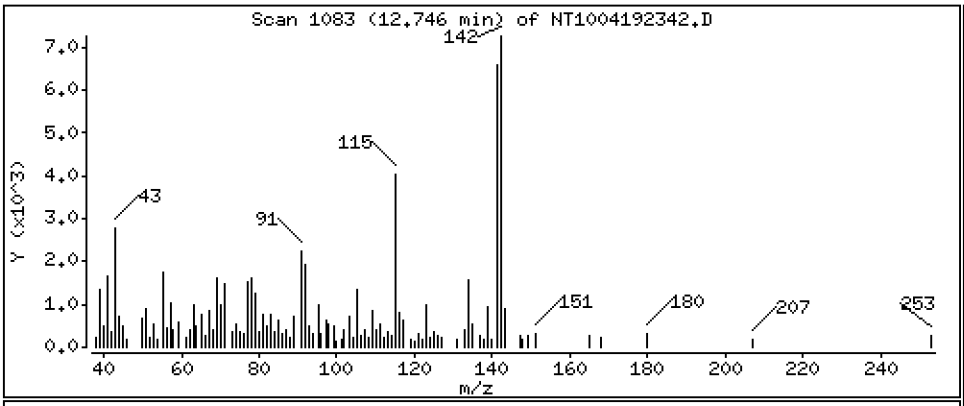
Operator: VTS

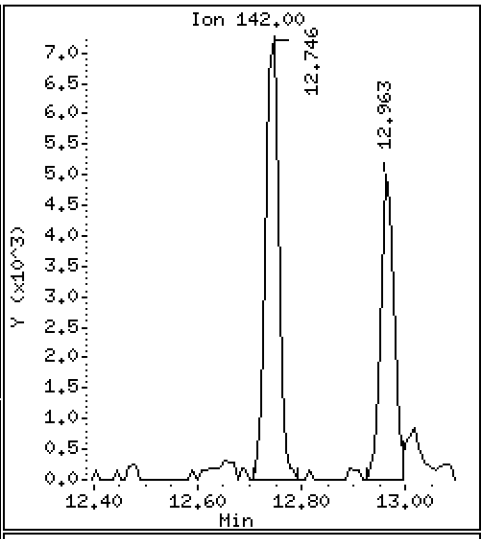
Column phase: ZB-5msi

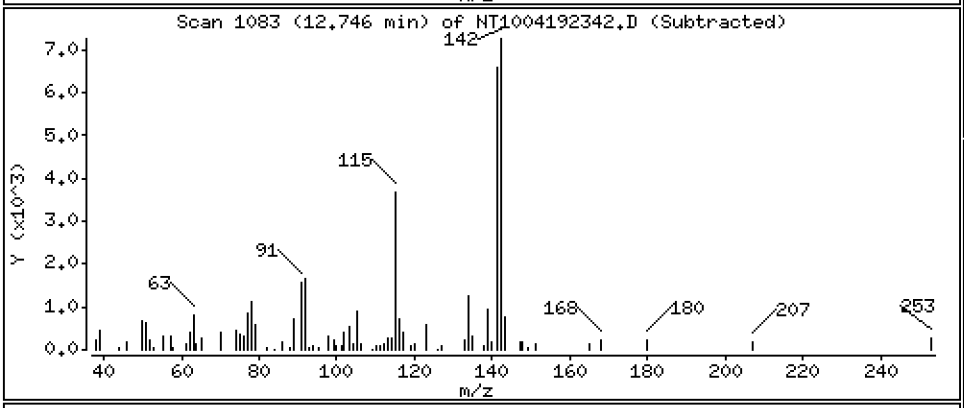
Column diameter: 0.25

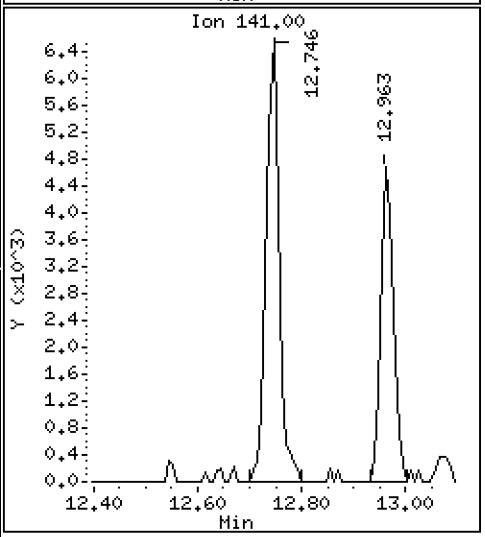
32 2-Methylnaphthalene

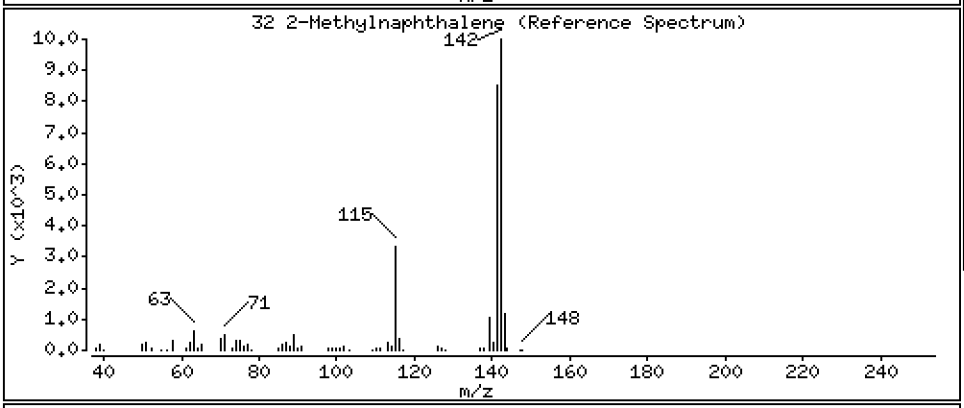
Concentration: 0.1094 ug/mL

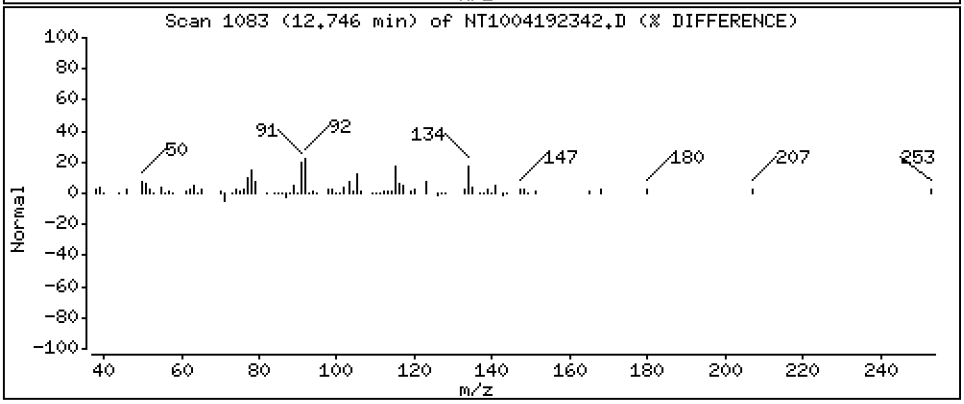












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

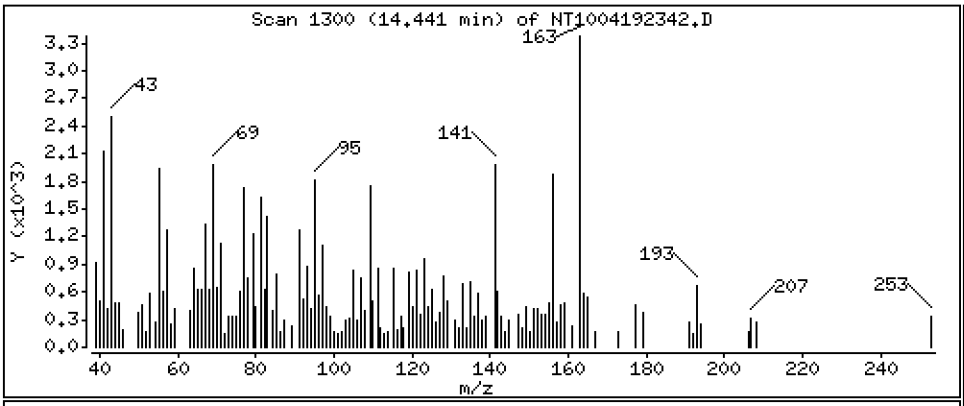
Operator: VTS

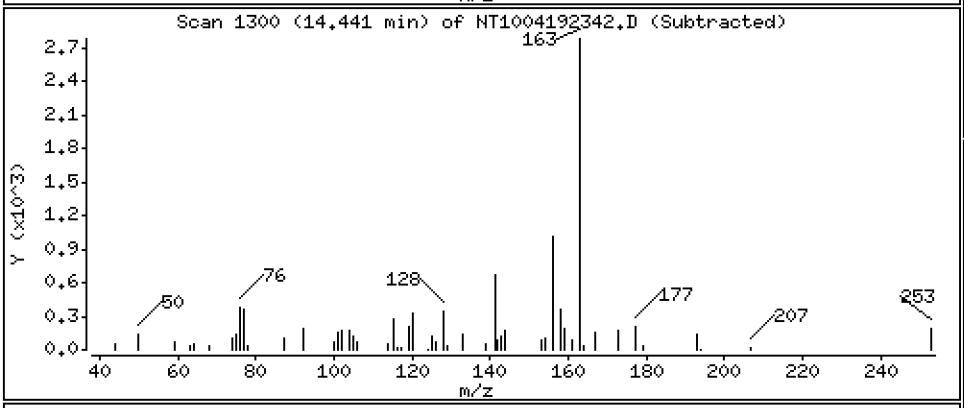
Column phase: ZB-5msi

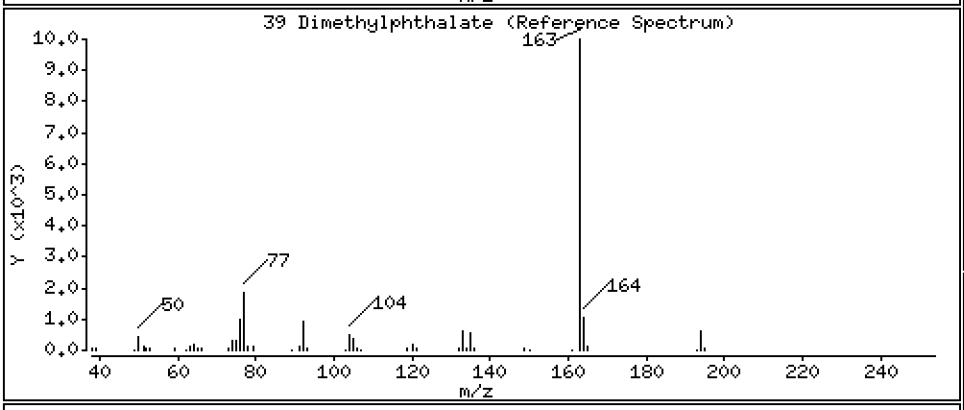
Column diameter: 0.25

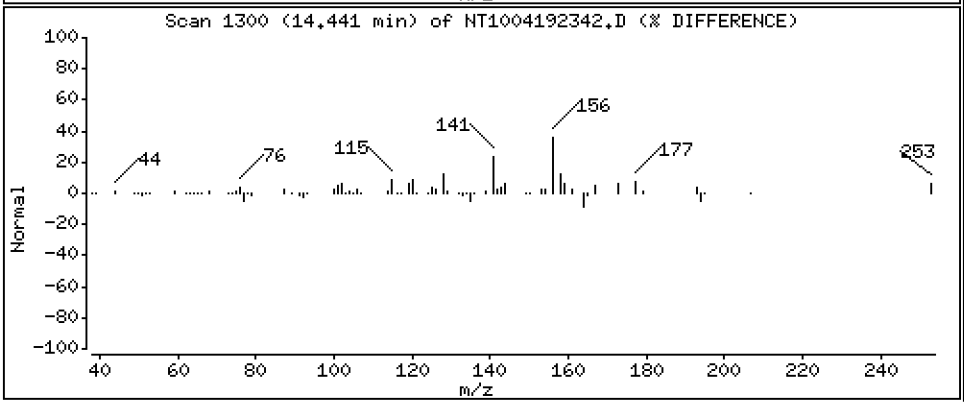
39 Dimethylphthalate

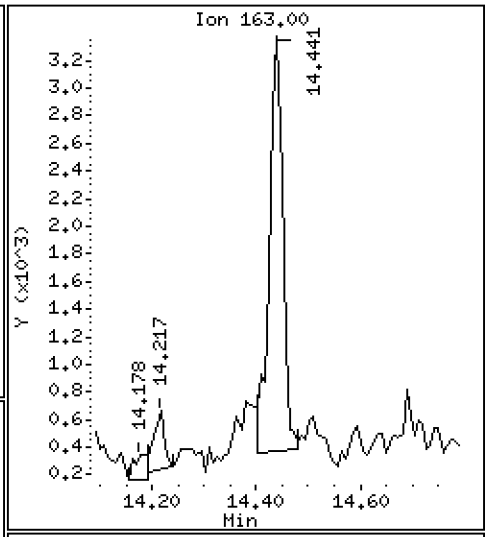
Concentration: 0.04777 ug/mL

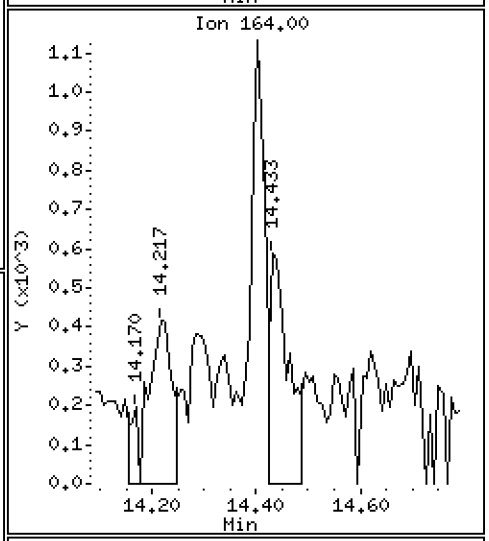


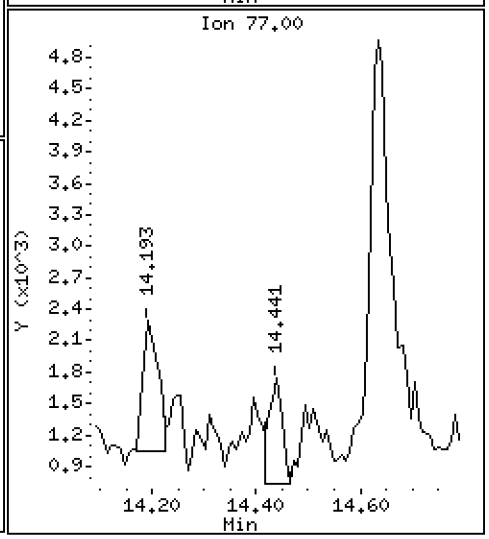












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

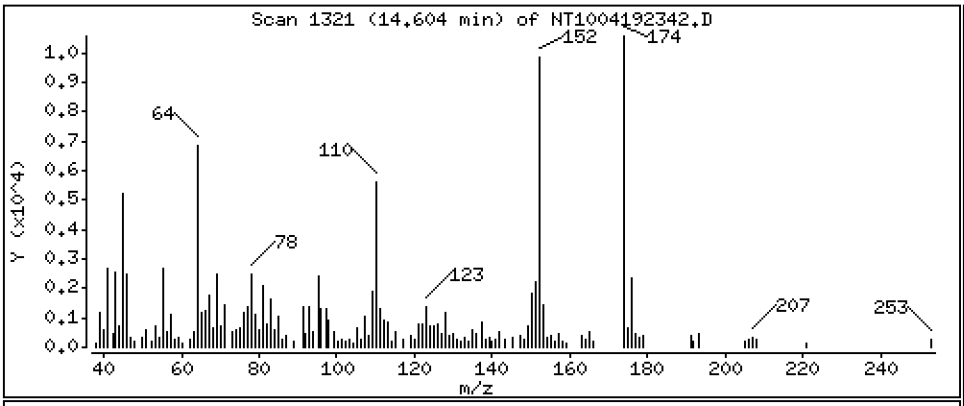
Operator: VTS

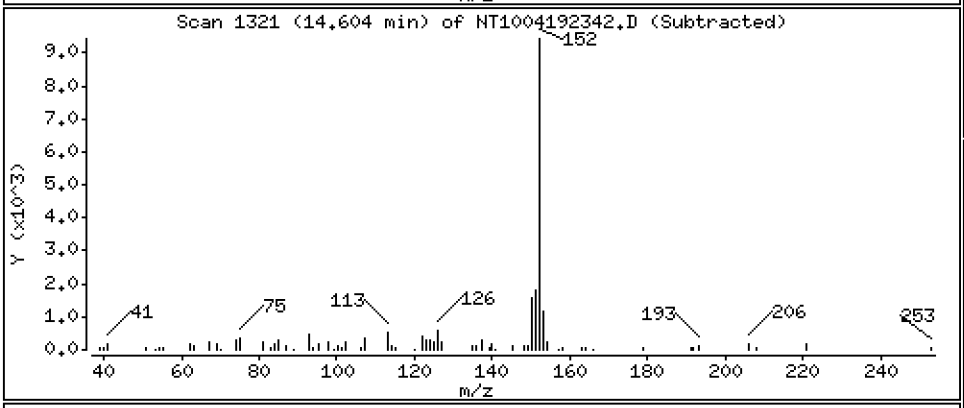
Column phase: ZB-5msi

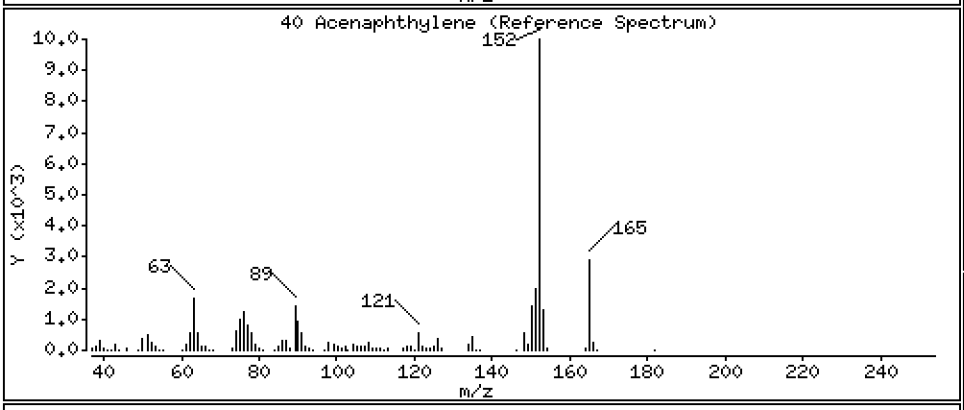
Column diameter: 0.25

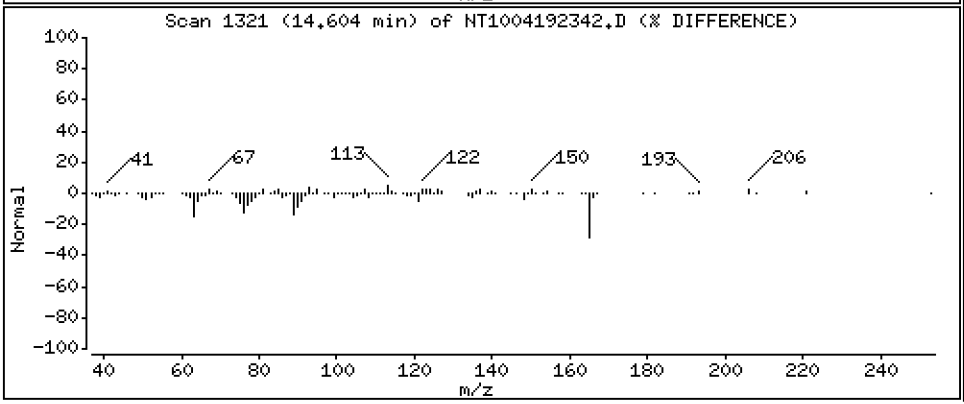
40 Acenaphthylene

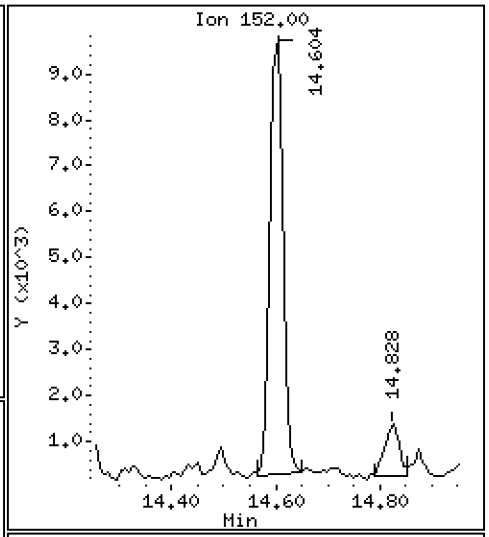
Concentration: 0.09342 ug/mL

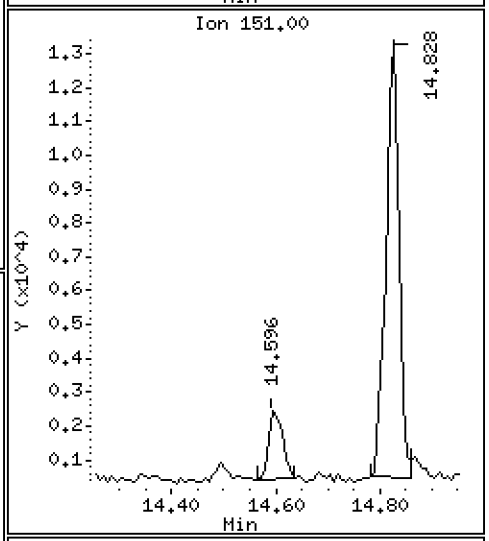


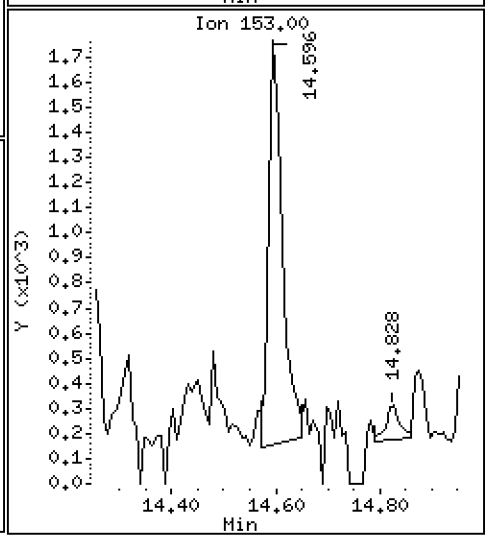












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

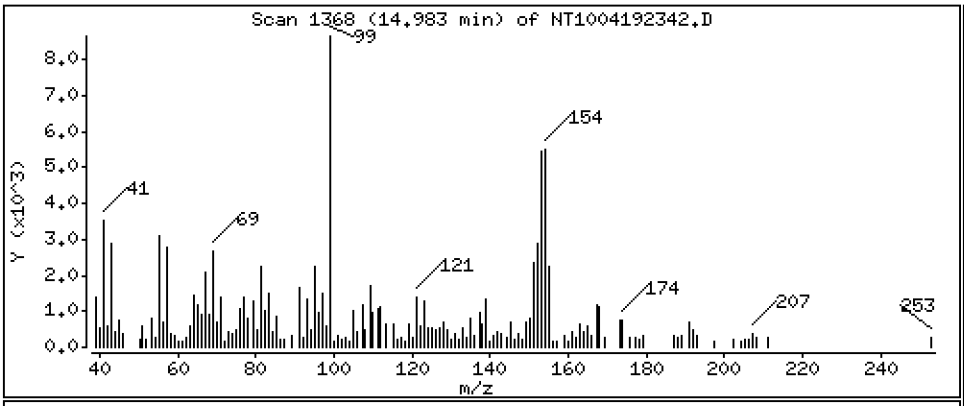
Operator: VTS

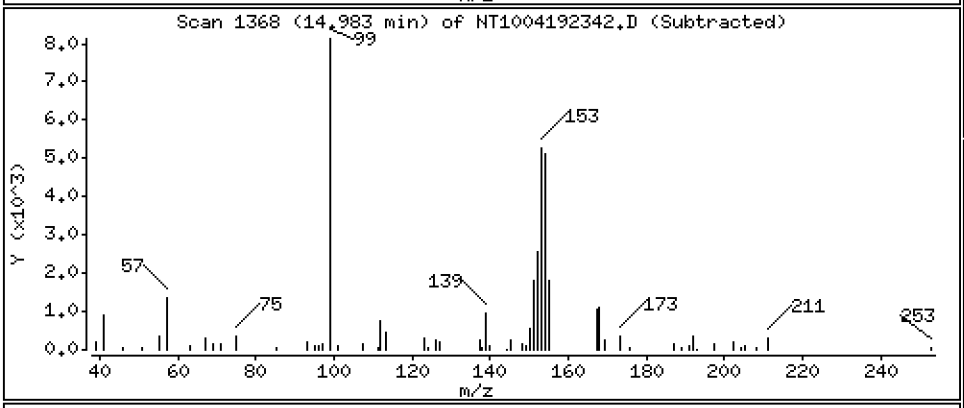
Column phase: ZB-5msi

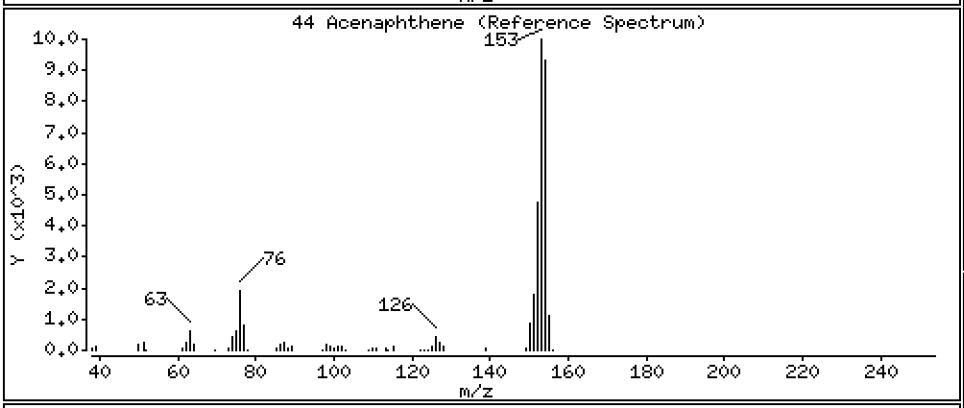
Column diameter: 0.25

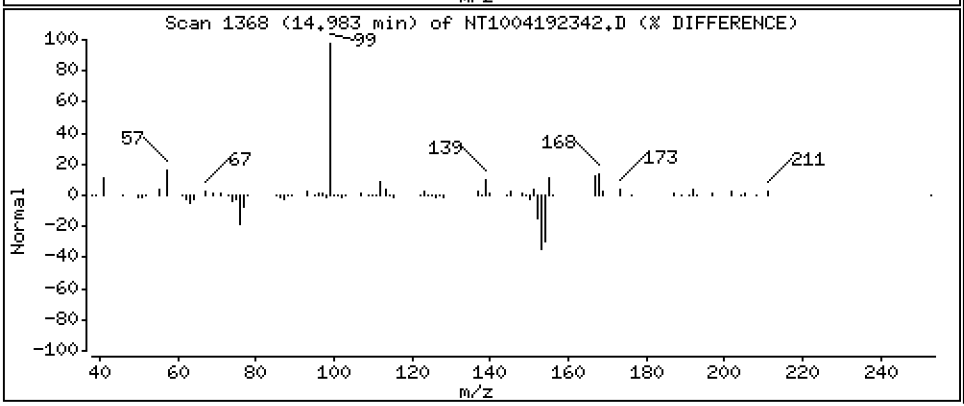
44 Acenaphthene

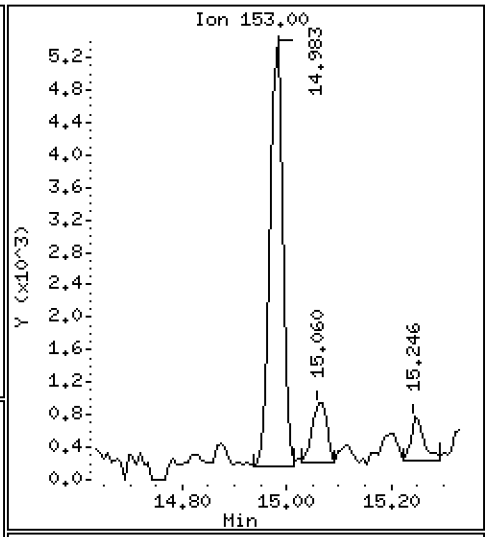
Concentration: 0.08127 ug/mL

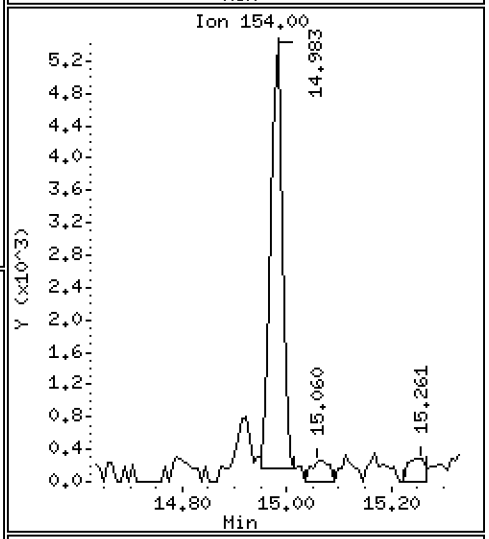


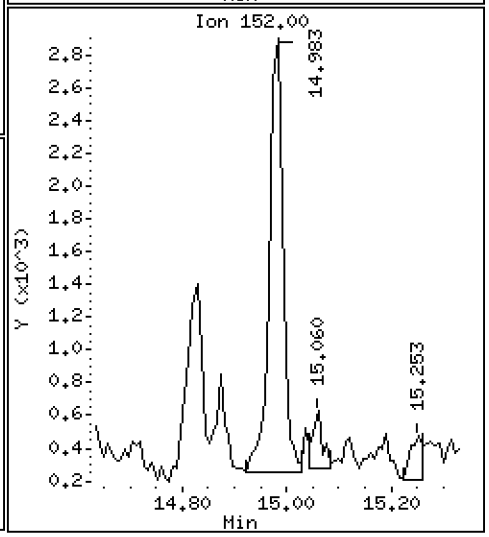












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

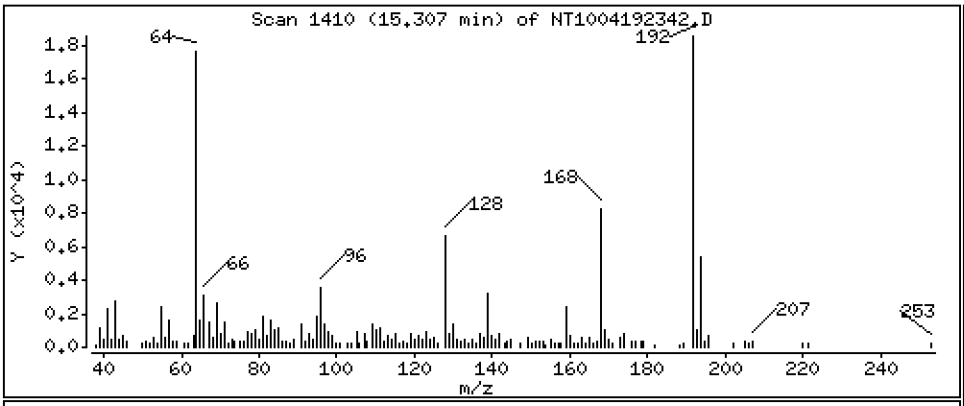
Operator: VTS

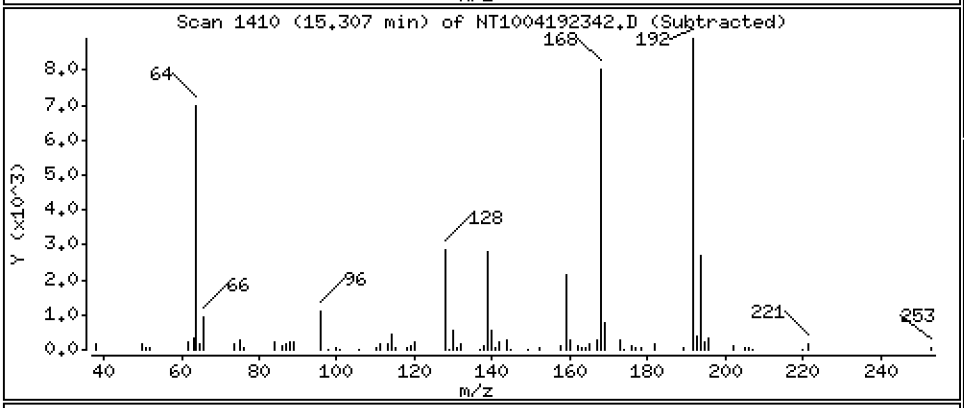
Column phase: ZB-5msi

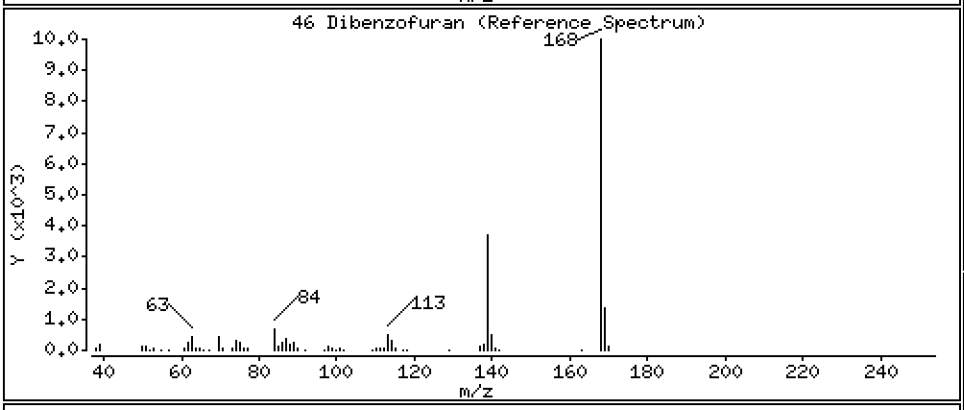
Column diameter: 0.25

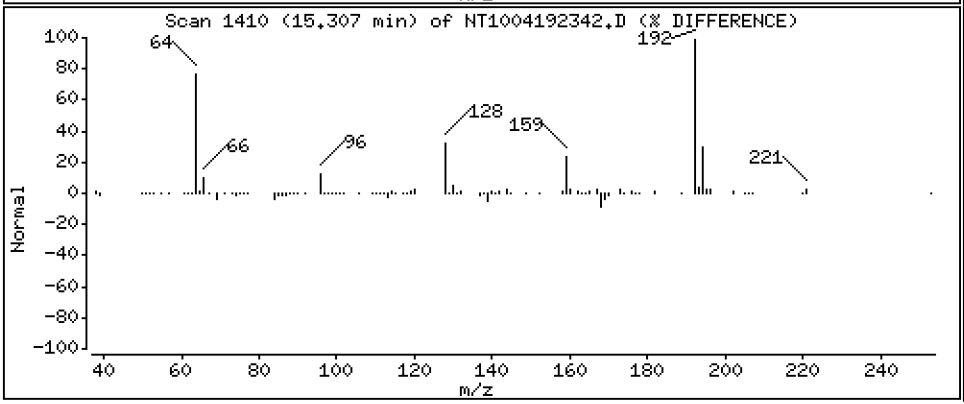
46 Dibenzofuran

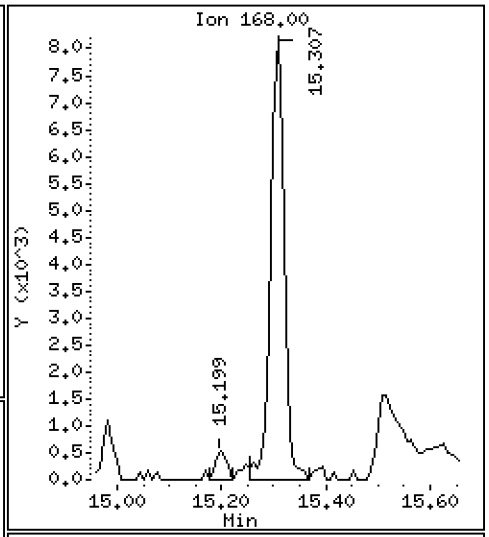
Concentration: 0.09283 ug/mL

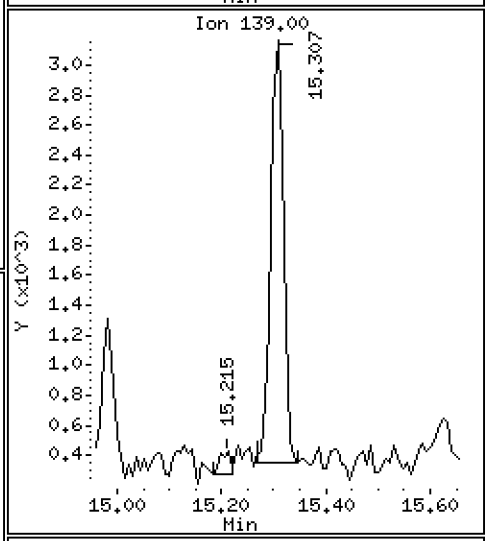


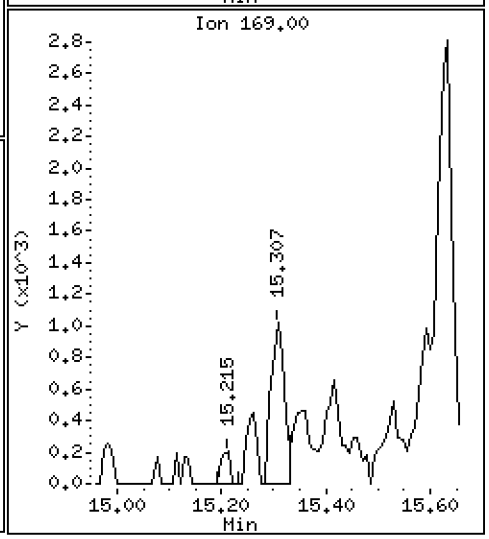












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192342.D

Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

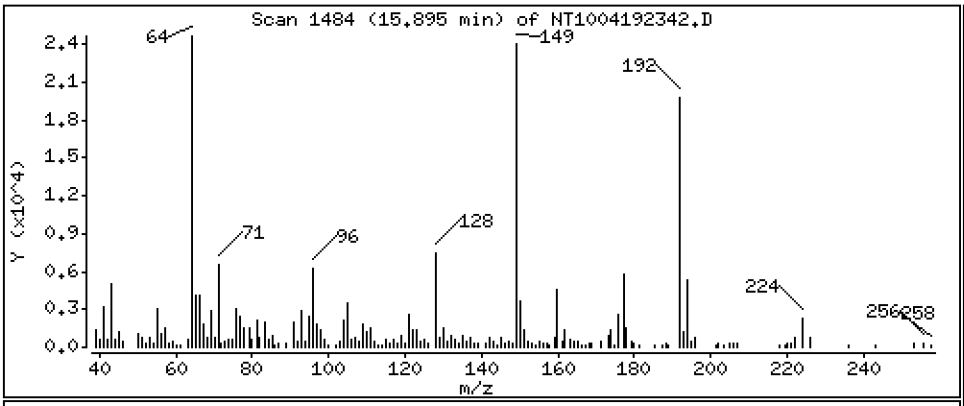
Operator: VTS

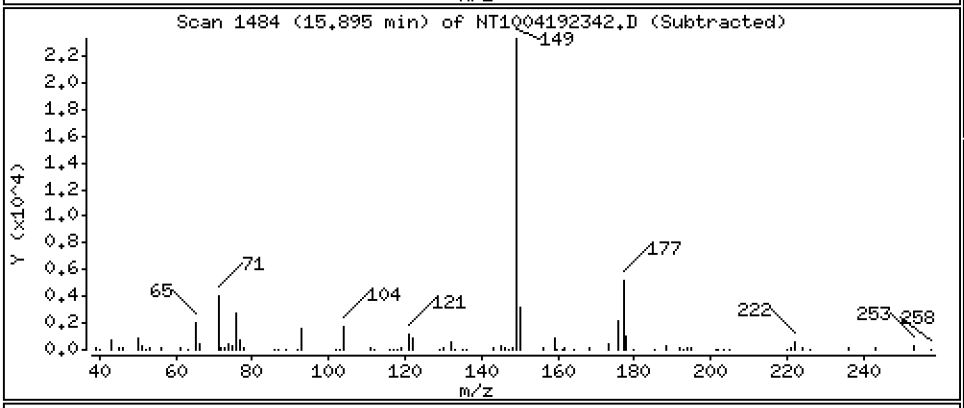
Column phase: ZB-5msi

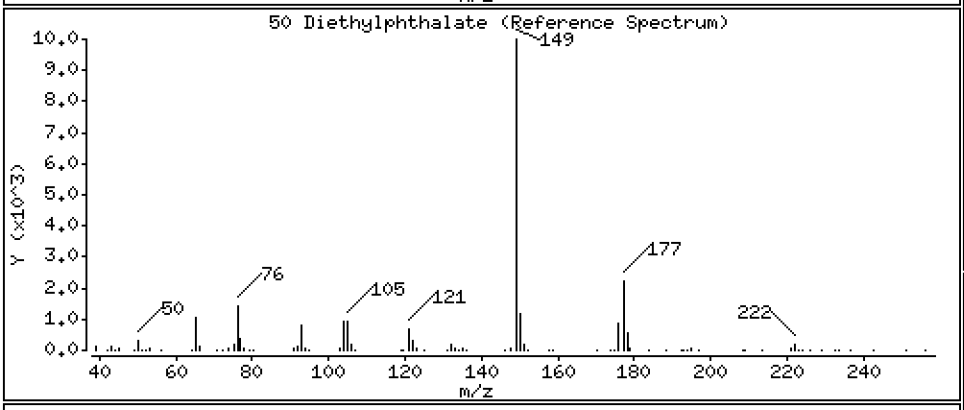
Column diameter: 0.25

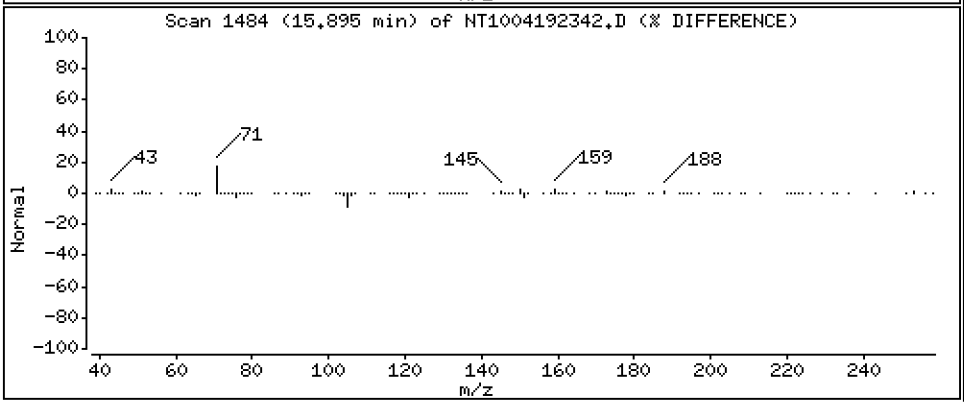
50 Diethylphthalate

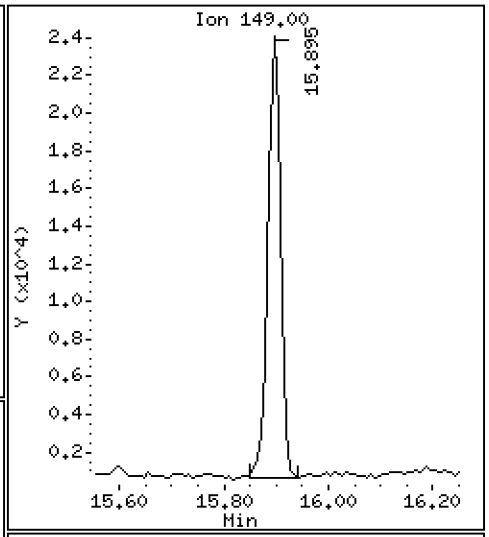
Concentration: 0.3493 ug/mL

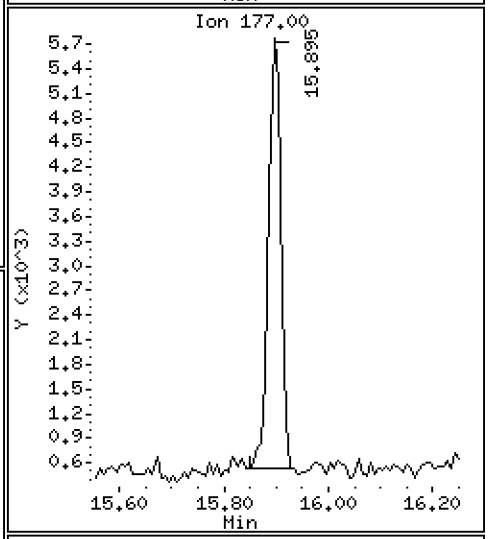


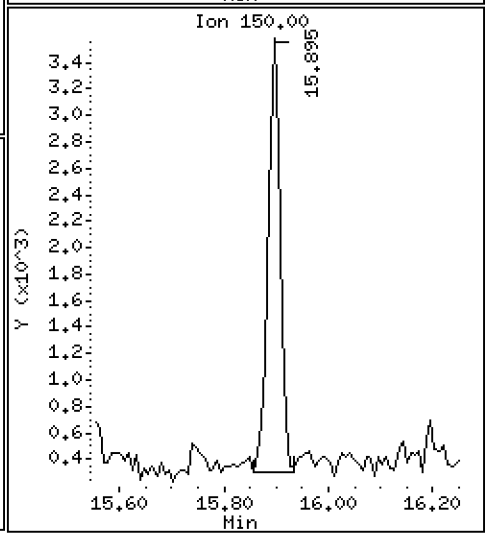












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

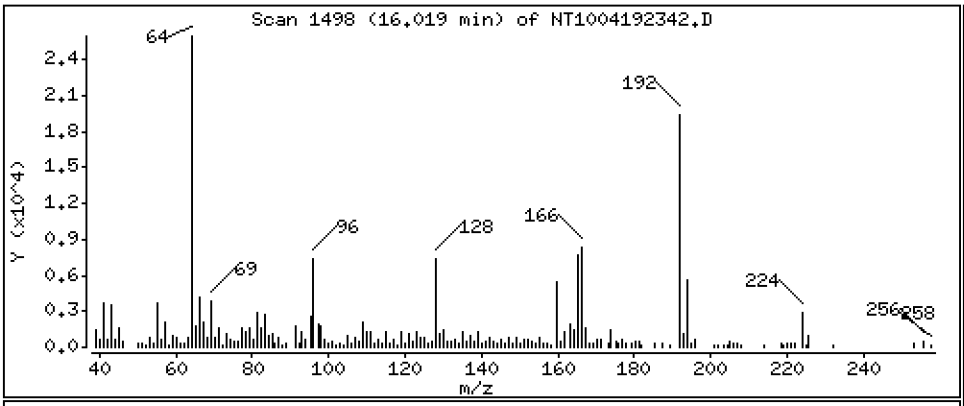
Operator: VTS

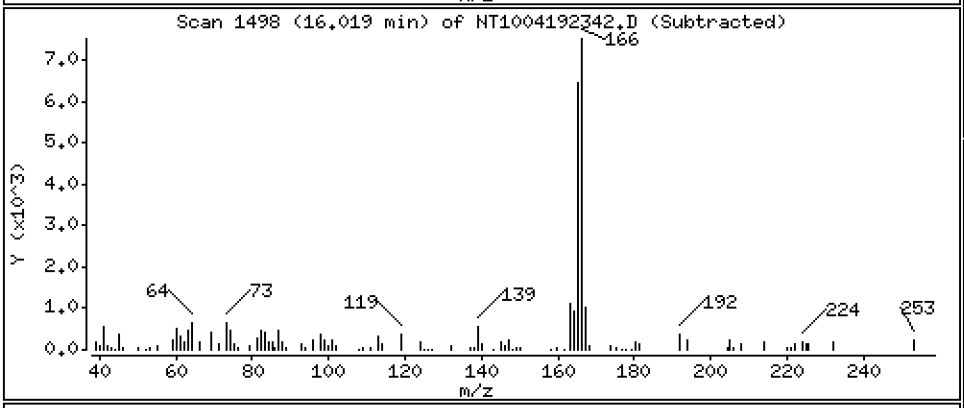
Column phase: ZB-5msi

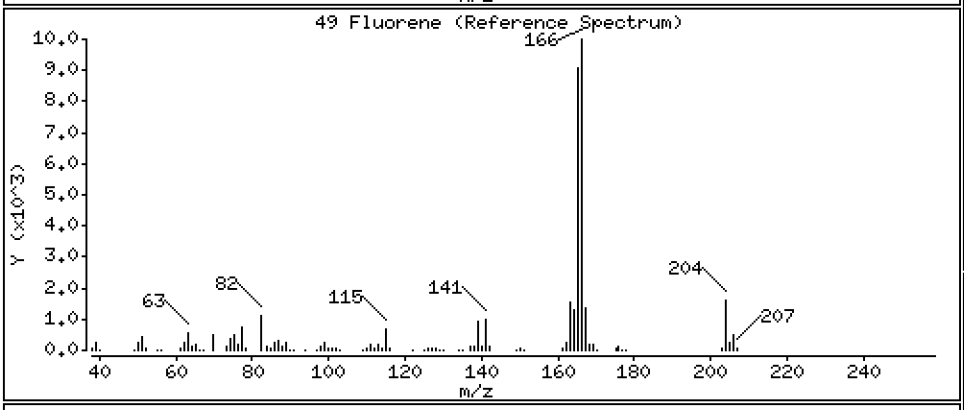
Column diameter: 0.25

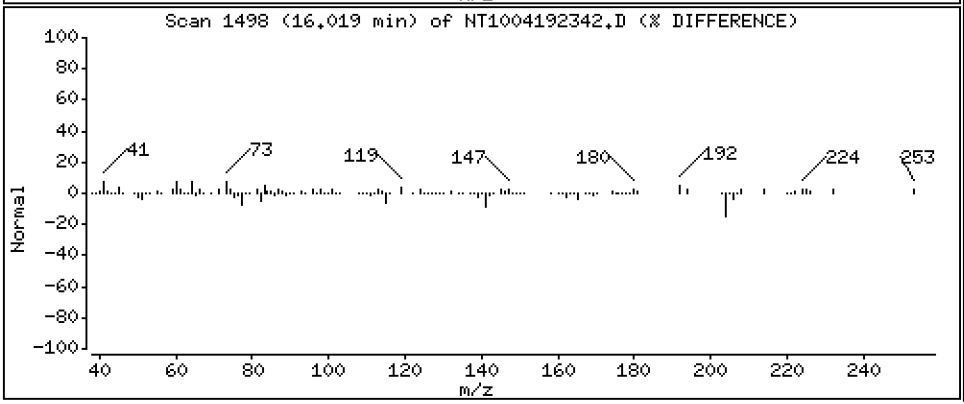
49 Fluorene

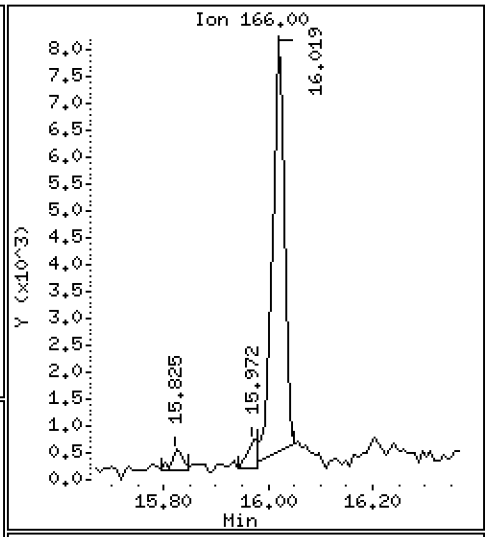
Concentration: 0.1007 ug/mL

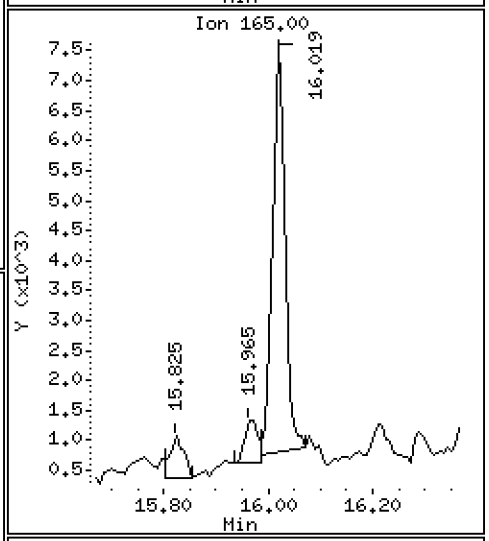


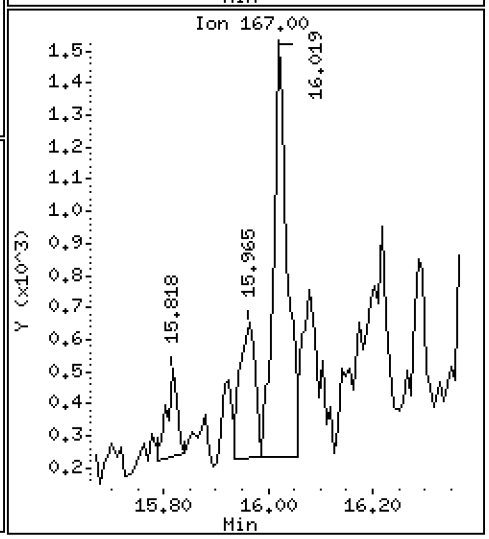












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

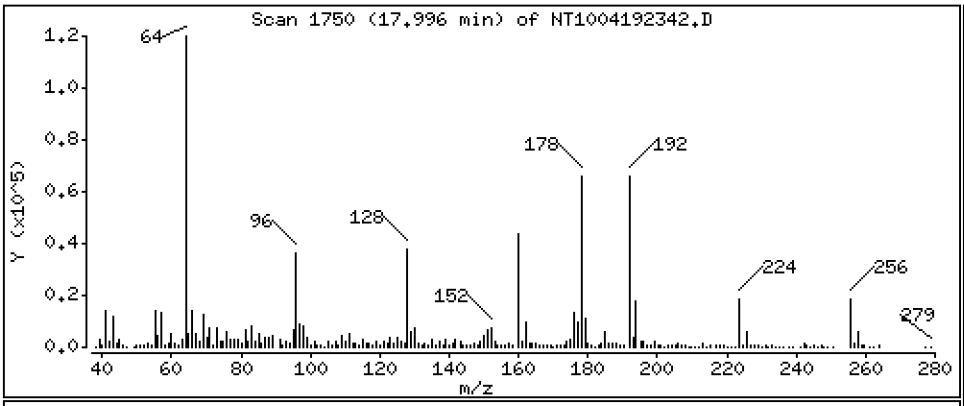
Operator: VTS

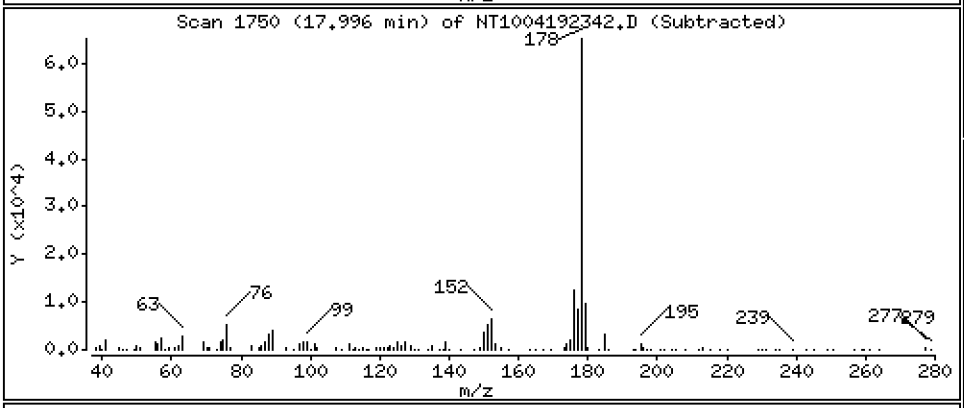
Column phase: ZB-5msi

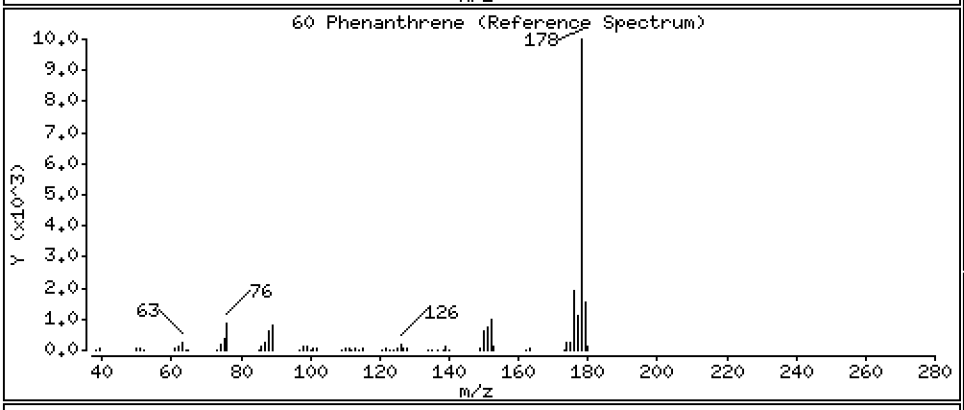
Column diameter: 0.25

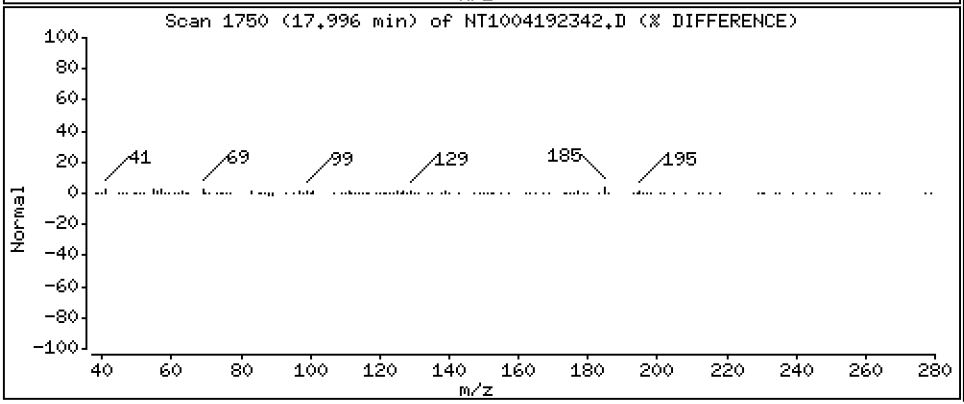
60 Phenanthrene

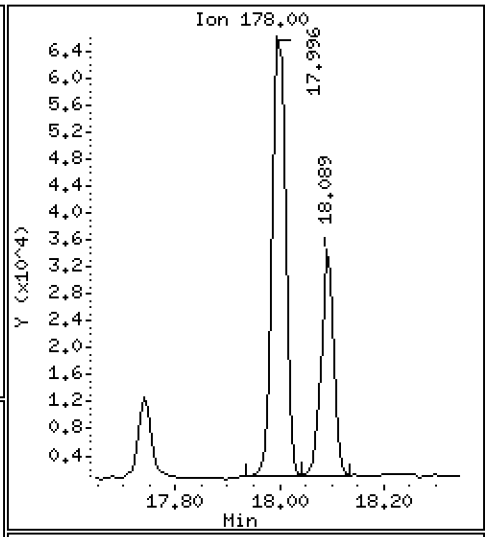
Concentration: 0.6846 ug/mL

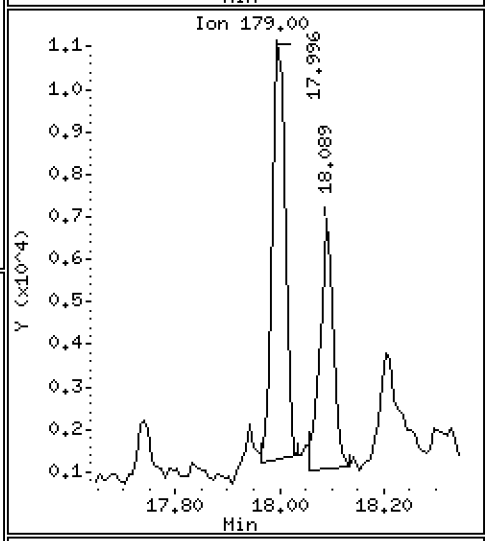


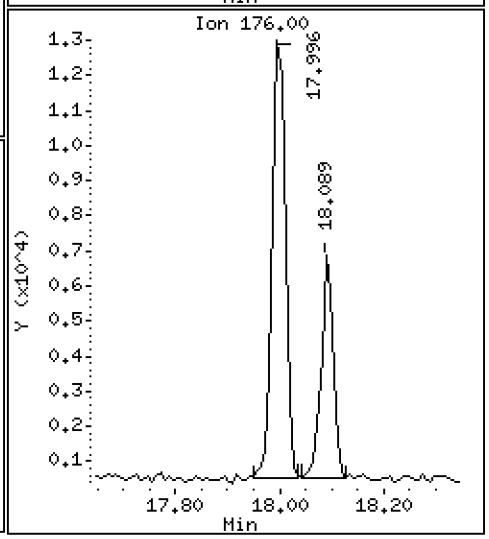












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

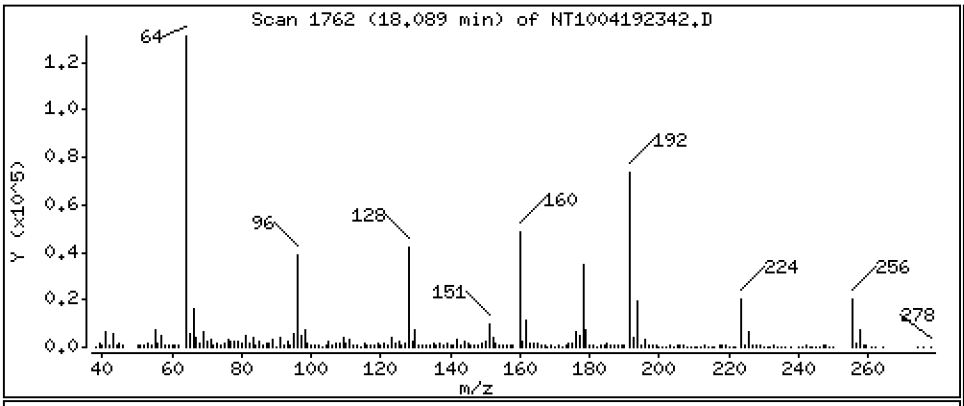
Operator: VTS

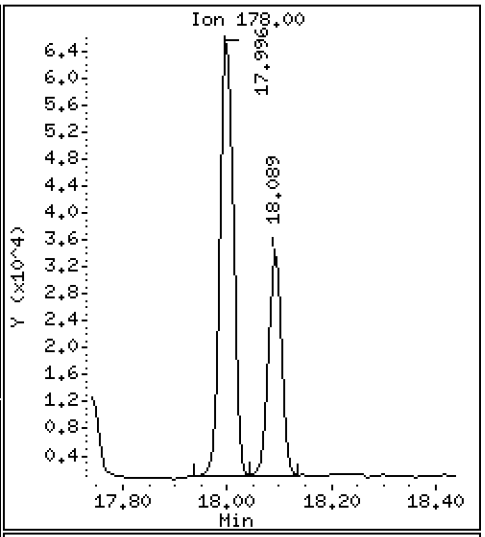
Column phase: ZB-5msi

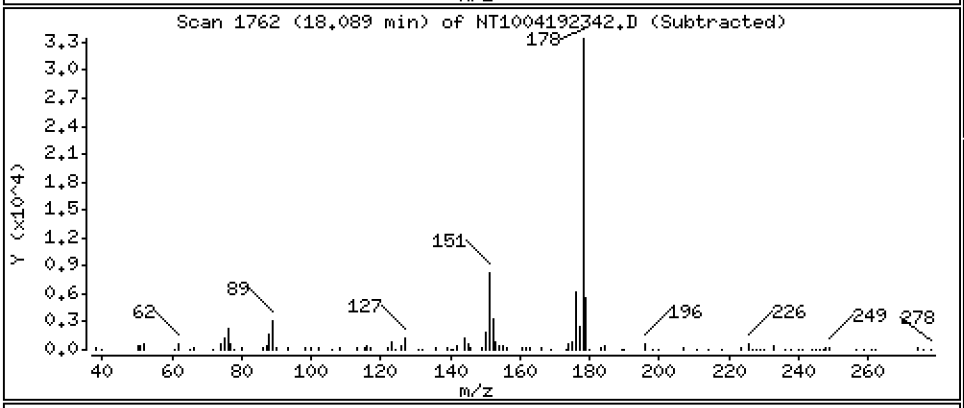
Column diameter: 0.25

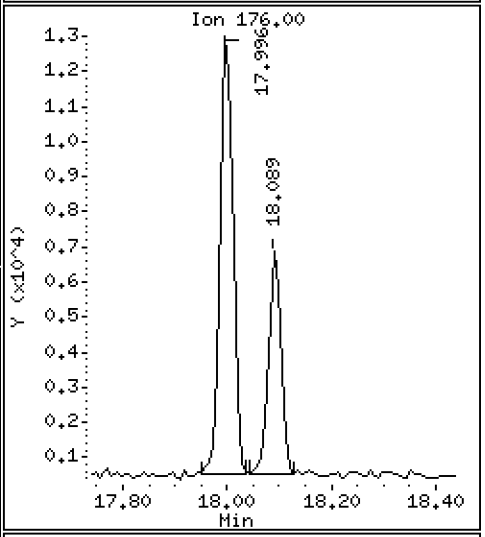
61 Anthracene

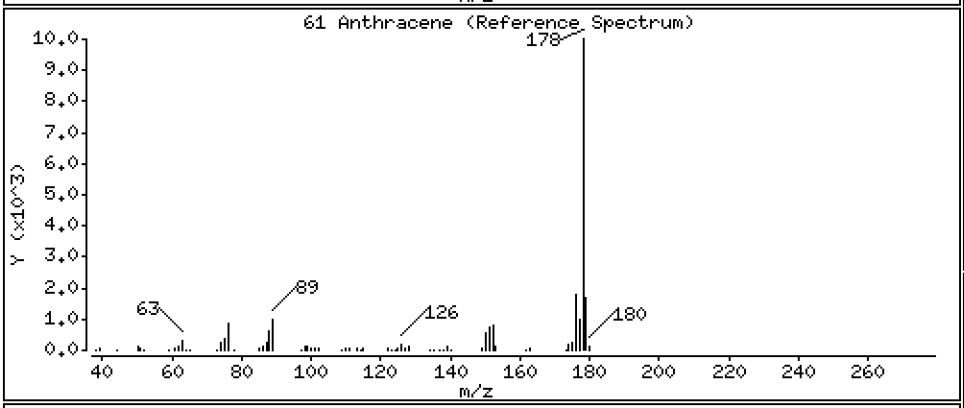
Concentration: 0.3514 ug/mL

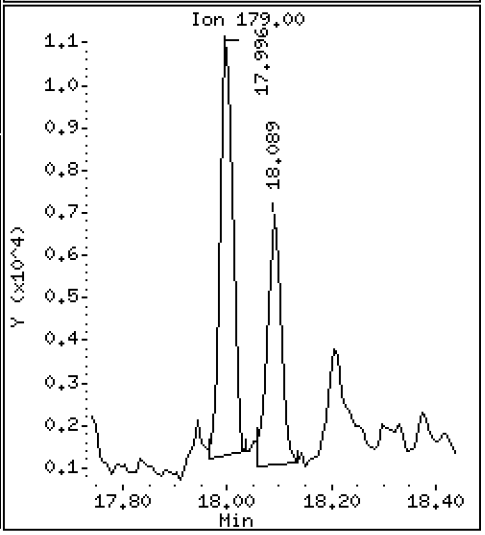


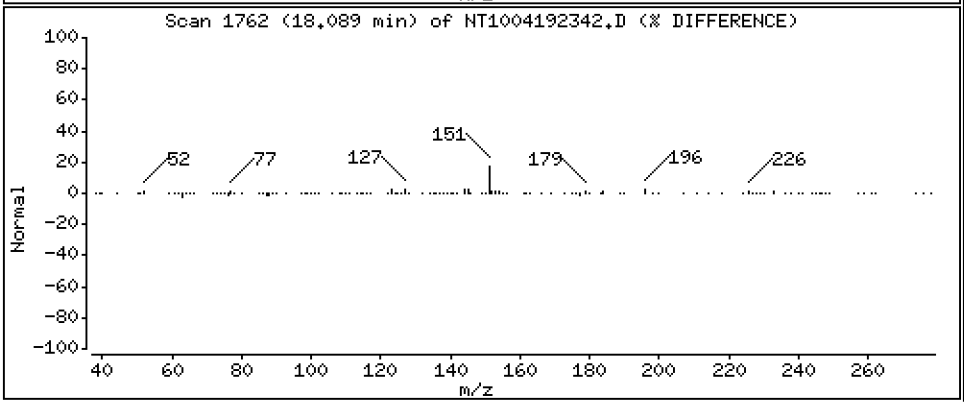












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

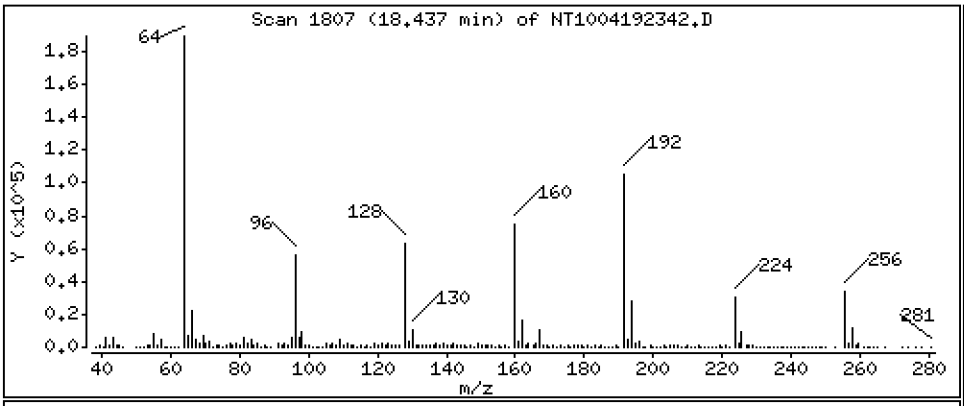
Operator: VTS

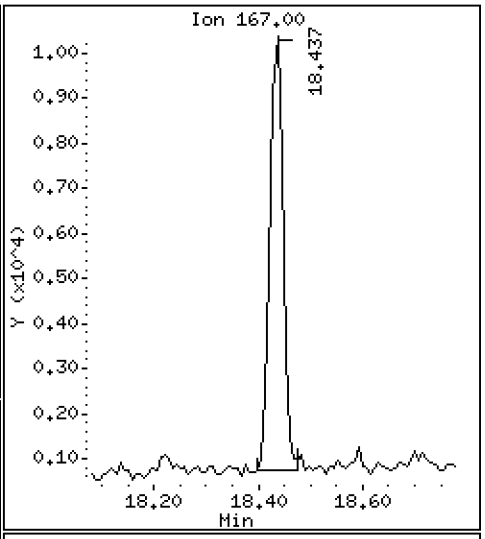
Column phase: ZB-5msi

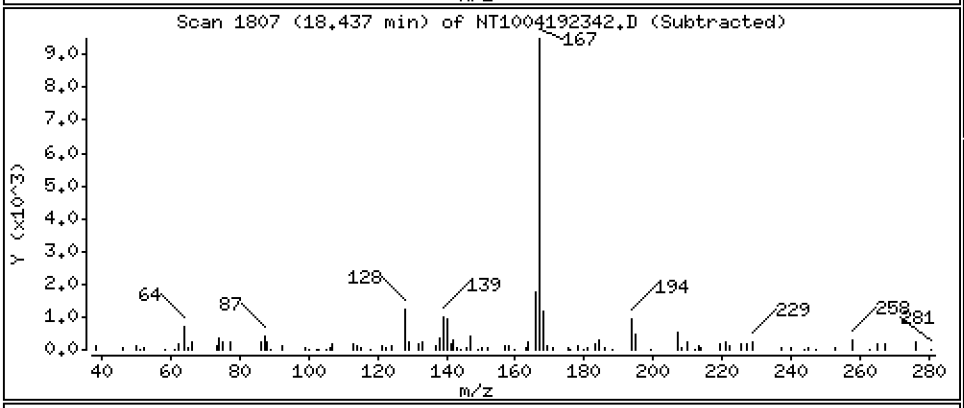
Column diameter: 0.25

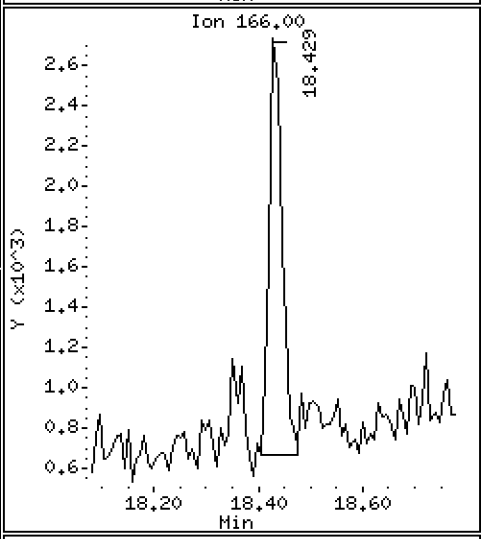
62 Carbazole

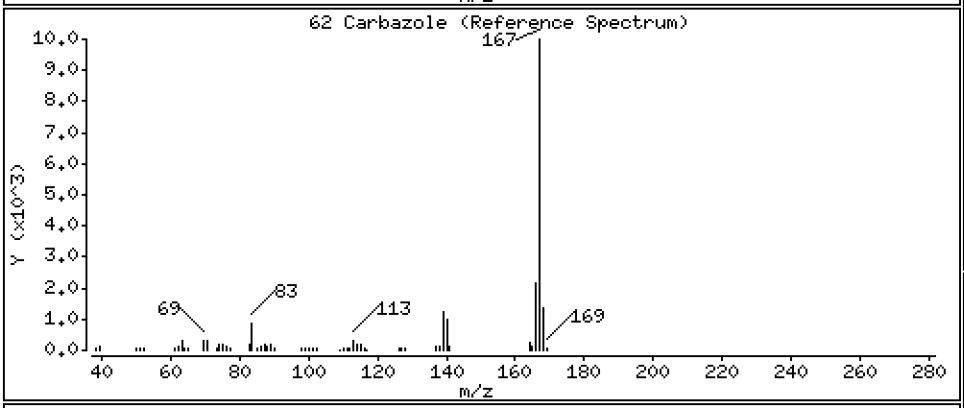
Concentration: 0.1145 ug/mL

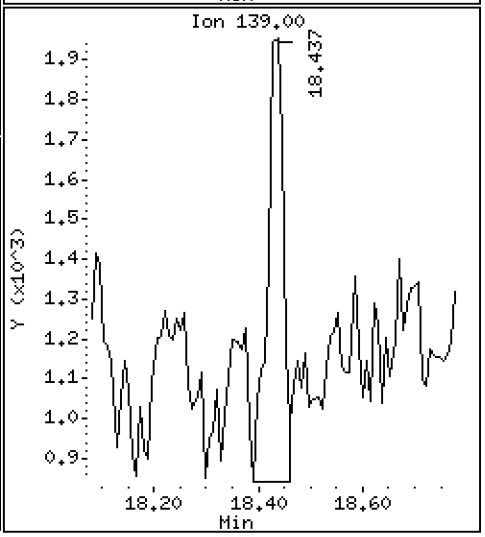


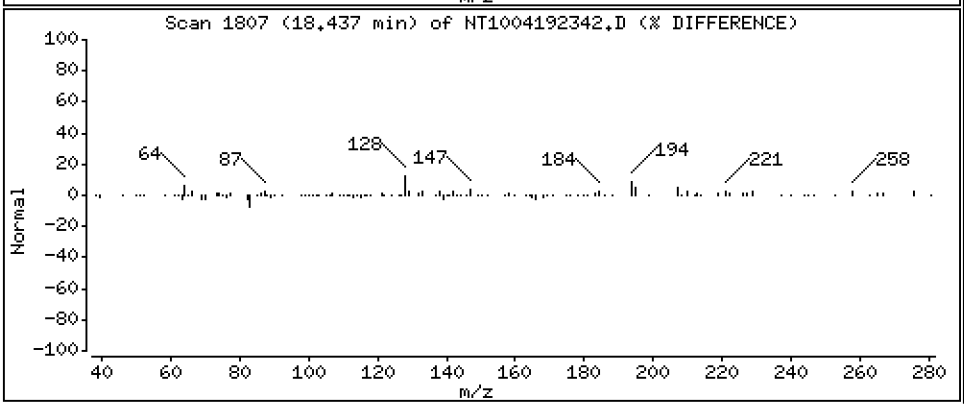












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

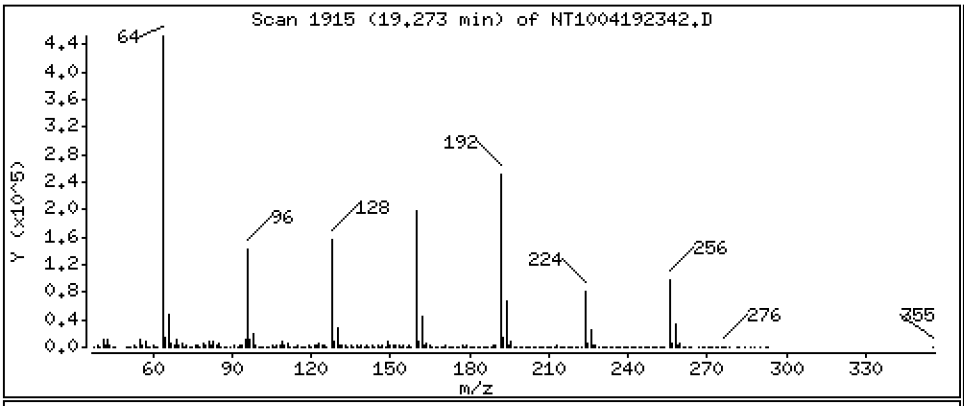
Operator: VTS

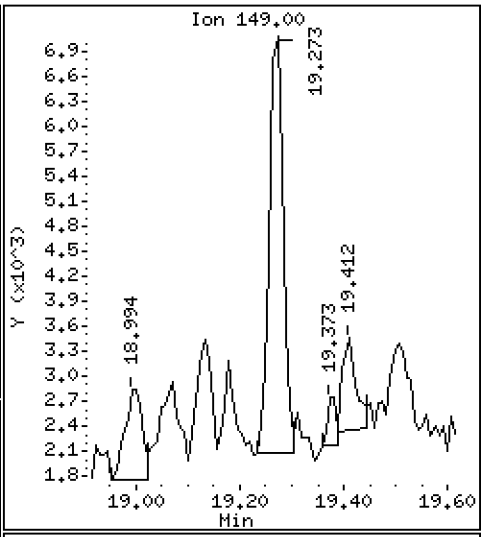
Column phase: ZB-5msi

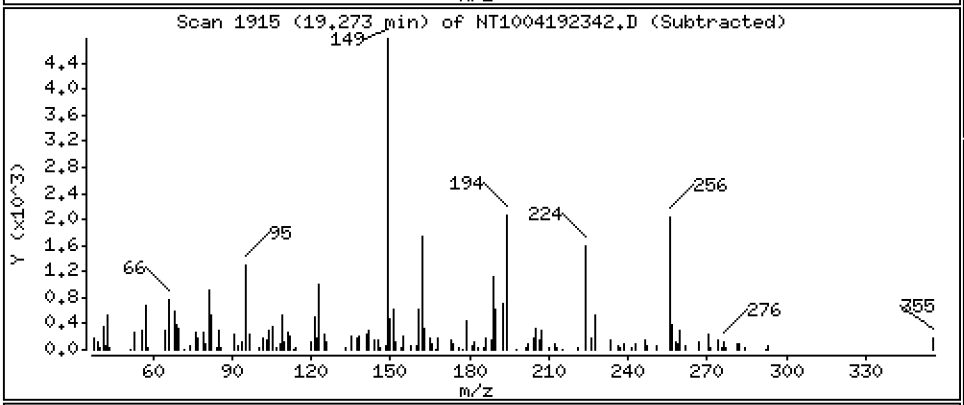
Column diameter: 0.25

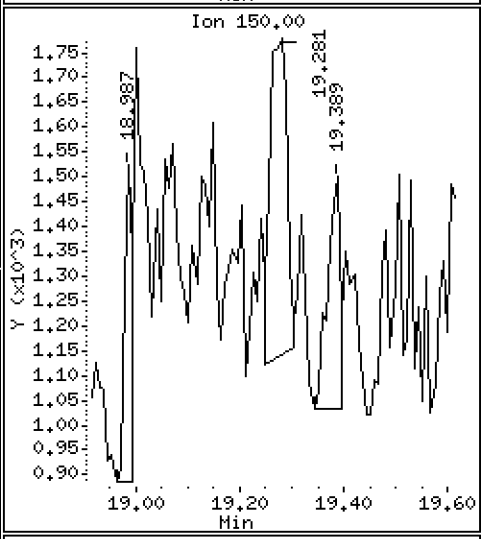
63 Di-n-butylphthalate

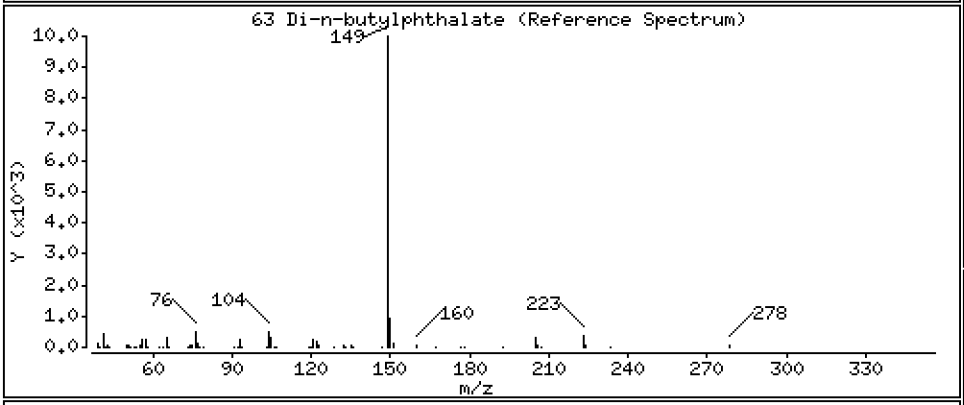
Concentration: 0.04684 ug/mL

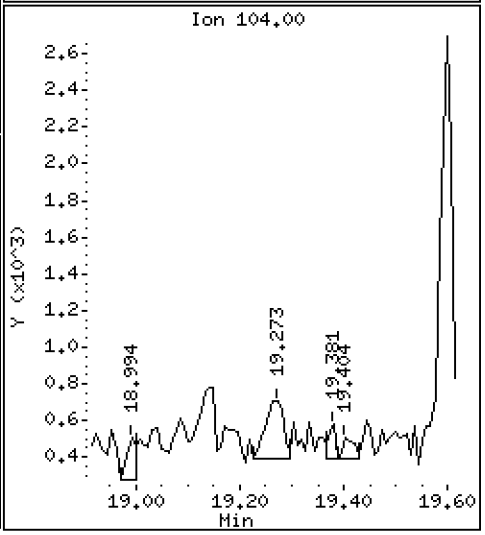


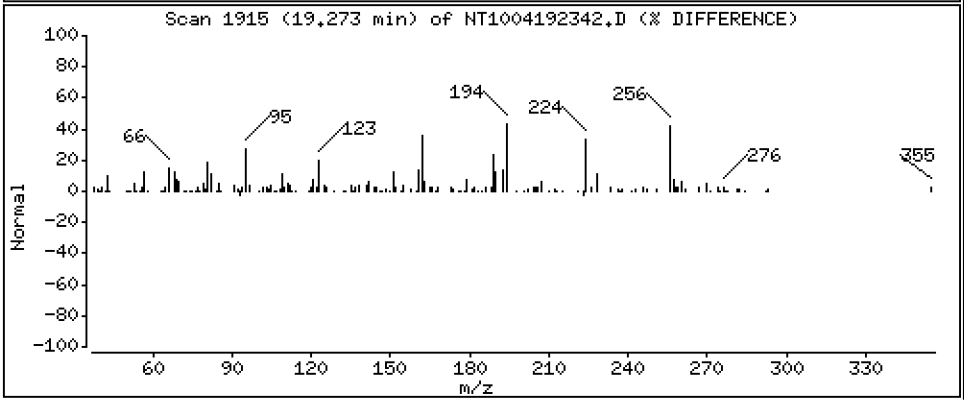












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

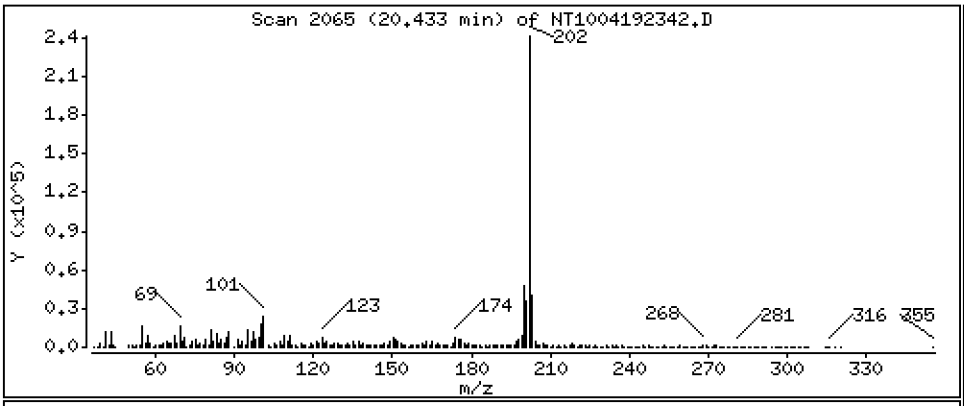
Operator: VTS

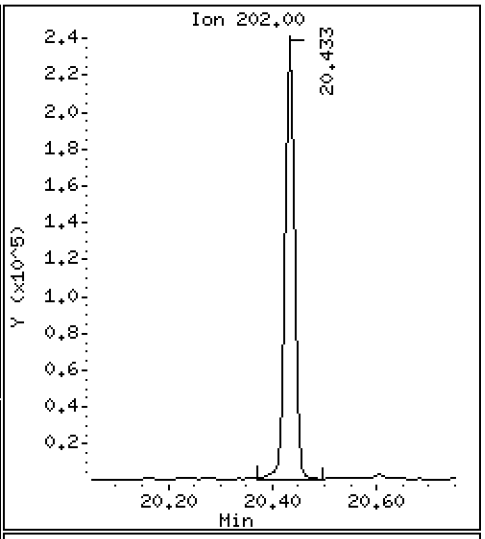
Column phase: ZB-5msi

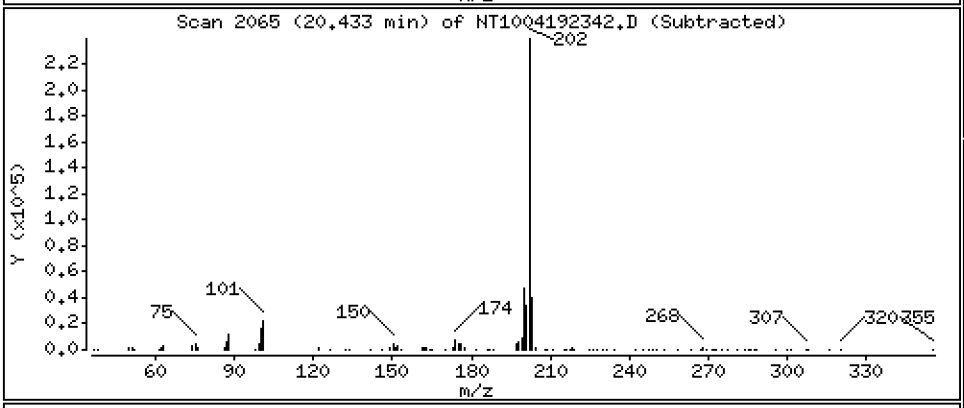
Column diameter: 0.25

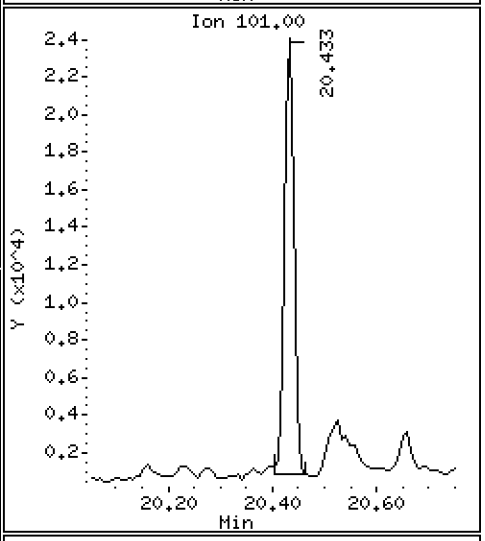
64 Fluoranthene

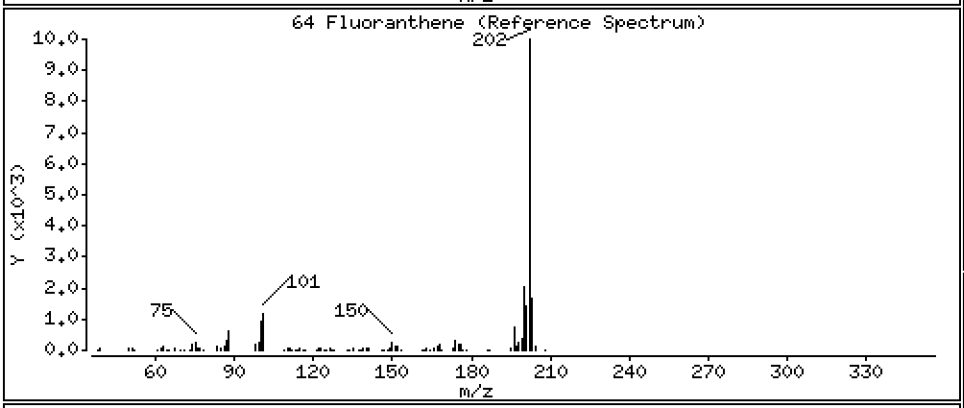
Concentration: 1.312 ug/mL

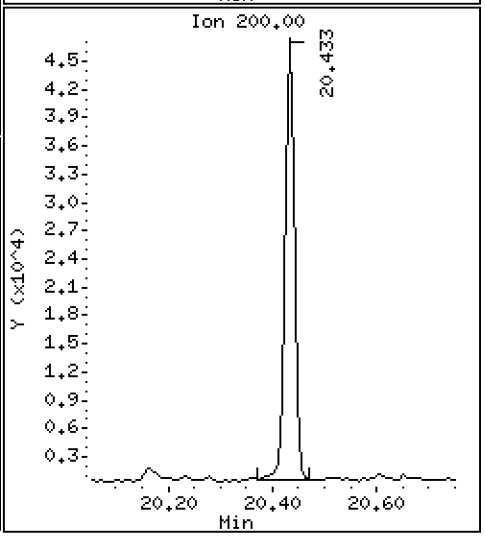


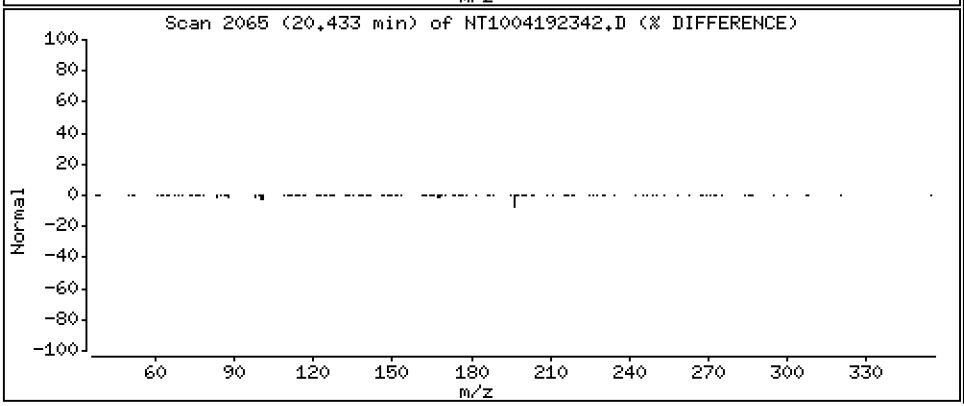












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

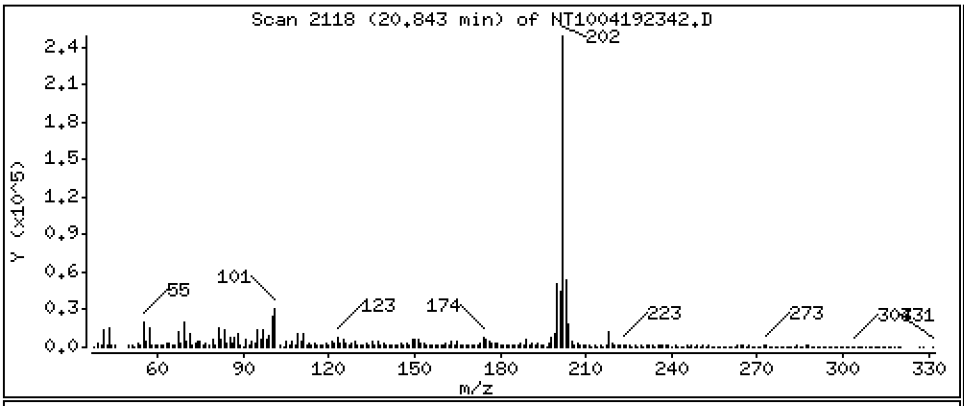
Operator: VTS

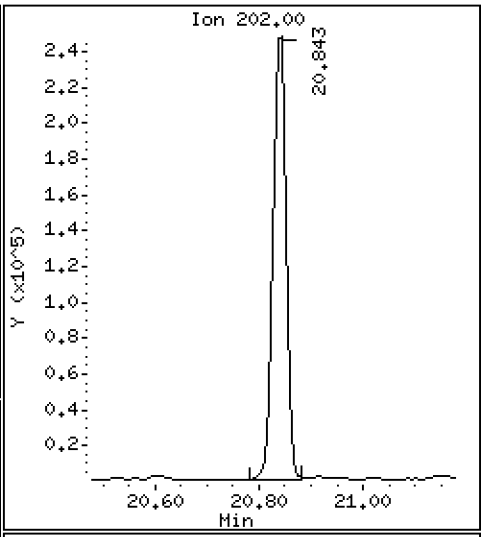
Column phase: ZB-5msi

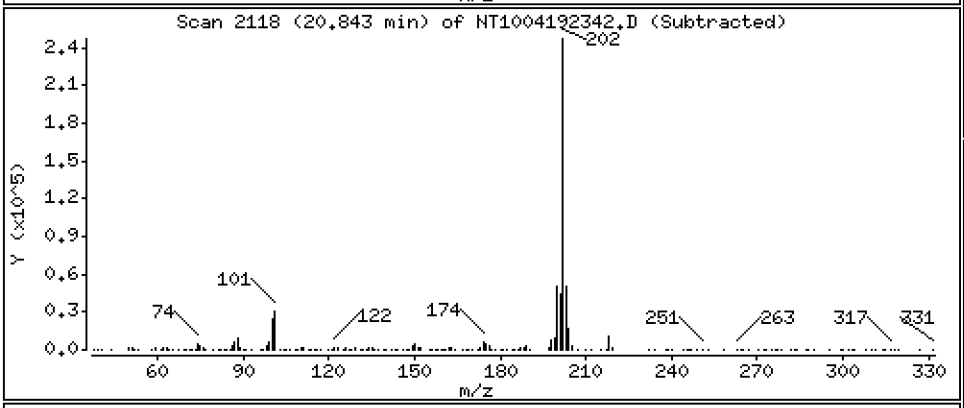
Column diameter: 0.25

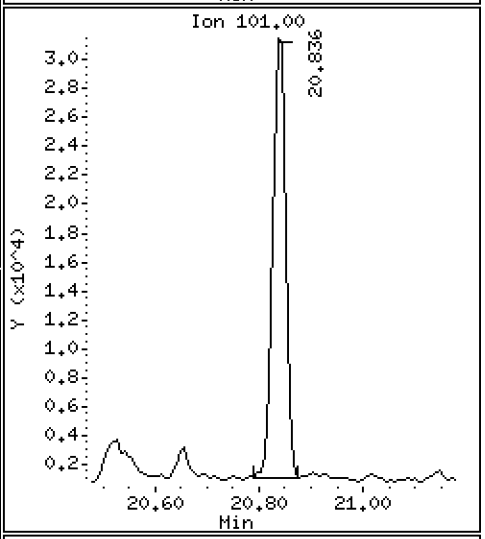
65 Pyrene

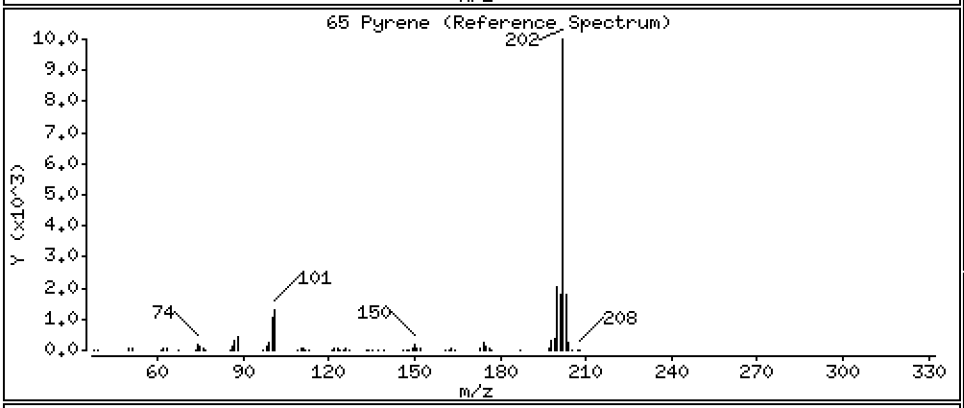
Concentration: 1.656 ug/mL

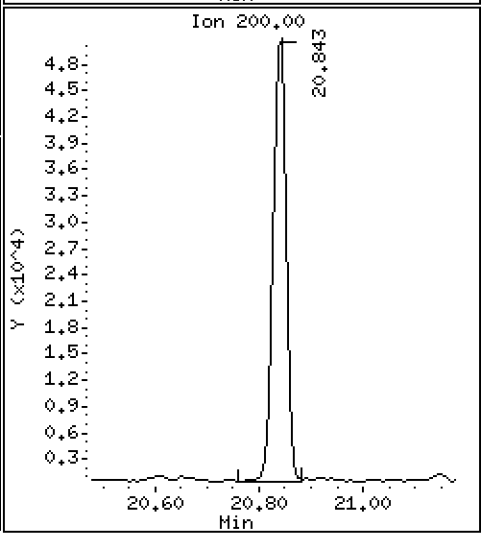


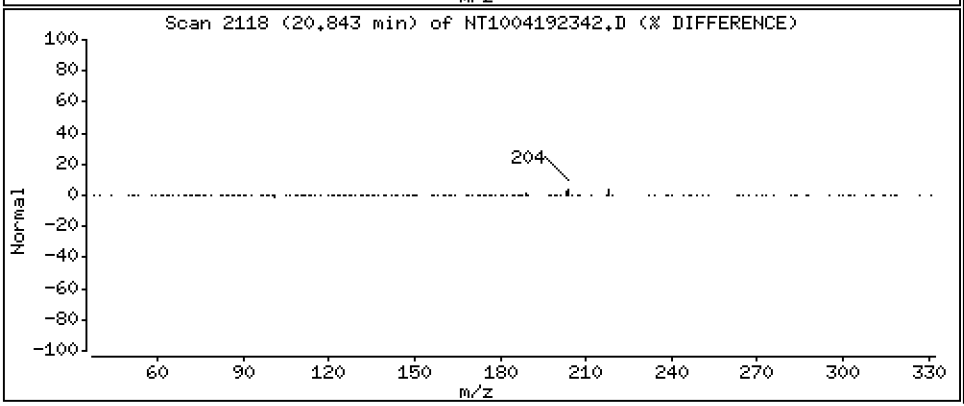












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

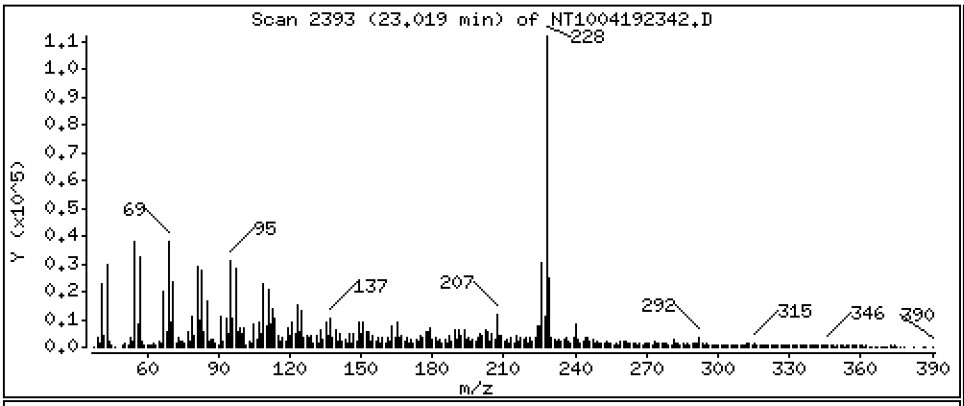
Operator: VTS

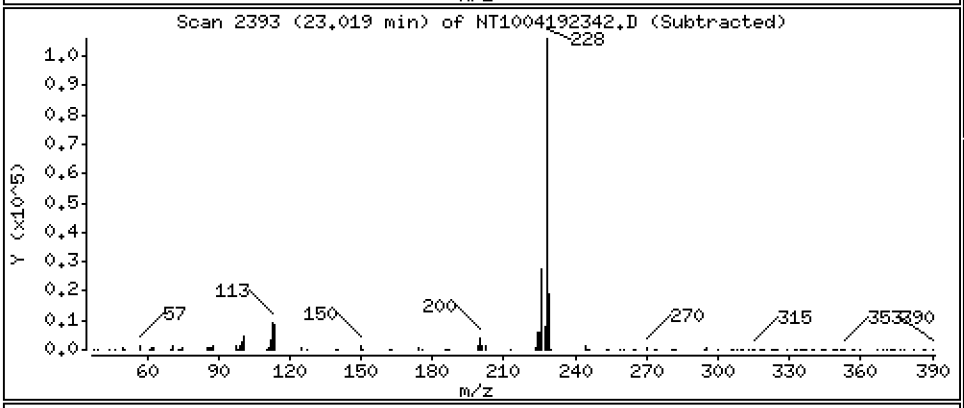
Column phase: ZB-5msi

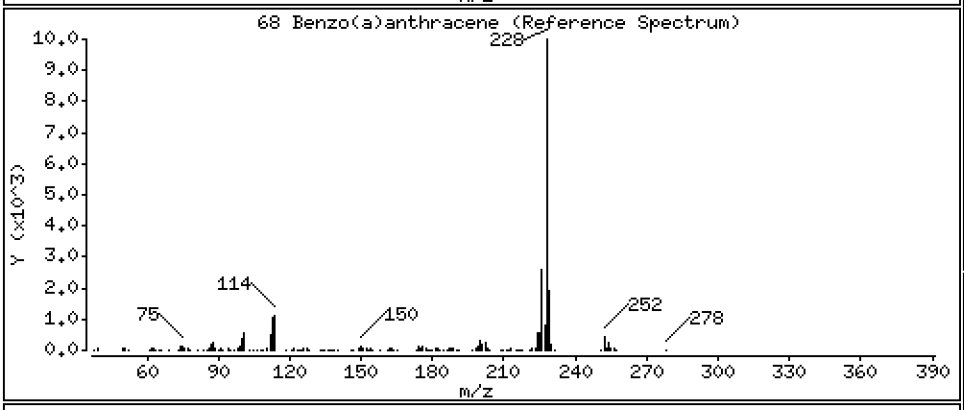
Column diameter: 0.25

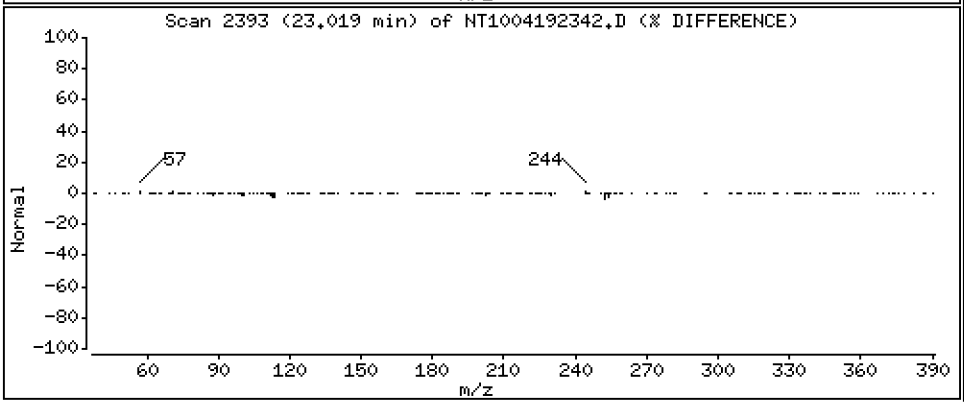
68 Benzo(a)anthracene

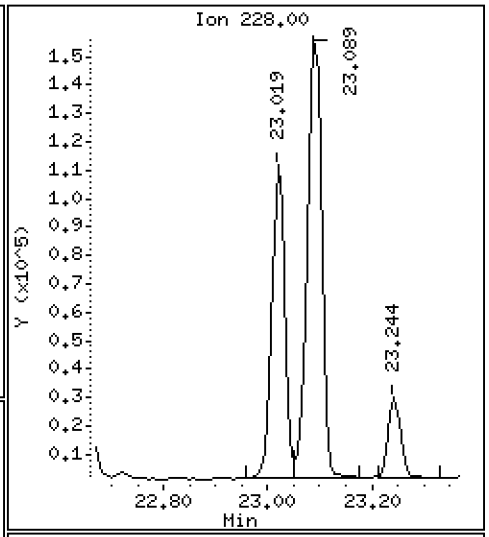
Concentration: 0.8477 ug/mL

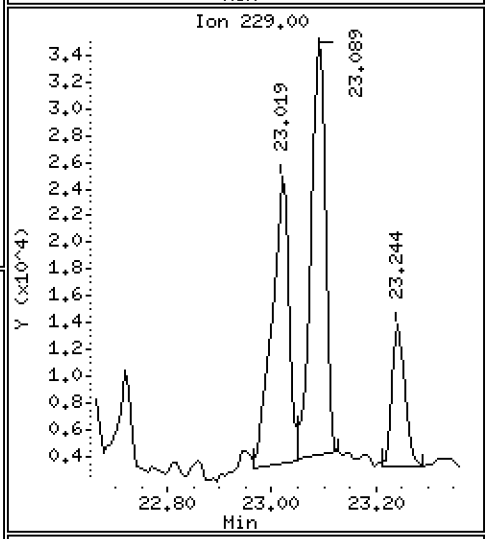


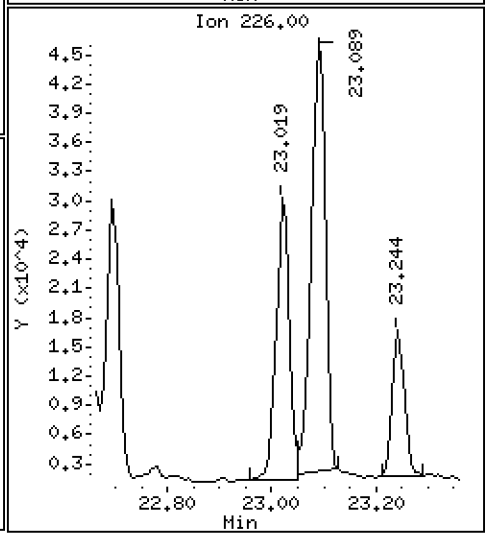












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

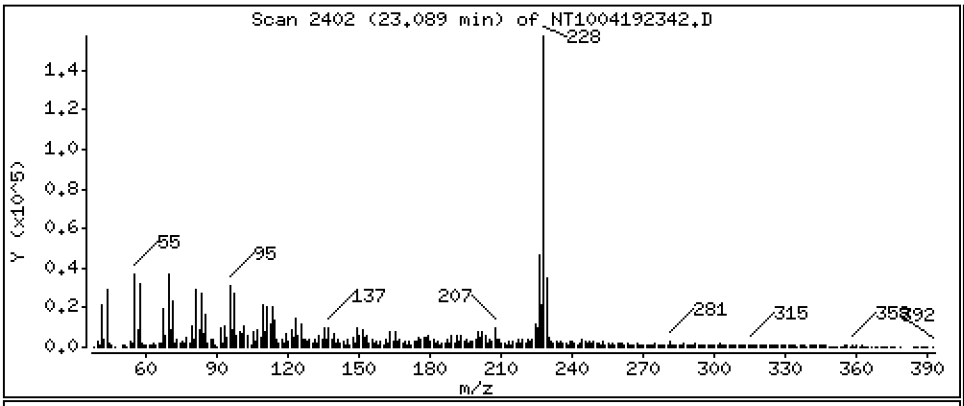
Operator: VTS

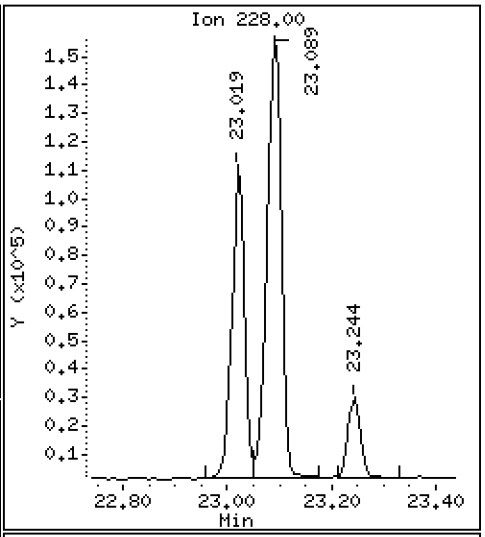
Column phase: ZB-5msi

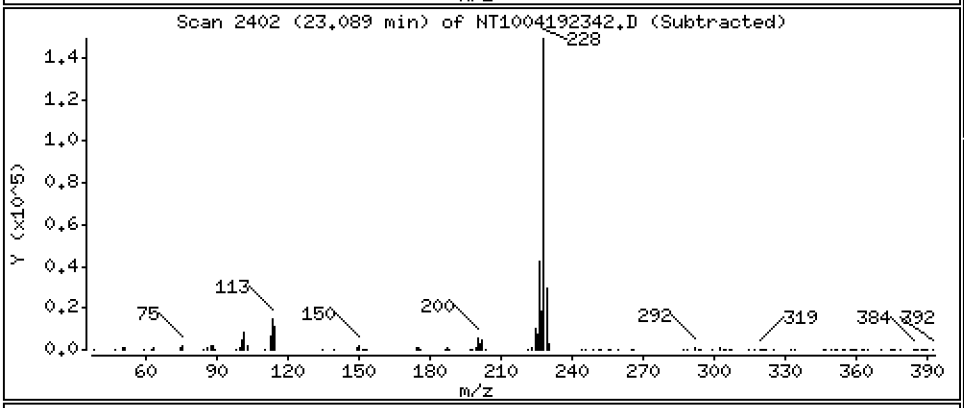
Column diameter: 0.25

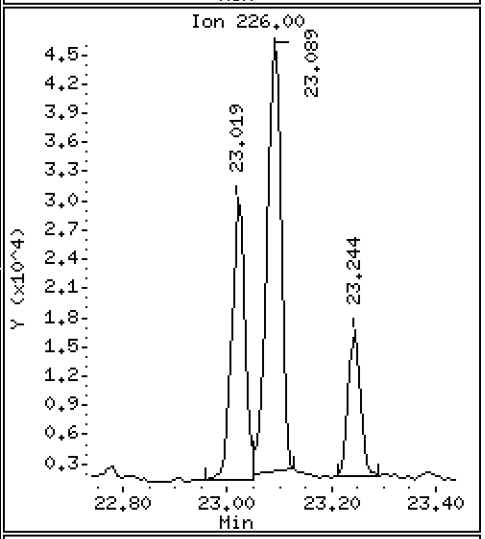
71 Chrysene

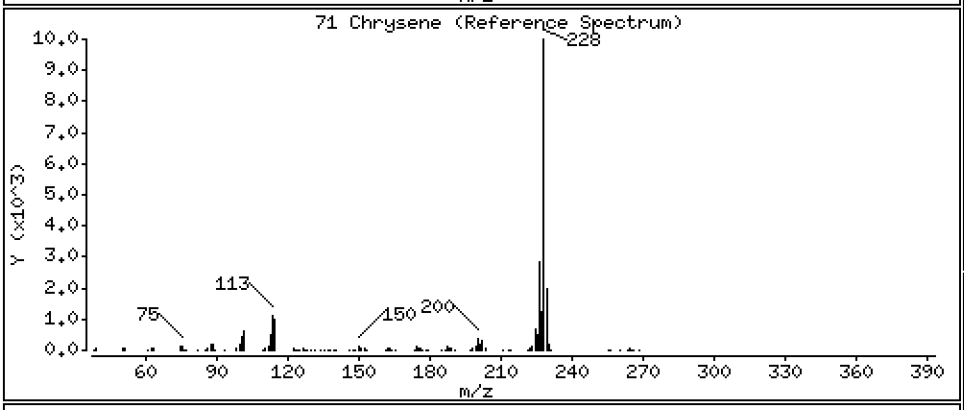
Concentration: 1.366 ug/mL

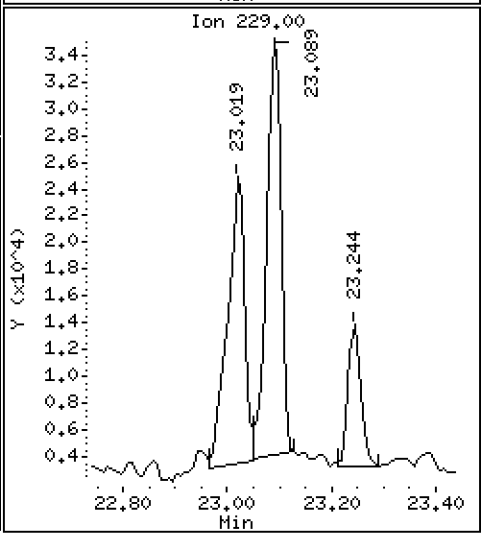


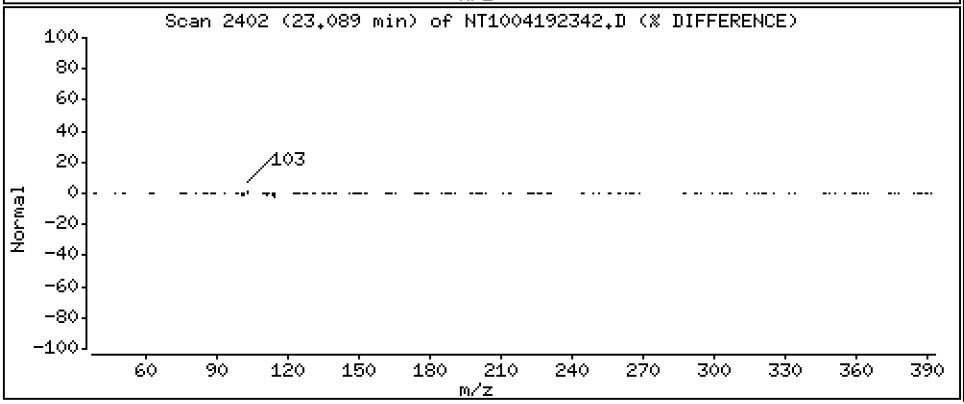












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

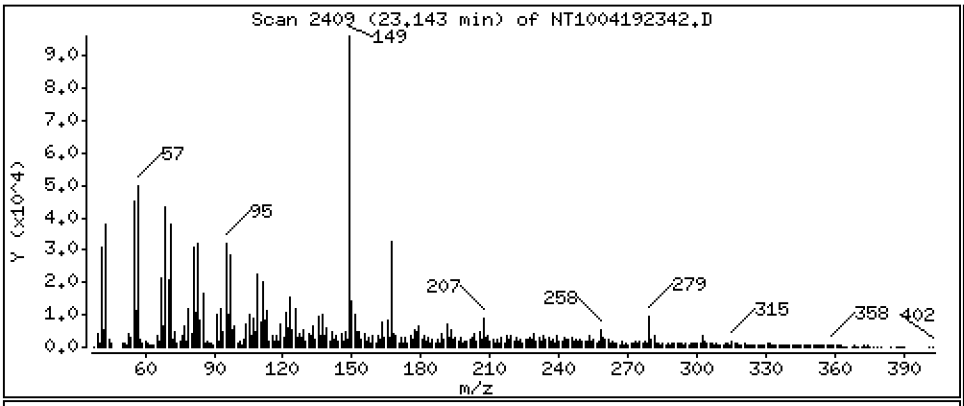
Operator: VTS

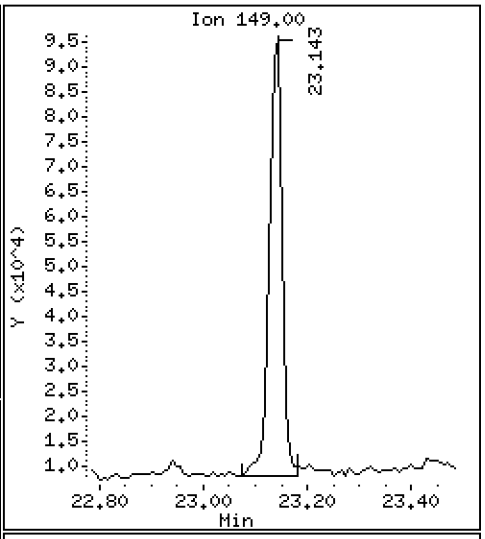
Column phase: ZB-5msi

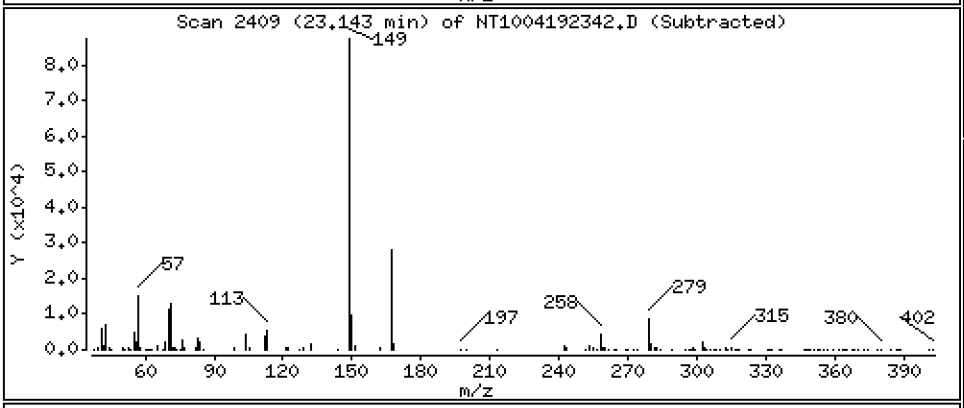
Column diameter: 0.25

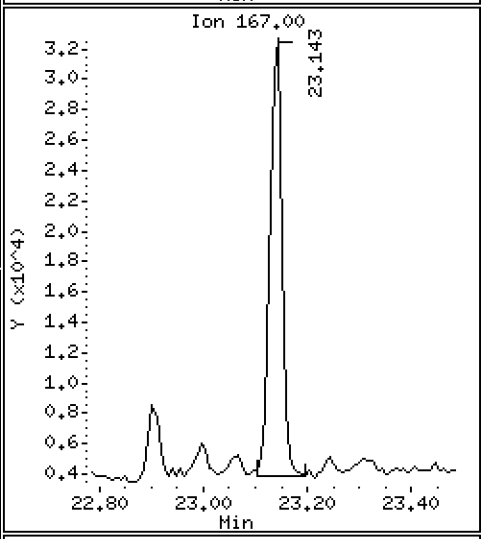
72 bis(2-Ethylhexyl)phthalate

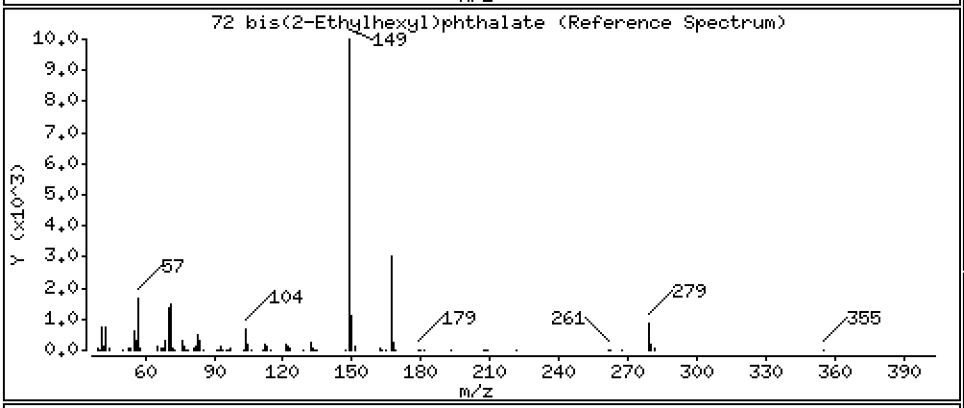
Concentration: 1.072 ug/mL

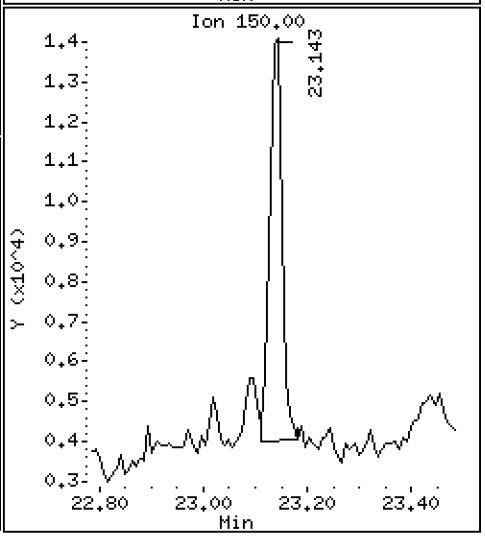


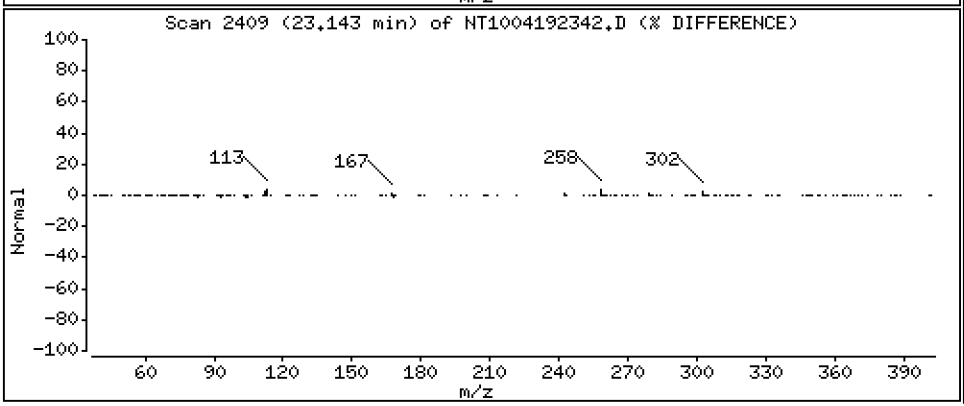












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

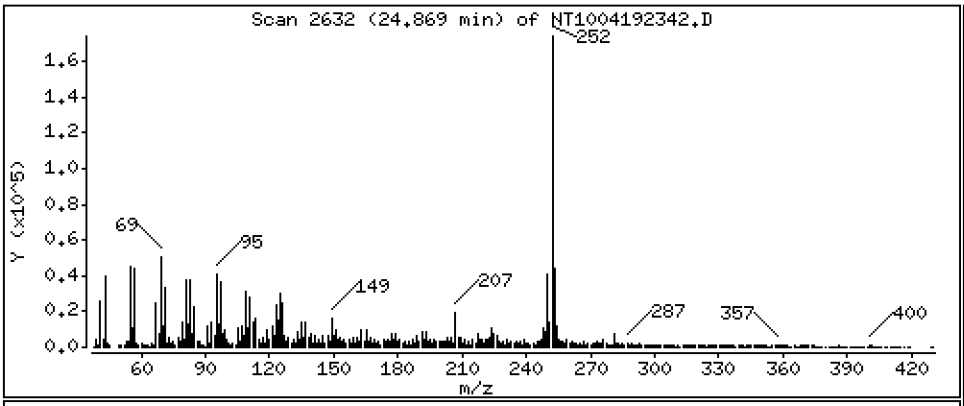
Operator: VTS

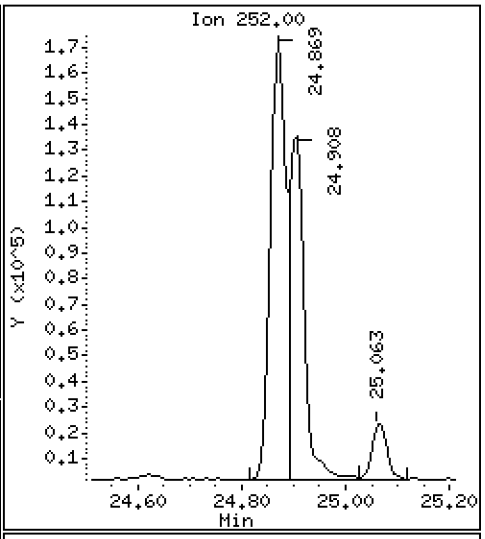
Column phase: ZB-5msi

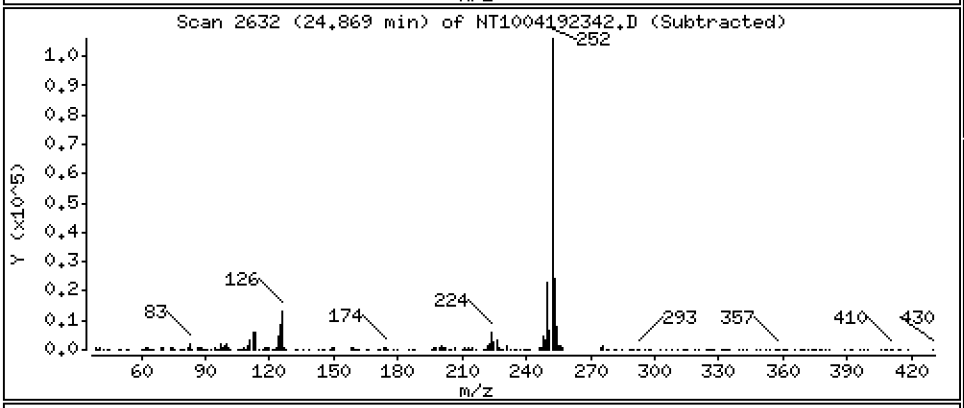
Column diameter: 0.25

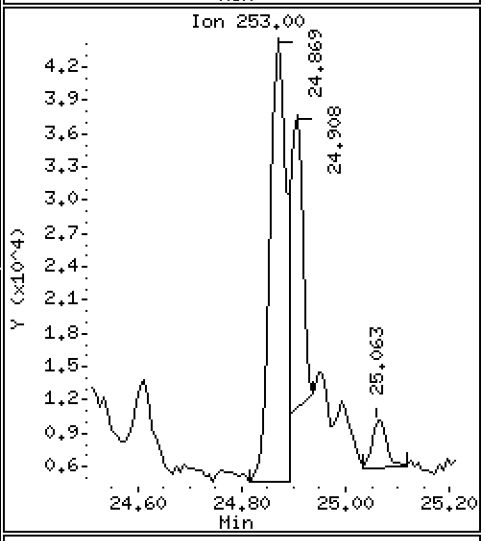
74 Benzo(b)fluoranthene

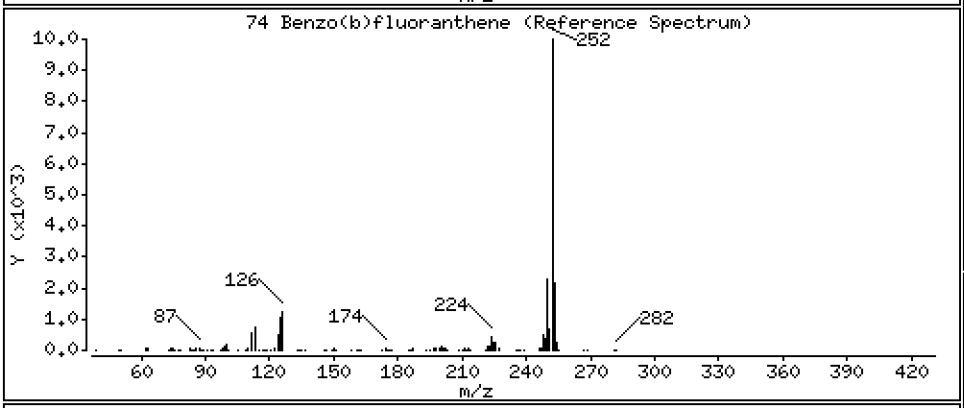
Concentration: 1.655 ug/mL

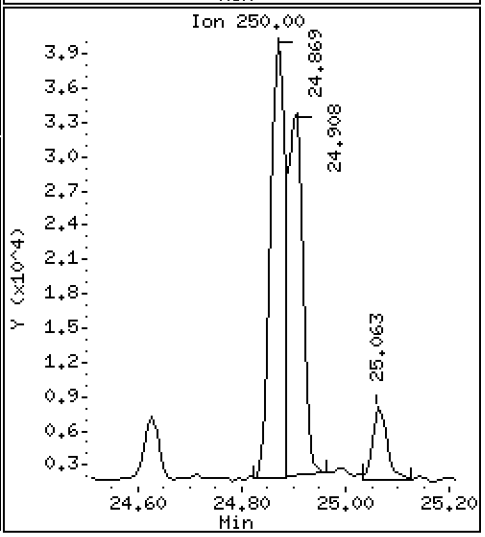


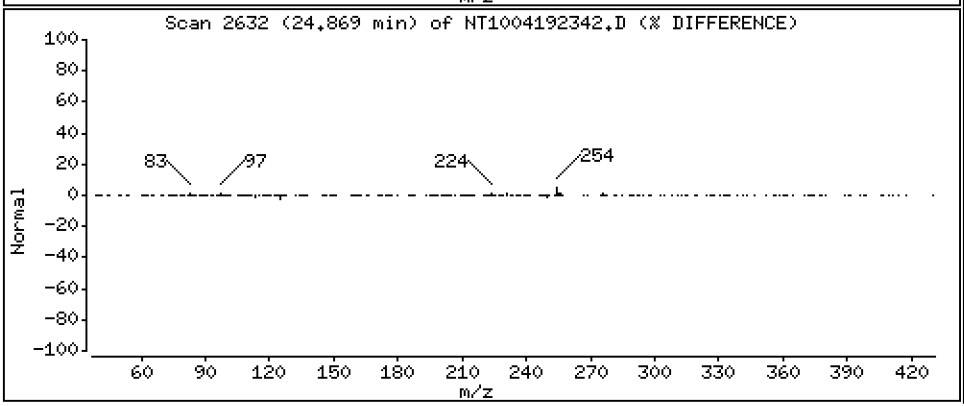












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

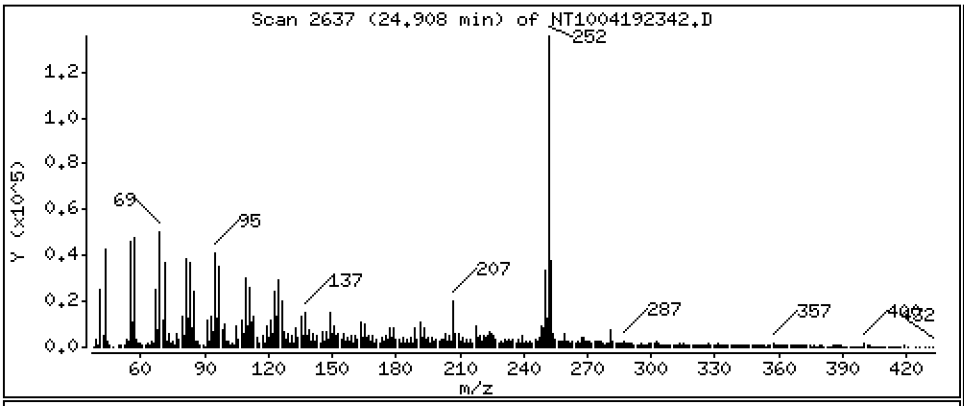
Operator: VTS

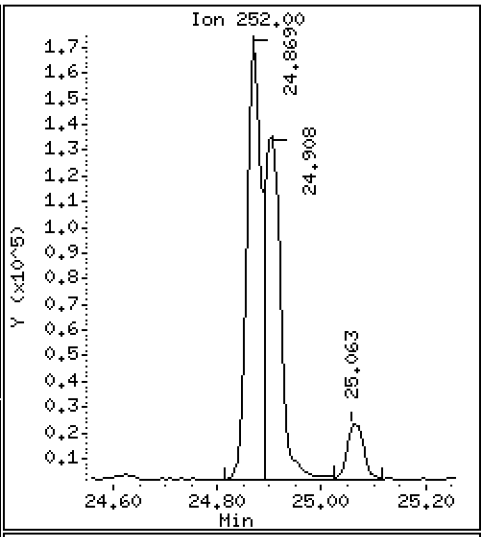
Column phase: ZB-5msi

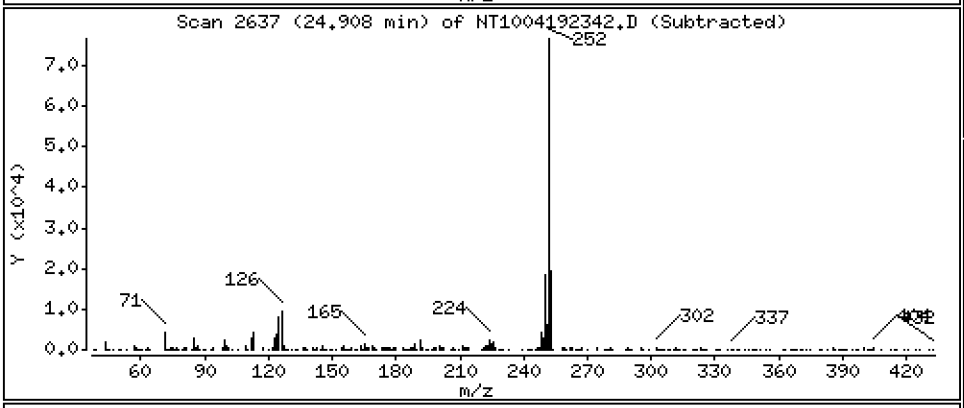
Column diameter: 0.25

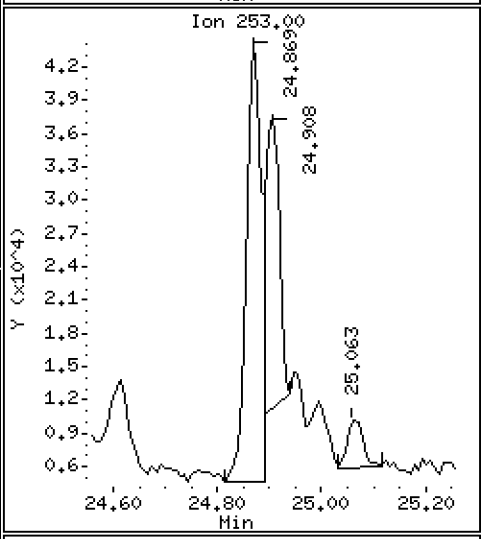
75 Benzo(k)fluoranthene

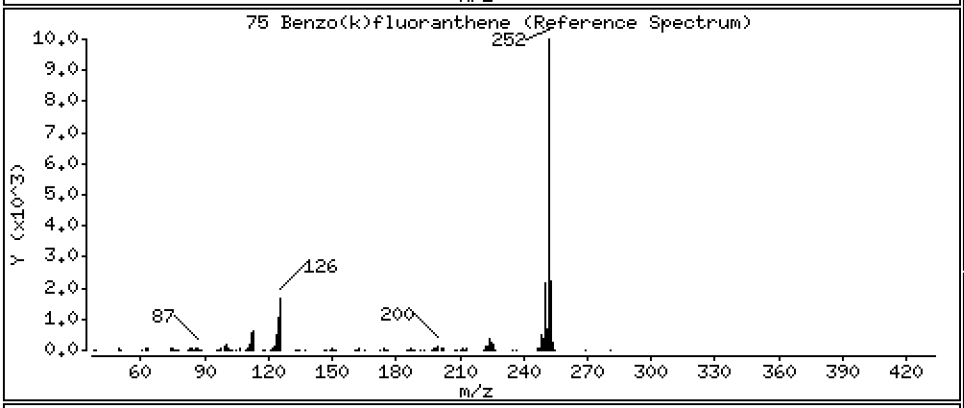
Concentration: 1.227 ug/mL

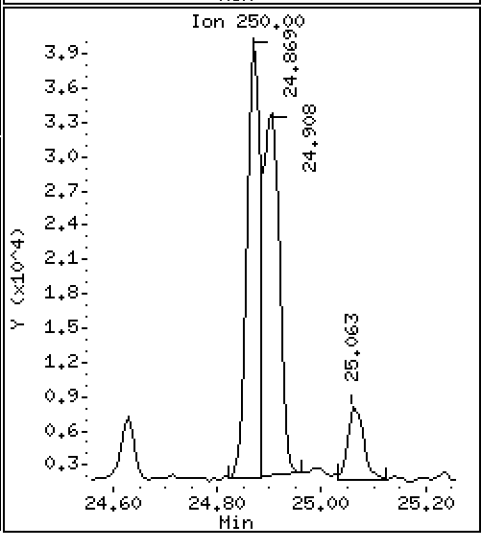


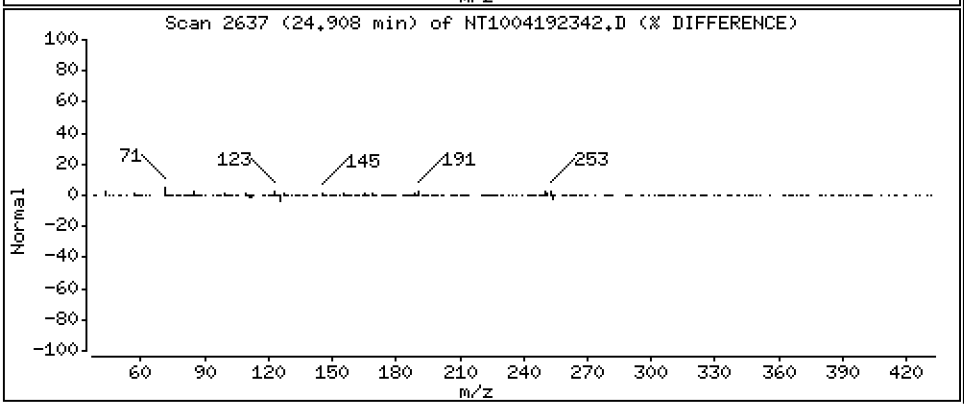












Date : 20-APR-2023 13:24

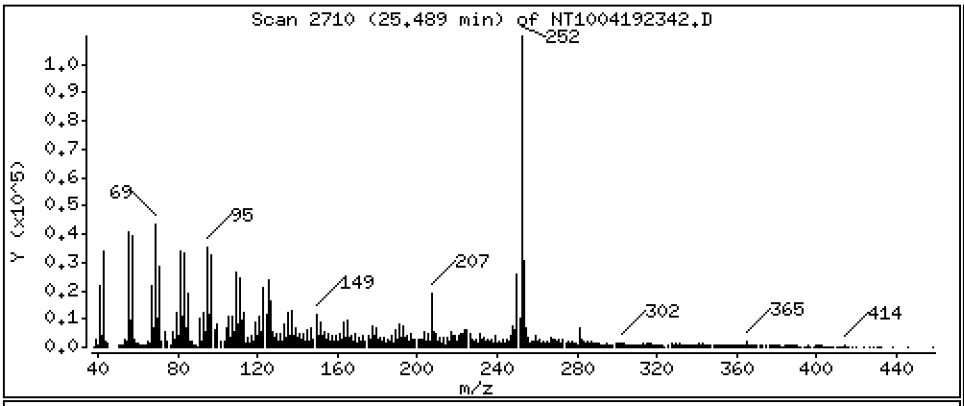
Client ID: Instrument: nt10.i

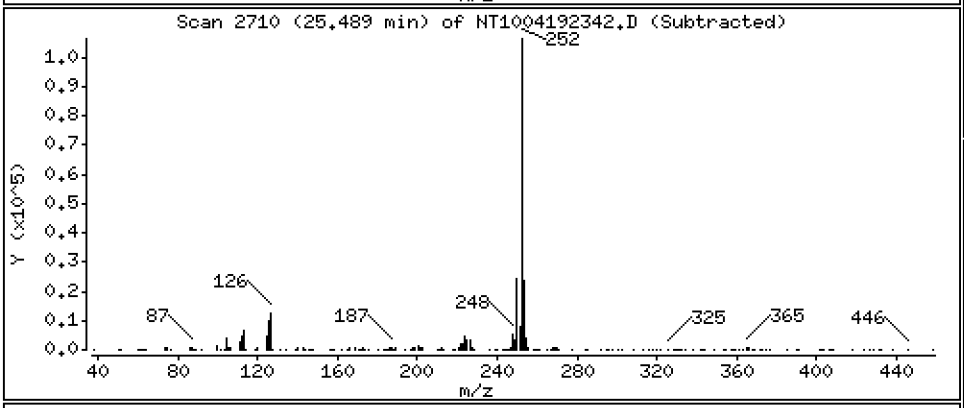
Sample Info: 23C0752-02

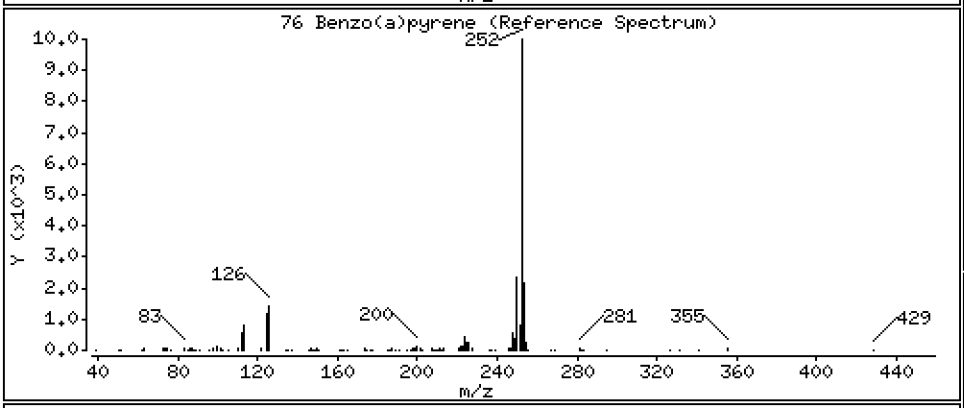
Operator: VTS

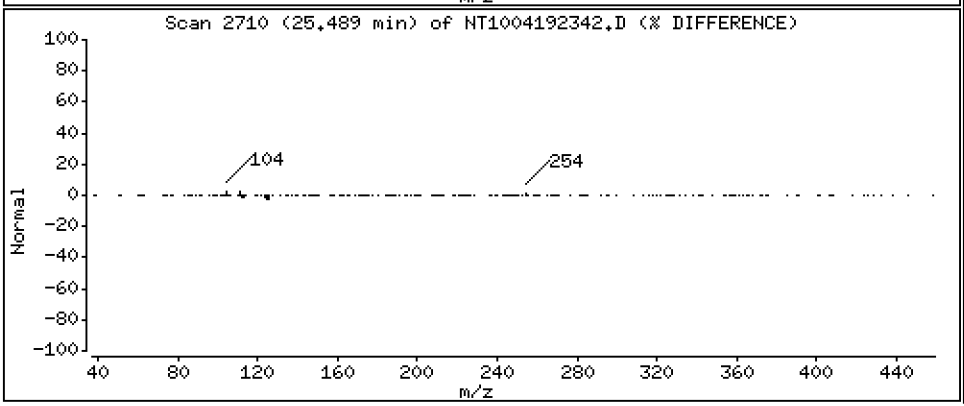
Column phase: ZB-5msi Column diameter: 0.25

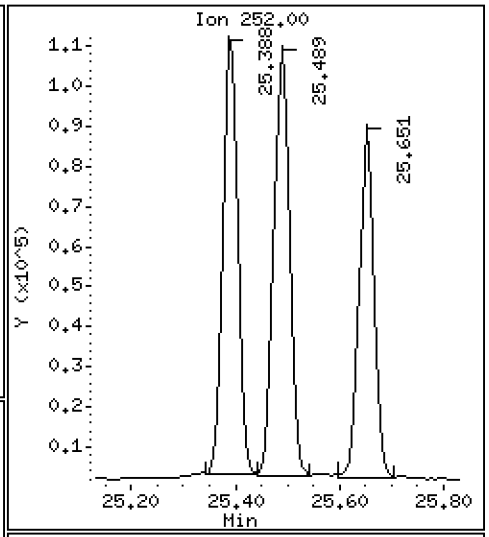
76 Benzo(a)pyrene Concentration: 1.108 ug/mL

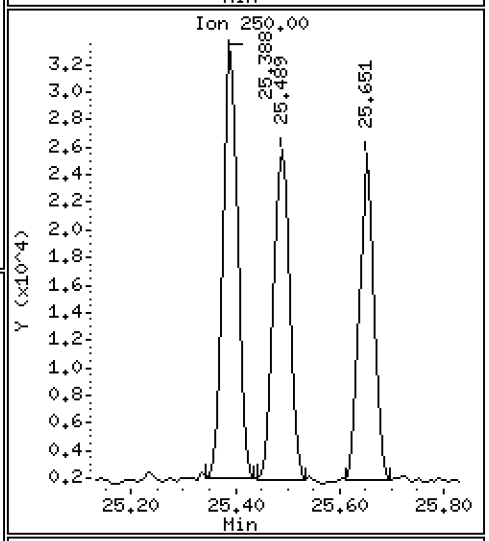


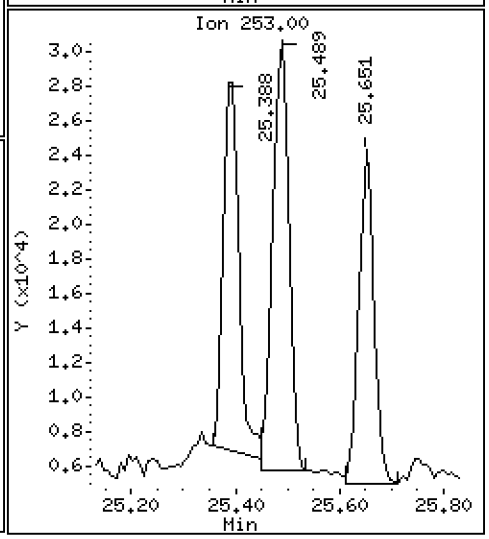












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

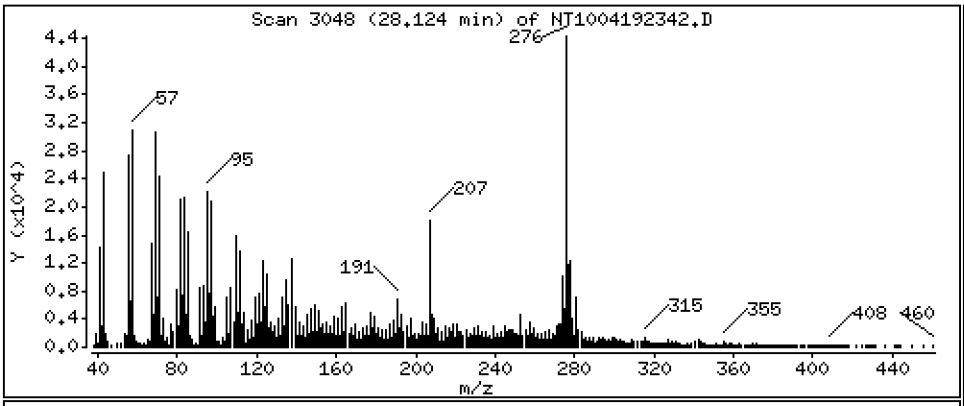
Operator: VTS

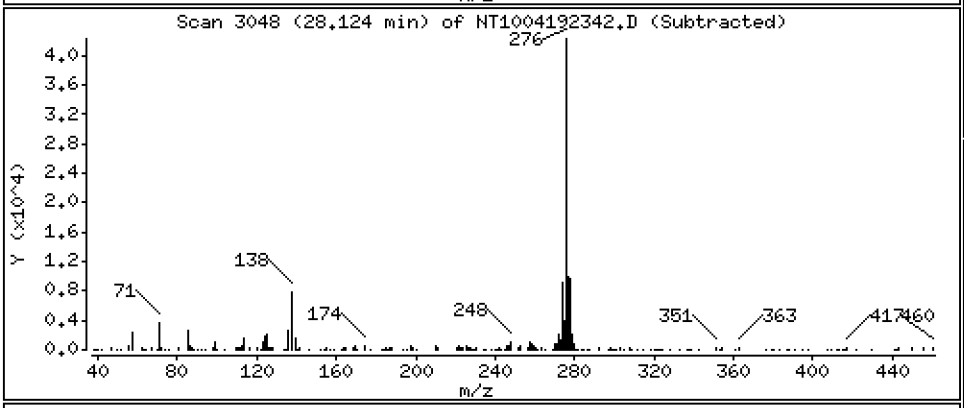
Column phase: ZB-5msi

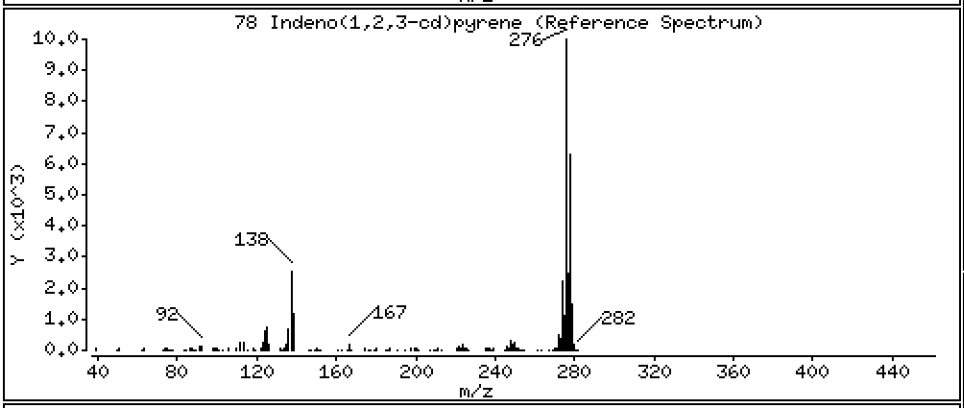
Column diameter: 0.25

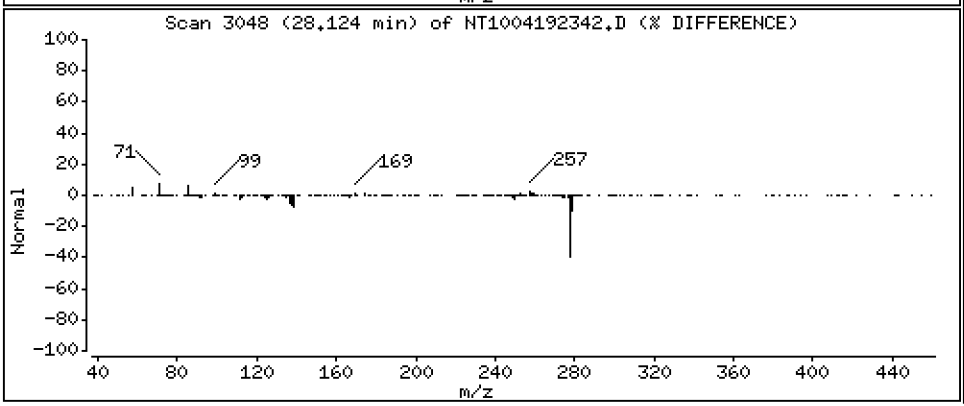
78 Indeno(1,2,3-cd)pyrene

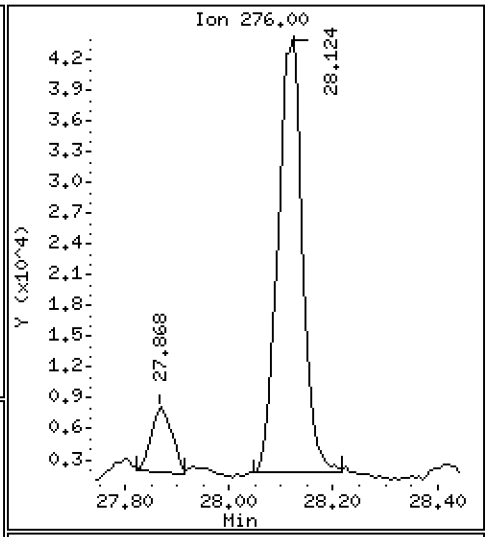
Concentration: 0.5623 ug/mL

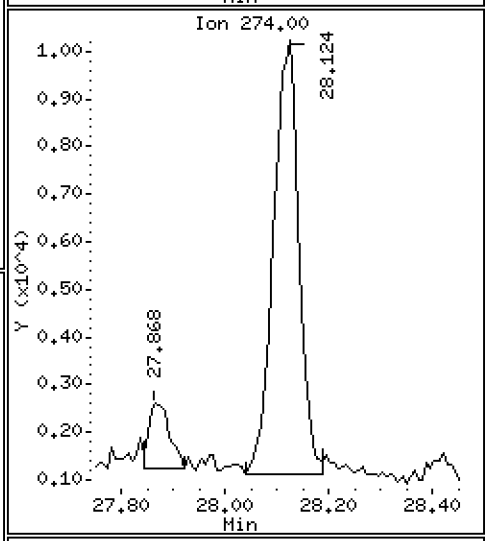


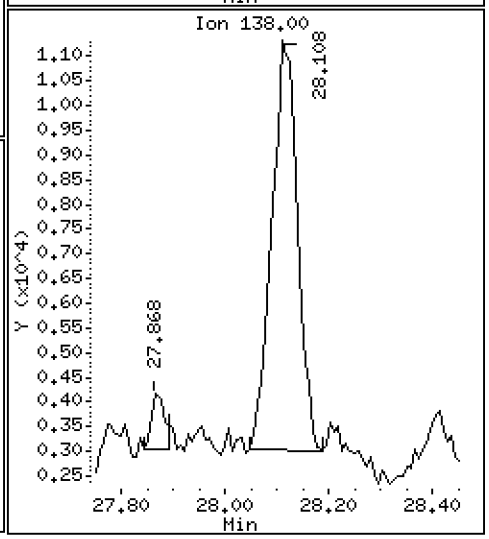












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

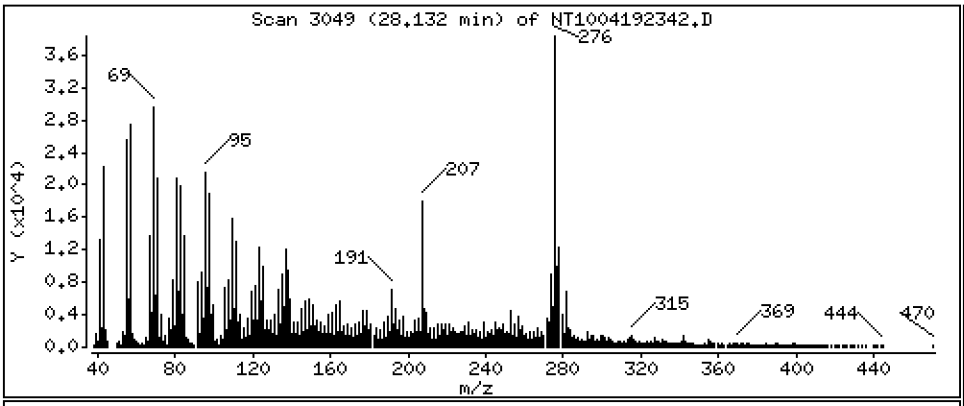
Operator: VTS

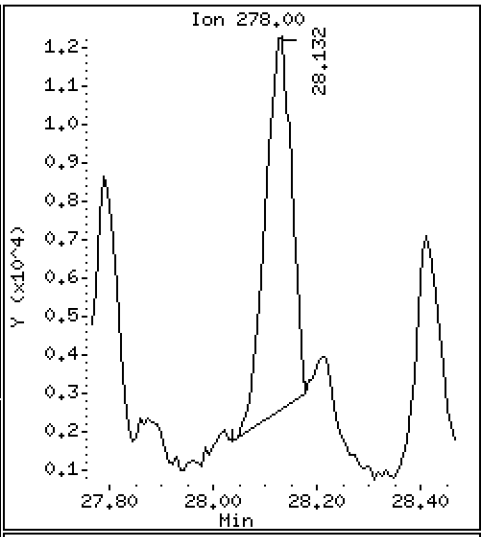
Column phase: ZB-5msi

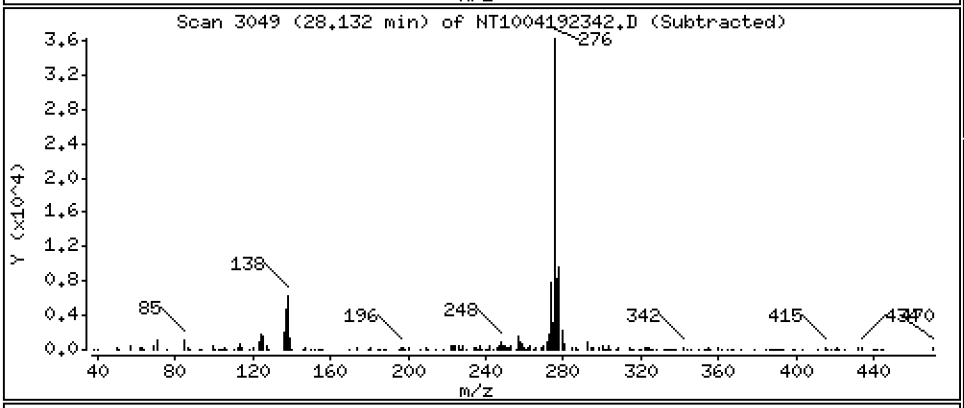
Column diameter: 0.25

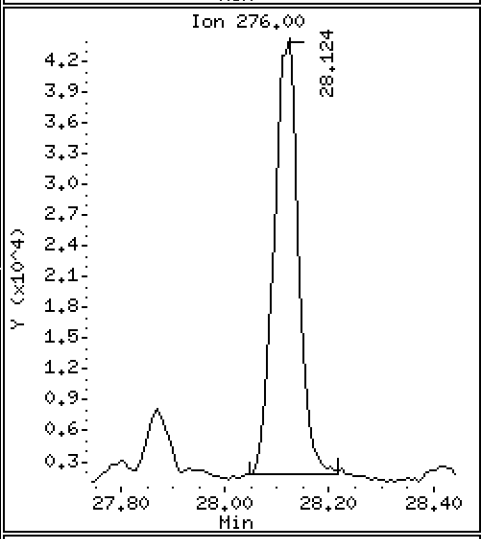
79 Dibenzo(a,h)anthracene

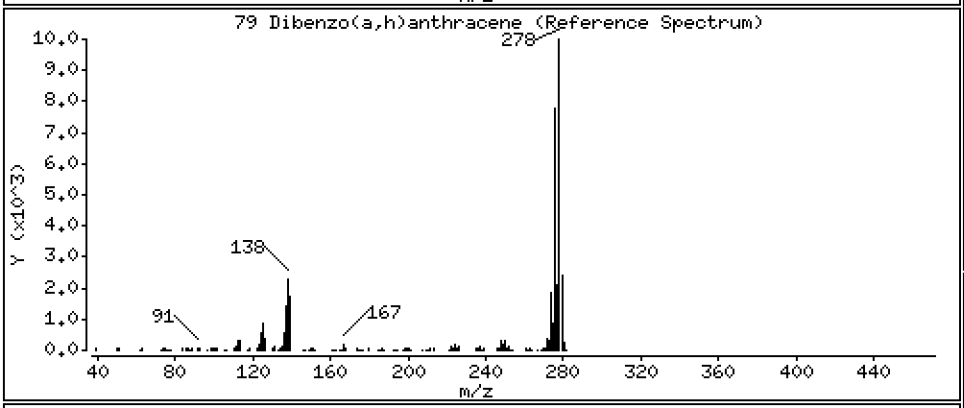
Concentration: 0.1635 ug/mL

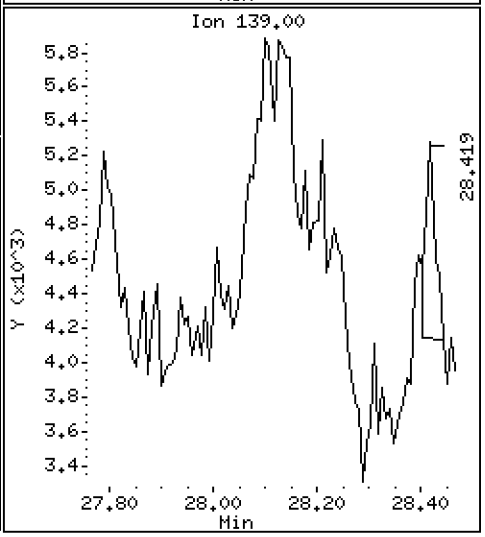


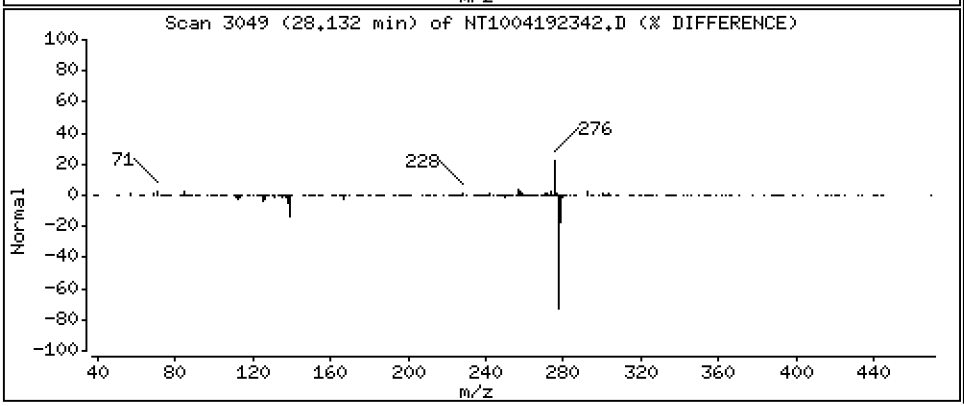












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

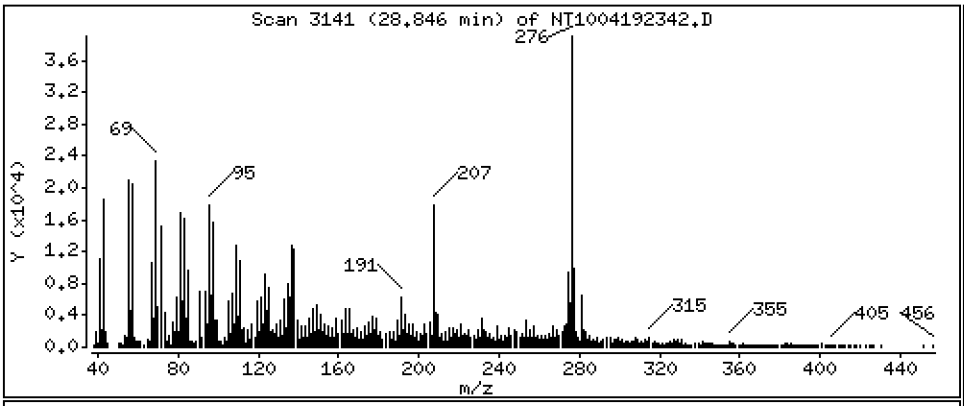
Operator: VTS

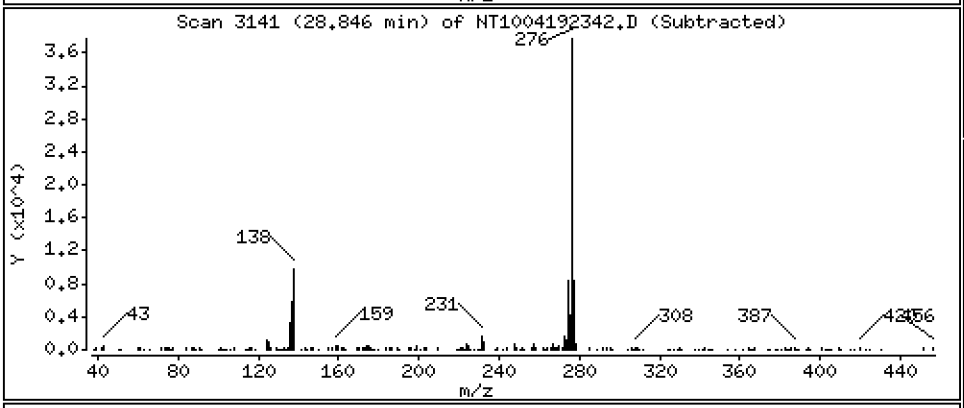
Column phase: ZB-5msi

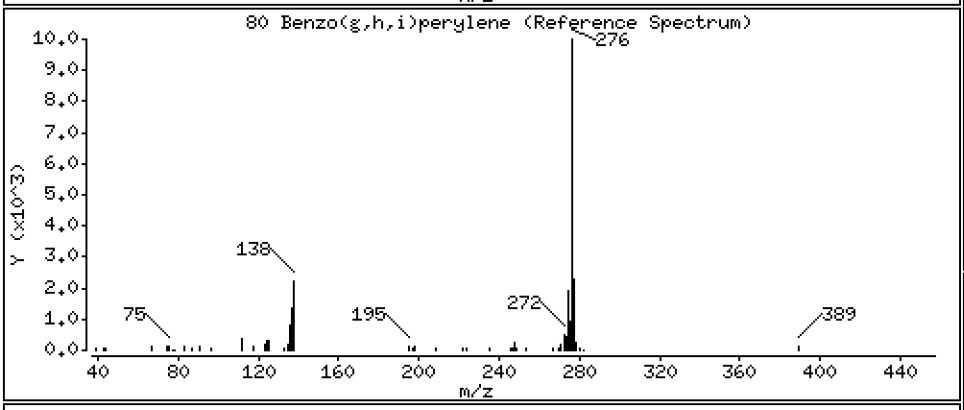
Column diameter: 0.25

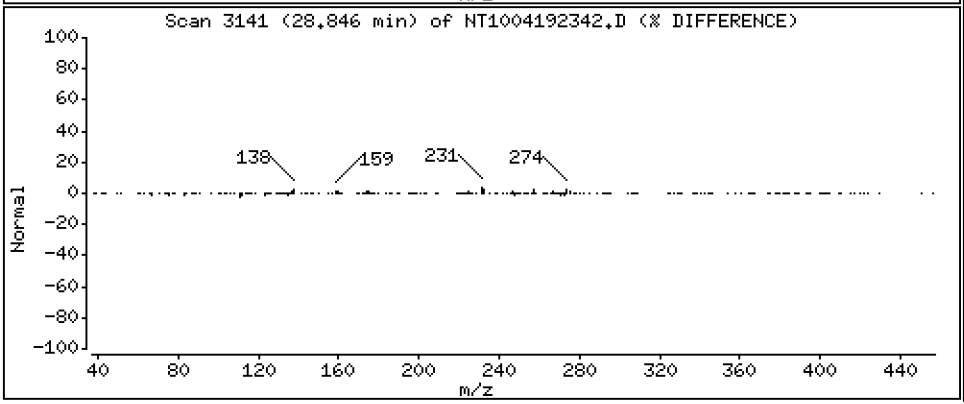
80 Benzo(g,h,i)perylene

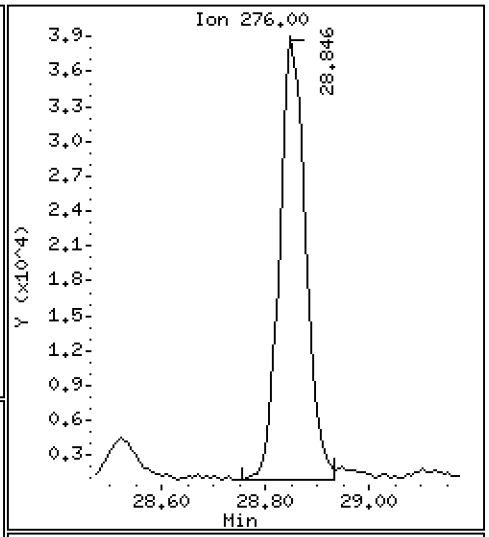
Concentration: 0.6194 ug/mL

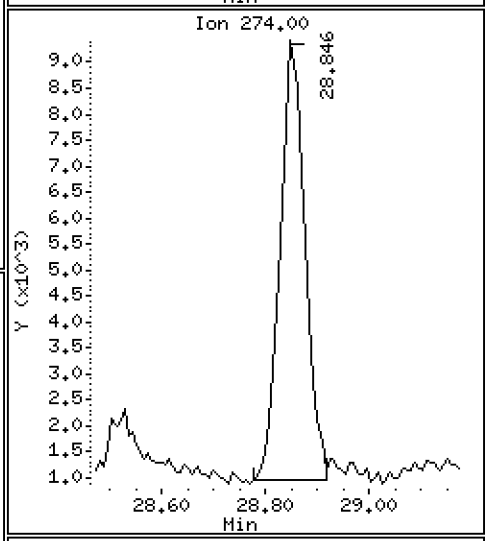


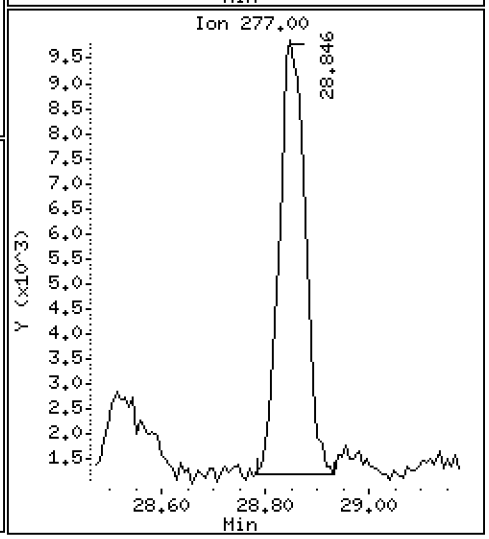












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

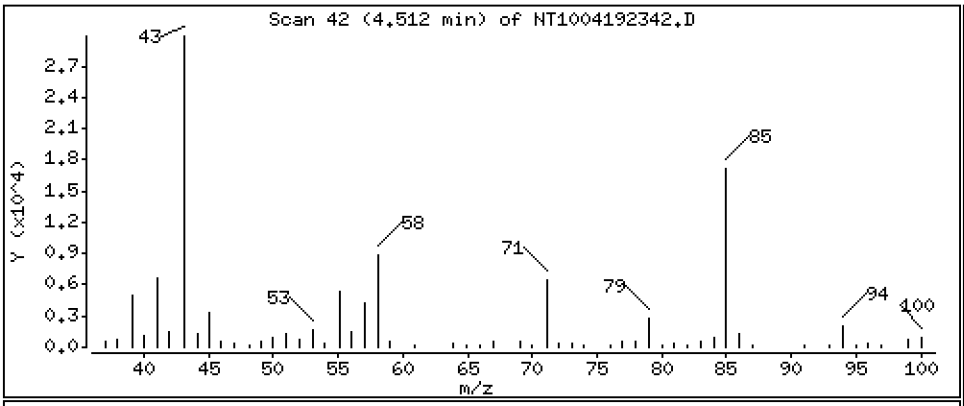
Operator: VTS

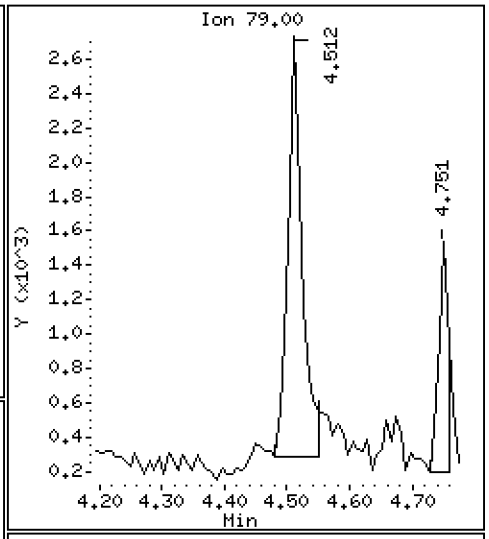
Column phase: ZB-5msi

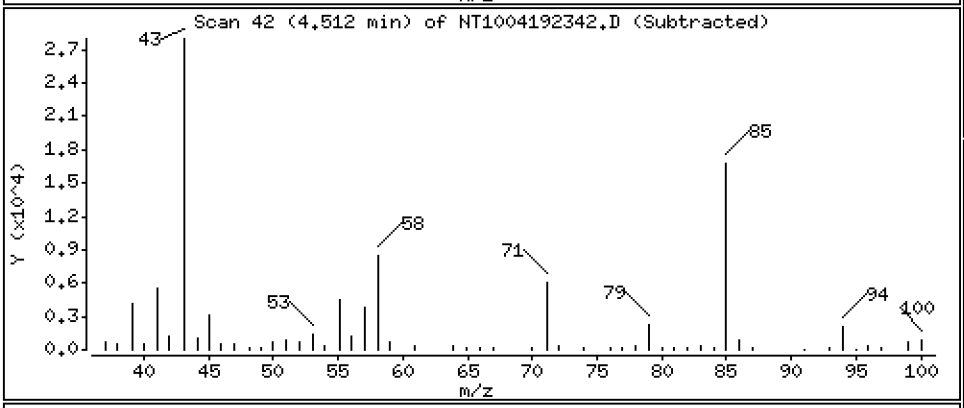
Column diameter: 0.25

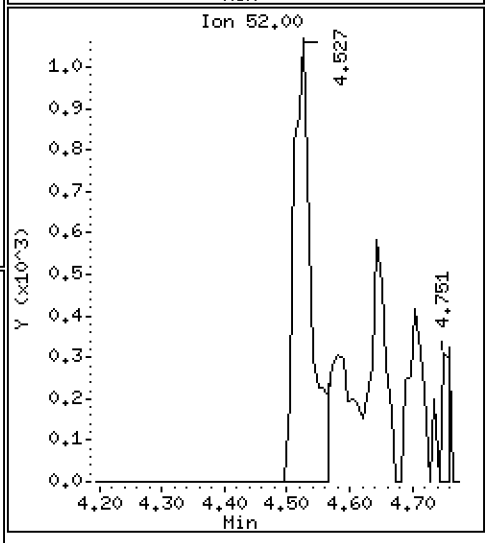
103 Pyridine

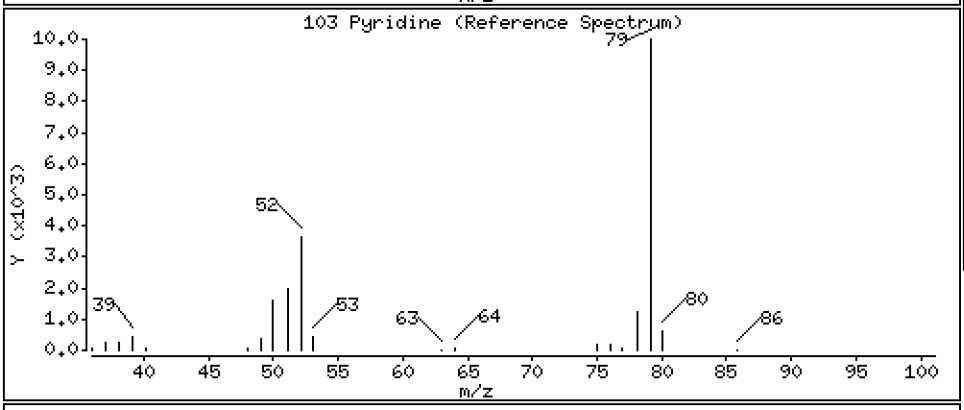
Concentration: 0.08286 ug/mL

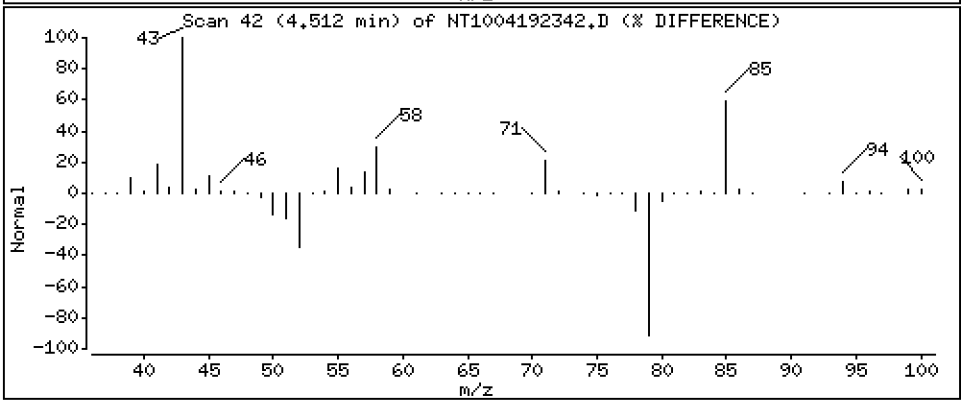












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

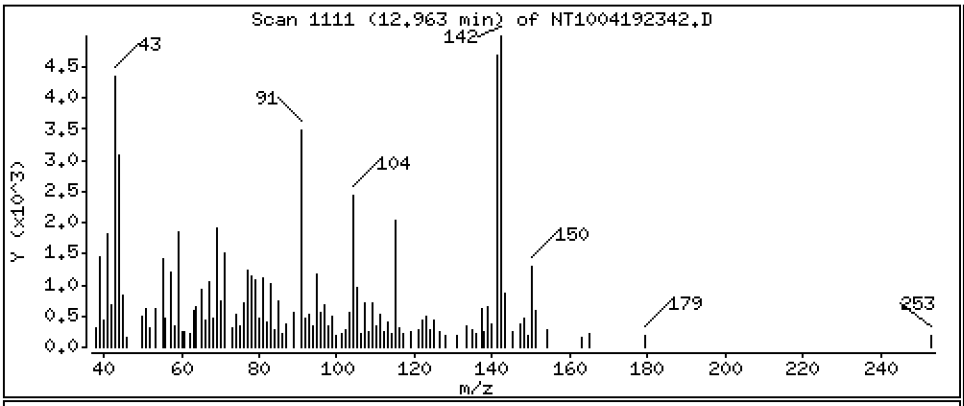
Operator: VTS

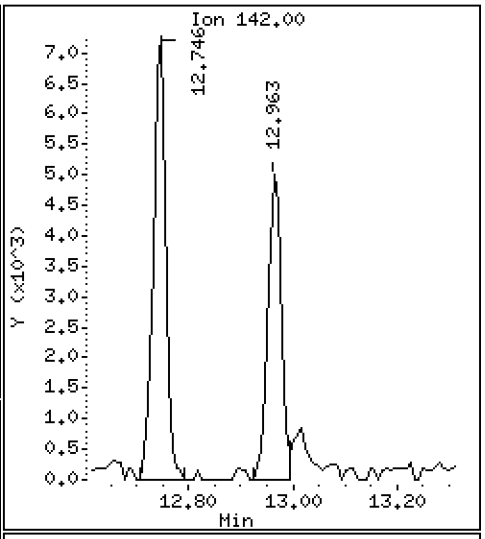
Column phase: ZB-5msi

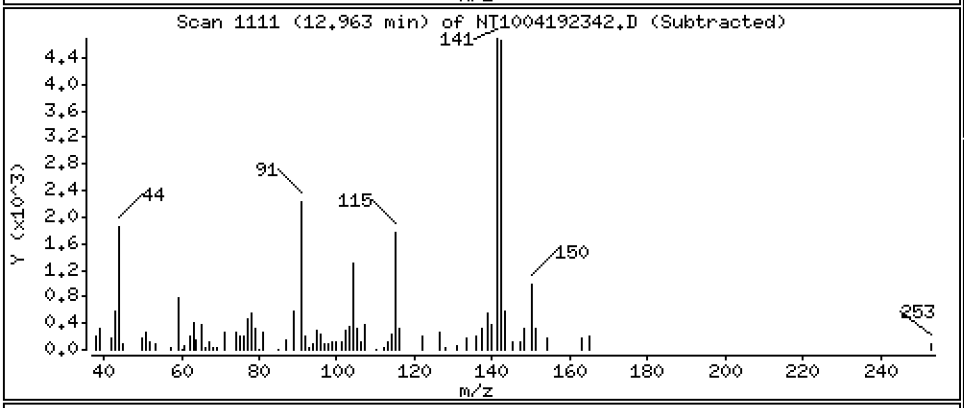
Column diameter: 0.25

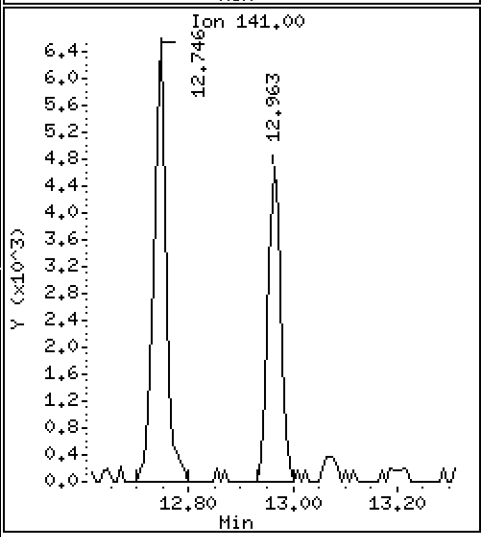
105 1-methylnaphthalene

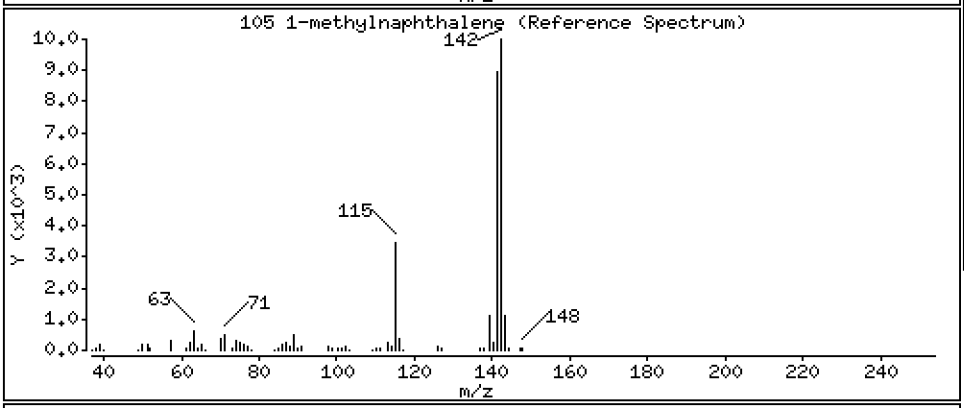
Concentration: 0.08504 ug/mL

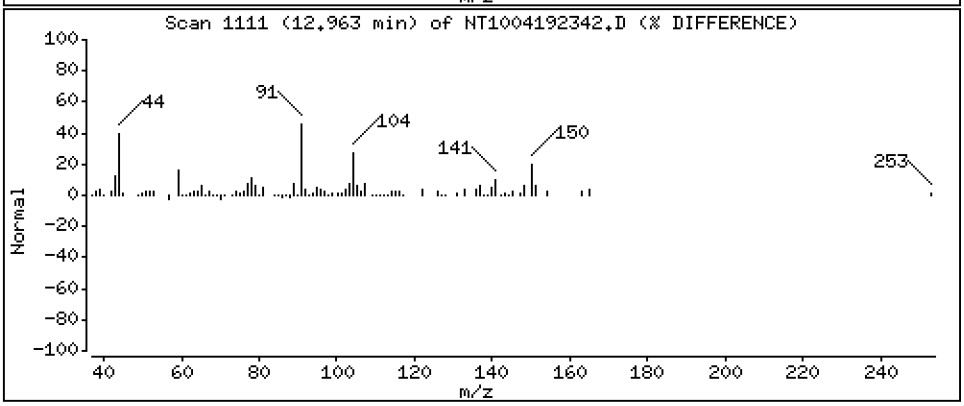












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

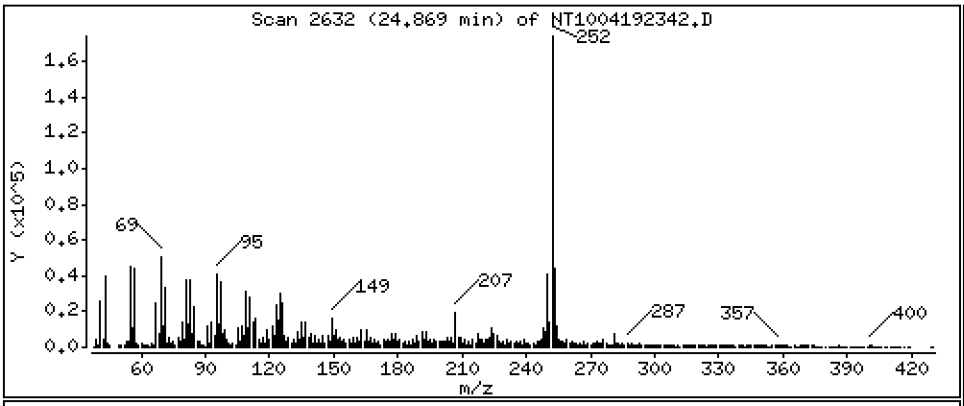
Operator: VTS

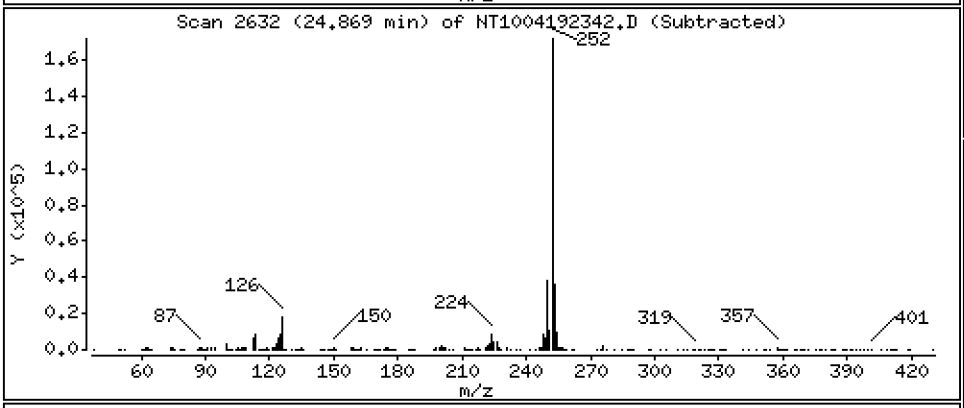
Column phase: ZB-5msi

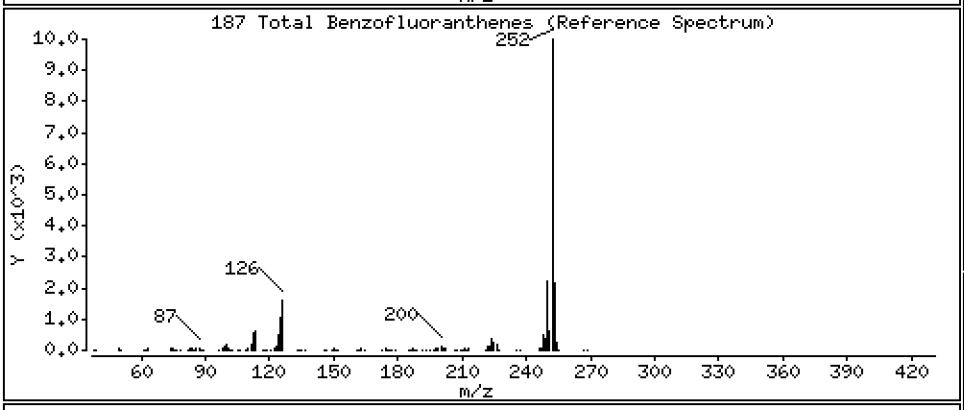
Column diameter: 0.25

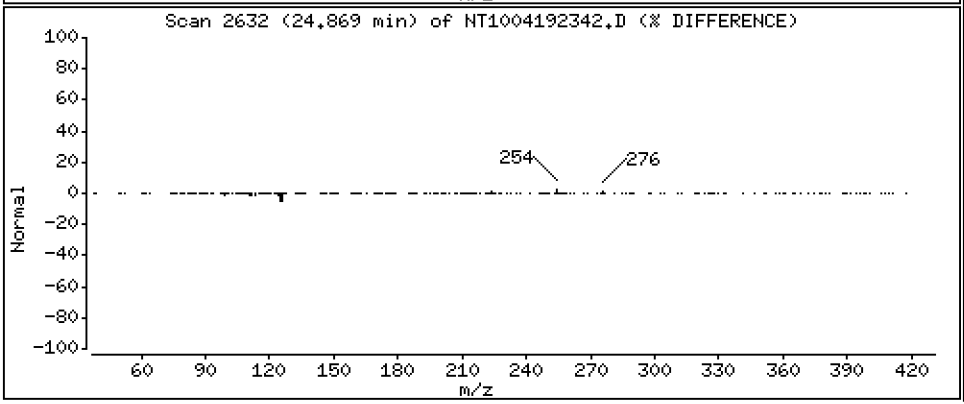
187 Total Benzofluoranthenes

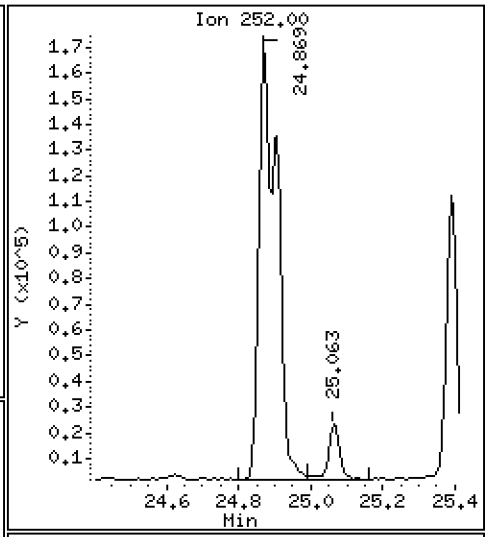
Concentration: 2.760 ug/mL

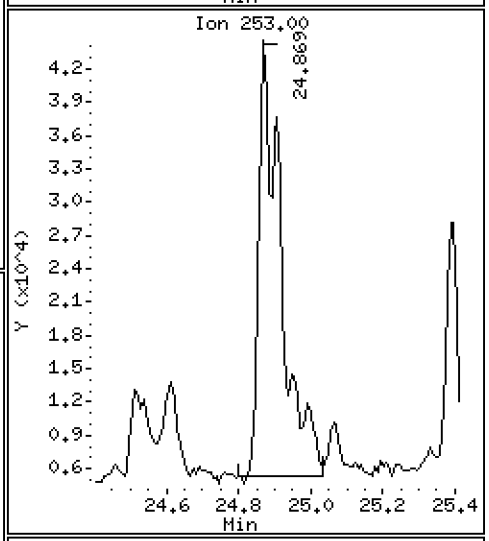


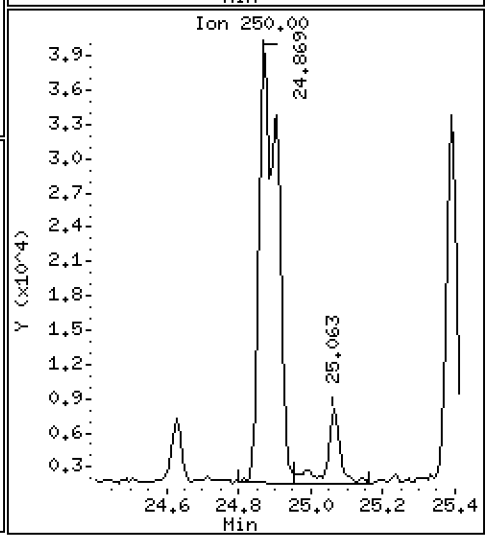












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230419B.b\NT1004192342.D
Lab Smp Id: 23C0752-02
Inj Date : 20-APR-2023 13:24
Operator : VTS Inst ID: nt10.i
Smp Info : 23C0752-02
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Meth Date : 21-Apr-2023 11:46 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1	2-Fluorophenol	112	6.628	6.612	(0.751)	220868	4.63341	4.633
$	2	Phenol-d5	99	8.219	8.219	(0.931)	292815	4.68249	4.682
	3	Phenol	94	8.242	8.235	(0.933)	19938	0.30682	0.3068
$	5	2-Chlorophenol-d4	132	8.474	8.474	(0.960)	298936	5.59809	5.598
	4	Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6	2-Chlorophenol	128	Compound Not Detected.					
	7	1,3-Dichlorobenzene	146	8.854	8.761	(1.003)	1267	0.02155	0.02155
*	8	1,4-Dichlorobenzene-d4	152	8.830	8.830	(1.000)	157628	4.00000	
	9	1,4-Dichlorobenzene	146	8.854	8.861	(1.003)	1267	0.02231	0.02231
$	10	1,2-Dichlorobenzene-d4	152	9.187	9.187	(1.040)	119821	3.12448	3.124
	12	1,2-Dichlorobenzene	146	Compound Not Detected.					
	11	Benzyl alcohol	108	9.110	9.110	(1.032)	11674	0.38274	0.3827
	14	2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13	2-Methylphenol	108	9.358	9.343	(1.060)	1258	0.02656	0.02656
	17	Hexachloroethane	117	Compound Not Detected.					
	16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15	4-Methylphenol	108	9.630	9.622	(1.091)	4090	0.08194	0.08194
$	18	Nitrobenzene-d5	82	9.925	9.925	(0.878)	180990	3.08993	3.090
	19	Nitrobenzene	77	Compound Not Detected.					
	20	Isophorone	82	Compound Not Detected.					
	21	2-Nitrophenol	139	Compound Not Detected.					
	22	2,4-Dimethylphenol	107	Compound Not Detected.					
	23	Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24	Benzoic acid	105	10.787	10.897	(0.954)	19787	0.67410	0.6741
	25	2,4-Dichlorophenol	162	Compound Not Detected.					
	26	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27	Naphthalene-d8	136	11.307	11.307	(1.000)	580308	4.00000	
	28	Naphthalene	128	11.346	11.353	(1.003)	22522	0.14650	0.1465
	29	4-Chloroaniline	127	Compound Not Detected.					
	30	Hexachlorobutadiene	225	Compound Not Detected.					
	31	4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32	2-Methylnaphthalene	142	12.746	12.746	(1.127)	12132	0.10935	0.1094
	33	Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.527	13.527	(0.907)	434902	3.27253	3.273
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	14.441	14.441	(0.968)	5213	0.04777	0.04777
	40	Acenaphthylene	152	14.603	14.603	(0.979)	15664	0.09342	0.09342
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	14.913	14.913	(1.000)	335956	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	14.982	14.982	(1.005)	8419	0.08127	0.08127
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	15.307	15.307	(1.026)	14180	0.09283	0.09283
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	15.895	15.902	(1.066)	37407	0.34933	0.3493
	49	Fluorene	166	16.018	16.018	(1.074)	12100	0.10068	0.1007
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	16.558	16.558	(1.110)	97158	6.19672	6.197
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	17.949	17.949	(1.000)	602290	4.00000	
	60	Phenanthrene	178	17.996	17.996	(1.003)	112430	0.68458	0.6846
	61	Anthracene	178	18.089	18.089	(1.008)	55356	0.35138	0.3514
	62	Carbazole	167	18.437	18.429	(1.027)	16157	0.11445	0.1145
	63	Di-n-butylphthalate	149	19.272	19.265	(1.074)	8892	0.04684	0.04684
	64	Fluoranthene	202	20.433	20.402	(0.886)	318168	1.31175	1.312
	65	Pyrene	202	20.843	20.827	(0.904)	411928	1.65555	1.656
$	66	Terphenyl-d14	244	21.145	21.137	(0.917)	557322	2.98263	2.983
	67	Butylbenzylphthalate	149	Compound Not Detected.					
	68	Benzo(a)anthracene	228	23.019	23.019	(0.999)	180620	0.84772	0.8477
*	69	Chrysene-d12	240	23.049	23.042	(1.000)	603639	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.088	23.088	(1.002)	284285	1.36569	1.366
	72	bis(2-Ethylhexyl)phthalate	149	23.142	23.135	(0.959)	144340	1.07228	1.072
*	134	Di-n-octylphthalate-d4	153	24.126	24.126	(1.000)	919850	4.00000	
	73	Di-n-octylphthalate	149	Compound Not Detected.					
	74	Benzo(b)fluoranthene	252	24.869	24.861	(0.971)	369081	1.65500	1.655
	75	Benzo(k)fluoranthene	252	24.907	24.908	(0.973)	277877	1.22711	1.227
	76	Benzo(a)pyrene	252	25.488	25.481	(0.995)	220911	1.10797	1.108
*	77	Perylene-d12	264	25.604	25.589	(1.000)	687983	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.123	28.092	(1.098)	142641	0.56232	0.5623
	79	Dibenzo(a,h)anthracene	278	28.131	28.116	(1.099)	34439	0.16353	0.1635(M)
	80	Benzo(g,h,i)perylene	276	28.846	28.822	(1.127)	135977	0.61941	0.6194
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	4.511	4.426	(0.511)	3870	0.08286	0.08286
	105	1-methylnaphthalene	142	12.962	12.962	(1.146)	8644	0.08504	0.08504
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	24.869	24.908	(0.971)	594209	2.75963	2.760
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192342.D
Lab Smp Id: 23C0752-02
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Misc Info:

Calibration Date: 20-APR-2023
Calibration Time: 07:41
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	129725	64863	259450	157628	21.51
27 Naphthalene-d8	475671	237836	951342	580308	22.00
42 Acenaphthene-d10	277889	138945	555778	335956	20.90
59 Phenanthrene-d10	485346	242673	970692	602290	24.09
69 Chrysene-d12	453075	226538	906150	603639	33.23
134 Di-n-octylphthala	697265	348633	1394530	919850	31.92
77 Perylene-d12	538138	269069	1076276	687983	27.85

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.83	8.33	9.33	8.83	-0.00
27 Naphthalene-d8	11.31	10.81	11.81	11.31	-0.00
42 Acenaphthene-d10	14.91	14.41	15.41	14.91	-0.00
59 Phenanthrene-d10	17.95	17.45	18.45	17.95	-0.00
69 Chrysene-d12	23.04	22.54	23.54	23.05	0.03
134 Di-n-octylphthala	24.13	23.63	24.63	24.13	-0.00
77 Perylene-d12	25.59	25.09	26.09	25.60	0.06

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

REVIEW SUMMARY FOR FILE - NT1004192342.D

Lab ID: 23C0752-02
nt10.i, 20230419B.b\ABN.m,   20-APR-2023 13:24

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.003	0.992	0.0105	1,3-Dichlorobenzene
0.954	0.964	-0.0098	Benzoic acid
0.511	0.501	0.0096	Pyridine

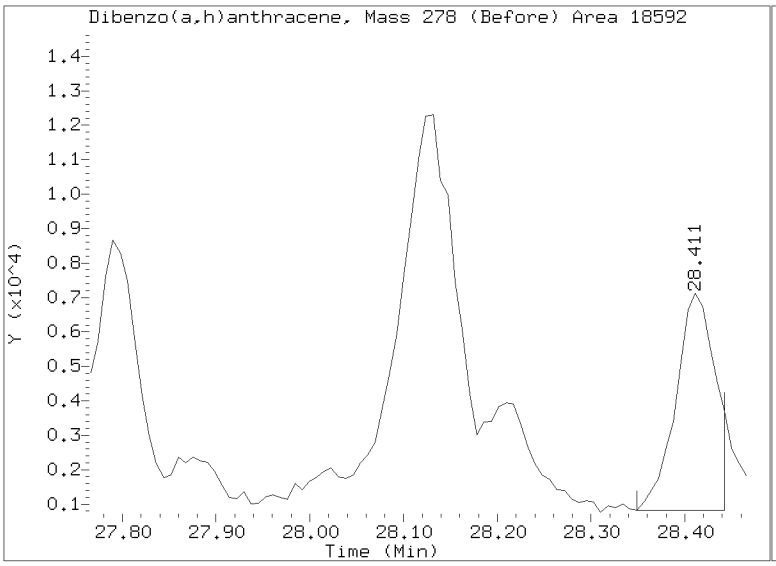
RRT check based on Ccal File: NT1004192333.D

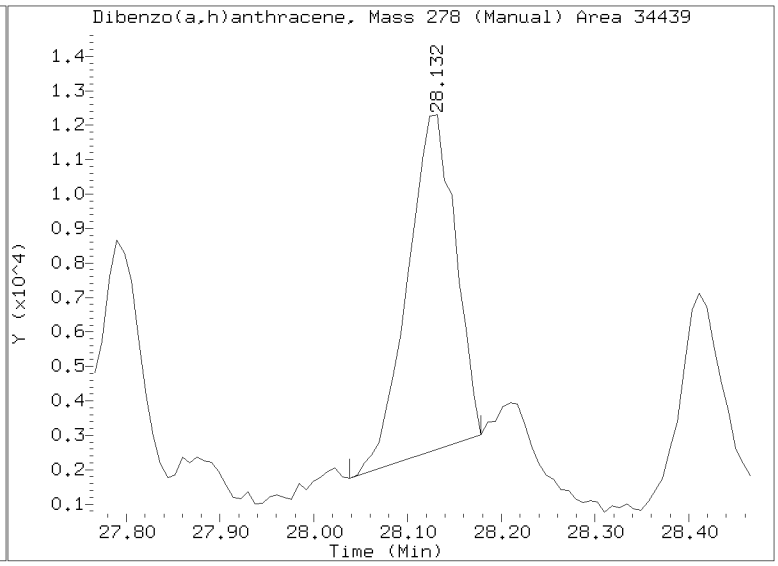
On Column LOD for nt10.i, 20230419B.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230419B.b/NT1004192342.D
Injection Date: 20-APR-2023 13:24
Lab ID:23C0752-02 Client ID:
Report Date: 04/21/2023 11:48





APPROVED

By Deenay Dunmore at 12:53 pm, Apr 21, 2023

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1132

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

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

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-03 A	SDG:	23C0752
Sampled:	03/30/23 11:30	Prepared:	04/03/23 11:31	File ID:	NT1004192343.D
% Solids:	50.66	Preparation:	EPA 3546 (Microwave)	Analyzed:	04/20/23 14:02
Batch:	BLD0008	Sequence:	SLD0293	Initial/Final:	19.76 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00046
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
108-95-2	Phenol	1	11.2	J	4.4	20.0
106-44-5	4-Methylphenol	1	8.4	J	7.4	20.0
91-20-3	Naphthalene	1	11.5	J	4.2	20.0
91-57-6	2-Methylnaphthalene	1	8.9	J	4.5	20.0
208-96-8	Acenaphthylene	1	10.4	J	6.2	20.0
131-11-3	Dimethylphthalate	1	20.0	U	4.4	20.0
83-32-9	Acenaphthene	1	11.6	J	5.2	20.0
132-64-9	Dibenzofuran	1	20.0	U	14.1	20.0
86-73-7	Fluorene	1	20.0	U	14.6	20.0
85-01-8	Phenanthrene	1	70.4		8.7	20.0
120-12-7	Anthracene	1	62.1		7.2	20.0
206-44-0	Fluoranthene	1	220	Q	6.1	20.0
129-00-0	Pyrene	1	202	Q	5.7	20.0
85-68-7	Butylbenzylphthalate	1	20.0	U	9.4	20.0
56-55-3	Benzo(a)anthracene	1	120		6.0	20.0
218-01-9	Chrysene	1	173		6.1	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	65.2		5.5	49.9
	Benzofluoranthenes, Total	1	301		10.0	40.0
50-32-8	Benzo(a)pyrene	1	126		4.2	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	61.0		14.6	20.0
53-70-3	Dibenzo(a,h)anthracene	1	20.5		17.2	20.0
191-24-2	Benzo(g,h,i)perylene	1	64.8	Q	13.6	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	749.22	471	62.9	27 - 120	
Phenol-d5	749.22	460	61.4	29 - 120	
2-Chlorophenol-d4	749.22	568	75.9	31 - 120	
1,2-Dichlorobenzene-d4	499.48	319	64.0	32 - 120	
Nitrobenzene-d5	499.48	310	62.0	30 - 120	
2-Fluorobiphenyl	499.48	325	65.0	35 - 120	

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1132

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

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

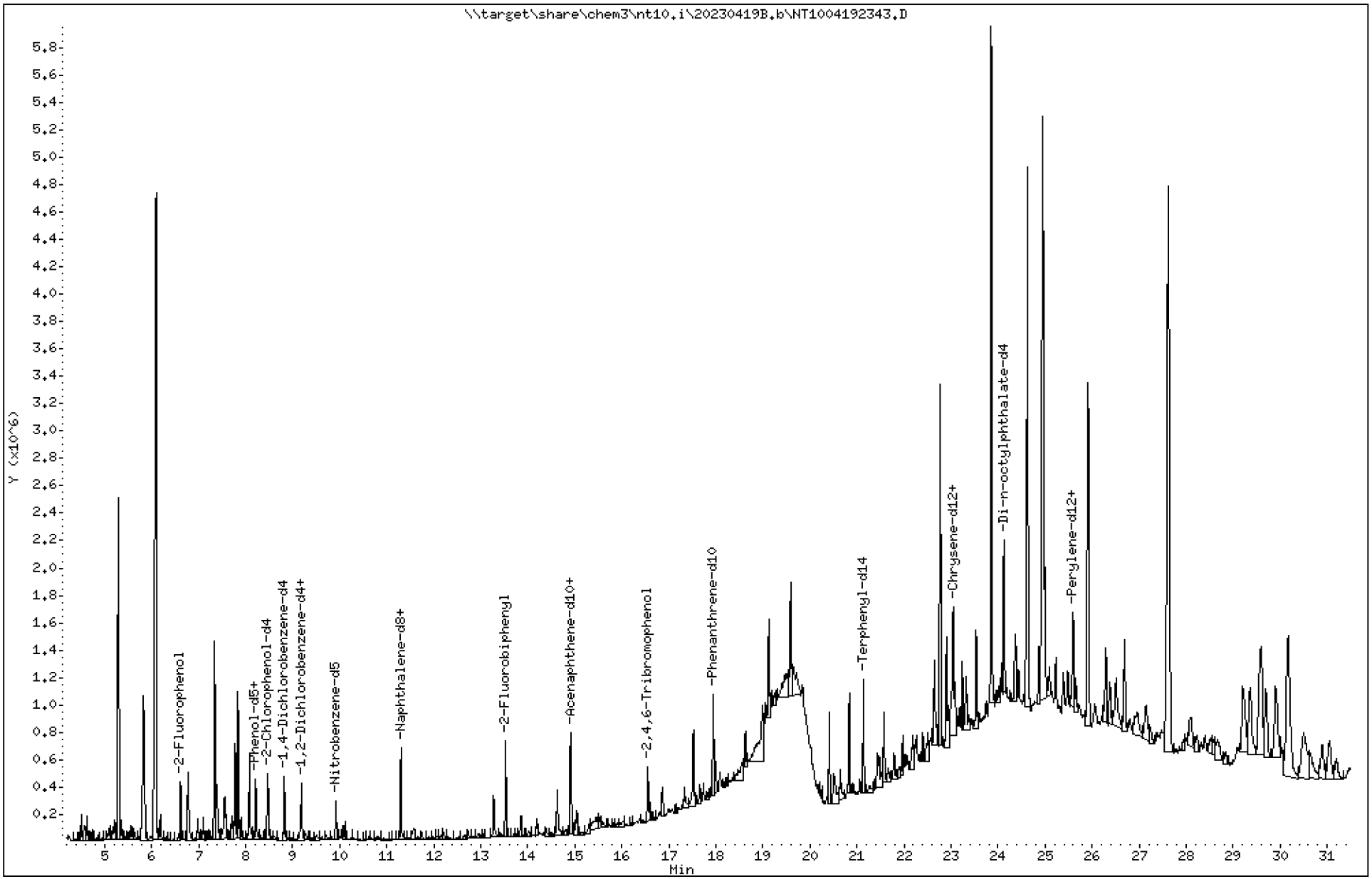
Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-03 A	SDG:	23C0752
Sampled:	03/30/23 11:30	Prepared:	04/03/23 11:31	File ID:	NT1004192343.D
% Solids:	50.66	Preparation:	EPA 3546 (Microwave)	Analyzed:	04/20/23 14:02
Batch:	BLD0008	Sequence:	SLD0293	Initial/Final:	19.76 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00046
Cleanups:	GPC				

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2,4,6-Tribromophenol	749.22	586	78.2	24 - 134	
p-Terphenyl-d14	499.48	298	59.6	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192343.D
Date : 20-APR-2023 14:02
Client ID:
Sample Info: 23C0752-03

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

Column phase: ZB-5msi



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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

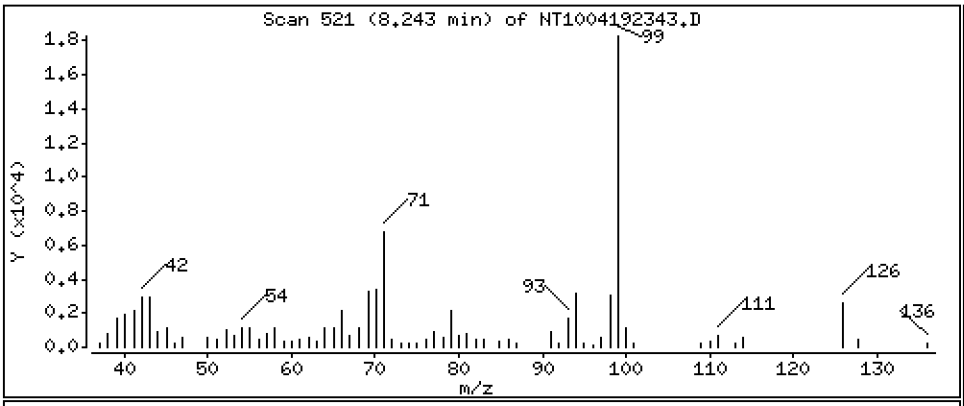
Operator: VTS

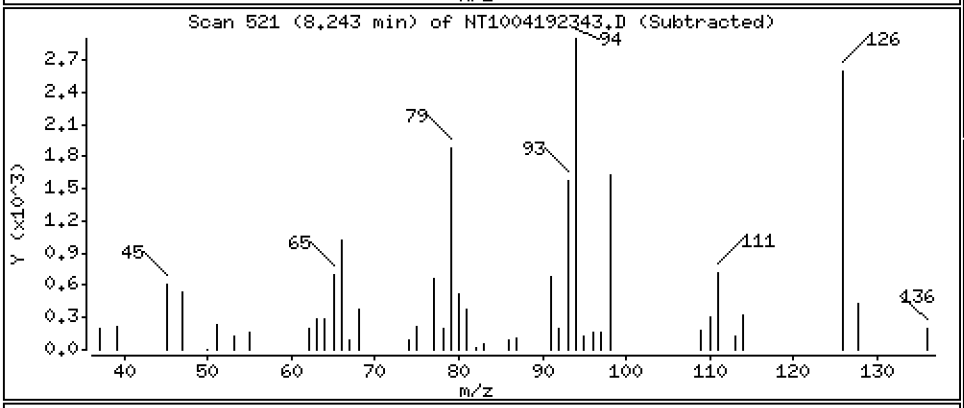
Column phase: ZB-5msi

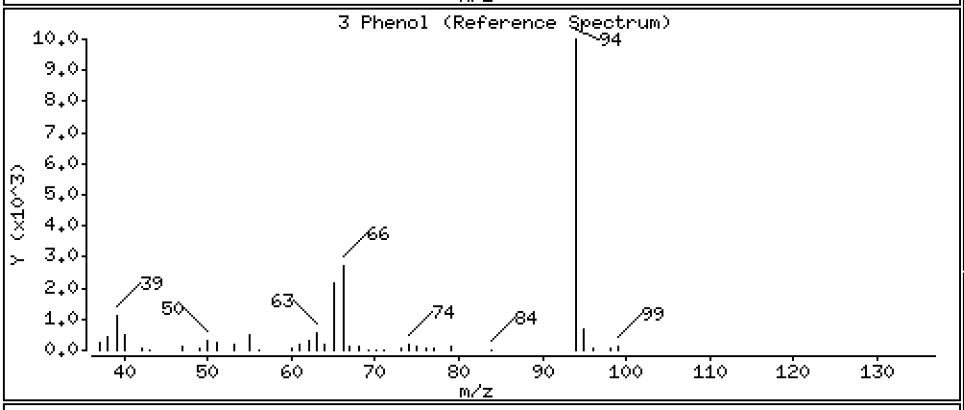
Column diameter: 0.25

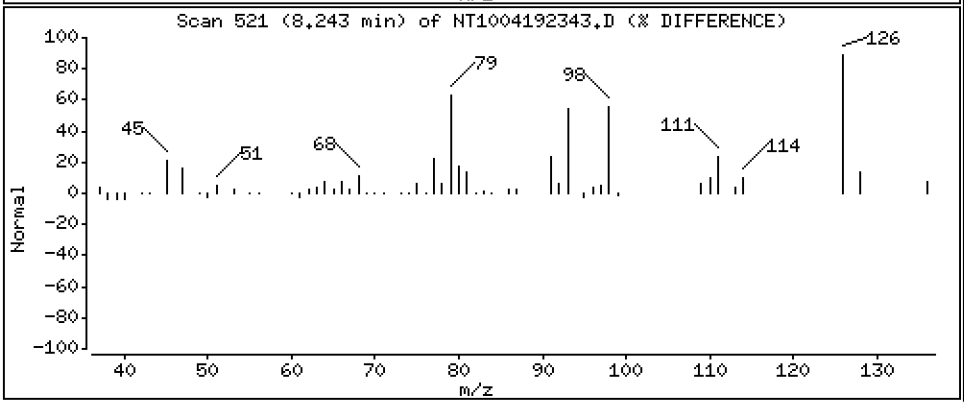
3 Phenol

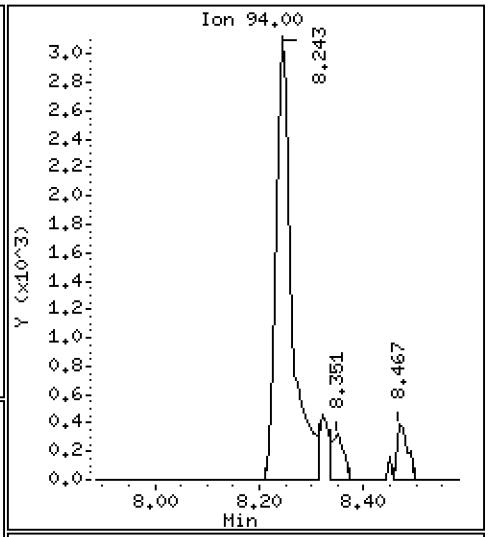
Concentration: 0.1120 ug/mL

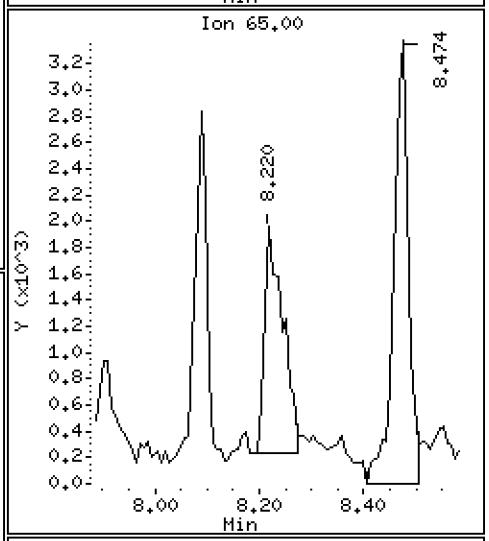


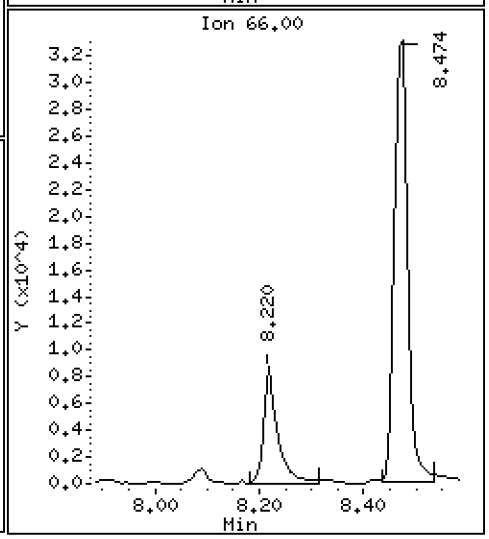












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

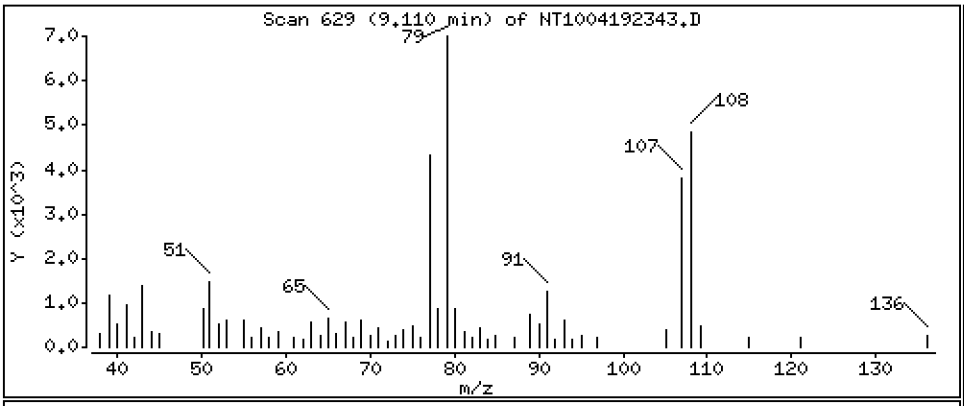
Operator: VTS

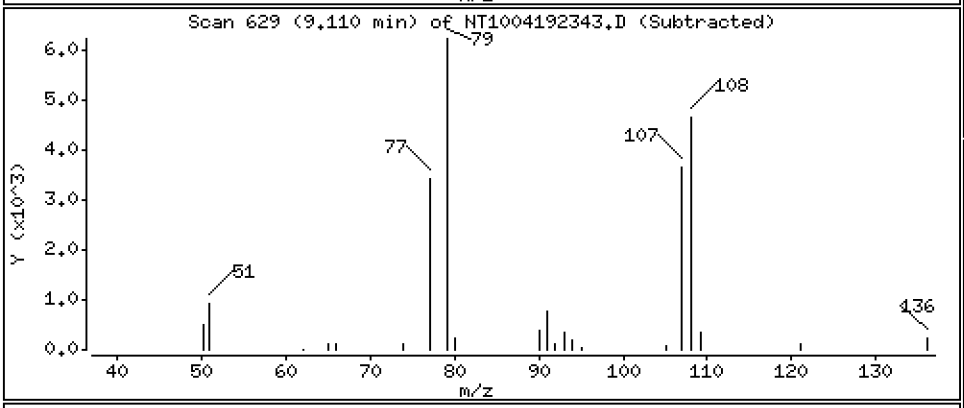
Column phase: ZB-5msi

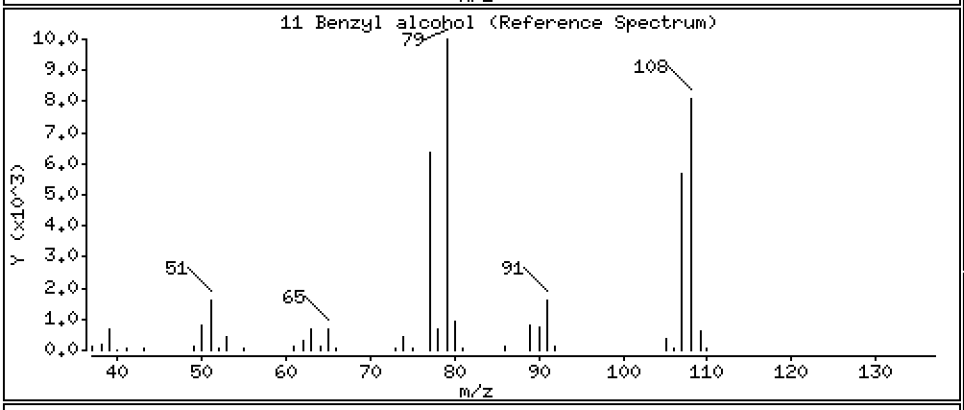
Column diameter: 0.25

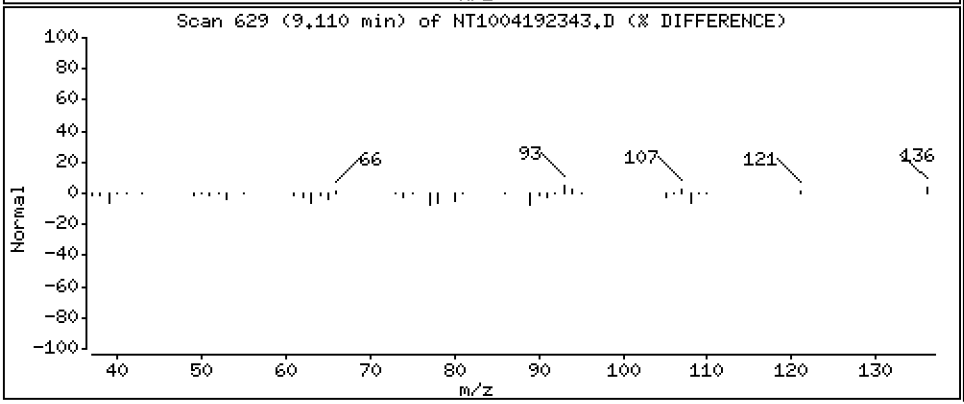
11 Benzyl alcohol

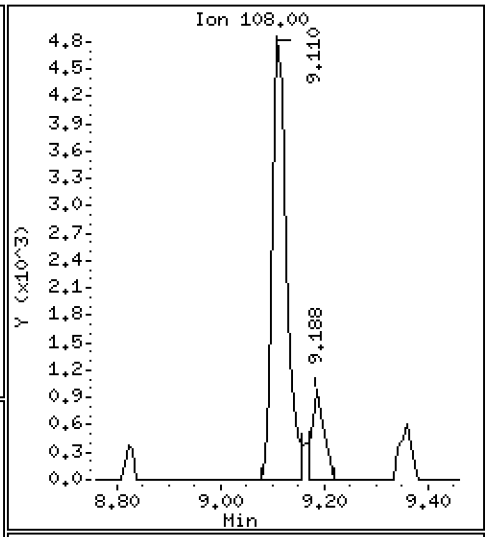
Concentration: 0.3181 ug/mL

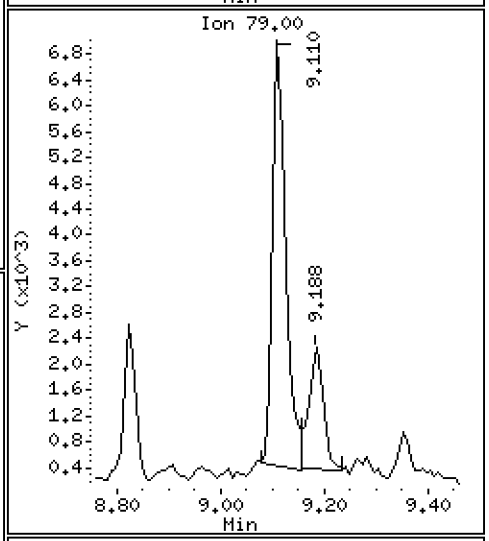


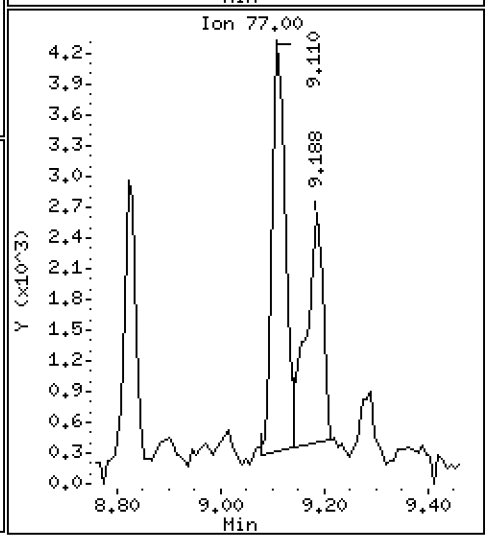












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

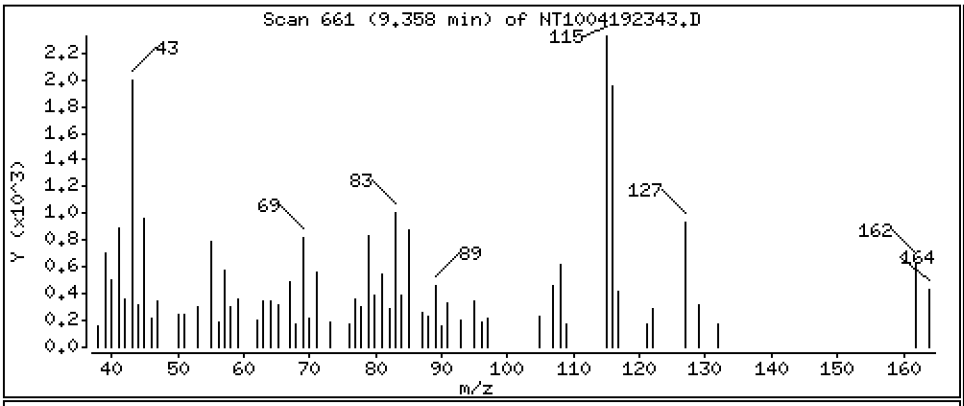
Operator: VTS

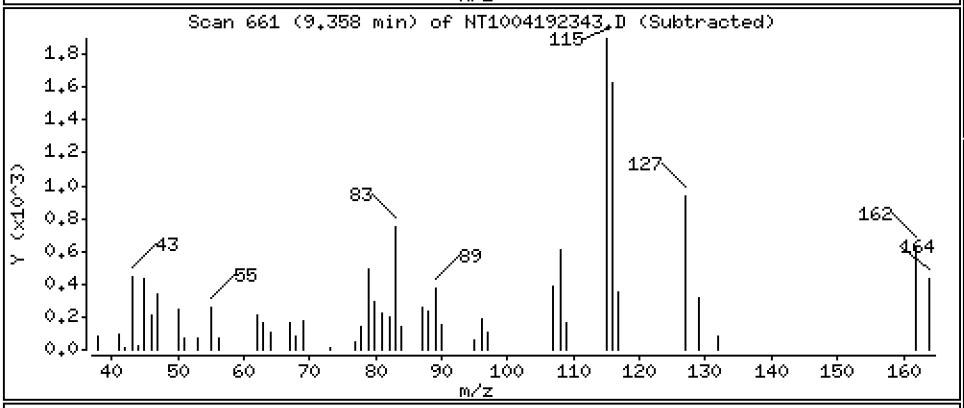
Column phase: ZB-5msi

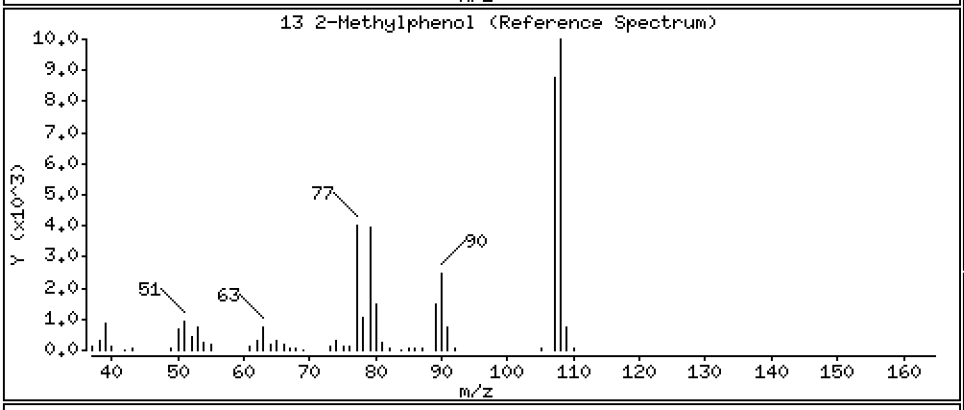
Column diameter: 0.25

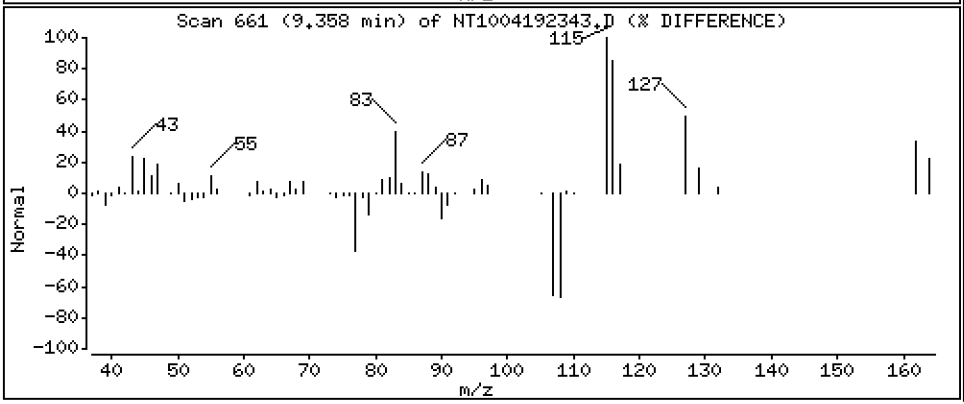
13 2-Methylphenol

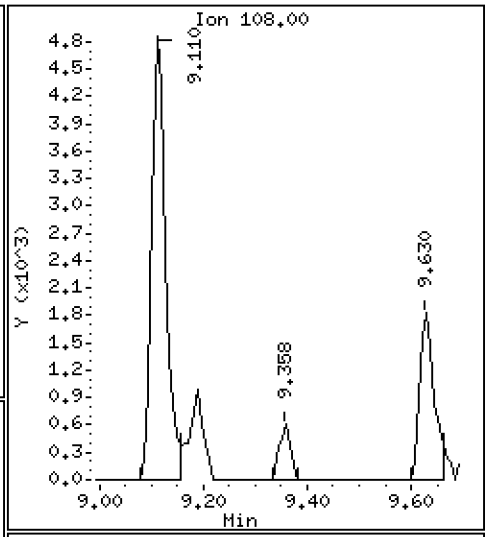
Concentration: 0.02109 ug/mL

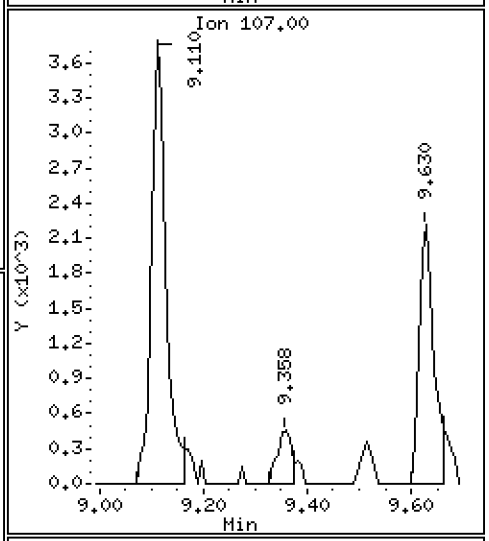


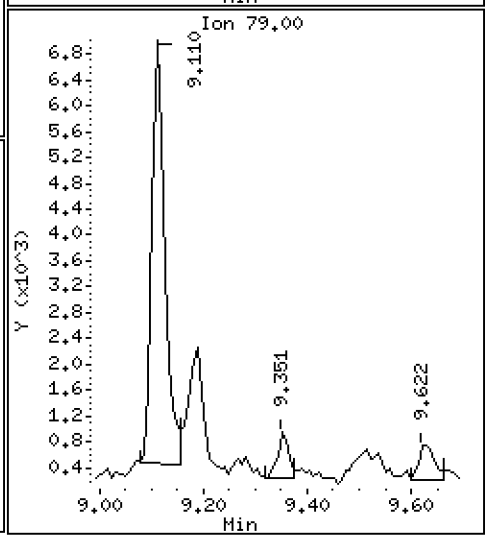












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

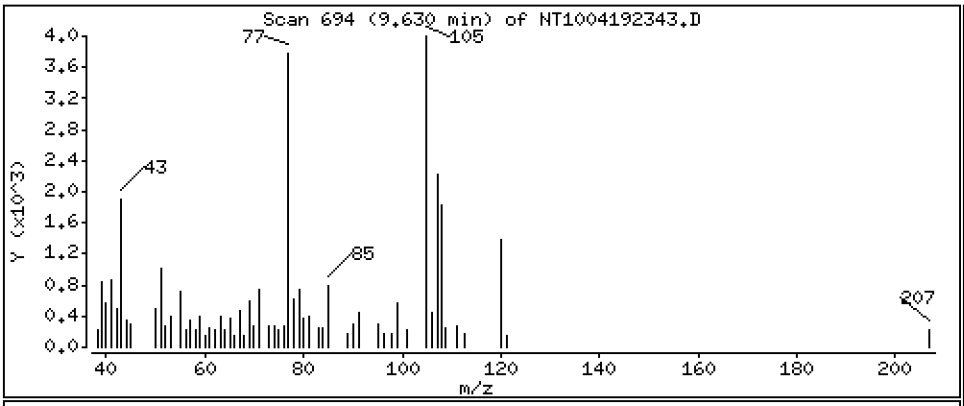
Operator: VTS

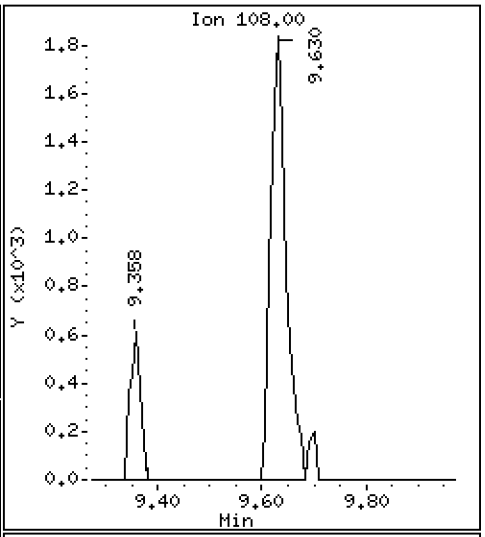
Column phase: ZB-5msi

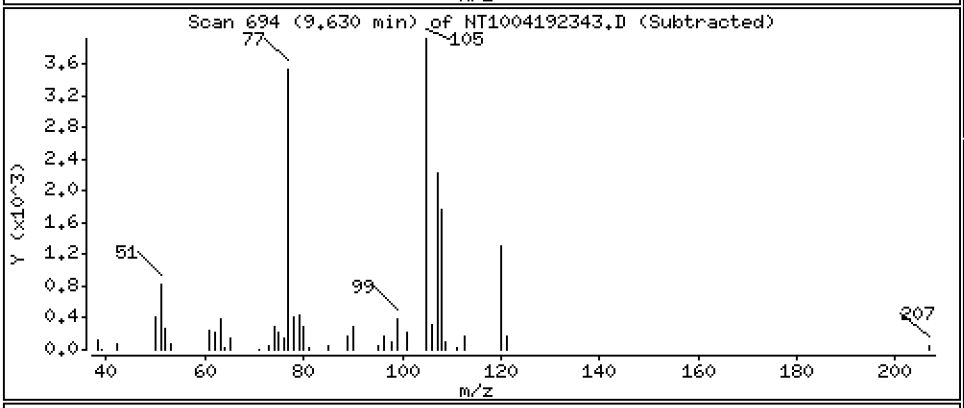
Column diameter: 0.25

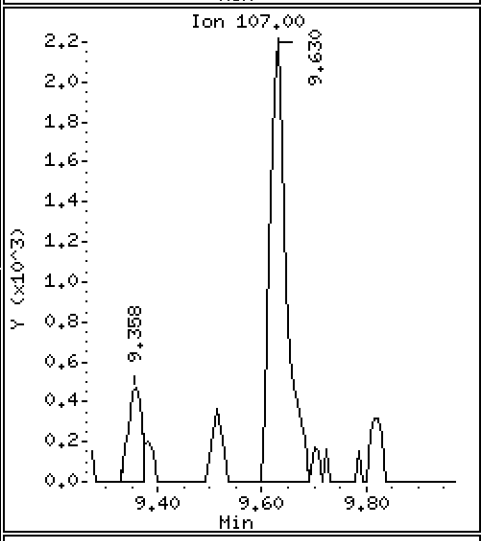
15 4-Methylphenol

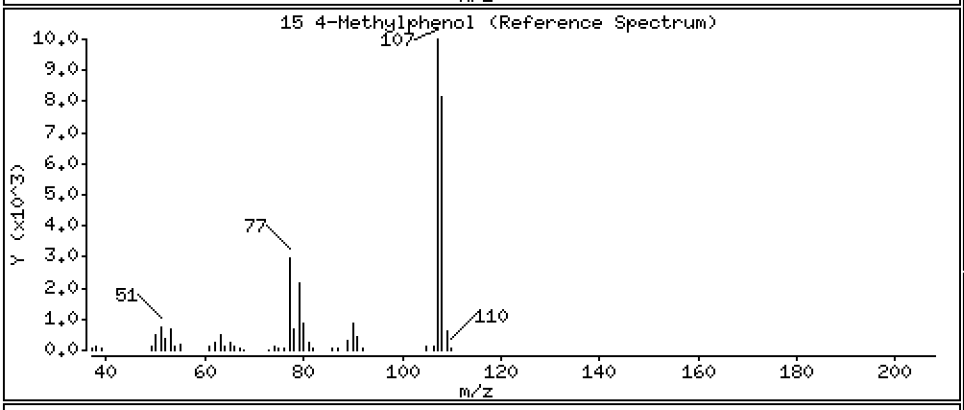
Concentration: 0.08406 ug/mL

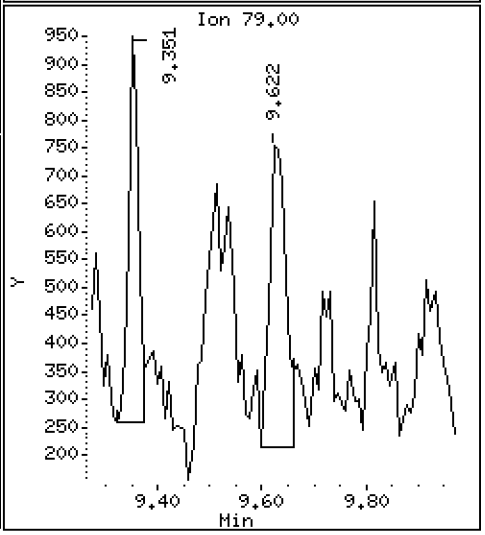


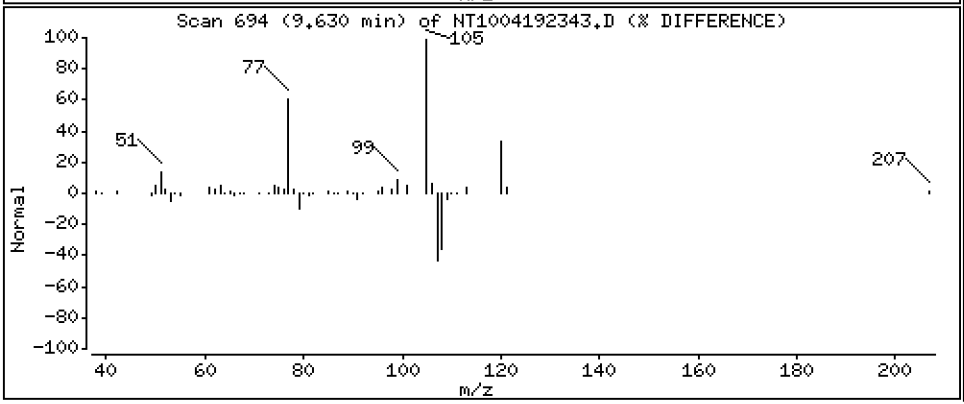












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

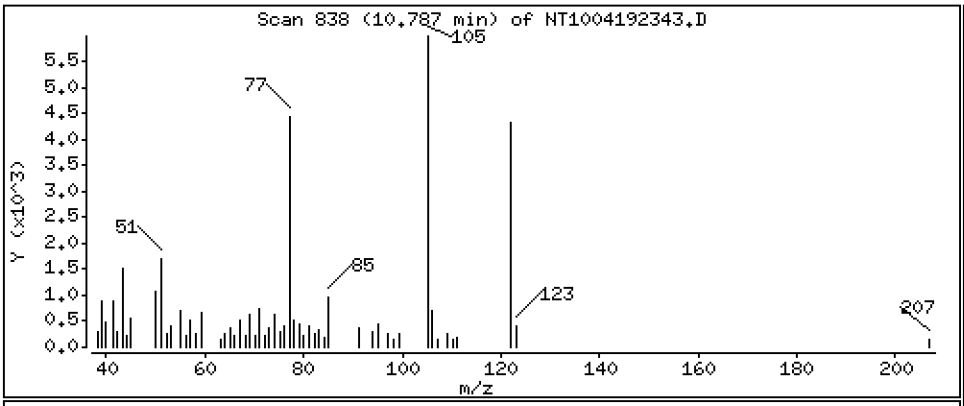
Operator: VTS

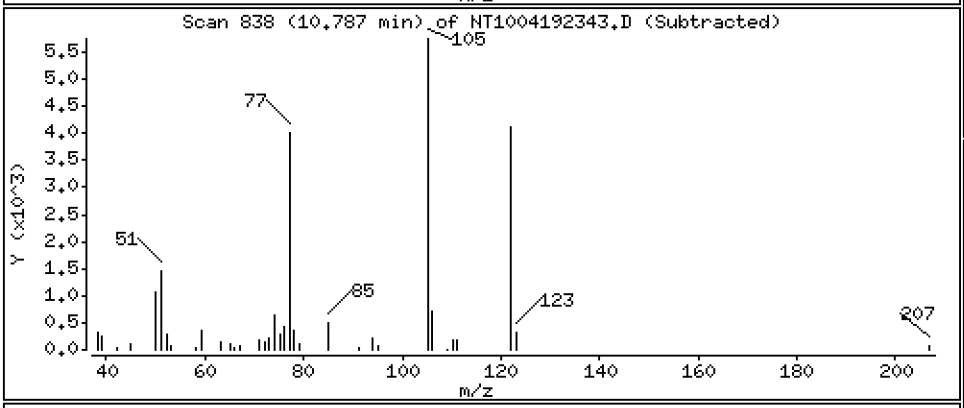
Column phase: ZB-5msi

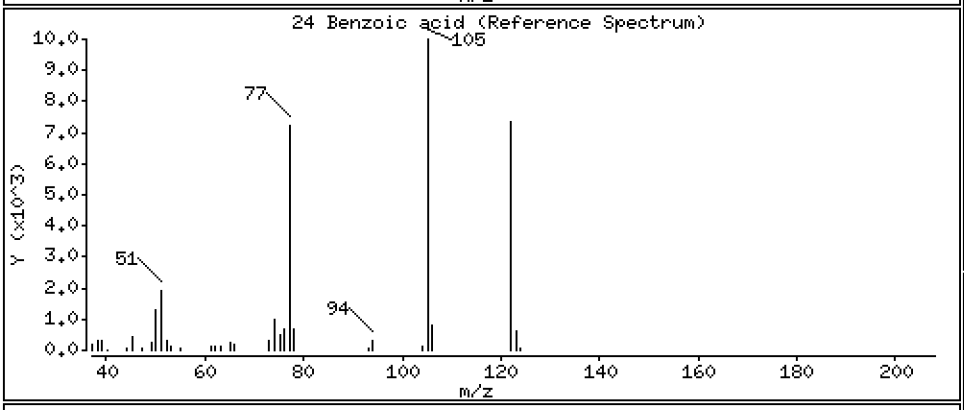
Column diameter: 0.25

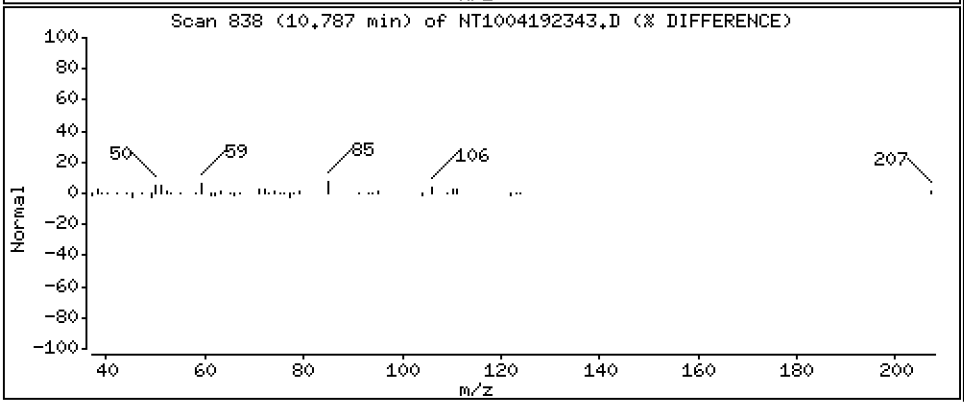
24 Benzoic acid

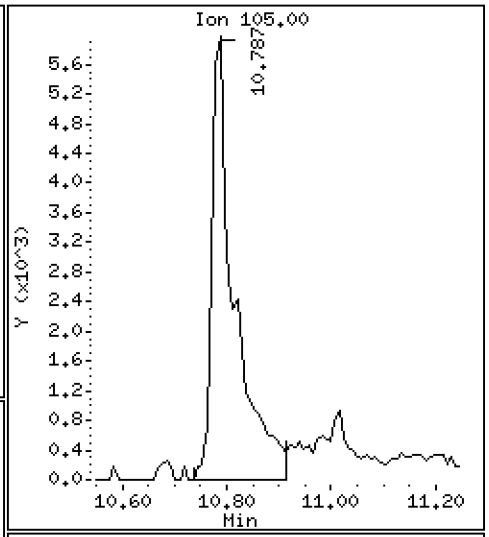
Concentration: 0.6918 ug/mL

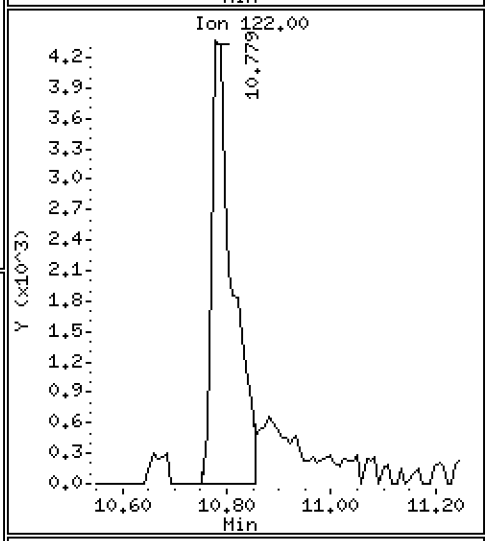


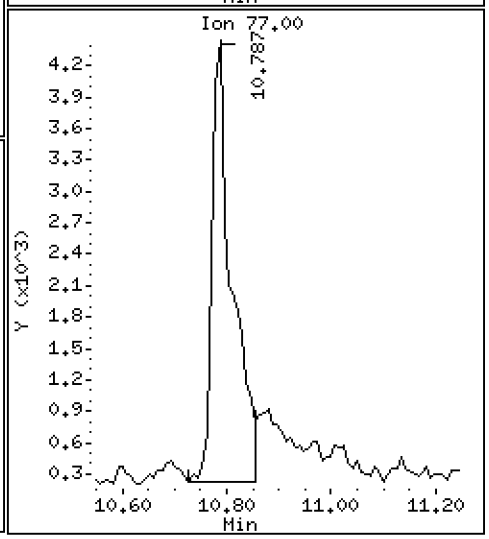












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

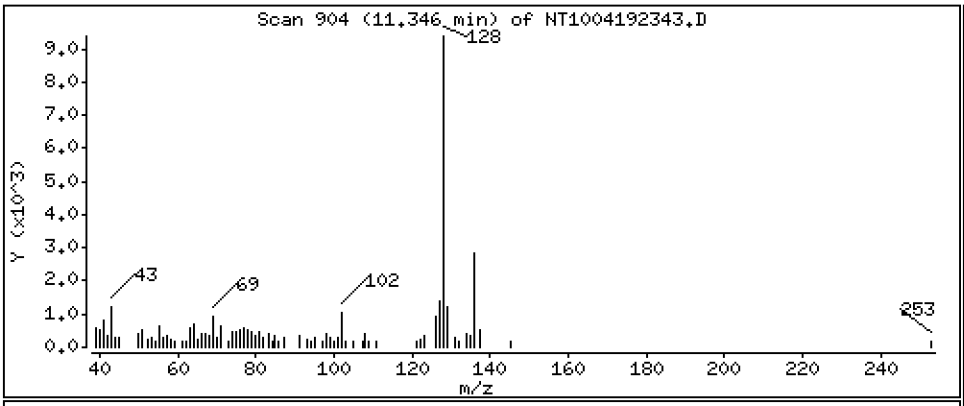
Operator: VTS

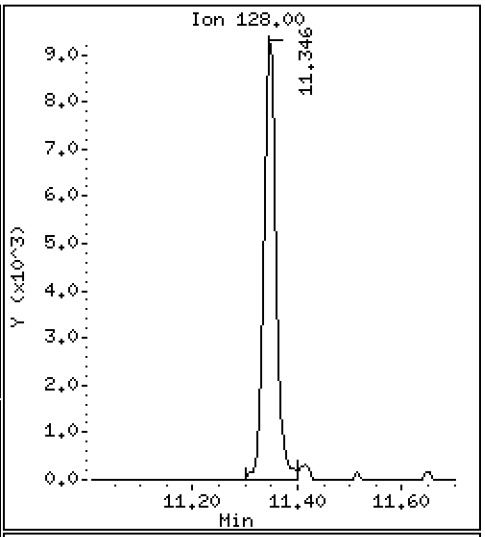
Column phase: ZB-5msi

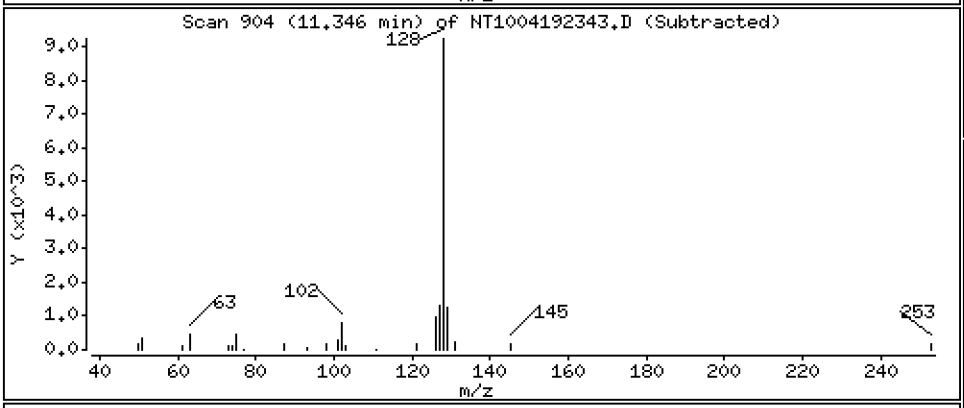
Column diameter: 0.25

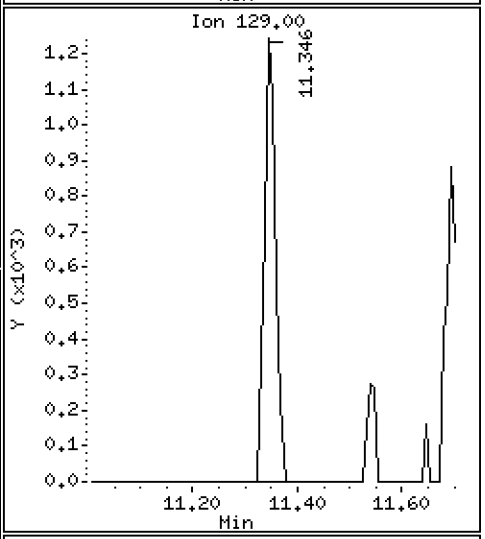
28 Naphthalene

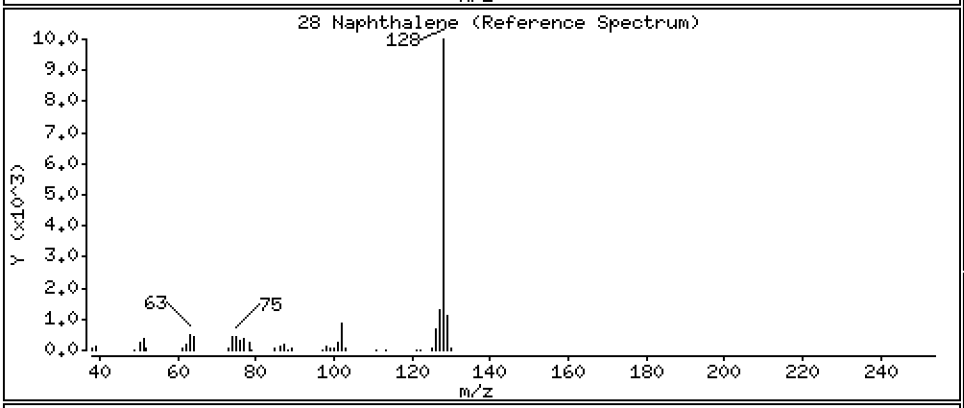
Concentration: 0.1152 ug/mL

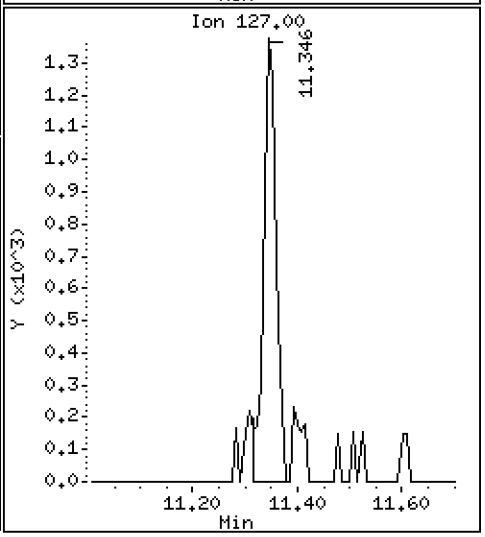


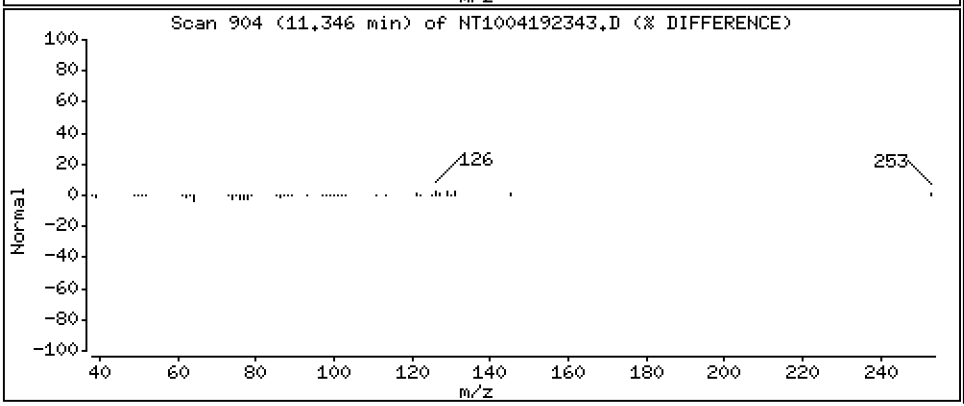












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

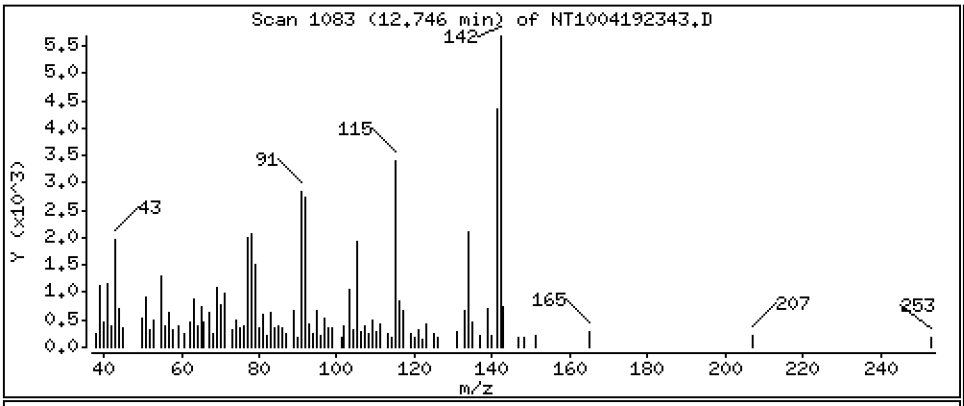
Operator: VTS

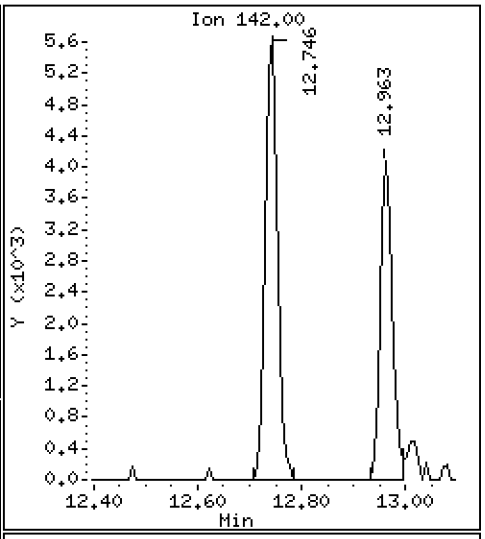
Column phase: ZB-5msi

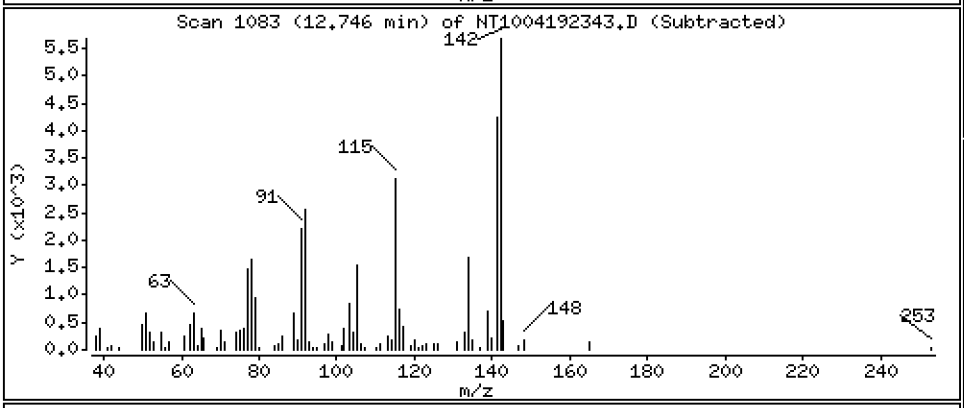
Column diameter: 0.25

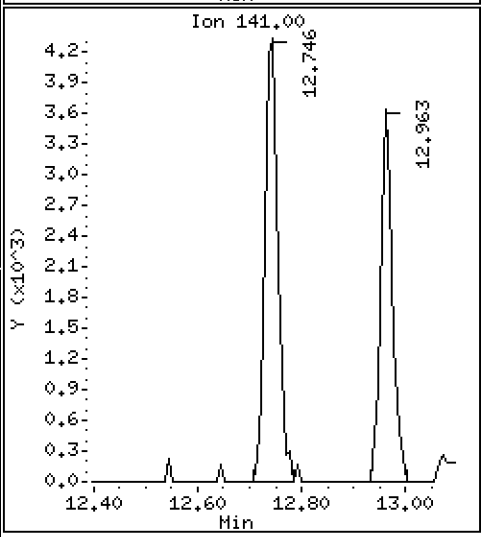
32 2-Methylnaphthalene

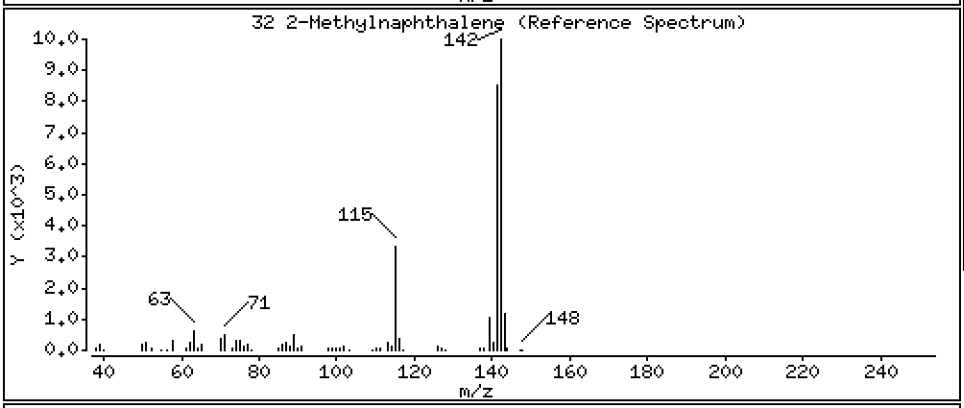
Concentration: 0.08908 ug/mL

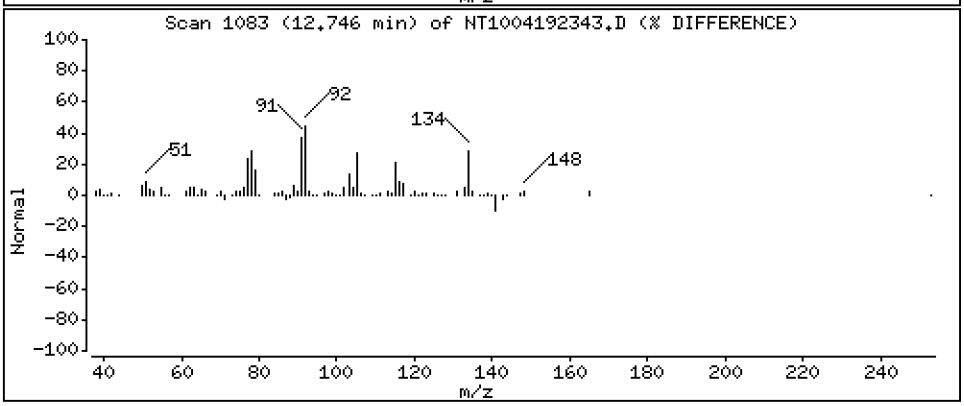












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

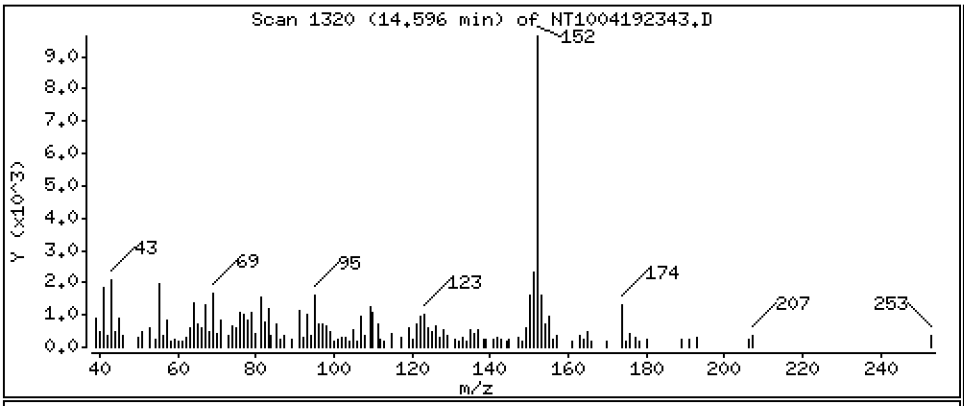
Operator: VTS

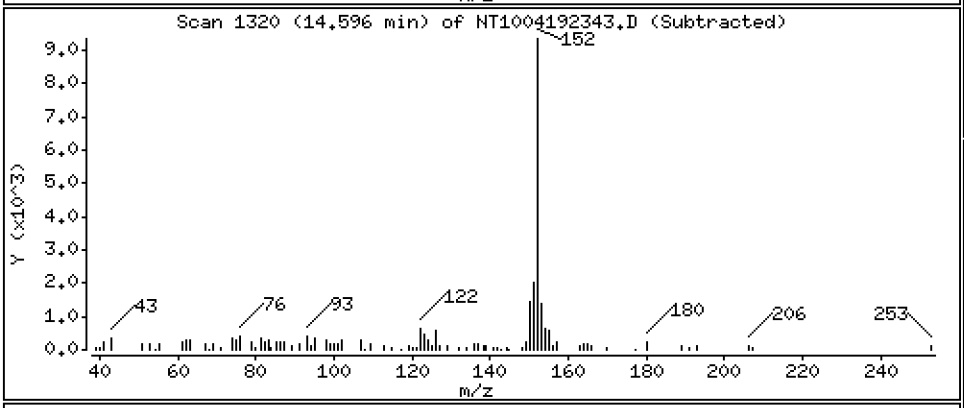
Column phase: ZB-5msi

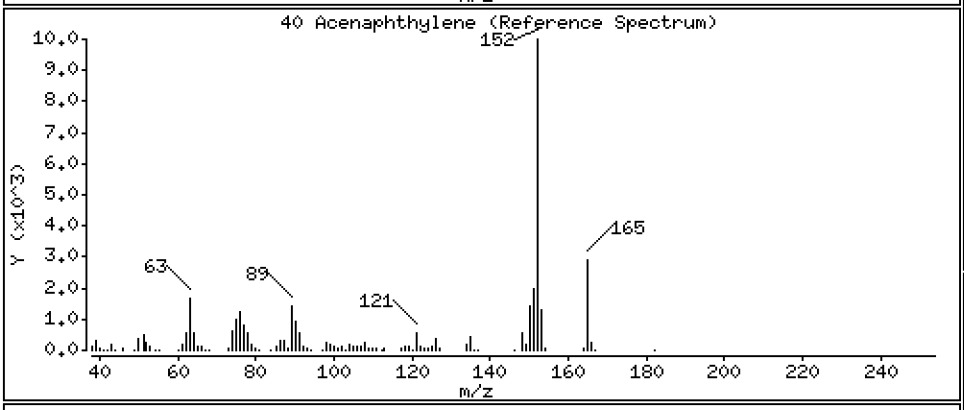
Column diameter: 0.25

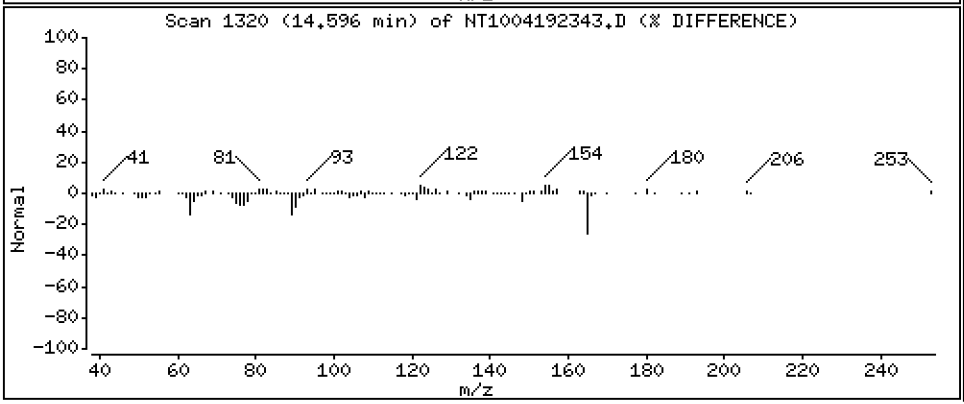
40 Acenaphthylene

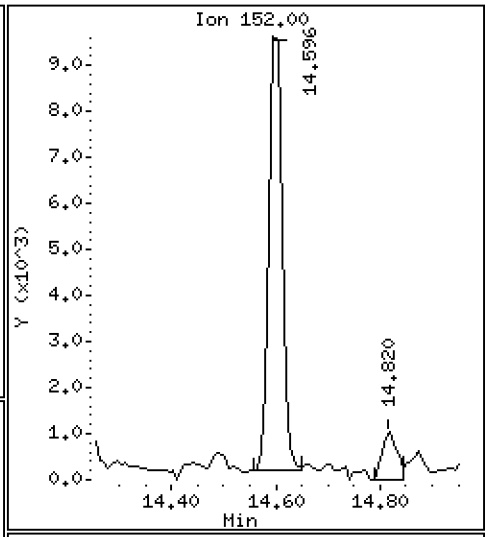
Concentration: 0.1042 ug/mL

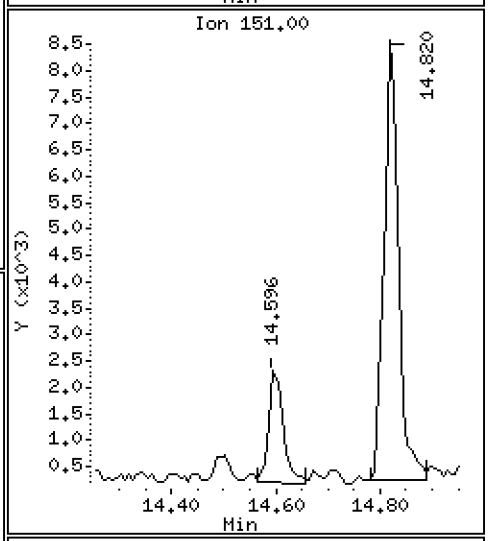


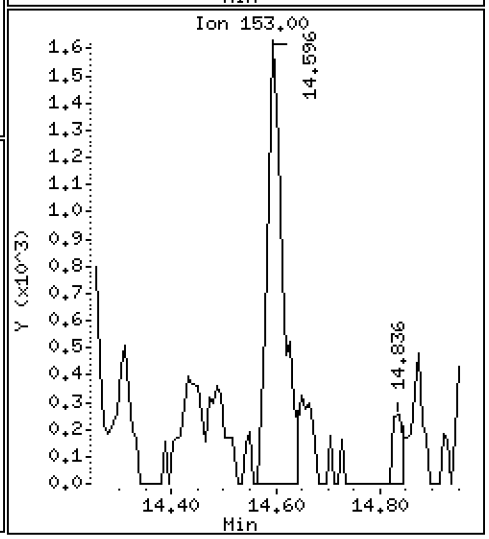












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

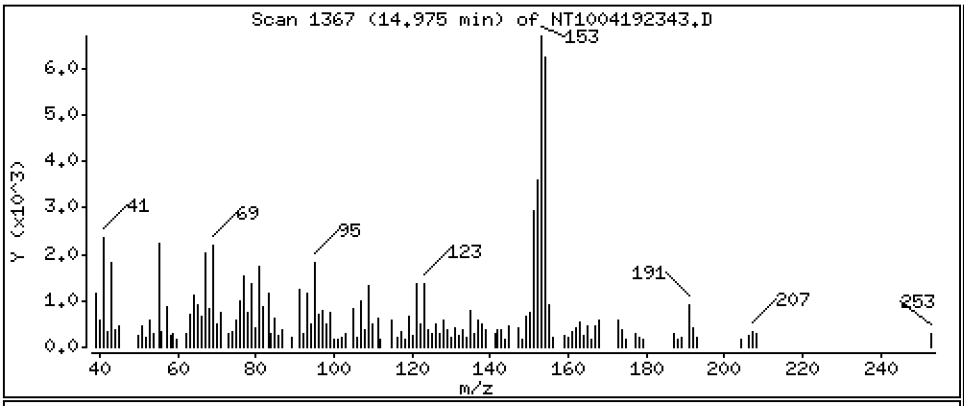
Operator: VTS

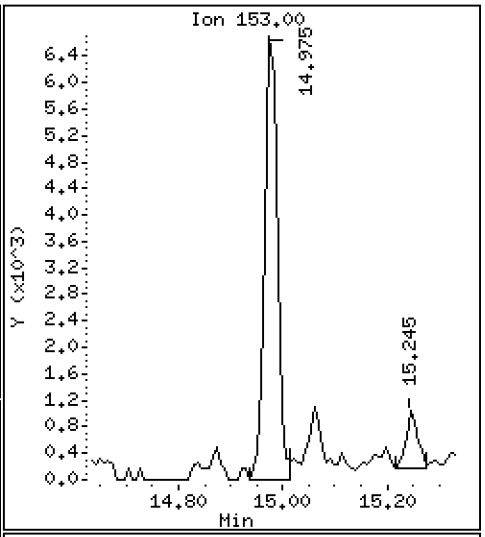
Column phase: ZB-5msi

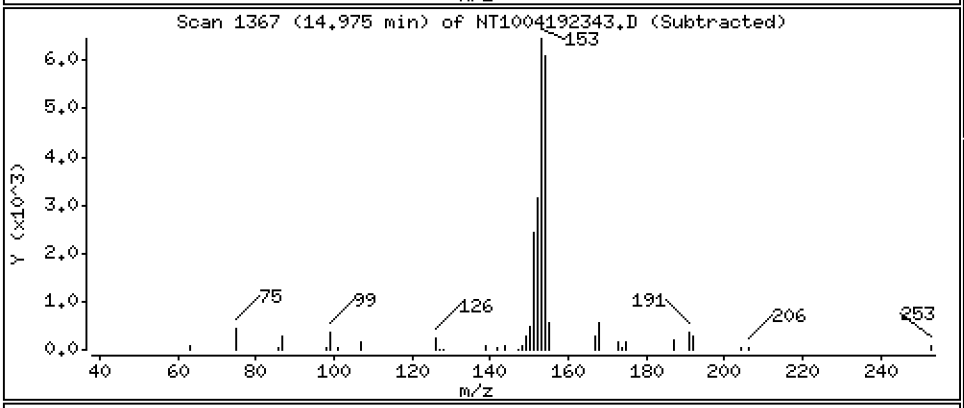
Column diameter: 0.25

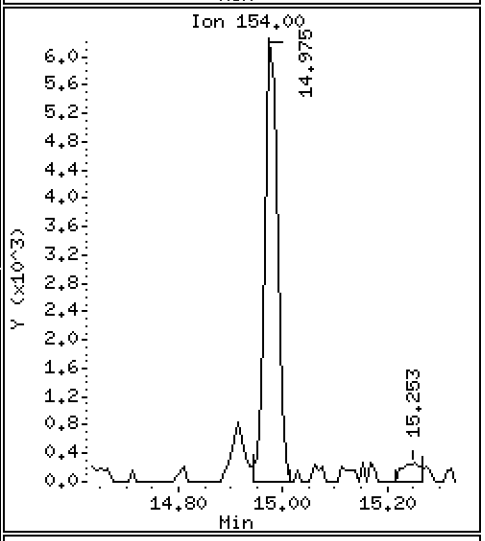
44 Acenaphthene

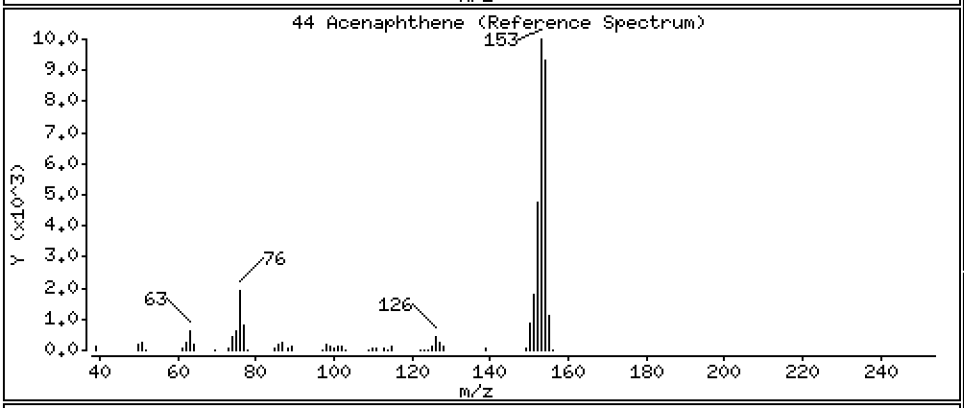
Concentration: 0.1160 ug/mL

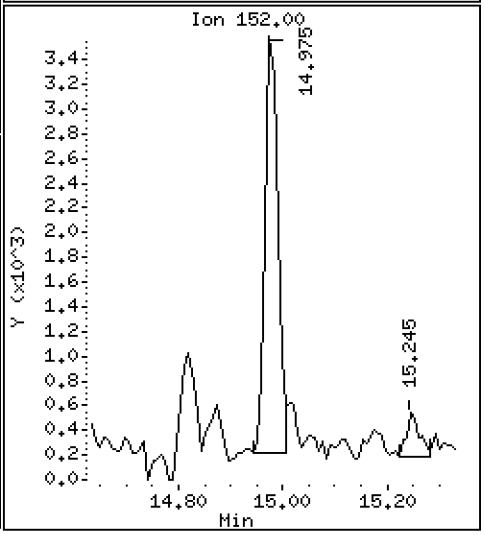


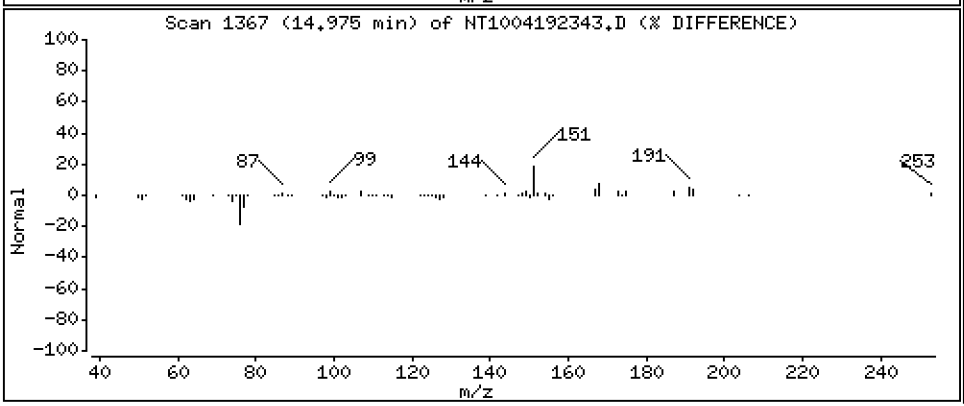












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192343.D

Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

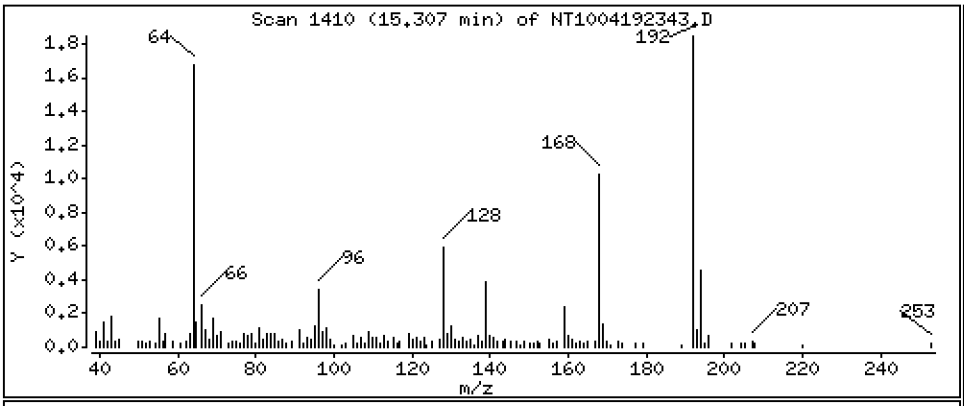
Operator: VTS

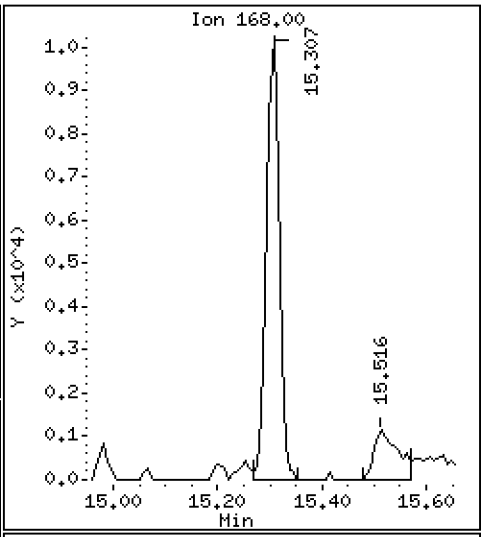
Column phase: ZB-5msi

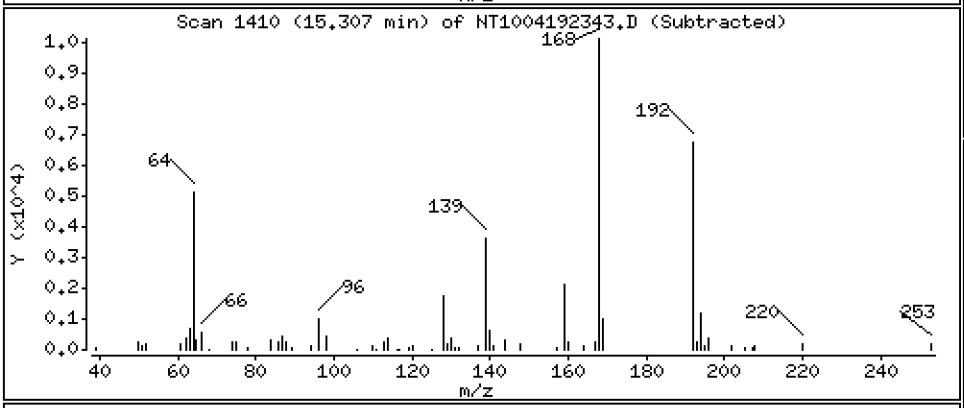
Column diameter: 0.25

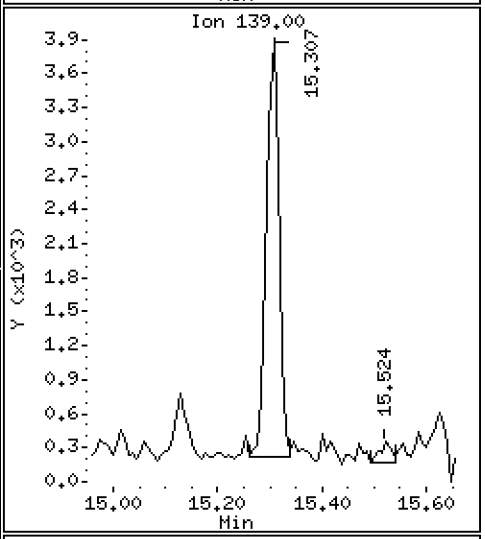
46 Dibenzofuran

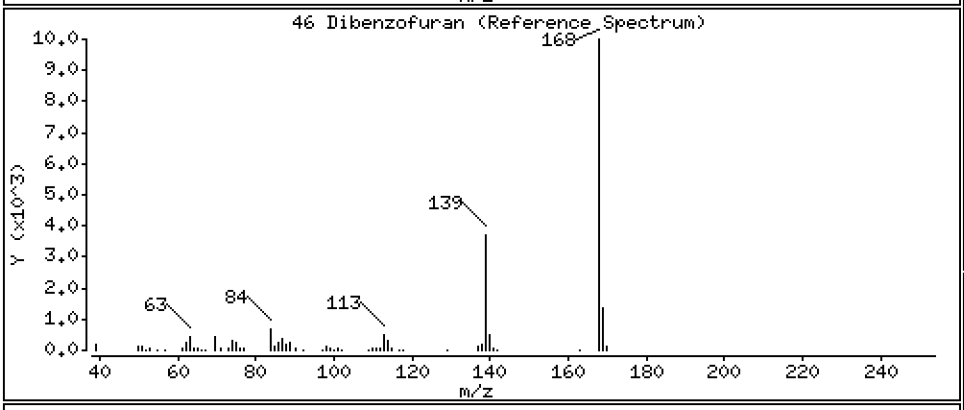
Concentration: 0.1207 ug/mL

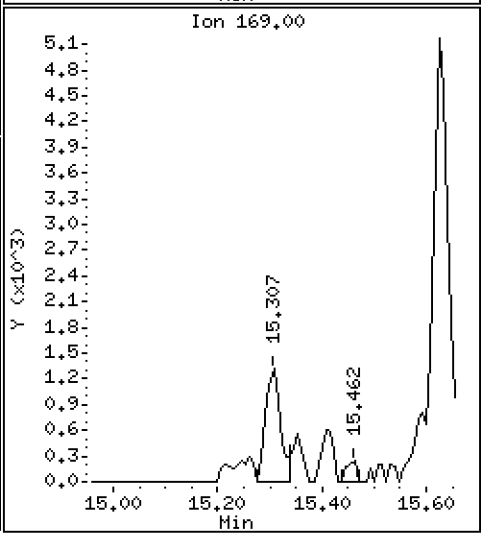


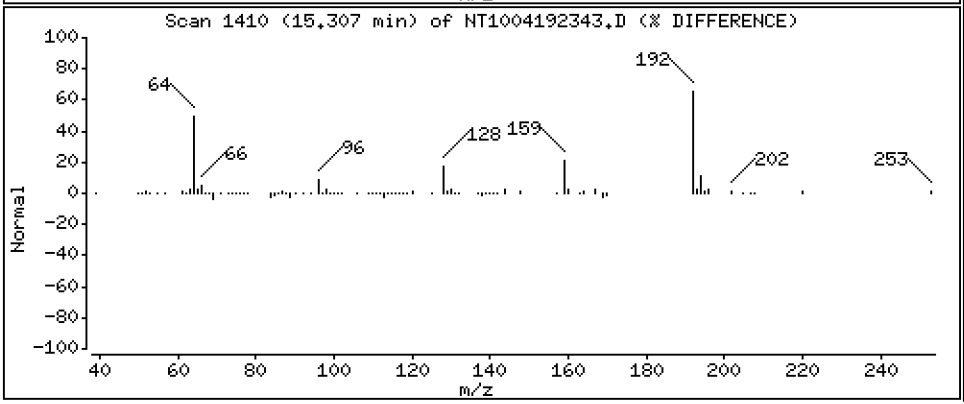












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

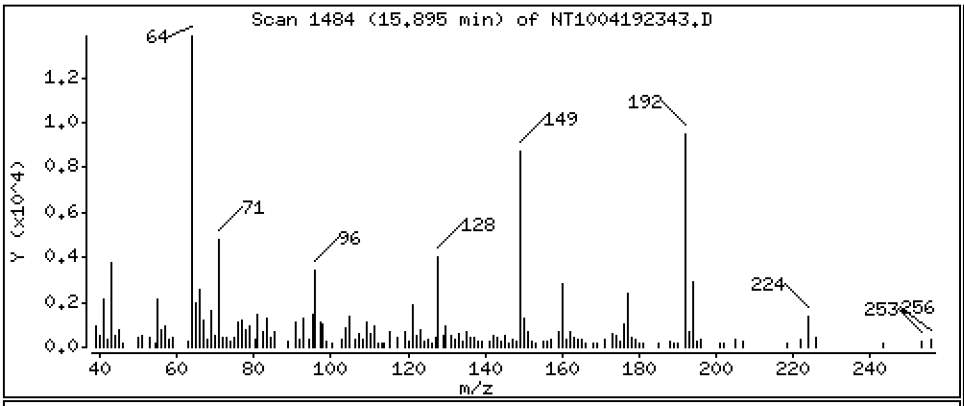
Operator: VTS

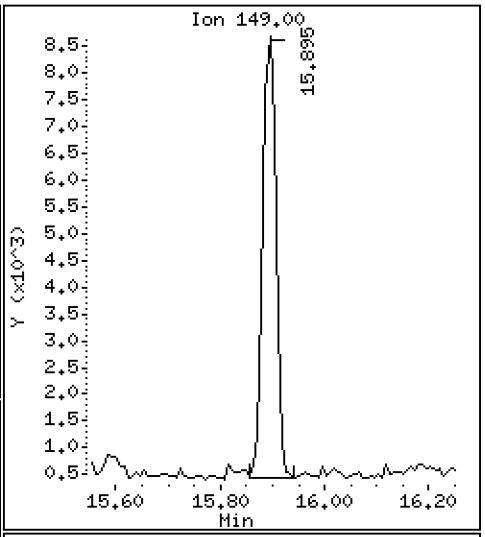
Column phase: ZB-5msi

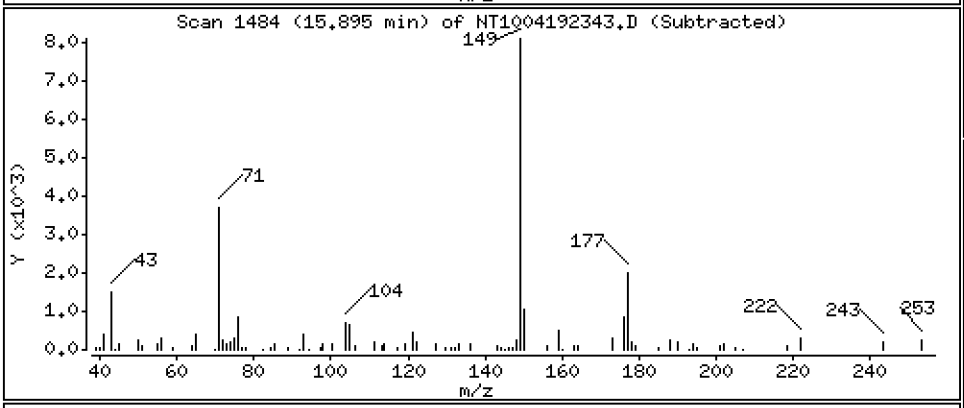
Column diameter: 0.25

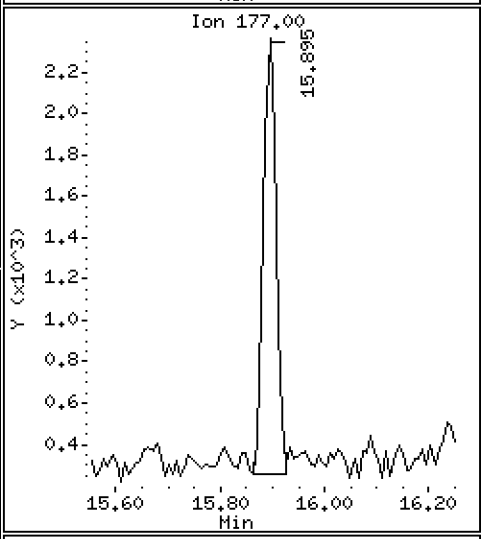
50 Diethylphthalate

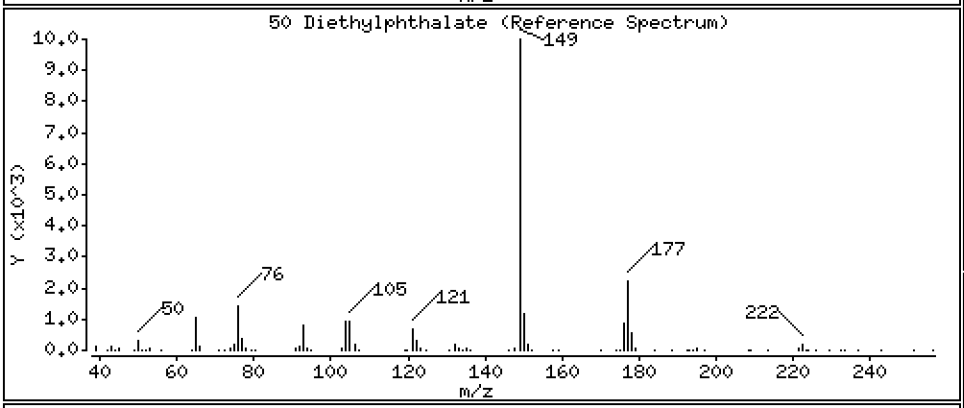
Concentration: 0.1445 ug/mL

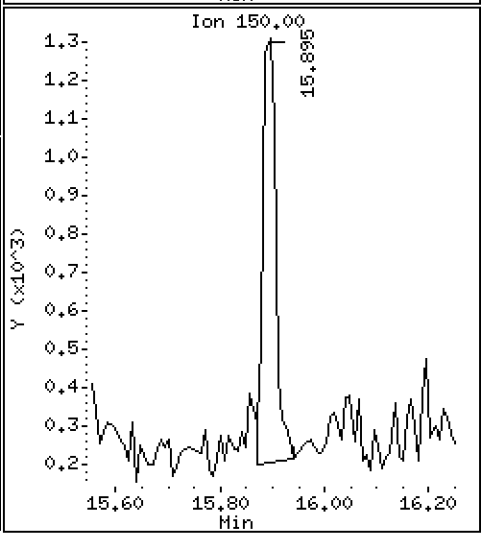


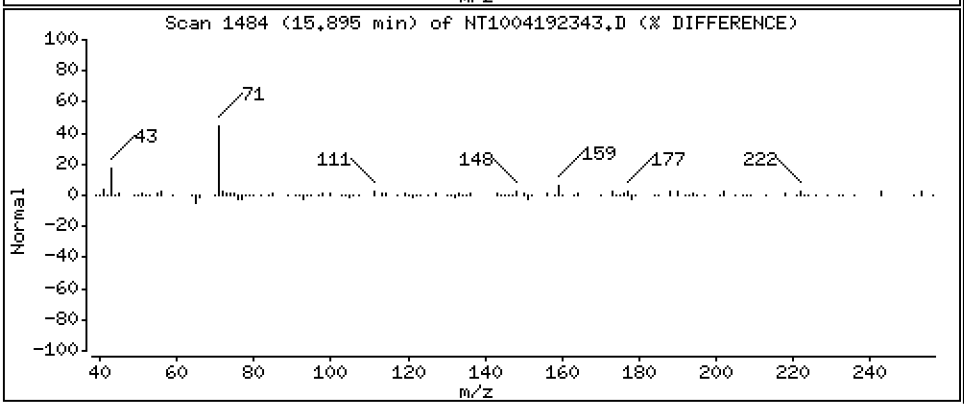












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

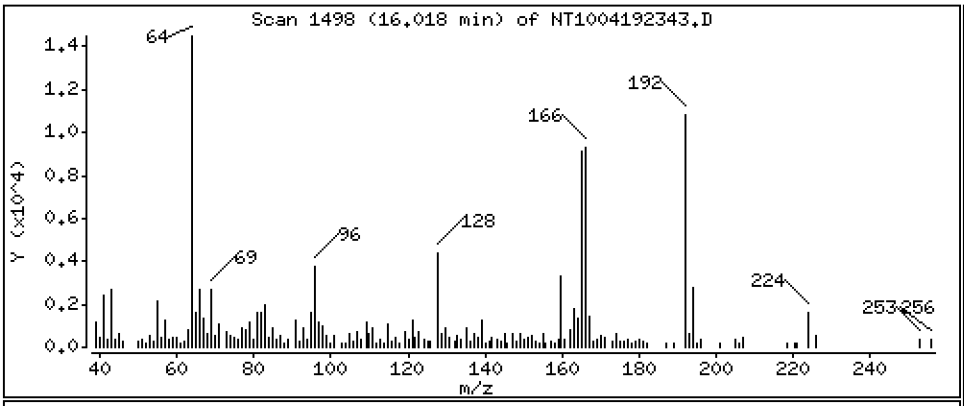
Operator: VTS

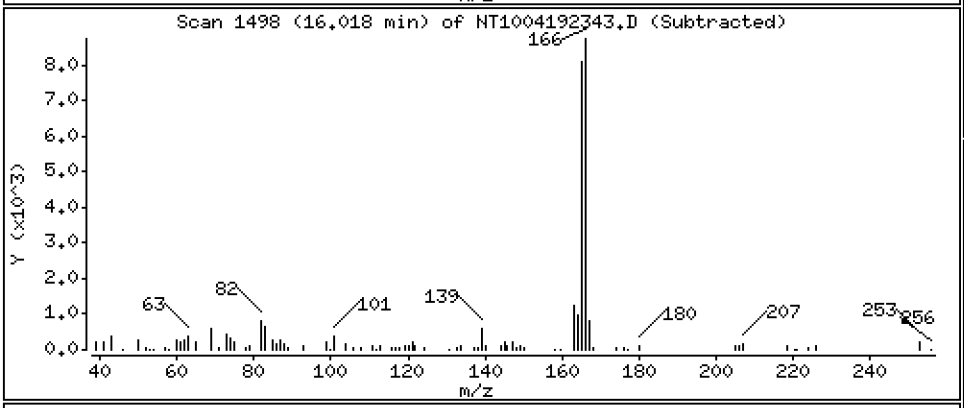
Column phase: ZB-5msi

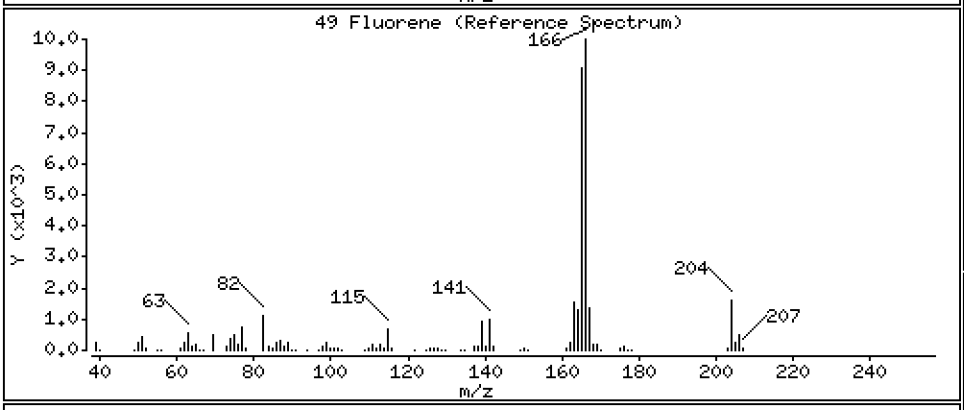
Column diameter: 0.25

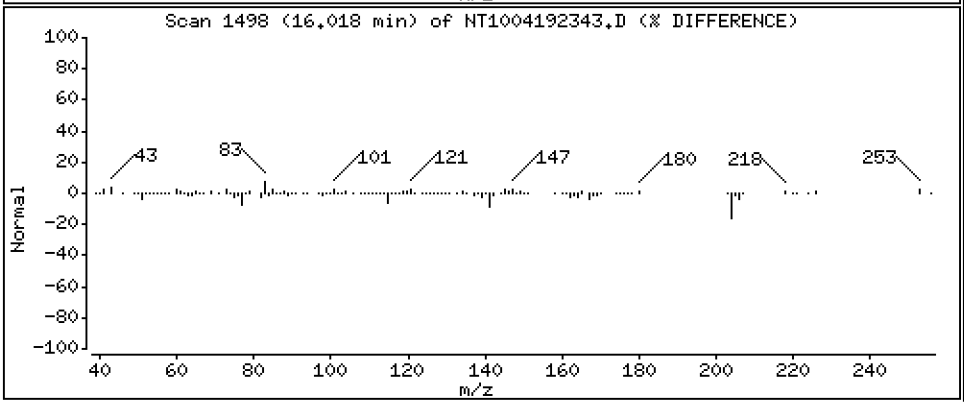
49 Fluorene

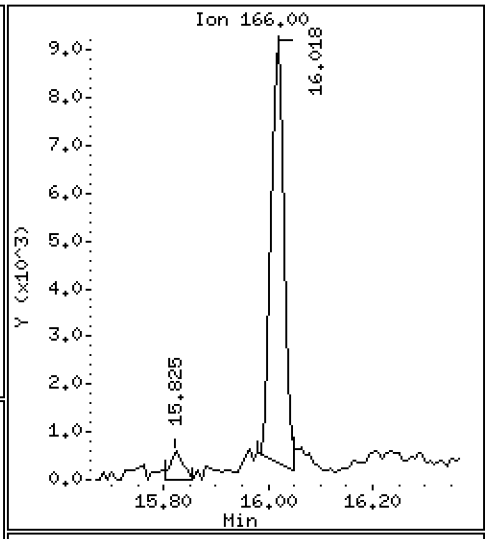
Concentration: 0.1376 ug/mL

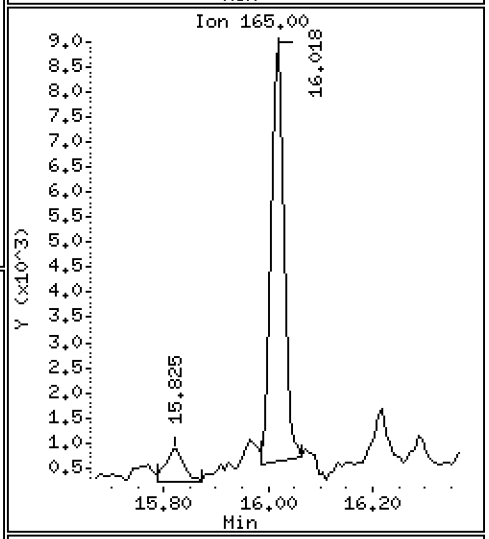


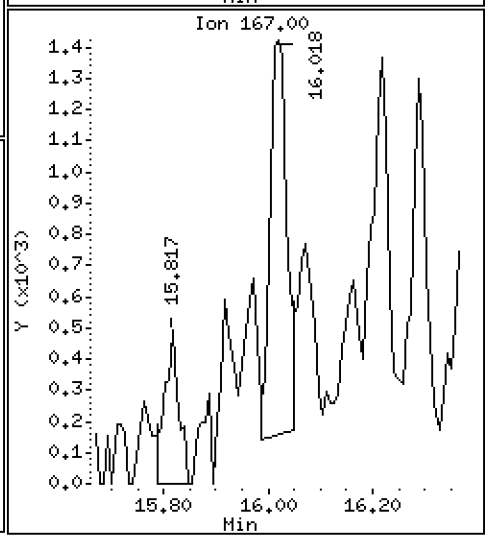












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

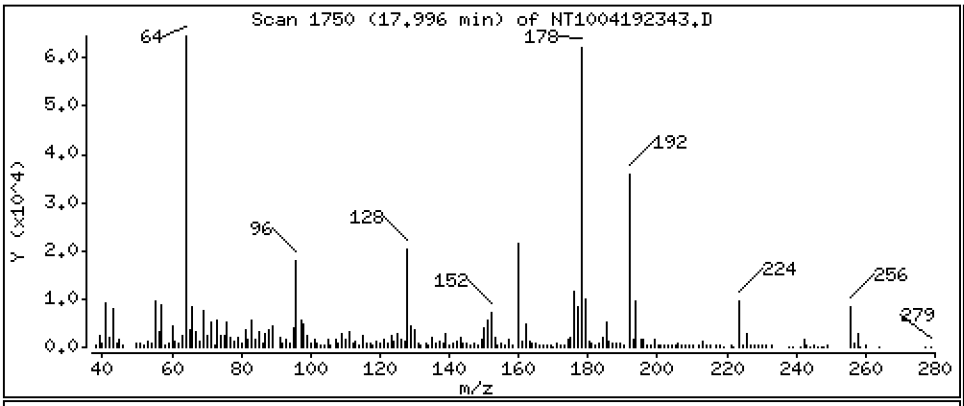
Operator: VTS

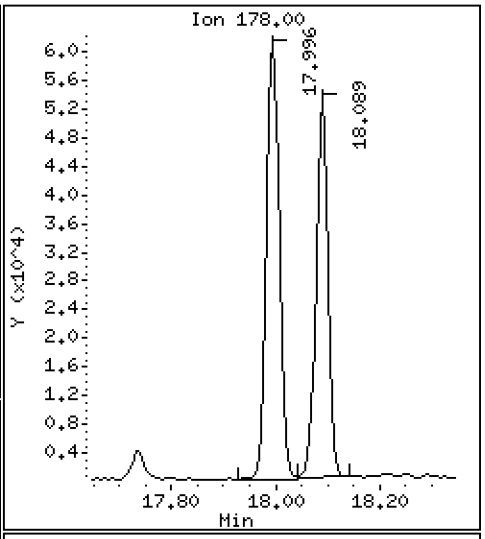
Column phase: ZB-5msi

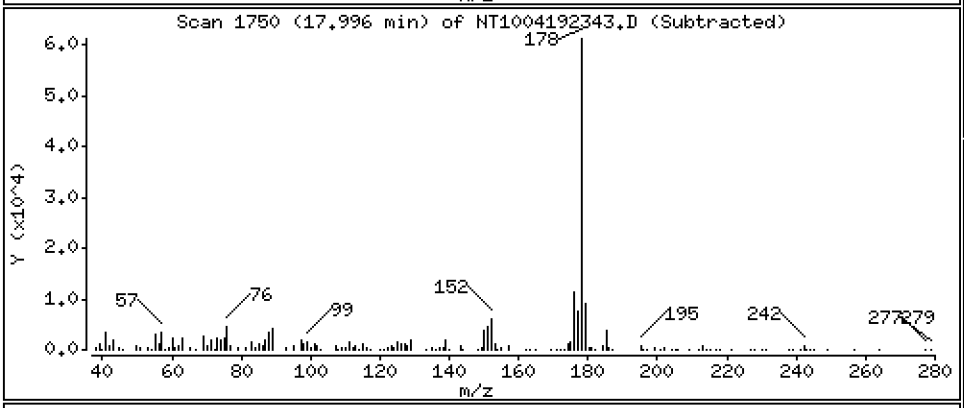
Column diameter: 0.25

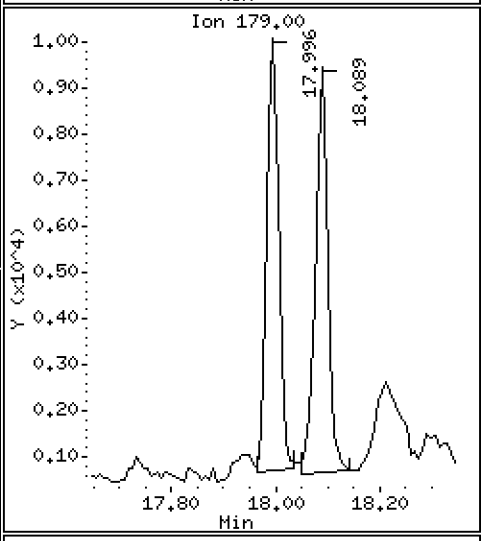
60 Phenanthrene

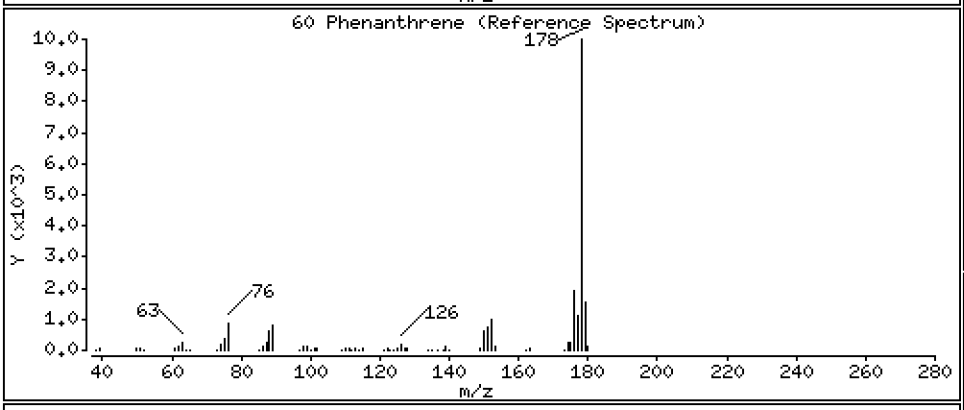
Concentration: 0.7051 ug/mL

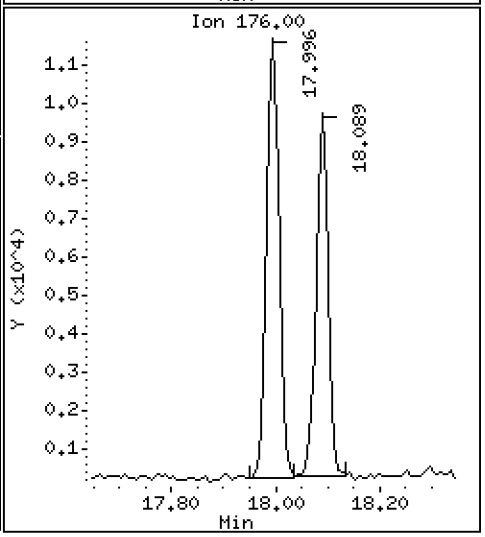


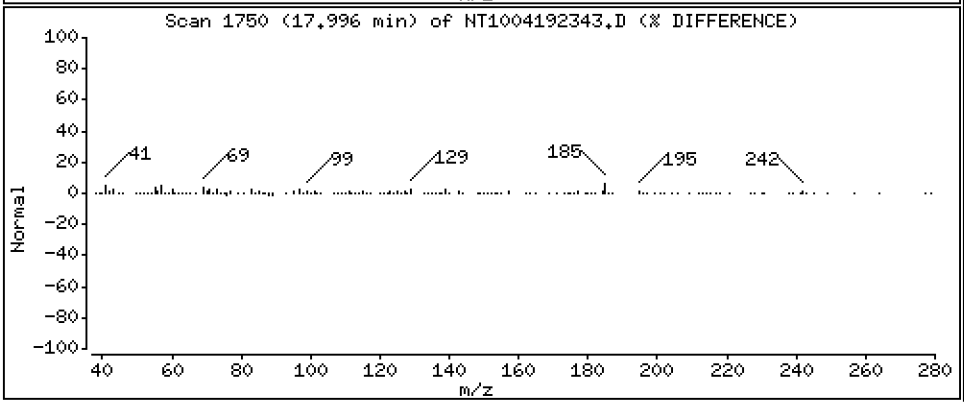












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

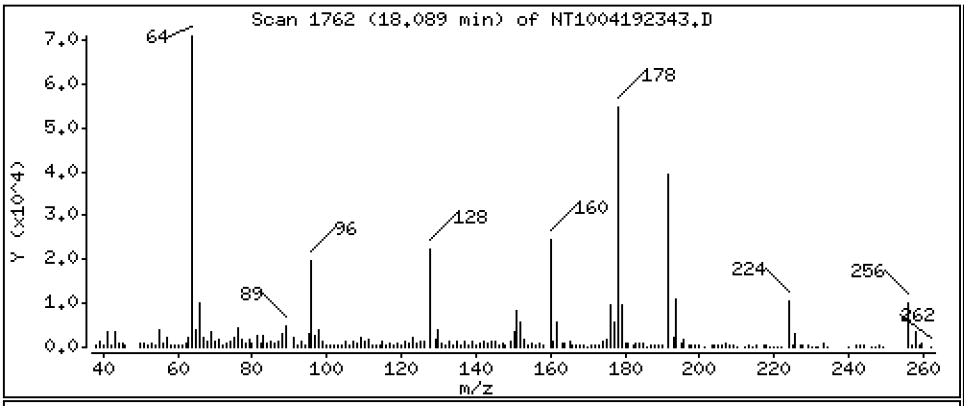
Operator: VTS

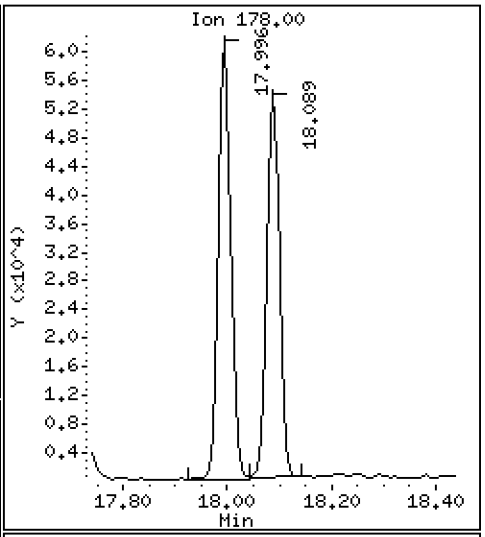
Column phase: ZB-5msi

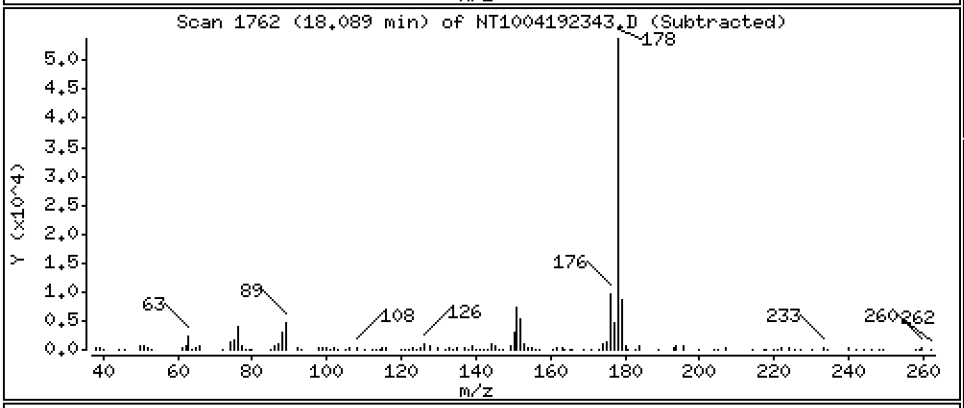
Column diameter: 0.25

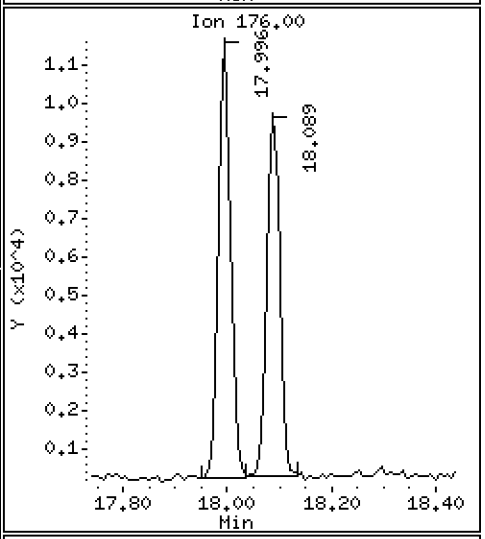
61 Anthracene

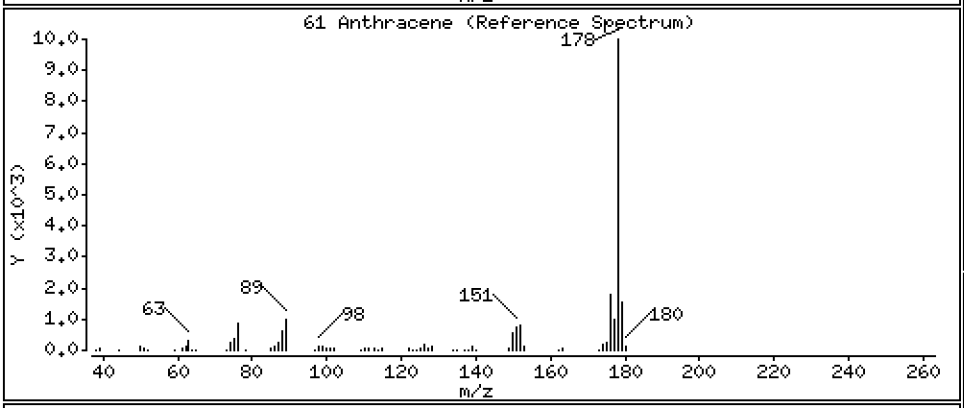
Concentration: 0.6215 ug/mL

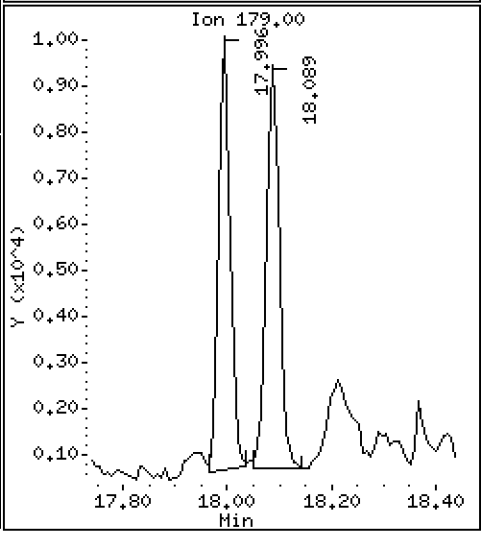


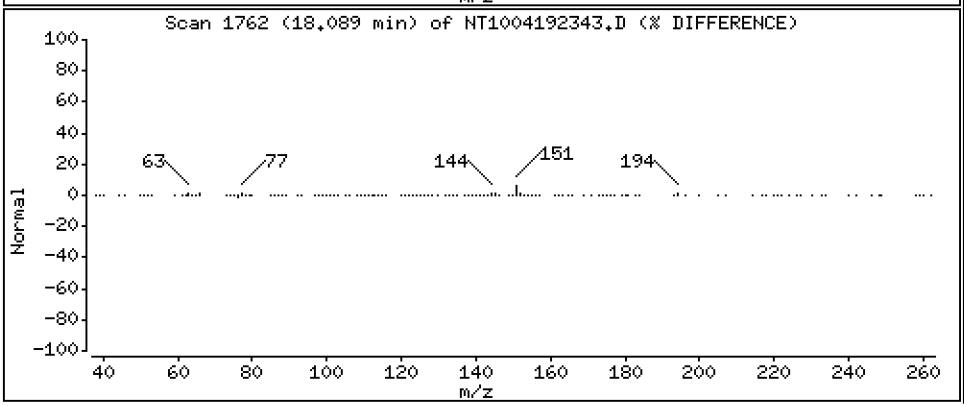












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

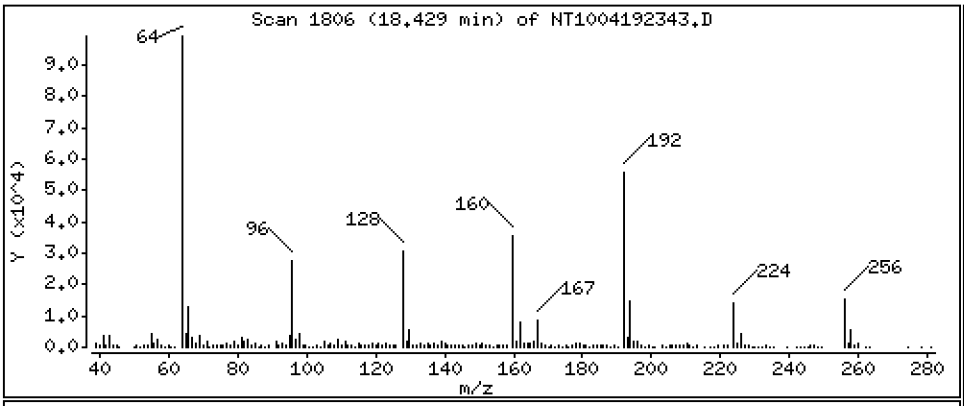
Operator: VTS

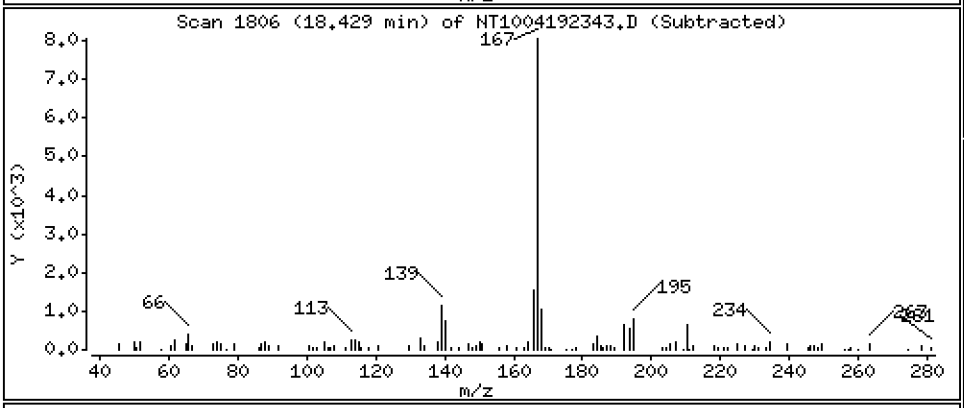
Column phase: ZB-5msi

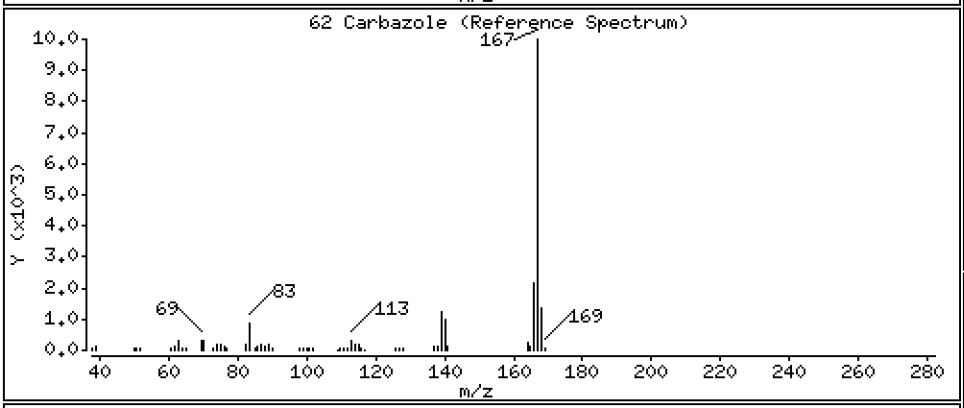
Column diameter: 0.25

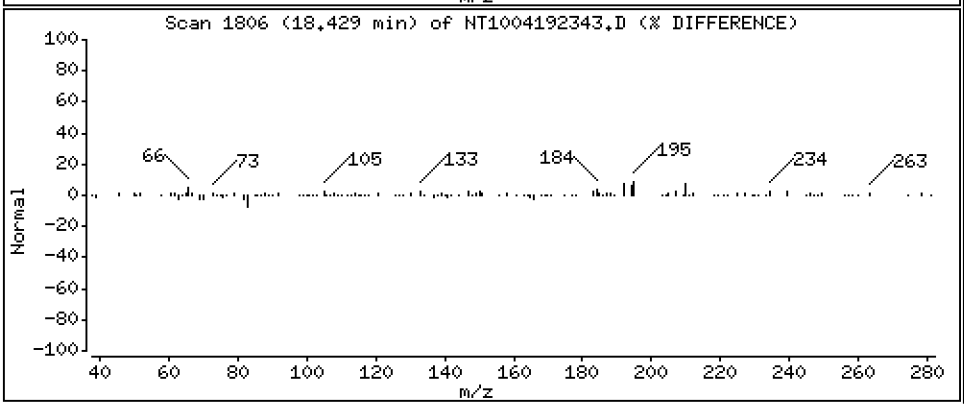
62 Carbazole

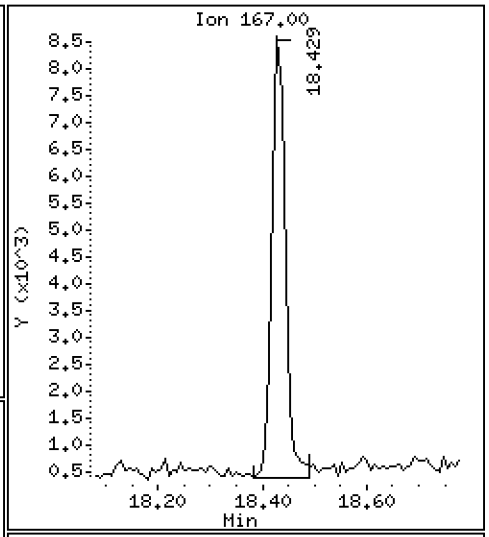
Concentration: 0.1166 ug/mL

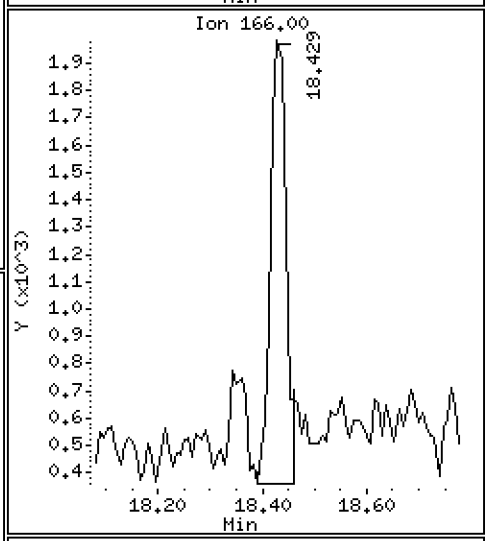


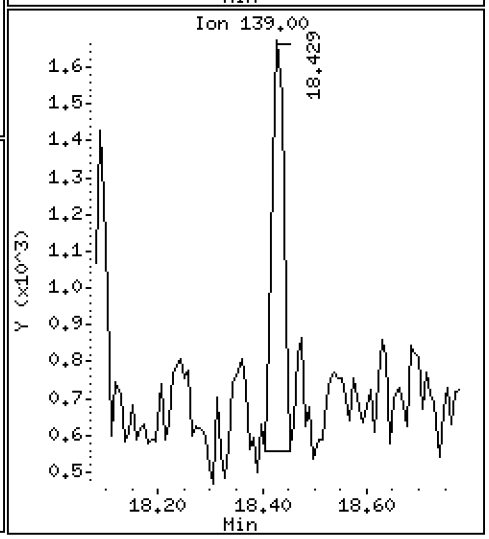












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

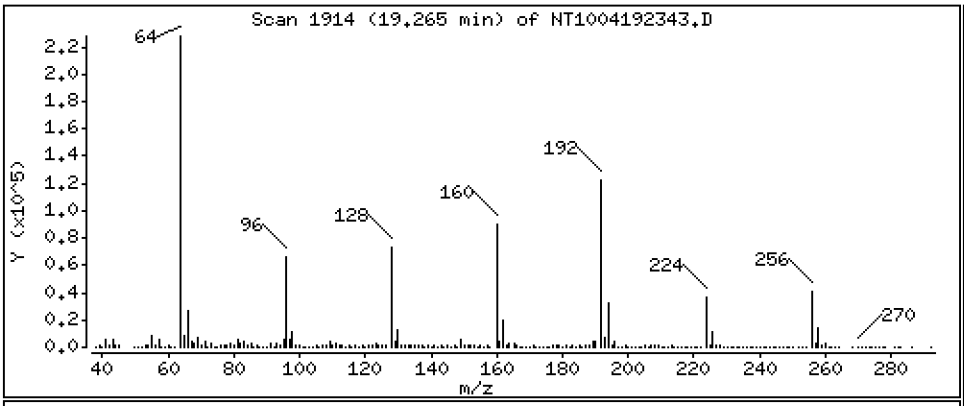
Operator: VTS

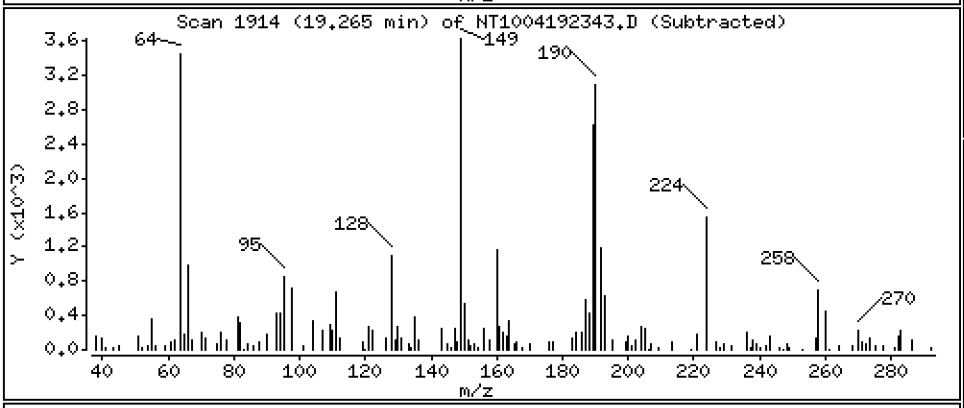
Column phase: ZB-5msi

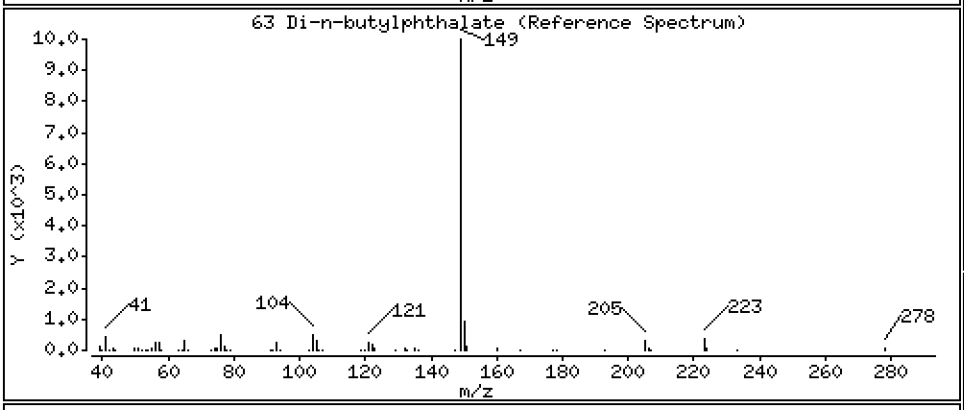
Column diameter: 0.25

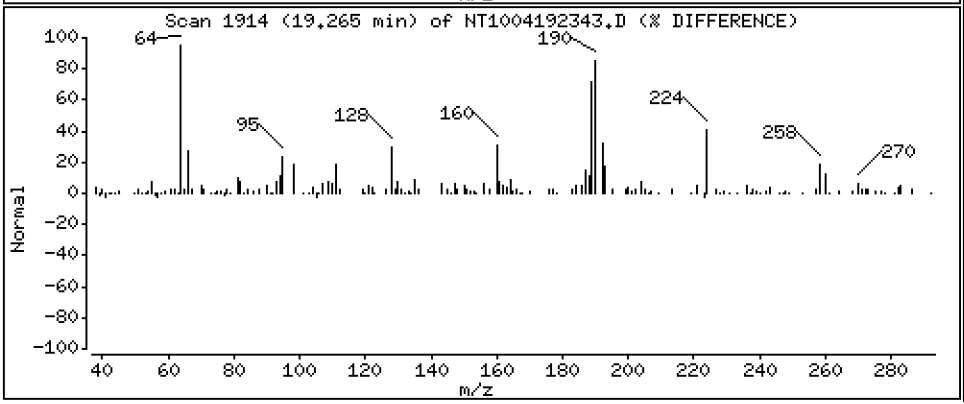
63 Di-n-butylphthalate

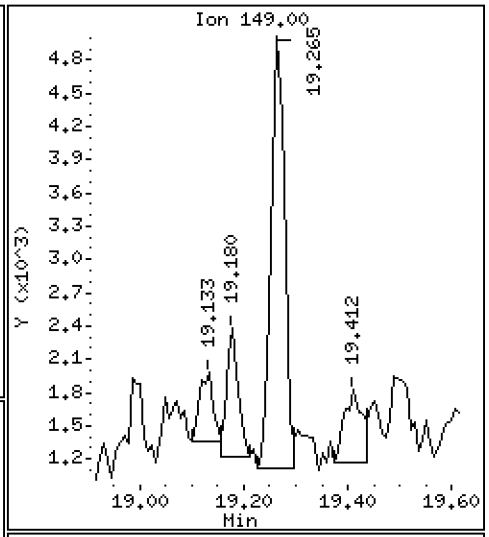
Concentration: 0.04116 ug/mL

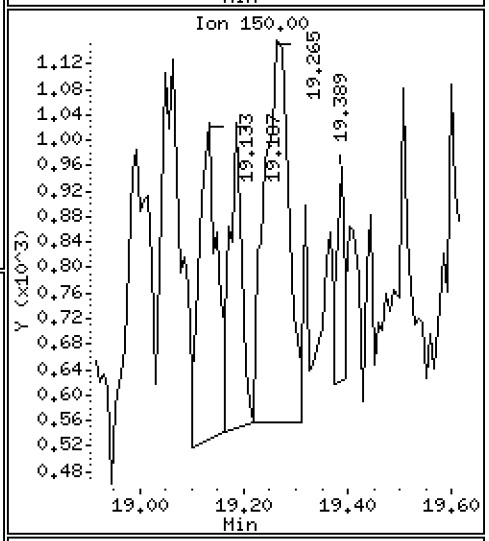


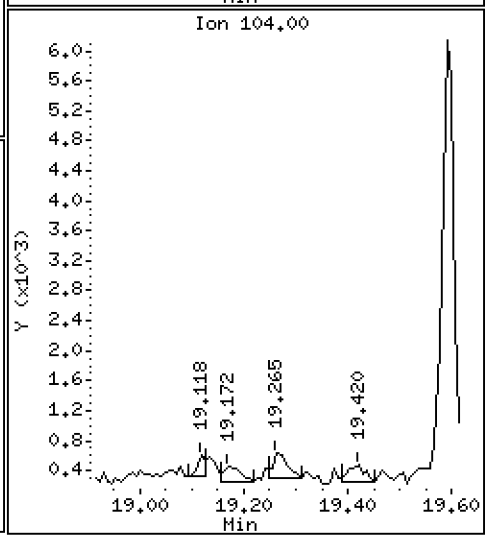












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

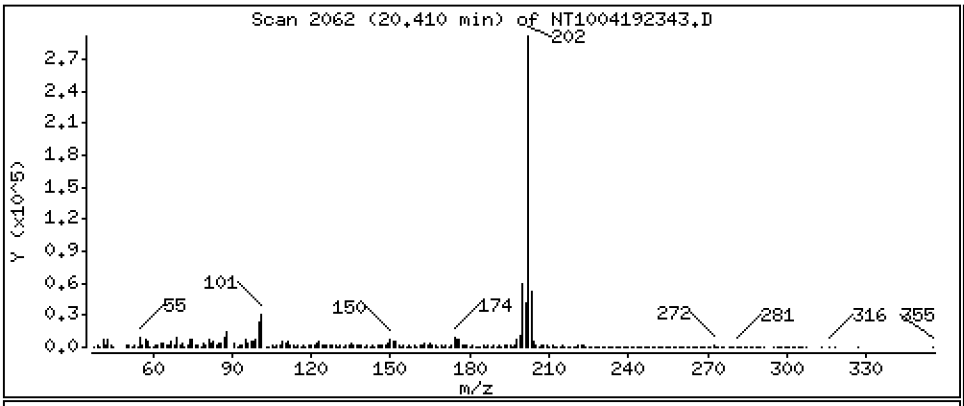
Operator: VTS

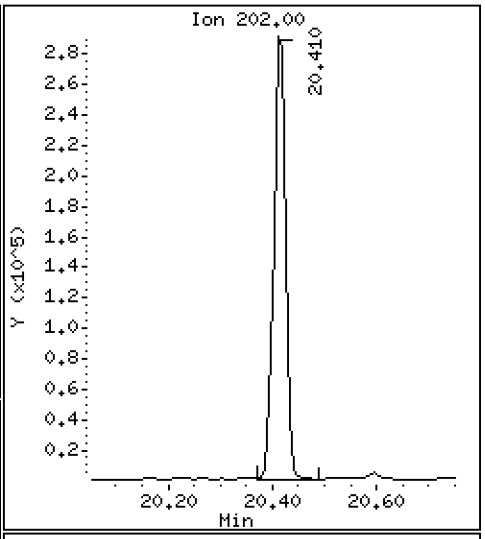
Column phase: ZB-5msi

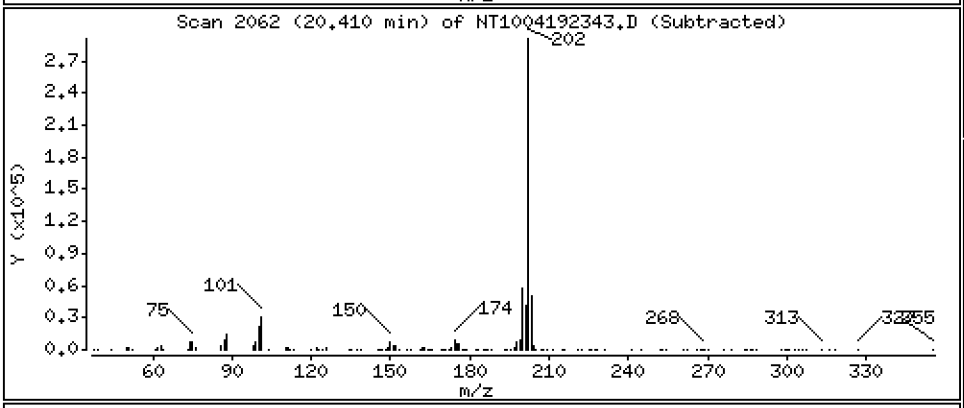
Column diameter: 0.25

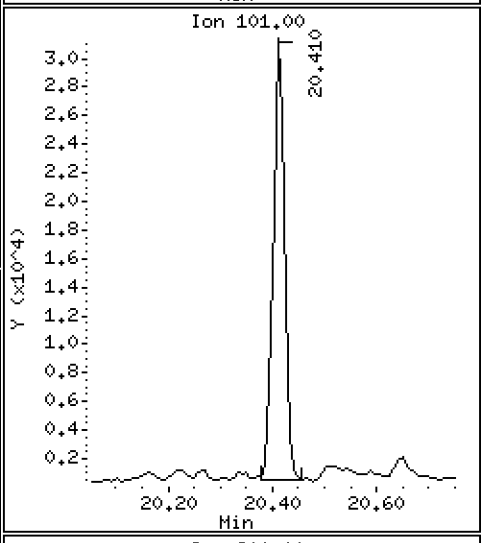
64 Fluoranthene

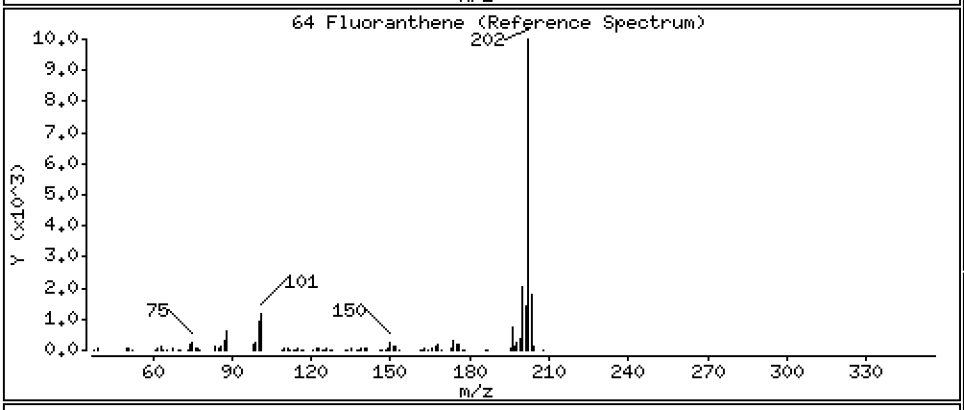
Concentration: 2.199 ug/mL

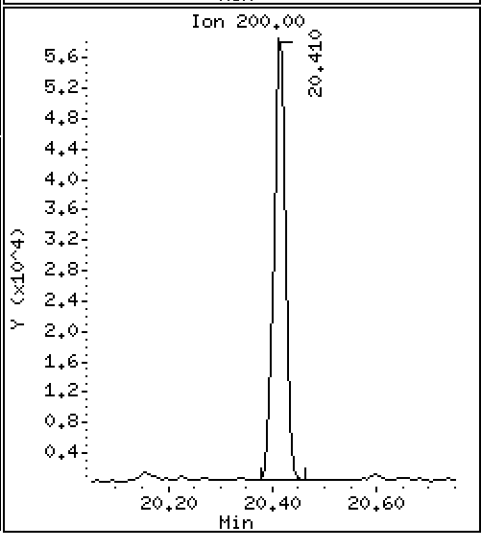


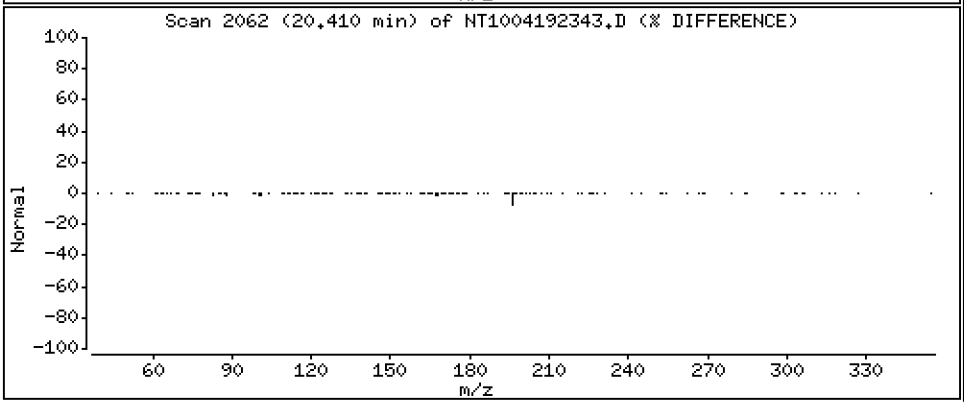












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192343.D

Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

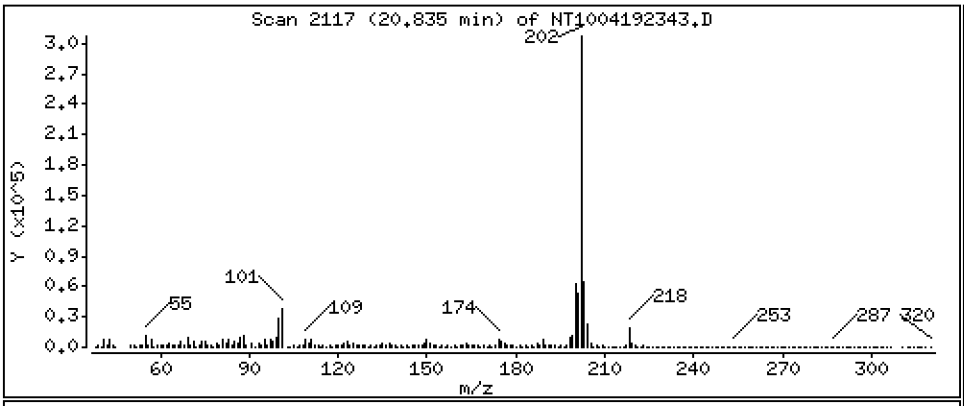
Operator: VTS

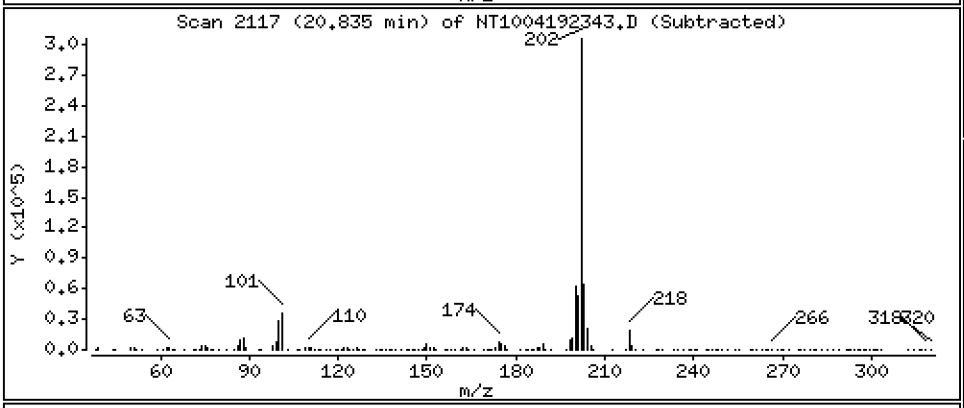
Column phase: ZB-5msi

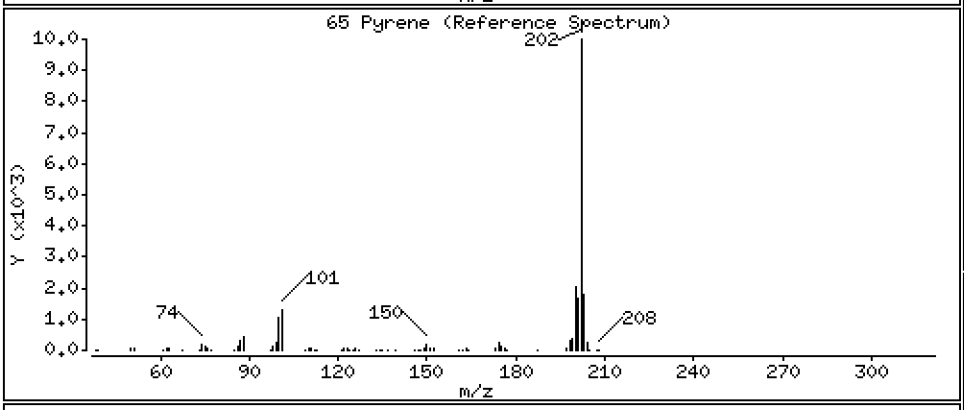
Column diameter: 0.25

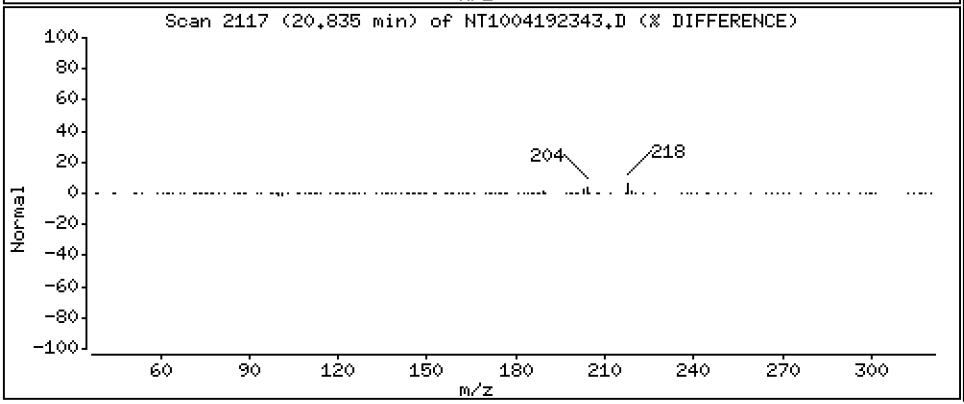
65 Pyrene

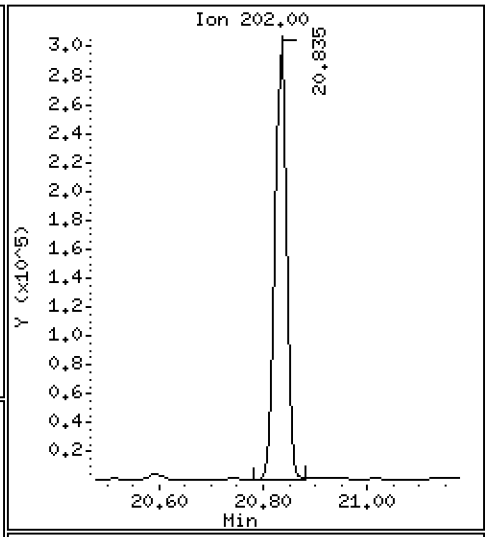
Concentration: 2.024 ug/mL

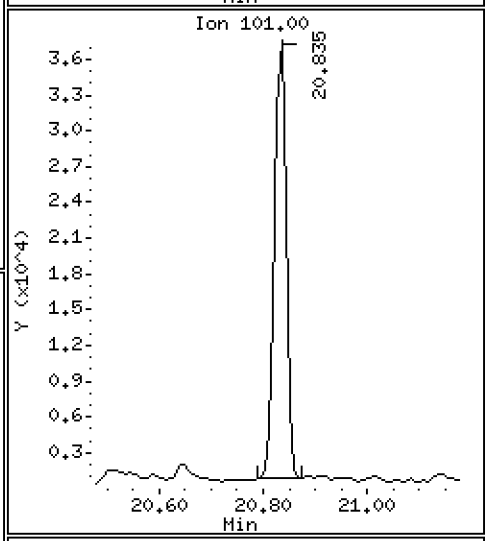


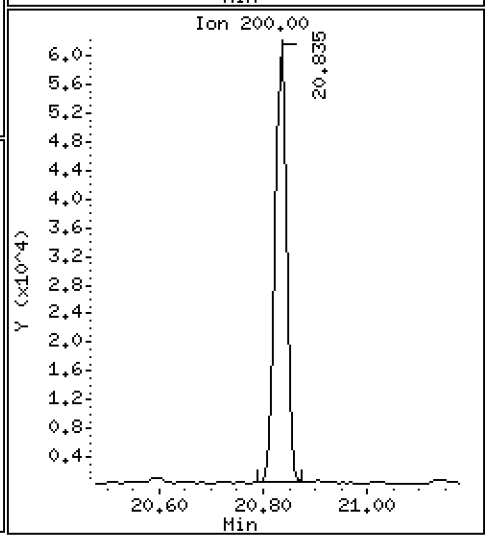












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

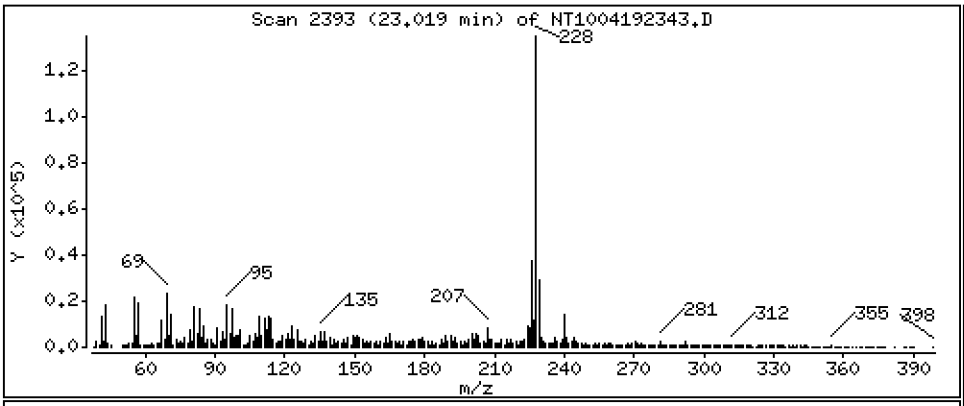
Operator: VTS

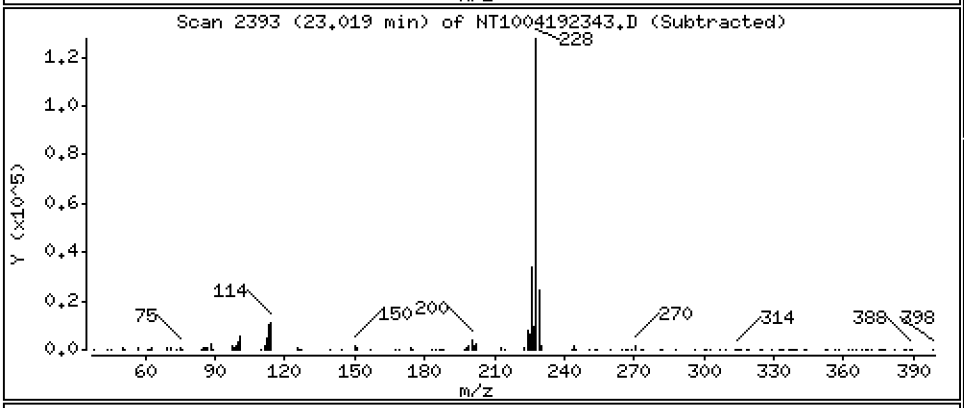
Column phase: ZB-5msi

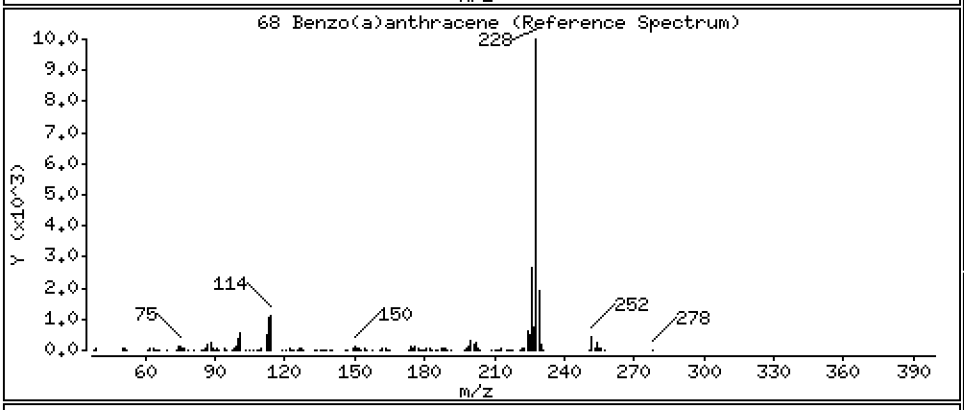
Column diameter: 0.25

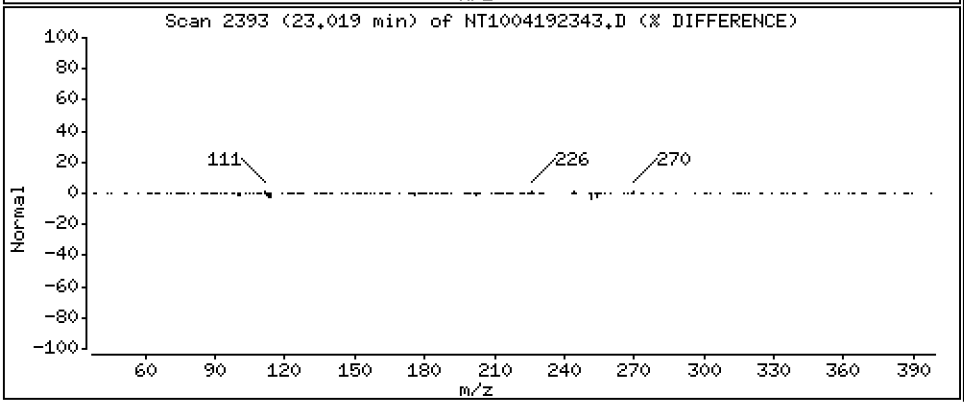
68 Benzo(a)anthracene

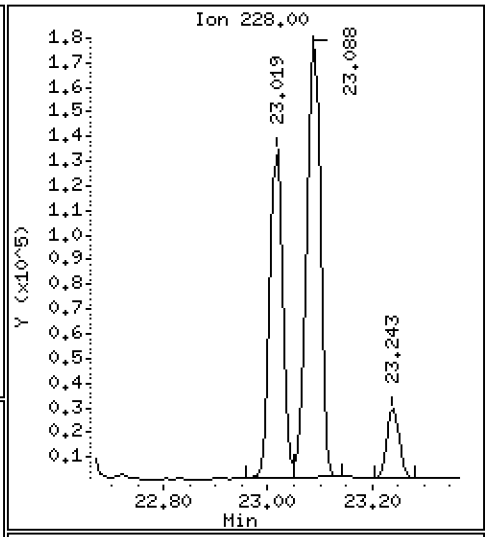
Concentration: 1.202 ug/mL

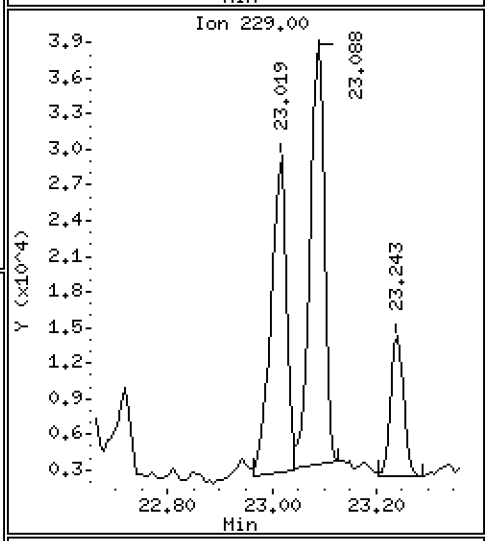


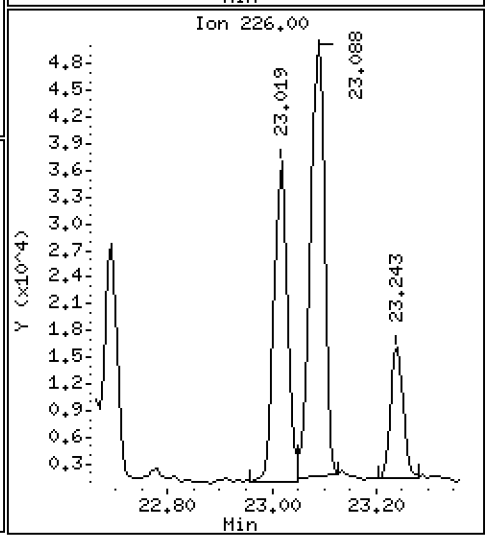












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

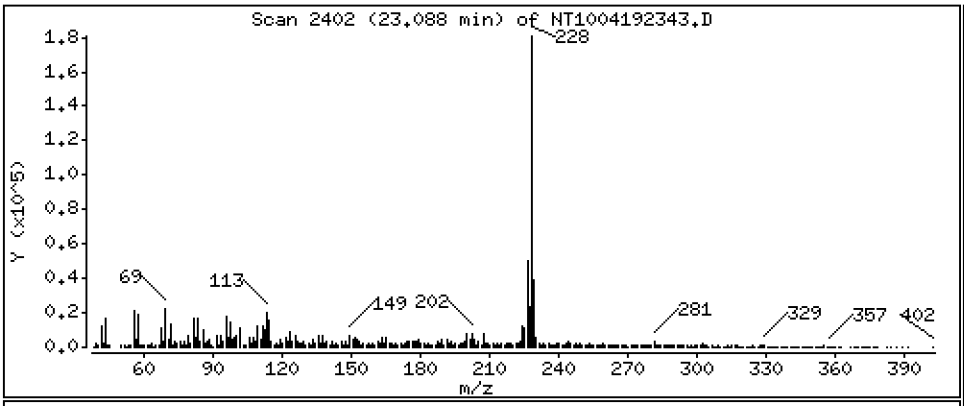
Operator: VTS

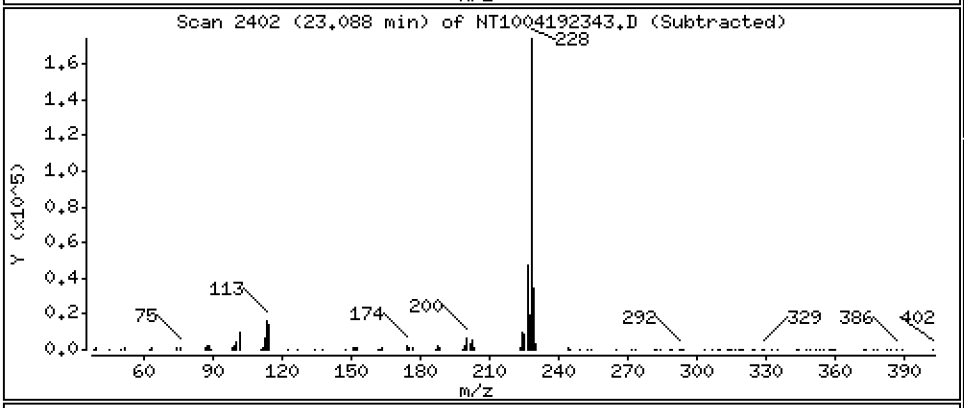
Column phase: ZB-5msi

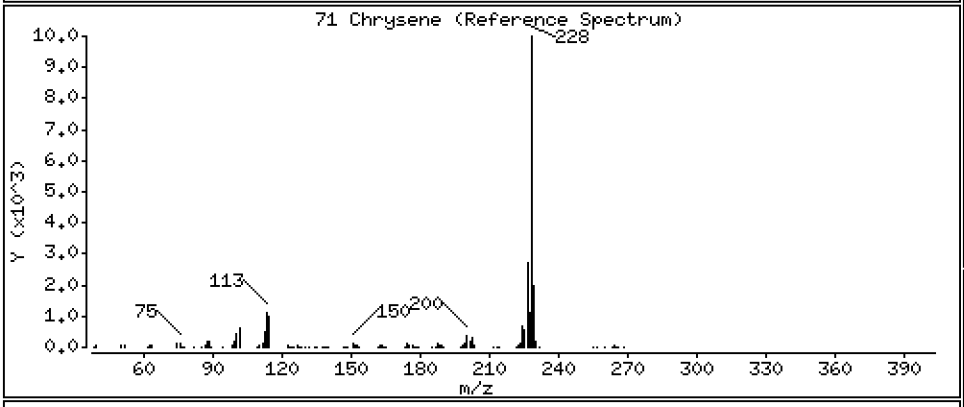
Column diameter: 0.25

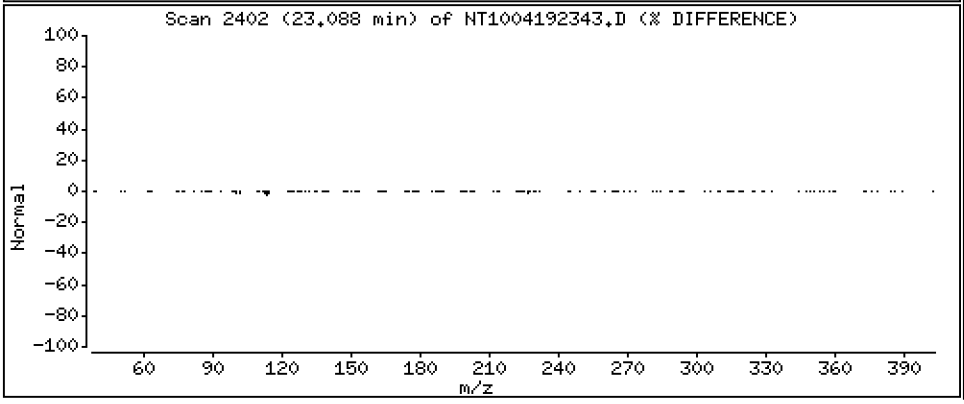
71 Chrysene

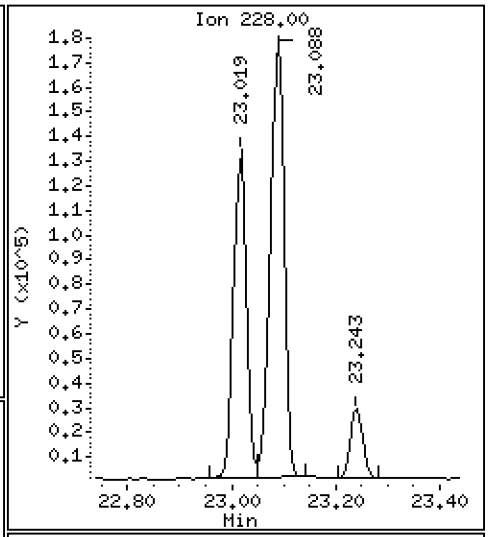
Concentration: 1.729 ug/mL

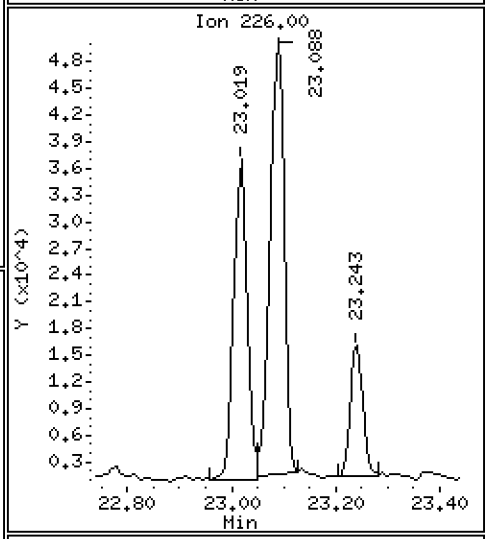


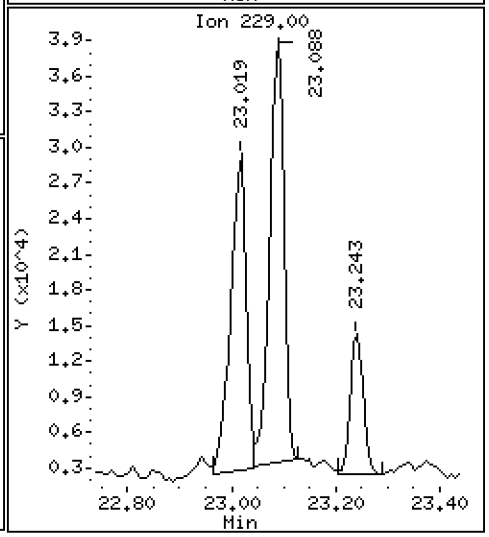












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

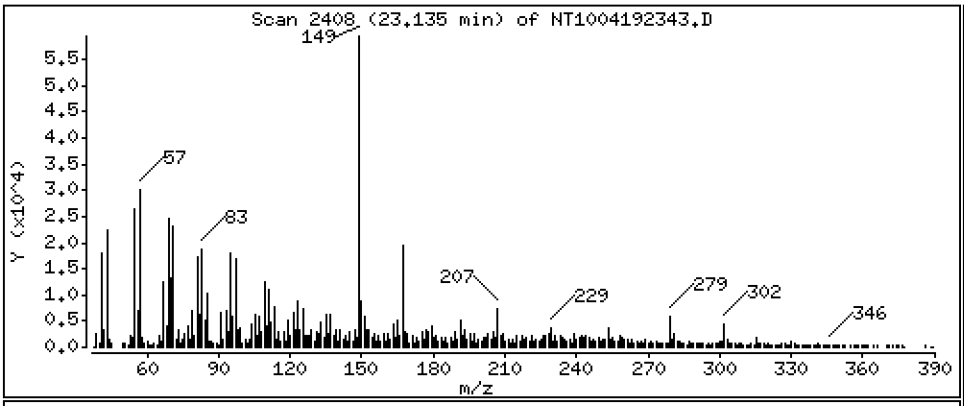
Operator: VTS

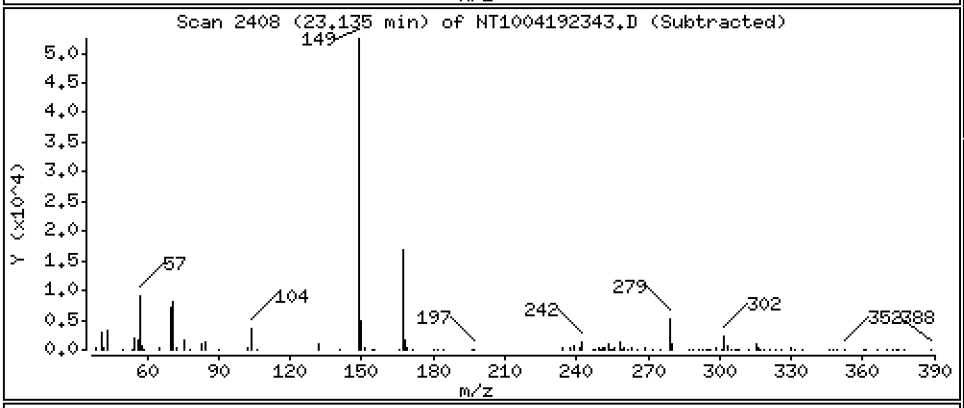
Column phase: ZB-5msi

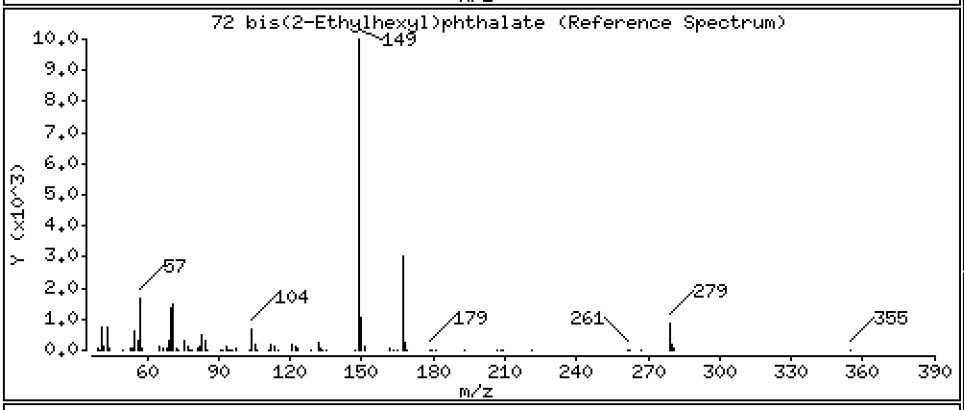
Column diameter: 0.25

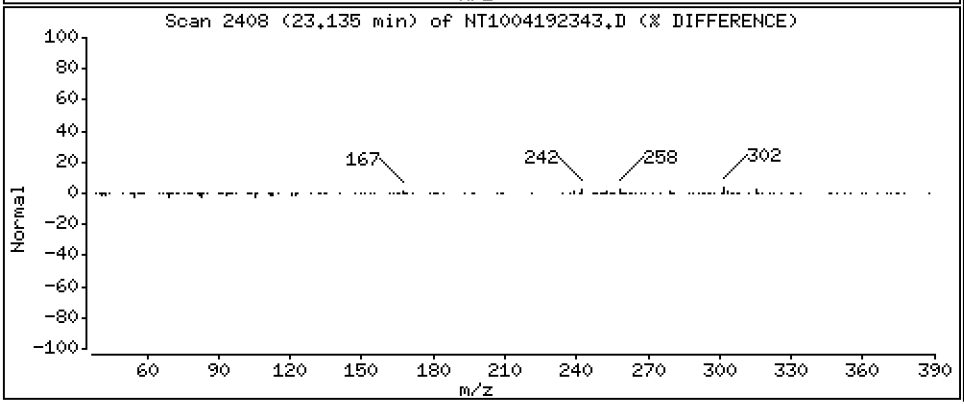
72 bis(2-Ethylhexyl)phthalate

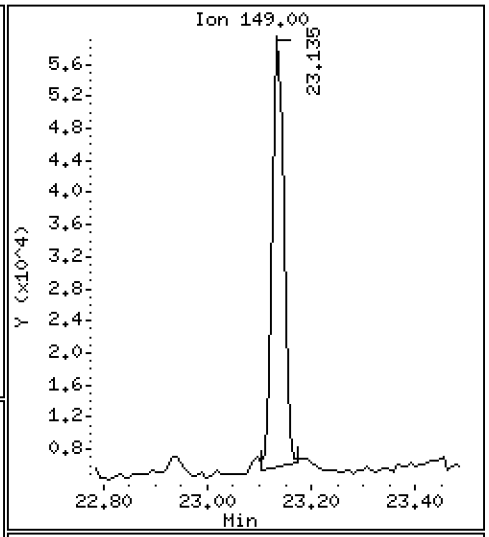
Concentration: 0.6526 ug/mL

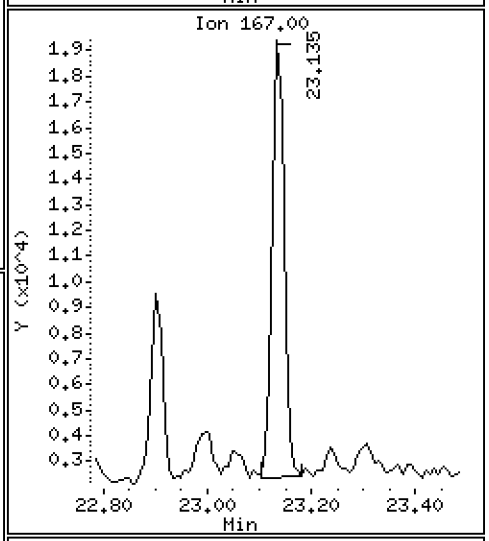


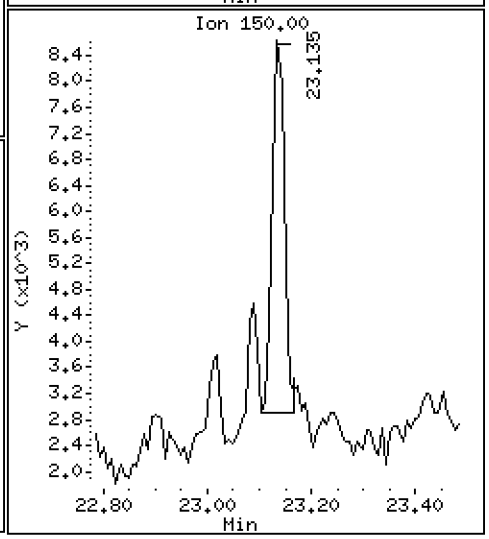












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

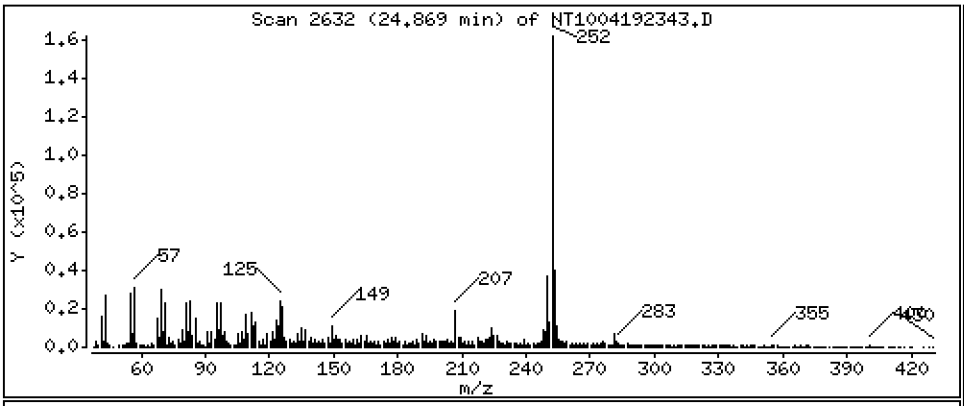
Operator: VTS

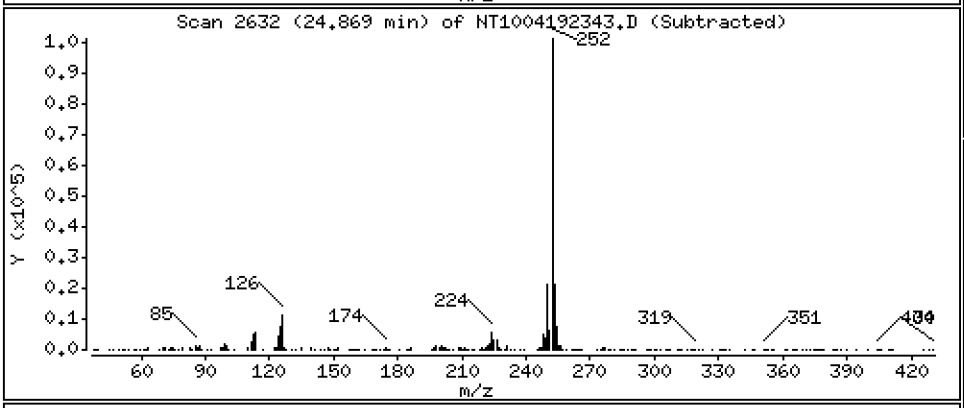
Column phase: ZB-5msi

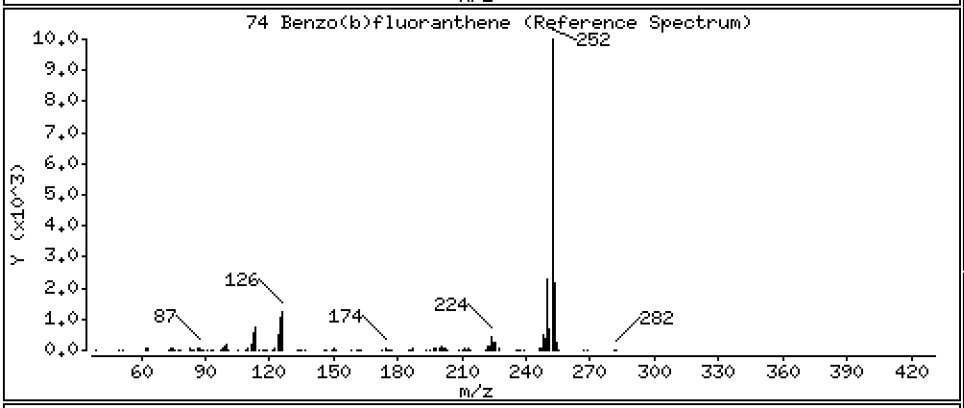
Column diameter: 0.25

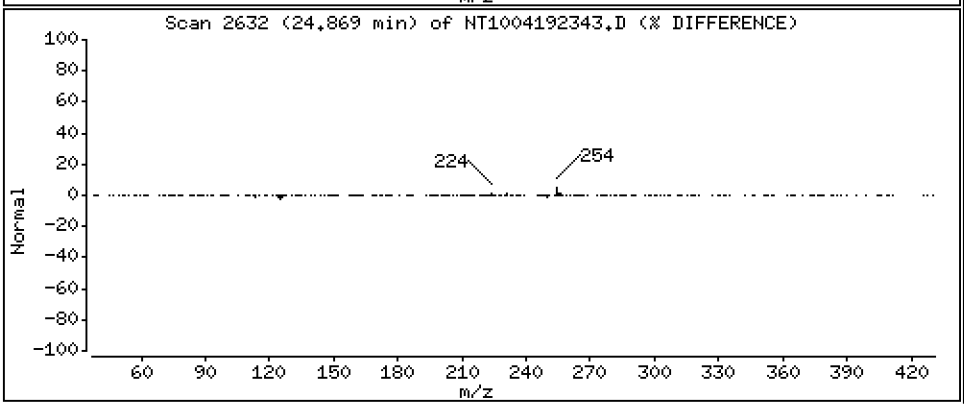
74 Benzo(b)fluoranthene

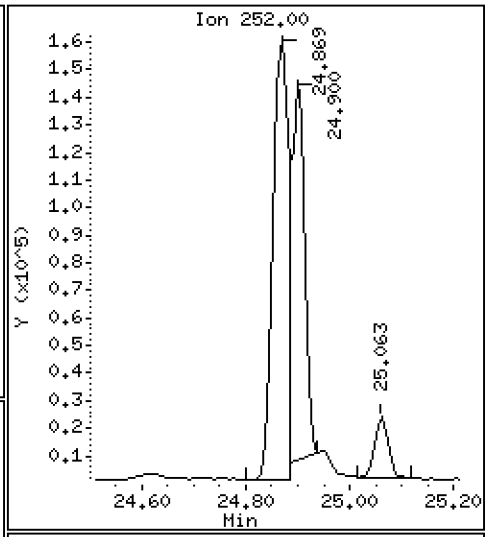
Concentration: 1.621 ug/mL

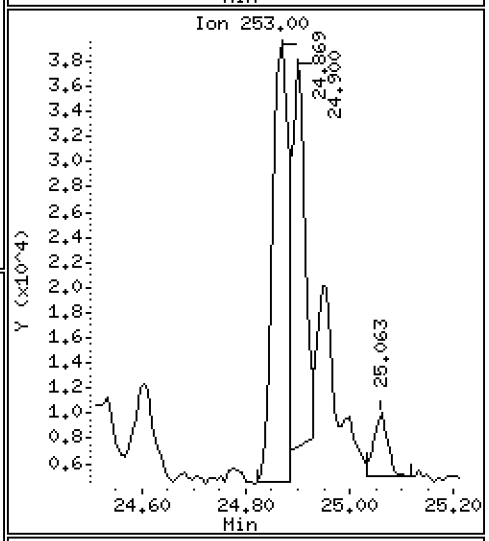


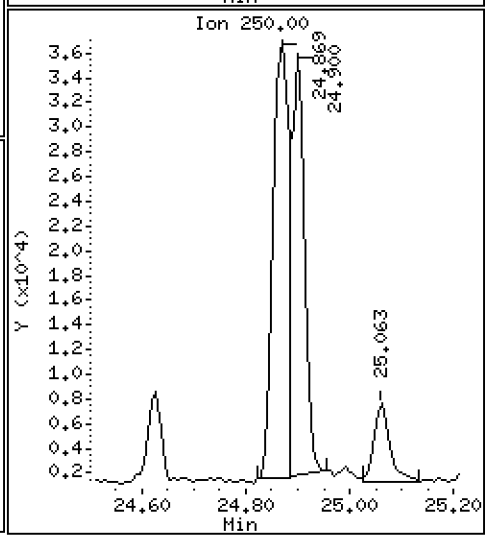












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

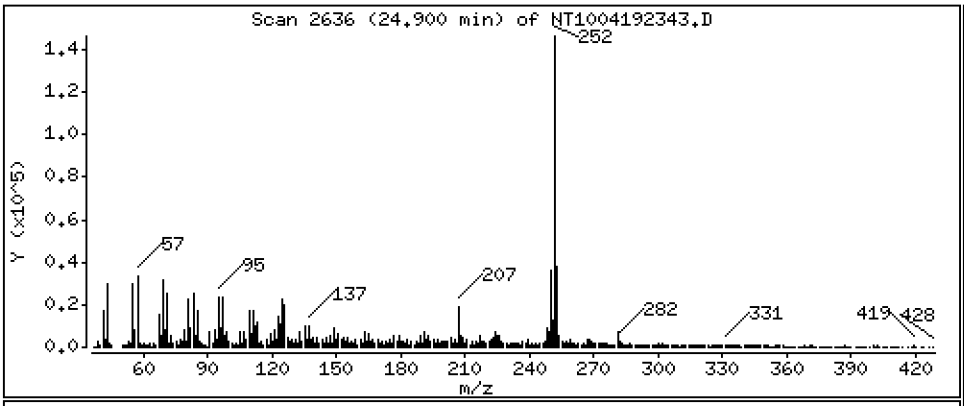
Operator: VTS

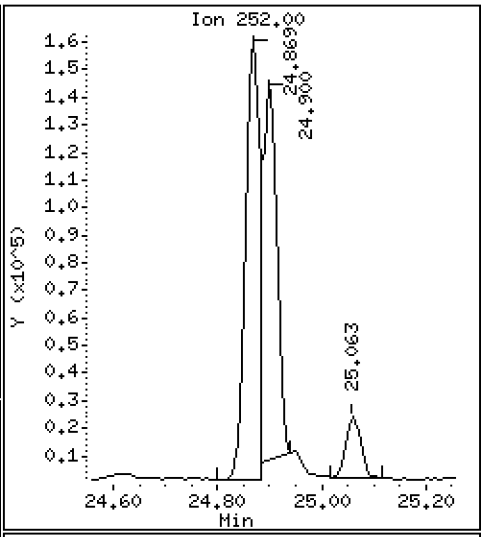
Column phase: ZB-5msi

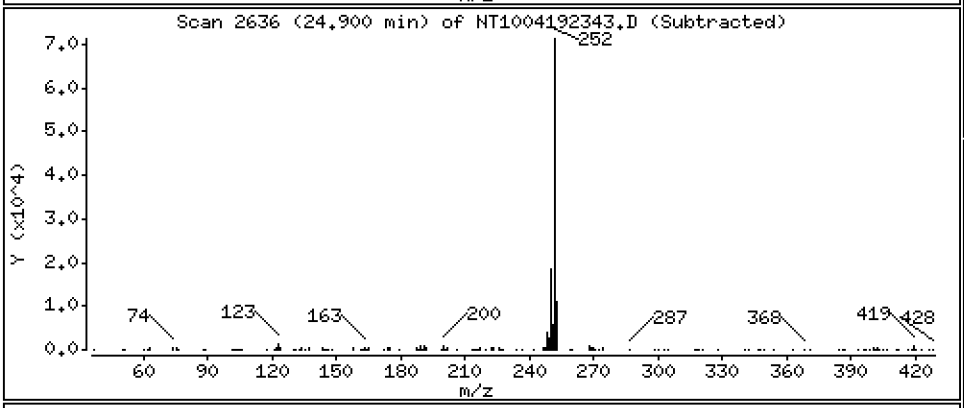
Column diameter: 0.25

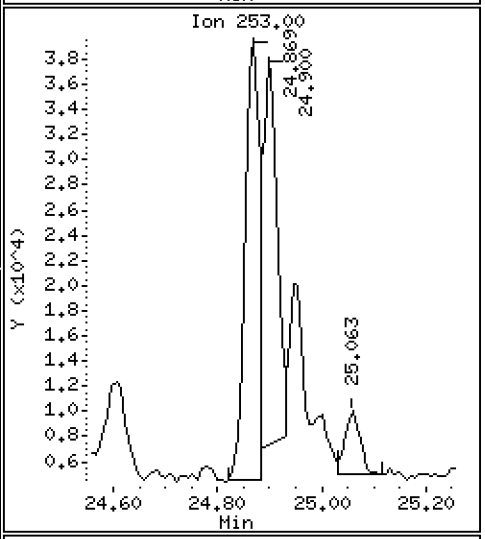
75 Benzo(k)fluoranthene

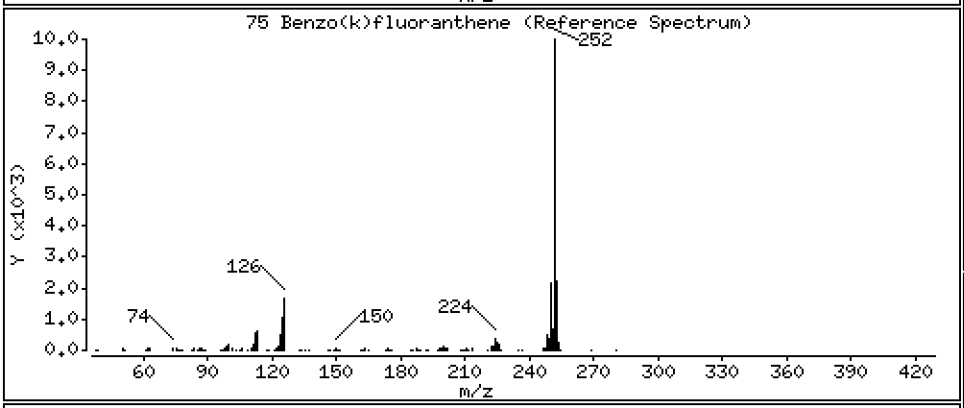
Concentration: 1.318 ug/mL

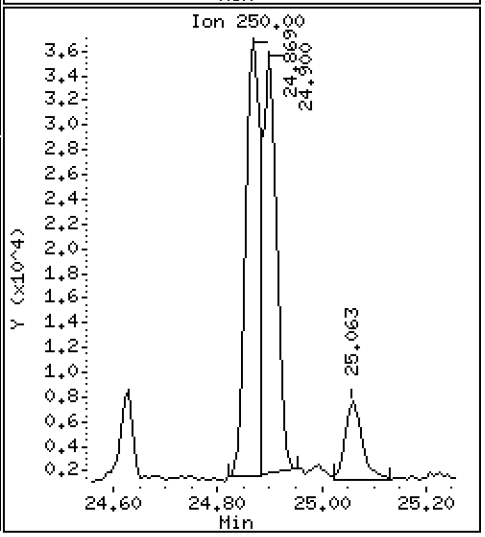


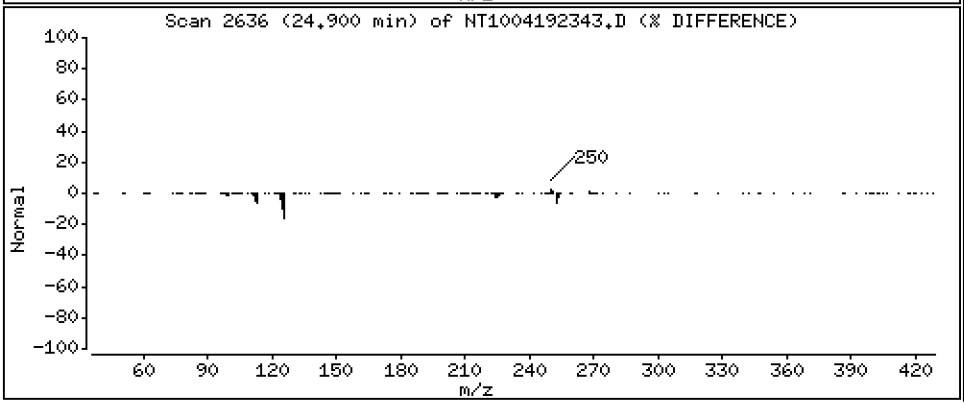












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

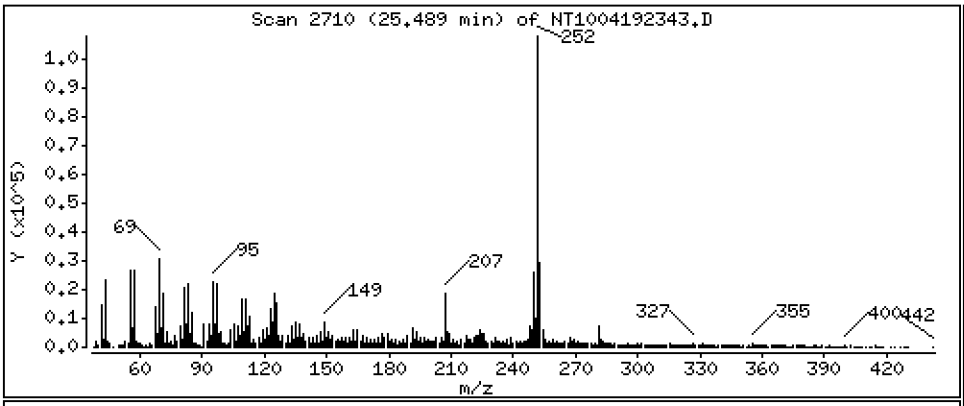
Operator: VTS

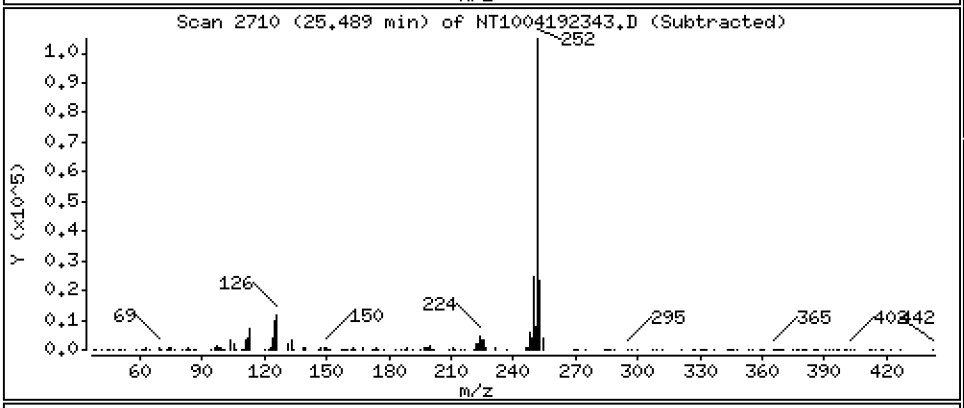
Column phase: ZB-5msi

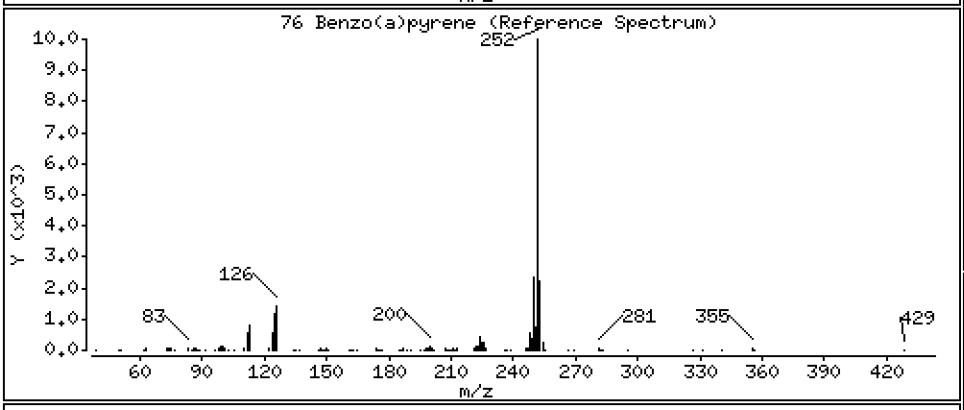
Column diameter: 0.25

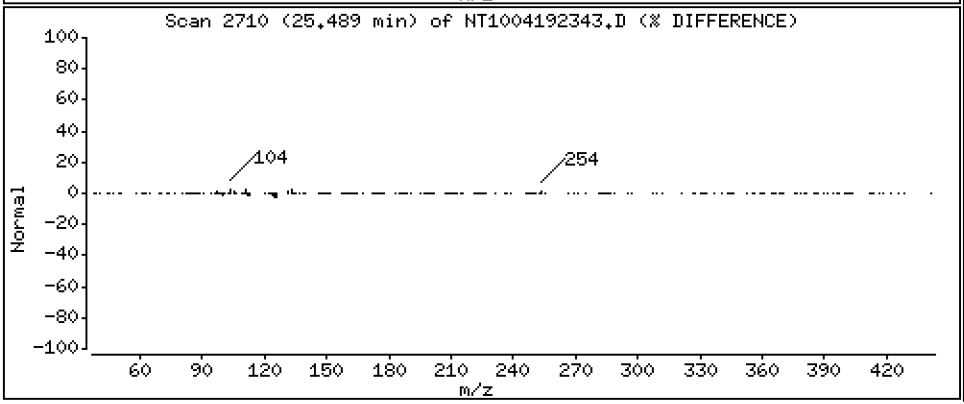
76 Benzo(a)pyrene

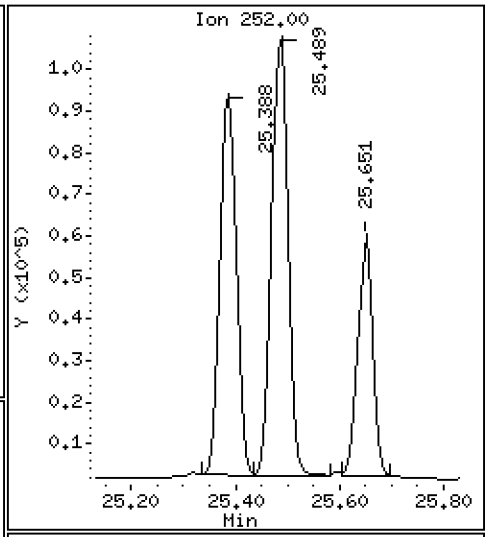
Concentration: 1.265 ug/mL

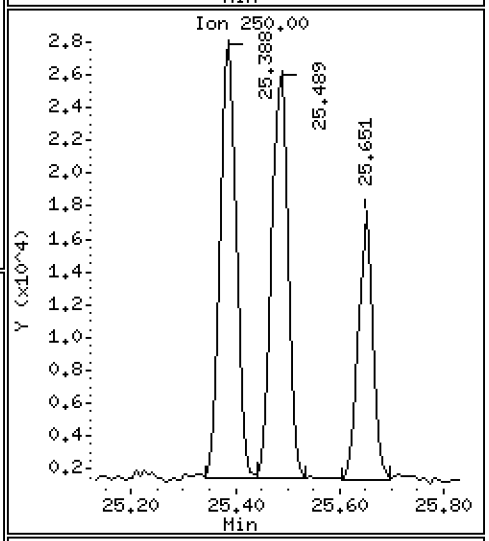


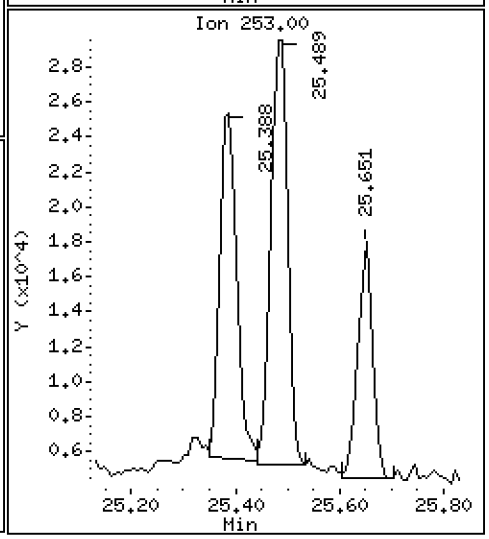












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192343.D

Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

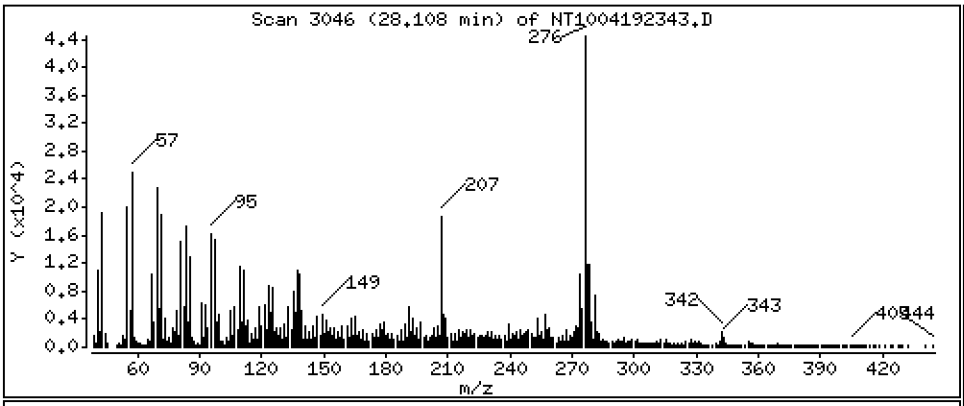
Operator: VTS

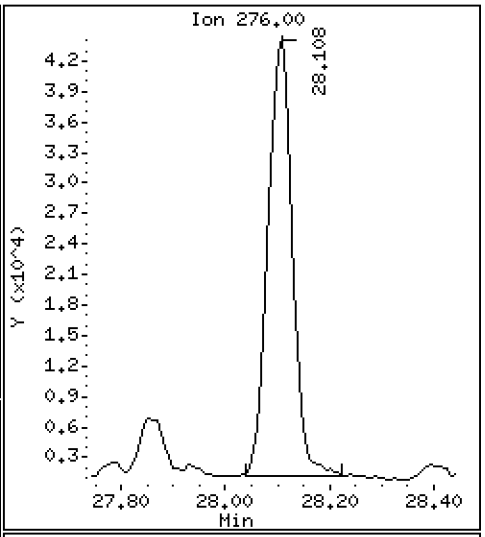
Column phase: ZB-5msi

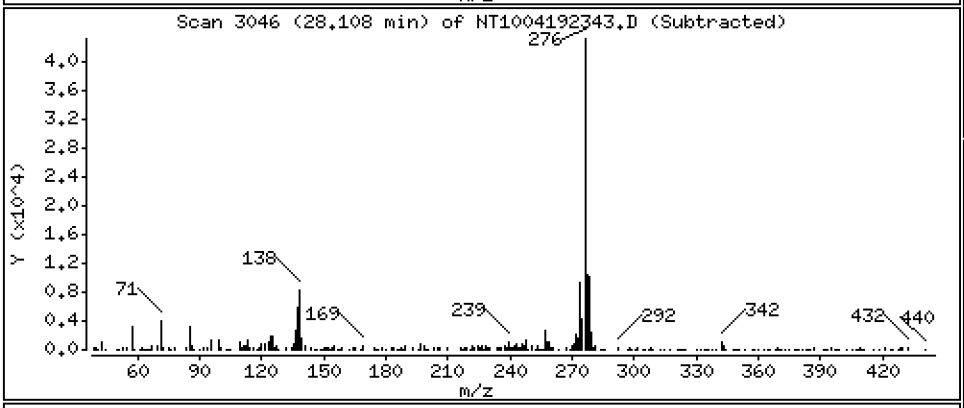
Column diameter: 0.25

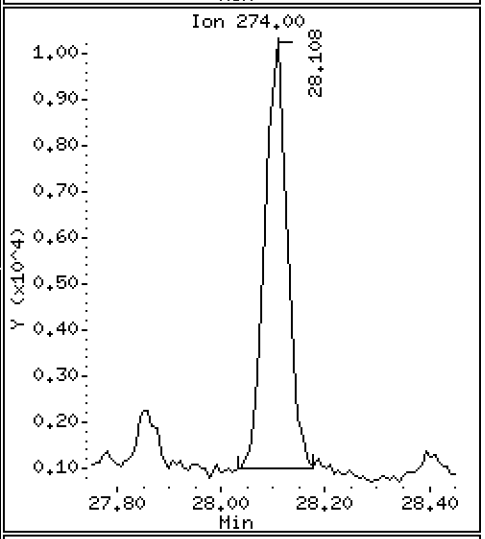
78 Indeno(1,2,3-cd)pyrene

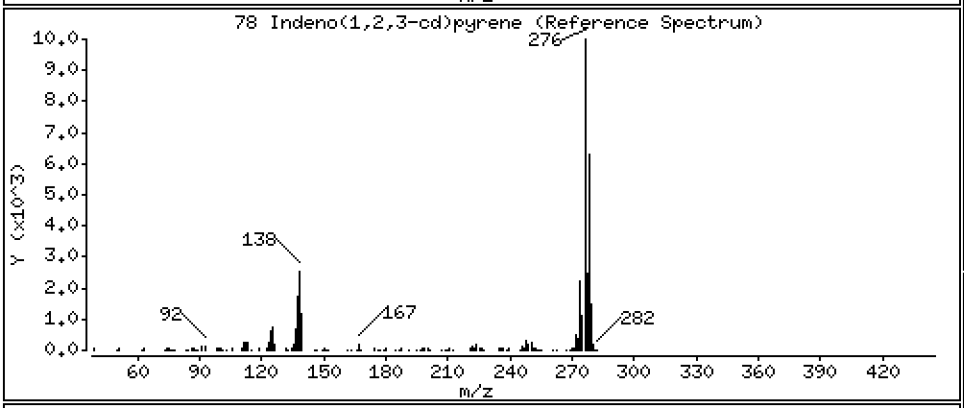
Concentration: 0.6102 ug/mL

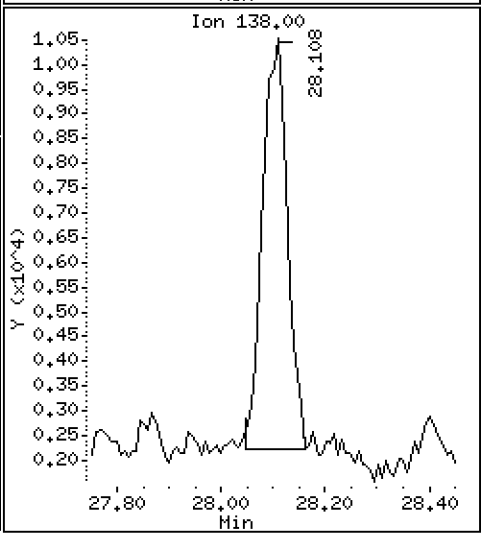


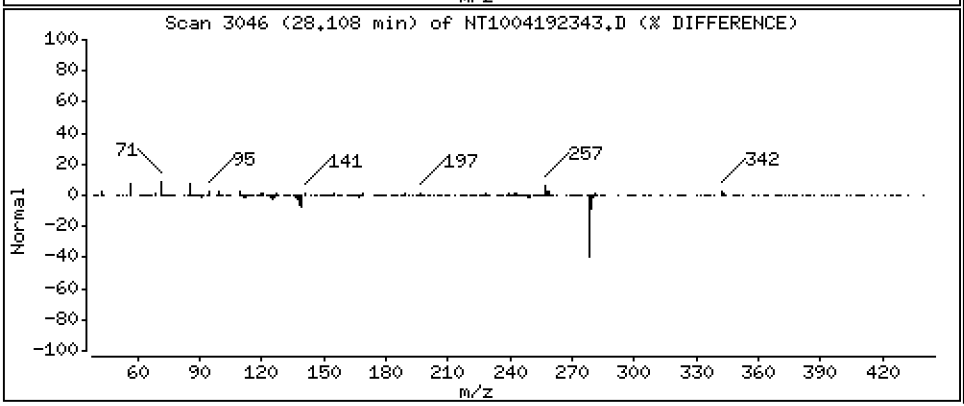












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

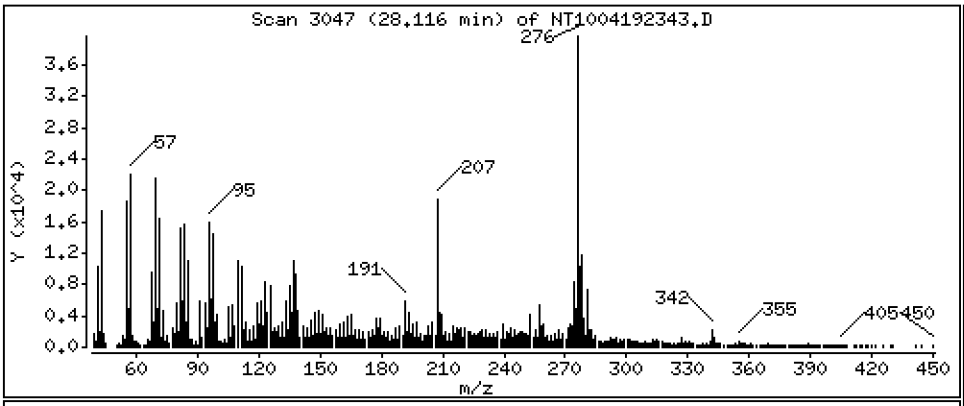
Operator: VTS

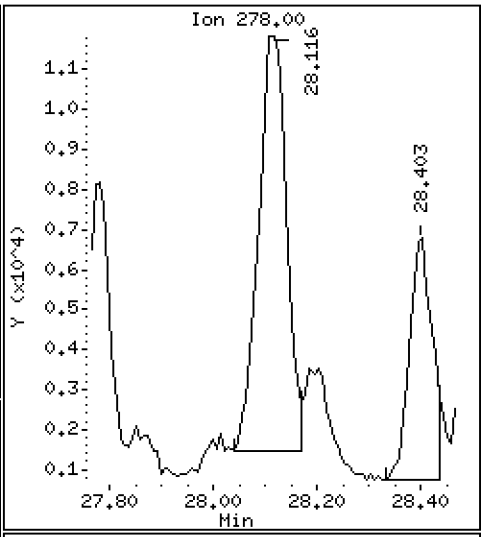
Column phase: ZB-5msi

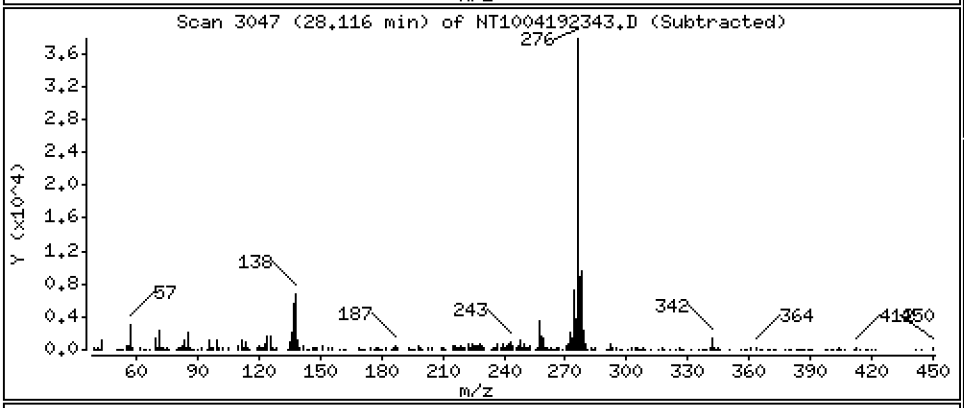
Column diameter: 0.25

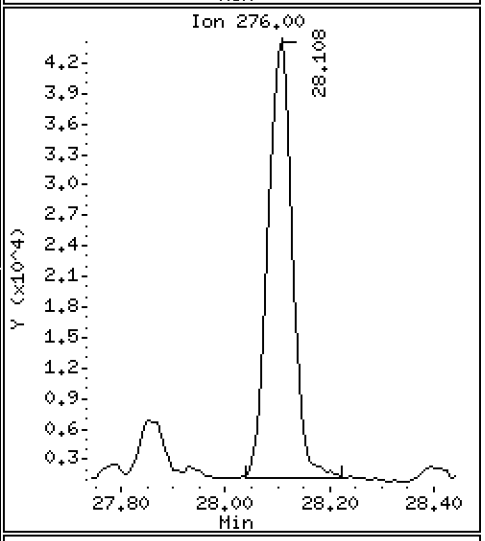
79 Dibenzo(a,h)anthracene

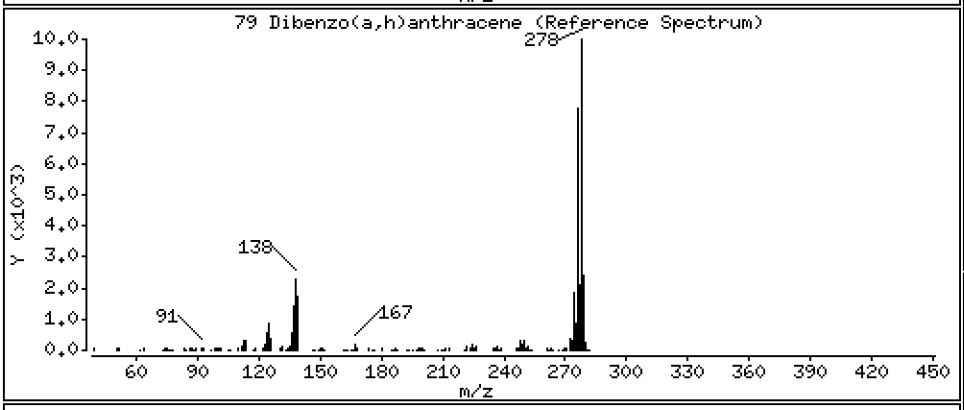
Concentration: 0.2048 ug/mL

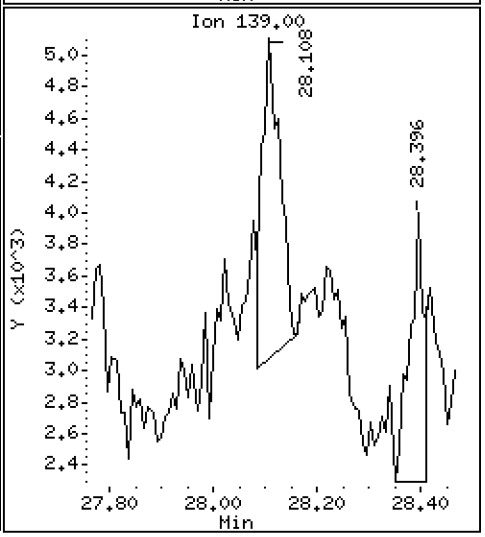


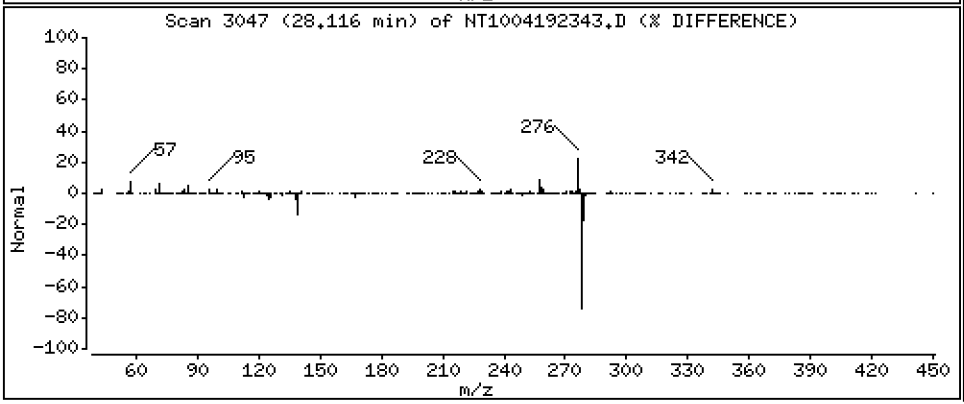












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192343.D

Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

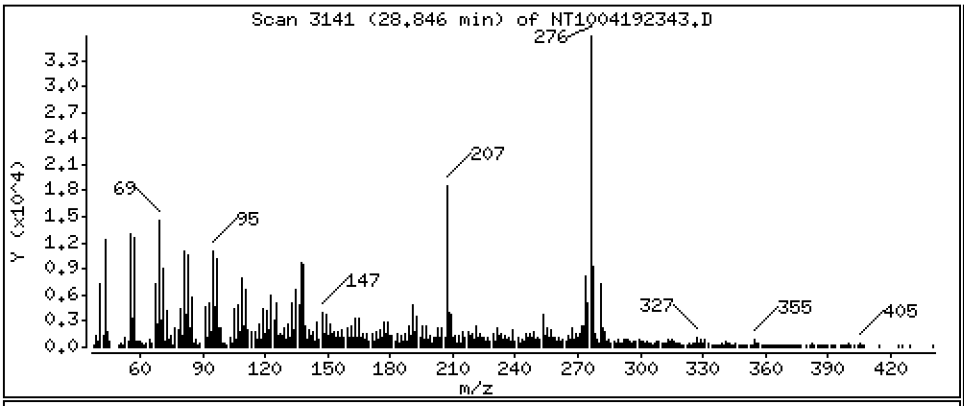
Operator: VTS

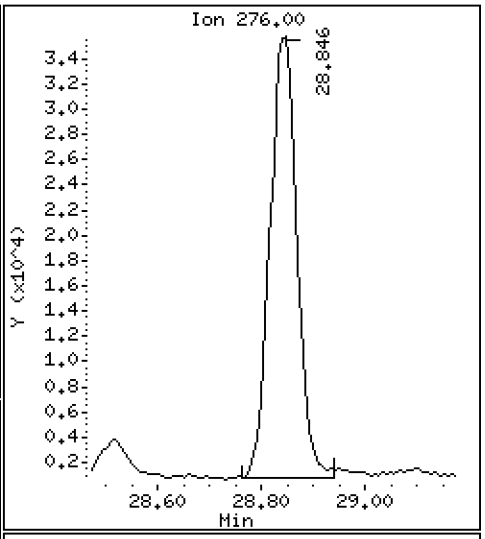
Column phase: ZB-5msi

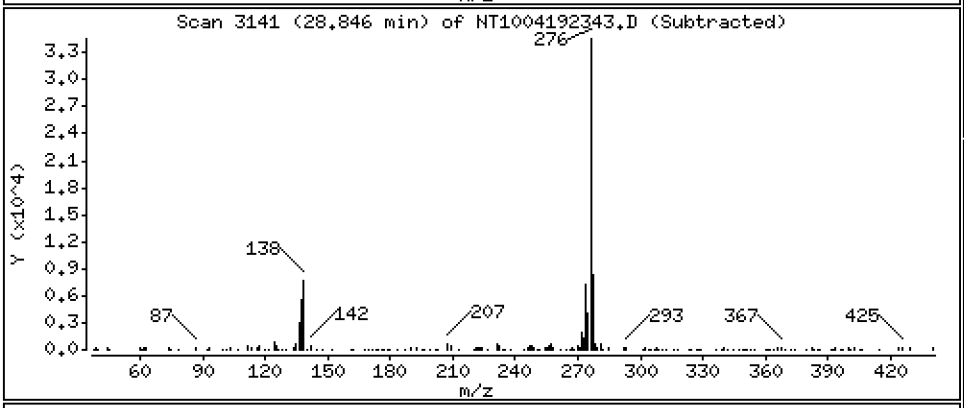
Column diameter: 0.25

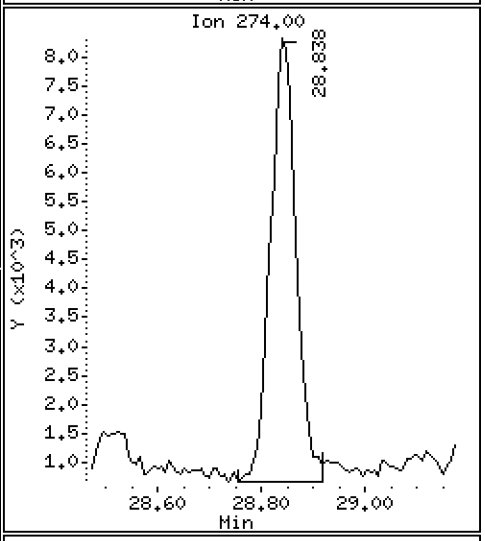
80 Benzo(g,h,i)perylene

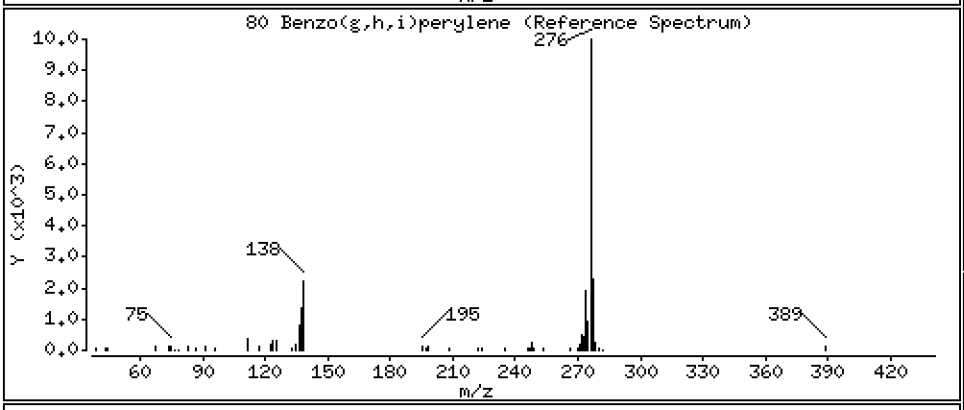
Concentration: 0.6486 ug/mL

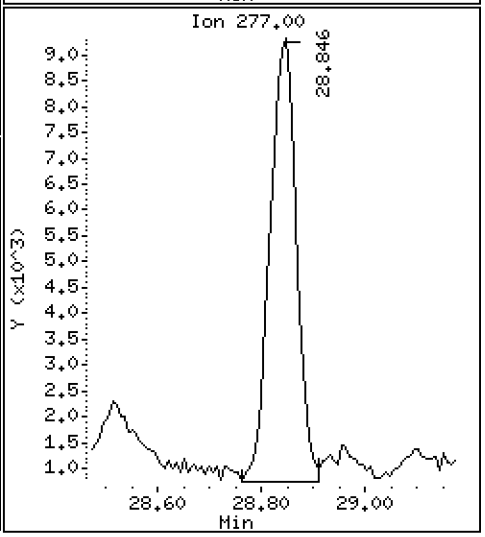


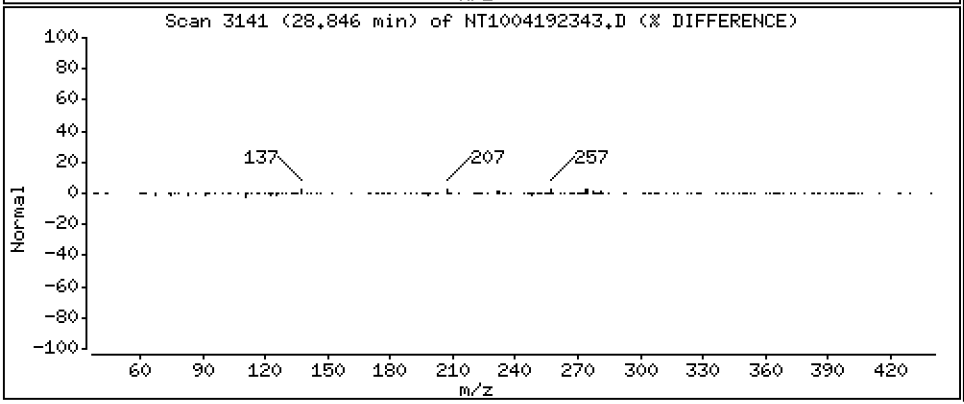












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

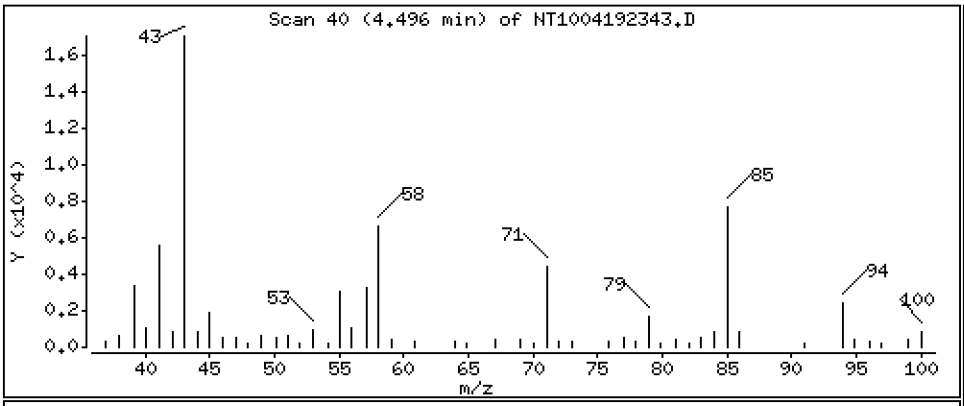
Operator: VTS

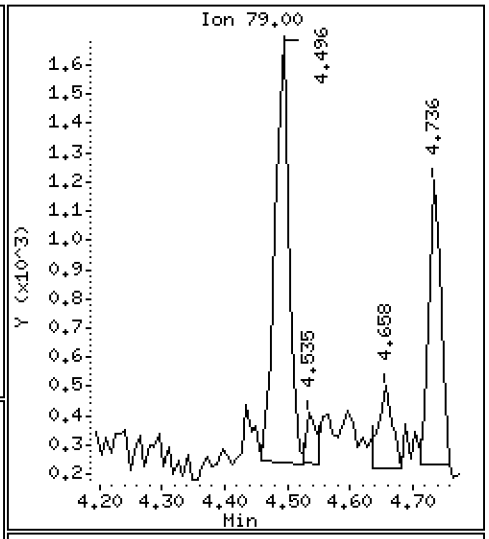
Column phase: ZB-5msi

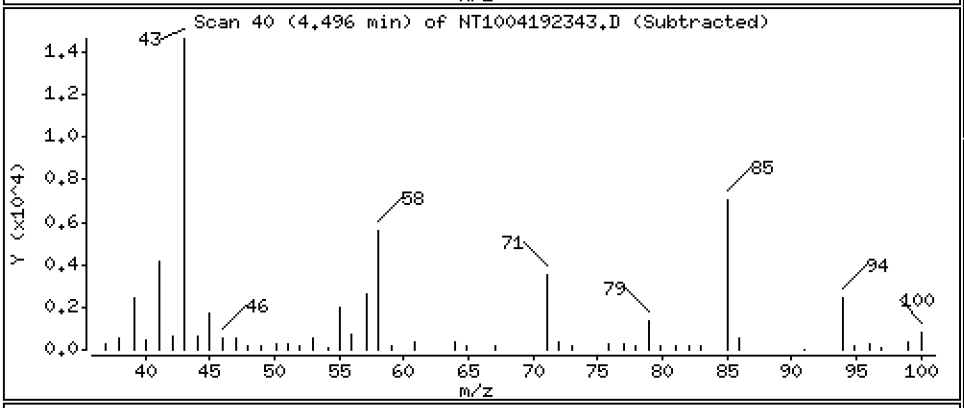
Column diameter: 0.25

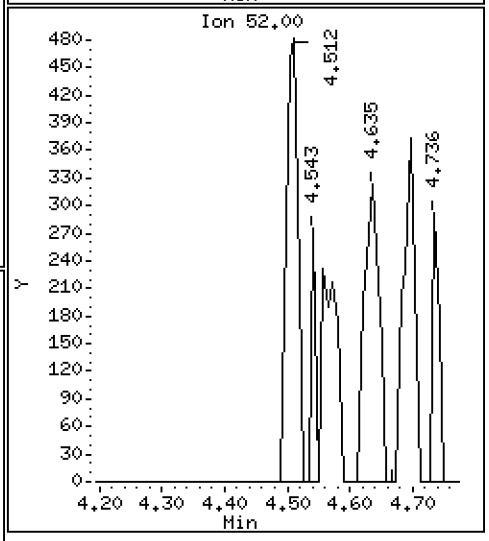
103 Pyridine

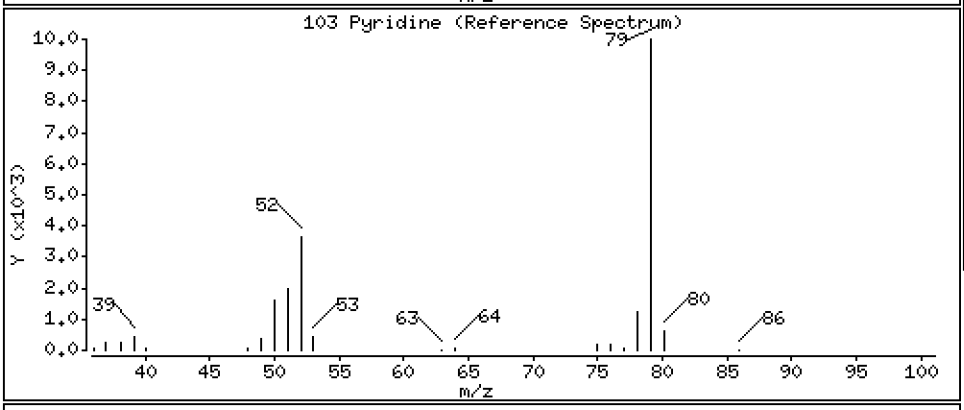
Concentration: 0.05419 ug/mL

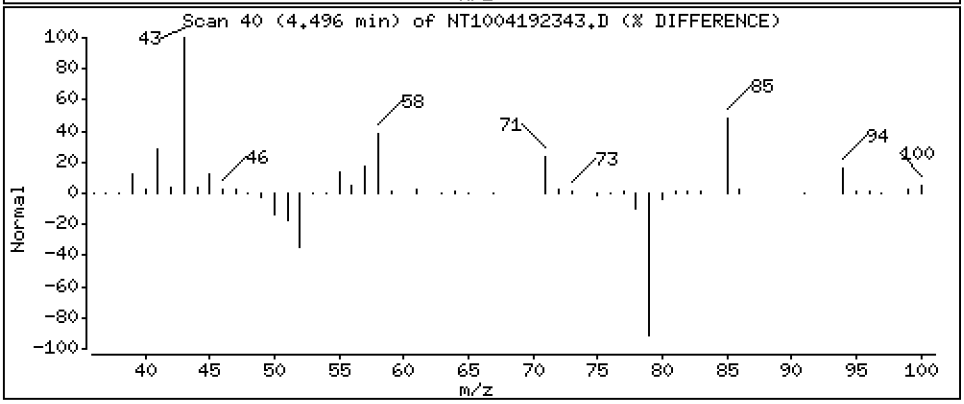












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

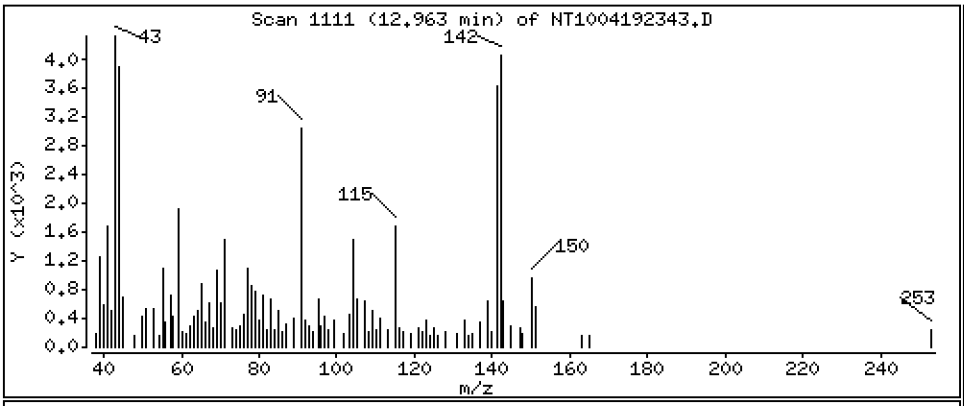
Operator: VTS

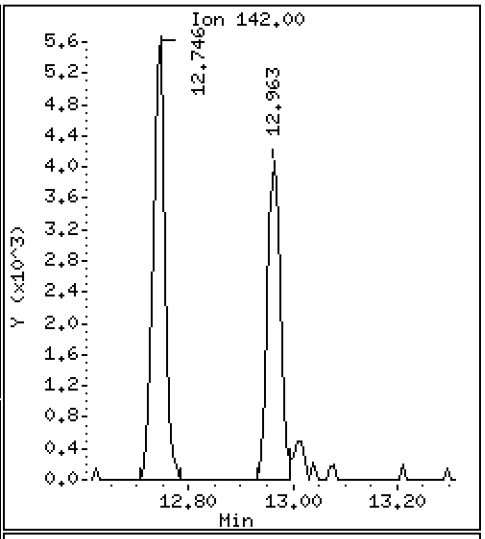
Column phase: ZB-5msi

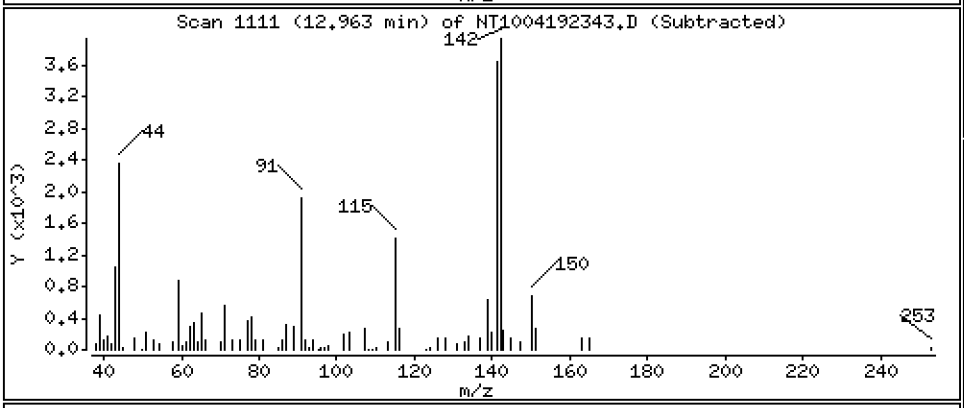
Column diameter: 0.25

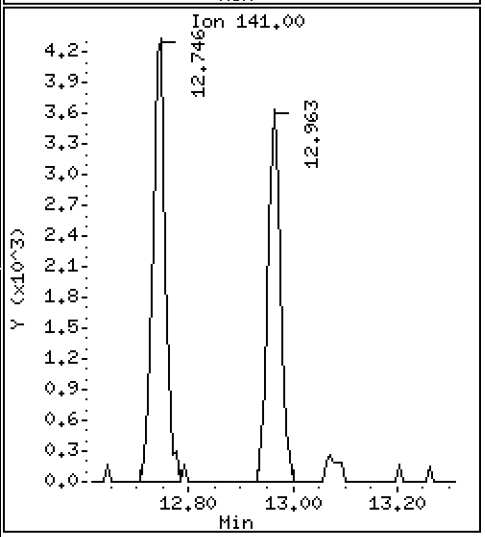
105 1-methylnaphthalene

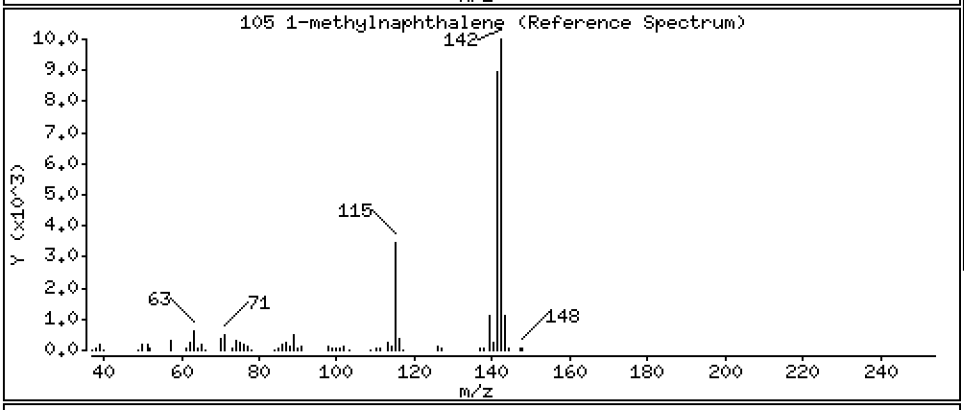
Concentration: 0.07390 ug/mL

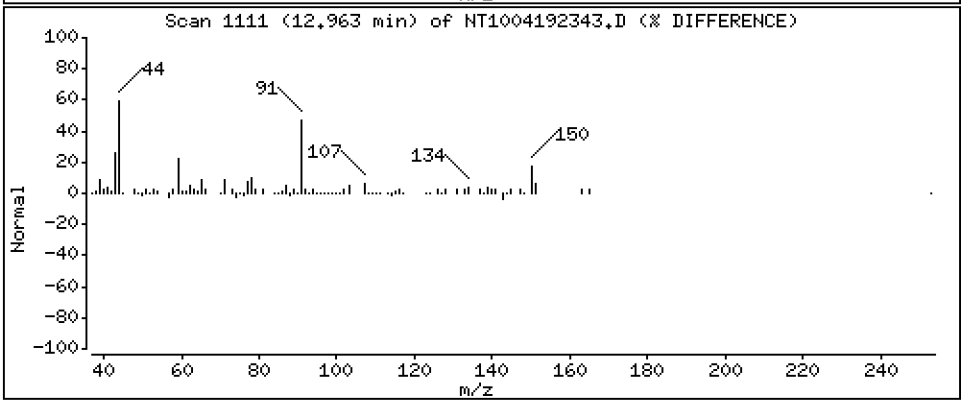












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

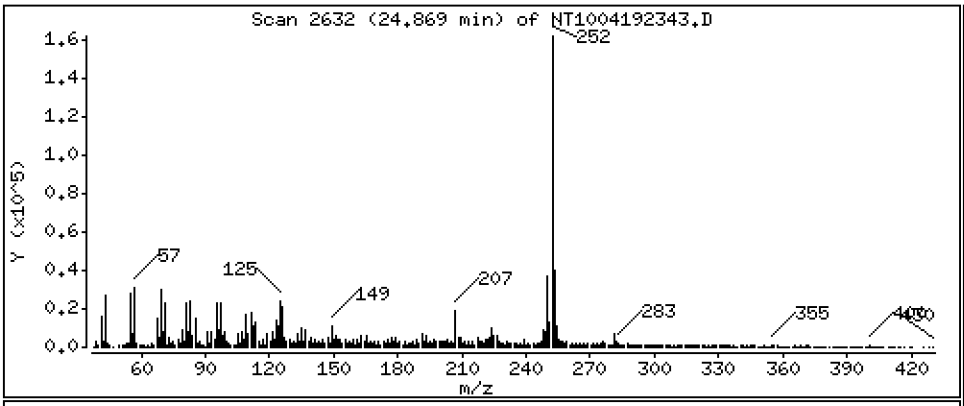
Operator: VTS

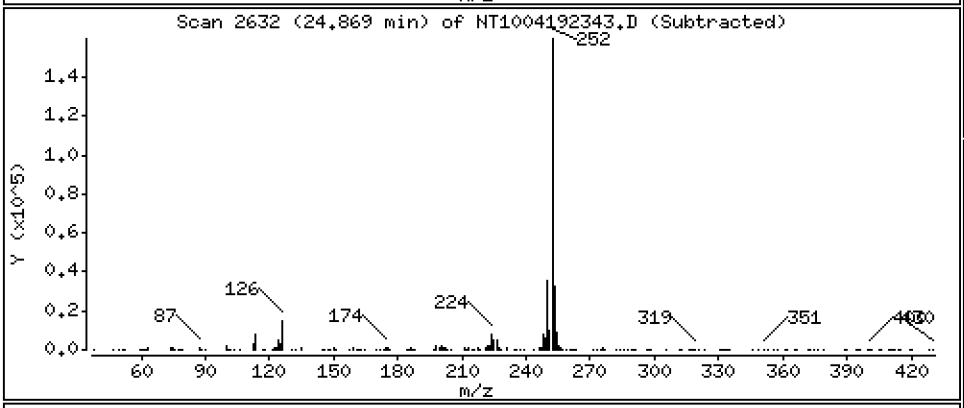
Column phase: ZB-5msi

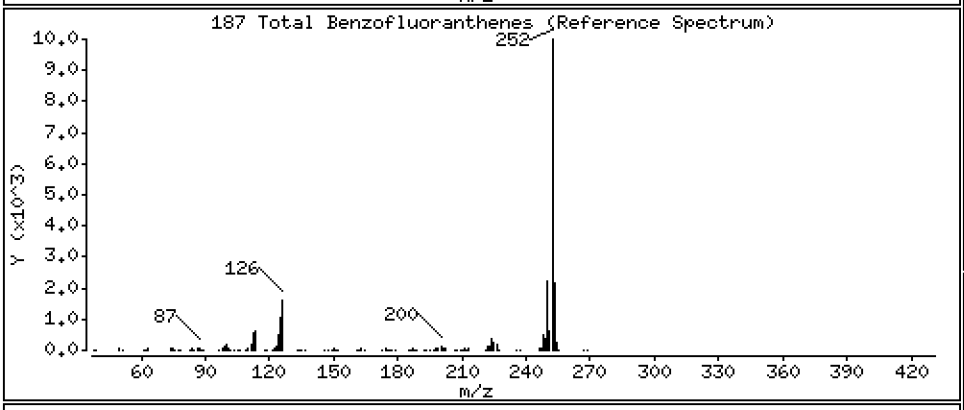
Column diameter: 0.25

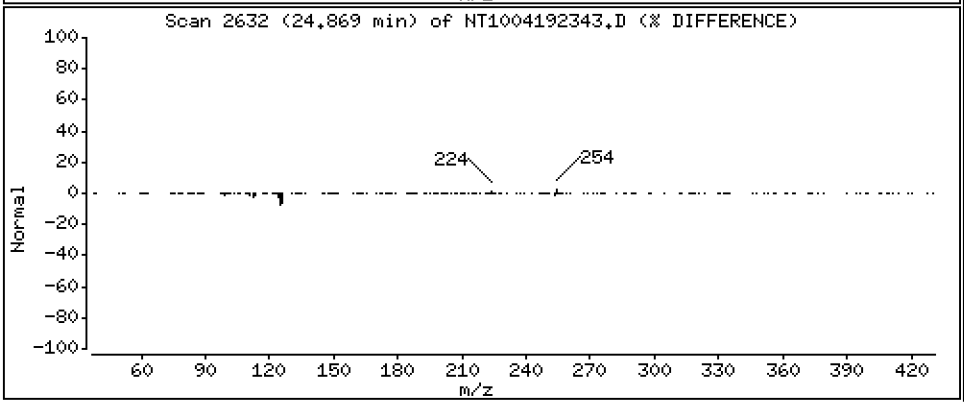
187 Total Benzofluoranthenes

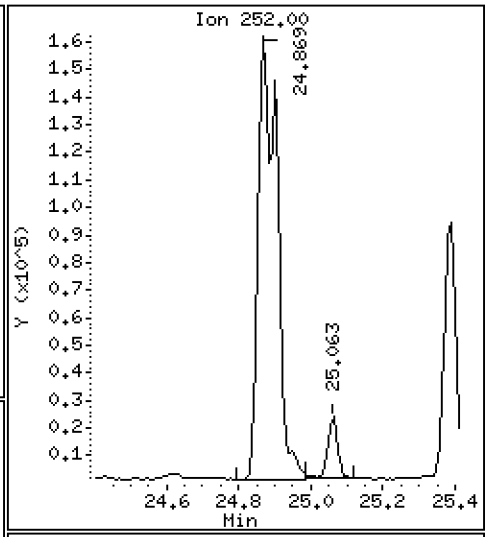
Concentration: 3.011 ug/mL

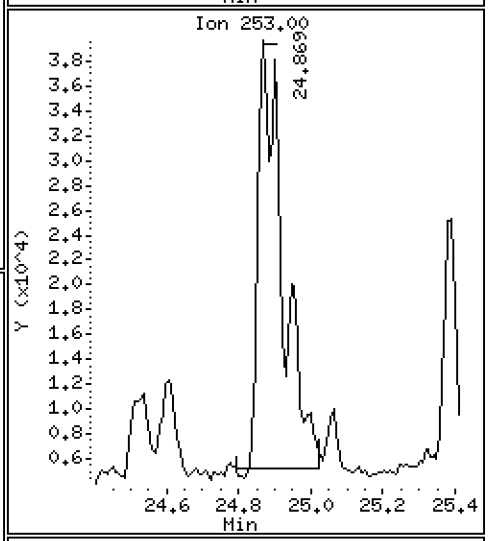


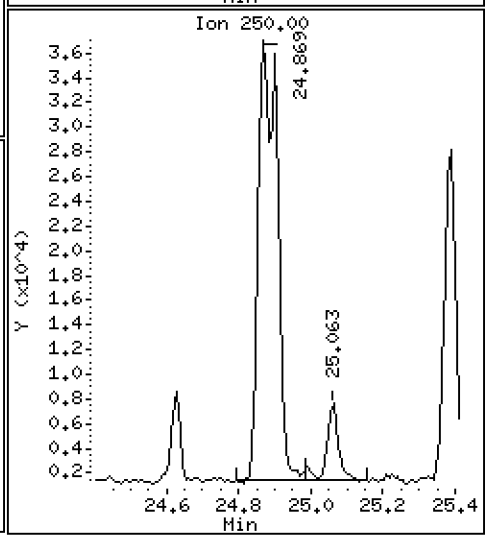












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230419B.b\NT1004192343.D
Lab Smp Id: 23C0752-03
Inj Date : 20-APR-2023 14:02
Operator : VTS Inst ID: nt10.i
Smp Info : 23C0752-03
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Meth Date : 21-Apr-2023 11:46 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.620	6.612	(0.750)	203522	4.71898	4.719
$	2 Phenol-d5	99	8.219	8.219	(0.931)	260697	4.60774	4.608
	3 Phenol	94	8.242	8.235	(0.933)	6585	0.11200	0.1120
$	5 2-Chlorophenol-d4	132	8.474	8.474	(0.960)	274867	5.68922	5.689
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	8.830	8.830	(1.000)	142615	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	9.187	9.187	(1.040)	110961	3.19803	3.198
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	9.110	9.110	(1.032)	8778	0.31809	0.3181
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	9.358	9.343	(1.060)	904	0.02109	0.02109
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	9.630	9.622	(1.091)	3796	0.08406	0.08406
$	18 Nitrobenzene-d5	82	9.925	9.925	(0.878)	162271	3.10237	3.102
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	10.787	10.897	(0.954)	18134	0.69179	0.6918
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.307	11.307	(1.000)	518204	4.00000	
	28 Naphthalene	128	11.345	11.353	(1.003)	15808	0.11515	0.1152
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	12.745	12.746	(1.127)	8825	0.08908	0.08908
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.527	13.527	(0.907)	389888	3.24842	3.248
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	Compound Not Detected.					
	40	Acenaphthylene	152	14.595	14.603	(0.979)	15780	0.10420	0.1042
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	14.912	14.913	(1.000)	303418	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	14.974	14.982	(1.004)	10852	0.11600	0.1160
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	15.307	15.307	(1.026)	16647	0.12066	0.1207
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	15.894	15.902	(1.066)	13971	0.14446	0.1445
	49	Fluorene	166	16.018	16.018	(1.074)	14934	0.13759	0.1376
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	16.558	16.558	(1.110)	83077	5.86423	5.864
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	17.949	17.949	(1.000)	521078	4.00000	
	60	Phenanthrene	178	17.995	17.996	(1.003)	100181	0.70507	0.7051
	61	Anthracene	178	18.088	18.089	(1.008)	84714	0.62154	0.6215
	62	Carbazole	167	18.429	18.429	(1.027)	14238	0.11658	0.1166
	63	Di-n-butylphthalate	149	19.264	19.265	(1.073)	6760	0.04116	0.04116
	64	Fluoranthene	202	20.409	20.402	(0.885)	459777	2.19855	2.199
	65	Pyrene	202	20.835	20.827	(0.904)	434239	2.02416	2.024
$	66	Terphenyl-d14	244	21.137	21.137	(0.917)	480391	2.98183	2.982
	67	Butylbenzylphthalate	149	Compound Not Detected.					
	68	Benzo(a)anthracene	228	23.018	23.019	(0.999)	220832	1.20210	1.202
*	69	Chrysene-d12	240	23.049	23.042	(1.000)	520455	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.088	23.088	(1.002)	310276	1.72879	1.729
	72	bis(2-Ethylhexyl)phthalate	149	23.134	23.135	(0.959)	77188	0.65255	0.6526
*	134	Di-n-octylphthalate-d4	153	24.125	24.126	(1.000)	808525	4.00000	
	73	Di-n-octylphthalate	149	Compound Not Detected.					
	74	Benzo(b)fluoranthene	252	24.869	24.861	(0.972)	327088	1.62095	1.621
	75	Benzo(k)fluoranthene	252	24.900	24.908	(0.973)	270087	1.31814	1.318
	76	Benzo(a)pyrene	252	25.488	25.481	(0.996)	228157	1.26466	1.265
*	77	Perylene-d12	264	25.596	25.589	(1.000)	622513	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.108	28.092	(1.098)	140060	0.61022	0.6102
	79	Dibenzo(a,h)anthracene	278	28.115	28.116	(1.098)	39024	0.20479	0.2048
	80	Benzo(g,h,i)perylene	276	28.846	28.822	(1.127)	128831	0.64858	0.6486
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	4.496	4.426	(0.509)	2290	0.05419	0.05419
	105	1-methylnaphthalene	142	12.962	12.962	(1.146)	6708	0.07390	0.07390
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	24.869	24.908	(0.972)	586654	3.01109	3.011
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192343.D
Lab Smp Id: 23C0752-03
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Misc Info:

Calibration Date: 20-APR-2023
Calibration Time: 07:41
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	129725	64863	259450	142615	9.94
27 Naphthalene-d8	475671	237836	951342	518204	8.94
42 Acenaphthene-d10	277889	138945	555778	303418	9.19
59 Phenanthrene-d10	485346	242673	970692	521078	7.36
69 Chrysene-d12	453075	226538	906150	520455	14.87
134 Di-n-octylphthala	697265	348633	1394530	808525	15.96
77 Perylene-d12	538138	269069	1076276	622513	15.68

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.83	8.33	9.33	8.83	-0.00
27 Naphthalene-d8	11.31	10.81	11.81	11.31	-0.00
42 Acenaphthene-d10	14.91	14.41	15.41	14.91	-0.00
59 Phenanthrene-d10	17.95	17.45	18.45	17.95	-0.00
69 Chrysene-d12	23.04	22.54	23.54	23.05	0.03
134 Di-n-octylphthala	24.13	23.63	24.63	24.13	-0.00
77 Perylene-d12	25.59	25.09	26.09	25.60	0.03

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

REVIEW SUMMARY FOR FILE - NT1004192343.D

Lab ID: 23C0752-03
nt10.i, 20230419B.b\ABN.m,   20-APR-2023 14:02

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.954	0.964	-0.0098	Benzoic acid
0.509	0.501	0.0079	Pyridine

RRT check based on Ccal File: NT1004192333.D

On Column LOD for nt10.i, 20230419B.b\ABN.m, ICAL.sub = 0.0000

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

LDW23-SS1810

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

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

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-04 A	SDG:	23C0752
Sampled:	03/30/23 10:36	Prepared:	04/03/23 11:31	File ID:	NT1004192344.D
% Solids:	52.71	Preparation:	EPA 3546 (Microwave)	Analyzed:	04/20/23 14:40
Batch:	BLD0008	Sequence:	SLD0293	Initial/Final:	18.98 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00046
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
108-95-2	Phenol	1	11.6	J	4.4	20.0
106-44-5	4-Methylphenol	1	20.0	U	7.4	20.0
91-20-3	Naphthalene	1	10.8	J	4.2	20.0
91-57-6	2-Methylnaphthalene	1	8.9	J	4.5	20.0
208-96-8	Acenaphthylene	1	8.7	J	6.2	20.0
131-11-3	Dimethylphthalate	1	8.9	J	4.4	20.0
83-32-9	Acenaphthene	1	8.7	J	5.2	20.0
132-64-9	Dibenzofuran	1	20.0	U	14.1	20.0
86-73-7	Fluorene	1	20.0	U	14.6	20.0
85-01-8	Phenanthrene	1	92.7		8.7	20.0
120-12-7	Anthracene	1	34.6		7.2	20.0
206-44-0	Fluoranthene	1	233	Q	6.1	20.0
129-00-0	Pyrene	1	242	Q	5.7	20.0
85-68-7	Butylbenzylphthalate	1	14.4	J	9.4	20.0
56-55-3	Benzo(a)anthracene	1	156		6.0	20.0
218-01-9	Chrysene	1	218		6.1	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	84.6		5.5	50.0
	Benzofluoranthenes, Total	1	432		10.0	40.0
50-32-8	Benzo(a)pyrene	1	185		4.2	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	99.0		14.6	20.0
53-70-3	Dibenzo(a,h)anthracene	1	34.5		17.2	20.0
191-24-2	Benzo(g,h,i)perylene	1	99.3	Q	13.6	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	749.67	430	57.3	27 - 120	
Phenol-d5	749.67	422	56.3	29 - 120	
2-Chlorophenol-d4	749.67	515	68.7	31 - 120	
1,2-Dichlorobenzene-d4	499.78	284	56.8	32 - 120	
Nitrobenzene-d5	499.78	286	57.2	30 - 120	
2-Fluorobiphenyl	499.78	305	61.0	35 - 120	

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1810

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

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

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-04 A	SDG:	23C0752
Sampled:	03/30/23 10:36	Prepared:	04/03/23 11:31	File ID:	NT1004192344.D
% Solids:	52.71	Preparation:	EPA 3546 (Microwave)	Analyzed:	04/20/23 14:40
Batch:	BLD0008	Sequence:	SLD0293	Initial/Final:	18.98 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00046
Cleanups:	GPC				

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2,4,6-Tribromophenol	749.67	571	76.2	24 - 134	
p-Terphenyl-d14	499.78	280	56.1	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192344.D

Date : 20-APR-2023 14:40

Client ID:

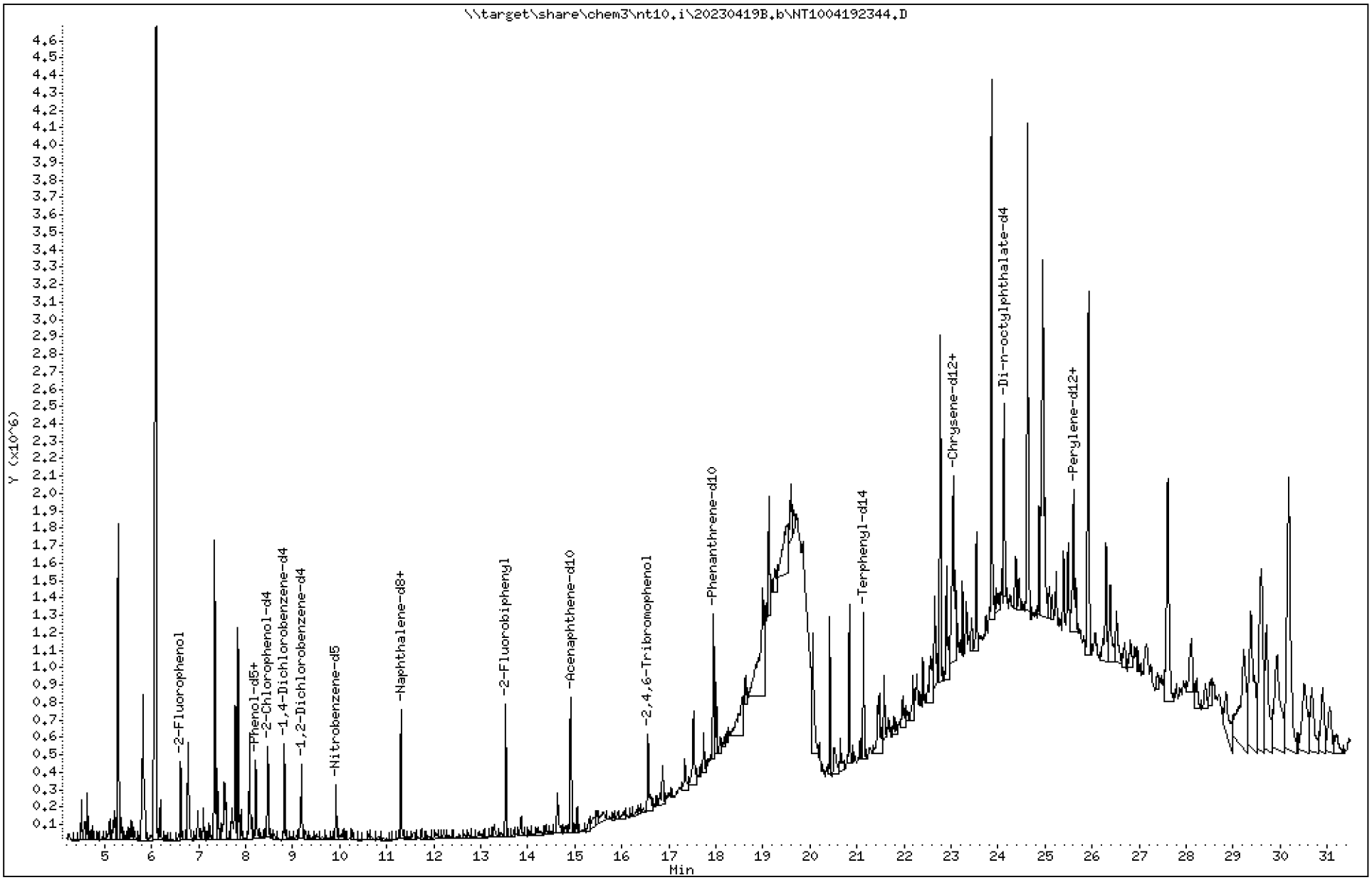
Sample Info: 23C0752-04

Column phase: ZB-5msi

Instrument: nt10.i

Operator: VTS

Column diameter: 0.25



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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

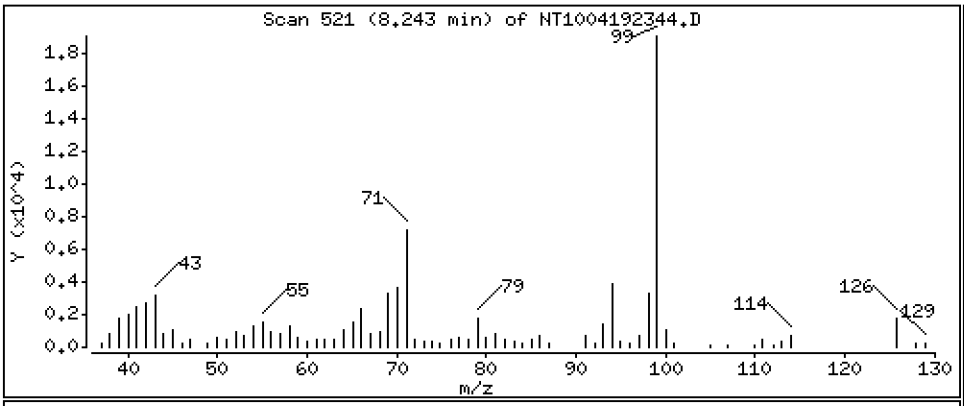
Operator: VTS

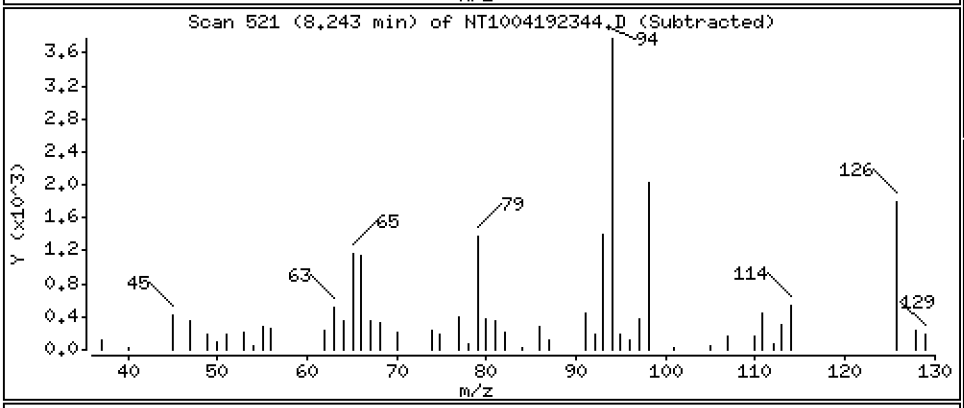
Column phase: ZB-5msi

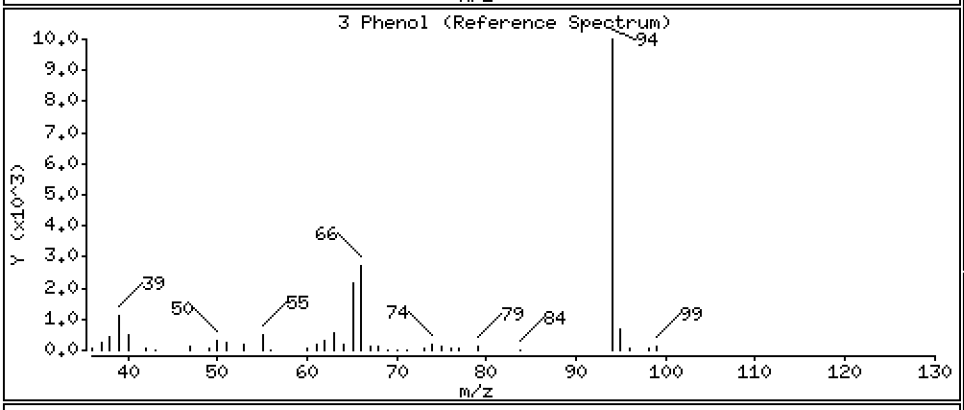
Column diameter: 0.25

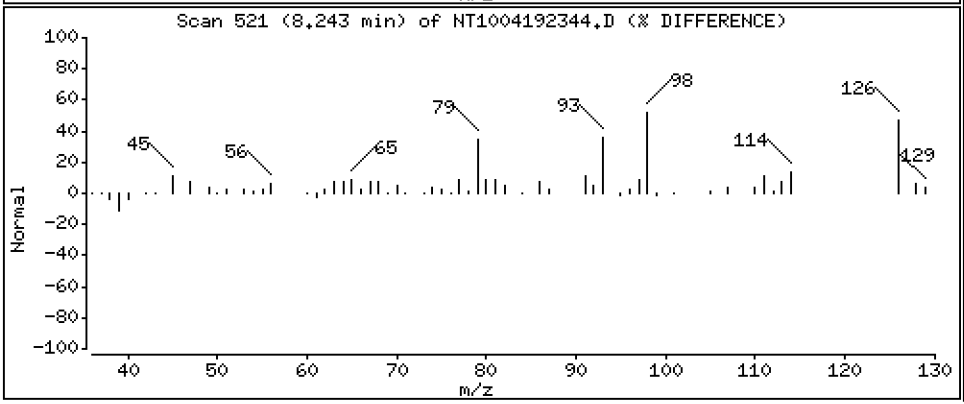
3 Phenol

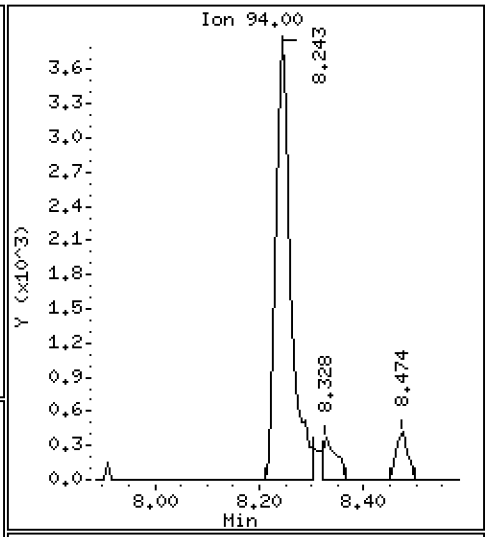
Concentration: 0.1162 ug/mL

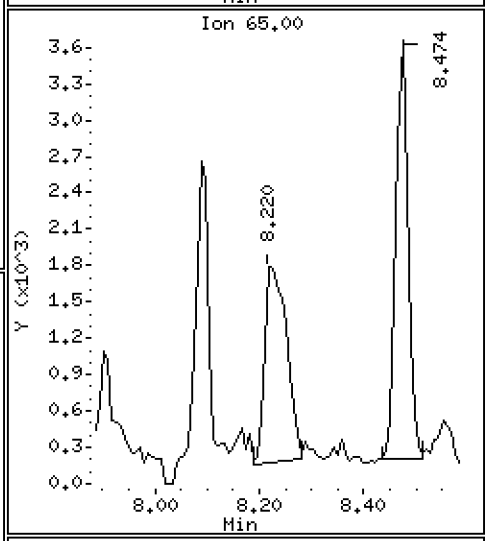


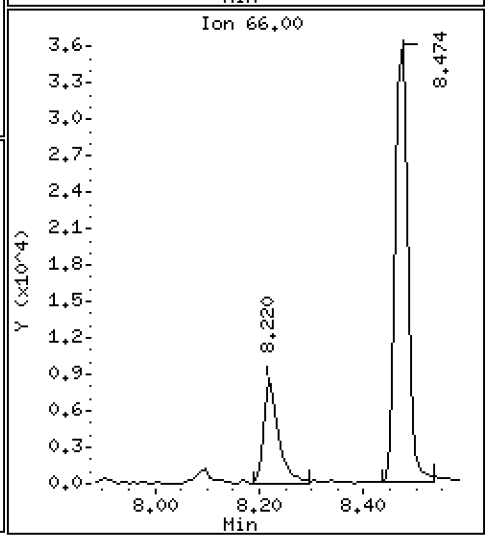












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

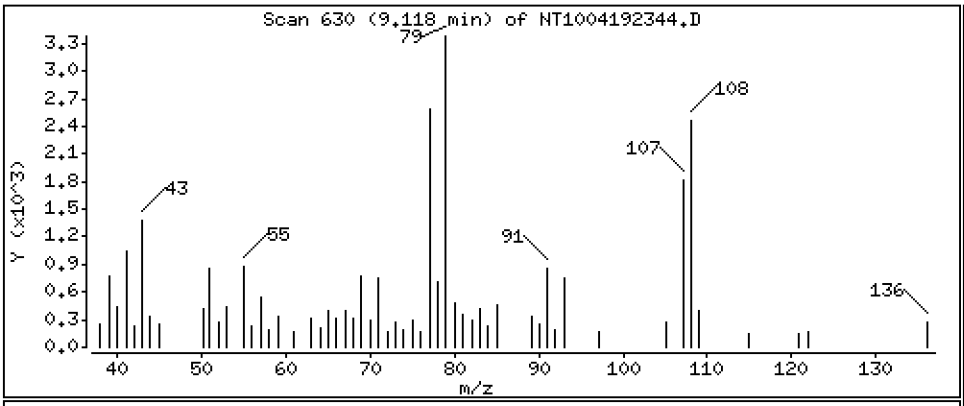
Operator: VTS

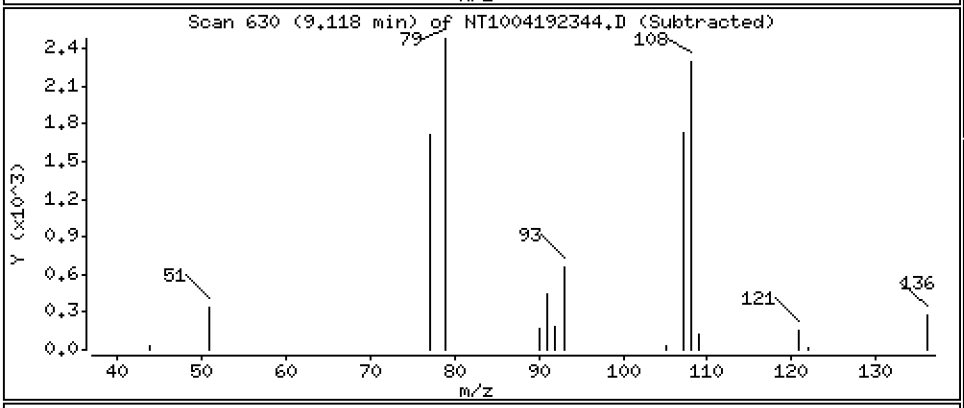
Column phase: ZB-5msi

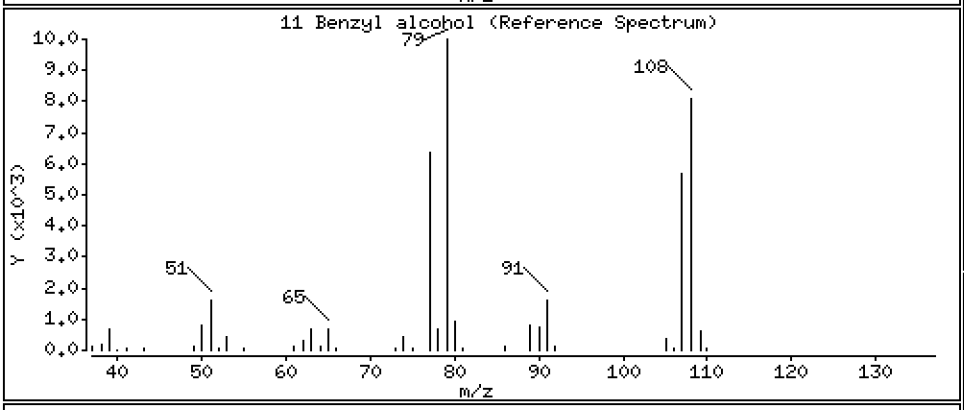
Column diameter: 0.25

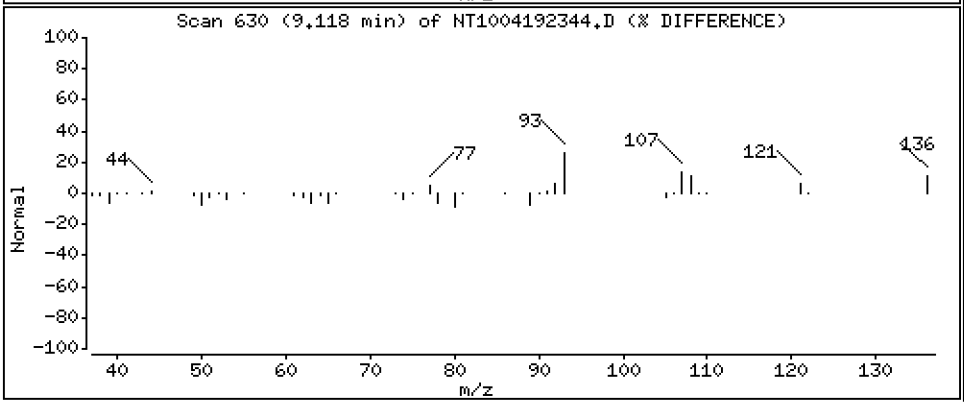
11 Benzyl alcohol

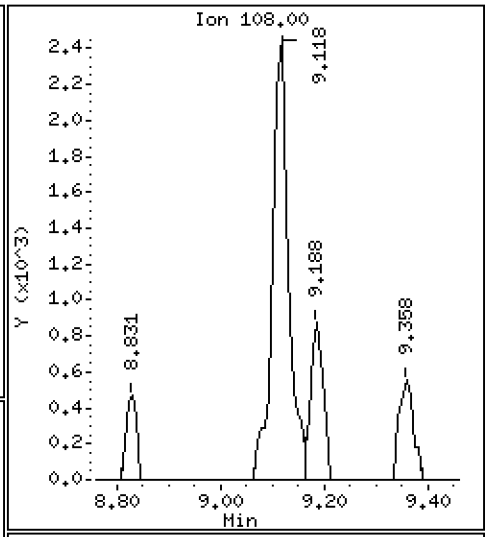
Concentration: 0.1639 ug/mL

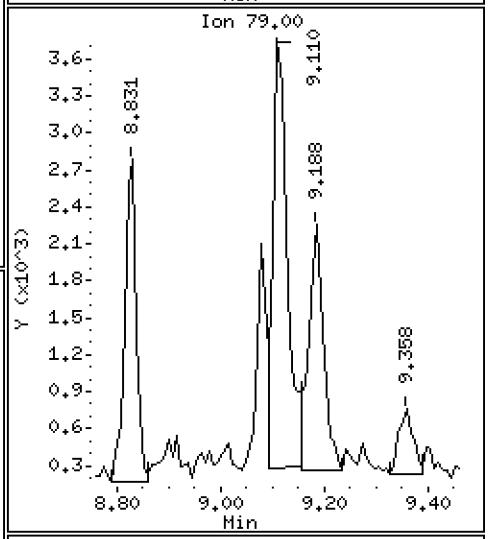


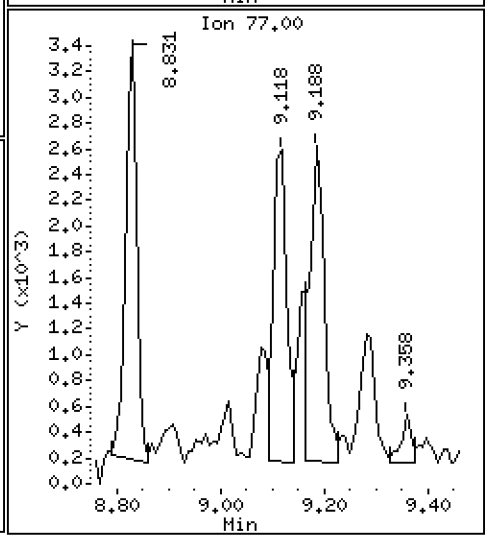












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

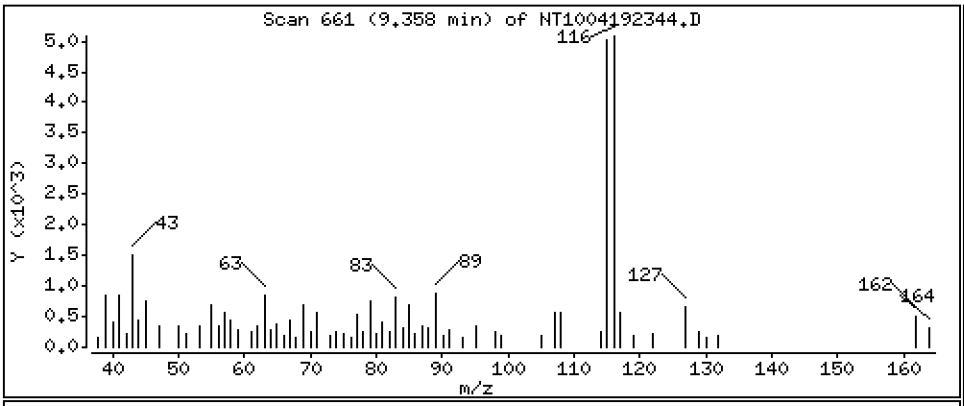
Operator: VTS

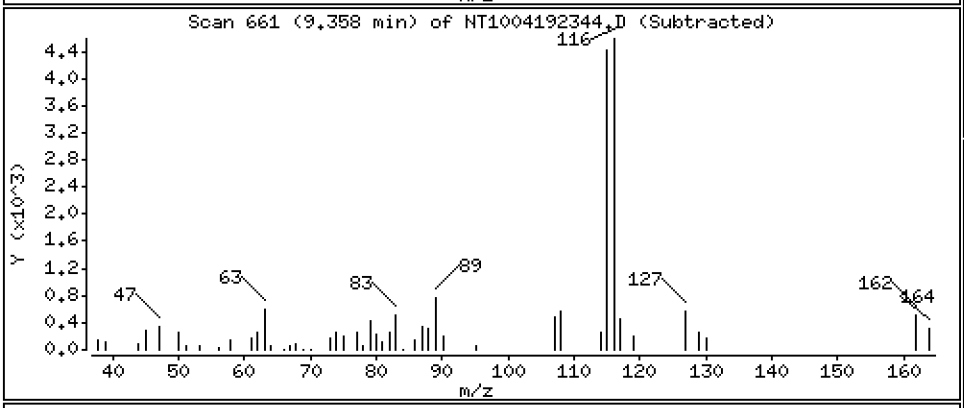
Column phase: ZB-5msi

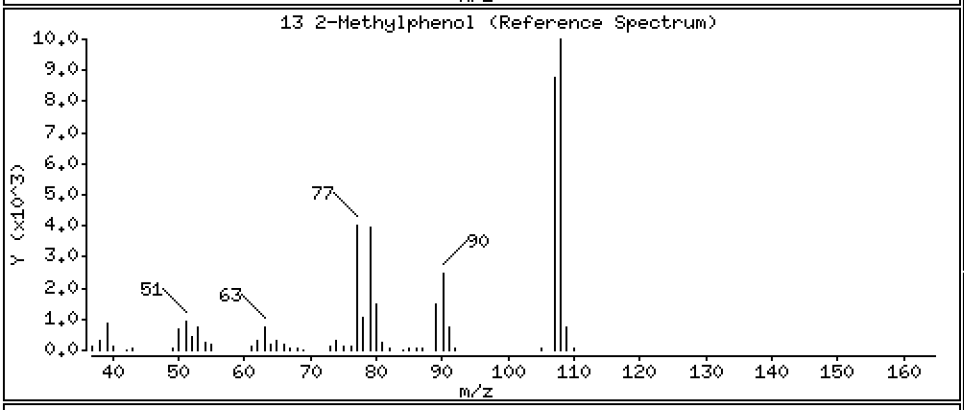
Column diameter: 0.25

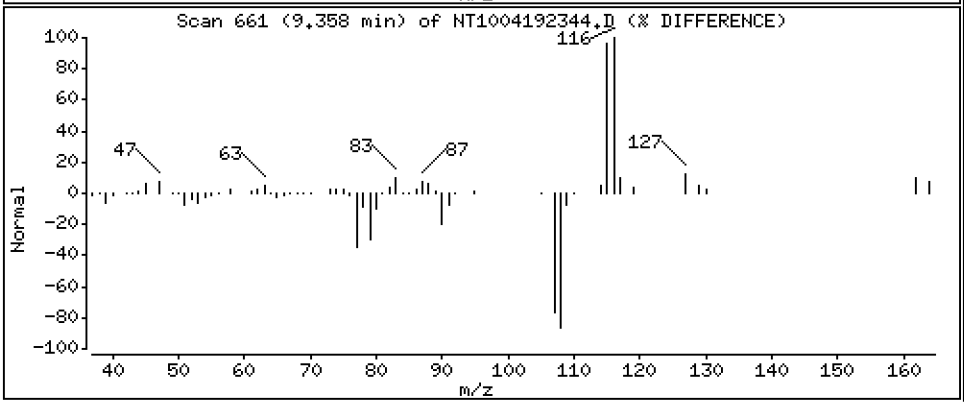
13 2-Methylphenol

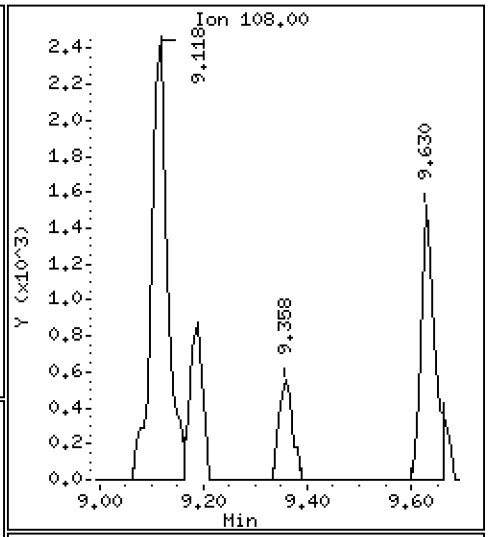
Concentration: 0.02123 ug/mL

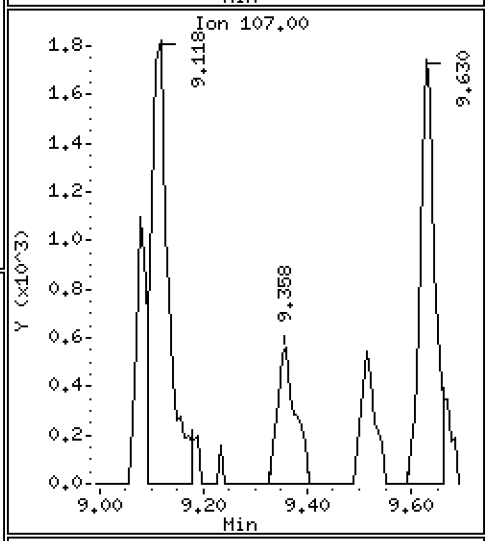


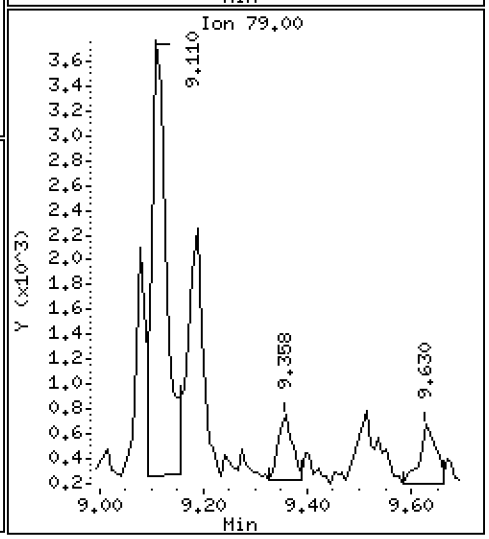












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192344.D

Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

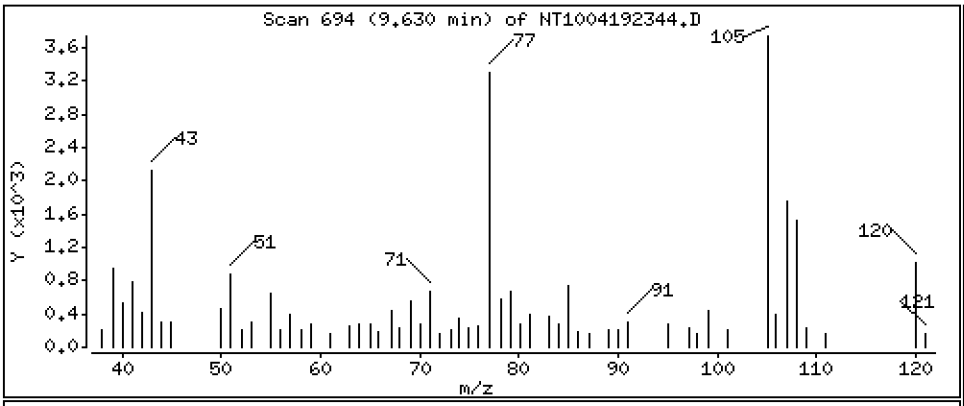
Operator: VTS

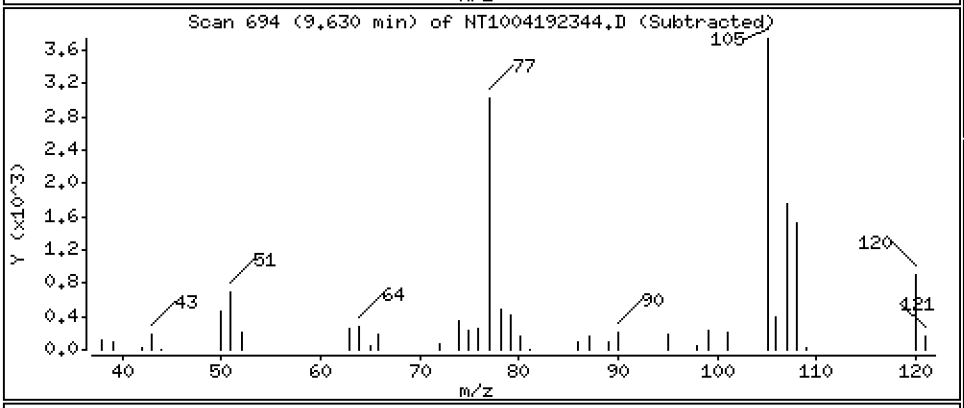
Column phase: ZB-5msi

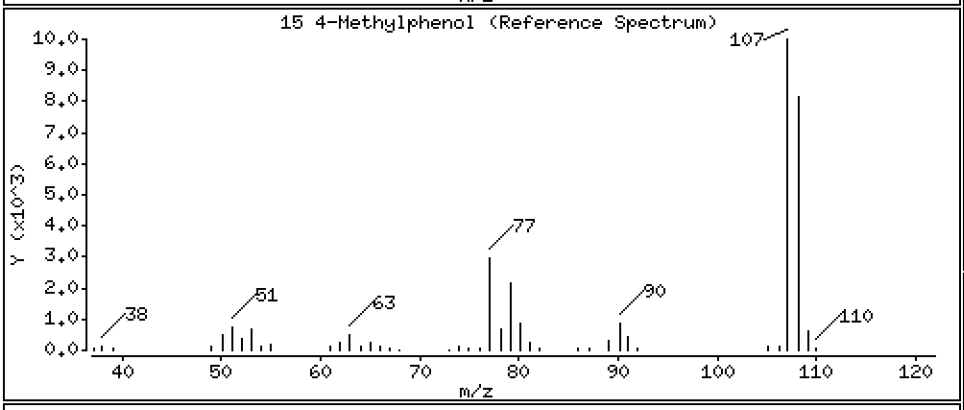
Column diameter: 0.25

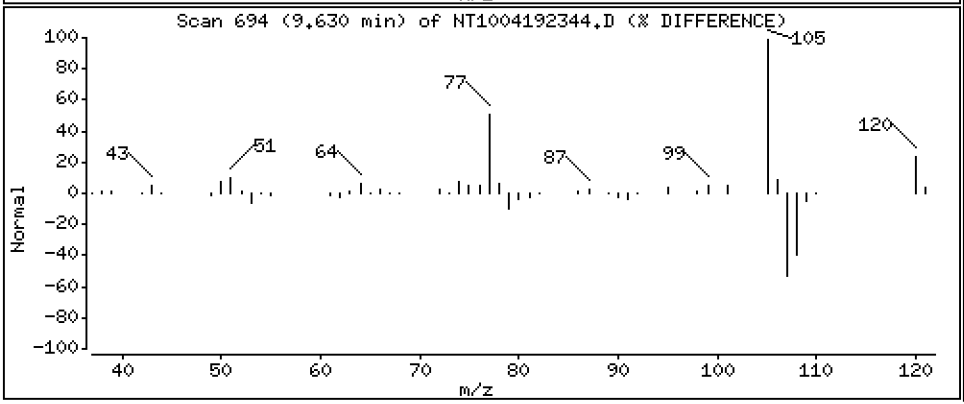
15 4-Methylphenol

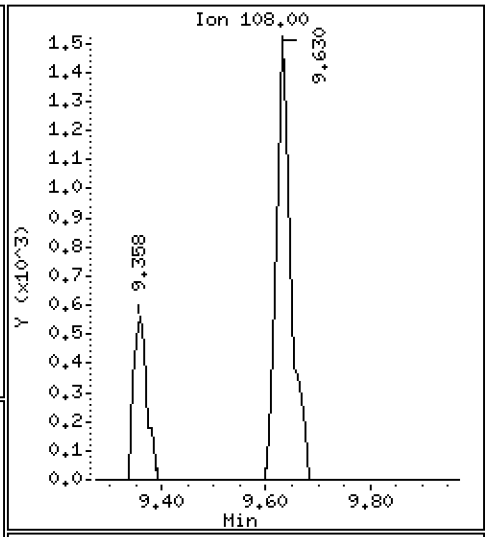
Concentration: 0.05837 ug/mL

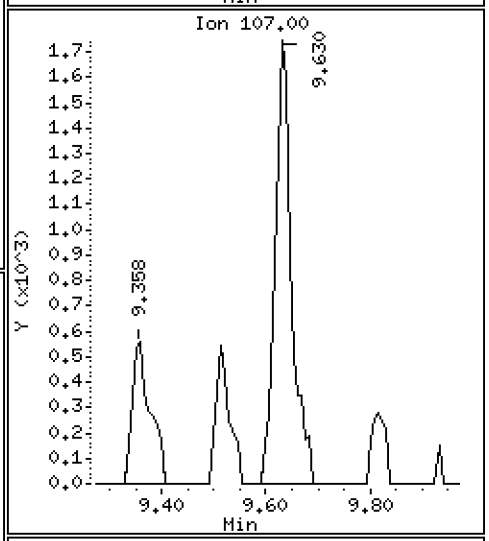


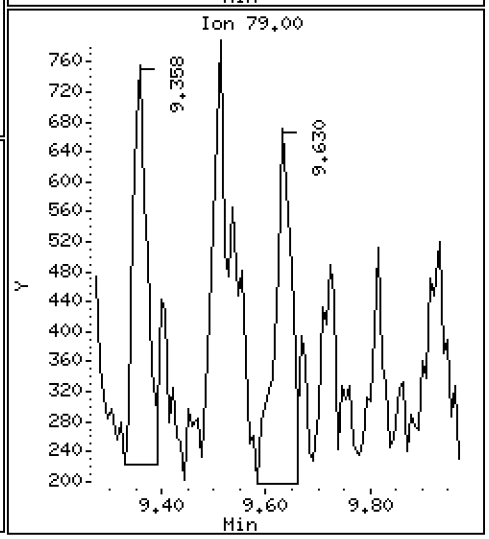












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

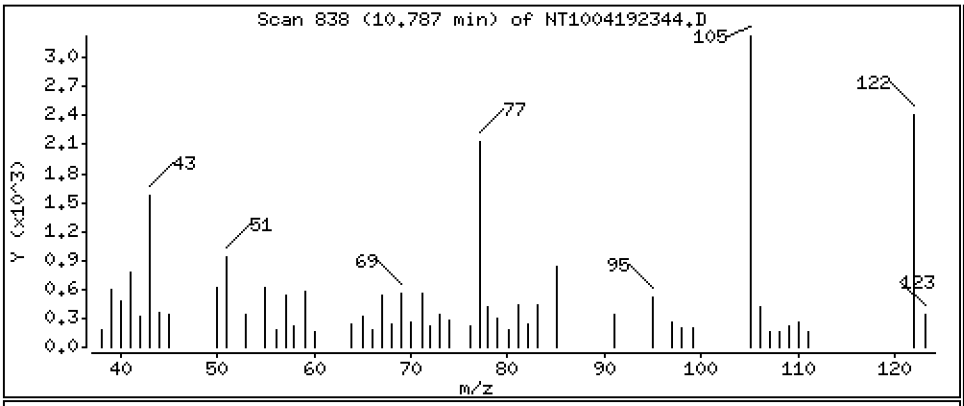
Operator: VTS

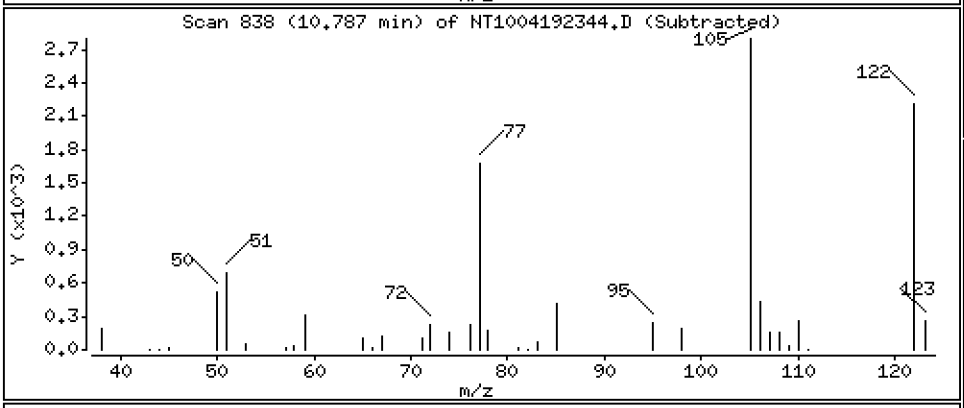
Column phase: ZB-5msi

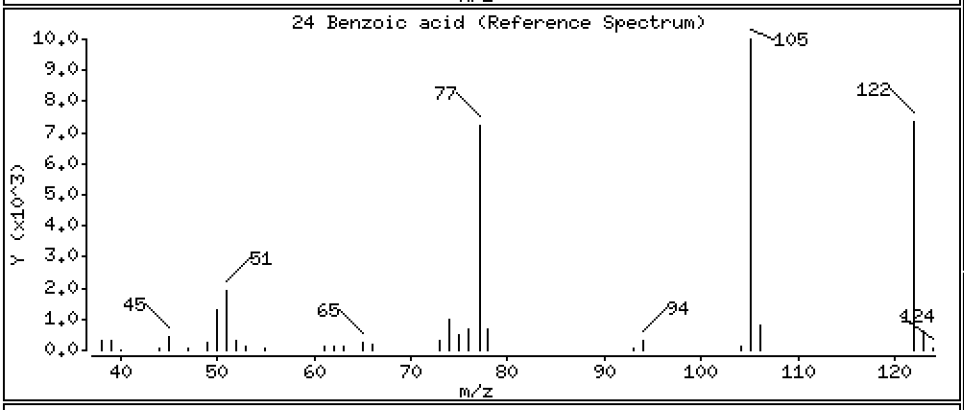
Column diameter: 0.25

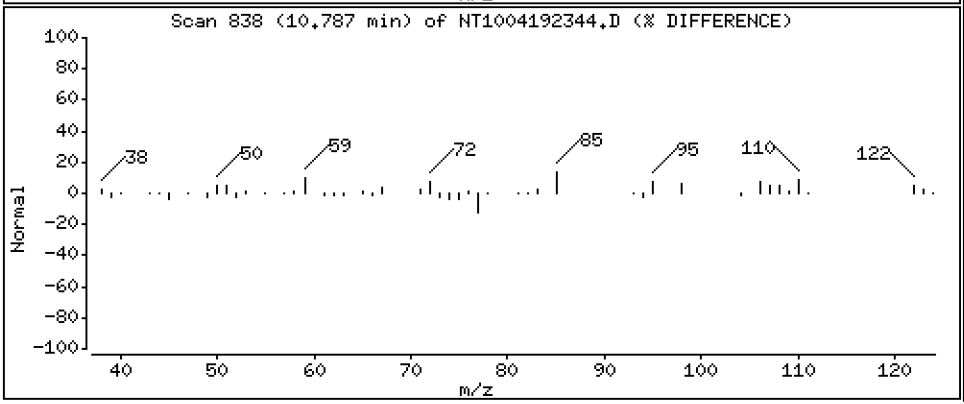
24 Benzoic acid

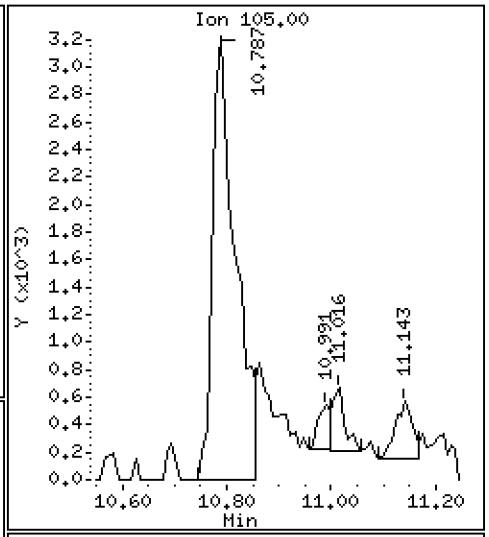
Concentration: 0.3405 ug/mL

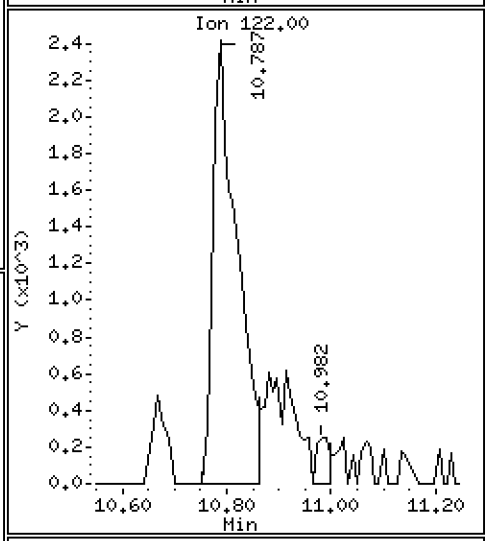


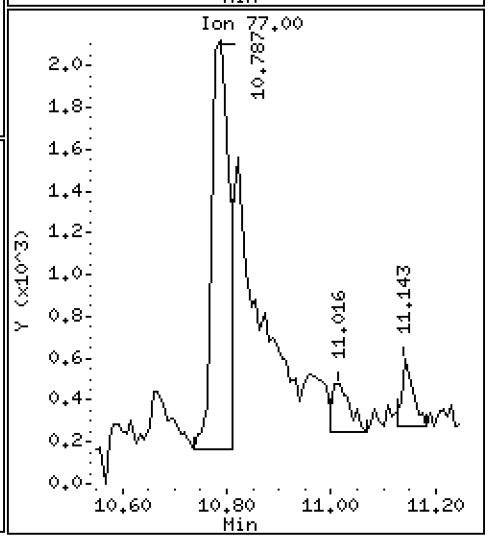












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

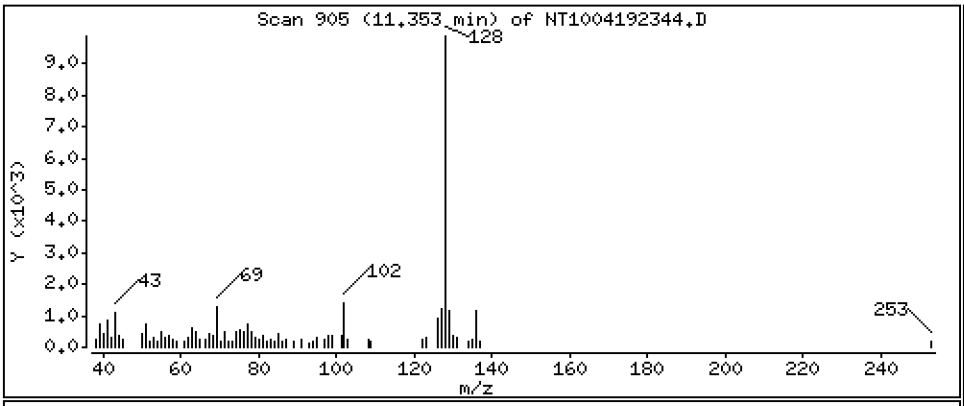
Operator: VTS

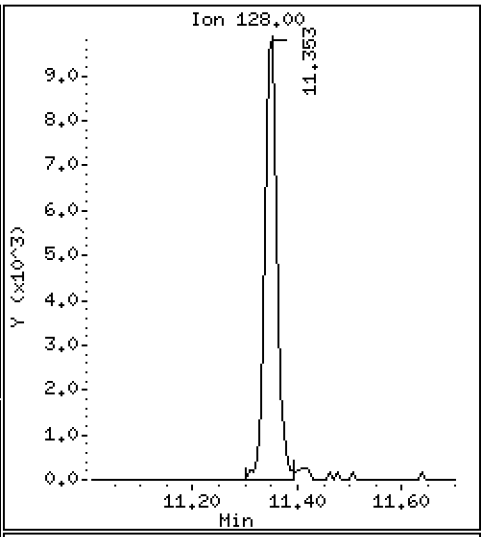
Column phase: ZB-5msi

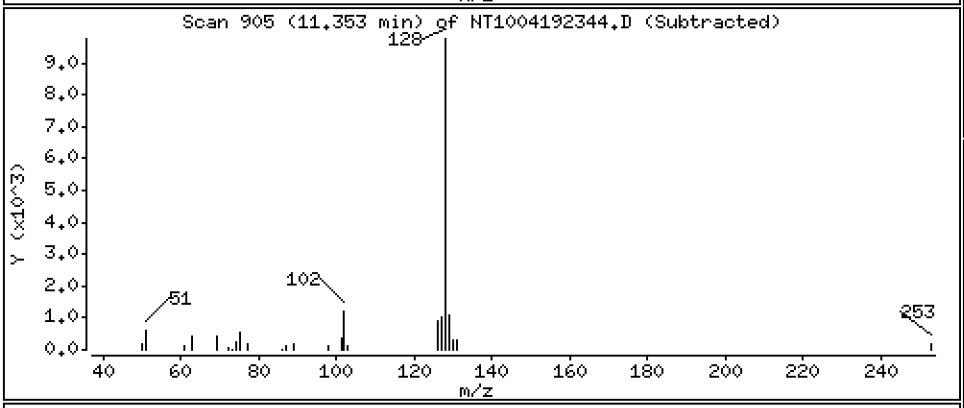
Column diameter: 0.25

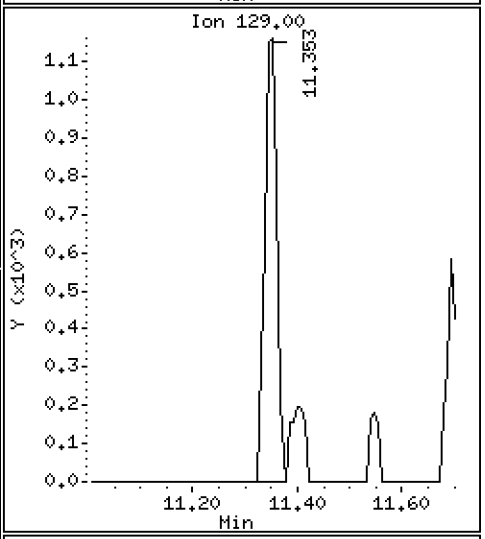
28 Naphthalene

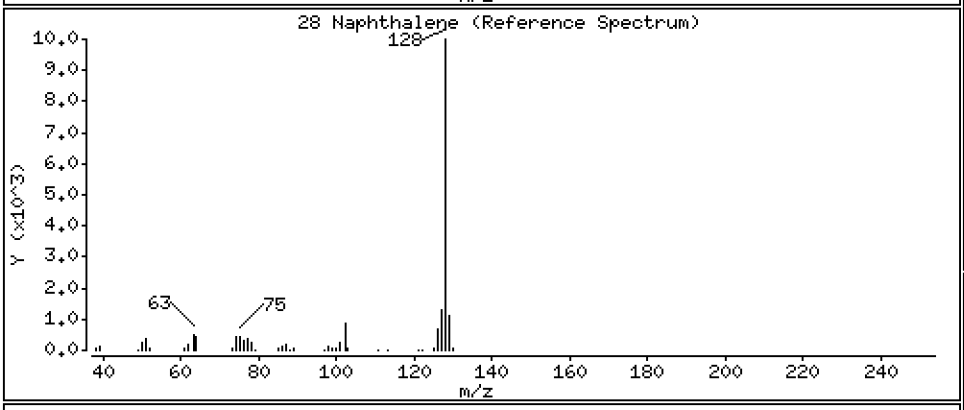
Concentration: 0.1085 ug/mL

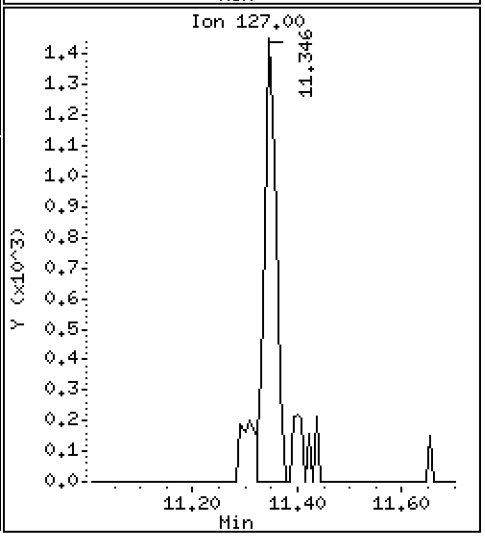


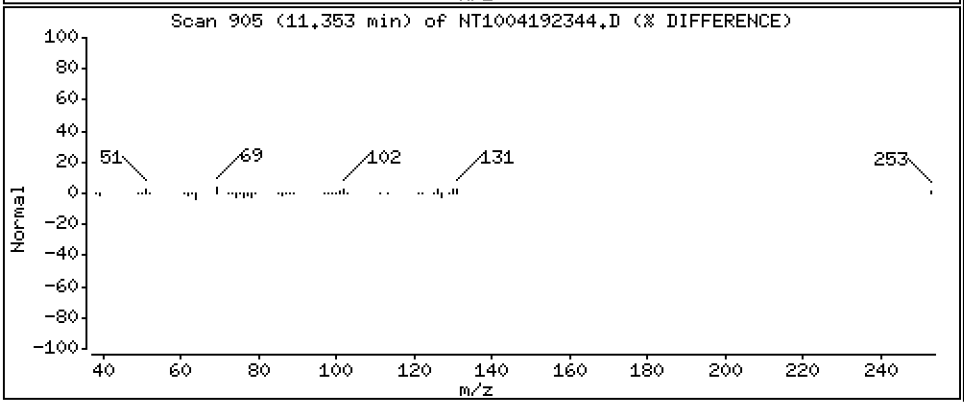












Date : 20-APR-2023 14:40

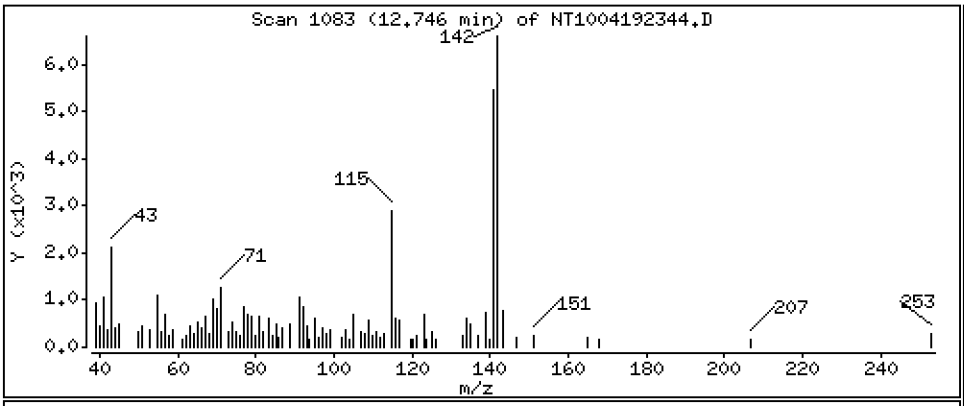
Client ID: Instrument: nt10.i

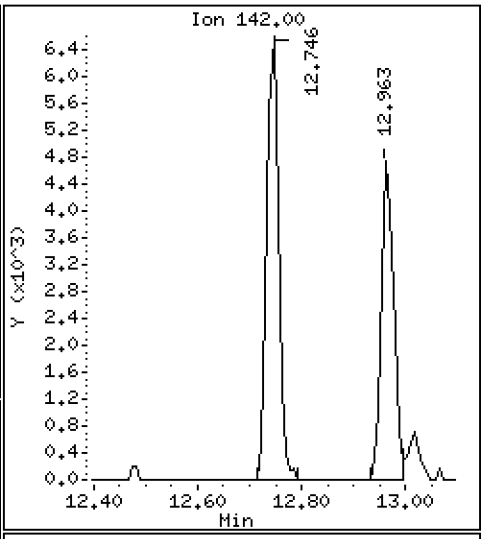
Sample Info: 23C0752-04

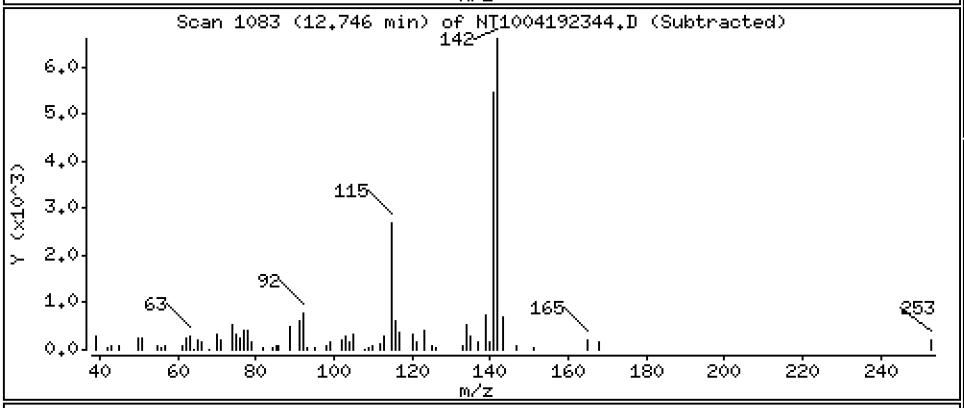
Operator: VTS

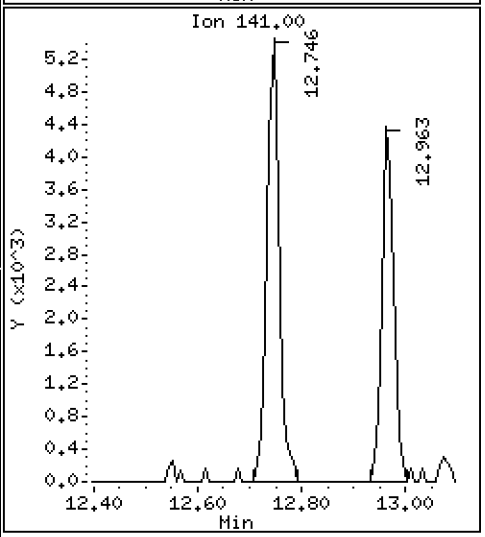
Column phase: ZB-5msi Column diameter: 0.25

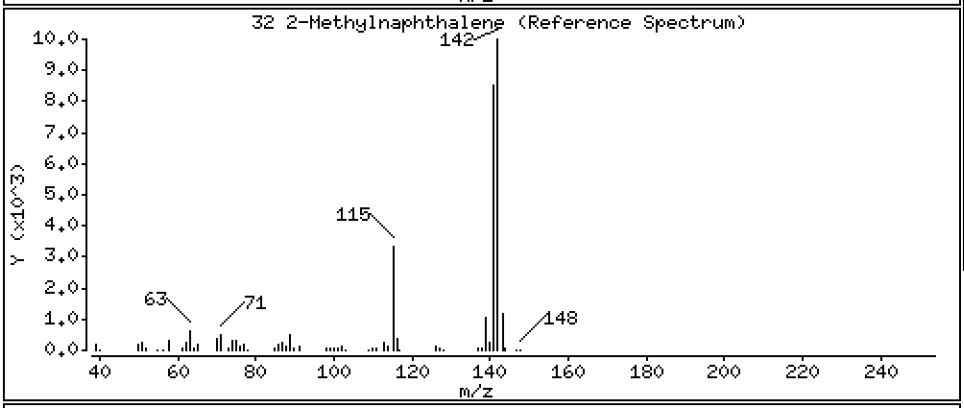
32 2-Methylnaphthalene Concentration: 0.08920 ug/mL

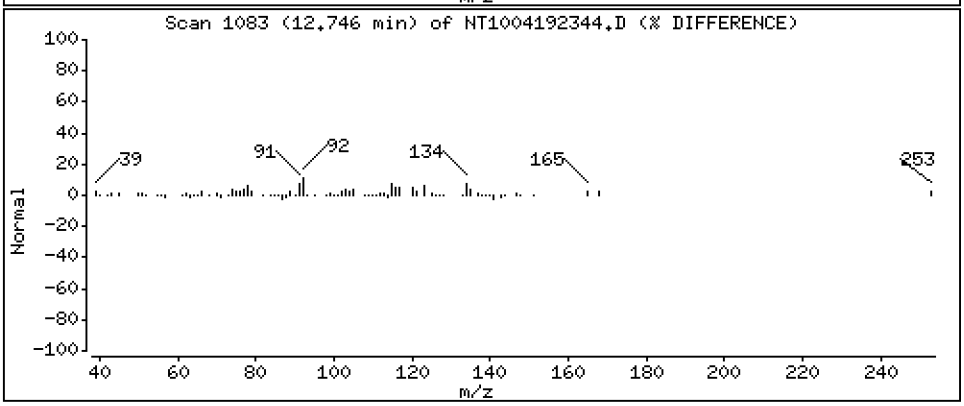












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

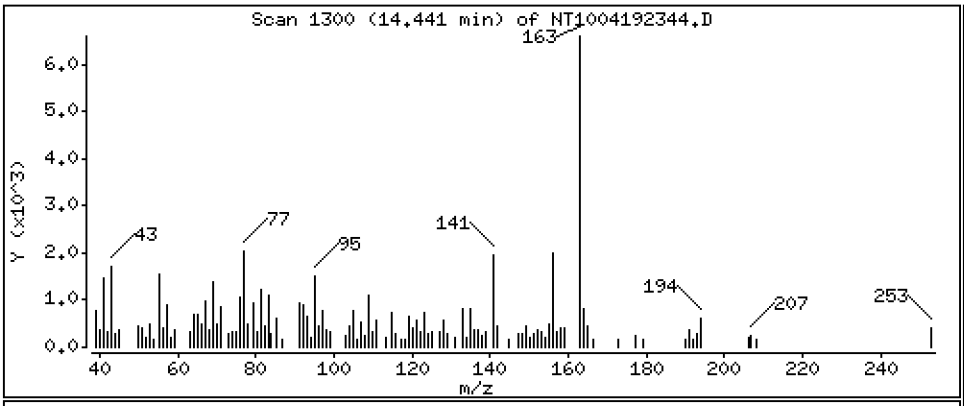
Operator: VTS

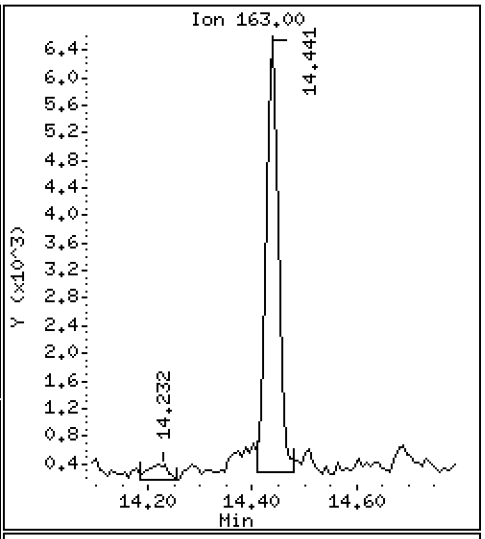
Column phase: ZB-5msi

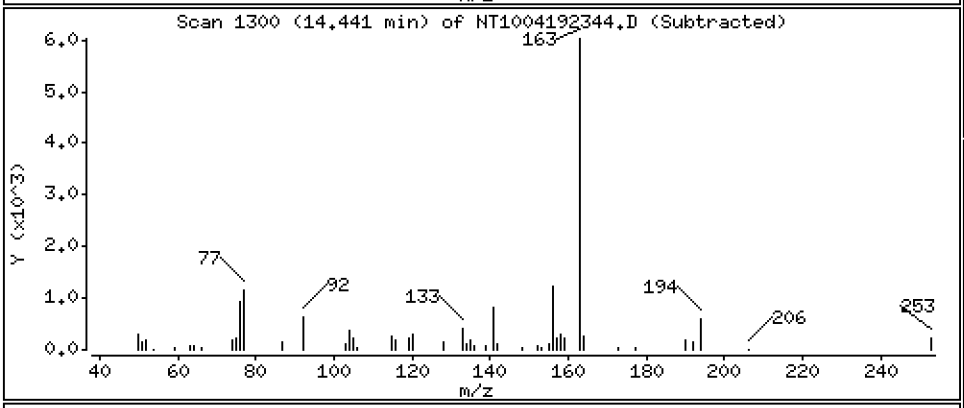
Column diameter: 0.25

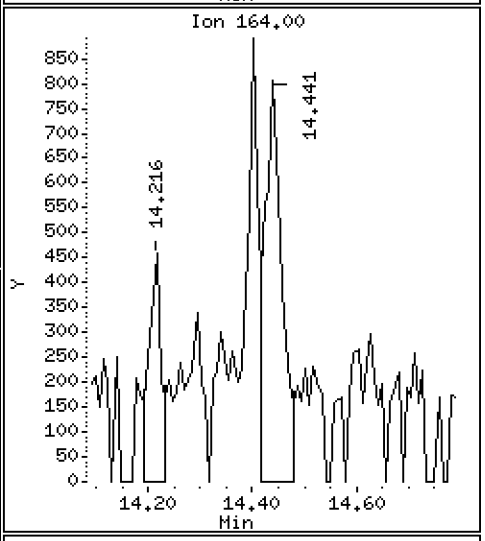
39 Dimethylphthalate

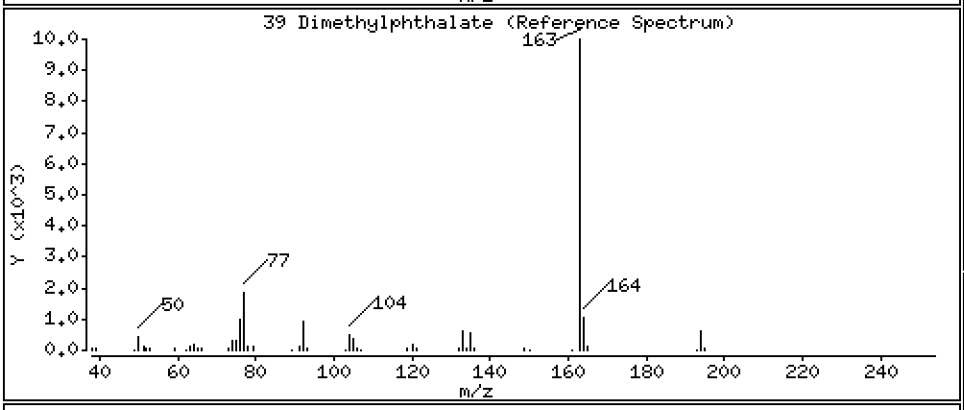
Concentration: 0.08904 ug/mL

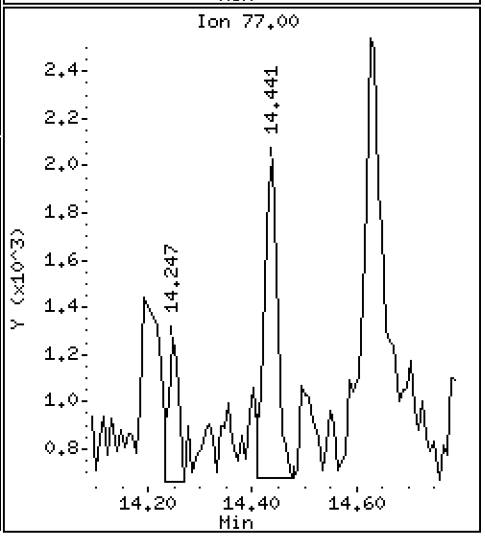


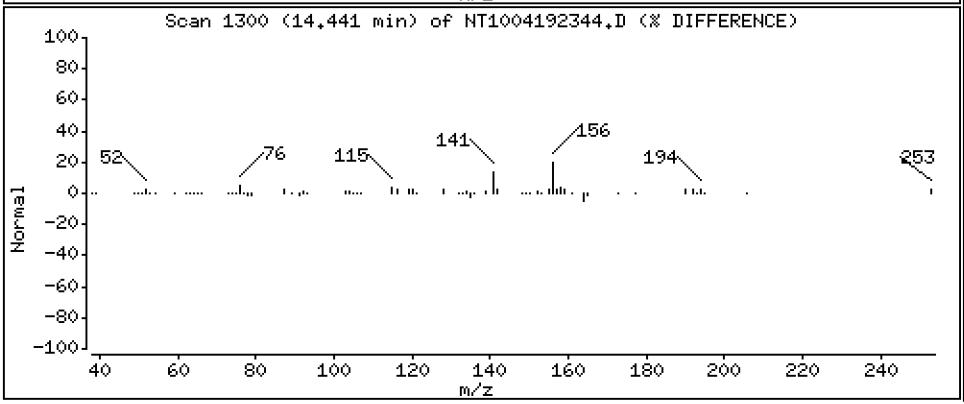












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

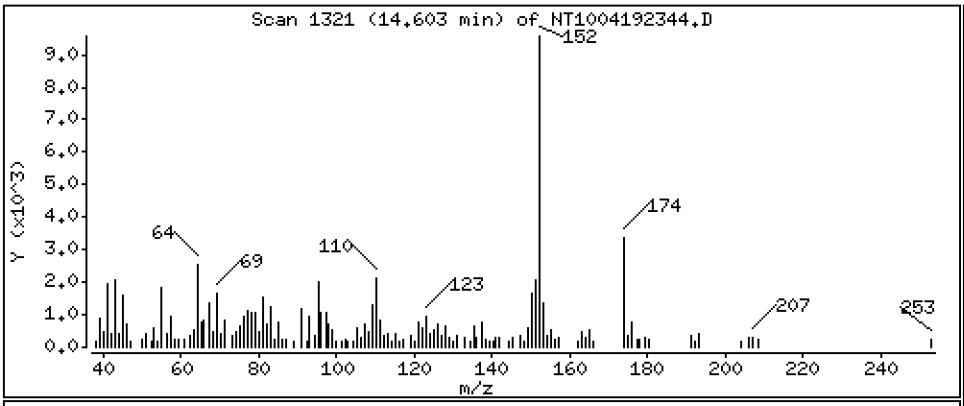
Operator: VTS

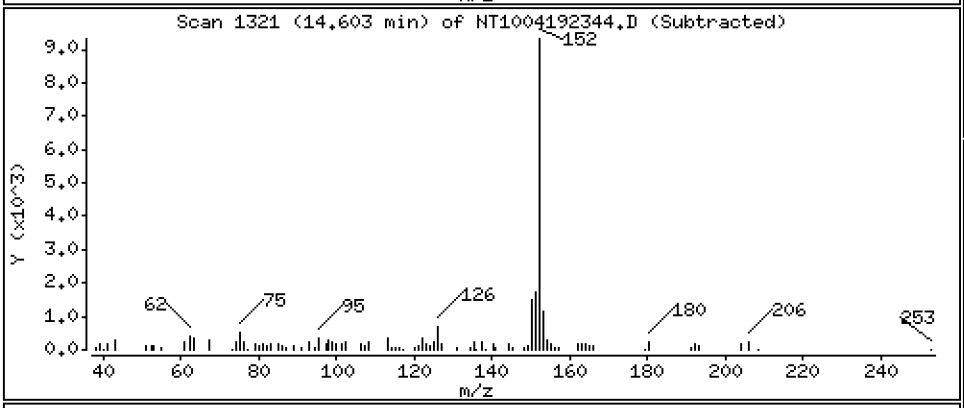
Column phase: ZB-5msi

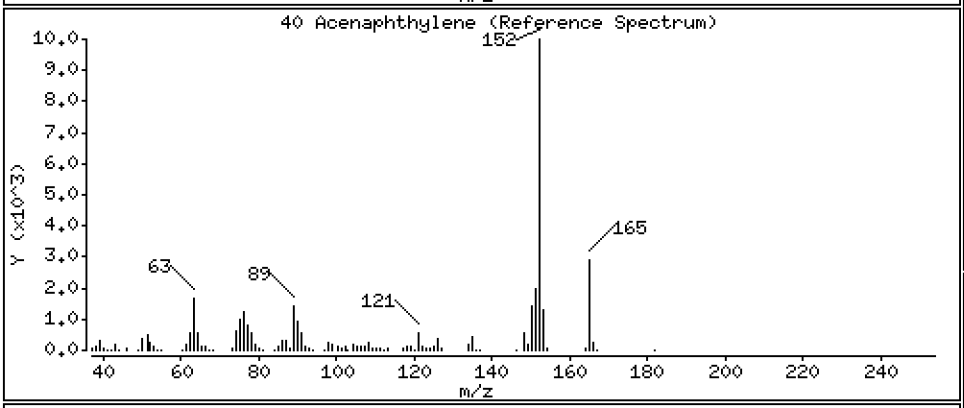
Column diameter: 0.25

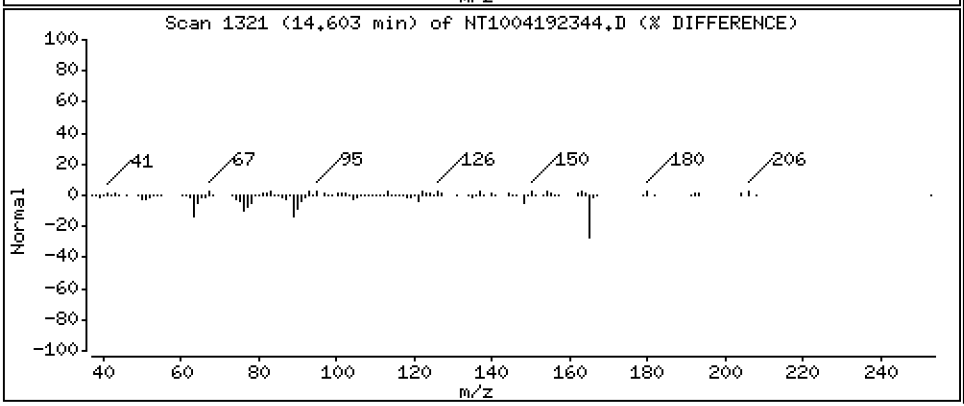
40 Acenaphthylene

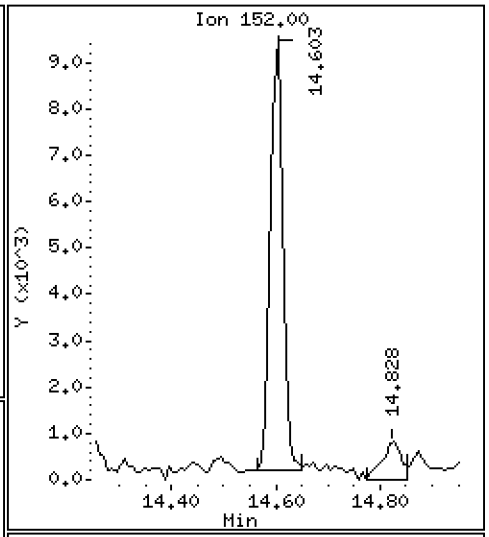
Concentration: 0.08707 ug/mL

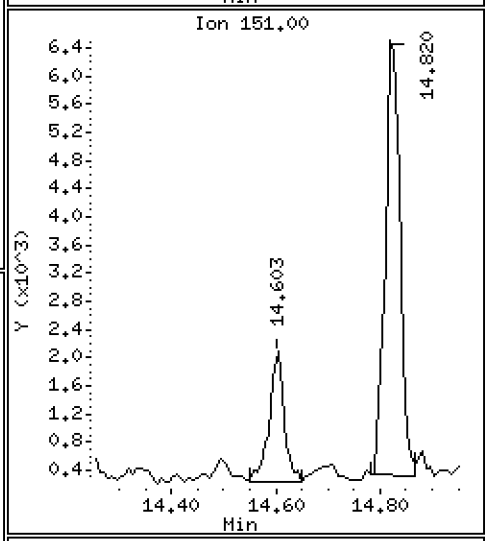


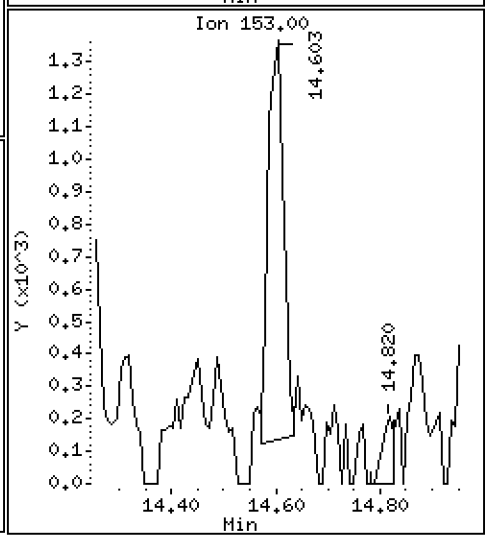












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

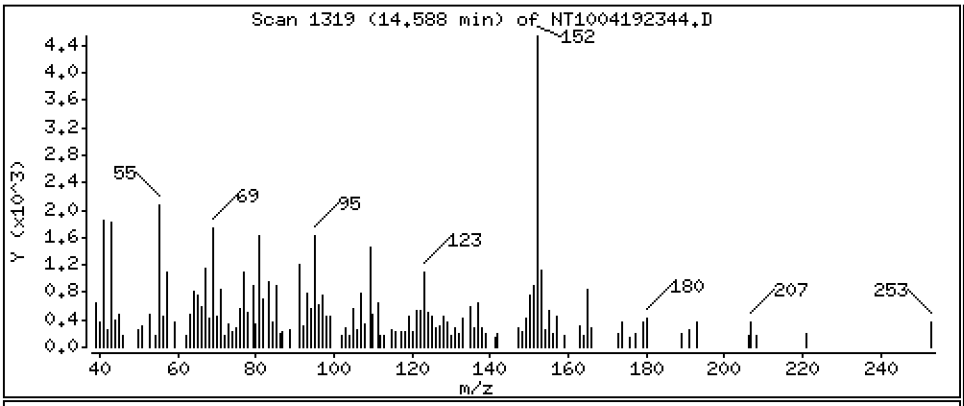
Operator: VTS

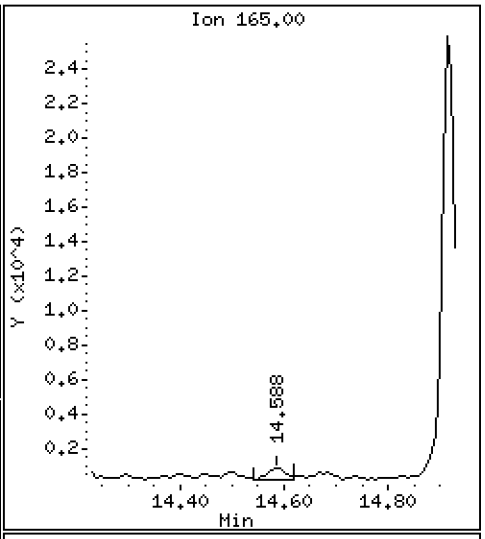
Column phase: ZB-5msi

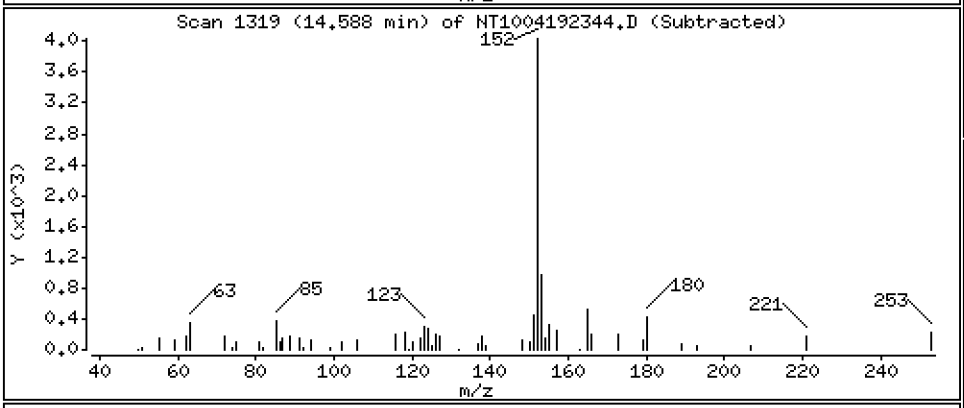
Column diameter: 0.25

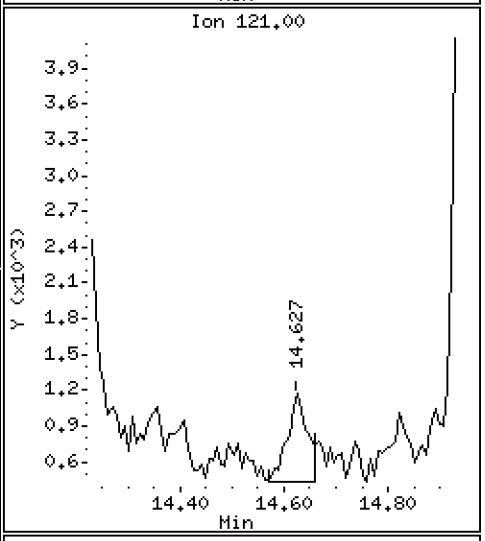
41 2,6-Dinitrotoluene

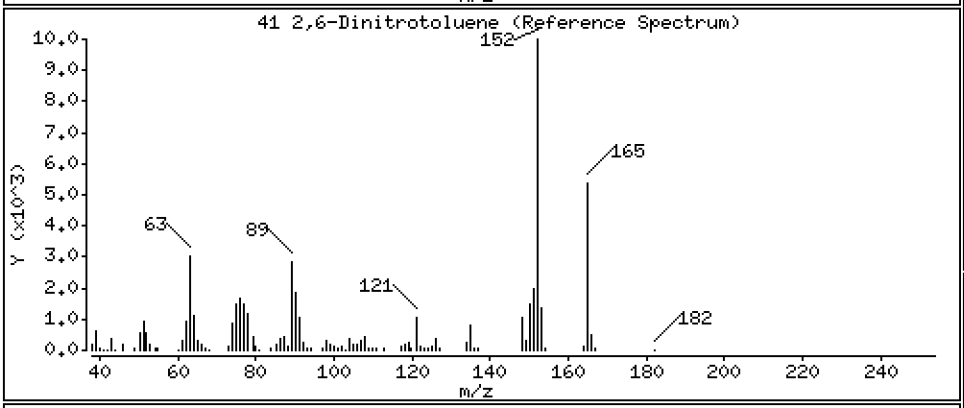
Concentration: 0.06358 ug/mL

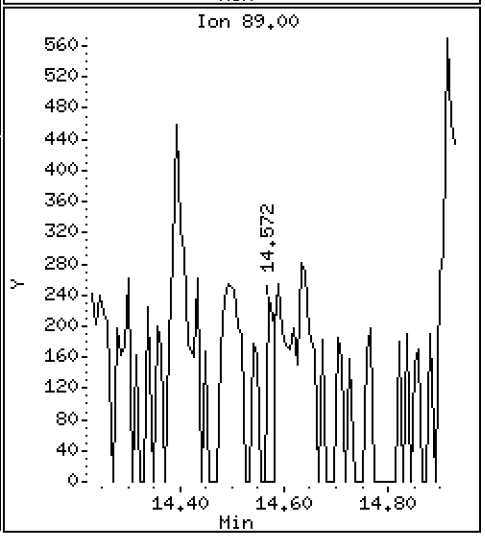


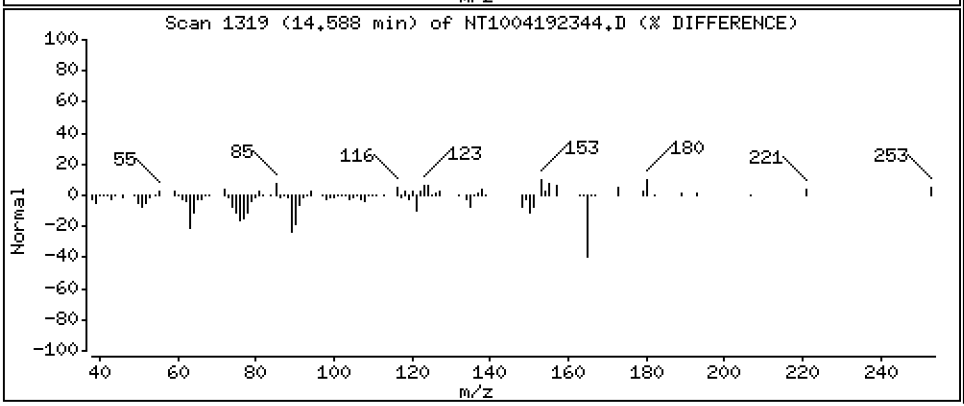












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192344.D

Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

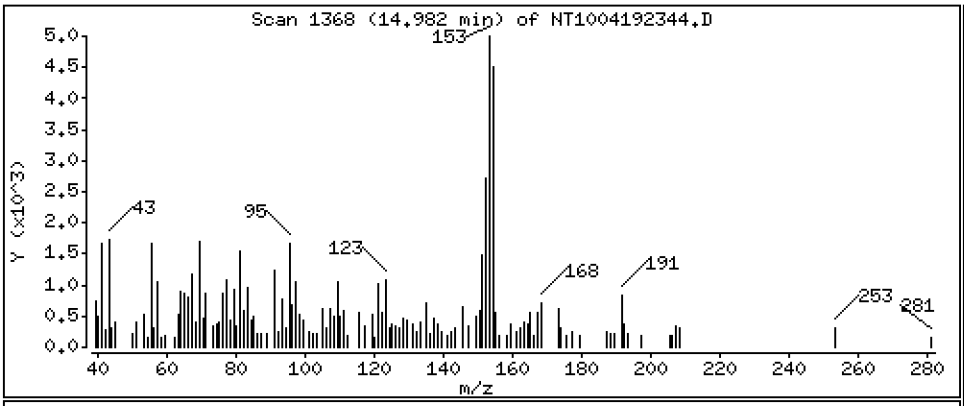
Operator: VTS

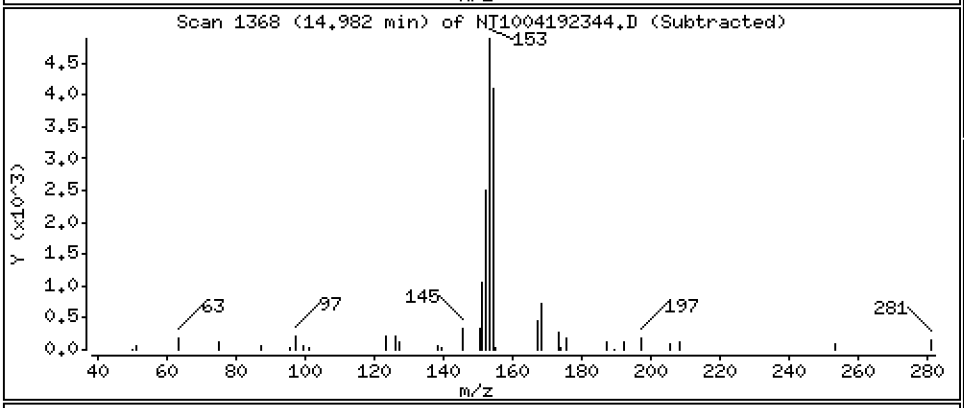
Column phase: ZB-5msi

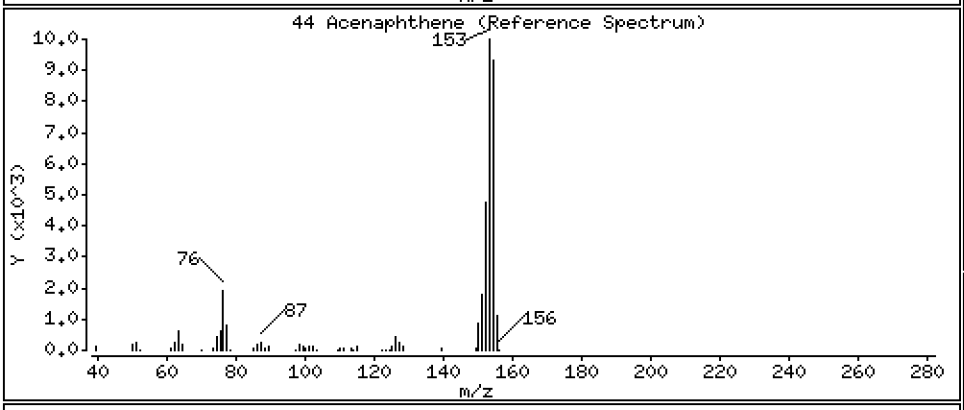
Column diameter: 0.25

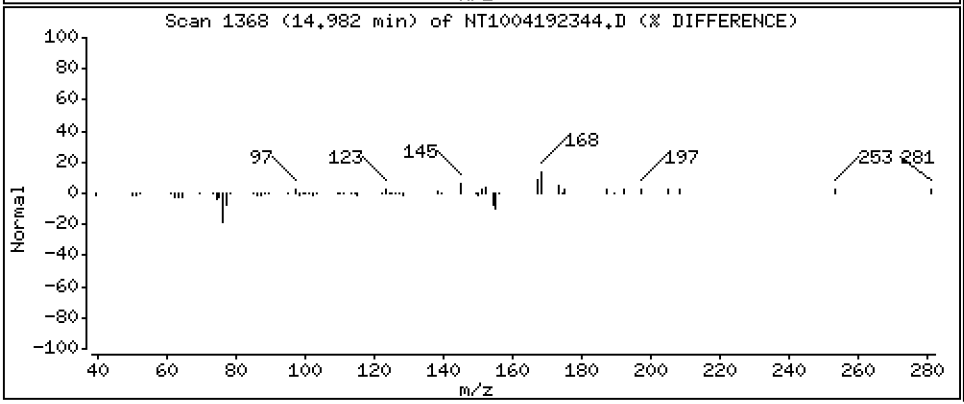
44 Acenaphthene

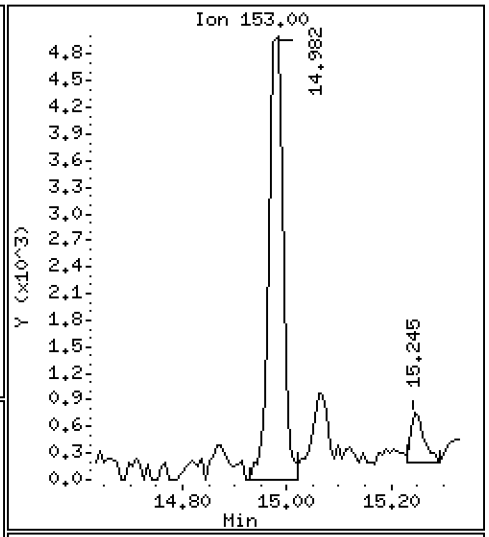
Concentration: 0.08678 ug/mL

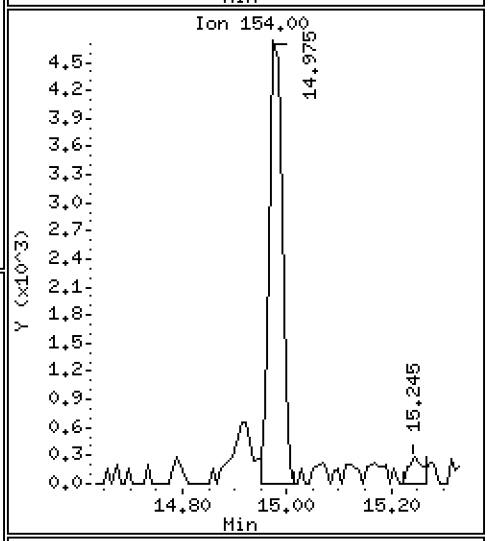


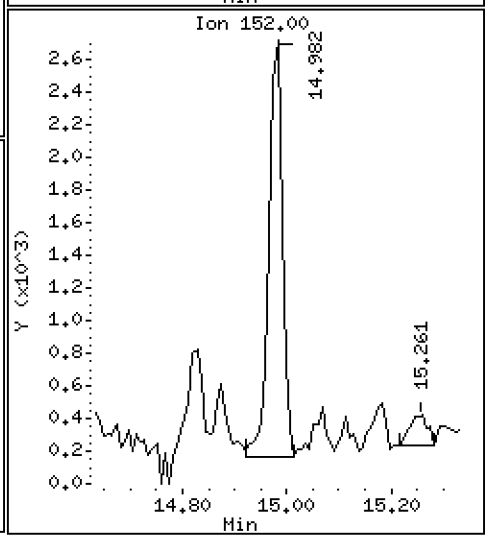












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

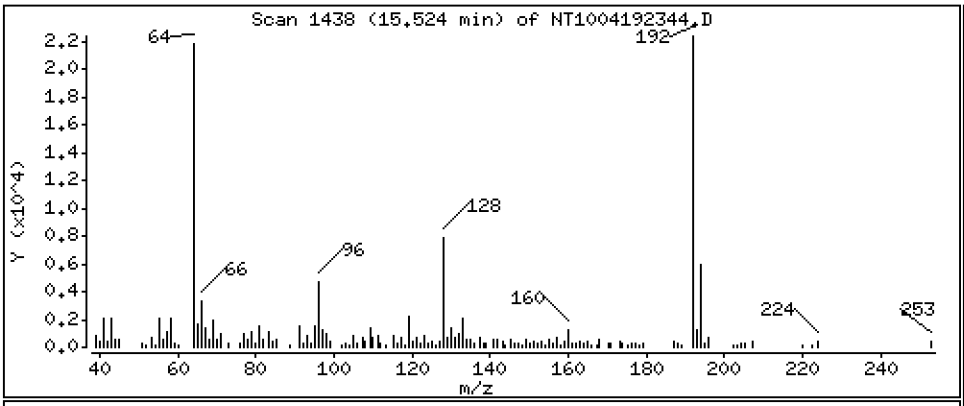
Operator: VTS

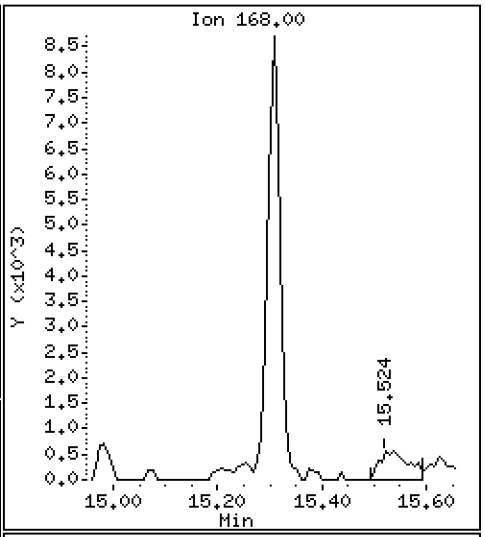
Column phase: ZB-5msi

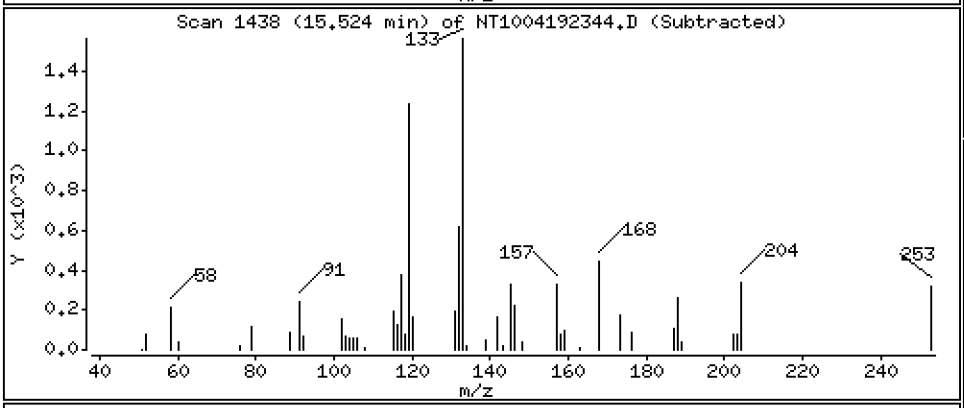
Column diameter: 0.25

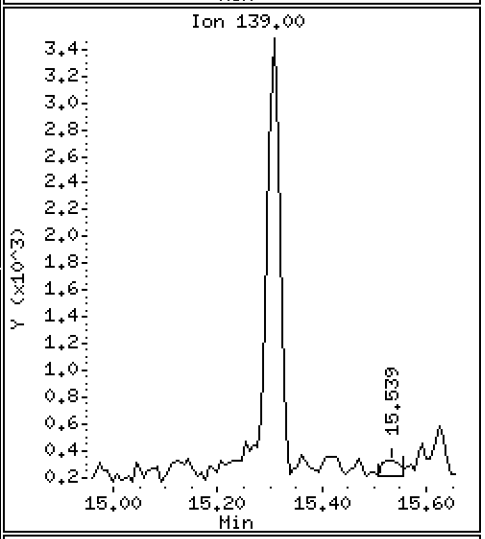
46 Dibenzofuran

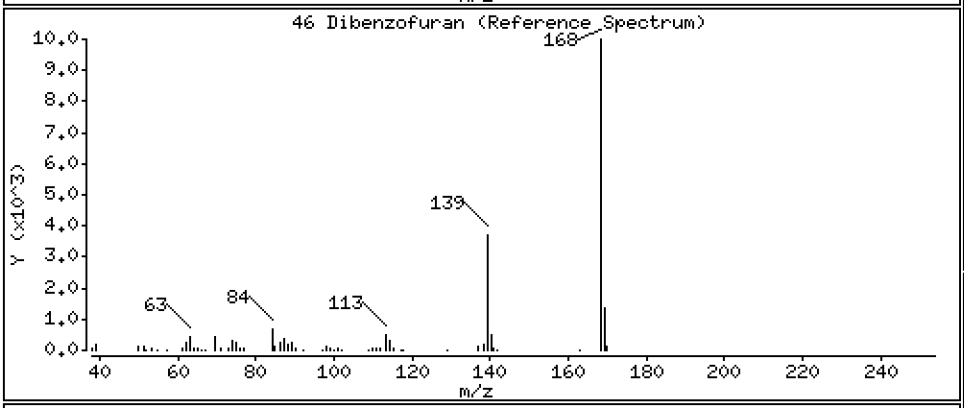
Concentration: 0.01412 ug/mL

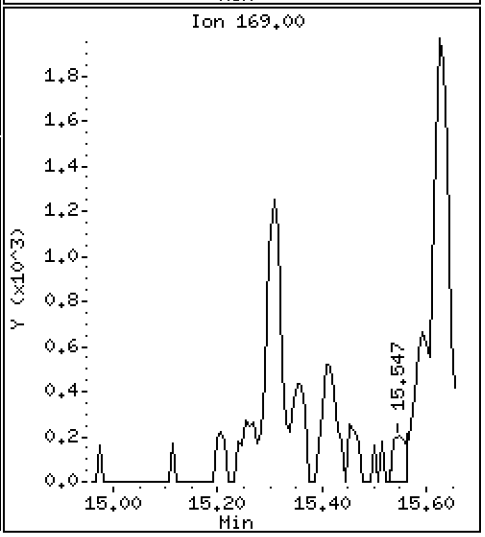


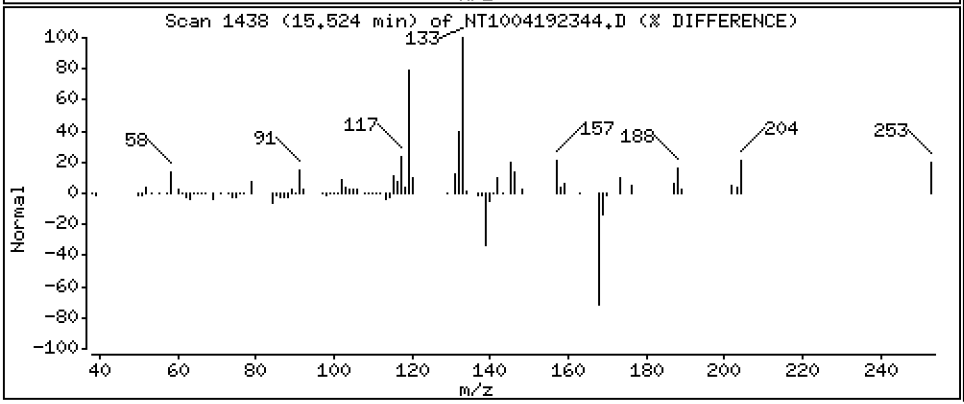












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

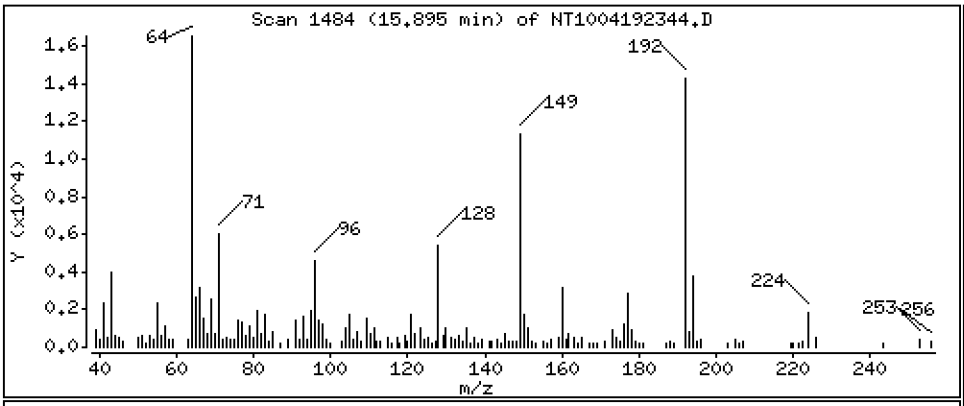
Operator: VTS

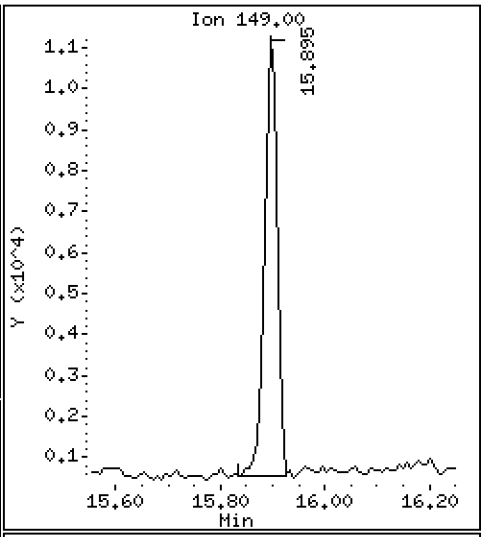
Column phase: ZB-5msi

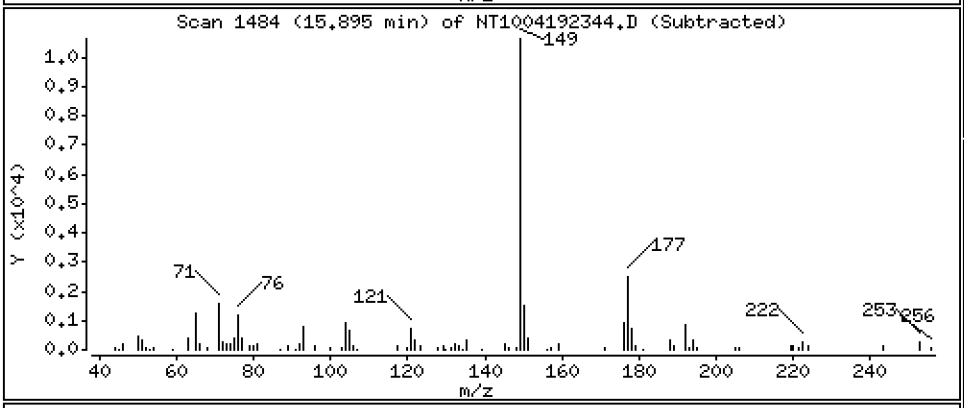
Column diameter: 0.25

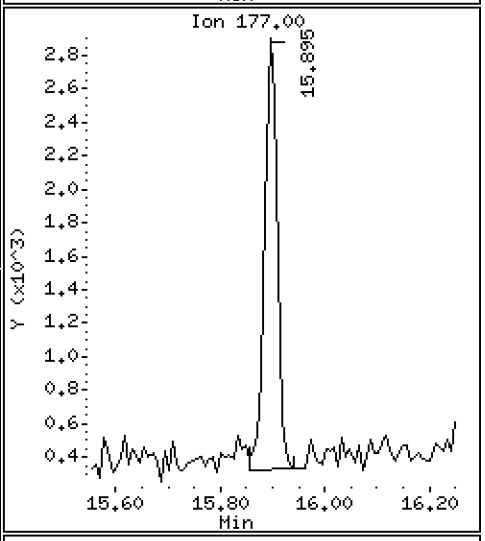
50 Diethylphthalate

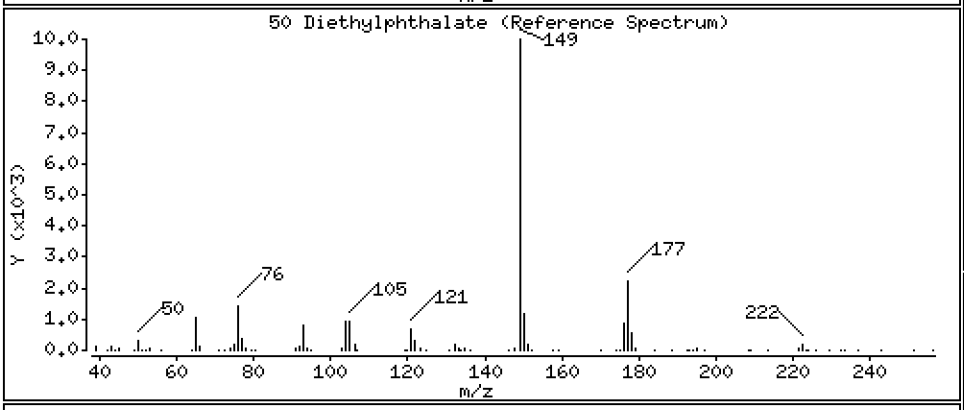
Concentration: 0.1578 ug/mL

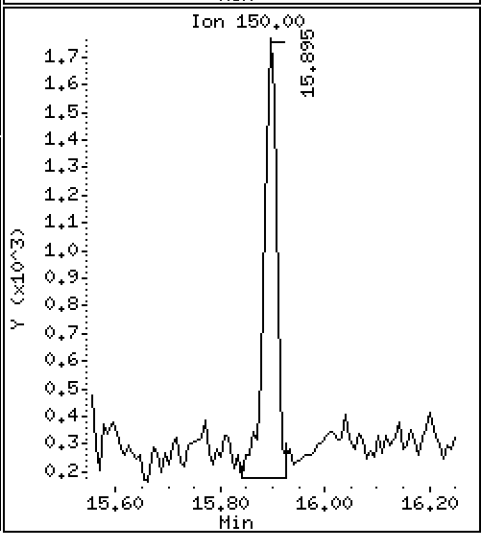


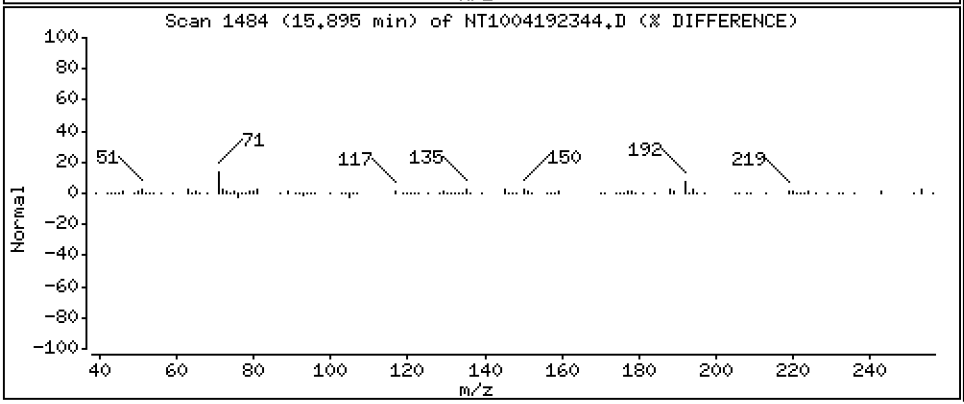












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

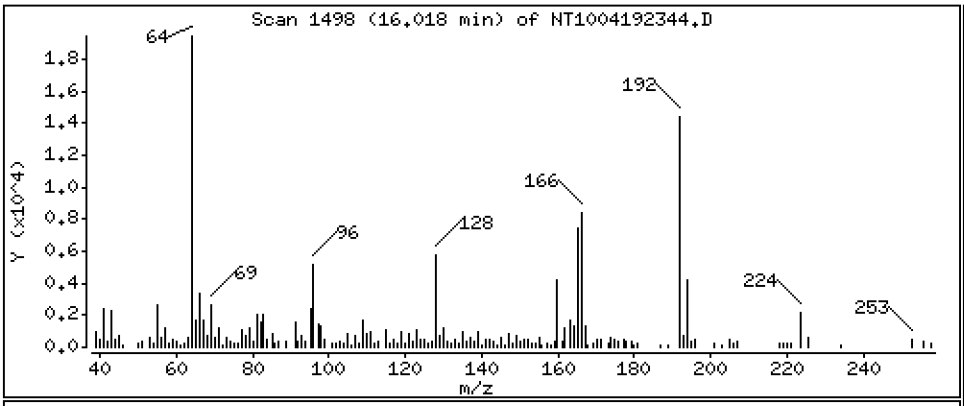
Operator: VTS

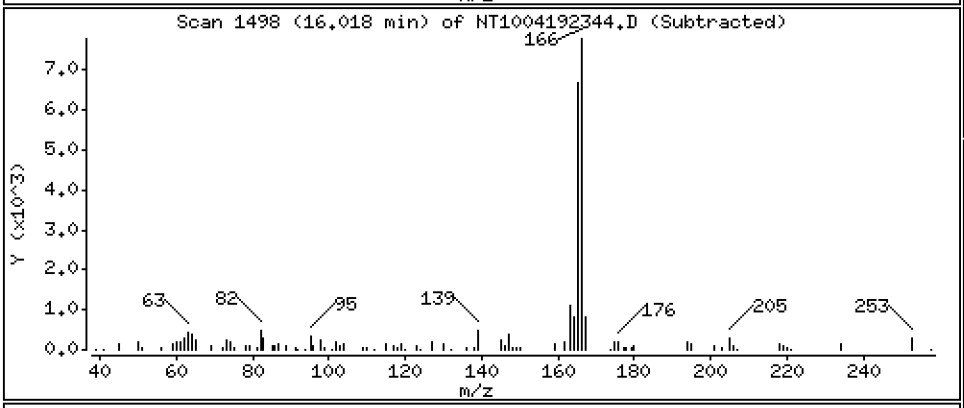
Column phase: ZB-5msi

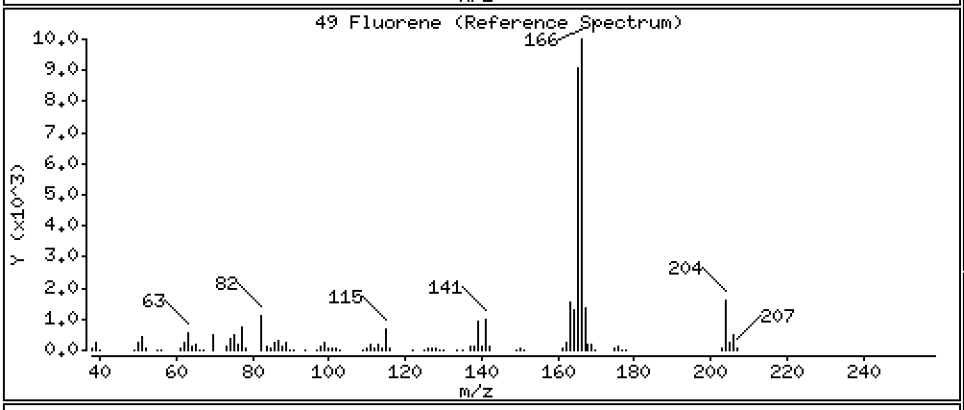
Column diameter: 0.25

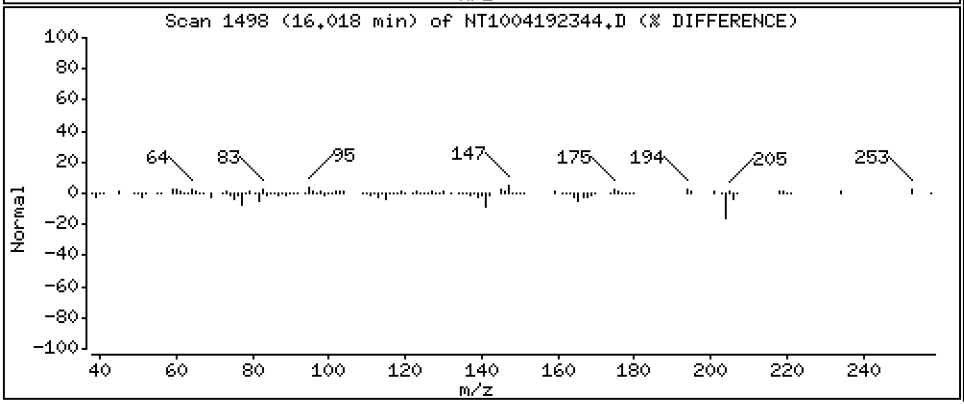
49 Fluorene

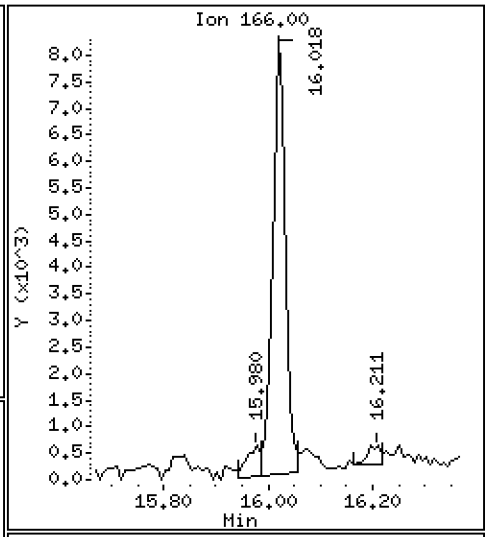
Concentration: 0.1134 ug/mL

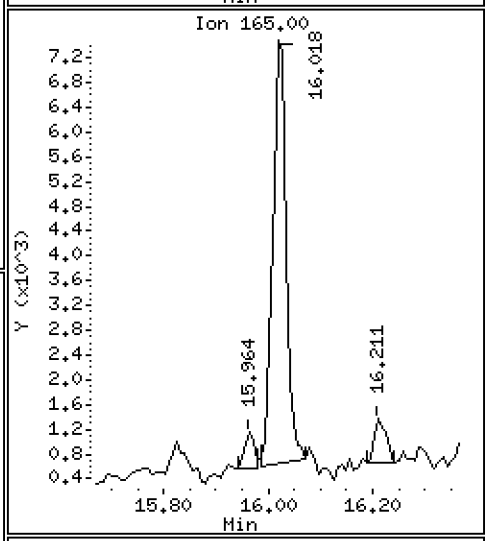


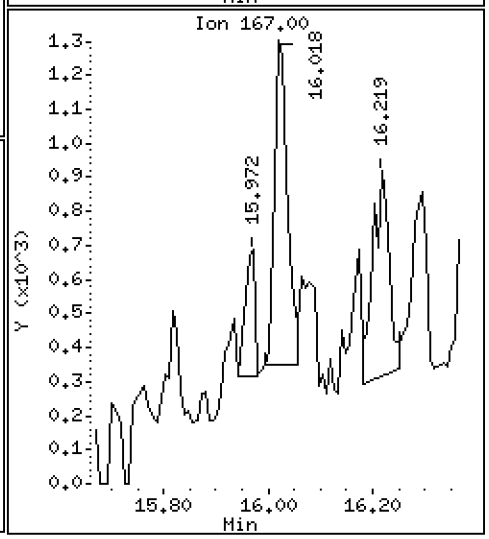












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

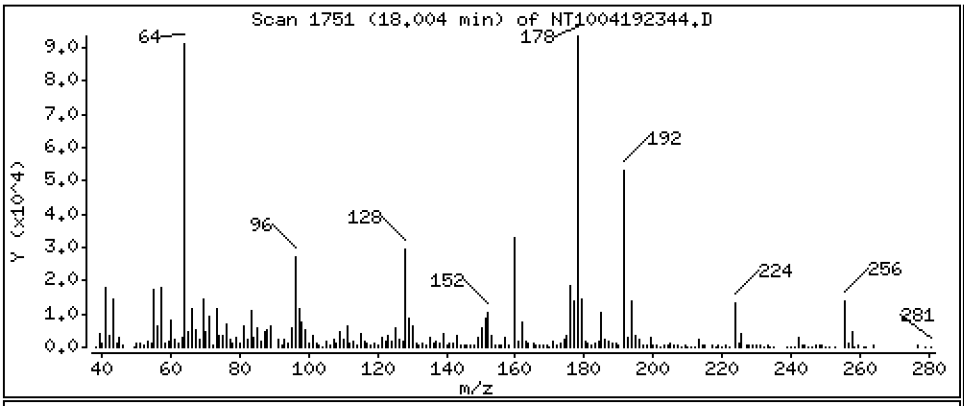
Operator: VTS

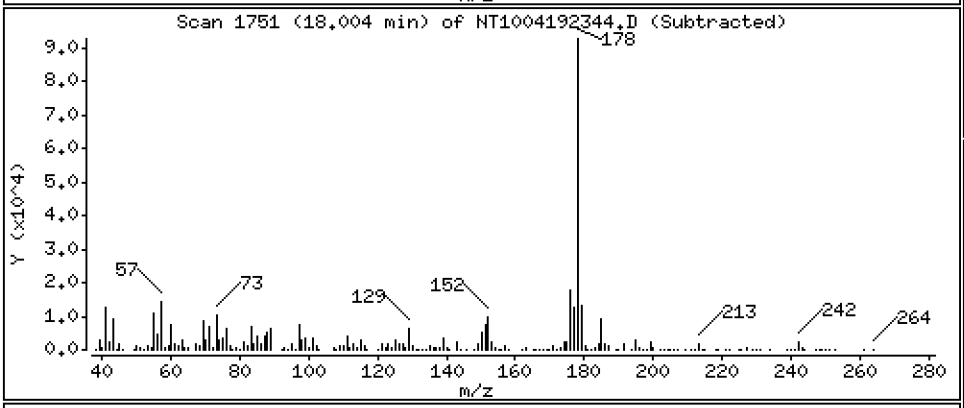
Column phase: ZB-5msi

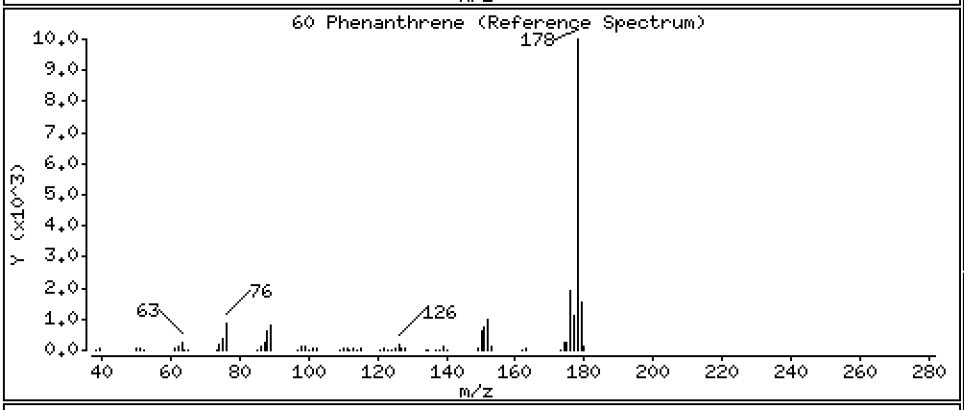
Column diameter: 0.25

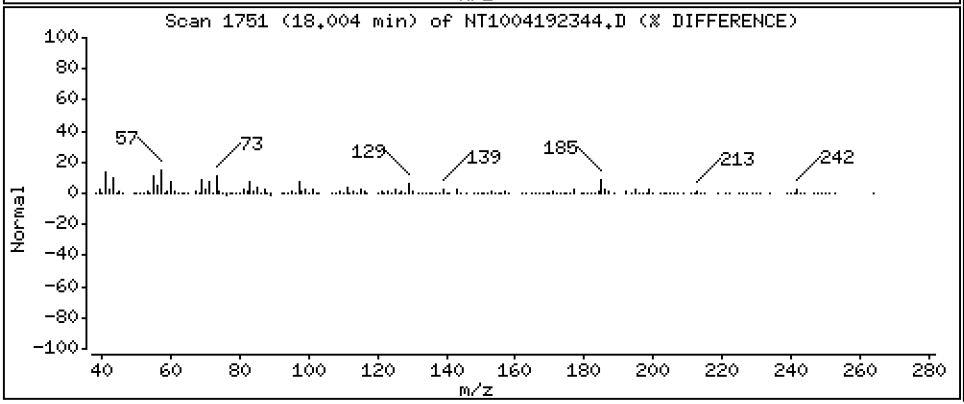
60 Phenanthrene

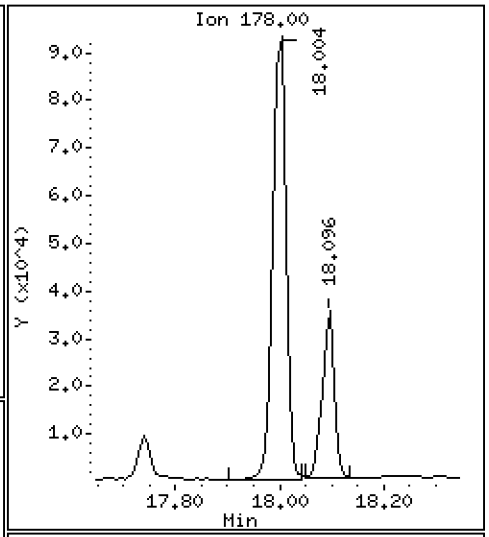
Concentration: 0.9271 ug/mL

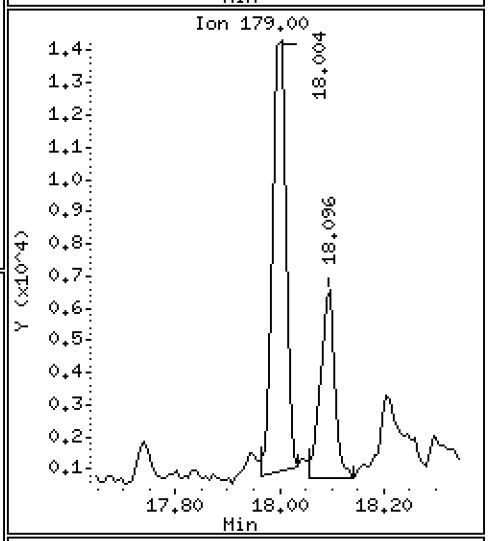


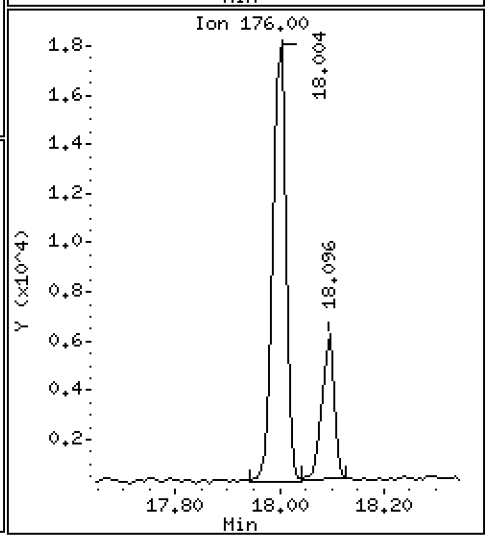












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

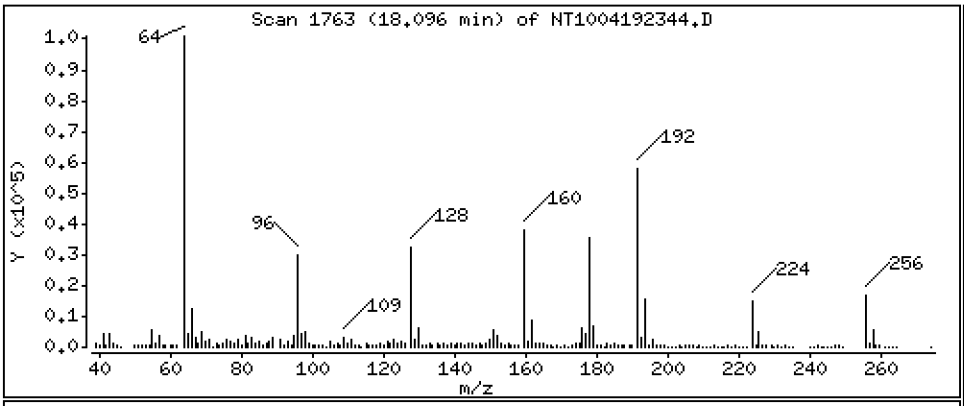
Operator: VTS

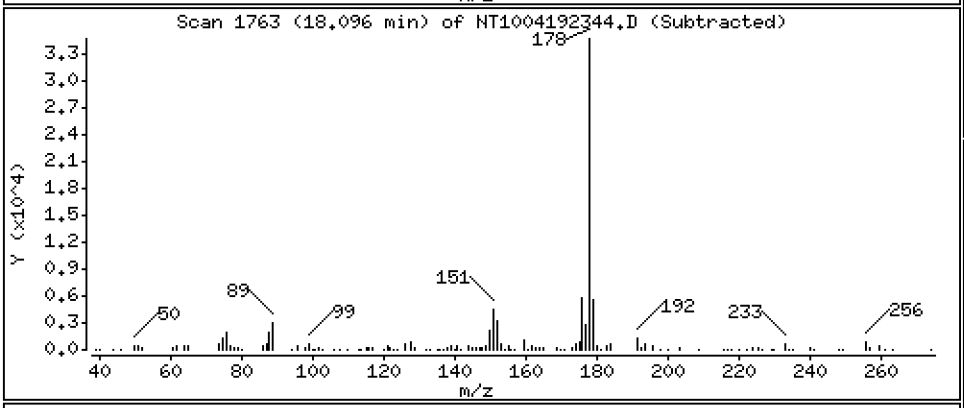
Column phase: ZB-5msi

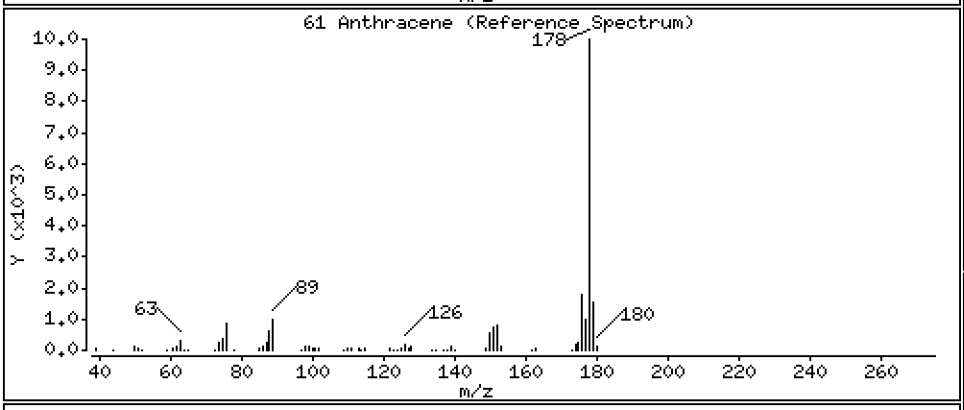
Column diameter: 0.25

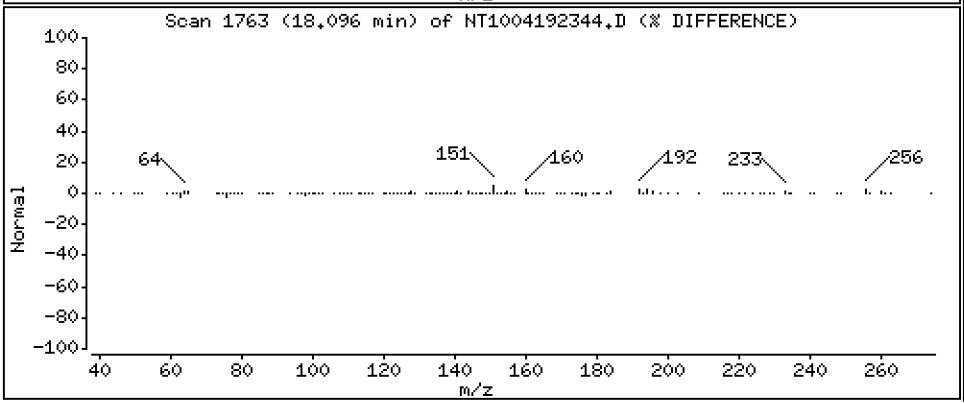
61 Anthracene

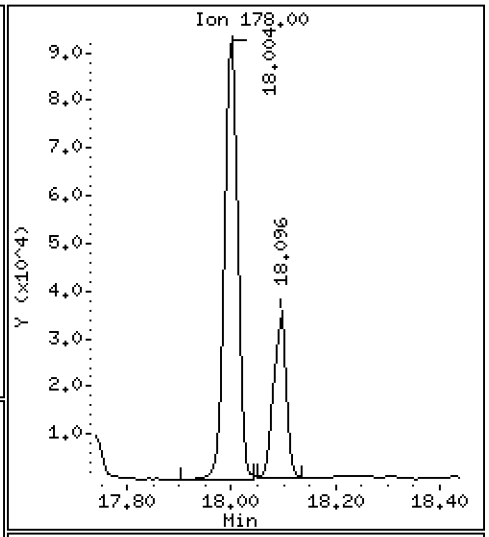
Concentration: 0.3462 ug/mL

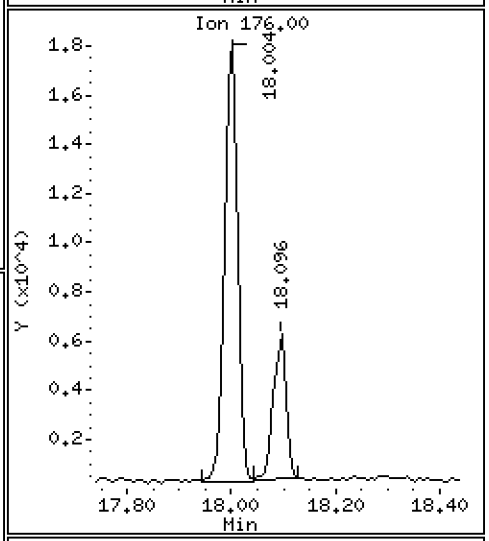


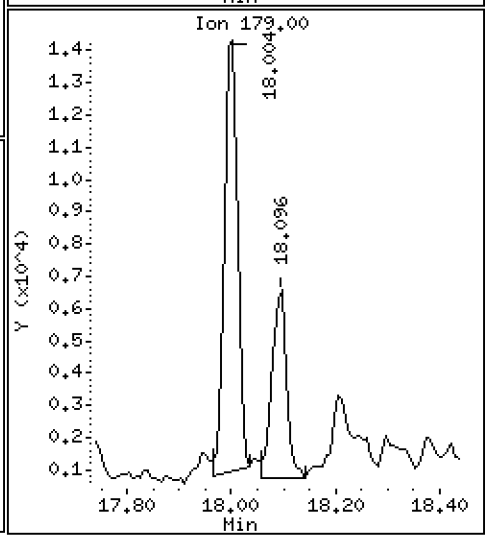












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

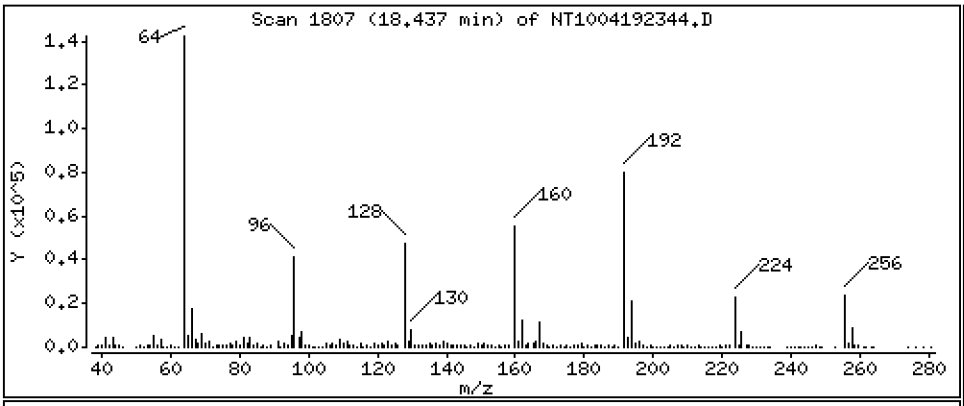
Operator: VTS

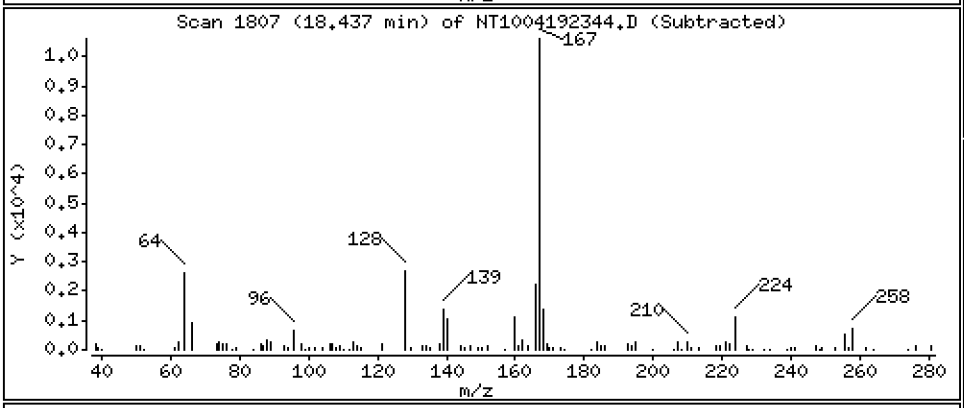
Column phase: ZB-5msi

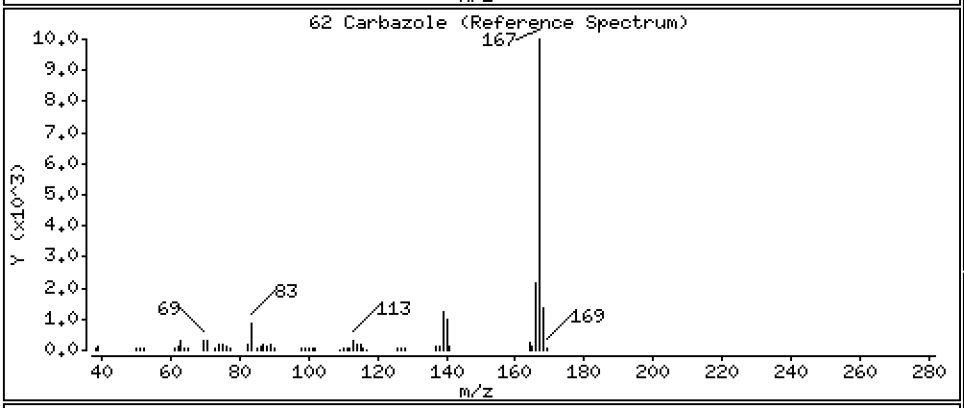
Column diameter: 0.25

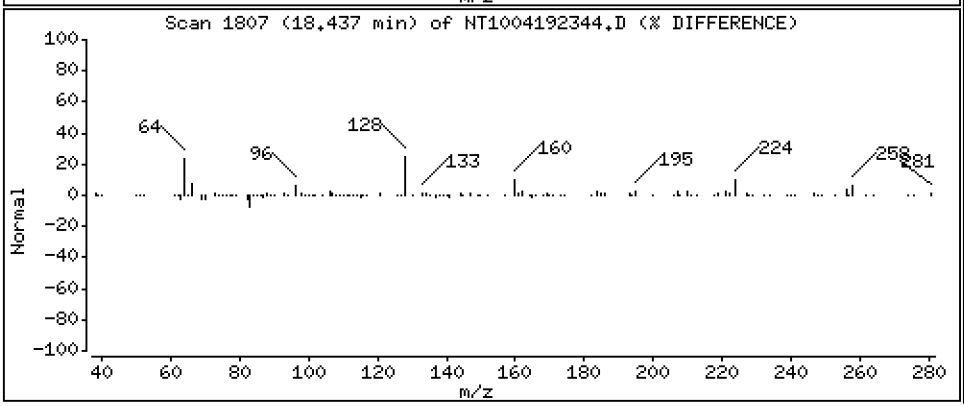
62 Carbazole

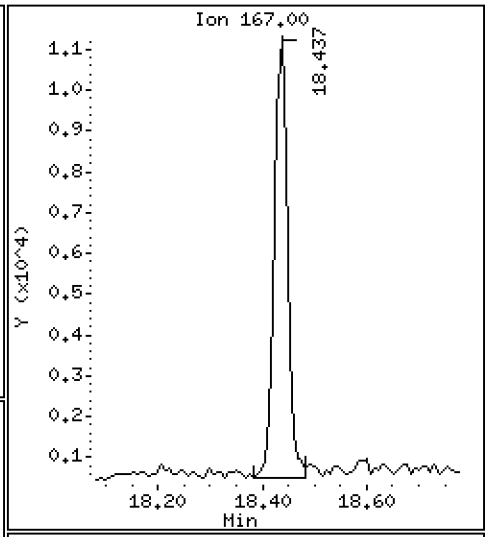
Concentration: 0.1256 ug/mL

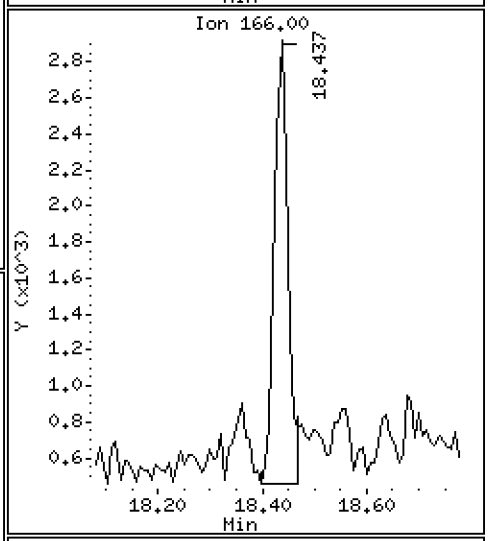


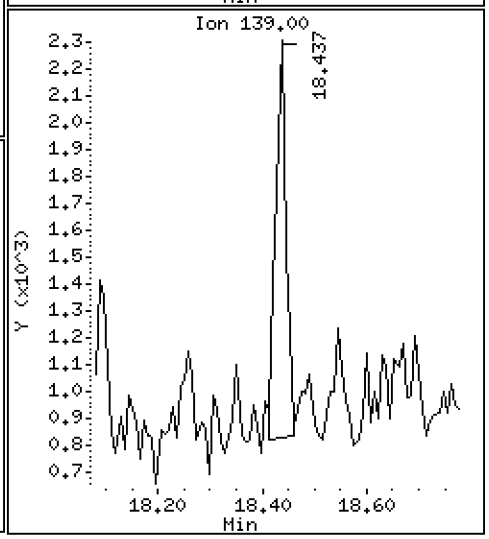












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192344.D

Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

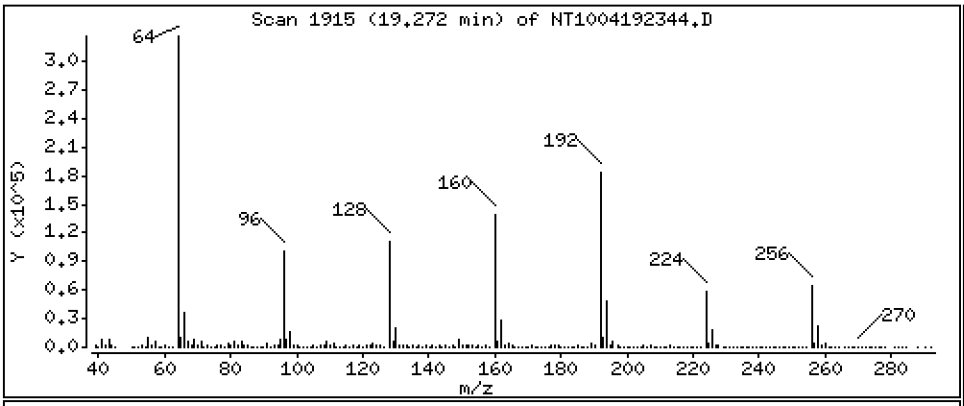
Operator: VTS

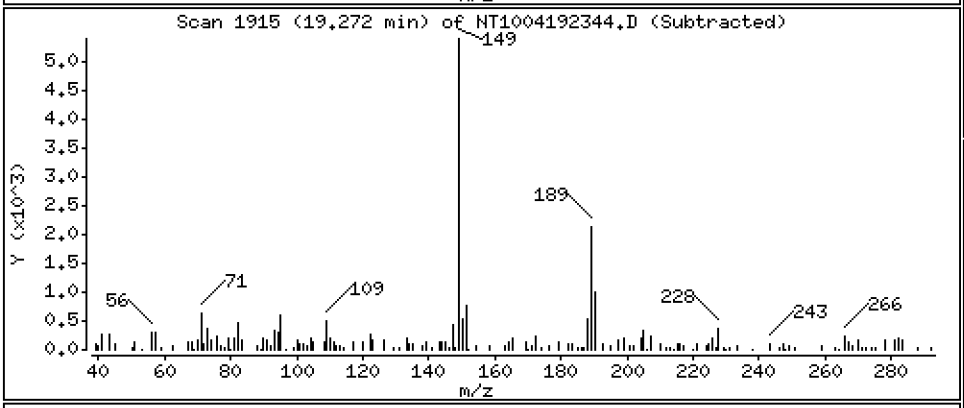
Column phase: ZB-5msi

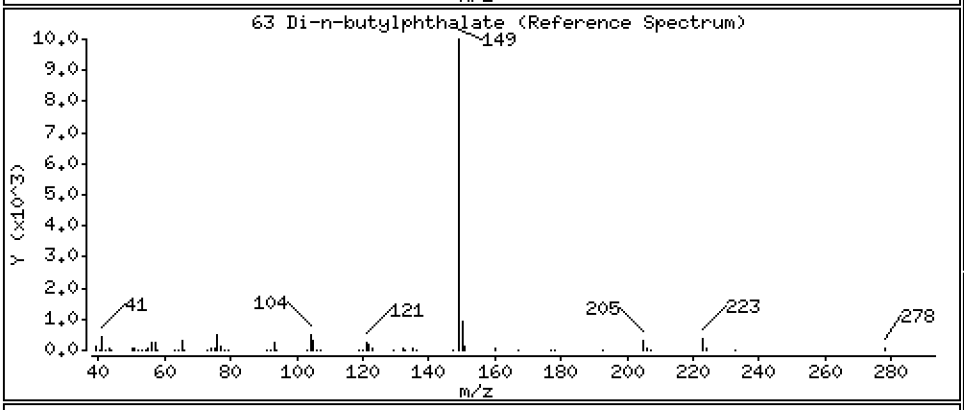
Column diameter: 0.25

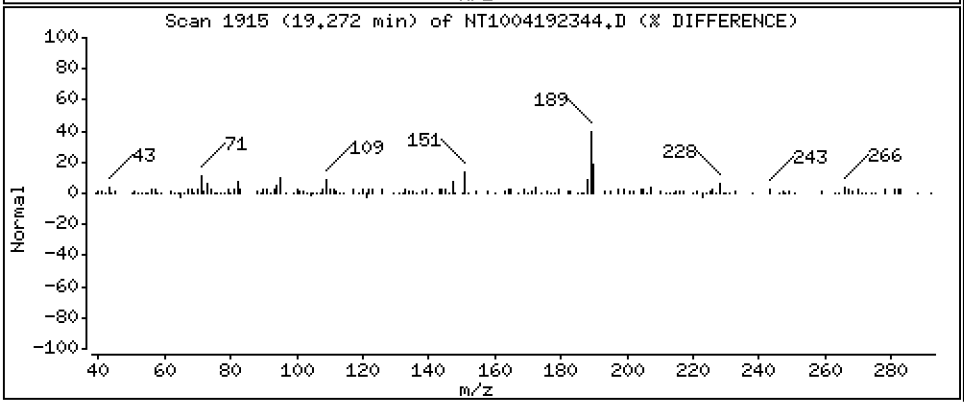
63 Di-n-butylphthalate

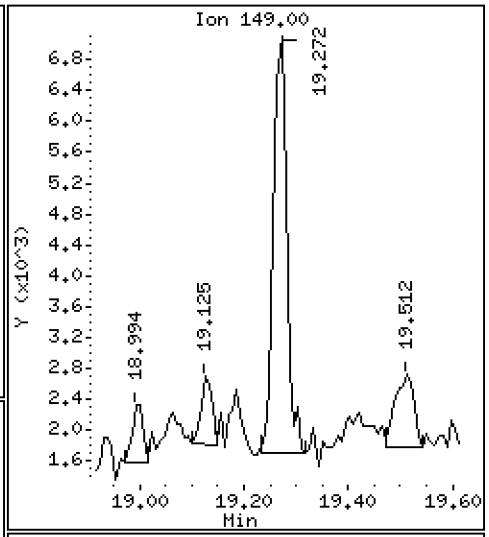
Concentration: 0.04694 ug/mL

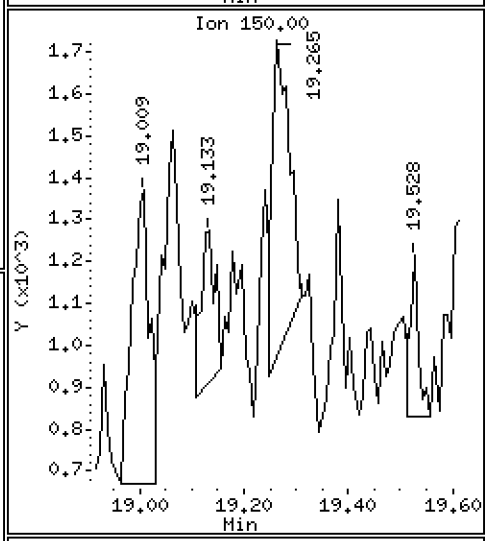


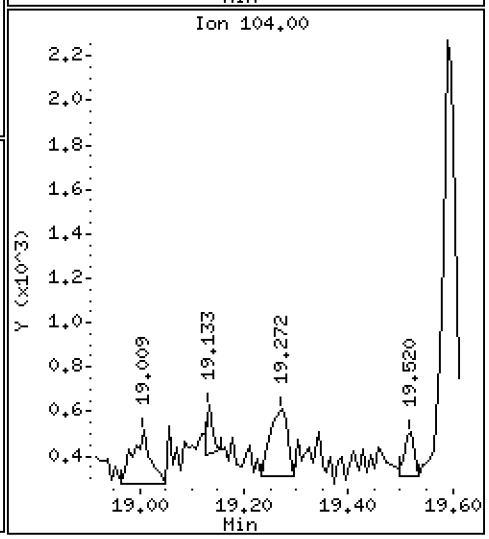












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

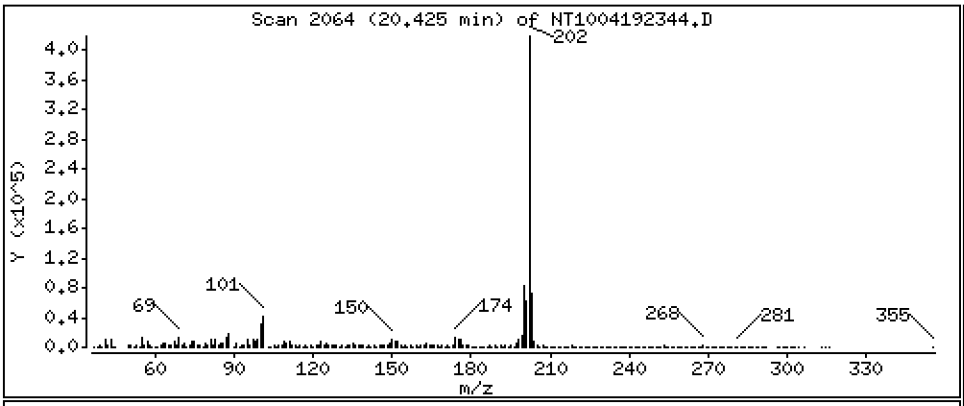
Operator: VTS

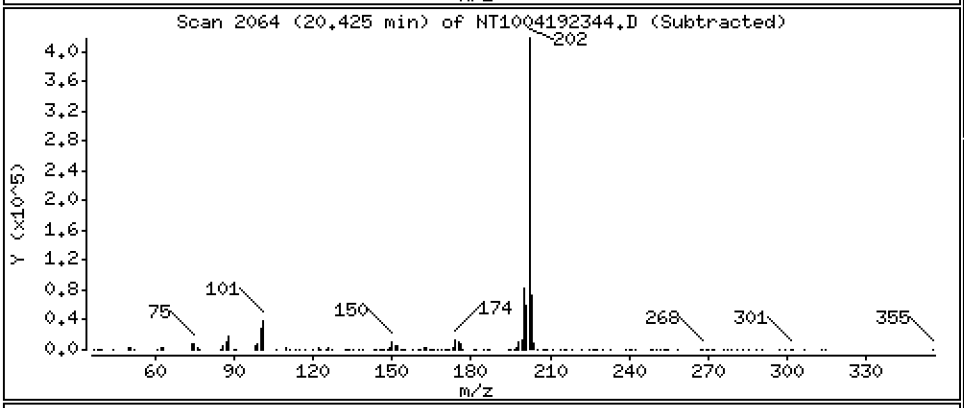
Column phase: ZB-5msi

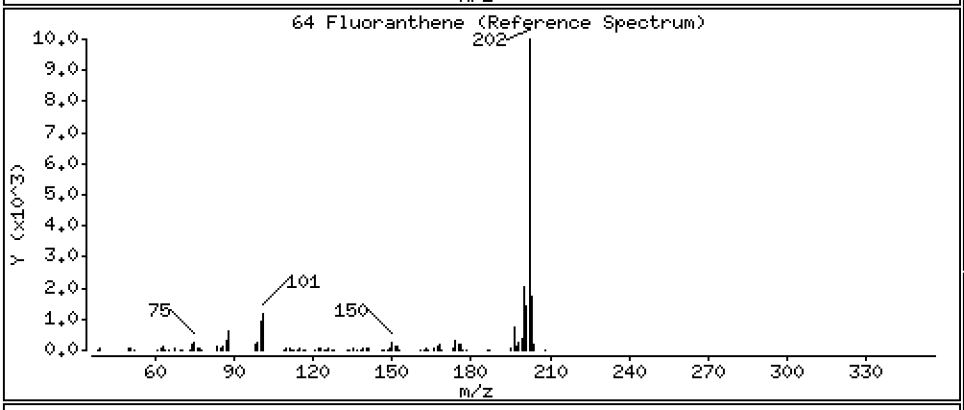
Column diameter: 0.25

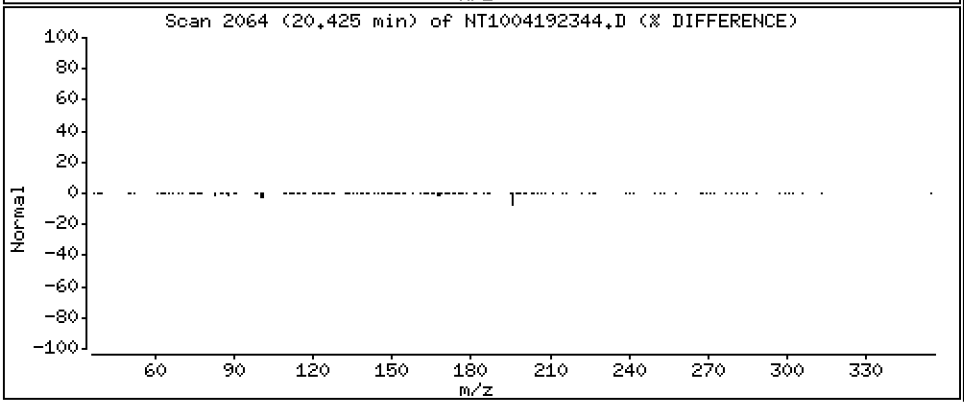
64 Fluoranthene

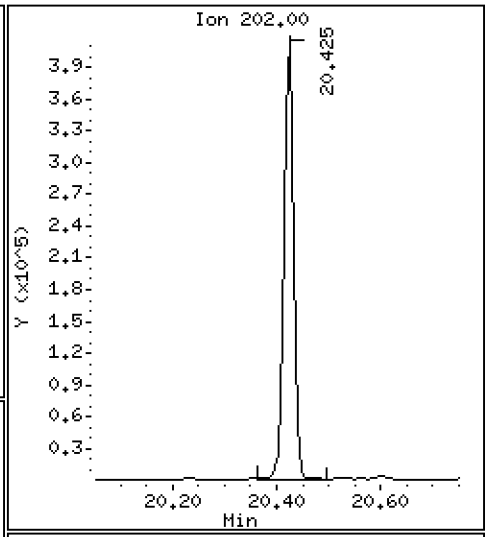
Concentration: 2.329 ug/mL

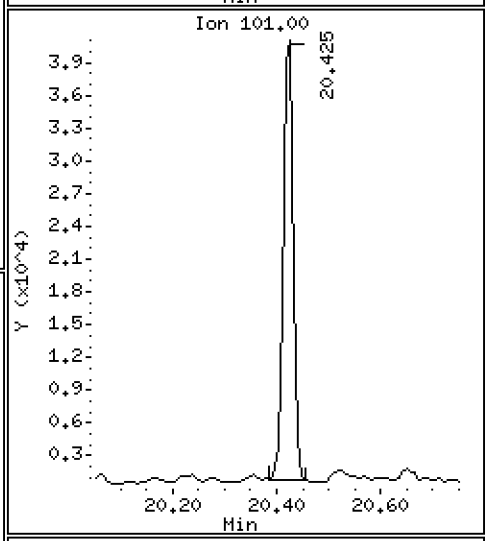


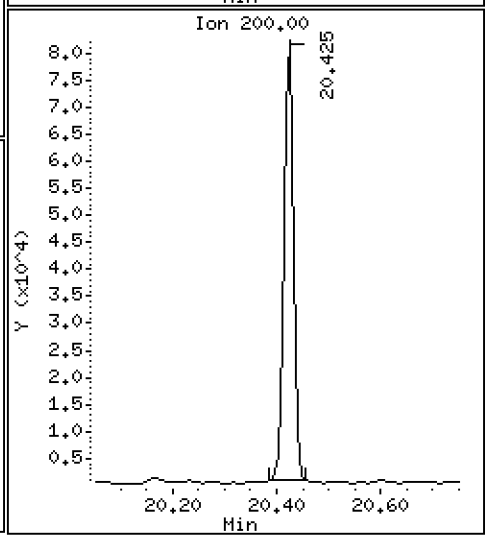












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

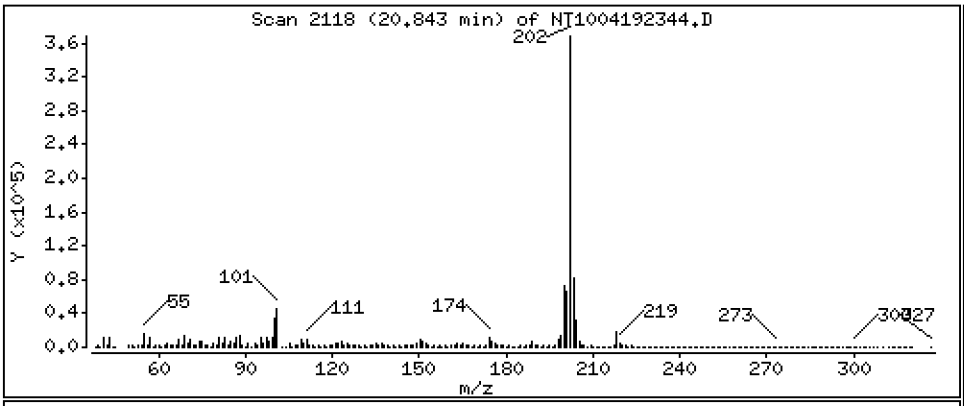
Operator: VTS

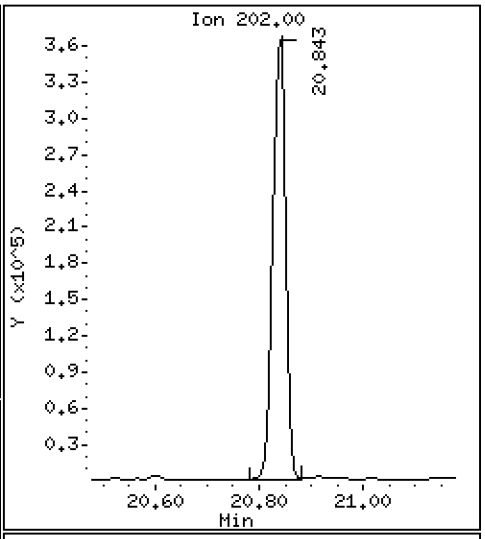
Column phase: ZB-5msi

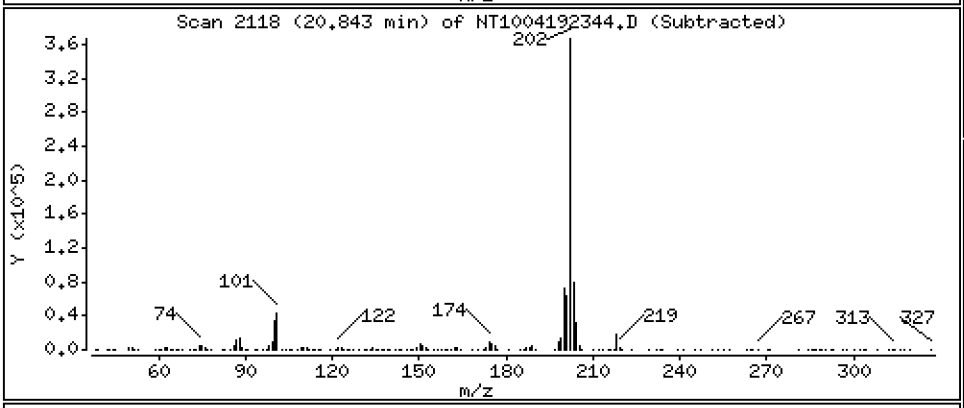
Column diameter: 0.25

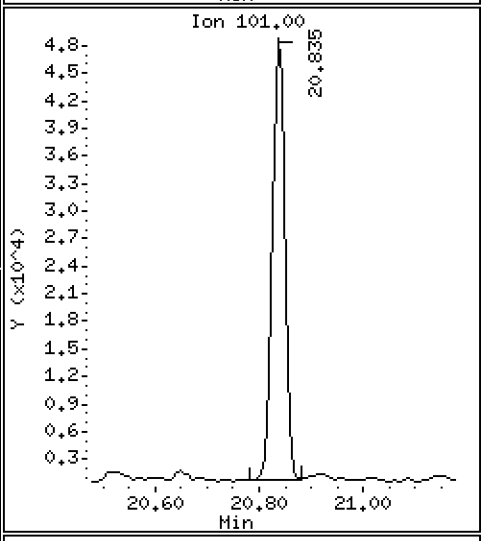
65 Pyrene

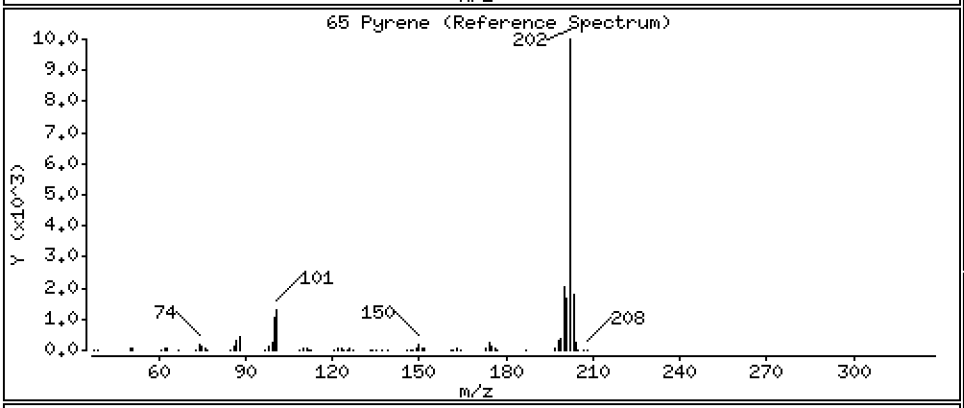
Concentration: 2.421 ug/mL

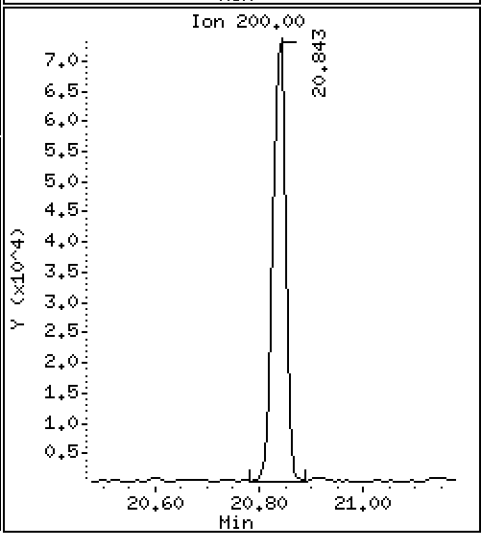


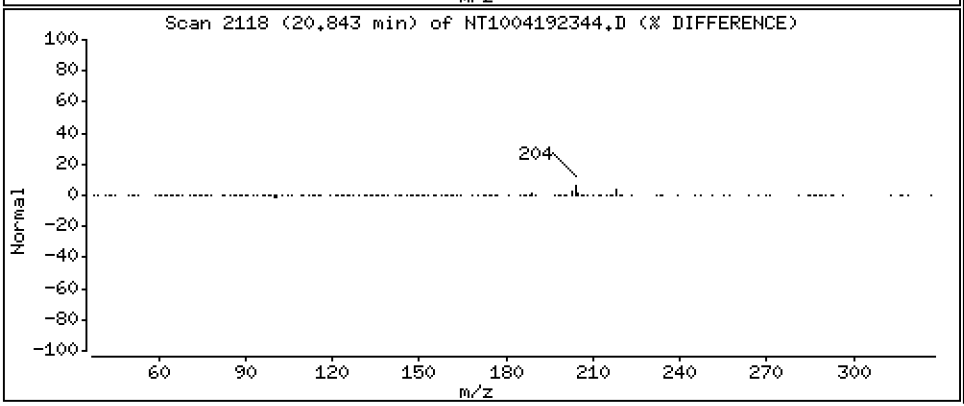












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

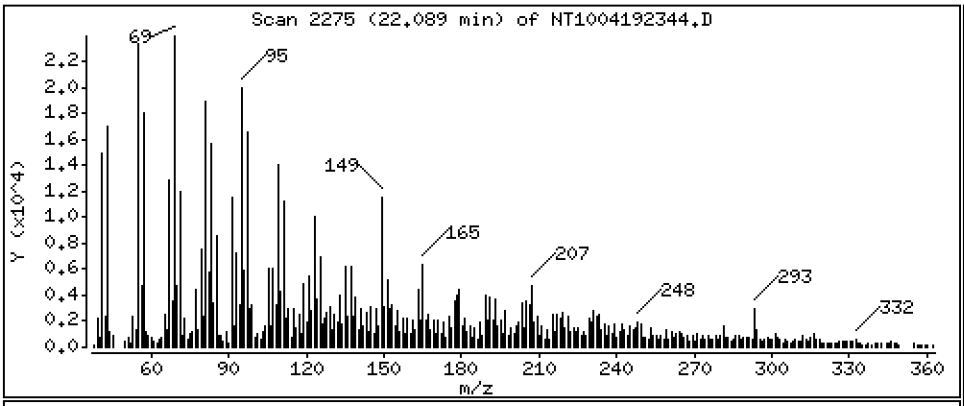
Operator: VTS

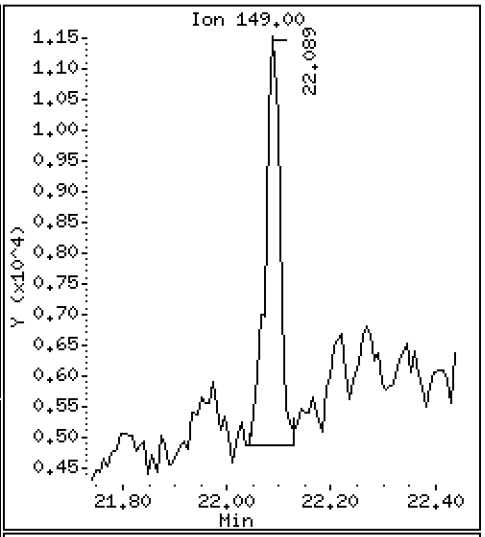
Column phase: ZB-5msi

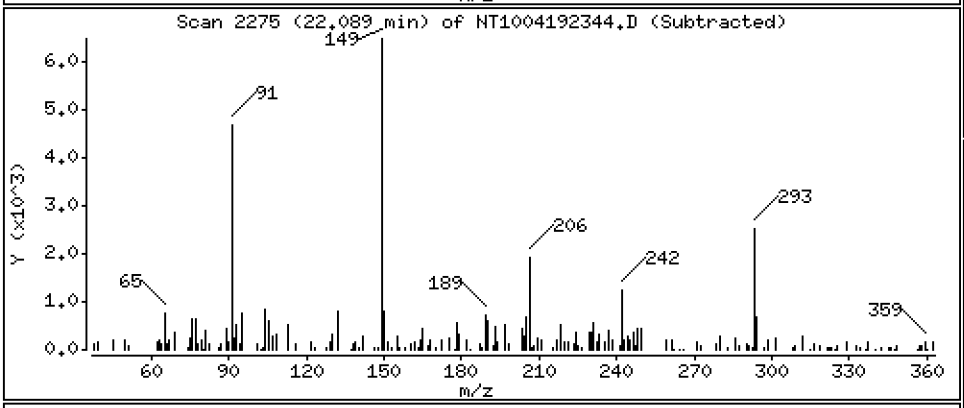
Column diameter: 0.25

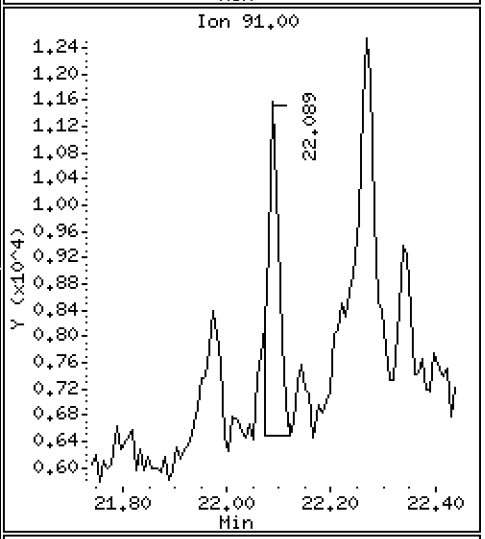
67 Butylbenzylphthalate

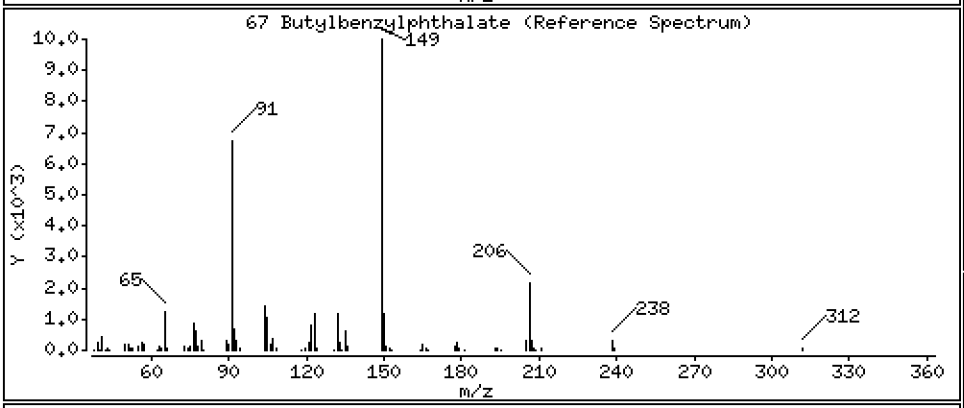
Concentration: 0.1436 ug/mL

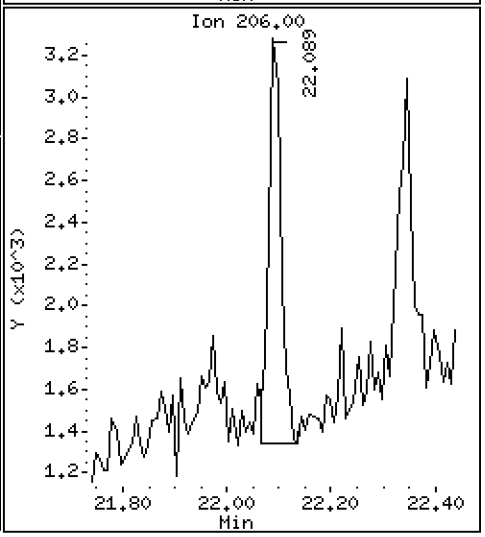


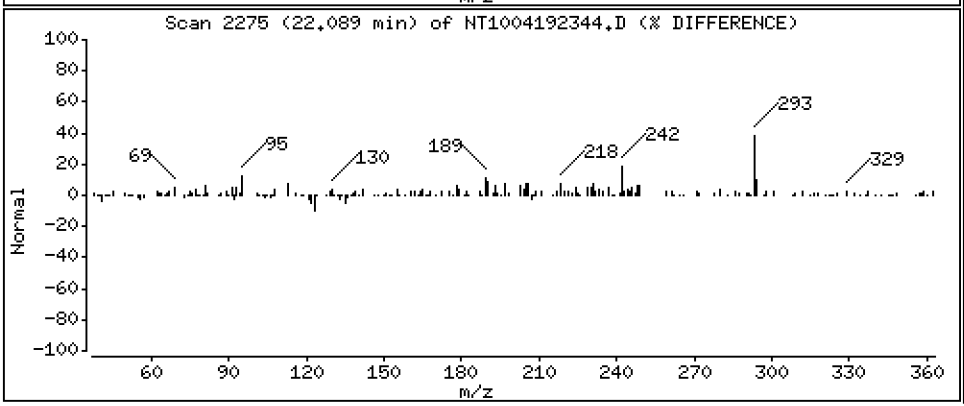












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

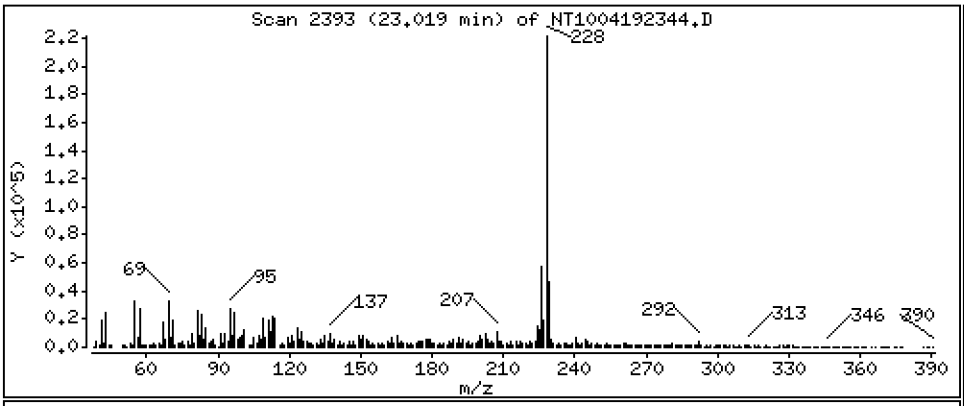
Operator: VTS

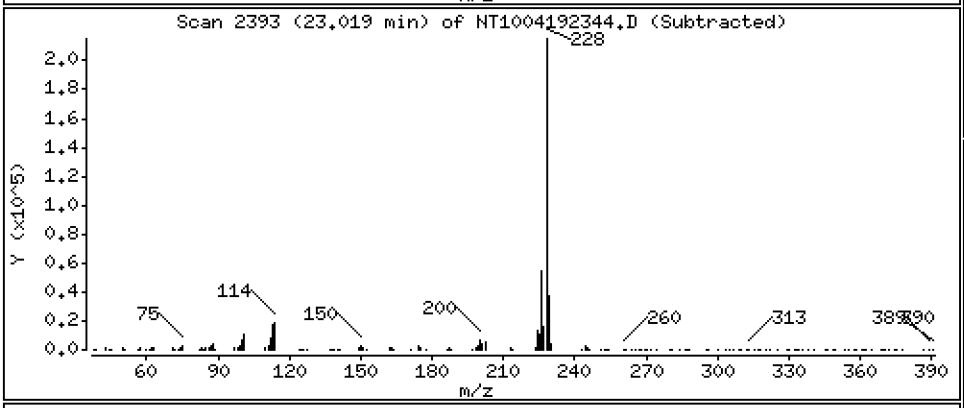
Column phase: ZB-5msi

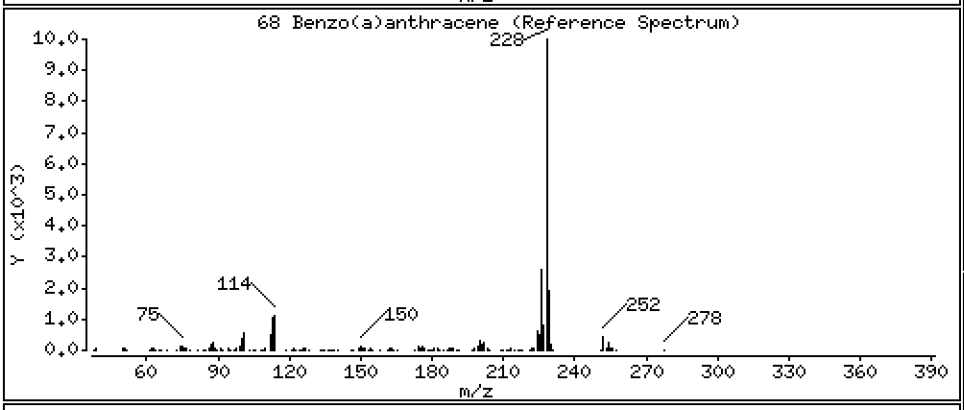
Column diameter: 0.25

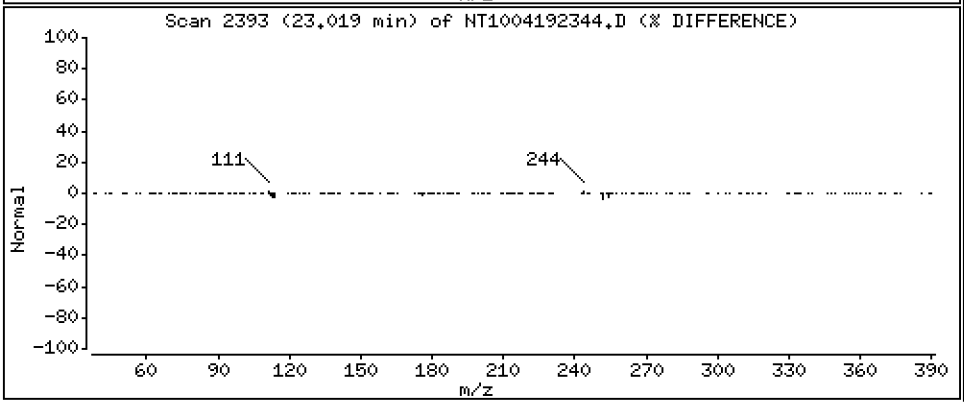
68 Benzo(a)anthracene

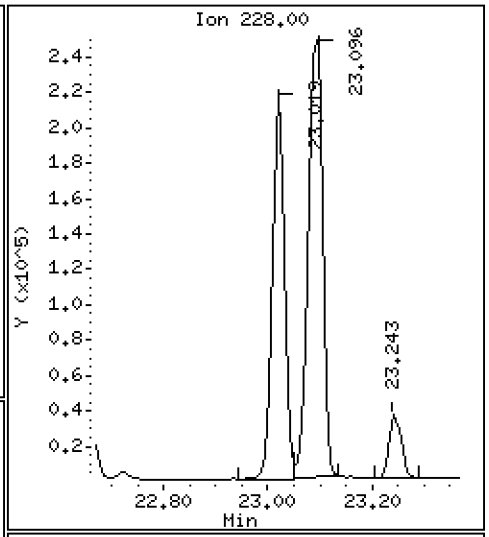
Concentration: 1.562 ug/mL

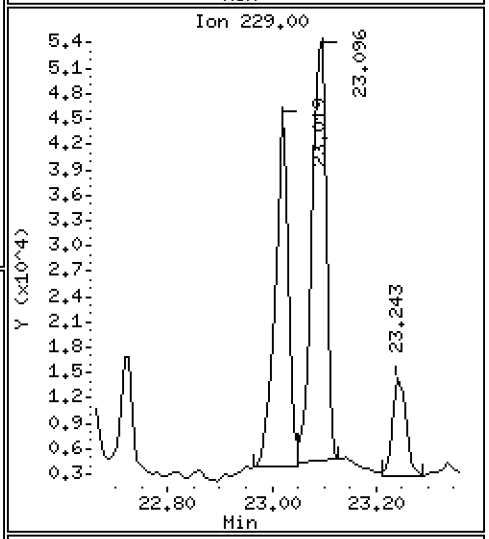


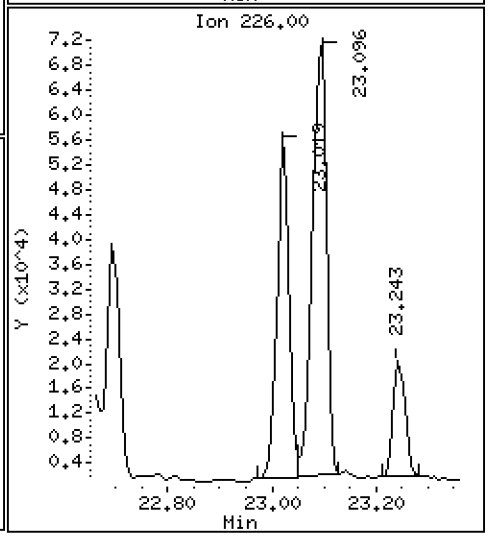












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

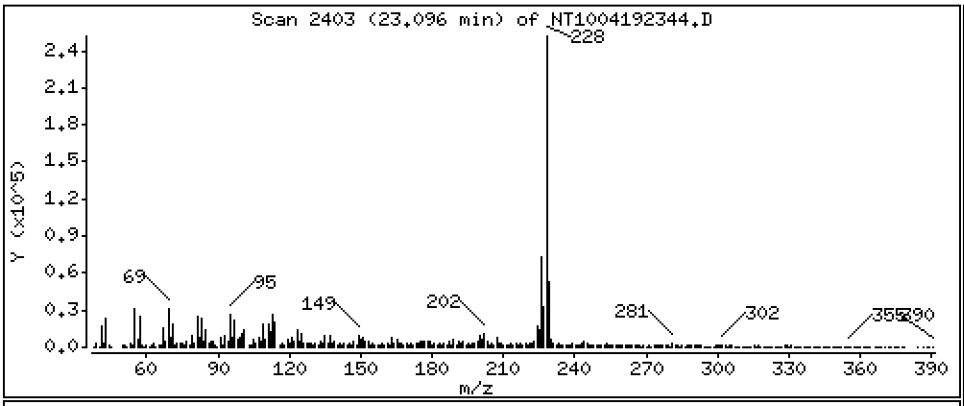
Operator: VTS

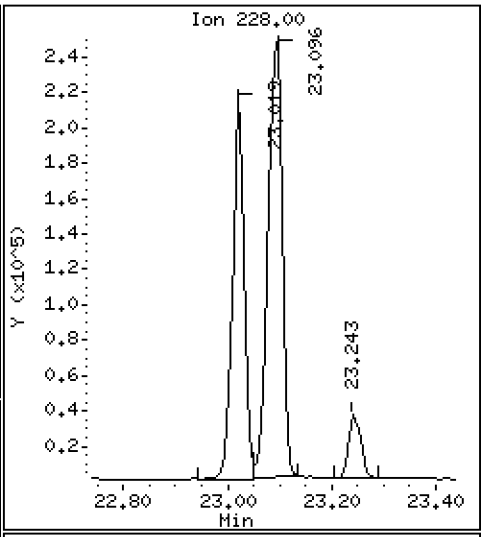
Column phase: ZB-5msi

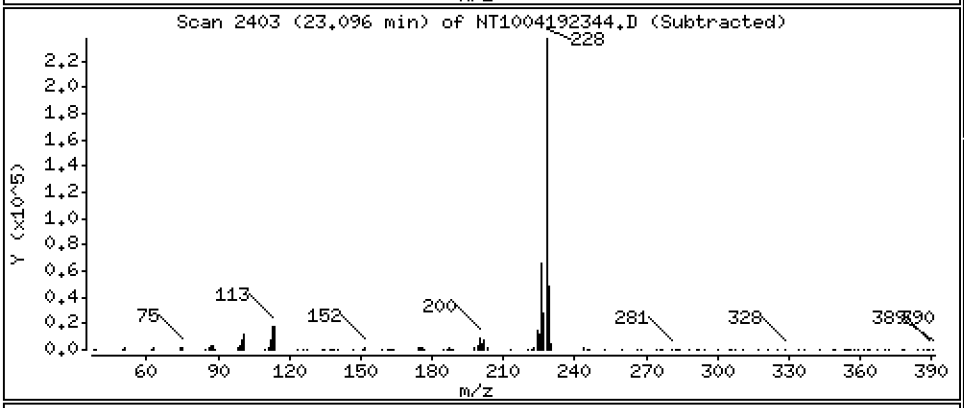
Column diameter: 0.25

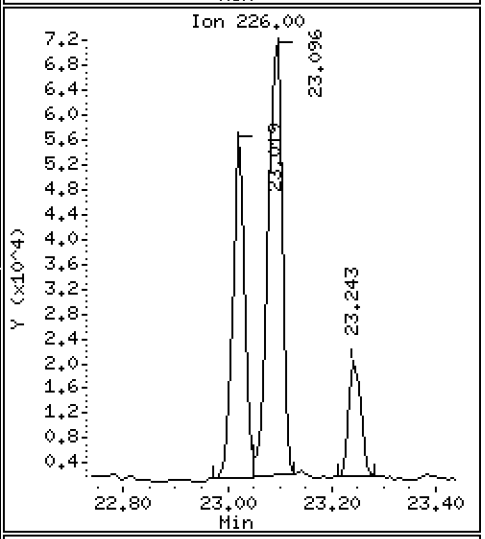
71 Chrysene

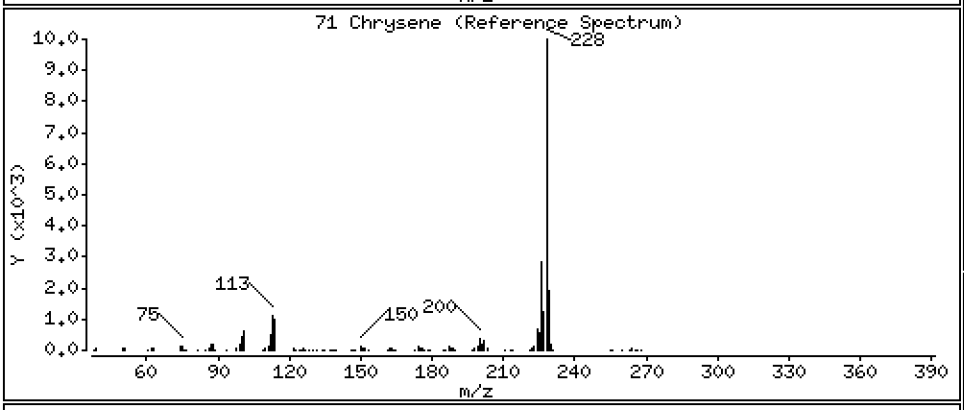
Concentration: 2.186 ug/mL

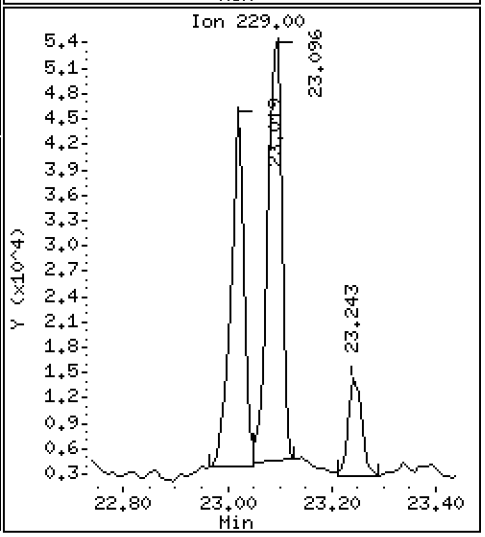


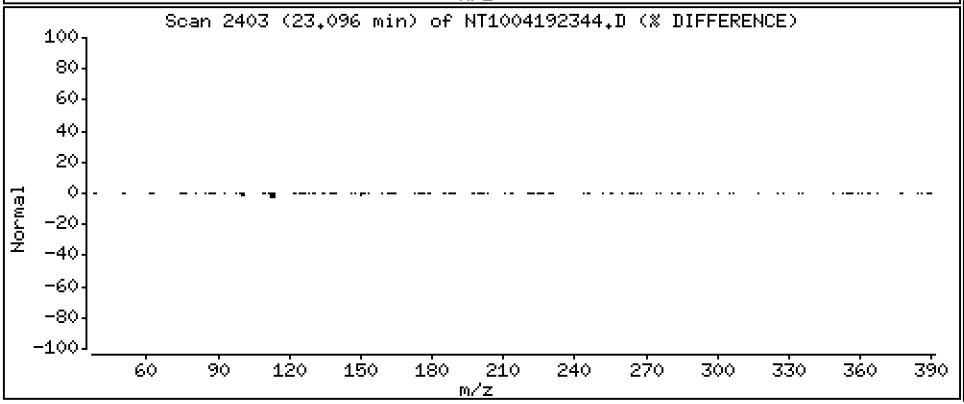












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

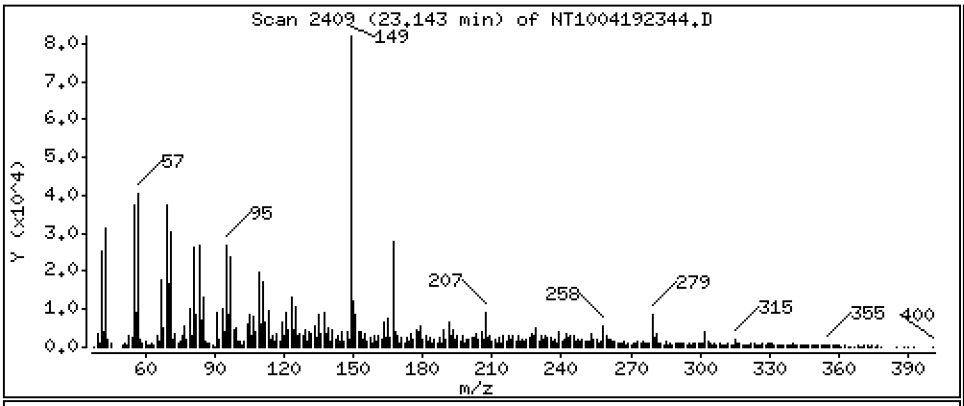
Operator: VTS

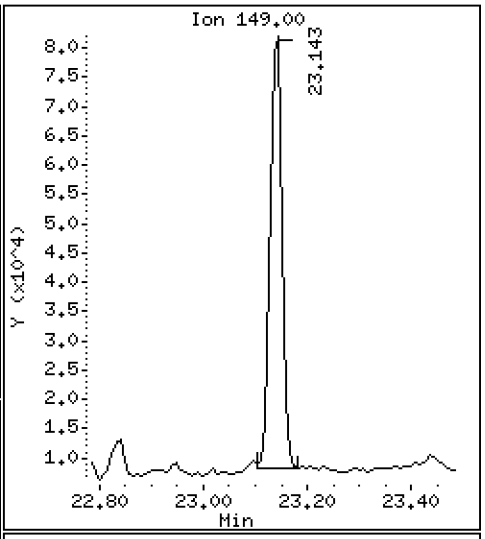
Column phase: ZB-5msi

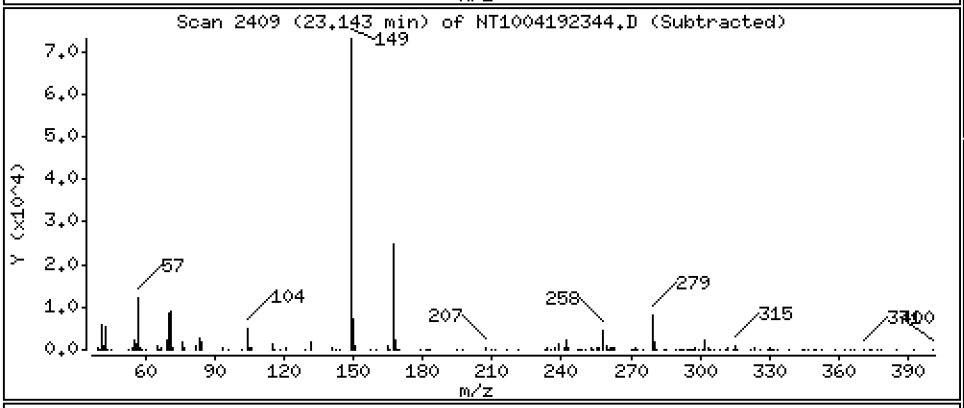
Column diameter: 0.25

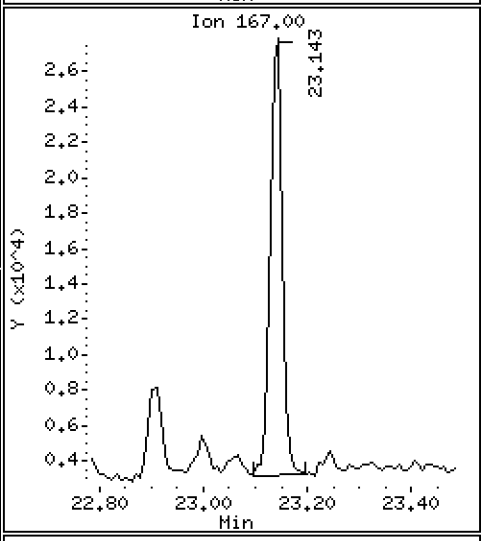
72 bis(2-Ethylhexyl)phthalate

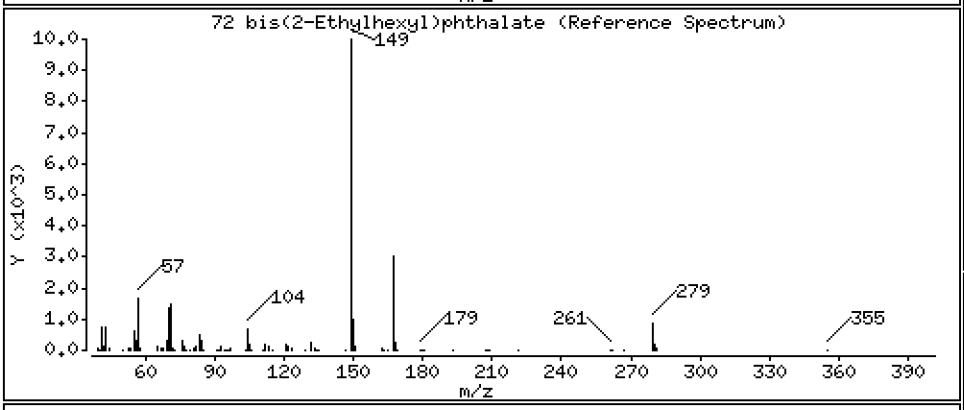
Concentration: 0.8465 ug/mL

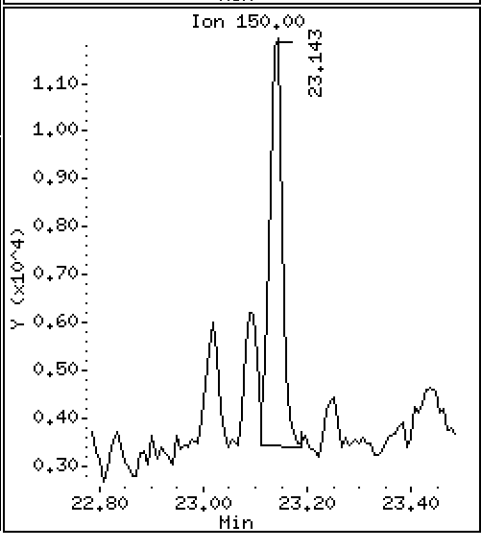


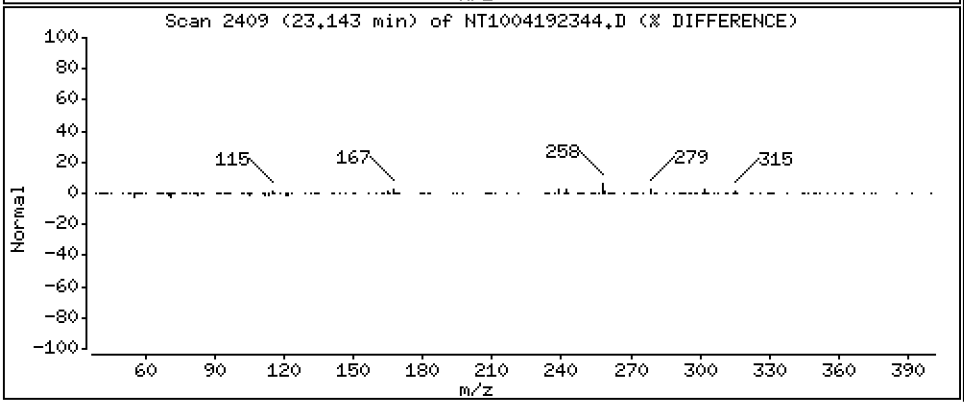












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

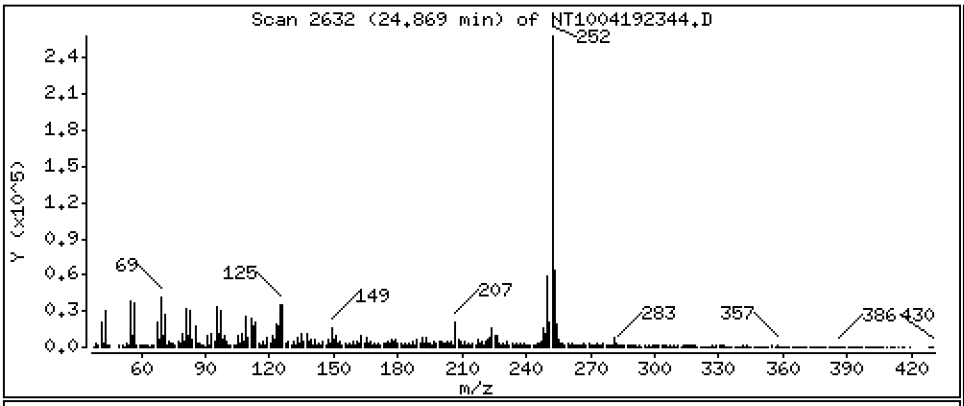
Operator: VTS

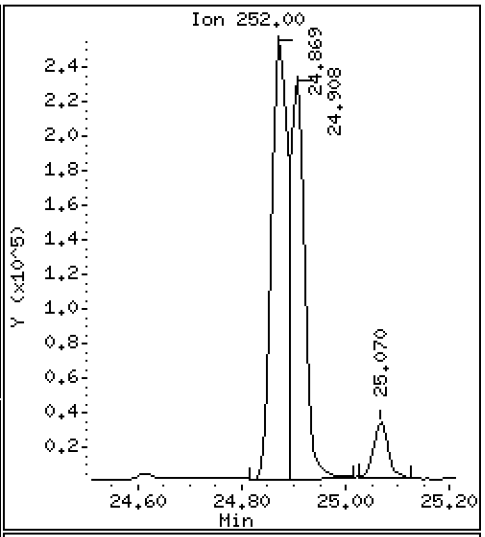
Column phase: ZB-5msi

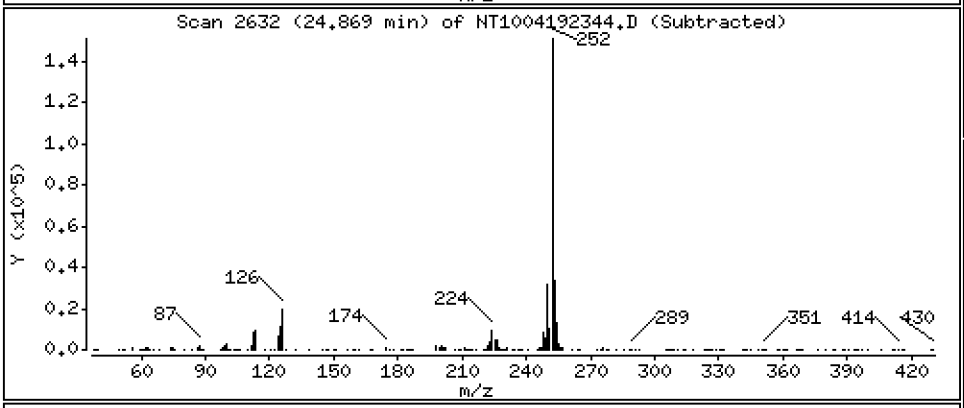
Column diameter: 0.25

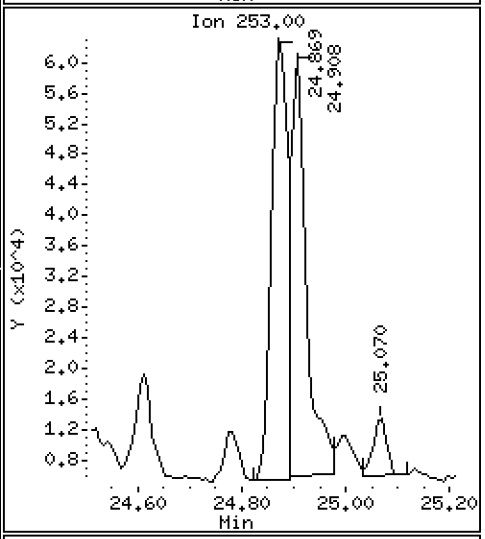
74 Benzo(b)fluoranthene

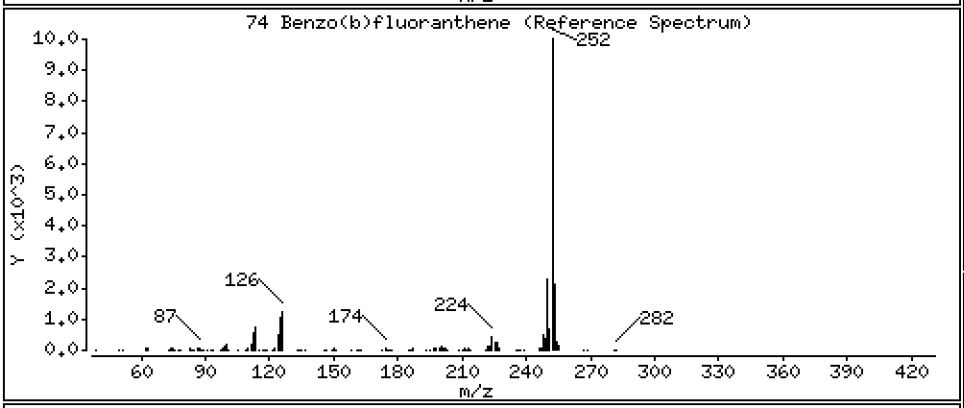
Concentration: 2.434 ug/mL

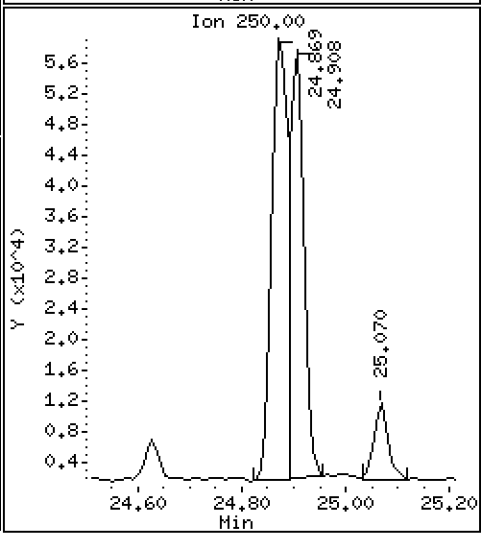


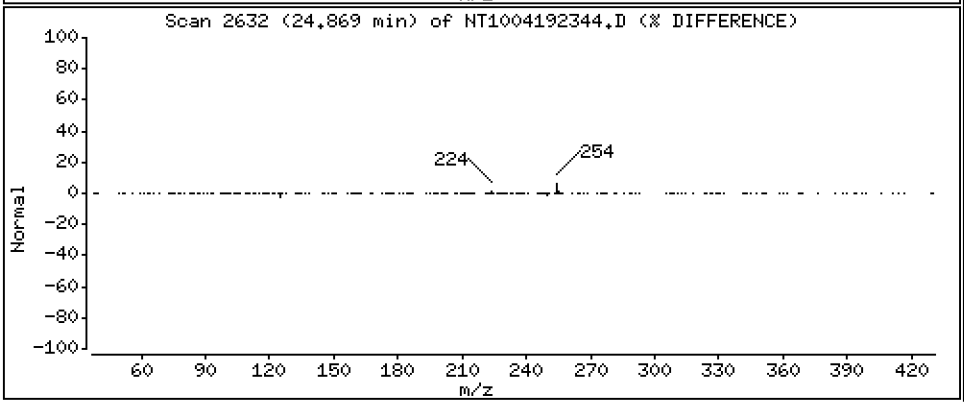












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

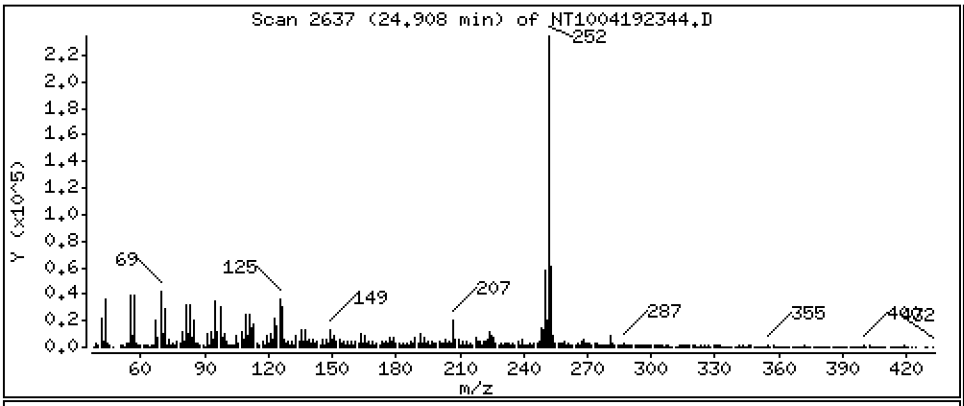
Operator: VTS

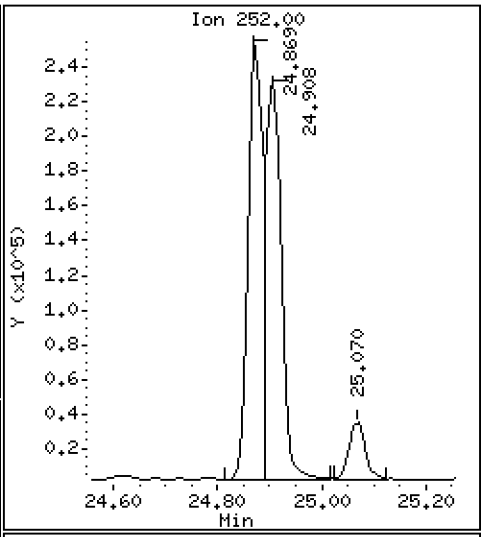
Column phase: ZB-5msi

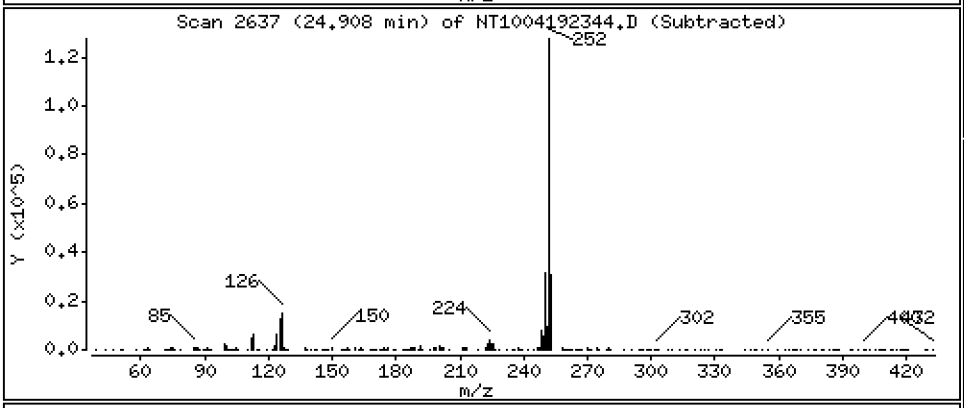
Column diameter: 0.25

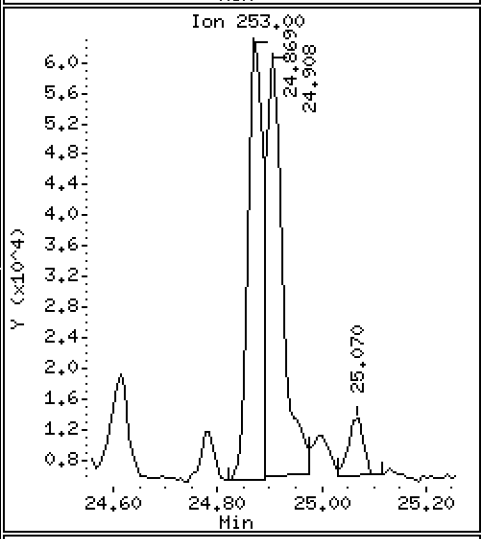
75 Benzo(k)fluoranthene

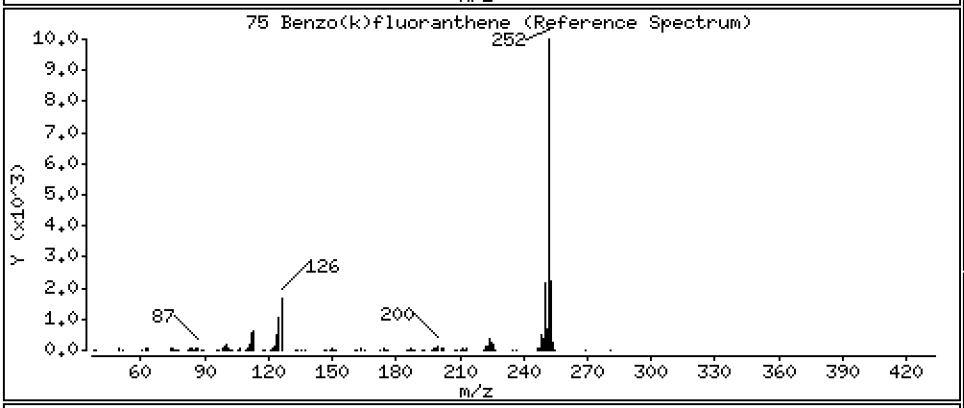
Concentration: 2.087 ug/mL

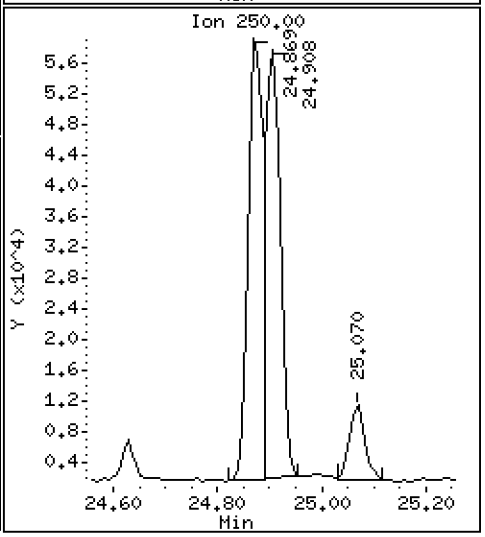


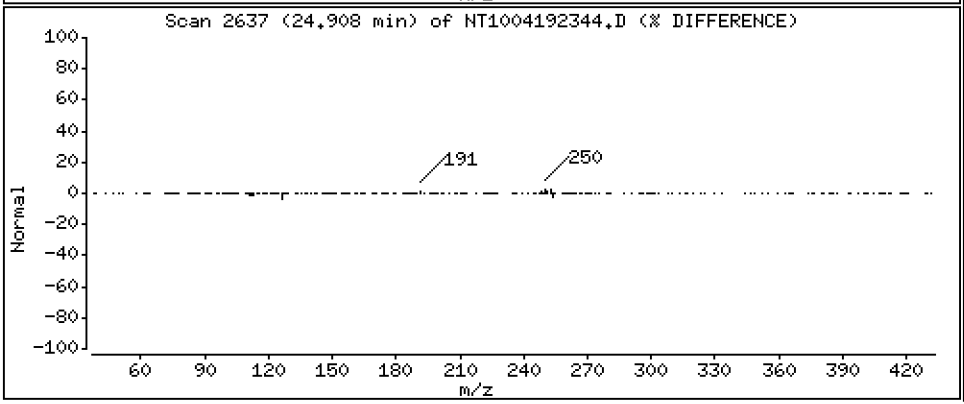












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

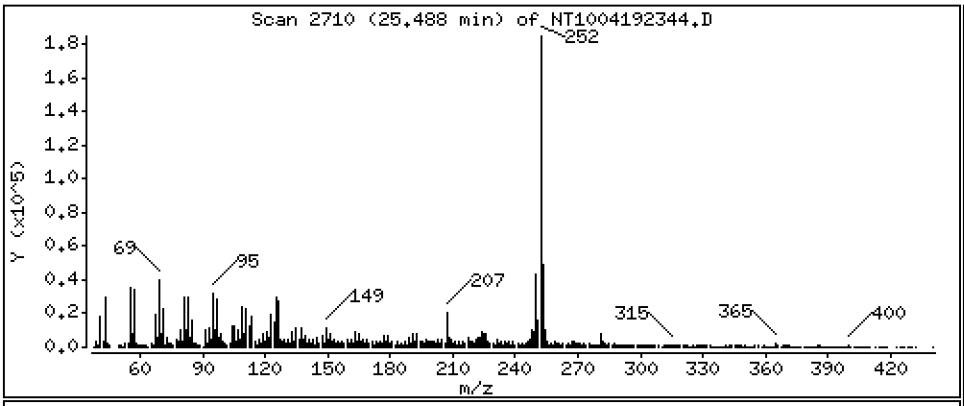
Operator: VTS

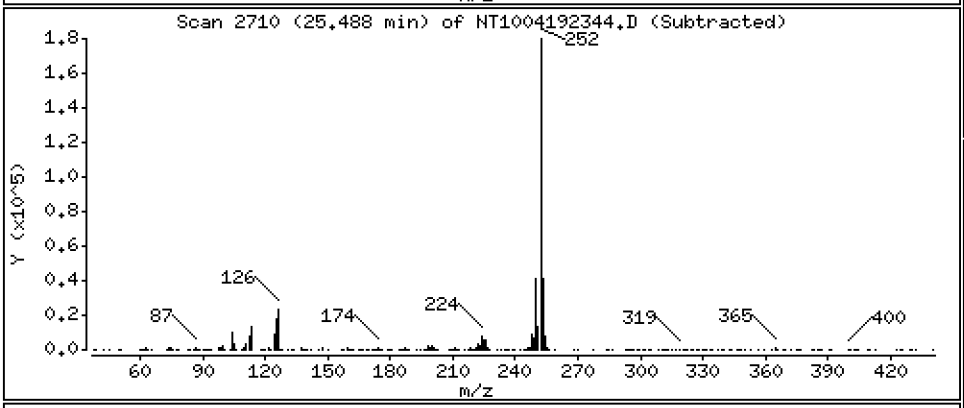
Column phase: ZB-5msi

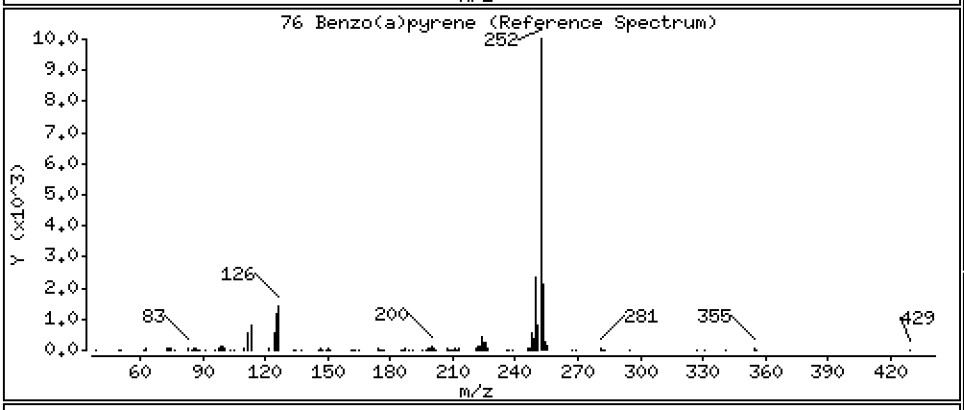
Column diameter: 0.25

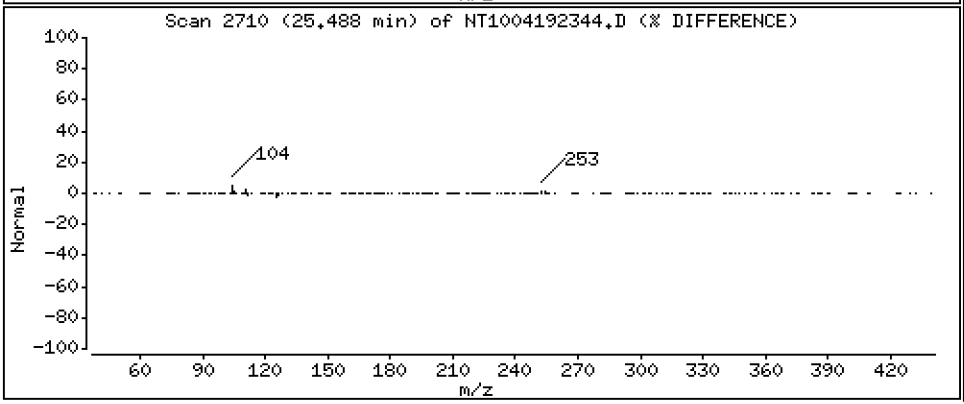
76 Benzo(a)pyrene

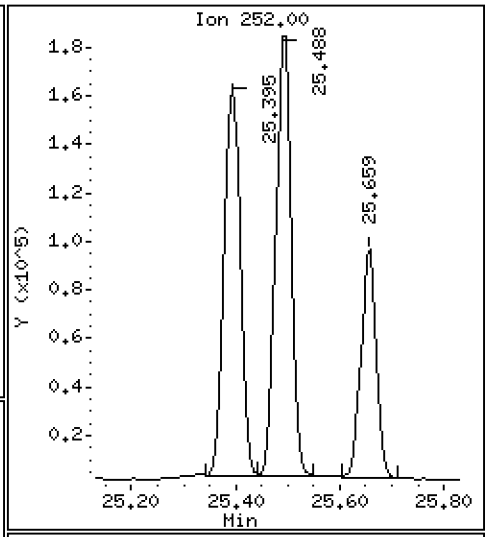
Concentration: 1.849 ug/mL

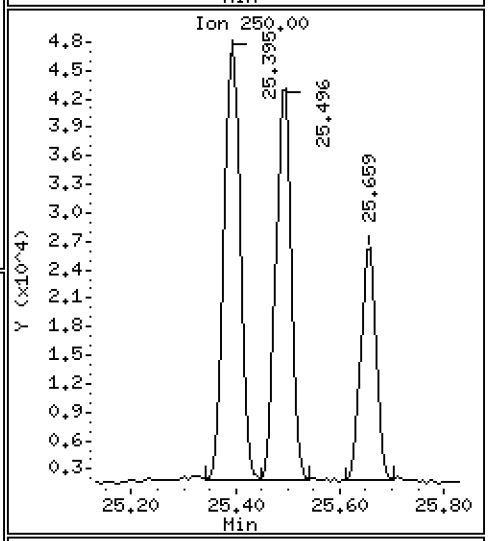


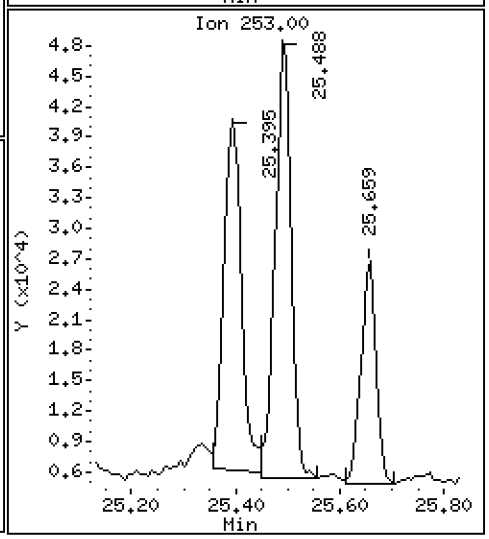












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

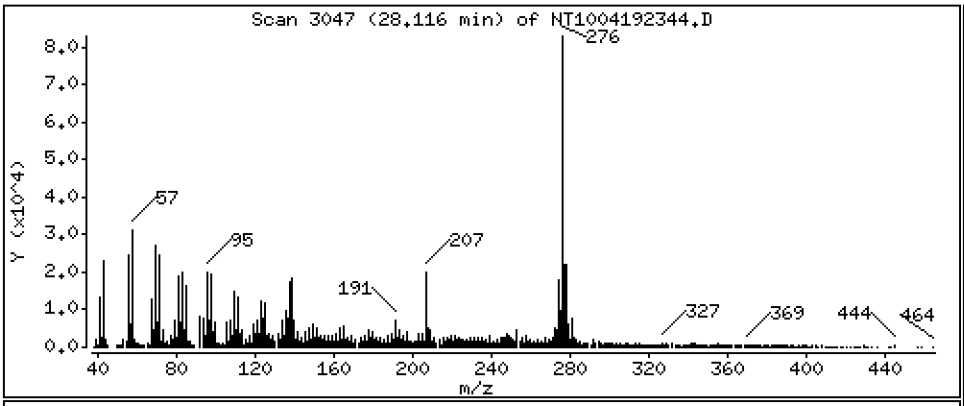
Operator: VTS

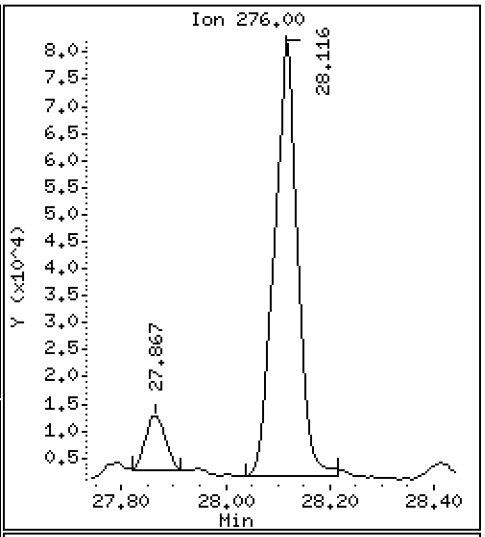
Column phase: ZB-5msi

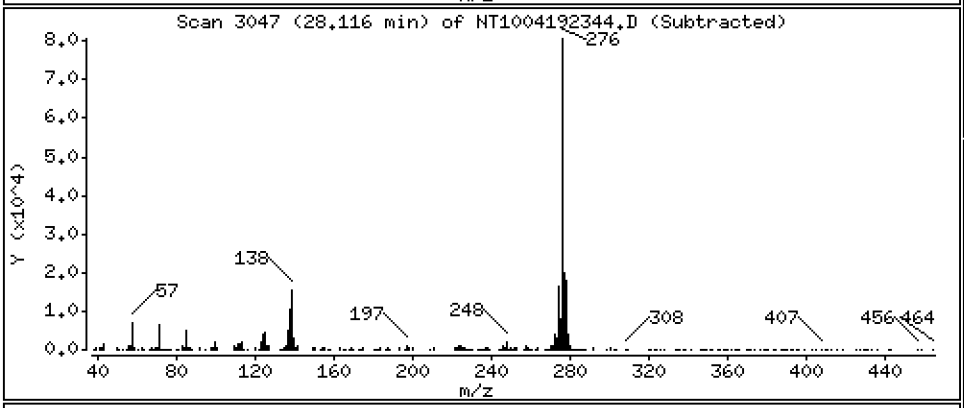
Column diameter: 0.25

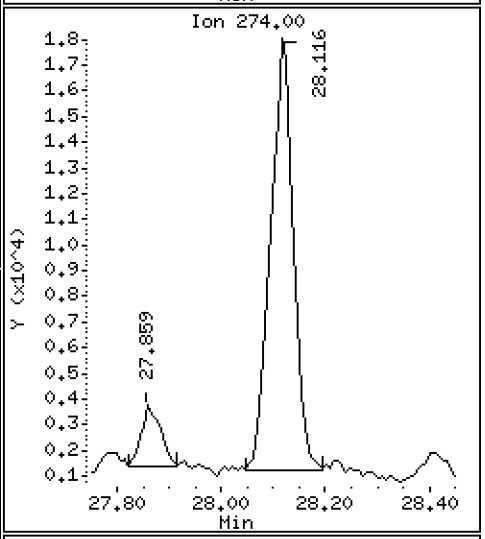
78 Indeno(1,2,3-cd)pyrene

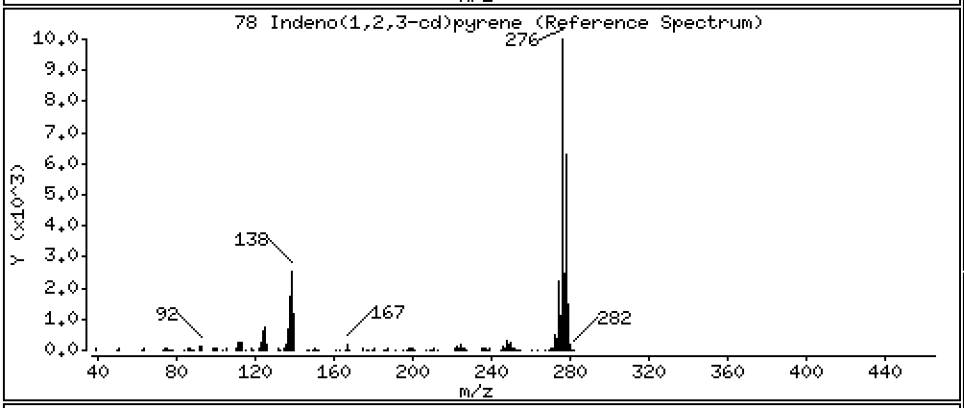
Concentration: 0.9903 ug/mL

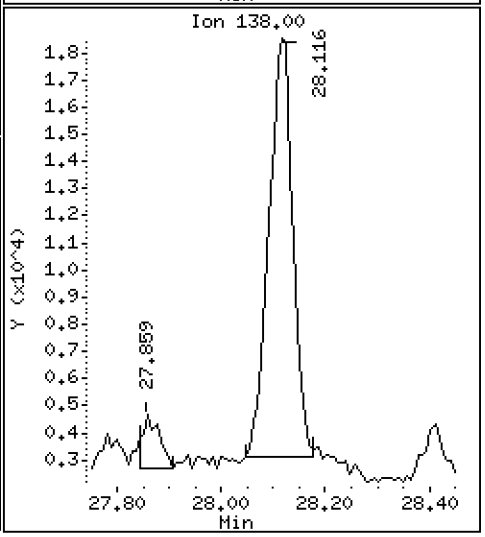


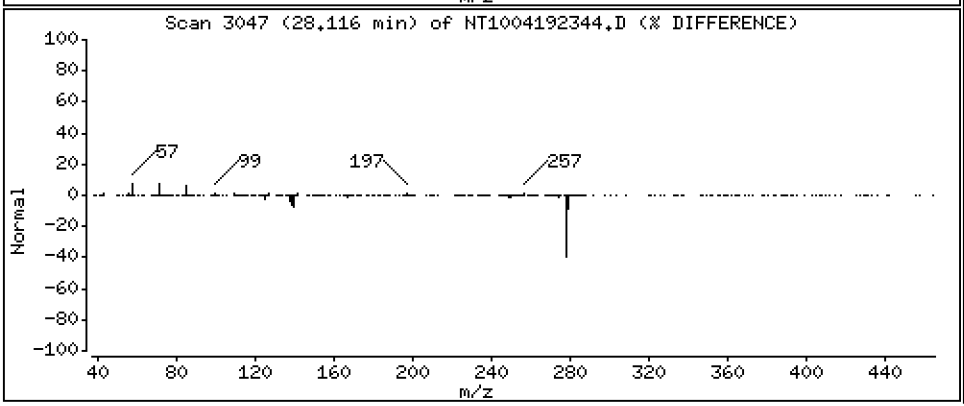












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

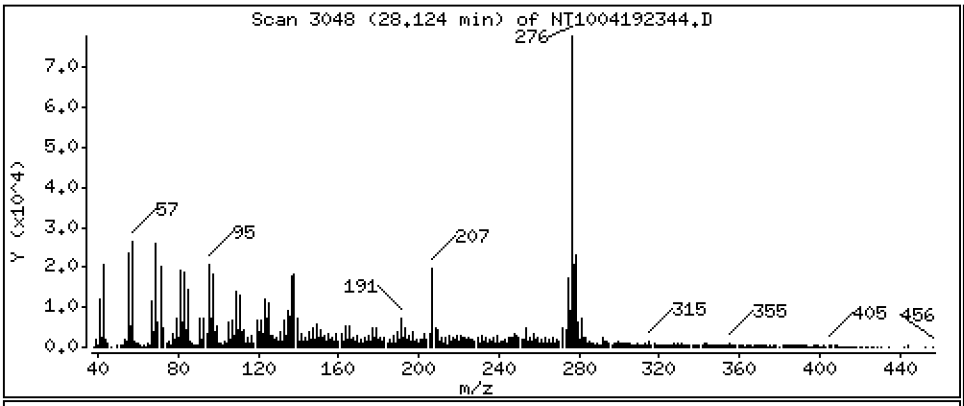
Operator: VTS

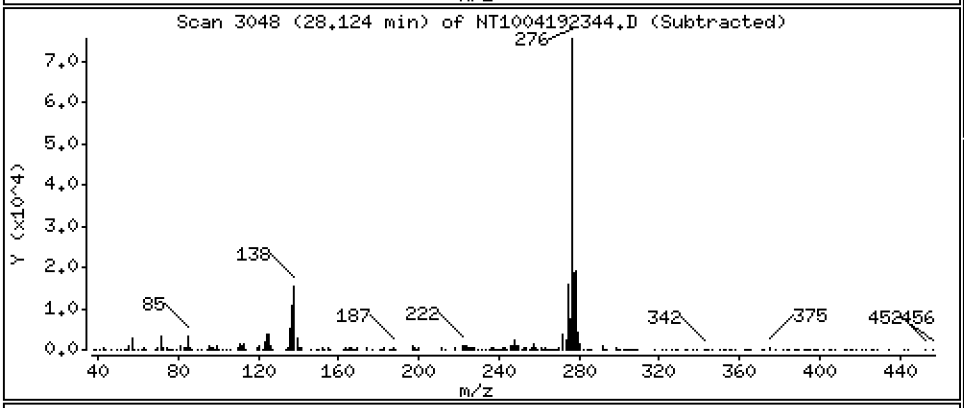
Column phase: ZB-5msi

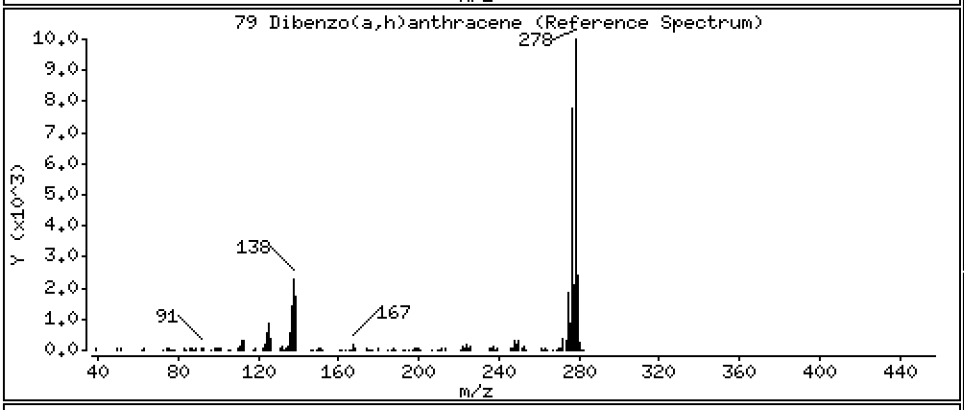
Column diameter: 0.25

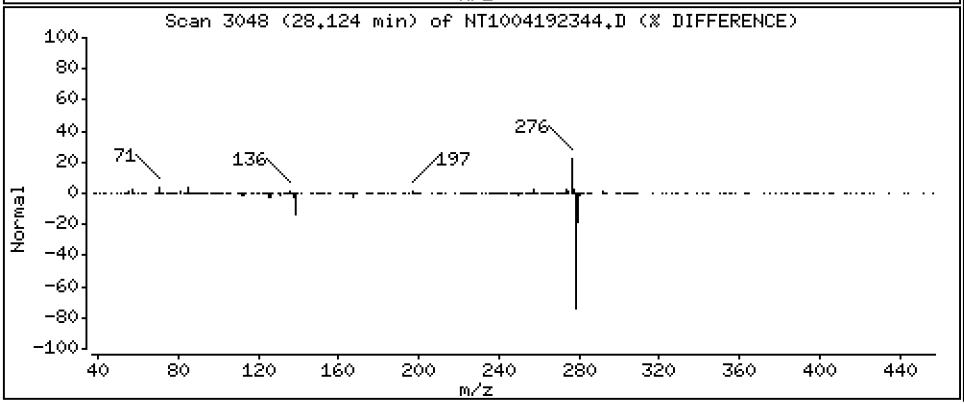
79 Dibenzo(a,h)anthracene

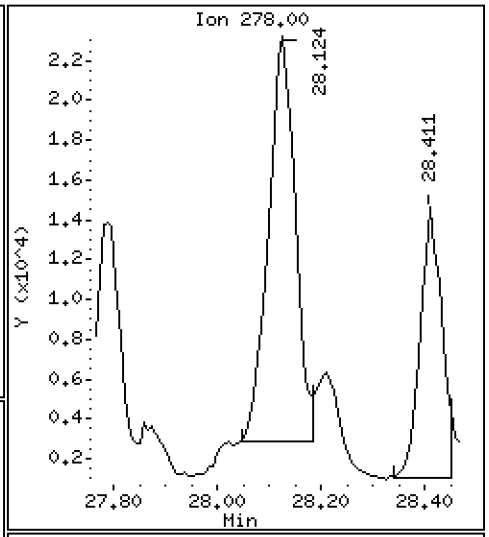
Concentration: 0.3447 ug/mL

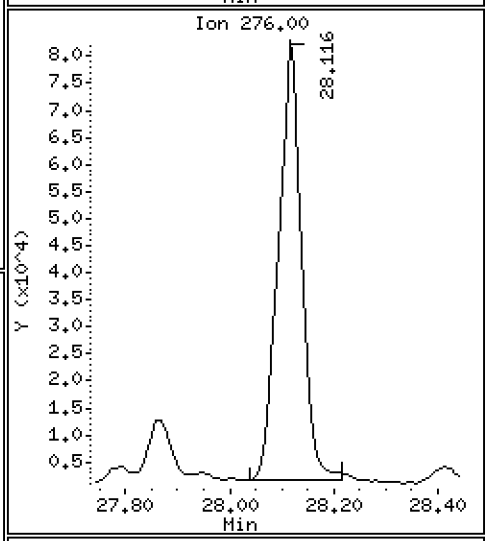


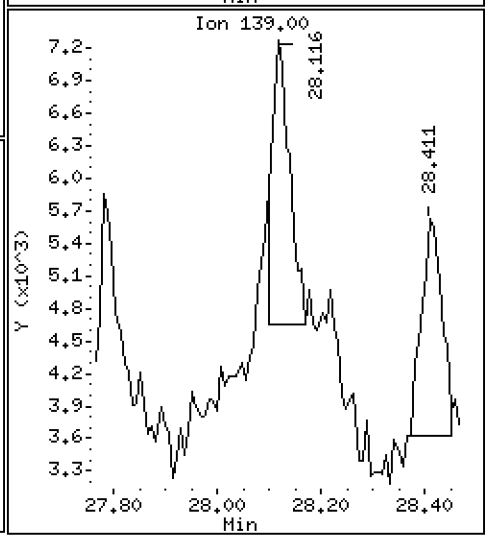












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

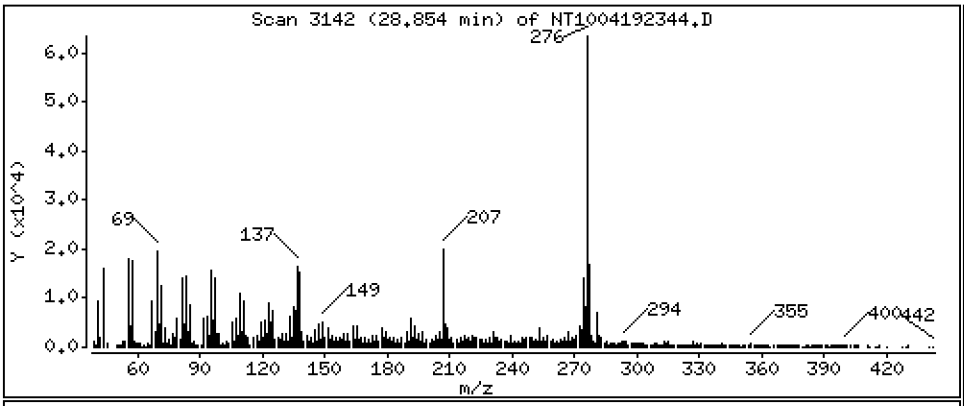
Operator: VTS

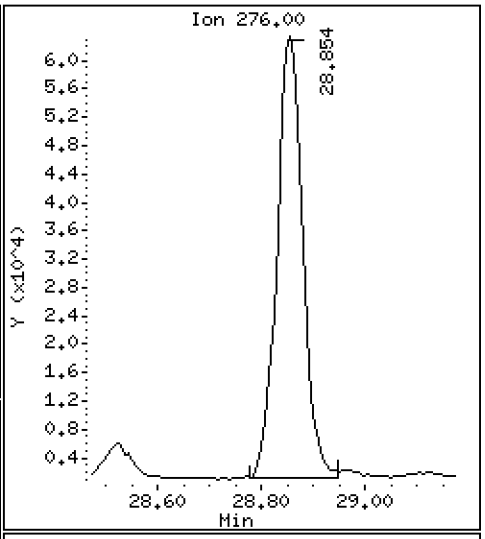
Column phase: ZB-5msi

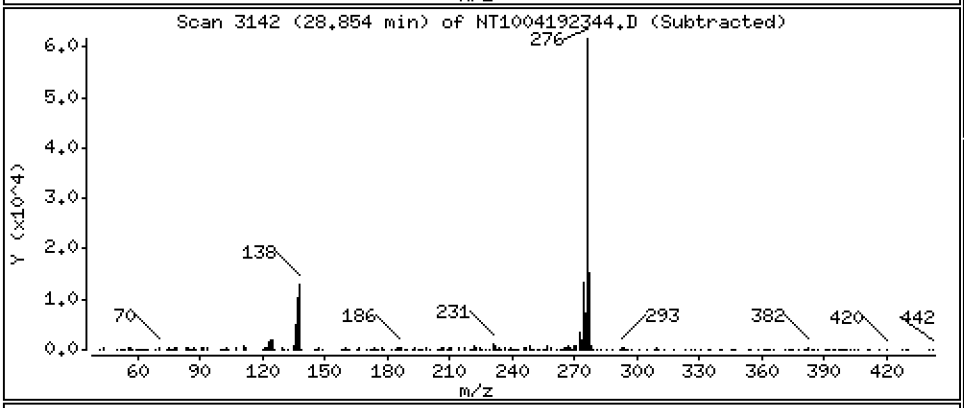
Column diameter: 0.25

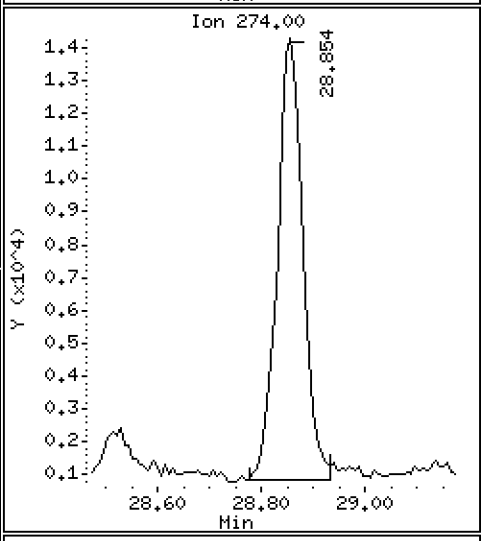
80 Benzo(g,h,i)perylene

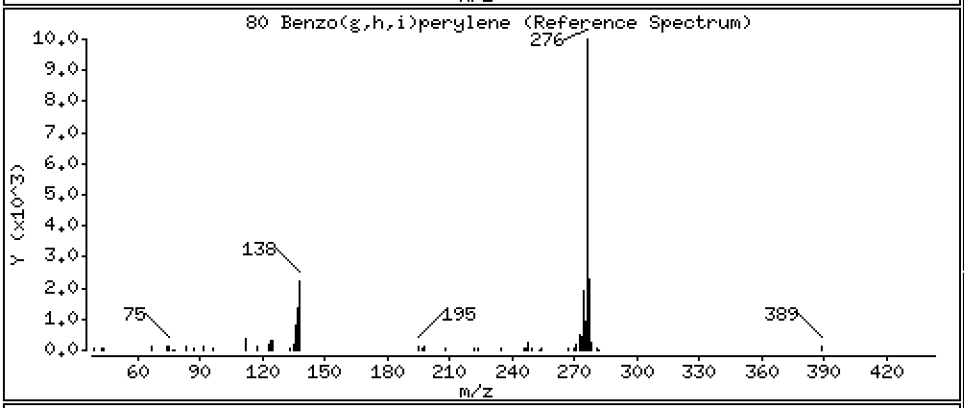
Concentration: 0.9934 ug/mL

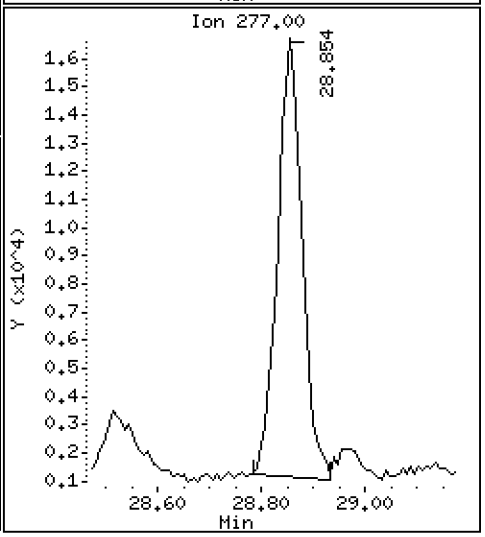


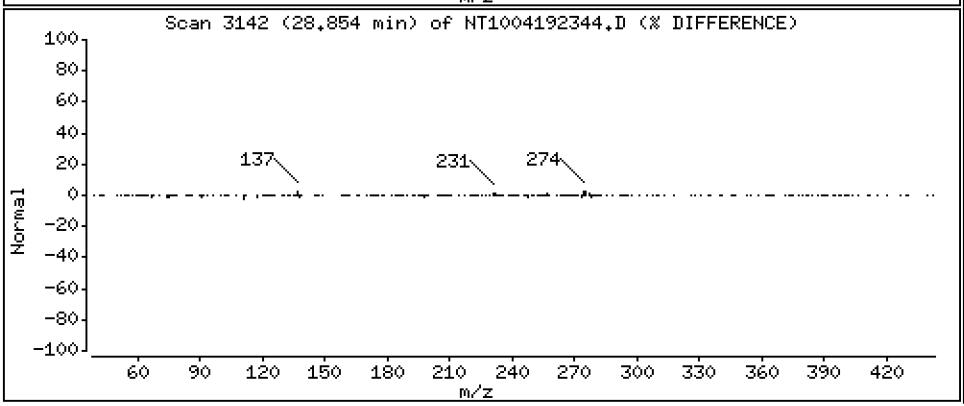












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

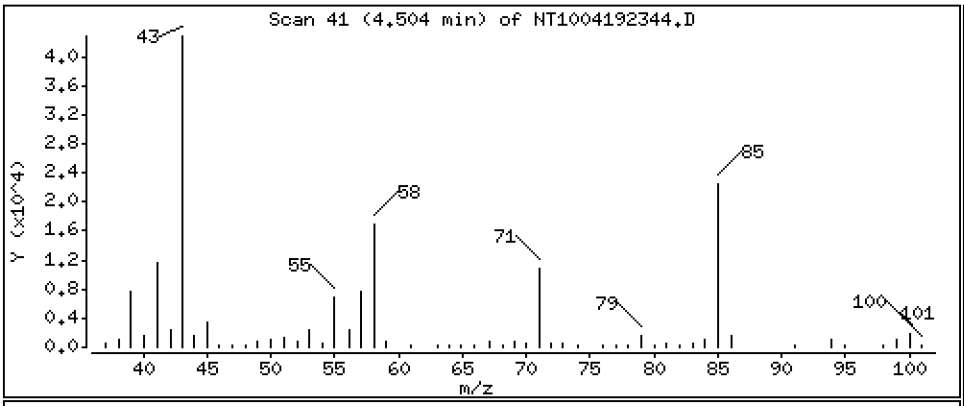
Operator: VTS

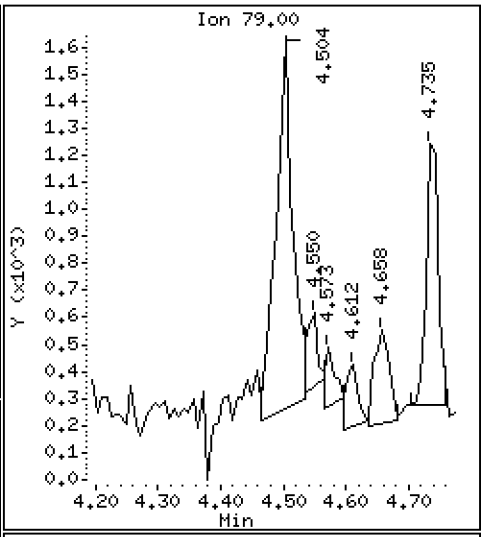
Column phase: ZB-5msi

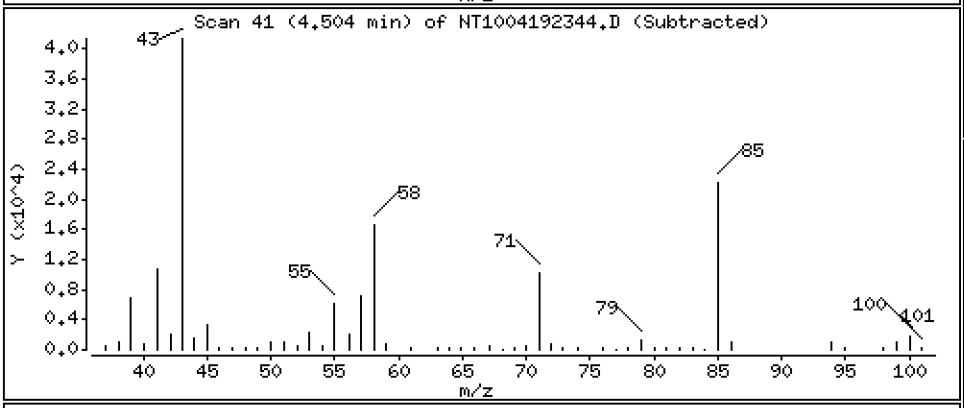
Column diameter: 0.25

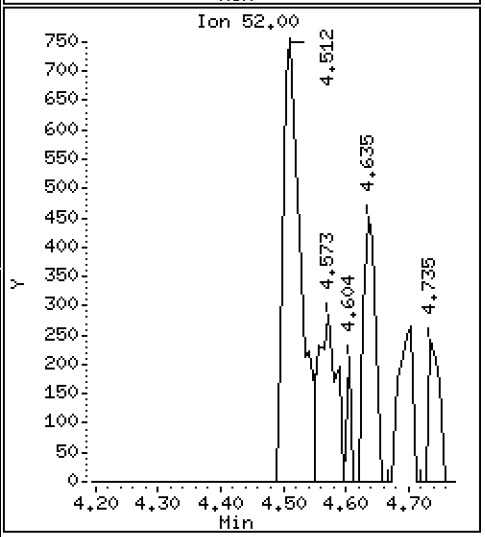
103 Pyridine

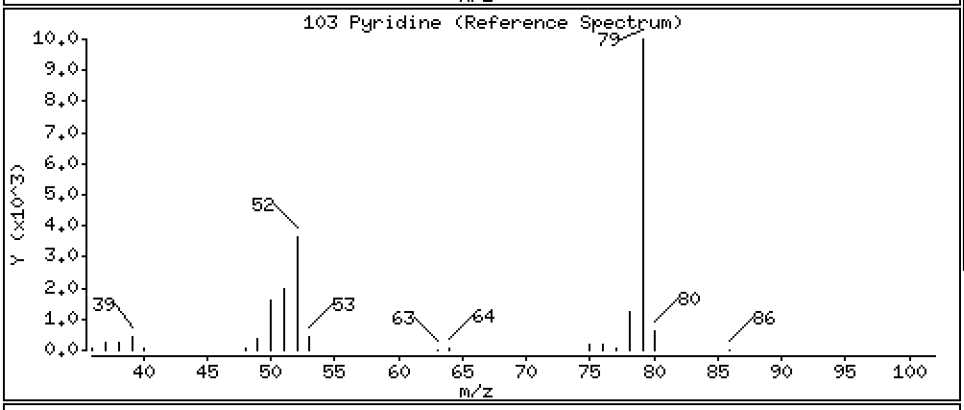
Concentration: 0.05505 ug/mL

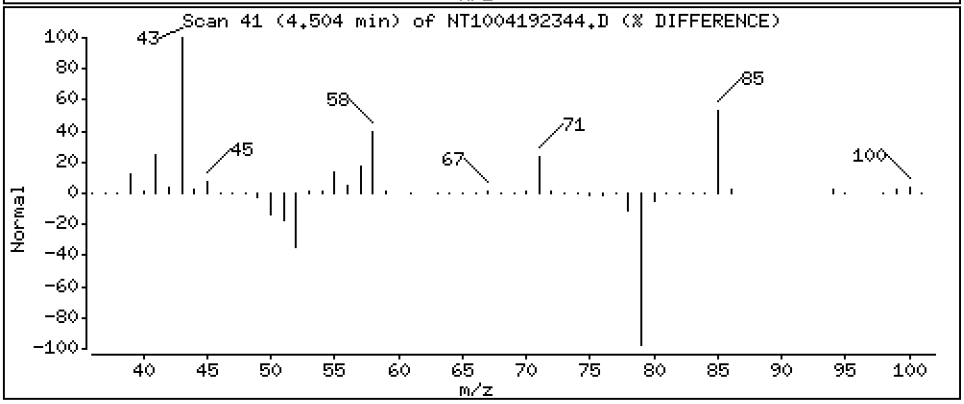












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192344.D

Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

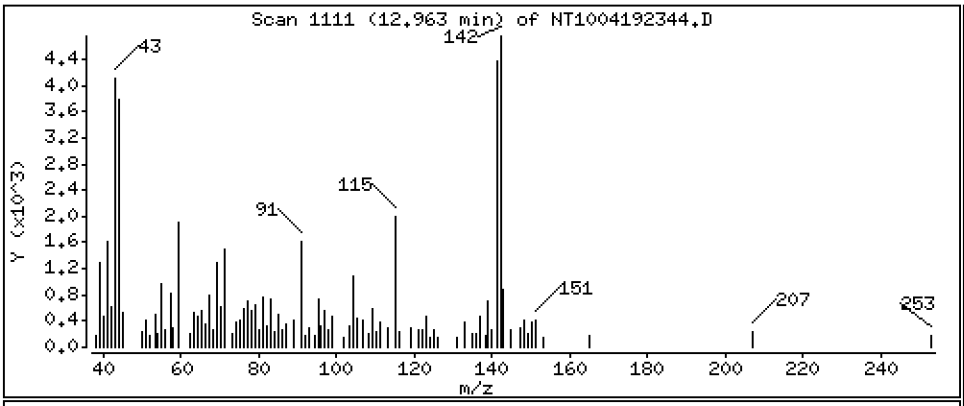
Operator: VTS

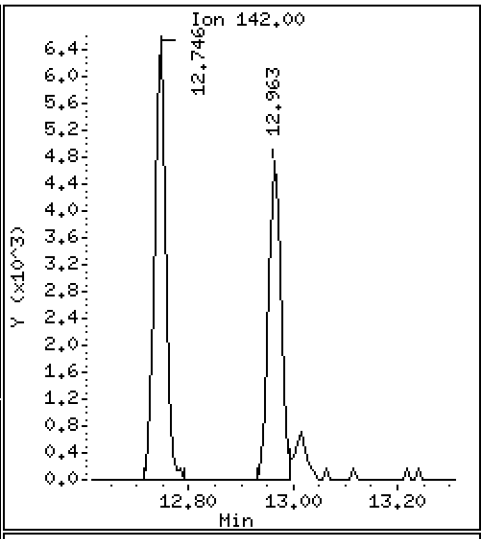
Column phase: ZB-5msi

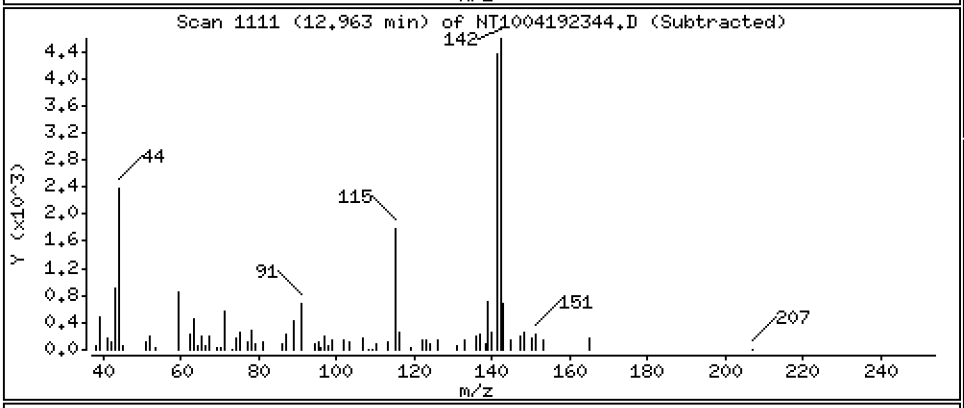
Column diameter: 0.25

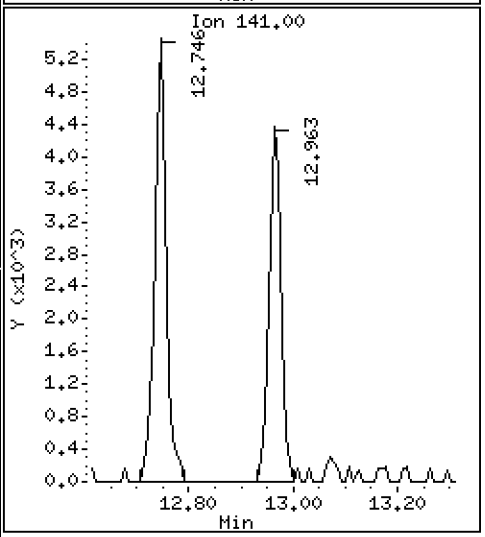
105 1-methylnaphthalene

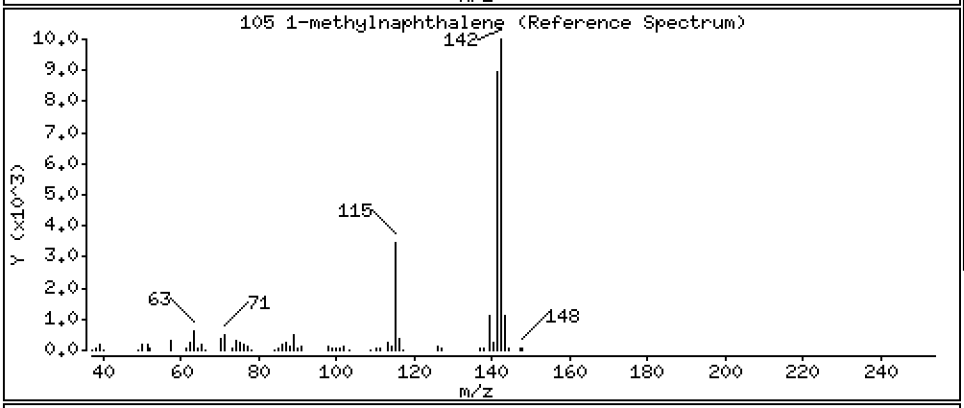
Concentration: 0.07431 ug/mL

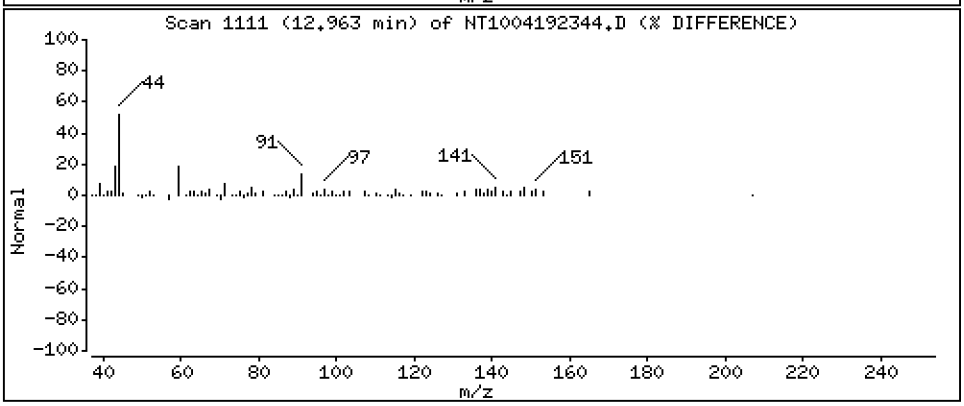












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192344.D

Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

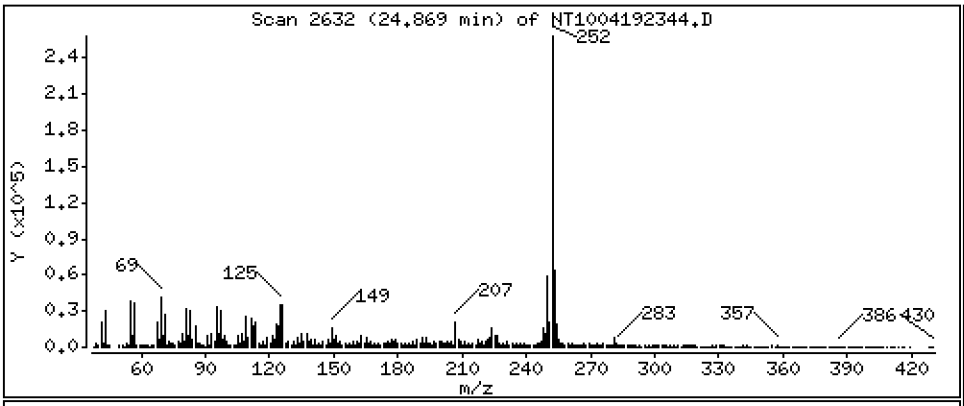
Operator: VTS

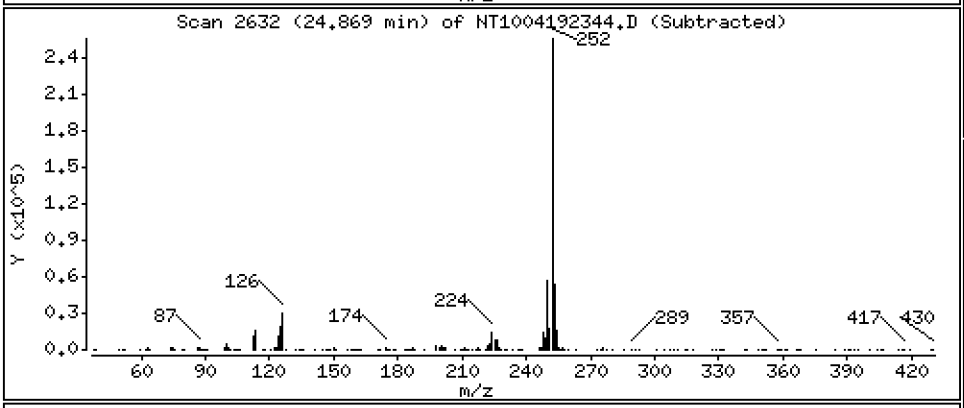
Column phase: ZB-5msi

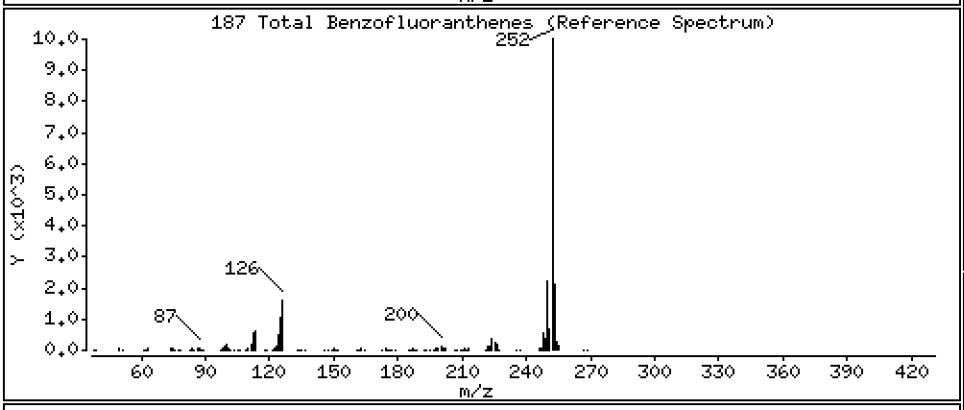
Column diameter: 0.25

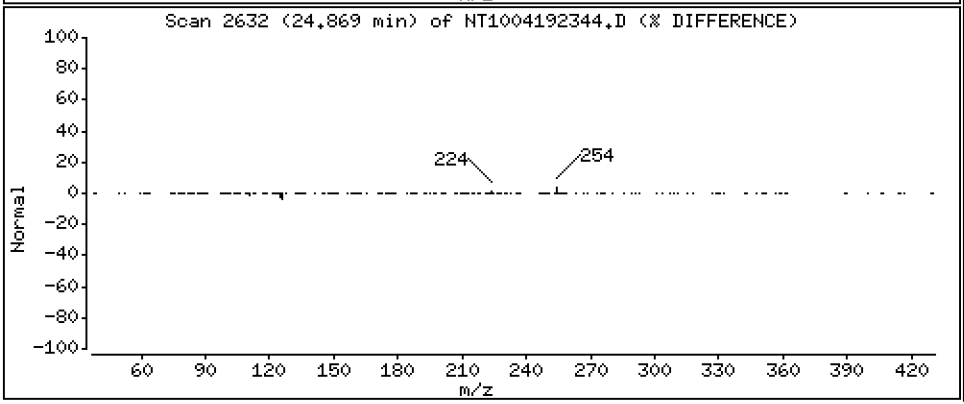
187 Total Benzofluoranthenes

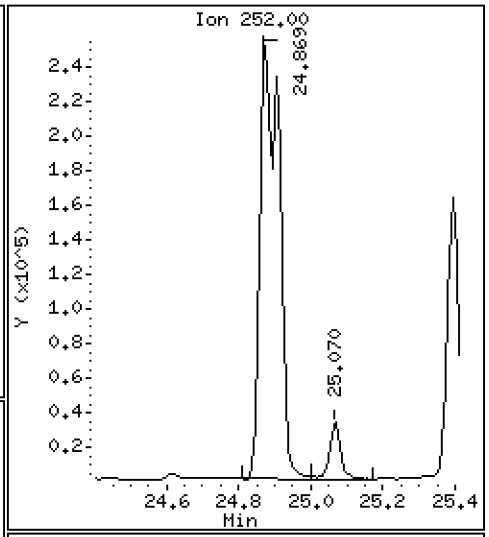
Concentration: 4.325 ug/mL

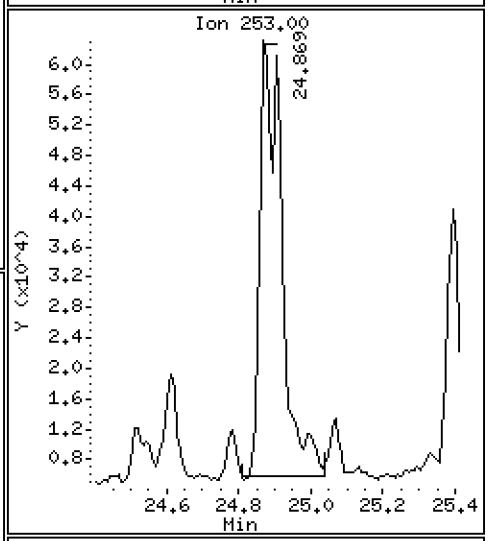


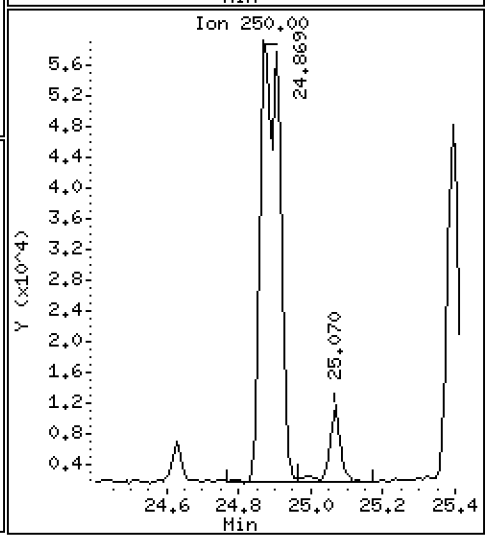












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230419B.b\NT1004192344.D
Lab Smp Id: 23C0752-04
Inj Date : 20-APR-2023 14:40
Operator : VTS Inst ID: nt10.i
Smp Info : 23C0752-04
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Meth Date : 21-Apr-2023 11:46 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.619	6.612	(0.750)	208849	4.29787	4.298
$	2 Phenol-d5	99	8.219	8.219	(0.931)	269274	4.22406	4.224
	3 Phenol	94	8.242	8.235	(0.933)	7700	0.11624	0.1162
$	5 2-Chlorophenol-d4	132	8.474	8.474	(0.960)	280584	5.15439	5.154
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	8.830	8.830	(1.000)	160687	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	9.187	9.187	(1.040)	111119	2.84240	2.842
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	9.117	9.110	(1.033)	5096	0.16390	0.1639
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	9.358	9.343	(1.060)	1025	0.02123	0.02123
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	9.630	9.622	(1.091)	2970	0.05837	0.05837
$	18 Nitrobenzene-d5	82	9.924	9.925	(0.878)	168062	2.85869	2.859
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	10.787	10.897	(0.954)	10024	0.34049	0.3405
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.307	11.307	(1.000)	582446	4.00000	
	28 Naphthalene	128	11.353	11.353	(1.004)	16742	0.10850	0.1085
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	12.745	12.746	(1.127)	9933	0.08920	0.08920
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.527	13.527	(0.907)	410054	3.05113	3.051
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	14.440	14.441	(0.968)	9827	0.08904	0.08904
	40	Acenaphthylene	152	14.603	14.603	(0.979)	14765	0.08707	0.08707
	41	2,6-Dinitrotoluene	165	14.587	14.580	(0.978)	1516	0.06358	0.06358
*	42	Acenaphthene-d10	164	14.912	14.913	(1.000)	339746	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	14.982	14.982	(1.005)	9091	0.08678	0.08678
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	15.523	15.307	(1.041)	2182	0.01412	0.01412
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	15.894	15.902	(1.066)	17089	0.15781	0.1578
	49	Fluorene	166	16.018	16.018	(1.074)	13778	0.11337	0.1134
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	16.558	16.558	(1.110)	90625	5.71184	5.712
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	17.957	17.949	(1.000)	620178	4.00000	
	60	Phenanthrene	178	18.003	17.996	(1.003)	156783	0.92711	0.9271
	61	Anthracene	178	18.096	18.089	(1.008)	56156	0.34617	0.3462
	62	Carbazole	167	18.436	18.429	(1.027)	18252	0.12556	0.1256
	63	Di-n-butylphthalate	149	19.272	19.265	(1.073)	9175	0.04694	0.04694
	64	Fluoranthene	202	20.425	20.402	(0.886)	559252	2.32900	2.329
	65	Pyrene	202	20.843	20.827	(0.904)	596329	2.42090	2.421
$	66	Terphenyl-d14	244	21.144	21.137	(0.917)	518695	2.80397	2.804
	67	Butylbenzylphthalate	149	22.089	22.089	(0.958)	12419	0.14361	0.1436
	68	Benzo(a)anthracene	228	23.018	23.019	(0.999)	329453	1.56188	1.562
*	69	Chrysene-d12	240	23.049	23.042	(1.000)	597598	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.096	23.088	(1.002)	450472	2.18593	2.186
	72	bis(2-Ethylhexyl)phthalate	149	23.142	23.135	(0.959)	112861	0.84648	0.8465
*	134	Di-n-octylphthalate-d4	153	24.125	24.126	(1.000)	911232	4.00000	
	73	Di-n-octylphthalate	149	Compound Not Detected.					
	74	Benzo(b)fluoranthene	252	24.868	24.861	(0.971)	549574	2.43374	2.434
	75	Benzo(k)fluoranthene	252	24.907	24.908	(0.972)	478506	2.08685	2.087
	76	Benzo(a)pyrene	252	25.488	25.481	(0.995)	373218	1.84861	1.849
*	77	Perylene-d12	264	25.612	25.589	(1.000)	696634	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.115	28.092	(1.098)	254370	0.99033	0.9903
	79	Dibenzo(a,h)anthracene	278	28.123	28.116	(1.098)	73504	0.34469	0.3447
	80	Benzo(g,h,i)perylene	276	28.853	28.822	(1.127)	220812	0.99337	0.9934
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	4.503	4.426	(0.510)	2621	0.05505	0.05505
	105	1-methylnaphthalene	142	12.962	12.962	(1.146)	7581	0.07431	0.07431
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	24.868	24.908	(0.971)	942945	4.32485	4.325
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192344.D
Lab Smp Id: 23C0752-04
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Misc Info:

Calibration Date: 20-APR-2023
Calibration Time: 07:41
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	129725	64863	259450	160687	23.87
27 Naphthalene-d8	475671	237836	951342	582446	22.45
42 Acenaphthene-d10	277889	138945	555778	339746	22.26
59 Phenanthrene-d10	485346	242673	970692	620178	27.78
69 Chrysene-d12	453075	226538	906150	597598	31.90
134 Di-n-octylphthala	697265	348633	1394530	911232	30.69
77 Perylene-d12	538138	269069	1076276	696634	29.45

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.83	8.33	9.33	8.83	-0.00
27 Naphthalene-d8	11.31	10.81	11.81	11.31	-0.00
42 Acenaphthene-d10	14.91	14.41	15.41	14.91	-0.00
59 Phenanthrene-d10	17.95	17.45	18.45	17.96	0.04
69 Chrysene-d12	23.04	22.54	23.54	23.05	0.03
134 Di-n-octylphthala	24.13	23.63	24.63	24.13	-0.00
77 Perylene-d12	25.59	25.09	26.09	25.61	0.09

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

REVIEW SUMMARY FOR FILE - NT1004192344.D

Lab ID: 23C0752-04
nt10.i, 20230419B.b\ABN.m,   20-APR-2023 14:40

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.954	0.964	-0.0098	Benzoic acid
1.041	1.026	0.0145	Dibenzofuran
0.510	0.501	0.0087	Pyridine

RRT check based on Ccal File: NT1004192333.D

On Column LOD for nt10.i, 20230419B.b\ABN.m, ICAL.sub = 0.0000

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

LDW23-SS1809

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

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

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-06 A	SDG:	23C0752
Sampled:	03/30/23 14:30	Prepared:	04/03/23 11:31	File ID:	NT1004192347.D
% Solids:	46.72	Preparation:	EPA 3546 (Microwave)	Analyzed:	04/20/23 16:34
Batch:	BLD0008	Sequence:	SLD0293	Initial/Final:	21.43 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00046
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
108-95-2	Phenol	1	12.7	J	4.4	20.0
106-44-5	4-Methylphenol	1	8.0	J	7.4	20.0
91-20-3	Naphthalene	1	14.2	J	4.2	20.0
91-57-6	2-Methylnaphthalene	1	10.1	J	4.5	20.0
208-96-8	Acenaphthylene	1	14.7	J	6.2	20.0
131-11-3	Dimethylphthalate	1	20.0	U	4.4	20.0
83-32-9	Acenaphthene	1	10.4	J	5.2	20.0
132-64-9	Dibenzofuran	1	20.0	U	14.1	20.0
86-73-7	Fluorene	1	18.4	J	14.6	20.0
85-01-8	Phenanthrene	1	160		8.7	20.0
120-12-7	Anthracene	1	157		7.2	20.0
206-44-0	Fluoranthene	1	460	Q	6.1	20.0
129-00-0	Pyrene	1	336	Q	5.7	20.0
85-68-7	Butylbenzylphthalate	1	20.0	U	9.4	20.0
56-55-3	Benzo(a)anthracene	1	505		6.0	20.0
218-01-9	Chrysene	1	560		6.1	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	108		5.5	49.9
	Benzofluoranthenes, Total	1	768		10.0	40.0
50-32-8	Benzo(a)pyrene	1	323		4.2	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	118		14.6	20.0
53-70-3	Dibenzo(a,h)anthracene	1	48.7		17.2	20.0
191-24-2	Benzo(g,h,i)perylene	1	103	Q	13.6	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	749.09	337	45.0	27 - 120	
Phenol-d5	749.09	372	49.6	29 - 120	
2-Chlorophenol-d4	749.09	415	55.5	31 - 120	
1,2-Dichlorobenzene-d4	499.40	178	35.6	32 - 120	
Nitrobenzene-d5	499.40	227	45.5	30 - 120	
2-Fluorobiphenyl	499.40	295	59.0	35 - 120	

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1809

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

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

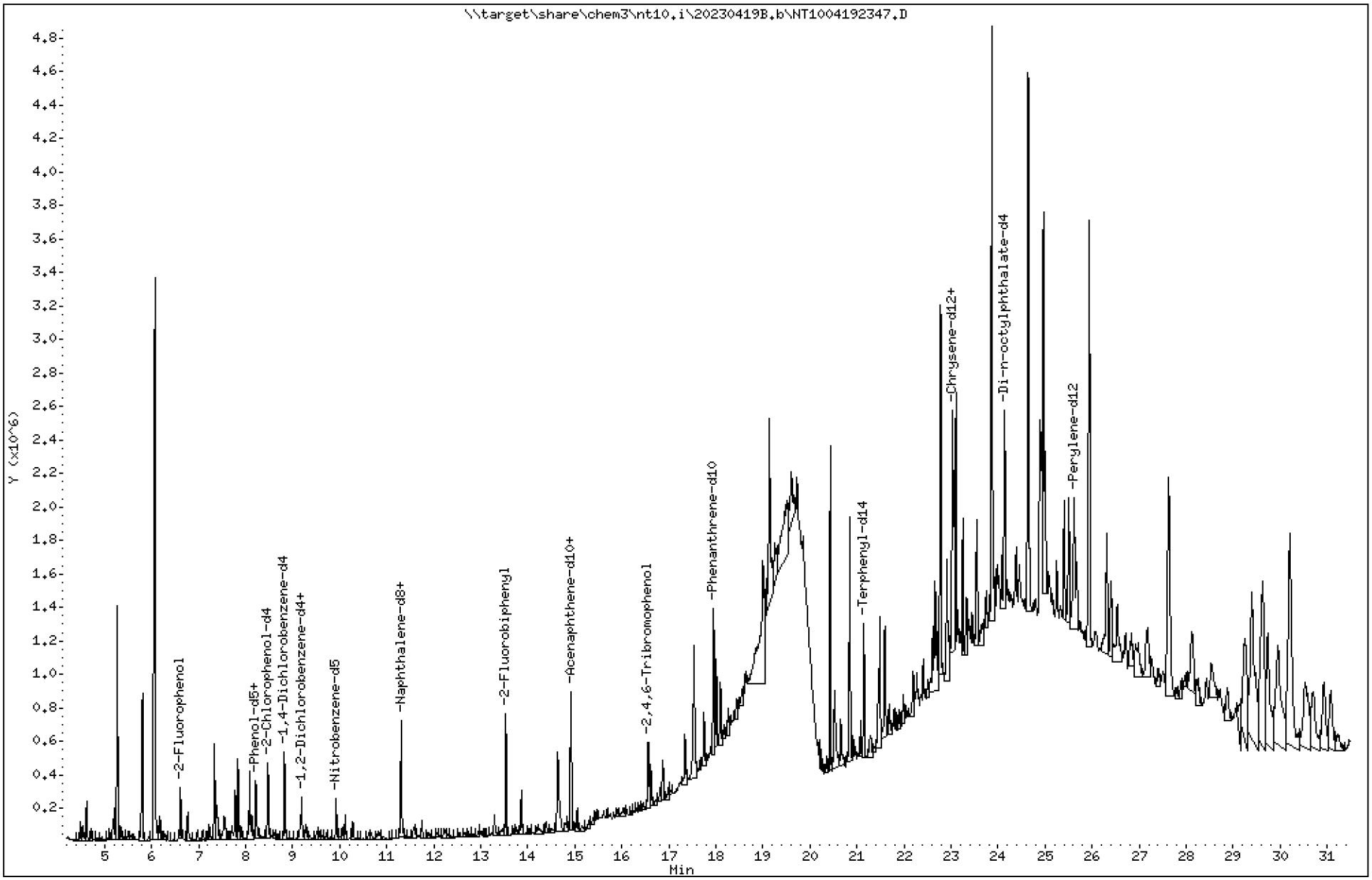
Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-06 A	SDG:	23C0752
Sampled:	03/30/23 14:30	Prepared:	04/03/23 11:31	File ID:	NT1004192347.D
% Solids:	46.72	Preparation:	EPA 3546 (Microwave)	Analyzed:	04/20/23 16:34
Batch:	BLD0008	Sequence:	SLD0293	Initial/Final:	21.43 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00046
Cleanups:	GPC				

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2,4,6-Tribromophenol	749.09	553	73.8	24 - 134	
p-Terphenyl-d14	499.40	268	53.7	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192347.D
Date : 20-APR-2023 16:34
Client ID:
Sample Info: 23C0752-06

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

Column phase: ZB-5msi



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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

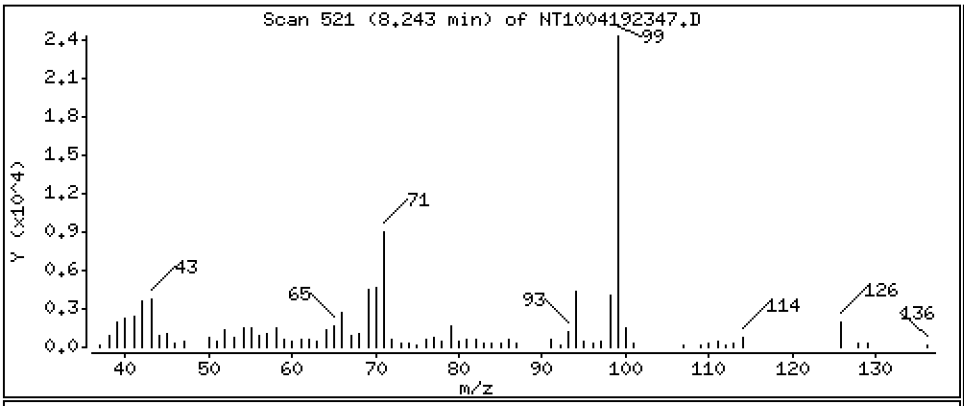
Operator: VTS

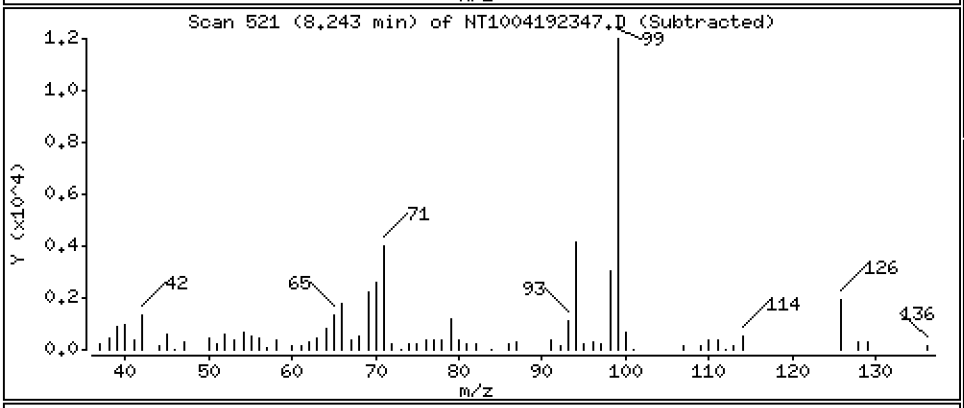
Column phase: ZB-5msi

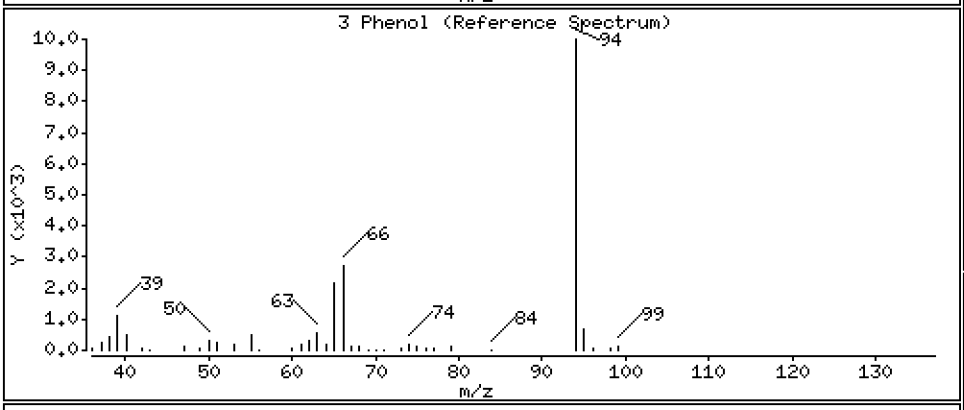
Column diameter: 0.25

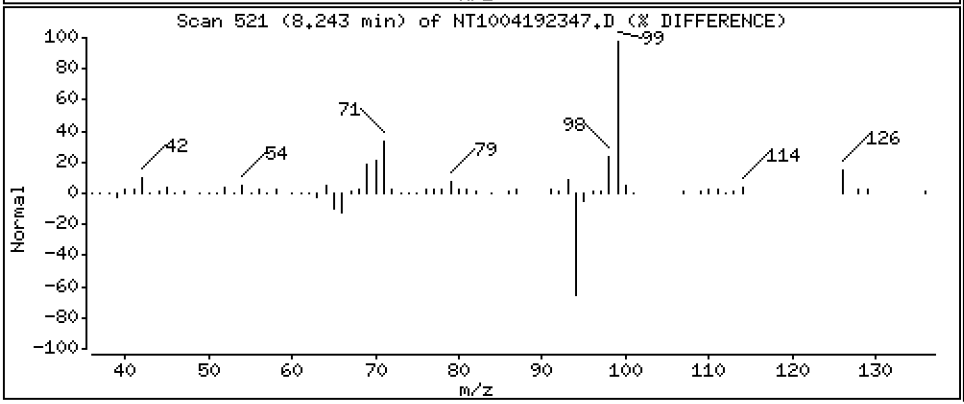
3 Phenol

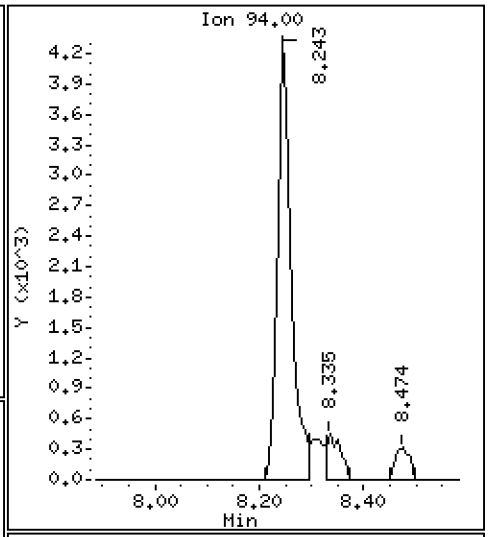
Concentration: 0.1271 ug/mL

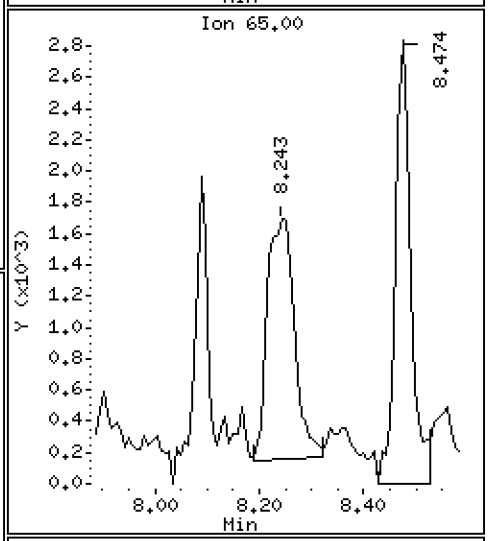


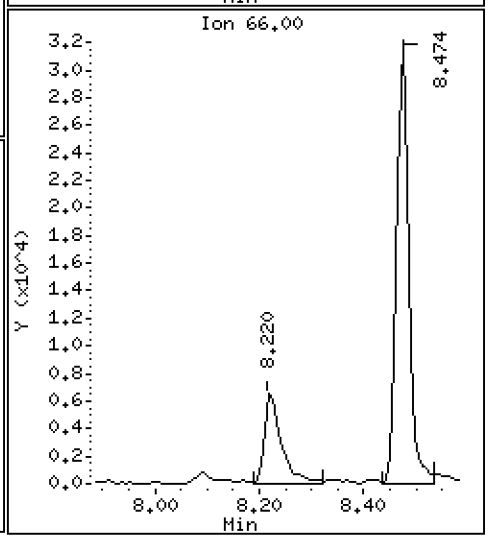












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

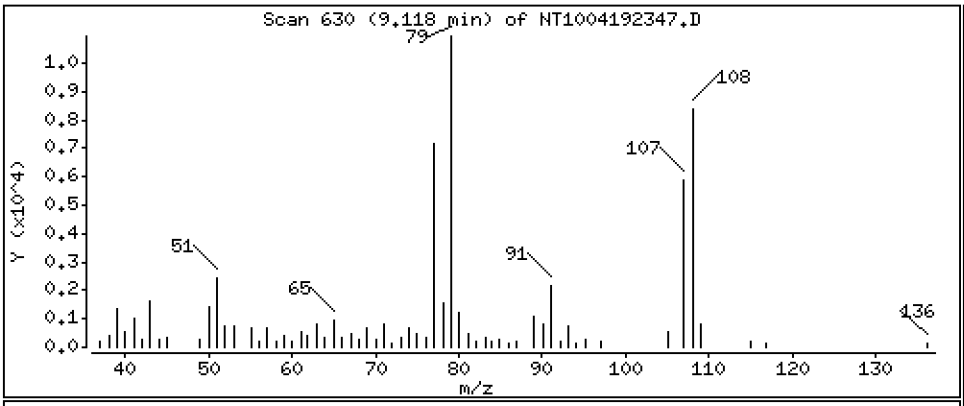
Operator: VTS

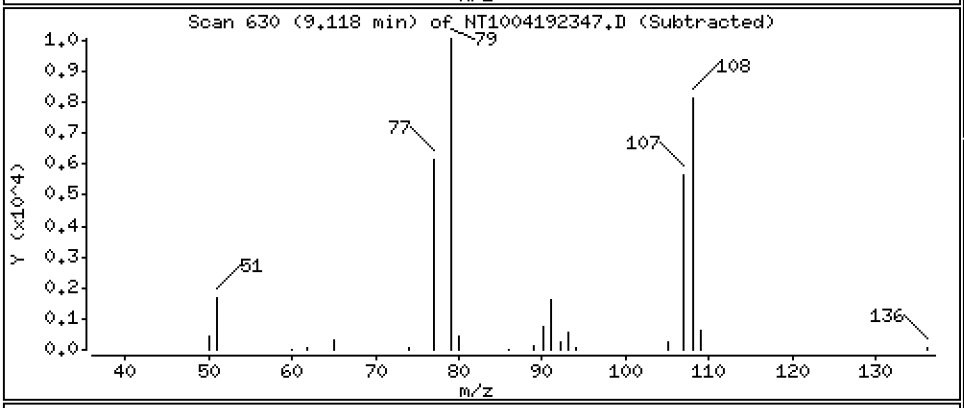
Column phase: ZB-5msi

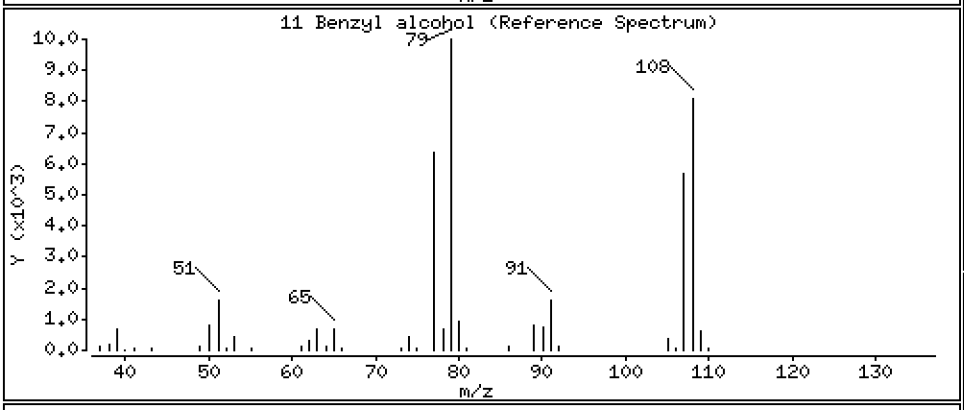
Column diameter: 0.25

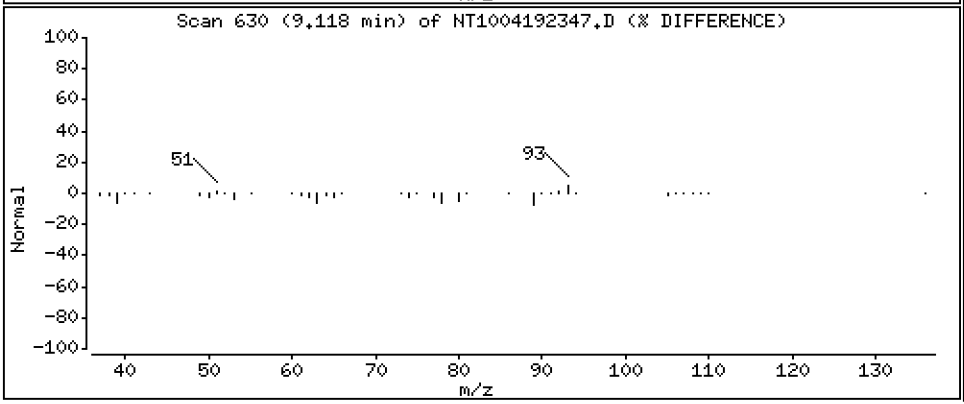
11 Benzyl alcohol

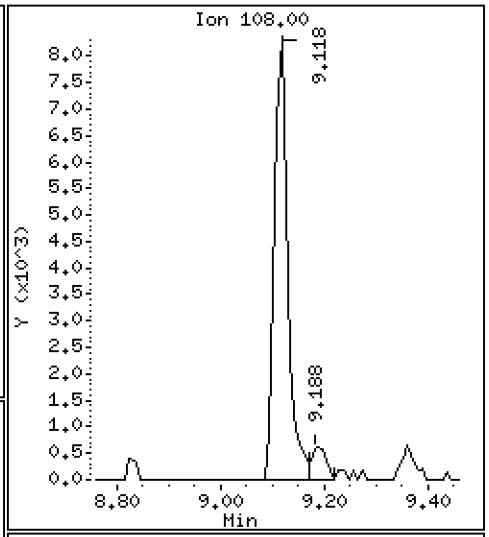
Concentration: 0.4831 ug/mL

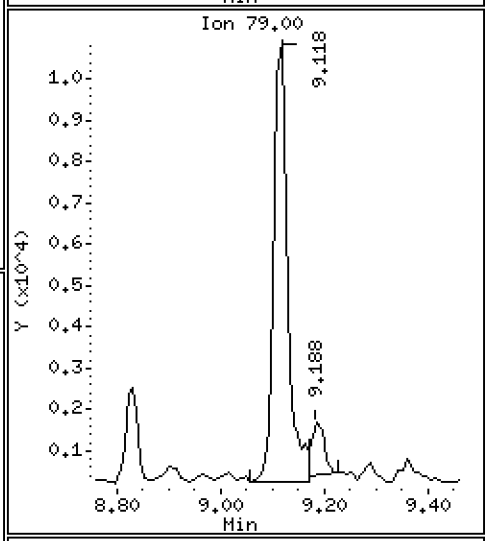


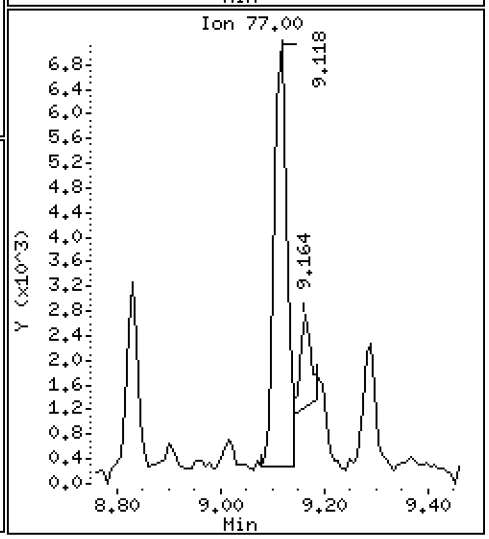












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

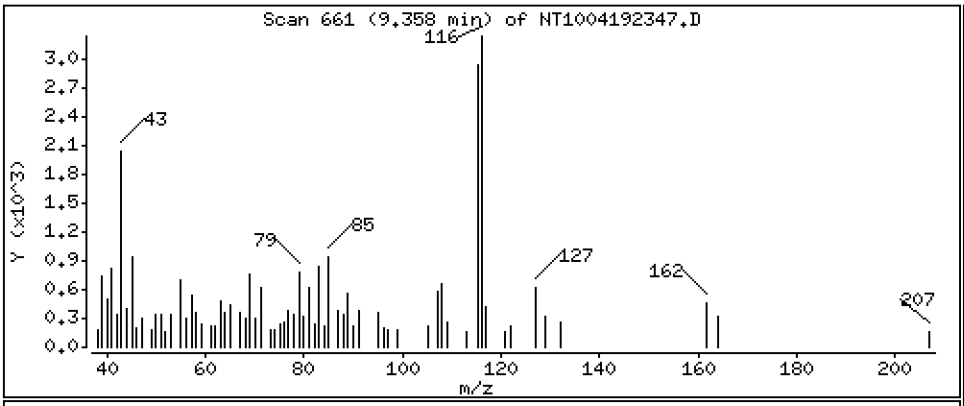
Operator: VTS

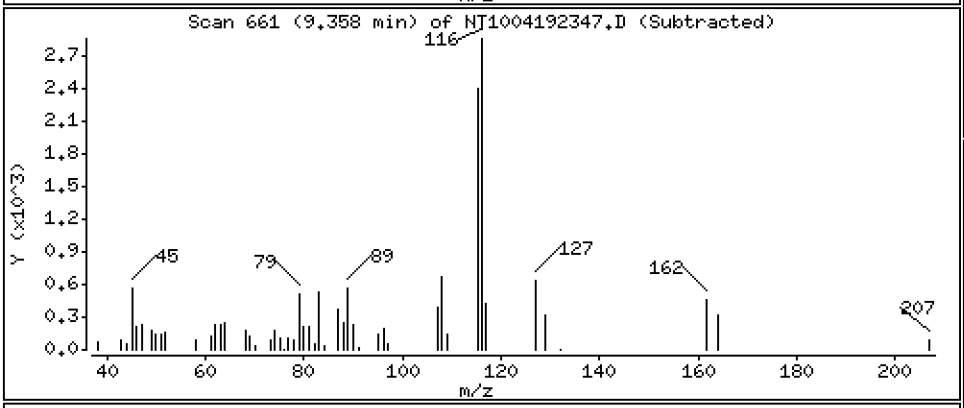
Column phase: ZB-5msi

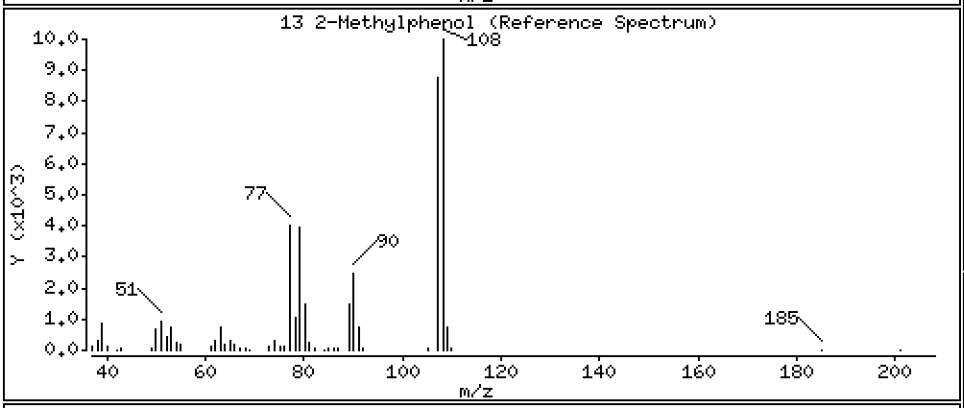
Column diameter: 0.25

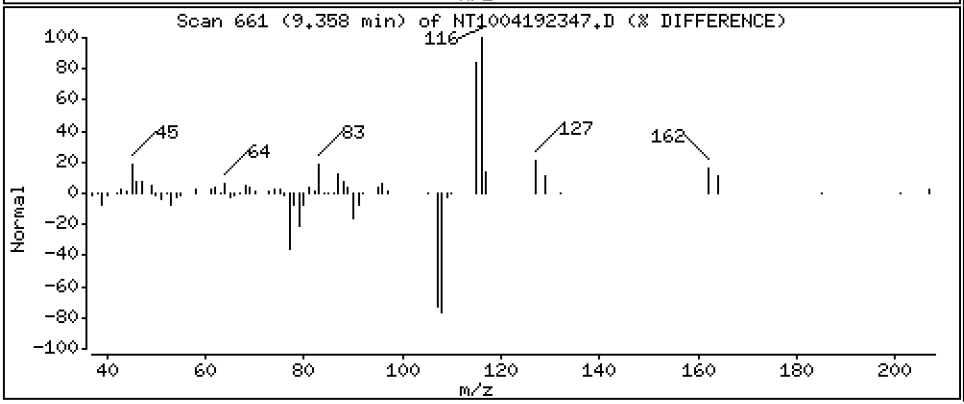
13 2-Methylphenol

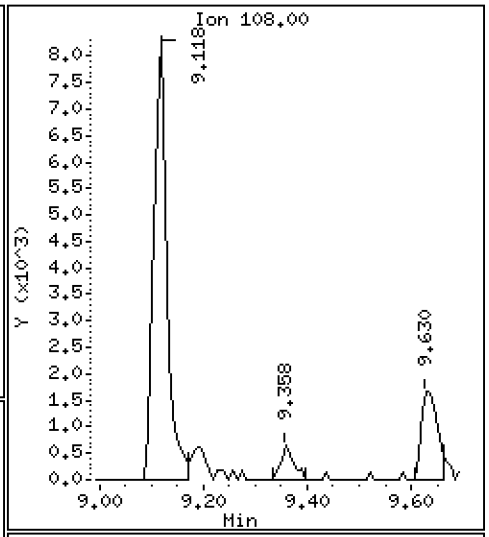
Concentration: 0.02442 ug/mL

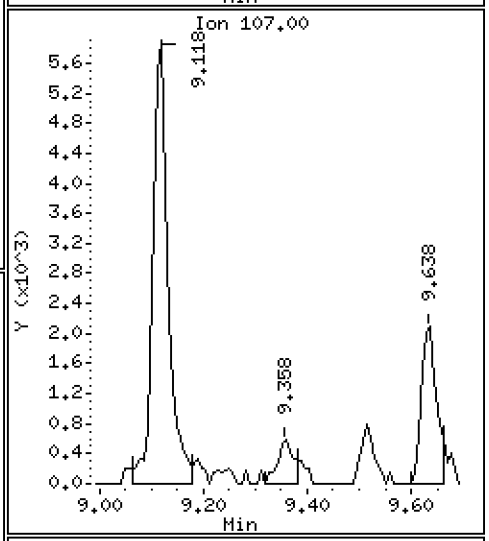


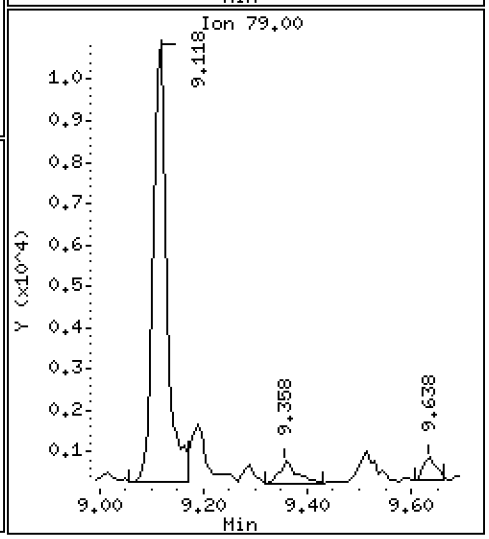












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

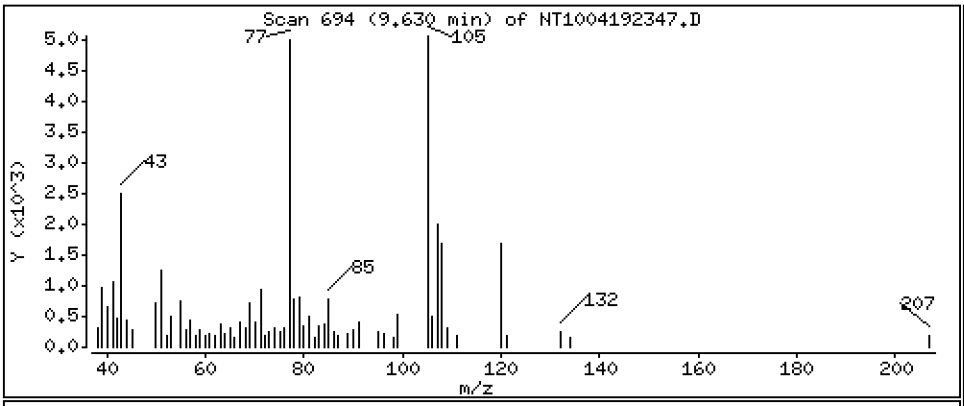
Operator: VTS

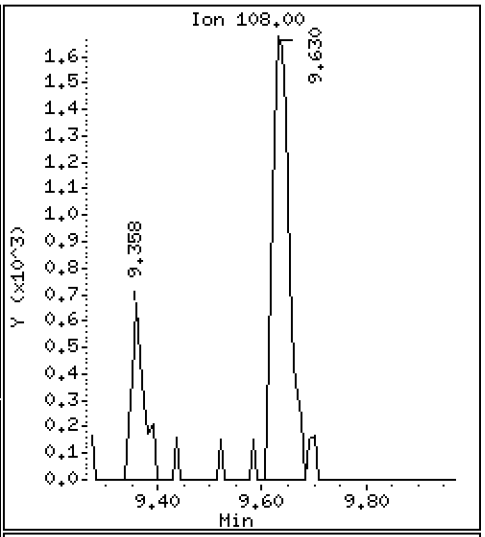
Column phase: ZB-5msi

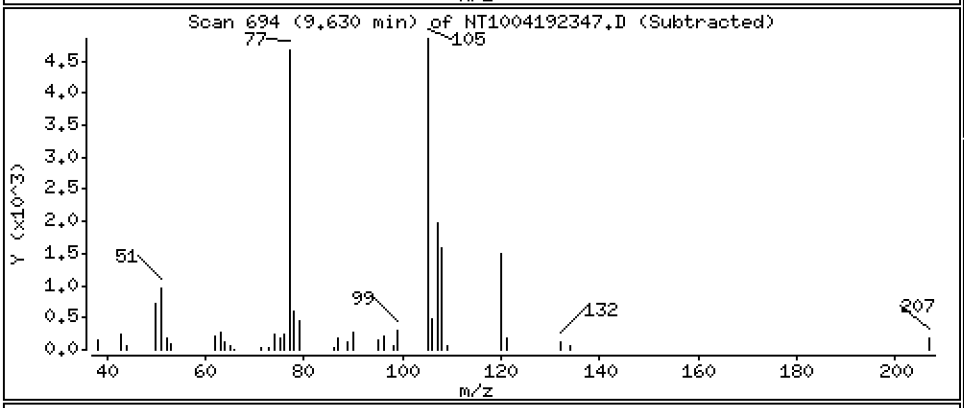
Column diameter: 0.25

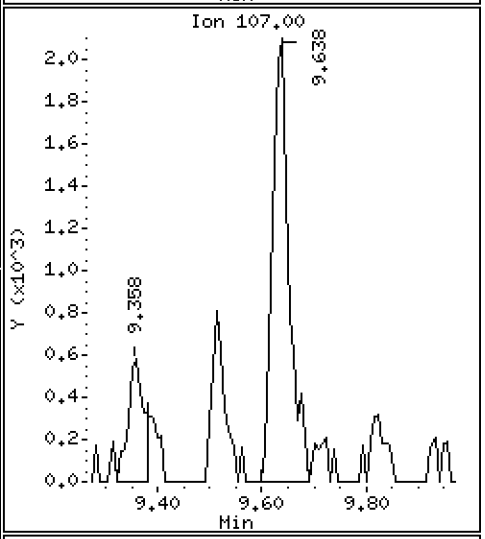
15 4-Methylphenol

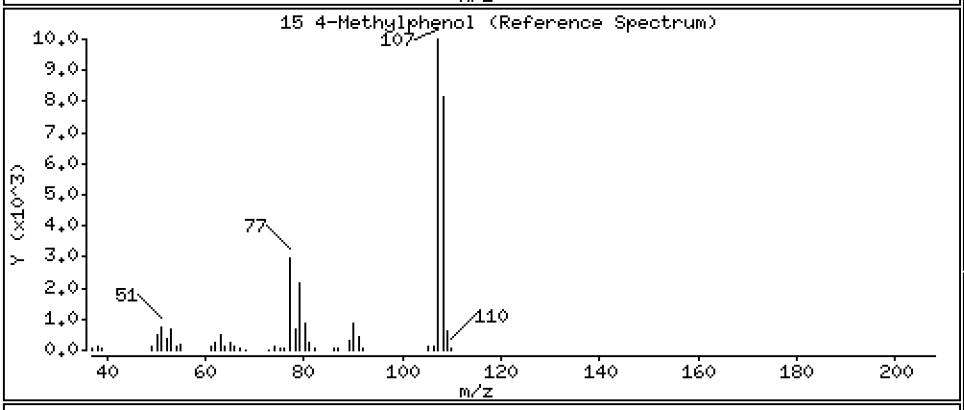
Concentration: 0.07961 ug/mL

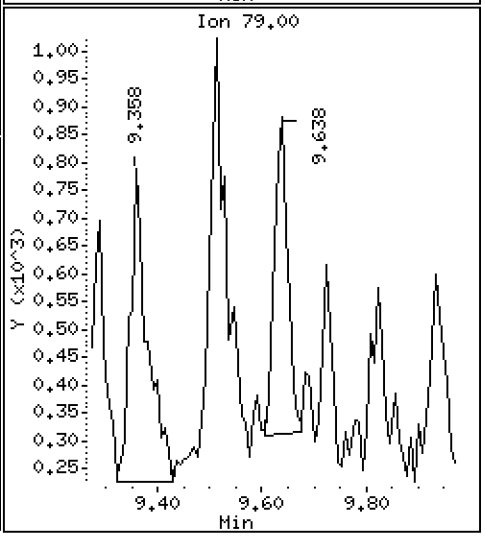


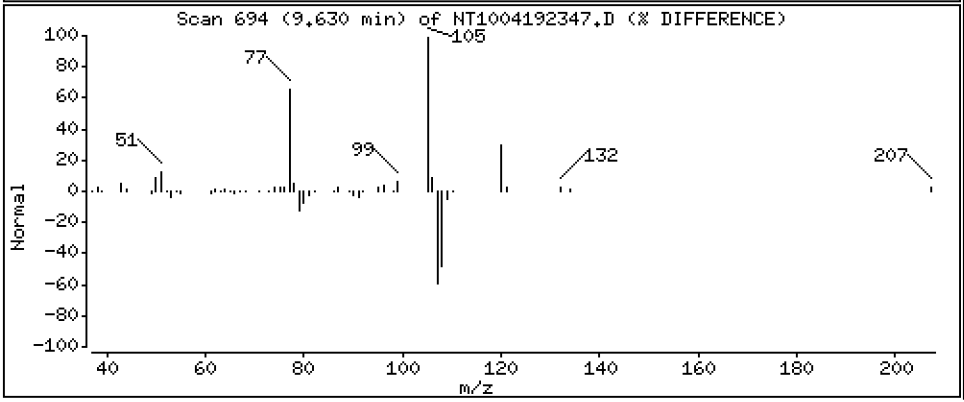












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

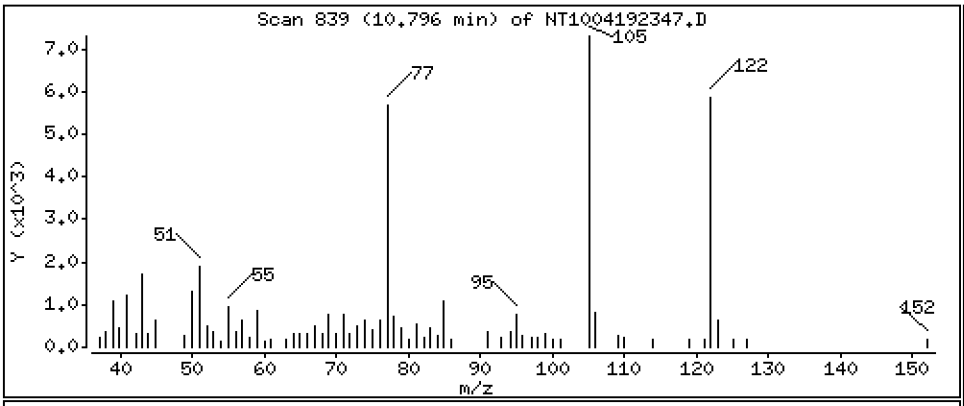
Operator: VTS

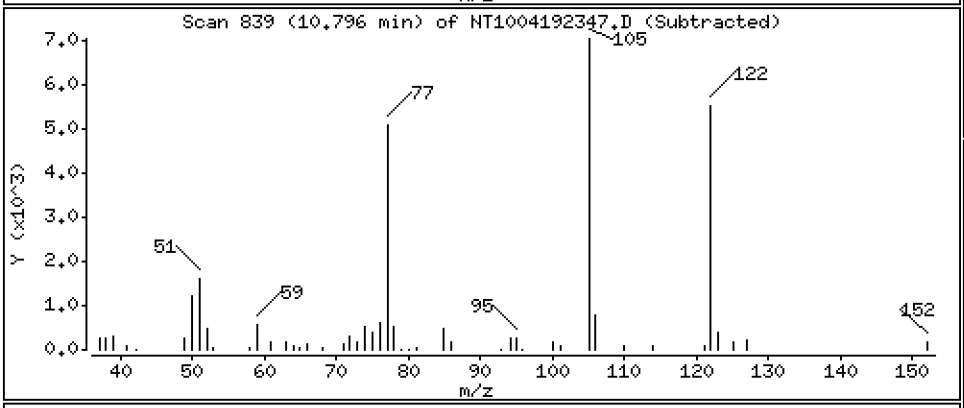
Column phase: ZB-5msi

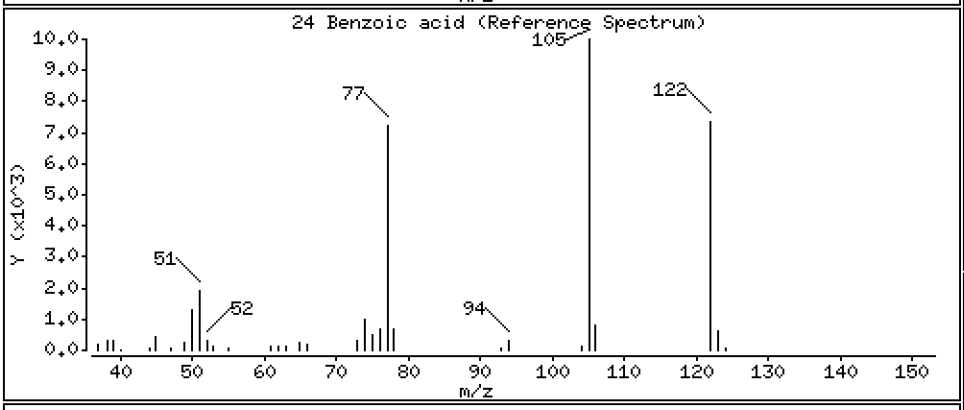
Column diameter: 0.25

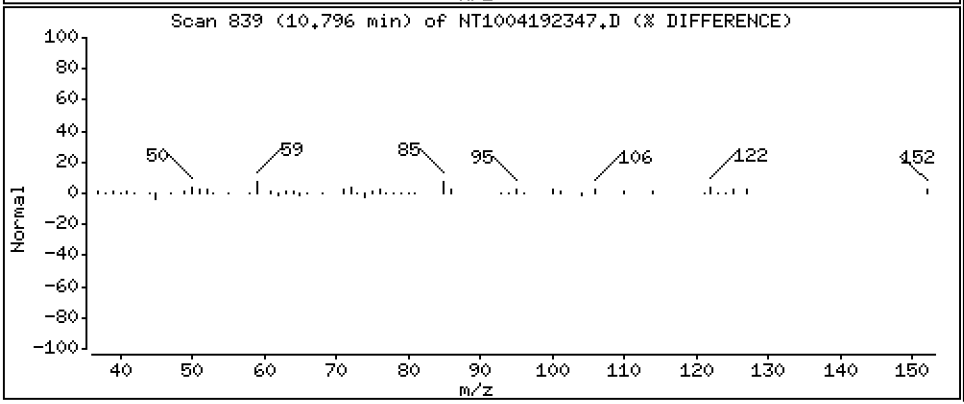
24 Benzoic acid

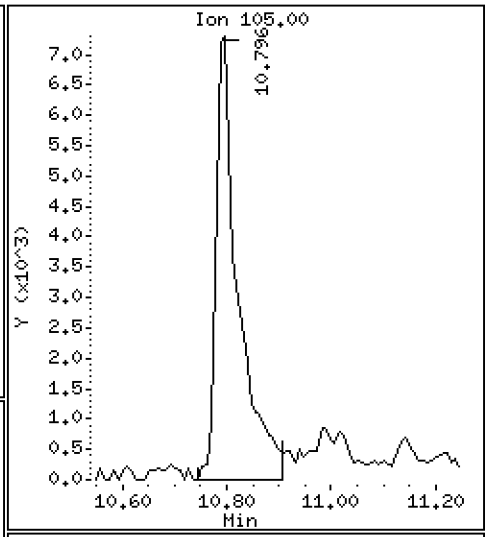
Concentration: 0.7698 ug/mL

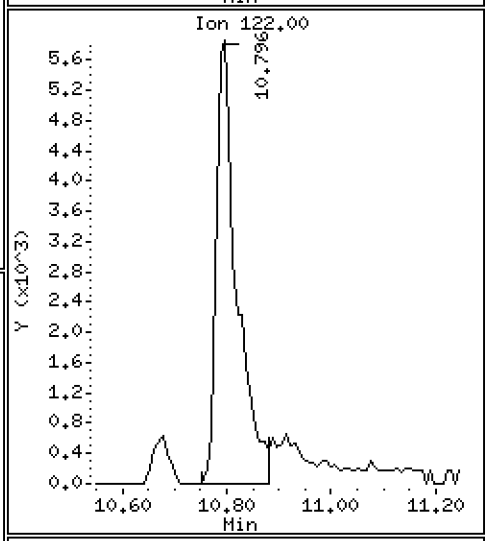


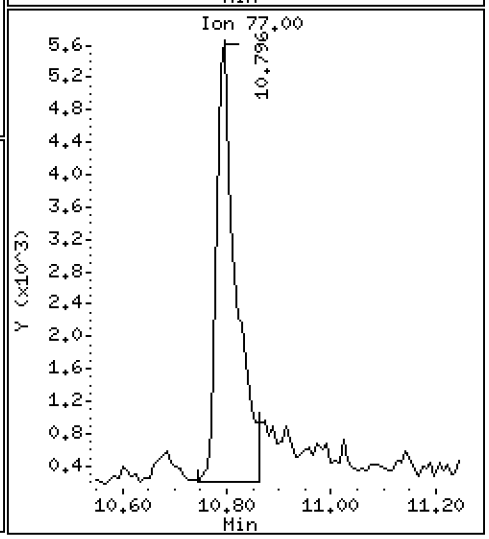












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192347.D

Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

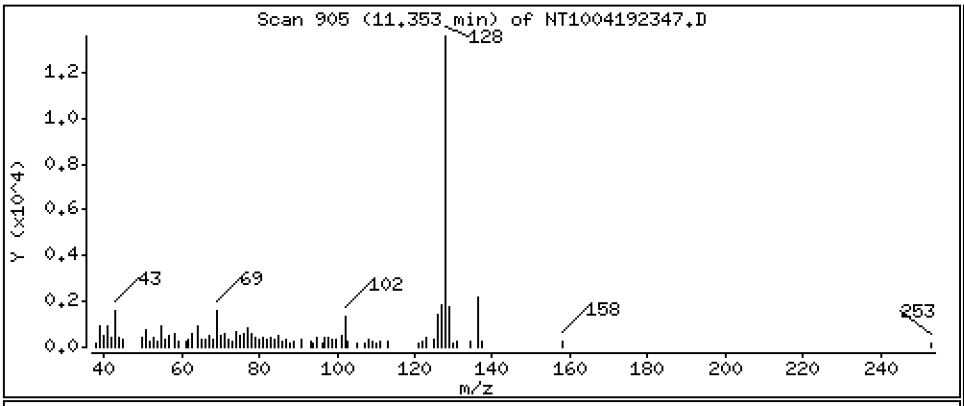
Operator: VTS

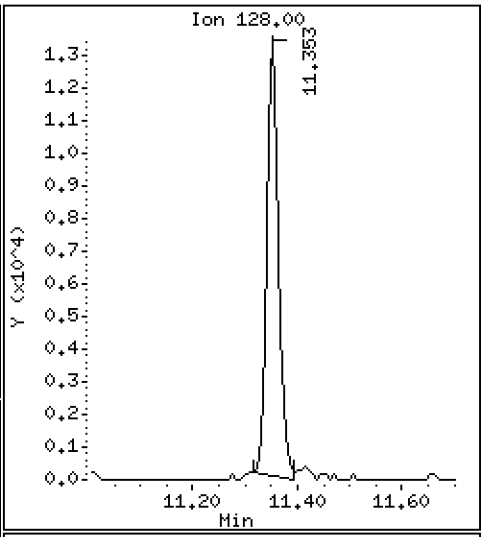
Column phase: ZB-5msi

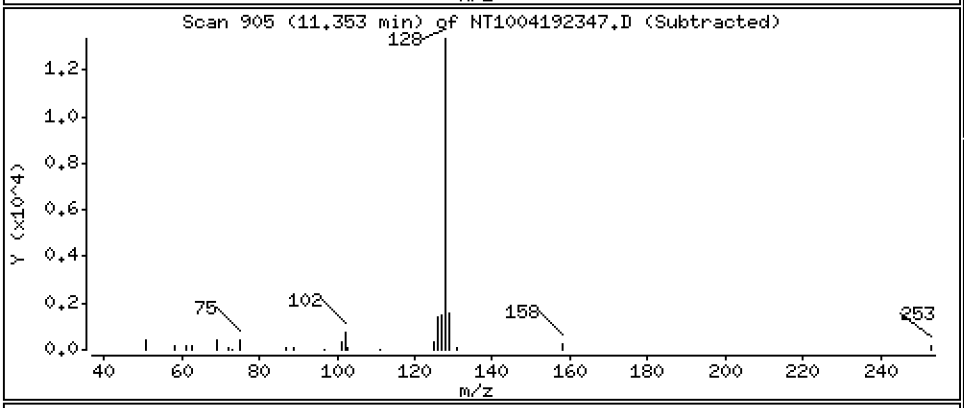
Column diameter: 0.25

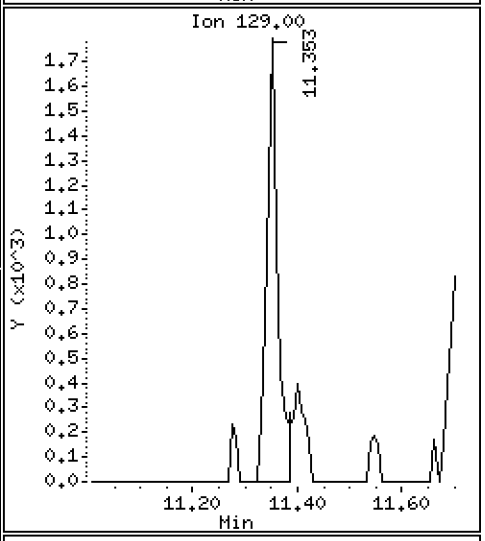
28 Naphthalene

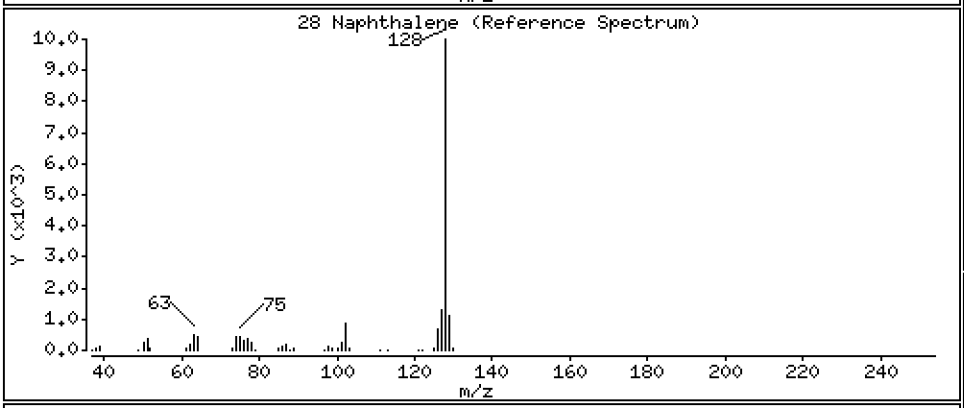
Concentration: 0.1424 ug/mL

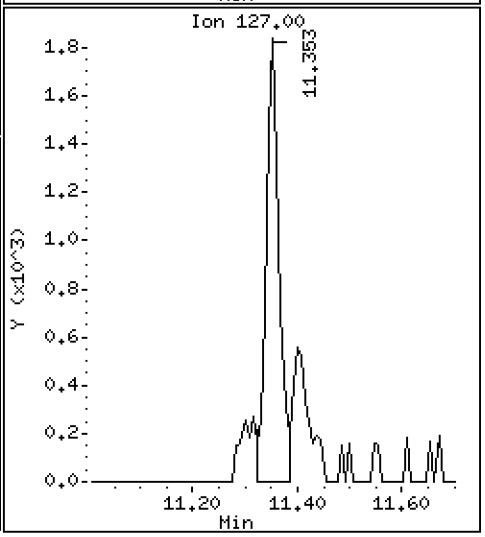


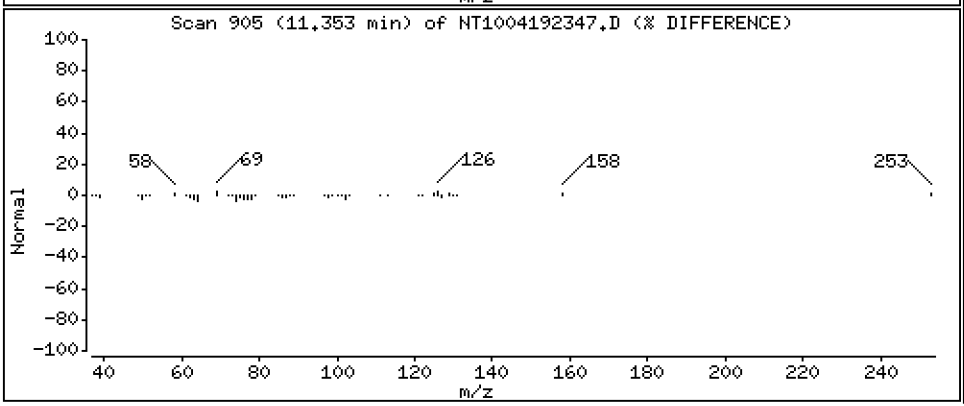












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192347.D

Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

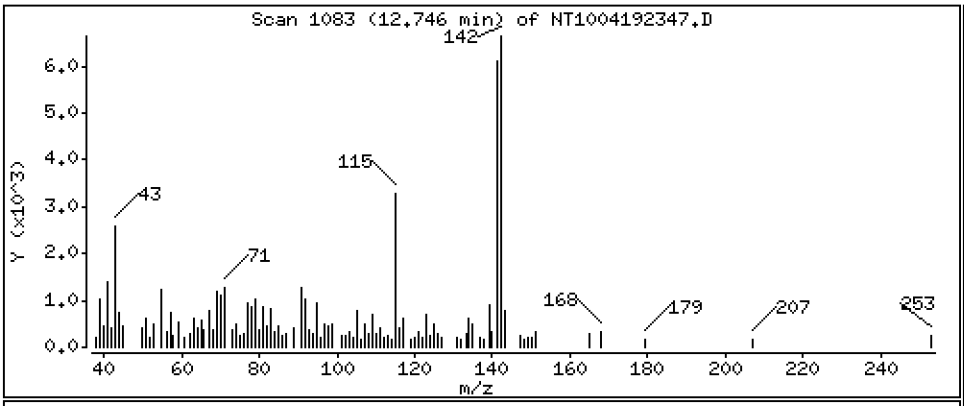
Operator: VTS

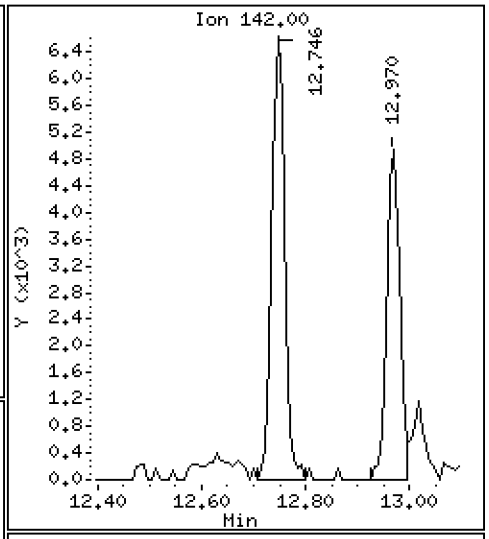
Column phase: ZB-5msi

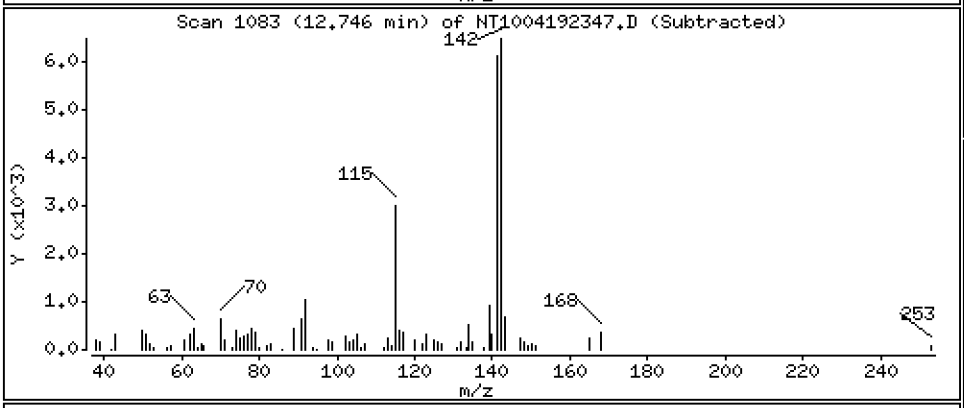
Column diameter: 0.25

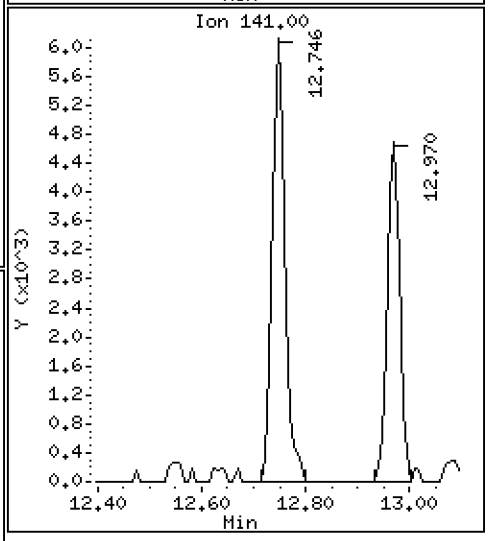
32 2-Methylnaphthalene

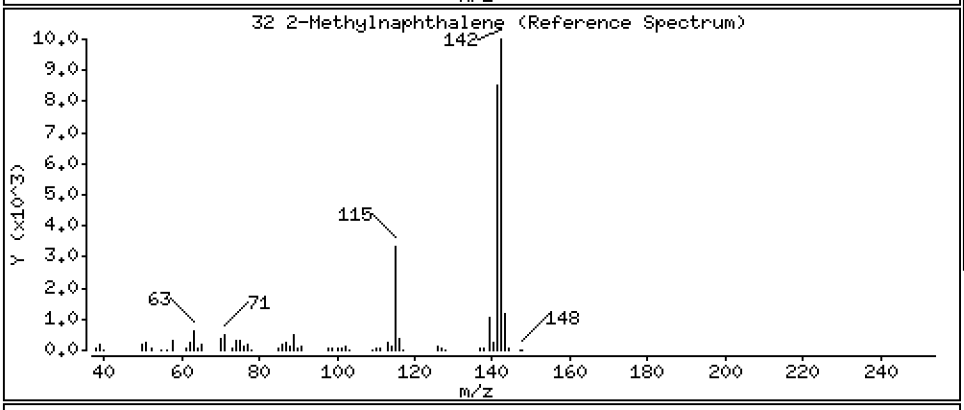
Concentration: 0.1015 ug/mL

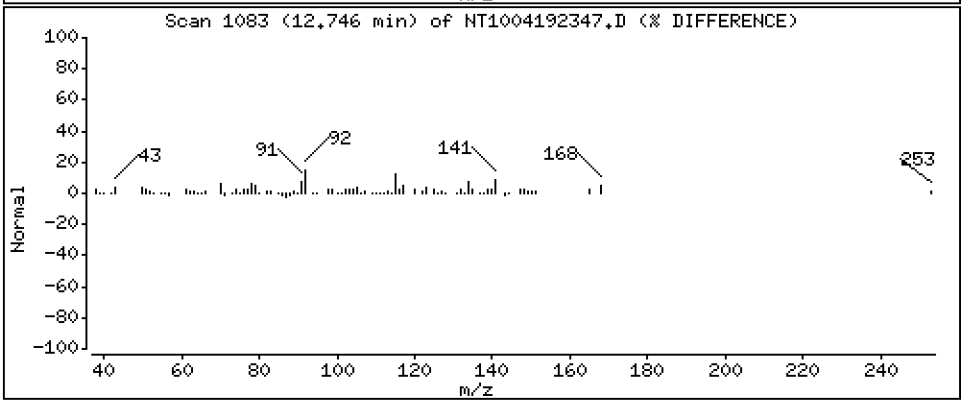












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192347.D

Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

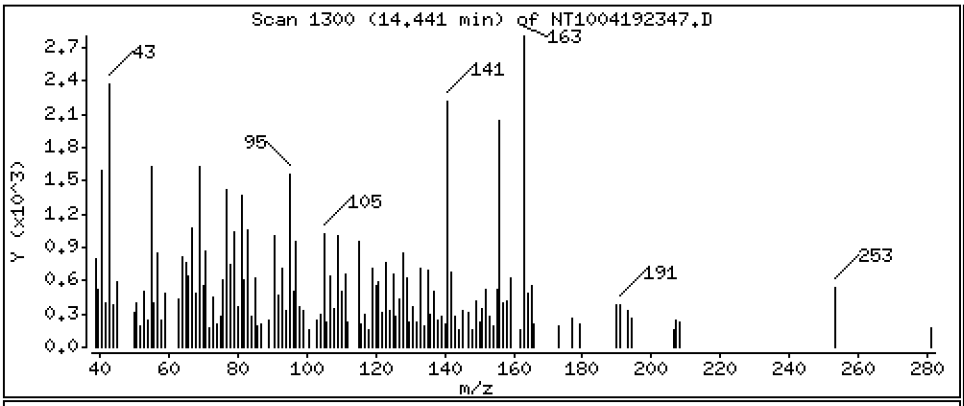
Operator: VTS

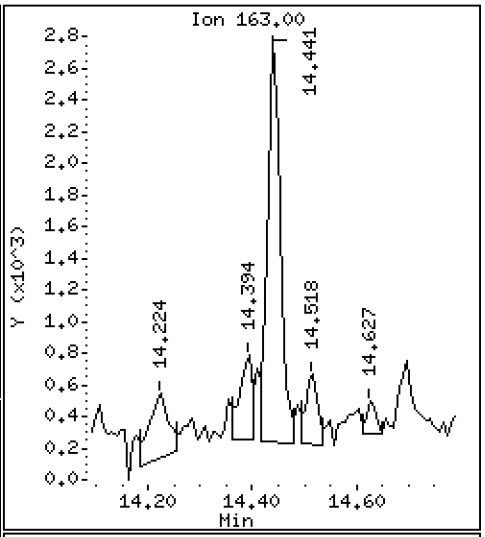
Column phase: ZB-5msi

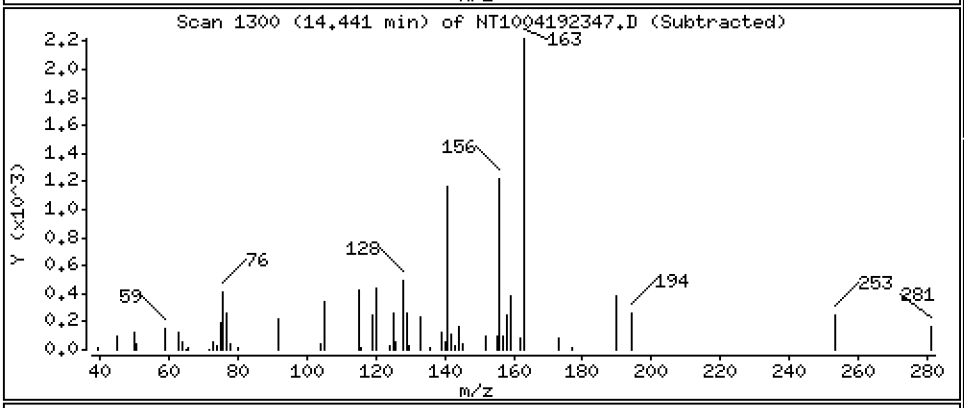
Column diameter: 0.25

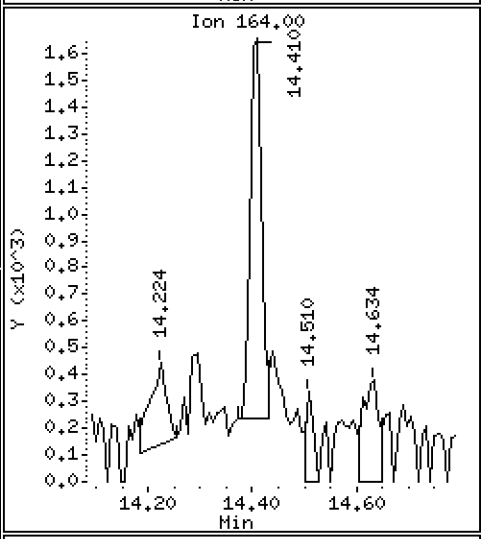
39 Dimethylphthalate

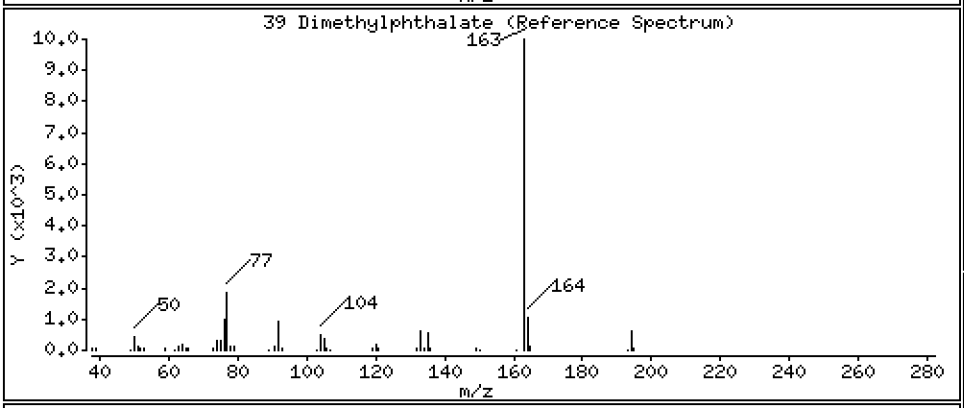
Concentration: 0.03941 ug/mL

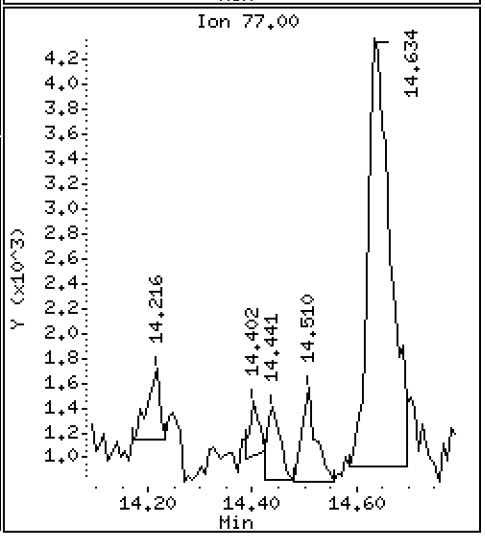


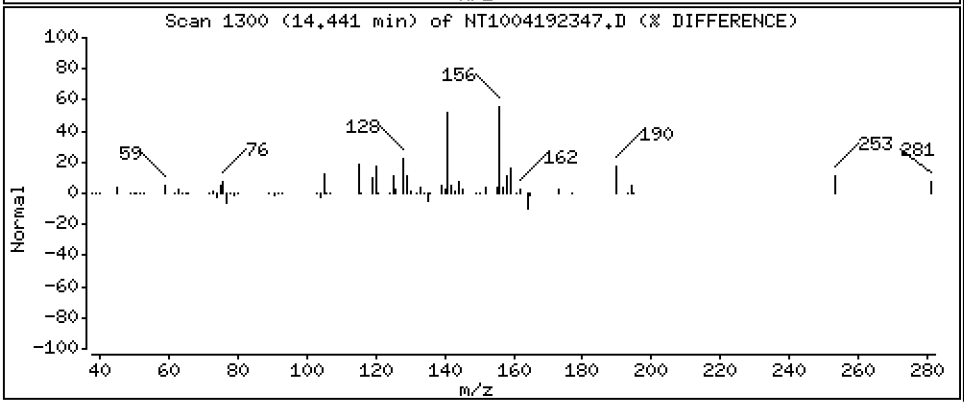












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

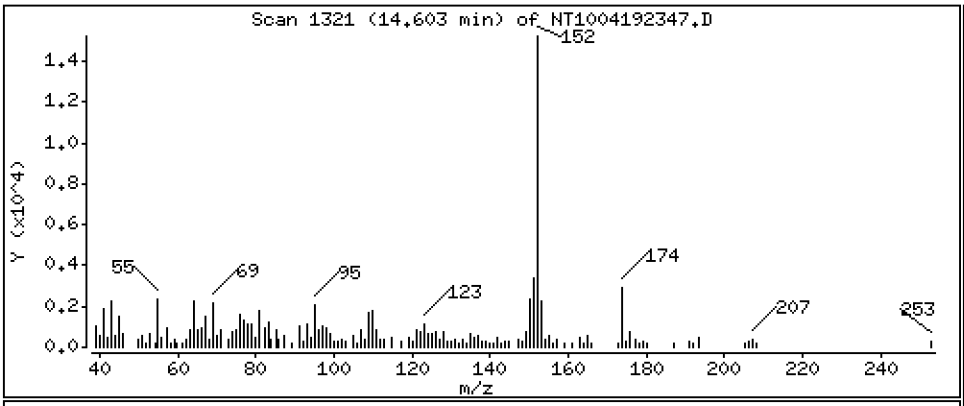
Operator: VTS

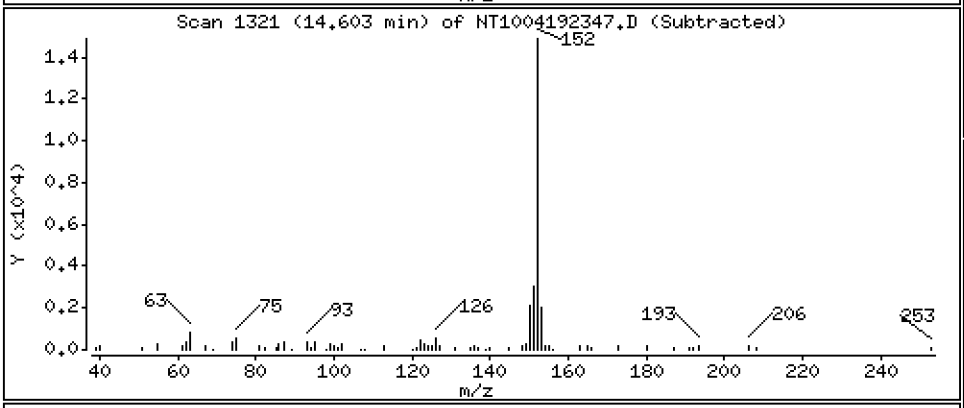
Column phase: ZB-5msi

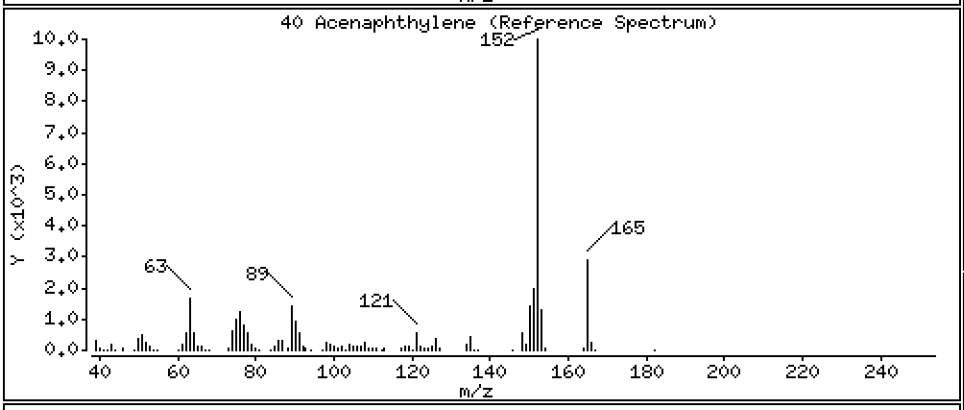
Column diameter: 0.25

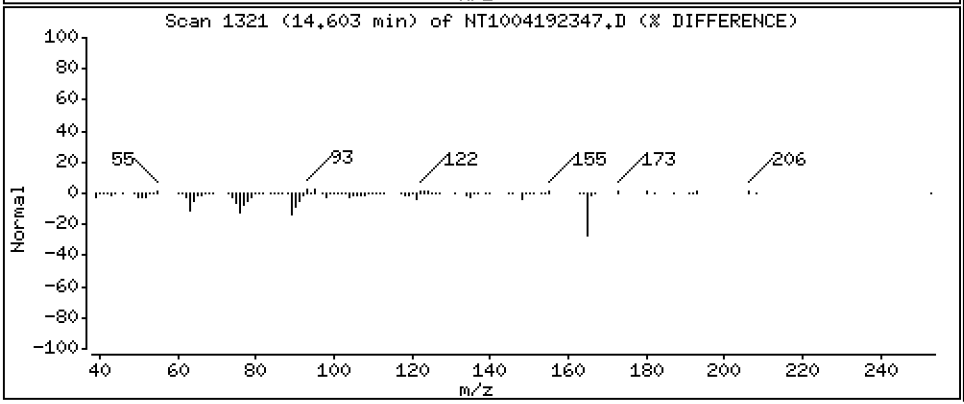
40 Acenaphthylene

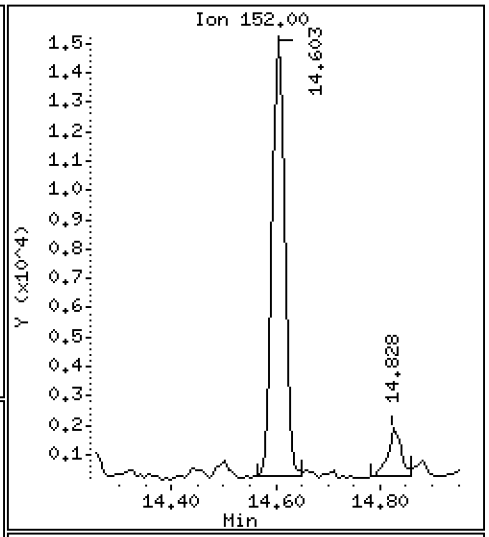
Concentration: 0.1474 ug/mL

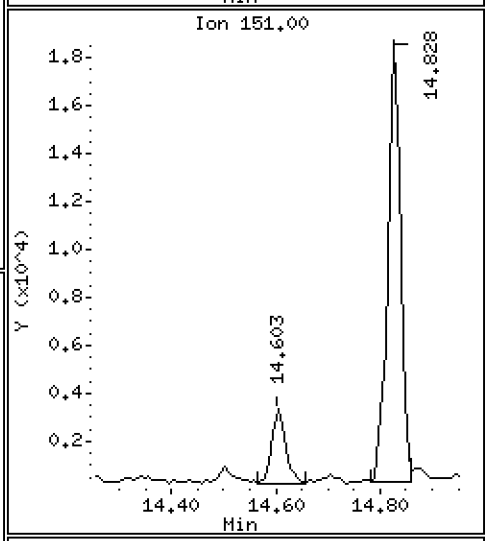


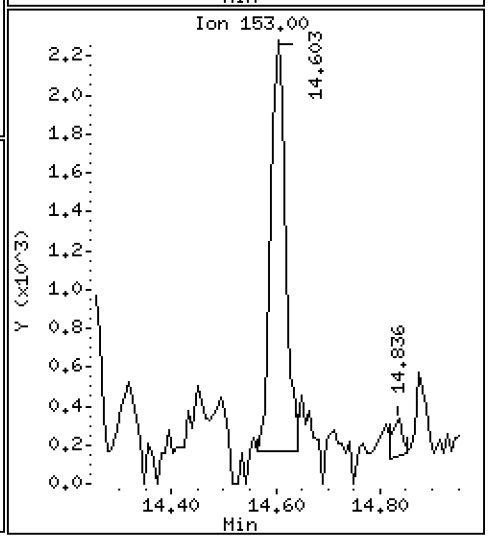












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

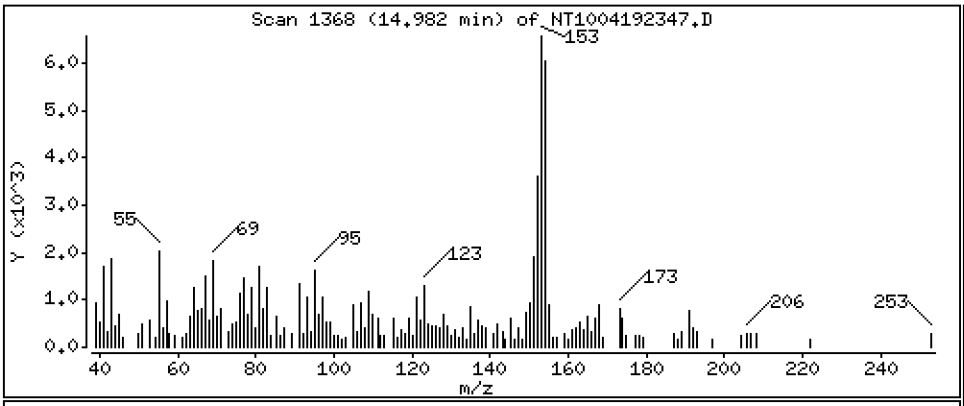
Operator: VTS

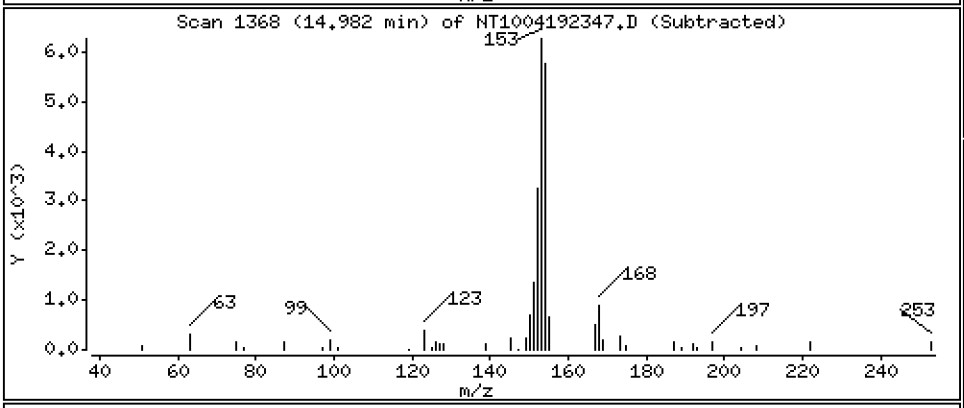
Column phase: ZB-5msi

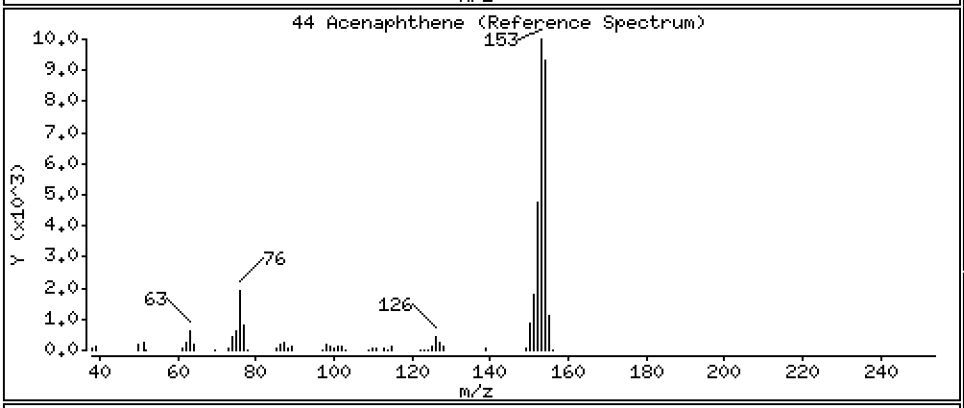
Column diameter: 0.25

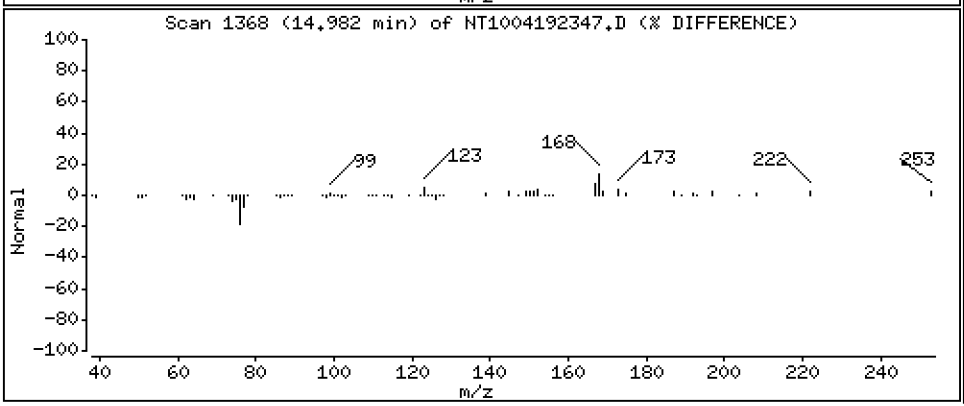
44 Acenaphthene

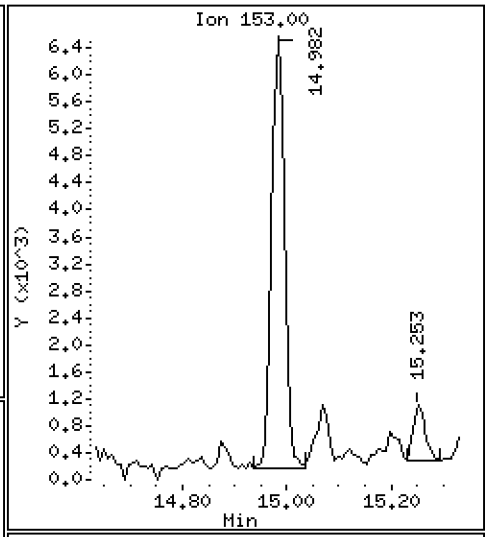
Concentration: 0.1044 ug/mL

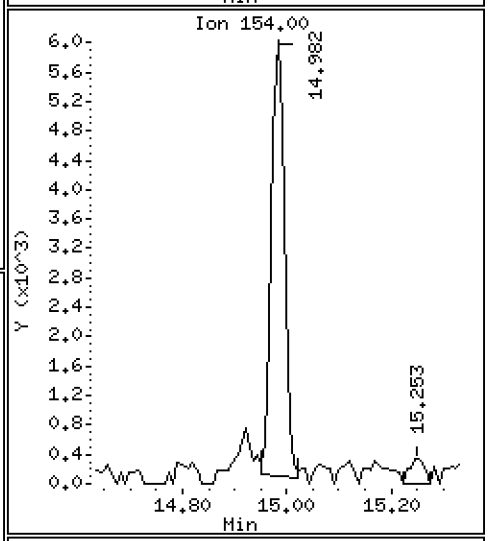


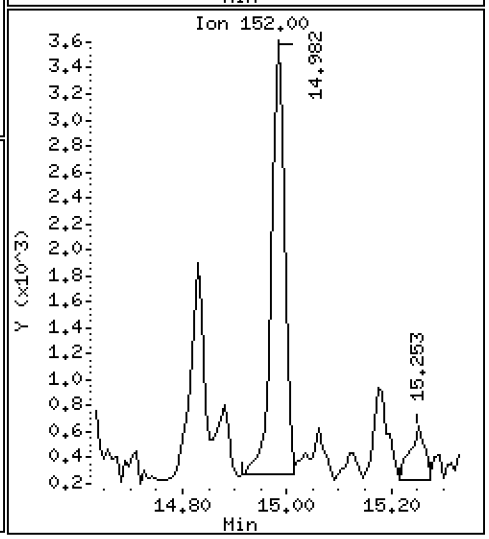












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

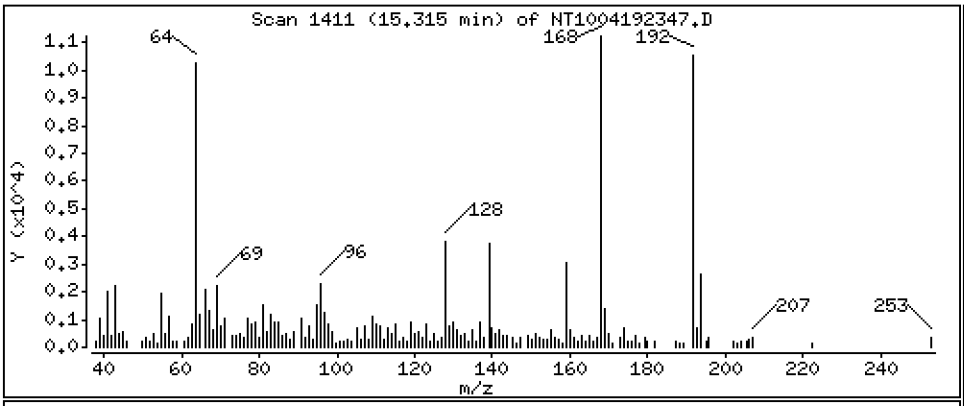
Operator: VTS

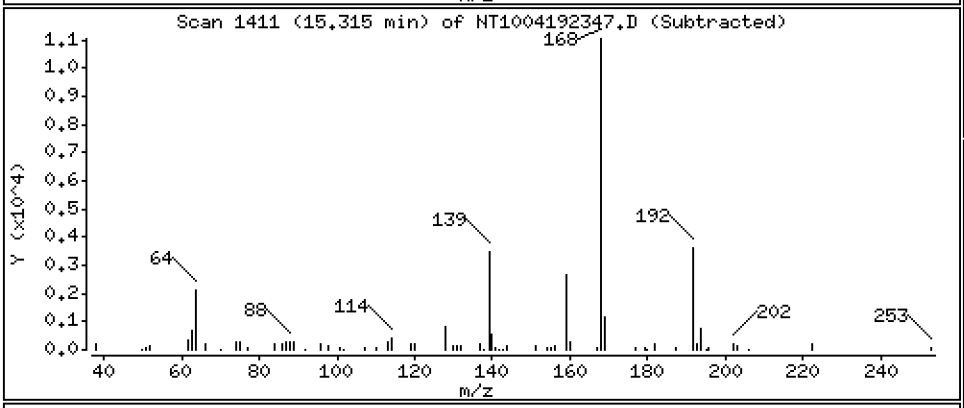
Column phase: ZB-5msi

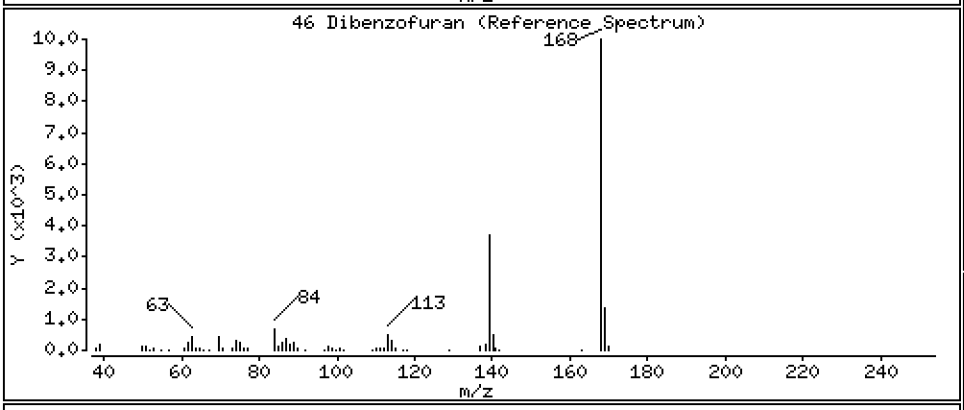
Column diameter: 0.25

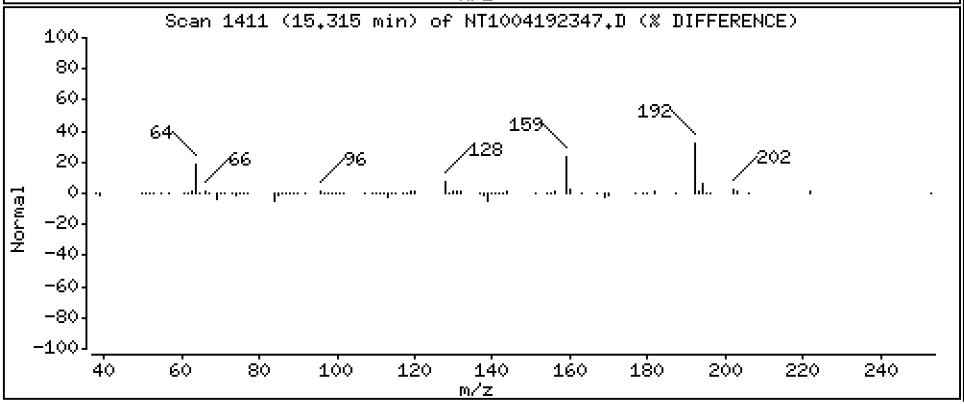
46 Dibenzofuran

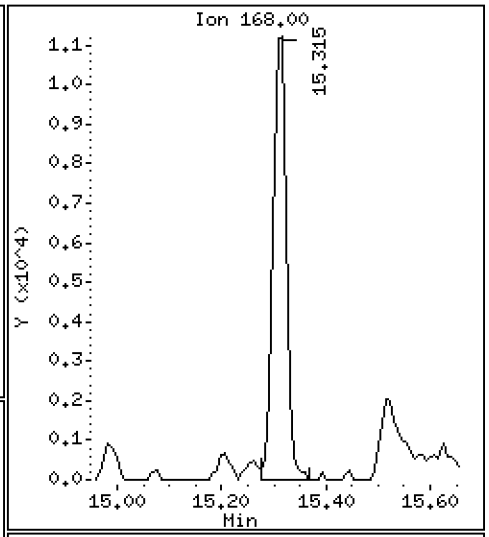
Concentration: 0.1305 ug/mL

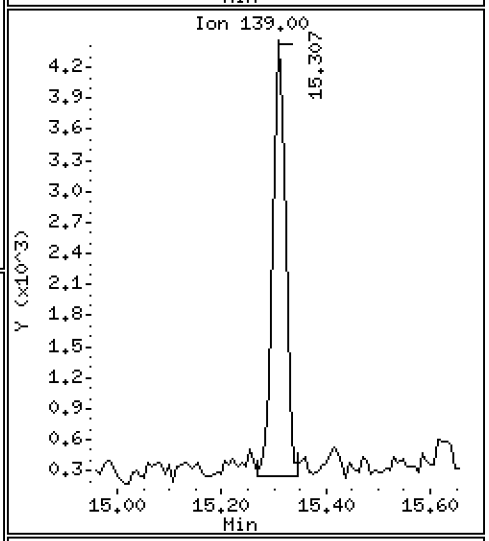


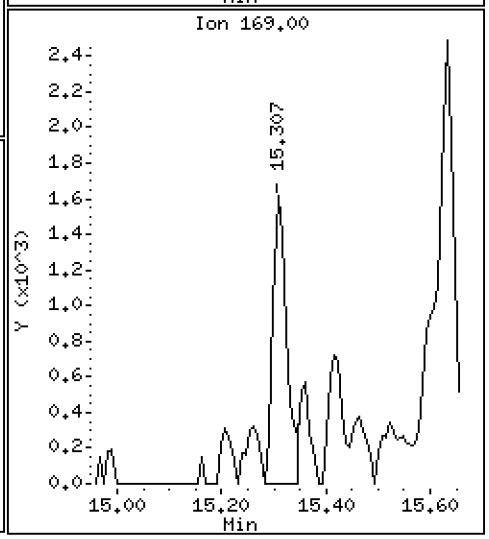












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

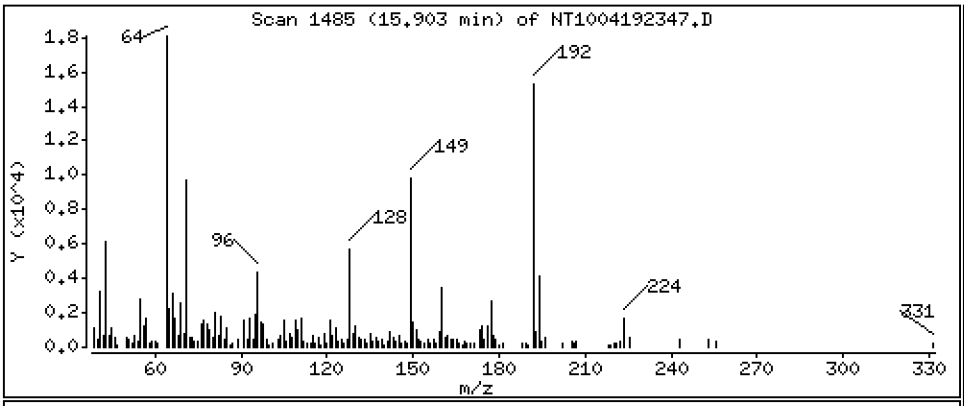
Operator: VTS

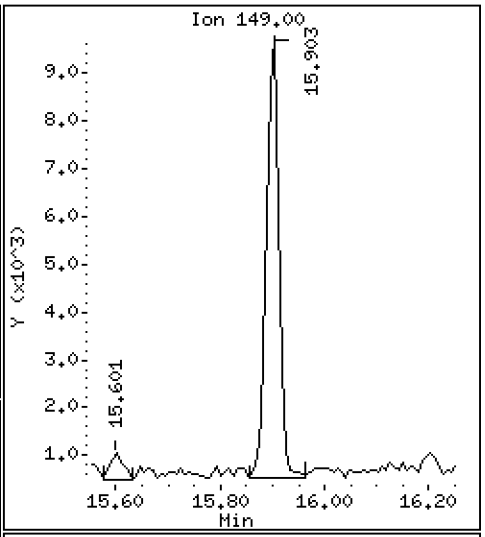
Column phase: ZB-5msi

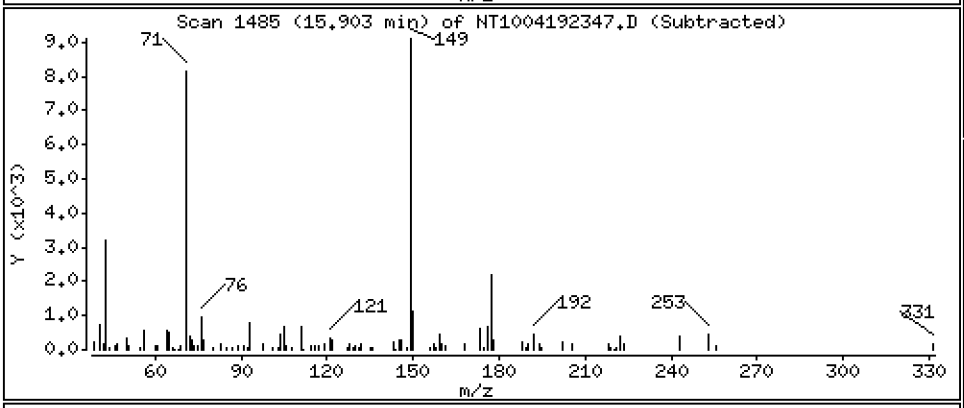
Column diameter: 0.25

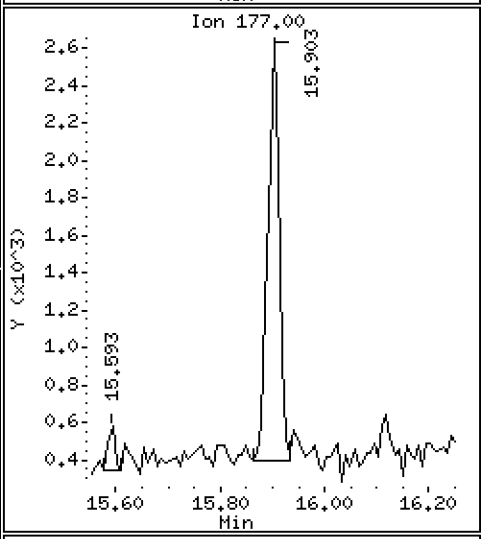
50 Diethylphthalate

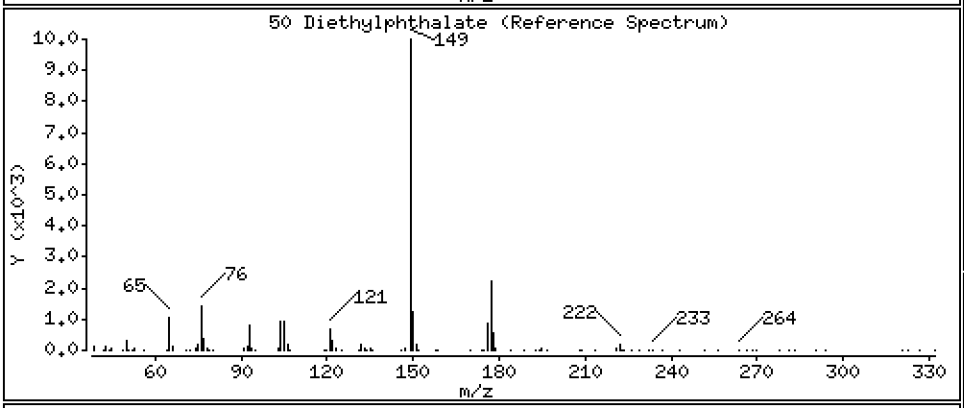
Concentration: 0.1676 ug/mL

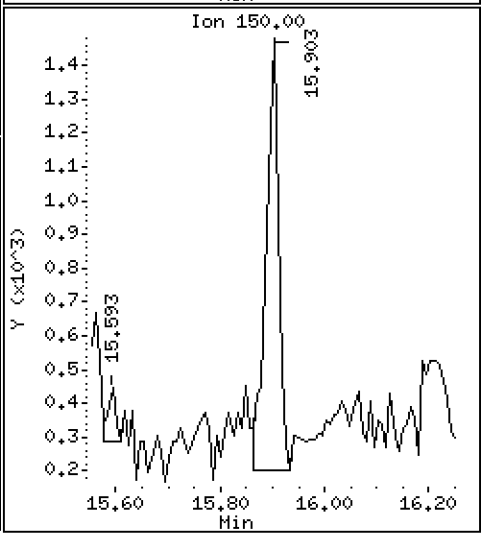


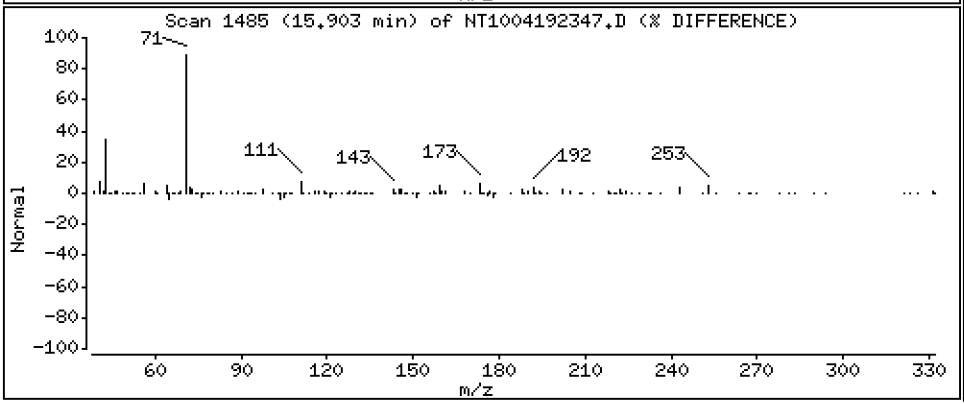












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

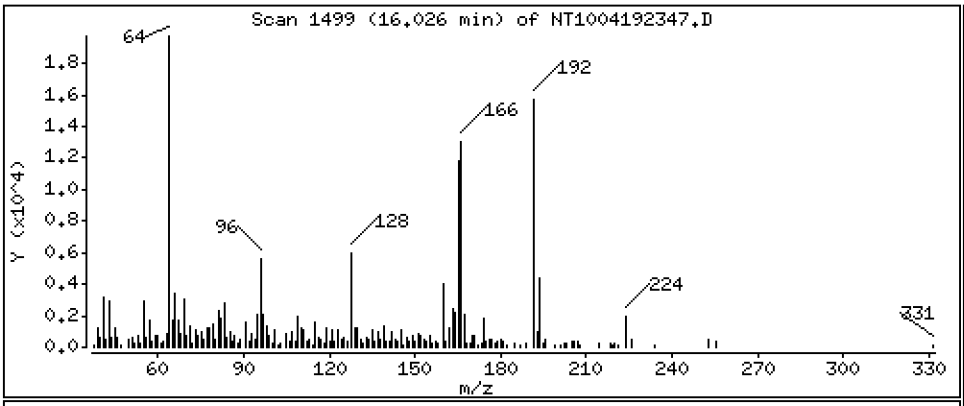
Operator: VTS

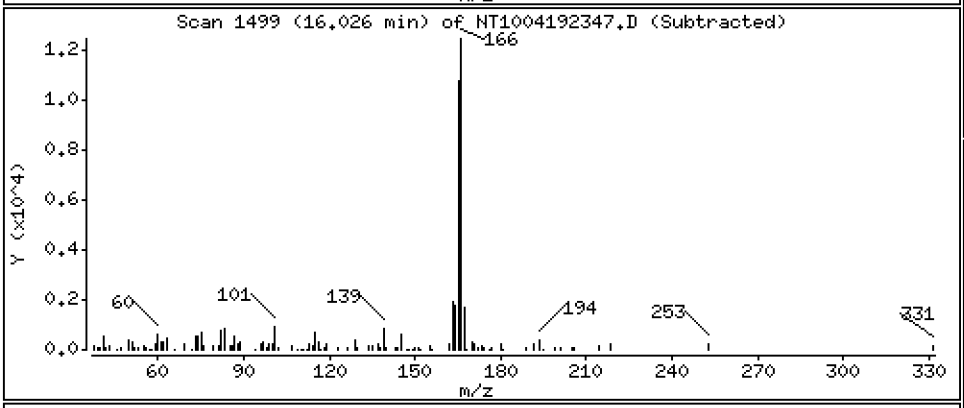
Column phase: ZB-5msi

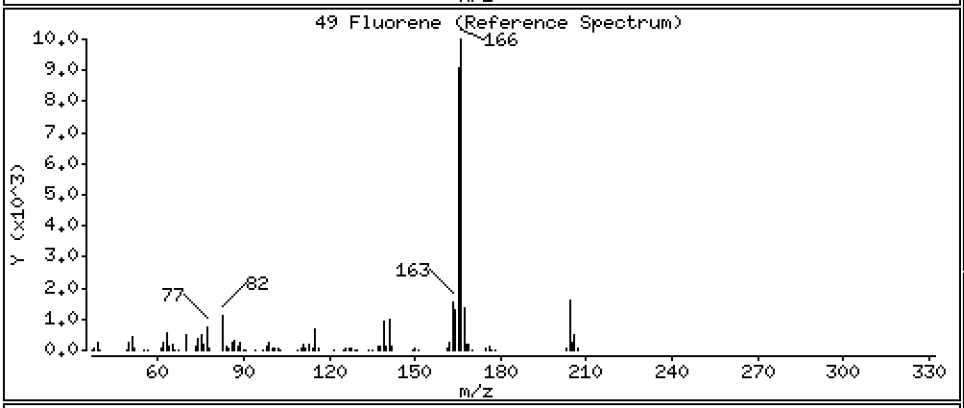
Column diameter: 0.25

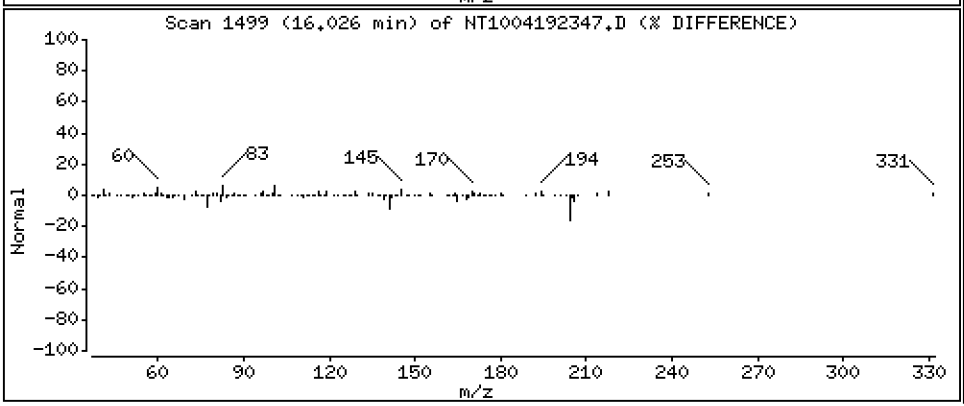
49 Fluorene

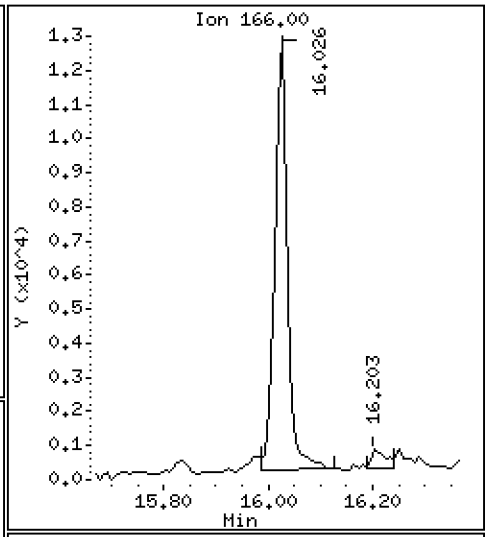
Concentration: 0.1841 ug/mL

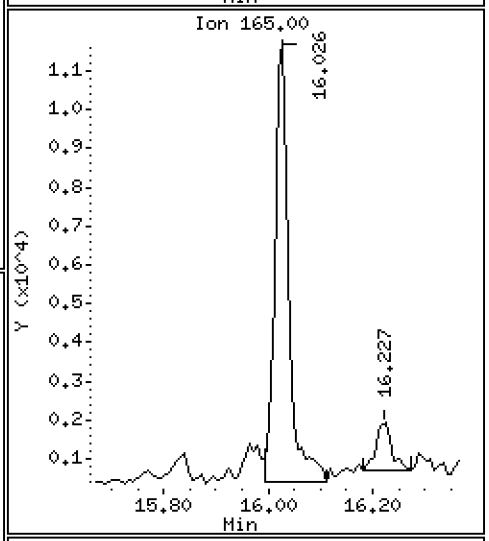


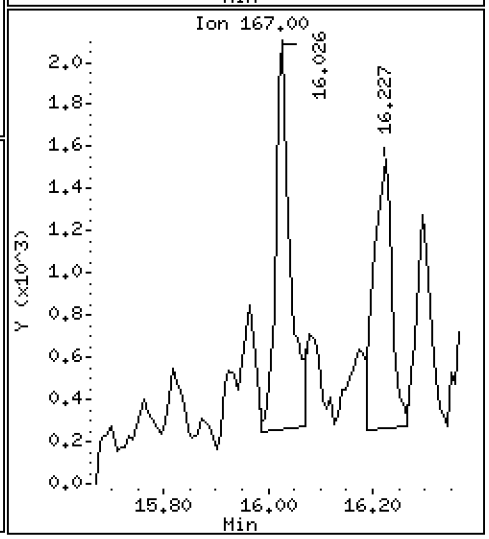












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

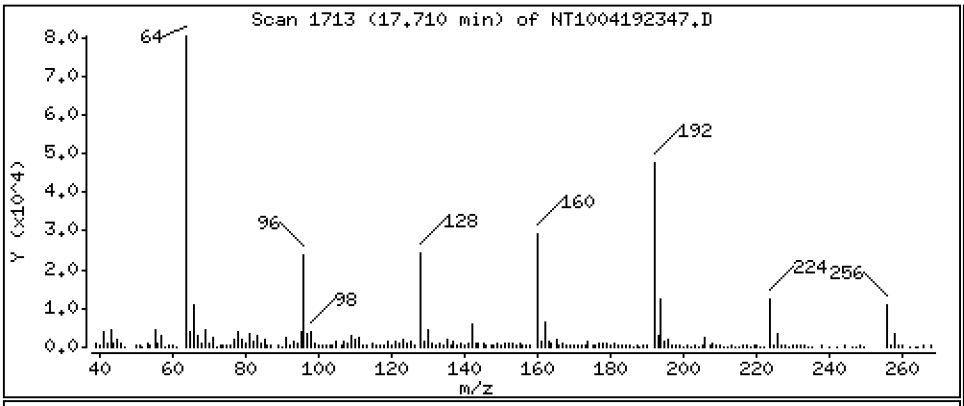
Operator: VTS

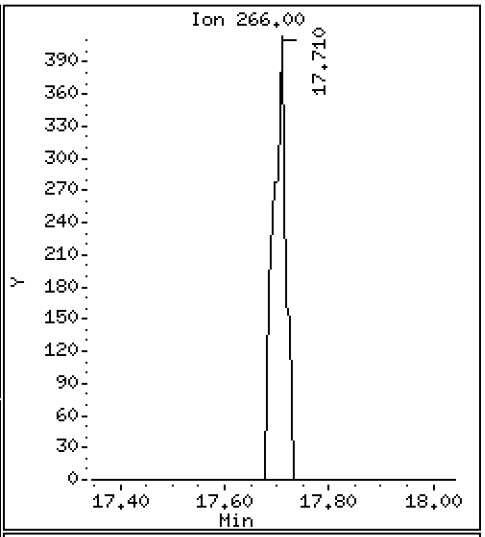
Column phase: ZB-5msi

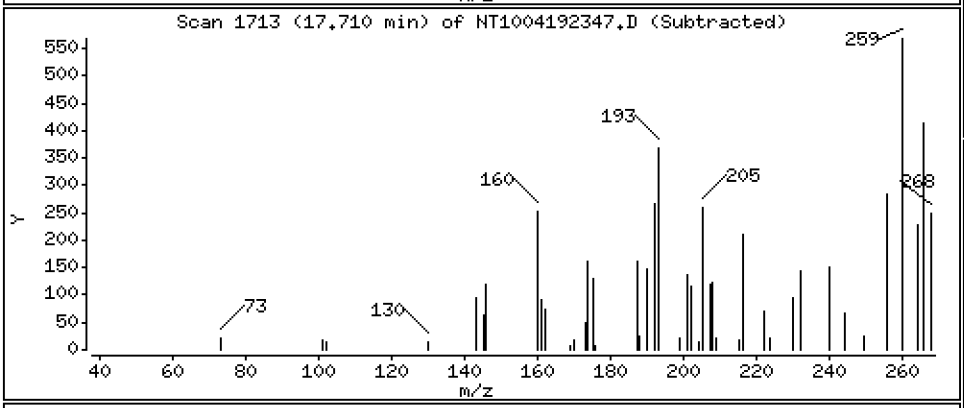
Column diameter: 0.25

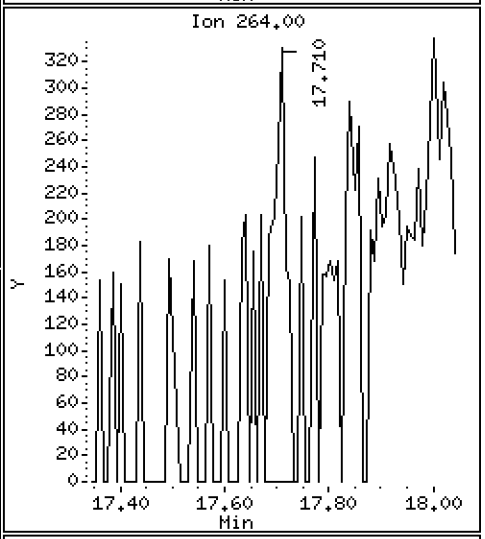
58 Pentachlorophenol

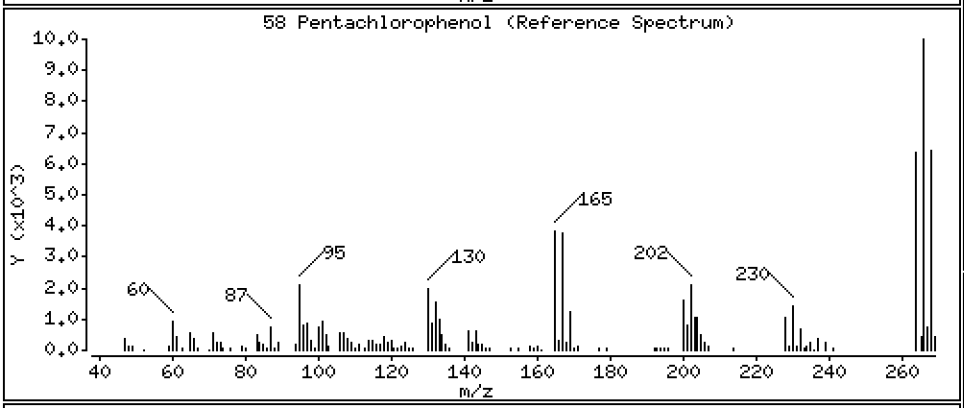
Concentration: 0.03353 ug/mL

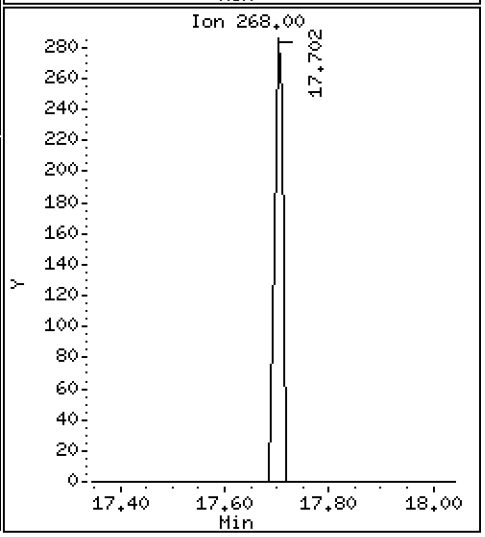


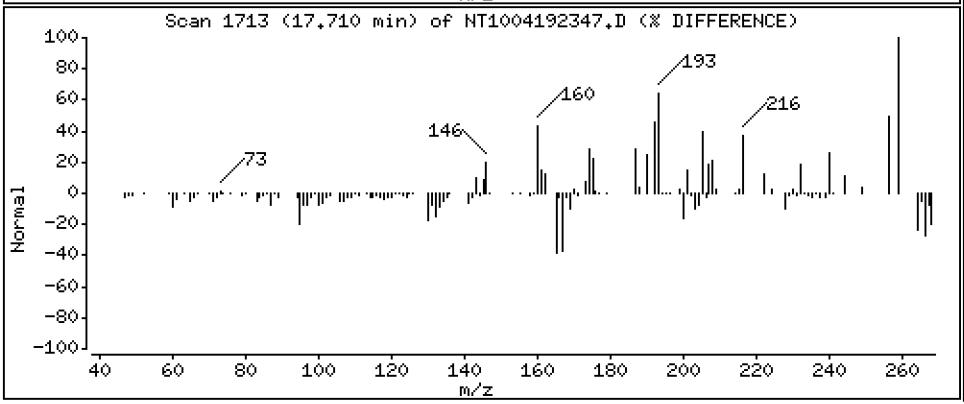












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

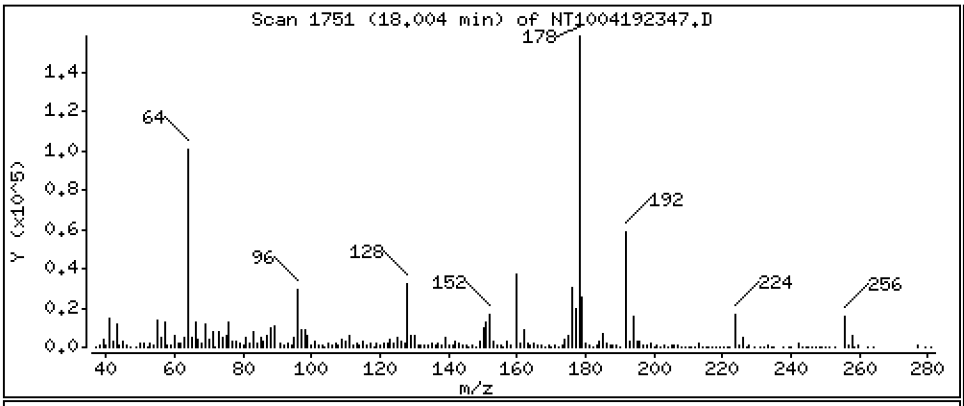
Operator: VTS

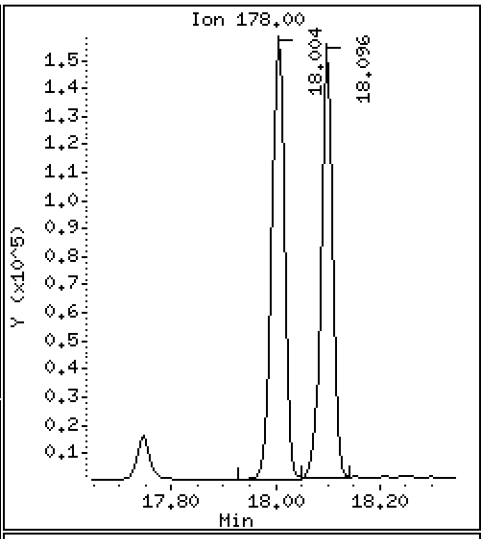
Column phase: ZB-5msi

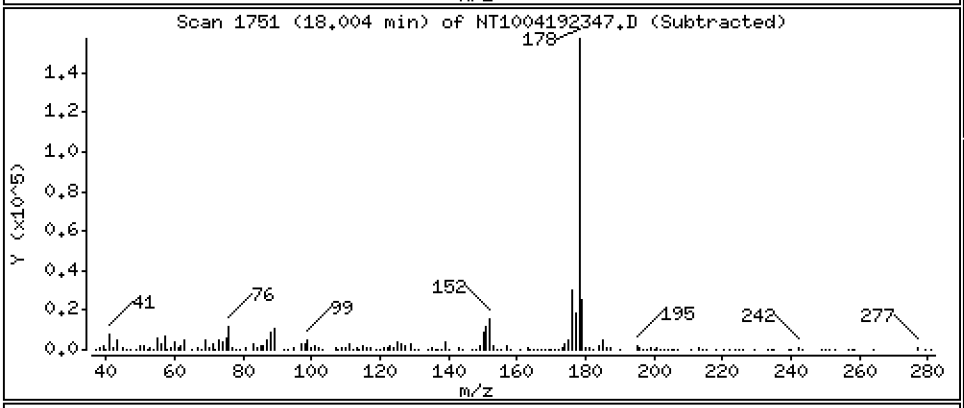
Column diameter: 0.25

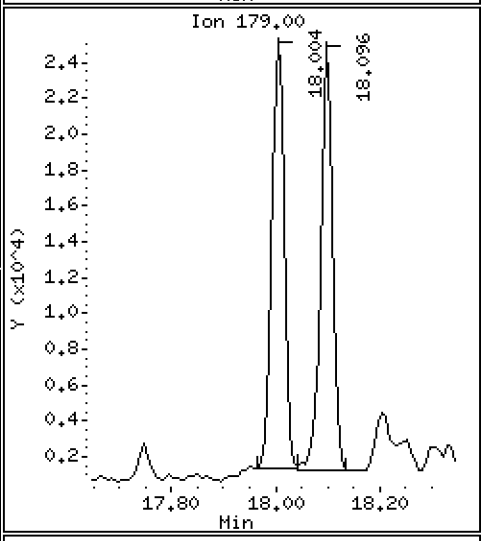
60 Phenanthrene

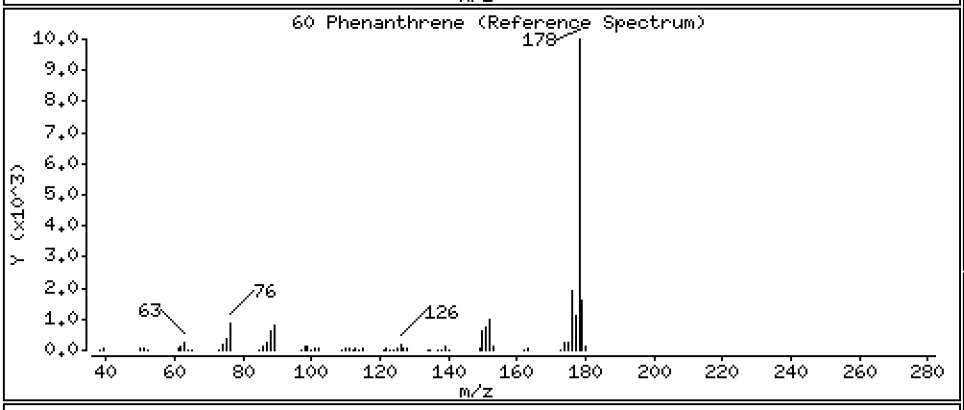
Concentration: 1.599 ug/mL

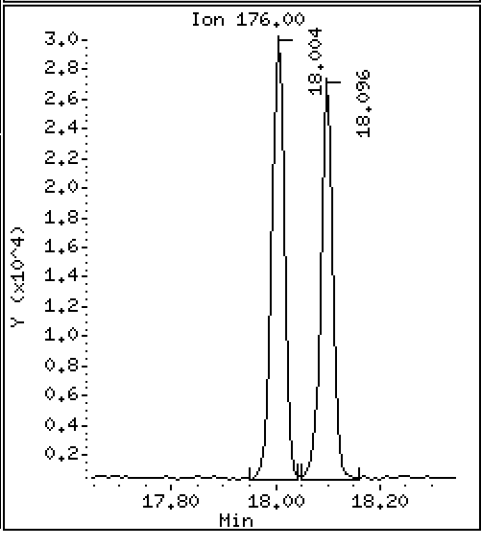


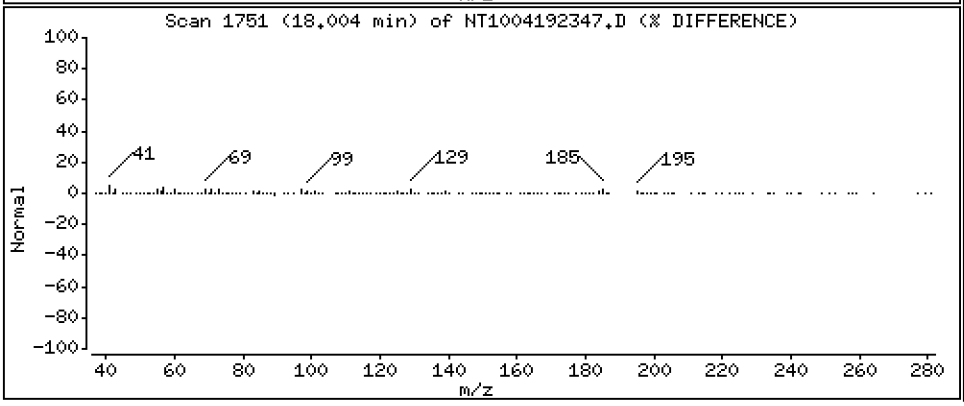












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

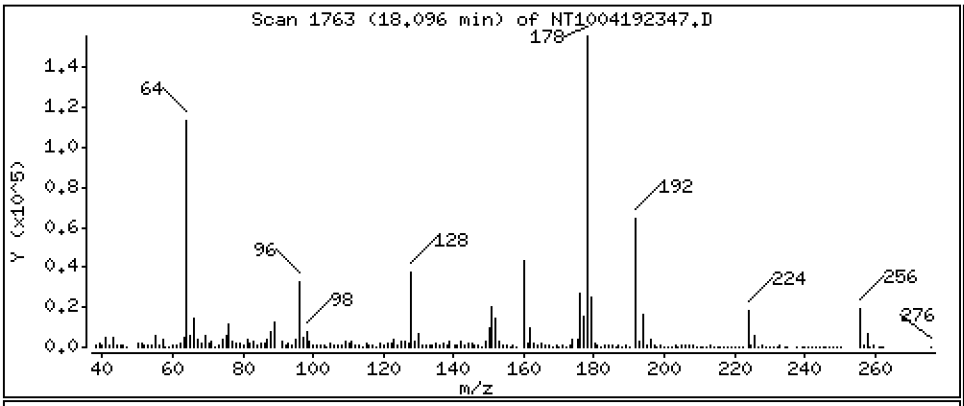
Operator: VTS

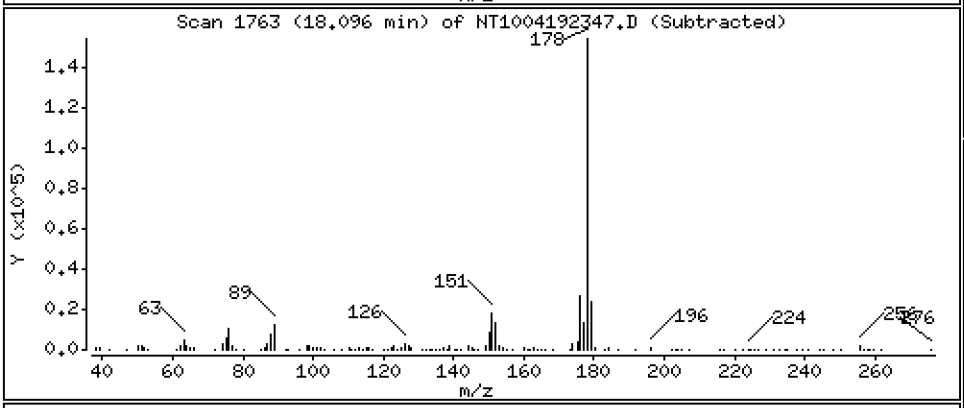
Column phase: ZB-5msi

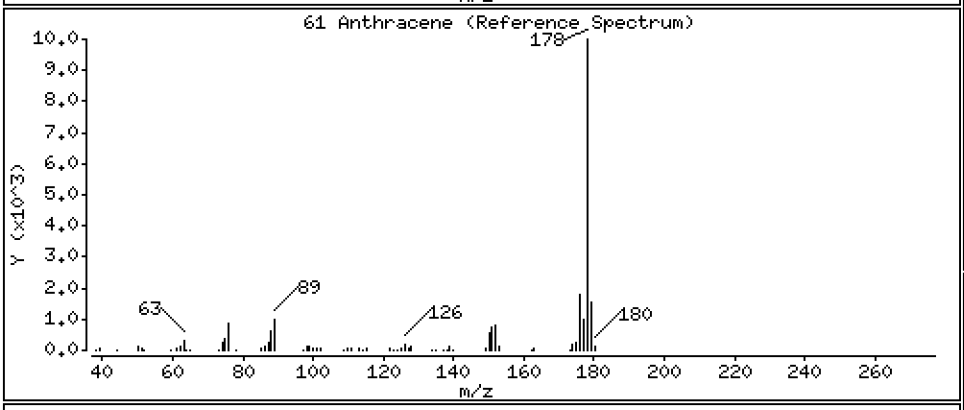
Column diameter: 0.25

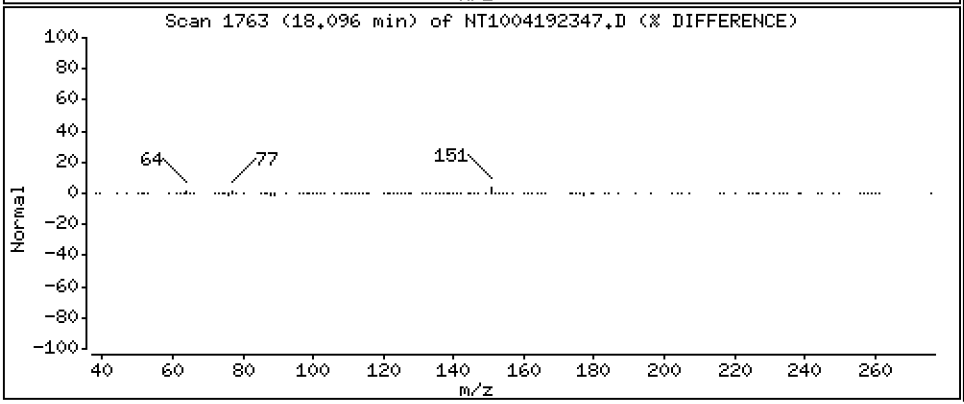
61 Anthracene

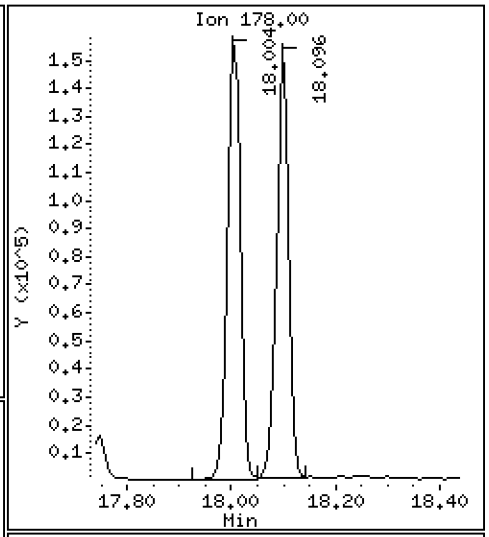
Concentration: 1.568 ug/mL

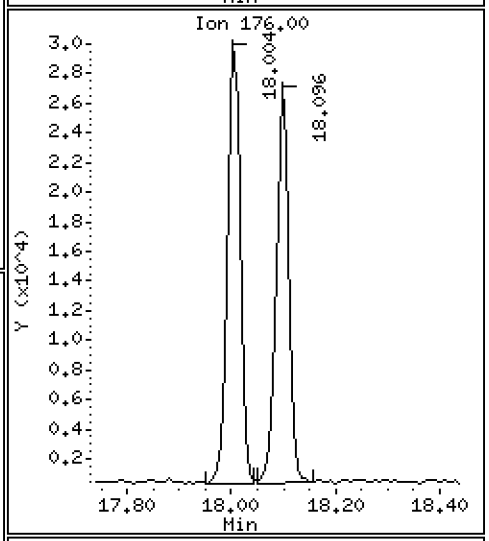


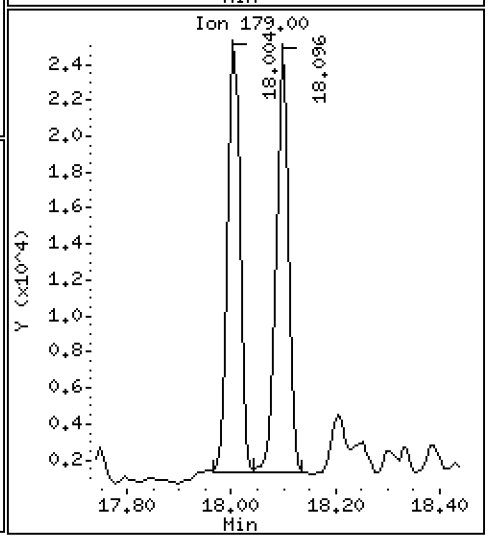












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

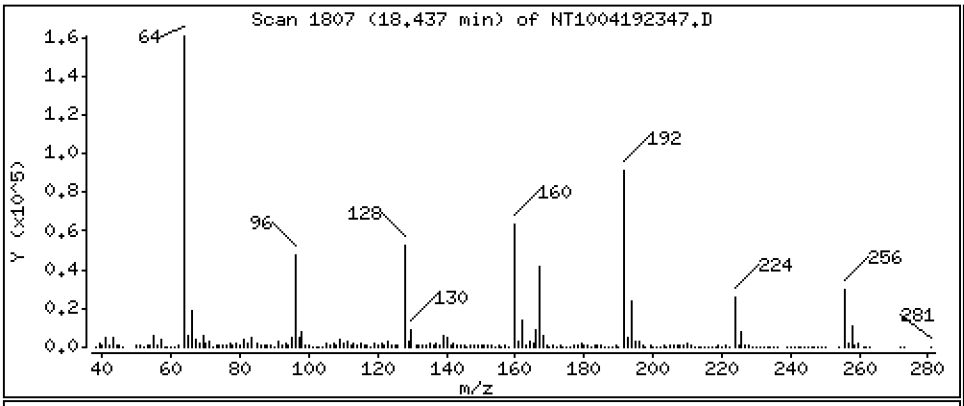
Operator: VTS

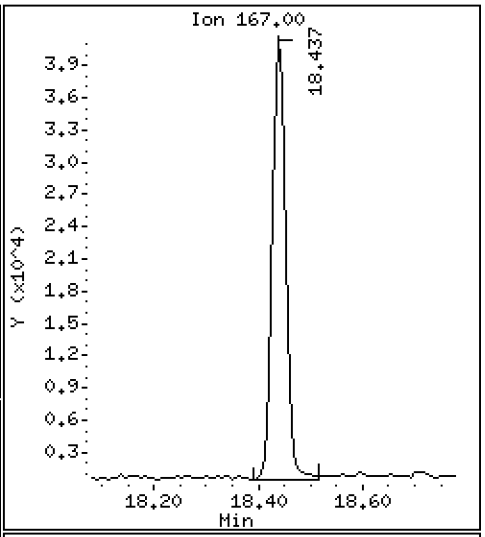
Column phase: ZB-5msi

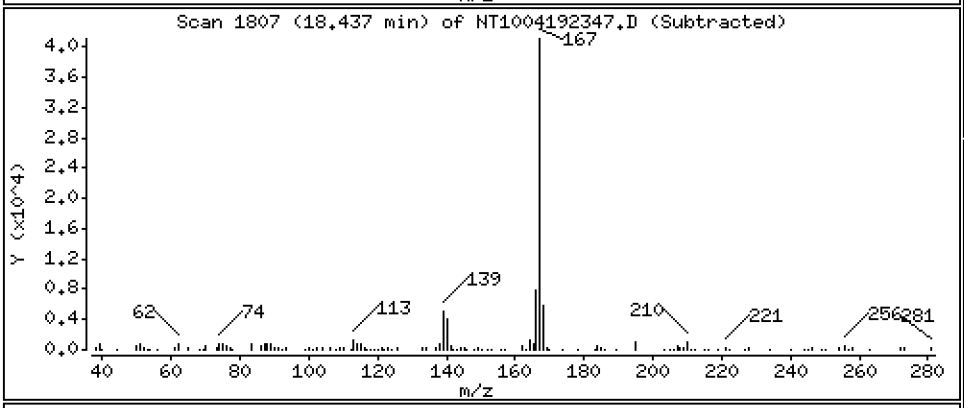
Column diameter: 0.25

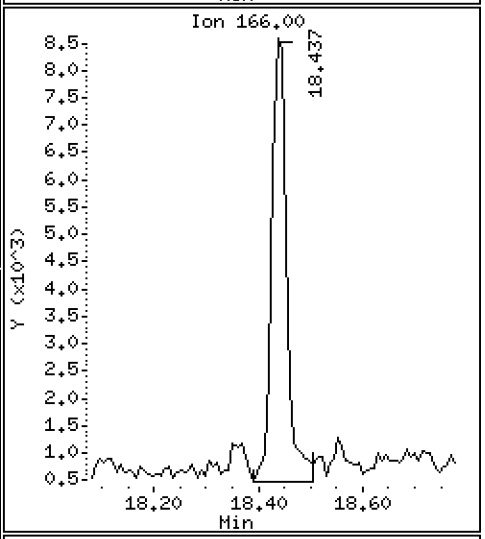
62 Carbazole

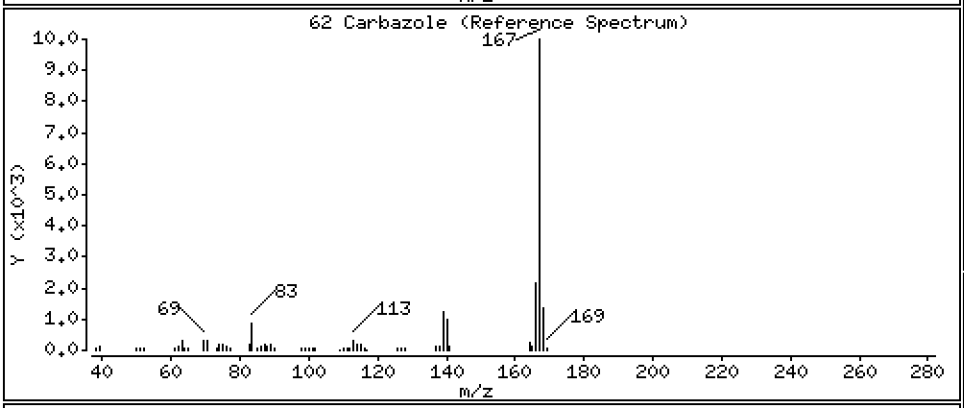
Concentration: 0.5131 ug/mL

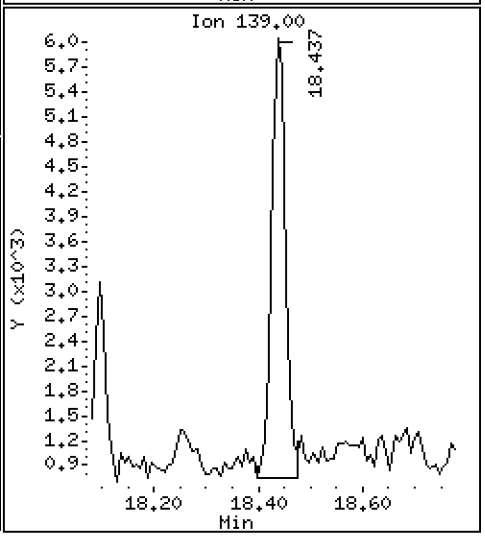


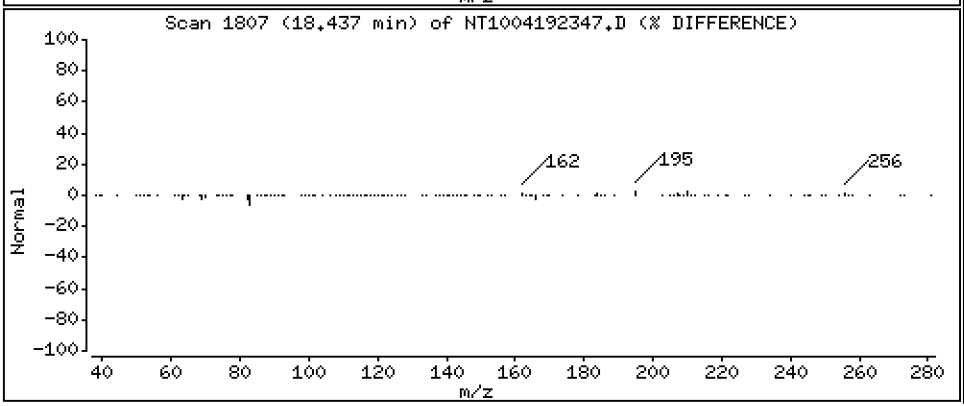












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

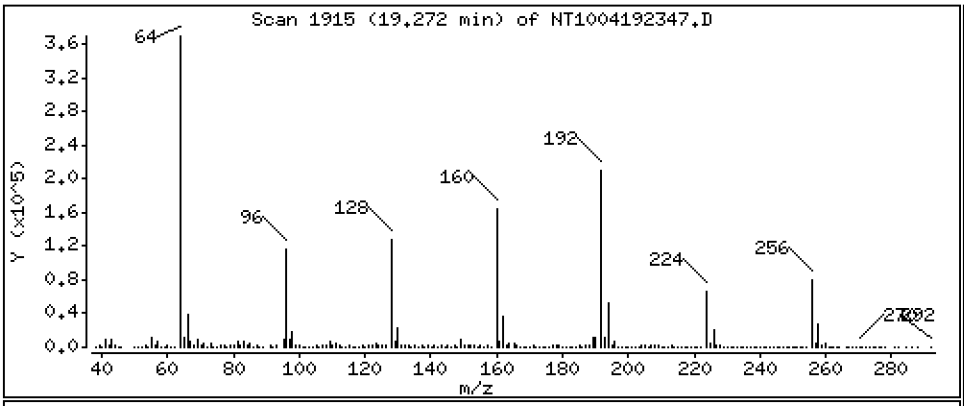
Operator: VTS

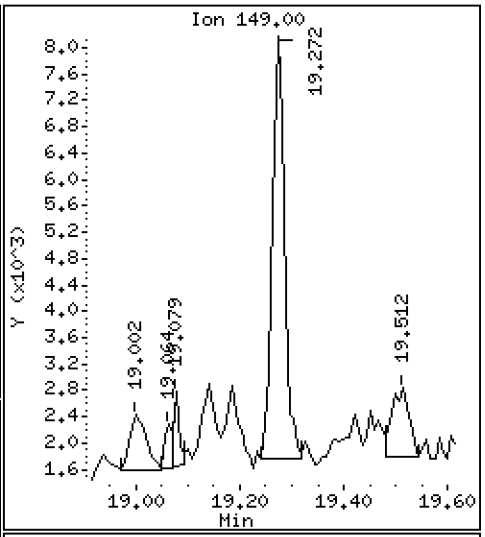
Column phase: ZB-5msi

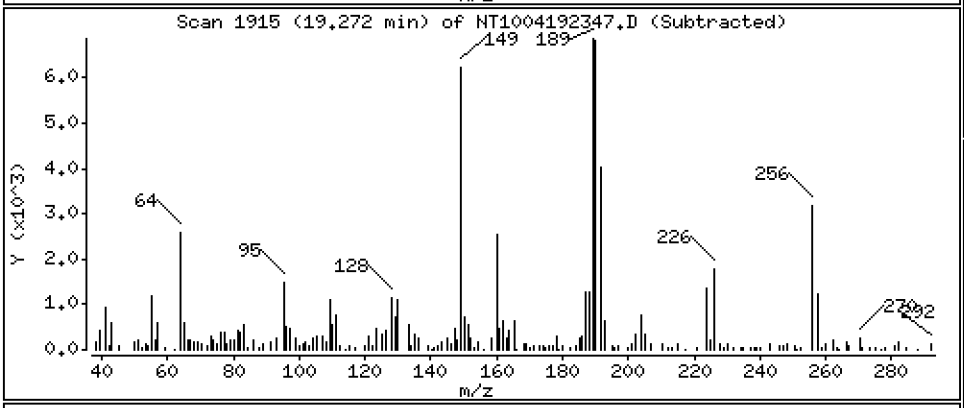
Column diameter: 0.25

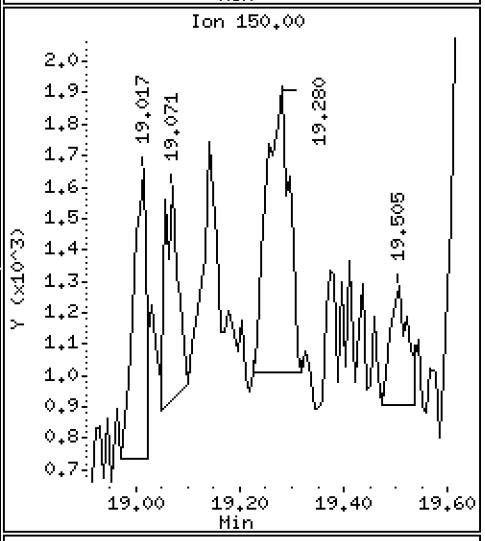
63 Di-n-butylphthalate

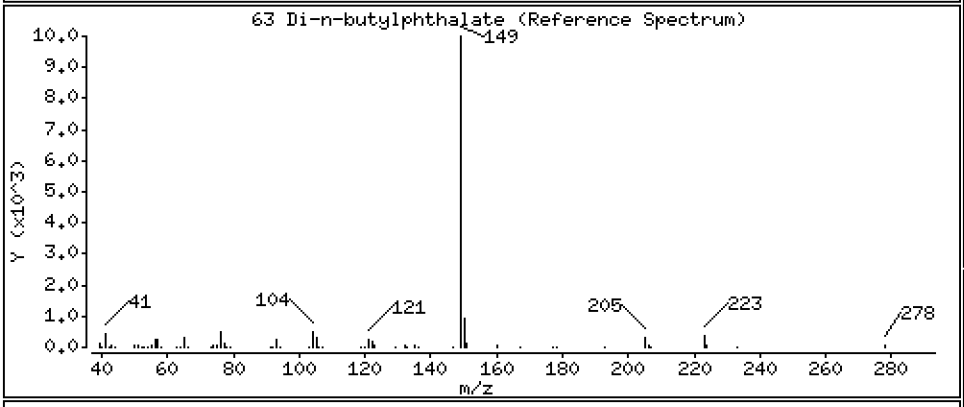
Concentration: 0.05358 ug/mL

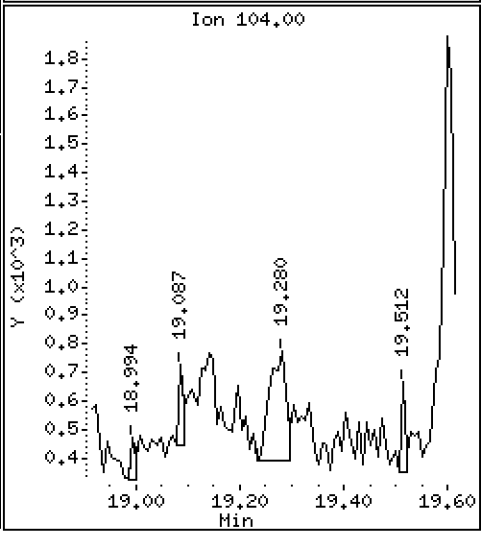


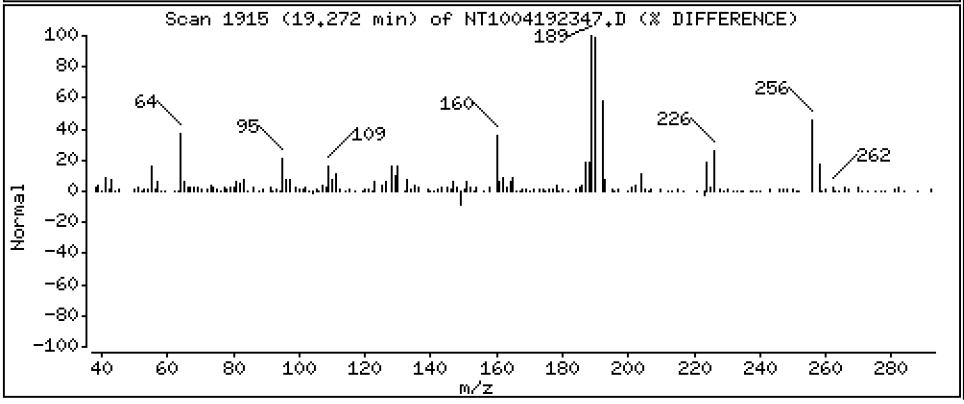












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

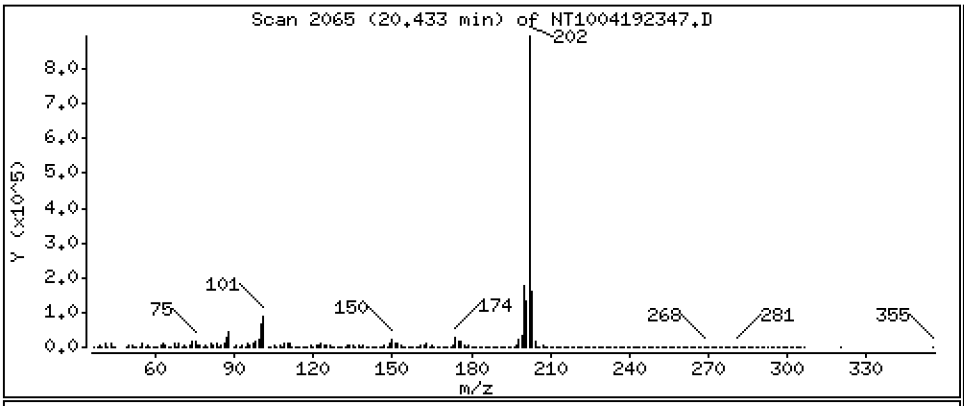
Operator: VTS

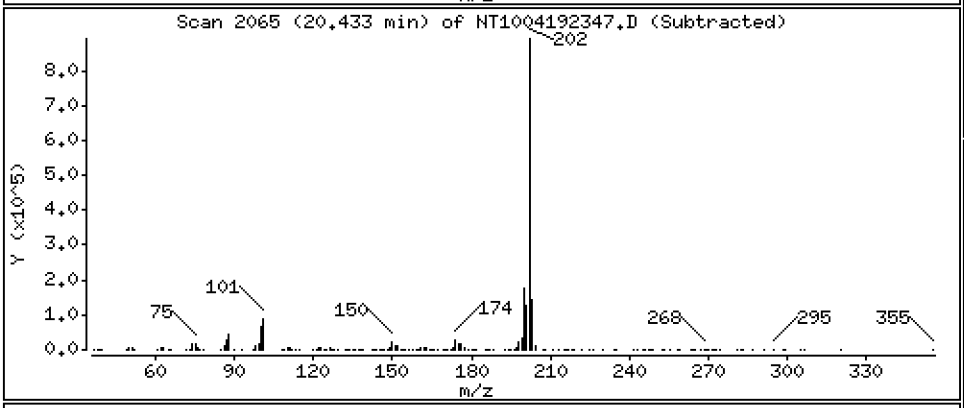
Column phase: ZB-5msi

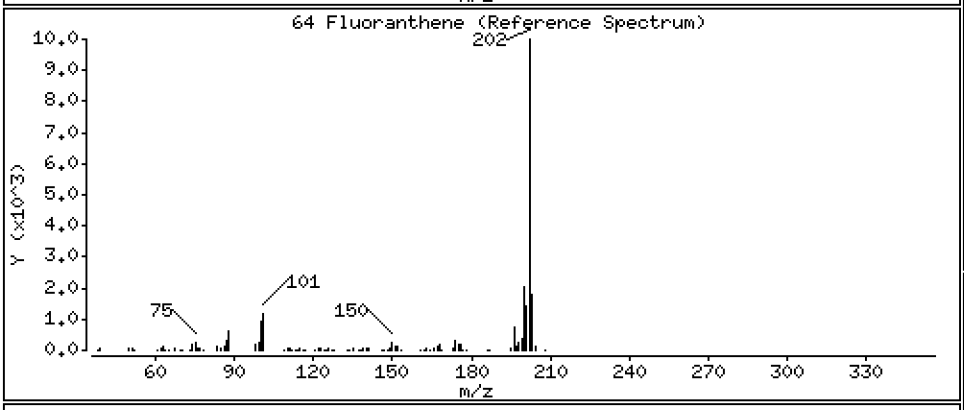
Column diameter: 0.25

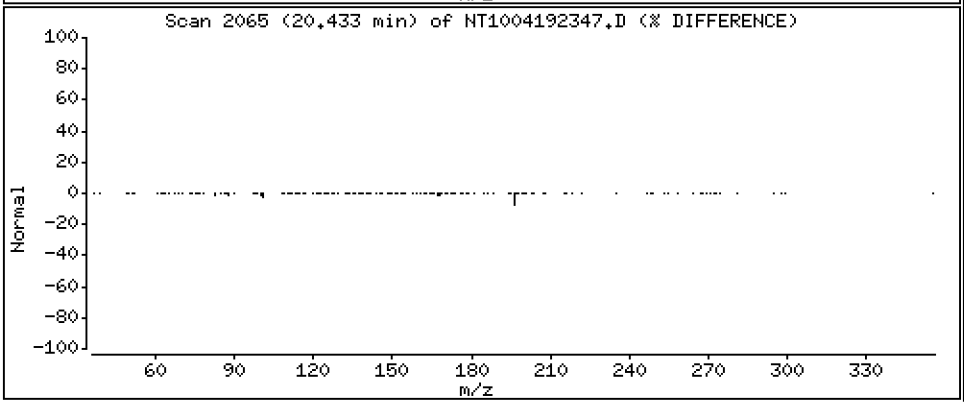
64 Fluoranthene

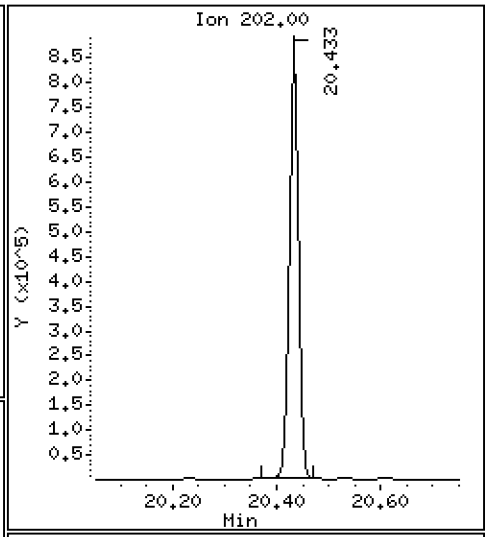
Concentration: 4.603 ug/mL

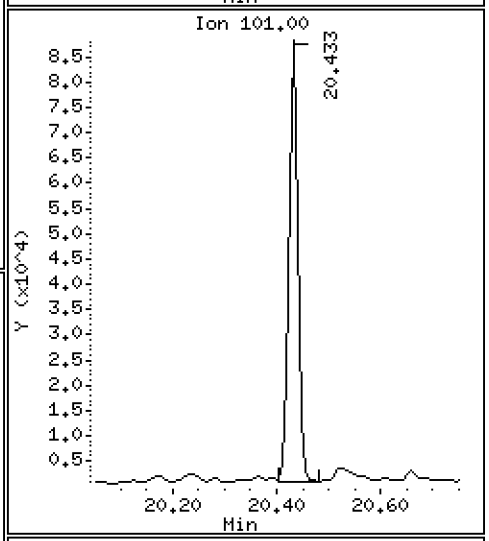


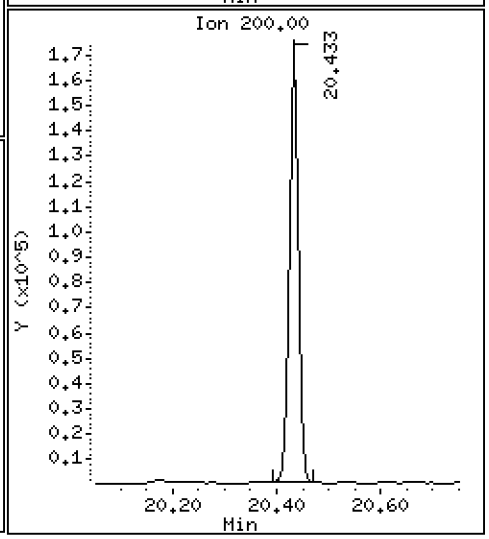












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

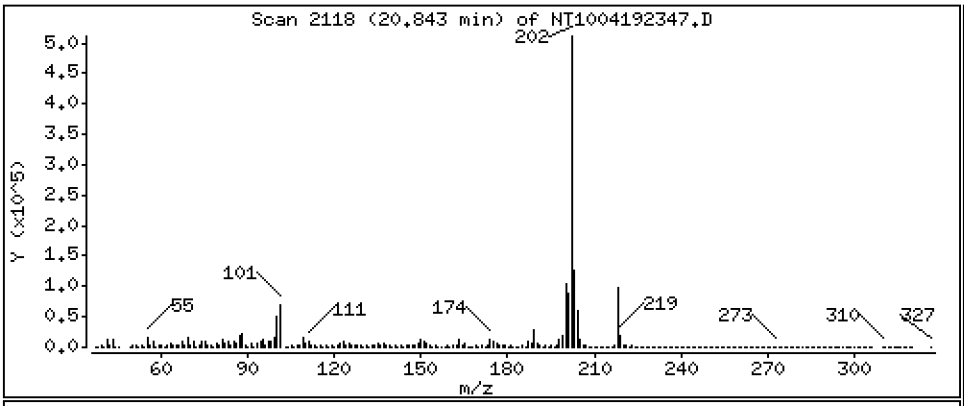
Operator: VTS

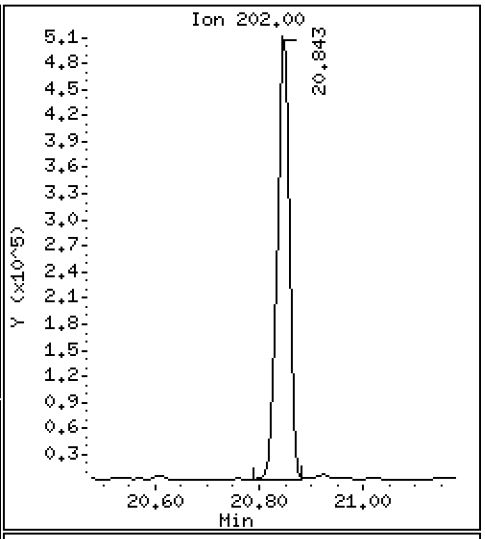
Column phase: ZB-5msi

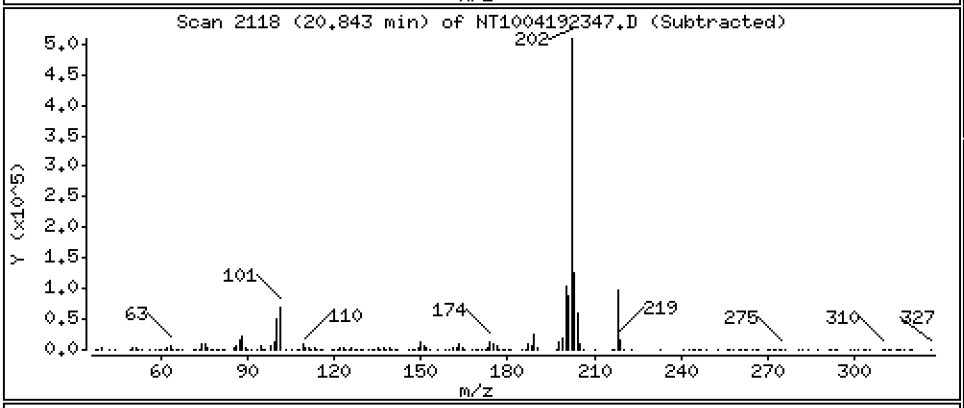
Column diameter: 0.25

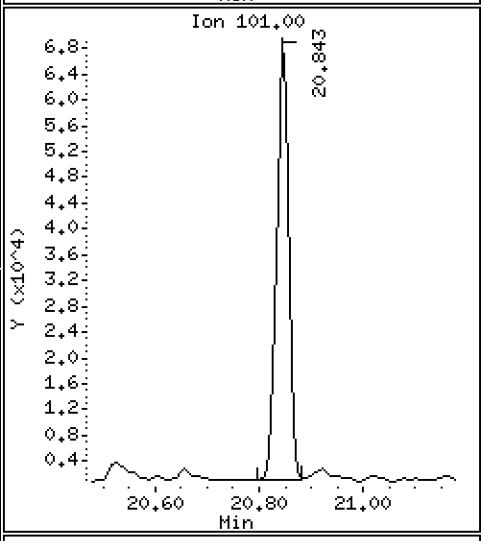
65 Pyrene

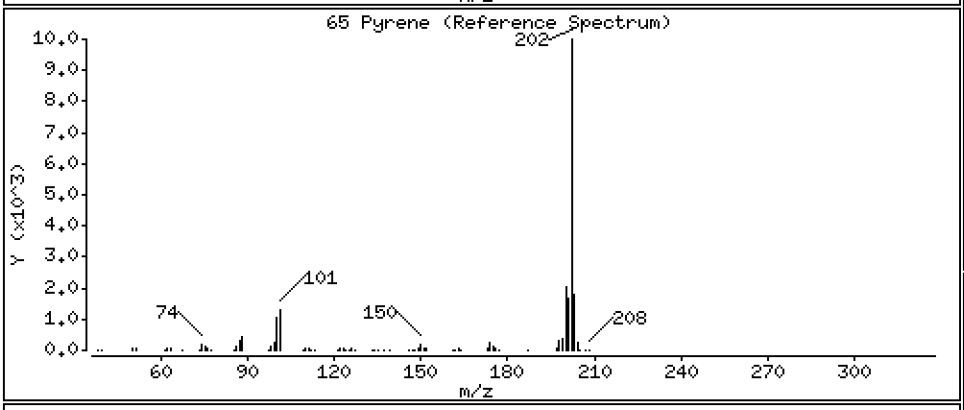
Concentration: 3.367 ug/mL

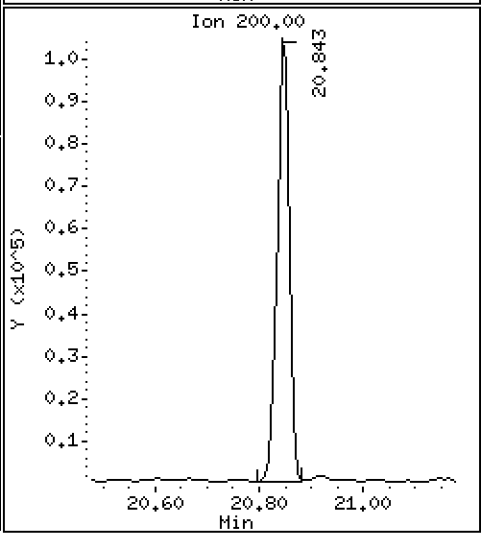


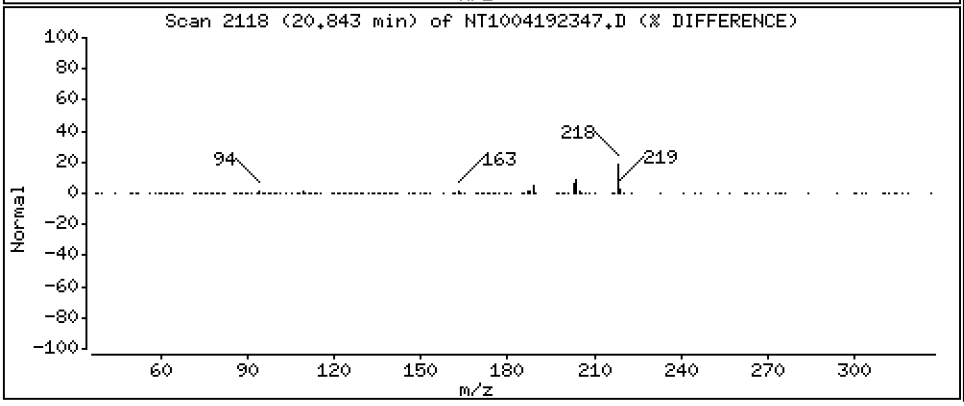












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

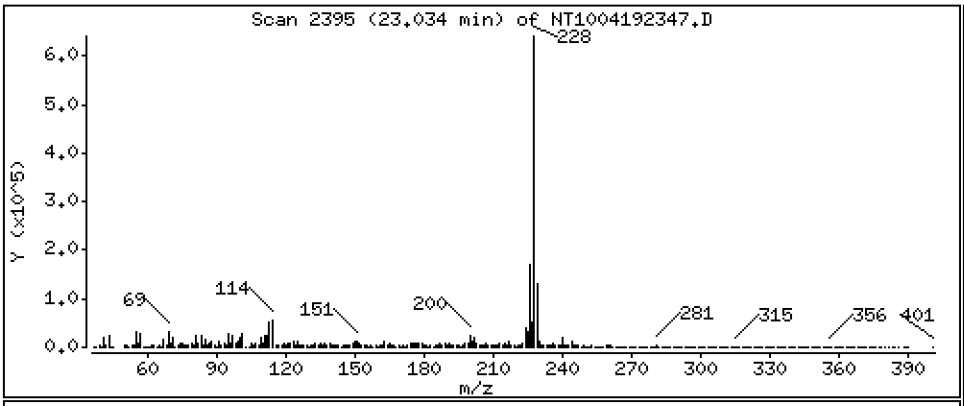
Operator: VTS

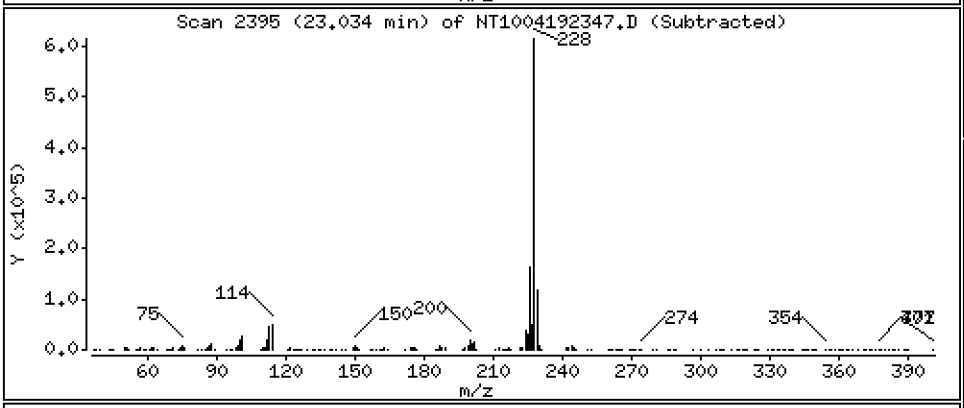
Column phase: ZB-5msi

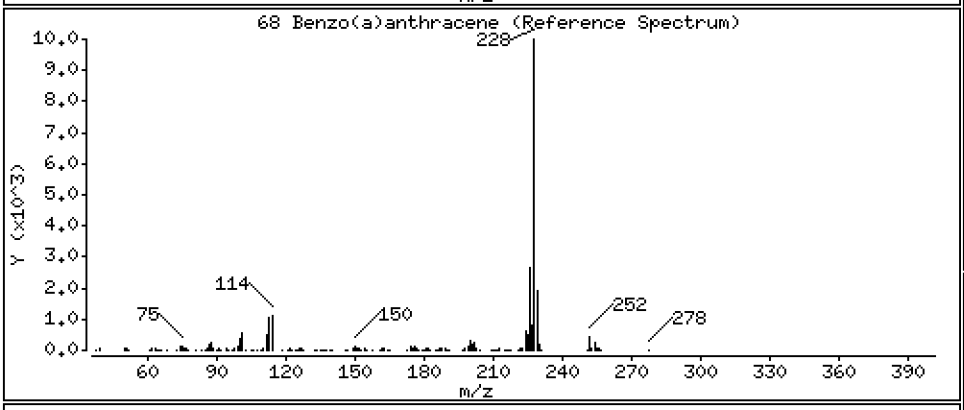
Column diameter: 0.25

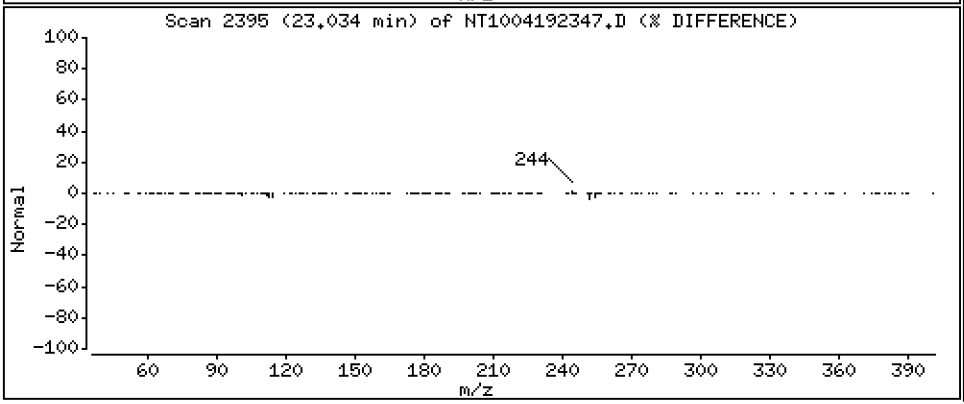
68 Benzo(a)anthracene

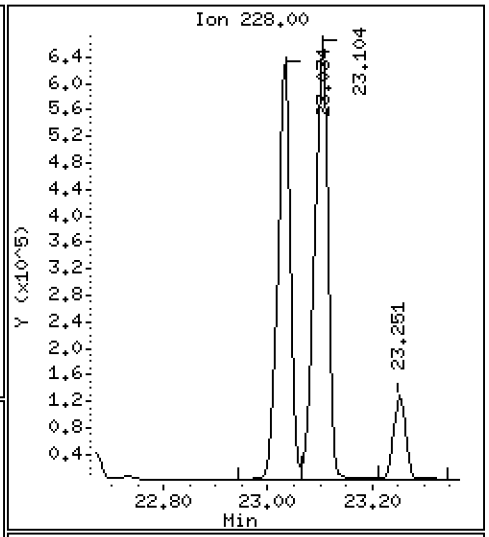
Concentration: 5.052 ug/mL

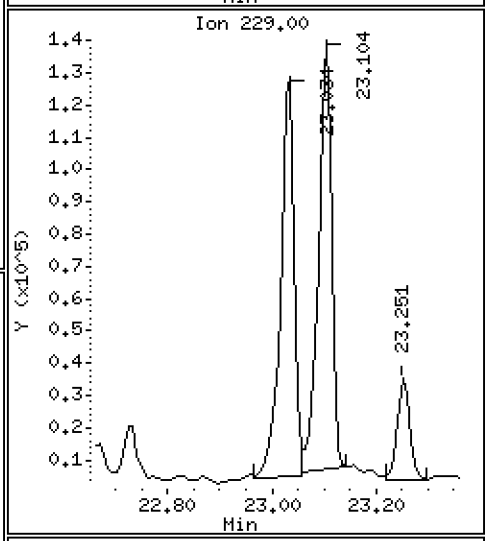


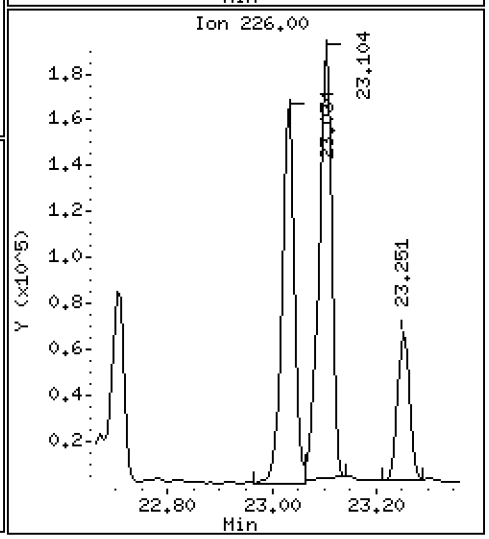












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

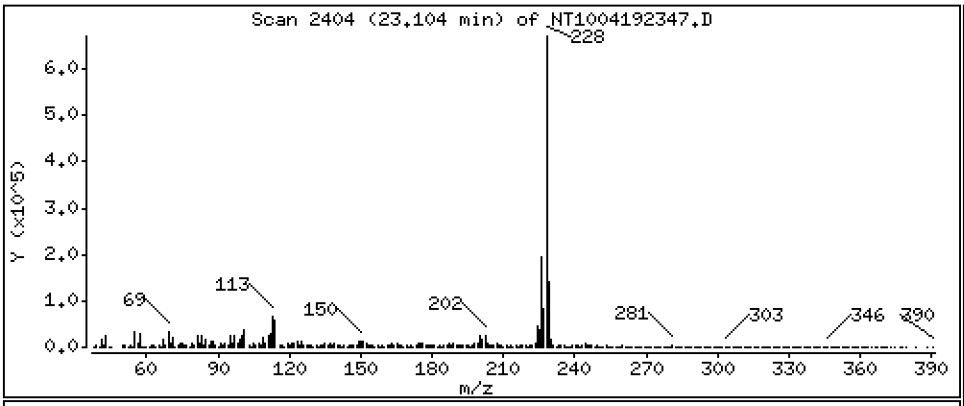
Operator: VTS

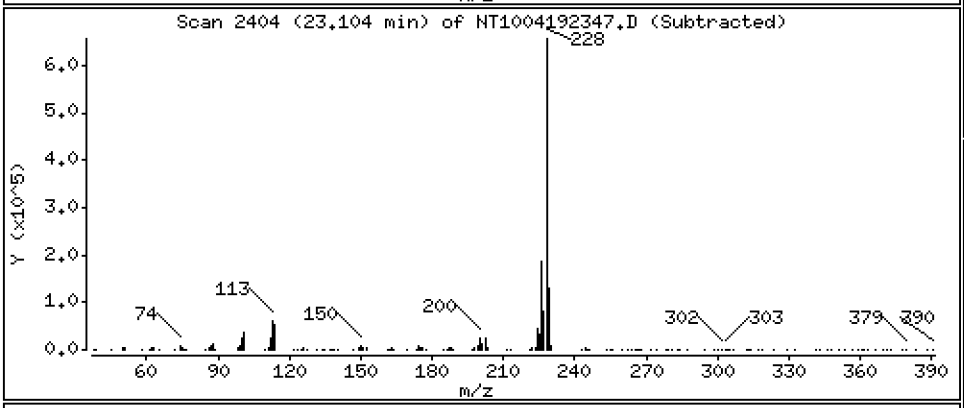
Column phase: ZB-5msi

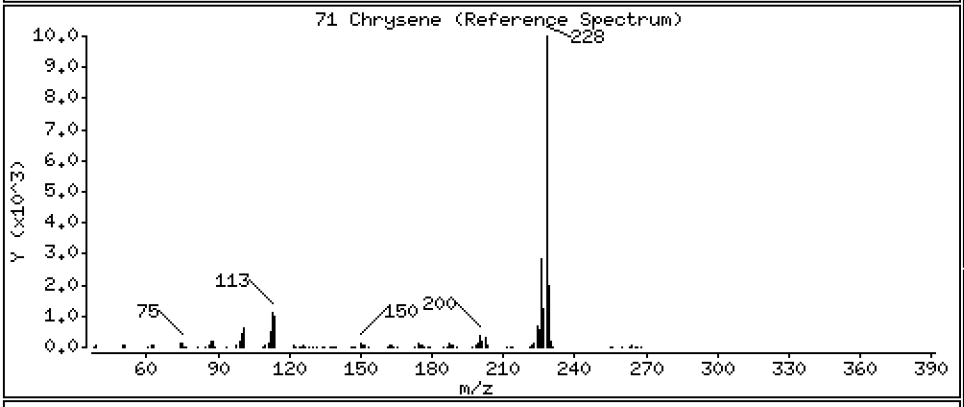
Column diameter: 0.25

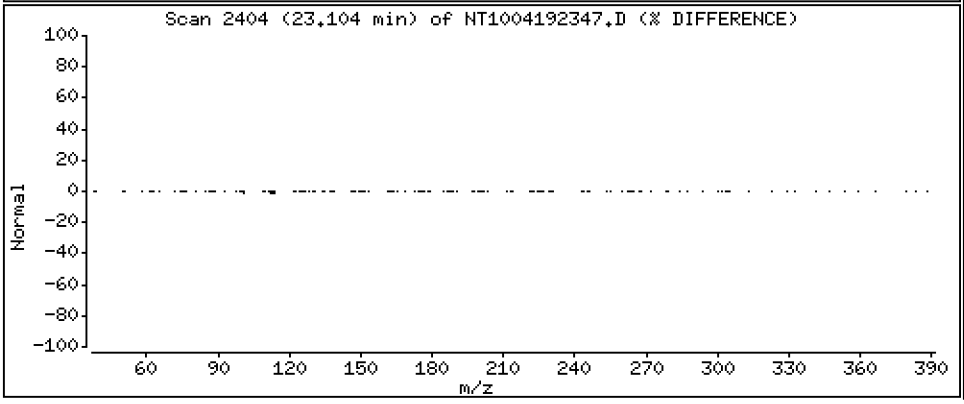
71 Chrysene

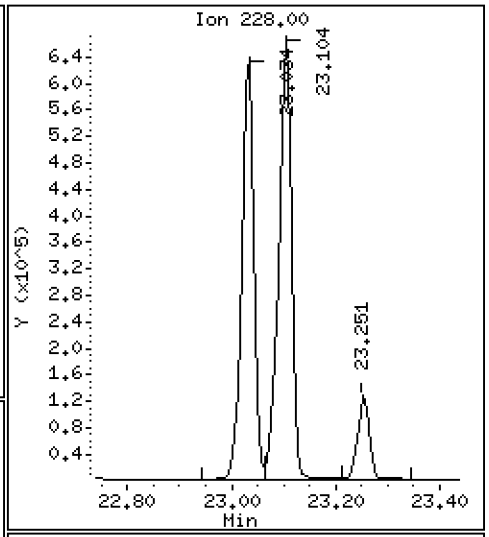
Concentration: 5.609 ug/mL

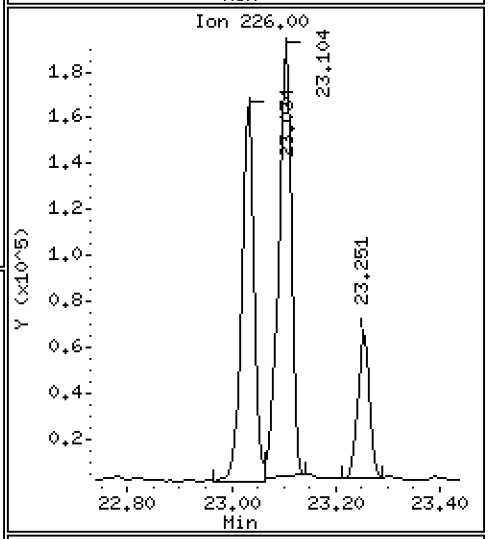


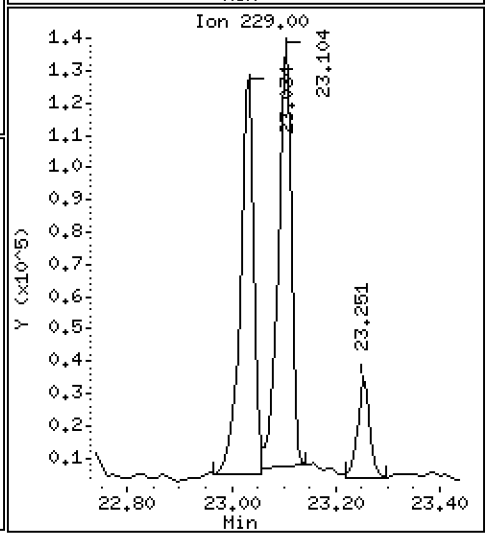












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

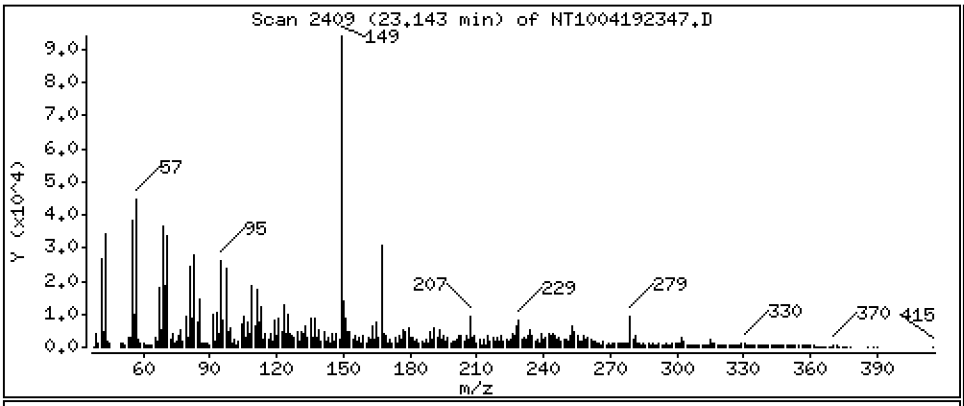
Operator: VTS

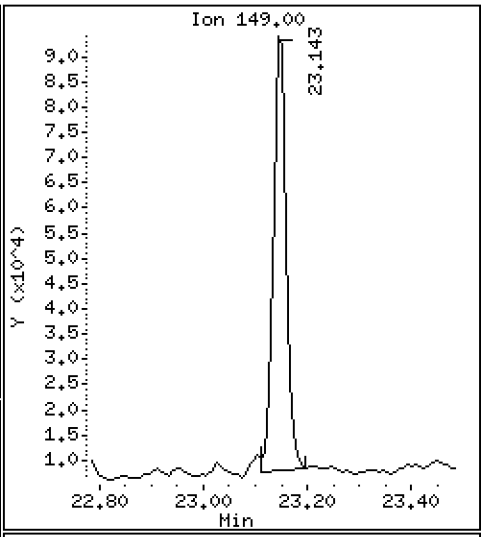
Column phase: ZB-5msi

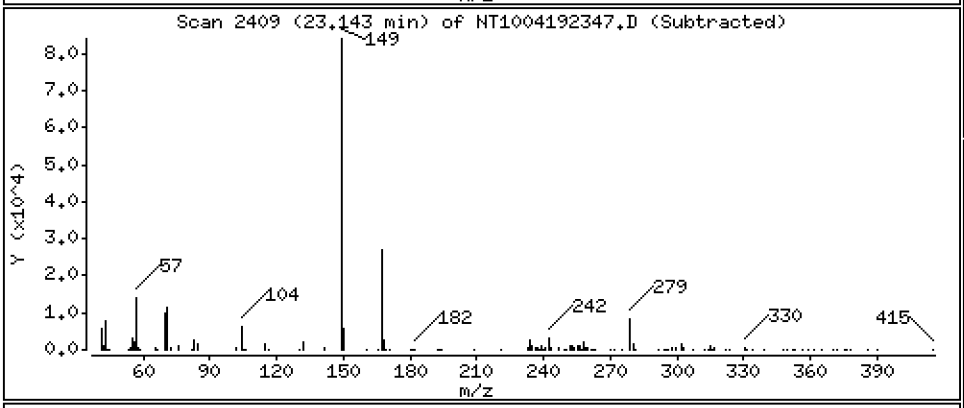
Column diameter: 0.25

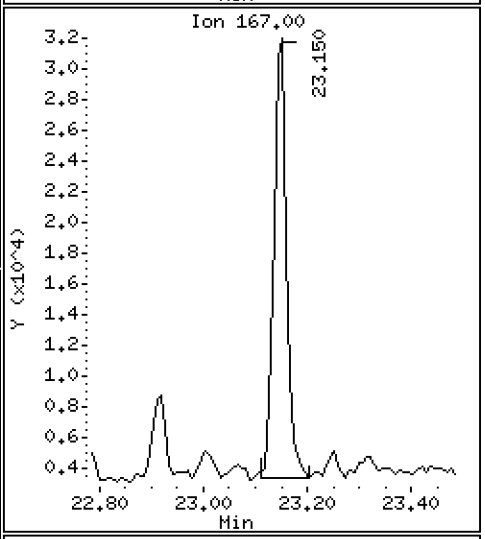
72 bis(2-Ethylhexyl)phthalate

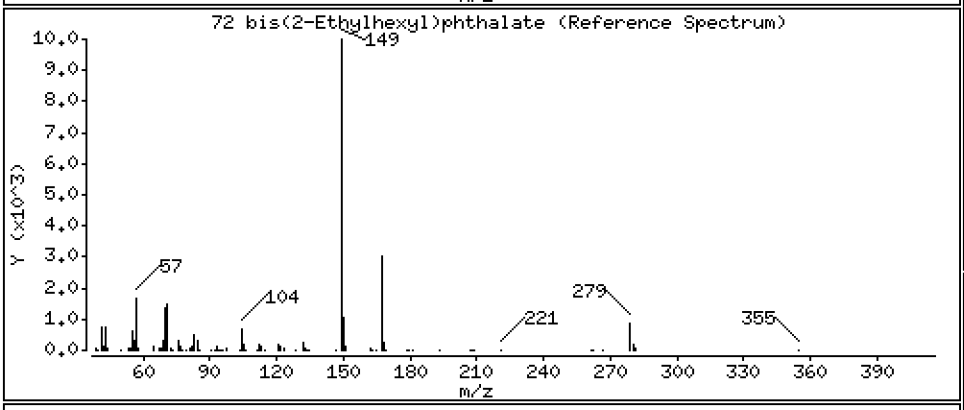
Concentration: 1.083 ug/mL

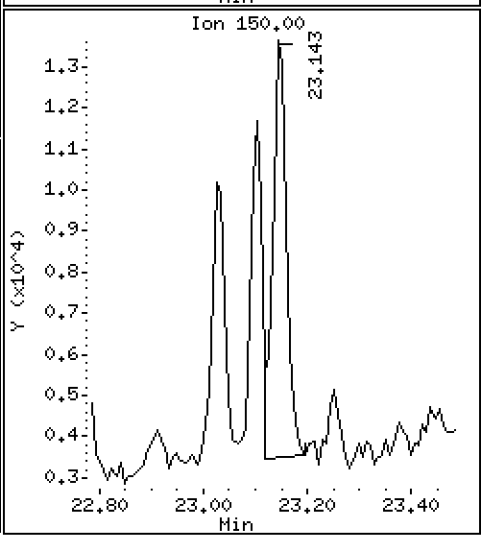


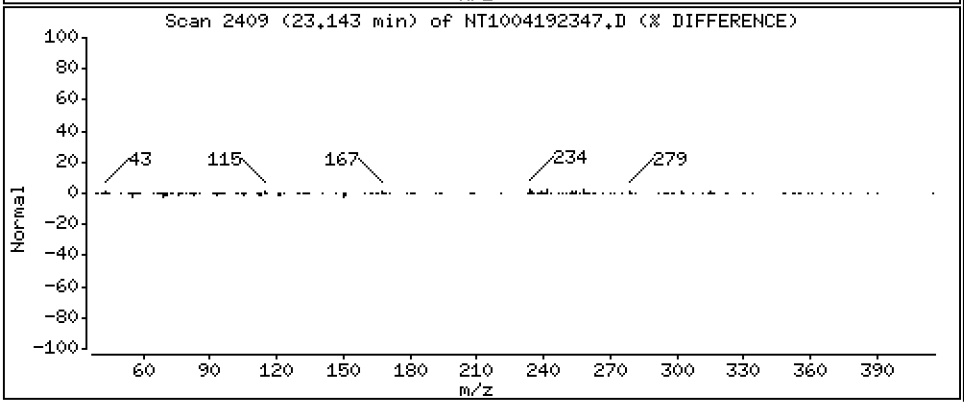












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

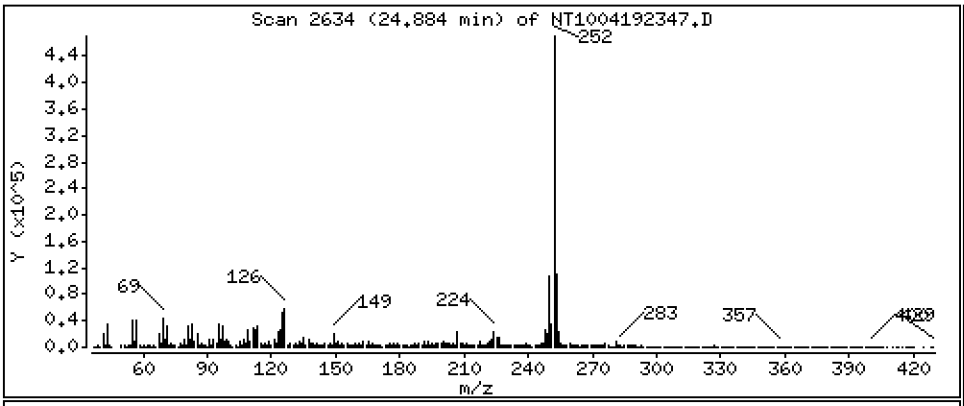
Operator: VTS

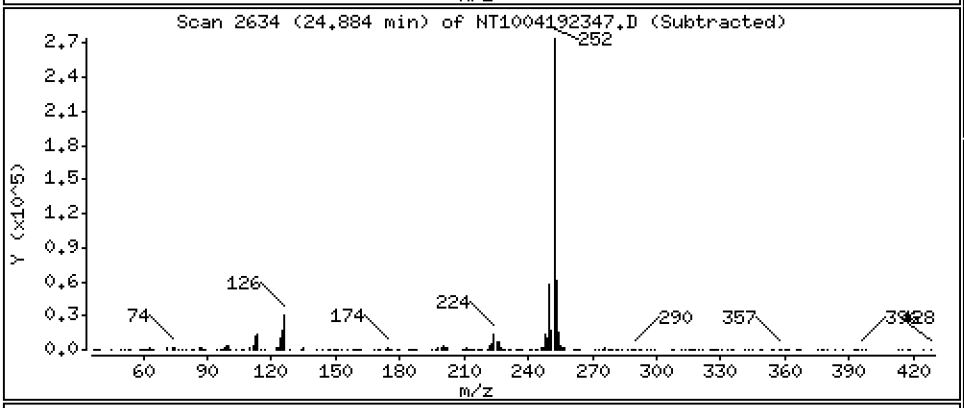
Column phase: ZB-5msi

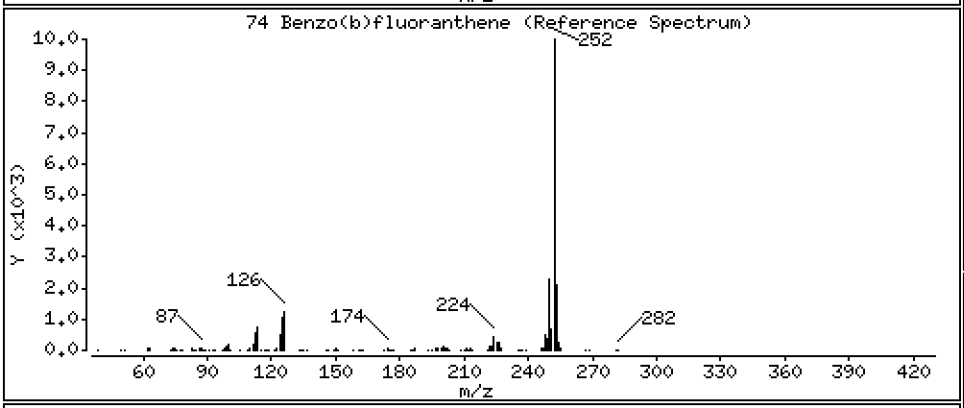
Column diameter: 0.25

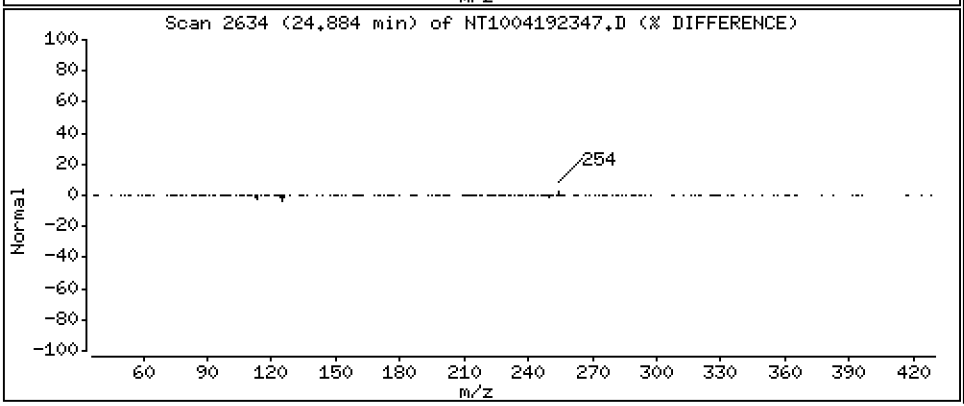
74 Benzo(b)fluoranthene

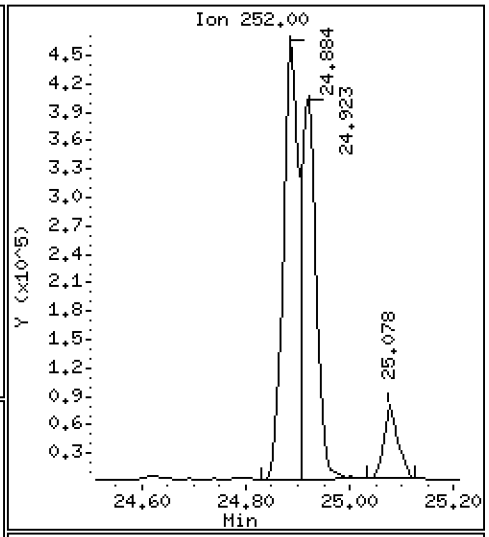
Concentration: 4.502 ug/mL

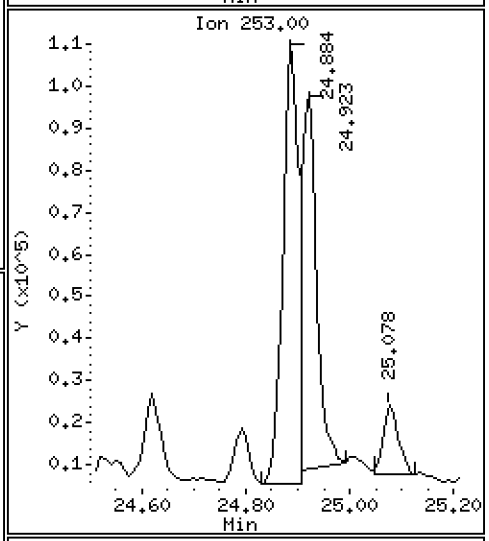


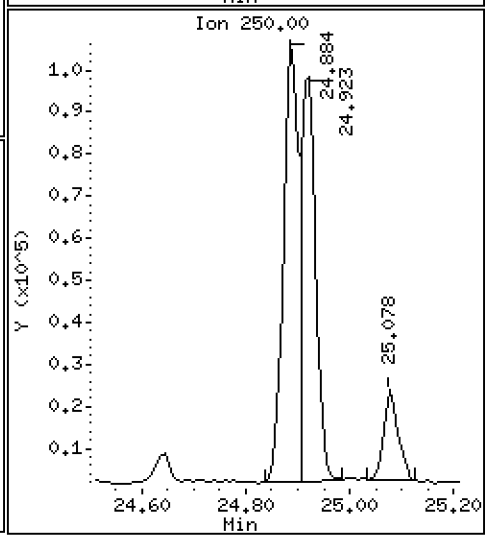












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

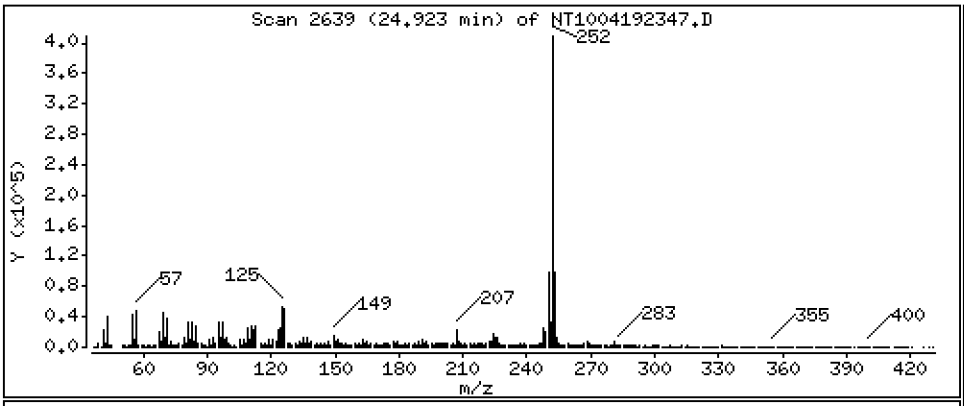
Operator: VTS

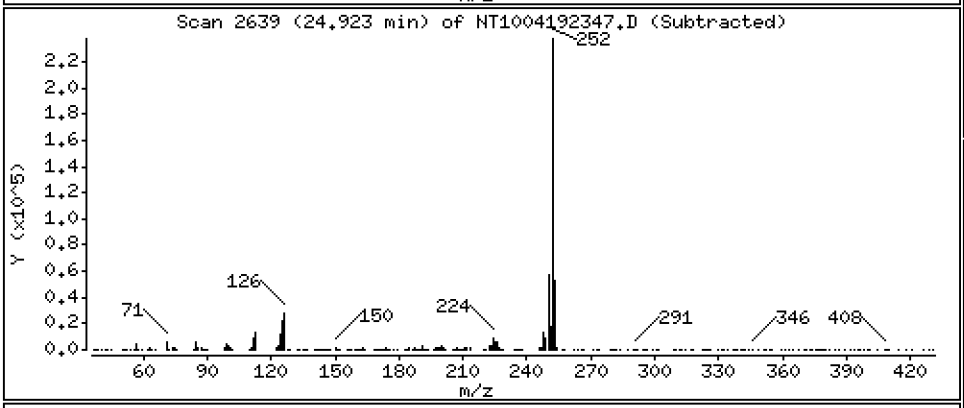
Column phase: ZB-5msi

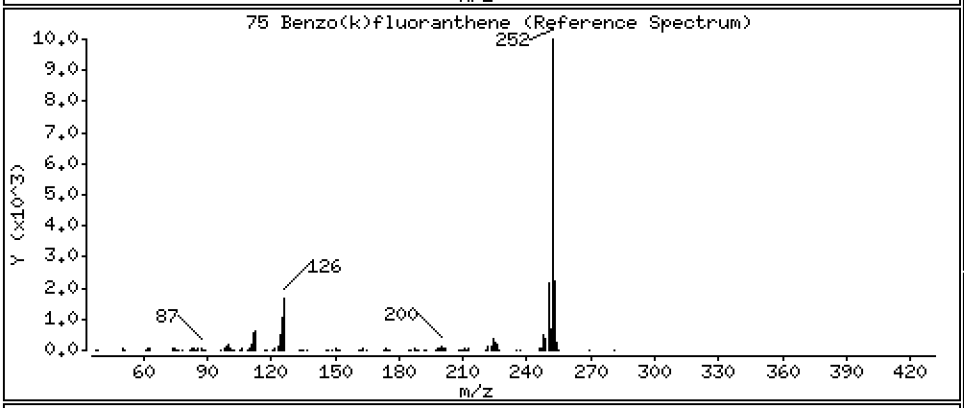
Column diameter: 0.25

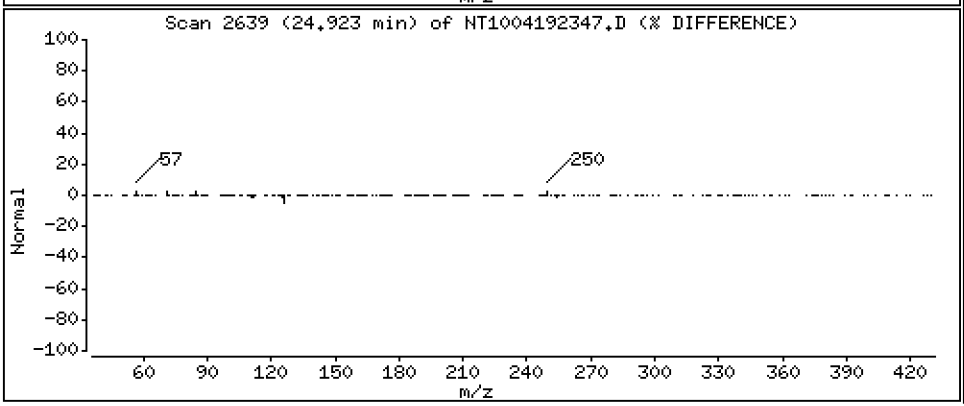
75 Benzo(k)fluoranthene

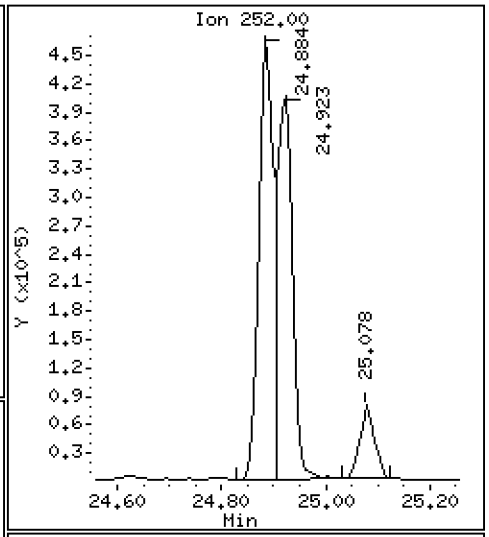
Concentration: 3.506 ug/mL

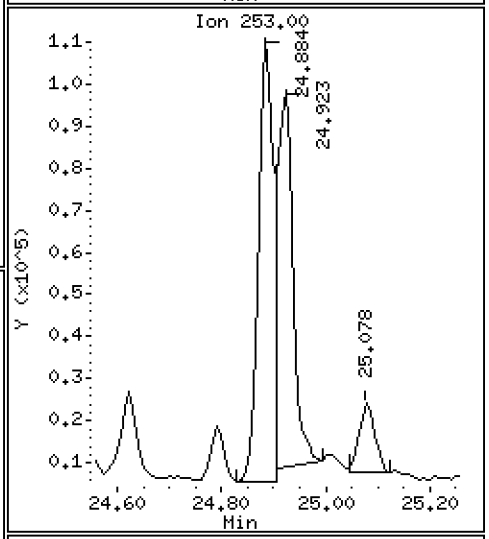


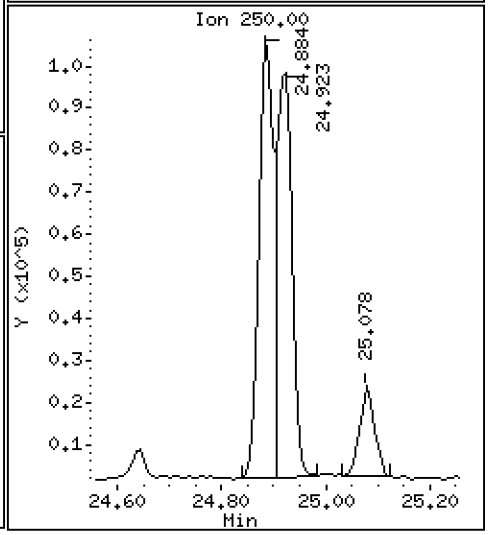












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

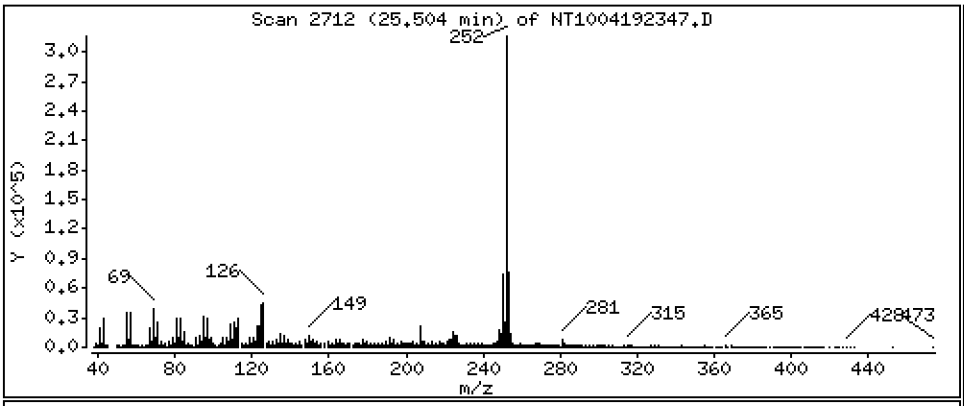
Operator: VTS

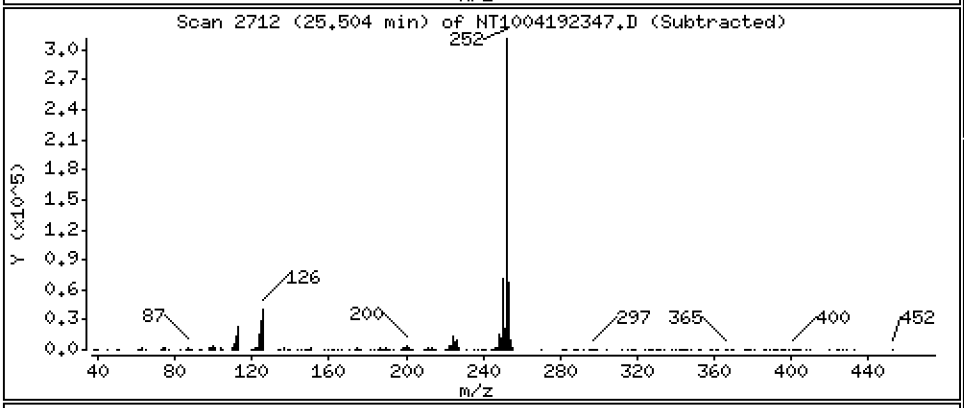
Column phase: ZB-5msi

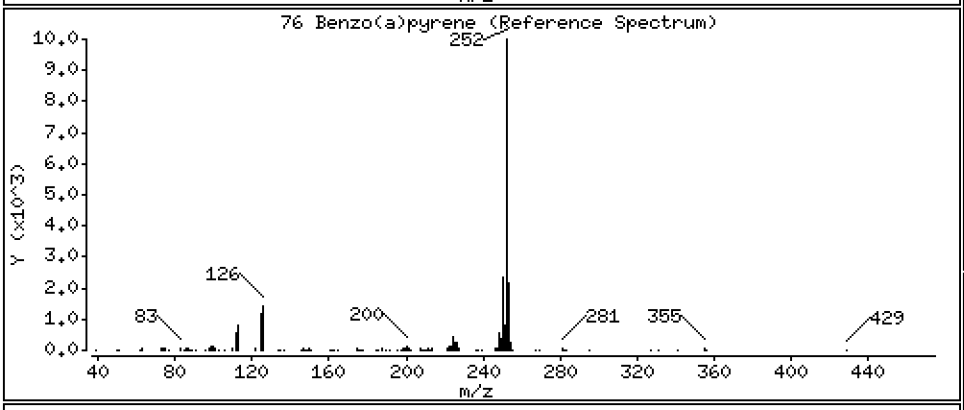
Column diameter: 0.25

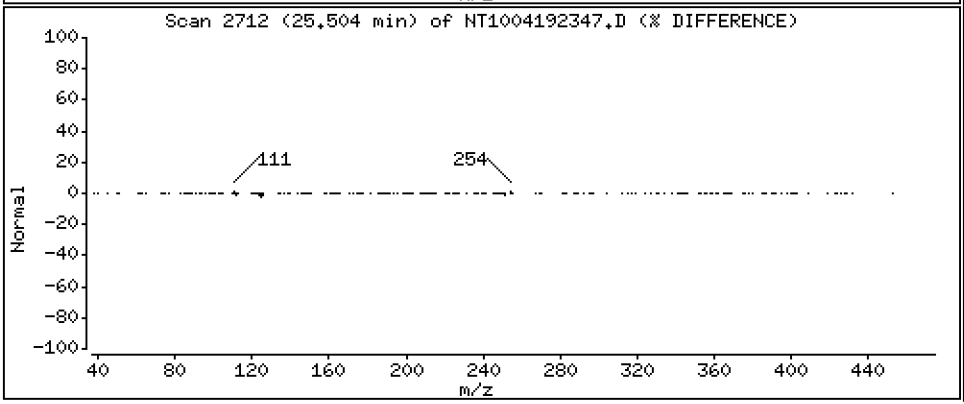
76 Benzo(a)pyrene

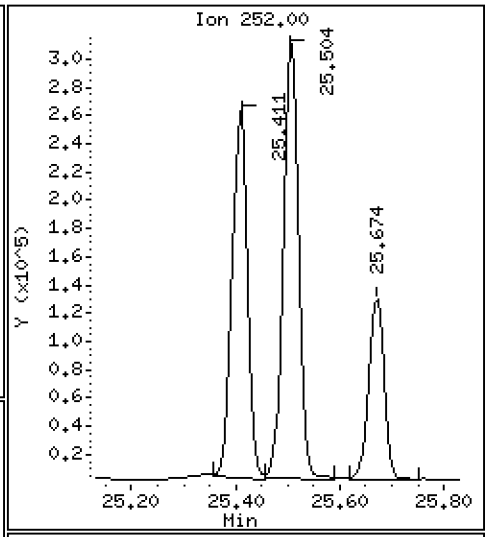
Concentration: 3.232 ug/mL

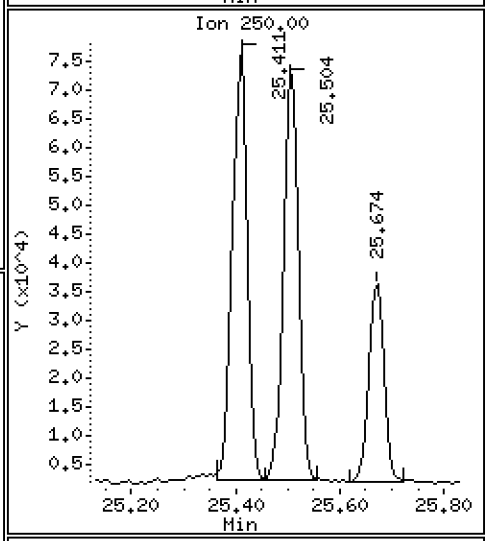


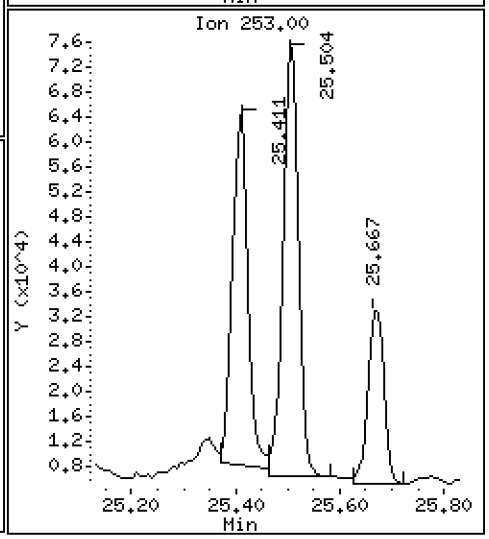












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

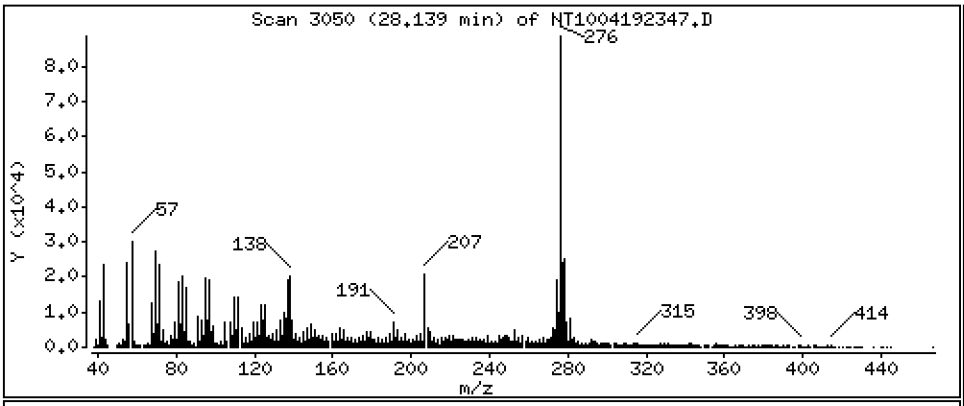
Operator: VTS

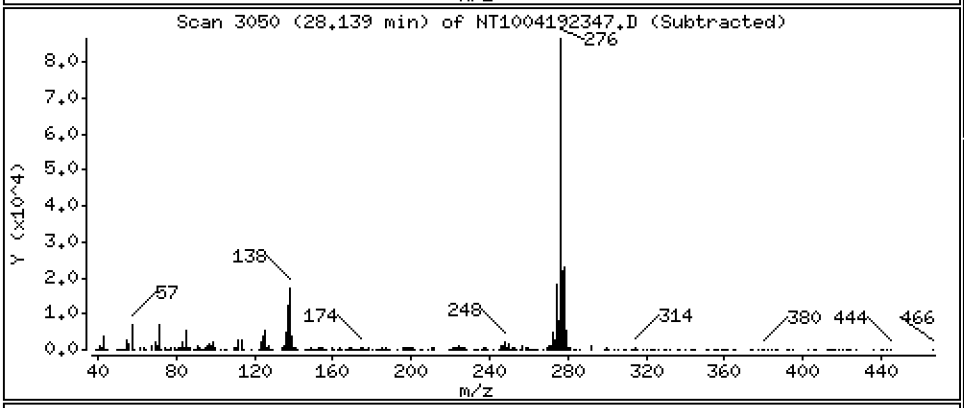
Column phase: ZB-5msi

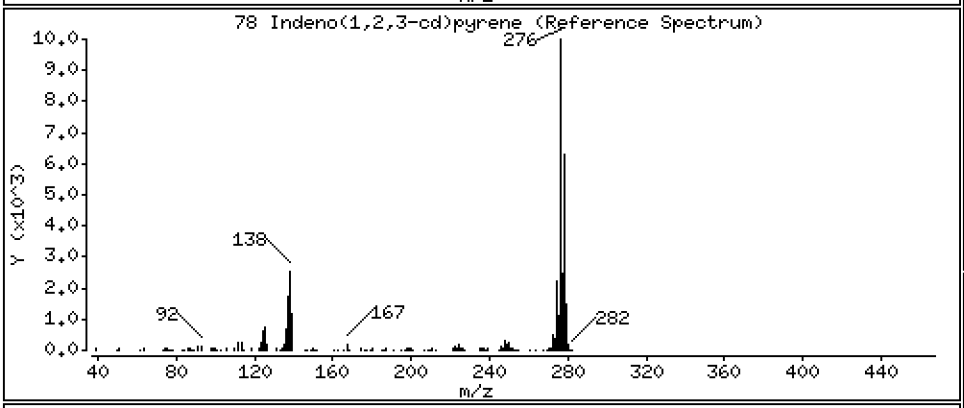
Column diameter: 0.25

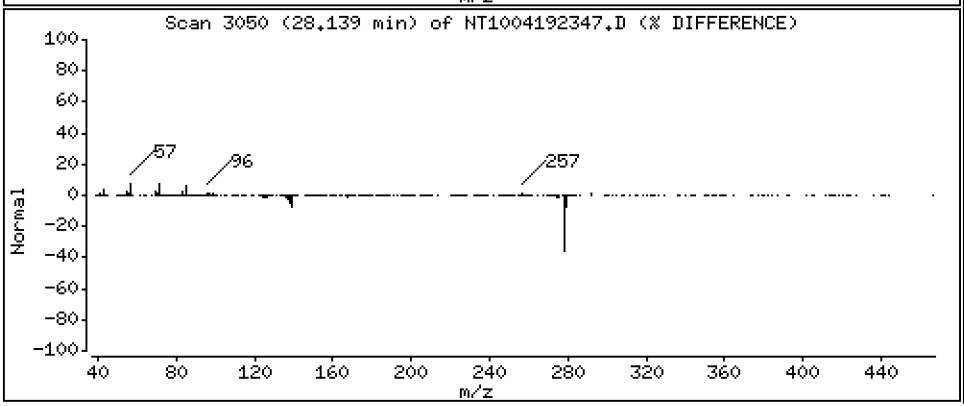
78 Indeno(1,2,3-cd)pyrene

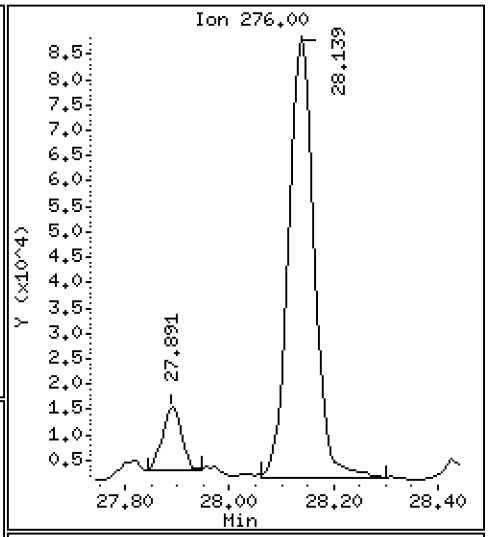
Concentration: 1.186 ug/mL

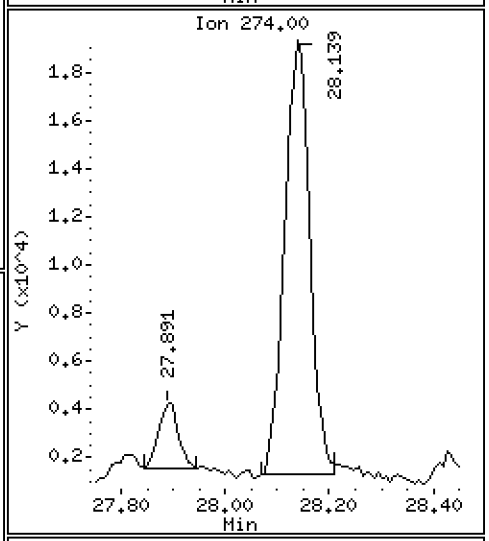


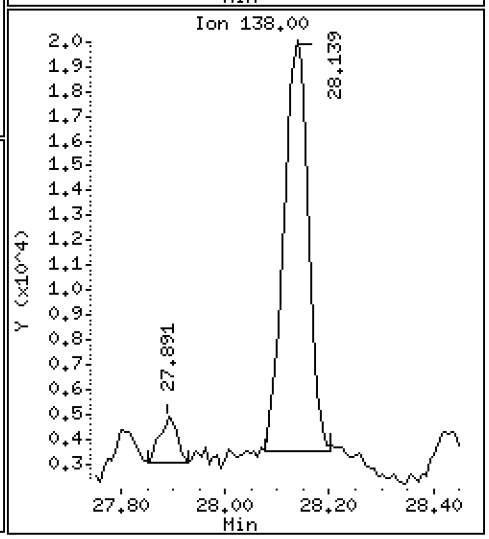












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

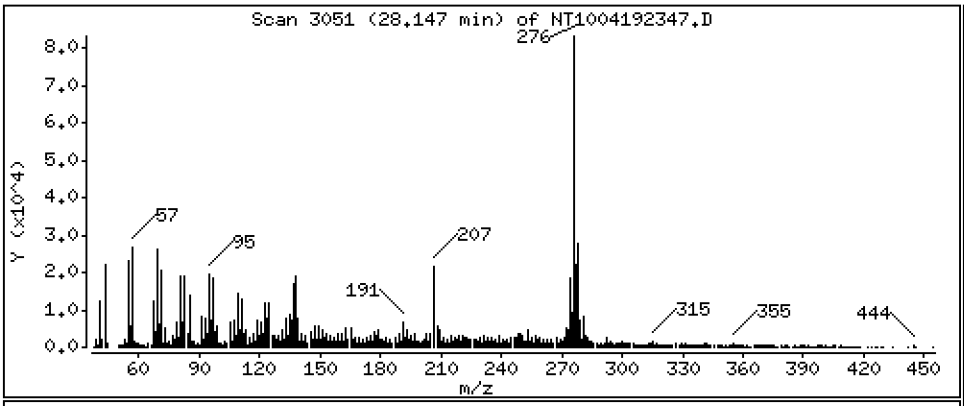
Operator: VTS

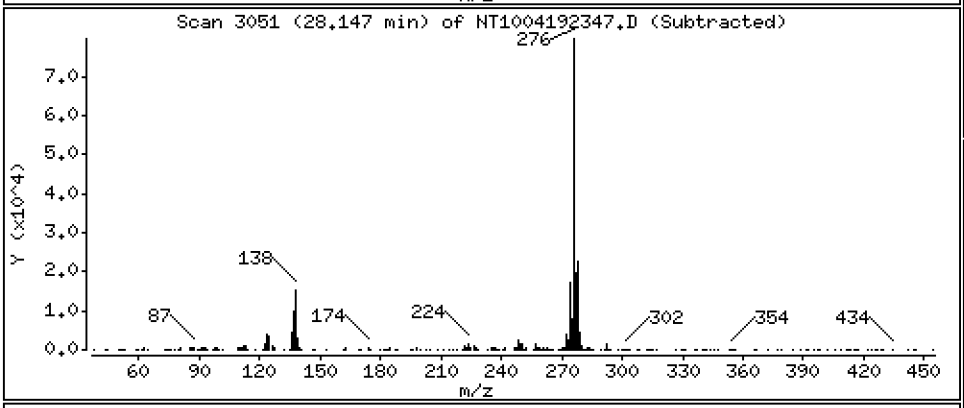
Column phase: ZB-5msi

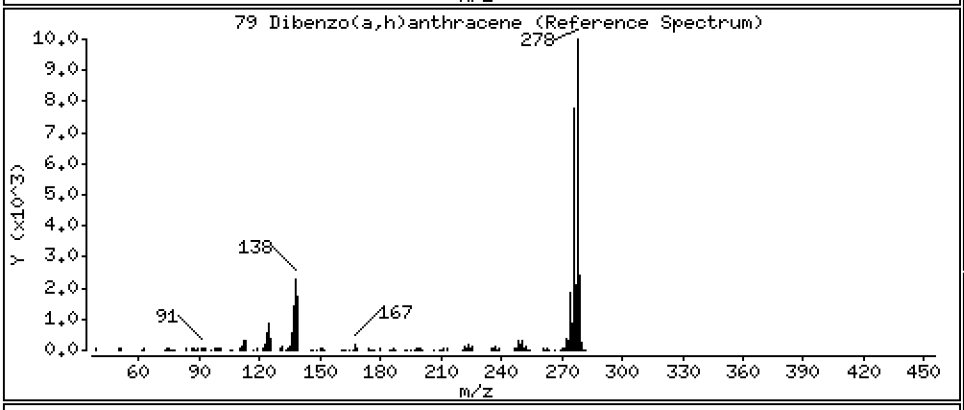
Column diameter: 0.25

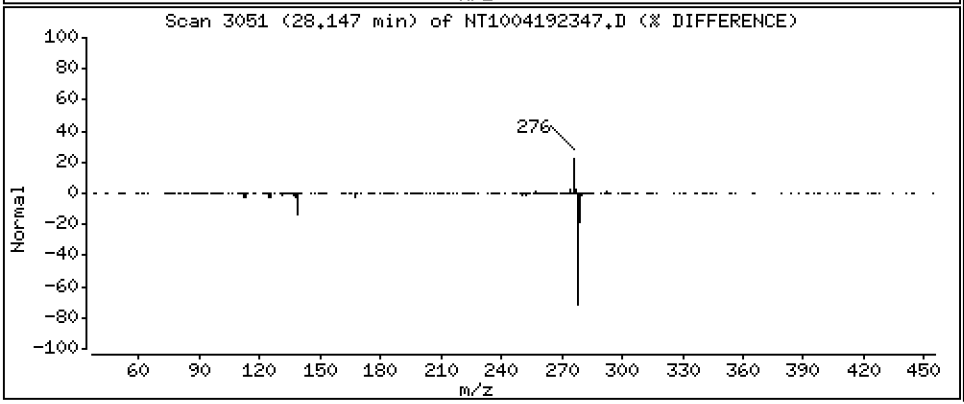
79 Dibenzo(a,h)anthracene

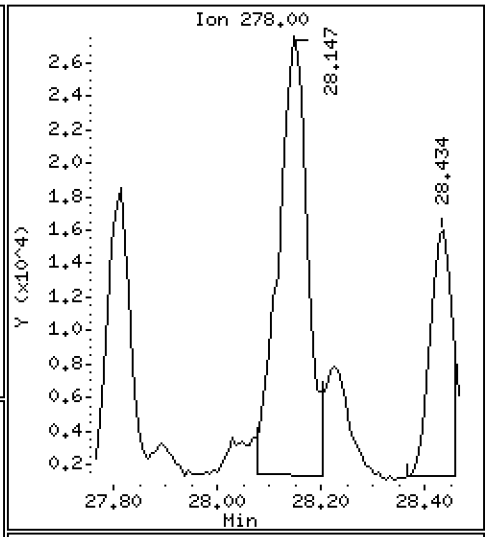
Concentration: 0.4881 ug/mL

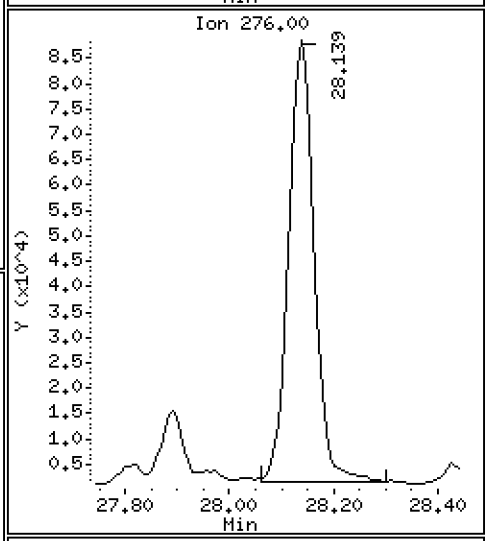


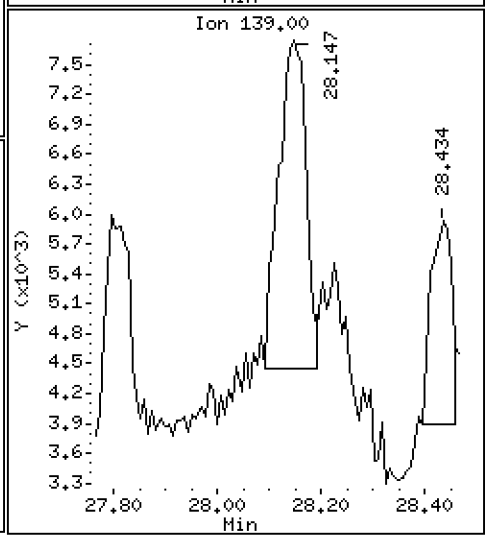












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

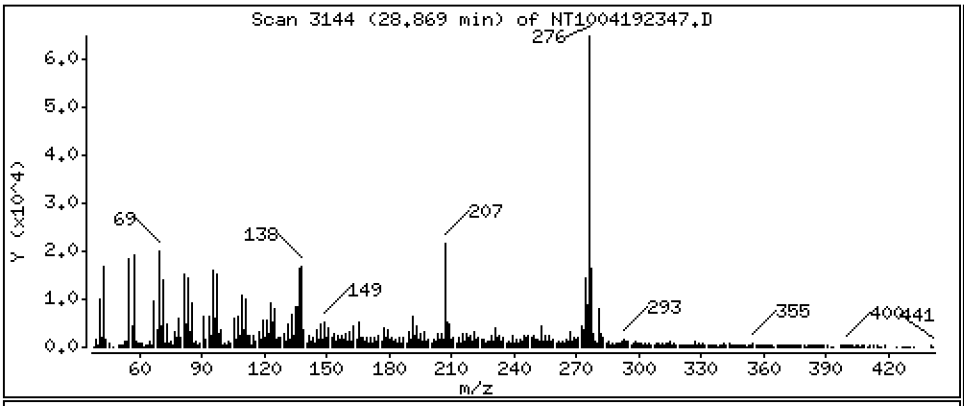
Operator: VTS

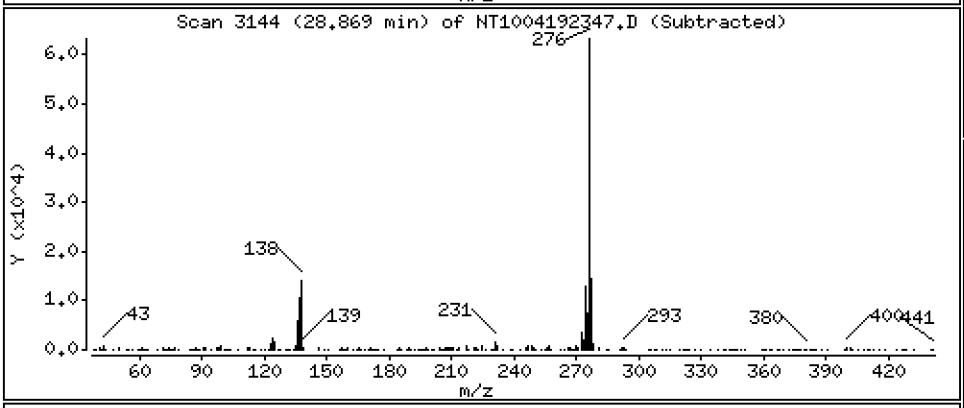
Column phase: ZB-5msi

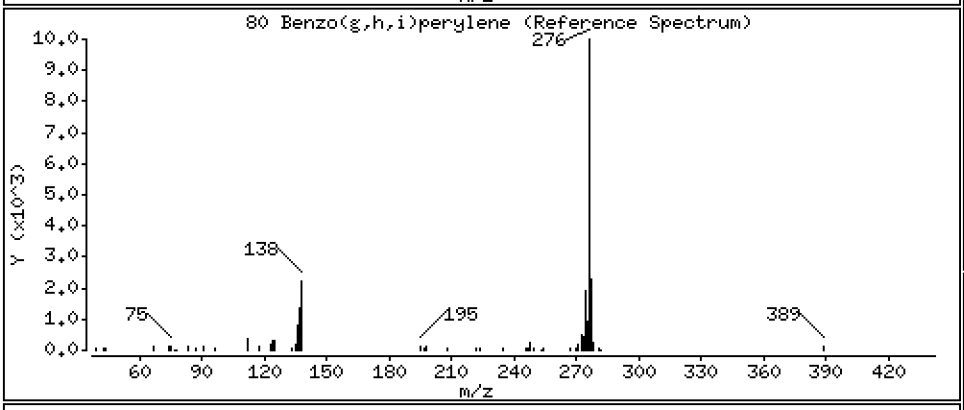
Column diameter: 0.25

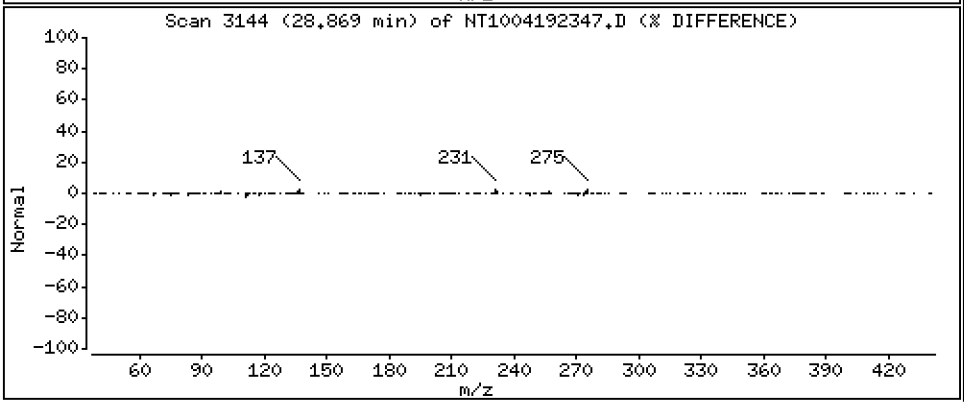
80 Benzo(g,h,i)perylene

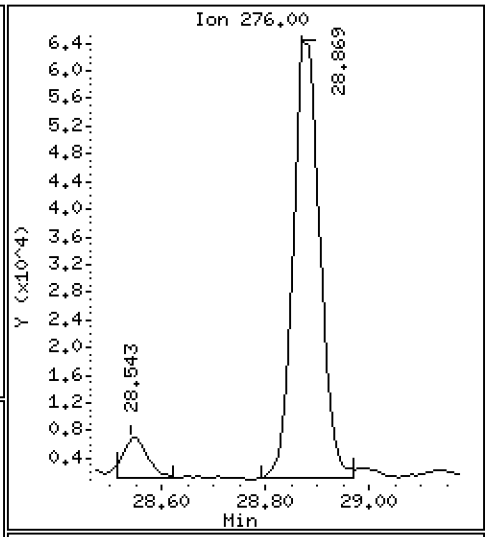
Concentration: 1.033 ug/mL

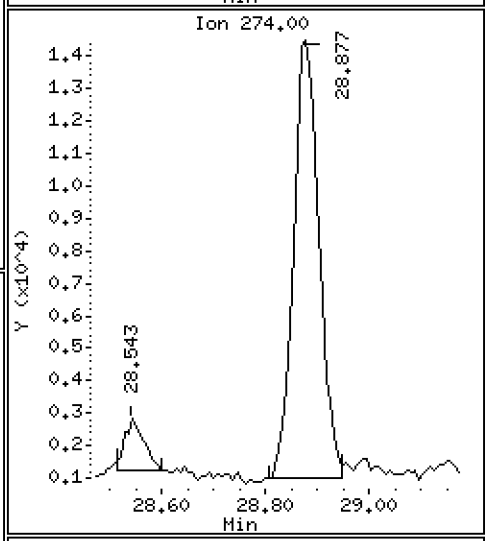


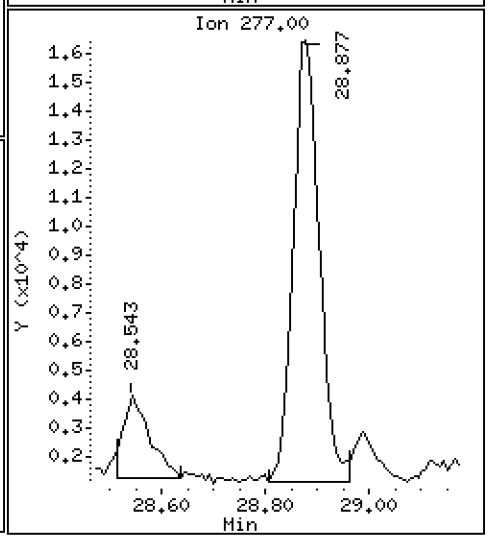












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

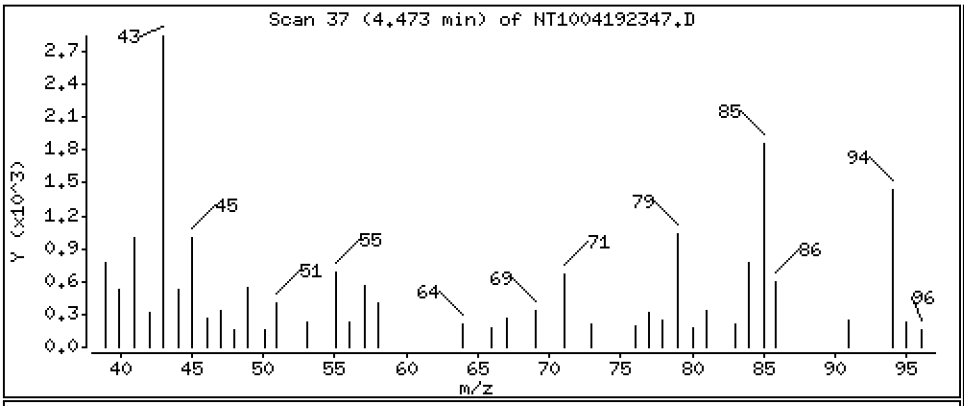
Operator: VTS

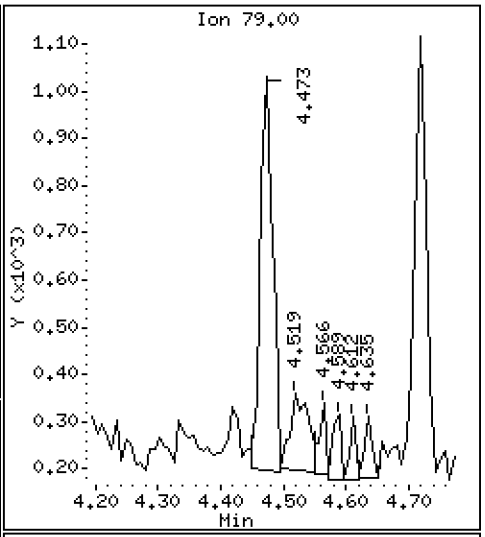
Column phase: ZB-5msi

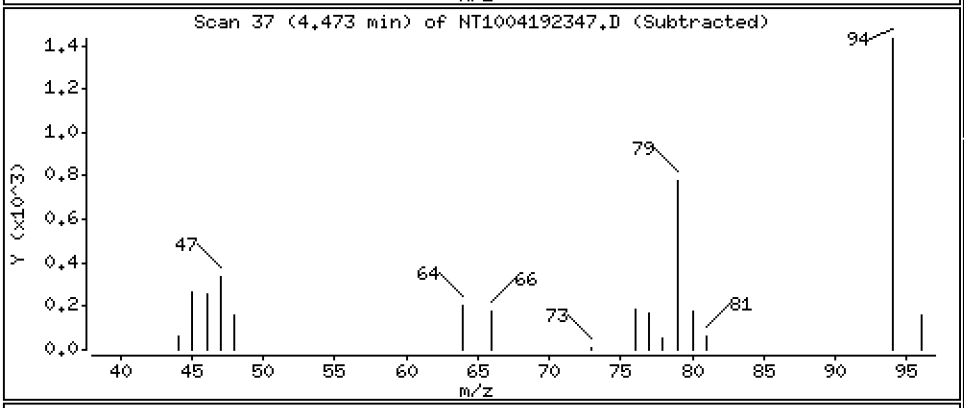
Column diameter: 0.25

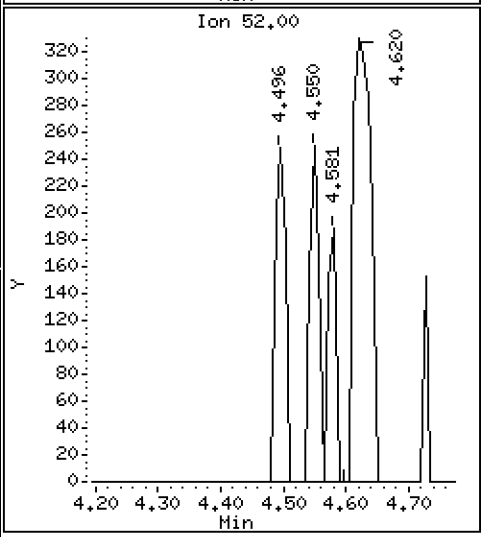
103 Pyridine

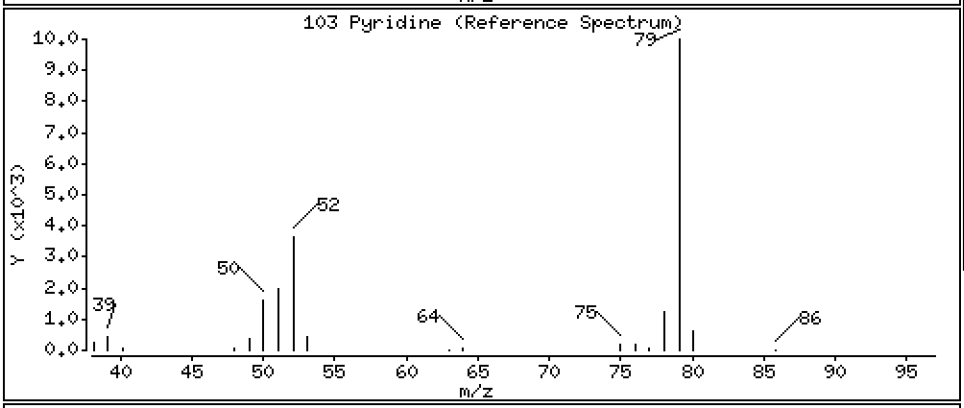
Concentration: 0.02594 ug/mL

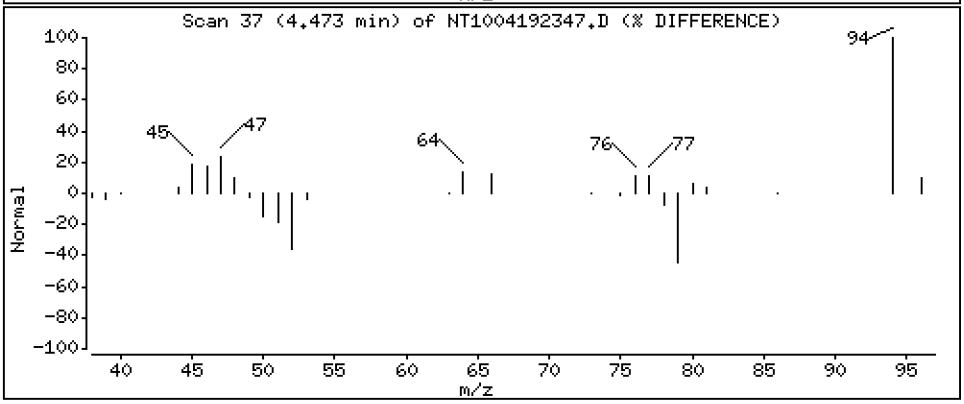












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

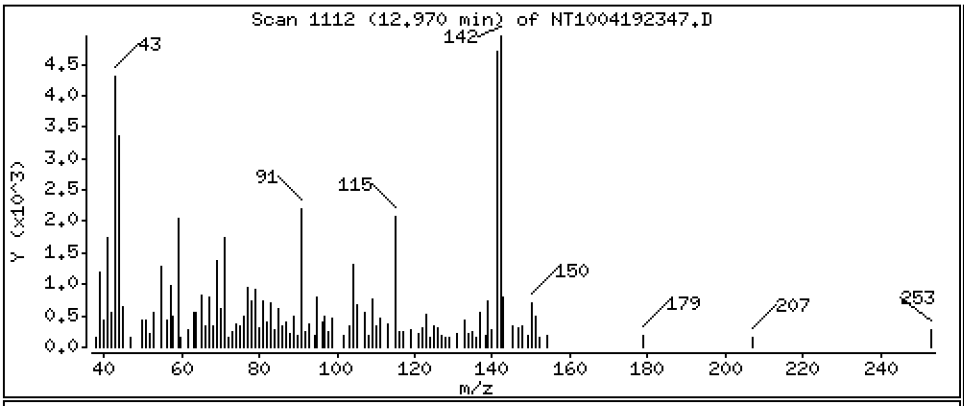
Operator: VTS

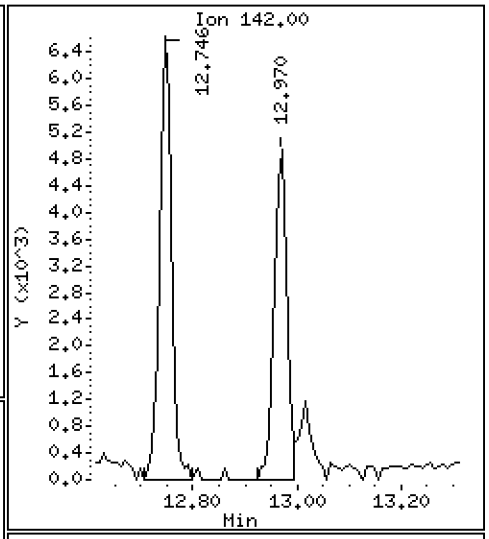
Column phase: ZB-5msi

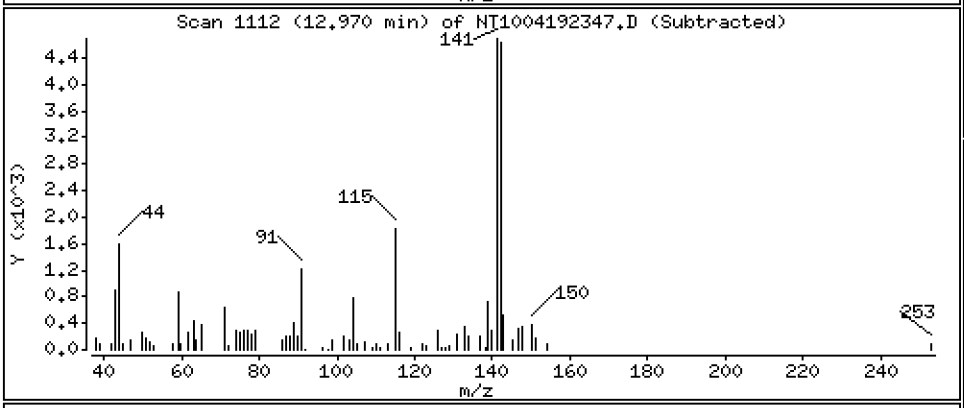
Column diameter: 0.25

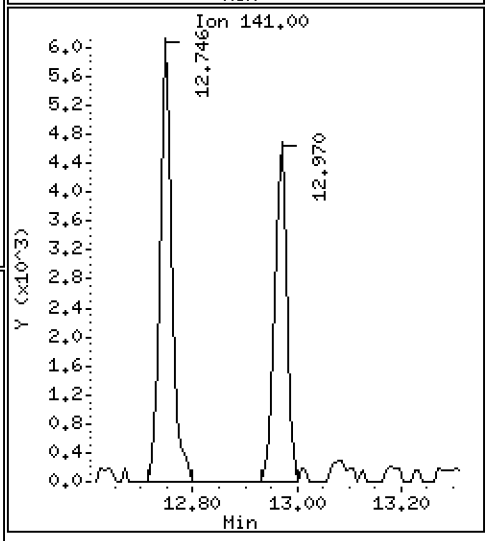
105 1-methylnaphthalene

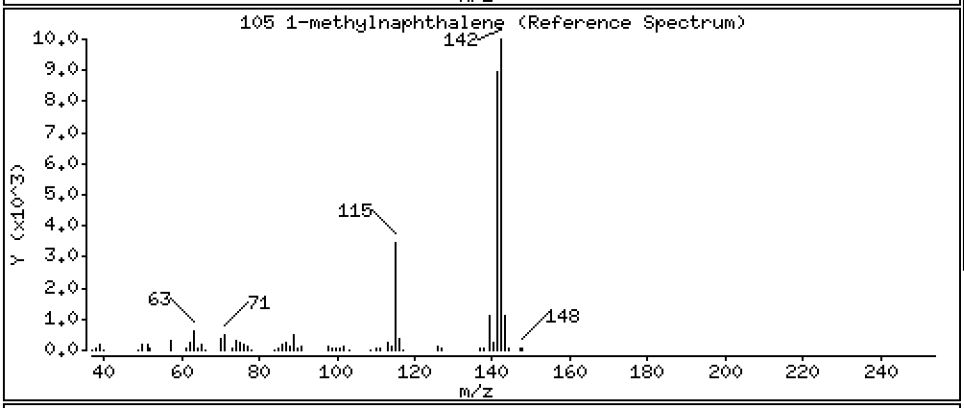
Concentration: 0.08408 ug/mL

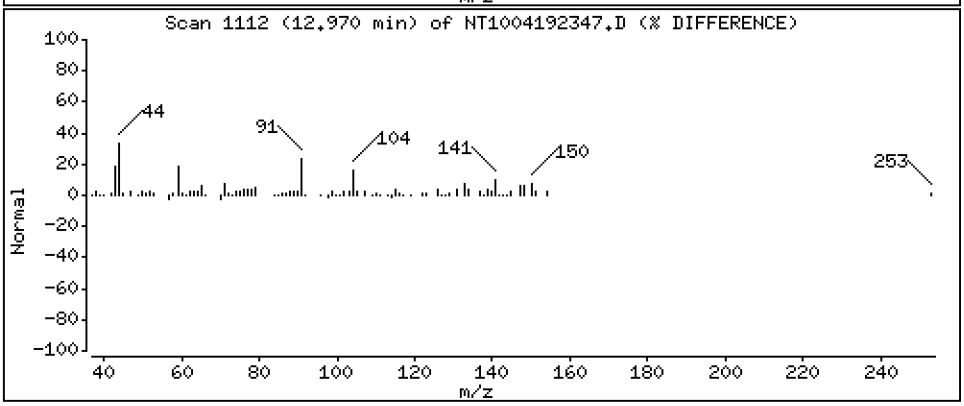












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

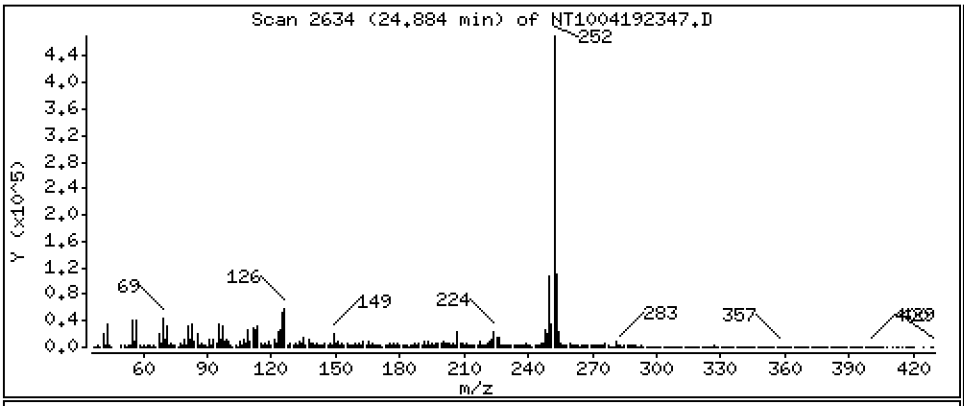
Operator: VTS

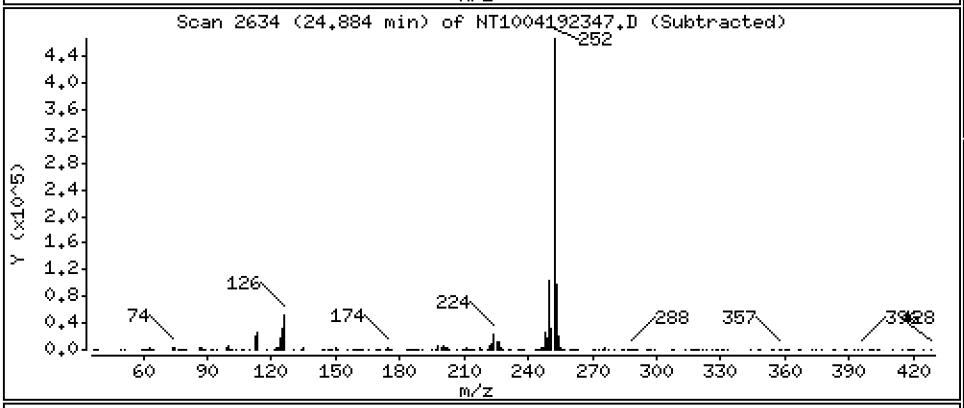
Column phase: ZB-5msi

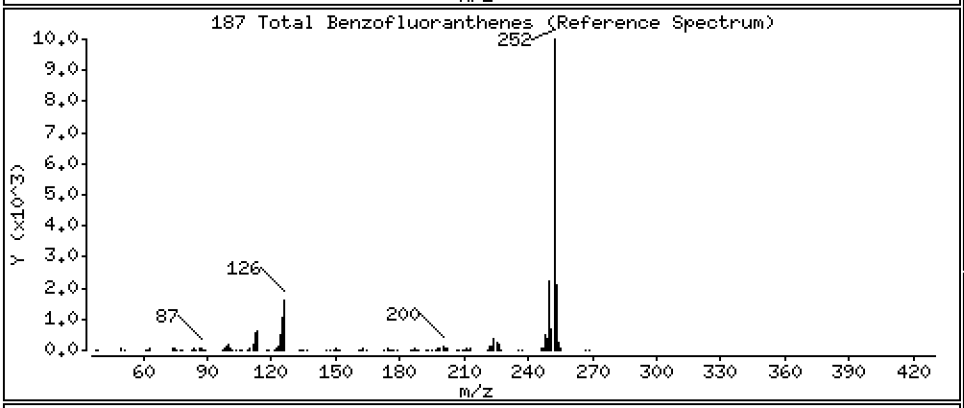
Column diameter: 0.25

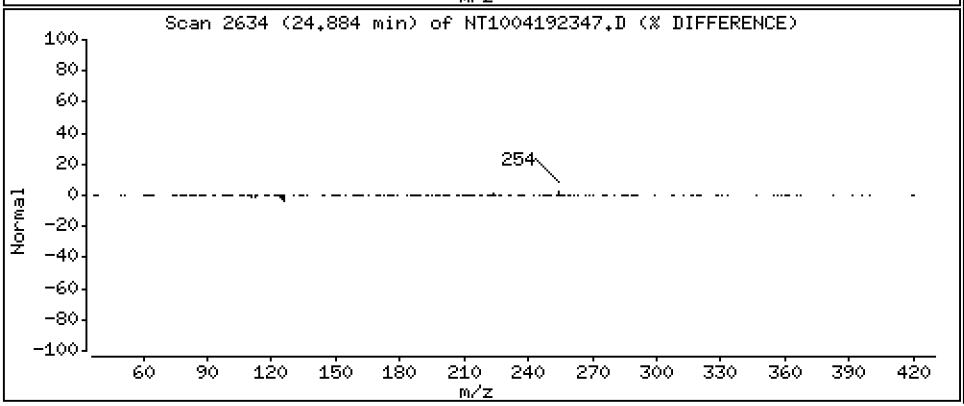
187 Total Benzofluoranthenes

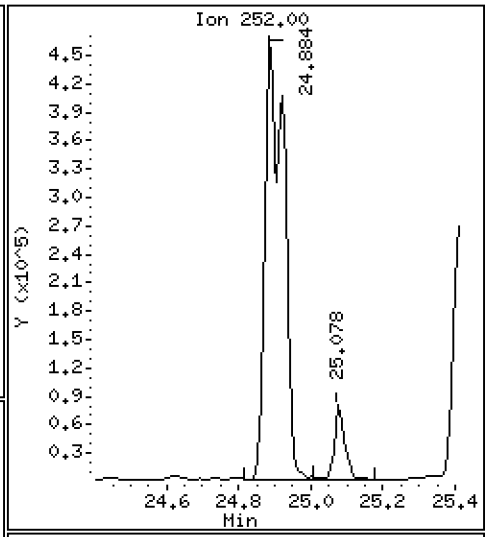
Concentration: 7.685 ug/mL

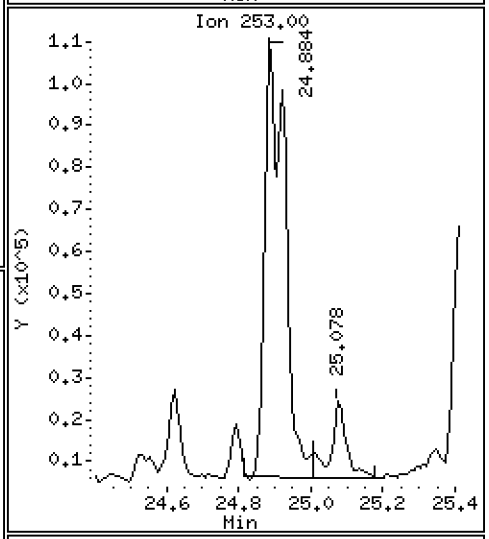


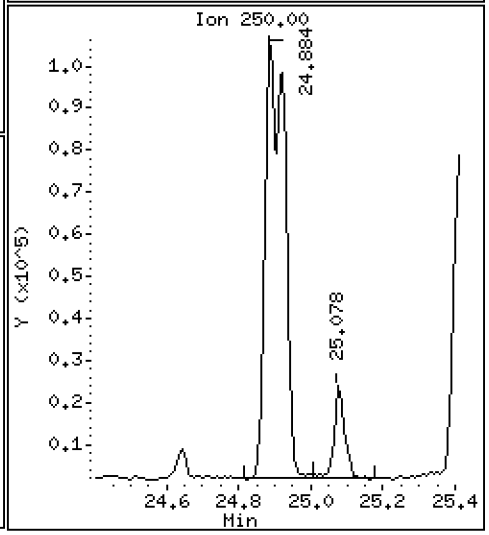












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230419B.b\NT1004192347.D
Lab Smp Id: 23C0752-06
Inj Date : 20-APR-2023 16:34
Operator : VTS Inst ID: nt10.i
Smp Info : 23C0752-06
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Meth Date : 21-Apr-2023 11:46 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.619	6.612	(0.750)	155843	3.37404	3.374
$	2 Phenol-d5	99	8.219	8.219	(0.931)	225432	3.72044	3.720
	3 Phenol	94	8.242	8.235	(0.933)	8003	0.12710	0.1271
$	5 2-Chlorophenol-d4	132	8.474	8.474	(0.960)	215223	4.15954	4.160
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	8.830	8.830	(1.000)	152735	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	9.187	9.187	(1.040)	66080	1.77832	1.778
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	9.117	9.110	(1.033)	14279	0.48315	0.4831
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	9.358	9.343	(1.060)	1121	0.02442	0.02442
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	9.630	9.622	(1.091)	3850	0.07961	0.07961
$	18 Nitrobenzene-d5	82	9.924	9.925	(0.877)	128770	2.27607	2.276
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	10.795	10.897	(0.954)	21830	0.76980	0.7698
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.314	11.307	(1.000)	560508	4.00000	
	28 Naphthalene	128	11.353	11.353	(1.003)	21140	0.14237	0.1424
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	12.745	12.746	(1.126)	10881	0.10154	0.1015
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

		QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	13.535	13.527	(0.907)	380948	2.95112	2.951
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	14.440	14.441	(0.968)	4178	0.03941	0.03941
	40 Acenaphthylene	152	14.603	14.603	(0.979)	24015	0.14745	0.1474
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	14.920	14.913	(1.000)	326327	4.00000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	14.982	14.982	(1.004)	10509	0.10444	0.1044
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	15.314	15.307	(1.026)	19369	0.13054	0.1305
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	15.902	15.902	(1.066)	17434	0.16762	0.1676
	49 Fluorene	166	16.026	16.018	(1.074)	21485	0.18405	0.1841
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	16.565	16.558	(1.110)	84392	5.53640	5.536
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	17.709	17.694	(0.986)	680	0.03353	0.03353
*	59 Phenanthrene-d10	188	17.957	17.949	(1.000)	584828	4.00000	
	60 Phenanthrene	178	18.003	17.996	(1.003)	254928	1.59860	1.599
	61 Anthracene	178	18.096	18.089	(1.008)	239805	1.56763	1.568
	62 Carbazole	167	18.436	18.429	(1.027)	70328	0.51305	0.5131
	63 Di-n-butylphthalate	149	19.272	19.265	(1.073)	9877	0.05358	0.05358
	64 Fluoranthene	202	20.433	20.402	(0.886)	1101660	4.60274	4.603
	65 Pyrene	202	20.843	20.827	(0.904)	826638	3.36676	3.367
$	66 Terphenyl-d14	244	21.152	21.137	(0.917)	495272	2.68604	2.686
	67 Butylbenzylphthalate	149	Compound Not Detected.					
	68 Benzo(a)anthracene	228	23.034	23.019	(0.999)	1062136	5.05174	5.052
*	69 Chrysene-d12	240	23.057	23.042	(1.000)	595666	4.00000	
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71 Chrysene	228	23.103	23.088	(1.002)	1152175	5.60909	5.609
	72 bis(2-Ethylhexyl)phthalate	149	23.142	23.135	(0.959)	147958	1.08323	1.083
*	134 Di-n-octylphthalate-d4	153	24.141	24.126	(1.000)	933367	4.00000	
	73 Di-n-octylphthalate	149	Compound Not Detected.					
	74 Benzo(b)fluoranthene	252	24.884	24.861	(0.971)	1018953	4.50224	4.502
	75 Benzo(k)fluoranthene	252	24.923	24.908	(0.973)	805693	3.50590	3.506
	76 Benzo(a)pyrene	252	25.503	25.481	(0.995)	654019	3.23221	3.232
*	77 Perylene-d12	264	25.620	25.589	(1.000)	698197	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.139	28.092	(1.098)	305194	1.18554	1.186
	79 Dibenzo(a,h)anthracene	278	28.146	28.116	(1.099)	104315	0.48808	0.4881
	80 Benzo(g,h,i)perylene	276	28.869	28.822	(1.127)	230209	1.03333	1.033
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					
	91 Aniline	93	Compound Not Detected.					
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	4.472	4.426	(0.507)	1174	0.02594	0.02594
	105 1-methylnaphthalene	142	12.970	12.962	(1.146)	8255	0.08408	0.08408
	111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	24.884	24.908	(0.971)	1679346	7.68514	7.685
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192347.D
Lab Smp Id: 23C0752-06
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Misc Info:

Calibration Date: 20-APR-2023
Calibration Time: 07:41
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	129725	64863	259450	152735	17.74
27 Naphthalene-d8	475671	237836	951342	560508	17.84
42 Acenaphthene-d10	277889	138945	555778	326327	17.43
59 Phenanthrene-d10	485346	242673	970692	584828	20.50
69 Chrysene-d12	453075	226538	906150	595666	31.47
134 Di-n-octylphthala	697265	348633	1394530	933367	33.86
77 Perylene-d12	538138	269069	1076276	698197	29.74

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.83	8.33	9.33	8.83	-0.00
27 Naphthalene-d8	11.31	10.81	11.81	11.31	0.07
42 Acenaphthene-d10	14.91	14.41	15.41	14.92	0.05
59 Phenanthrene-d10	17.95	17.45	18.45	17.96	0.04
69 Chrysene-d12	23.04	22.54	23.54	23.06	0.07
134 Di-n-octylphthala	24.13	23.63	24.63	24.14	0.06
77 Perylene-d12	25.59	25.09	26.09	25.62	0.12

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

REVIEW SUMMARY FOR FILE - NT1004192347.D

Lab ID: 23C0752-06
nt10.i, 20230419B.b\ABN.m,   20-APR-2023 16:34

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.954	0.964	-0.0097	Benzoic acid
0.507	0.501	0.0052	Pyridine

RRT check based on Ccal File: NT1004192333.D

On Column LOD for nt10.i, 20230419B.b\ABN.m, ICAL.sub = 0.0000

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

PREPARATION BATCH SUMMARY

EPA 8270E

Laboratory: Analytical Resources, LLC SDG: 23C0752

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

Batch: BLD0008 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1026	23C0752-01	NT1004192341.D	04/03/23 11:31	
LDW23-SS1125	23C0752-02	NT1004192342.D	04/03/23 11:31	
LDW23-SS1132	23C0752-03	NT1004192343.D	04/03/23 11:31	
LDW23-SS1810	23C0752-04	NT1004192344.D	04/03/23 11:31	
LDW23-SS1809	23C0752-06	NT1004192347.D	04/03/23 11:31	
Blank	BLD0008-BLK1	NT1004192337.D	04/03/23 11:31	
LCS	BLD0008-BS1	NT1004192338.D	04/03/23 11:31	
LCS Dup	BLD0008-BSD1	NT1004192339.D	04/03/23 11:31	
LDW23-SS1810	BLD0008-MS1	NT1004192345.D	04/03/23 11:31	
LDW23-SS1810	BLD0008-MSD1	NT1004192346.D	04/03/23 11:31	
Reference	BLD0008-SRM1	NT1004192340.D	04/03/23 11:31	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLD0008

Prepared using: EPA 3546 (Microwave)

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

Matrix: Solid Date Prepared: 04/03/23 Balance ID: B146462614 Set Up By: CD 4/3/23

WO Comments

23C0752: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

The following standards may be missing from this batch!

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

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

Lab Number & Container	% Solids	Initial (g) Target Dry: 10 (Wet) Actual	(REQ) GPC C/U (1:1) 1 2 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
23C0752-01 A	50.2	(19.90) 19.98	(1:1)	1mL	1 ____	0.5 ____	
23C0752-02 A	49.7	(20.14) 20.18	(1:1)	1mL	1 ____	0.5 ____	
23C0752-03 A	50.7	(19.74) 19.76	(1:1)	1mL	1 ____	0.5 ____	
23C0752-04 A	52.7	(18.97) 18.98	(1:1)	1mL	1 ____	0.5 ____	
23C0752-06 A	46.7	(21.40) 21.43	(1:1)	1mL	1 ____	0.5 ____	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 10 (Wet) Actual	(REQ) GPC C/U (1:1) 1 2 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BLD0008-BLK1	100.0	(10.00) 10.00	(1:1)	1mL	1 ____	0.5 ____	Use 5g Neutral Sodium Sulfate for Blanks
BLD0008-BS1	100.0	(10.00) 10.00	(1:1)	1mL	1 ____	0.5 ____	Use 5g Neutral Sodium Sulfate for Blanks
BLD0008-BSD1	100.0	(10.00) 10.00	(1:1)	1mL	1 ____	0.5 ____	Use 5g Neutral Sodium Sulfate for Blanks
BLD0008-MS1	52.7	(18.97) 18.97	(1:1)	1mL	1 ____	0.5 ____	Use 23C0752-04
BLD0008-MSD1	52.7	(18.97) 18.97	(1:1)	1mL	1 ____	0.5 ____	Use 23C0752-04
BLD0008-SRM1	100.0	~~(10.00)~~ (1.00) 1.00	(1:1)	1mL	1 ____	0.5 ____	Use K003477

+1g DI WATER

Client ID Verified By: [signature] 04/03/23 (Date)

Preparation Reviewed By: NRB 4/18/23 (Date)

Extraction Date and Time: 04/03/23 11:31

Printed: 4/3/2023 9:07:29AM

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLD0008

Prepared using: EPA 3546 (Microwave)

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

WO Comments

23C0752: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Prep Steps

Microwave
1 2 3
4/4/23
Analyst/Date

Pre-GPC KD
100°C
Exchange to Hexane
(add 10 mL to KD)
0 2 4 5 6
4/4/23
Analyst/Date

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

Post GPC KD
80-85°C
0 2 4 5 6
4/6/23
Analyst/Date

TurboVap
1 2 3 4 5
4/18/23
Analyst/Date

Water Wash
4/18/23
Analyst/Date

Reagents Used

Station/Reagent	Standard ID
Microwave Analyst: GT Date: 4/4/23	
Anhydrous Sodium Sulfate	L002971
1:1 Methylene Chloride/Acetone	L002244
Methylene Chloride	L002621
Pre-Deactivated Glass Wool	L001923
Pre GPC KD Analyst: SA Date: 4/4/23	
Pre-Deactivated Glass Wool	N/A
Anhydrous Sodium Sulfate	N/A
Methylene Chloride	K005281
Hexane	L001957
GPC Filter Prep Analyst: MRB Date: 4/5/23	
Methylene Chloride	K005281
GPC Filter	L001799
GPC Analyst: MRB Date: 4/5/23	
Methylene Chloride	L002621
GPC Calibration File	CLB0132
Post GPC KD Analyst: CR Date: 4/6/23	
Methylene Chloride	L002621
Vialing Analyst: MRB Date: 4/18/23	
Methylene Chloride	L002621

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate 100/150µg/mL	A L001153 Exp Date: 8/1/2023	50µL	GT	
Full List Spike (Freezer) 100µg/mL	7 L001812 (V) Exp Date: 8/4/2023	50µL	GT	
Base Spike 200µg/mL	56 L001812 (V) Exp Date: 8/2/2023	50µL	GT	
Acid Spike 100/200µg/mL	38 L001812 (V) Exp Date: 8/2/2023	50µL	GT	

MANUALLY ENTER EXPIRATION DATES!

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

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

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLD0008

Prepared using: EPA 3546 (Microwave)

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

WO Comments

23C0752: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

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

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

Extraction Parameter: SVOA Extraction Batch ~~BLC0852~~ BLD0008

Total Solids Batch: ~~NA BLC0852~~ Work Order(s): 23C0752

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
[X] No Anomalies (standard soil/wet sediment/sand/gravel)= 01-07	CR 3/31/23
[X] Standing Water Decanted (Not shared)= 01-07	CR 3/31/23
[ ] Standing Water Homogenized (Shared samples)=	
[ ] Clay/Clumps (Difficult to homogenize)=	
[ ] Rocks (%+size)?	
[ ] Organics (Leaves/sticks/grass)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Received in 32oz jar(s)=Homogenized in Pyrex dish=	
[X] Previously Frozen = 01-07	CR 3/31/23
[ ] Other (Details)=	
Aqueous:	
[ ] No Anomalies	
[ ] Turbid/Color=	
[ ] Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
[ ] Emulsions (%)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Other (Details)=	
[ ] Received in 1.0L Bottle(s)=No Bottle Rinse=	
[ ] Other Notes/Comments= (Note problems, concerns, corrective actions).	
-752 06 went dry in turbo tube in fridge	CMR3 4/18/23
[X] Share Samples Y / (N)	CR 3/31/23
[X] Multiple Jars Y / (N)	CR 3/31/23
[ ] Sample Pre-Screens indicate analyte activity=	
[ ] Sample weights/volumes reduced based on Pre-Screen=	

BLD0008/024/025 23C0752/702

Date:2023-04-05,2:07:29 PM
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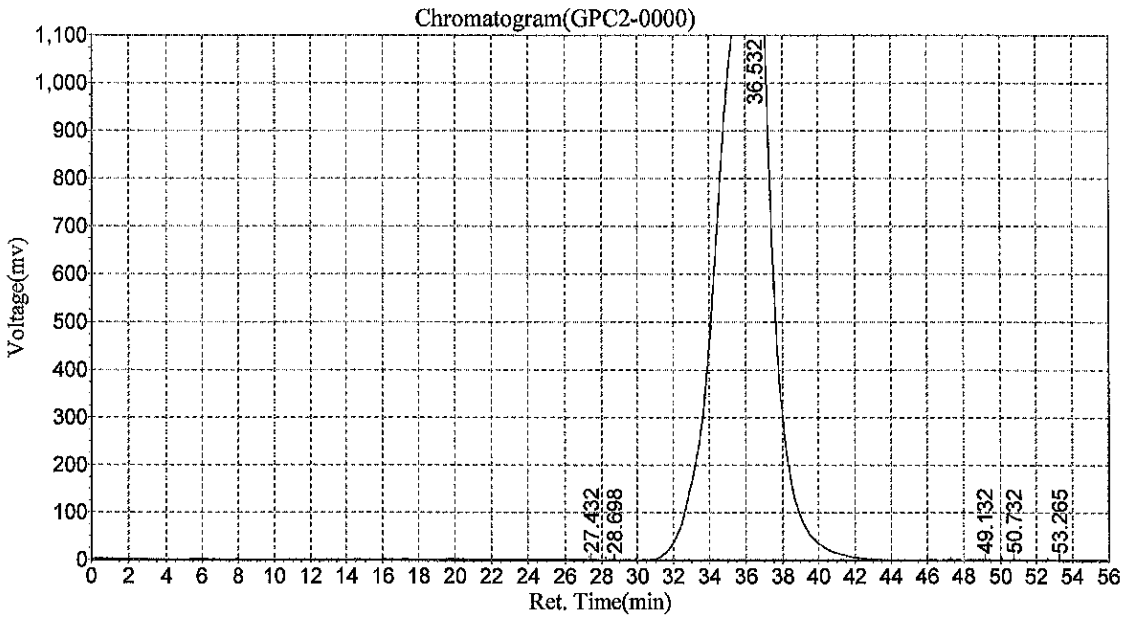
Method File:E:\GPC2_InHouse.mtd

Analyst£°NRB
Date/Time2023-04-05,2:07:29 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		27.432	2212.513	104786.484	0.0393
2		28.698	2528.385	151863.281	0.0570
3		36.532	1243140.250	265834608.000	99.7392
4		49.132	1433.380	146479.156	0.0550
5		50.732	2078.285	186119.781	0.0698
6		53.265	1485.718	105929.484	0.0397
Total			1252878.530	266529786.188	100.000

Ingredient Table

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

BLD0008/024/025 23C0752/702

Date:2023-04-05,3:05:16 PM
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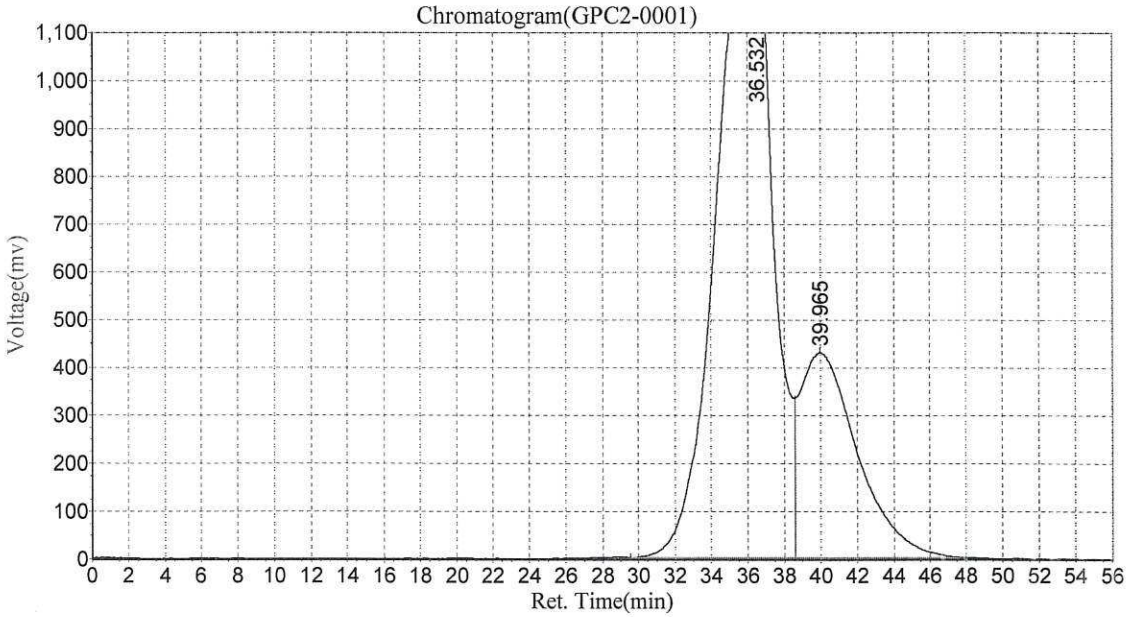
Analyst£°NRB
Date/Time2023-04-05,3:05:17 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		36.532	1243930.875	280810752.000	75.2006
2		39.965	427112.594	92604872.000	24.7994
Total			1671043.469	373415624.000	100.000

Ingredient Table

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

BLD0008/024/025 23C0752/702

Date:2023-04-05,4:02:59 PM
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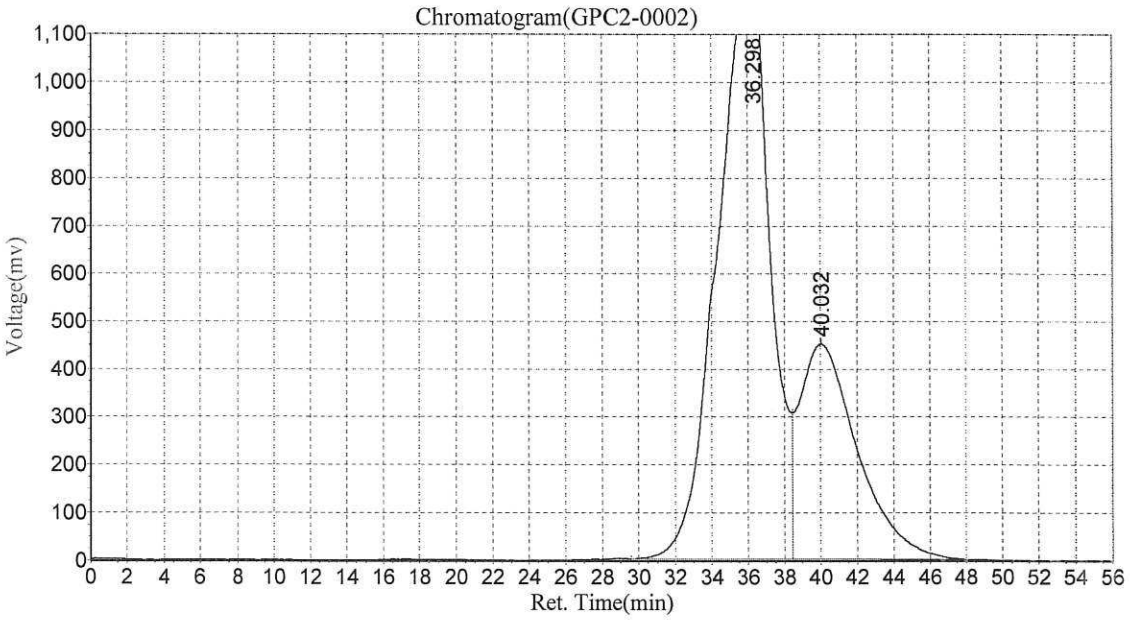
Date/Time2023-04-05,4:02:59 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		36.298	1216545.875	245591648.000	71.4086
2		40.032	449230.969	98332960.000	28.5914
Total			1665776.844	343924608.000	100.000

Ingredient Table

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

BLD0008/024/025 23C0752/702

Date:2023-04-05,5:00:43 PM
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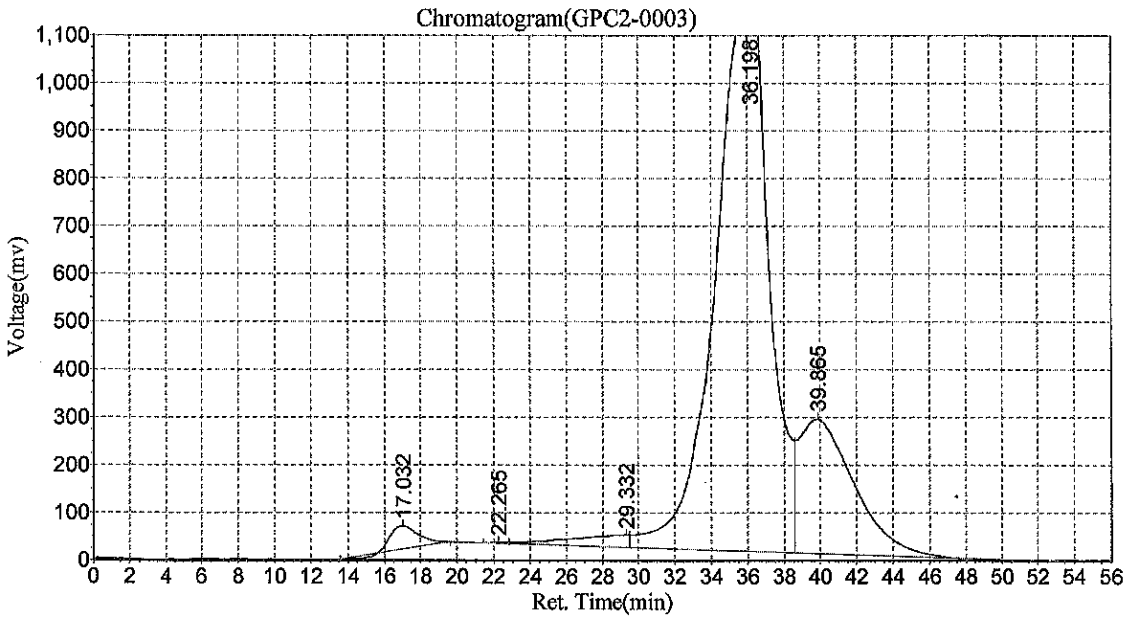

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.032	49684.285	5131232.500	1.6476
2		22.265	2552.654	138112.719	0.0443
3		29.332	27387.266	5934594.000	1.9056
4		36.198	1174724.000	240144416.000	77.1091
5		39.865	283469.031	60086404.000	19.2934
Total			1537817.236	311434759.219	100.000

Ingredient Table

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

MS01

BLD0008/024/025 23C0752/702

Date:2023-04-05,5:58:25 PM
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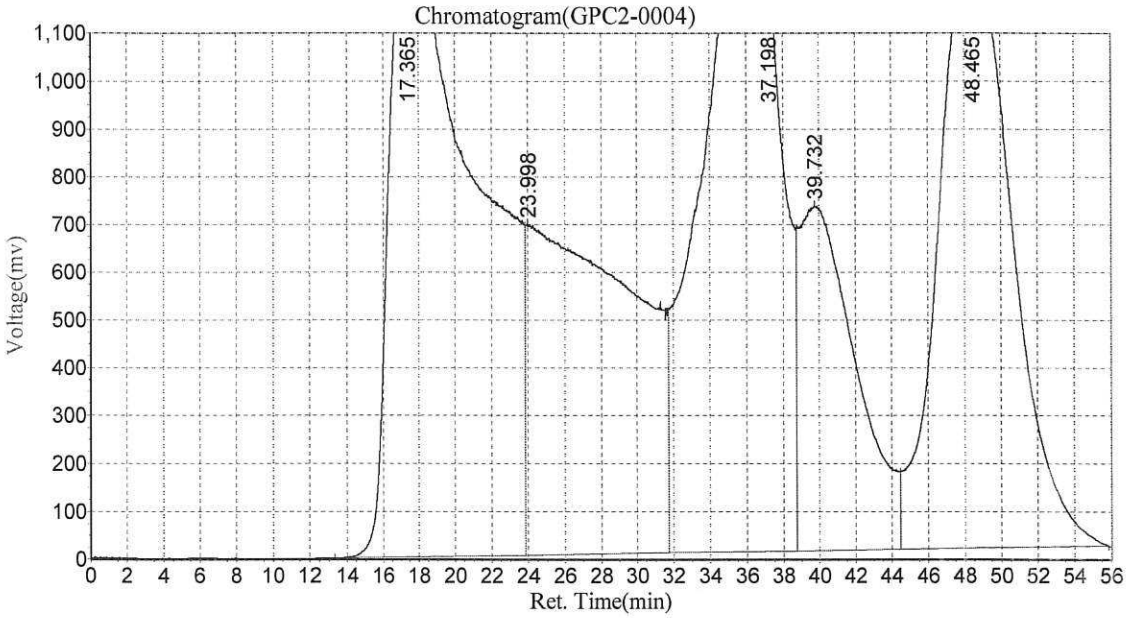
Method File:E:\GPC2_InHouse.mtd

Analyst£°NRB
Date/Time2023-04-05,5:58:26 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	1248078.000	443508128.000	27.3293
2	Collect BAN	23.998	691656.813	281457696.000	17.3436
3		37.198	1232612.250	397493664.000	24.4938
4		39.732	718960.250	156363360.000	9.6352
5		48.465	1196055.125	344009504.000	21.1981
Total			5087362.438	1622832352.000	100.000

Ingredient Table

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

BLD0008/024/025 23C0752/702

Date:2023-04-05,6:56:13 PM
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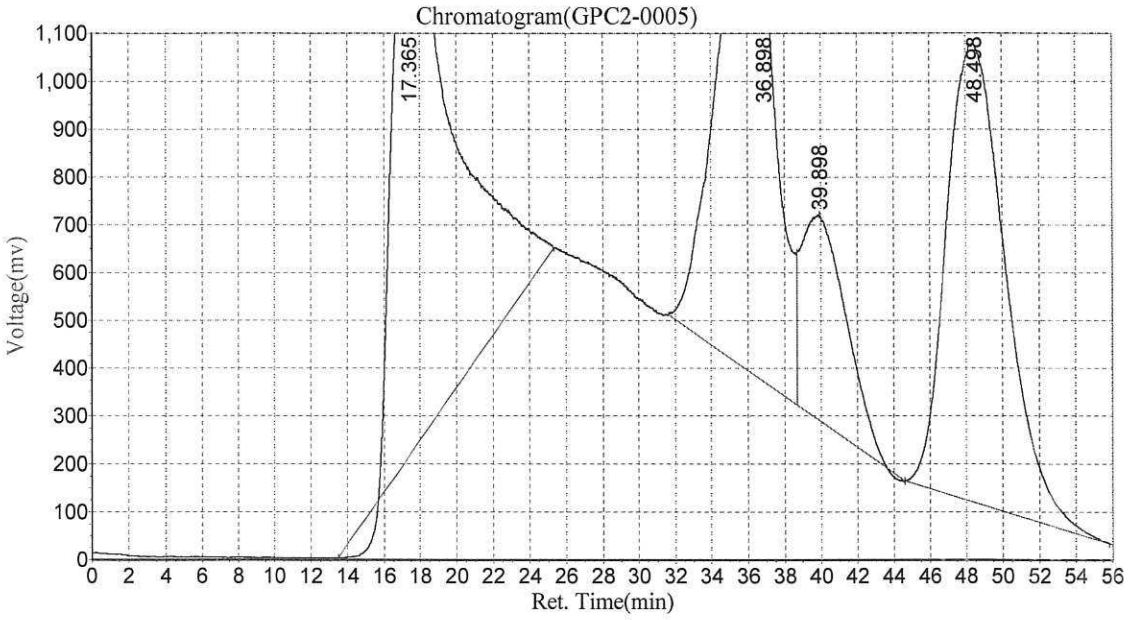

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	1037963.813	270786912.000	35.0606
2		36.898	878030.813	212784608.000	27.5507
3		39.898	429192.438	72742160.000	9.4184
4		48.498	957952.250	216025808.000	27.9703
Total			3303139.313	772339488.000	100.000

Ingredient Table

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

BLD0008/024/025 23C0752/702

Date:2023-04-05,7:53:54 PM
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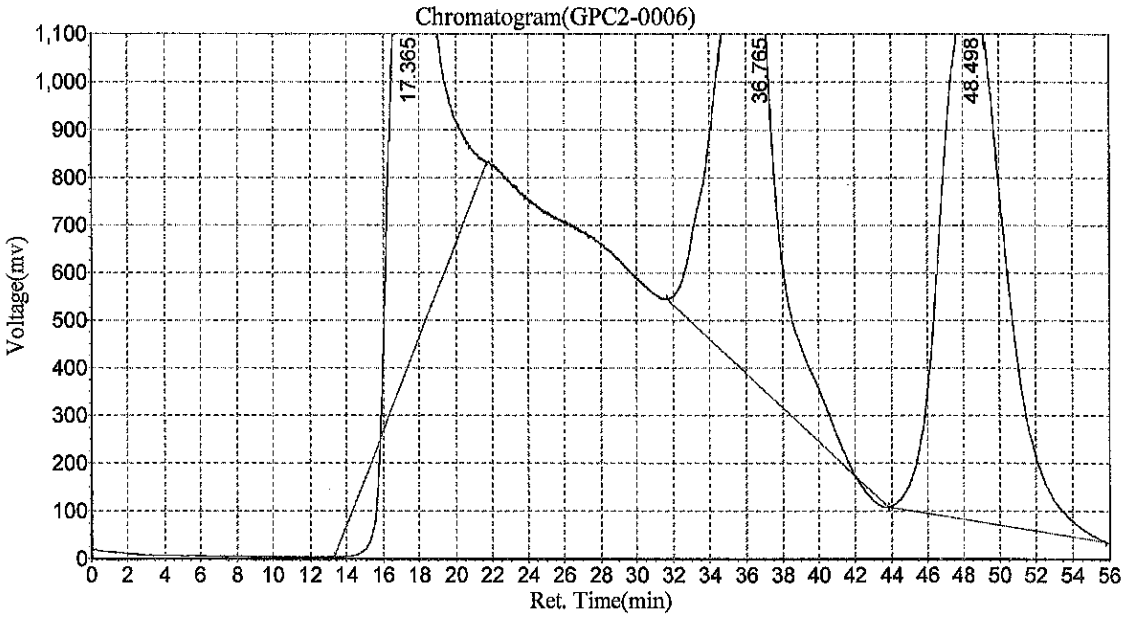
Method File:E:\GPC2_InHouse.mtd

Analyst£°NRB
Date/Time2023-04-05,7:53:55 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	851105.938	153270880.000	23.8206
2		36.765	886841.063	217937760.000	33.8709
3		48.498	1095364.000	272228832.000	42.3085
Total			2833311.000	643437472.000	100.000

Ingredient Table

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

BLD0008/024/025 23C0752/702

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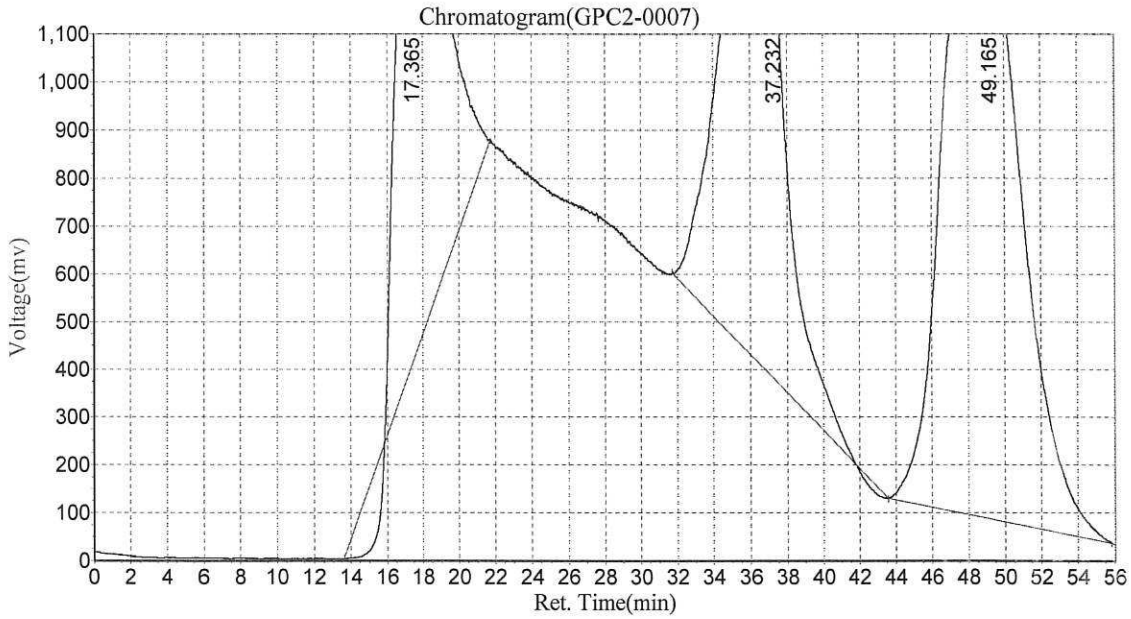
Method File:E:\GPC2_InHouse.mtd

Analyst£°NRB
Date/Time2023-04-05,8:51:42 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	845361.188	169360320.000	22.0477
2		37.232	868575.875	232466272.000	30.2629
3		49.165	1160799.125	366328960.000	47.6894
Total			2874736.188	768155552.000	100.000

Ingredient Table

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

BLD0008/024/025 23C0752/702

Date:2023-04-05,9:49:22 PM
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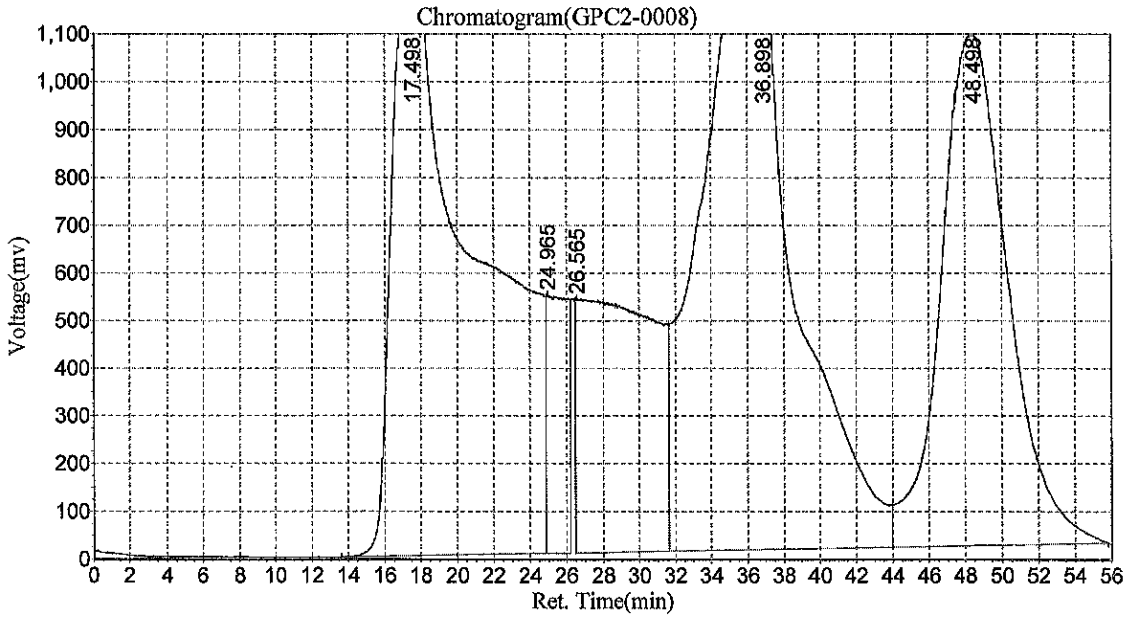
Method File:E:\GPC2_InHouse.mtd

Analyst£°NRB
Date/Time2023-04-05,9:49:23 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.498	1244825.000	402966880.000	30.2083
2		24.965	539580.688	43826920.000	3.2855
3		26.565	530852.688	156209312.000	11.7102
4		36.898	1226800.000	458694240.000	34.3859
5		48.498	1069649.875	272264672.000	20.4102
Total			4611708.250	1333962024.000	100.000

Ingredient Table

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

BLD0008/024/025 23C0752/702

Date:2023-04-05,10:47:11 PM
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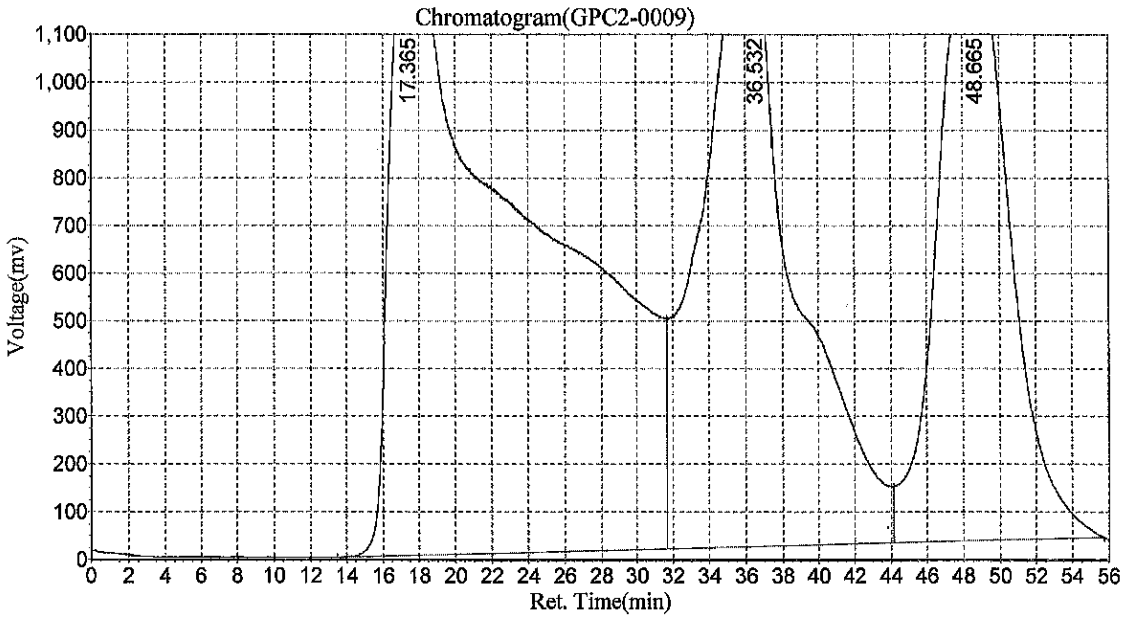
Date/Time2023-04-05,10:47:11 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	1243764.250	716302592.000	47.5197
2		36.532	1218768.000	454787552.000	30.1707
3		48.665	1185792.000	336289856.000	22.3096
Total			3648324.250	1507380000.000	100.000

Ingredient Table

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

BLD0008/024/025 23C0752/702

Date:2023-04-05,11:44:52 PM
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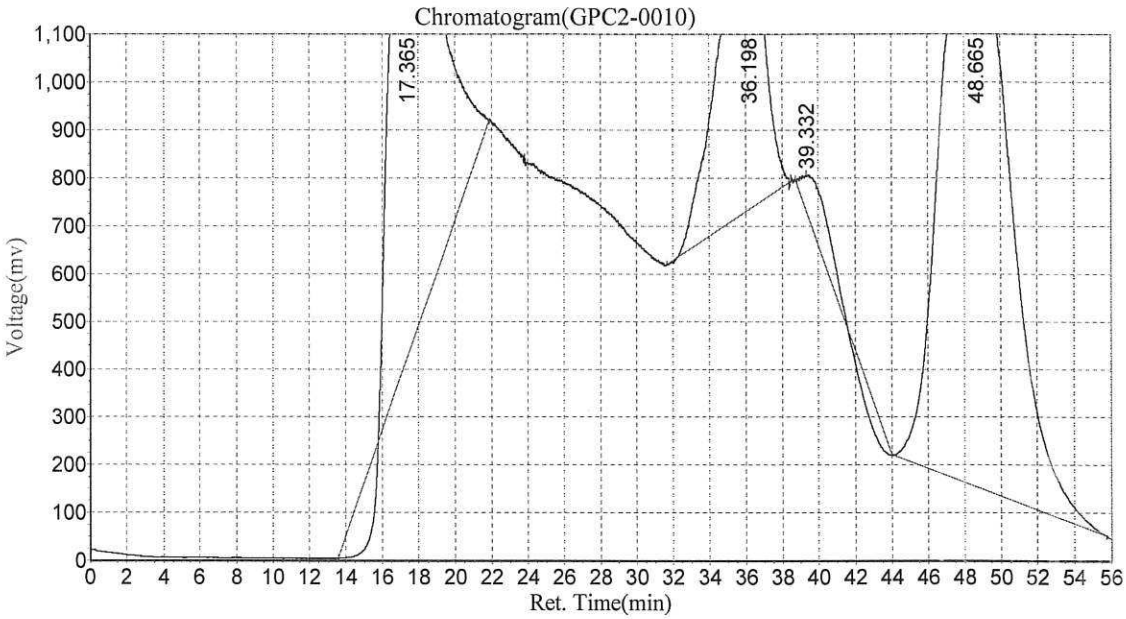
Method File:E:\GPC2_InHouse.mtd

Analyst£°NRB
Date/Time2023-04-05,11:44:52 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	833633.188	169238608.000	28.8284
2		36.198	513652.344	103550736.000	17.6390
3		39.332	75084.914	6352079.500	1.0820
4		48.665	1087118.125	307913312.000	52.4505
Total			2509488.570	587054735.500	100.000

Ingredient Table

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

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLE0140	Cleanup Type:	GPC
Cleanup Method:	EPA 3640A GPC Cleanup 1:1	Analysis:	EPA 8270E

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1809	23C0752-06	NT1004192347.D	04/18/2023	
LCS Dup	BLD0008-BSD1	NT1004192339.D	04/18/2023	
Reference	BLD0008-SRM1	NT1004192340.D	04/18/2023	
Matrix Spike	BLD0008-MS1	NT1004192345.D	04/18/2023	
LCS	BLD0008-BS1	NT1004192338.D	04/18/2023	
Blank	BLD0008-BLK1	NT1004192337.D	04/18/2023	
LDW23-SS1810	23C0752-04	NT1004192344.D	04/18/2023	
Matrix Spike Dup	BLD0008-MSD1	NT1004192346.D	04/18/2023	
LDW23-SS1132	23C0752-03	NT1004192343.D	04/18/2023	
LDW23-SS1125	23C0752-02	NT1004192342.D	04/18/2023	
LDW23-SS1026	23C0752-01	NT1004192341.D	04/18/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLE0140

Matrix: Solid **Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1** **Check Standard: CLC0092-GPC2** **Printed: 5/15/2023 2:41:19PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23C0752-01	A	LDW23-SS1026	A 01	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	4/18/2023	NRB	
23C0752-01	A	LDW23-SS1026	A 02	1	1	8270E-SIM Dual Scan SVOC	4/18/2023	NRB	
23C0752-02	A	LDW23-SS1125	A 01	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	4/18/2023	NRB	
23C0752-02	A	LDW23-SS1125	A 02	1	1	8270E-SIM Dual Scan SVOC	4/18/2023	NRB	
23C0752-03	A	LDW23-SS1132	A 02	1	1	8270E-SIM Dual Scan SVOC	4/18/2023	NRB	
23C0752-03	A	LDW23-SS1132	A 01	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	4/18/2023	NRB	
23C0752-04	A	LDW23-SS1810	A 02	1	1	8270E-SIM Dual Scan SVOC	4/18/2023	NRB	
23C0752-04	A	LDW23-SS1810	A 01	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	4/18/2023	NRB	
23C0752-06	A	LDW23-SS1809	A 01	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	4/18/2023	NRB	
23C0752-06	A	LDW23-SS1809	A 02	1	1	8270E-SIM Dual Scan SVOC	4/18/2023	NRB	
BLD0008-BLK1	-	Blank	-	1	1	-	4/18/2023	NRB	
BLD0008-BLK2	-	Blank	-	1	1	-	4/18/2023	NRB	
BLD0008-BS1	-	LCS	-	1	1	-	4/18/2023	NRB	
BLD0008-BS2	-	LCS	-	1	1	-	4/18/2023	NRB	
BLD0008-BSD1	-	LCS Dup	-	1	1	-	4/18/2023	NRB	
BLD0008-BSD2	-	LCS Dup	-	1	1	-	4/18/2023	NRB	
BLD0008-MS1	-	Matrix Spike	-	1	1	-	4/18/2023	NRB	
BLD0008-MS2	-	Matrix Spike	-	1	1	-	4/18/2023	NRB	
BLD0008-MSD1	-	Matrix Spike Dup	-	1	1	-	4/18/2023	NRB	
BLD0008-MSD2	-	Matrix Spike Dup	-	1	1	-	4/18/2023	NRB	
BLD0008-SRM1	-	Reference	-	1	1	-	4/18/2023	NRB	
BLD0008-SRM2	-	Reference	-	1	1	-	4/18/2023	NRB	

CLEANUP BENCH SHEET

CLE0140

Matrix: Solid **Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1** **Check Standard: CLC0092-GPC2** **Printed: 5/15/2023 2:41:19PM**

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

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 8270E

Blank

Laboratory:	Analytical Resources, LLC			SDG:	23C0752
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Solid	Laboratory ID:	BLD0008-BLK1	File ID:	NT1004192337.D
Sampled:	N/A	Prepared:	04/03/23 11:31	Analyzed:	04/20/23 10:13
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	10 g / 1 mL
Batch:	BLD0008	Sequence:	SLD0293	Calibration:	GC00046
Instrument:	NT10	Column:	ZB-5MSi	Cleanups:	GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
108-95-2	Phenol	1	6.9	J	4.4	20.0
106-44-5	4-Methylphenol	1	20.0	U	7.4	20.0
91-20-3	Naphthalene	1	5.2	J	4.2	20.0
91-57-6	2-Methylnaphthalene	1	20.0	U	4.5	20.0
208-96-8	Acenaphthylene	1	20.0	U	6.2	20.0
131-11-3	Dimethylphthalate	1	20.0	U	4.4	20.0
83-32-9	Acenaphthene	1	20.0	U	5.2	20.0
132-64-9	Dibenzofuran	1	20.0	U	14.1	20.0
86-73-7	Fluorene	1	20.0	U	14.6	20.0
85-01-8	Phenanthrene	1	20.0	U	8.7	20.0
120-12-7	Anthracene	1	20.0	U	7.2	20.0
206-44-0	Fluoranthene	1	20.0	U	6.1	20.0
129-00-0	Pyrene	1	20.0	U	5.7	20.0
85-68-7	Butylbenzylphthalate	1	20.0	U	9.4	20.0
56-55-3	Benzo(a)anthracene	1	20.0	U	6.0	20.0
218-01-9	Chrysene	1	20.0	U	6.1	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	9.6	J	5.5	50.0
	Benzofluoranthenes, Total	1	40.0	U	10.0	40.0
50-32-8	Benzo(a)pyrene	1	20.0	U	4.2	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	20.0	U	14.7	20.0
53-70-3	Dibenzo(a,h)anthracene	1	20.0	U	17.2	20.0
191-24-2	Benzo(g,h,i)perylene	1	20.0	U	13.6	20.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
2-Fluorophenol	750.00	388	51.8	27 - 120	
Phenol-d5	750.00	397	52.9	29 - 120	
2-Chlorophenol-d4	750.00	480	64.1	31 - 120	
1,2-Dichlorobenzene-d4	500.00	299	59.8	32 - 120	
Nitrobenzene-d5	500.00	295	59.1	30 - 120	
2-Fluorobiphenyl	500.00	297	59.4	35 - 120	
2,4,6-Tribromophenol	750.00	422	56.2	24 - 134	
p-Terphenyl-d14	500.00	295	59.0	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192337.D

Date : 20-APR-2023 10:13

Client ID:

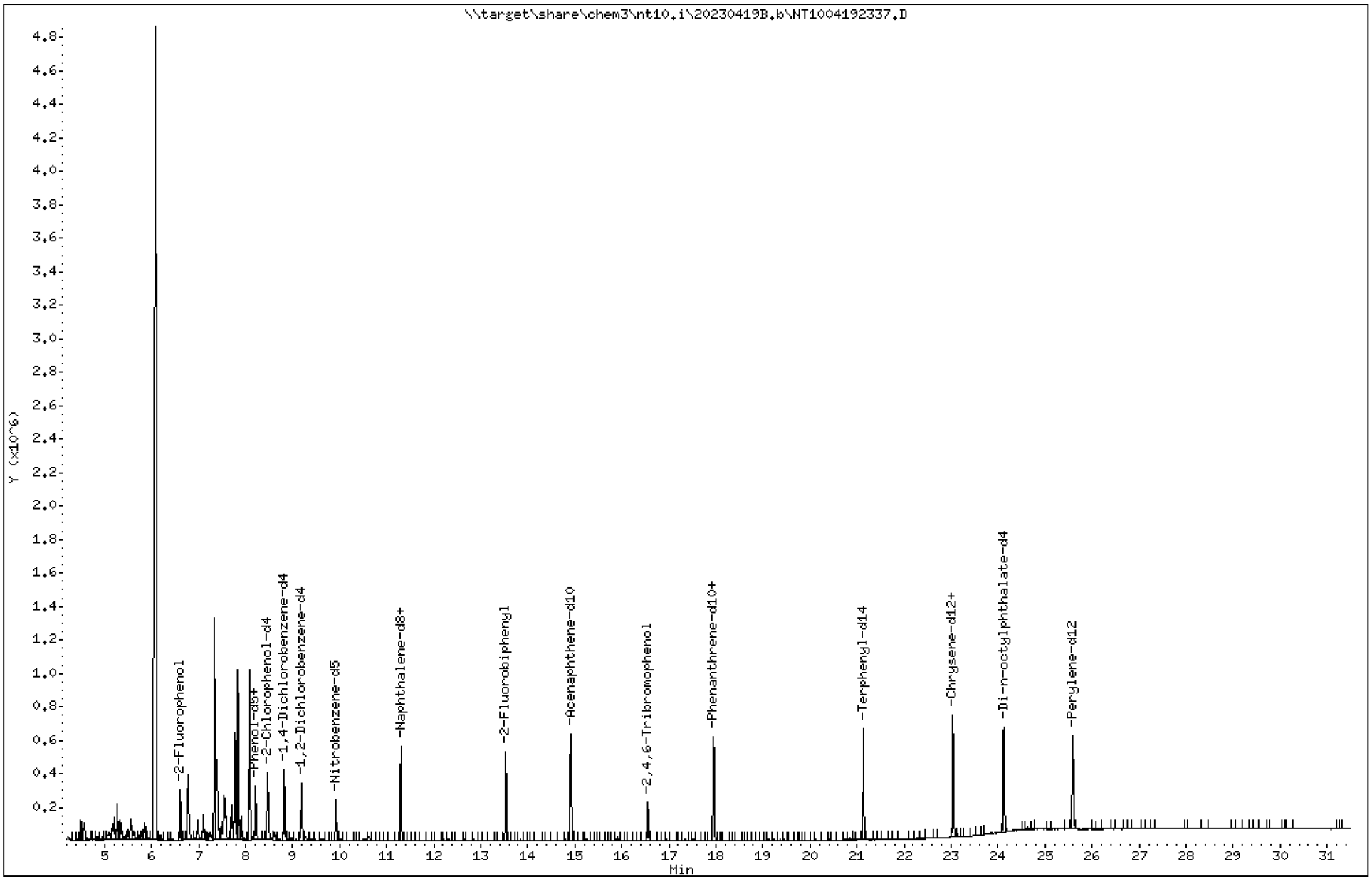
Sample Info: BLD0008-BLK1

Column phase: ZB-5msi

Instrument: nt10.i

Operator: VTS

Column diameter: 0.25



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Date : 20-APR-2023 10:13

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BLK1

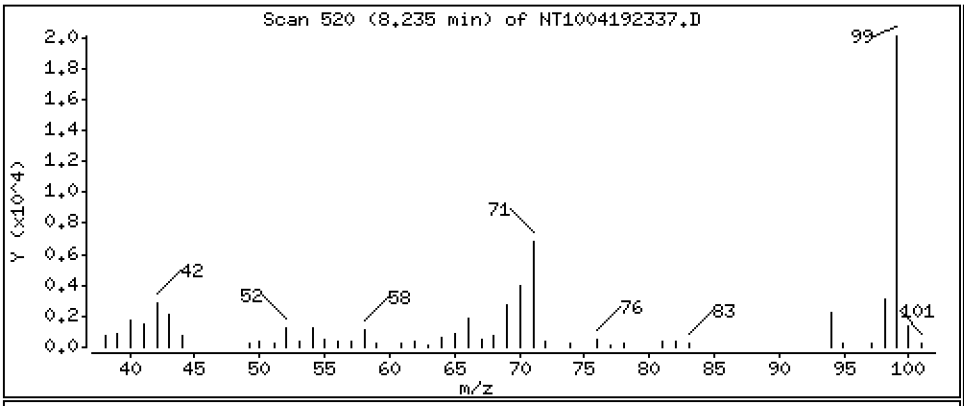
Operator: VTS

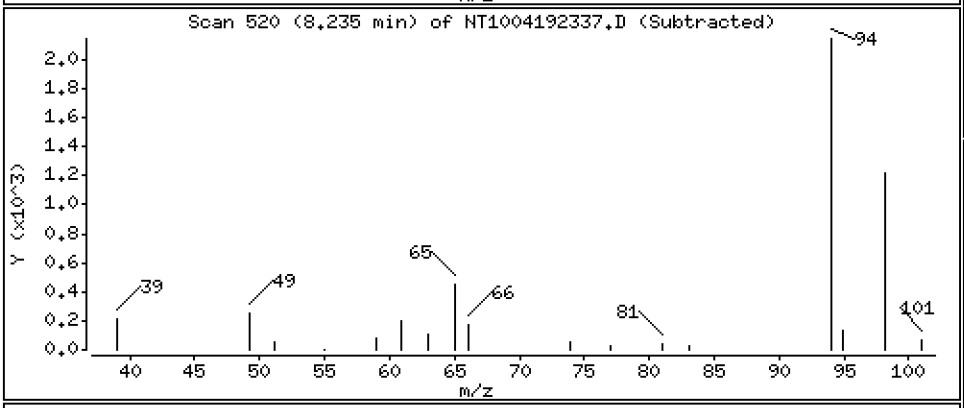
Column phase: ZB-5msi

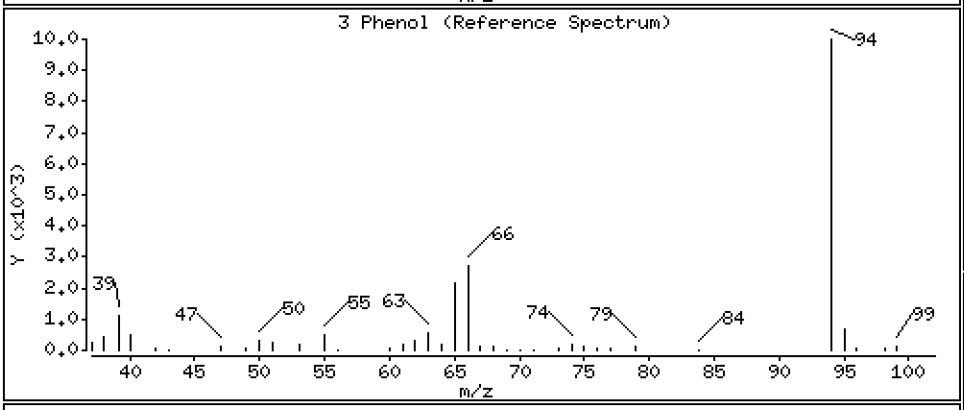
Column diameter: 0.25

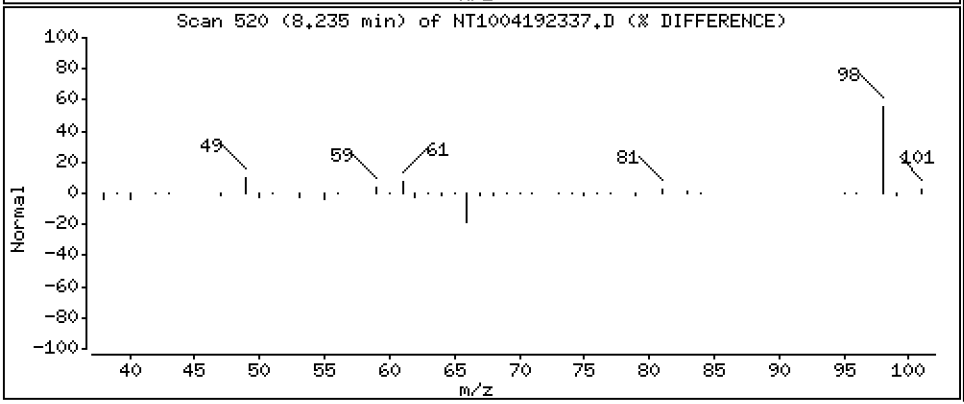
3 Phenol

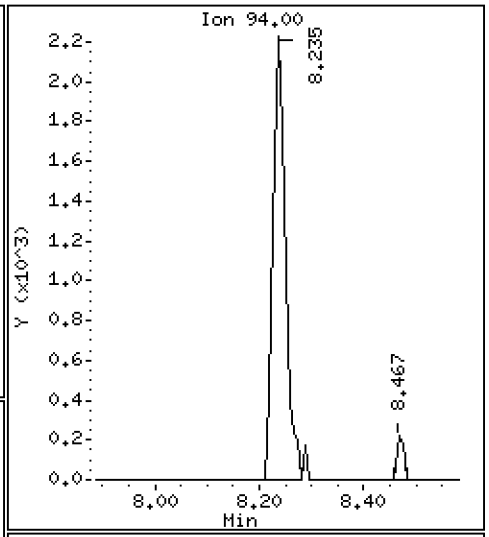
Concentration: 0.06889 ug/mL

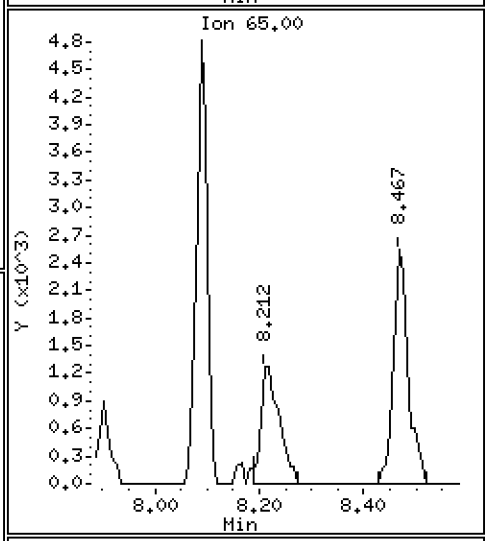


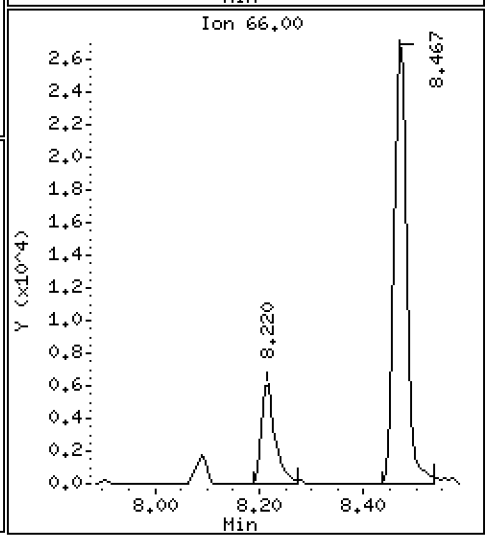












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Date : 20-APR-2023 10:13

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BLK1

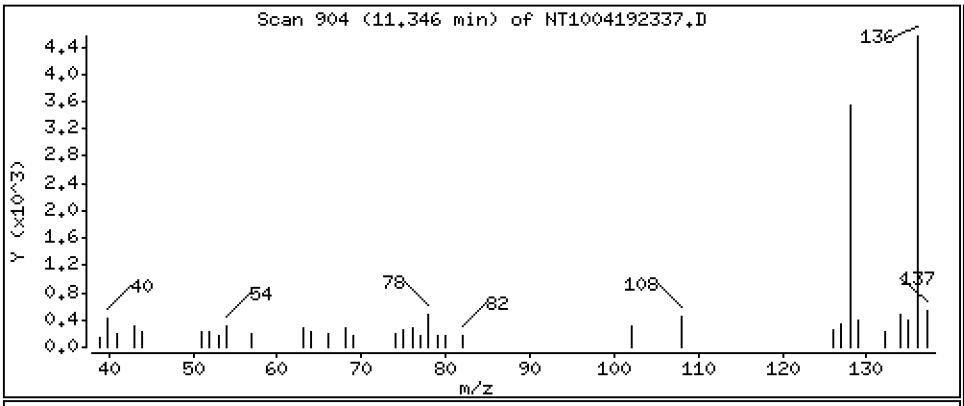
Operator: VTS

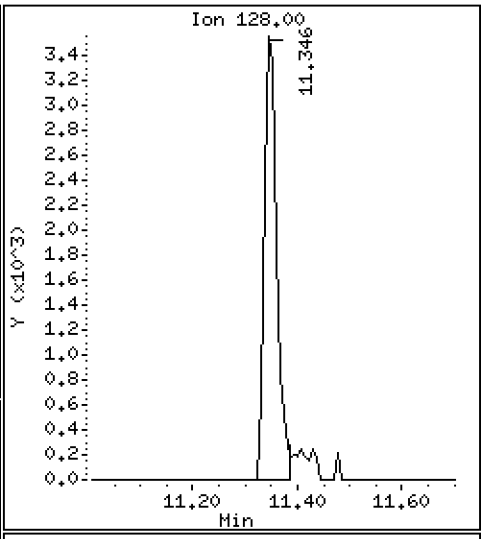
Column phase: ZB-5msi

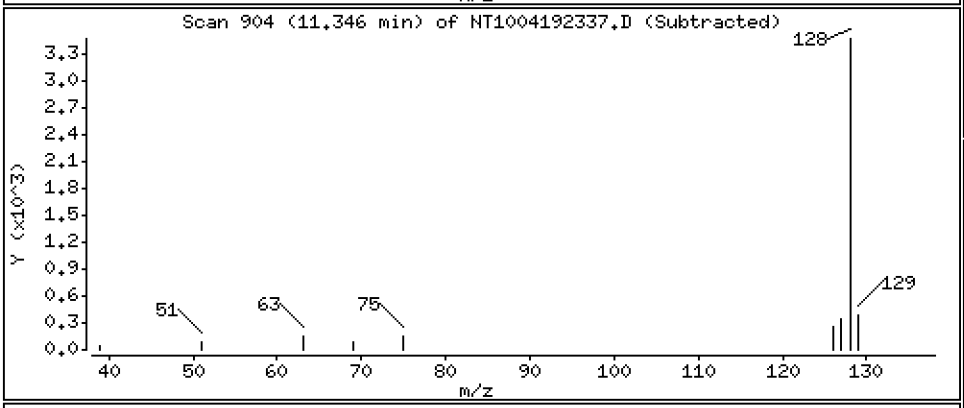
Column diameter: 0.25

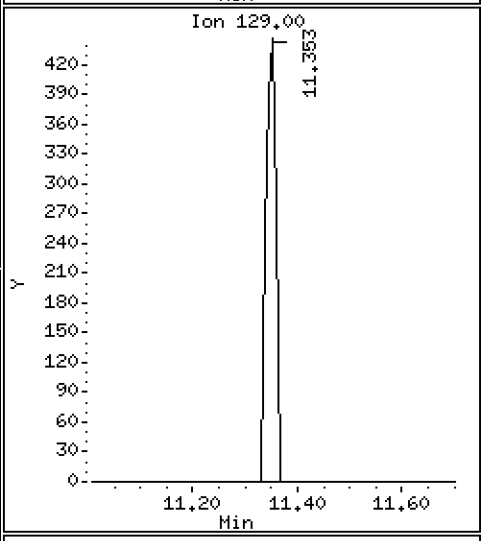
28 Naphthalene

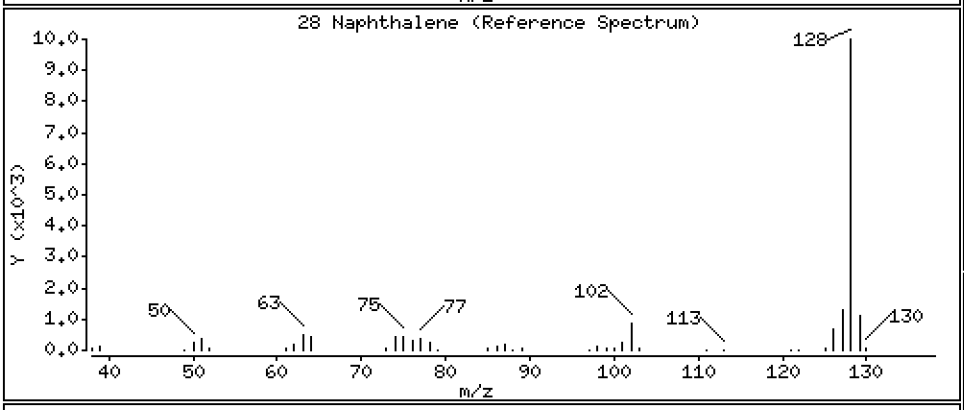
Concentration: 0.05175 ug/mL

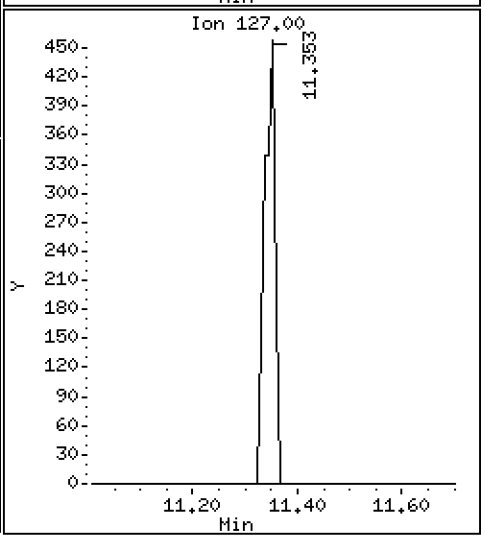


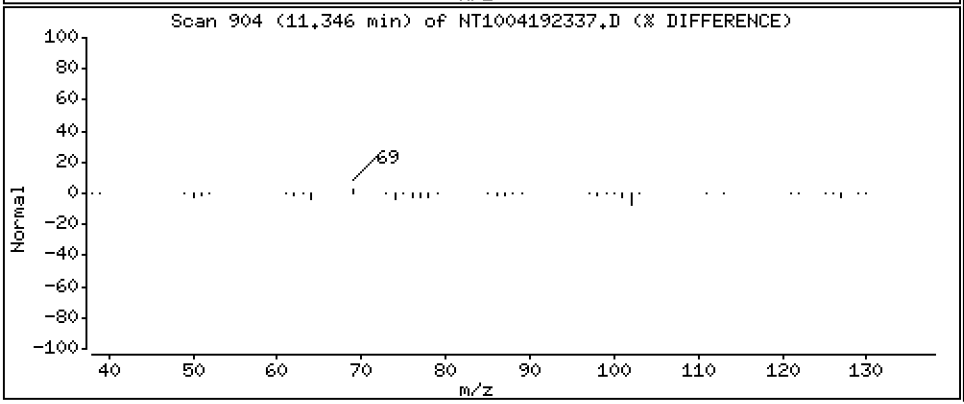












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Date : 20-APR-2023 10:13

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BLK1

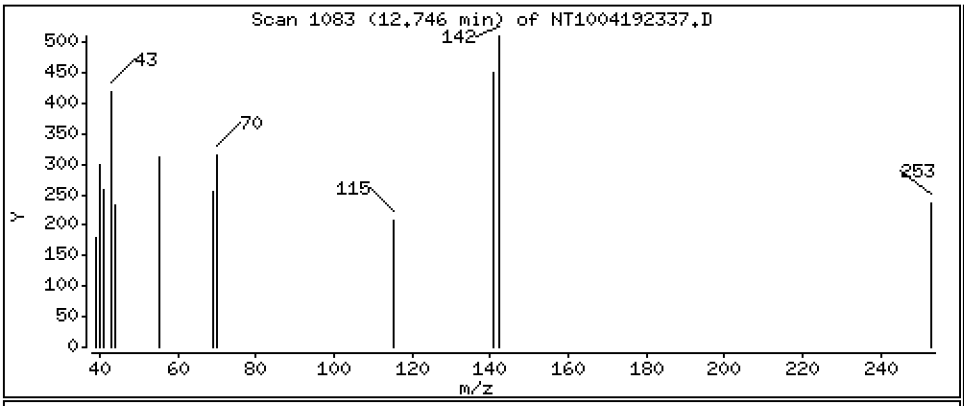
Operator: VTS

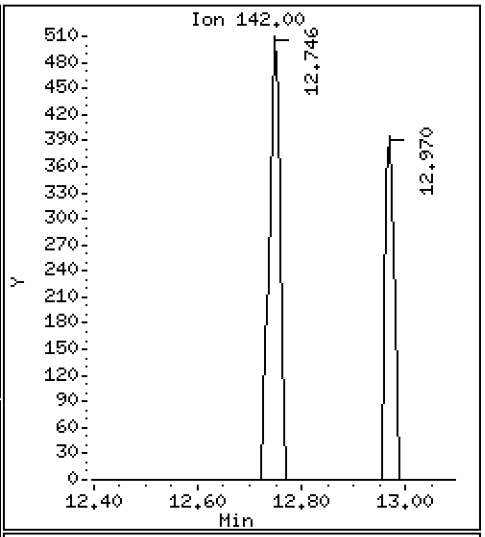
Column phase: ZB-5msi

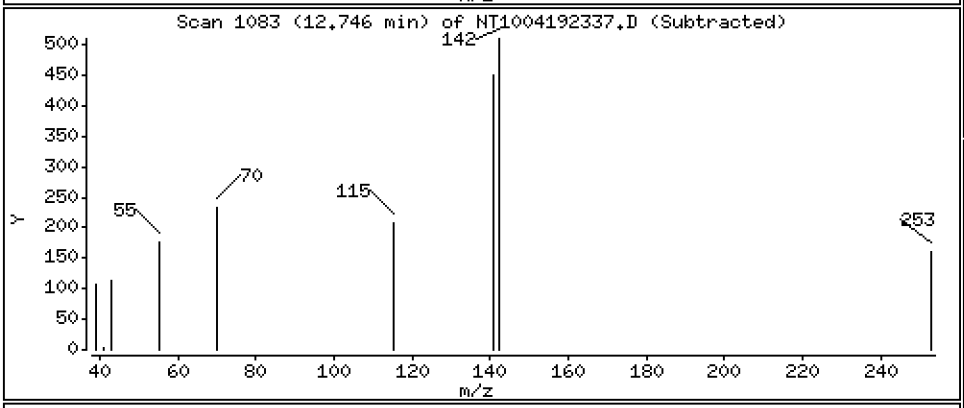
Column diameter: 0.25

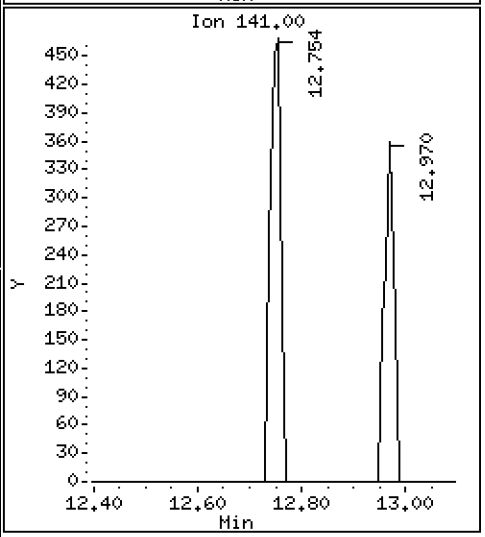
32 2-Methylnaphthalene

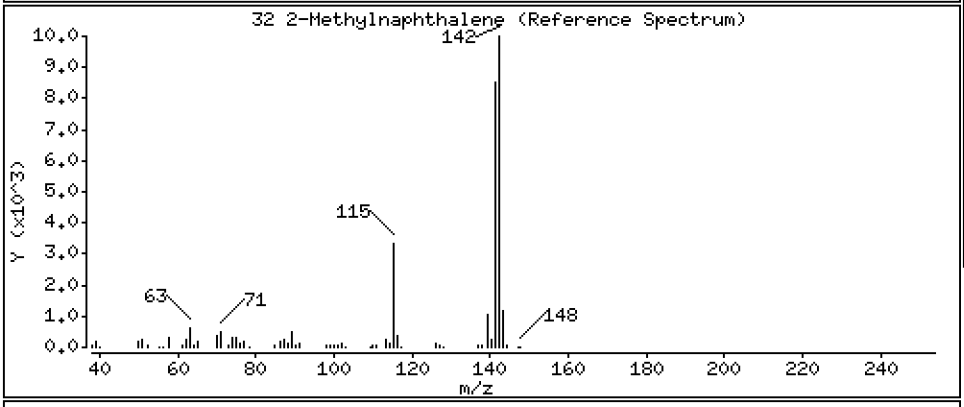
Concentration: 0.008148 ug/mL

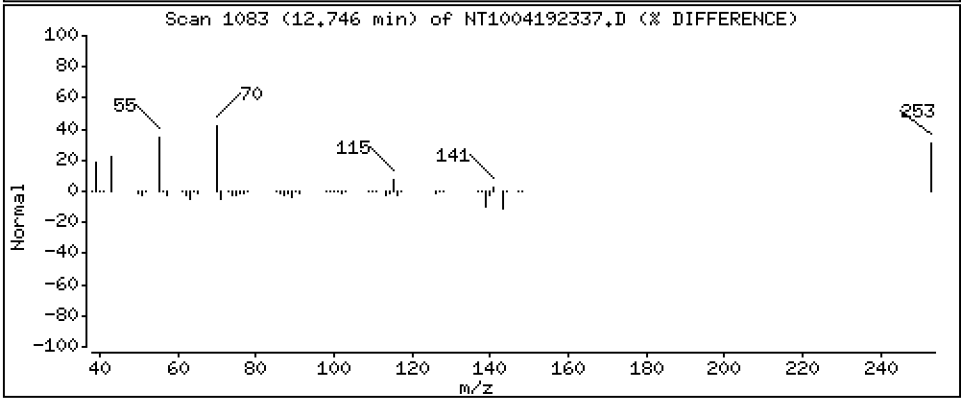












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192337.D

Date : 20-APR-2023 10:13

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BLK1

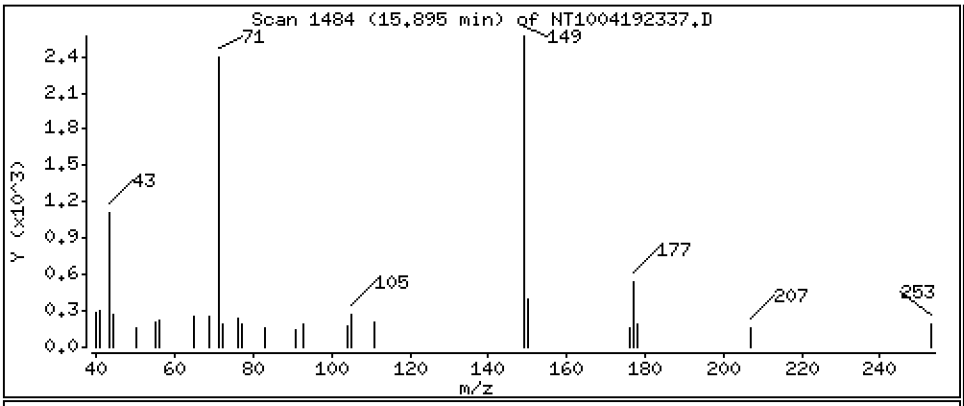
Operator: VTS

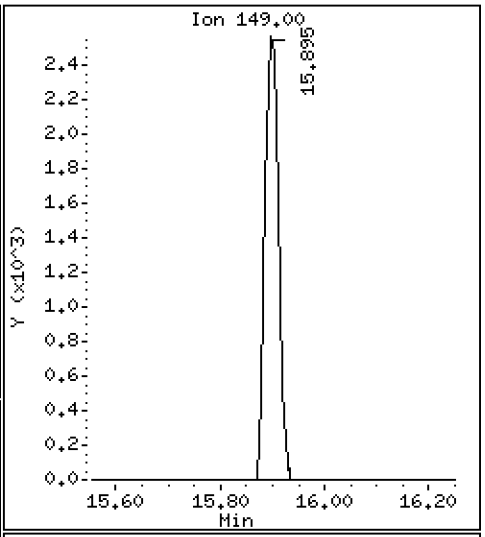
Column phase: ZB-5msi

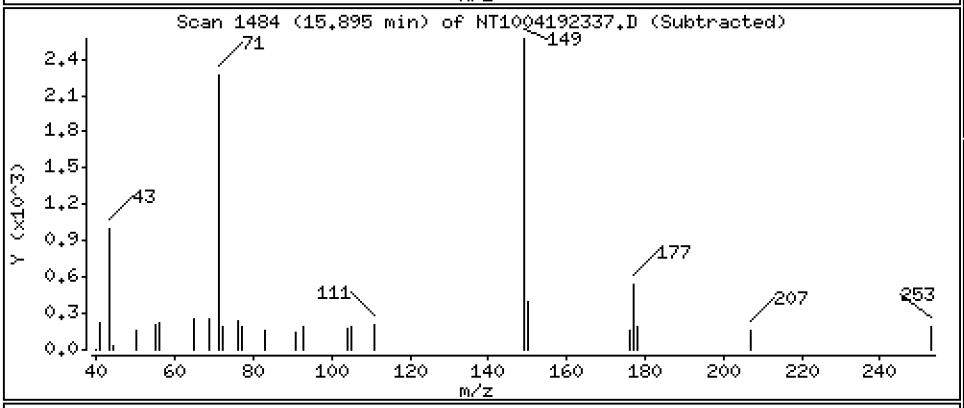
Column diameter: 0.25

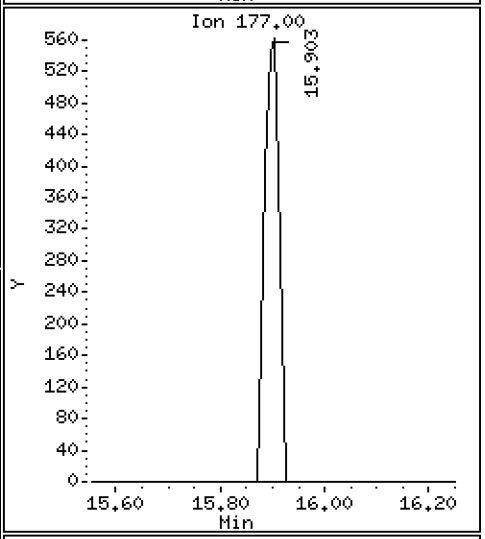
50 Diethylphthalate

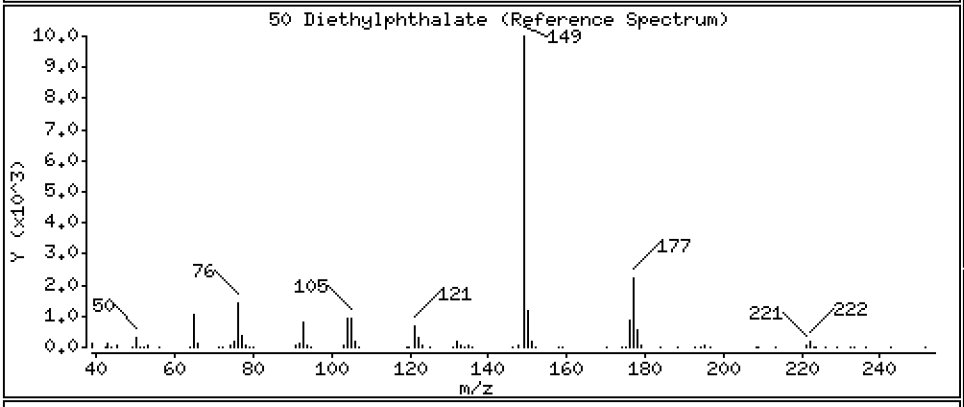
Concentration: 0.05387 ug/mL

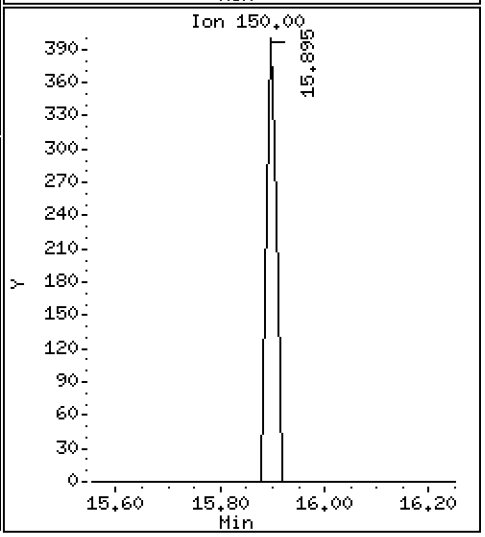


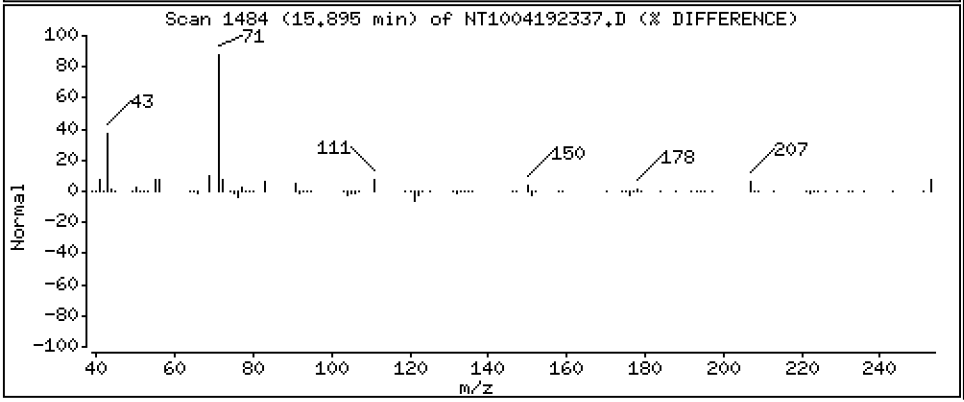












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Date : 20-APR-2023 10:13

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BLK1

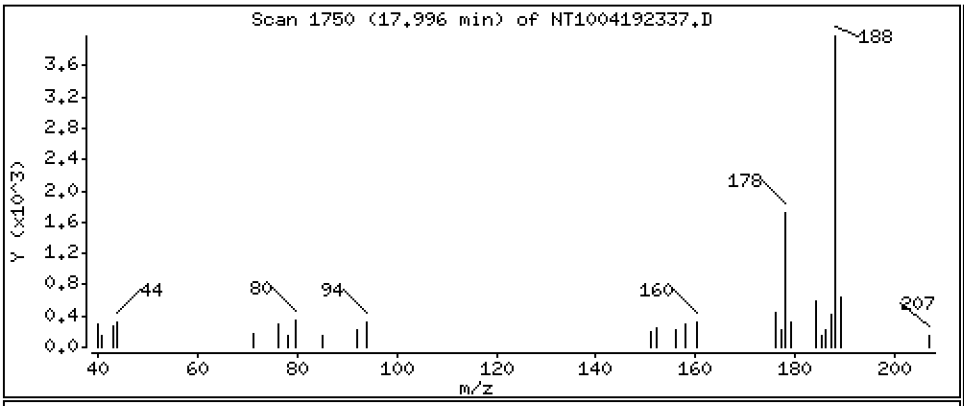
Operator: VTS

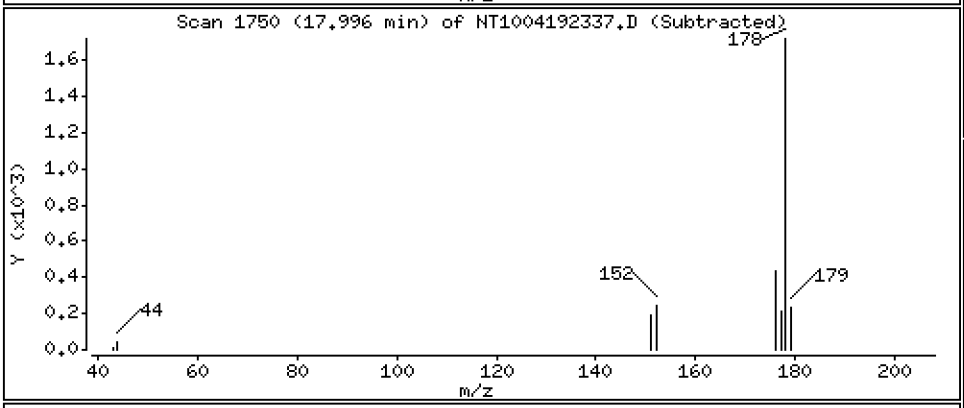
Column phase: ZB-5msi

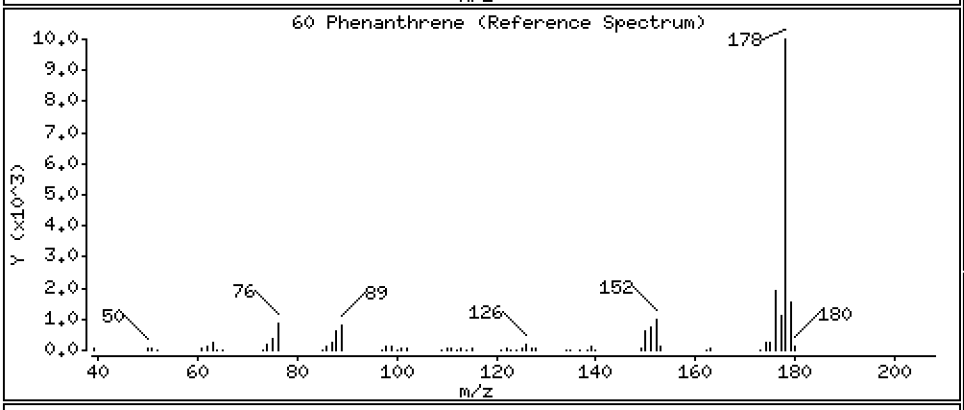
Column diameter: 0.25

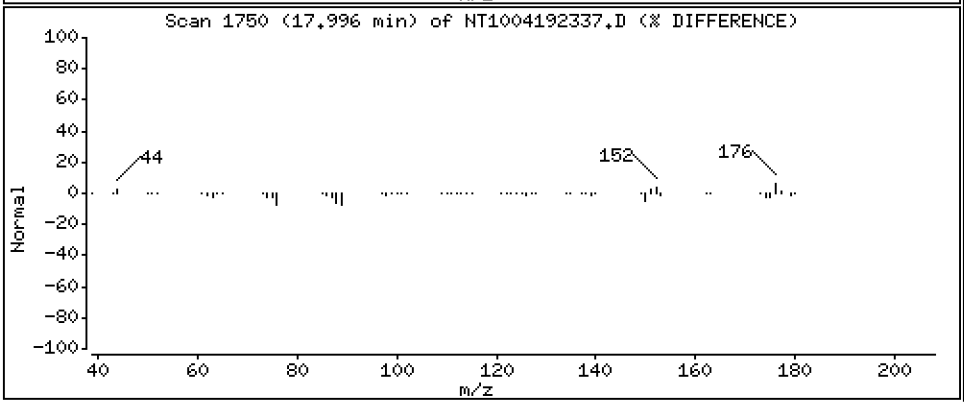
60 Phenanthrene

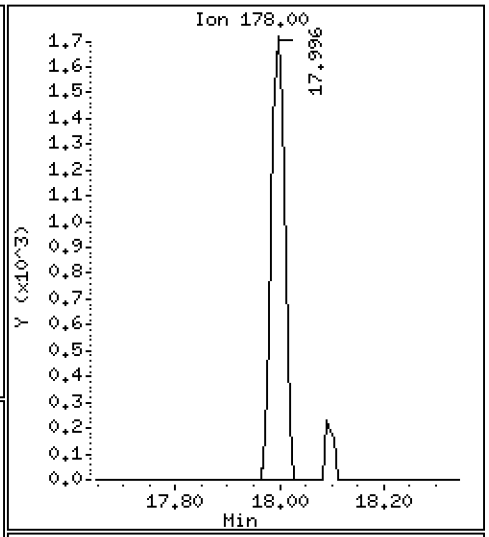
Concentration: 0.02373 ug/mL

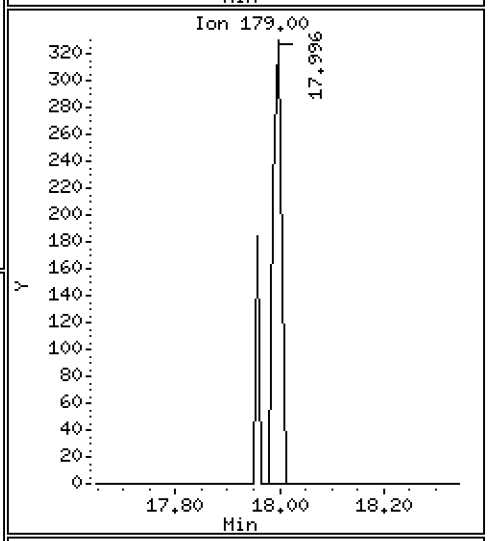


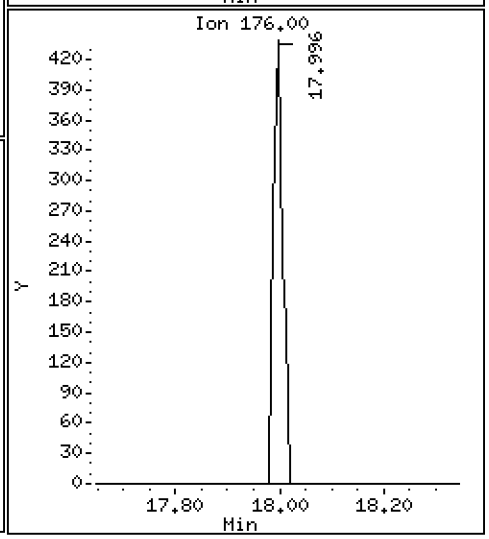












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192337.D

Date : 20-APR-2023 10:13

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BLK1

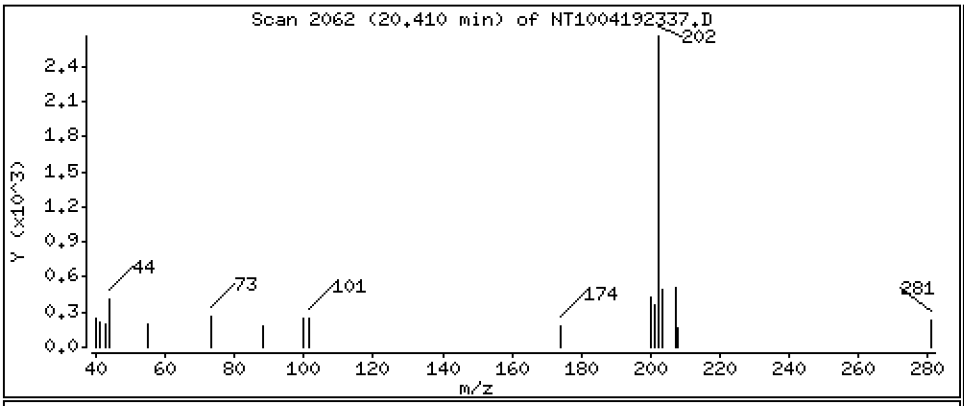
Operator: VTS

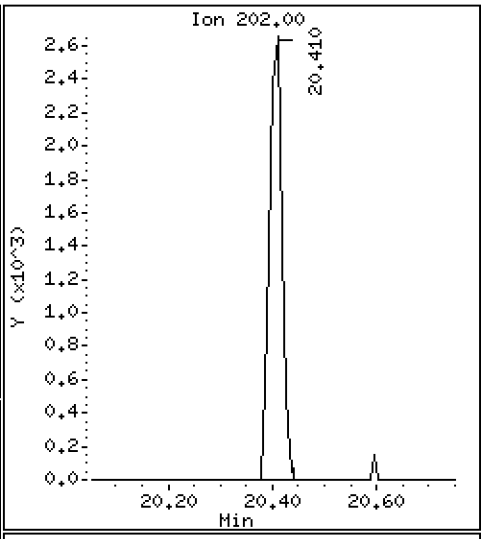
Column phase: ZB-5msi

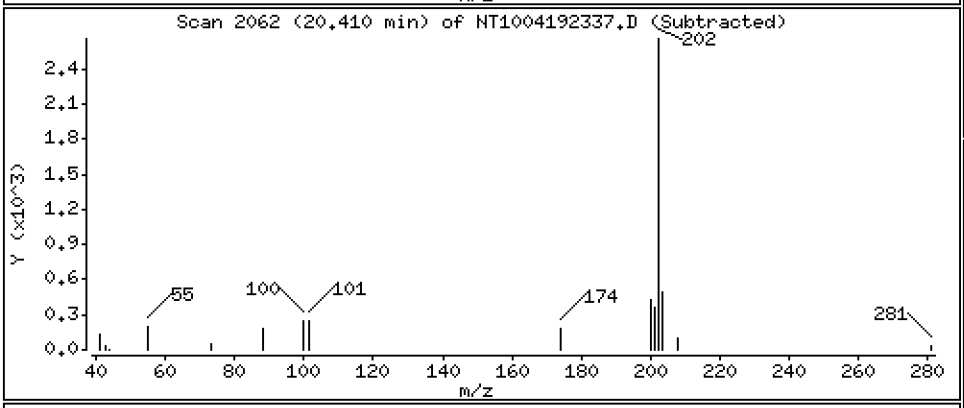
Column diameter: 0.25

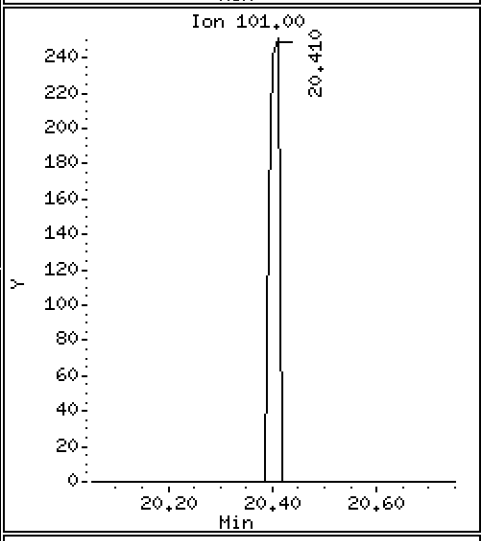
64 Fluoranthene

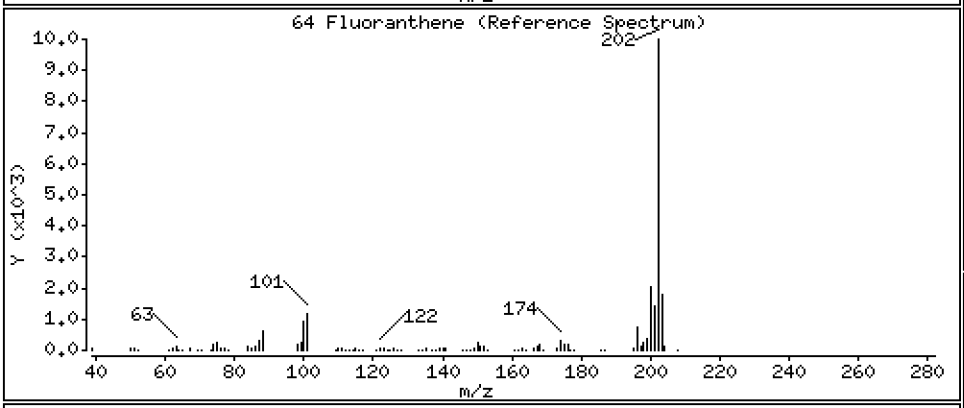
Concentration: 0.02458 ug/mL

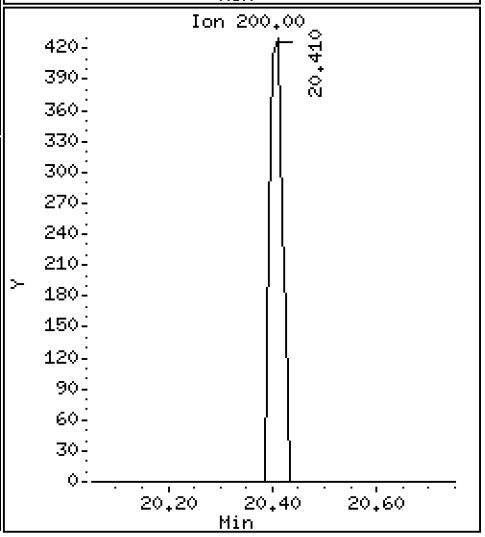


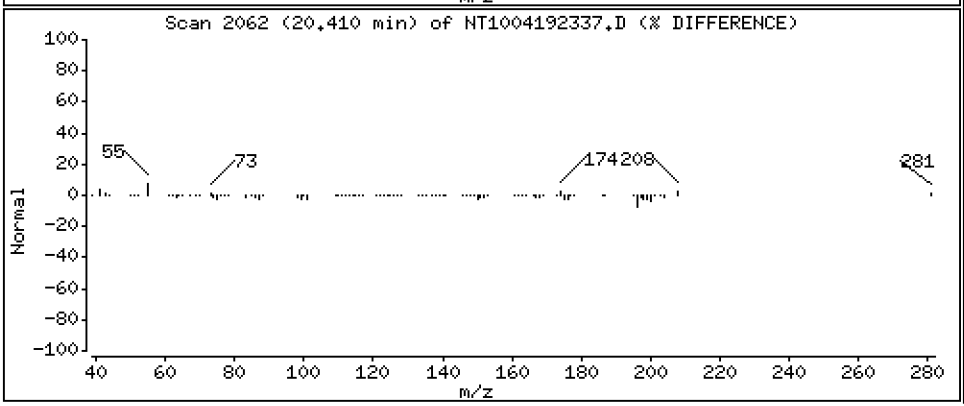












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Date : 20-APR-2023 10:13

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BLK1

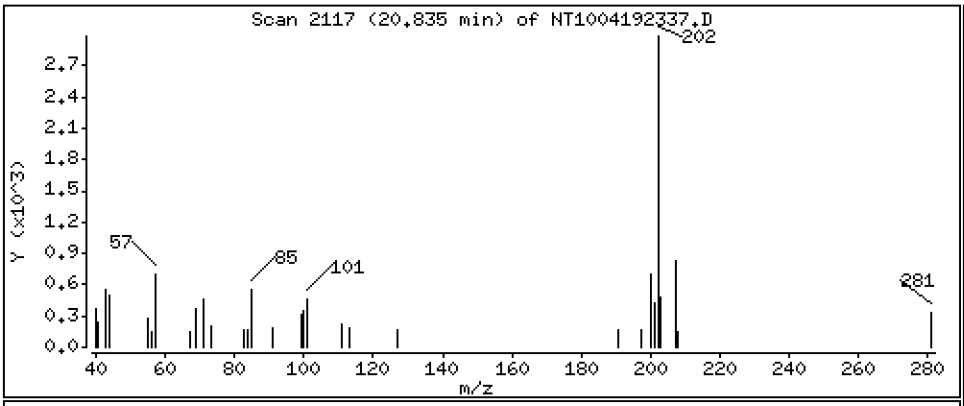
Operator: VTS

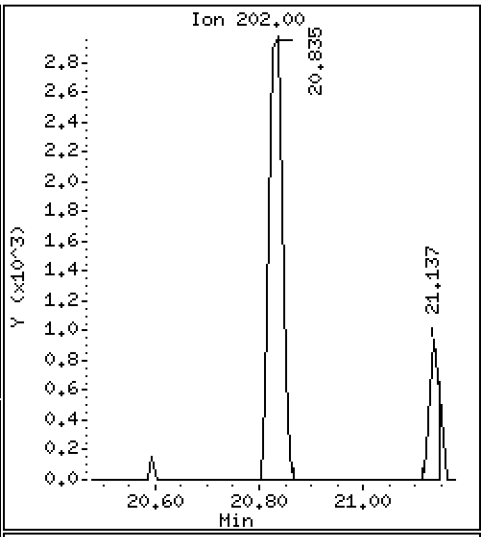
Column phase: ZB-5msi

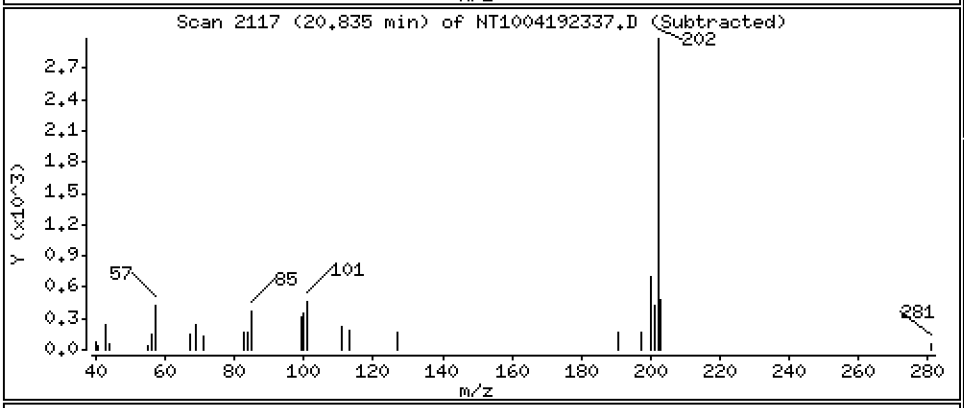
Column diameter: 0.25

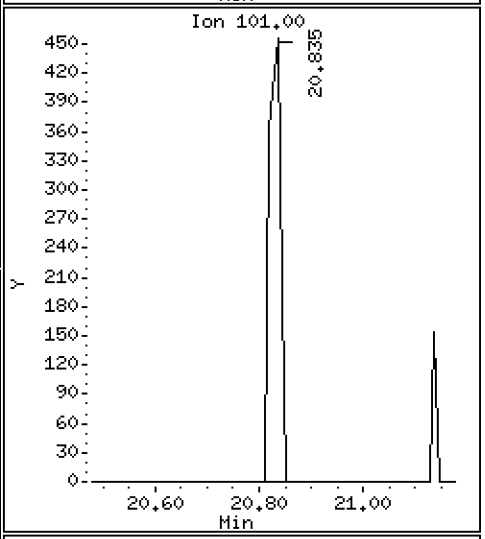
65 Pyrene

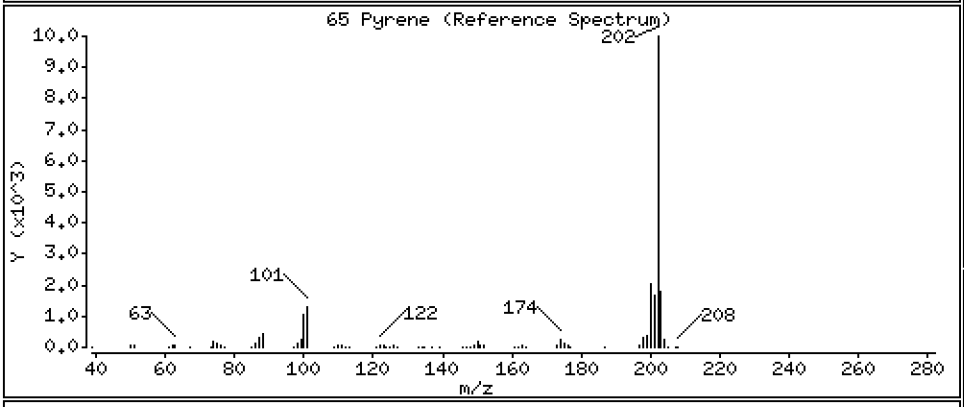
Concentration: 0.02905 ug/mL

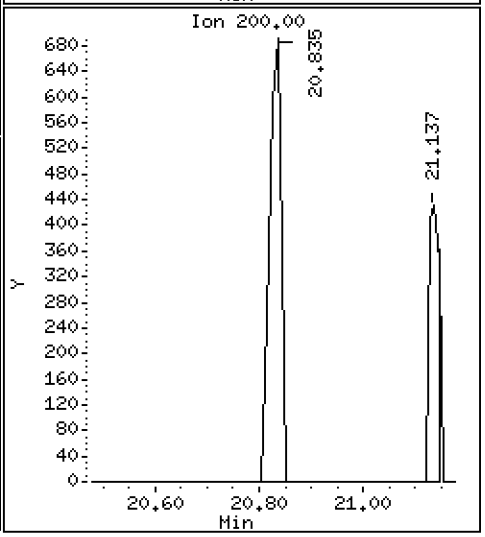


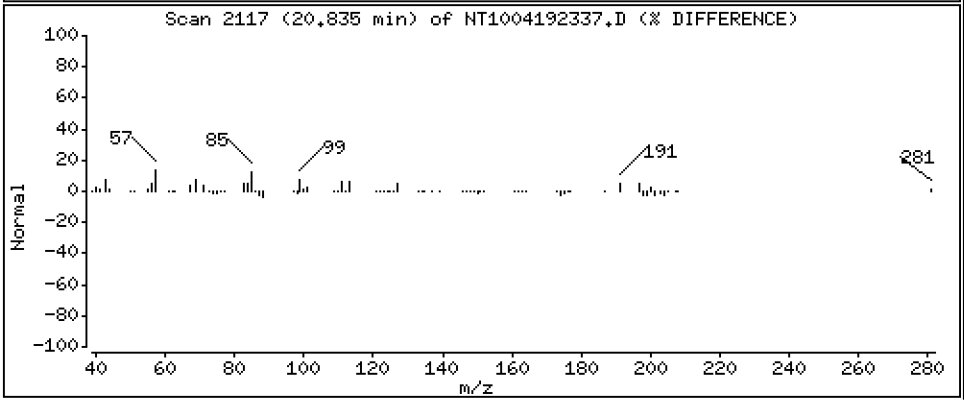












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Date : 20-APR-2023 10:13

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BLK1

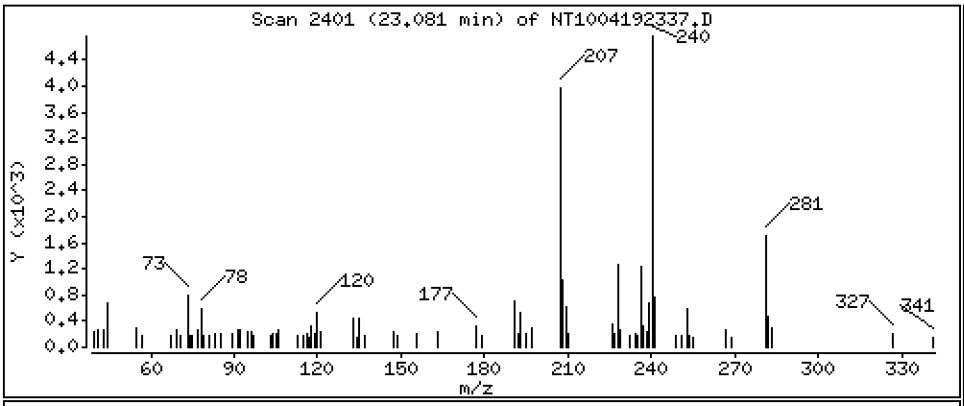
Operator: VTS

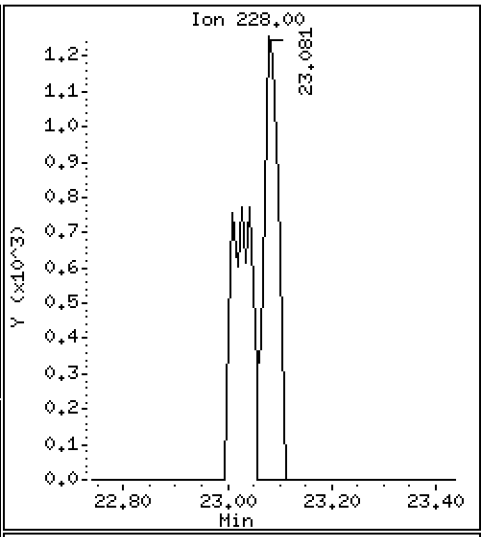
Column phase: ZB-5msi

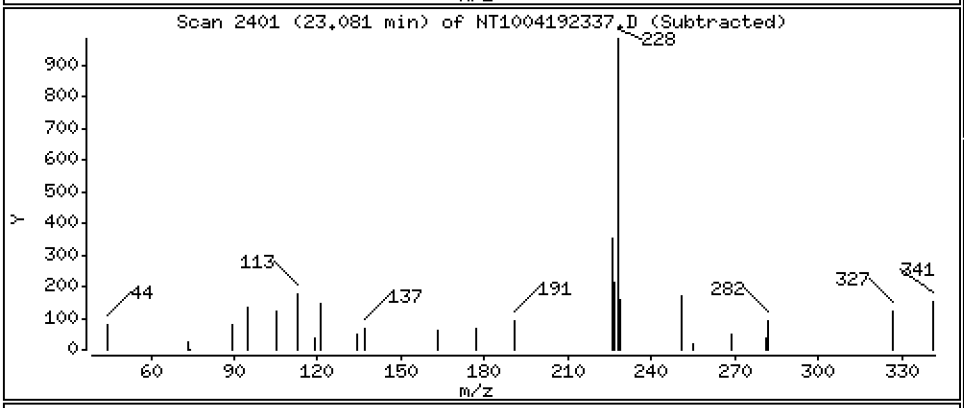
Column diameter: 0.25

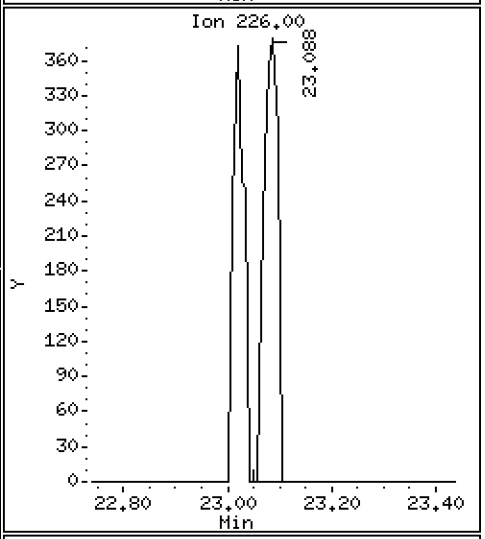
71 Chrysene

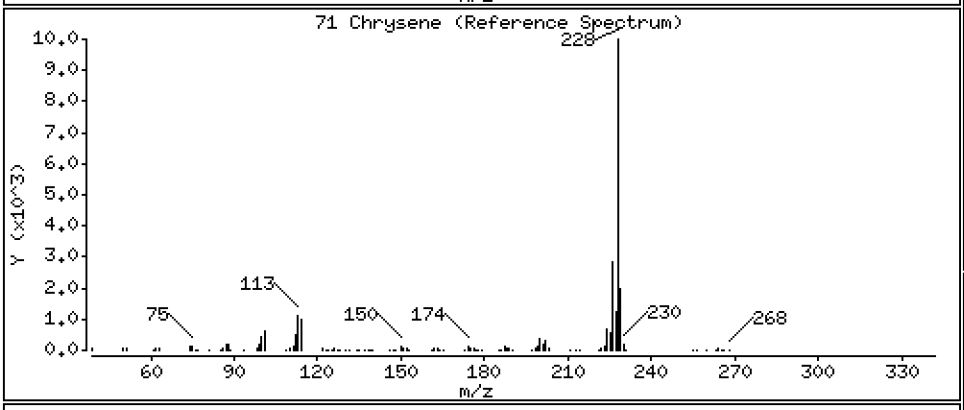
Concentration: 0.01646 ug/mL

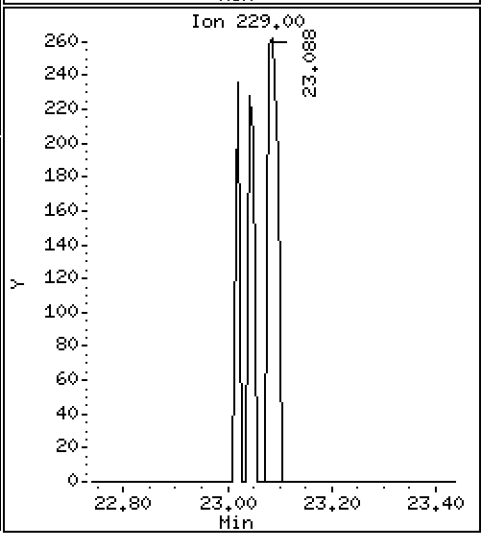


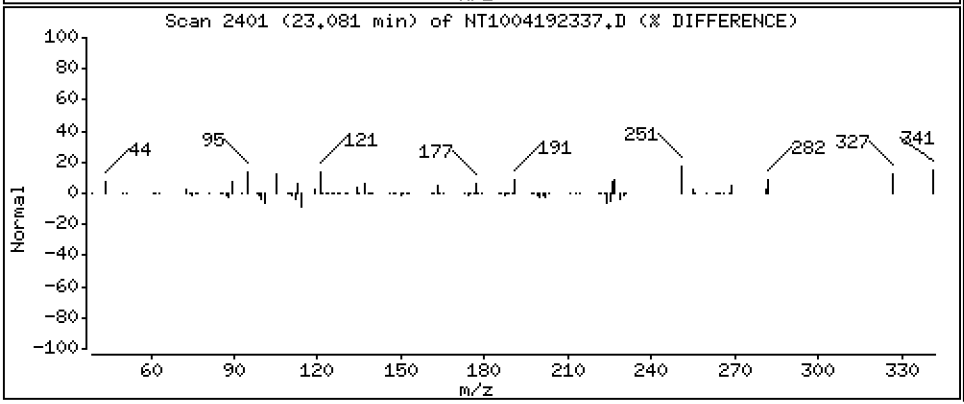












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192337.D

Date : 20-APR-2023 10:13

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BLK1

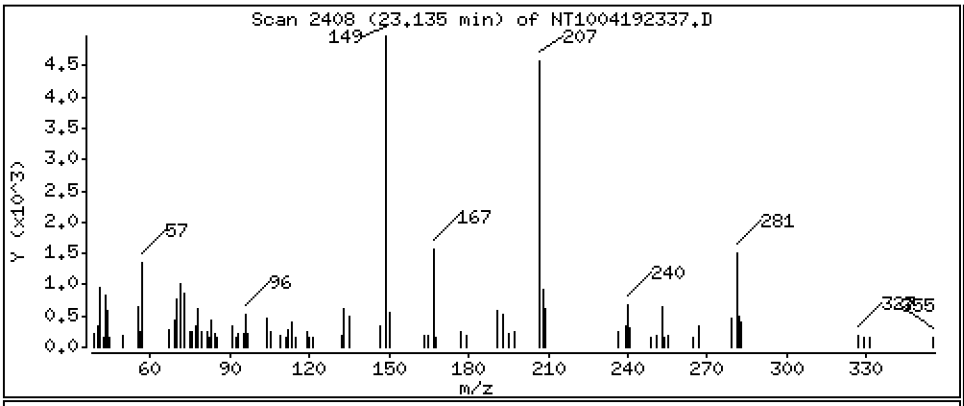
Operator: VTS

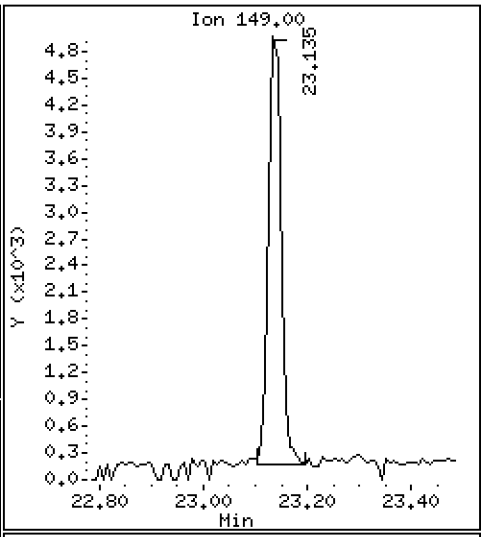
Column phase: ZB-5msi

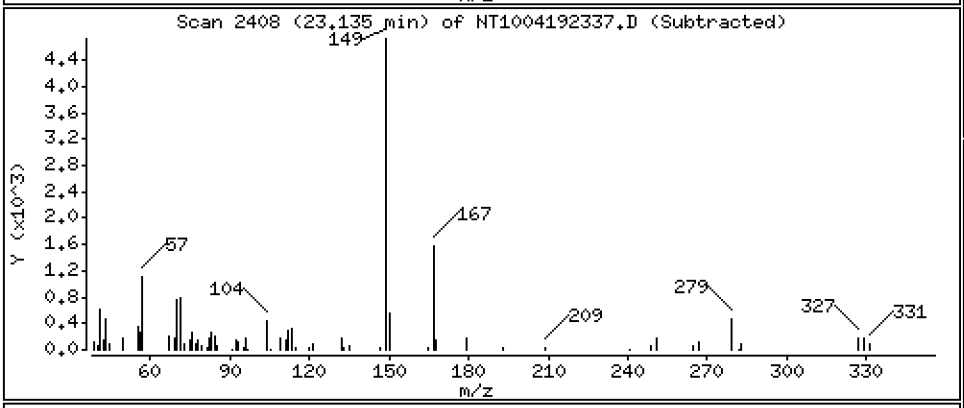
Column diameter: 0.25

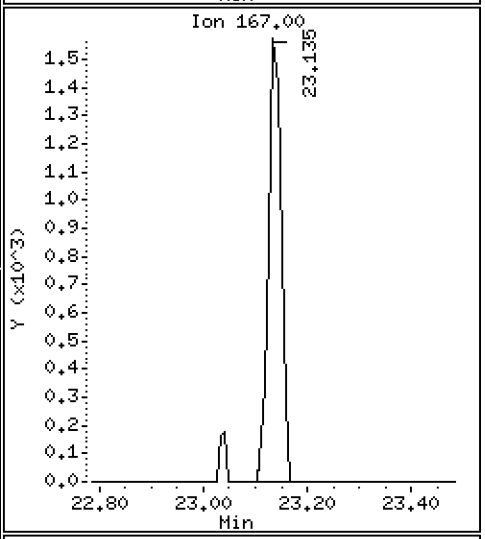
72 bis(2-Ethylhexyl)phthalate

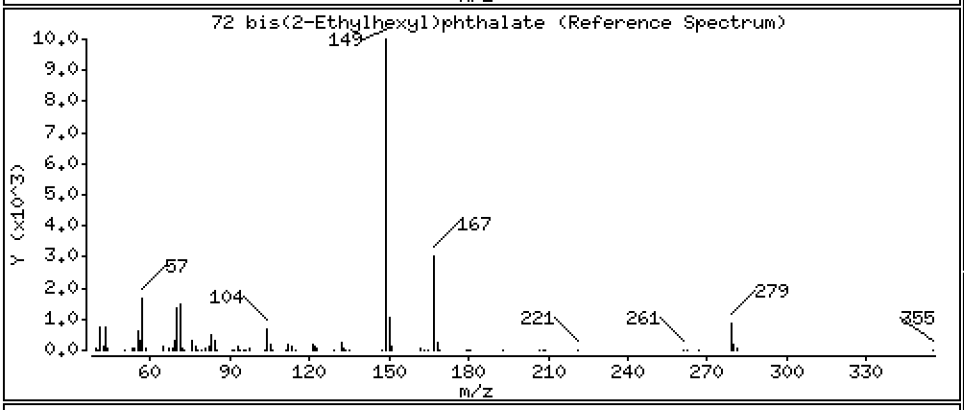
Concentration: 0.09635 ug/mL

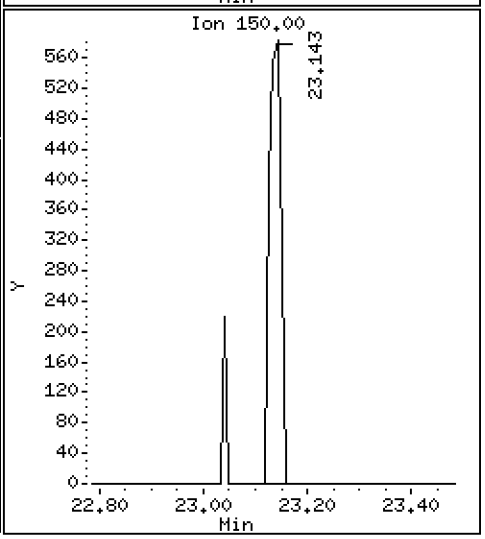


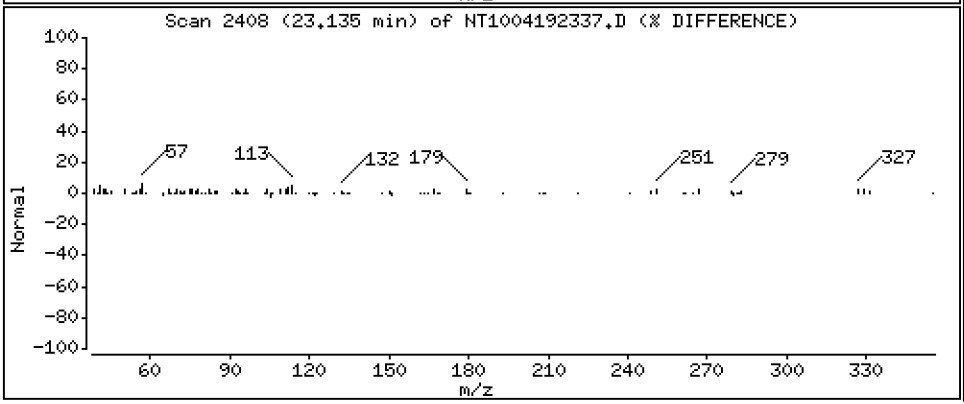












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192337.D

Date : 20-APR-2023 10:13

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BLK1

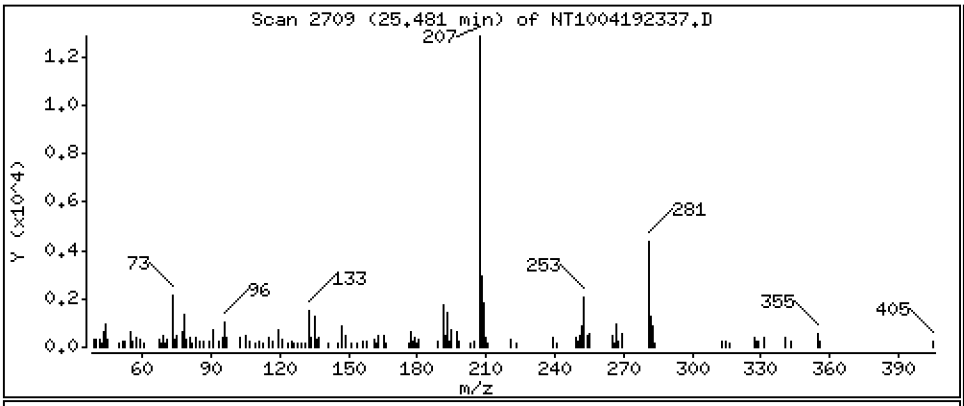
Operator: VTS

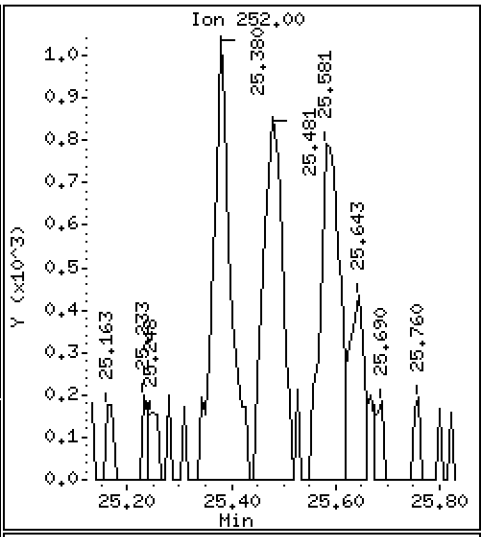
Column phase: ZB-5msi

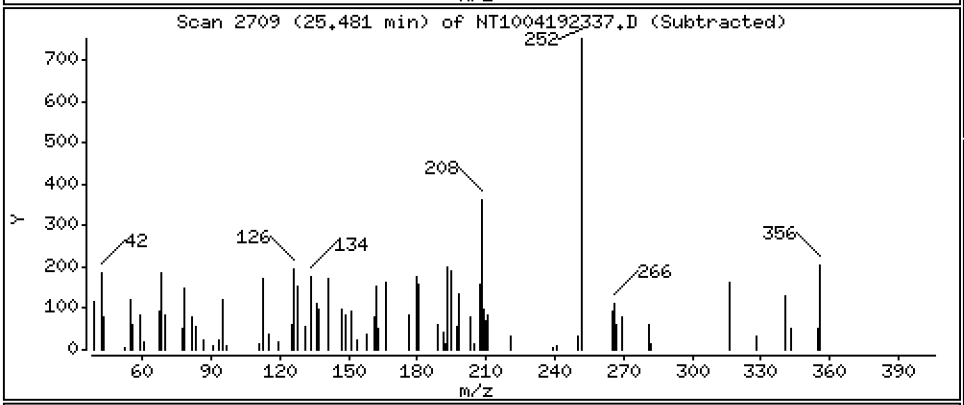
Column diameter: 0.25

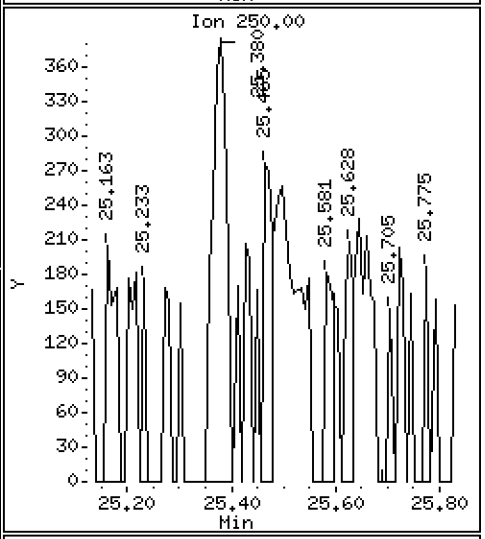
76 Benzo(a)pyrene

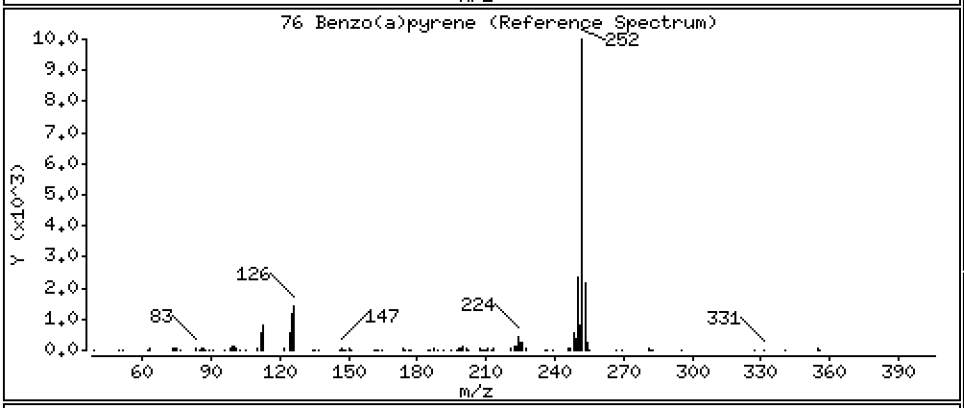
Concentration: 0.01609 ug/mL

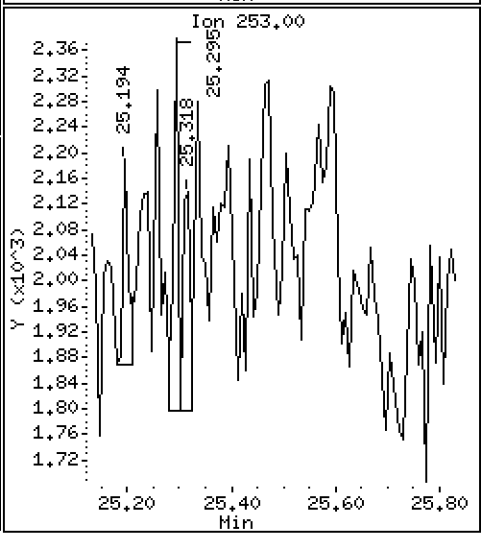


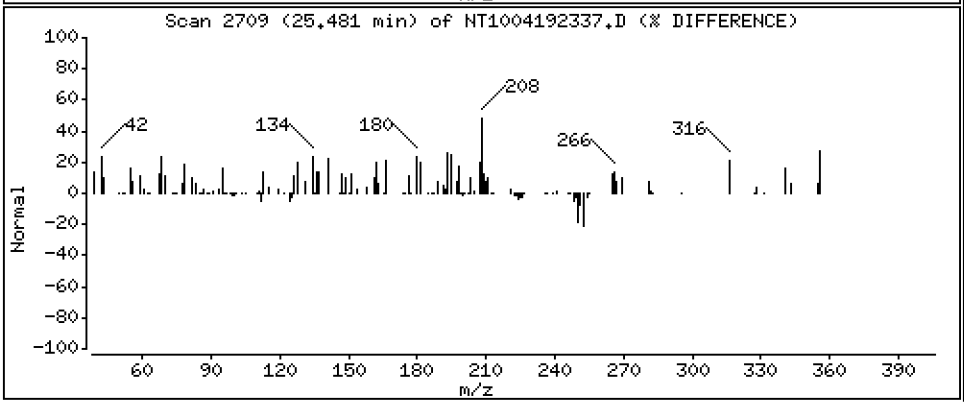












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Date : 20-APR-2023 10:13

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BLK1

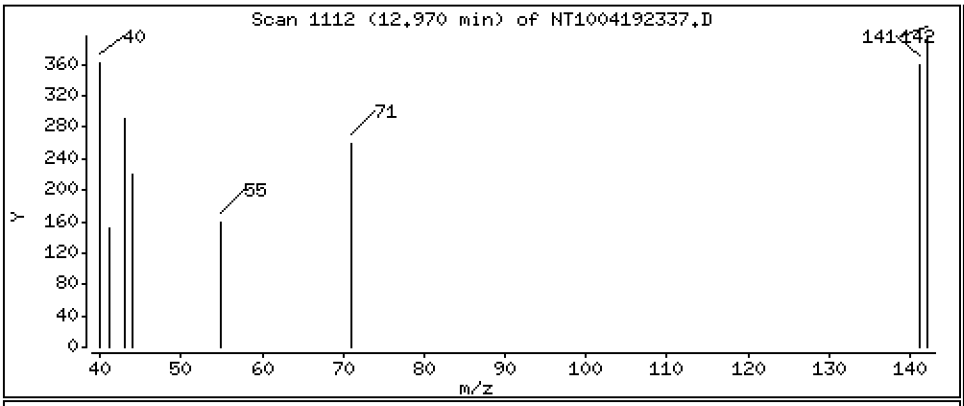
Operator: VTS

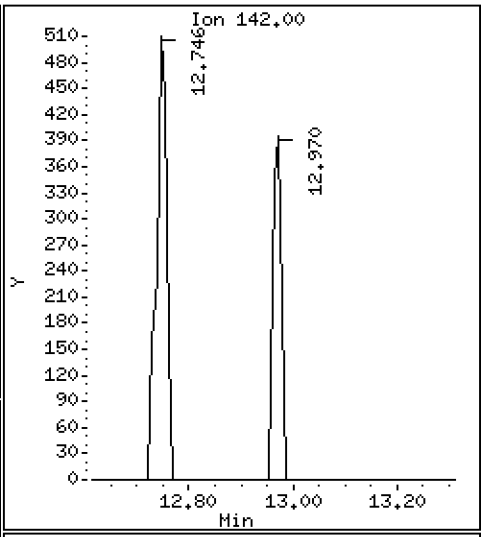
Column phase: ZB-5msi

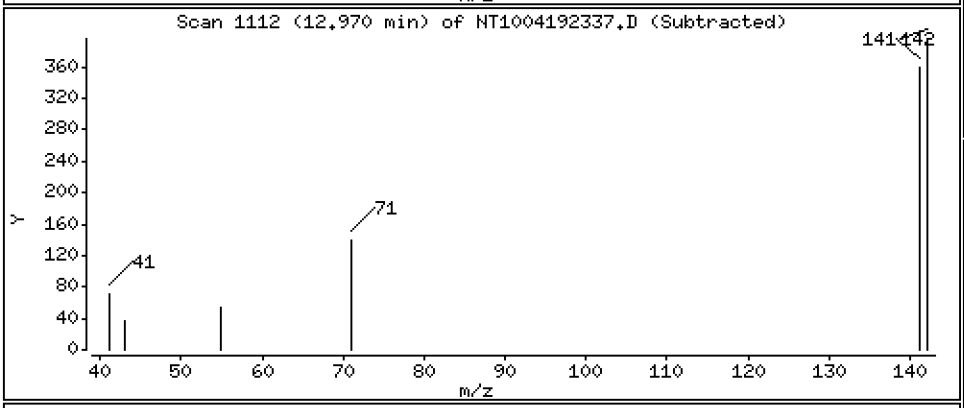
Column diameter: 0.25

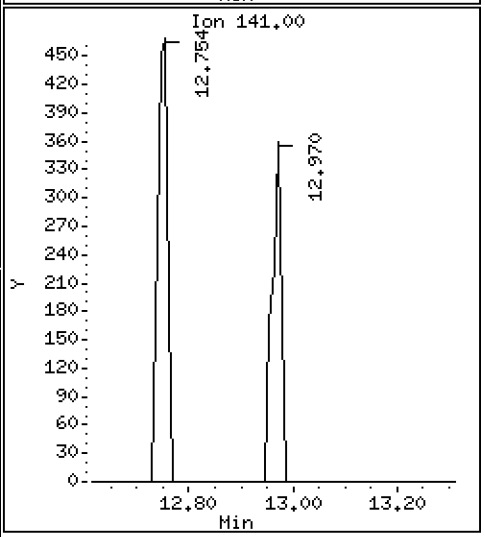
105 1-methylnaphthalene

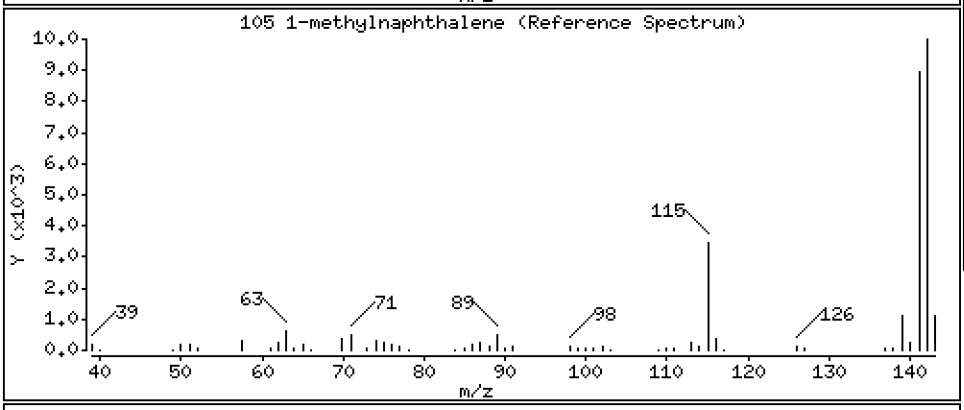
Concentration: 0.005592 ug/mL

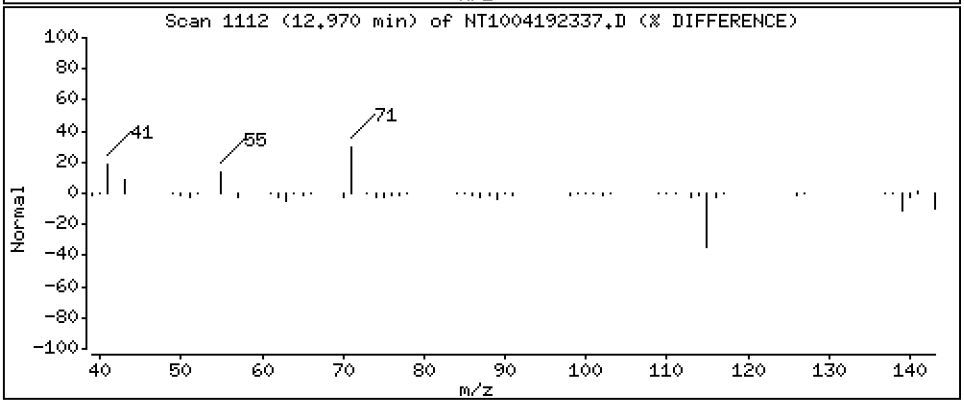












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230419B.b\NT1004192337.D
Lab Smp Id: BLD0008-BLK1
Inj Date : 20-APR-2023 10:13
Operator : VTS Inst ID: nt10.i
Smp Info : BLD0008-BLK1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Meth Date : 21-Apr-2023 11:46 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.620	6.612	(0.750)	144760	3.88411	3.884
$	2 Phenol-d5	99	8.211	8.219	(0.930)	193911	3.96607	3.966
	3 Phenol	94	8.235	8.235	(0.933)	3500	0.06889	0.06889
$	5 2-Chlorophenol-d4	132	8.474	8.474	(0.960)	200576	4.80414	4.804
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	8.830	8.830	(1.000)	123242	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	9.187	9.187	(1.040)	89616	2.98885	2.989
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	9.925	9.925	(0.878)	132995	2.95319	2.953
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.307	11.307	(1.000)	446167	4.00000	
	28 Naphthalene	128	11.345	11.353	(1.003)	6117	0.05175	0.05175
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	12.745	12.746	(1.127)	695	0.00815	0.008148
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.535	13.527	(0.908)	304340	2.96818	2.968
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	Compound Not Detected.					
	40	Acenaphthylene	152	Compound Not Detected.					
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	14.912	14.913	(1.000)	259205	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	Compound Not Detected.					
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	Compound Not Detected.					
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	15.894	15.902	(1.066)	4451	0.05387	0.05387
	49	Fluorene	166	Compound Not Detected.					
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	16.558	16.558	(1.110)	51163	4.21810	4.218
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	17.949	17.949	(1.000)	454746	4.00000	
	60	Phenanthrene	178	17.995	17.996	(1.003)	2943	0.02373	0.02373
	61	Anthracene	178	Compound Not Detected.					
	62	Carbazole	167	Compound Not Detected.					
	63	Di-n-butylphthalate	149	Compound Not Detected.					
	64	Fluoranthene	202	20.409	20.402	(0.886)	4189	0.02458	0.02458
	65	Pyrene	202	20.835	20.827	(0.904)	5079	0.02905	0.02905
$	66	Terphenyl-d14	244	21.137	21.137	(0.917)	387290	2.94991	2.950
	67	Butylbenzylphthalate	149	Compound Not Detected.					
	68	Benzo(a)anthracene	228	Compound Not Detected.					
*	69	Chrysene-d12	240	23.041	23.042	(1.000)	424129	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.080	23.088	(1.002)	2407	0.01646	0.01646
	72	bis(2-Ethylhexyl)phthalate	149	23.134	23.135	(0.959)	7723	0.09635	0.09635
*	134	Di-n-octylphthalate-d4	153	24.125	24.126	(1.000)	548070	4.00000	
	73	Di-n-octylphthalate	149	Compound Not Detected.					
	74	Benzo(b)fluoranthene	252	Compound Not Detected.					
	75	Benzo(k)fluoranthene	252	Compound Not Detected.					
	76	Benzo(a)pyrene	252	25.480	25.481	(0.996)	2144	0.01609	0.01609
*	77	Perylene-d12	264	25.589	25.589	(1.000)	459776	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80	Benzo(g,h,i)perylene	276	Compound Not Detected.					
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	12.970	12.962	(1.147)	437	0.00559	0.005592
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192337.D
Lab Smp Id: BLD0008-BLK1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Misc Info:

Calibration Date: 20-APR-2023
Calibration Time: 07:41
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	129725	64863	259450	123242	-5.00
27 Naphthalene-d8	475671	237836	951342	446167	-6.20
42 Acenaphthene-d10	277889	138945	555778	259205	-6.72
59 Phenanthrene-d10	485346	242673	970692	454746	-6.30
69 Chrysene-d12	453075	226538	906150	424129	-6.39
134 Di-n-octylphthala	697265	348633	1394530	548070	-21.40
77 Perylene-d12	538138	269069	1076276	459776	-14.56

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.83	8.33	9.33	8.83	-0.00
27 Naphthalene-d8	11.31	10.81	11.81	11.31	-0.00
42 Acenaphthene-d10	14.91	14.41	15.41	14.91	-0.00
59 Phenanthrene-d10	17.95	17.45	18.45	17.95	-0.00
69 Chrysene-d12	23.04	22.54	23.54	23.04	-0.00
134 Di-n-octylphthala	24.13	23.63	24.63	24.13	-0.00
77 Perylene-d12	25.59	25.09	26.09	25.59	-0.00

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

REVIEW SUMMARY FOR FILE - NT1004192337.D

Lab ID: BLD0008-BLK1
nt10.i, 20230419B.b\ABN.m,   20-APR-2023 10:13

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1004192333.D

On Column LOD for nt10.i, 20230419B.b\ABN.m, ICAL.sub = 0.0000

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

LCS / LCS DUPLICATE RECOVERY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	04/20/23 10:51
Batch:	BLD0008	Laboratory ID:	BLD0008-BS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	10 g / 1 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Phenol	500	275		55.1	34 - 120
4-Methylphenol	500	287		57.3	29 - 120
Naphthalene	500	301		60.3	43 - 120
2-Methylnaphthalene	500	305		60.9	43 - 120
Acenaphthylene	500	279		55.7	42 - 120
Dimethylphthalate	500	337		67.5	43 - 120
Acenaphthene	500	292		58.5	45 - 120
Dibenzofuran	500	290		58.1	43 - 120
Fluorene	500	303		60.5	45 - 120
Phenanthrene	500	310		61.9	49 - 120
Anthracene	500	263		52.5	45 - 120
Fluoranthene	500	273	Q	54.7	53 - 145
Pyrene	500	275	Q	55.0	52 - 134
Butylbenzylphthalate	500	322		64.4	45 - 132
Benzo(a)anthracene	500	303		60.7	49 - 120
Chrysene	500	289		57.7	47 - 120
bis(2-Ethylhexyl)phthalate	500	310		62.0	34 - 130
Benzofluoranthenes, Total	1000	666		66.6	30 - 160
Benzo(a)pyrene	500	302		60.4	42 - 120
Indeno(1,2,3-cd)pyrene	500	254		50.7	42 - 163
Dibenzo(a,h)anthracene	500	256		51.3	30 - 133
Benzo(g,h,i)perylene	500	212	*, Q	42.5 *	46 - 148

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	500	285		57.1	3.58	30	34 - 120
4-Methylphenol	500	306		61.1	6.39	30	29 - 120
Naphthalene	500	324		64.9	7.35	30	43 - 120
2-Methylnaphthalene	500	329		65.8	7.70	30	43 - 120
Acenaphthylene	500	297		59.4	6.31	30	42 - 120
Dimethylphthalate	500	367		73.3	8.26	30	43 - 120
Acenaphthene	500	315		63.0	7.37	30	45 - 120

* Indicates values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	04/20/23 11:29
Batch:	BLD0008	Laboratory ID:	BLD0008-BSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS Dup
Initial/Final:	10 g / 1 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibenzofuran	500	315		63.0	8.06	30	43 - 120
Fluorene	500	328		65.7	8.10	30	45 - 120
Phenanthrene	500	343		68.6	10.2	30	49 - 120
Anthracene	500	300		60.1	13.4	30	45 - 120
Fluoranthene	500	294	Q	58.7	7.16	30	53 - 145
Pyrene	500	285	Q	57.0	3.52	30	52 - 134
Butylbenzylphthalate	500	337		67.3	4.45	30	45 - 132
Benzo(a)anthracene	500	321		64.3	5.78	30	49 - 120
Chrysene	500	304		60.7	5.07	30	47 - 120
bis(2-Ethylhexyl)phthalate	500	328		65.6	5.74	30	34 - 130
Benzofluoranthenes, Total	1000	728		72.8	8.93	30	30 - 160
Benzo(a)pyrene	500	338		67.6	11.3	30	42 - 120
Indeno(1,2,3-cd)pyrene	500	272		54.5	7.13	30	42 - 163
Dibenzo(a,h)anthracene	500	274		54.8	6.59	30	30 - 133
Benzo(g,h,i)perylene	500	233	Q	46.5	9.10	30	46 - 148

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192338.D

Date : 20-APR-2023 10:51

Client ID:

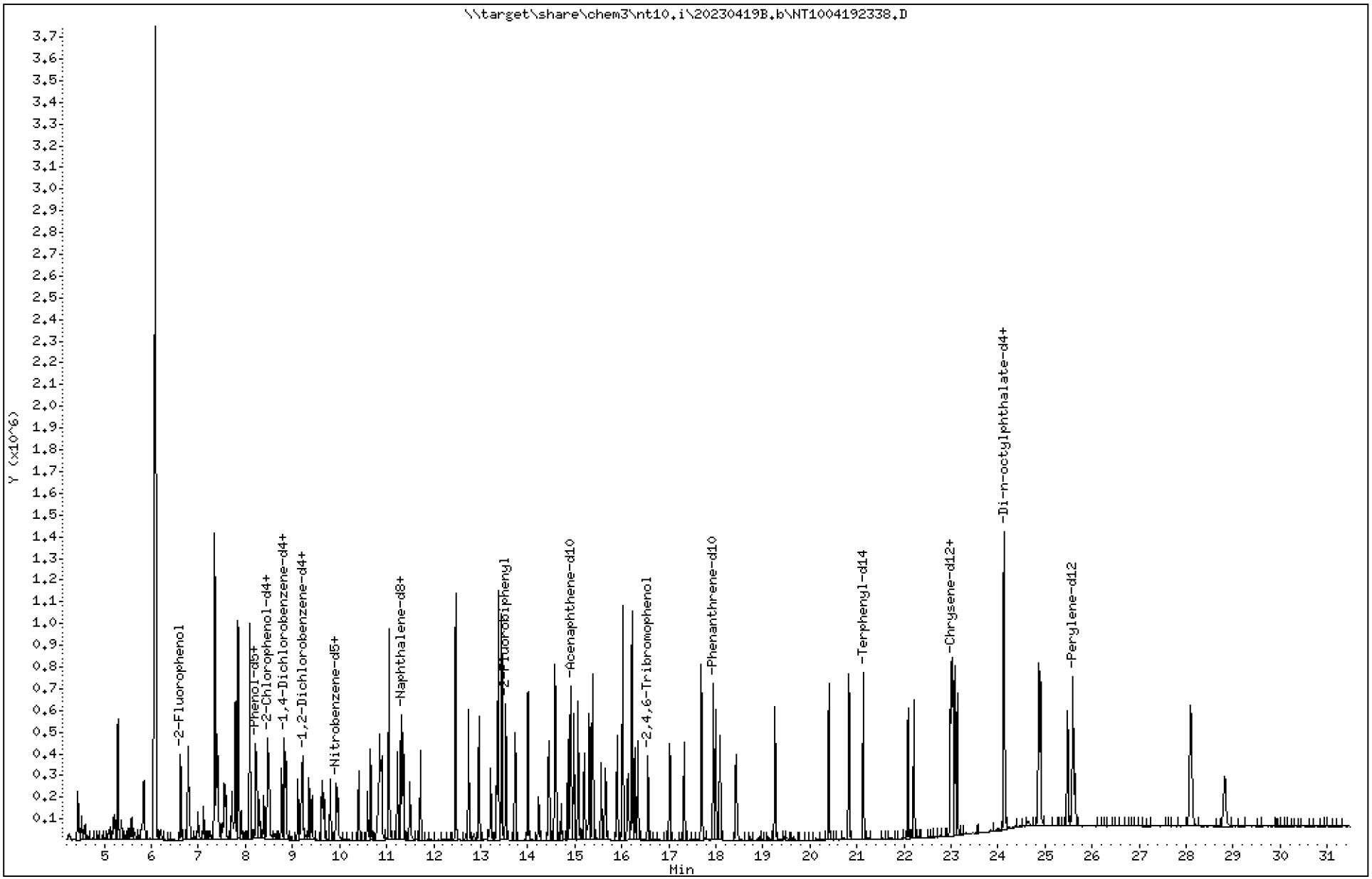
Instrument: nt10.i

Sample Info: BLD0008-BS1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192338.D

Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

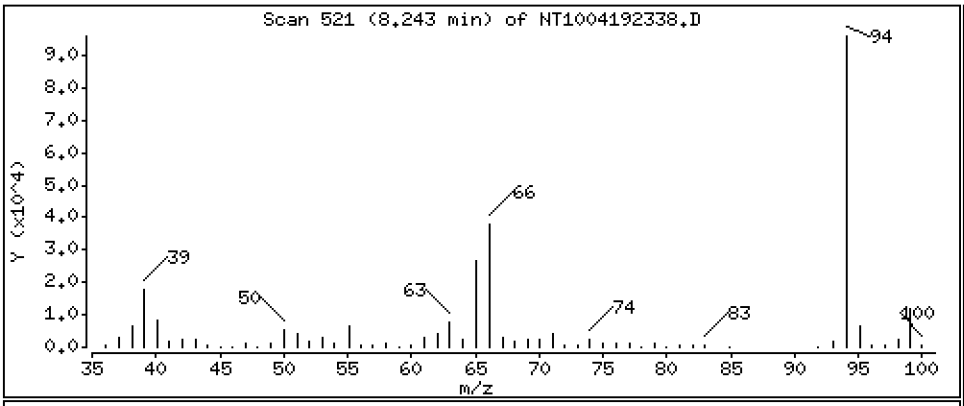
Operator: VTS

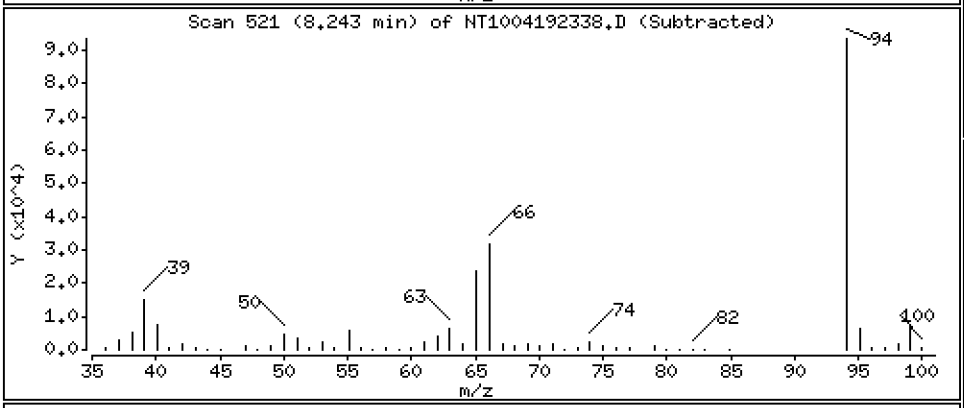
Column phase: ZB-5msi

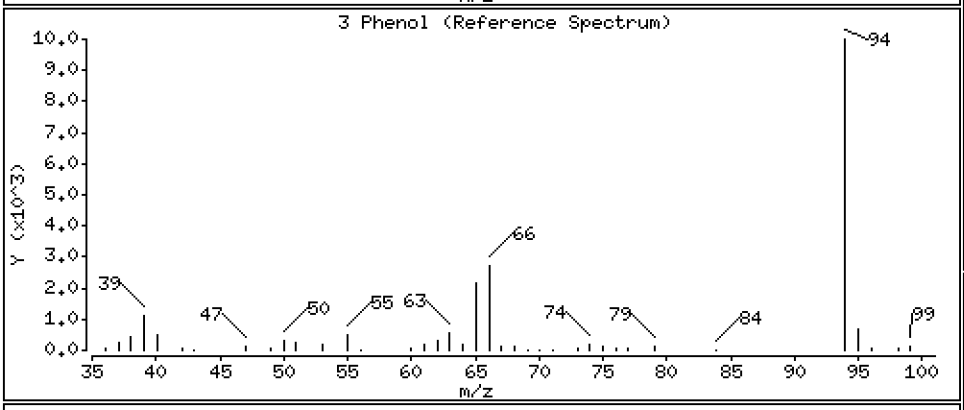
Column diameter: 0.25

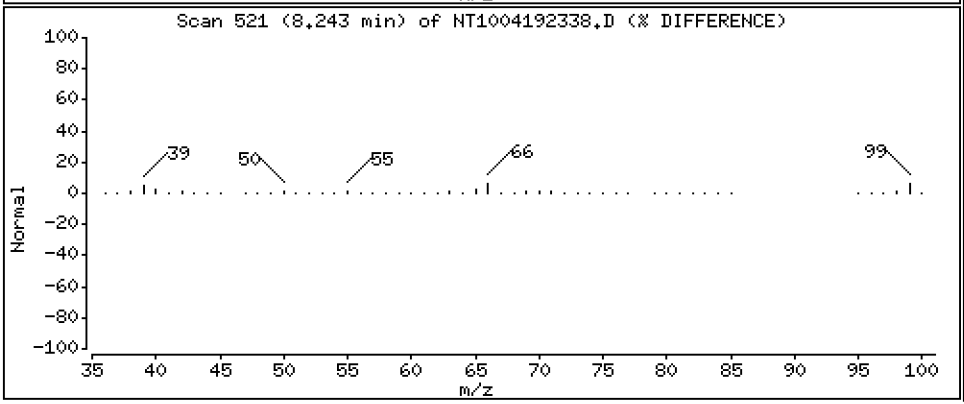
3 Phenol

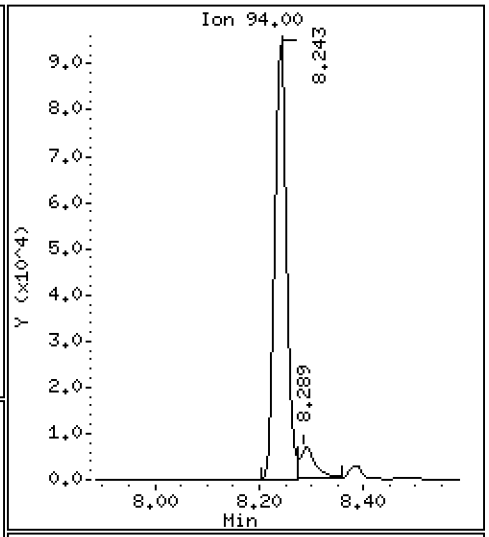
Concentration: 2.754 ug/mL

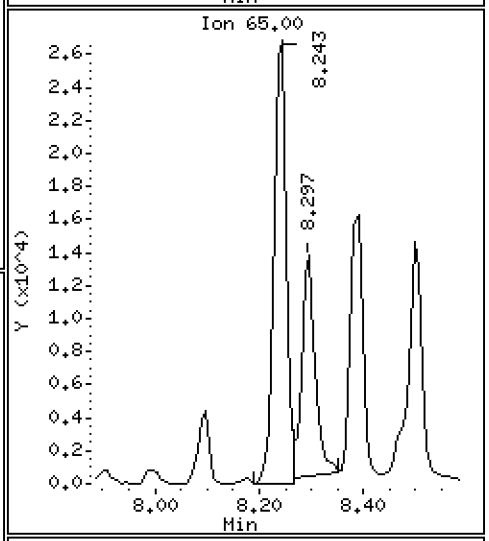


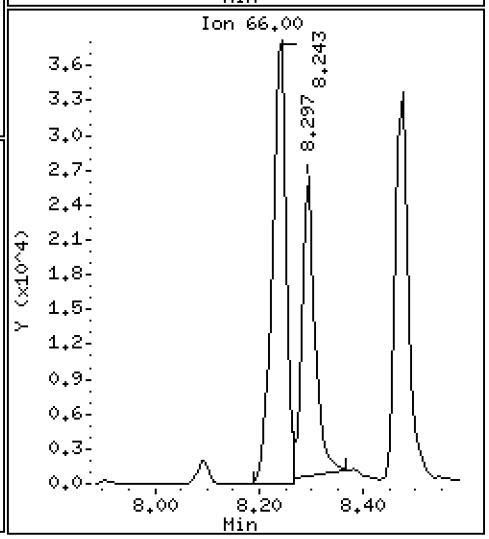












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

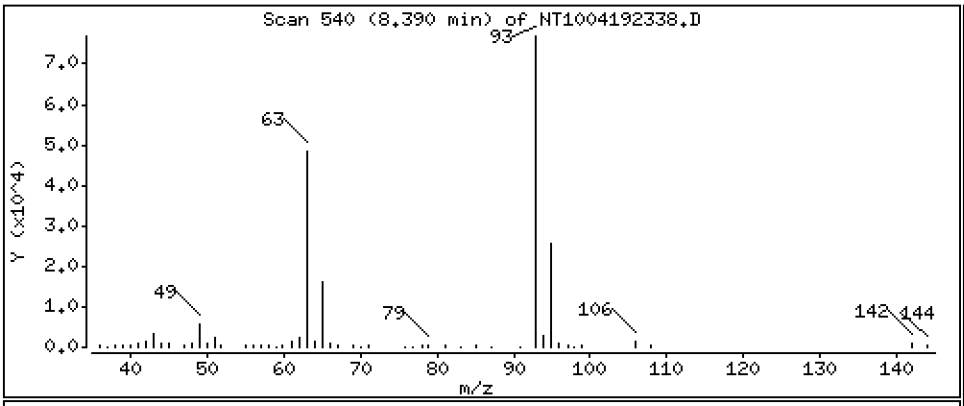
Operator: VTS

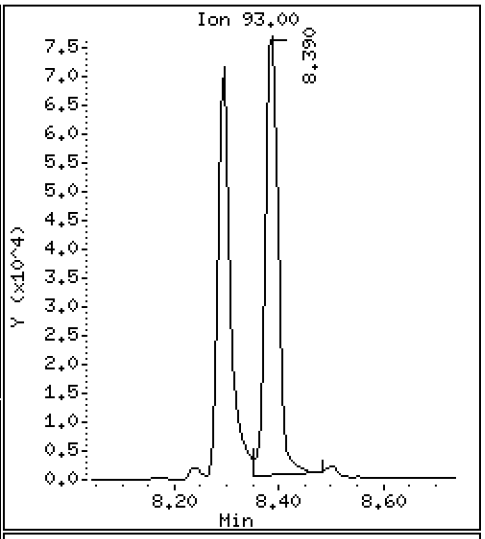
Column phase: ZB-5msi

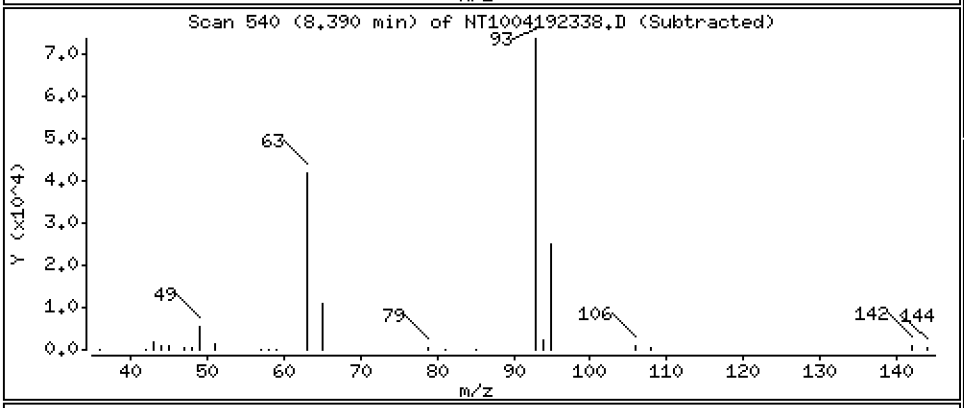
Column diameter: 0.25

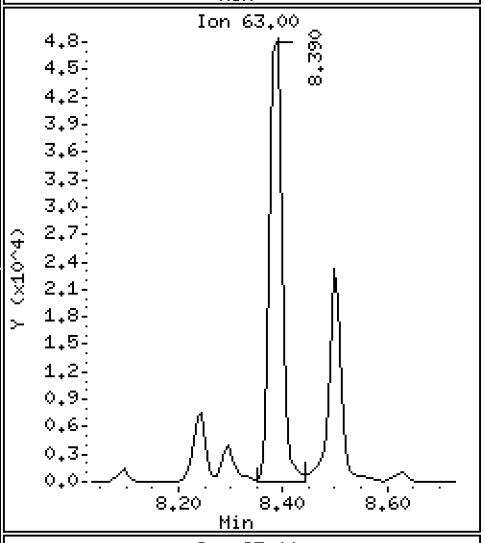
4 Bis(2-Chloroethyl)ether

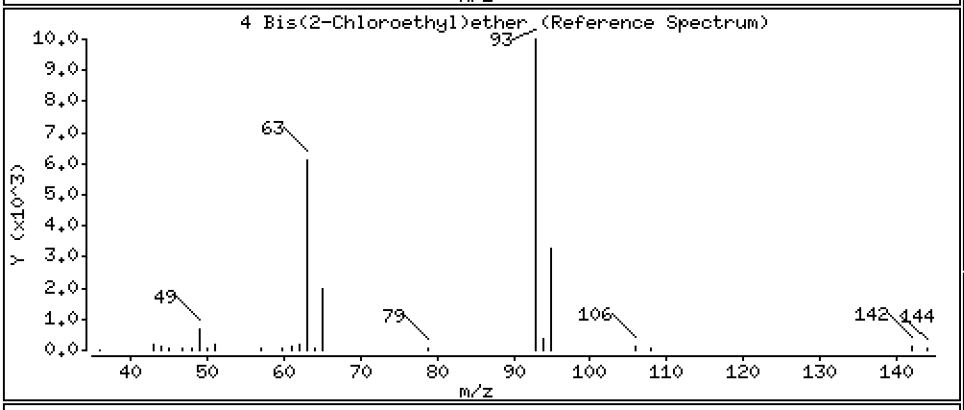
Concentration: 3.217 ug/mL

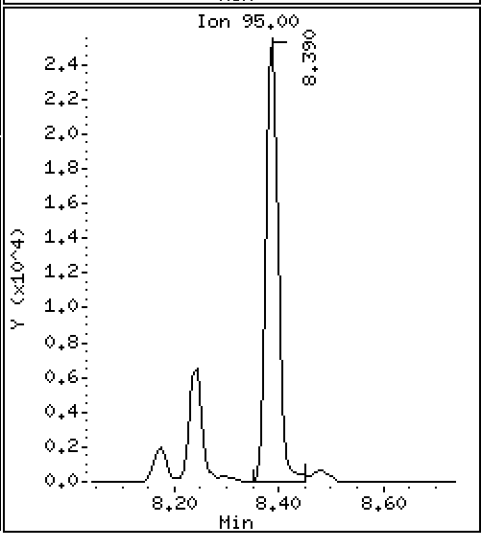


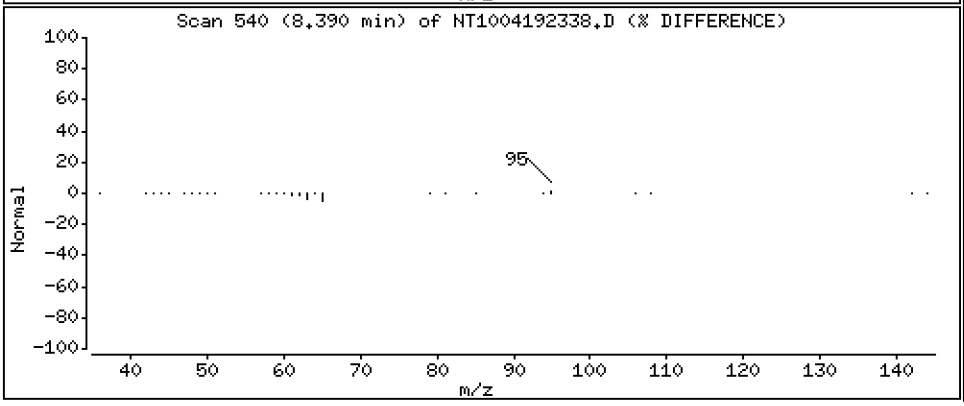












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

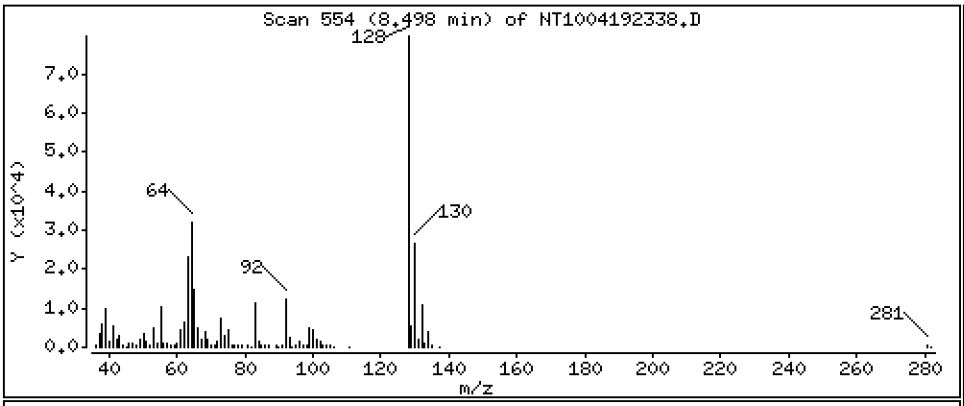
Operator: VTS

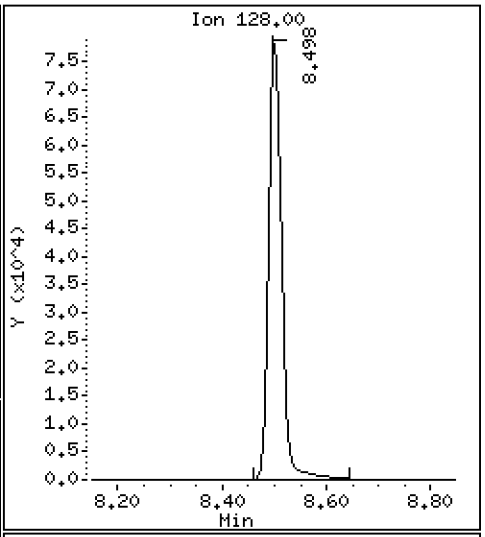
Column phase: ZB-5msi

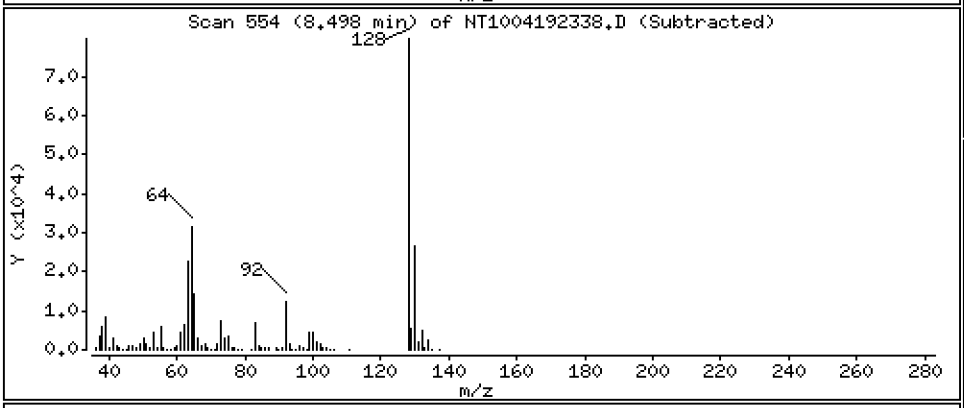
Column diameter: 0.25

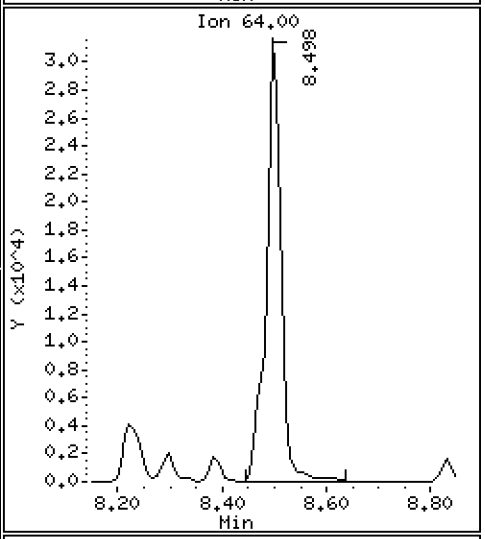
6 2-Chlorophenol

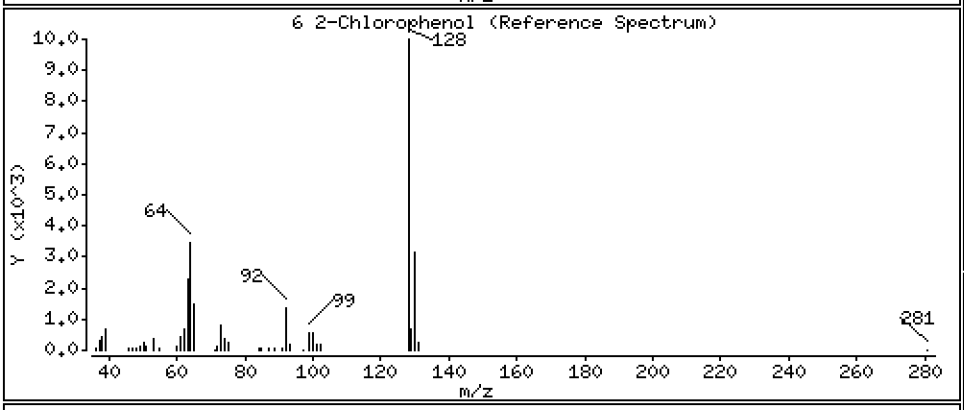
Concentration: 3.167 ug/mL

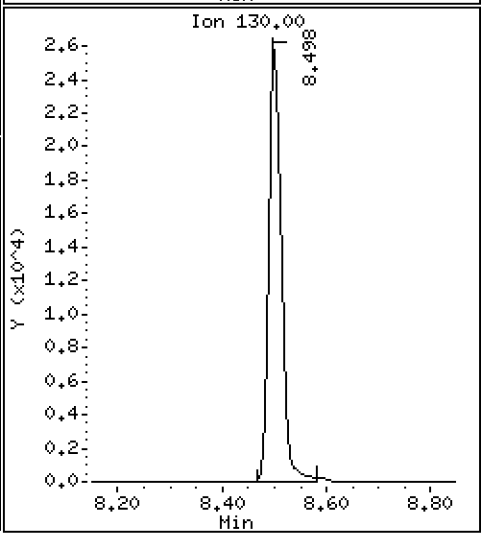


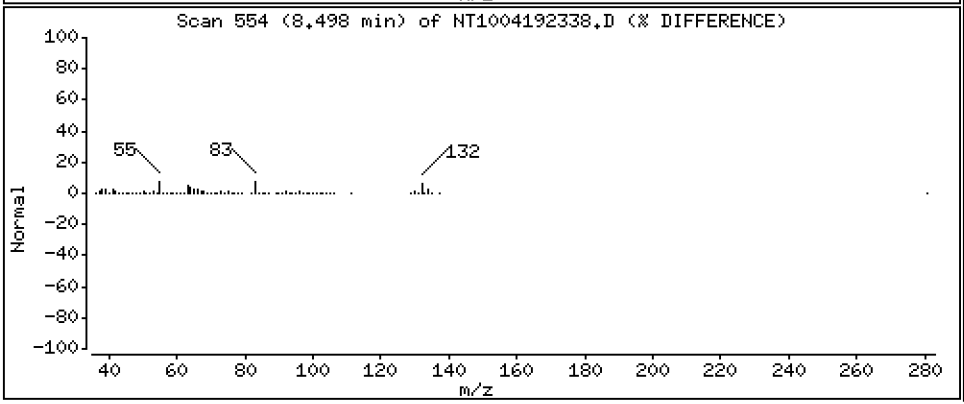












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

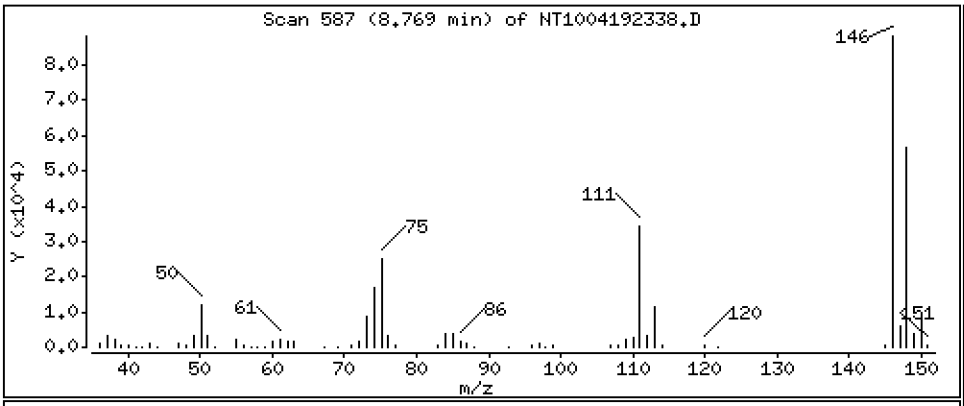
Operator: VTS

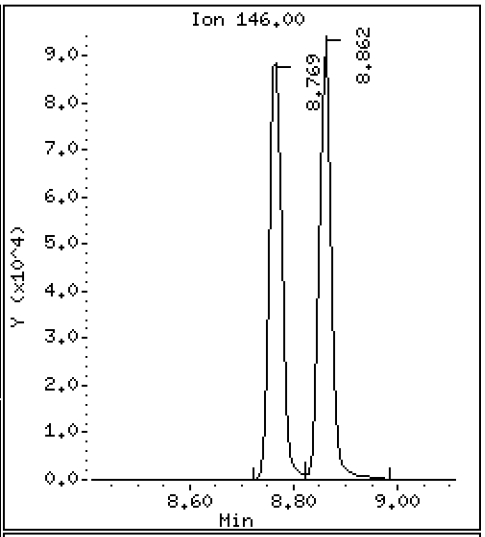
Column phase: ZB-5msi

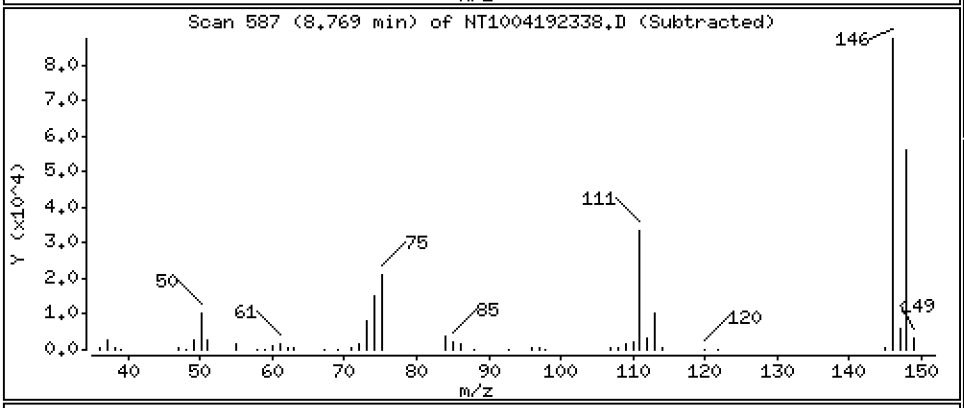
Column diameter: 0.25

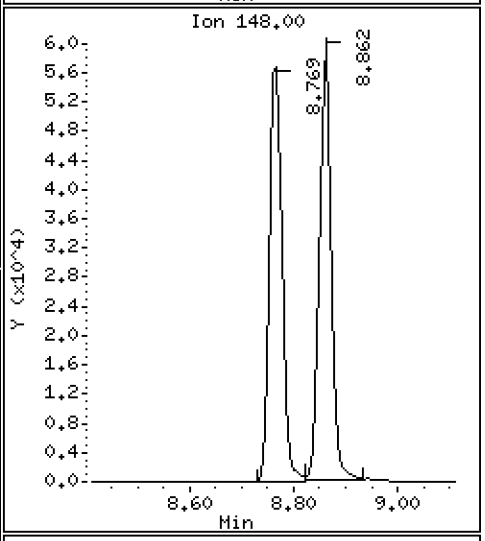
7 1,3-Dichlorobenzene

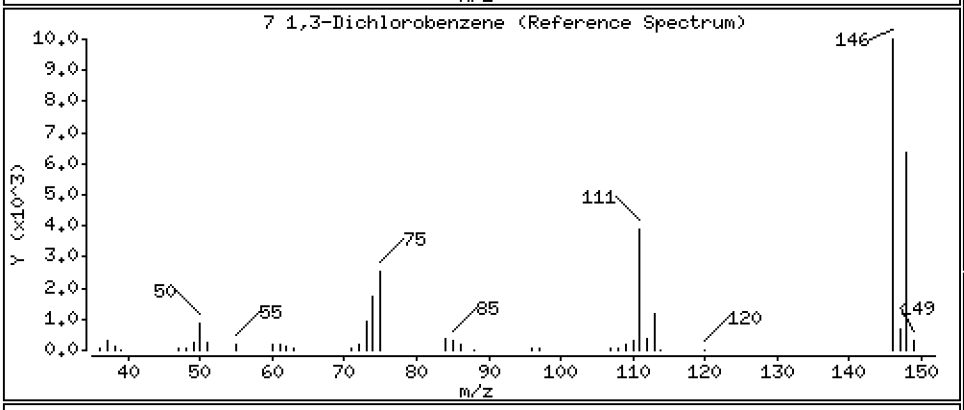
Concentration: 3.031 ug/mL

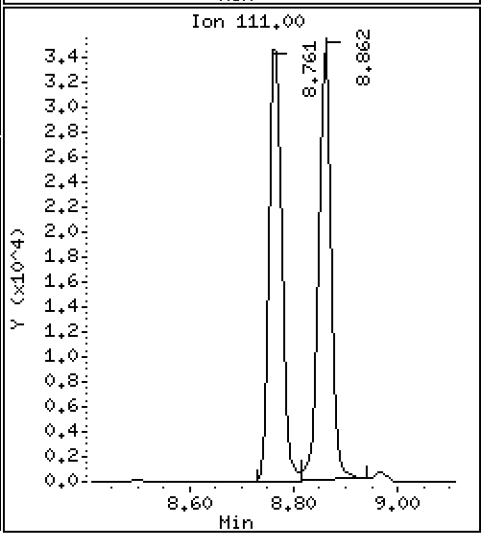


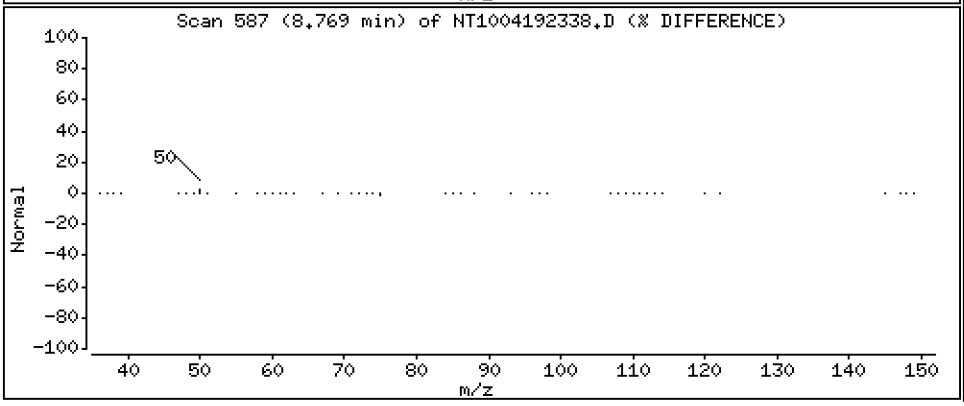












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

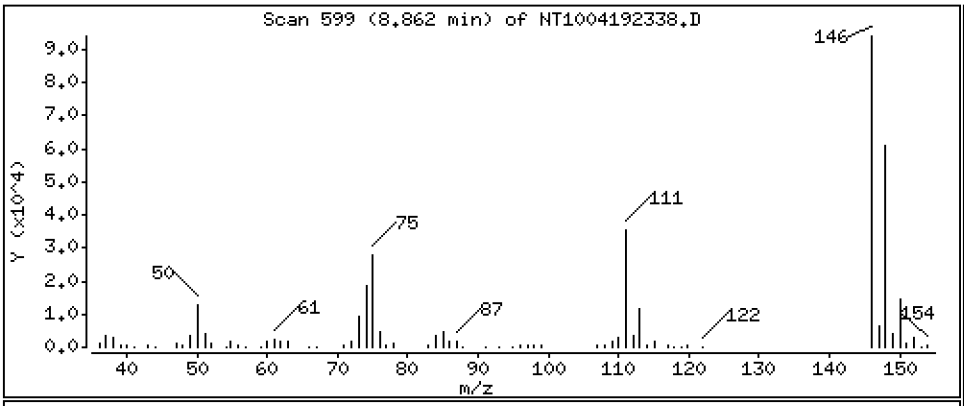
Operator: VTS

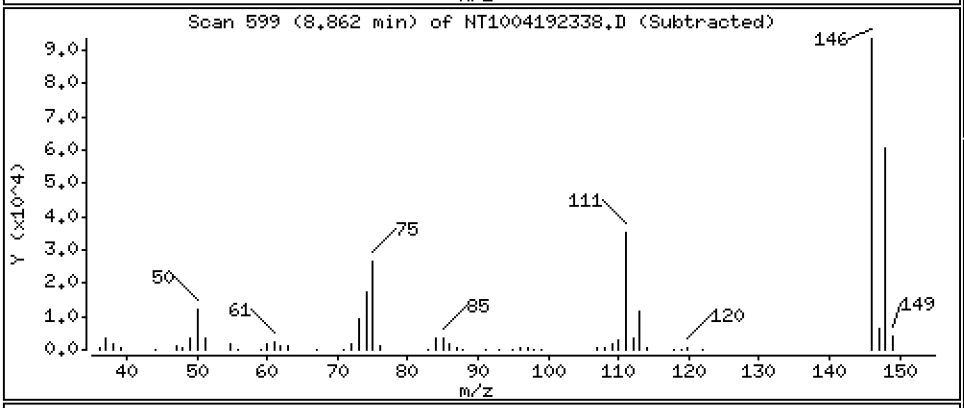
Column phase: ZB-5msi

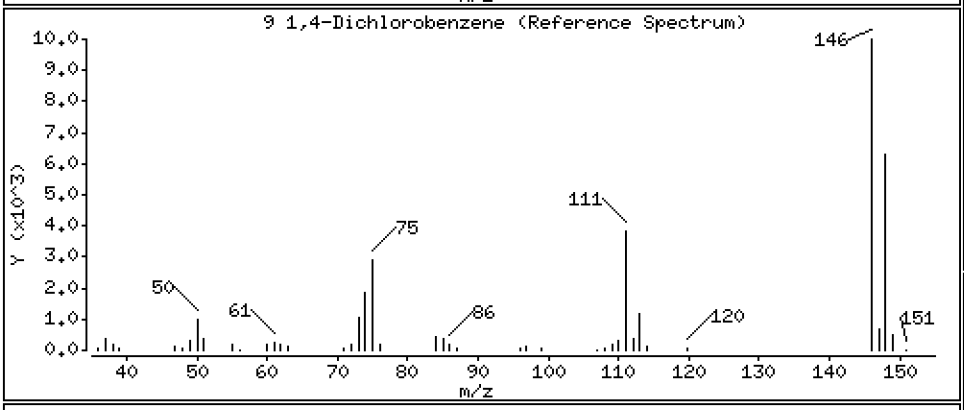
Column diameter: 0.25

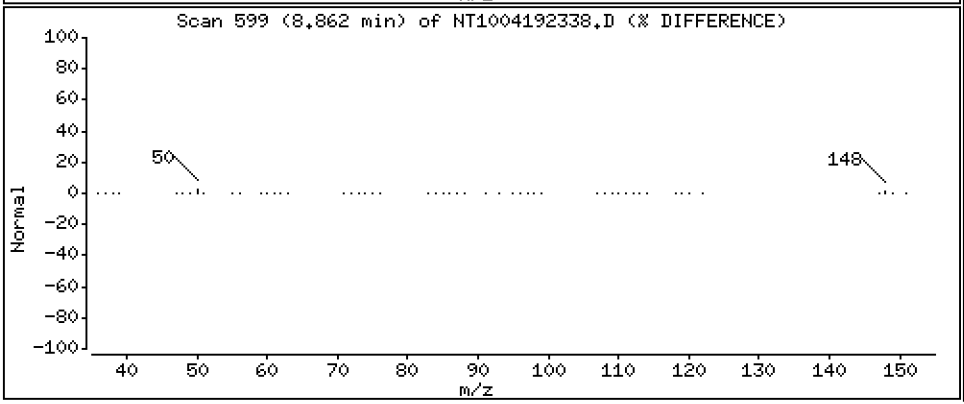
9 1,4-Dichlorobenzene

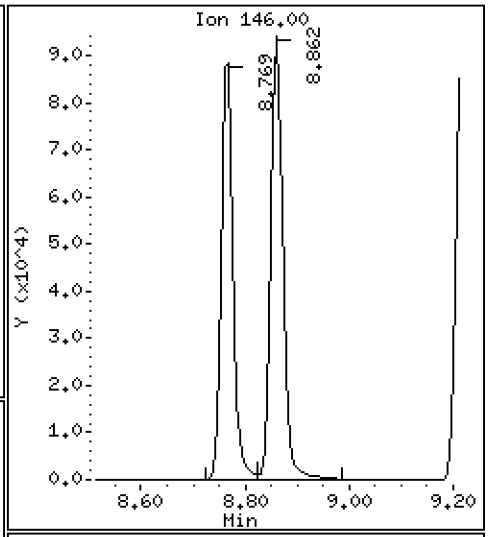
Concentration: 3.158 ug/mL

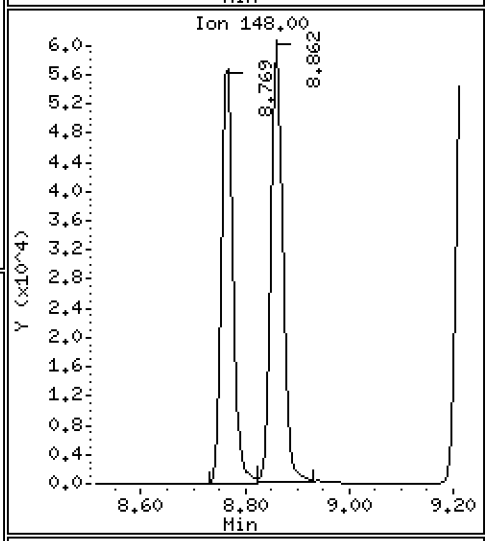


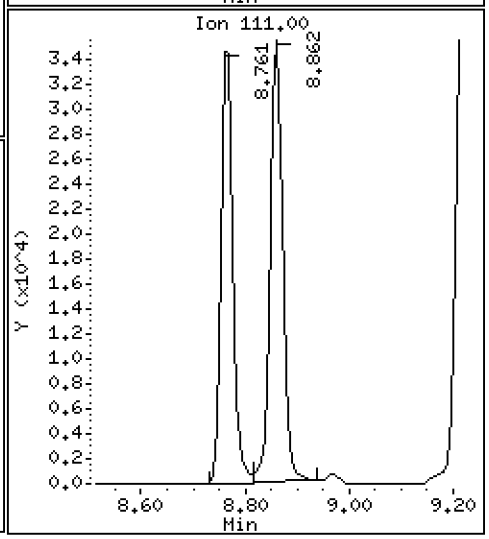












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

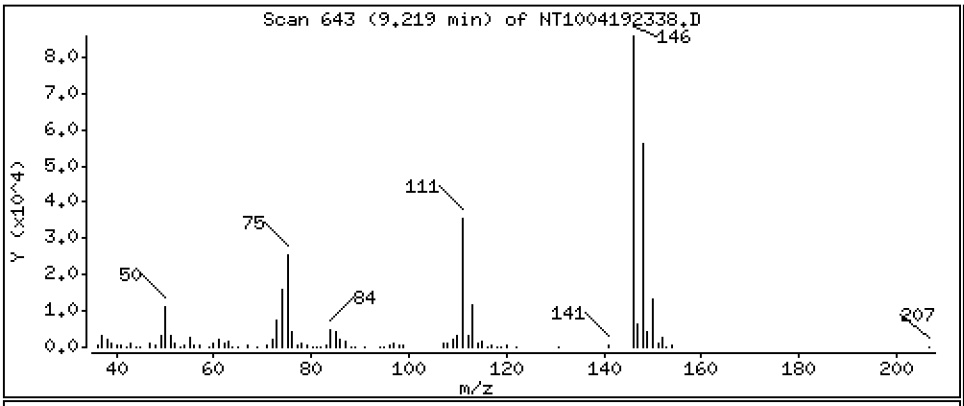
Operator: VTS

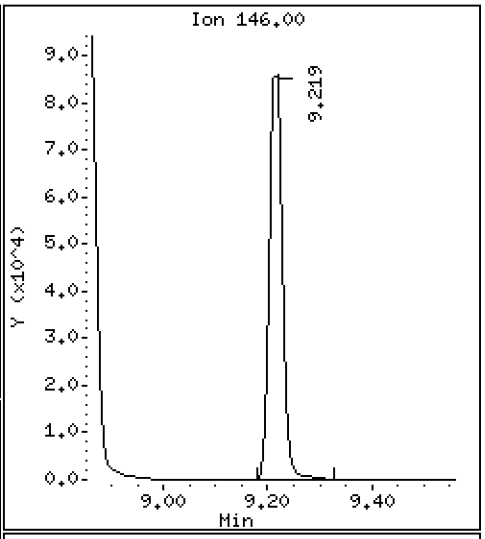
Column phase: ZB-5msi

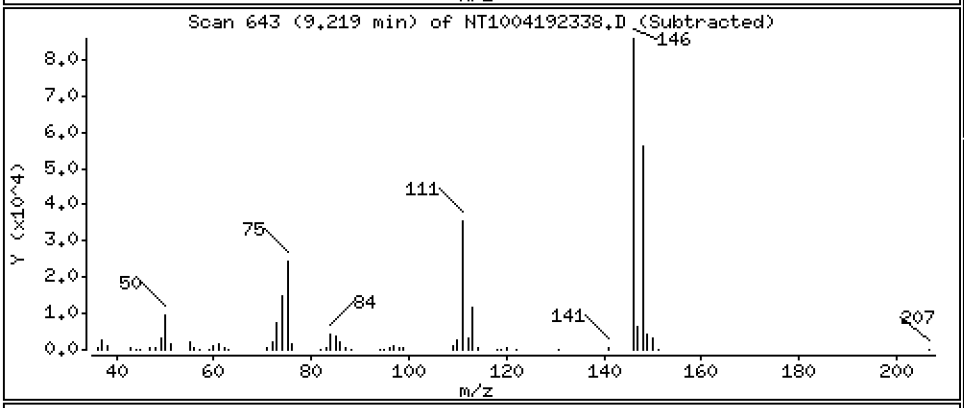
Column diameter: 0.25

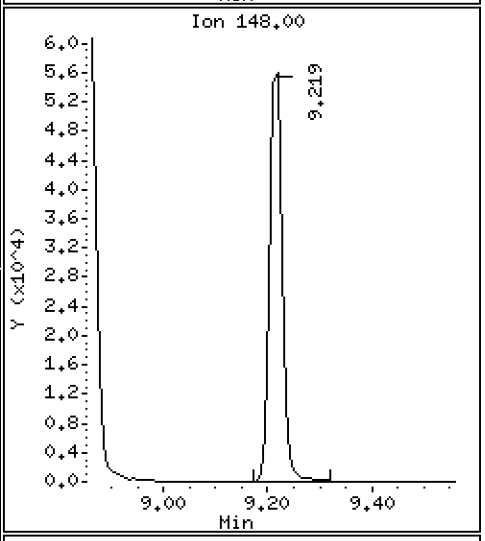
12 1,2-Dichlorobenzene

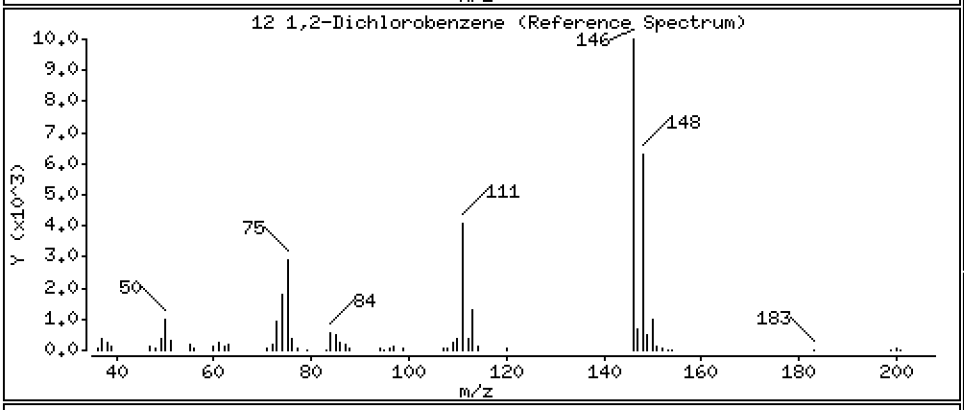
Concentration: 3.118 ug/mL

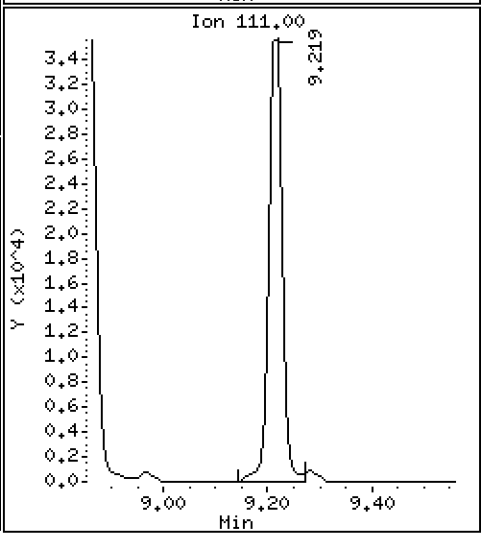


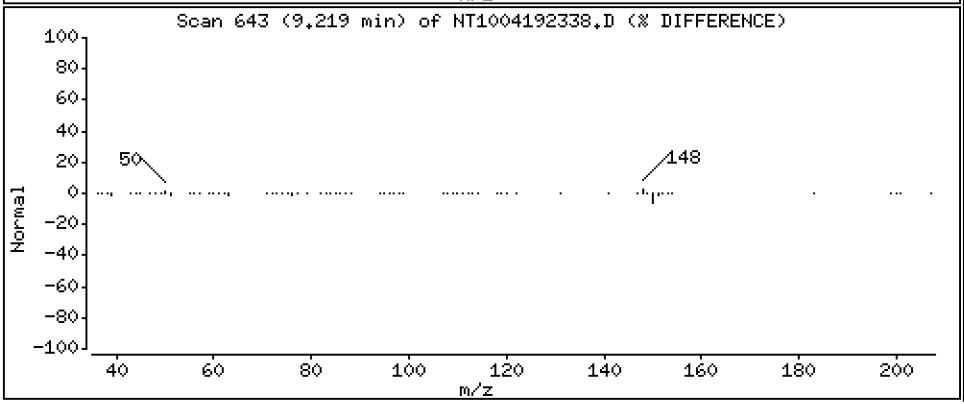












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

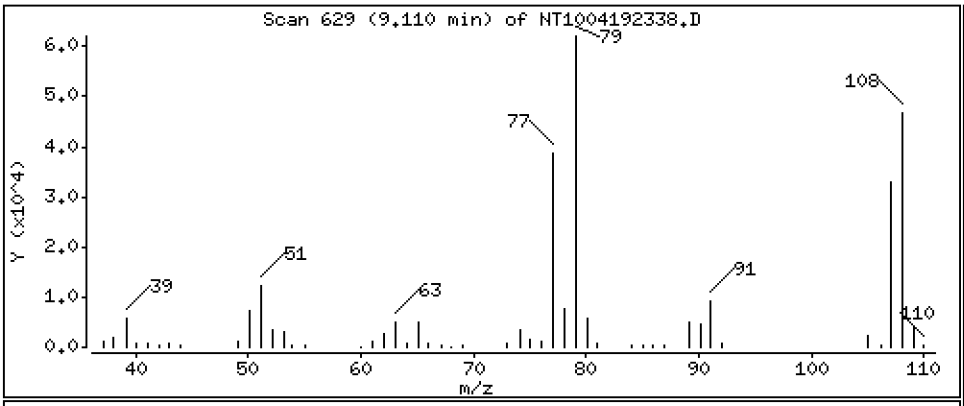
Operator: VTS

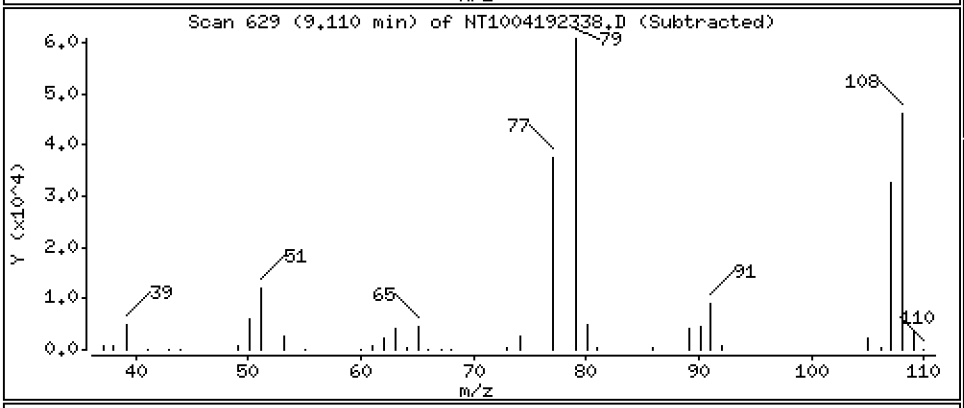
Column phase: ZB-5msi

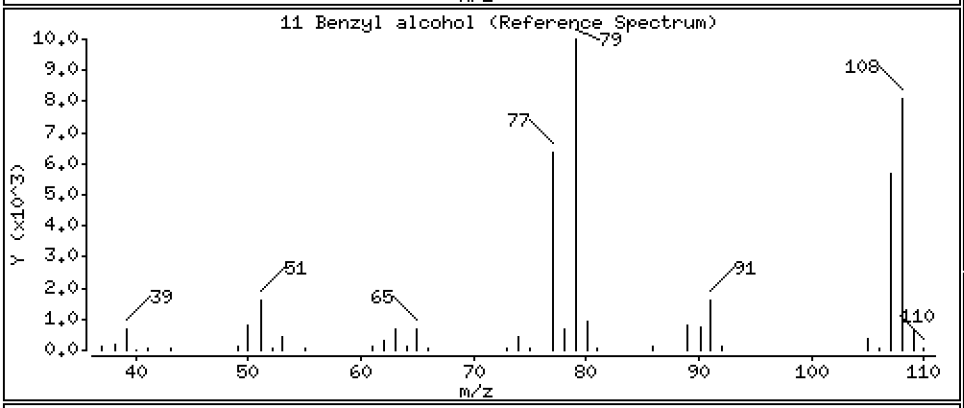
Column diameter: 0.25

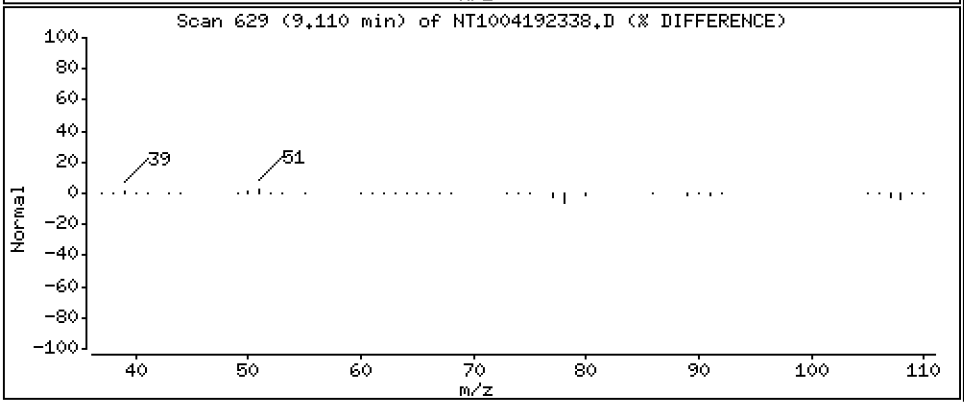
11 Benzyl alcohol

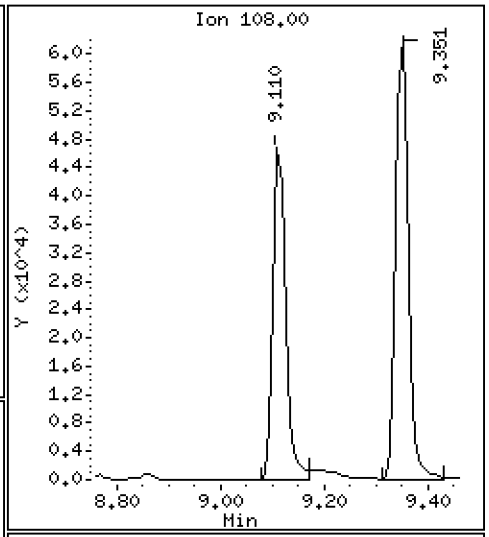
Concentration: 3.087 ug/mL

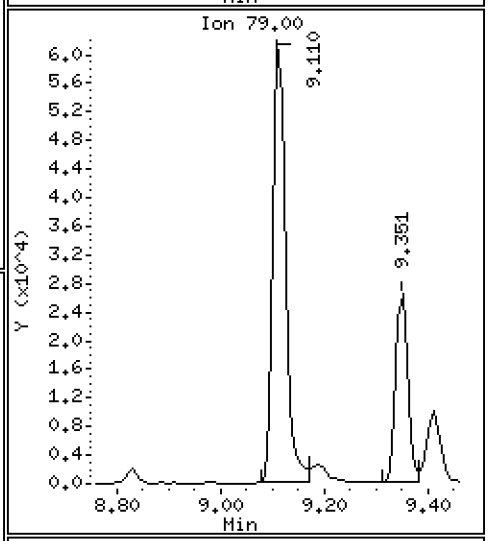


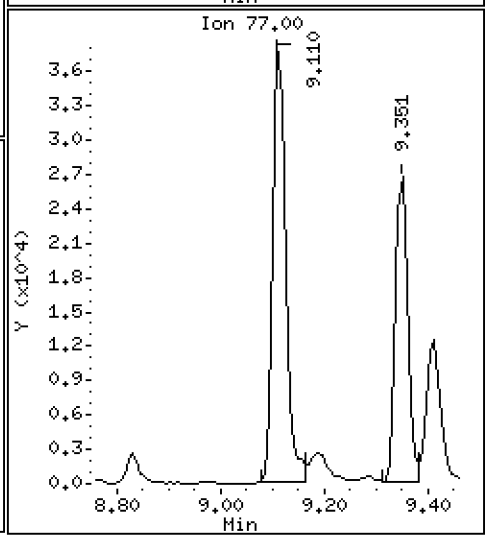












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

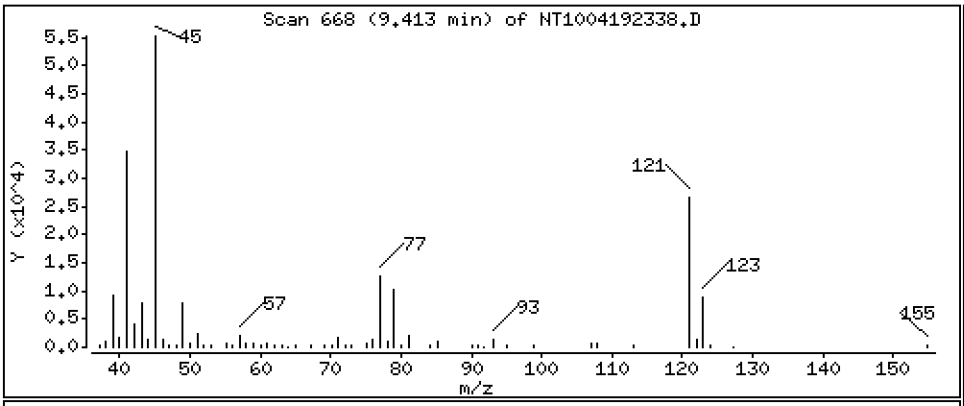
Operator: VTS

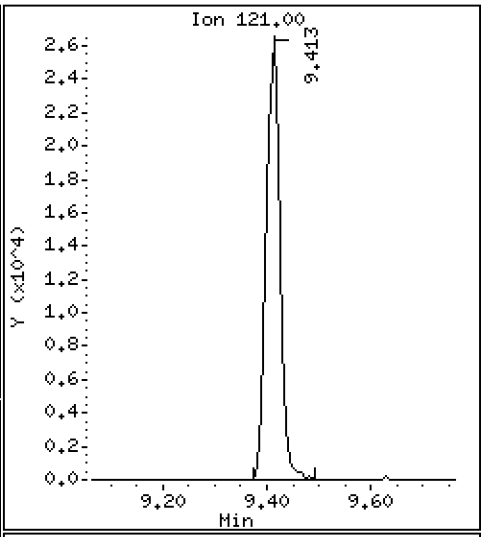
Column phase: ZB-5msi

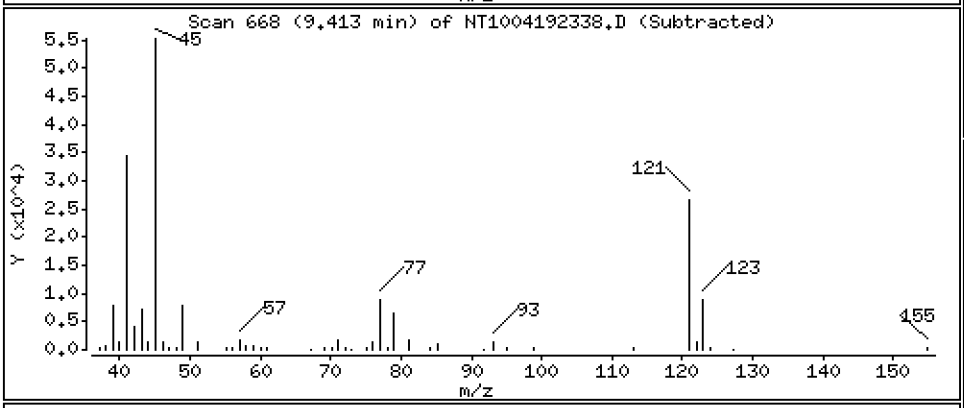
Column diameter: 0.25

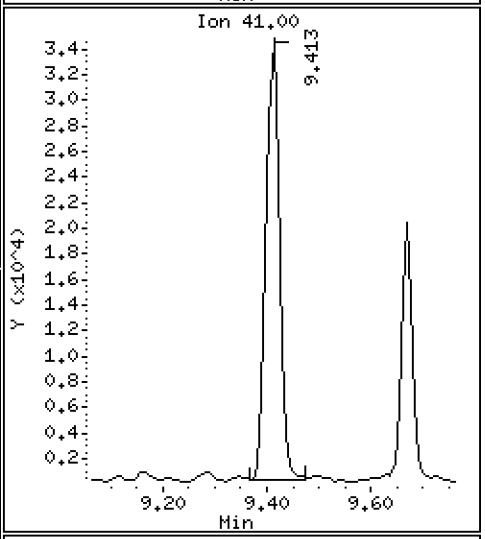
14 2,2'-oxybis(1-Chloropropane)

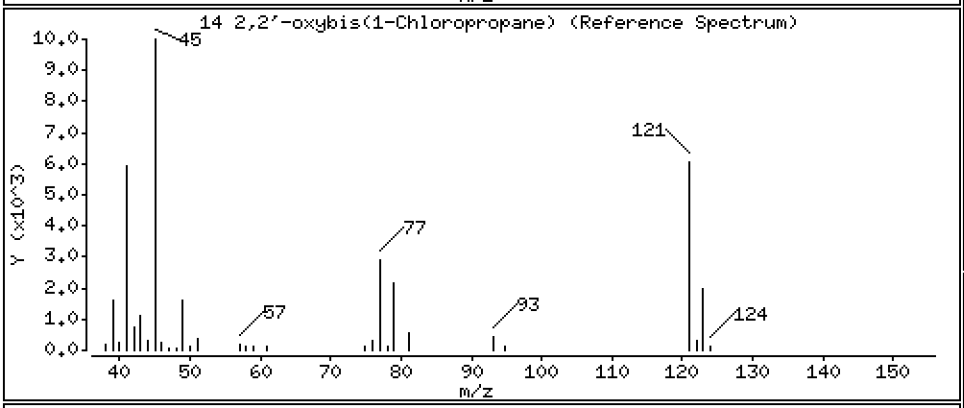
Concentration: 3.482 ug/mL

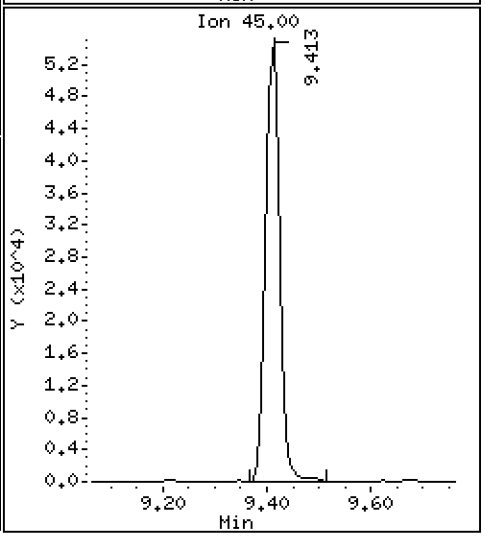


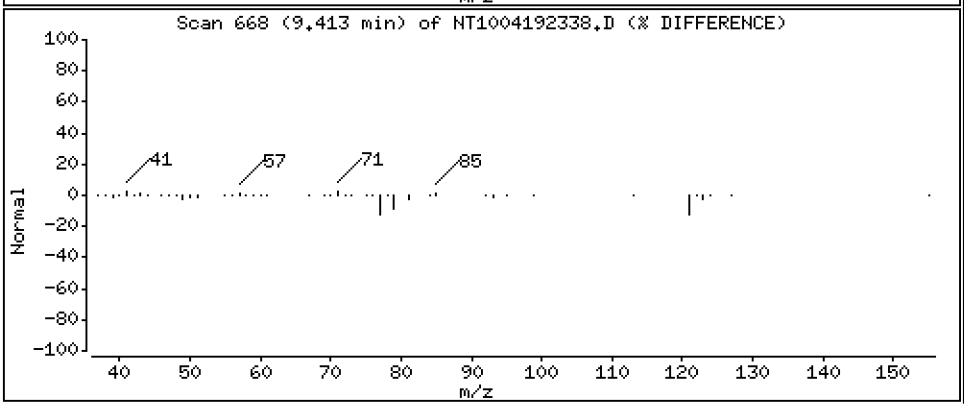












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

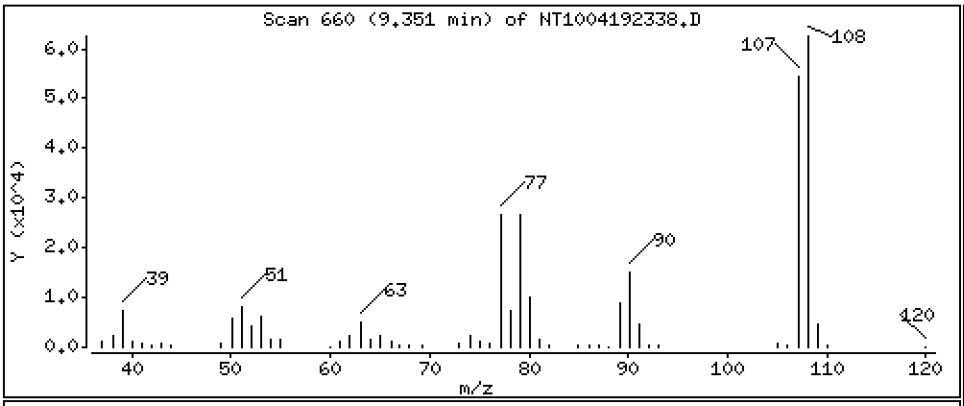
Operator: VTS

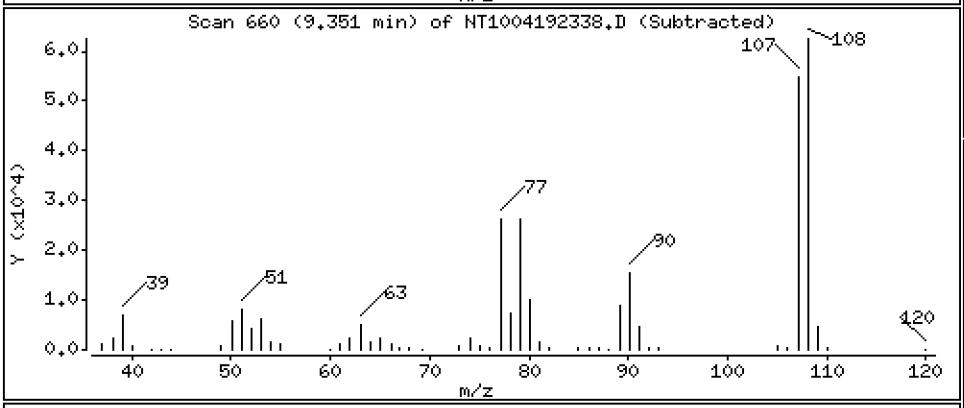
Column phase: ZB-5msi

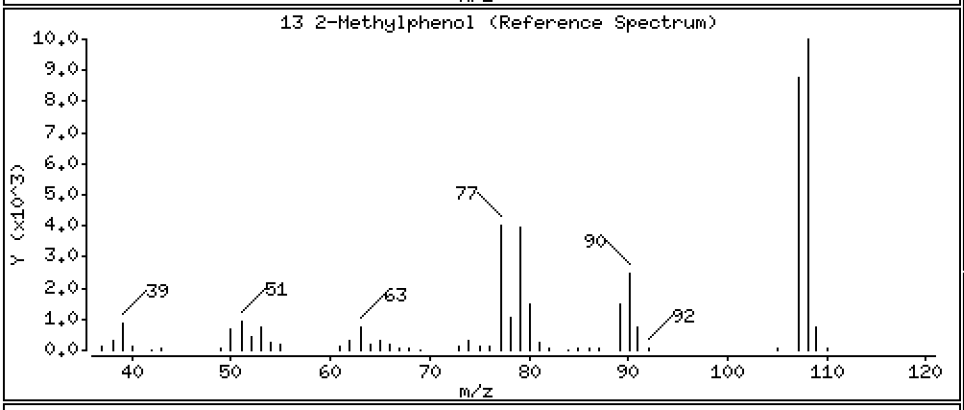
Column diameter: 0.25

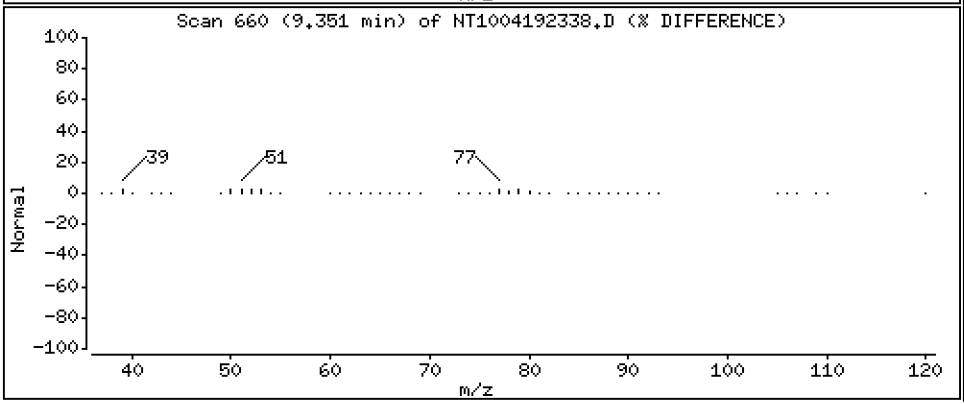
13 2-Methylphenol

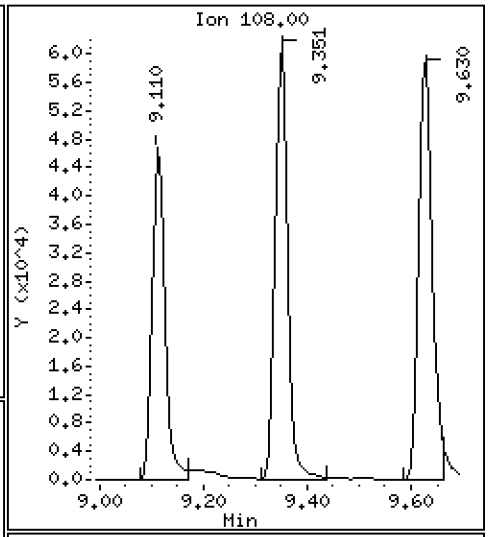
Concentration: 2.610 ug/mL

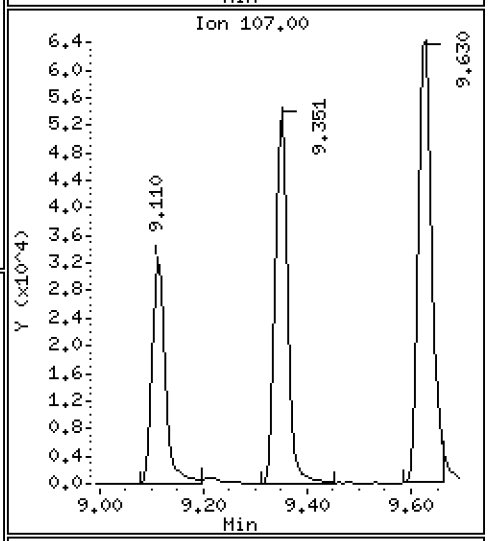


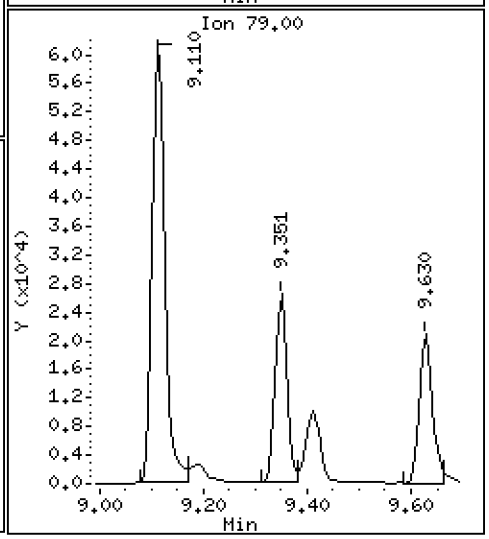












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

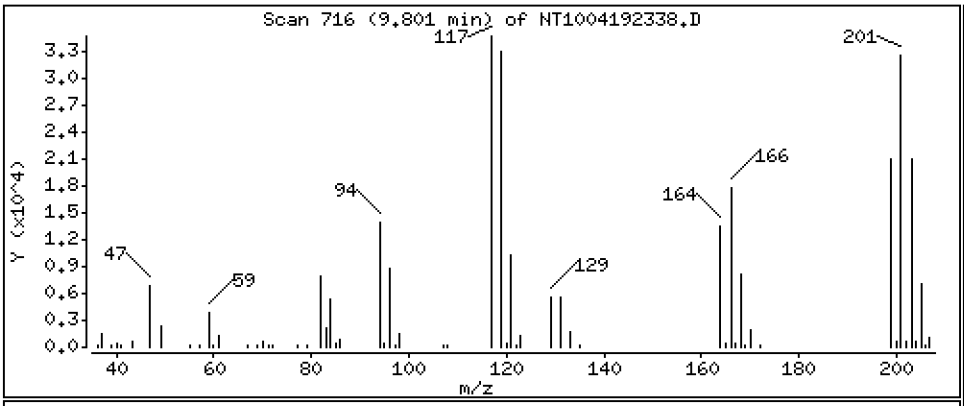
Operator: VTS

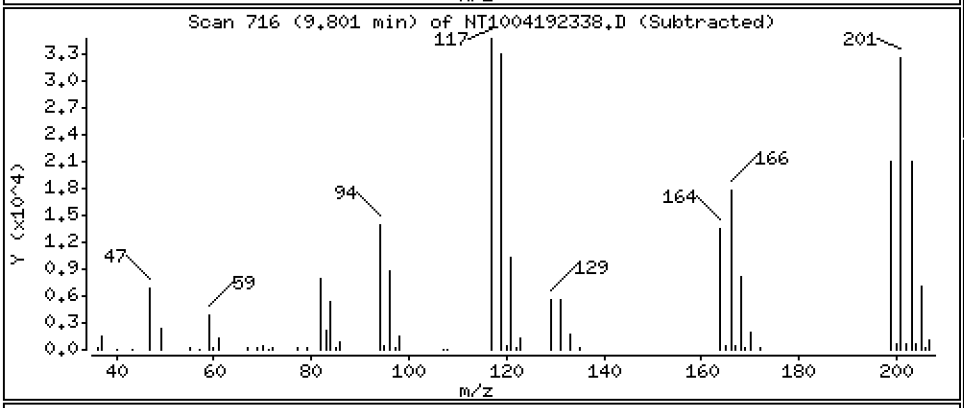
Column phase: ZB-5msi

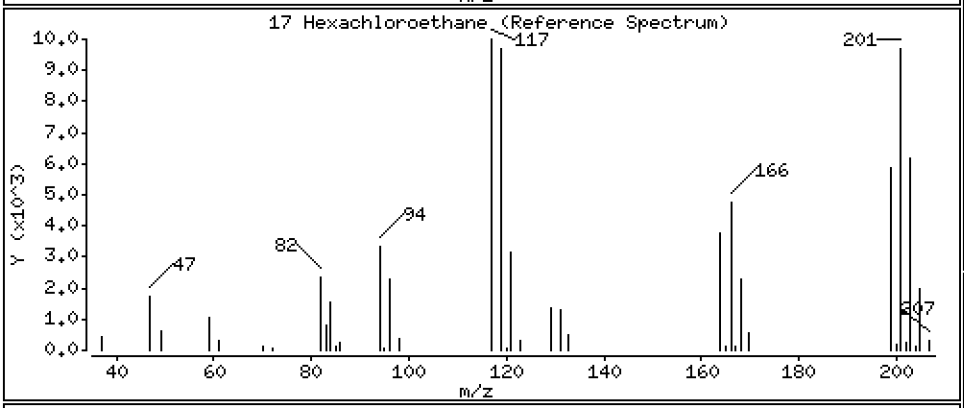
Column diameter: 0.25

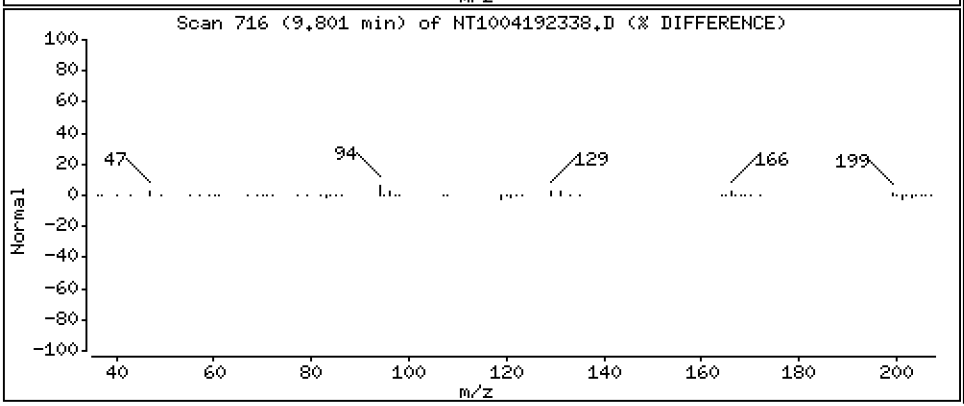
17 Hexachloroethane

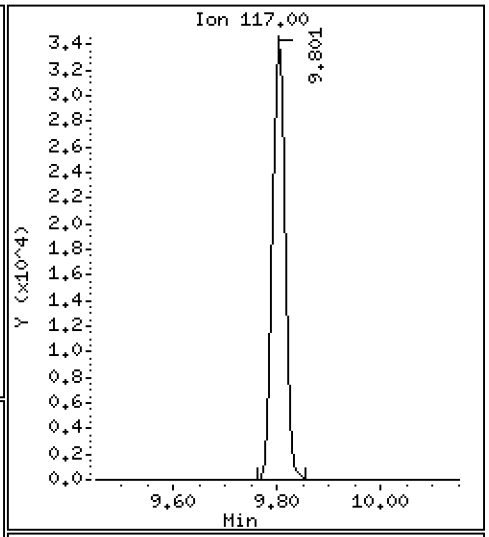
Concentration: 2.934 ug/mL

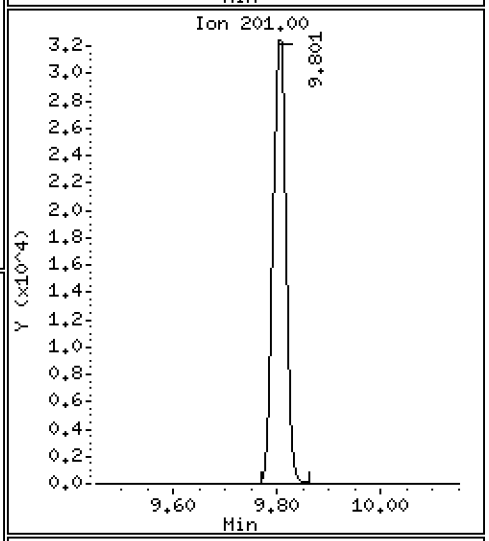


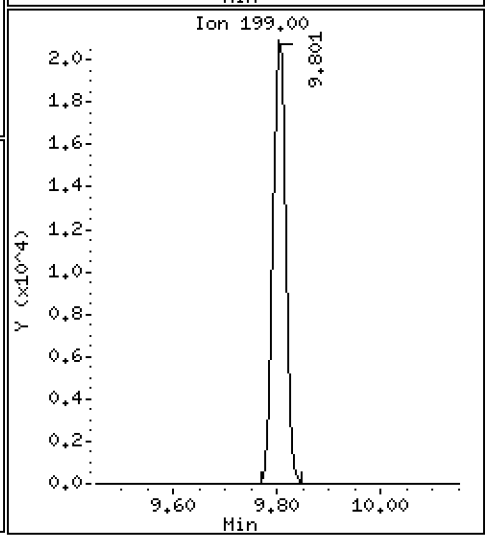












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

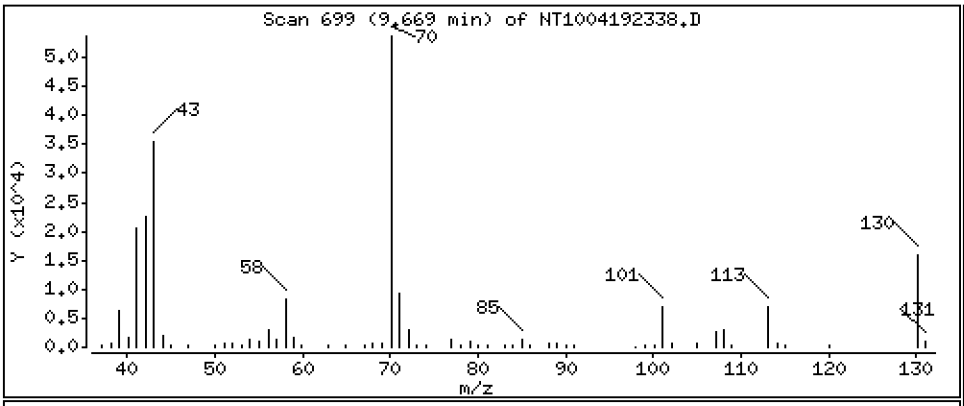
Operator: VTS

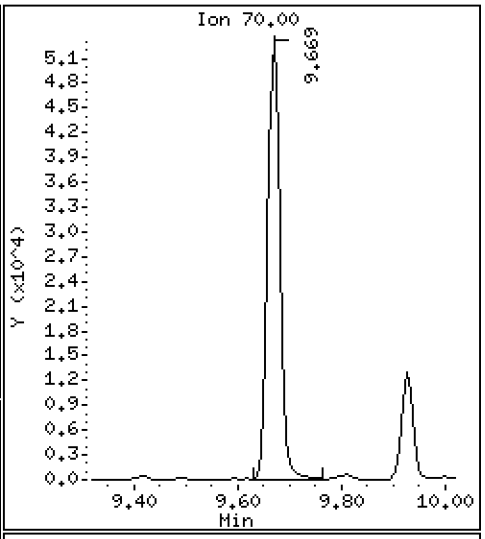
Column phase: ZB-5msi

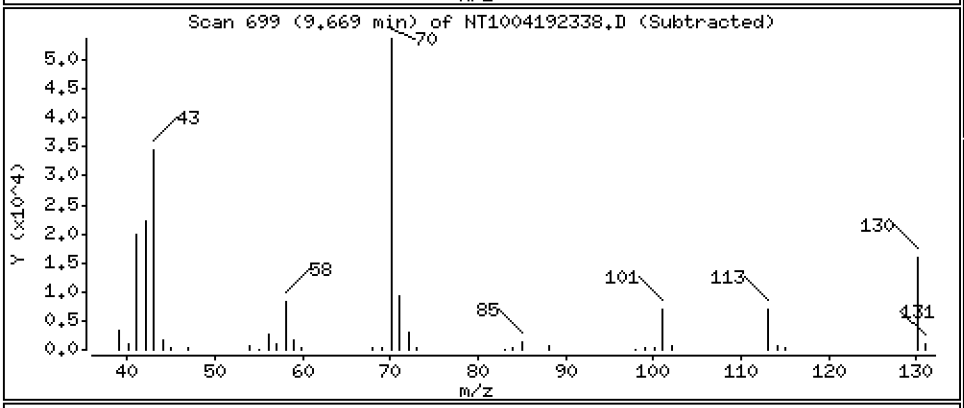
Column diameter: 0.25

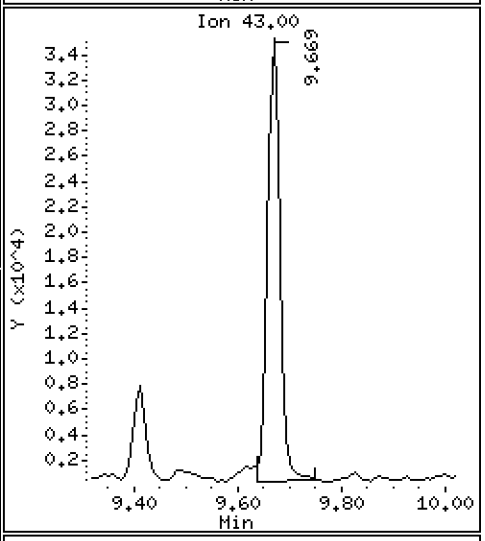
16 N-Nitroso-di-n-propylamine

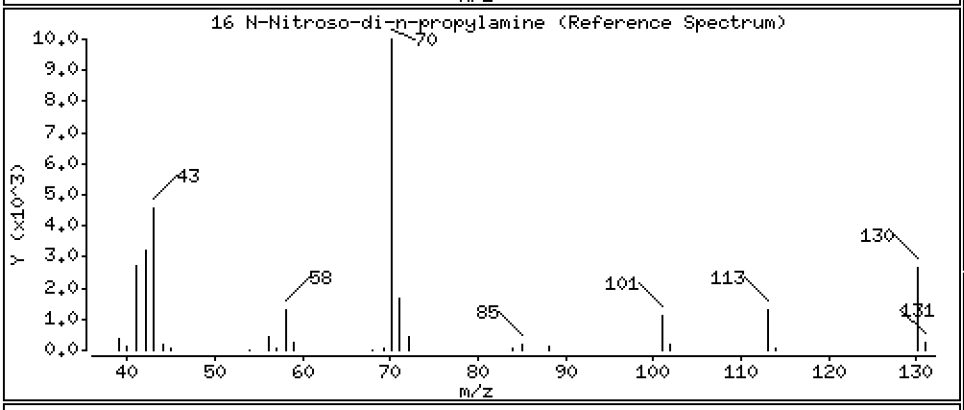
Concentration: 2.780 ug/mL

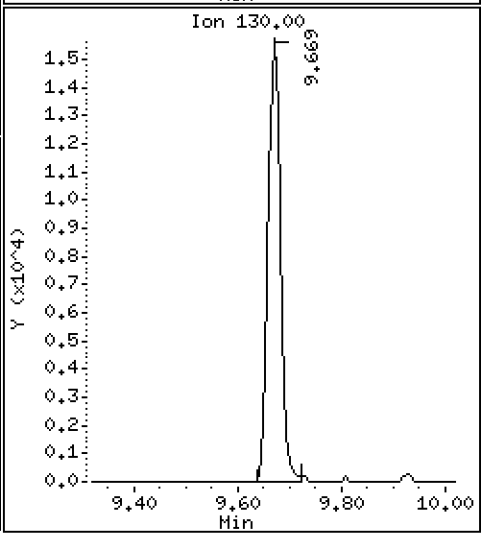


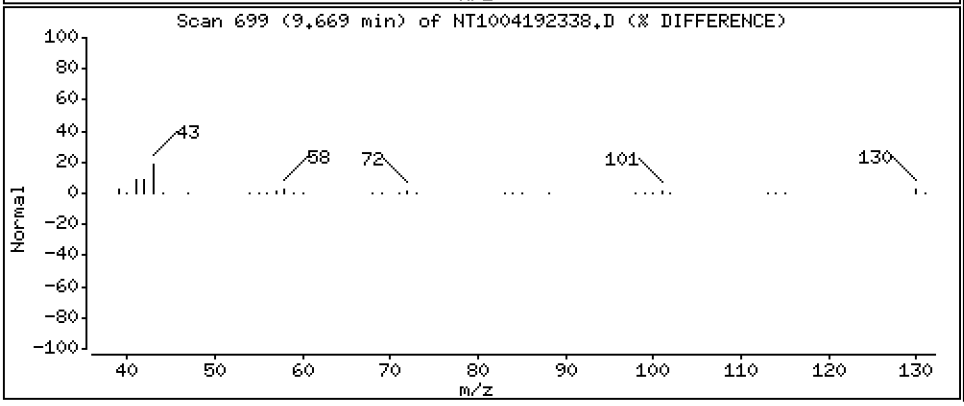












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

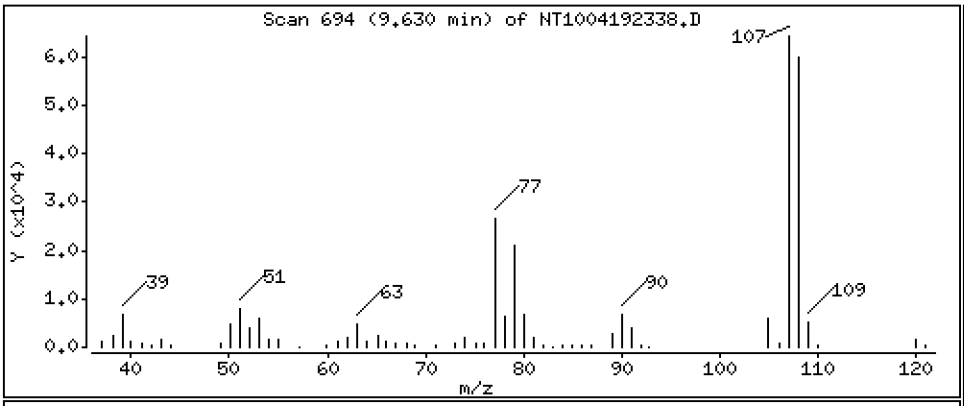
Operator: VTS

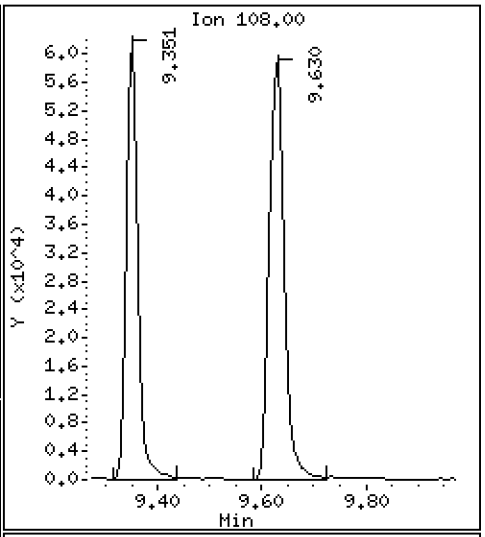
Column phase: ZB-5msi

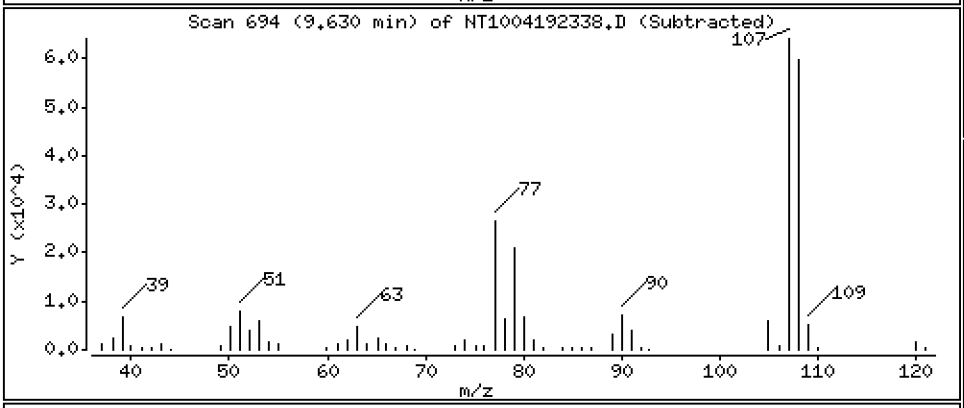
Column diameter: 0.25

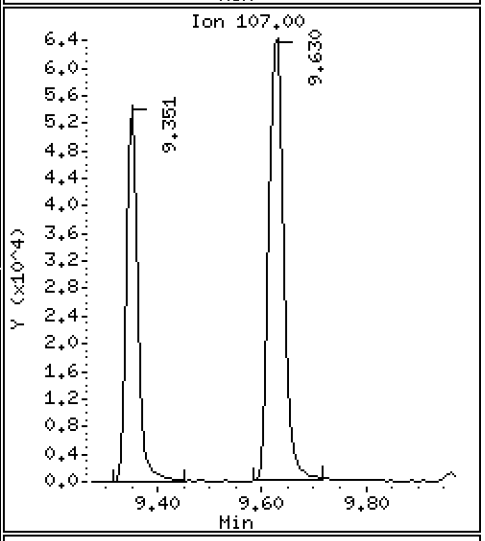
15 4-Methylphenol

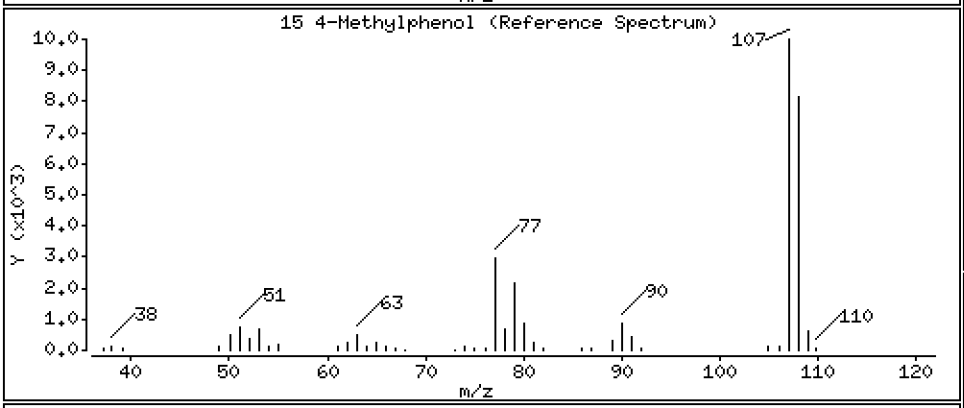
Concentration: 2.866 ug/mL

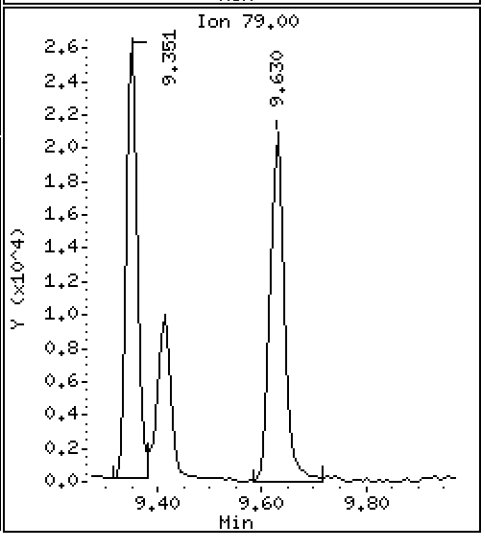


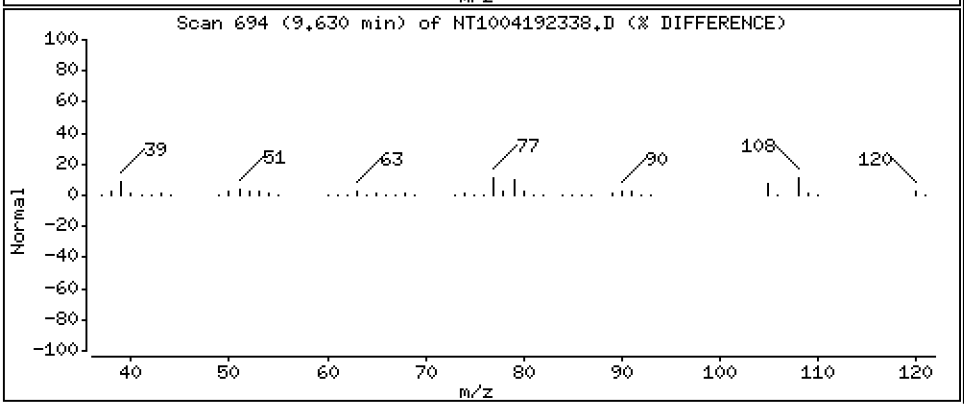












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

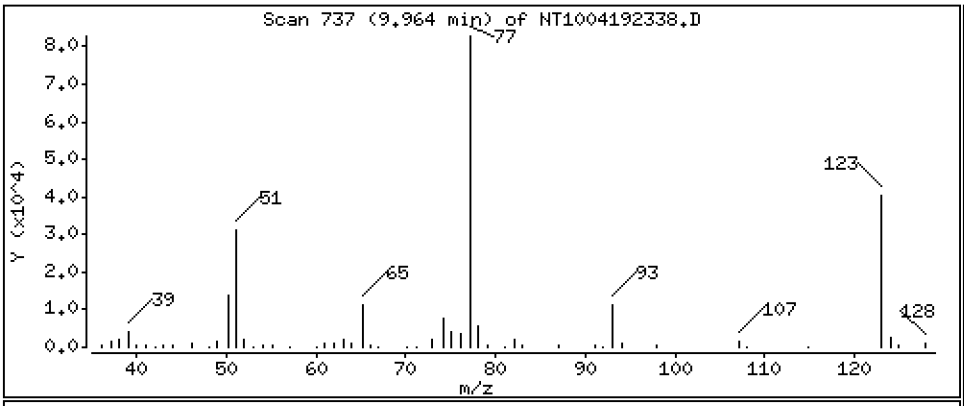
Operator: VTS

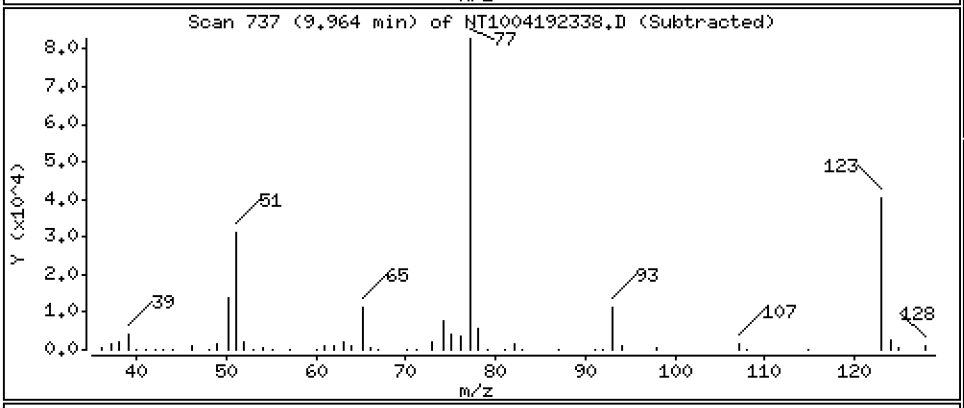
Column phase: ZB-5msi

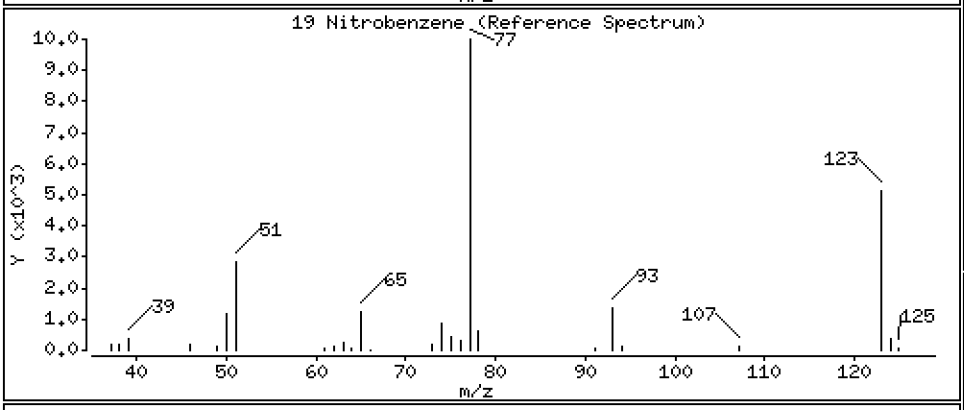
Column diameter: 0.25

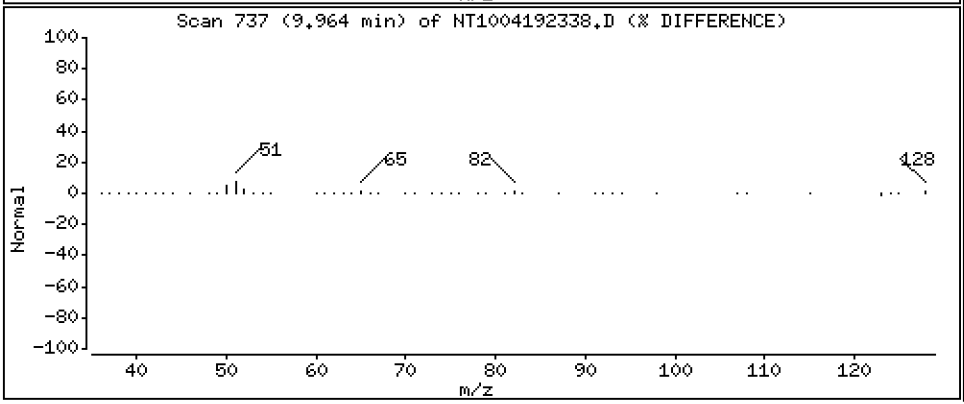
19 Nitrobenzene

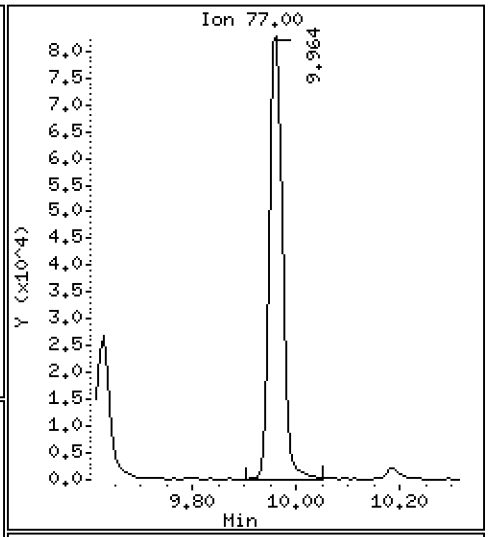
Concentration: 2.953 ug/mL

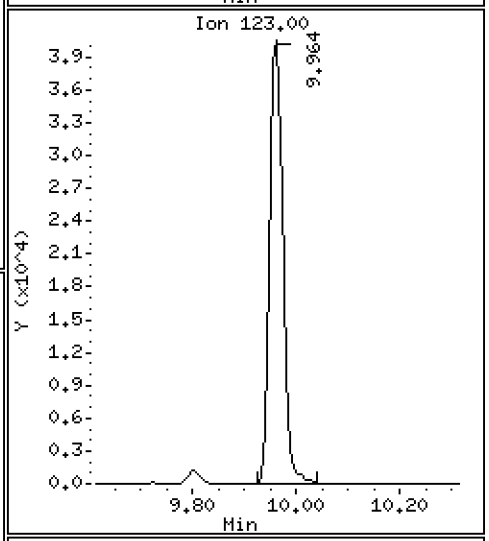


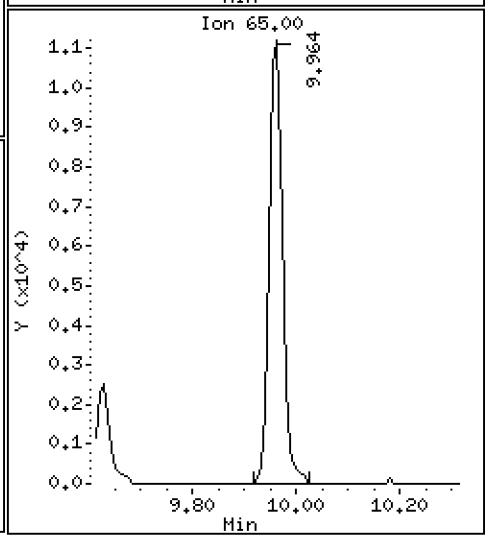












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

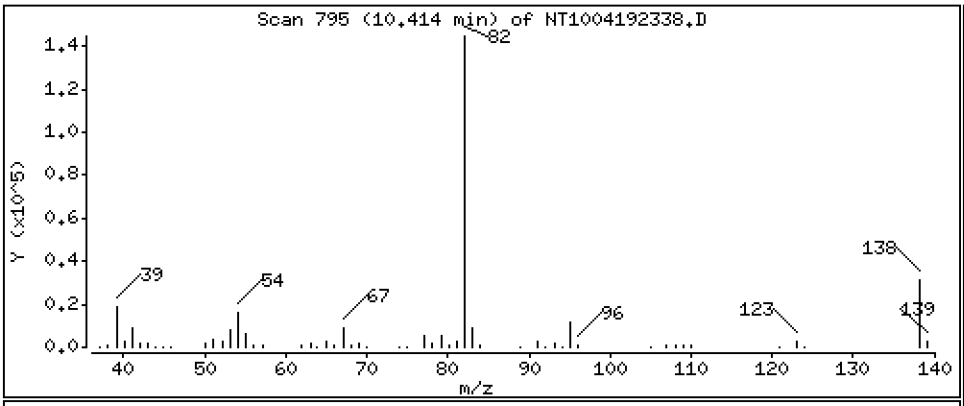
Operator: VTS

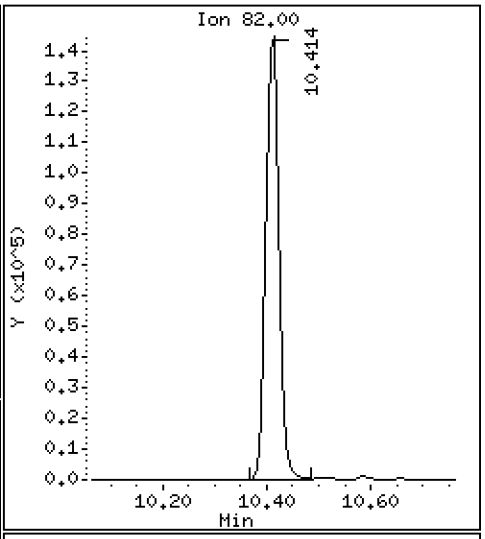
Column phase: ZB-5msi

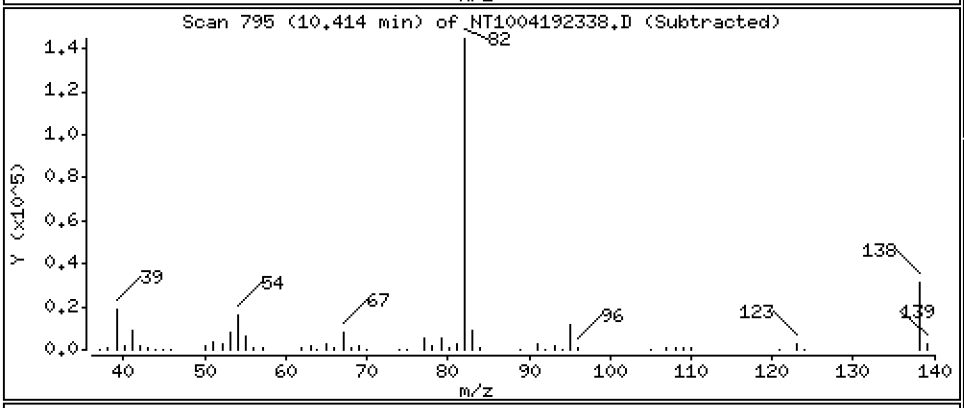
Column diameter: 0.25

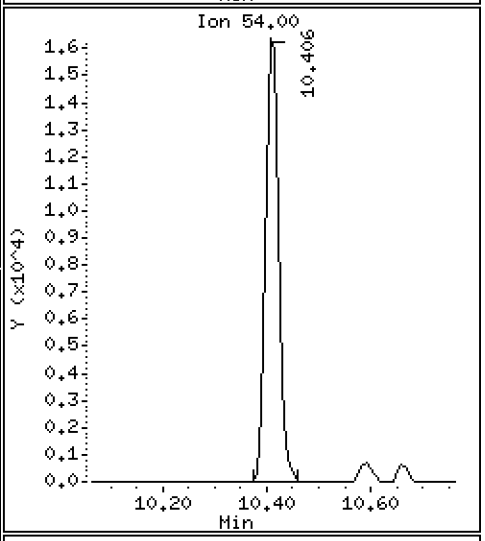
20 Isophorone

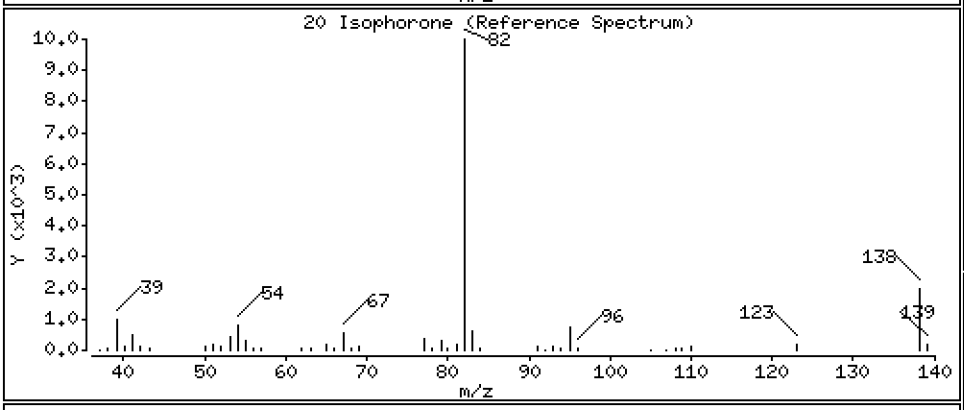
Concentration: 4.032 ug/mL

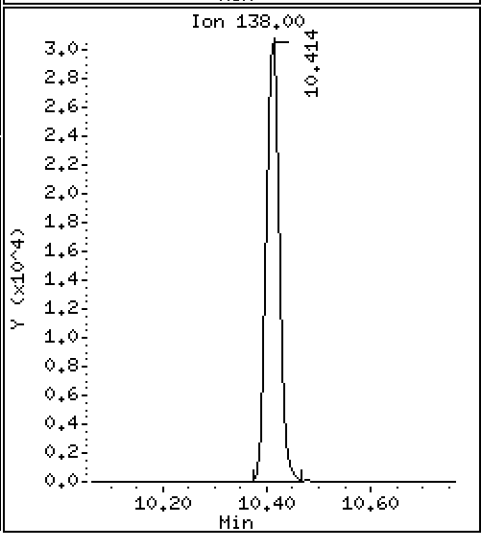


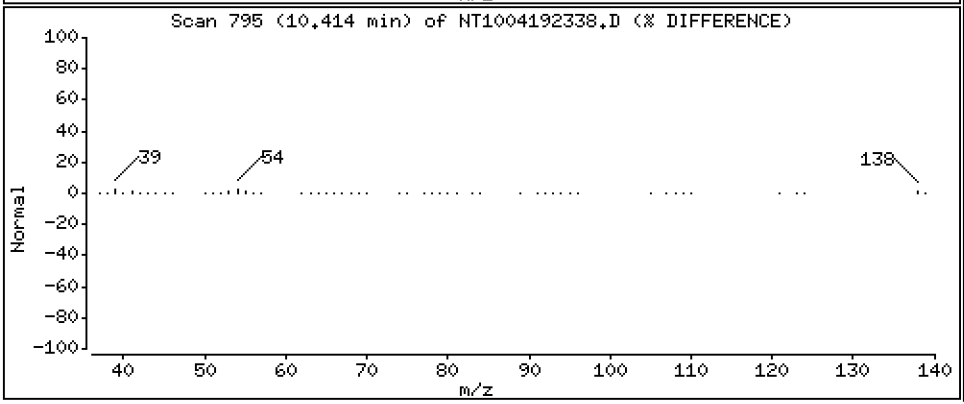












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

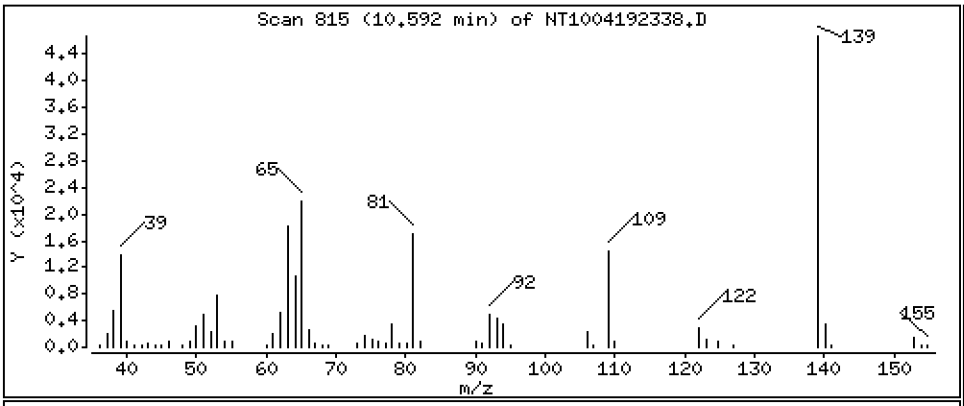
Operator: VTS

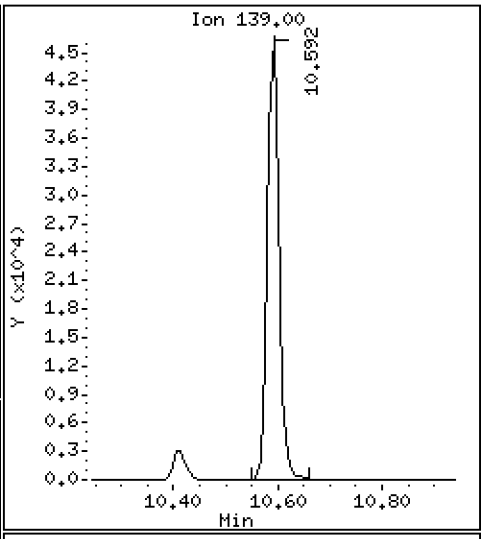
Column phase: ZB-5msi

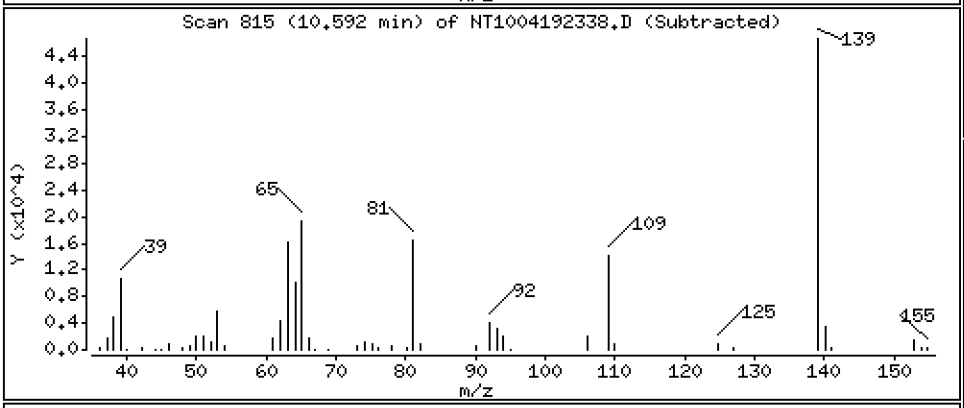
Column diameter: 0.25

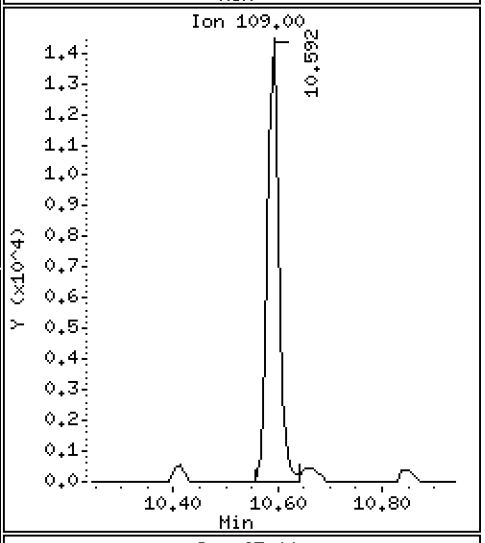
21 2-Nitrophenol

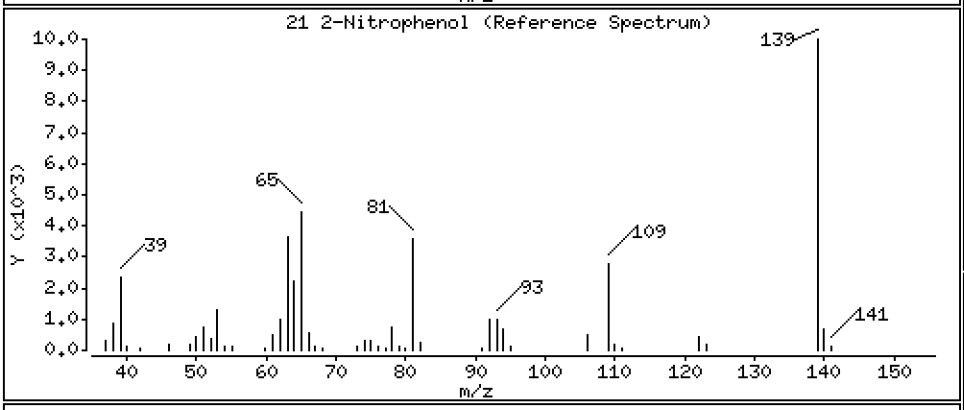
Concentration: 3.112 ug/mL

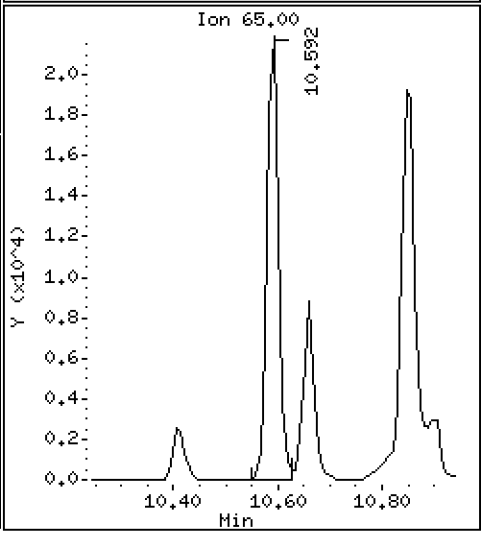


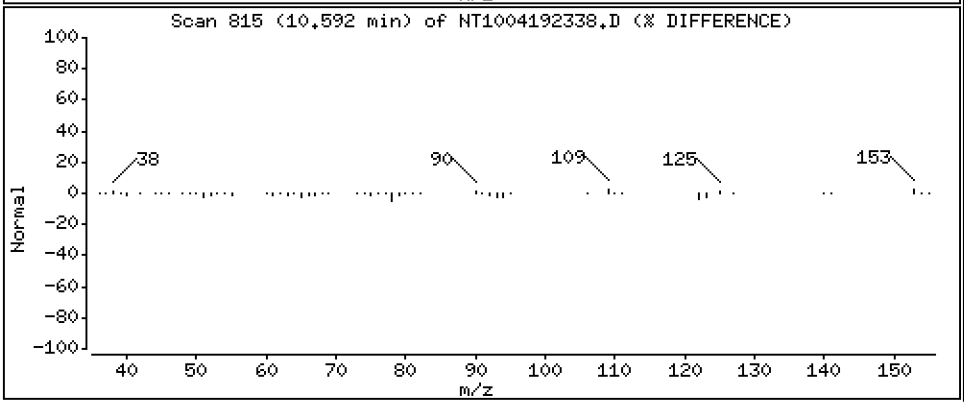












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

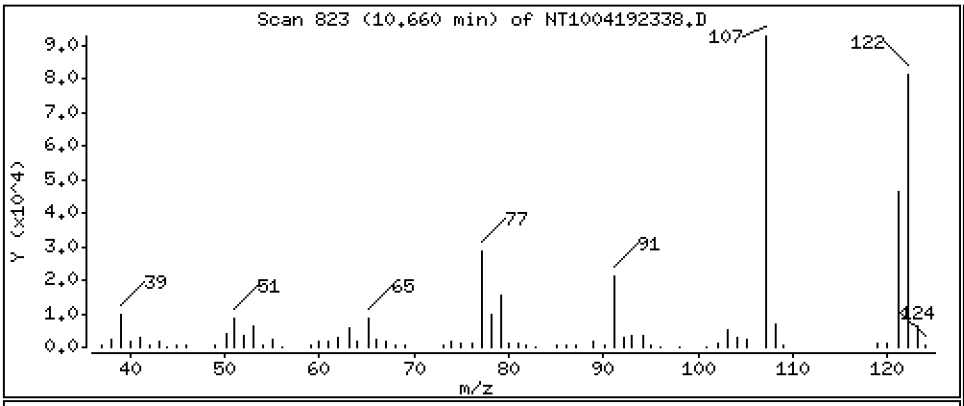
Operator: VTS

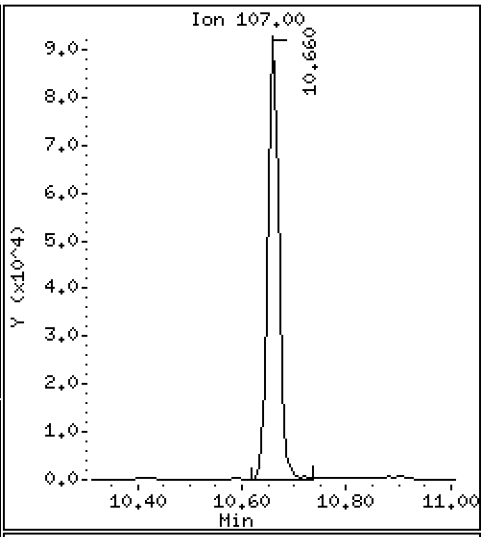
Column phase: ZB-5msi

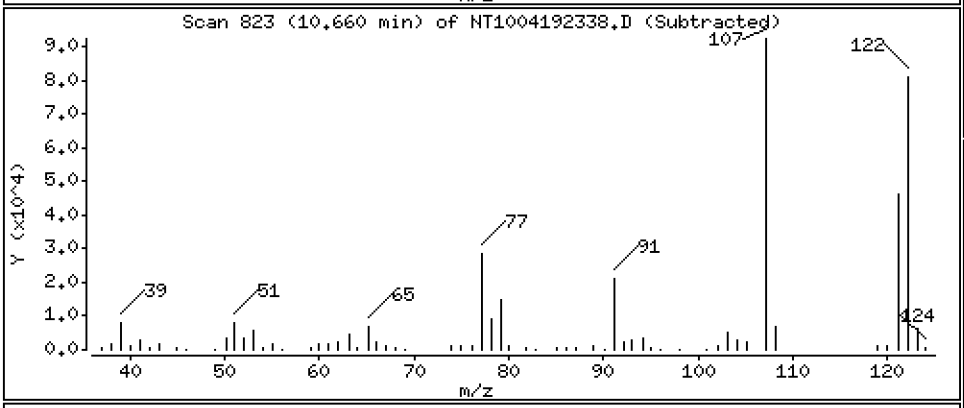
Column diameter: 0.25

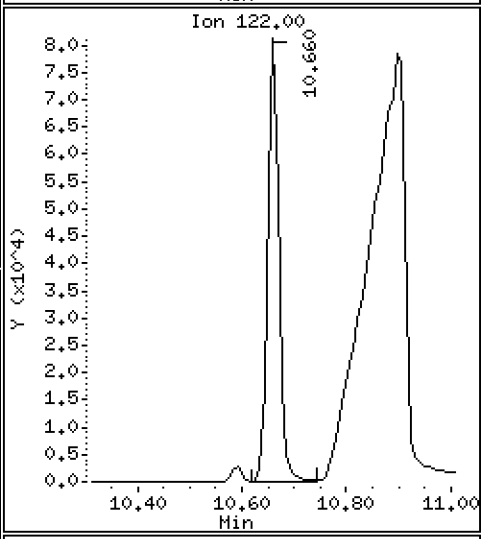
22 2,4-Dimethylphenol

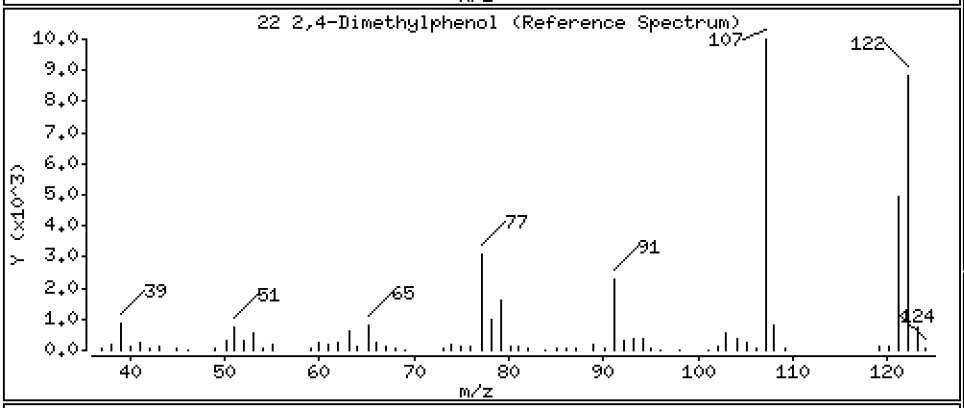
Concentration: 3.140 ug/mL

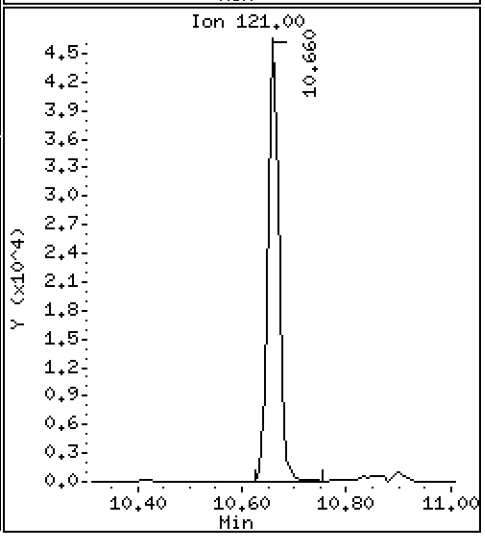


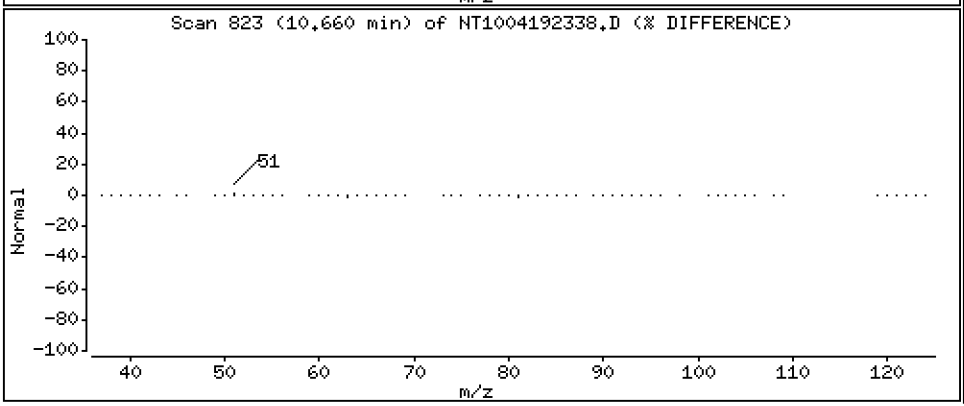












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

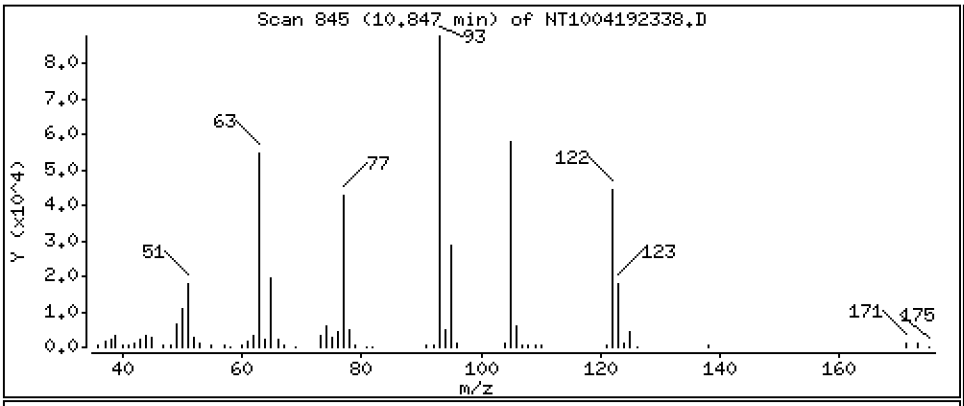
Operator: VTS

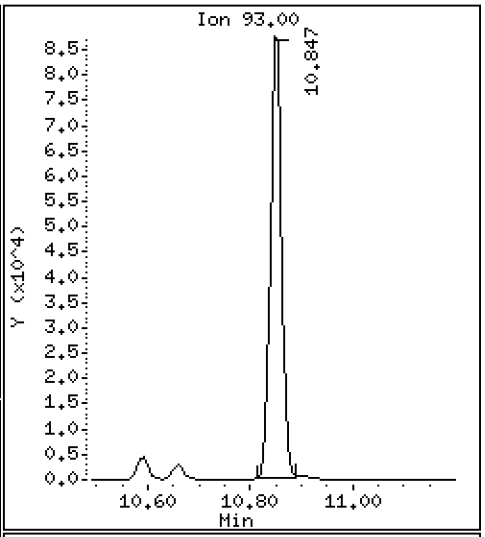
Column phase: ZB-5msi

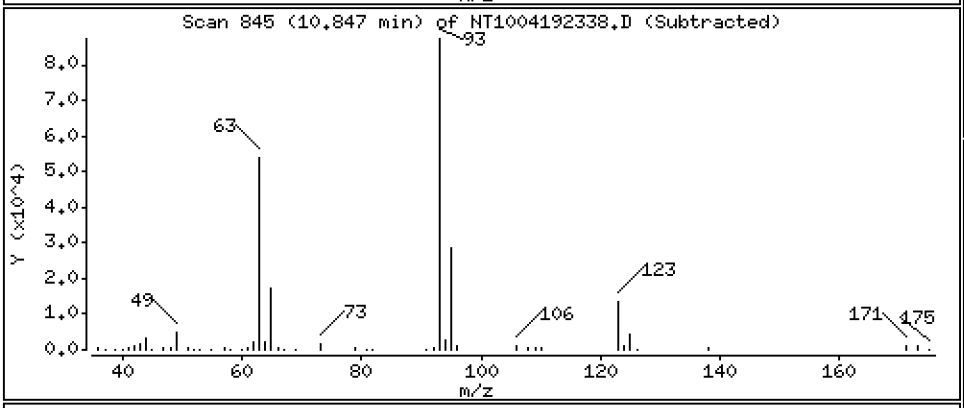
Column diameter: 0.25

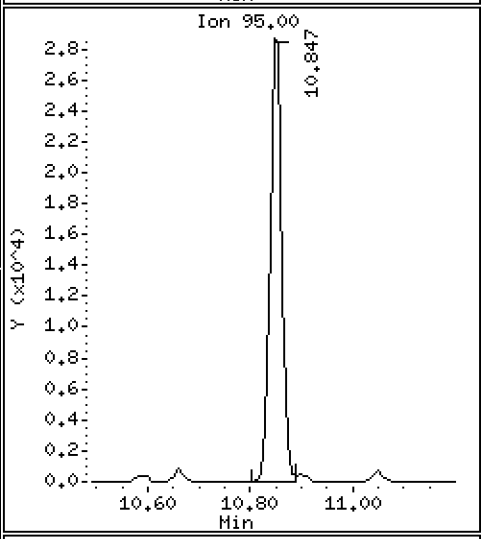
23 Bis(2-Chloroethoxy)methane

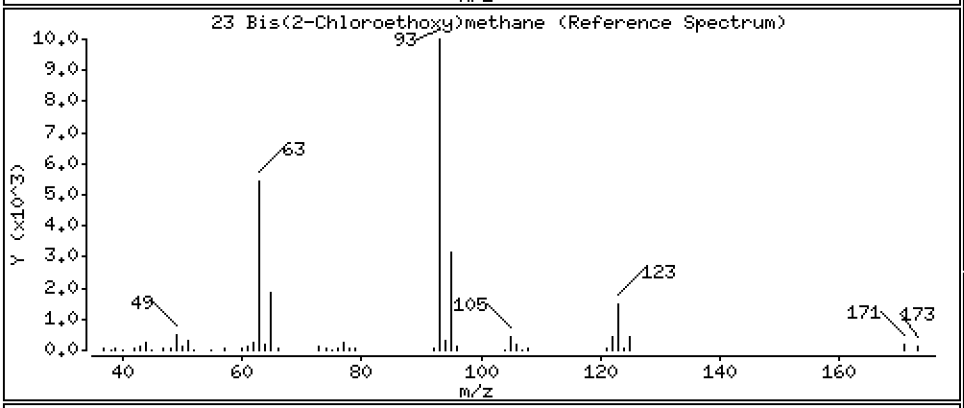
Concentration: 3.411 ug/mL

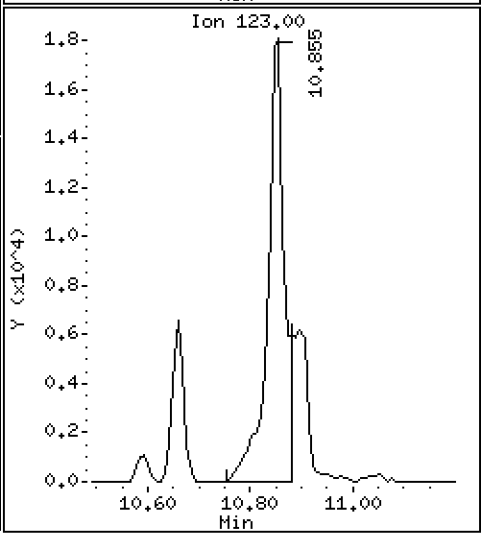


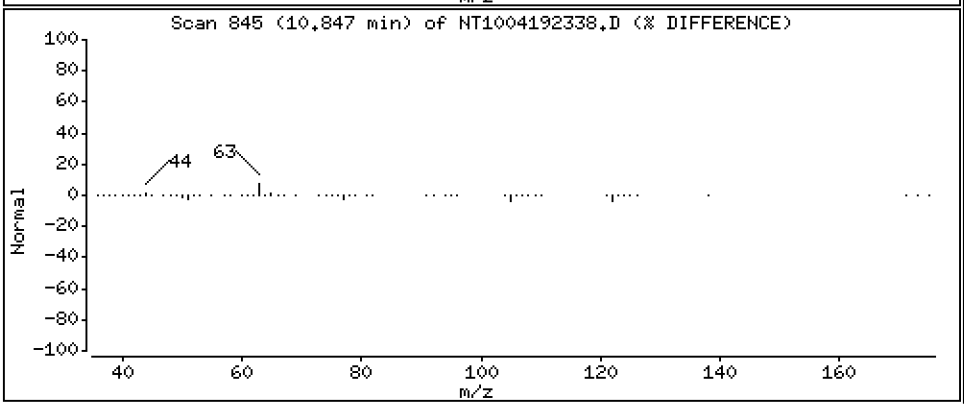












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

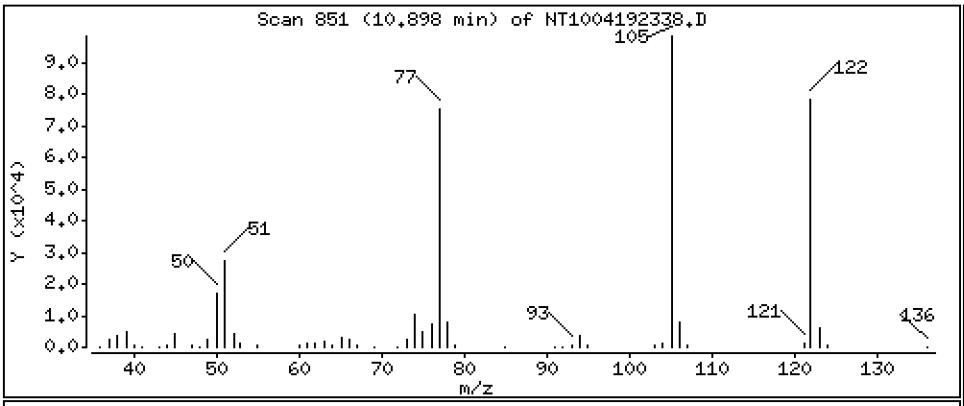
Operator: VTS

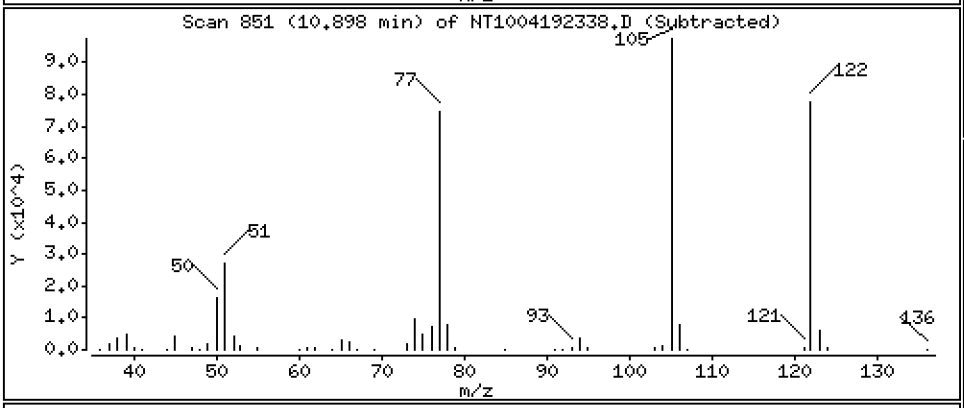
Column phase: ZB-5msi

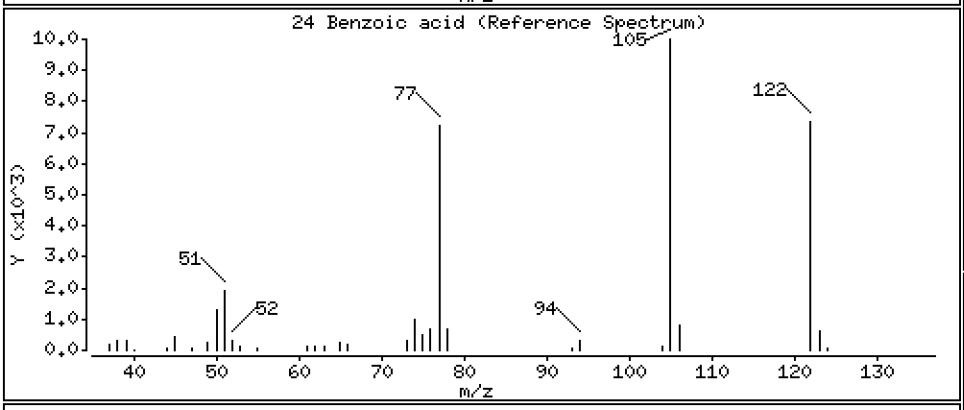
Column diameter: 0.25

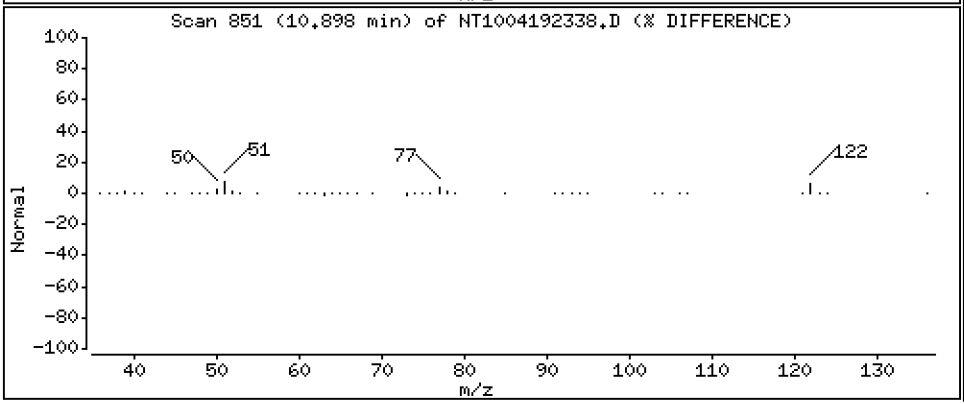
24 Benzoic acid

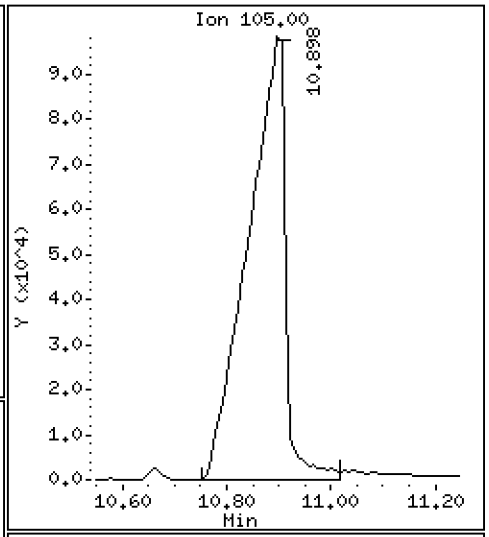
Concentration: 19.47 ug/mL

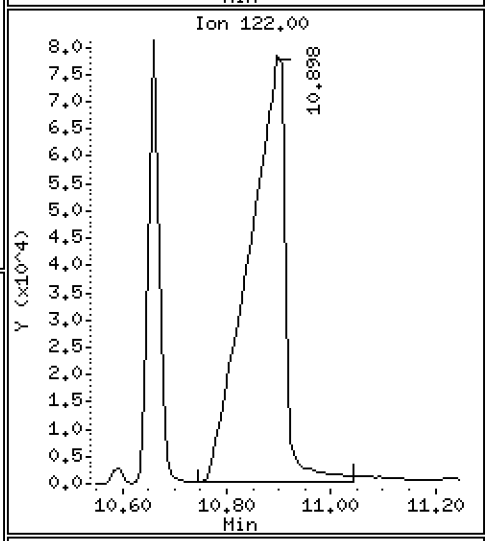


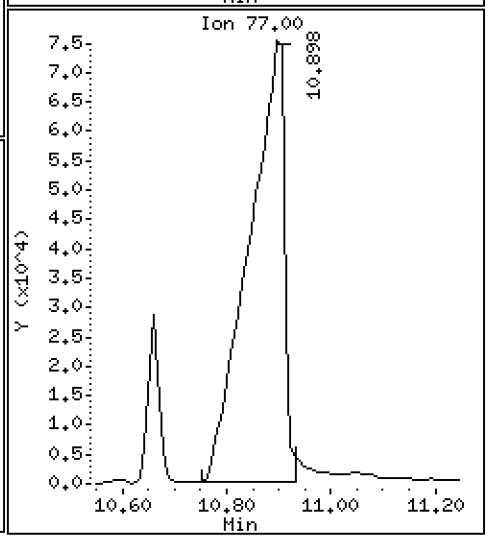












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

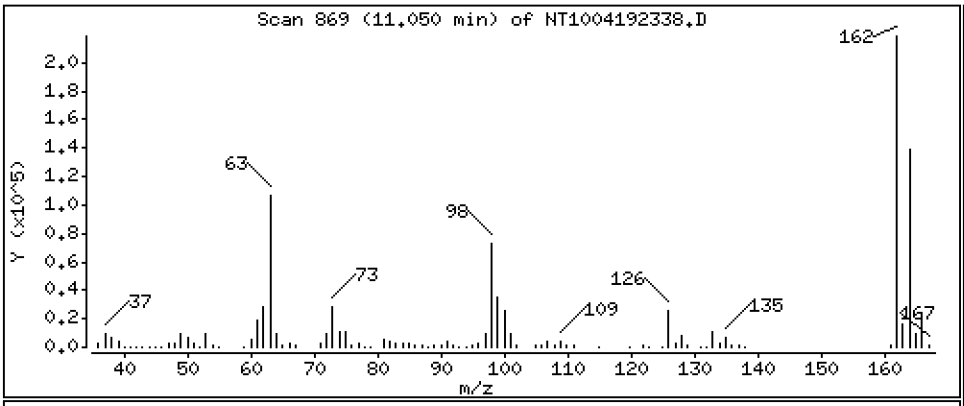
Operator: VTS

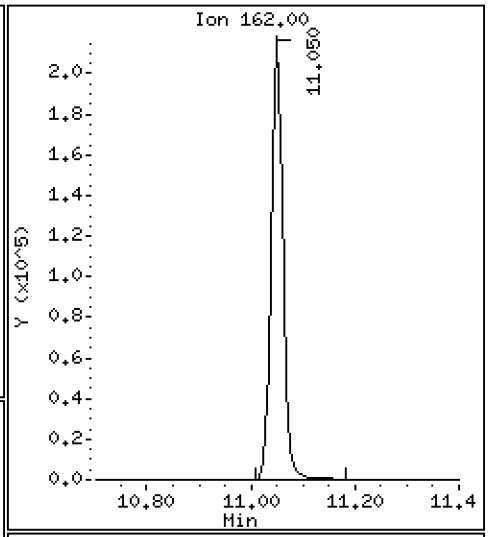
Column phase: ZB-5msi

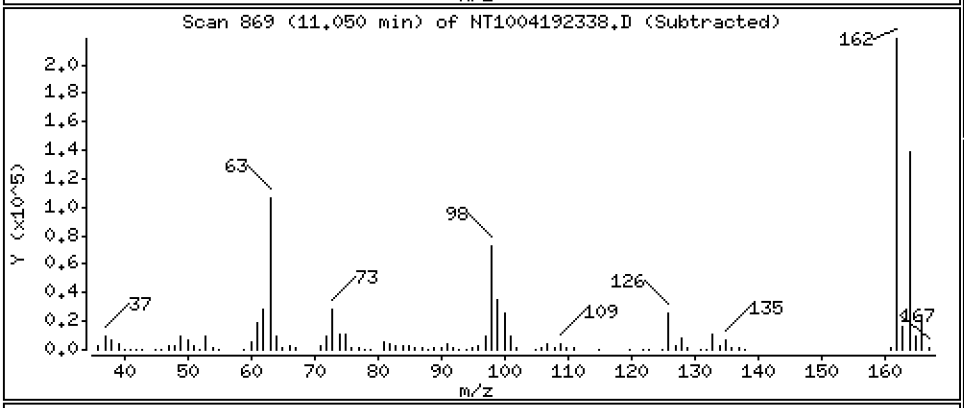
Column diameter: 0.25

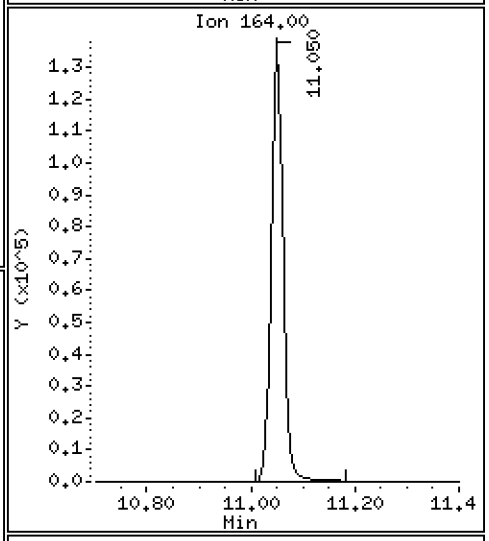
25 2,4-Dichlorophenol

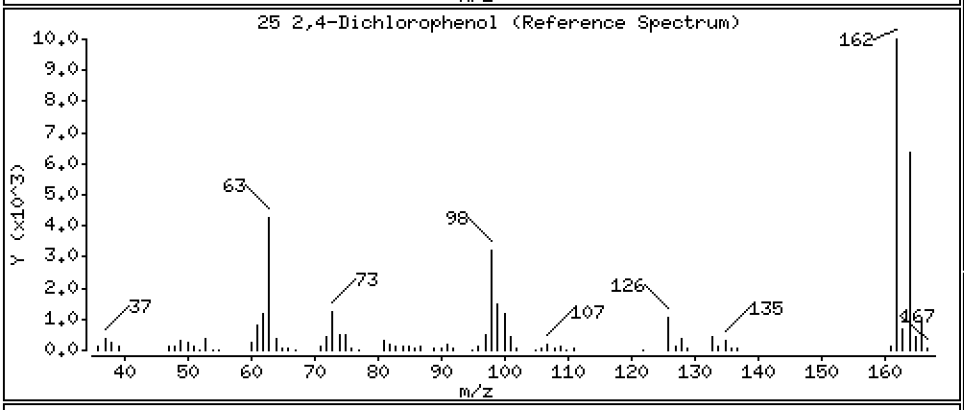
Concentration: 10.52 ug/mL

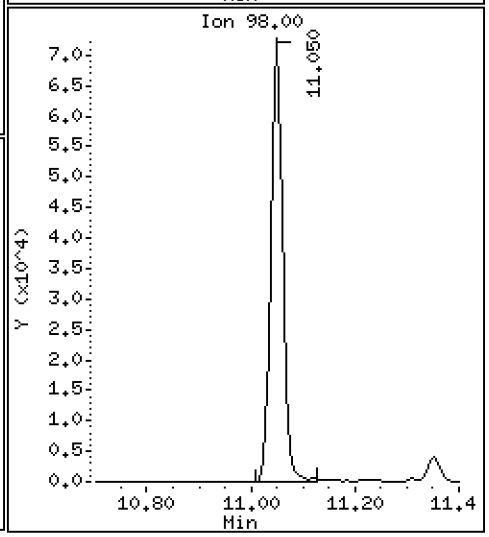


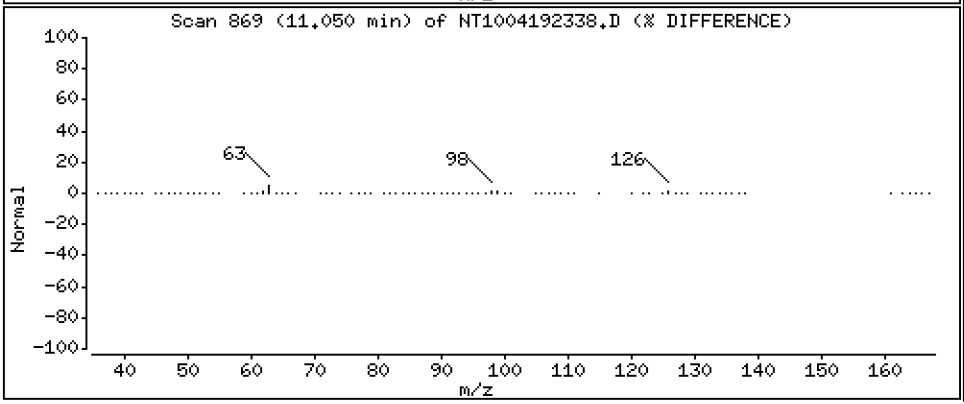












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

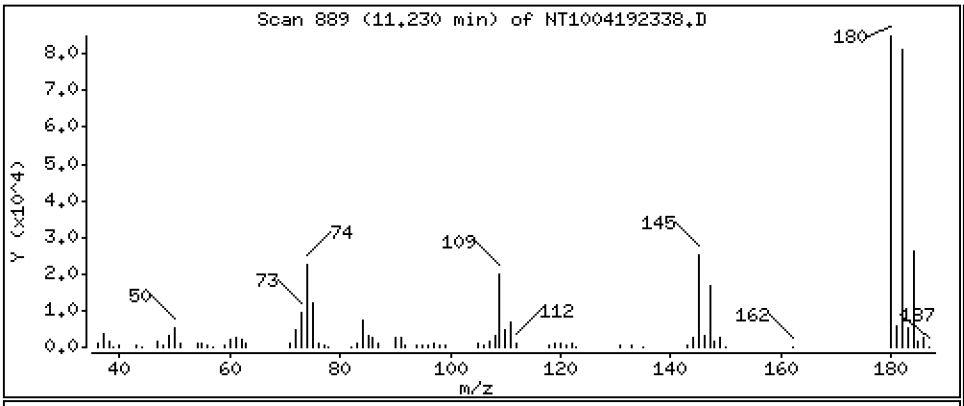
Operator: VTS

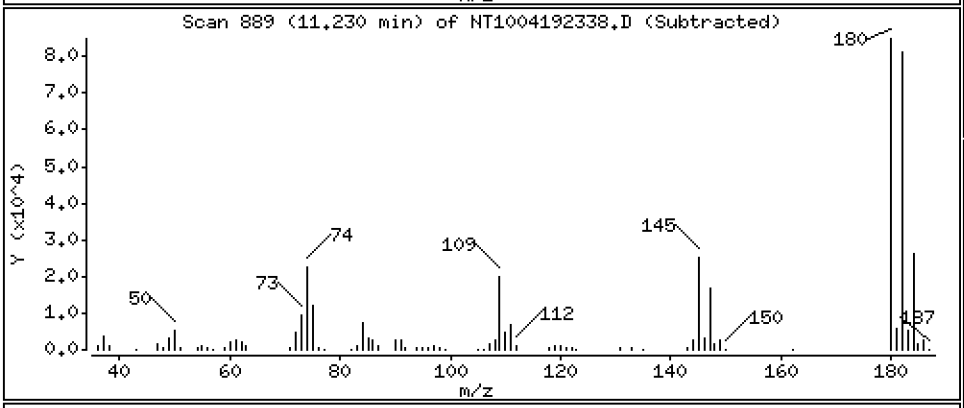
Column phase: ZB-5msi

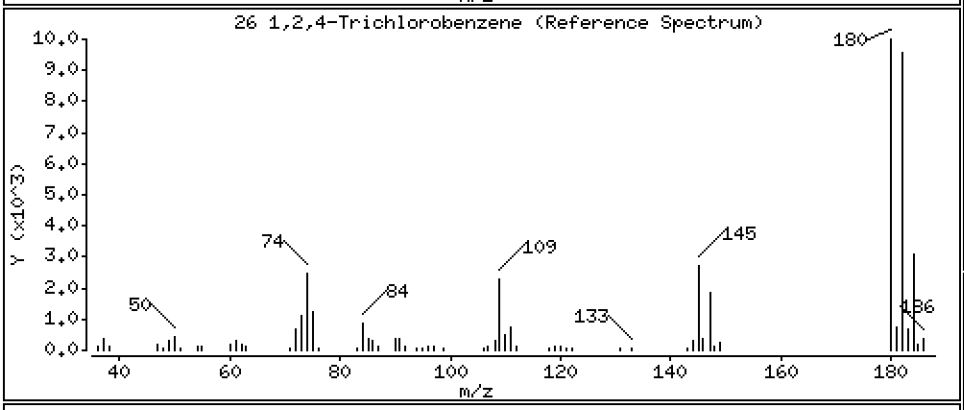
Column diameter: 0.25

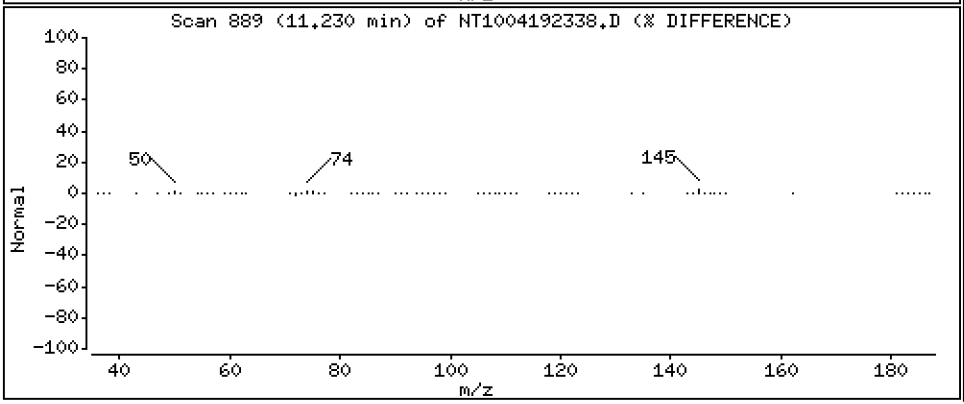
26 1,2,4-Trichlorobenzene

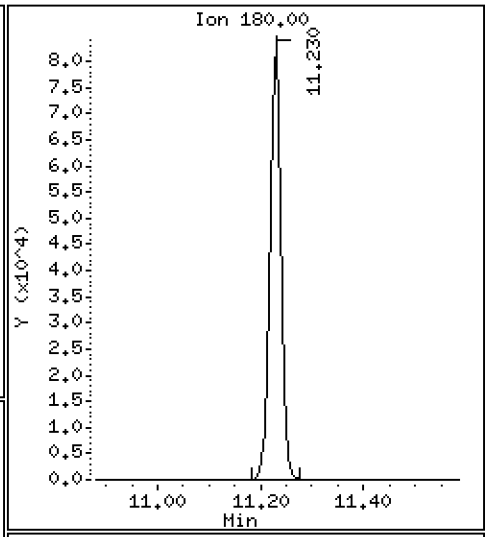
Concentration: 3.105 ug/mL

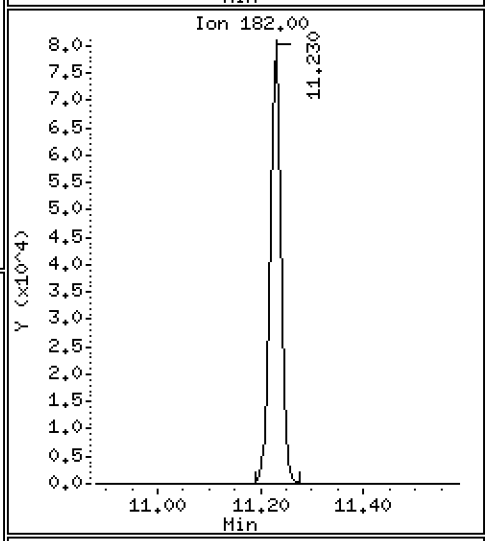


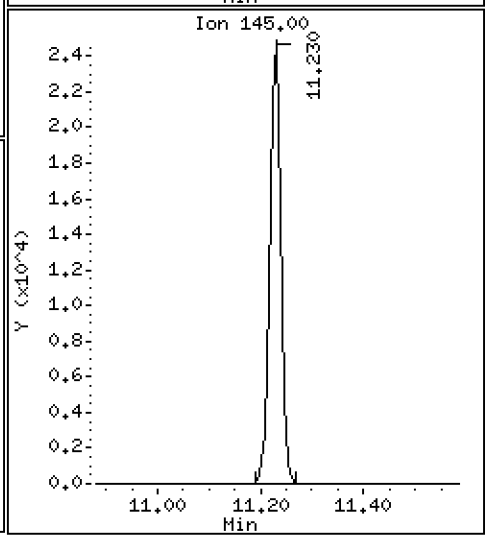












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

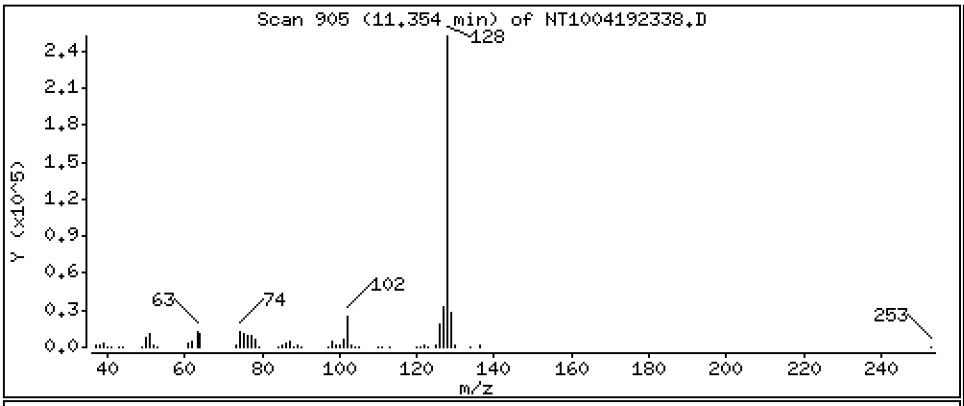
Operator: VTS

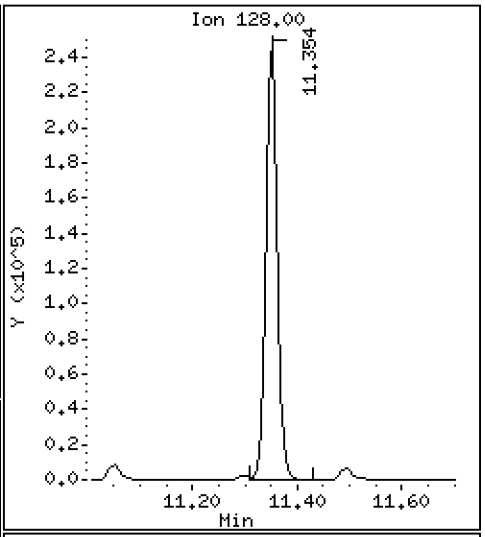
Column phase: ZB-5msi

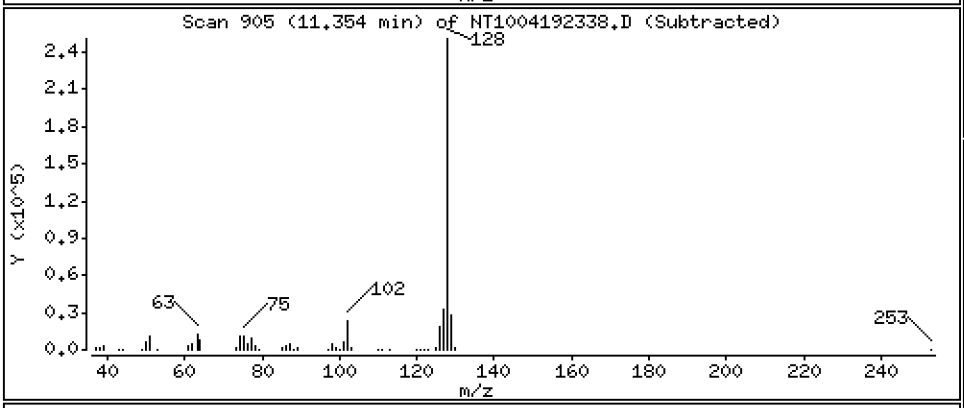
Column diameter: 0.25

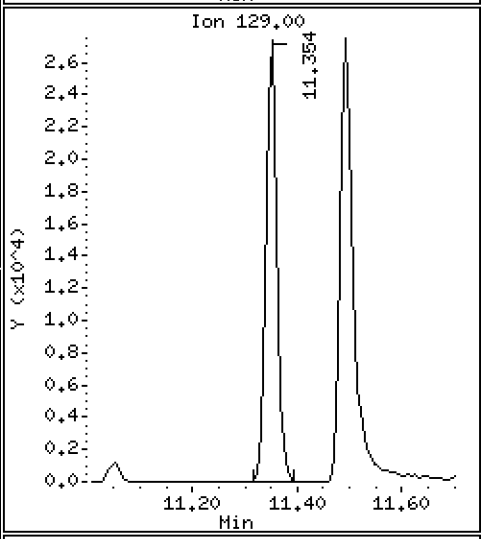
28 Naphthalene

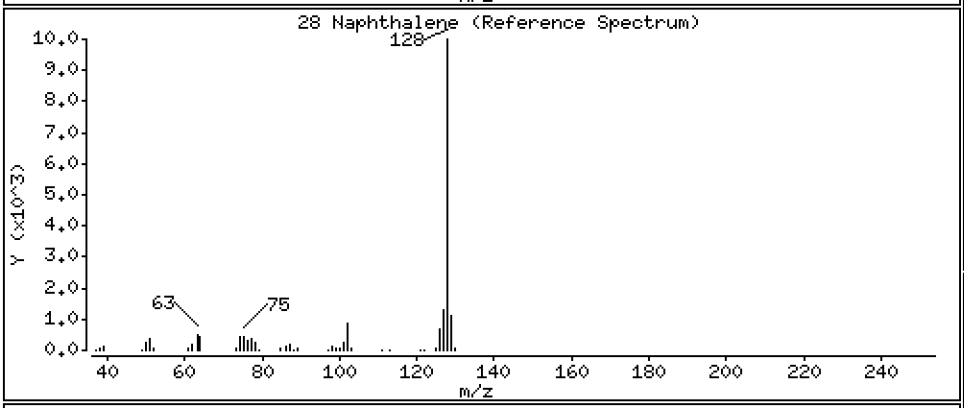
Concentration: 3.014 ug/mL

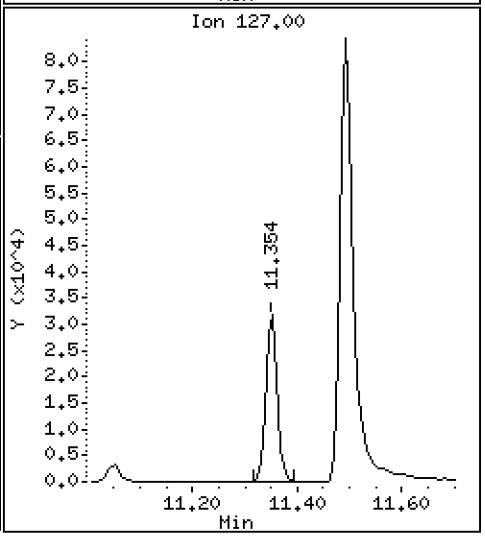


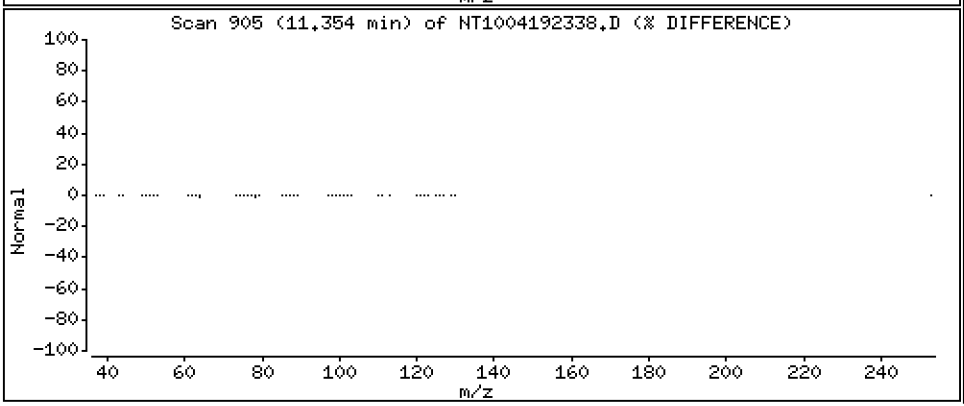












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

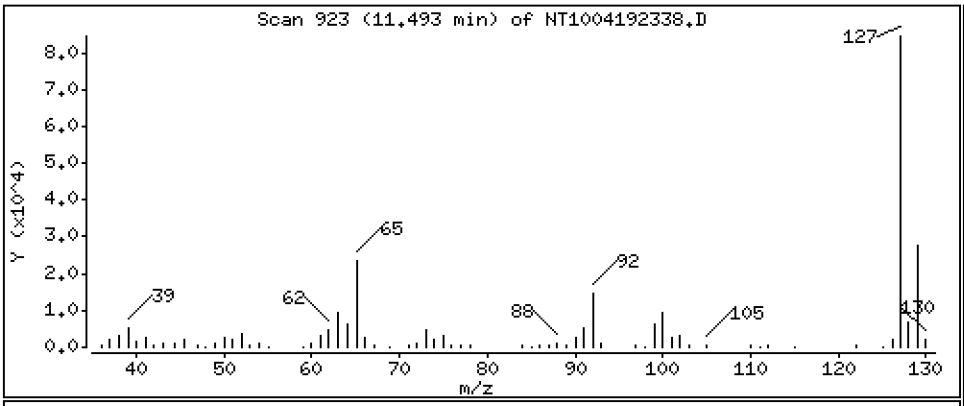
Operator: VTS

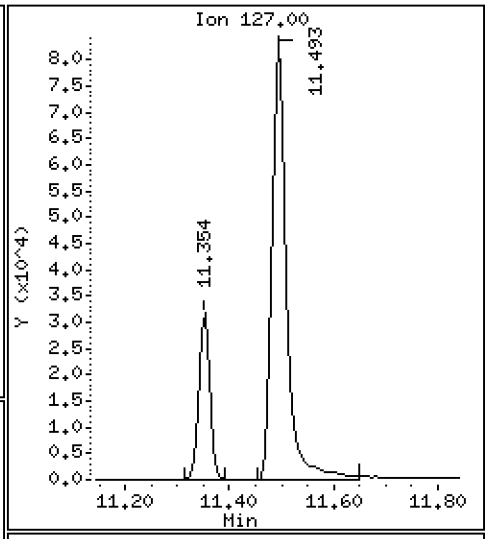
Column phase: ZB-5msi

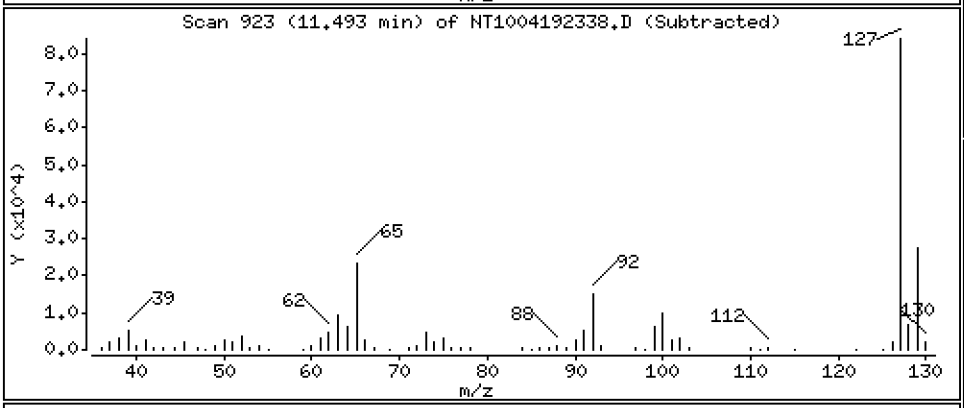
Column diameter: 0.25

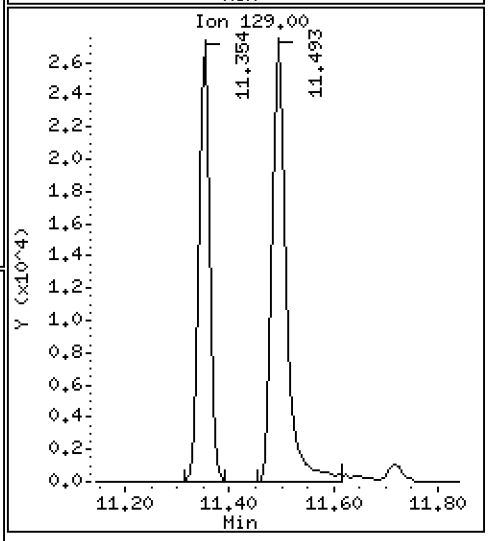
29 4-Chloroaniline

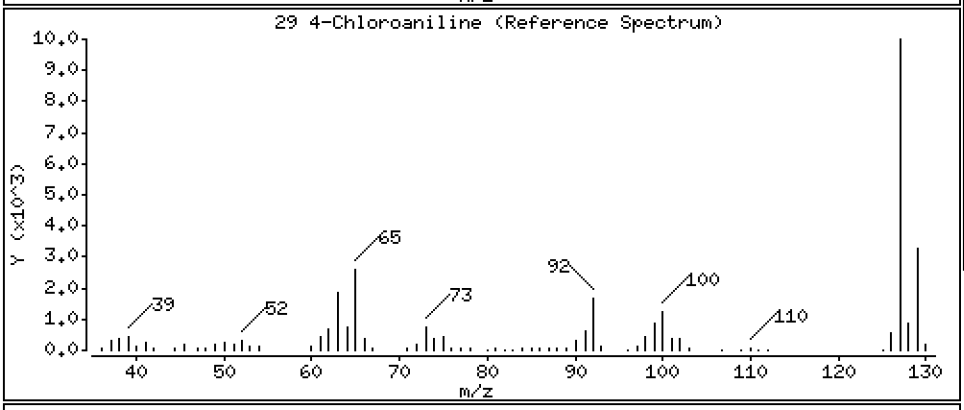
Concentration: 3.475 ug/mL

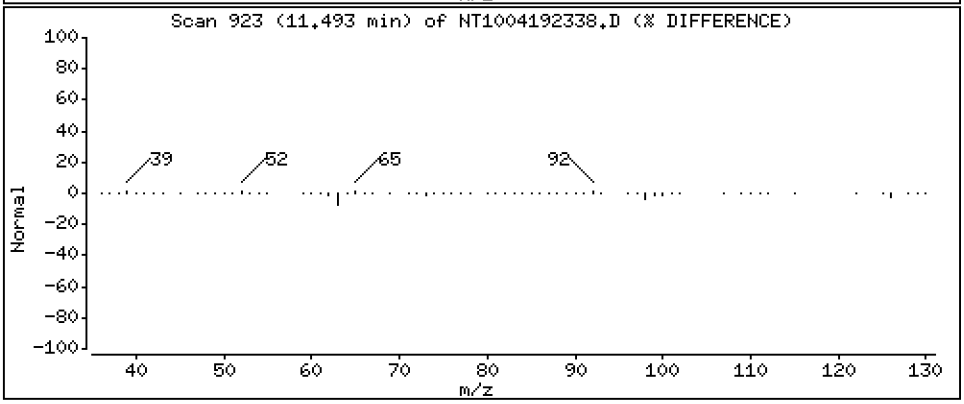












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

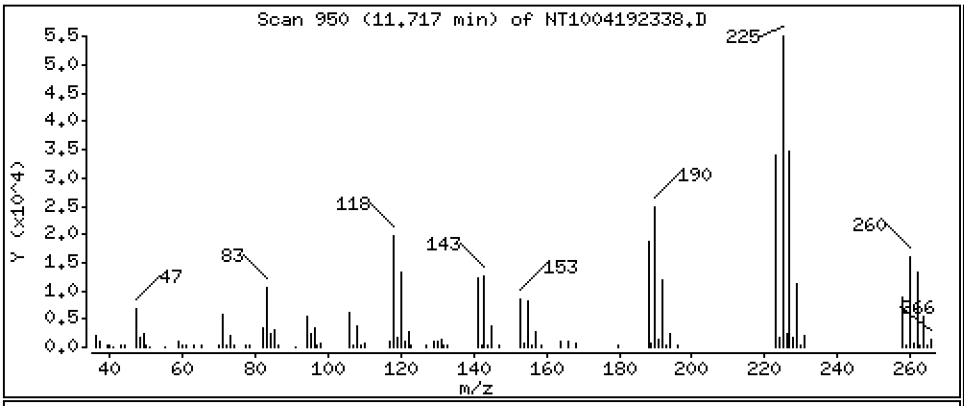
Operator: VTS

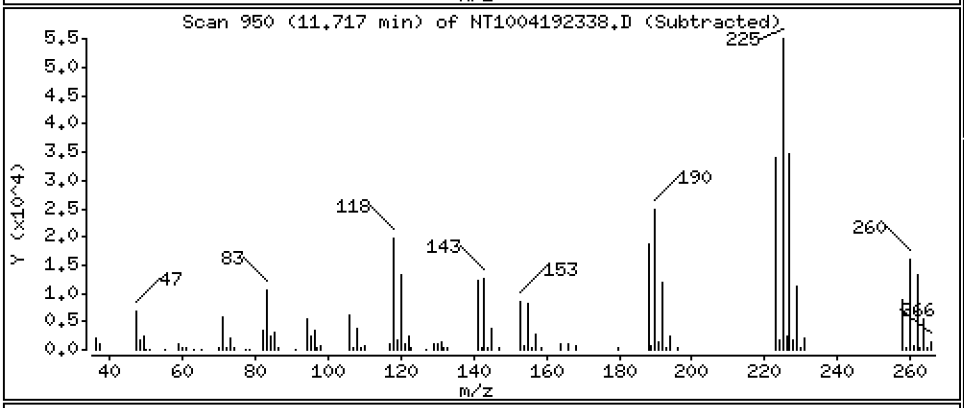
Column phase: ZB-5msi

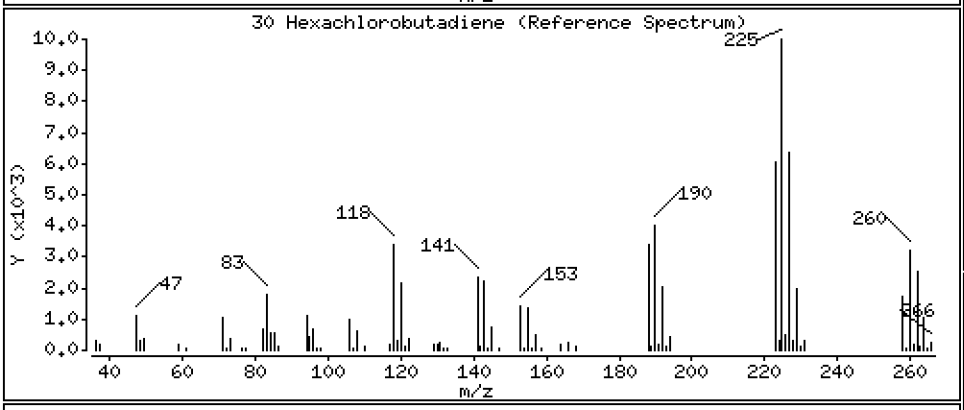
Column diameter: 0.25

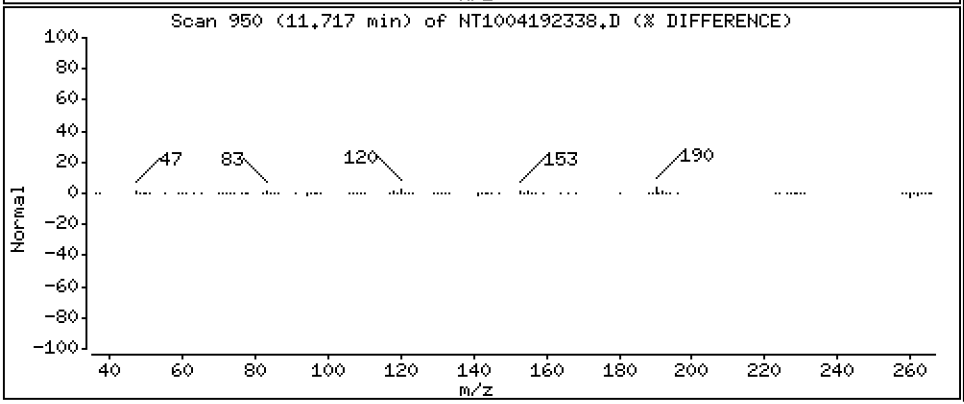
30 Hexachlorobutadiene

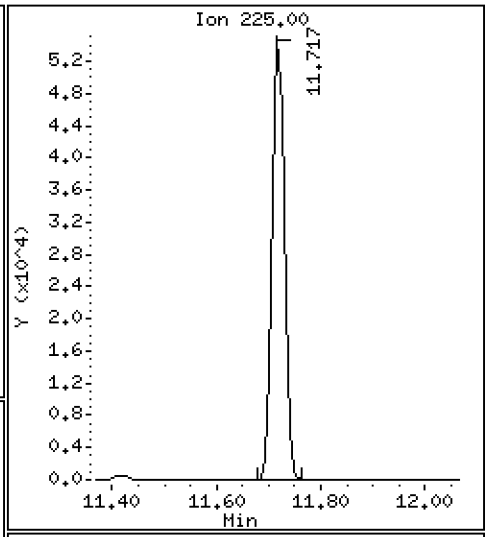
Concentration: 3.523 ug/mL

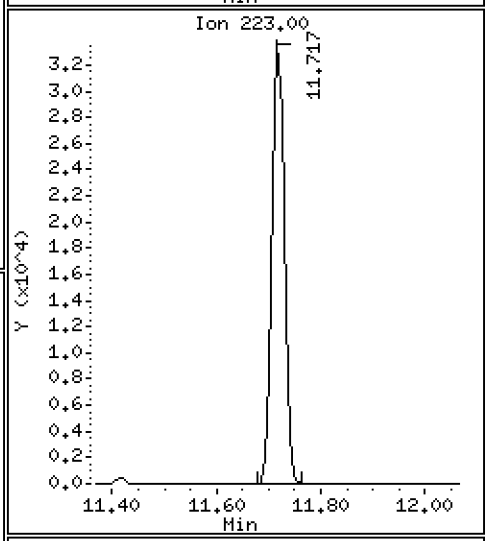


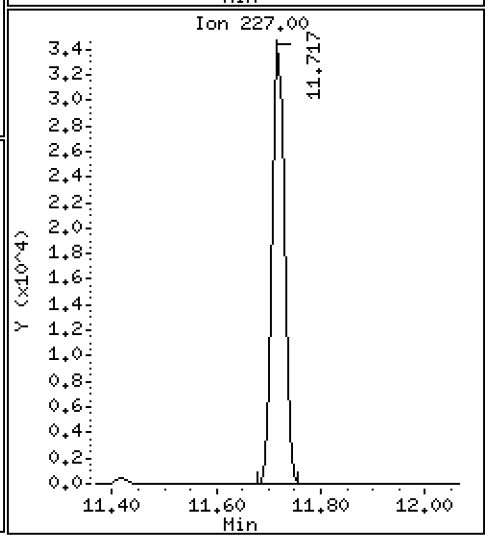












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

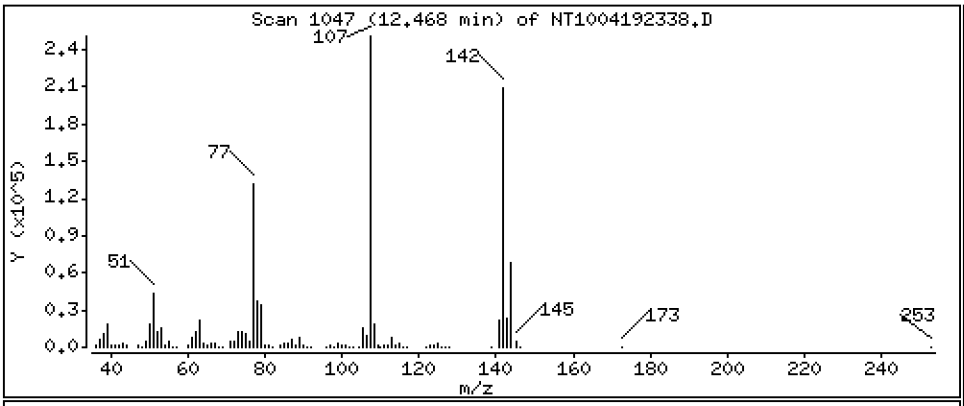
Operator: VTS

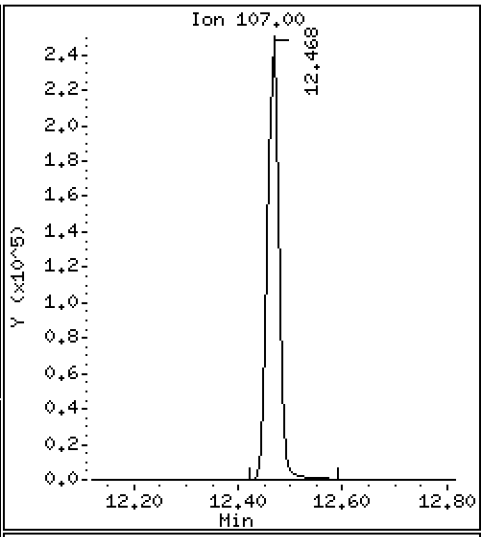
Column phase: ZB-5msi

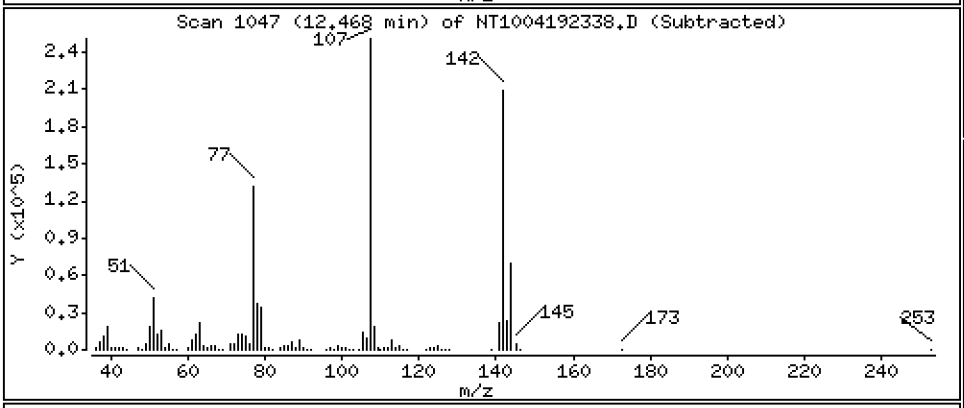
Column diameter: 0.25

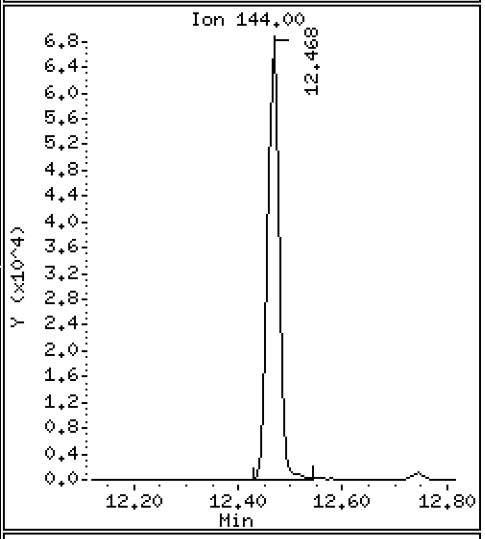
31 4-Chloro-3-methylphenol

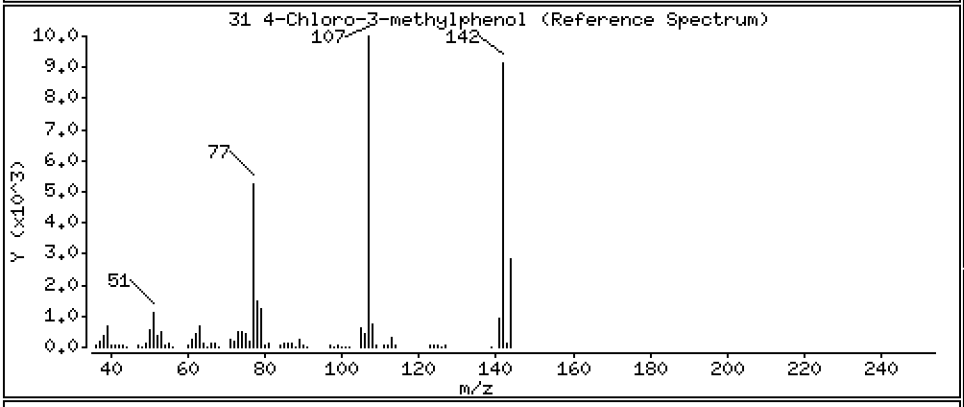
Concentration: 9.475 ug/mL

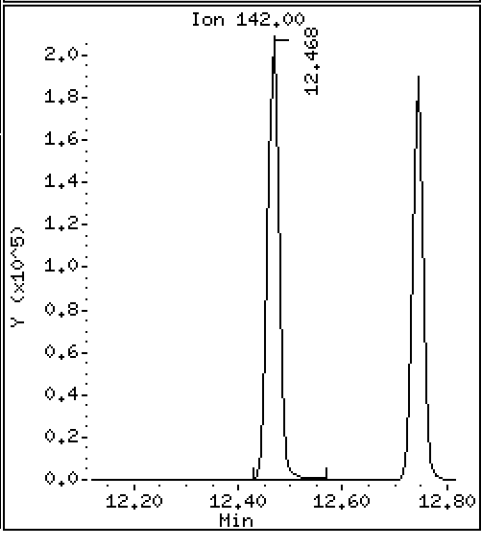


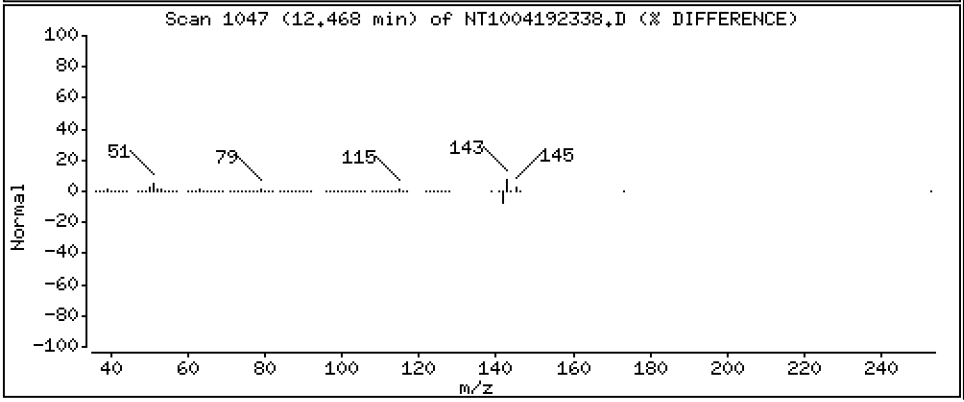












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

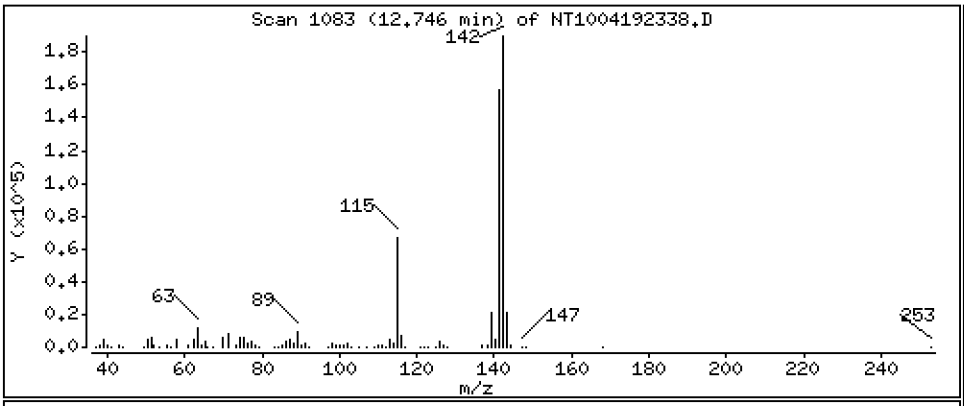
Operator: VTS

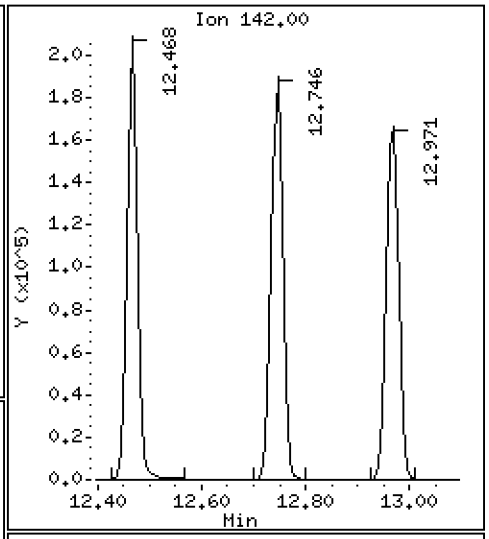
Column phase: ZB-5msi

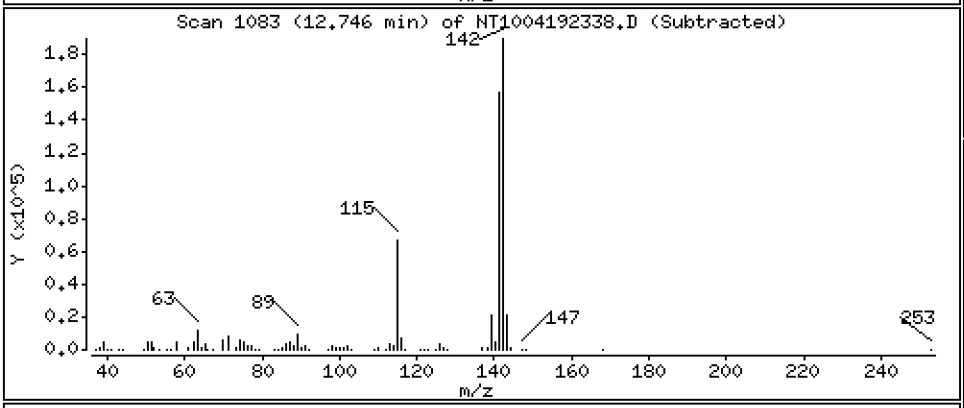
Column diameter: 0.25

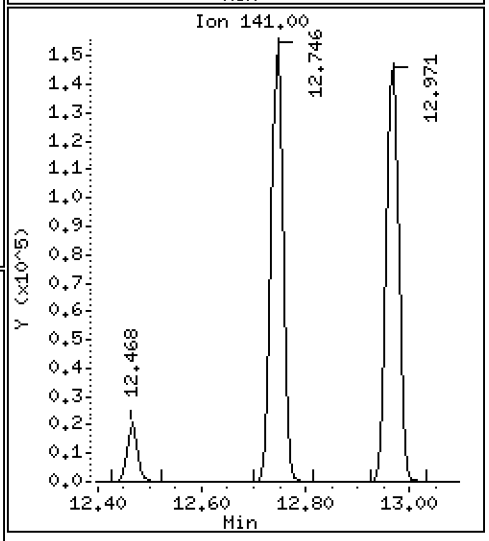
32 2-Methylnaphthalene

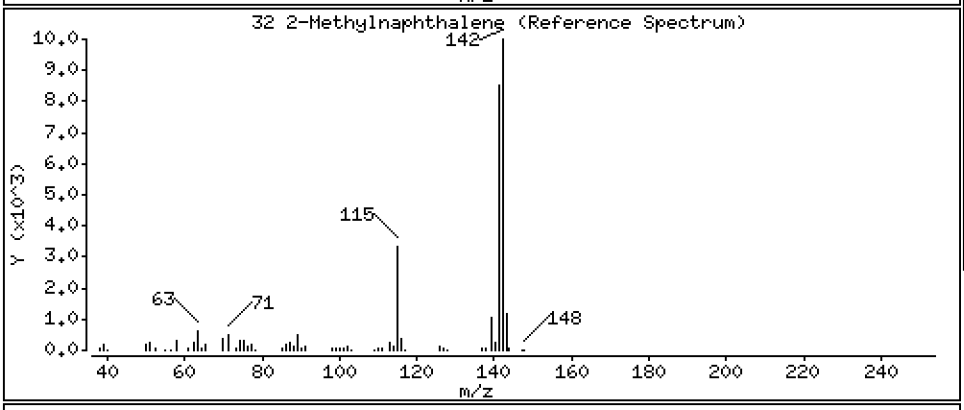
Concentration: 3.046 ug/mL

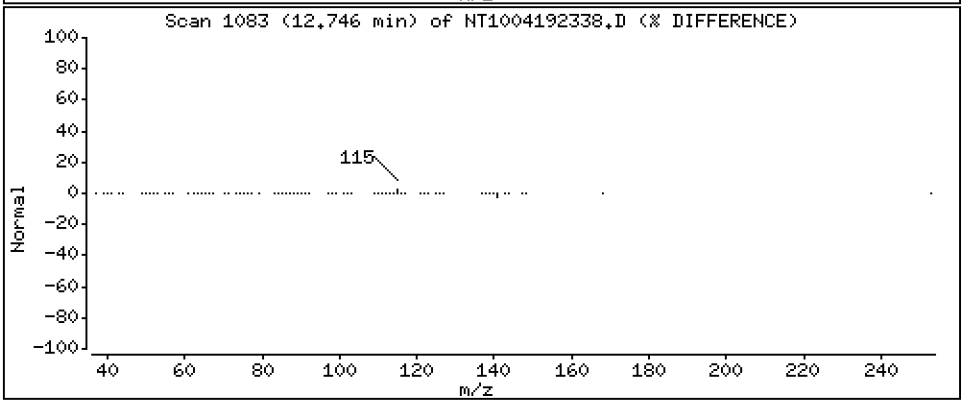












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192338.D

Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

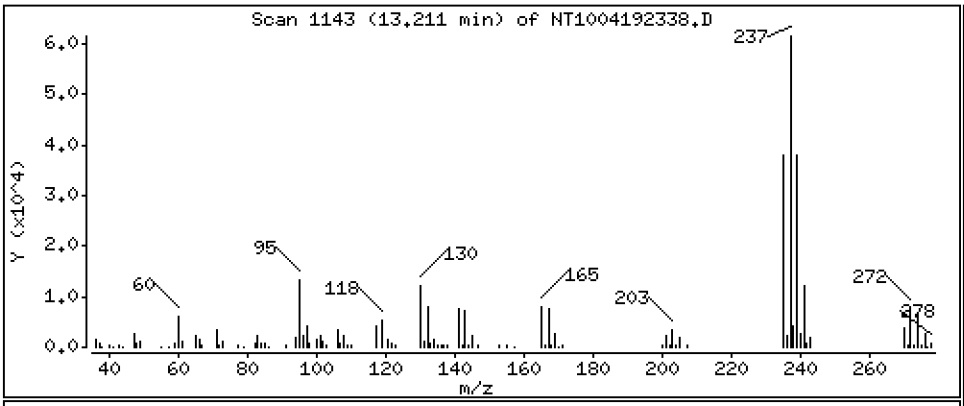
Operator: VTS

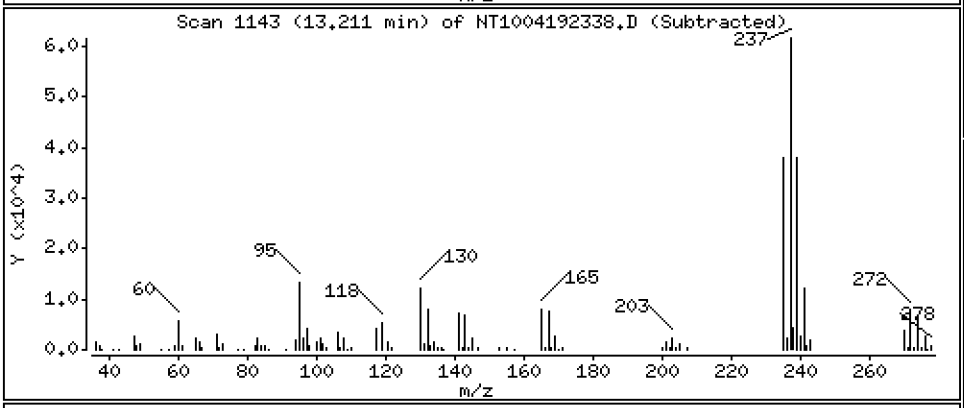
Column phase: ZB-5msi

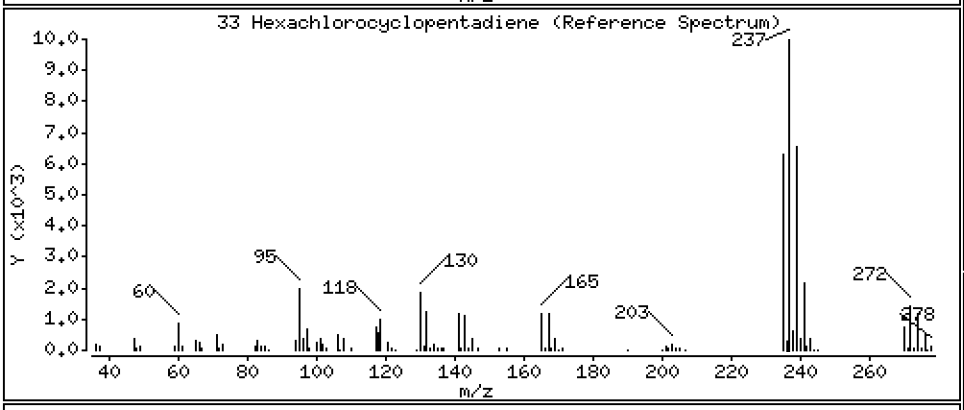
Column diameter: 0.25

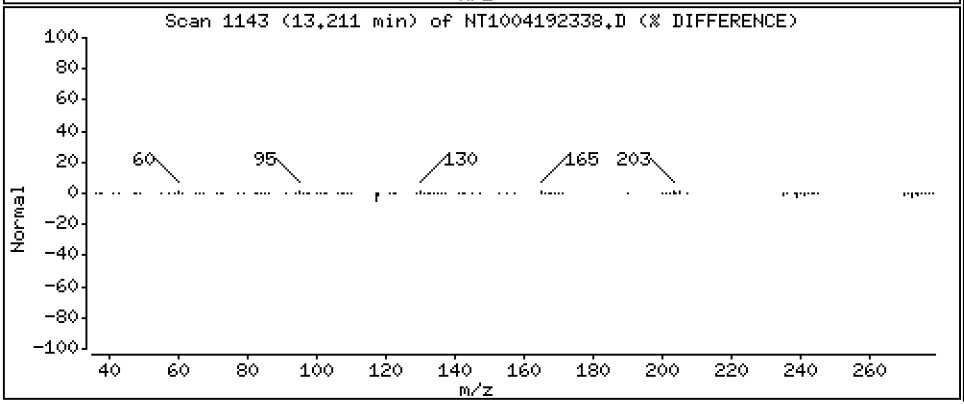
33 Hexachlorocyclopentadiene

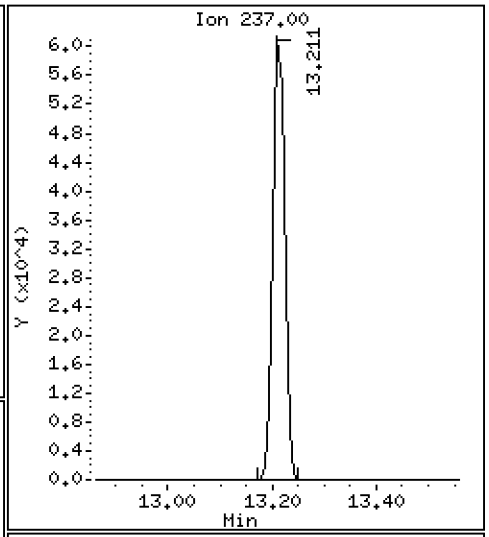
Concentration: 3.451 ug/mL

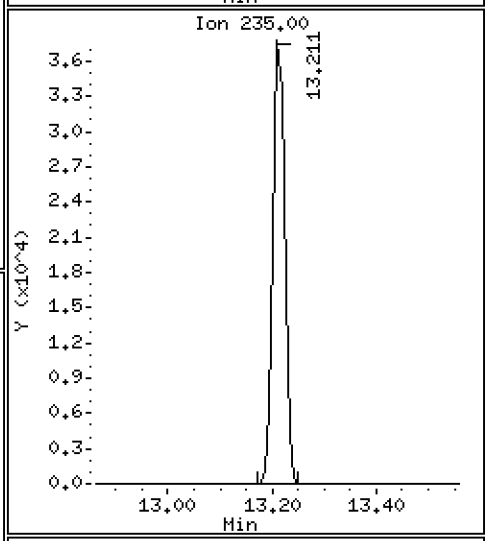


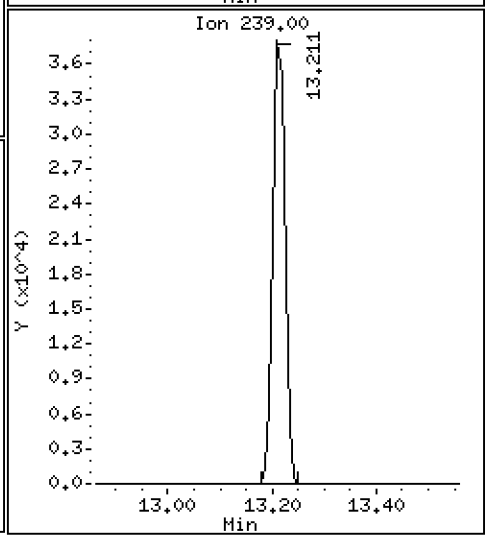












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

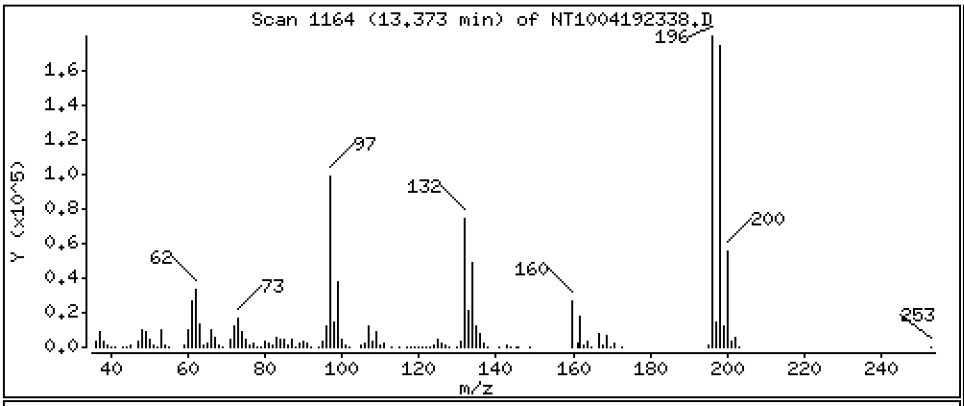
Operator: VTS

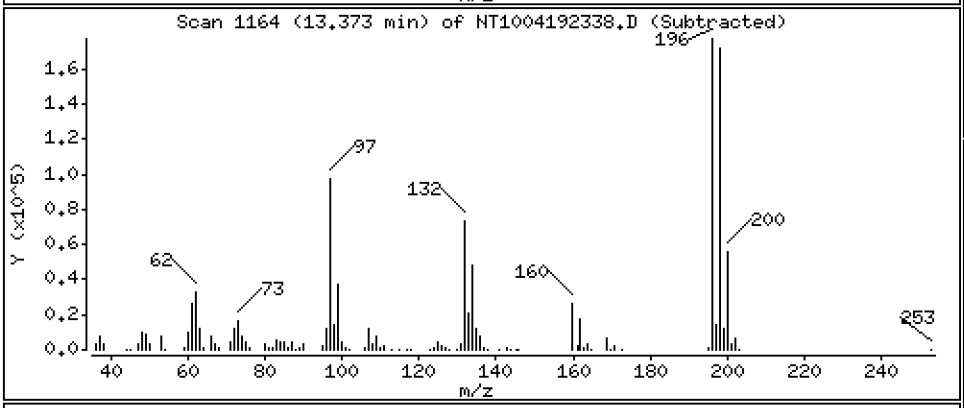
Column phase: ZB-5msi

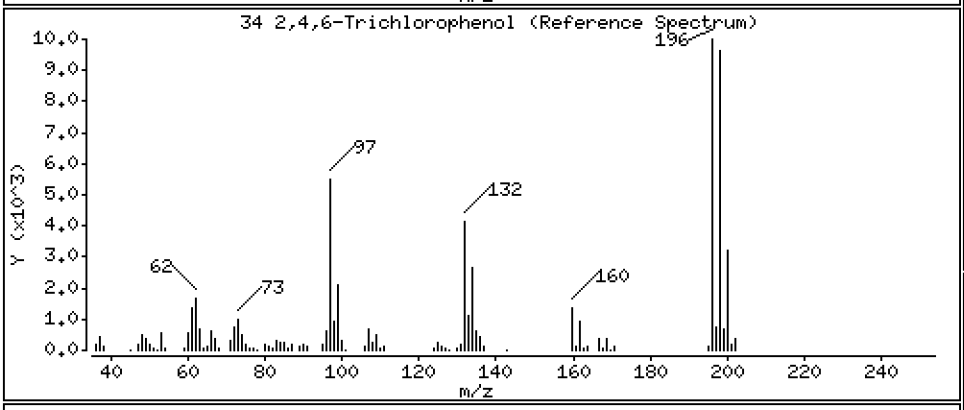
Column diameter: 0.25

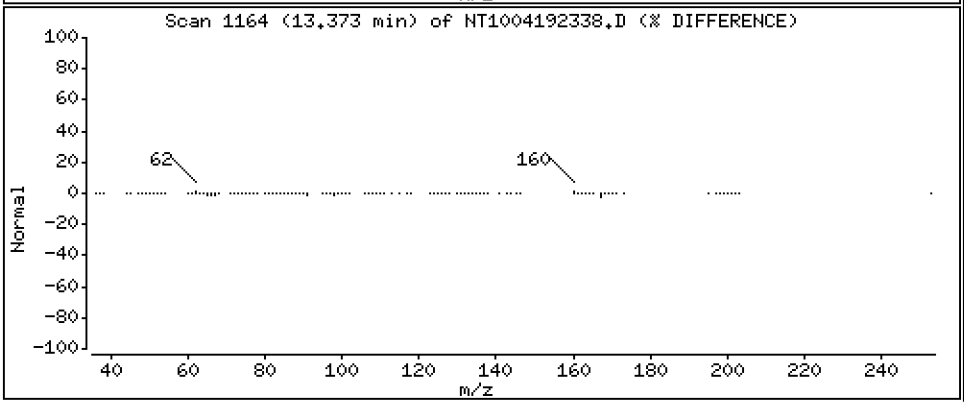
34 2,4,6-Trichlorophenol

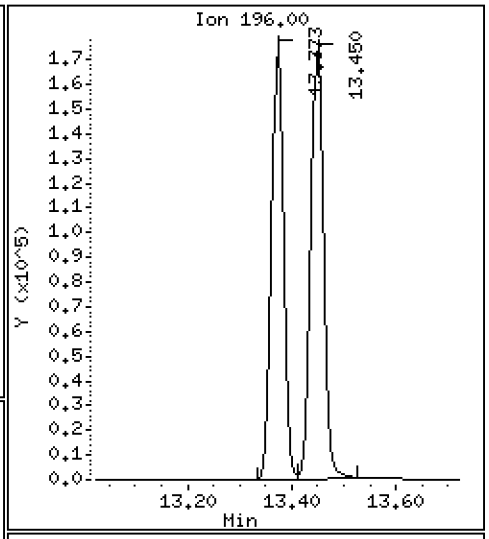
Concentration: 9.457 ug/mL

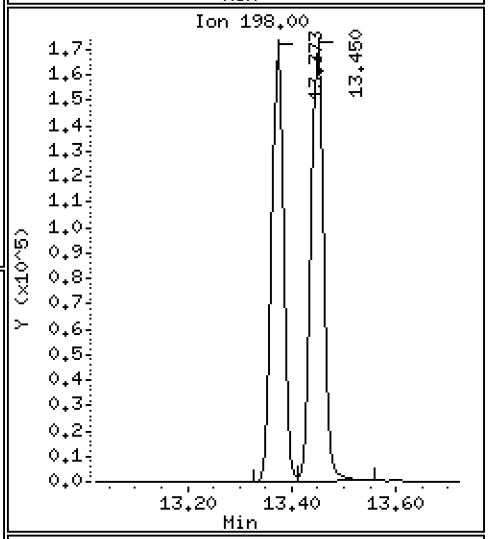


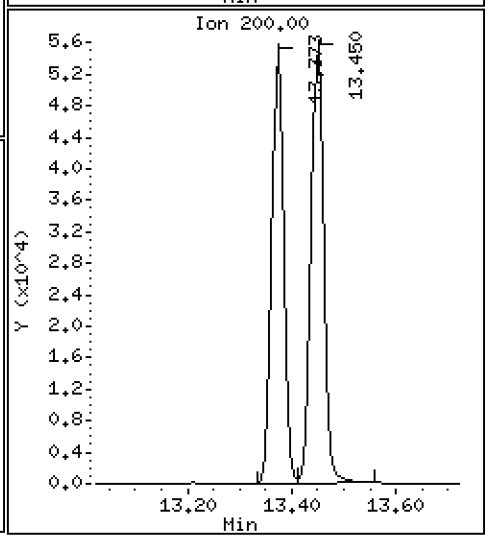












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

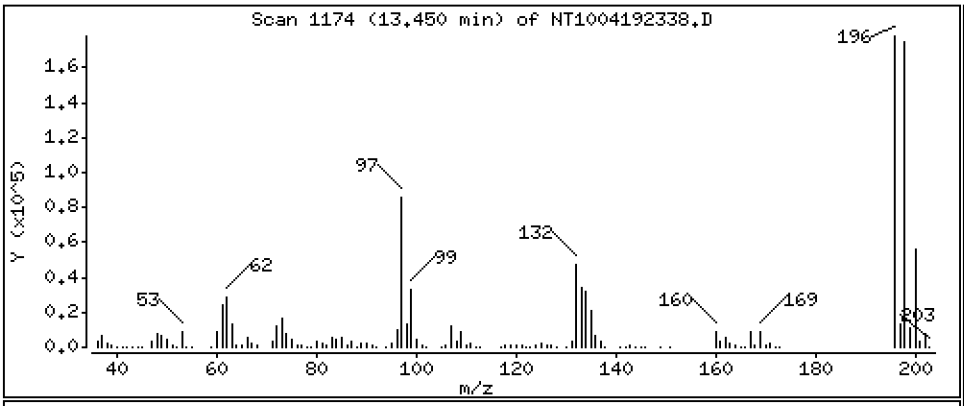
Operator: VTS

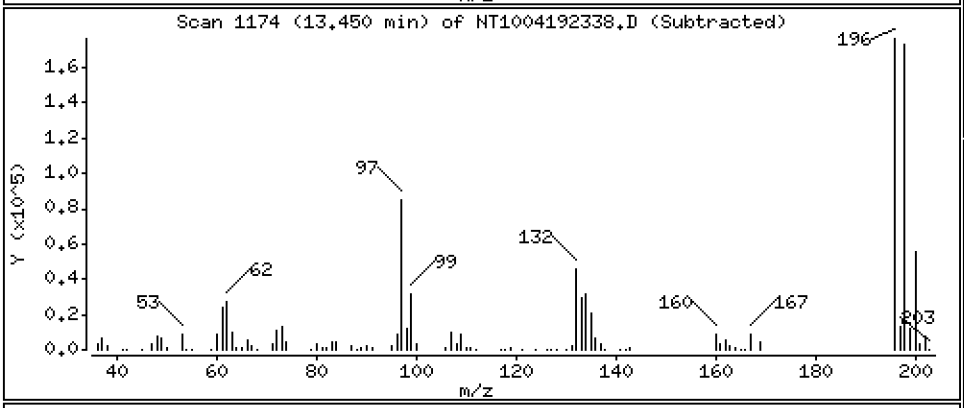
Column phase: ZB-5msi

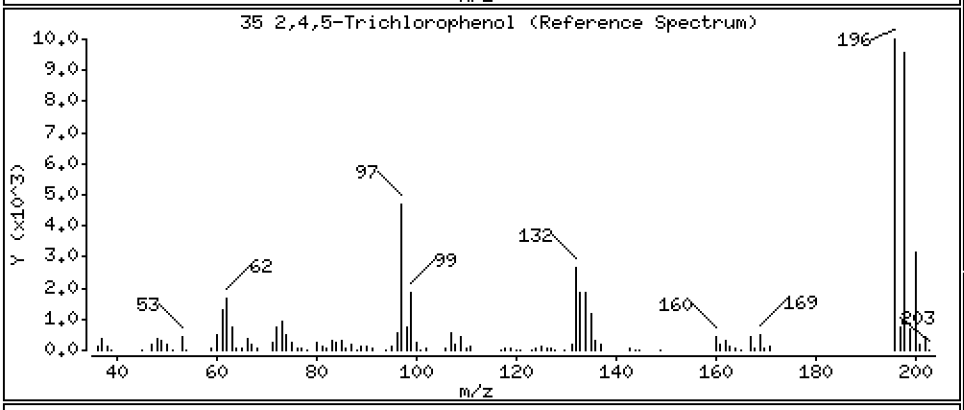
Column diameter: 0.25

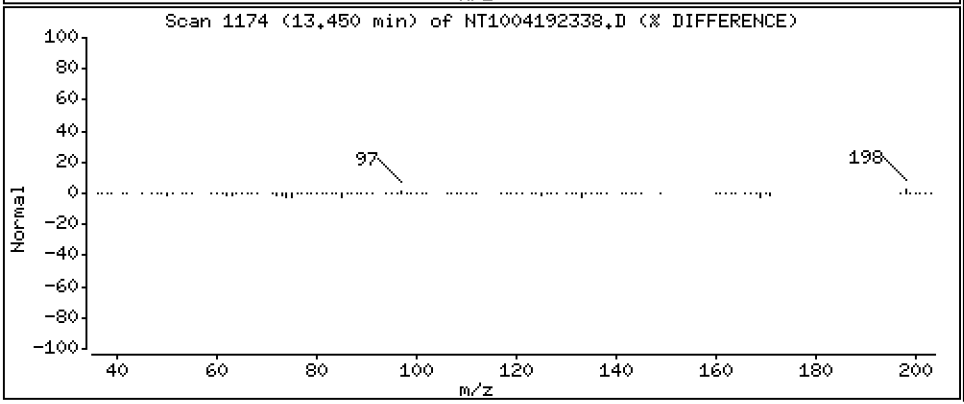
35 2,4,5-Trichlorophenol

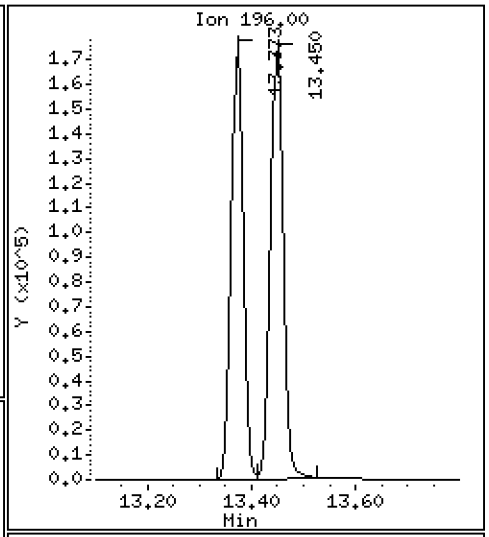
Concentration: 8.995 ug/mL

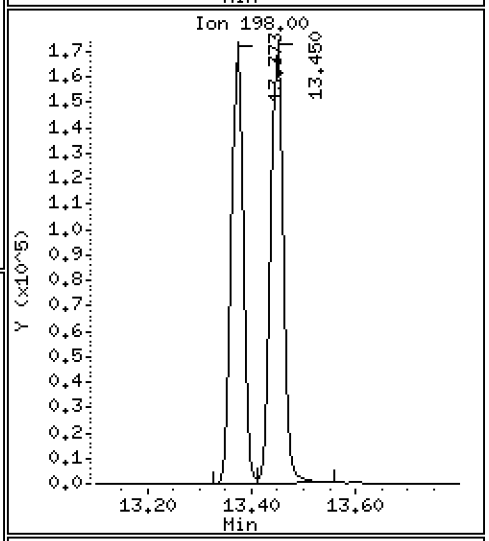


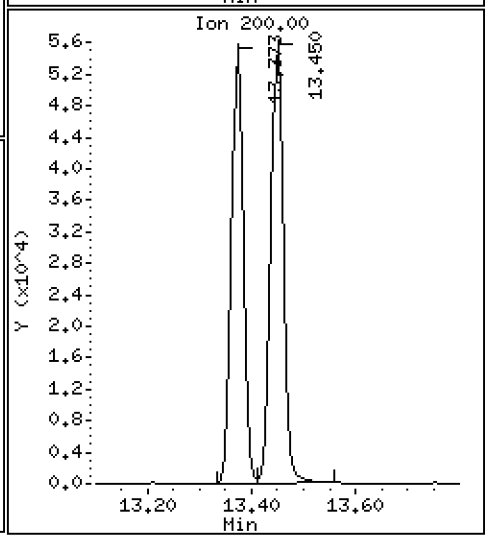












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

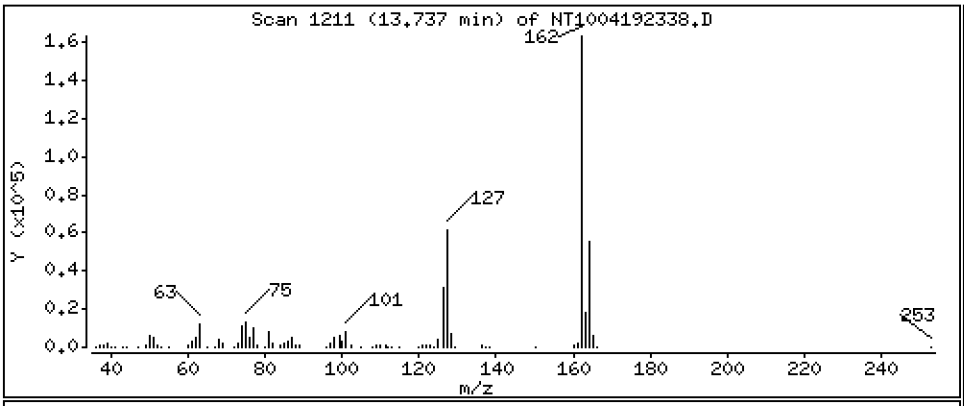
Operator: VTS

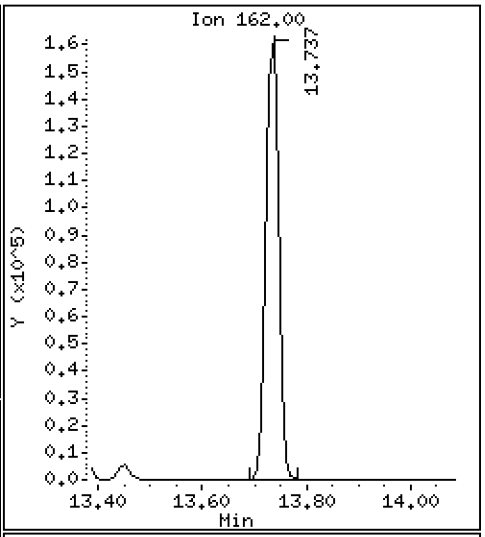
Column phase: ZB-5msi

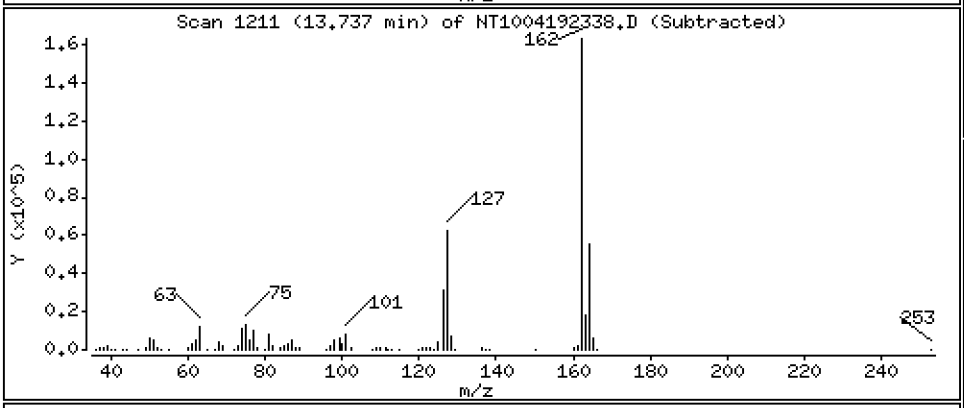
Column diameter: 0.25

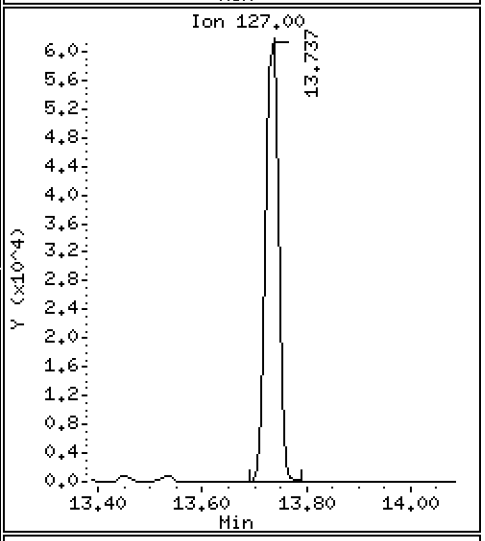
37 2-Chloronaphthalene

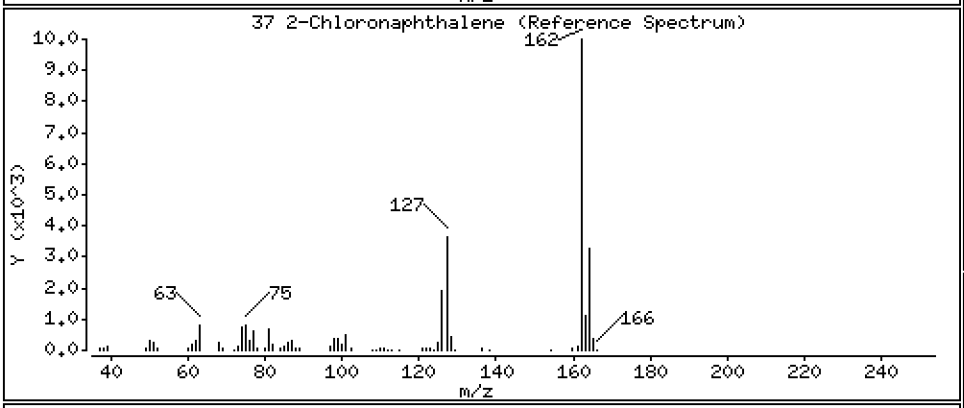
Concentration: 2.879 ug/mL

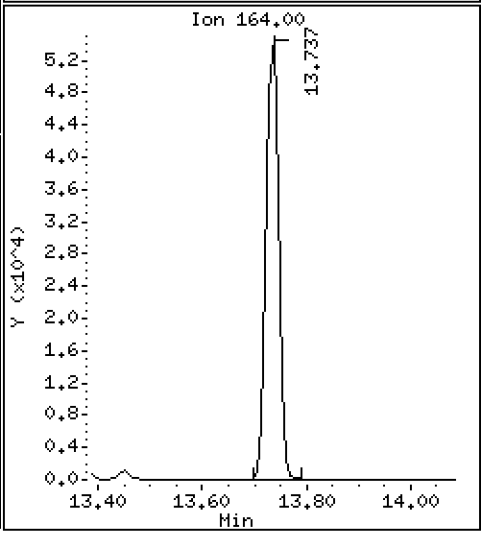


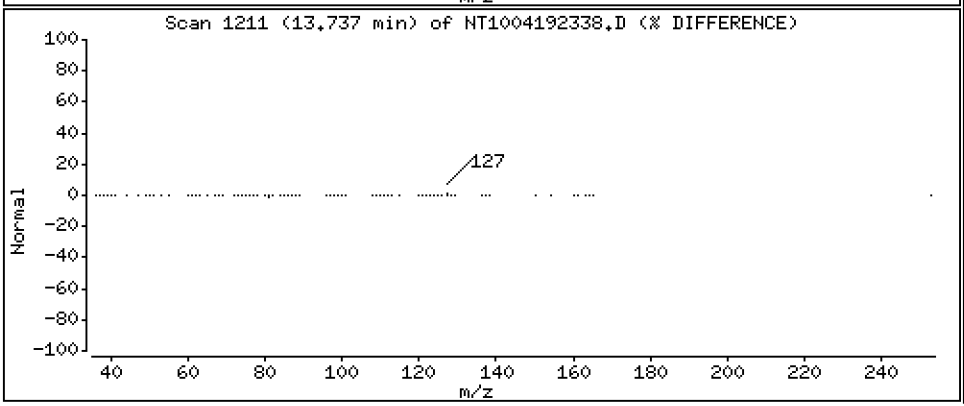












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192338.D

Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

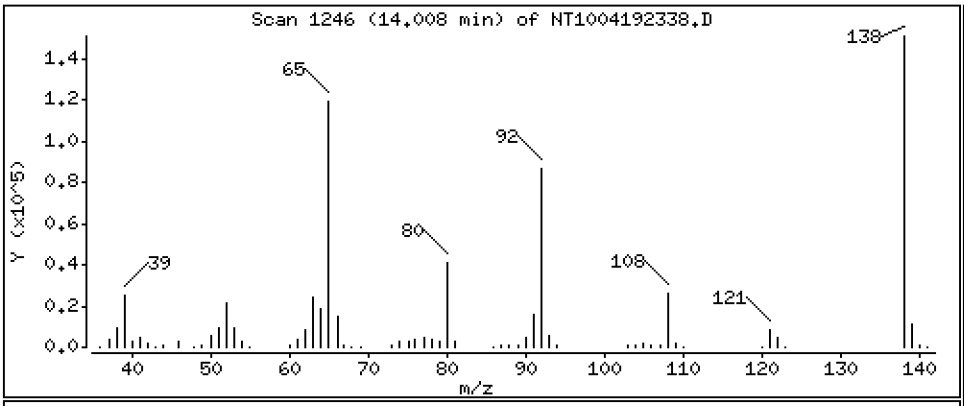
Operator: VTS

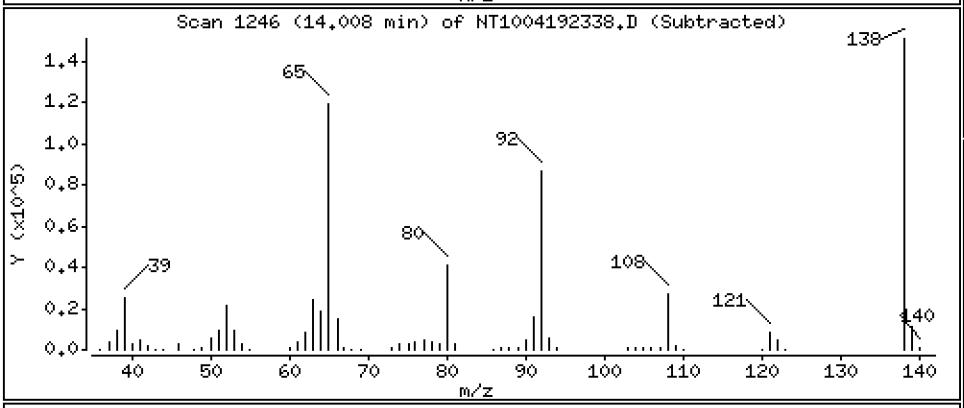
Column phase: ZB-5msi

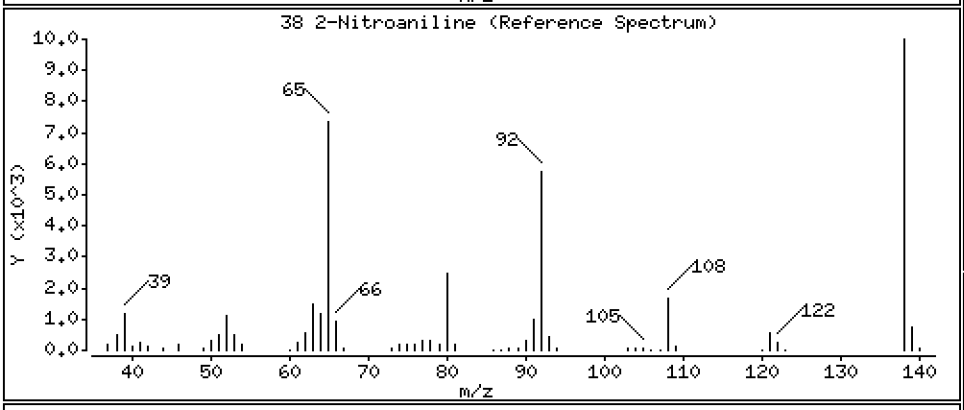
Column diameter: 0.25

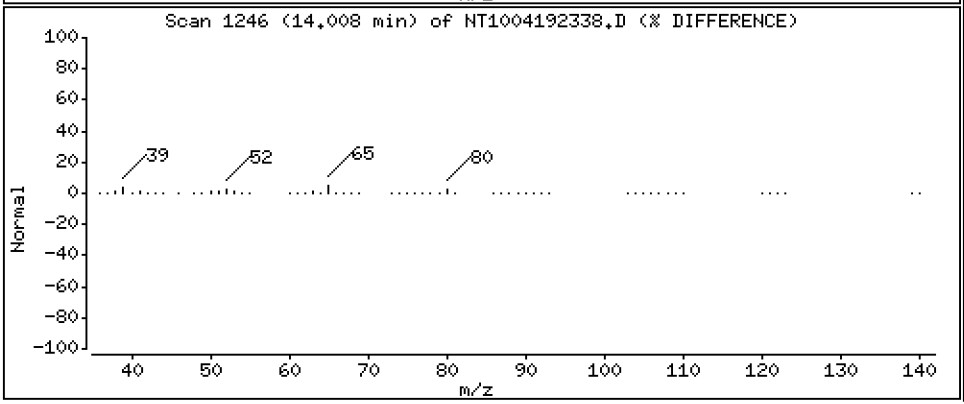
38 2-Nitroaniline

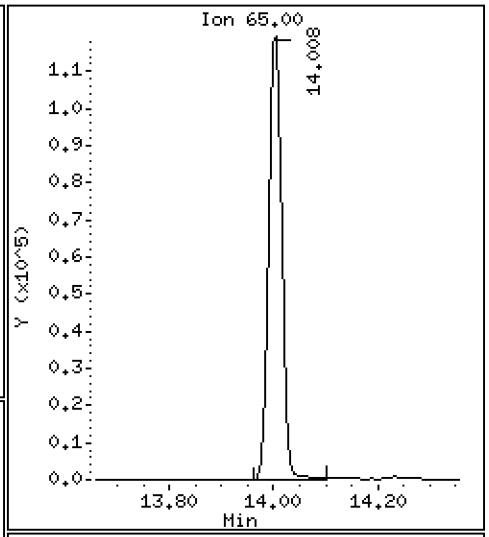
Concentration: 7.806 ug/mL

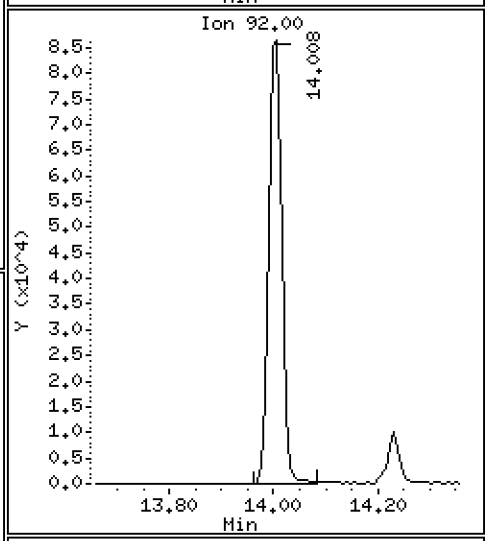


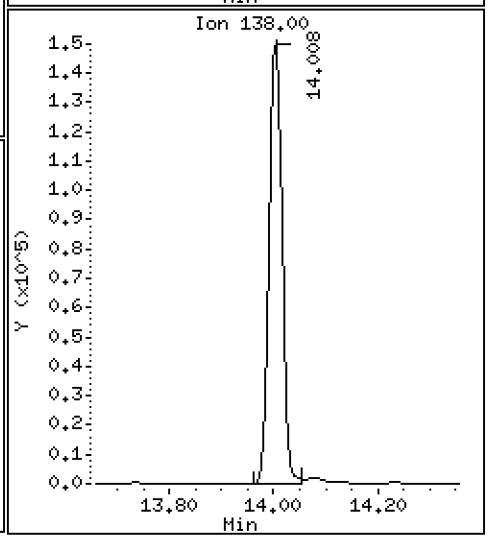












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

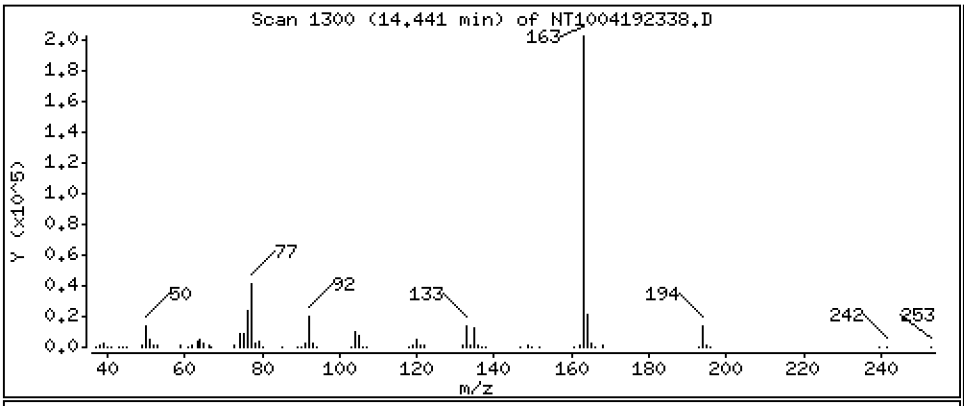
Operator: VTS

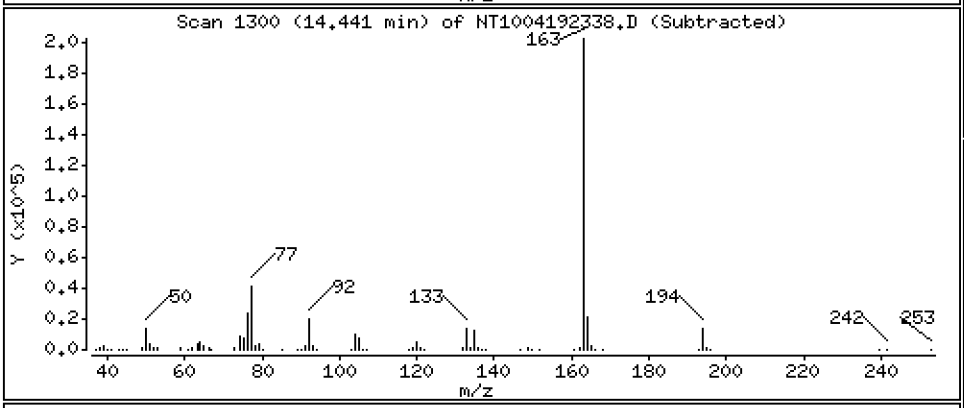
Column phase: ZB-5msi

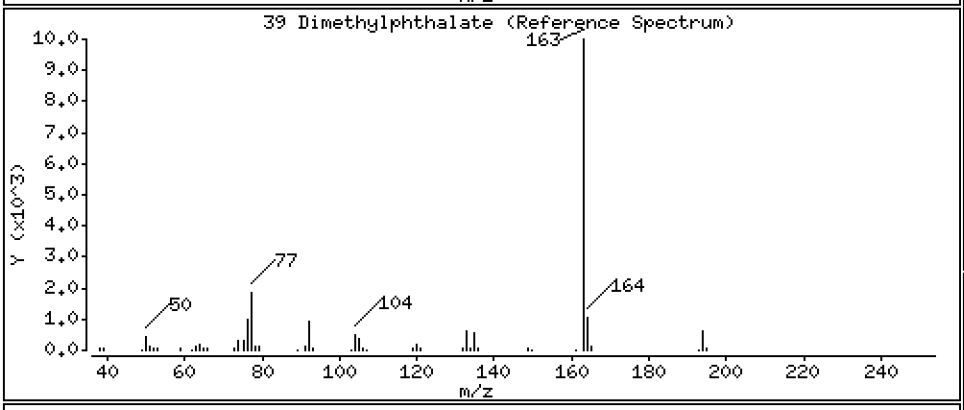
Column diameter: 0.25

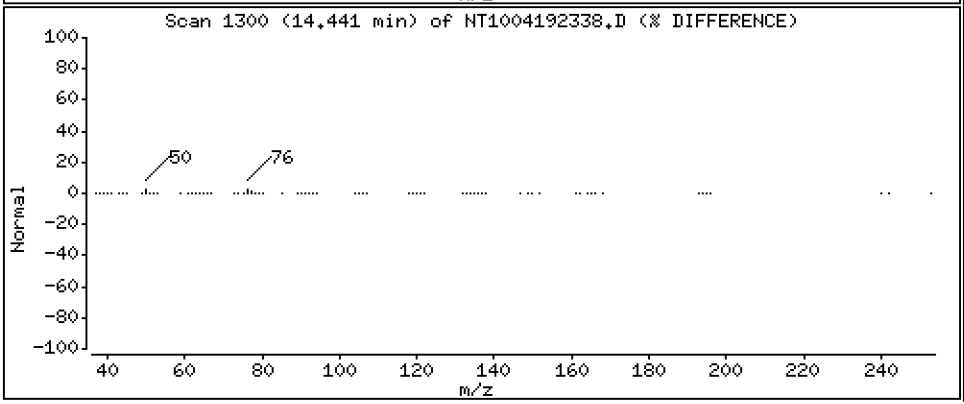
39 Dimethylphthalate

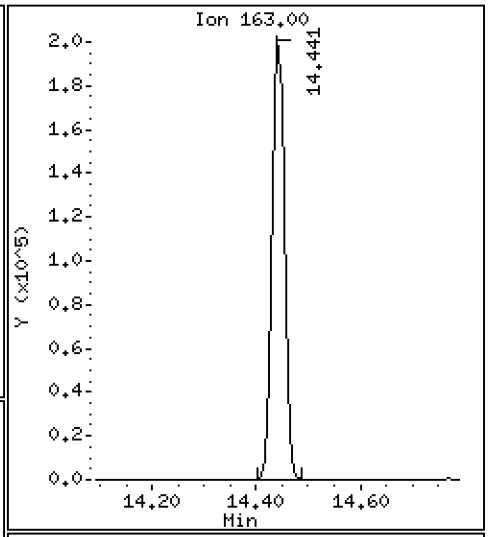
Concentration: 3.375 ug/mL

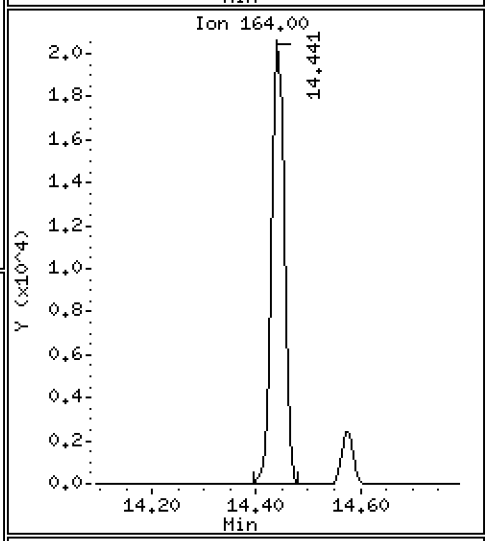


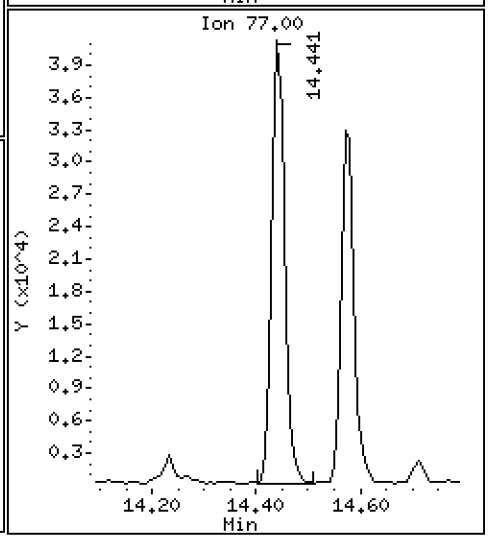












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

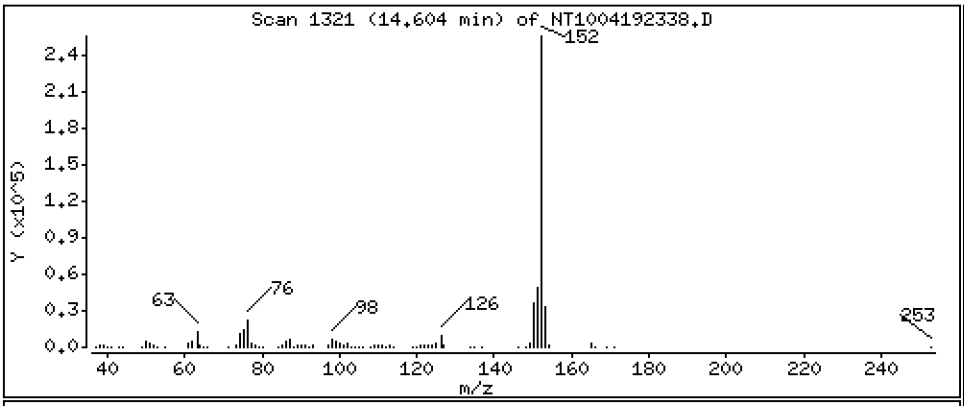
Operator: VTS

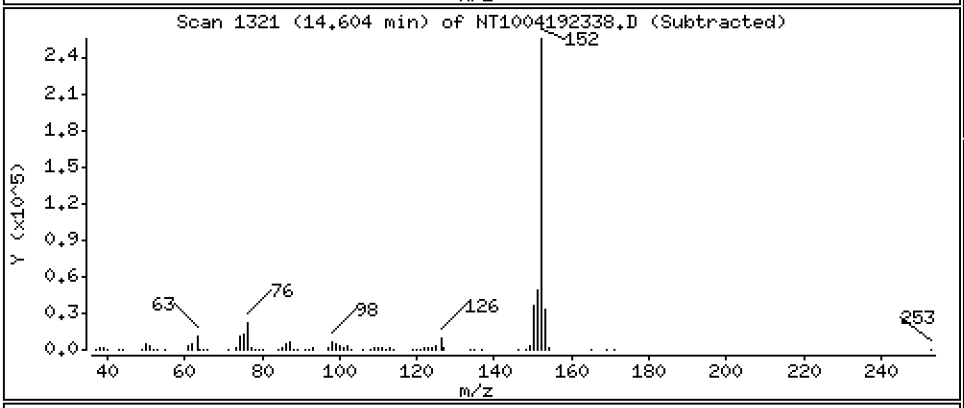
Column phase: ZB-5msi

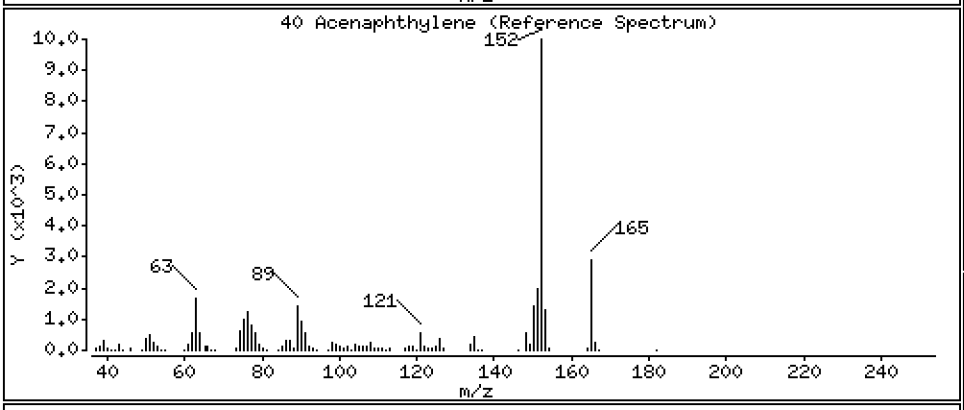
Column diameter: 0.25

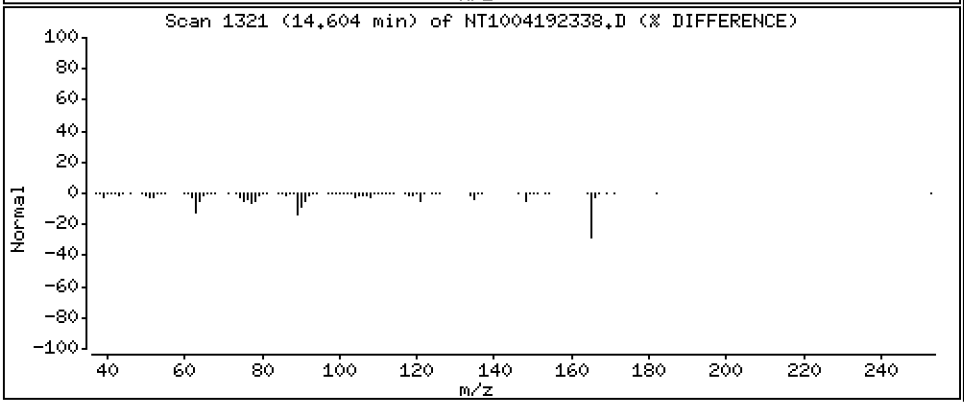
40 Acenaphthylene

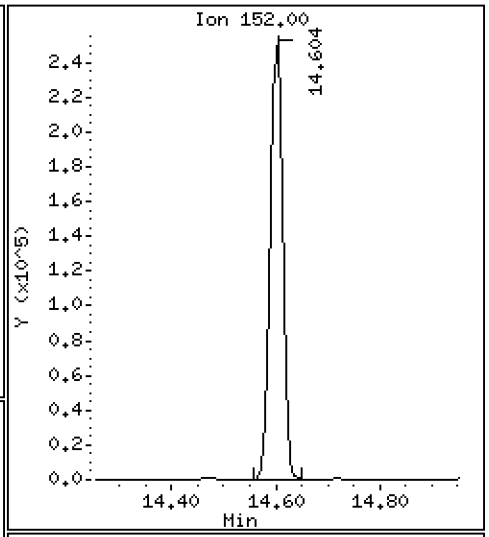
Concentration: 2.787 ug/mL

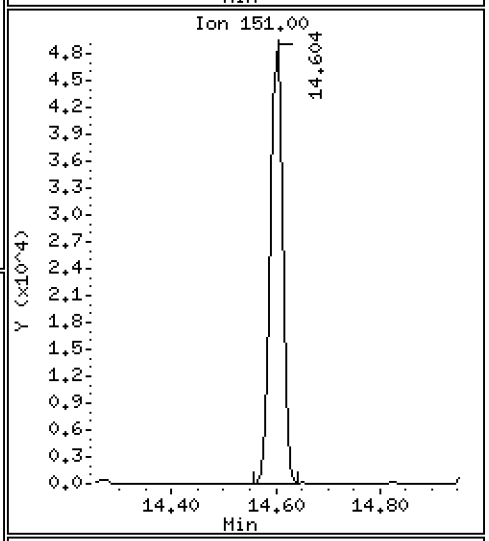


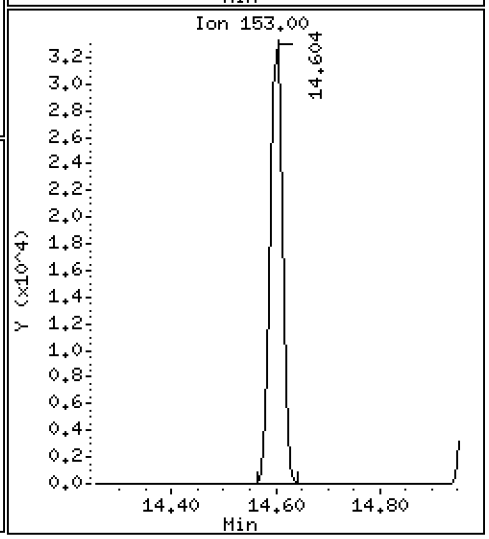












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

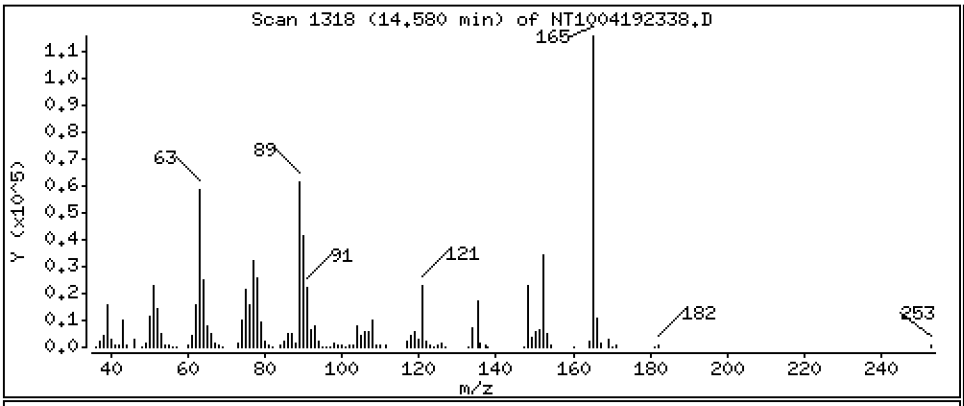
Operator: VTS

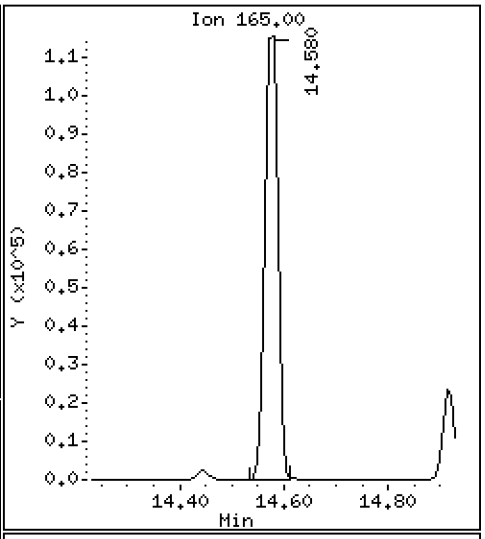
Column phase: ZB-5msi

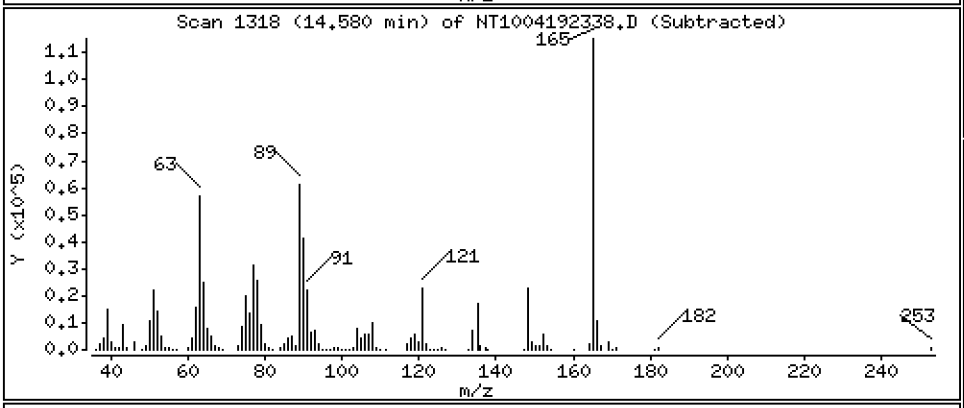
Column diameter: 0.25

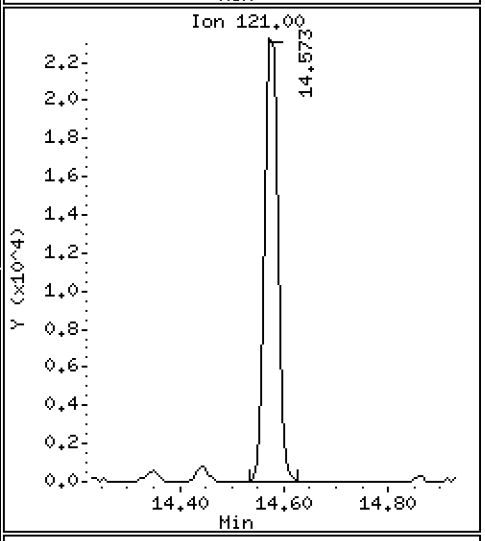
41 2,6-Dinitrotoluene

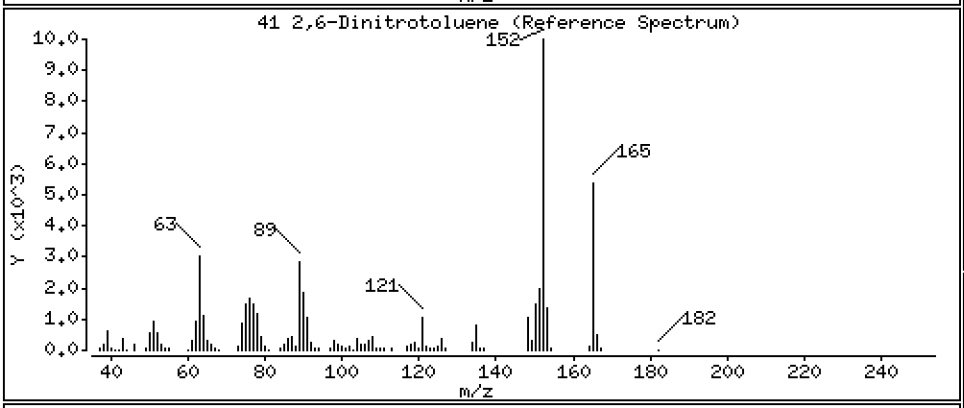
Concentration: 9.529 ug/mL

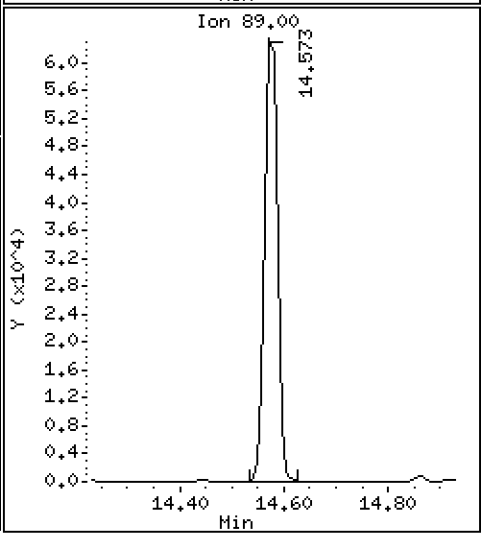


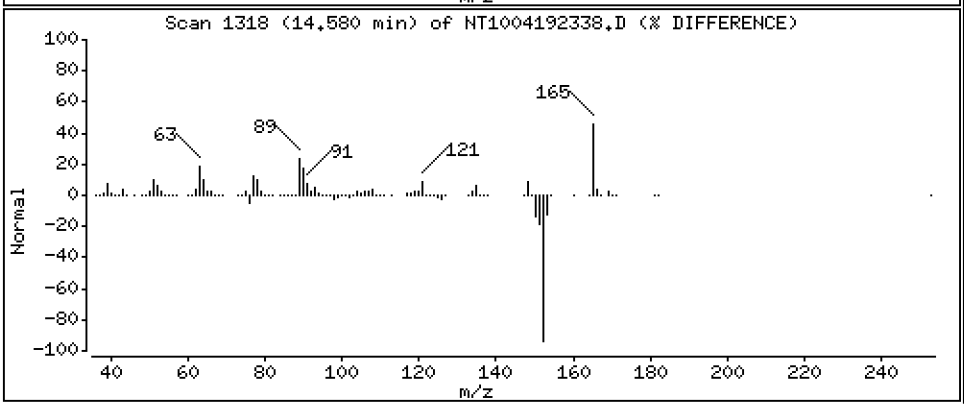












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

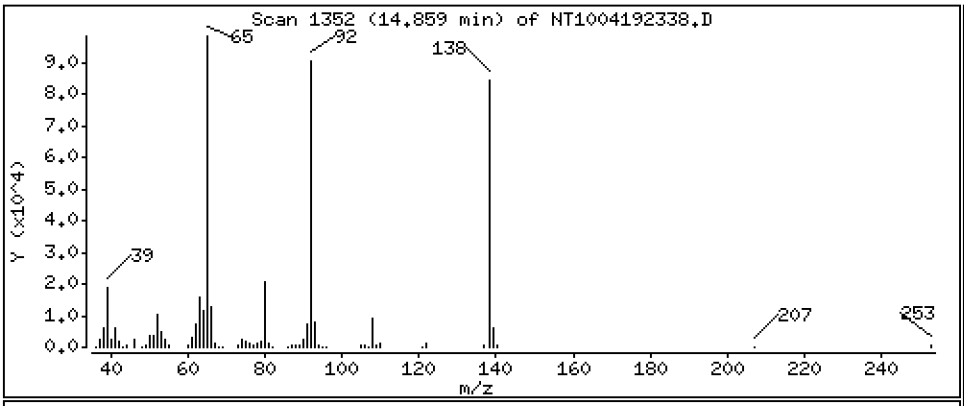
Operator: VTS

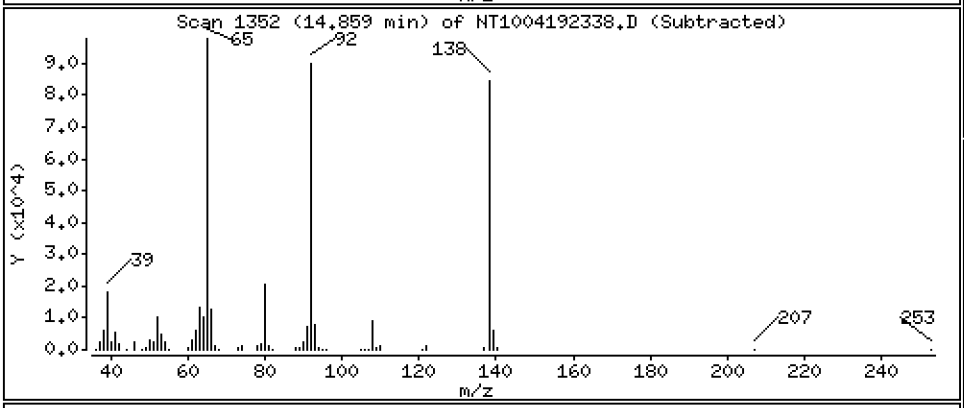
Column phase: ZB-5msi

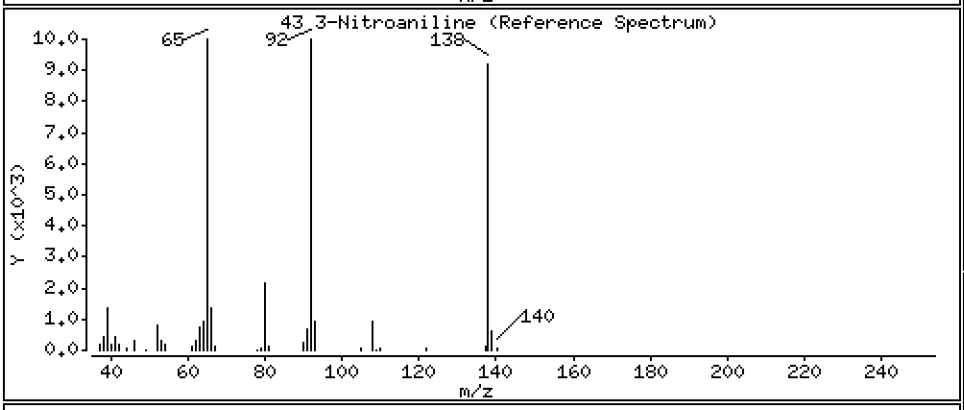
Column diameter: 0.25

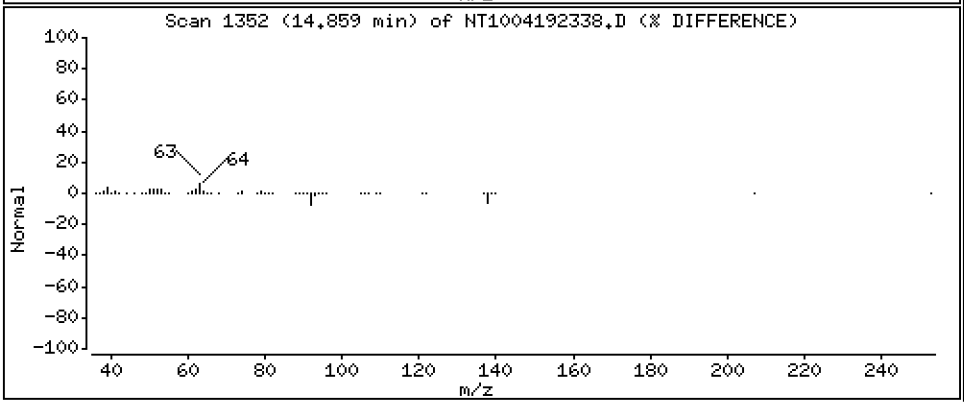
43 3-Nitroaniline

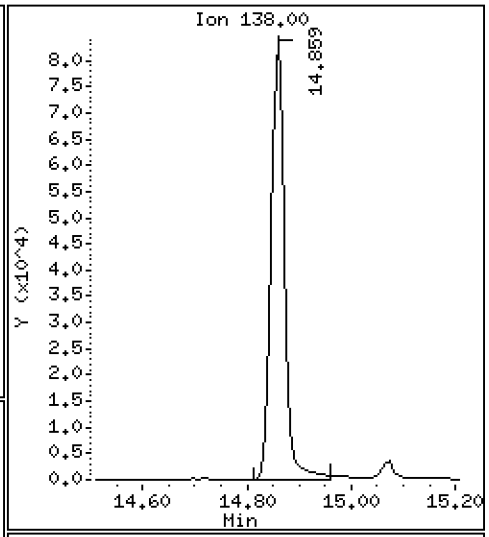
Concentration: 6.312 ug/mL

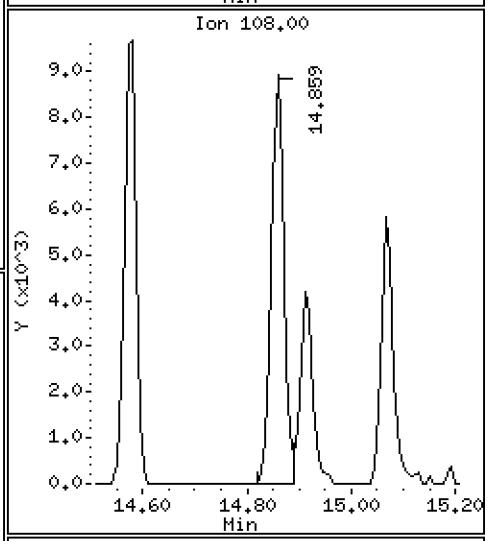


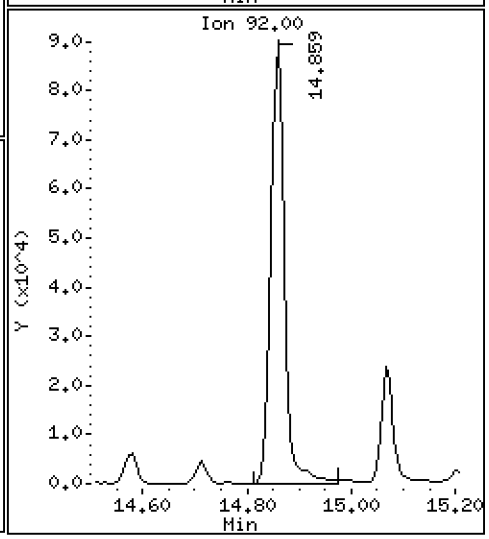












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

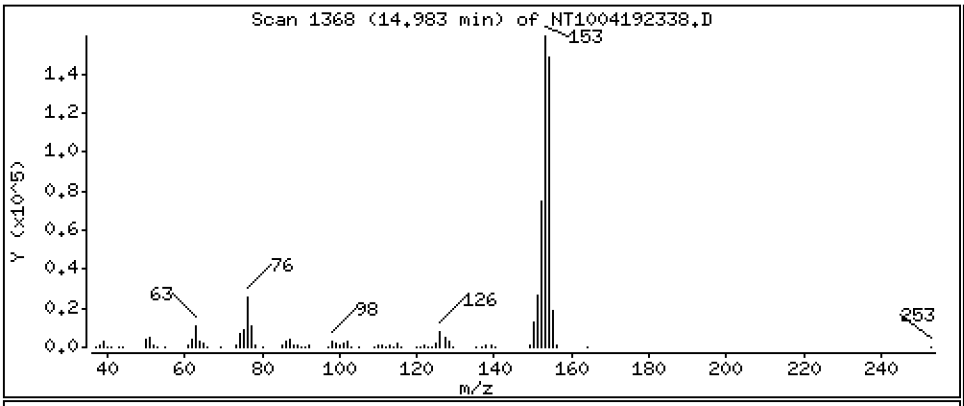
Operator: VTS

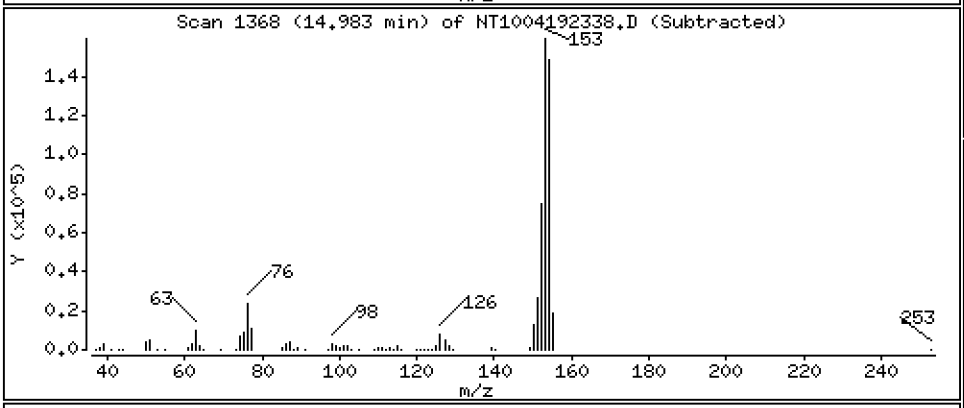
Column phase: ZB-5msi

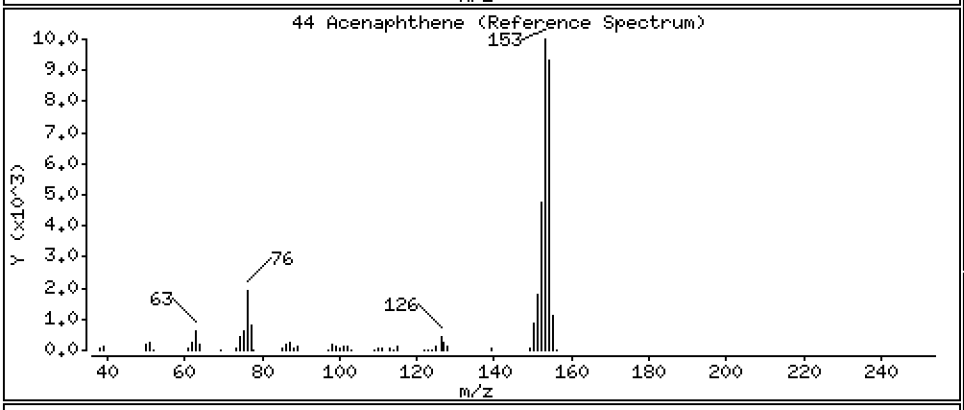
Column diameter: 0.25

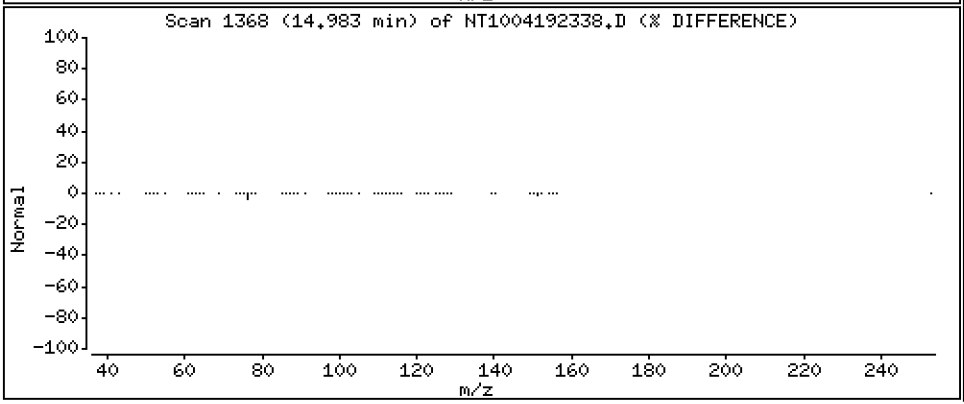
44 Acenaphthene

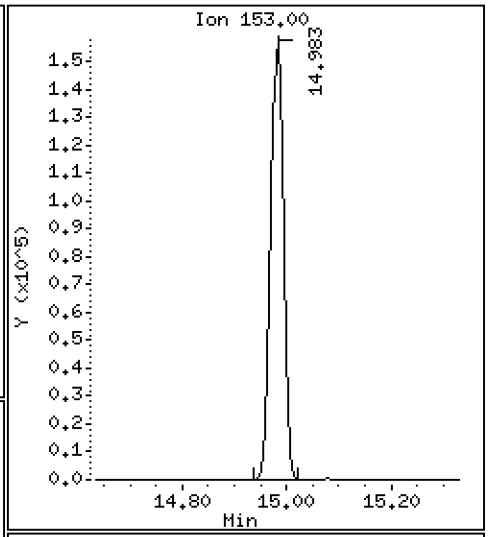
Concentration: 2.924 ug/mL

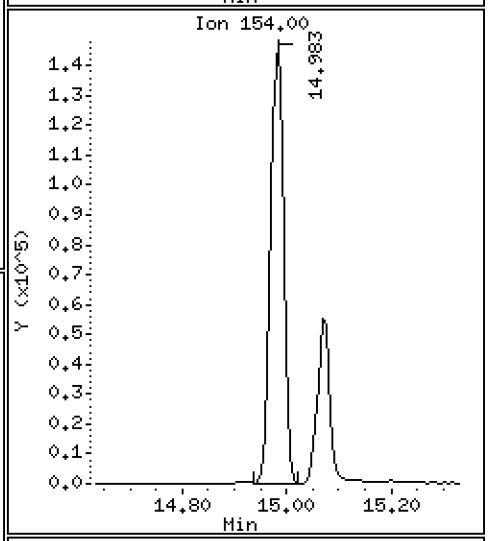


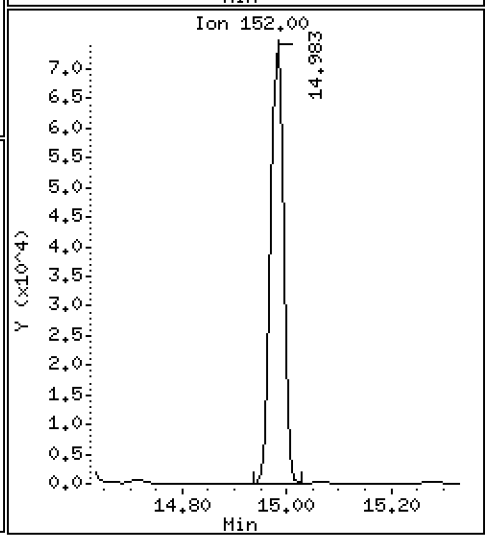












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

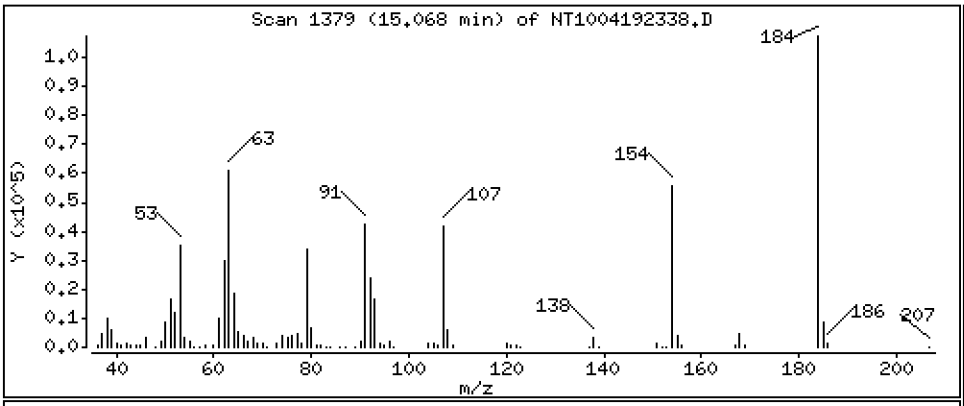
Operator: VTS

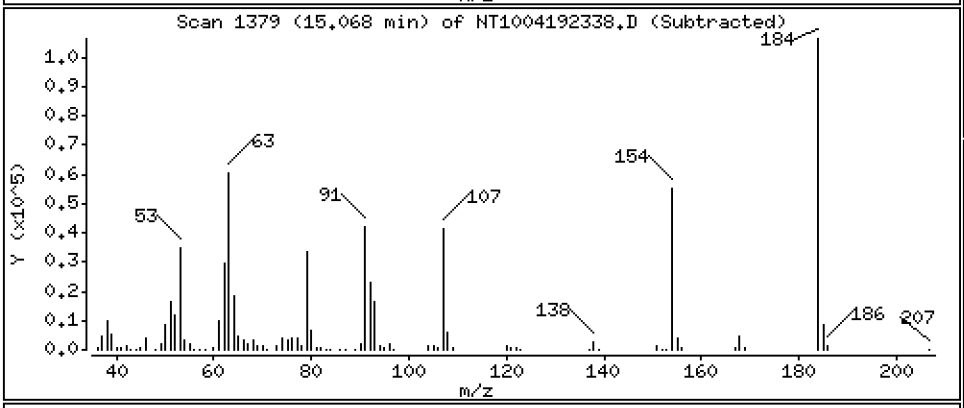
Column phase: ZB-5msi

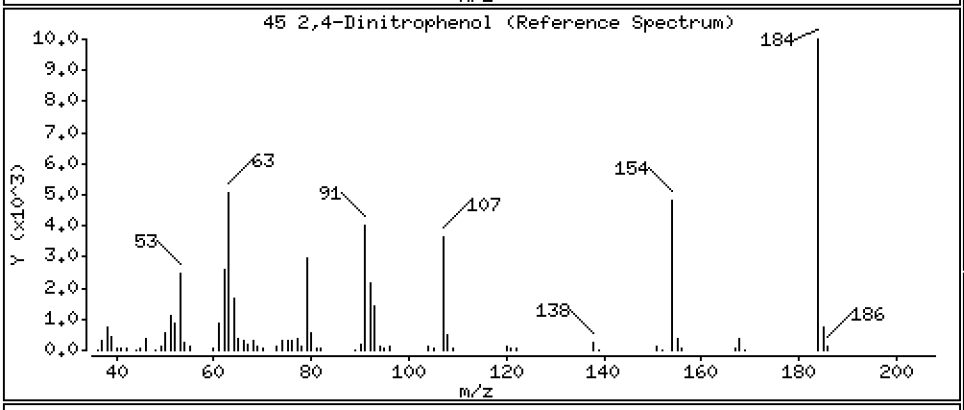
Column diameter: 0.25

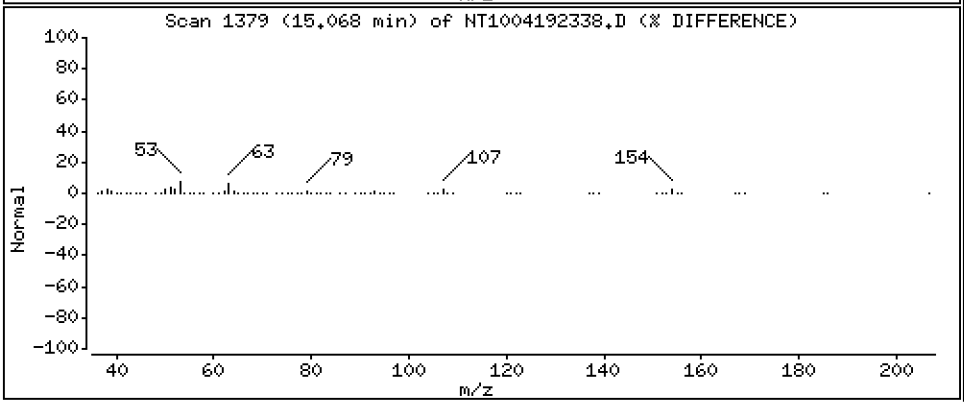
45 2,4-Dinitrophenol

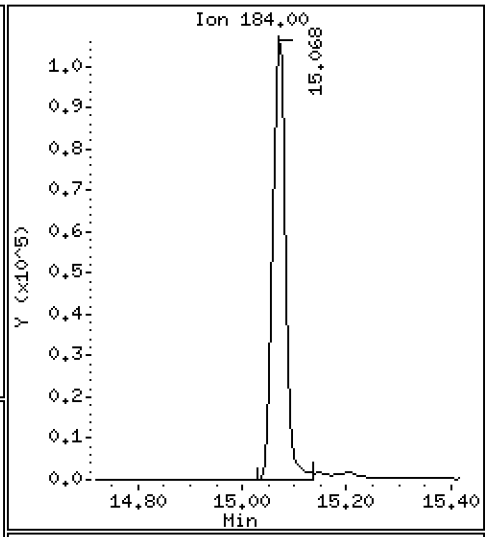
Concentration: 14.01 ug/mL

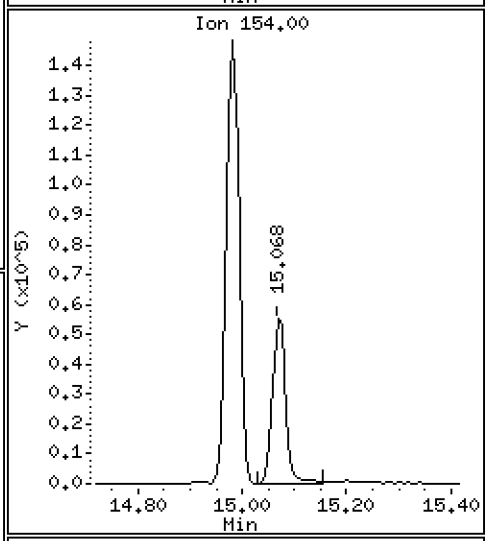


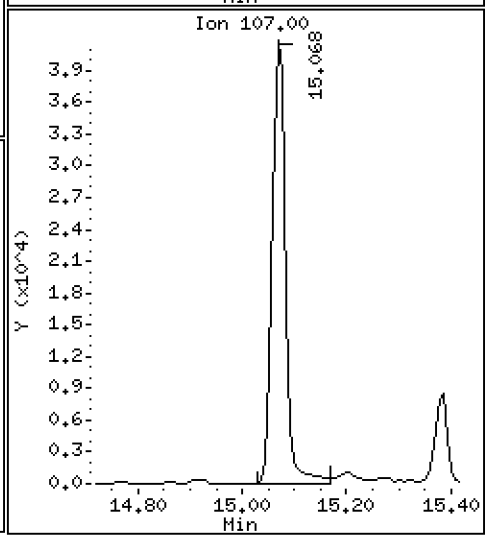












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192338.D

Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

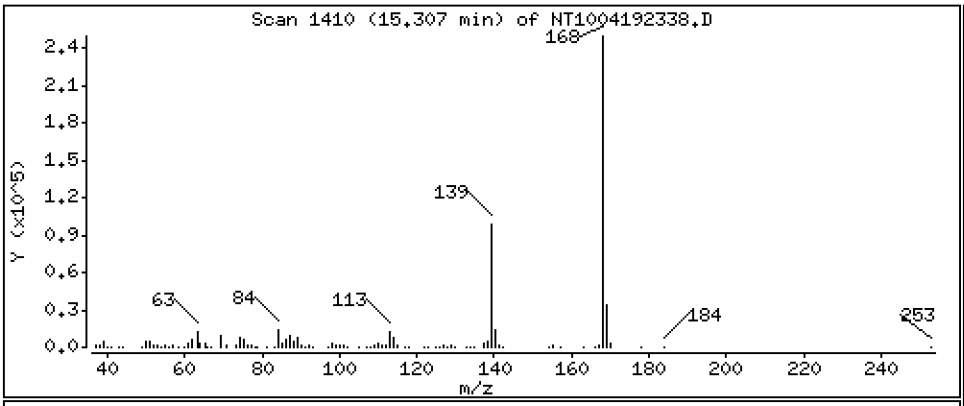
Operator: VTS

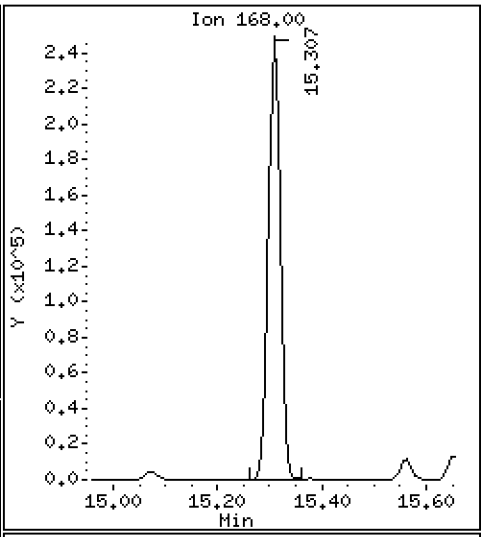
Column phase: ZB-5msi

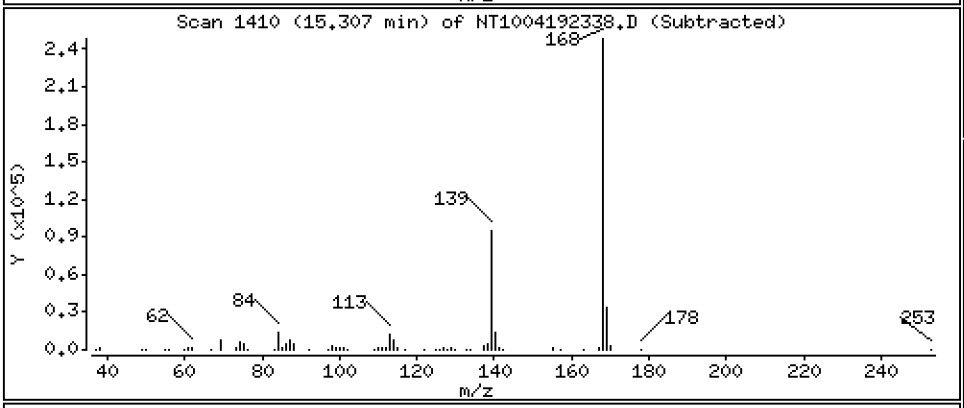
Column diameter: 0.25

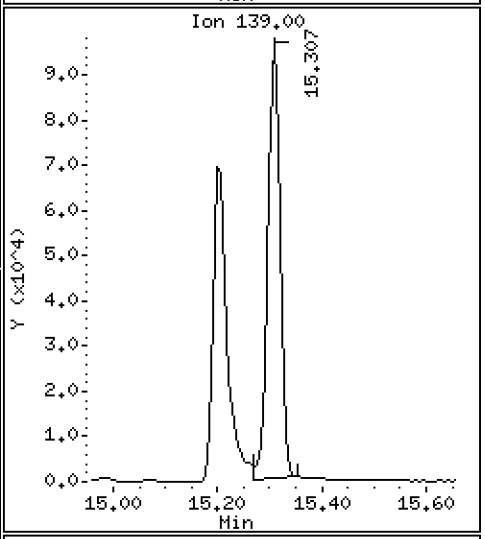
46 Dibenzofuran

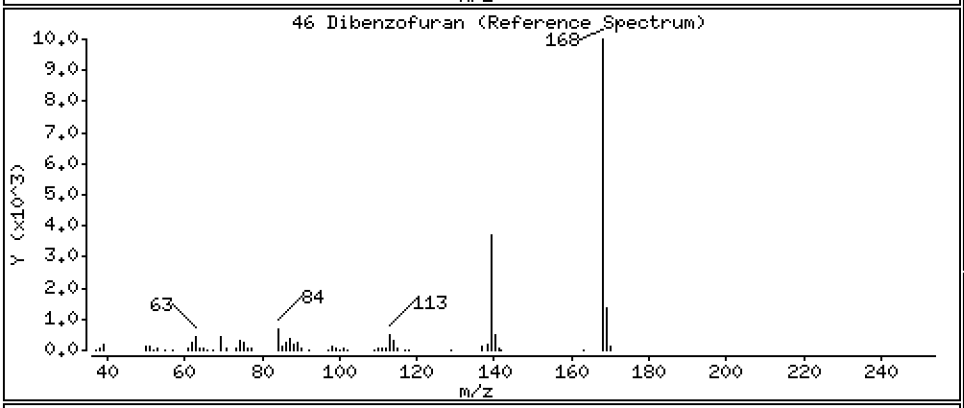
Concentration: 2.904 ug/mL

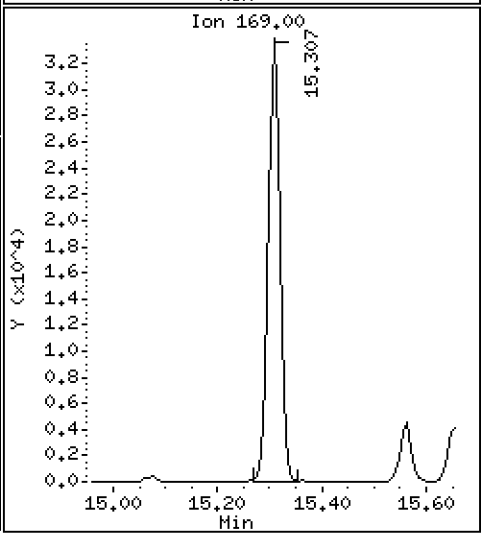


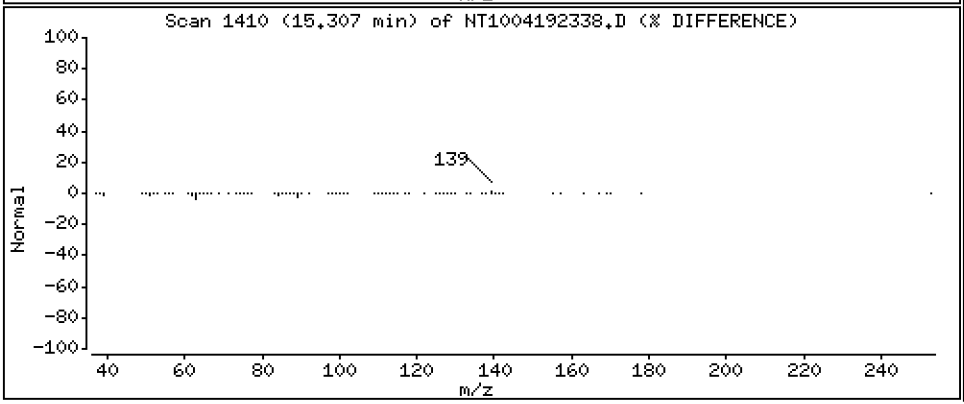












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

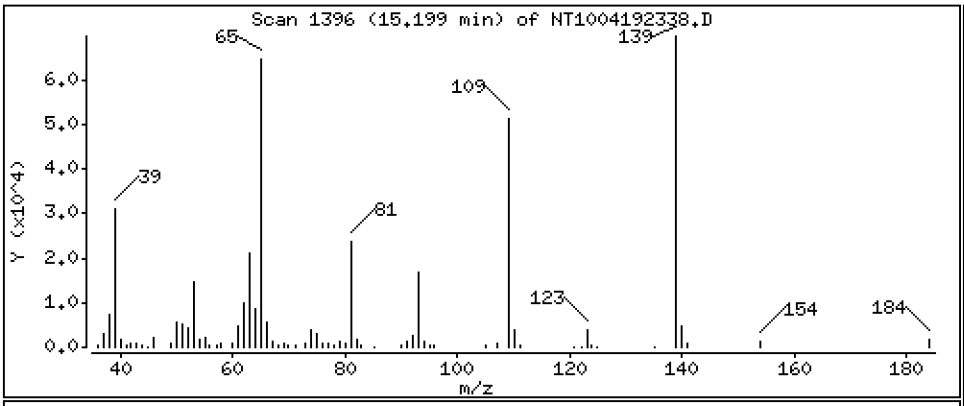
Operator: VTS

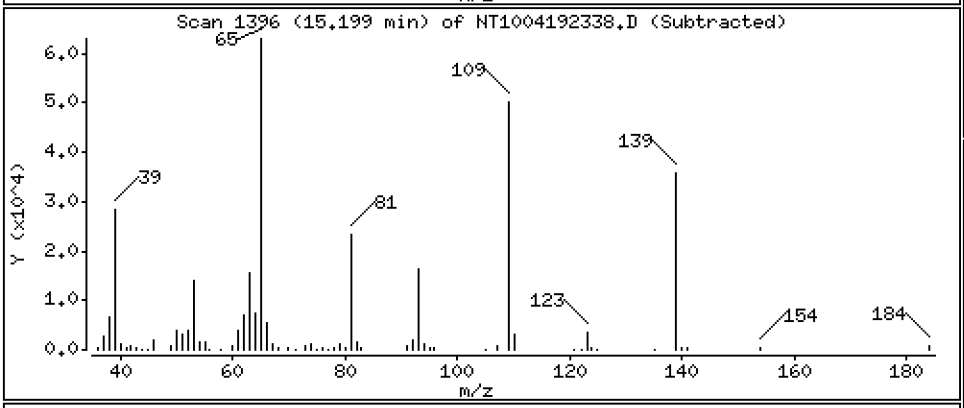
Column phase: ZB-5msi

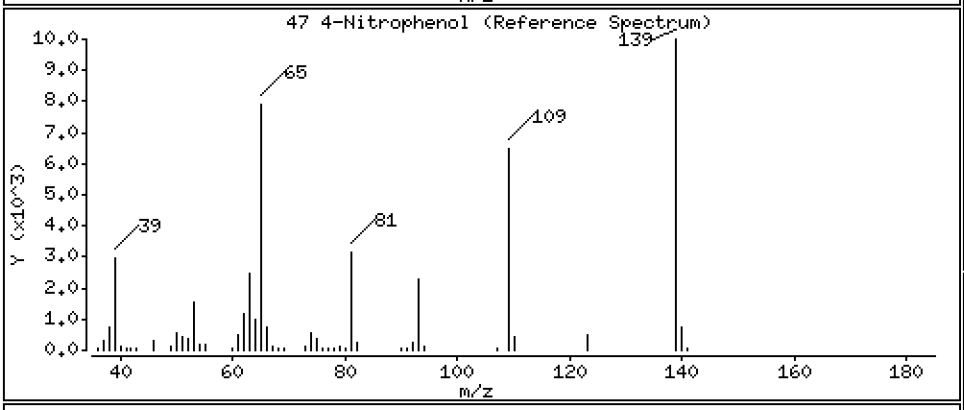
Column diameter: 0.25

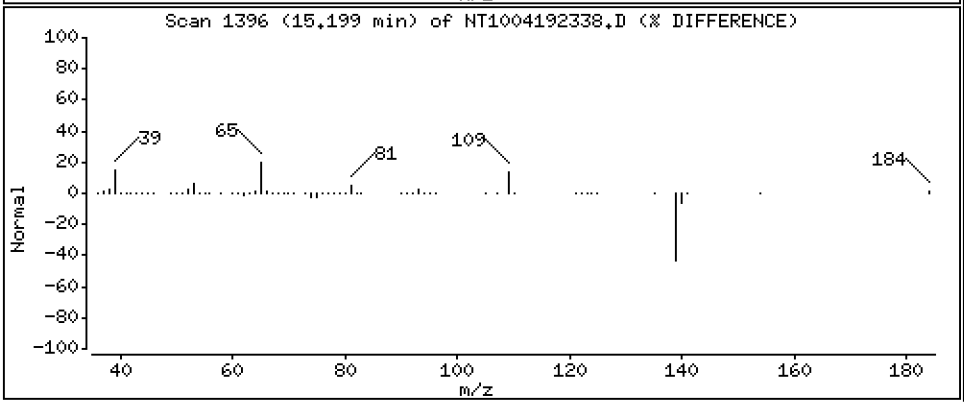
47 4-Nitrophenol

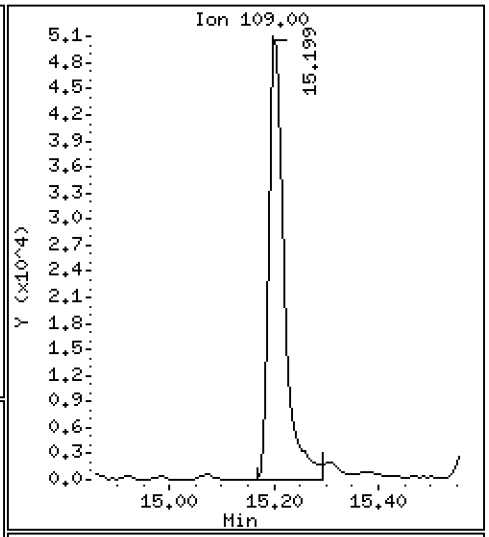
Concentration: 7.190 ug/mL

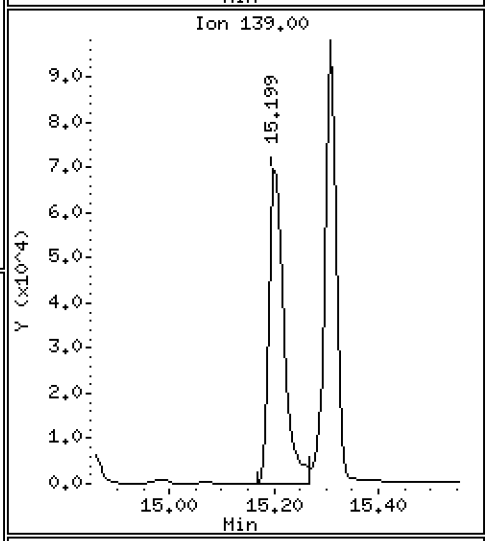


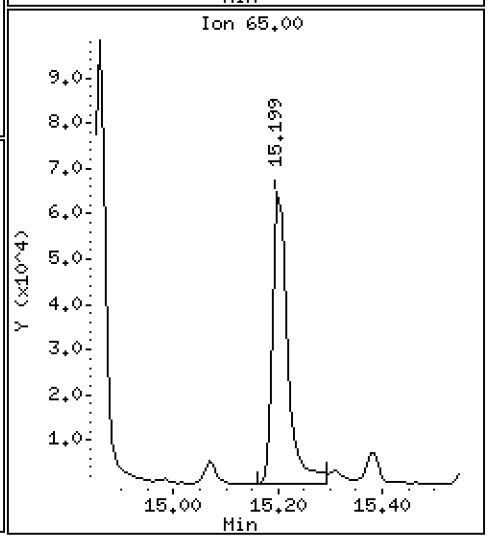












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

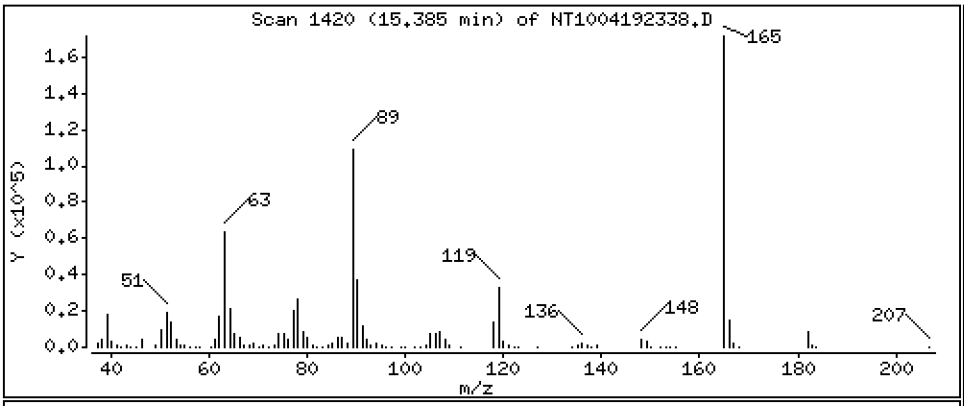
Operator: VTS

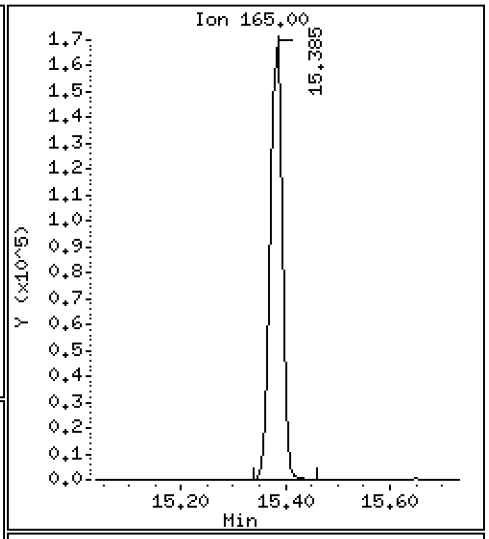
Column phase: ZB-5msi

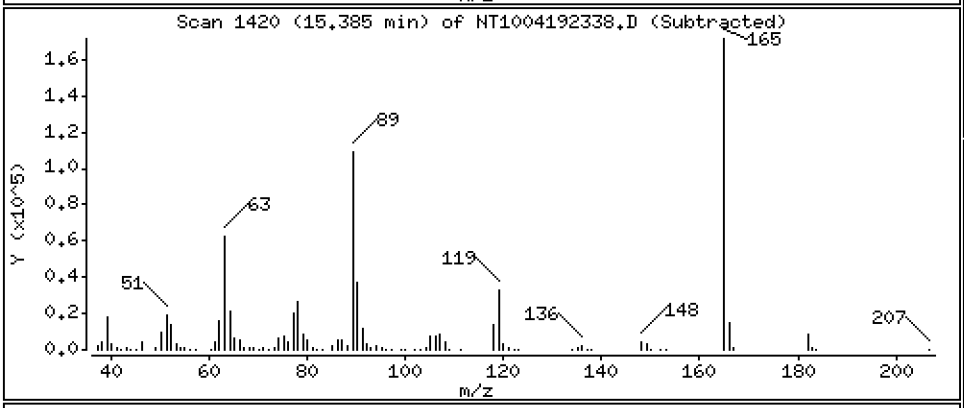
Column diameter: 0.25

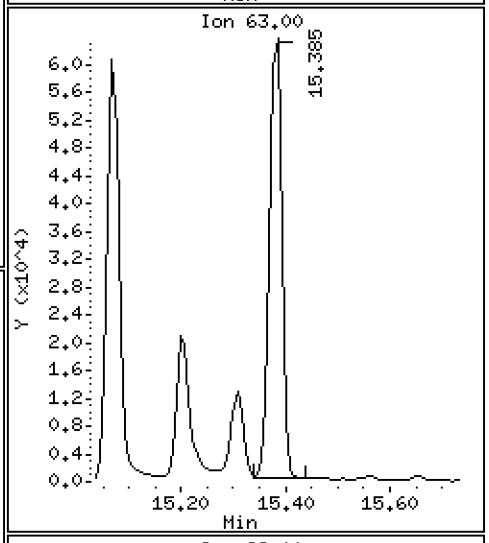
48 2,4-Dinitrotoluene

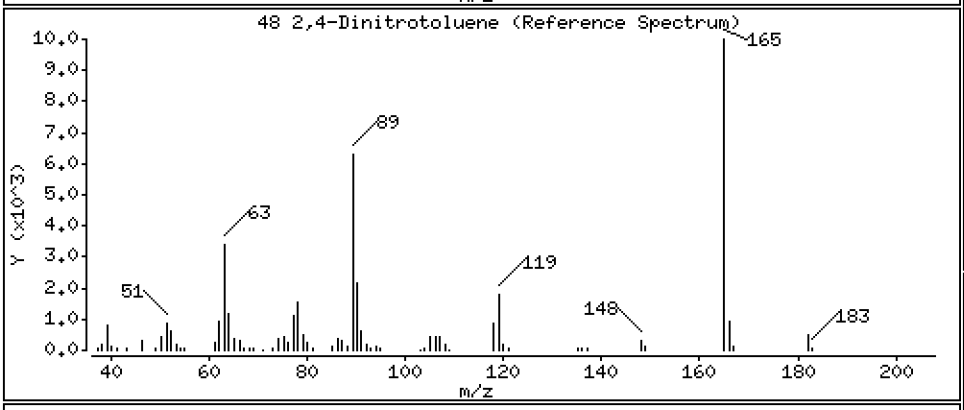
Concentration: 8.569 ug/mL

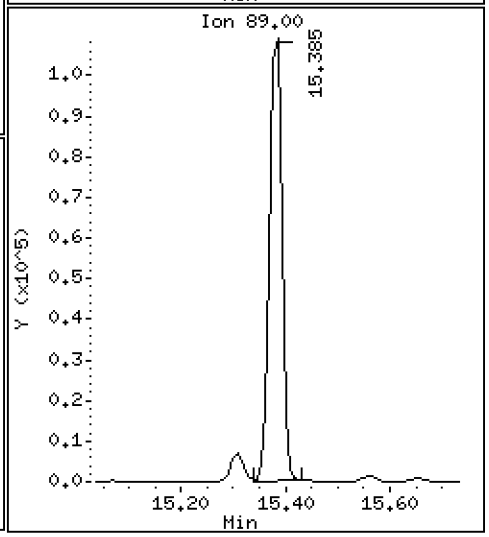


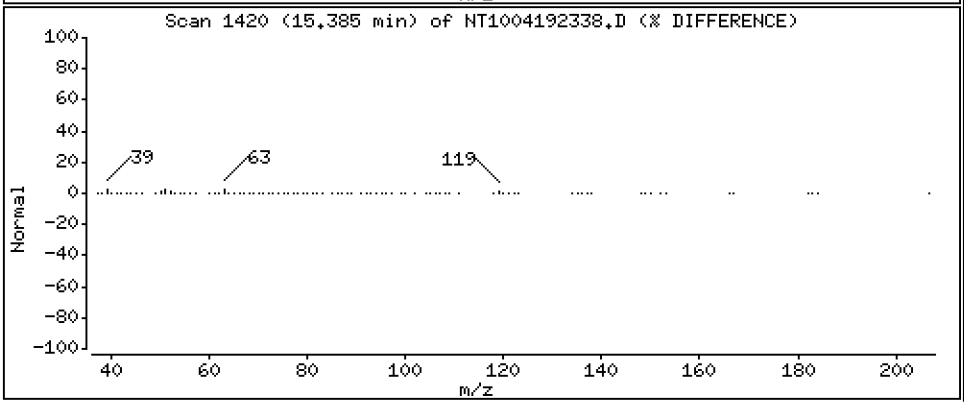












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

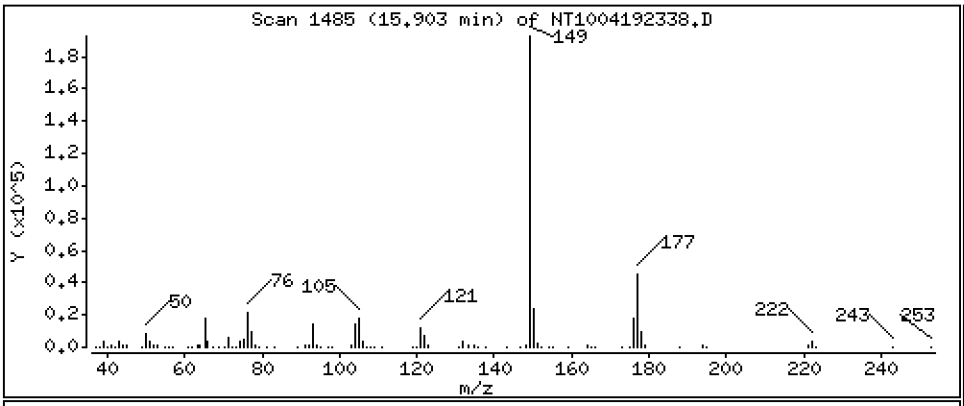
Operator: VTS

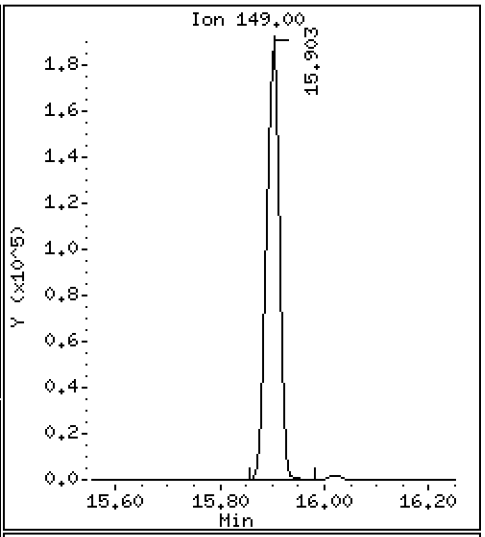
Column phase: ZB-5msi

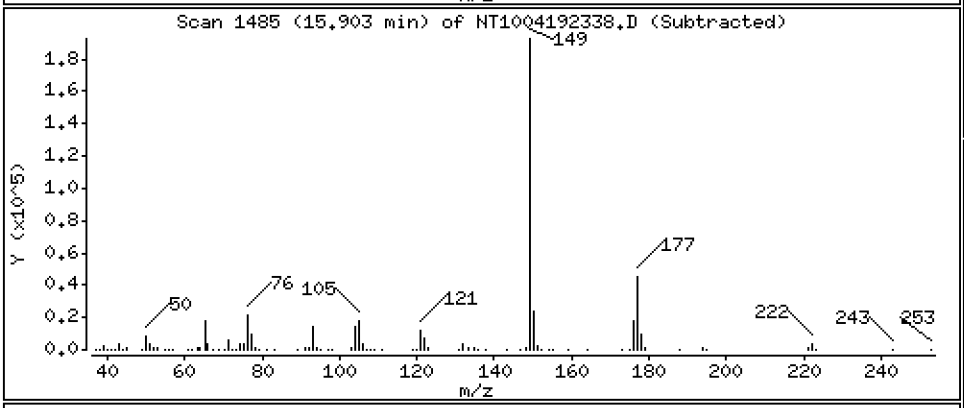
Column diameter: 0.25

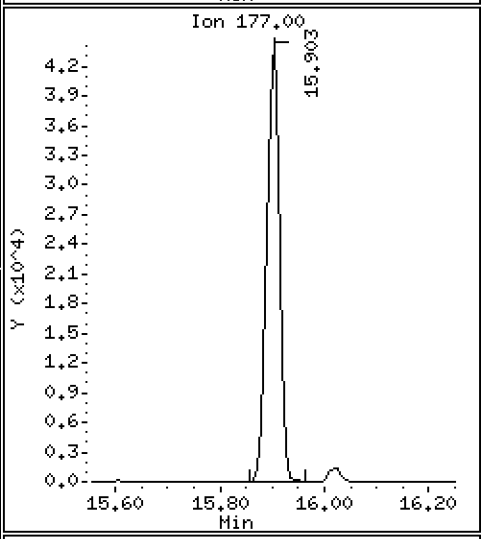
50 Diethylphthalate

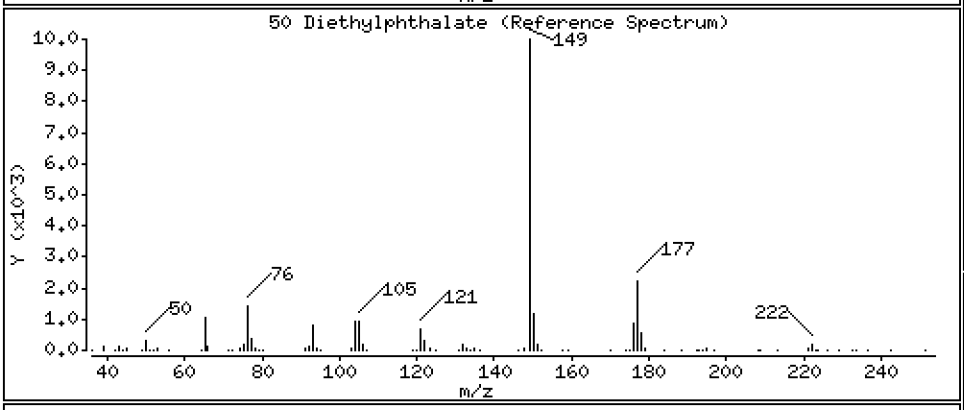
Concentration: 3.979 ug/mL

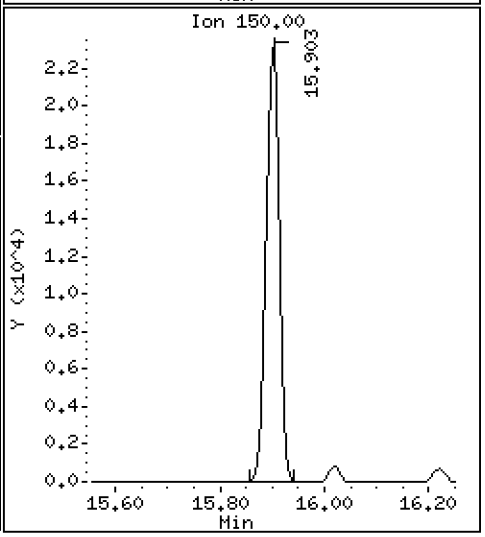


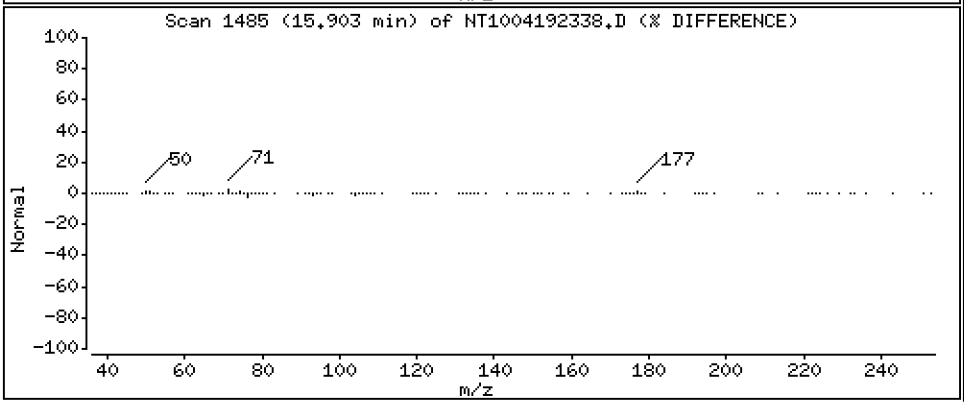












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

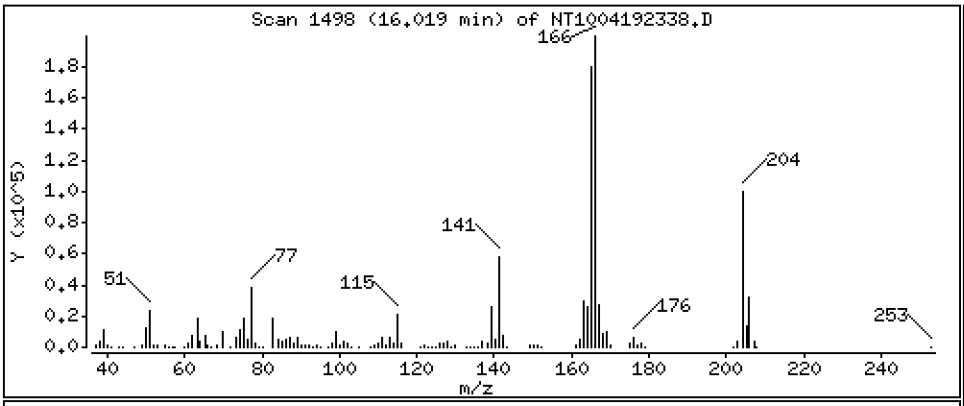
Operator: VTS

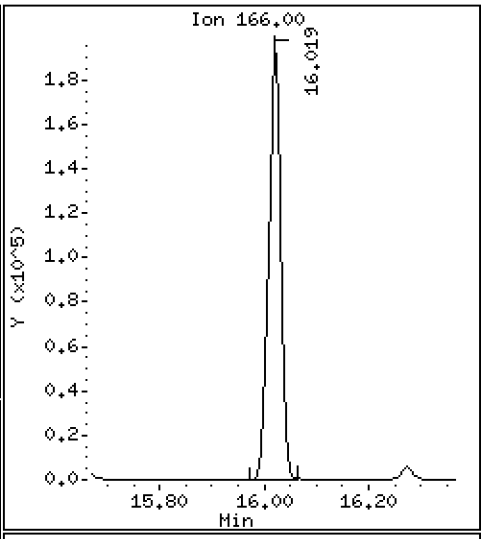
Column phase: ZB-5msi

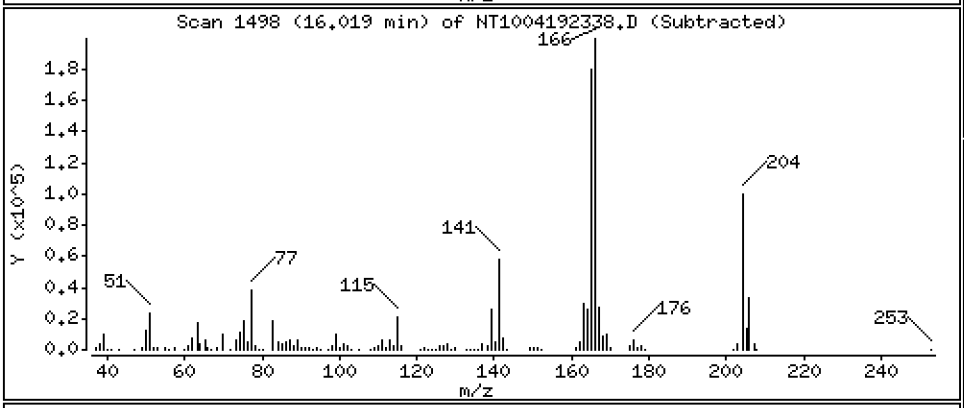
Column diameter: 0.25

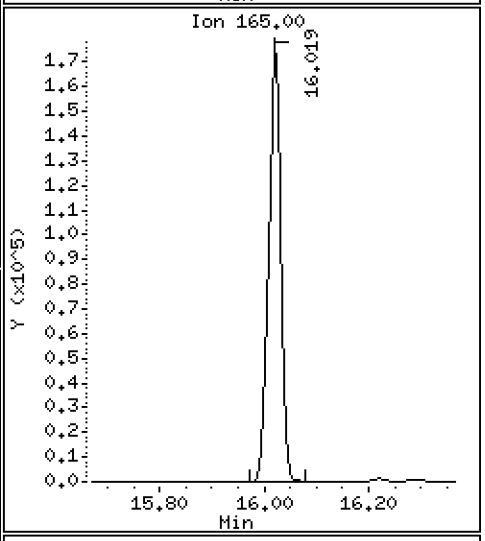
49 Fluorene

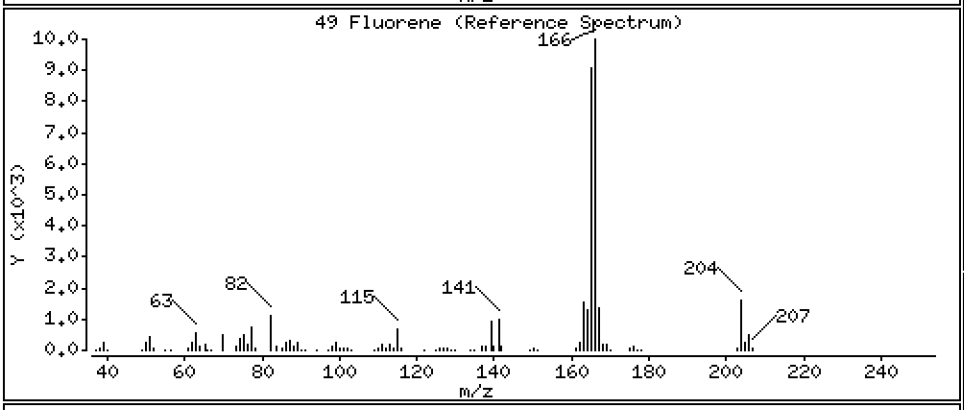
Concentration: 3.027 ug/mL

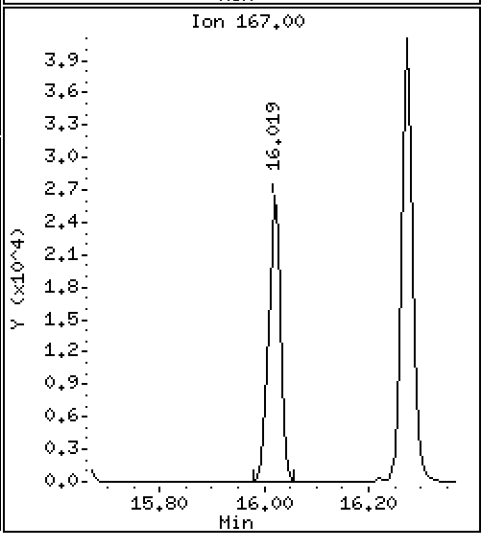


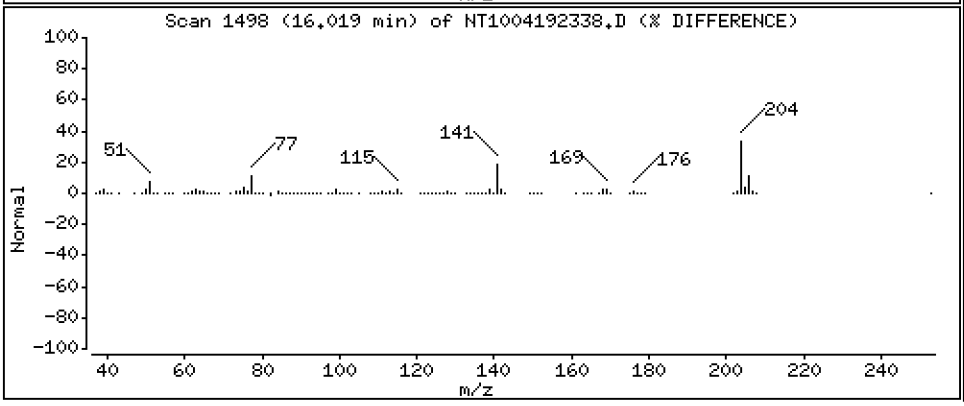












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

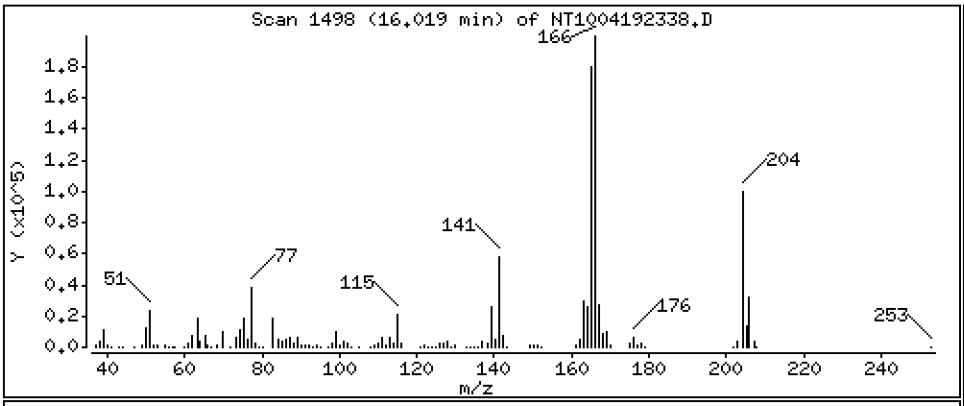
Operator: VTS

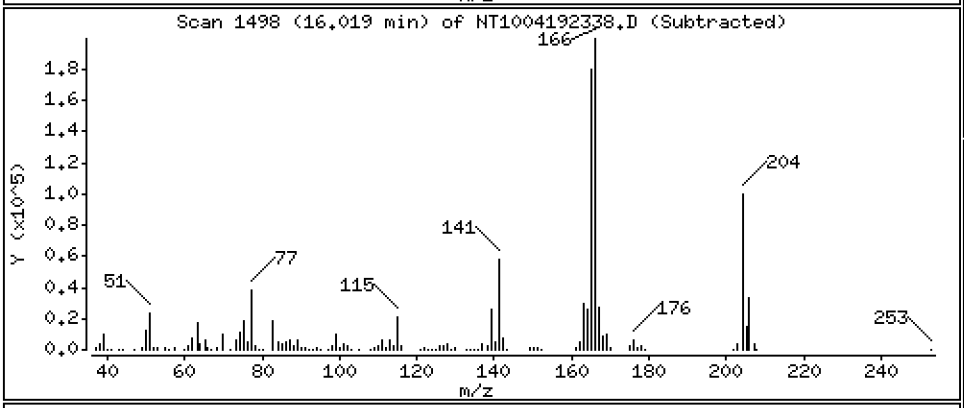
Column phase: ZB-5msi

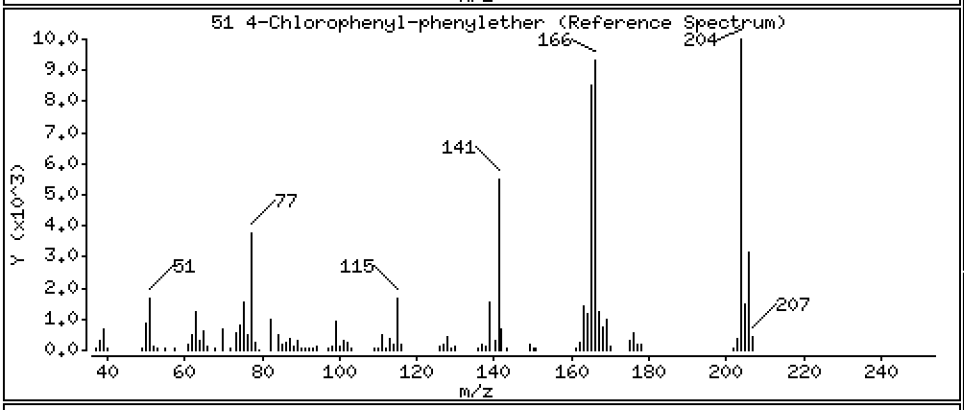
Column diameter: 0.25

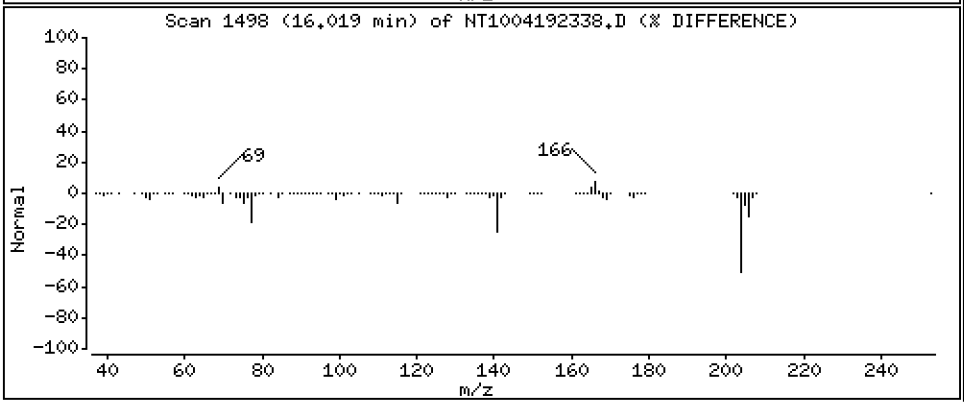
51 4-Chlorophenyl-phenylether

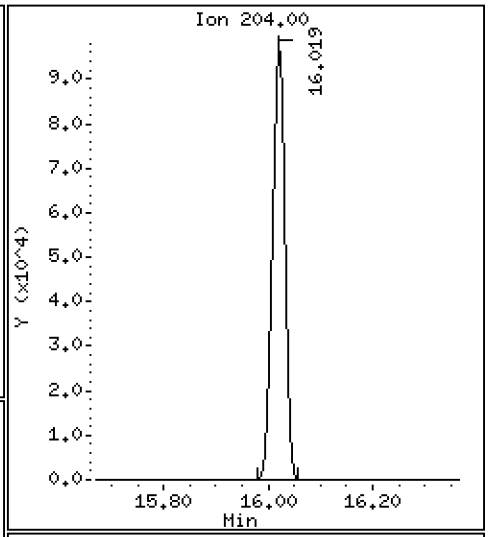
Concentration: 3.294 ug/mL

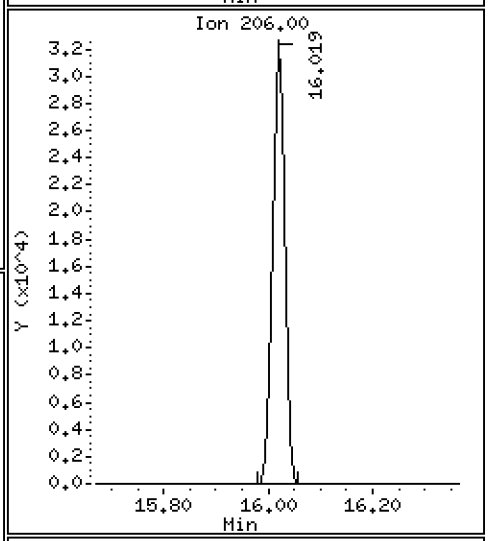


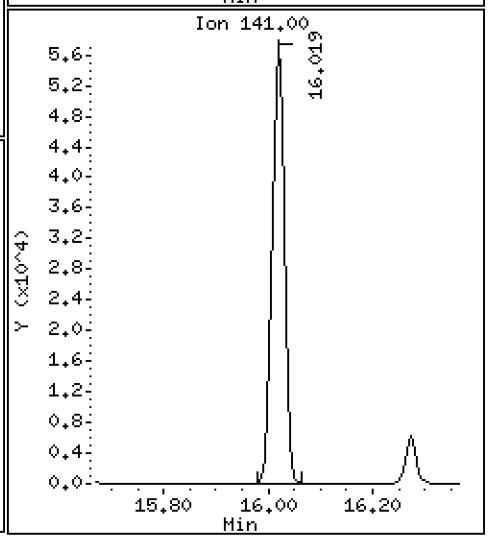












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

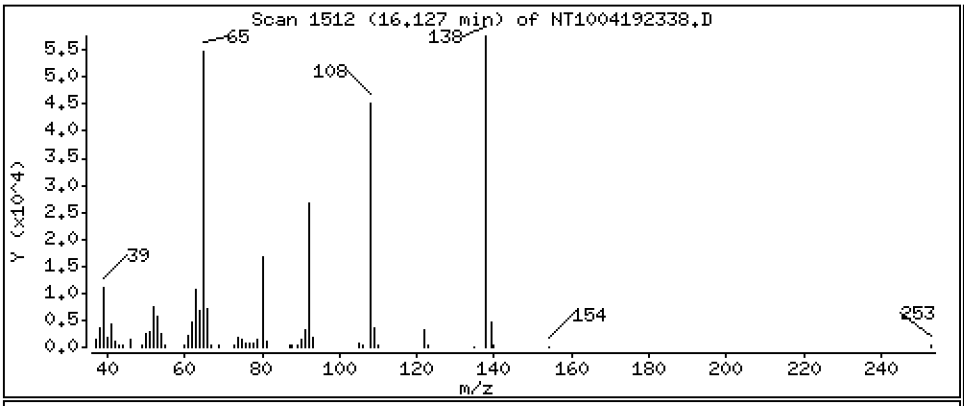
Operator: VTS

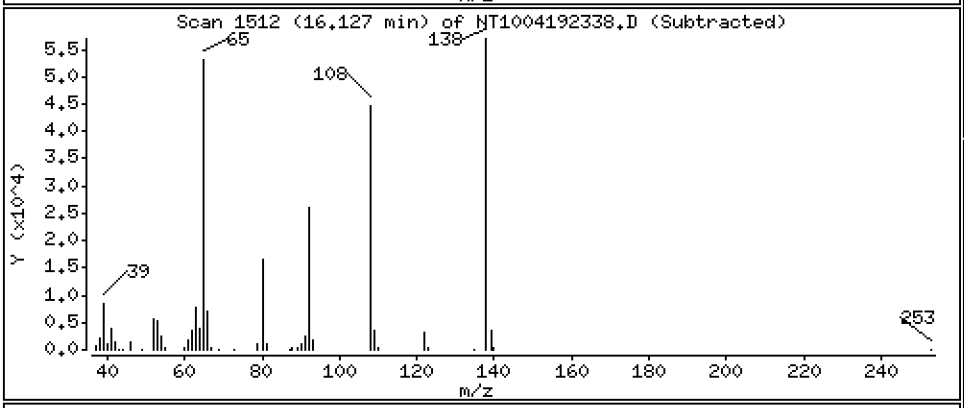
Column phase: ZB-5msi

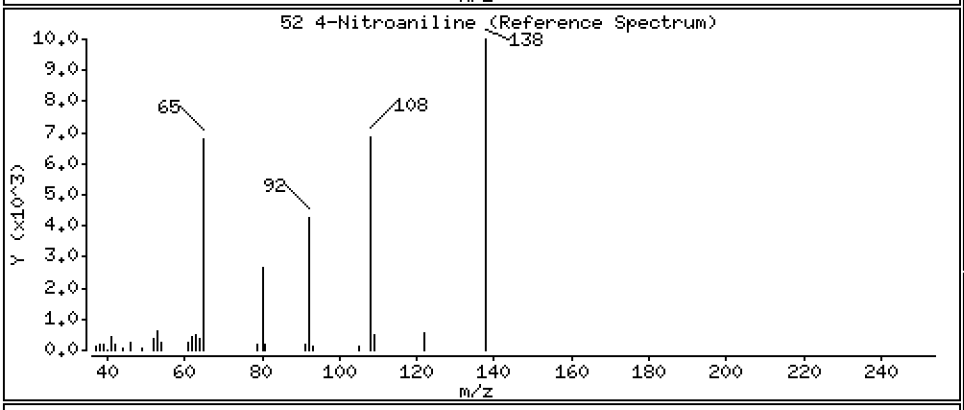
Column diameter: 0.25

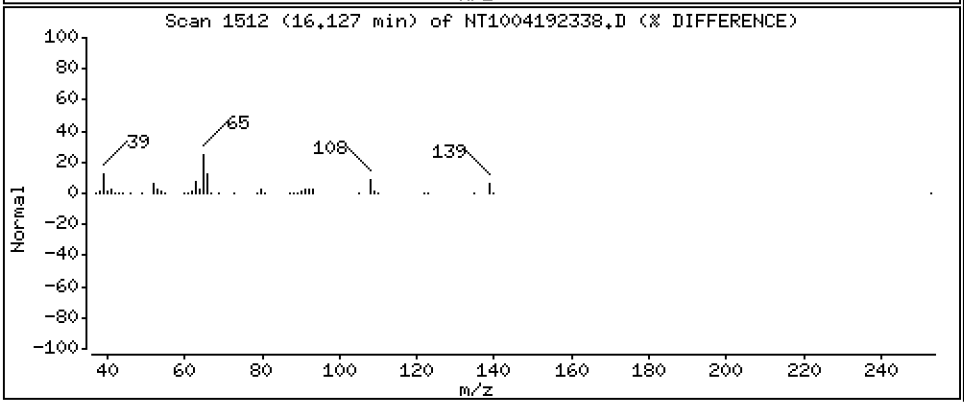
52 4-Nitroaniline

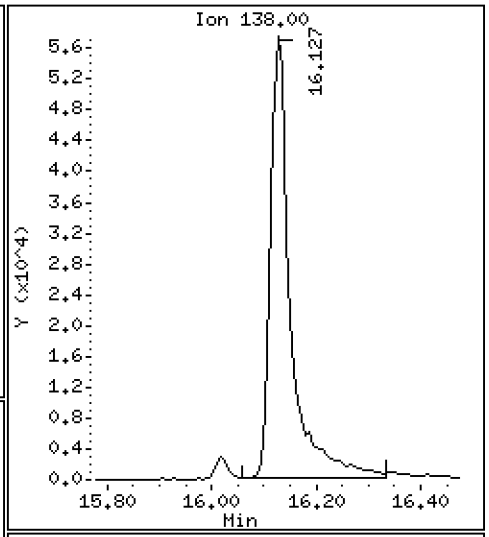
Concentration: 7.350 ug/mL

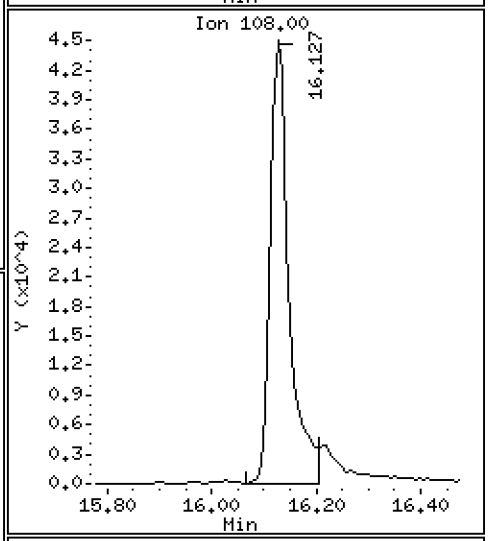


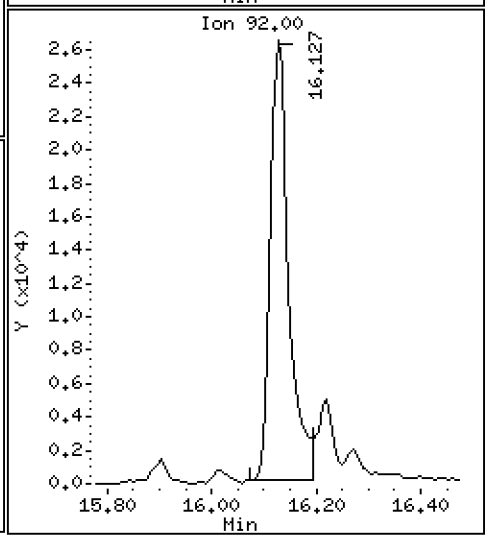












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192338.D

Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

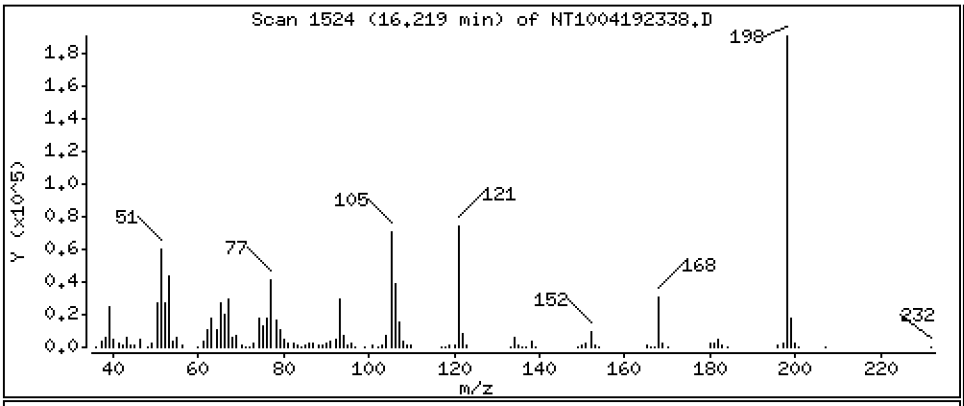
Operator: VTS

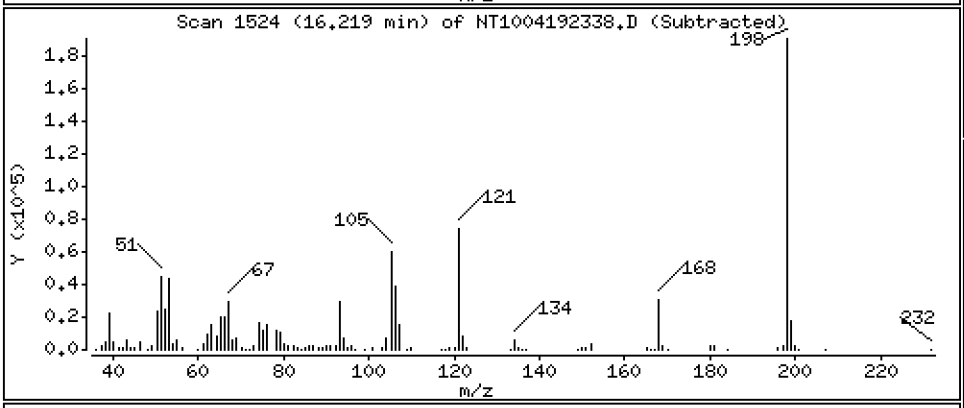
Column phase: ZB-5msi

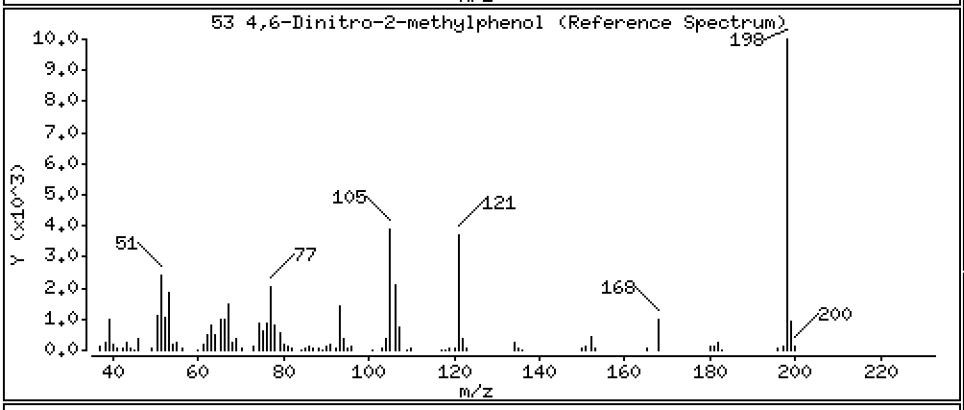
Column diameter: 0.25

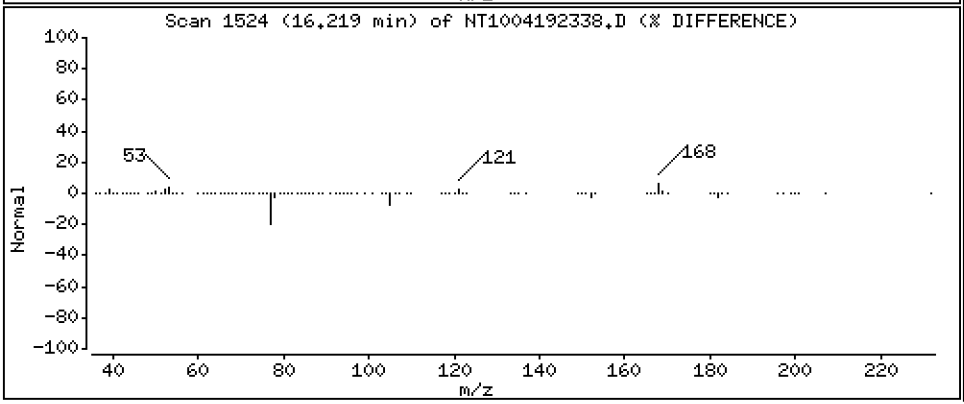
53 4,6-Dinitro-2-methylphenol

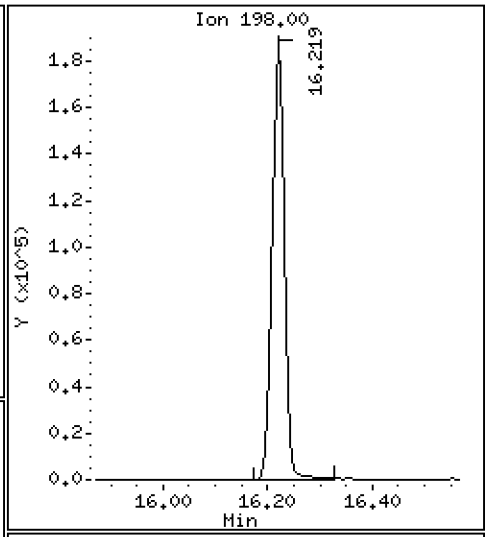
Concentration: 18.71 ug/mL

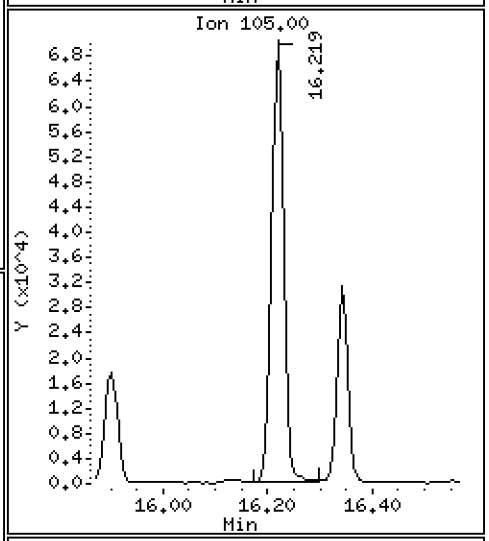


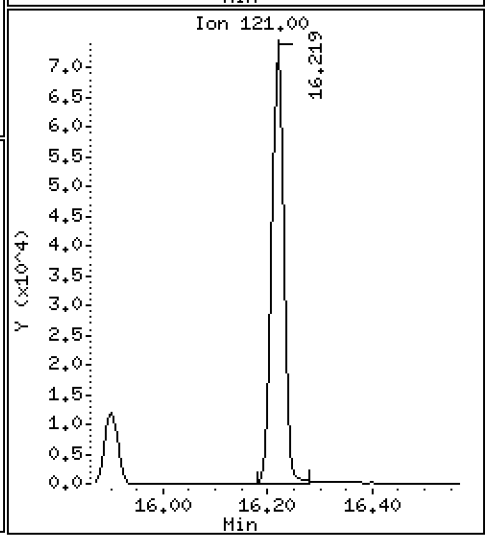












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

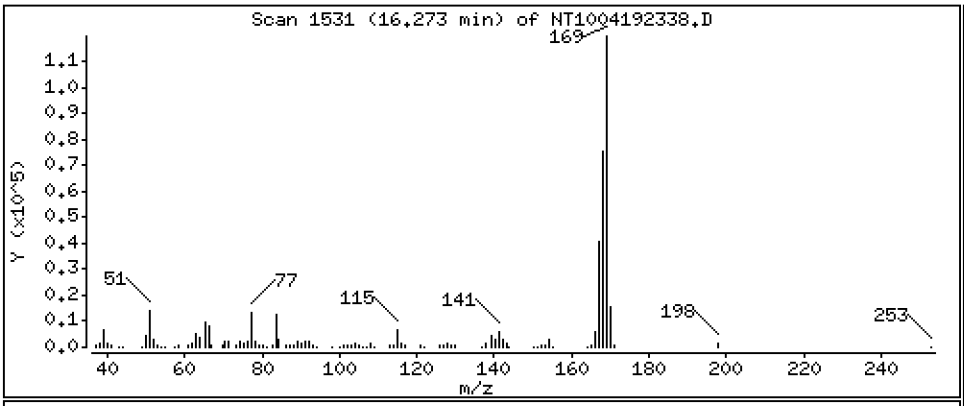
Operator: VTS

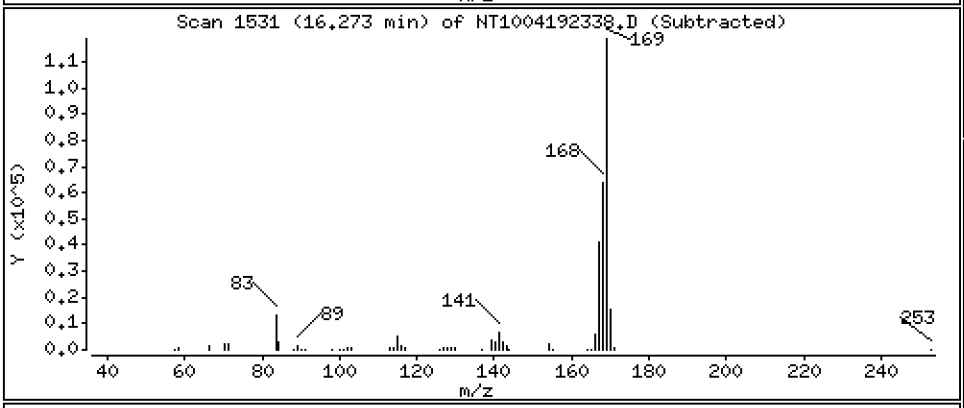
Column phase: ZB-5msi

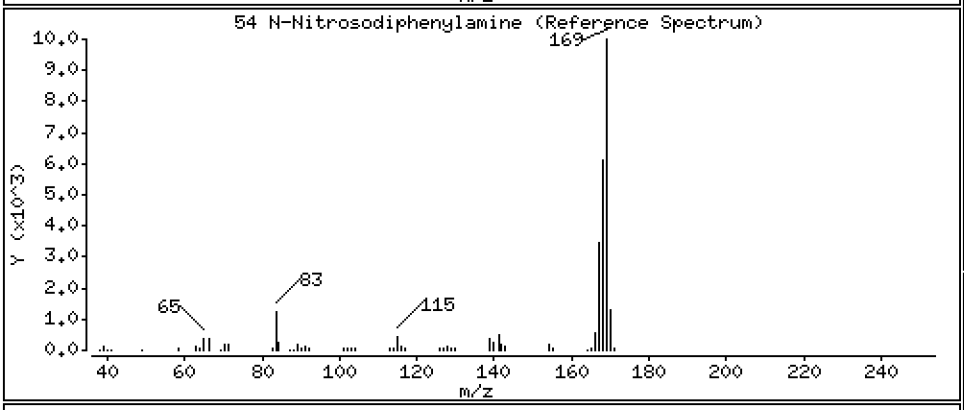
Column diameter: 0.25

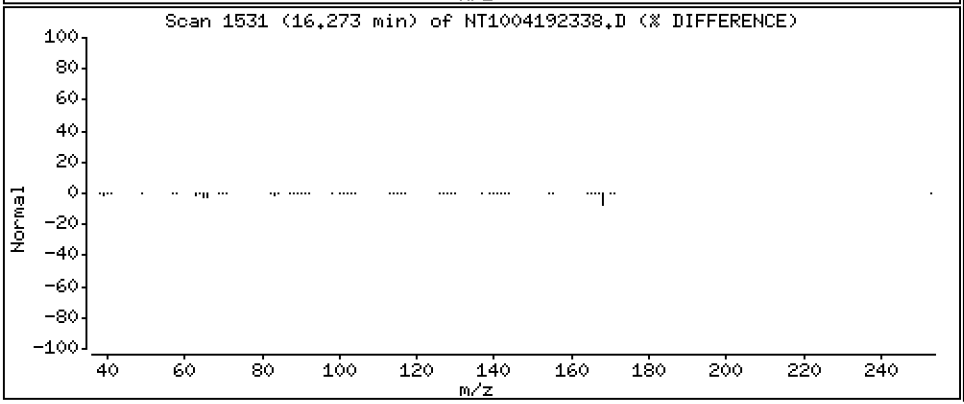
54 N-Nitrosodiphenylamine

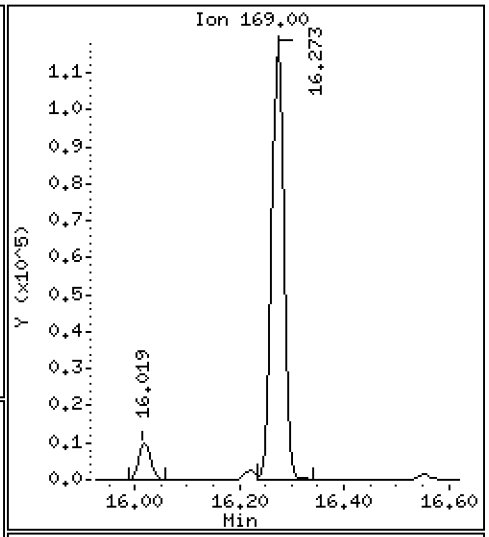
Concentration: 2.723 ug/mL

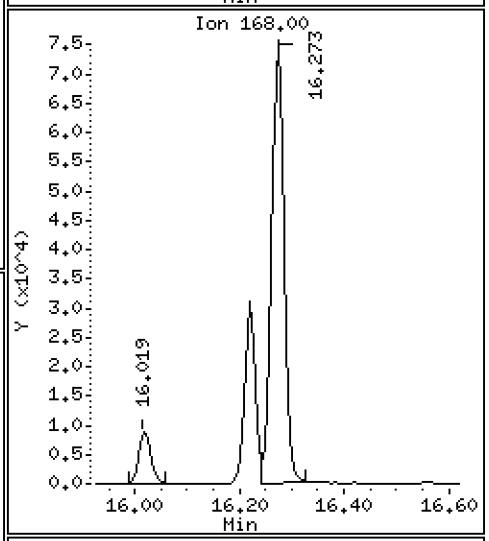


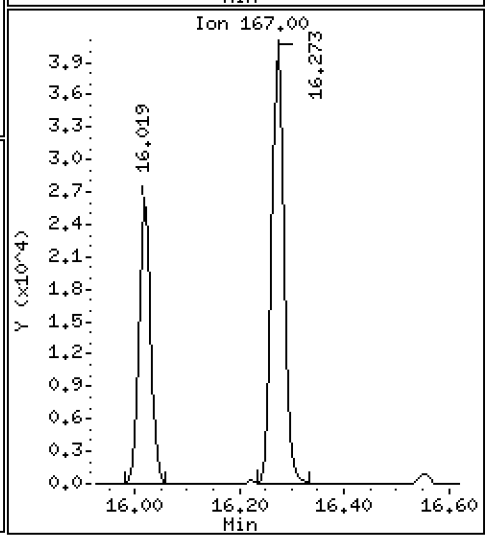












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

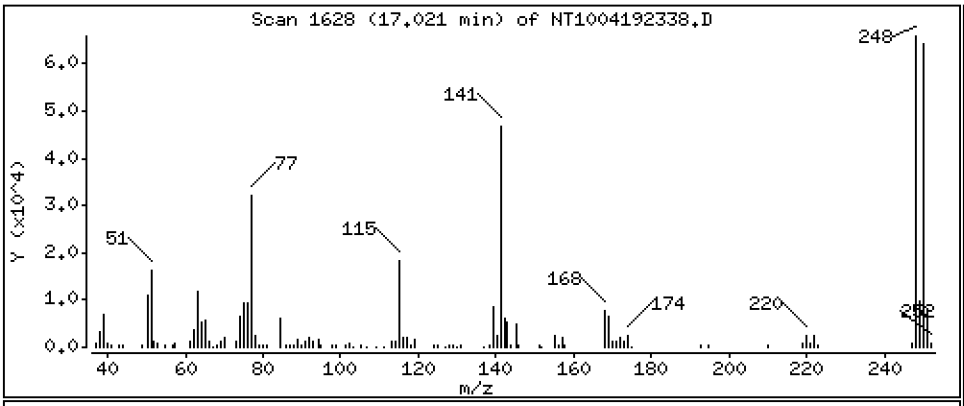
Operator: VTS

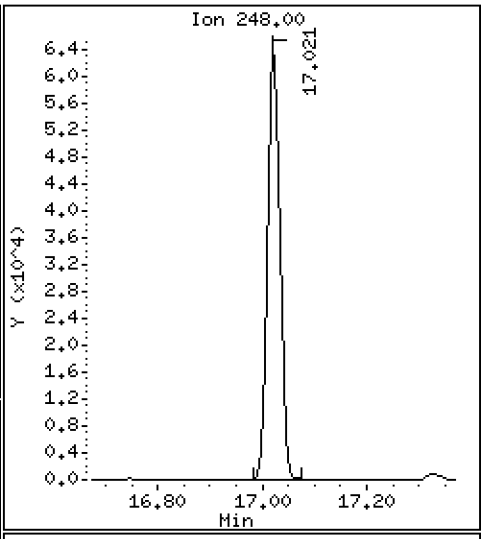
Column phase: ZB-5msi

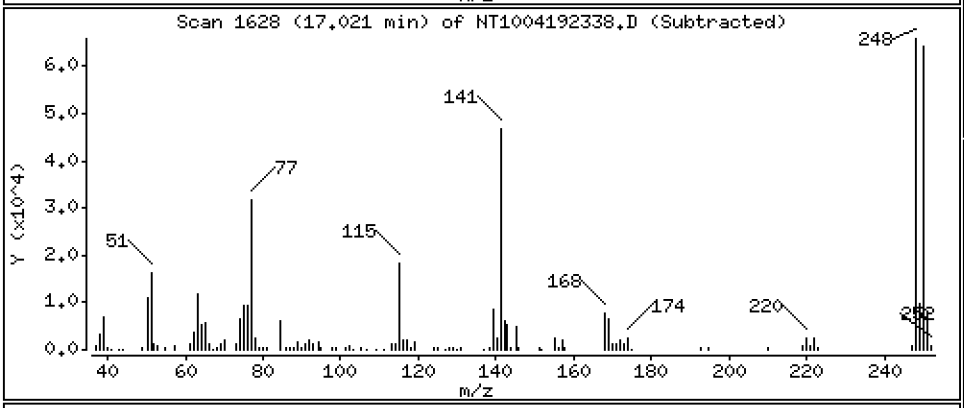
Column diameter: 0.25

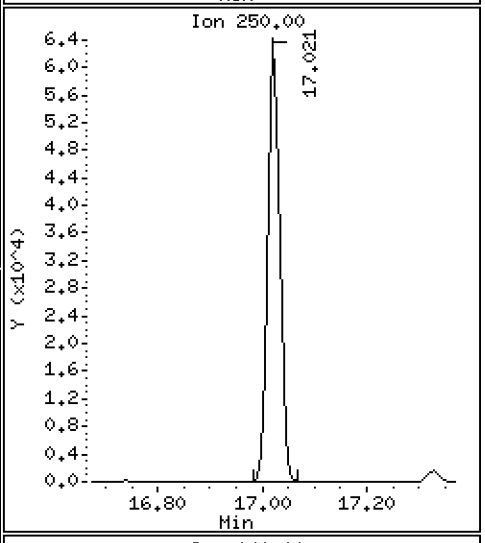
56 4-Bromophenyl-phenylether

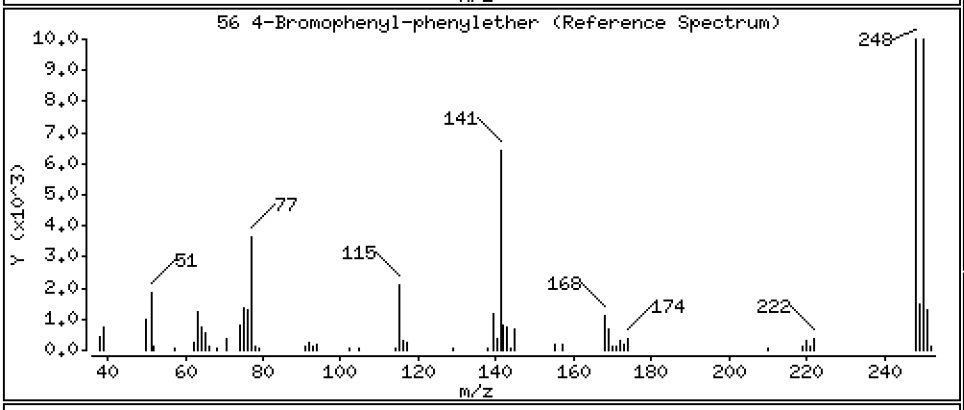
Concentration: 3.678 ug/mL

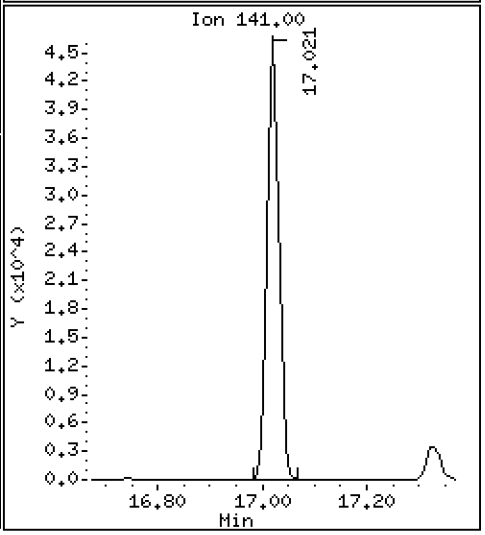


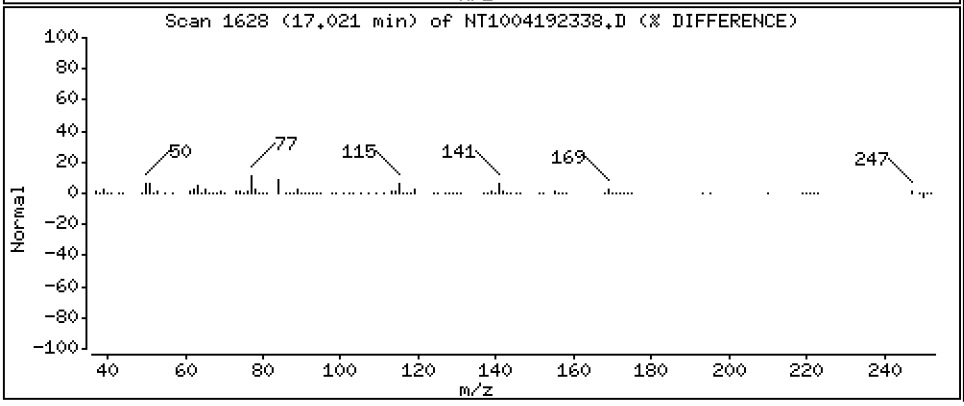












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

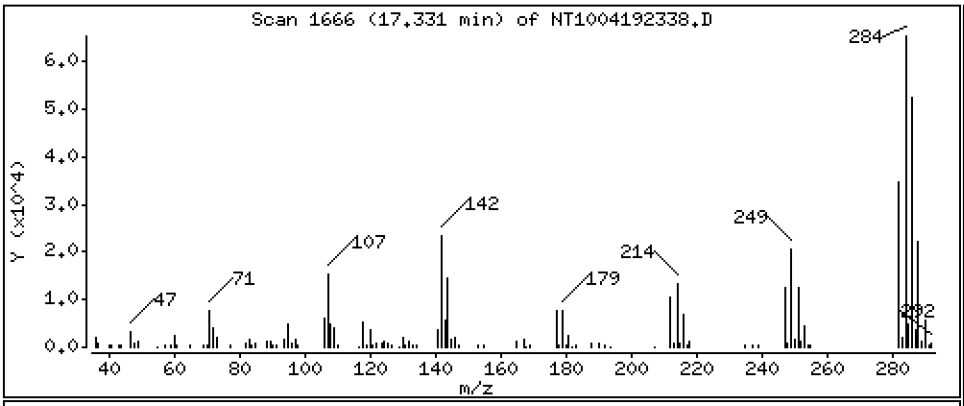
Operator: VTS

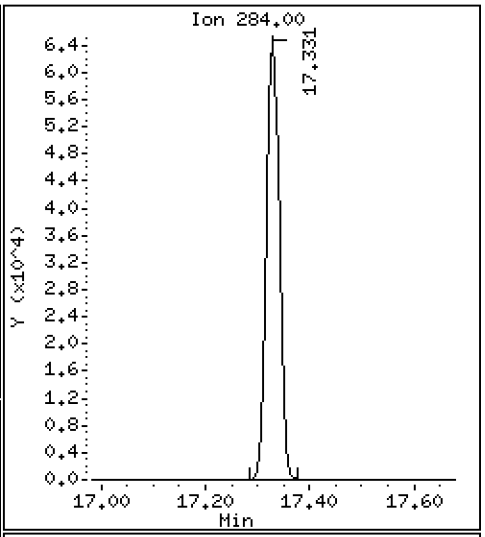
Column phase: ZB-5msi

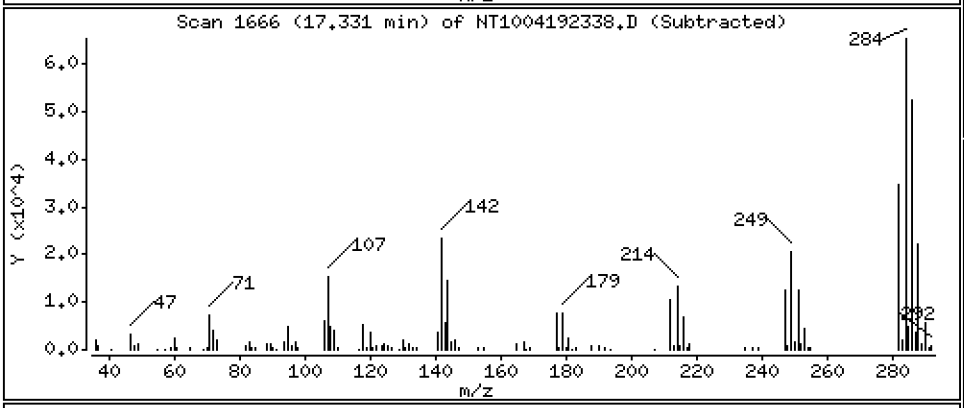
Column diameter: 0.25

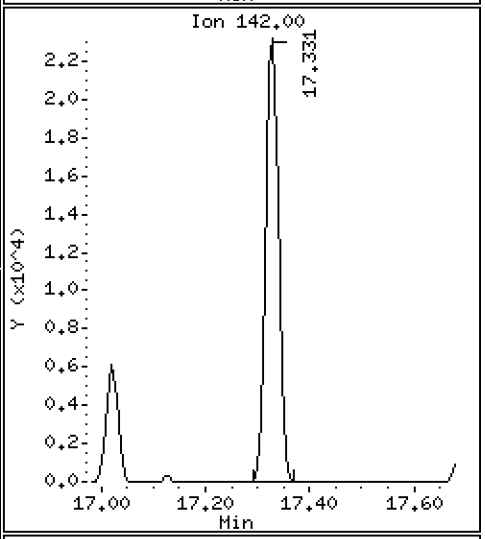
57 Hexachlorobenzene

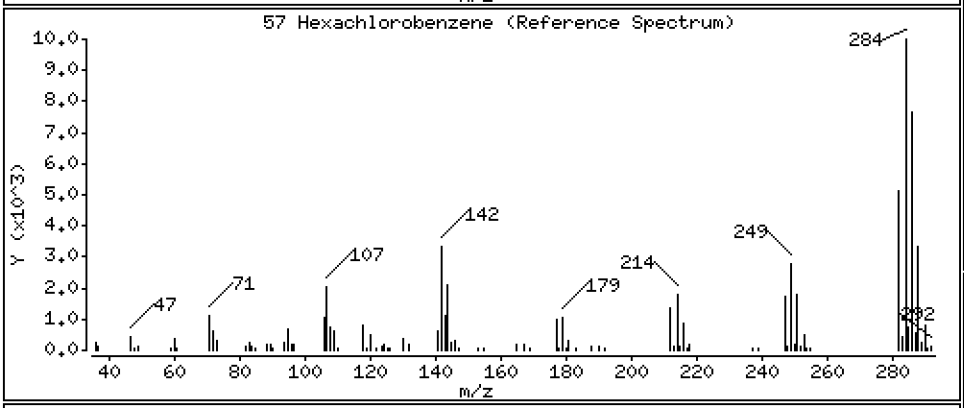
Concentration: 3.648 ug/mL

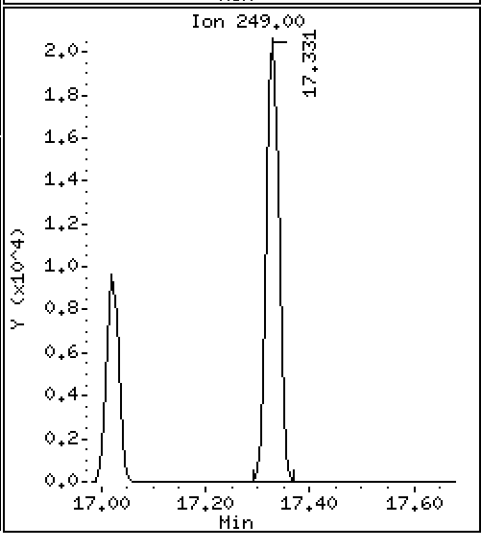


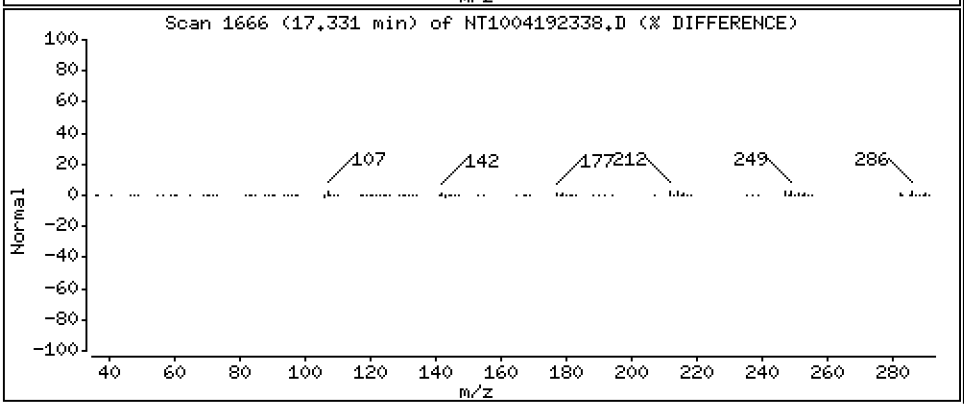












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

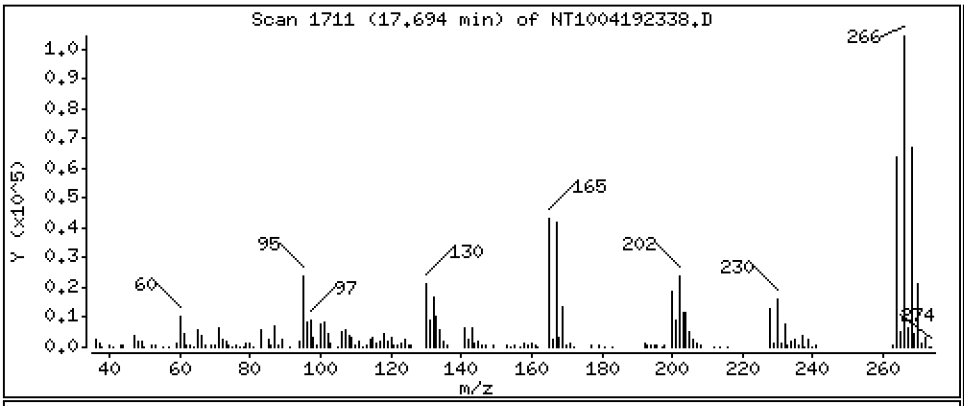
Operator: VTS

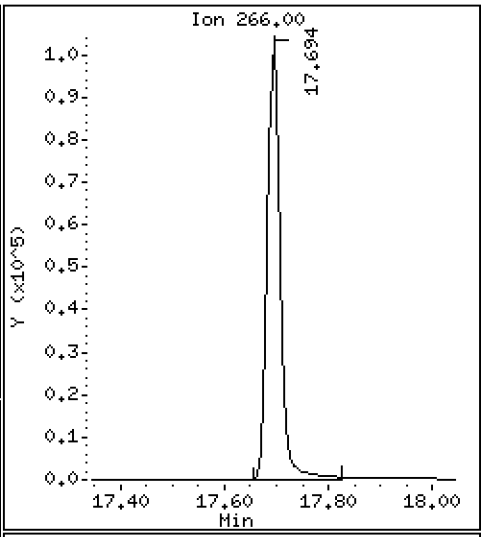
Column phase: ZB-5msi

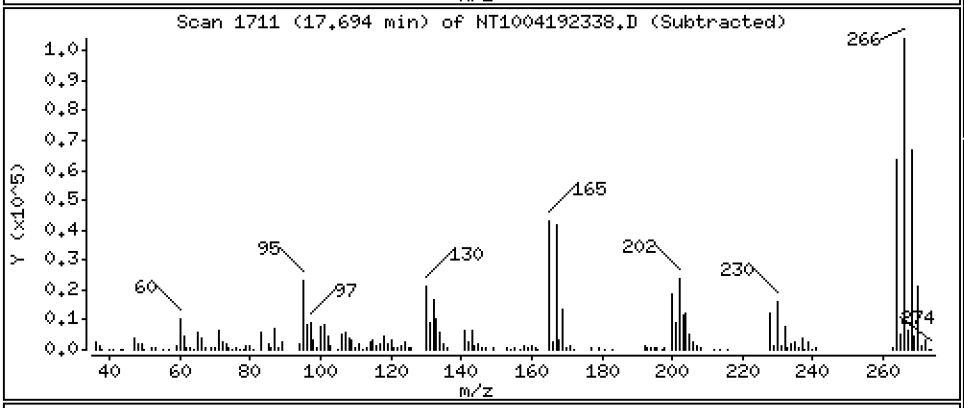
Column diameter: 0.25

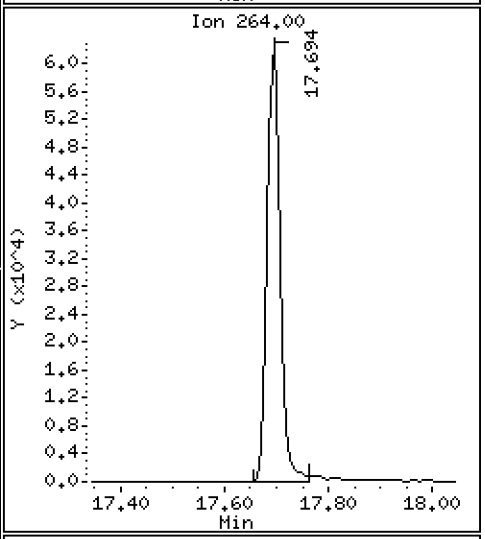
58 Pentachlorophenol

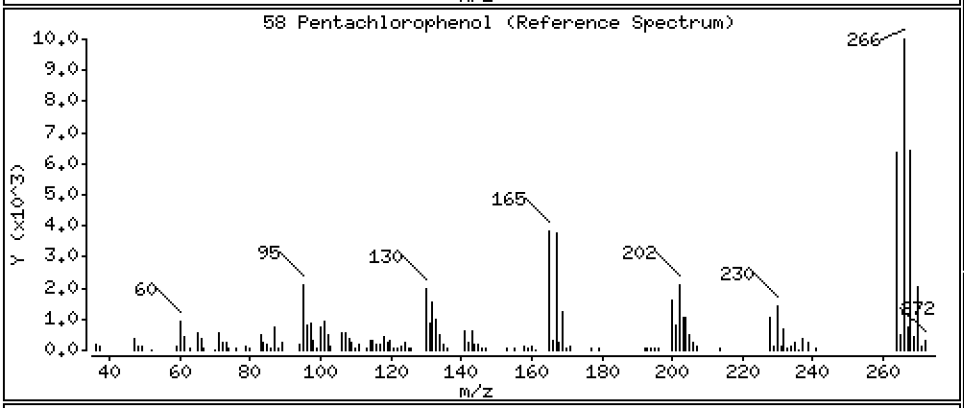
Concentration: 9.613 ug/mL

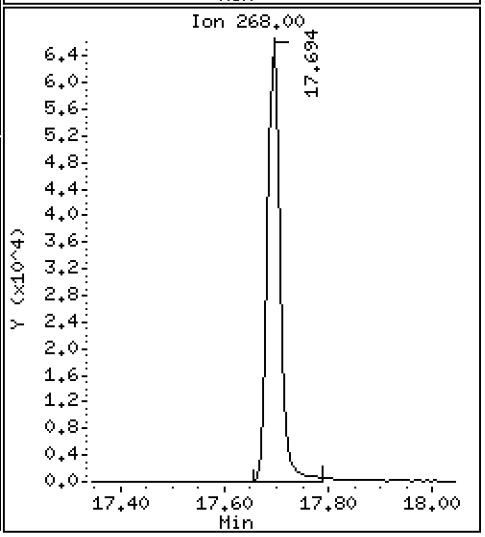


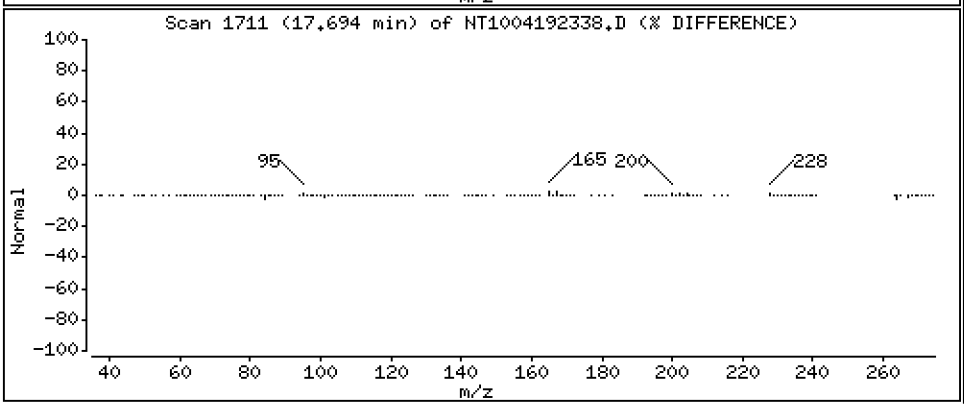












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

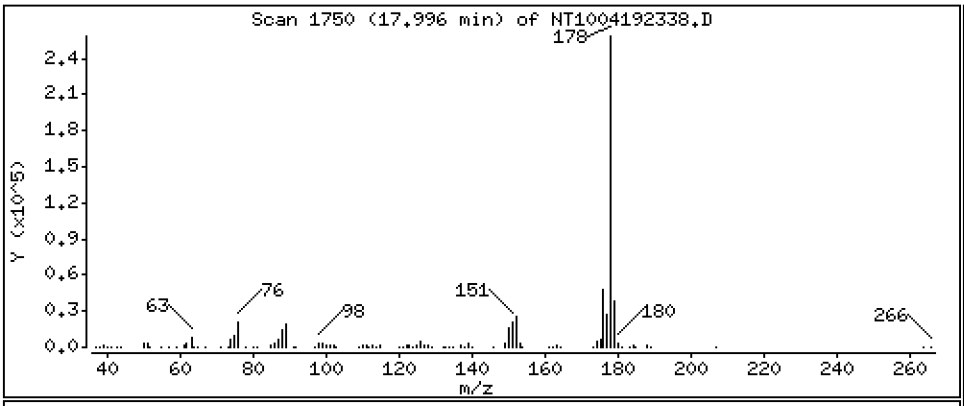
Operator: VTS

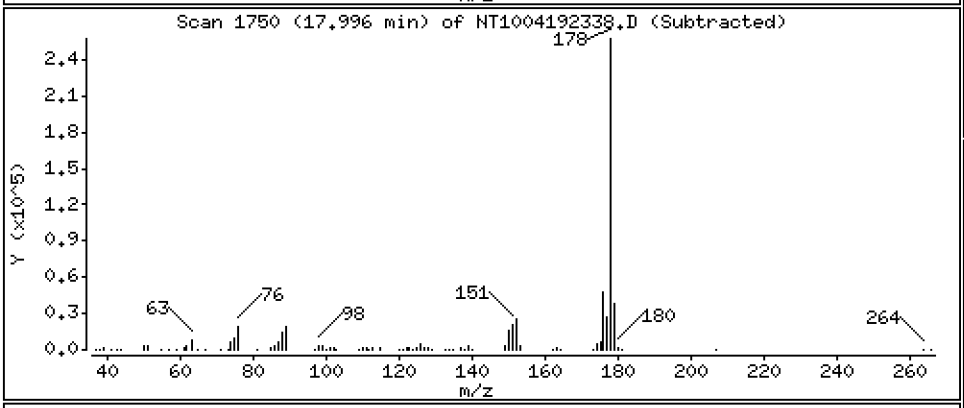
Column phase: ZB-5msi

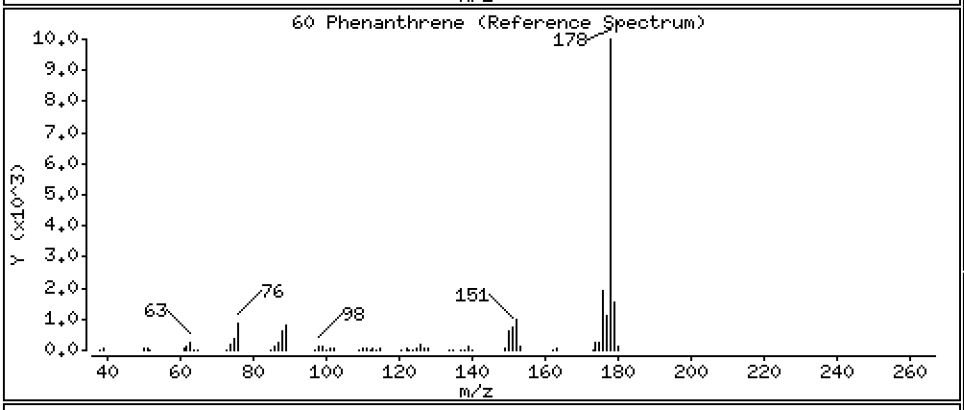
Column diameter: 0.25

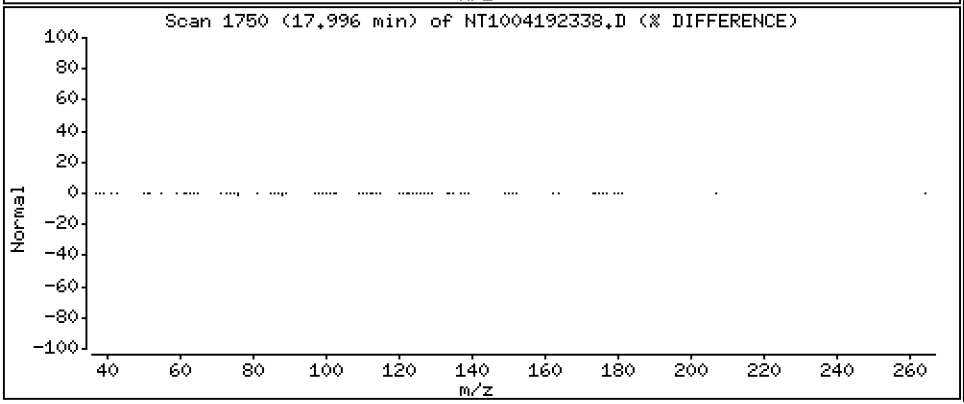
60 Phenanthrene

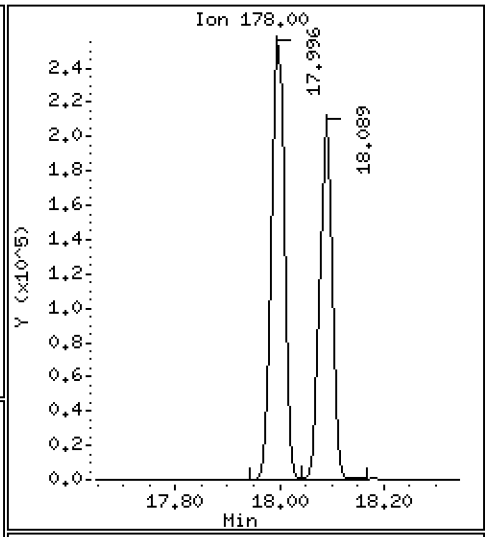
Concentration: 3.095 ug/mL

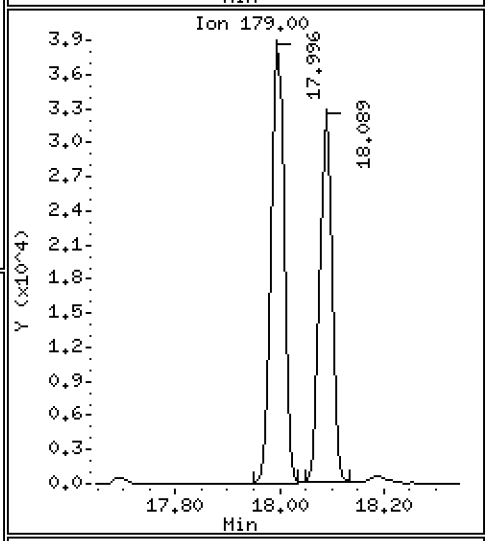


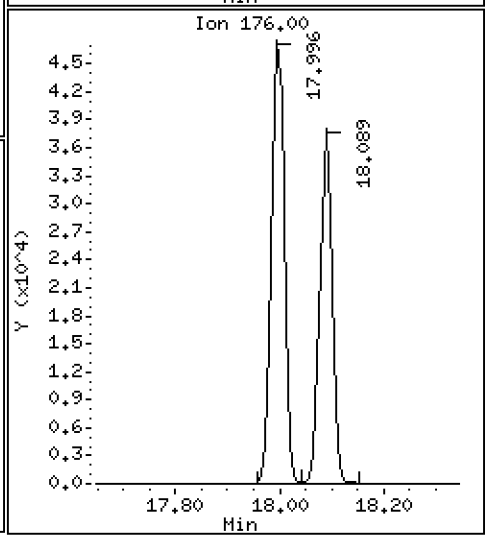












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

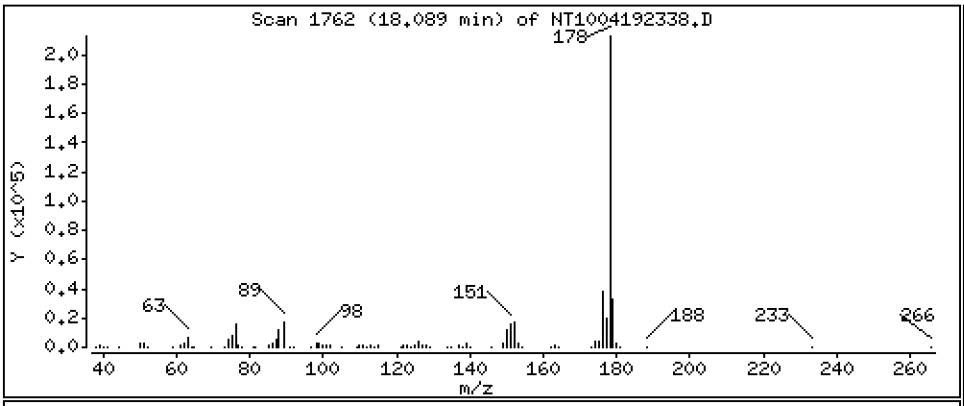
Operator: VTS

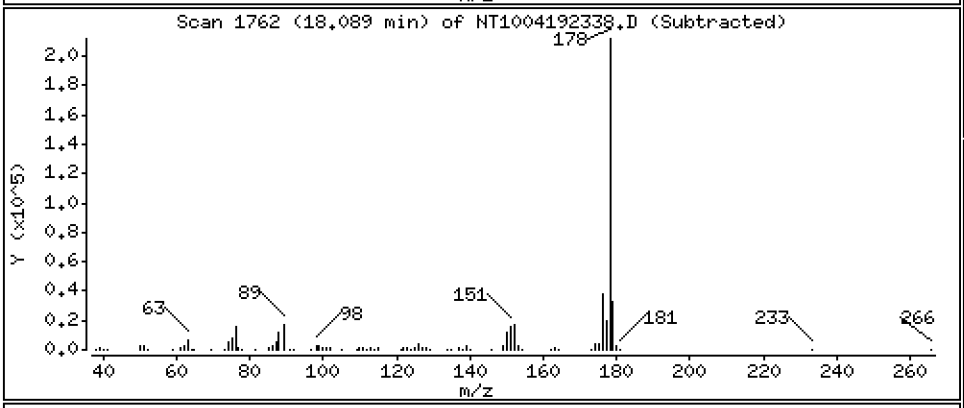
Column phase: ZB-5msi

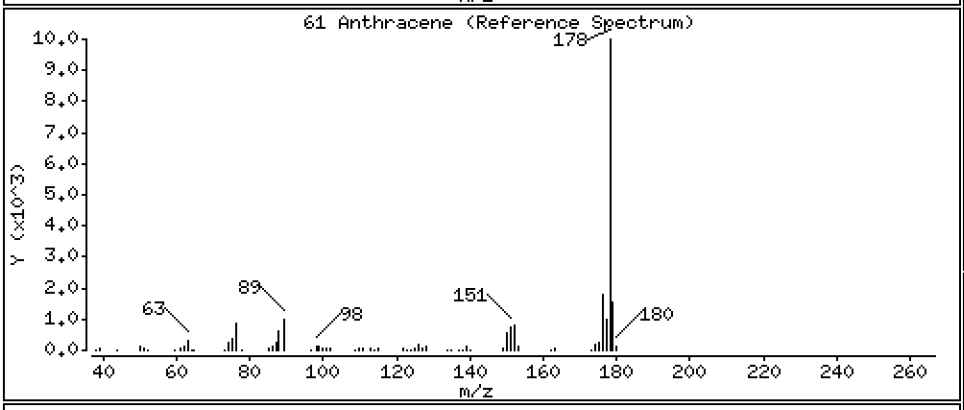
Column diameter: 0.25

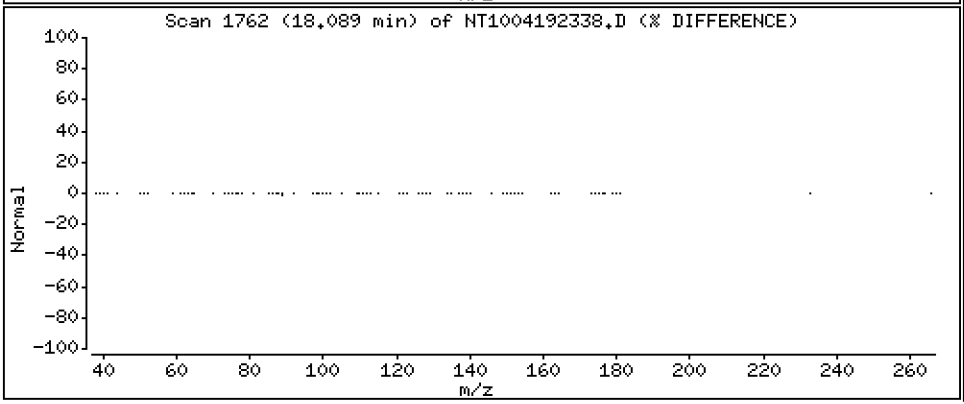
61 Anthracene

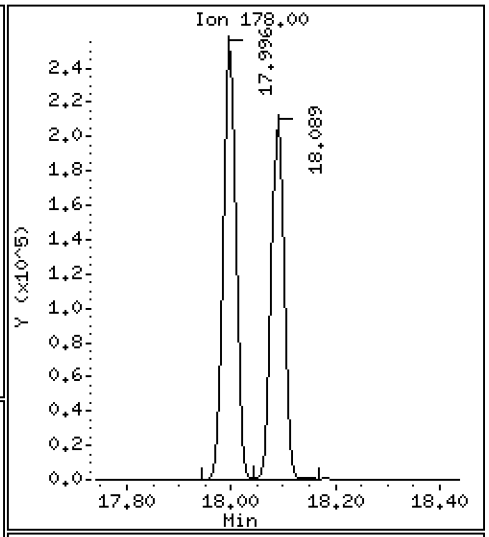
Concentration: 2.627 ug/mL

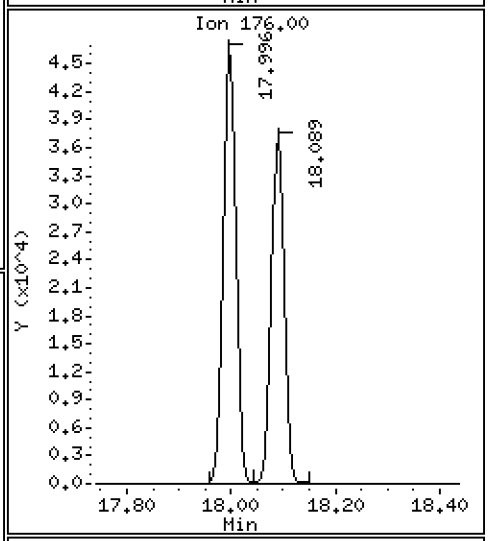


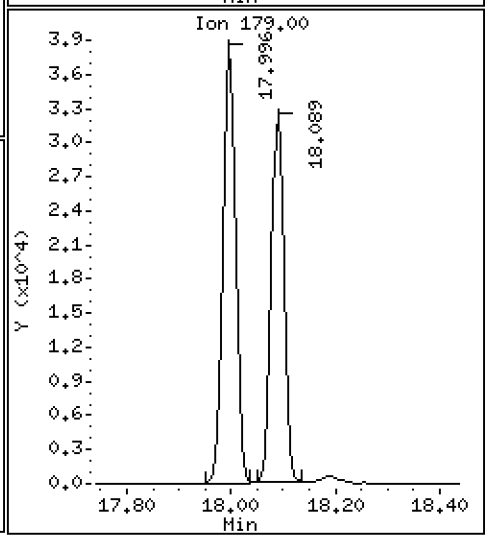












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

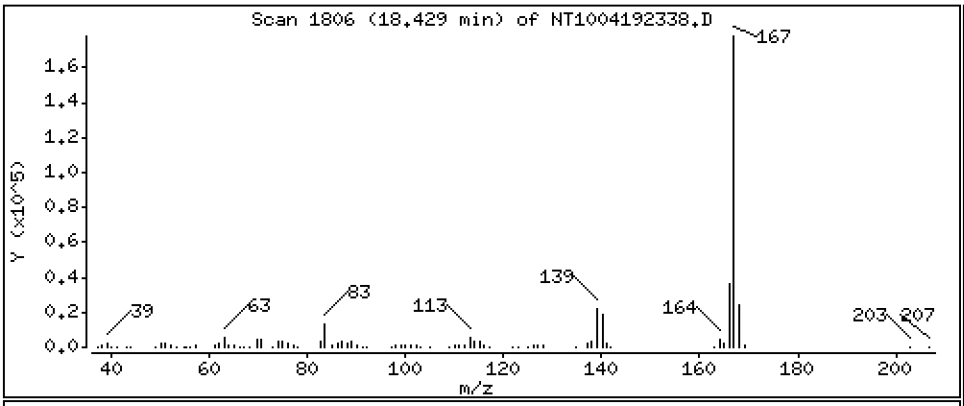
Operator: VTS

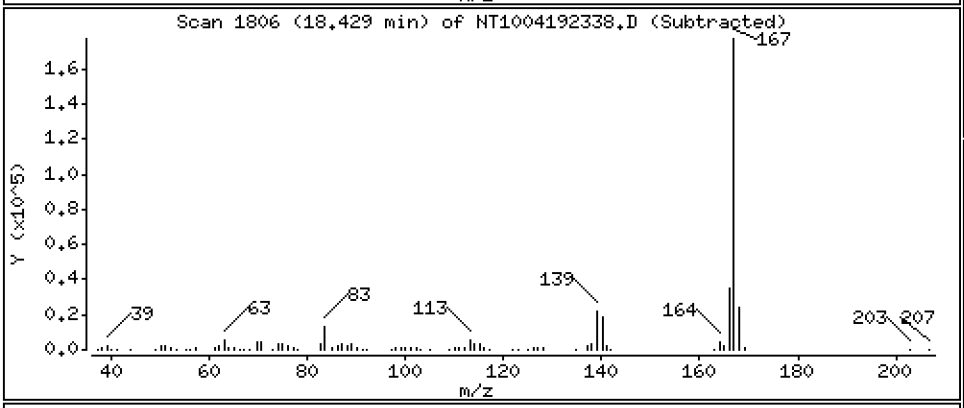
Column phase: ZB-5msi

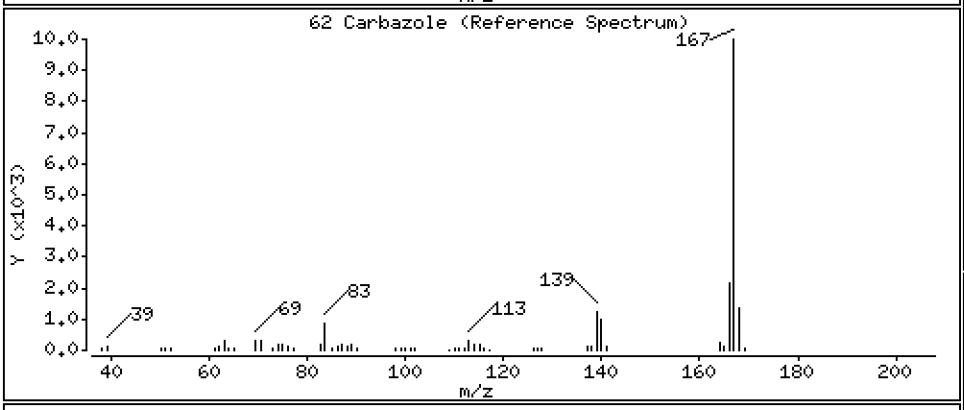
Column diameter: 0.25

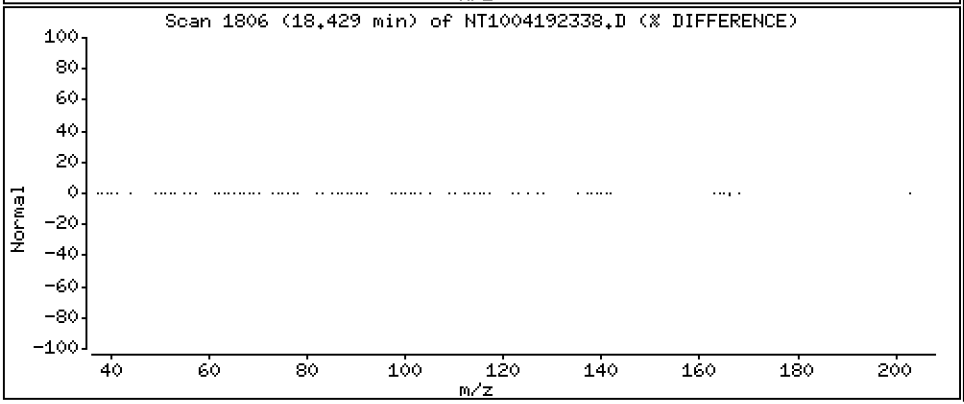
62 Carbazole

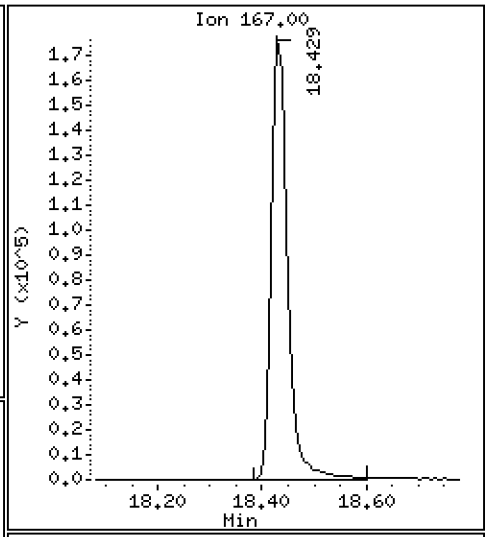
Concentration: 3.172 ug/mL

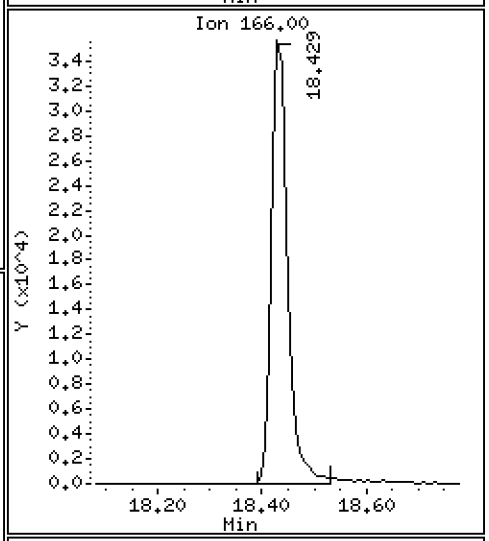


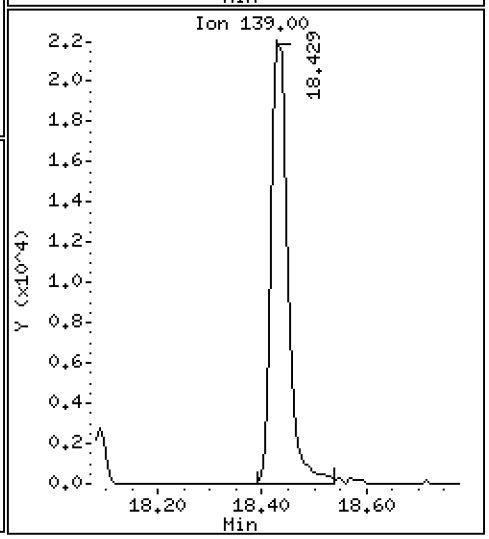












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

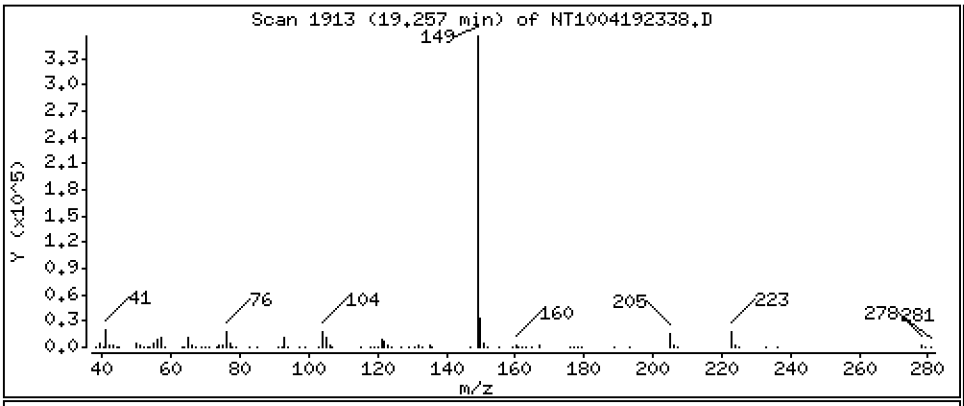
Operator: VTS

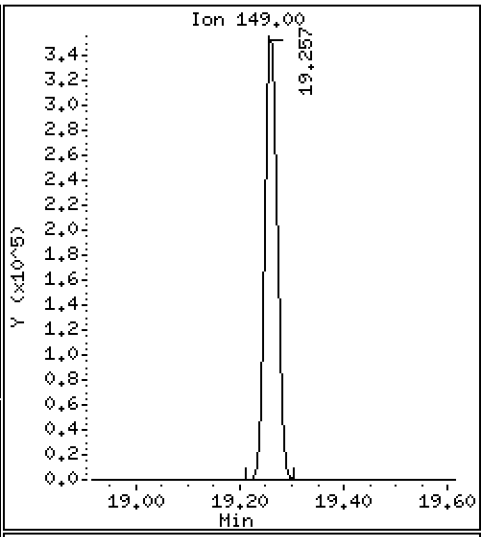
Column phase: ZB-5msi

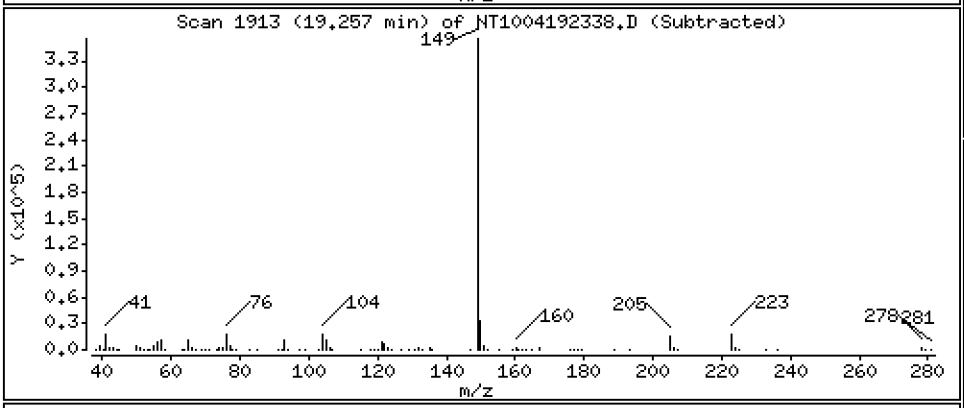
Column diameter: 0.25

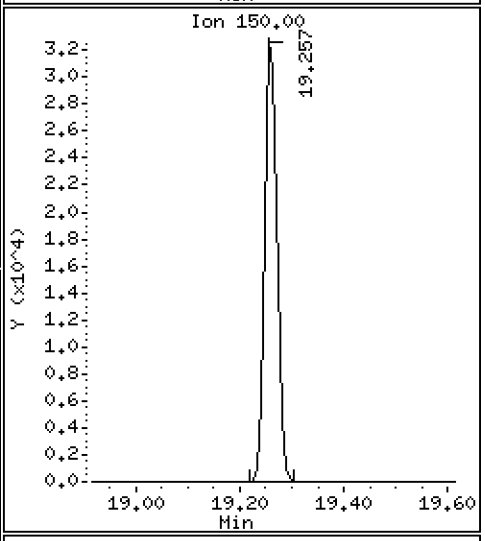
63 Di-n-butylphthalate

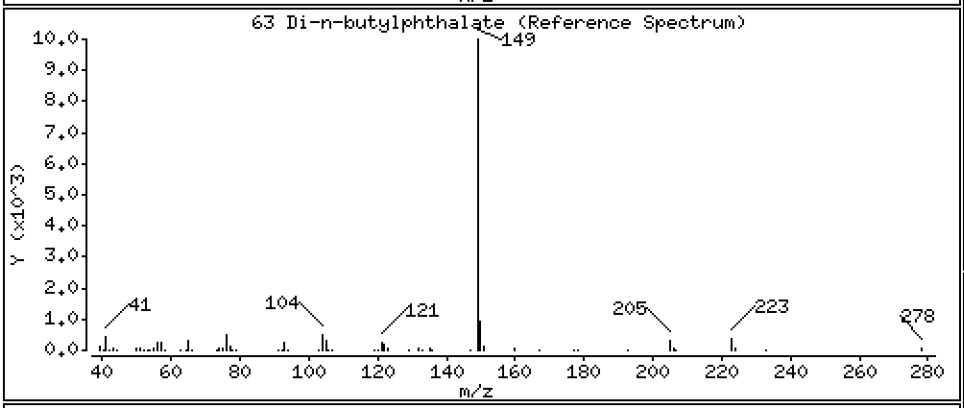
Concentration: 3.633 ug/mL

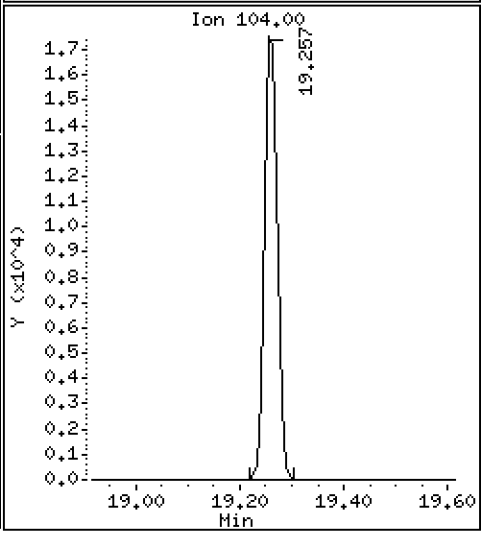


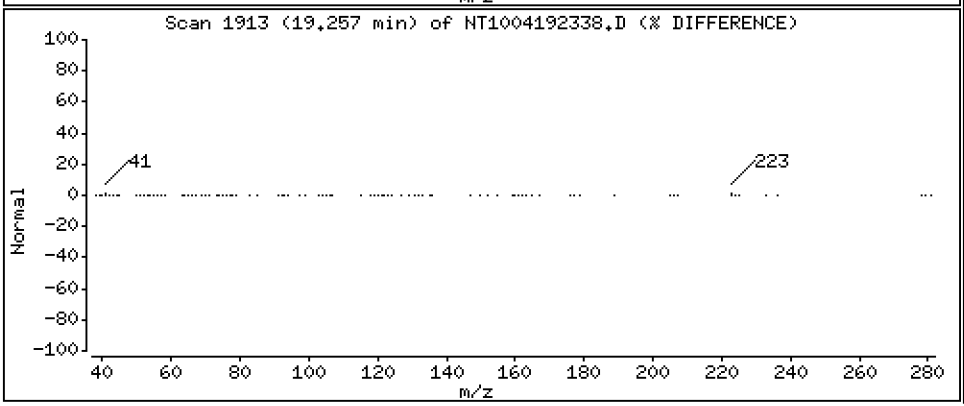












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

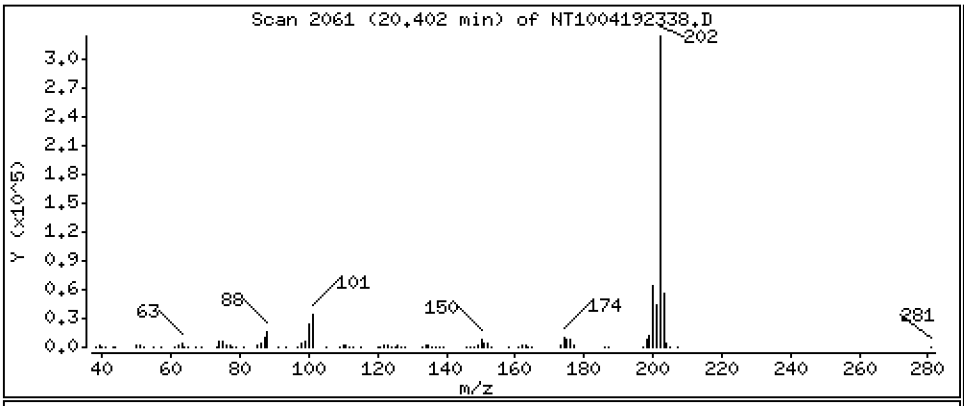
Operator: VTS

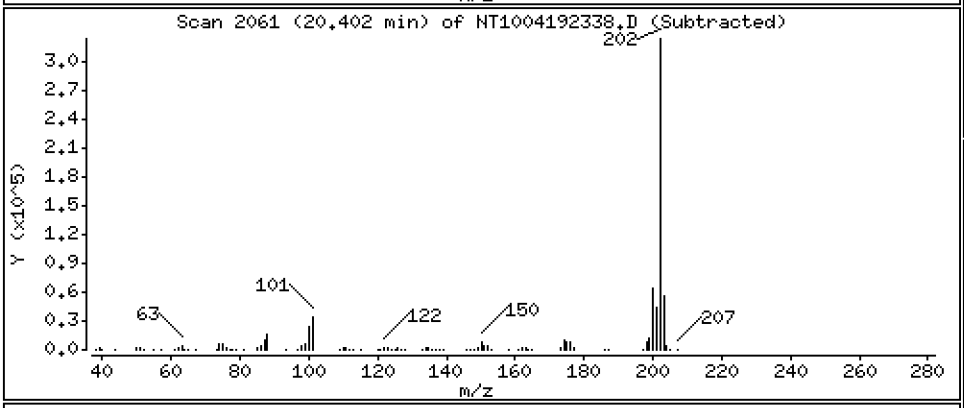
Column phase: ZB-5msi

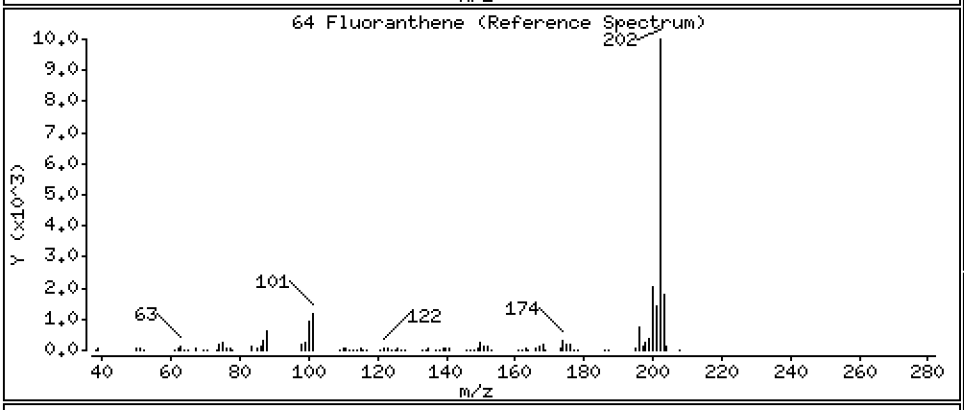
Column diameter: 0.25

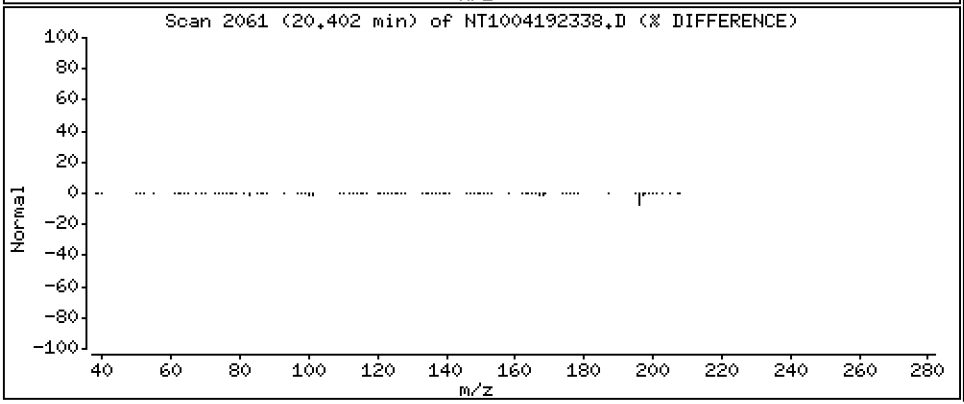
64 Fluoranthene

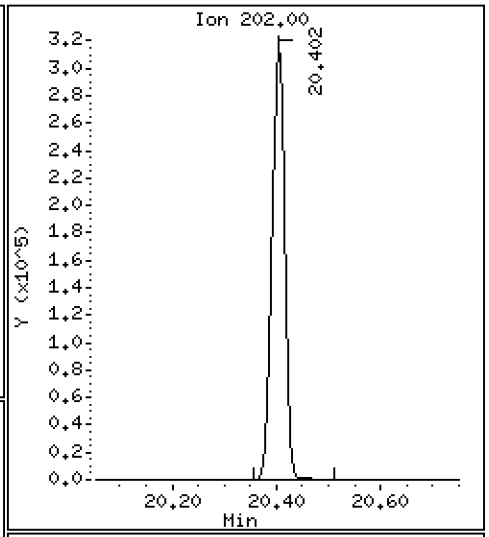
Concentration: 2.733 ug/mL

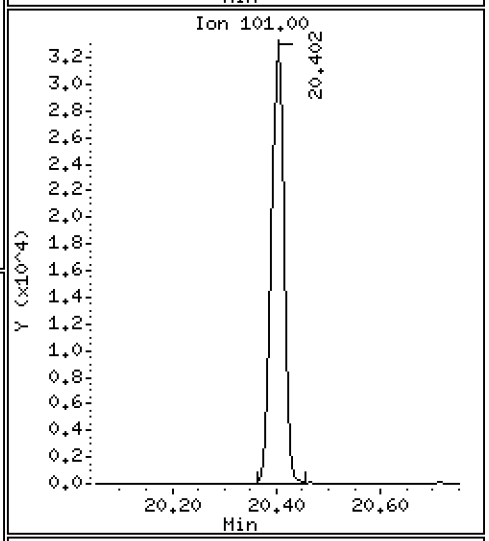


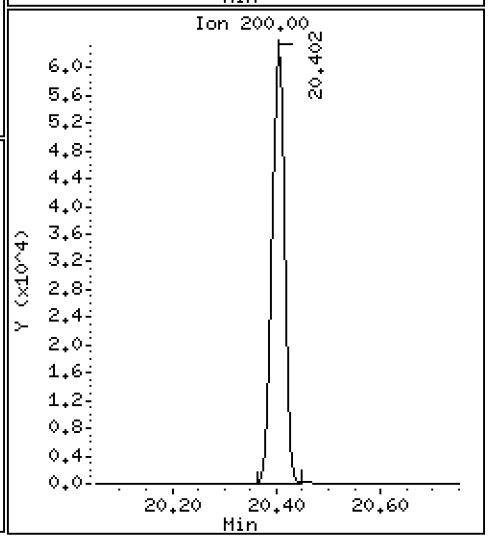












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

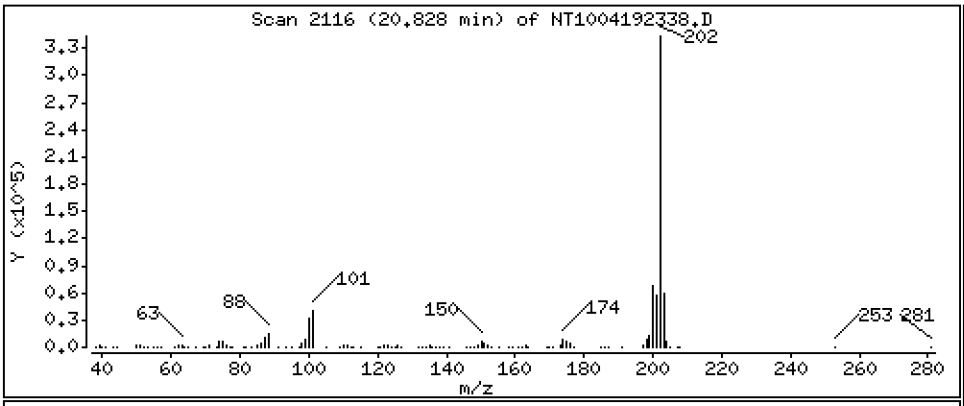
Operator: VTS

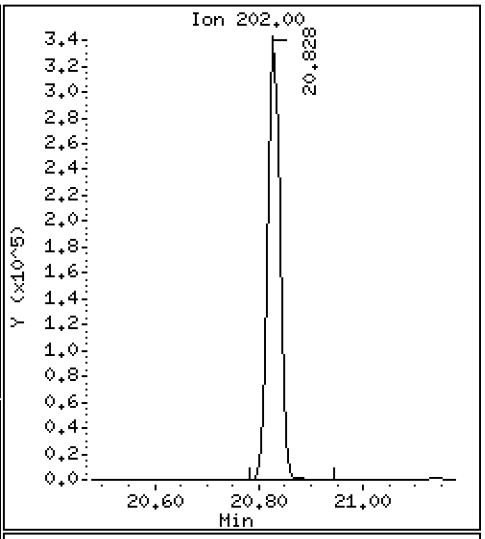
Column phase: ZB-5msi

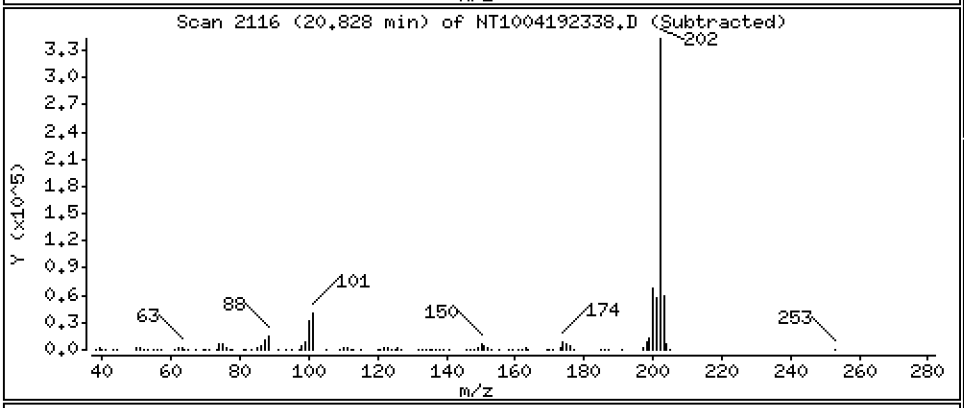
Column diameter: 0.25

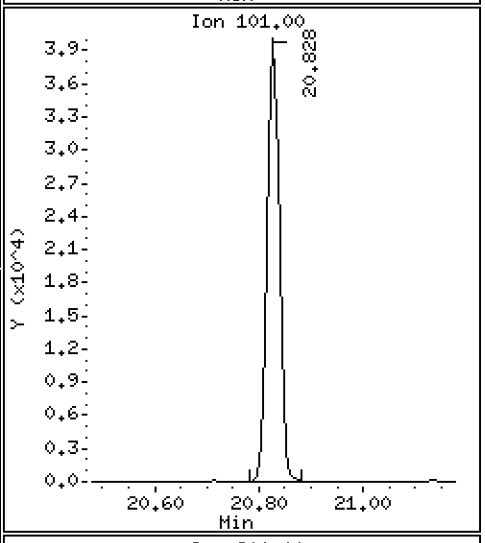
65 Pyrene

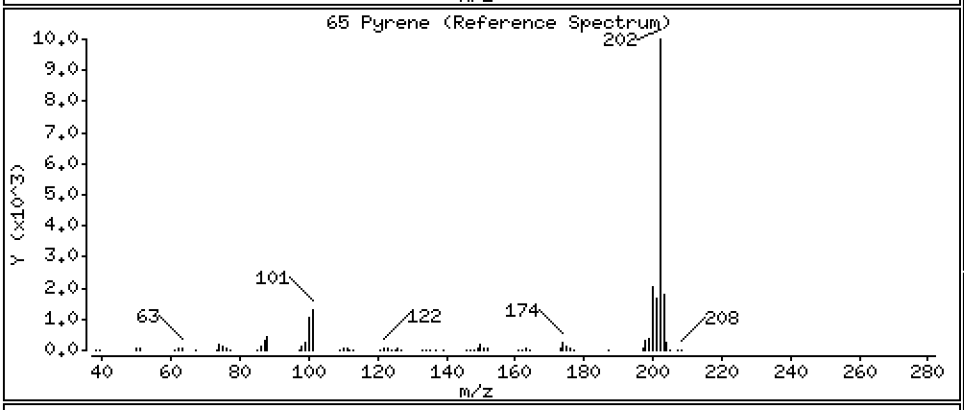
Concentration: 2.752 ug/mL

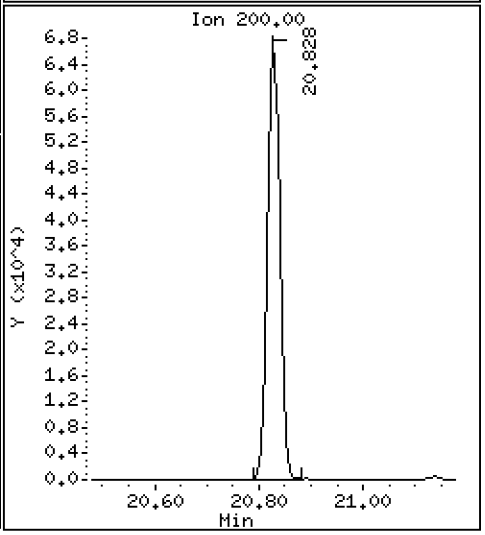


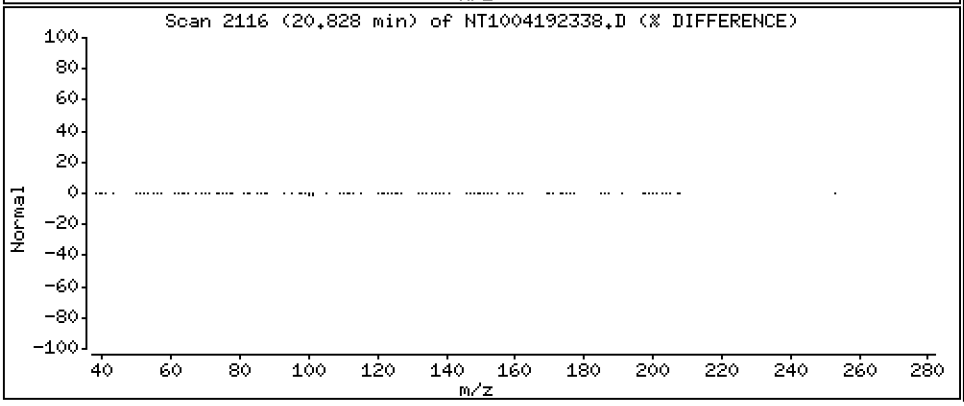












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

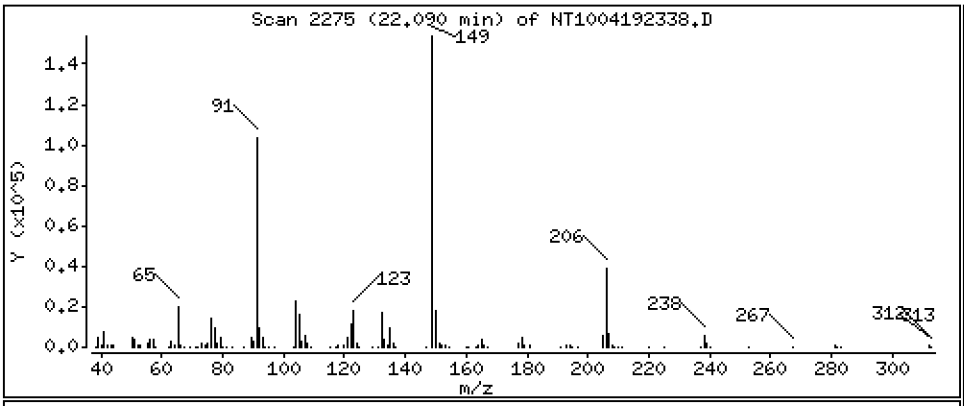
Operator: VTS

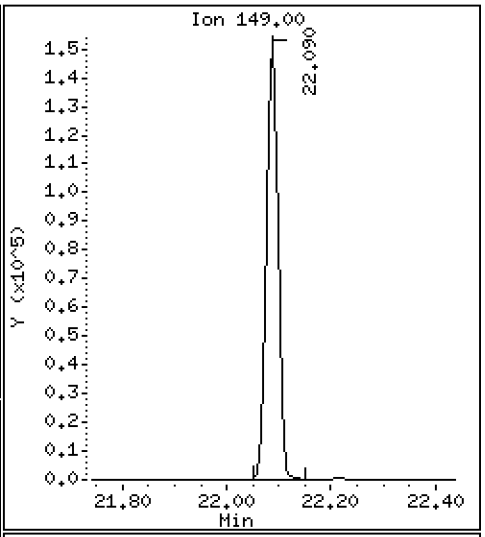
Column phase: ZB-5msi

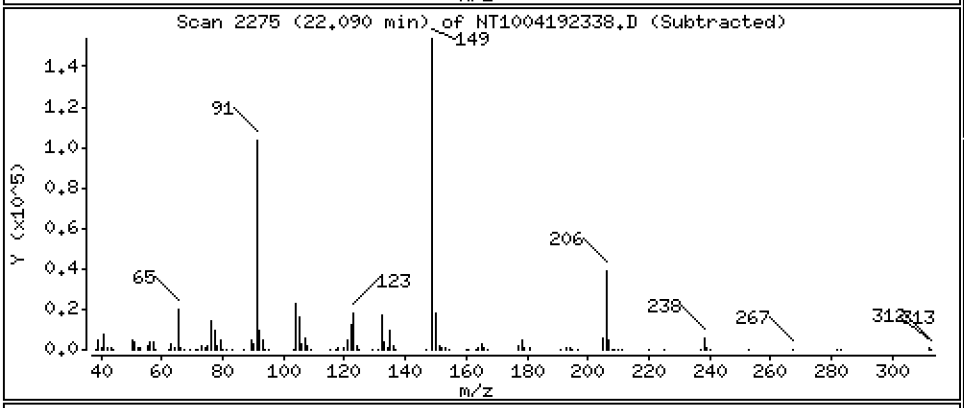
Column diameter: 0.25

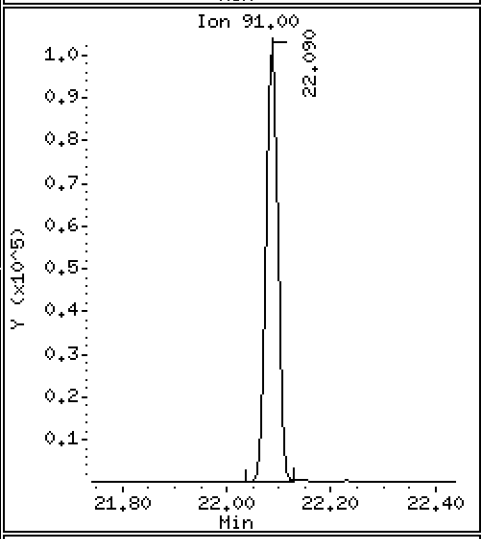
67 Butylbenzylphthalate

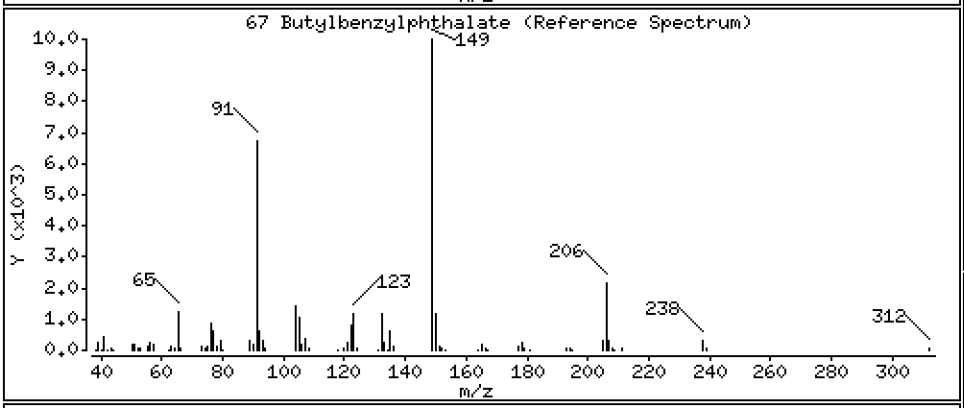
Concentration: 3.221 ug/mL

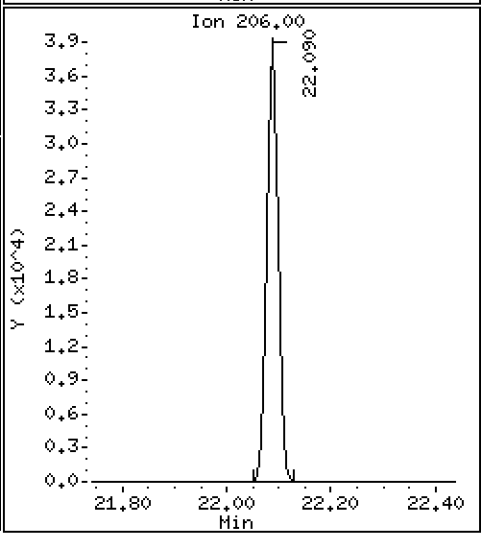


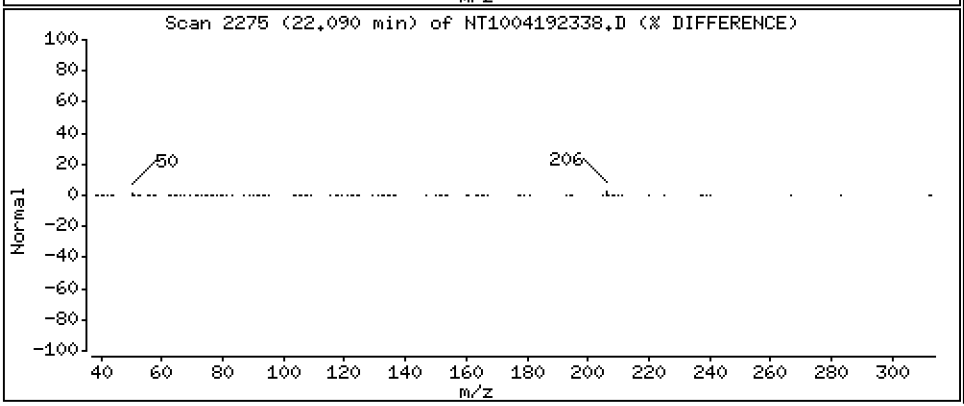












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

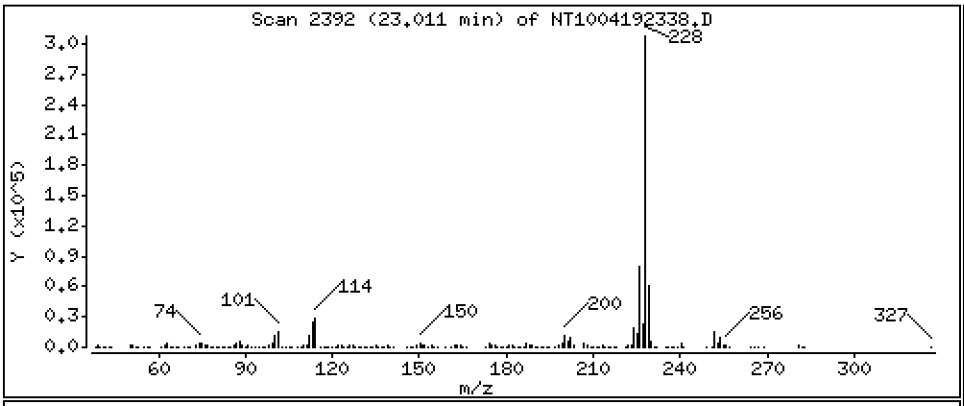
Operator: VTS

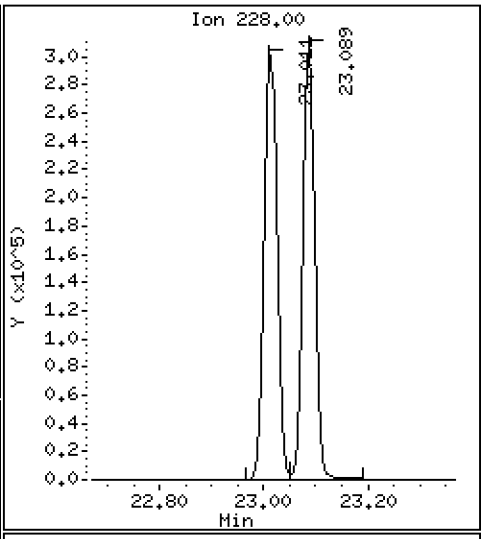
Column phase: ZB-5msi

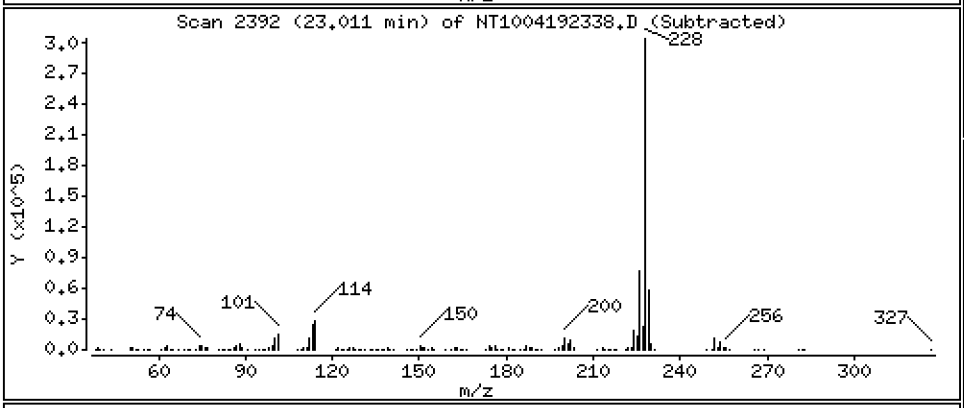
Column diameter: 0.25

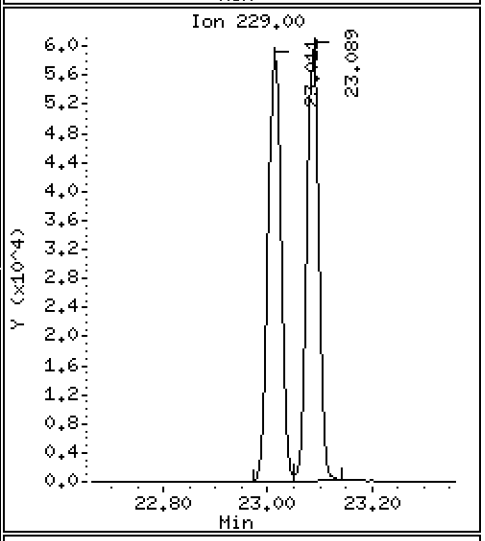
68 Benzo(a)anthracene

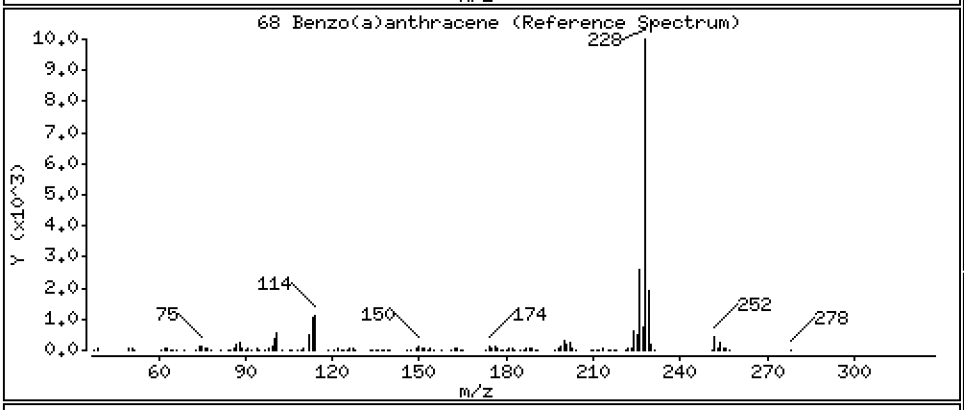
Concentration: 3.034 ug/mL

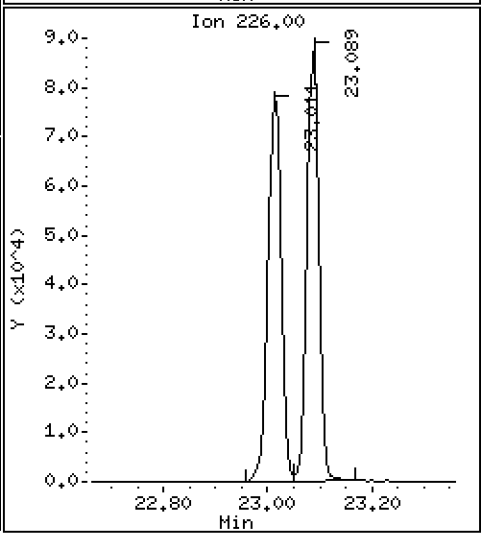


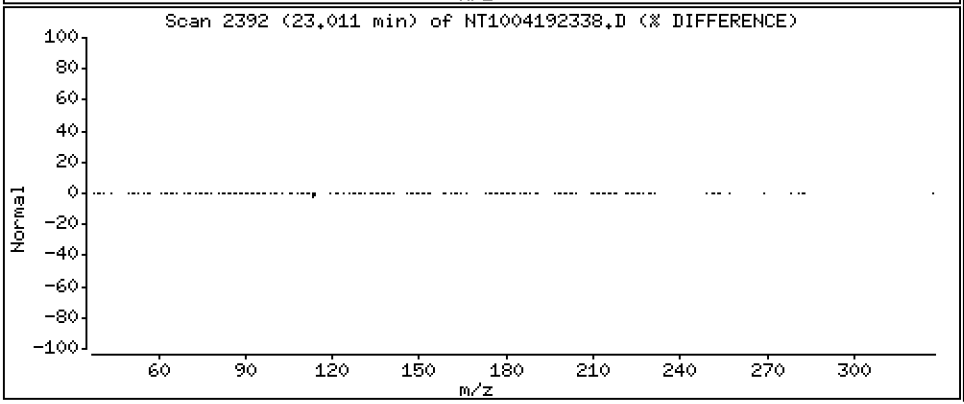












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

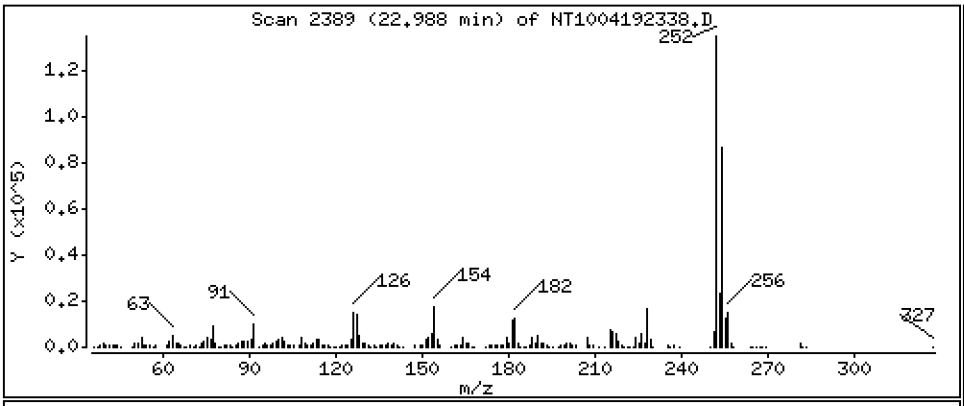
Operator: VTS

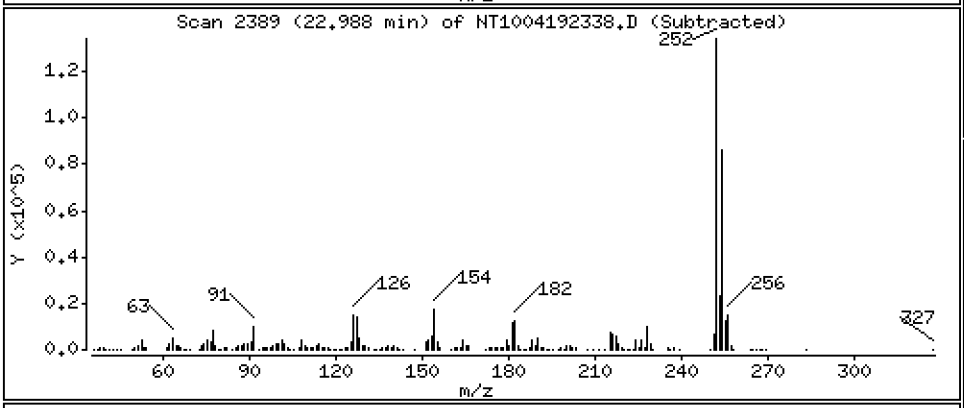
Column phase: ZB-5msi

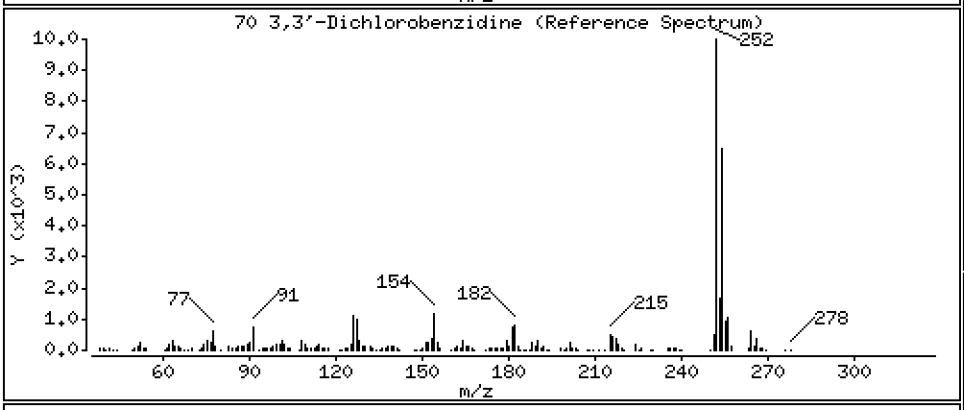
Column diameter: 0.25

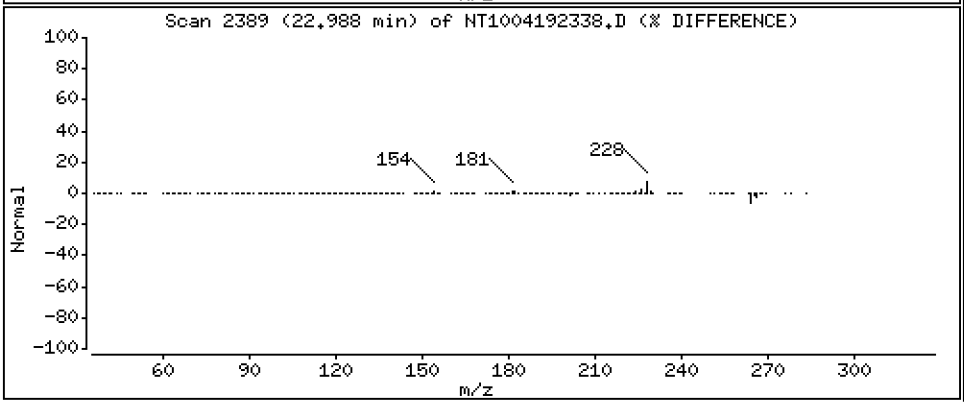
70 3,3'-Dichlorobenzidine

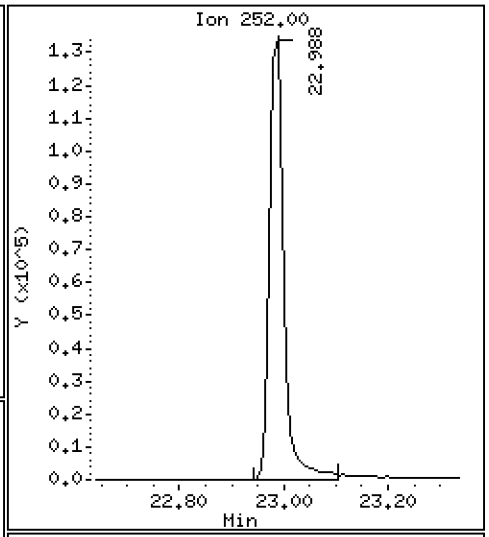
Concentration: 4.670 ug/mL

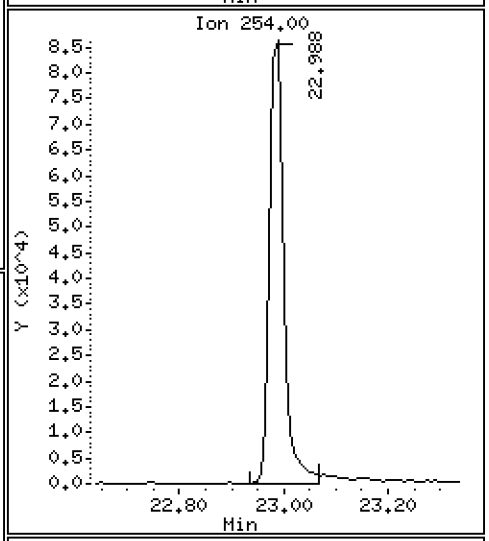


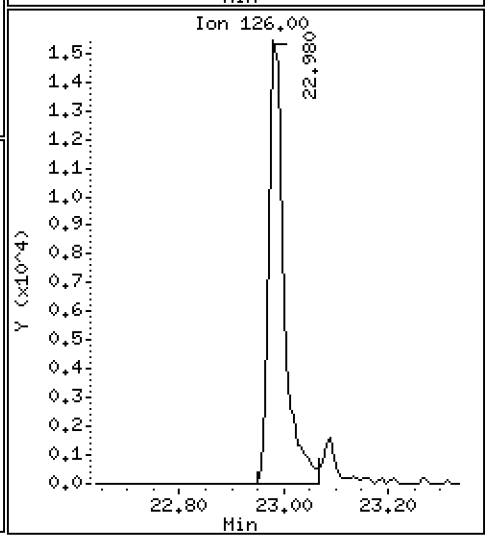












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192338.D

Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

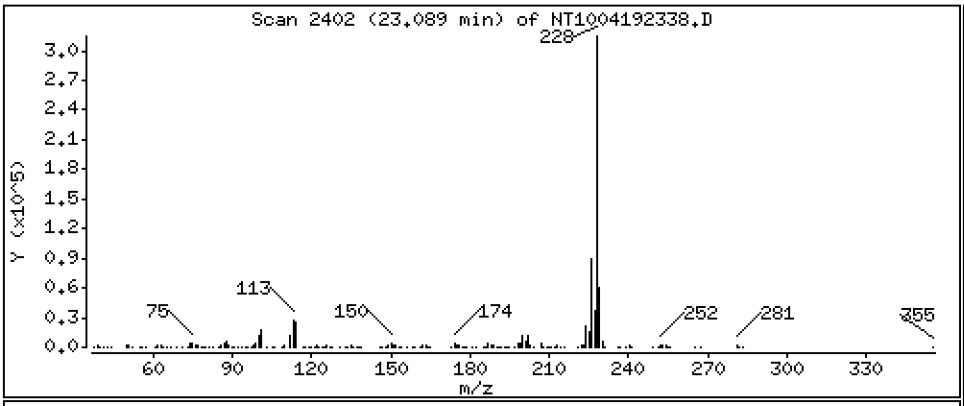
Operator: VTS

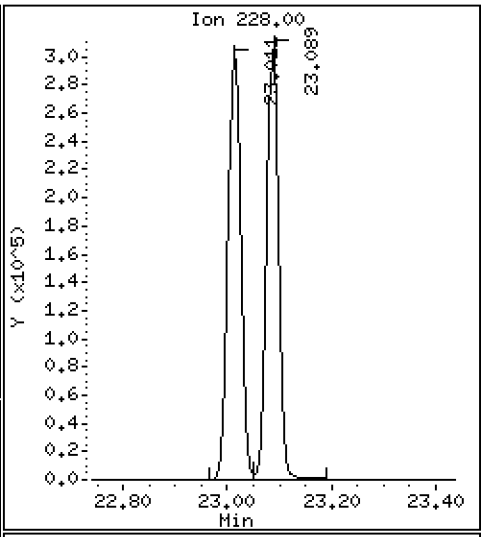
Column phase: ZB-5msi

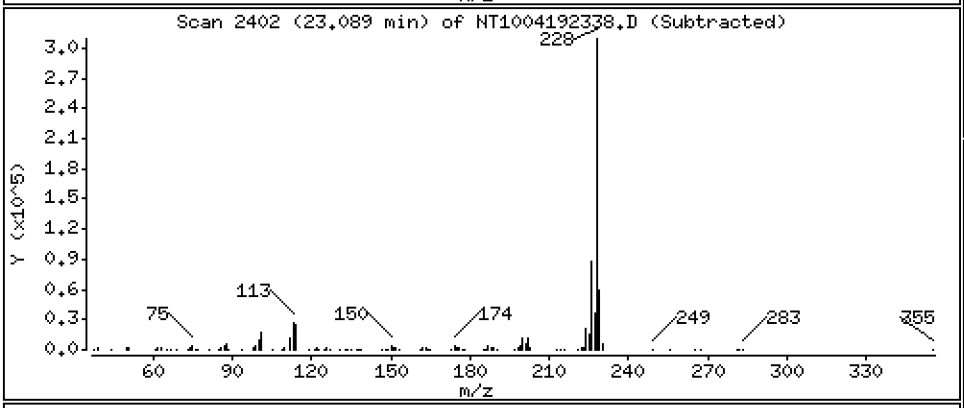
Column diameter: 0.25

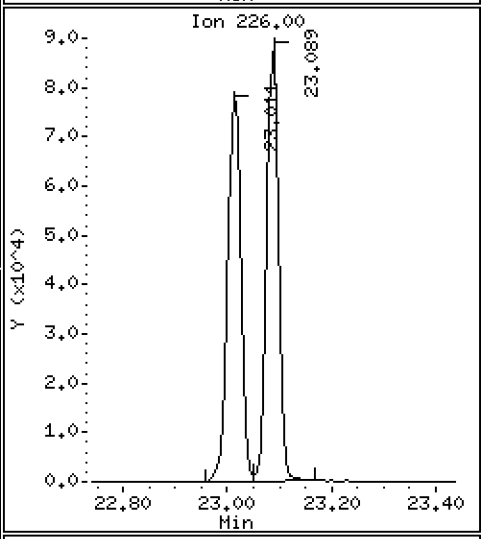
71 Chrysene

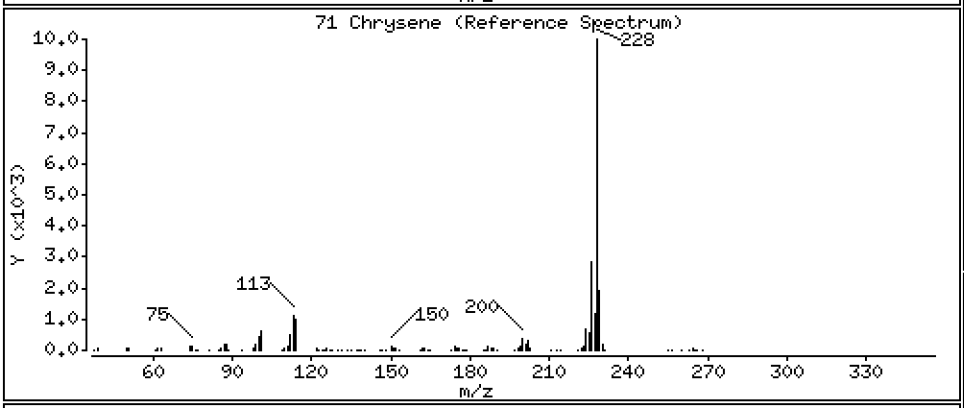
Concentration: 2.887 ug/mL

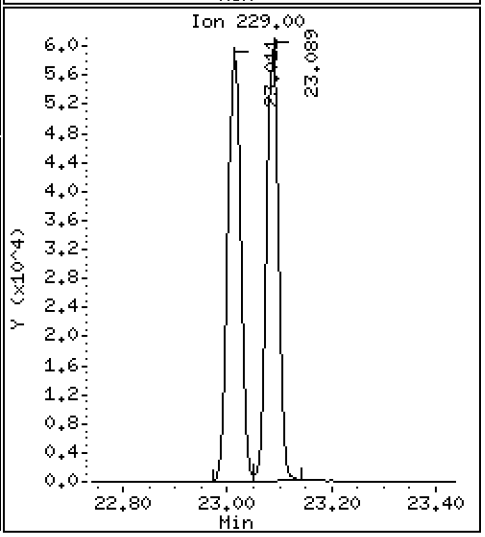


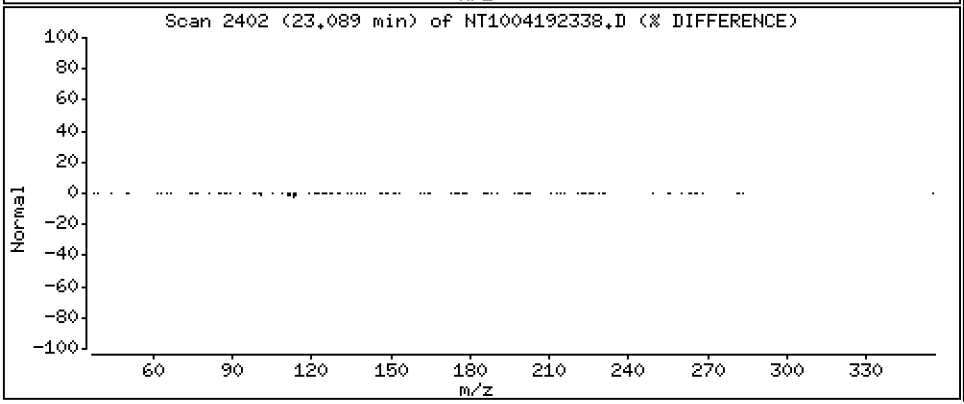












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

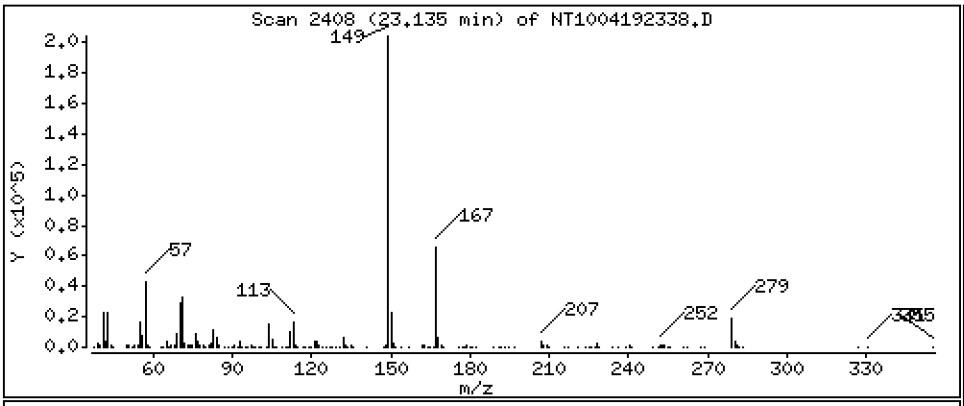
Operator: VTS

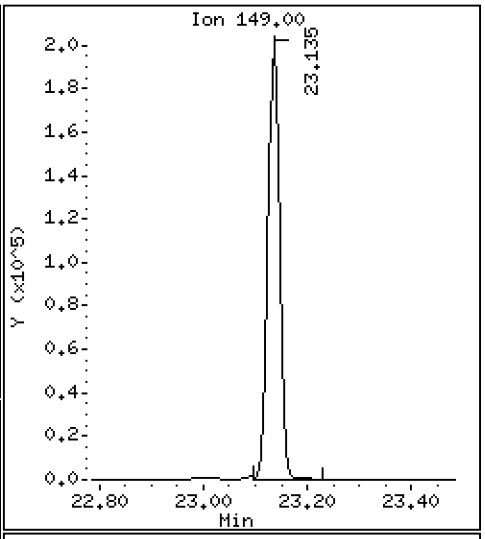
Column phase: ZB-5msi

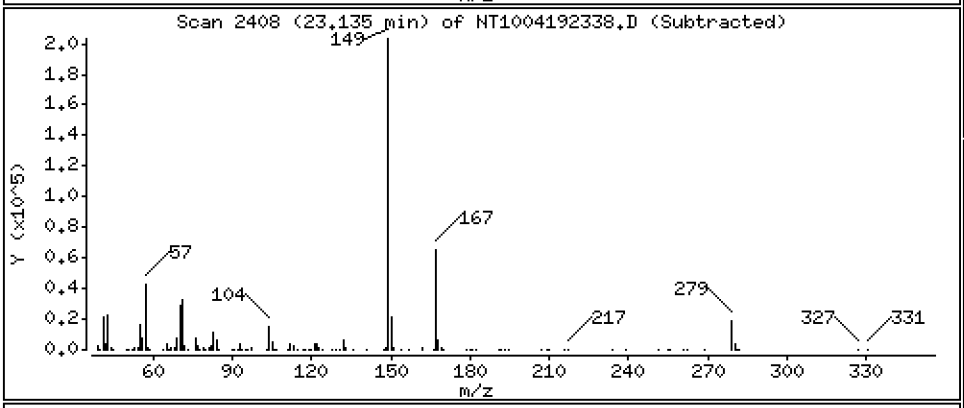
Column diameter: 0.25

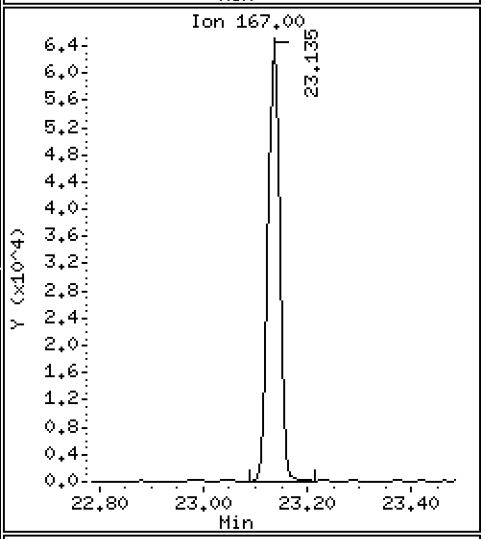
72 bis(2-Ethylhexyl)phthalate

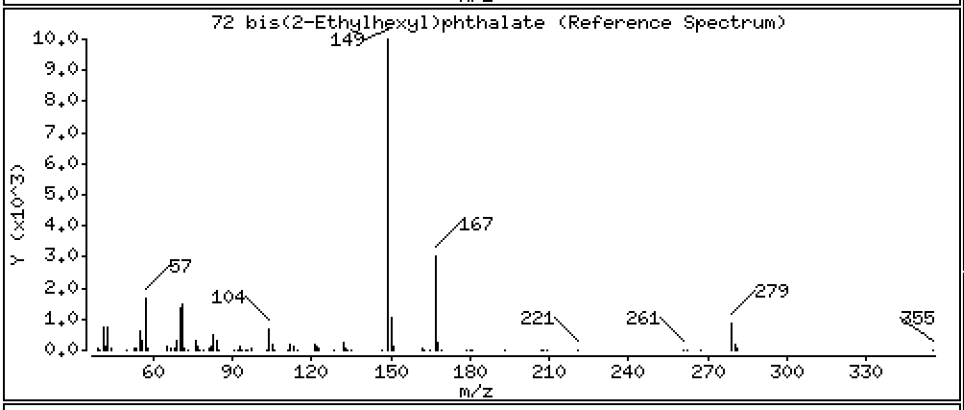
Concentration: 3.099 ug/mL

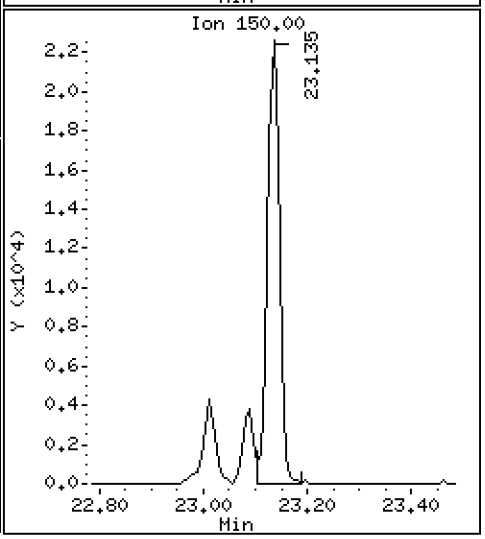


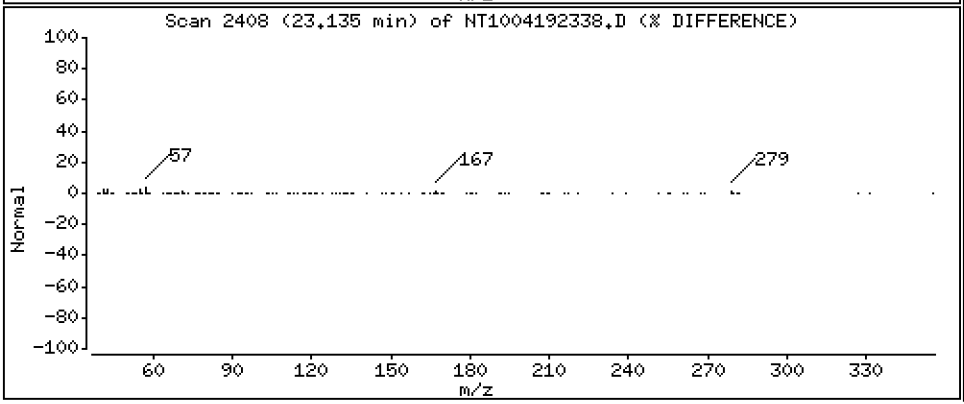












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

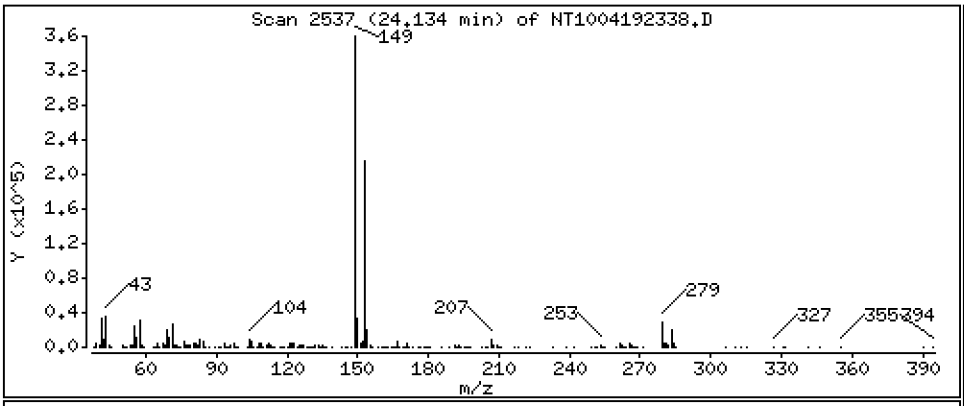
Operator: VTS

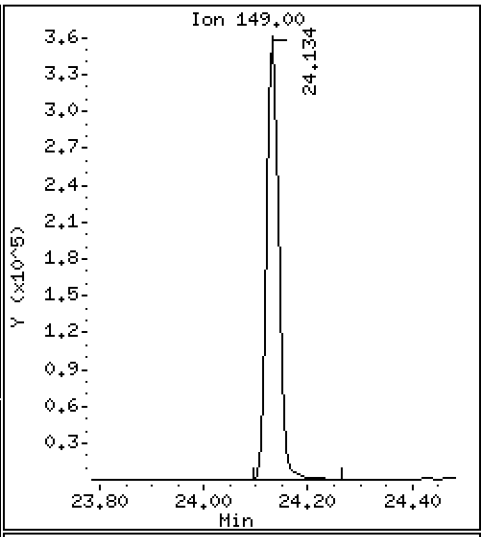
Column phase: ZB-5msi

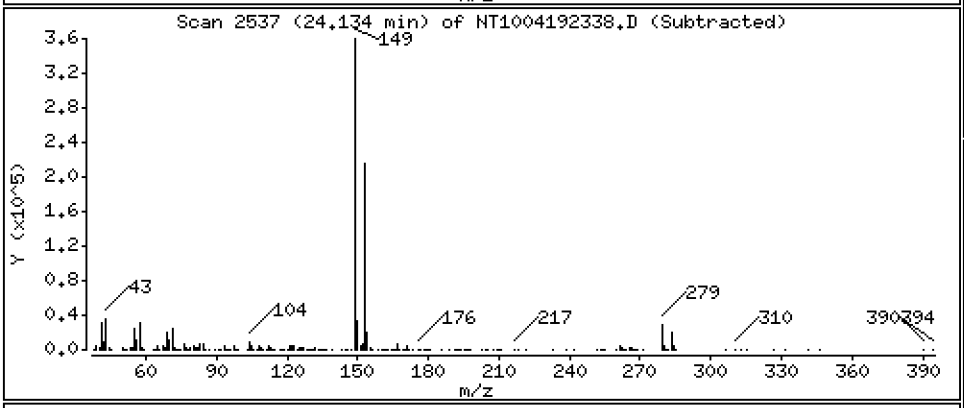
Column diameter: 0.25

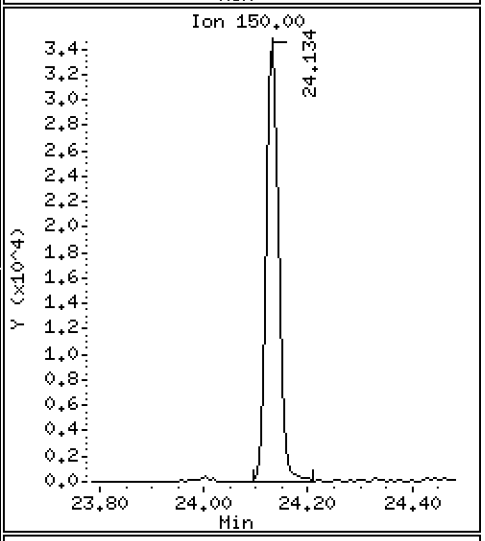
73 Di-n-octylphthalate

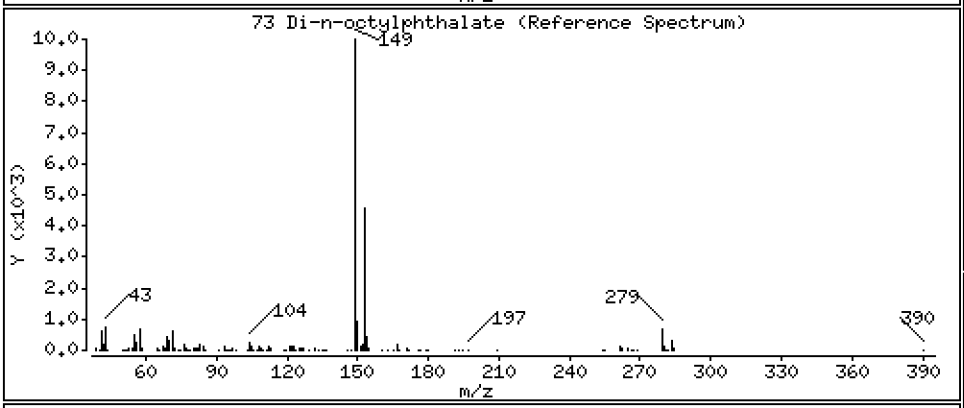
Concentration: 3.226 ug/mL

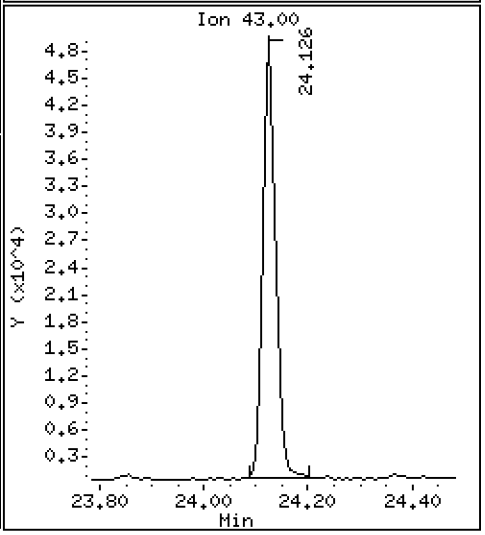


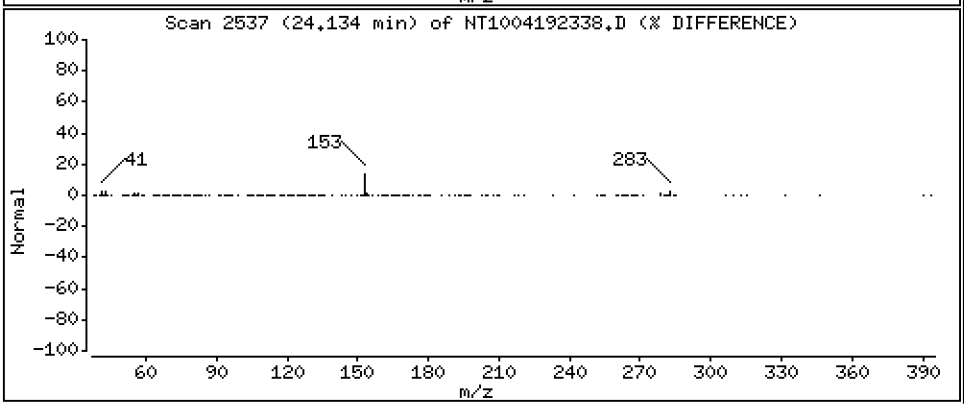












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

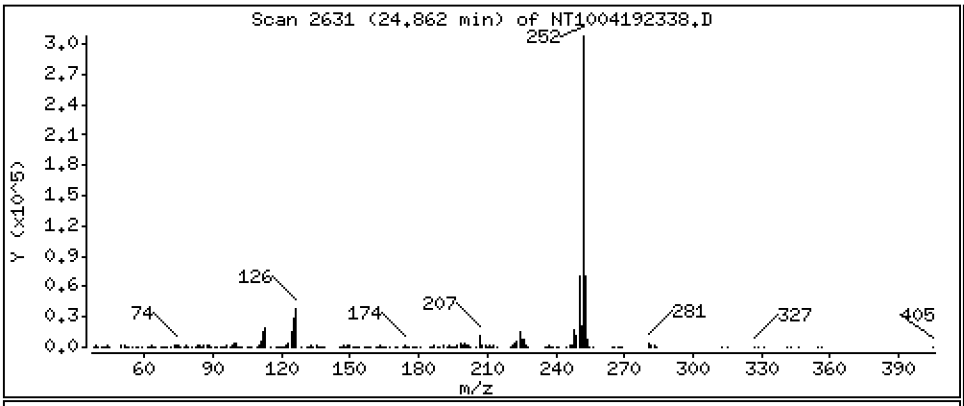
Operator: VTS

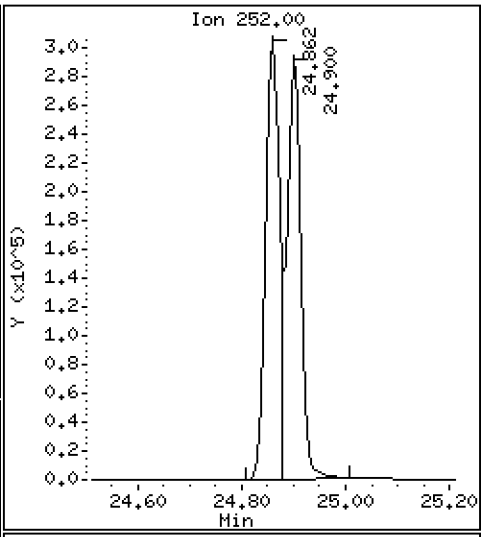
Column phase: ZB-5msi

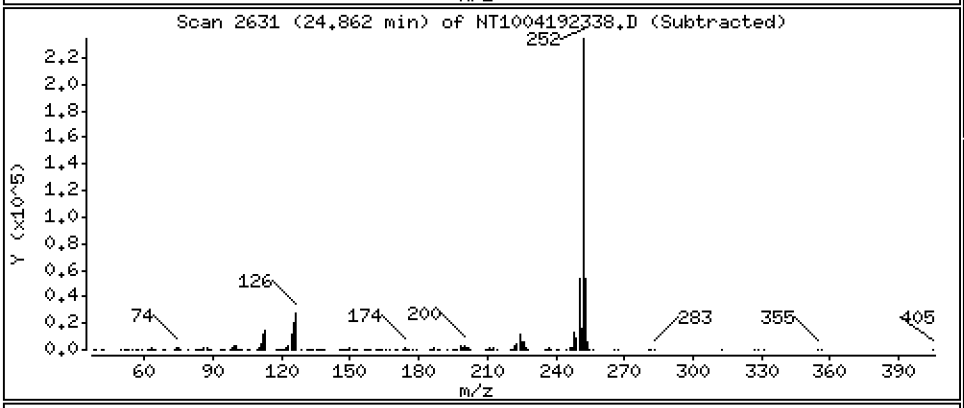
Column diameter: 0.25

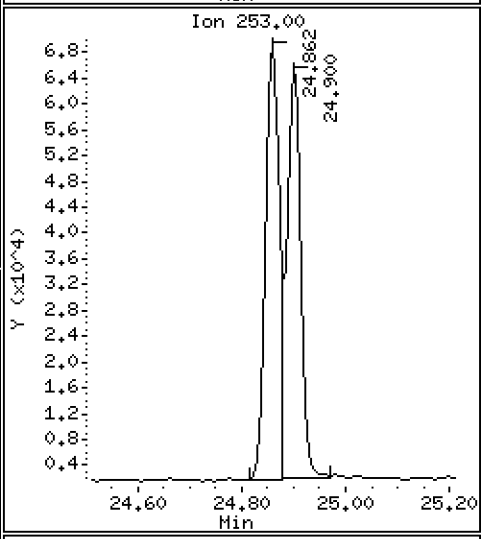
74 Benzo(b)fluoranthene

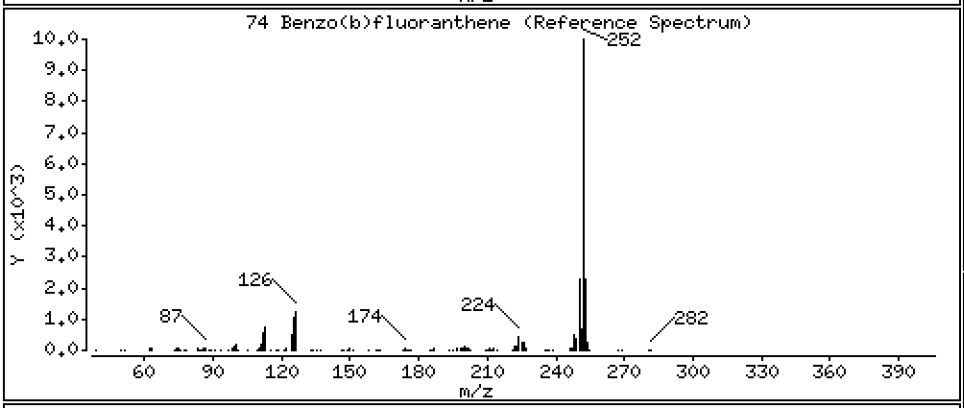
Concentration: 3.211 ug/mL

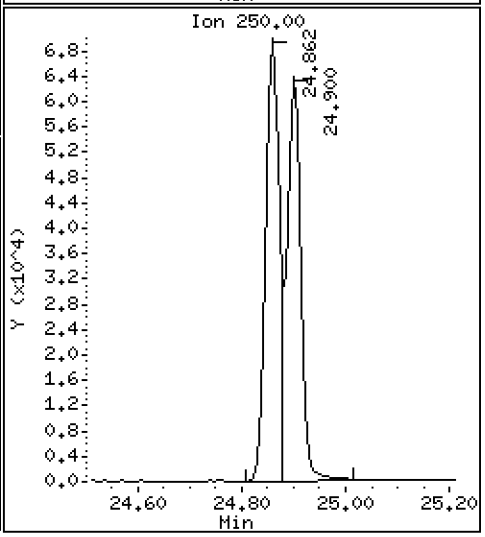


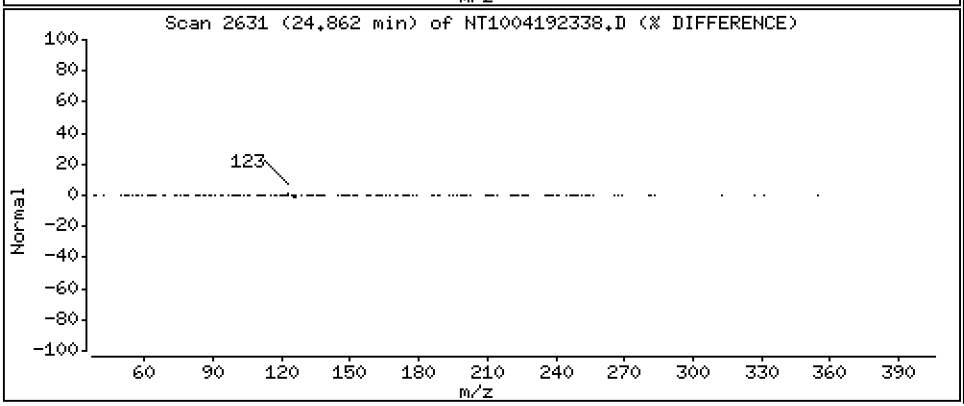












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

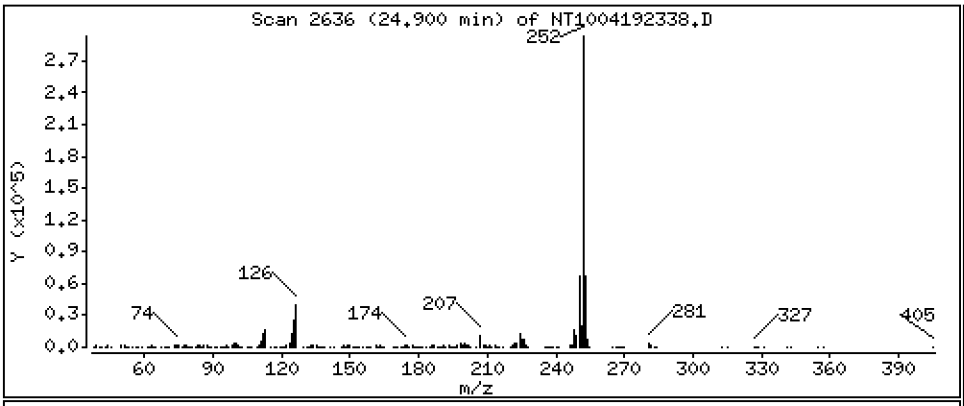
Operator: VTS

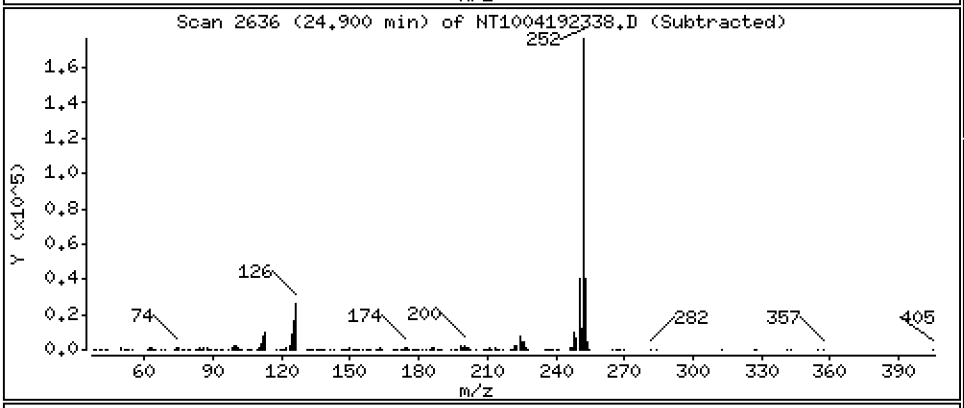
Column phase: ZB-5msi

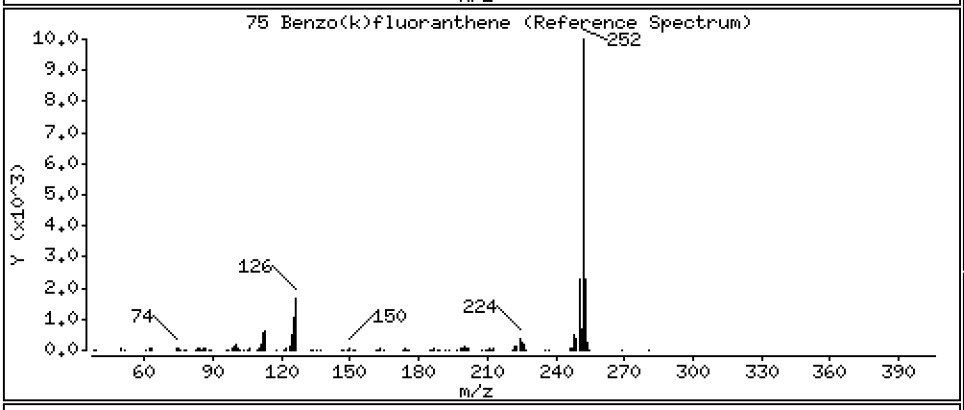
Column diameter: 0.25

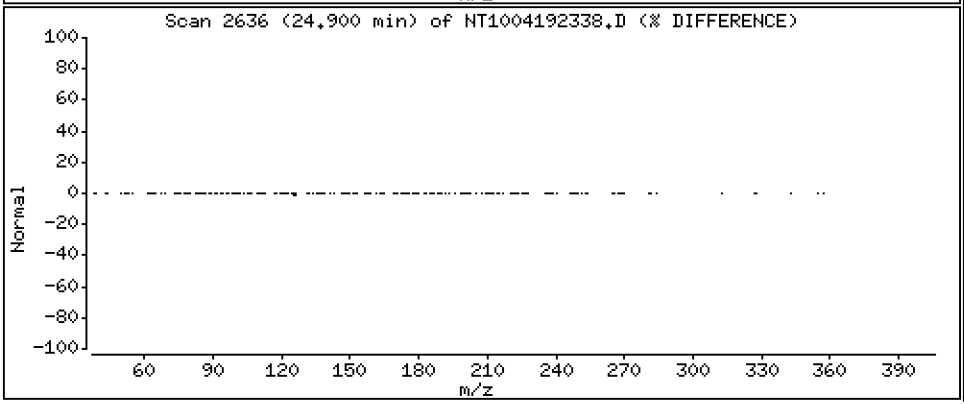
75 Benzo(k)fluoranthene

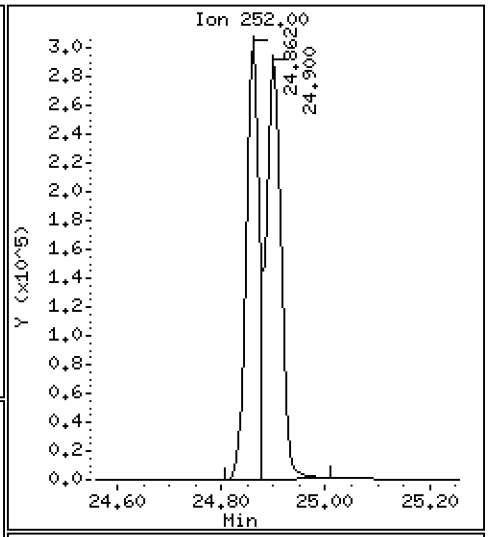
Concentration: 3.524 ug/mL

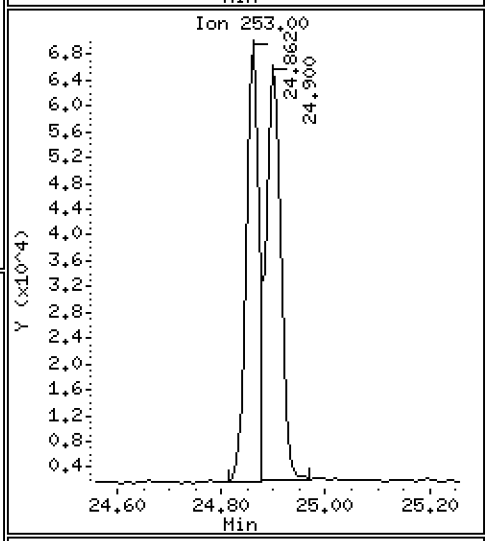


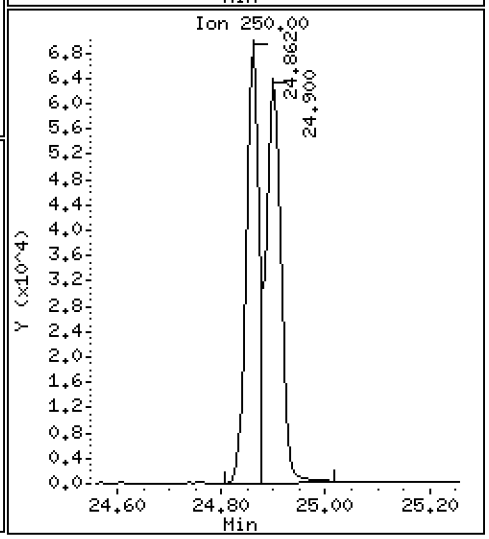












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

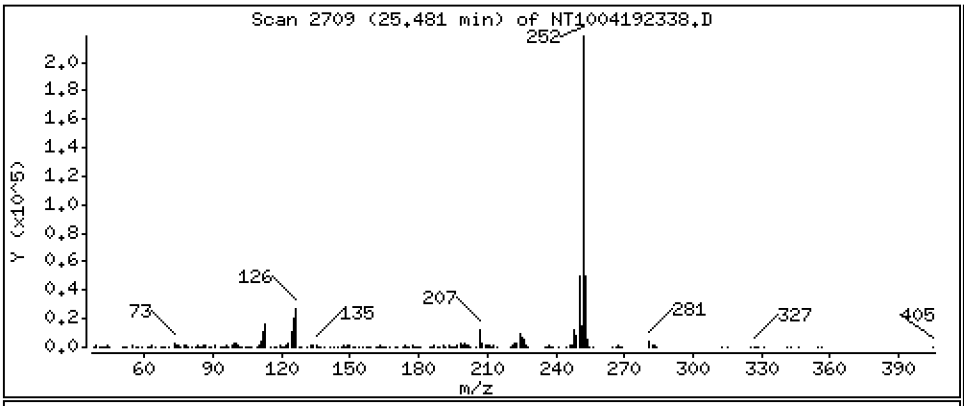
Operator: VTS

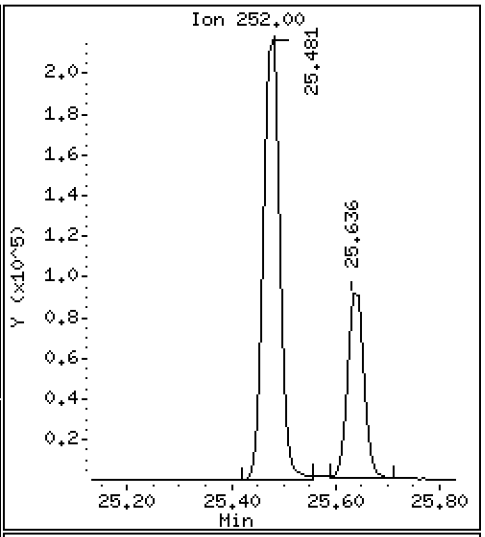
Column phase: ZB-5msi

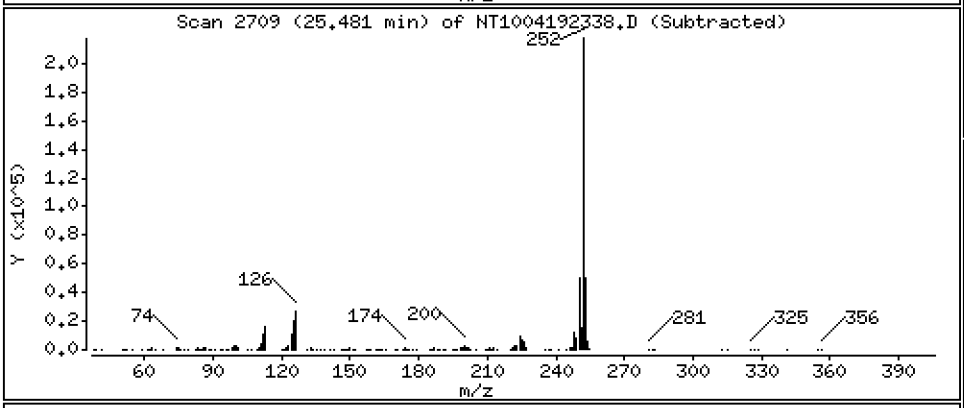
Column diameter: 0.25

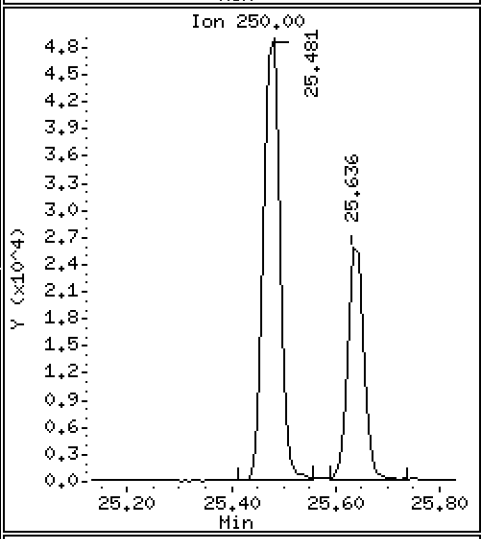
76 Benzo(a)pyrene

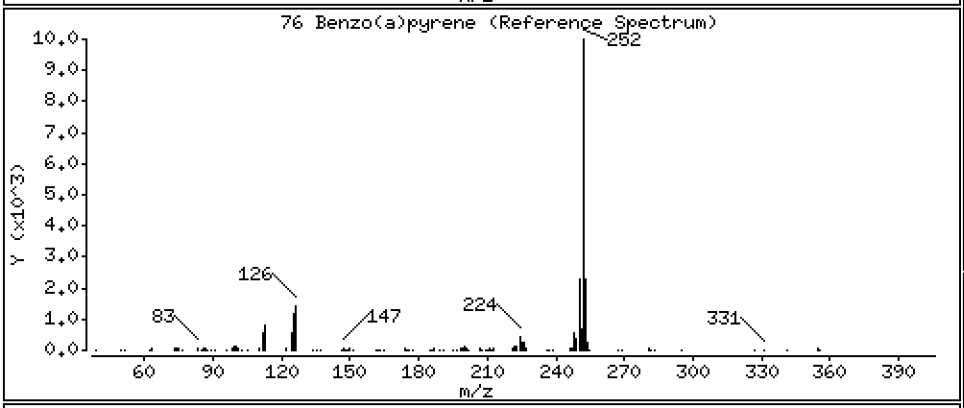
Concentration: 3.021 ug/mL

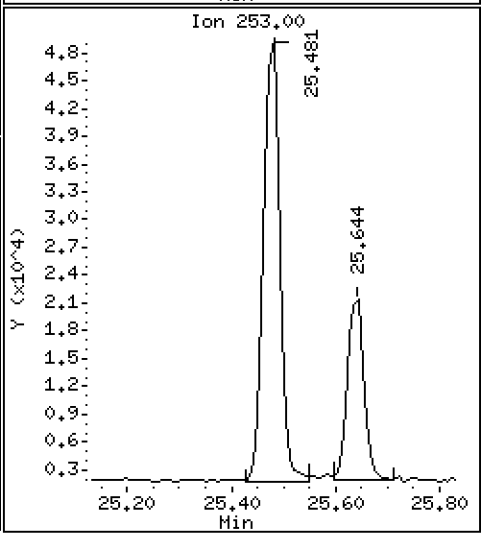


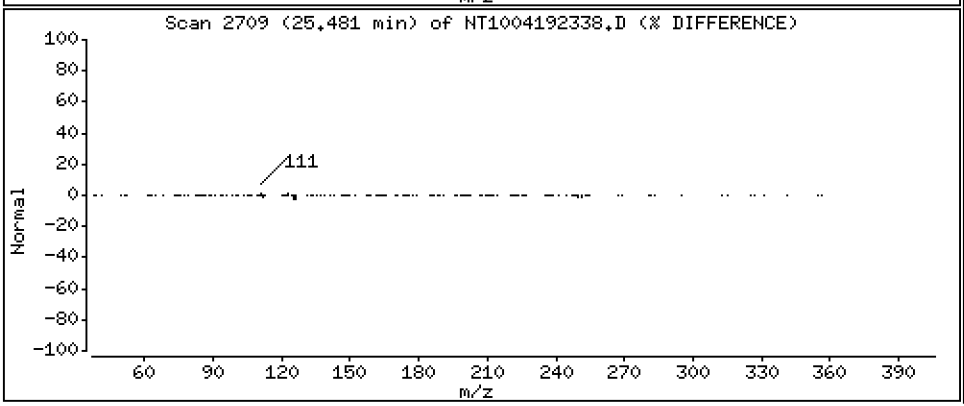












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

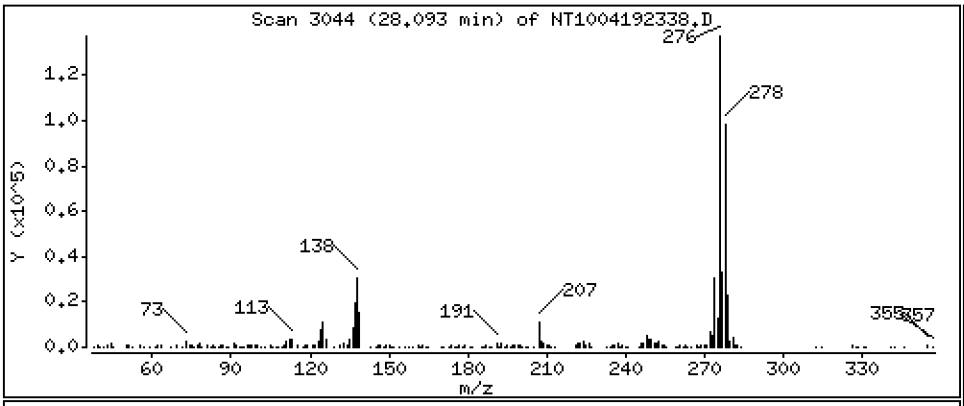
Operator: VTS

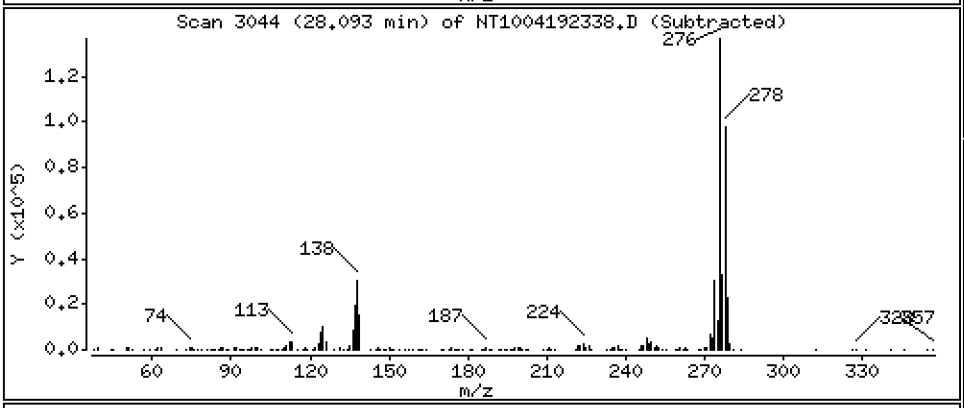
Column phase: ZB-5msi

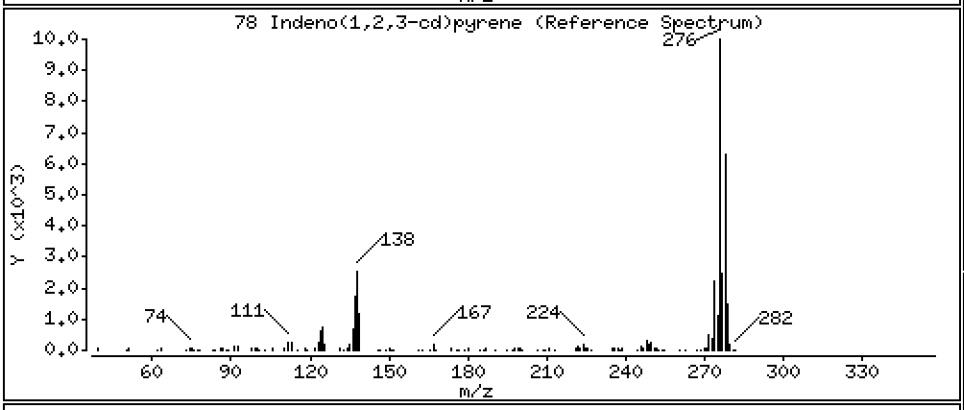
Column diameter: 0.25

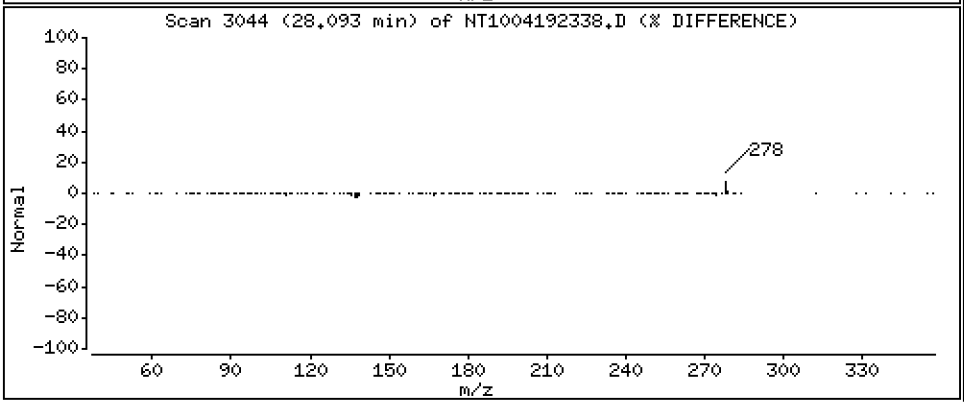
78 Indeno(1,2,3-cd)pyrene

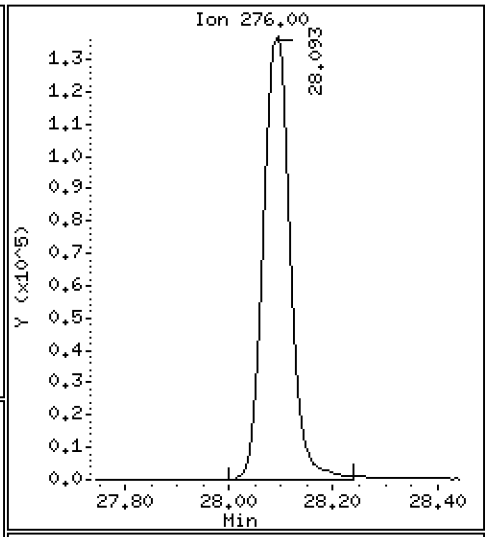
Concentration: 2.535 ug/mL

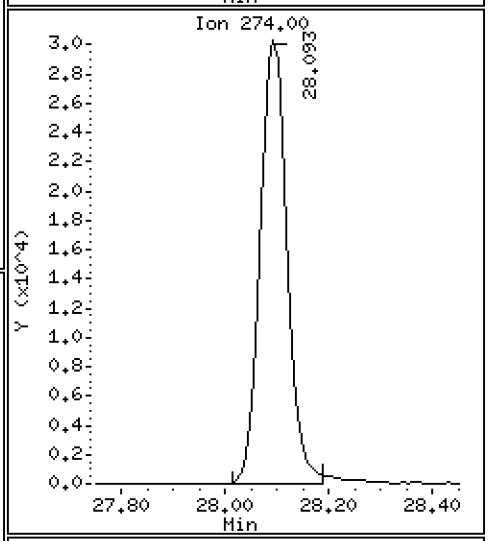


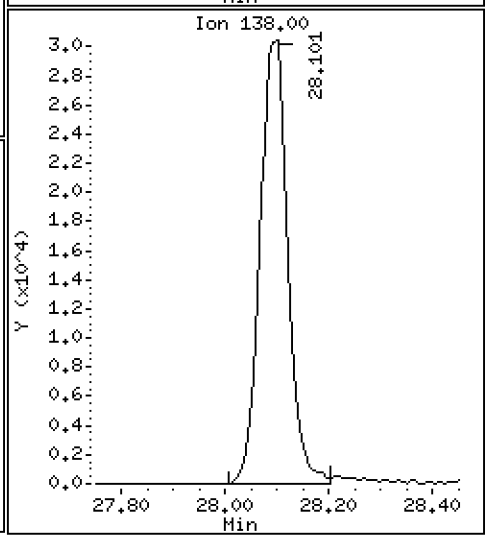












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

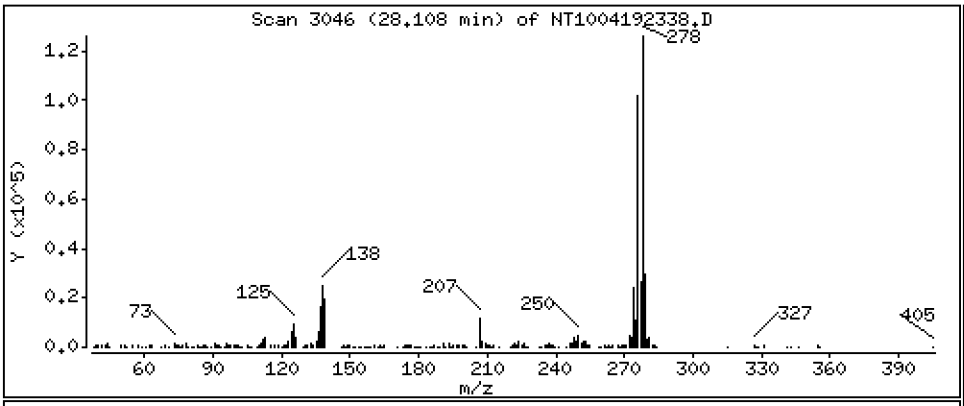
Operator: VTS

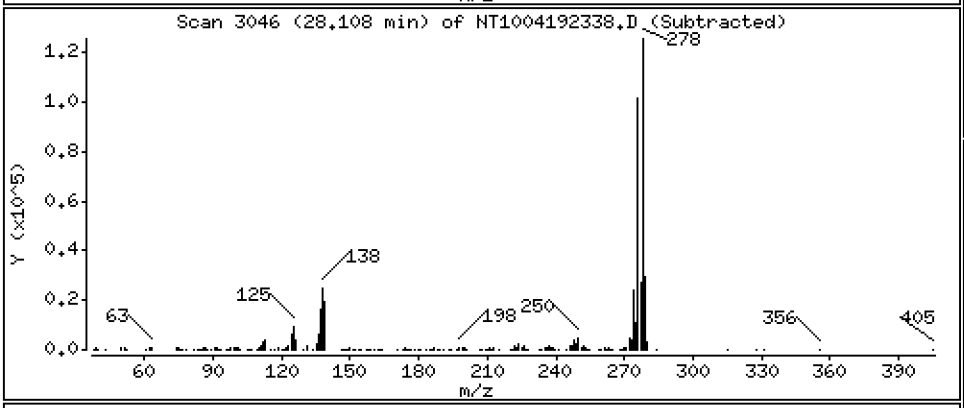
Column phase: ZB-5msi

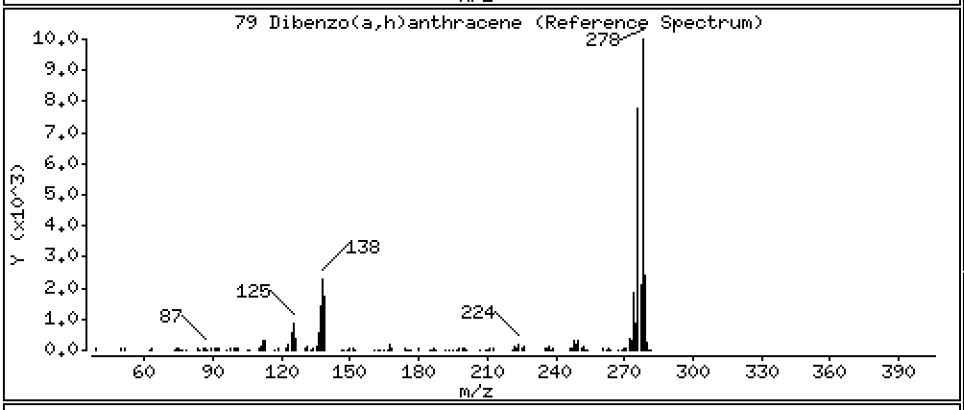
Column diameter: 0.25

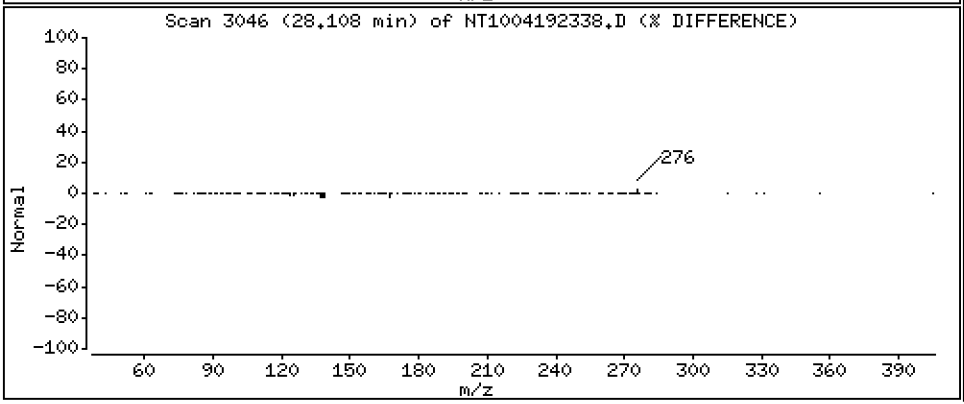
79 Dibenzo(a,h)anthracene

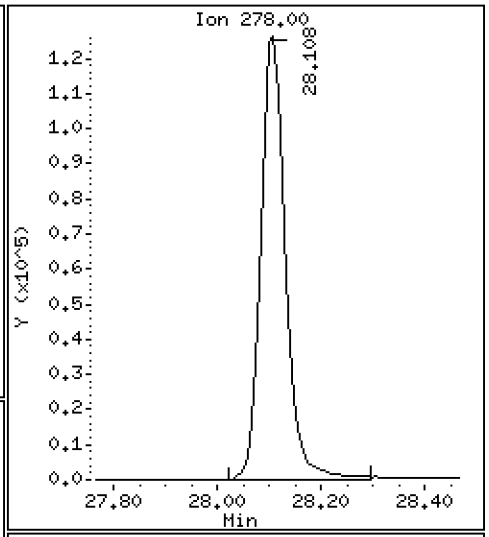
Concentration: 2.564 ug/mL

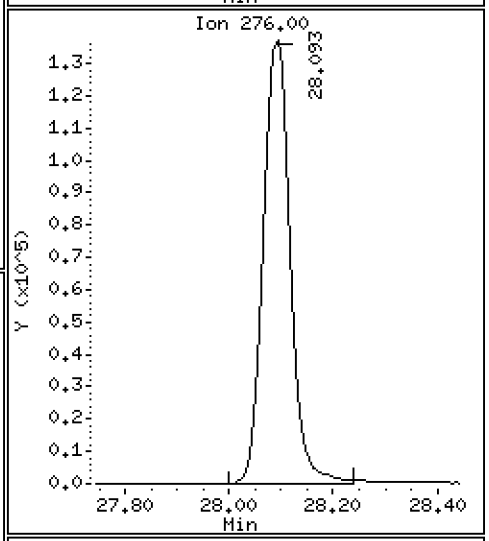


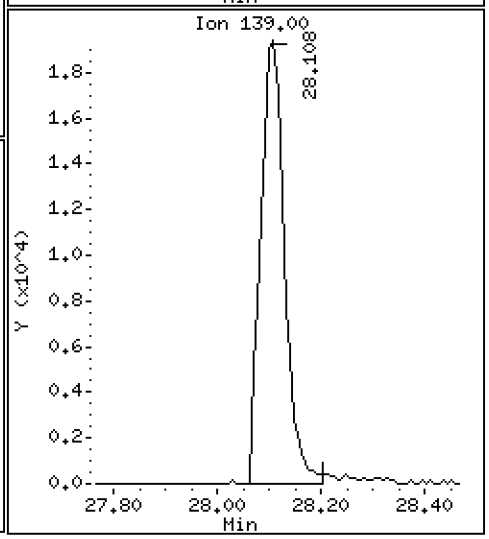












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

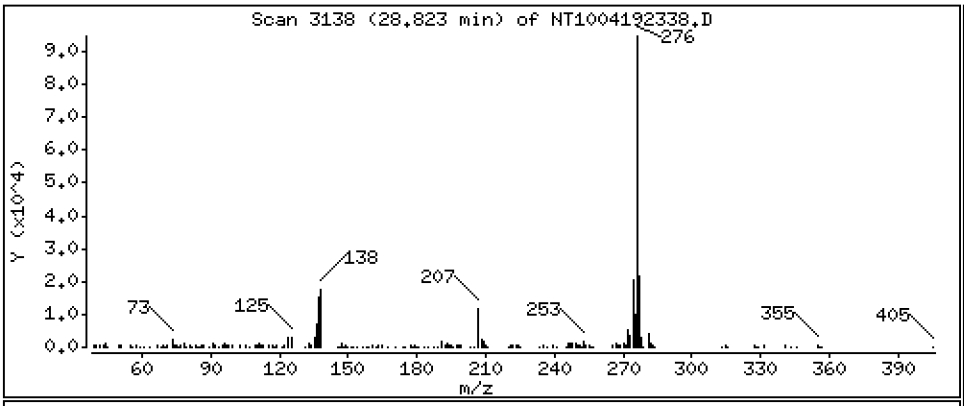
Operator: VTS

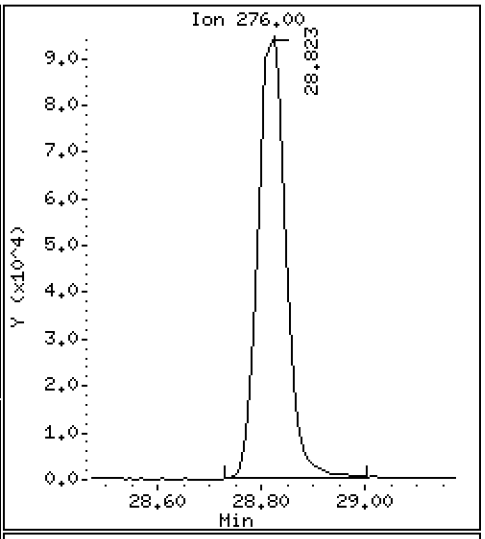
Column phase: ZB-5msi

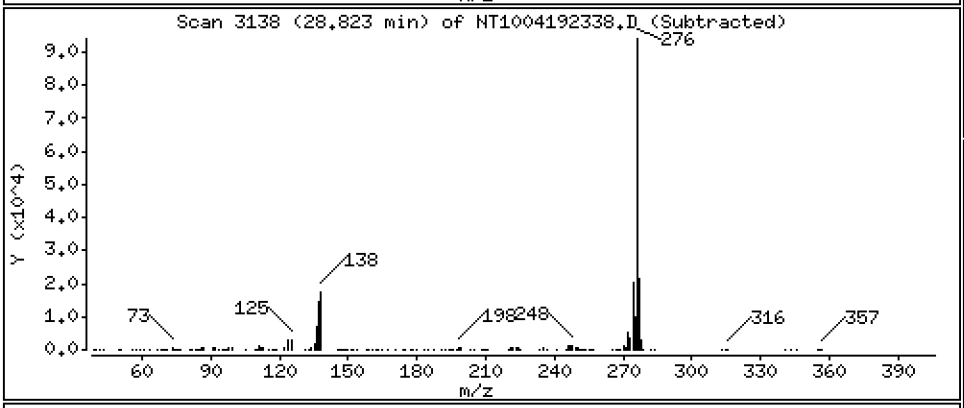
Column diameter: 0.25

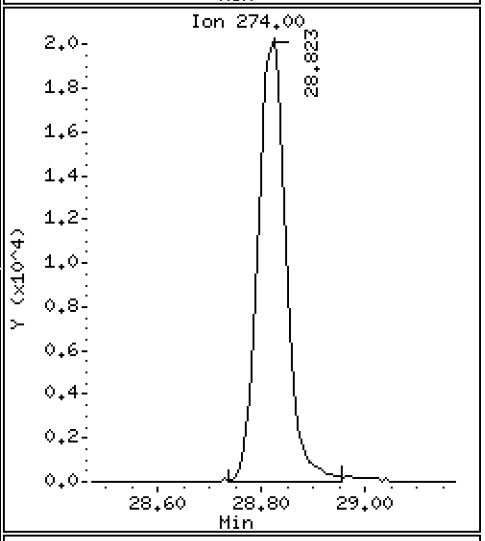
80 Benzo(g,h,i)perylene

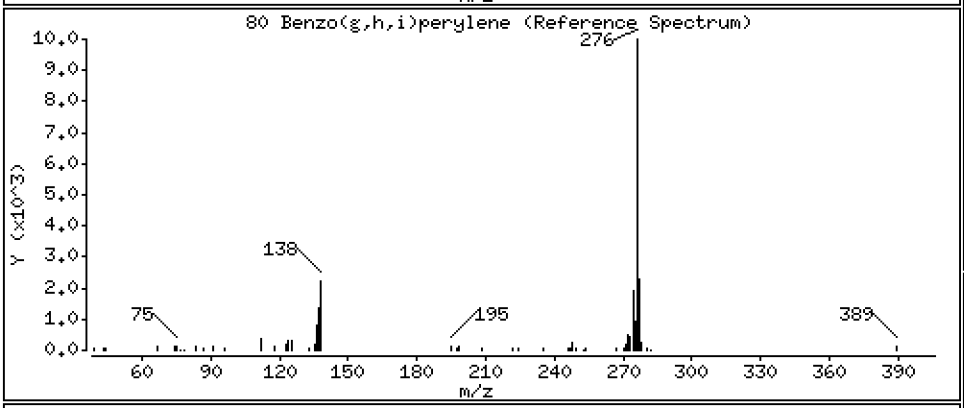
Concentration: 2.123 ug/mL

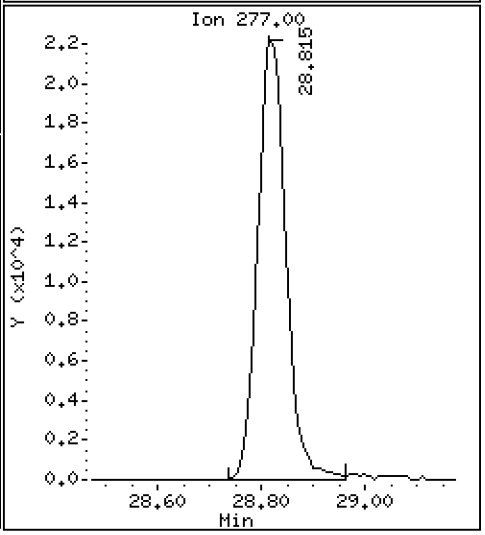


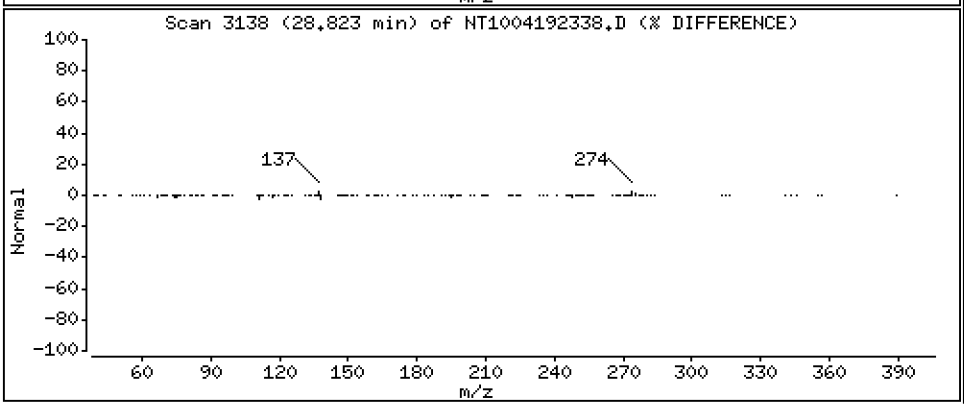












Date : 20-APR-2023 10:51

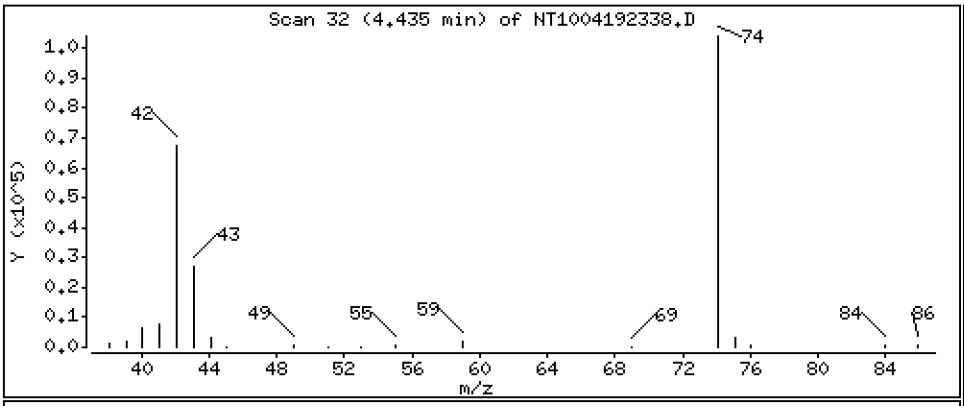
Client ID: Instrument: nt10.i

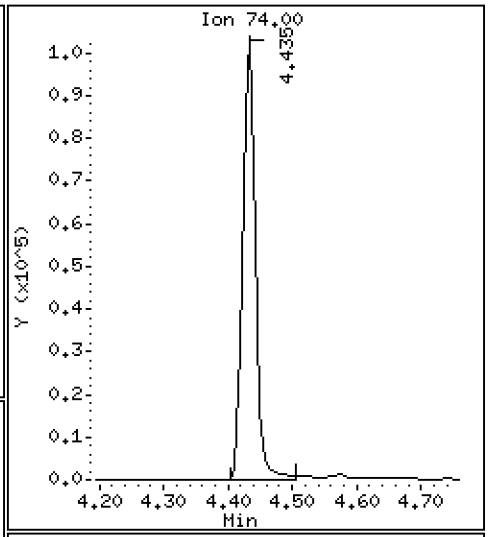
Sample Info: BLD0008-BS1

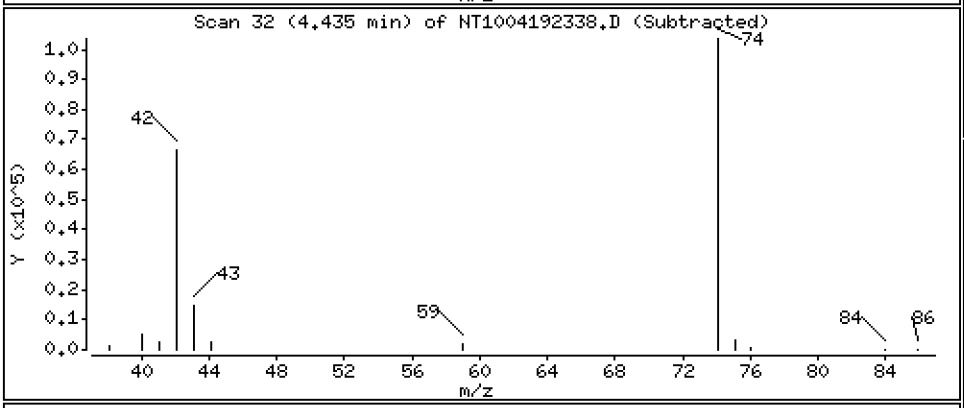
Operator: VTS

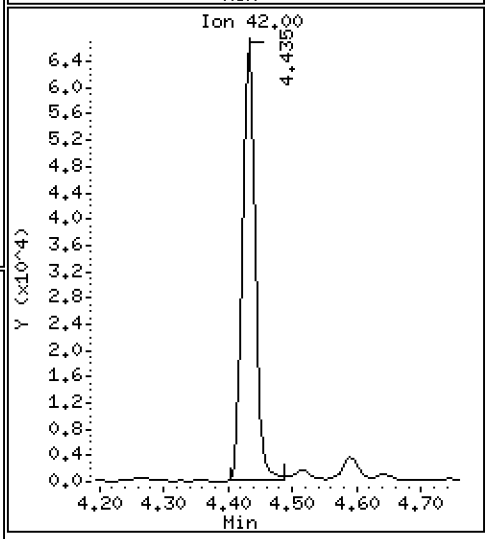
Column phase: ZB-5msi Column diameter: 0.25

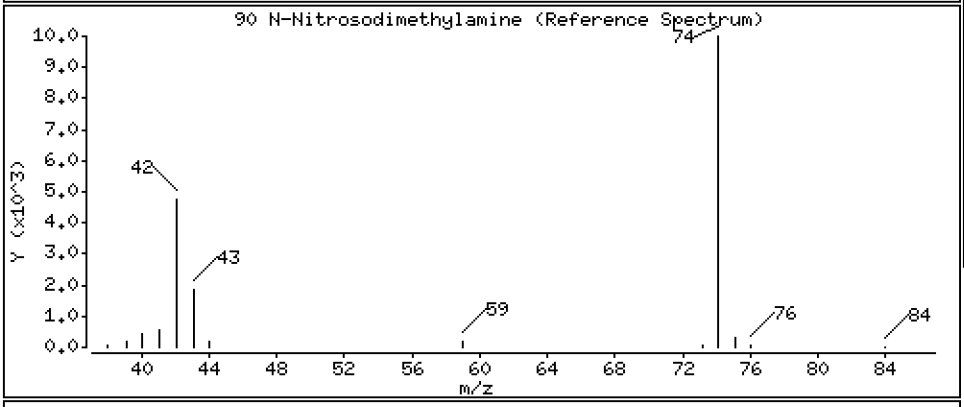
90 N-Nitrosodimethylamine Concentration: 5.839 ug/mL

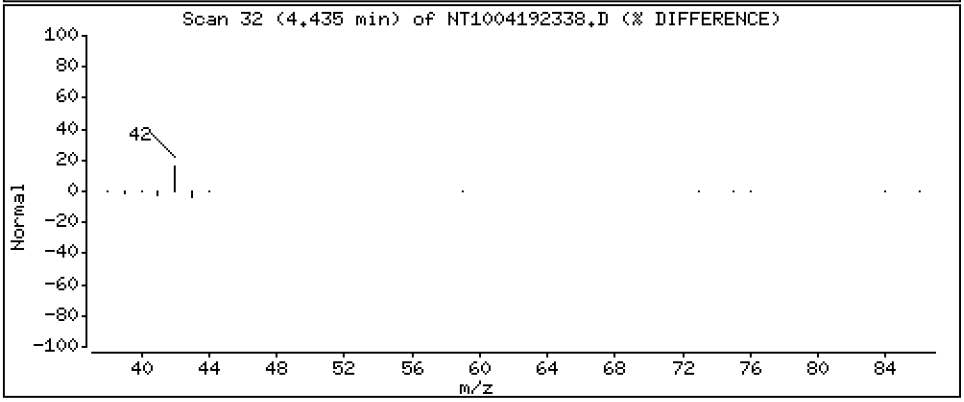












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192338.D

Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

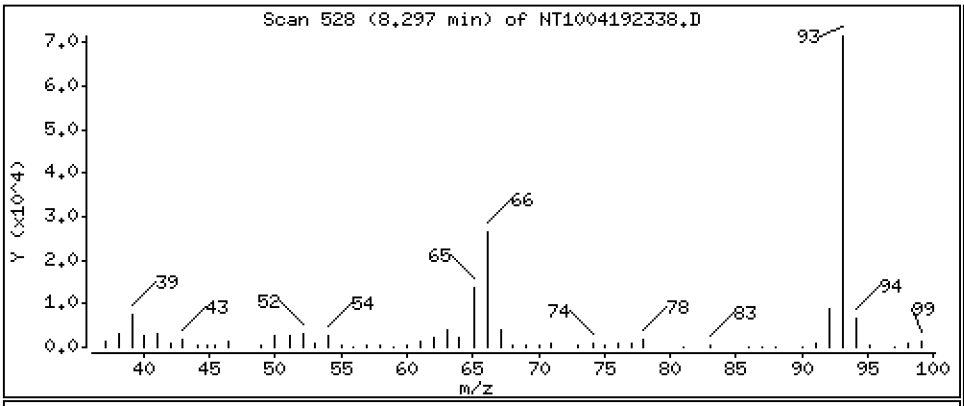
Operator: VTS

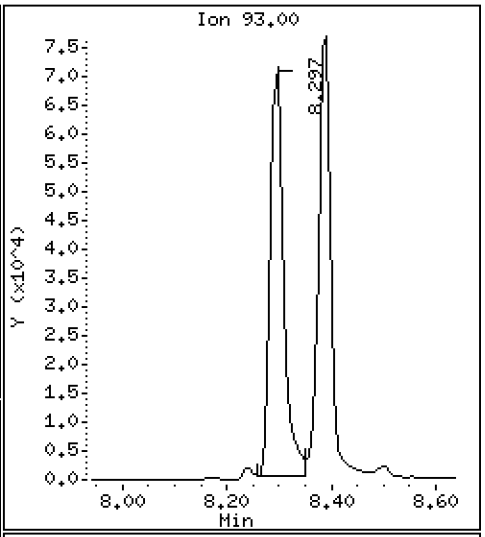
Column phase: ZB-5msi

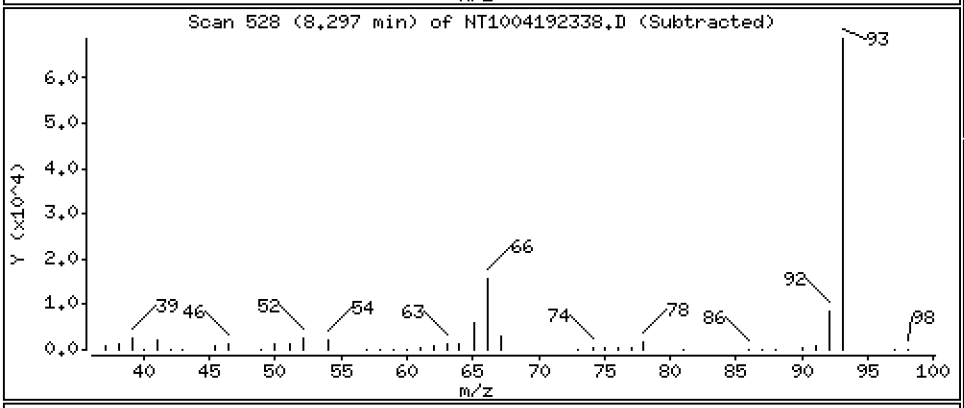
Column diameter: 0.25

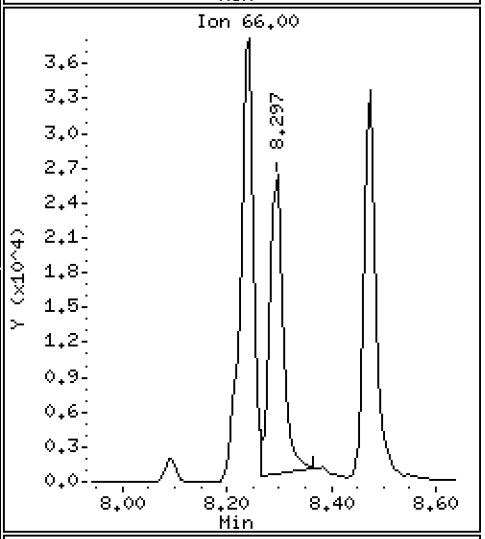
91 Aniline

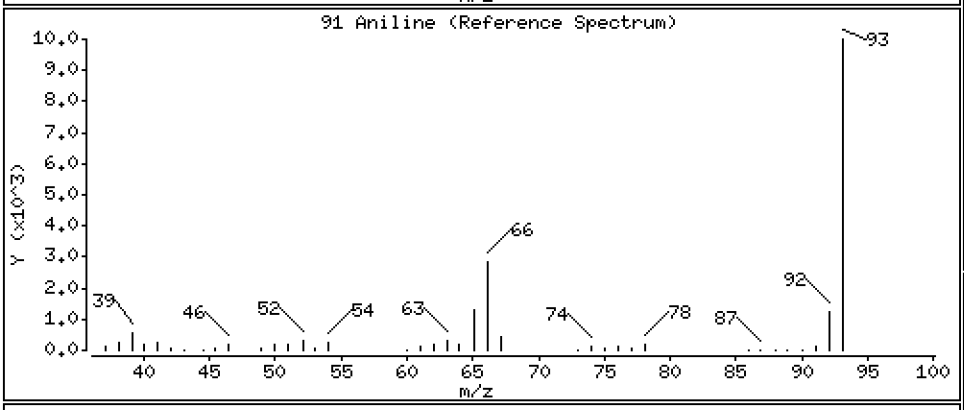
Concentration: 2.252 ug/mL

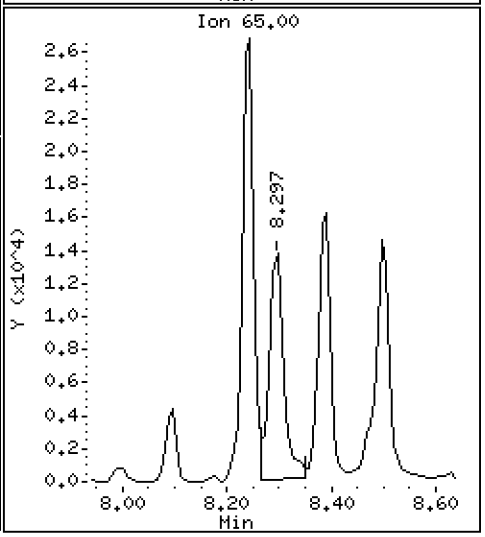


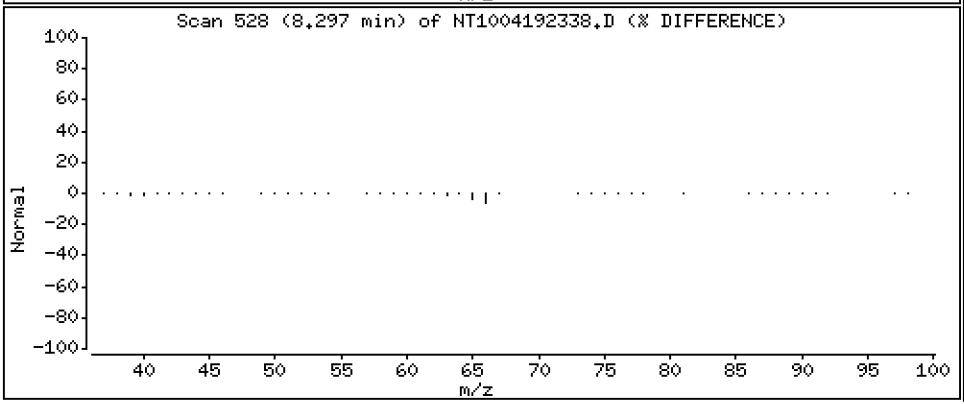












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

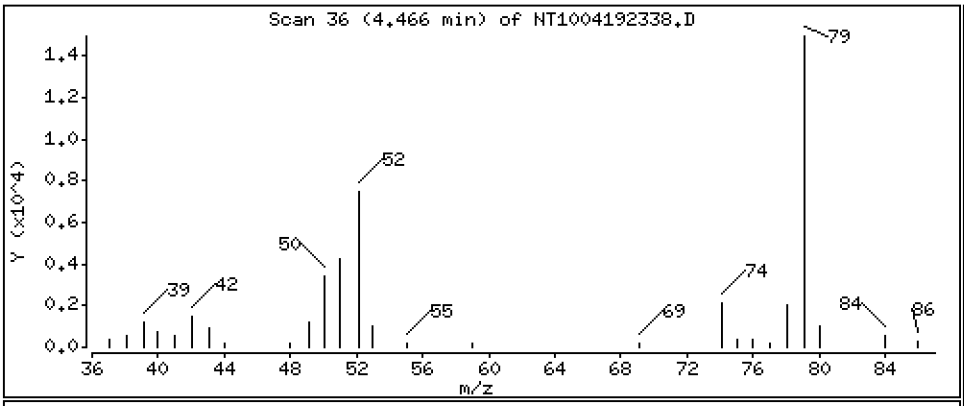
Operator: VTS

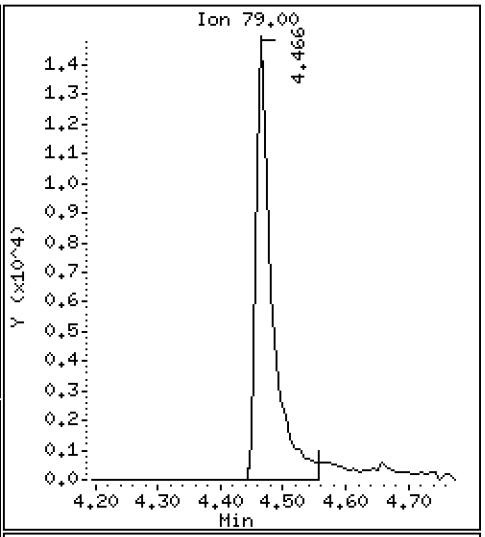
Column phase: ZB-5msi

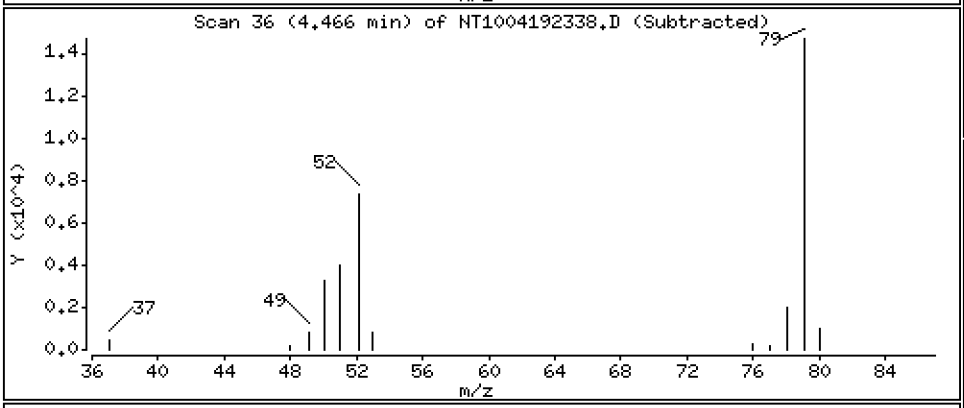
Column diameter: 0.25

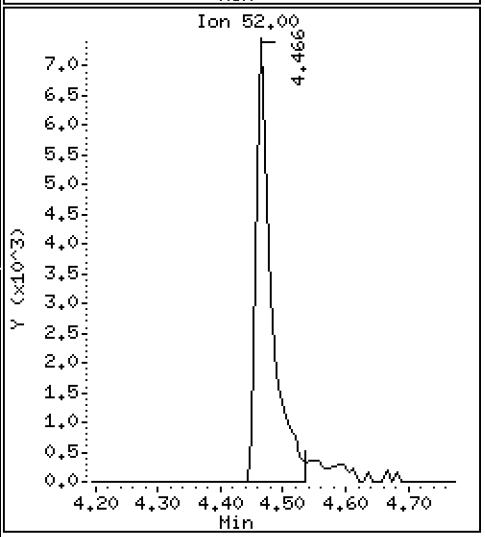
103 Pyridine

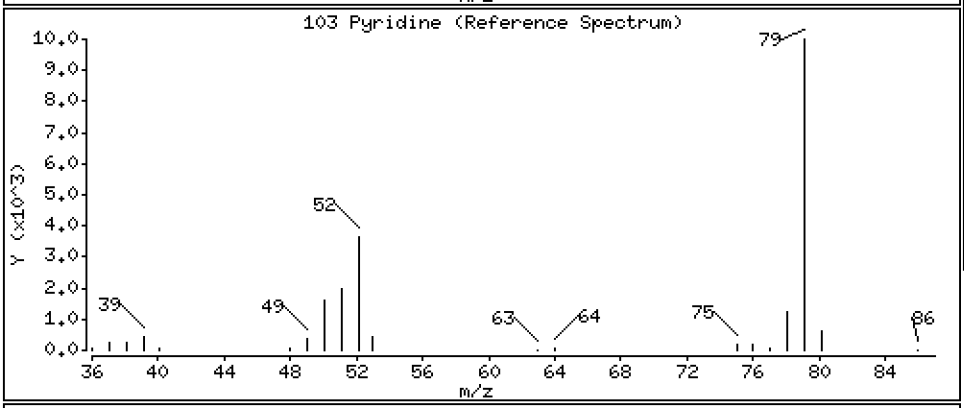
Concentration: 0.7135 ug/mL

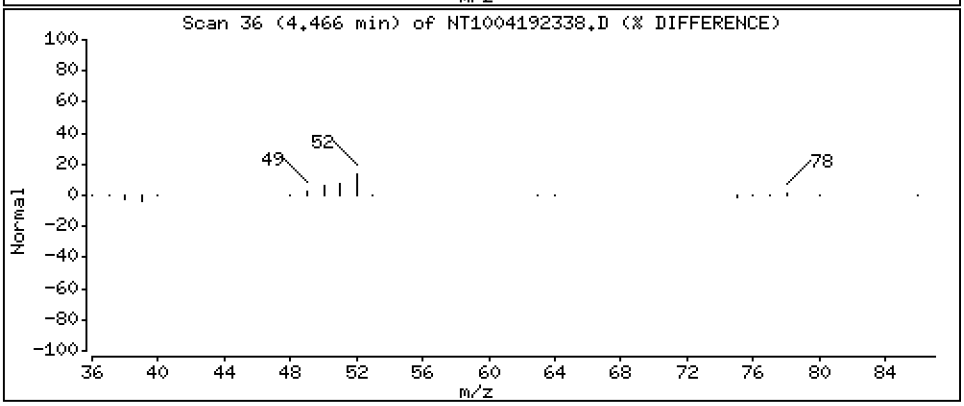












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

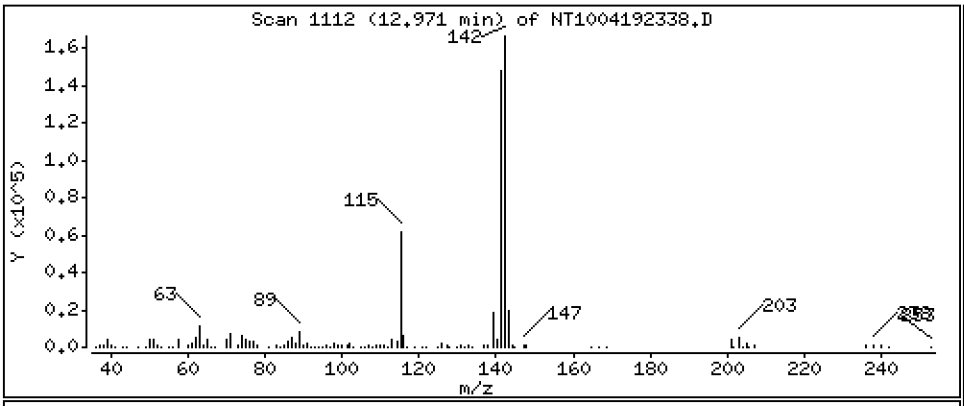
Operator: VTS

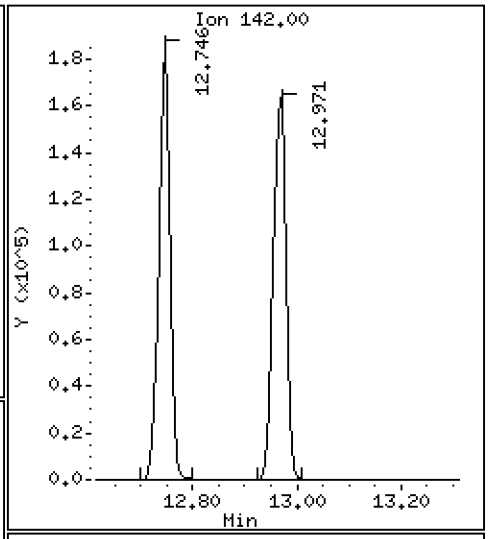
Column phase: ZB-5msi

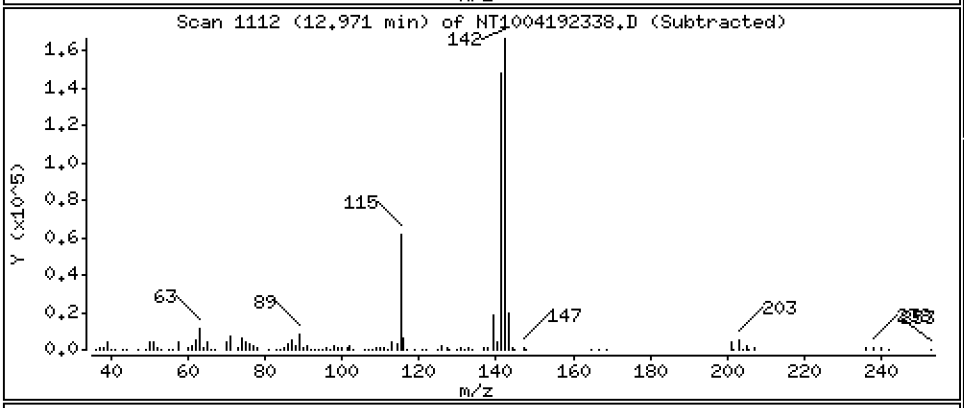
Column diameter: 0.25

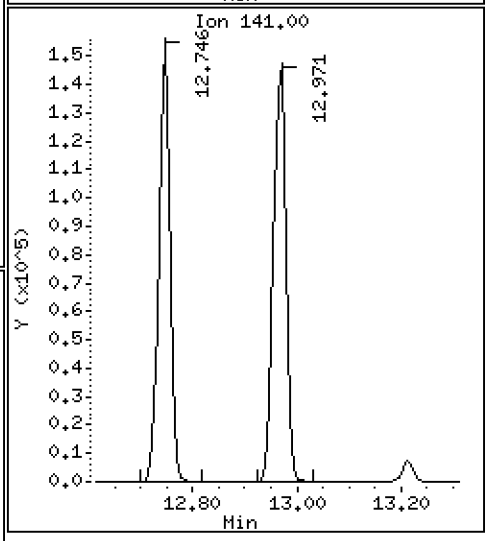
105 1-methylnaphthalene

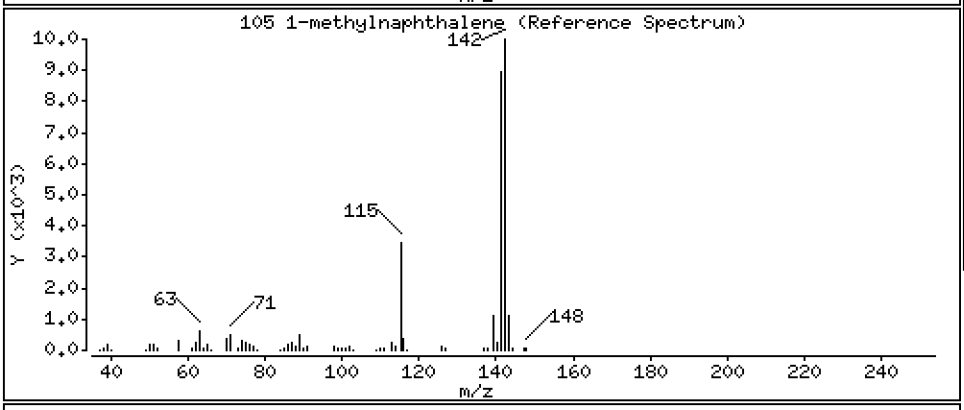
Concentration: 3.186 ug/mL

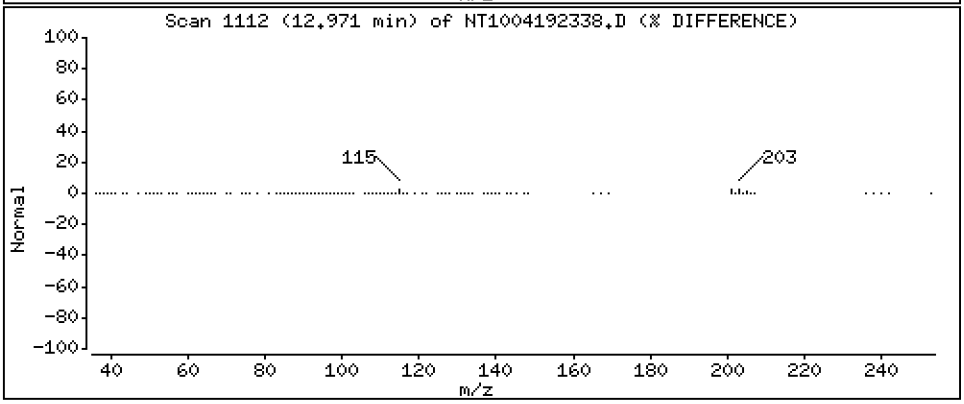












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192338.D

Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

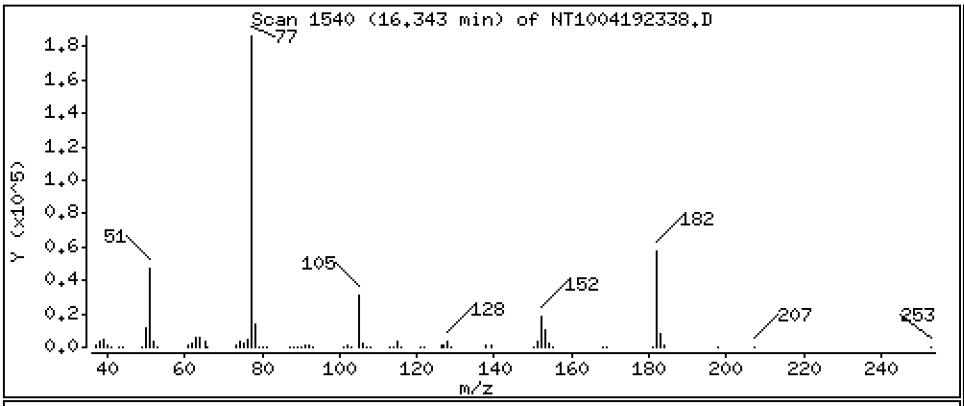
Operator: VTS

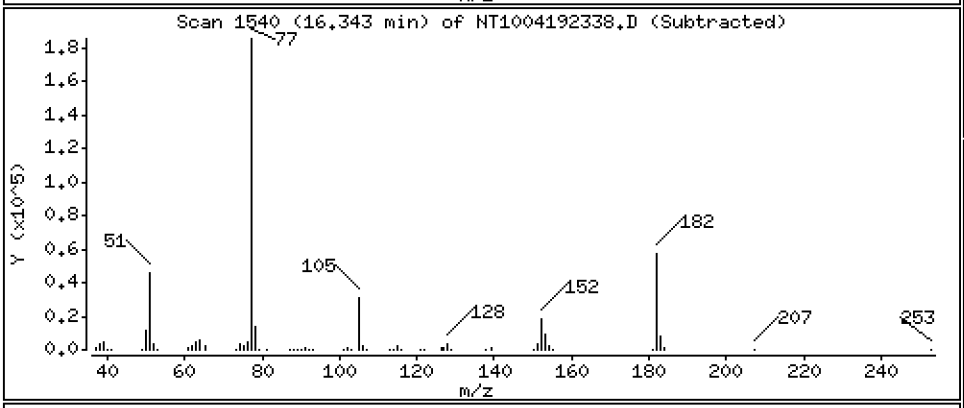
Column phase: ZB-5msi

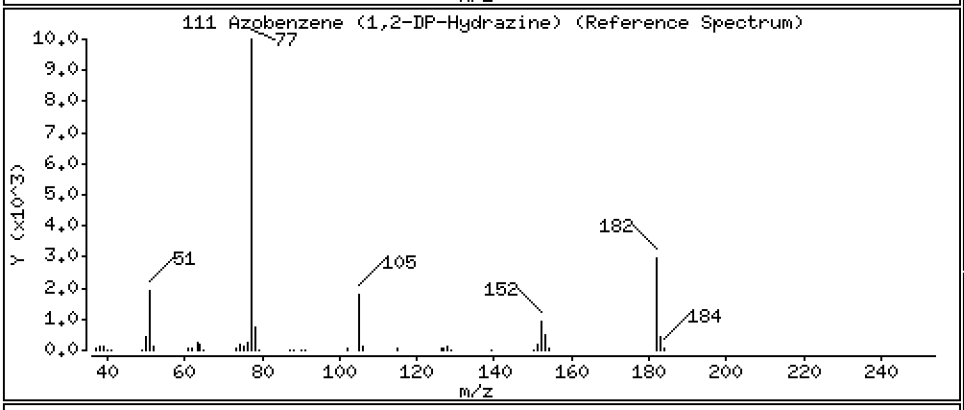
Column diameter: 0.25

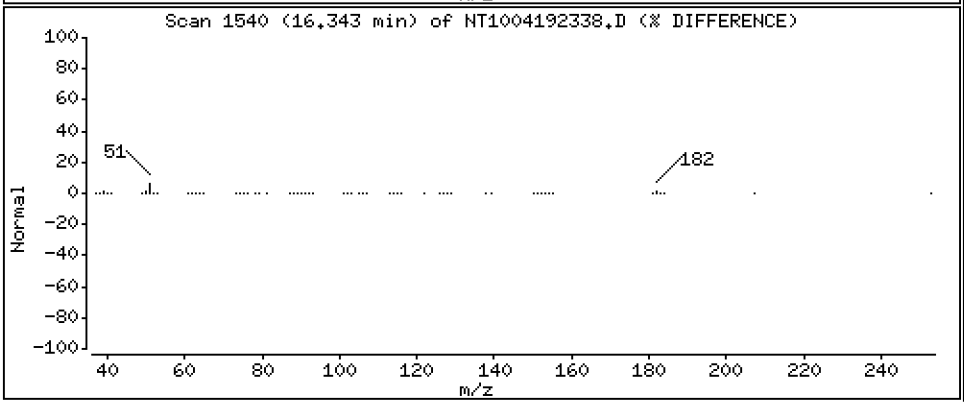
111 Azobenzene (1,2-DP-Hydrazine)

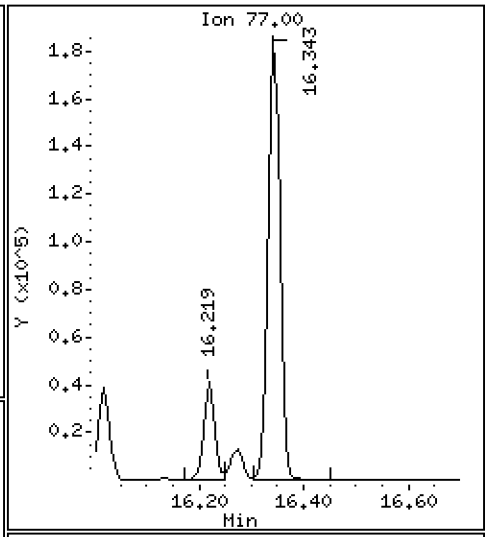
Concentration: 2.685 ug/mL

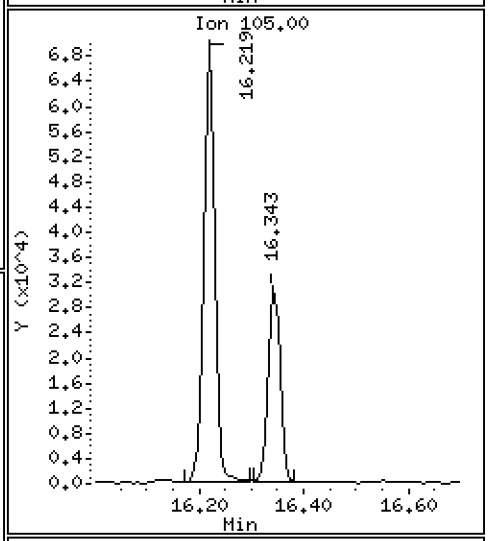


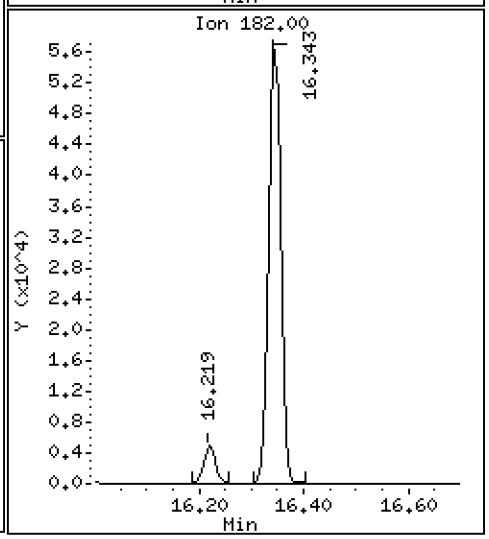












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

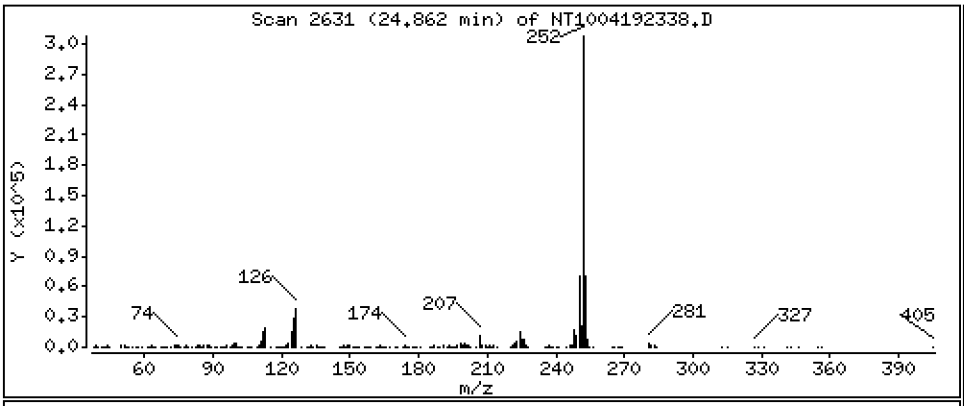
Operator: VTS

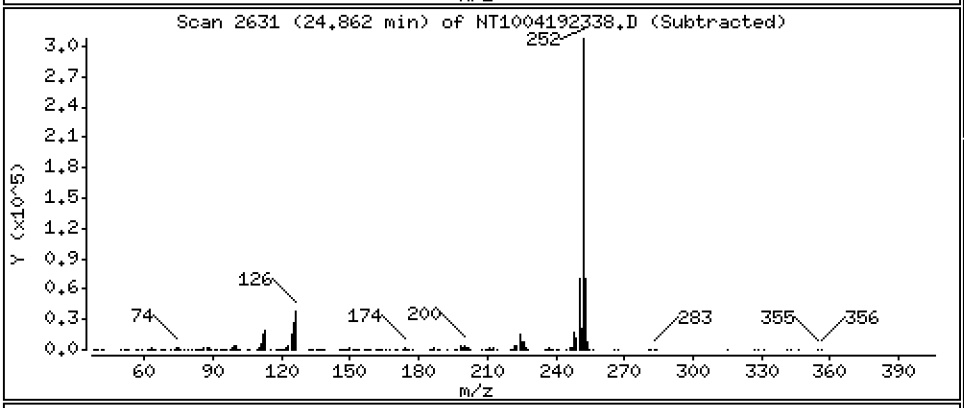
Column phase: ZB-5msi

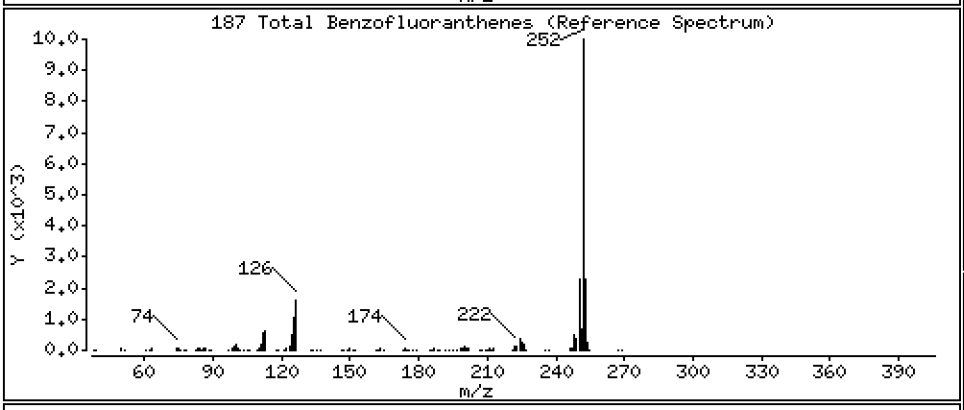
Column diameter: 0.25

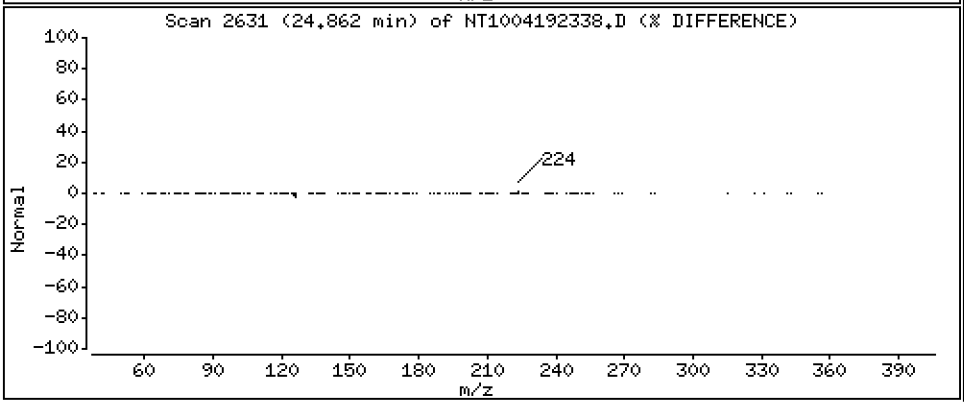
187 Total Benzofluoranthenes

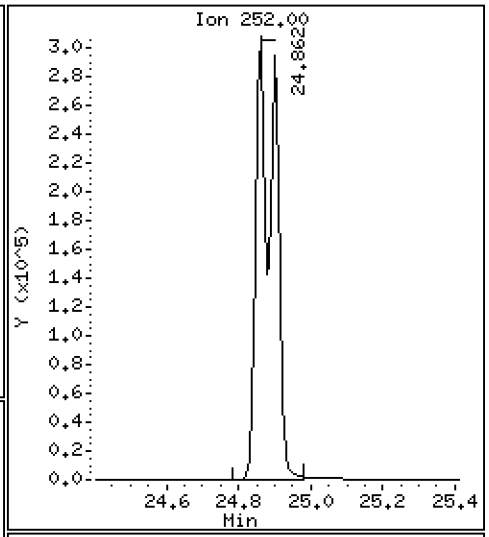
Concentration: 6.661 ug/mL

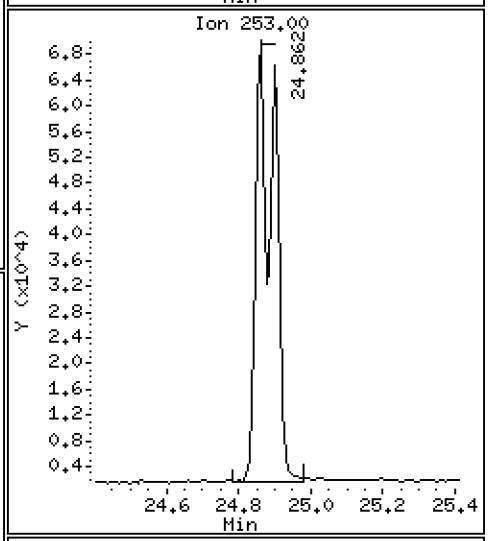


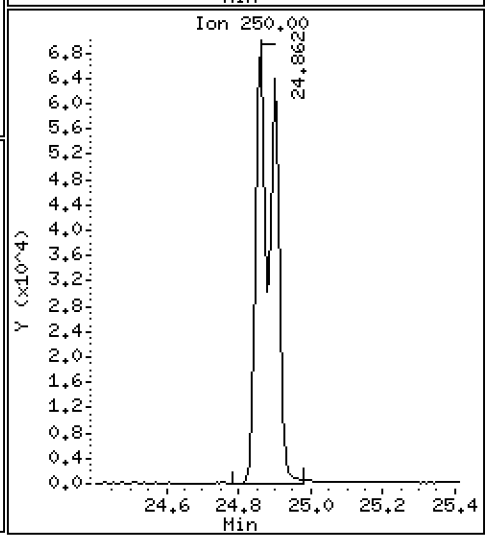












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192338.D

Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS1

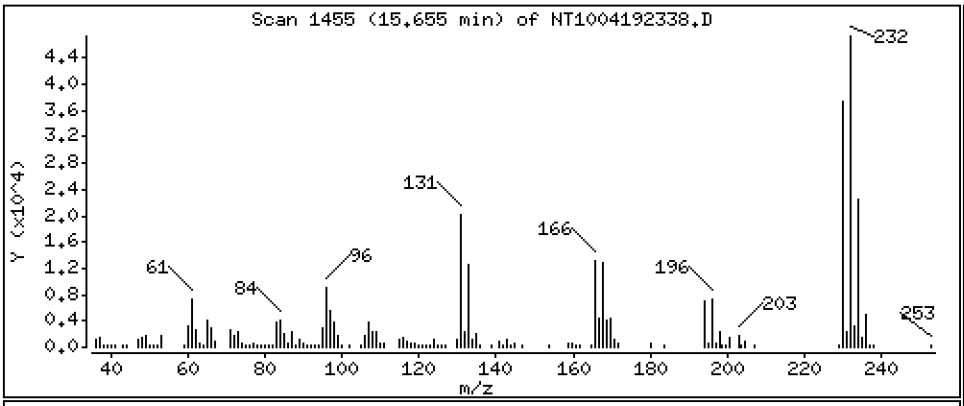
Operator: VTS

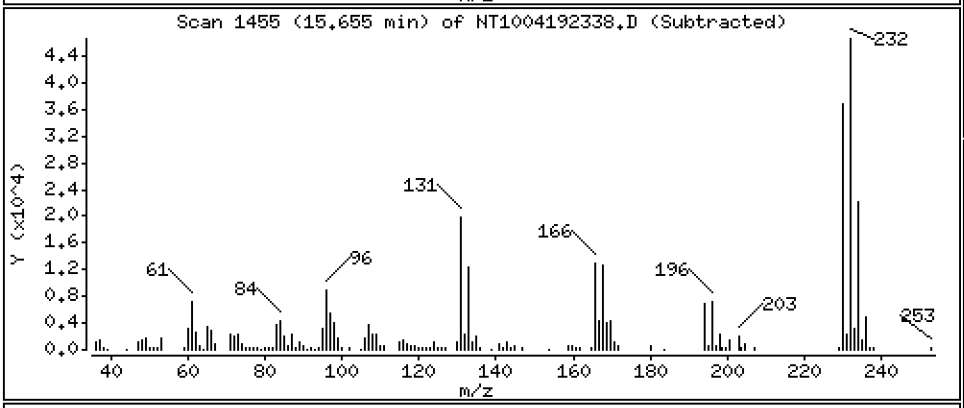
Column phase: ZB-5msi

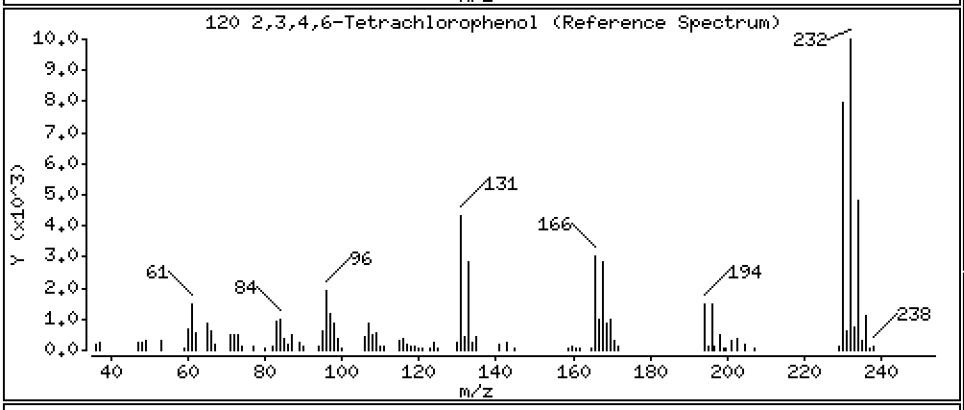
Column diameter: 0.25

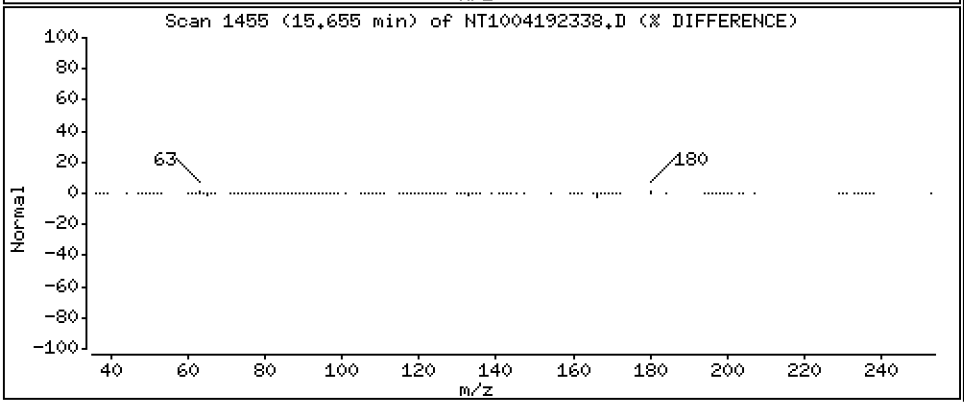
120 2,3,4,6-Tetrachlorophenol

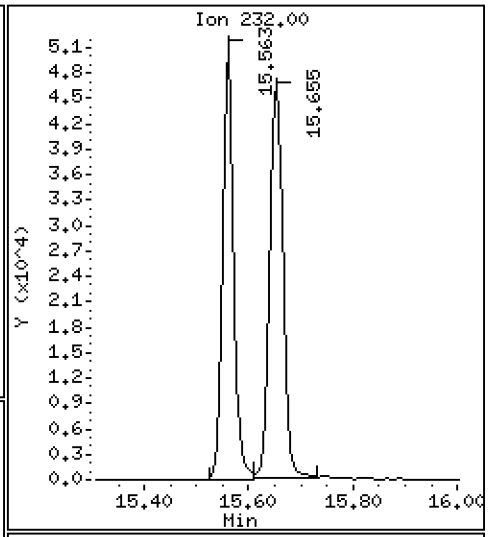
Concentration: 2.701 ug/mL

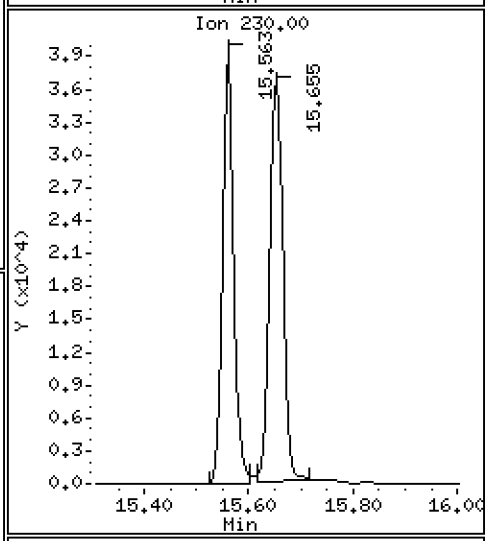


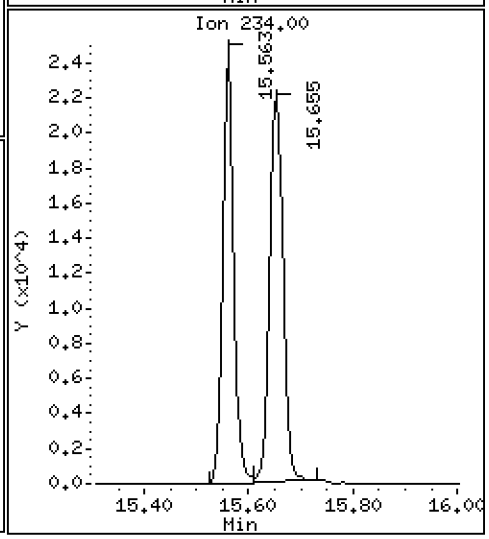












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230419B.b\NT1004192338.D
Lab Smp Id: BLD0008-BS1
Inj Date : 20-APR-2023 10:51
Operator : VTS Inst ID: nt10.i
Smp Info : BLD0008-BS1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Meth Date : 21-Apr-2023 11:46 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.620	6.612	(0.750)	176030	4.56228	4.562
$	2 Phenol-d5	99	8.219	8.219	(0.931)	236878	4.67988	4.680
	3 Phenol	94	8.243	8.235	(0.933)	144835	2.75361	2.754
$	5 2-Chlorophenol-d4	132	8.474	8.474	(0.960)	213063	4.92943	4.929
	4 Bis(2-Chloroethyl)ether	93	8.389	8.389	(0.950)	125516	3.21746	3.217
	6 2-Chlorophenol	128	8.497	8.497	(0.962)	142546	3.16651	3.167
	7 1,3-Dichlorobenzene	146	8.768	8.761	(0.993)	144259	3.03116	3.031
*	8 1,4-Dichlorobenzene-d4	152	8.830	8.830	(1.000)	127587	4.00000	
	9 1,4-Dichlorobenzene	146	8.861	8.861	(1.004)	145174	3.15769	3.158
$	10 1,2-Dichlorobenzene-d4	152	9.187	9.187	(1.040)	97552	3.14273	3.143
	12 1,2-Dichlorobenzene	146	9.218	9.211	(1.044)	141071	3.11787	3.118
	11 Benzyl alcohol	108	9.110	9.110	(1.032)	76222	3.08741	3.087
	14 2,2'-oxybis(1-Chloropropane)	121	9.413	9.413	(1.066)	46269	3.48216	3.482
	13 2-Methylphenol	108	9.350	9.343	(1.059)	100080	2.61016	2.610
	17 Hexachloroethane	117	9.801	9.801	(1.110)	55346	2.93413	2.934
	16 N-Nitroso-di-n-propylamine	70	9.669	9.669	(1.095)	84177	2.78036	2.780
	15 4-Methylphenol	108	9.630	9.622	(1.091)	115782	2.86591	2.866
$	18 Nitrobenzene-d5	82	9.925	9.925	(0.877)	147611	3.04880	3.049
	19 Nitrobenzene	77	9.964	9.964	(0.881)	140332	2.95349	2.953
	20 Isophorone	82	10.414	10.414	(0.920)	245063	4.03177	4.032
	21 2-Nitrophenol	139	10.592	10.592	(0.936)	72135	3.11212	3.112
	22 2,4-Dimethylphenol	107	10.660	10.660	(0.942)	137055	3.14045	3.140
	23 Bis(2-Chloroethoxy)methane	93	10.846	10.846	(0.959)	138476	3.41059	3.411
	24 Benzoic acid	105	10.897	10.897	(0.963)	494054	19.4684	19.47
	25 2,4-Dichlorophenol	162	11.050	11.050	(0.977)	367319	10.5177	10.52
	26 1,2,4-Trichlorobenzene	180	11.230	11.230	(0.992)	127300	3.10524	3.105
*	27 Naphthalene-d8	136	11.315	11.307	(1.000)	479670	4.00000	
	28 Naphthalene	128	11.353	11.353	(1.003)	383024	3.01424	3.014
	29 4-Chloroaniline	127	11.492	11.492	(1.016)	172242	3.47452	3.475
	30 Hexachlorobutadiene	225	11.716	11.716	(1.036)	84635	3.52340	3.523
	31 4-Chloro-3-methylphenol	107	12.467	12.467	(1.102)	358208	9.47467	9.475
	32 2-Methylnaphthalene	142	12.746	12.746	(1.126)	279286	3.04557	3.046
	33 Hexachlorocyclopentadiene	237	13.210	13.210	(0.886)	91214	3.45119	3.451

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.373	13.373	(0.897)	266917	9.45664	9.457
	35	2,4,5-Trichlorophenol	196	13.450	13.450	(0.902)	282104	8.99502	8.995
$	36	2-Fluorobiphenyl	172	13.535	13.527	(0.908)	351134	3.10832	3.108
	37	2-Chloronaphthalene	162	13.736	13.736	(0.921)	263307	2.87863	2.879
	38	2-Nitroaniline	65	14.007	14.007	(0.939)	200557	7.80563	7.806
	39	Dimethylphthalate	163	14.441	14.441	(0.968)	313069	3.37462	3.375
	40	Acenaphthylene	152	14.603	14.603	(0.979)	397229	2.78696	2.787
	41	2,6-Dinitrotoluene	165	14.580	14.580	(0.978)	190970	9.52904	9.529
*	42	Acenaphthene-d10	164	14.913	14.913	(1.000)	285576	4.00000	
	43	3-Nitroaniline	138	14.859	14.859	(0.996)	142781	6.31213	6.312
	44	Acenaphthene	153	14.982	14.982	(1.005)	257464	2.92395	2.924
	45	2,4-Dinitrophenol	184	15.067	15.067	(1.010)	174191	14.0055	14.01
	46	Dibenzofuran	168	15.307	15.307	(1.026)	377099	2.90415	2.904
	47	4-Nitrophenol	109	15.199	15.206	(1.019)	101834	7.18968	7.190
	48	2,4-Dinitrotoluene	165	15.384	15.384	(1.032)	256191	8.56948	8.569
	50	Diethylphthalate	149	15.902	15.902	(1.066)	362187	3.97907	3.979
	49	Fluorene	166	16.018	16.018	(1.074)	309255	3.02730	3.027
	51	4-Chlorophenyl-phenylether	204	16.018	16.018	(1.074)	160026	3.29421	3.294
	52	4-Nitroaniline	138	16.126	16.126	(1.081)	149826	7.34981	7.350
	53	4,6-Dinitro-2-methylphenol	198	16.219	16.219	(0.904)	286565	18.7060	18.71
	54	N-Nitrosodiphenylamine	169	16.273	16.273	(0.907)	180829	2.72264	2.723
$	55	2,4,6-Tribromophenol	330	16.558	16.558	(1.110)	77866	5.83960	5.840
	56	4-Bromophenyl-phenylether	248	17.021	17.021	(0.948)	102204	3.67839	3.678
	57	Hexachlorobenzene	284	17.330	17.330	(0.966)	106258	3.64759	3.648
	58	Pentachlorophenol	266	17.694	17.694	(0.986)	168748	9.61272	9.613
*	59	Phenanthrene-d10	188	17.949	17.949	(1.000)	496773	4.00000	
	60	Phenanthrene	178	17.996	17.996	(1.003)	419260	3.09510	3.095
	61	Anthracene	178	18.089	18.089	(1.008)	341361	2.62706	2.627
	62	Carbazole	167	18.429	18.429	(1.027)	369355	3.17210	3.172
	63	Di-n-butylphthalate	149	19.257	19.265	(1.073)	566684	3.63349	3.633
	64	Fluoranthene	202	20.402	20.402	(0.885)	509006	2.73263	2.733
	65	Pyrene	202	20.827	20.827	(0.904)	525890	2.75220	2.752
$	66	Terphenyl-d14	244	21.137	21.137	(0.917)	447526	3.11872	3.119
	67	Butylbenzylphthalate	149	22.089	22.089	(0.959)	220368	3.22086	3.221
	68	Benzo(a)anthracene	228	23.011	23.019	(0.999)	496500	3.03437	3.034
*	69	Chrysene-d12	240	23.042	23.042	(1.000)	463568	4.00000	
	70	3,3'-Dichlorobenzidine	252	22.988	22.988	(0.998)	244781	4.67038	4.670
	71	Chrysene	228	23.088	23.088	(1.002)	461529	2.88710	2.887
	72	bis(2-Ethylhexyl)phthalate	149	23.135	23.135	(0.959)	295163	3.09909	3.099
*	134	Di-n-octylphthalate-d4	153	24.126	24.126	(1.000)	649949	4.00000	
	73	Di-n-octylphthalate	149	24.133	24.133	(1.000)	548724	3.22613	3.226
	74	Benzo(b)fluoranthene	252	24.861	24.861	(0.972)	544307	3.21076	3.211
	75	Benzo(k)fluoranthene	252	24.900	24.908	(0.973)	606575	3.52373	3.524
	76	Benzo(a)pyrene	252	25.481	25.481	(0.996)	457843	3.02075	3.021
*	77	Perylene-d12	264	25.589	25.589	(1.000)	522985	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.092	28.092	(1.098)	488913	2.53549	2.535
	79	Dibenzo(a,h)anthracene	278	28.108	28.116	(1.098)	410397	2.56354	2.564
	80	Benzo(g,h,i)perylene	276	28.822	28.822	(1.126)	354218	2.12263	2.123
	90	N-Nitrosodimethylamine	74	4.434	4.411	(0.502)	143729	5.83893	5.839
	91	Aniline	93	8.297	8.289	(0.940)	121348	2.25157	2.252
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	4.465	4.426	(0.506)	26974	0.71351	0.7135
	105	1-methylnaphthalene	142	12.970	12.962	(1.146)	267655	3.18566	3.186
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.342	16.350	(1.096)	272968	2.68462	2.685

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	24.861	24.908	(0.972)	1090316	6.66121	6.661
120 2,3,4,6-Tetrachlorophenol	232	15.655	15.655	(1.050)	78950	2.70112	2.701

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192338.D
Lab Smp Id: BLD0008-BS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Misc Info:

Calibration Date: 20-APR-2023
Calibration Time: 07:41
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	129725	64863	259450	127587	-1.65
27 Naphthalene-d8	475671	237836	951342	479670	0.84
42 Acenaphthene-d10	277889	138945	555778	285576	2.77
59 Phenanthrene-d10	485346	242673	970692	496773	2.35
69 Chrysene-d12	453075	226538	906150	463568	2.32
134 Di-n-octylphthala	697265	348633	1394530	649949	-6.79
77 Perylene-d12	538138	269069	1076276	522985	-2.82

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.83	8.33	9.33	8.83	-0.00
27 Naphthalene-d8	11.31	10.81	11.81	11.32	0.07
42 Acenaphthene-d10	14.91	14.41	15.41	14.91	-0.00
59 Phenanthrene-d10	17.95	17.45	18.45	17.95	-0.00
69 Chrysene-d12	23.04	22.54	23.54	23.04	-0.00
134 Di-n-octylphthala	24.13	23.63	24.63	24.13	-0.00
77 Perylene-d12	25.59	25.09	26.09	25.59	-0.00

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

REVIEW SUMMARY FOR FILE - NT1004192338.D

Lab ID: BLD0008-BS1
nt10.i, 20230419B.b\ABN.m,   20-APR-2023 10:51

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1004192333.D

On Column LOD for nt10.i, 20230419B.b\ABN.m, ICAL.sub = 0.0000

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

Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192339.D

Date : 20-APR-2023 11:29

Client ID:

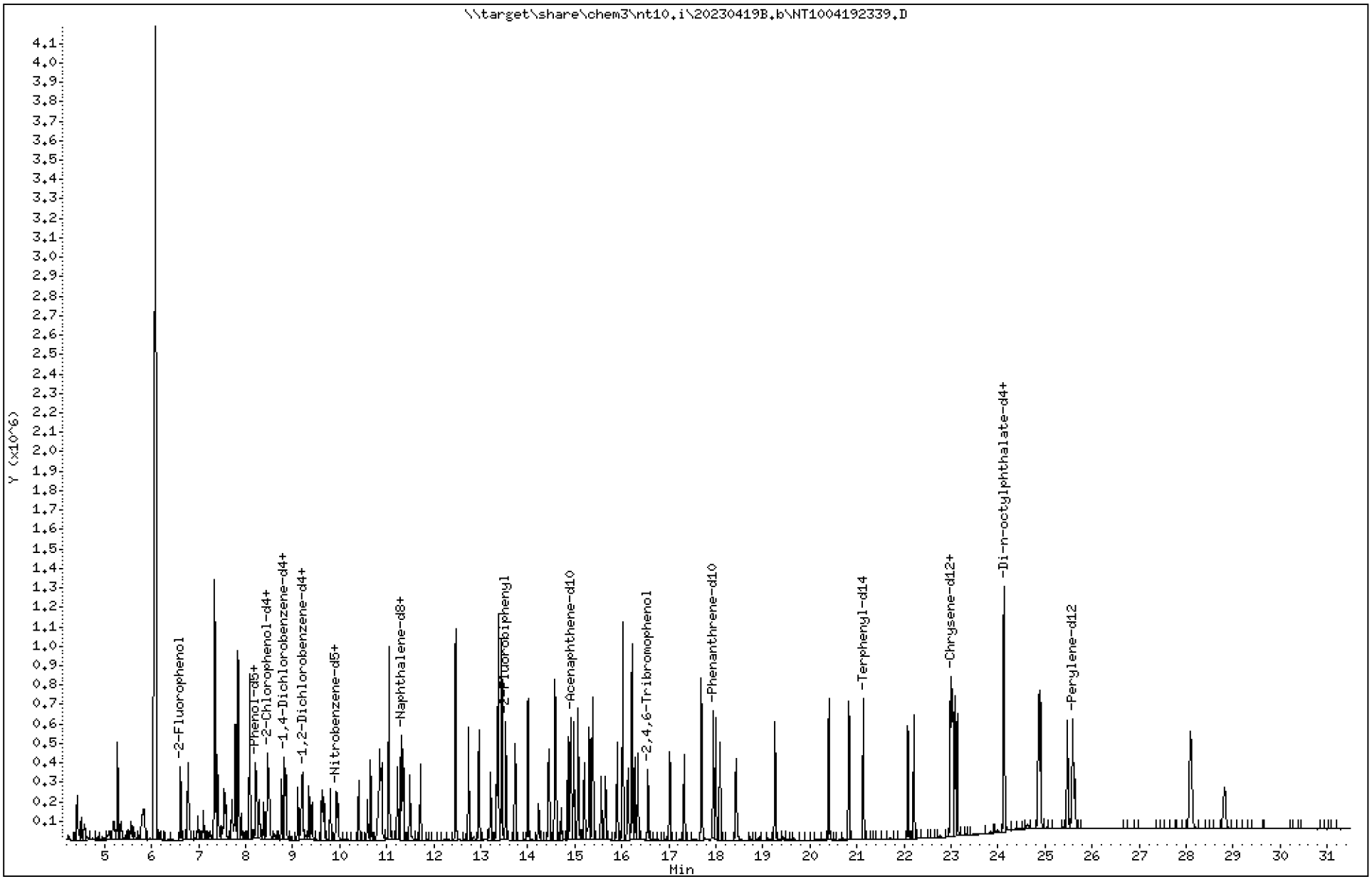
Instrument: nt10.i

Sample Info: BLD0008-BSD1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192339.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

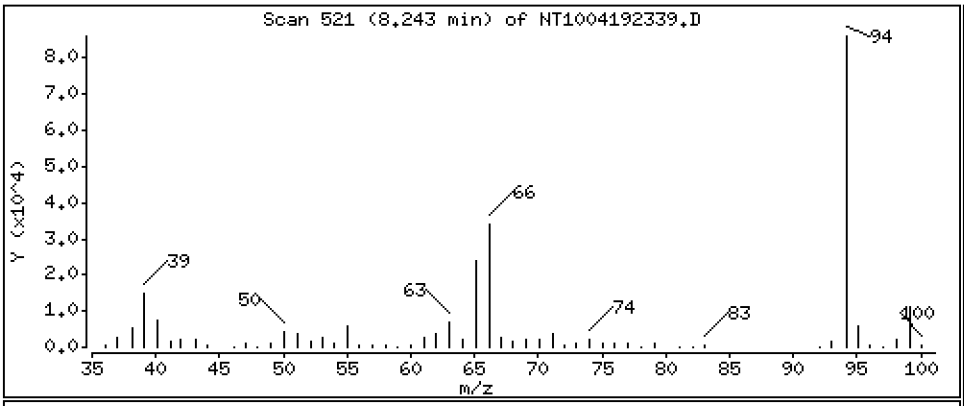
Operator: VTS

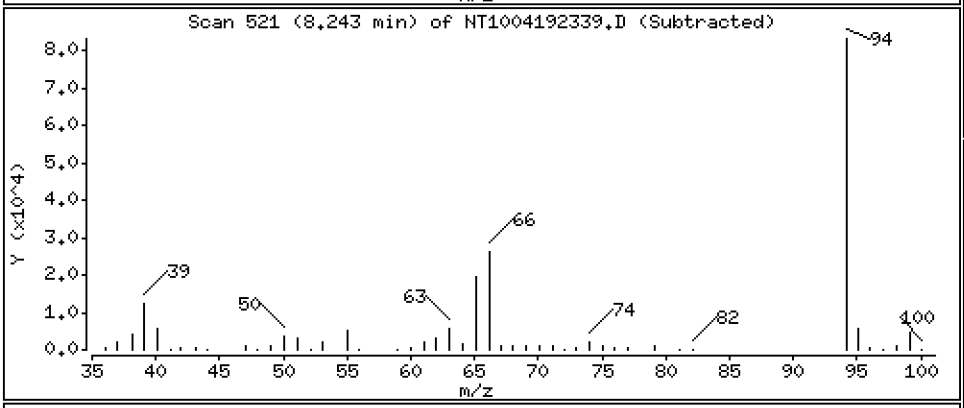
Column phase: ZB-5msi

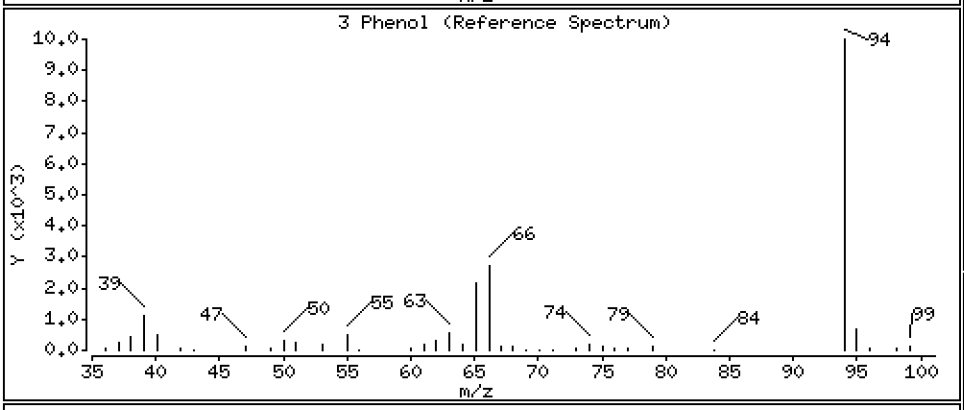
Column diameter: 0.25

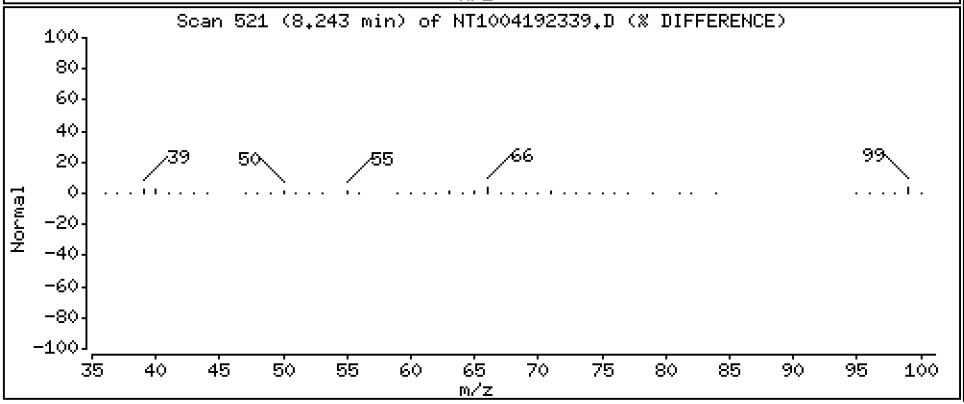
3 Phenol

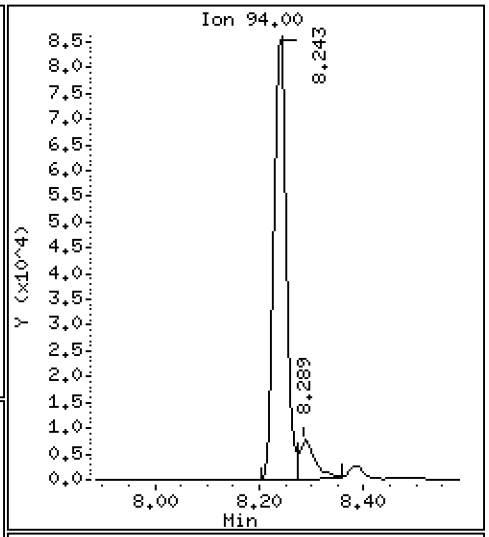
Concentration: 2.854 ug/mL

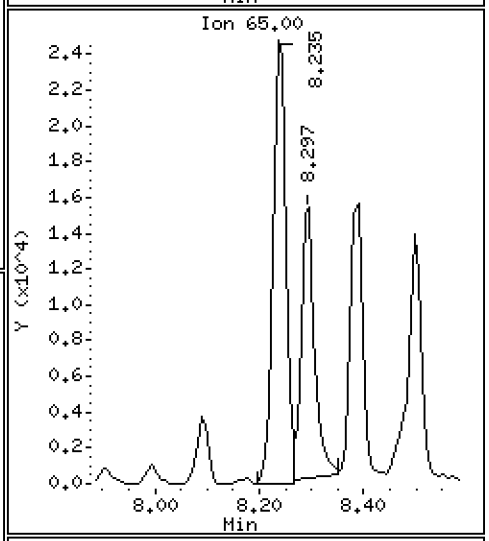


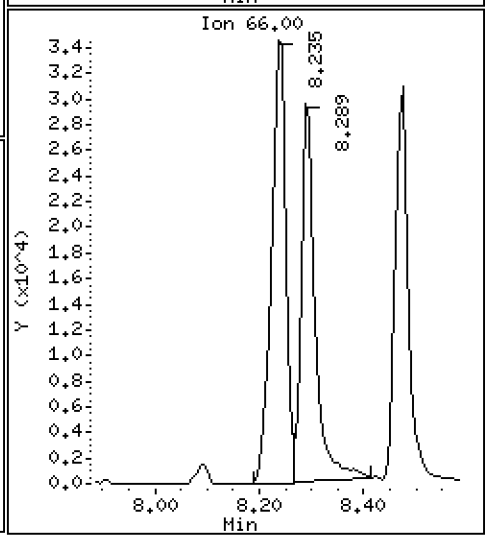












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

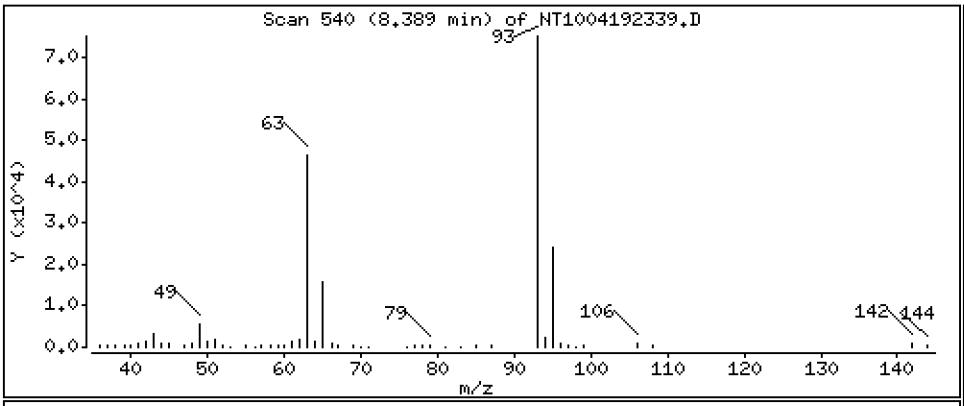
Operator: VTS

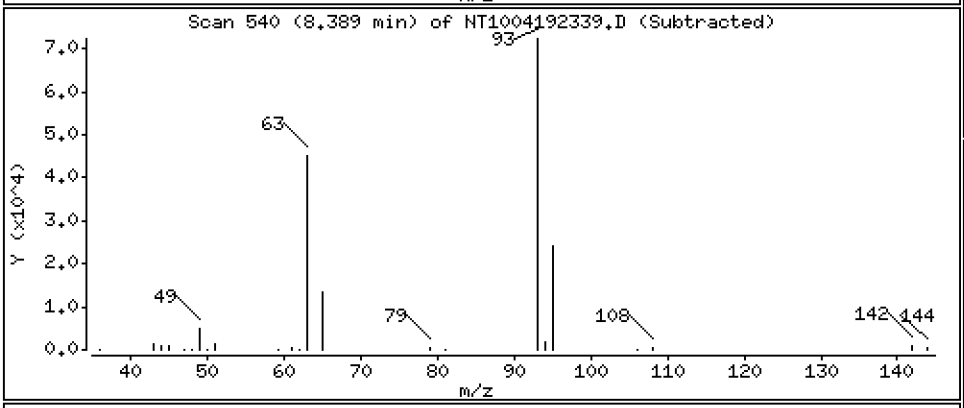
Column phase: ZB-5msi

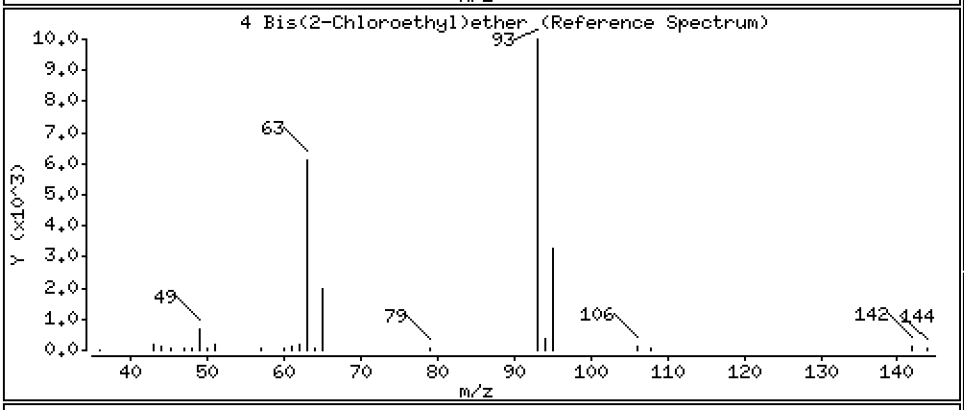
Column diameter: 0.25

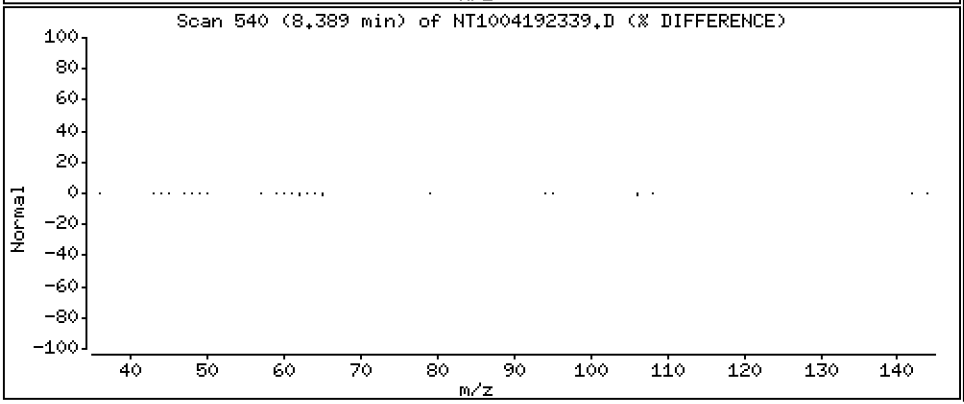
4 Bis(2-Chloroethyl)ether

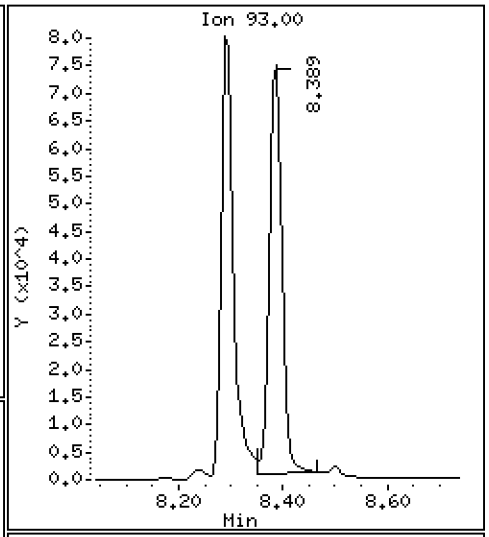
Concentration: 3.357 ug/mL

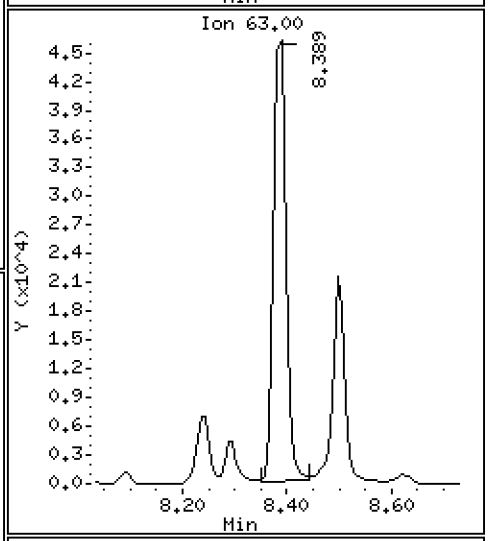


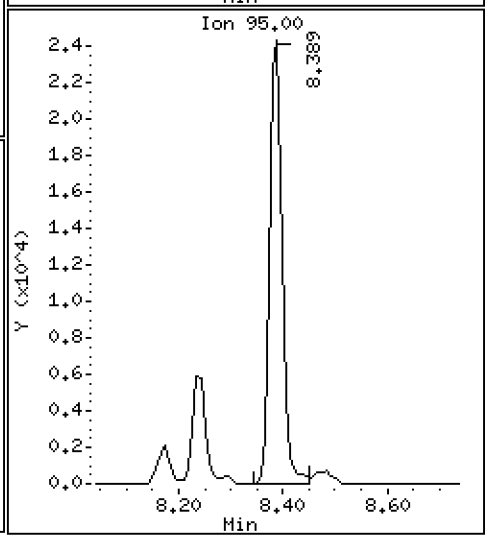












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

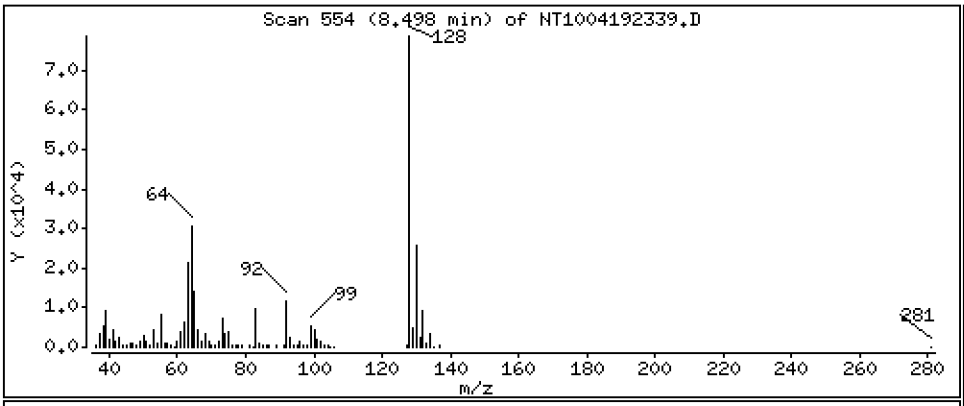
Operator: VTS

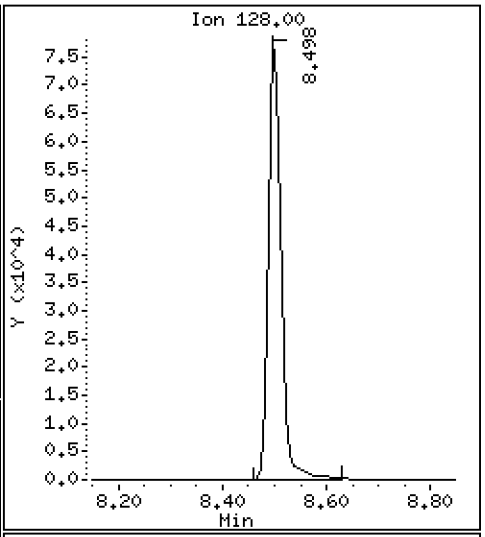
Column phase: ZB-5msi

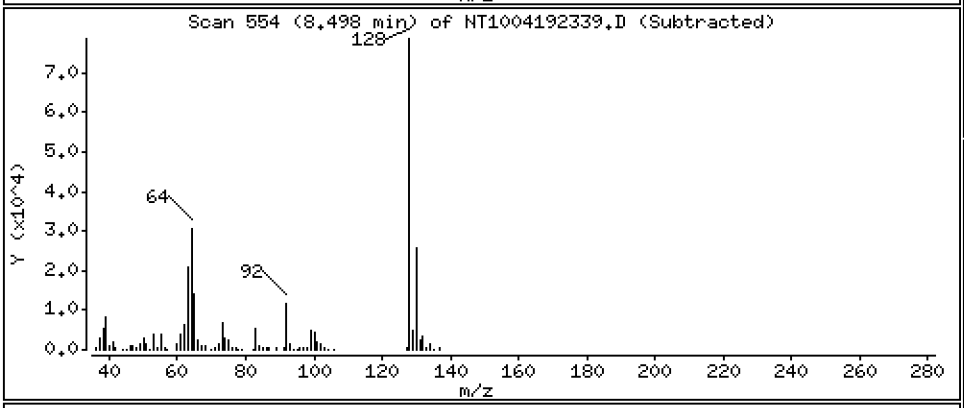
Column diameter: 0.25

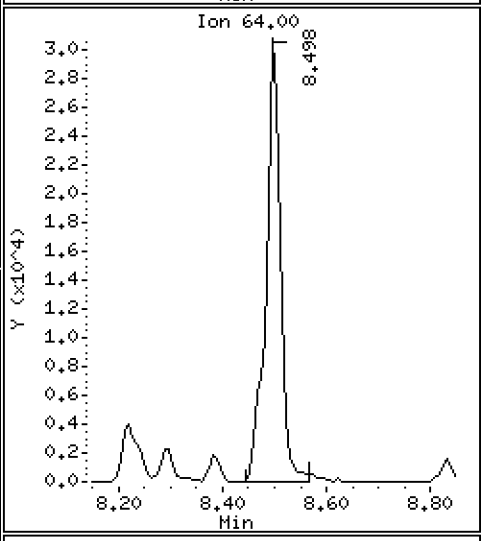
6 2-Chlorophenol

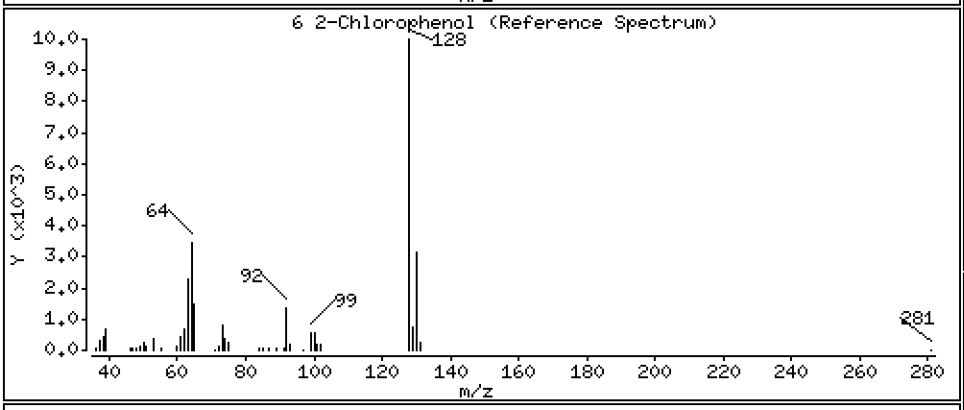
Concentration: 3.379 ug/mL

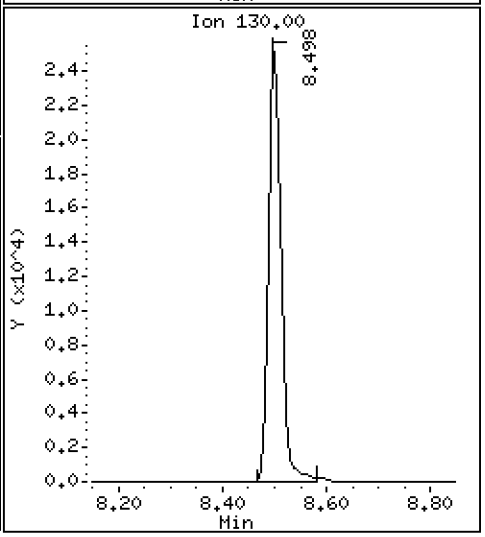


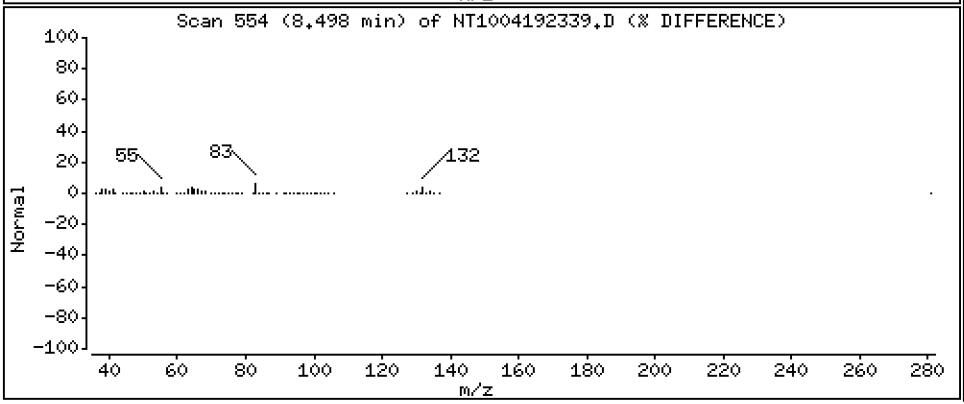












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

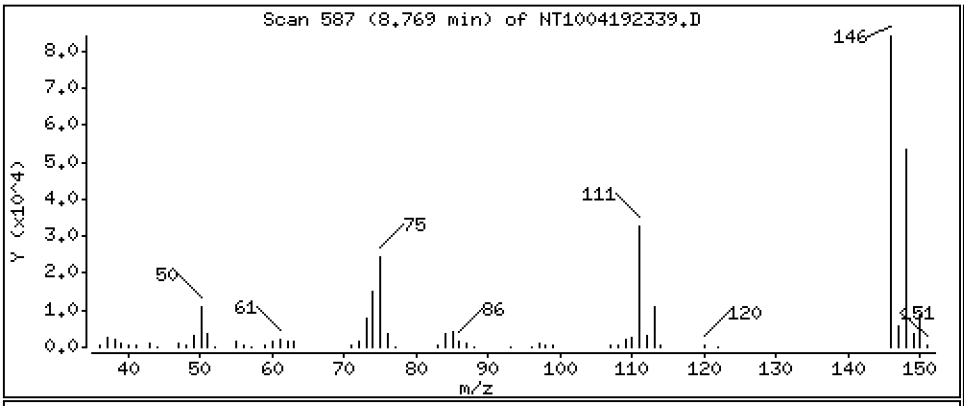
Operator: VTS

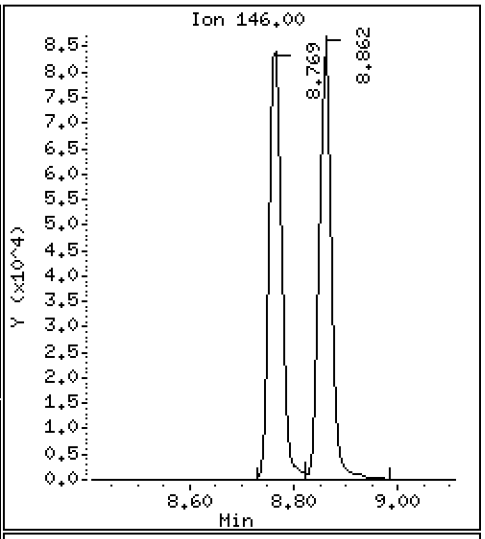
Column phase: ZB-5msi

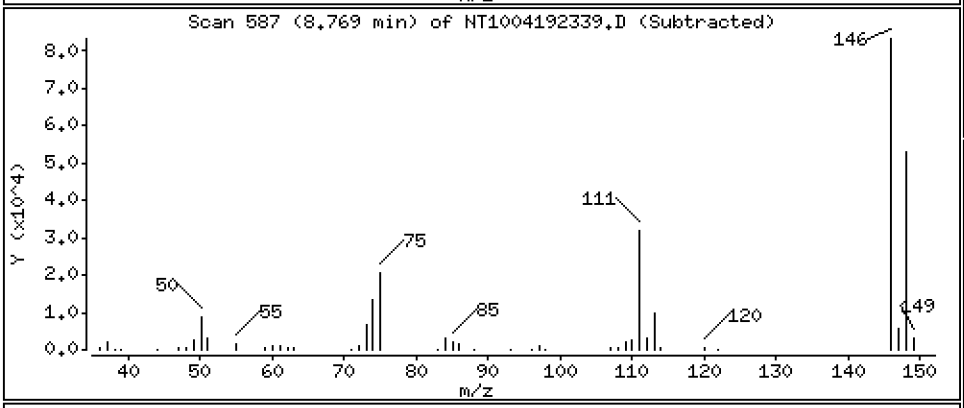
Column diameter: 0.25

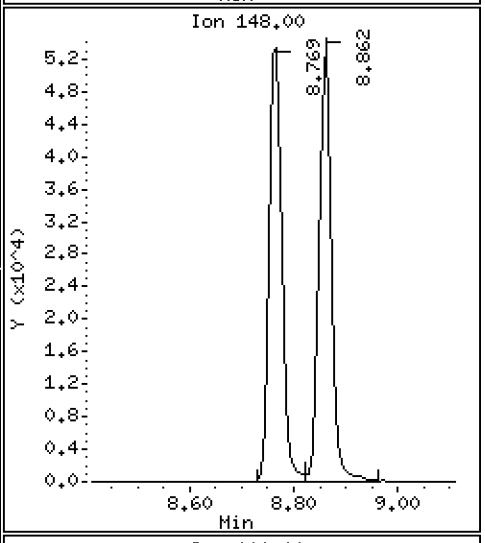
7 1,3-Dichlorobenzene

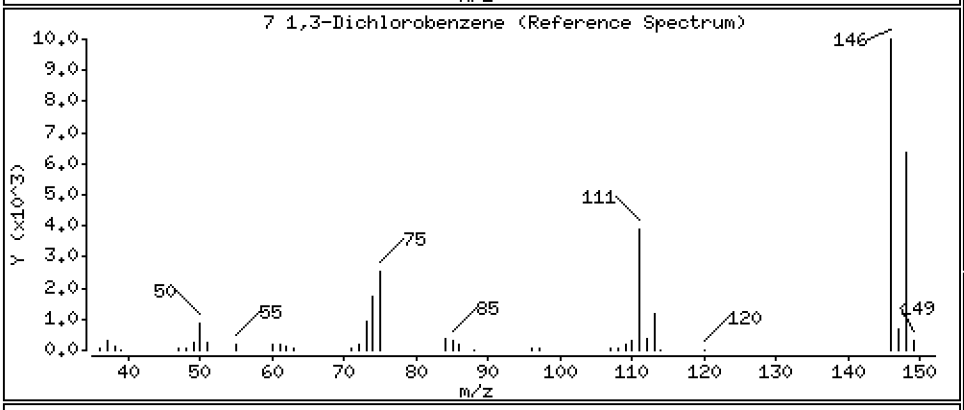
Concentration: 3.174 ug/mL

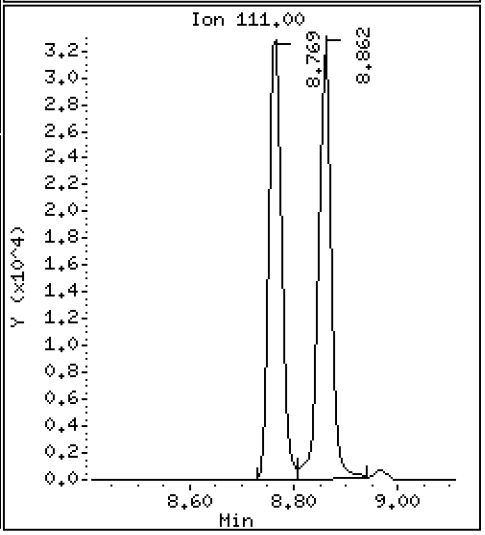


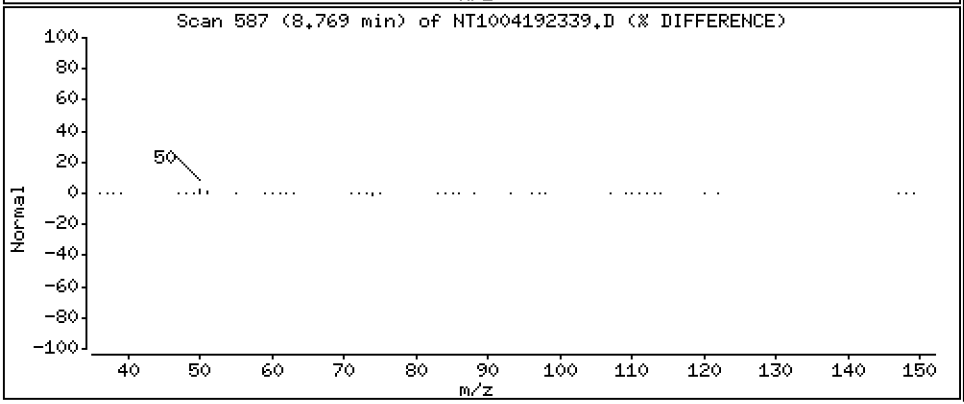












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

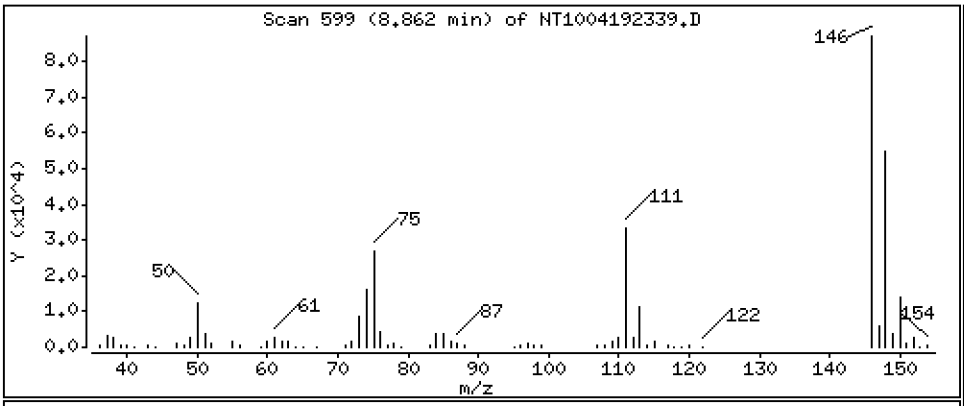
Operator: VTS

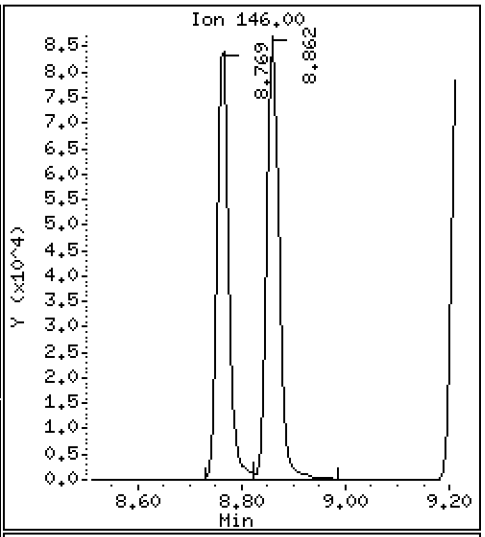
Column phase: ZB-5msi

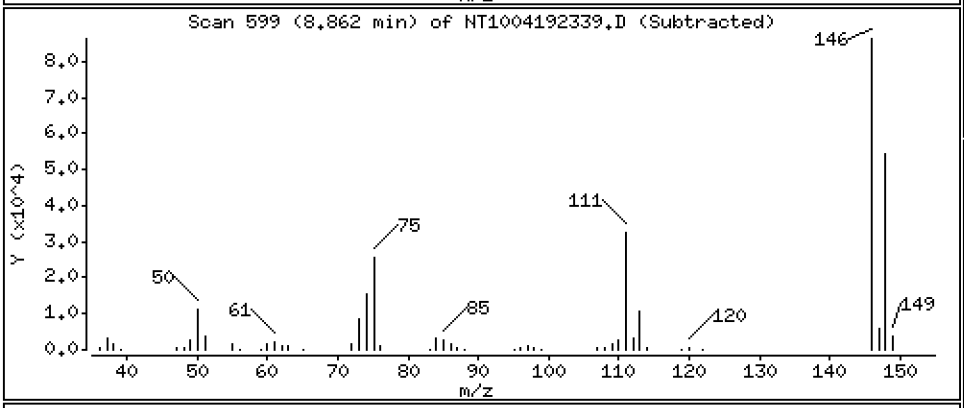
Column diameter: 0.25

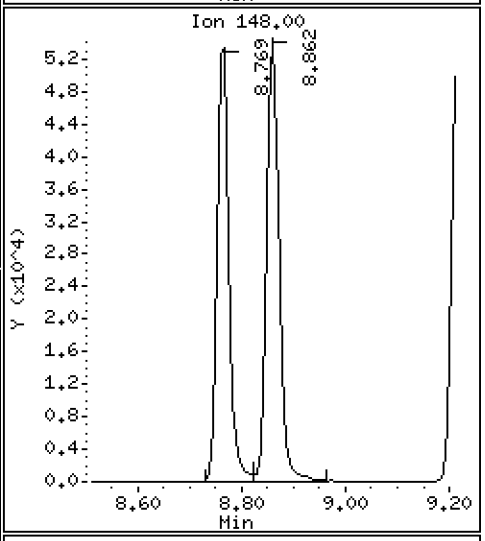
9 1,4-Dichlorobenzene

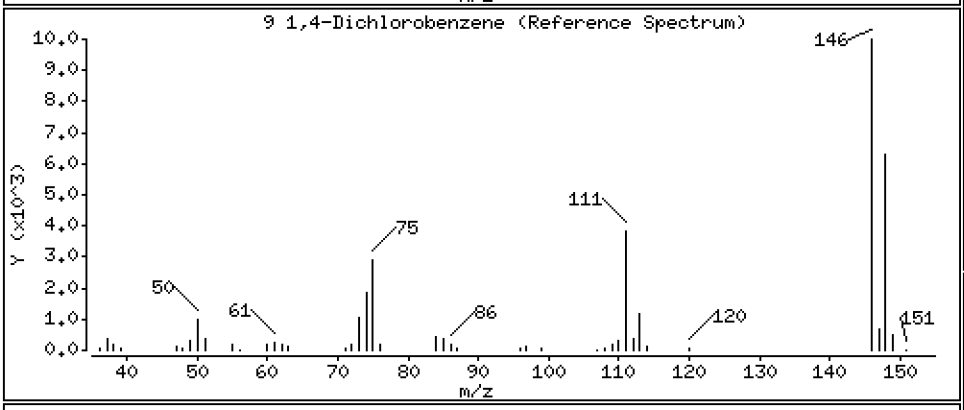
Concentration: 3.252 ug/mL

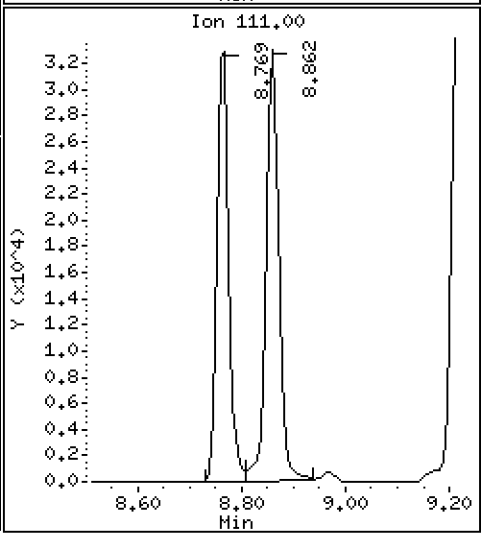


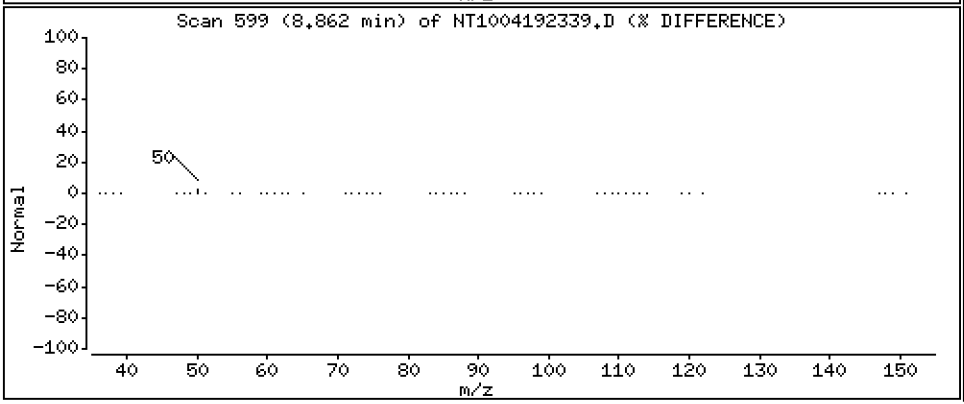












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

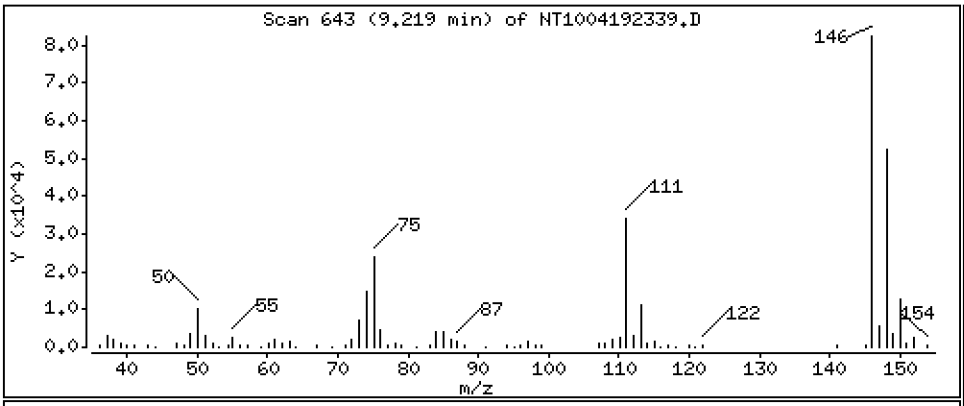
Operator: VTS

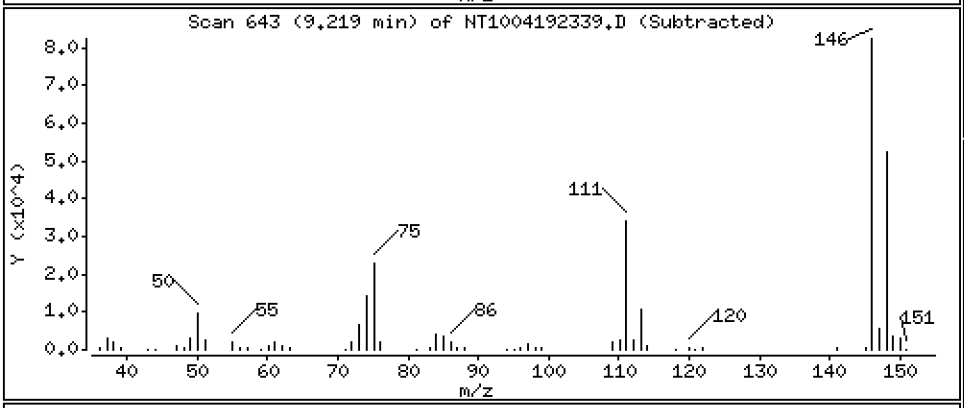
Column phase: ZB-5msi

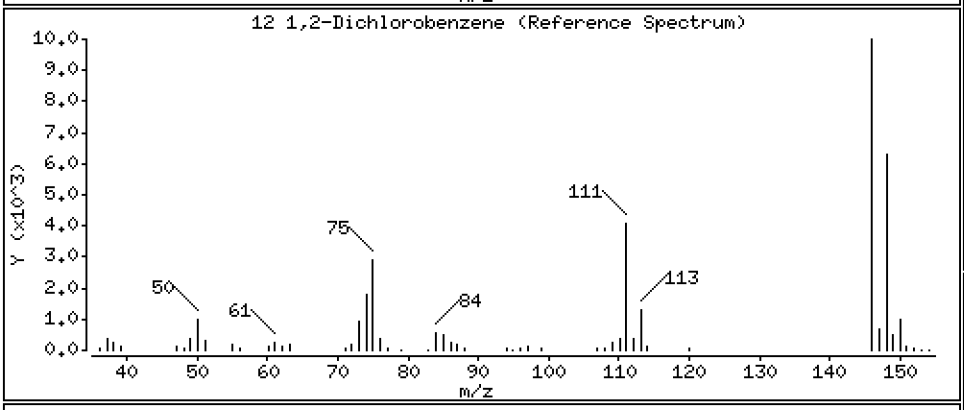
Column diameter: 0.25

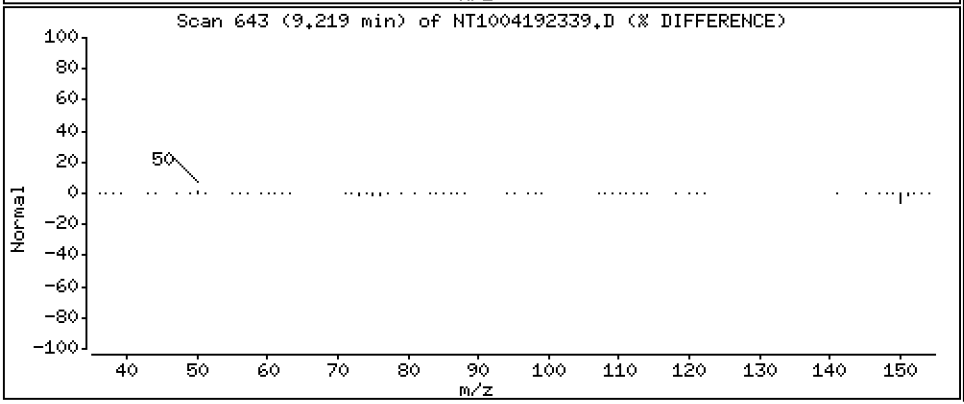
12 1,2-Dichlorobenzene

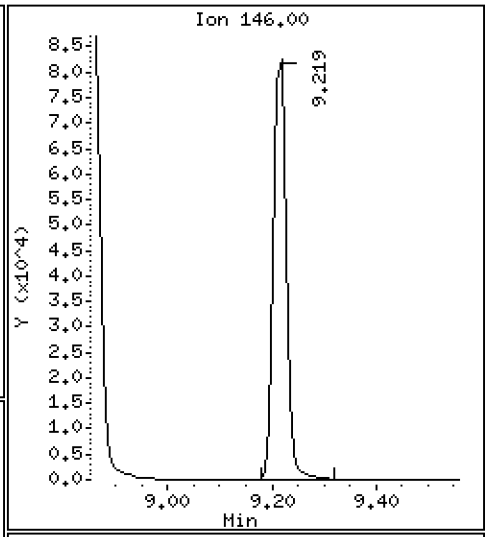
Concentration: 3.279 ug/mL

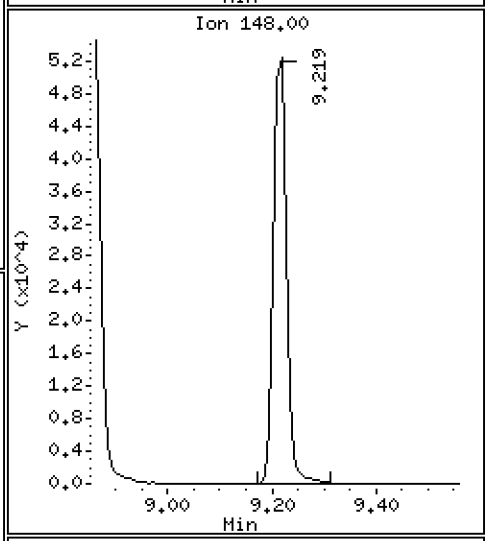


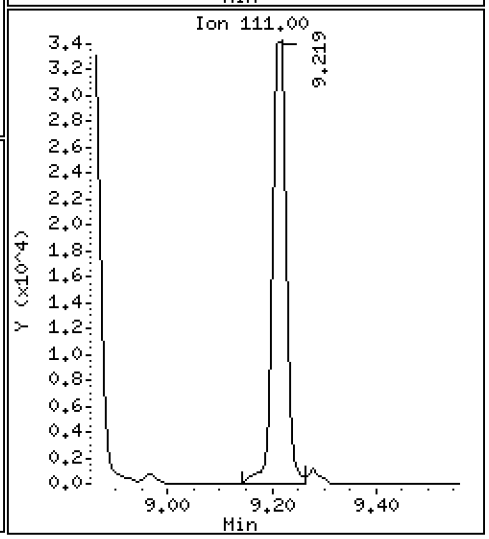












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

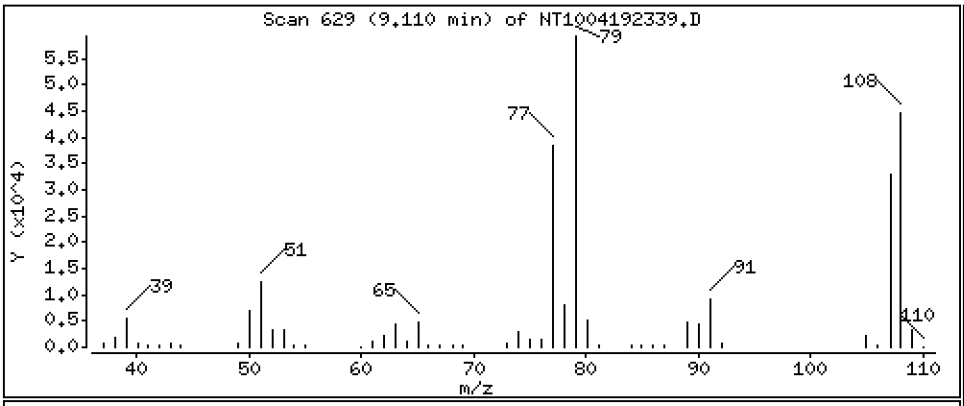
Operator: VTS

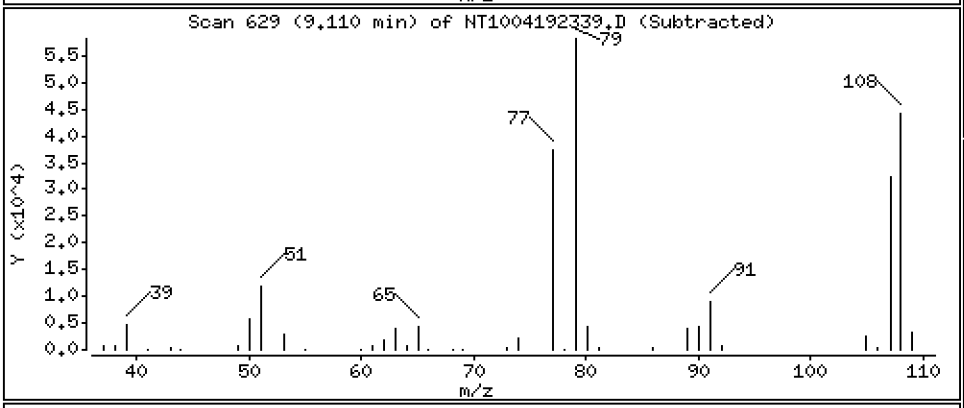
Column phase: ZB-5msi

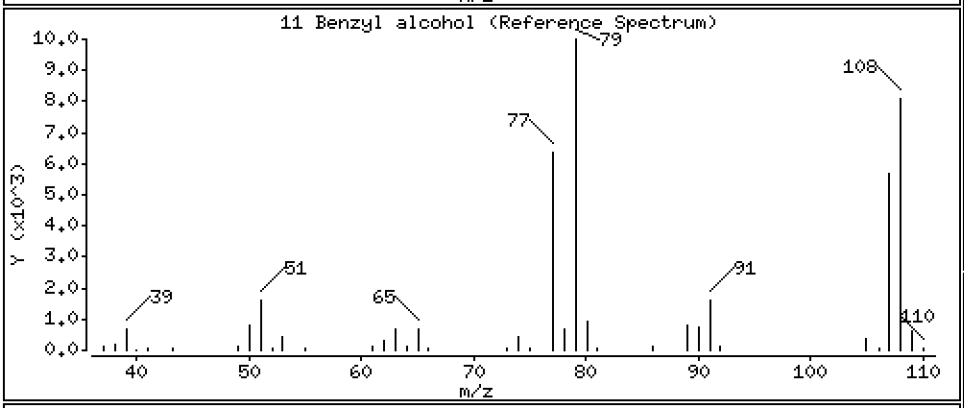
Column diameter: 0.25

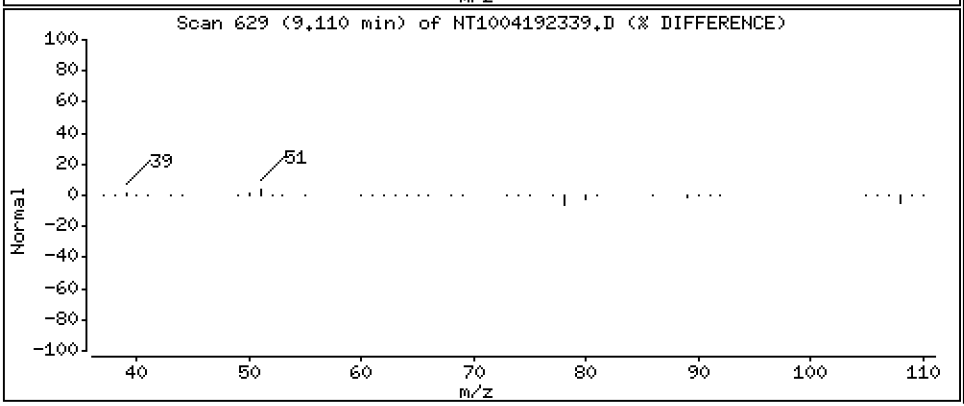
11 Benzyl alcohol

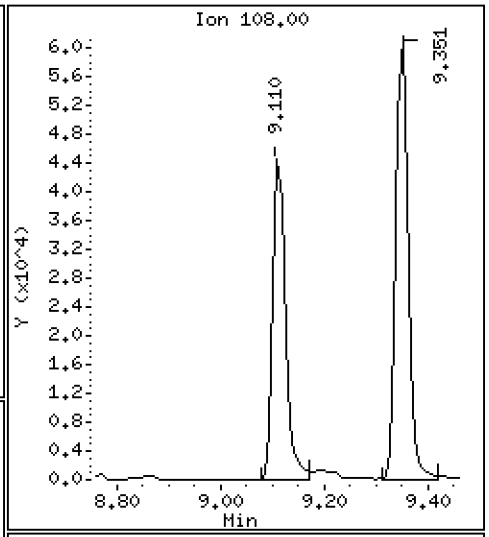
Concentration: 3.226 ug/mL

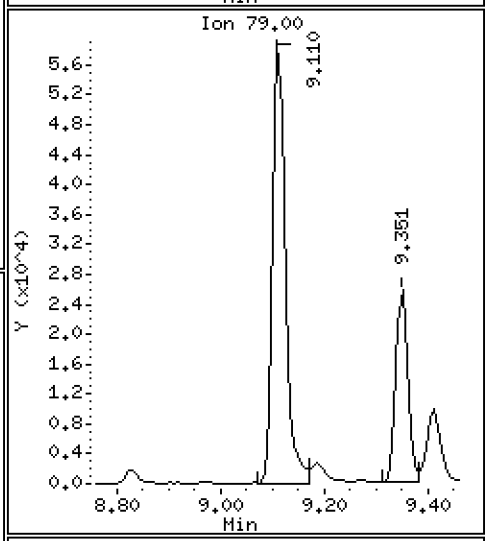


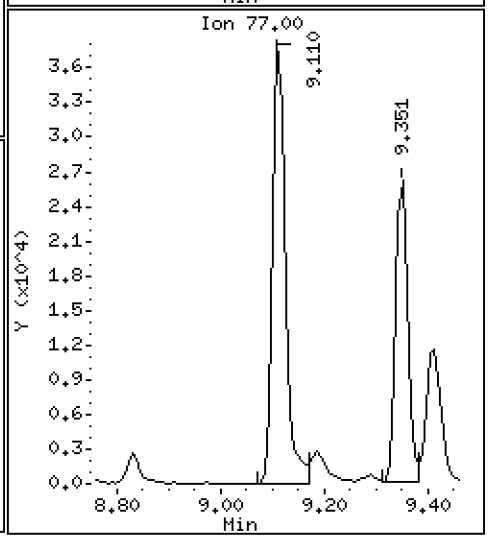












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

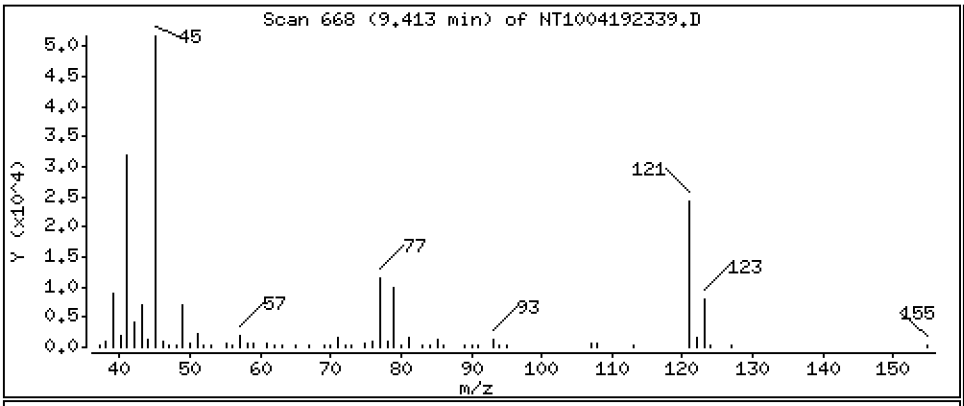
Operator: VTS

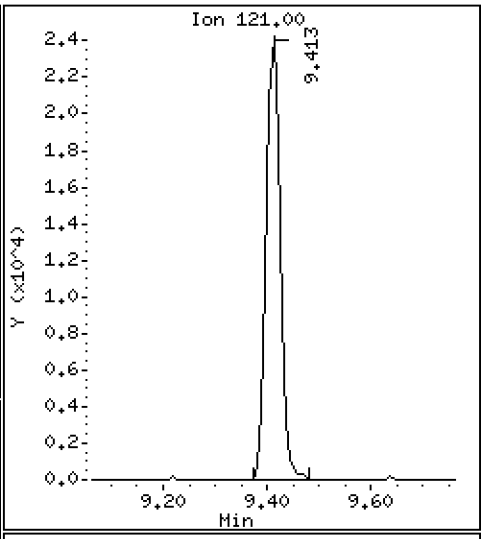
Column phase: ZB-5msi

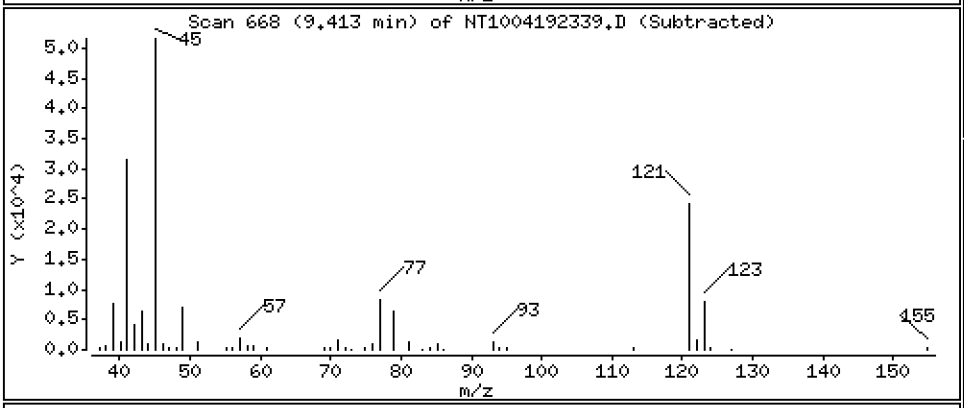
Column diameter: 0.25

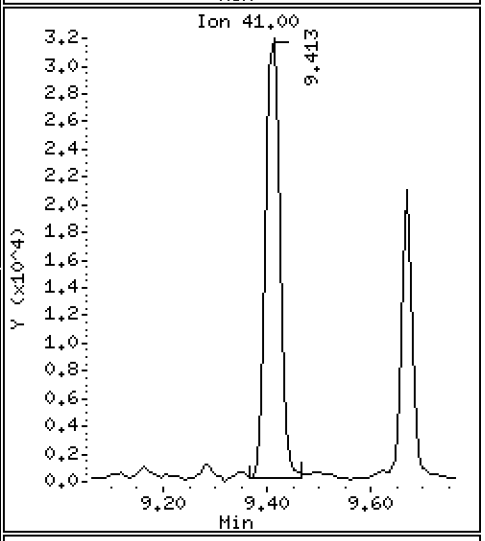
14 2,2'-oxybis(1-Chloropropane)

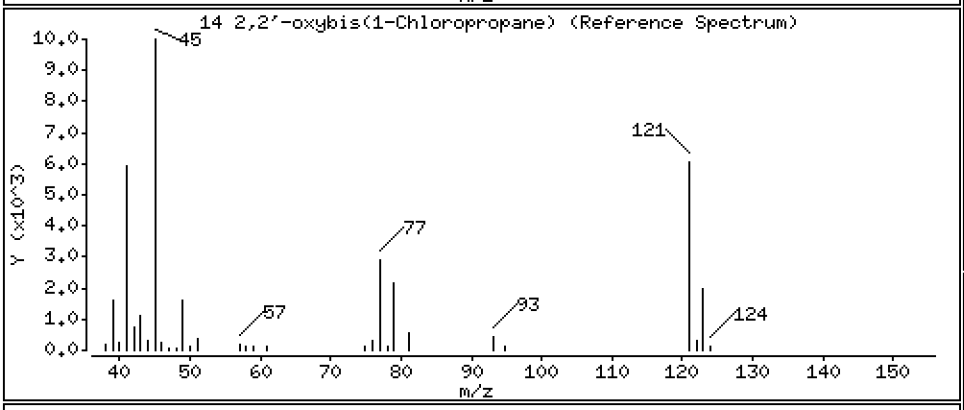
Concentration: 3.595 ug/mL

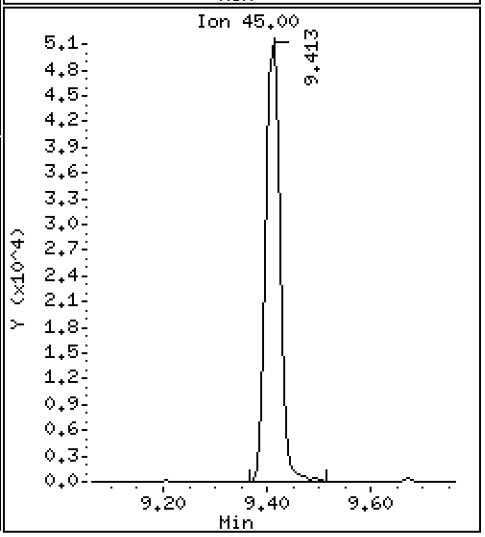


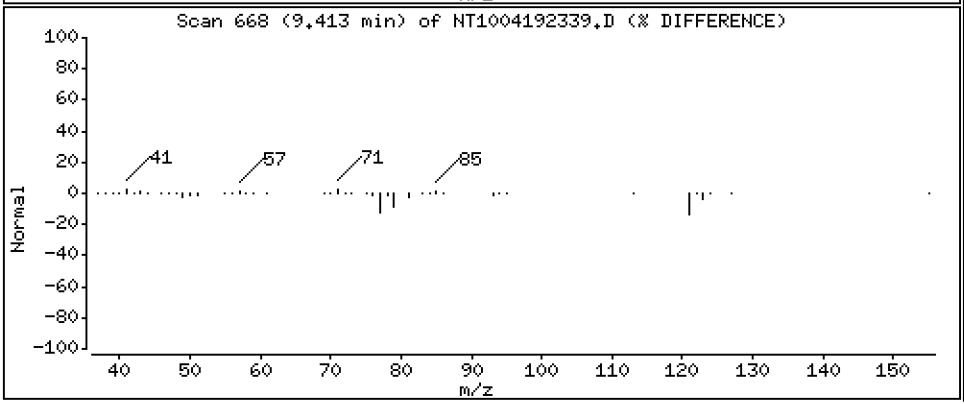












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

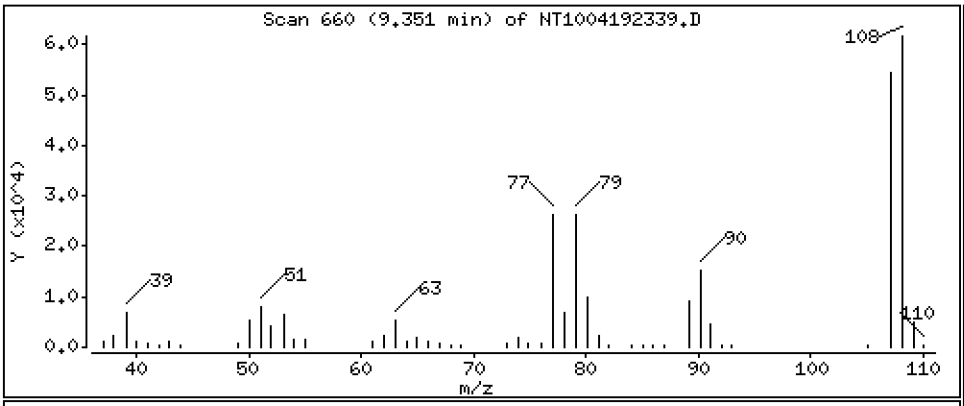
Operator: VTS

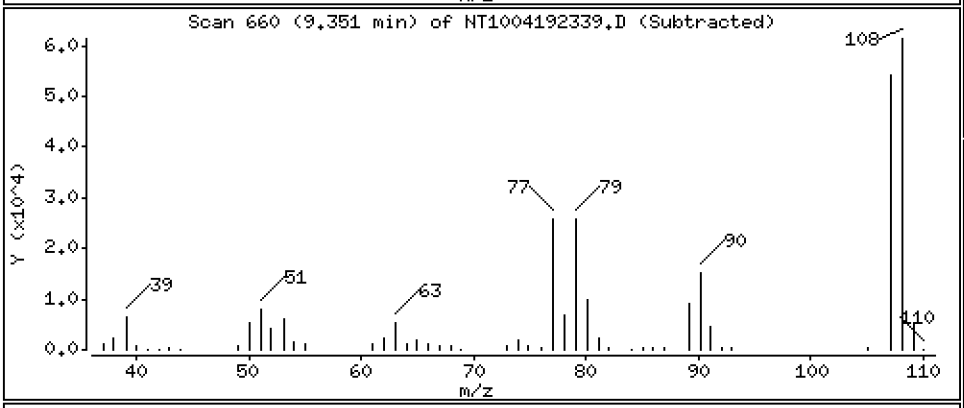
Column phase: ZB-5msi

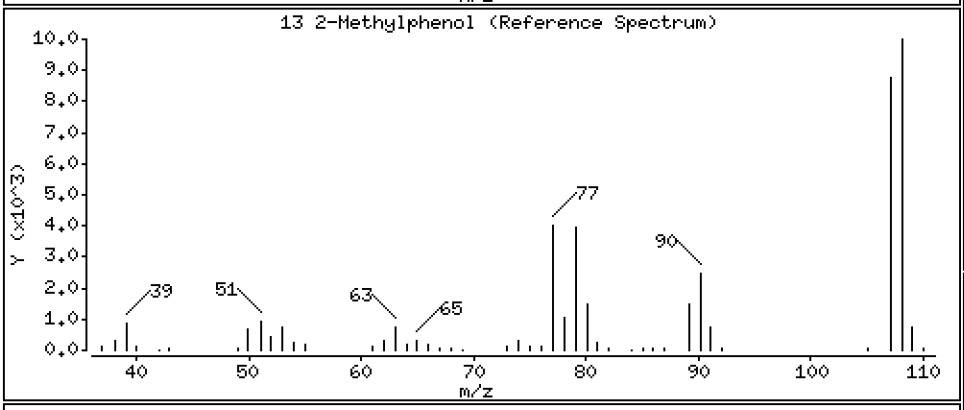
Column diameter: 0.25

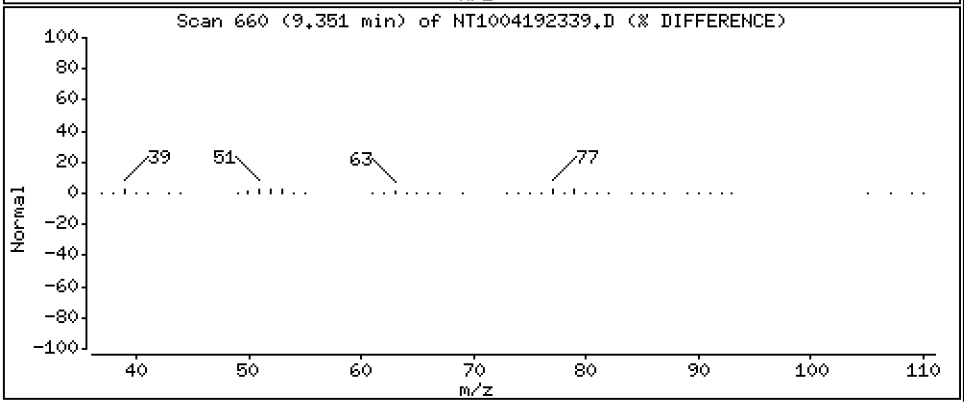
13 2-Methylphenol

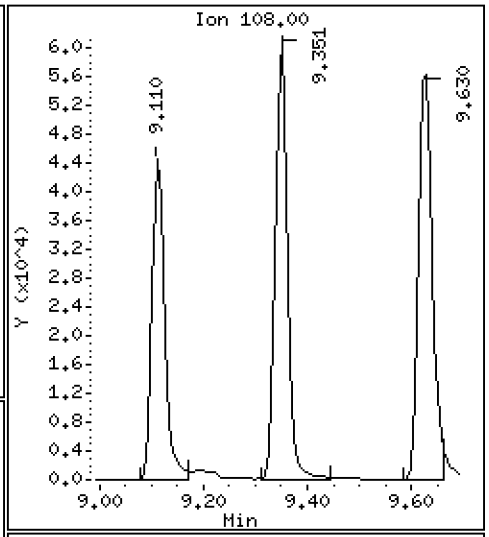
Concentration: 2.761 ug/mL

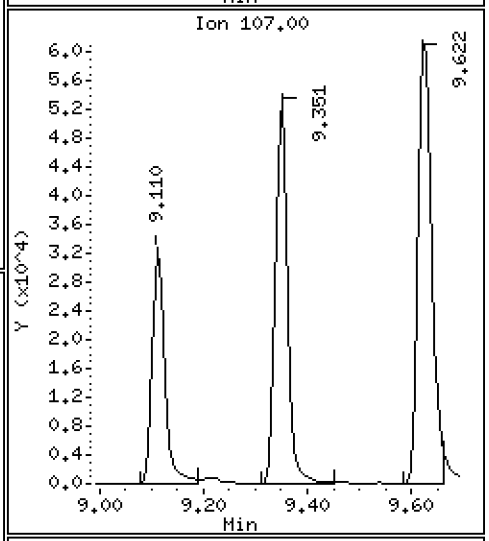


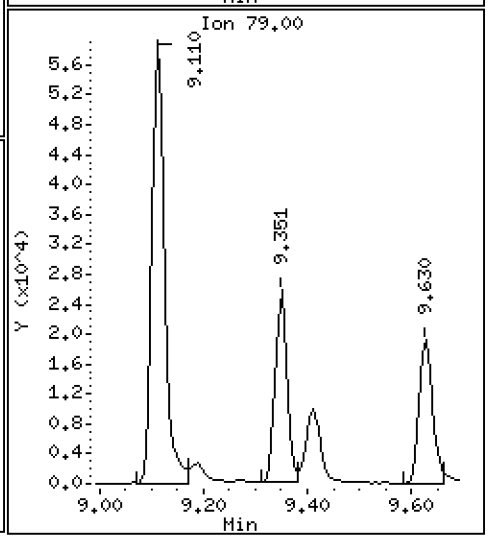












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

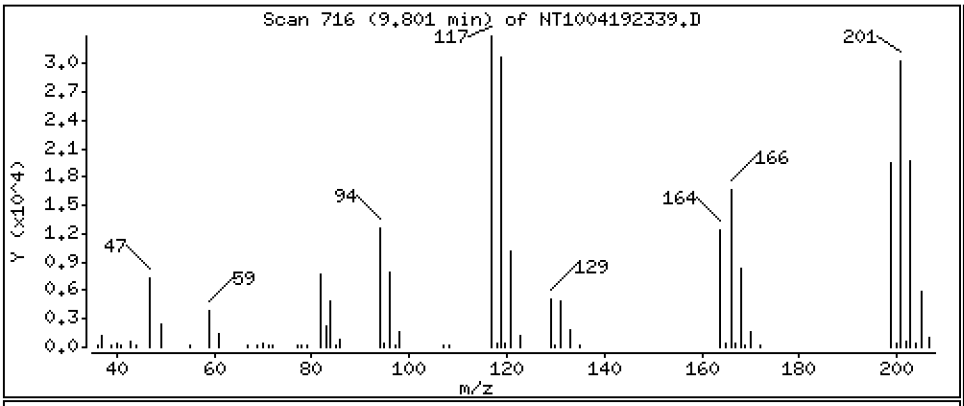
Operator: VTS

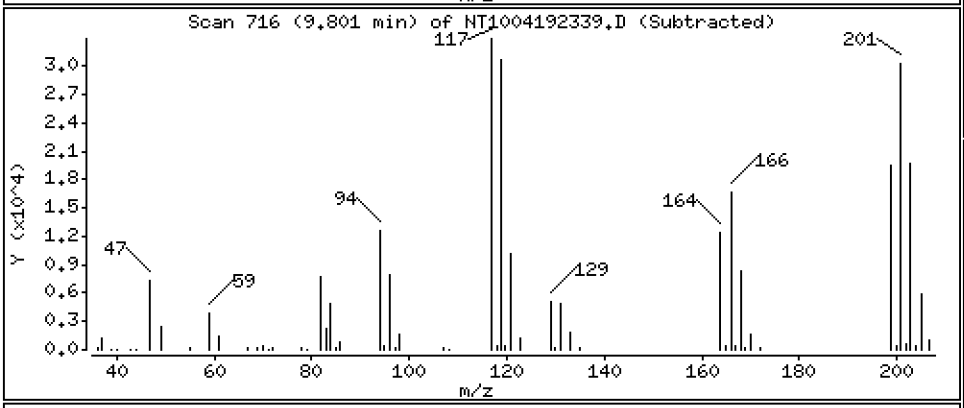
Column phase: ZB-5msi

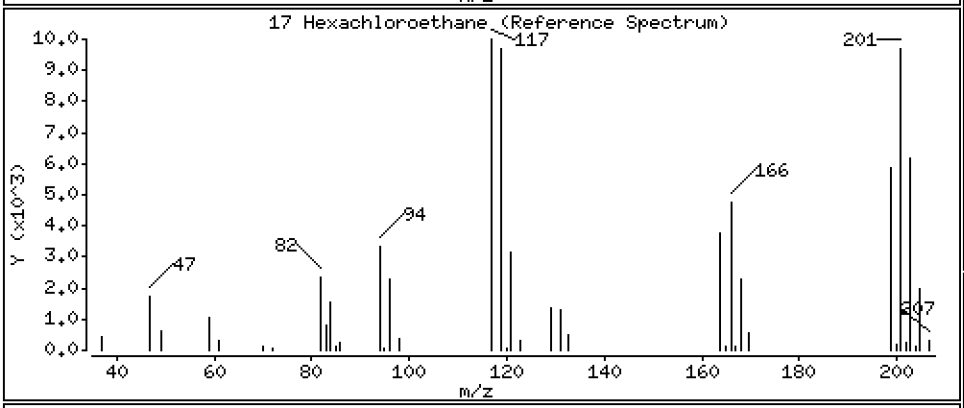
Column diameter: 0.25

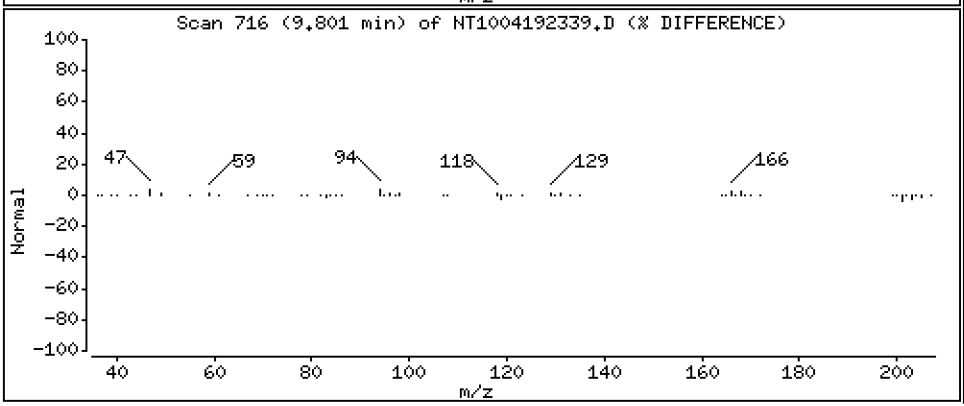
17 Hexachloroethane

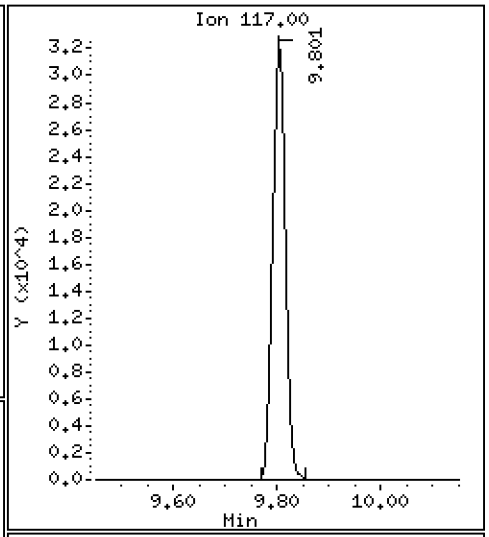
Concentration: 3.023 ug/mL

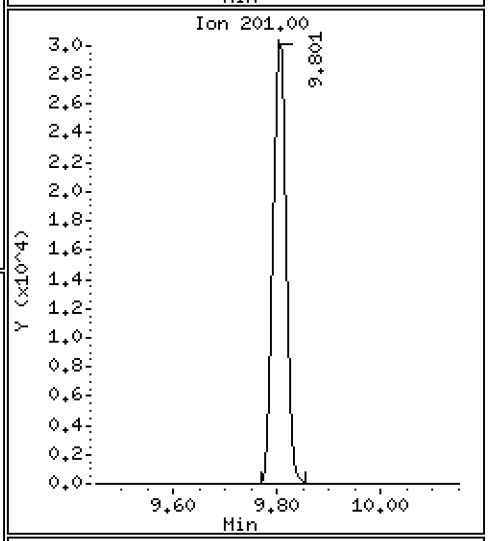


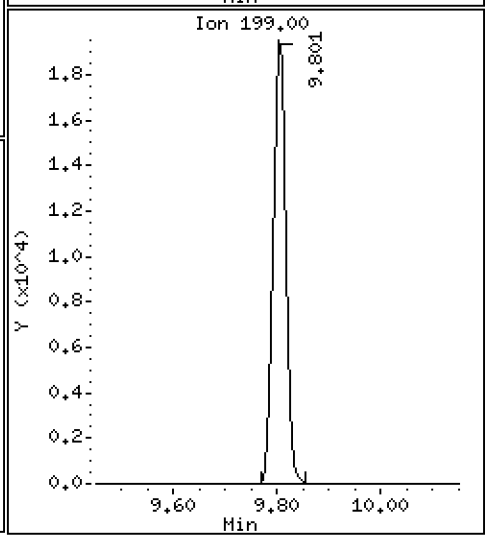












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

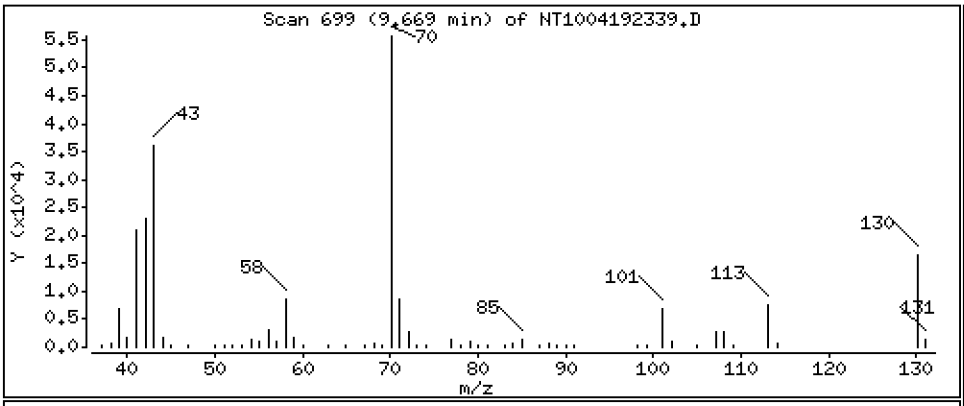
Operator: VTS

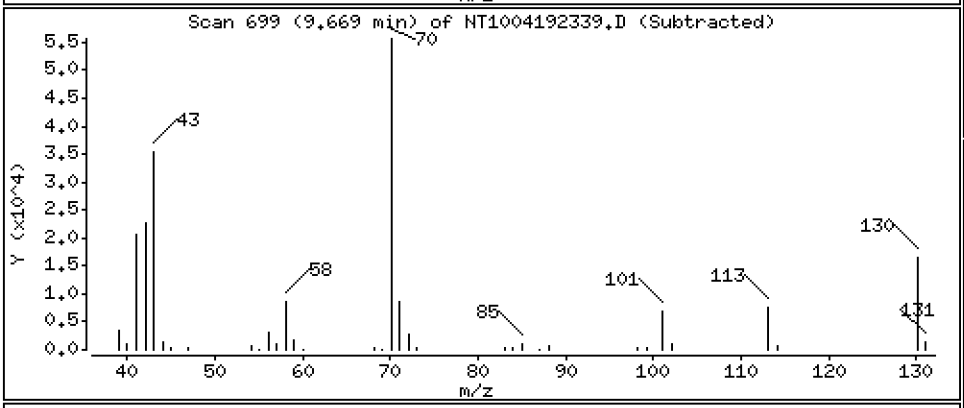
Column phase: ZB-5msi

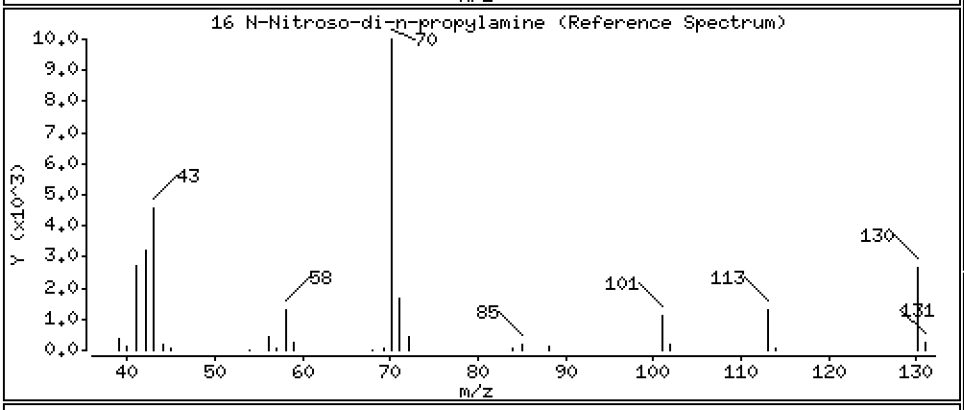
Column diameter: 0.25

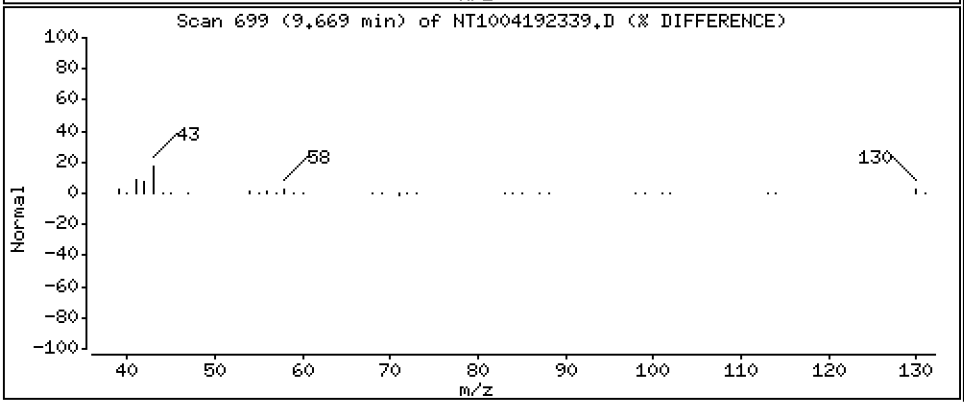
16 N-Nitroso-di-n-propylamine

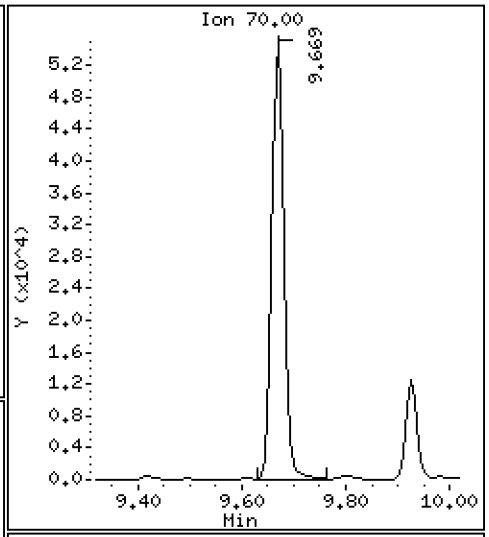
Concentration: 3.033 ug/mL

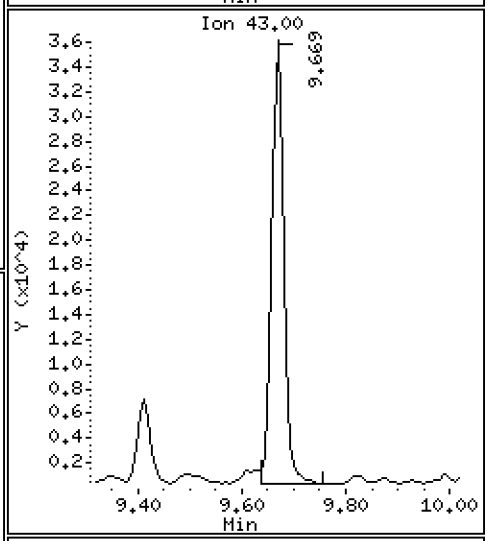


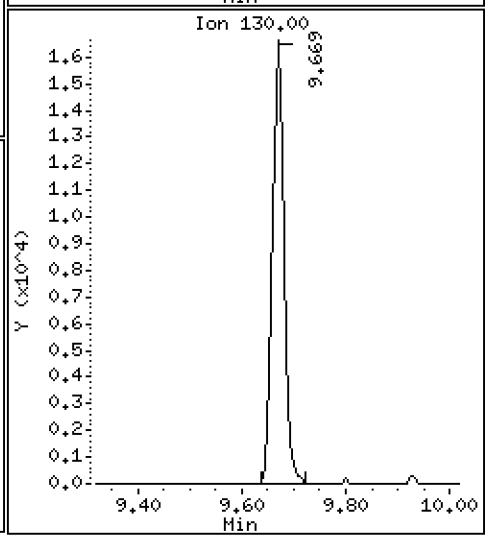












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

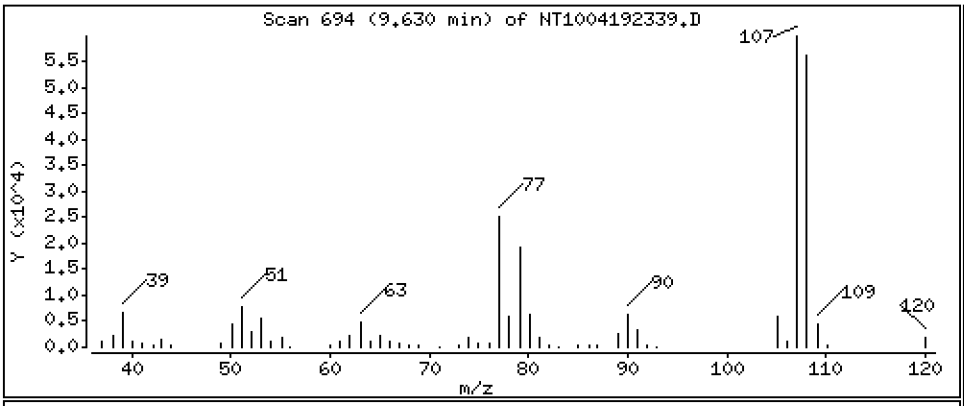
Operator: VTS

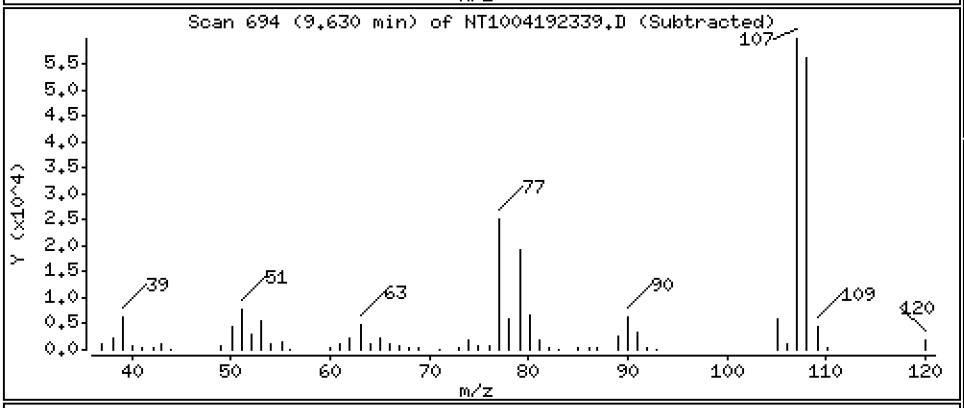
Column phase: ZB-5msi

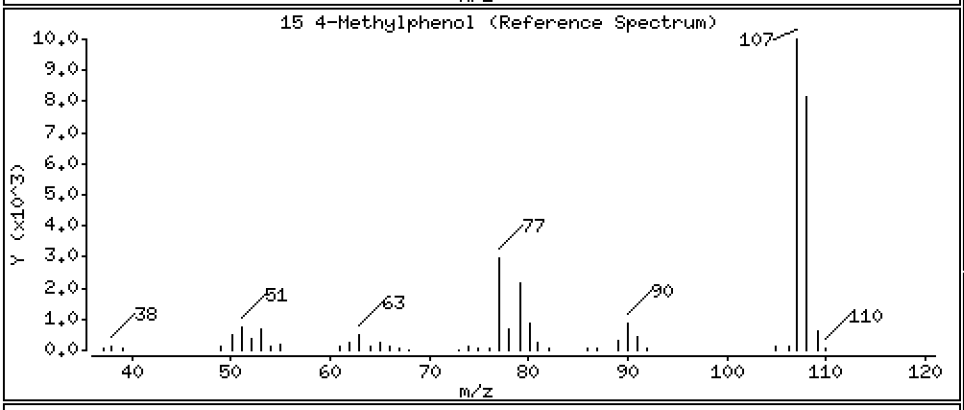
Column diameter: 0.25

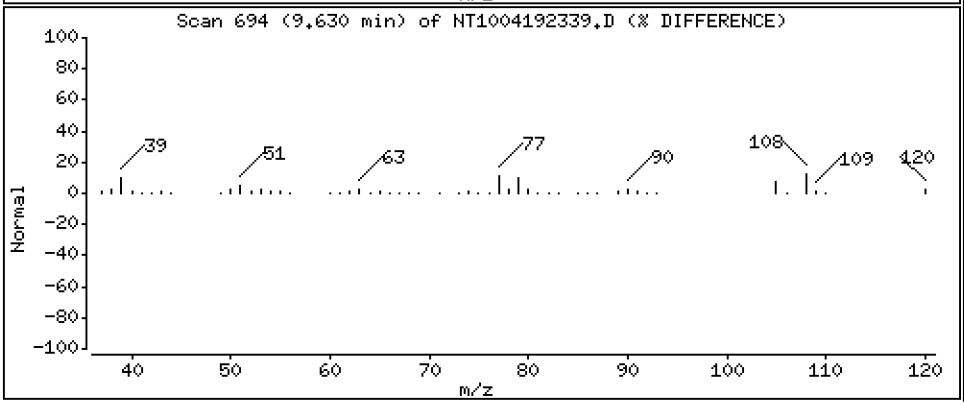
15 4-Methylphenol

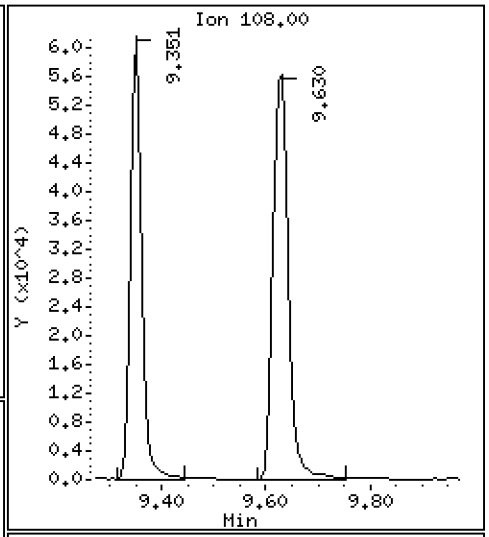
Concentration: 3.055 ug/mL

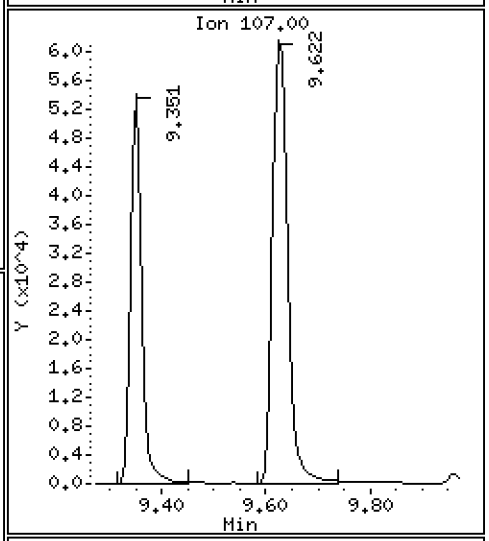


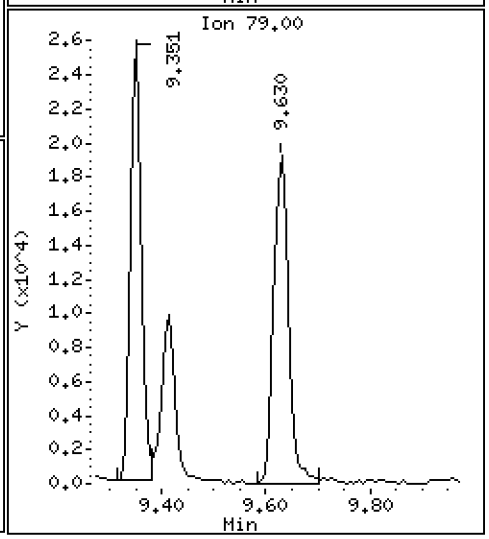












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

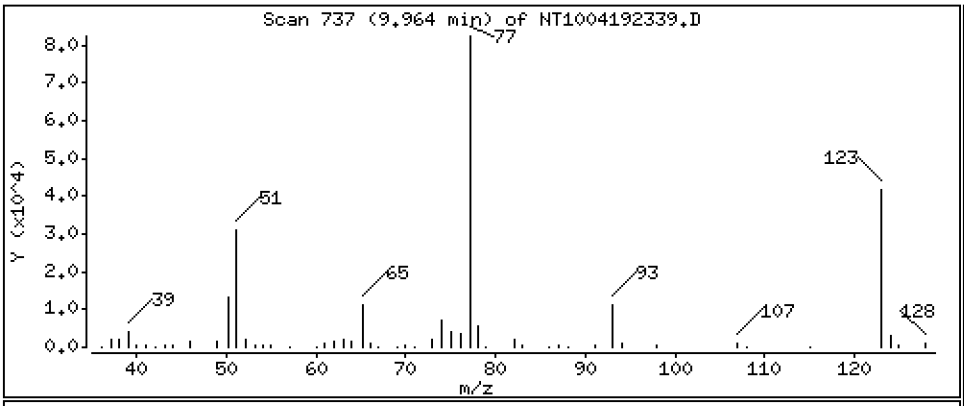
Operator: VTS

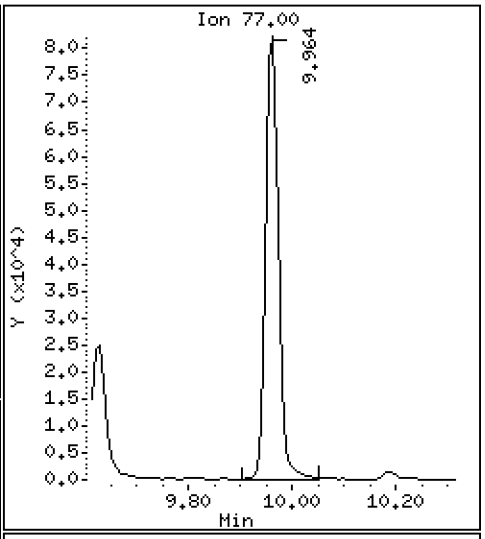
Column phase: ZB-5msi

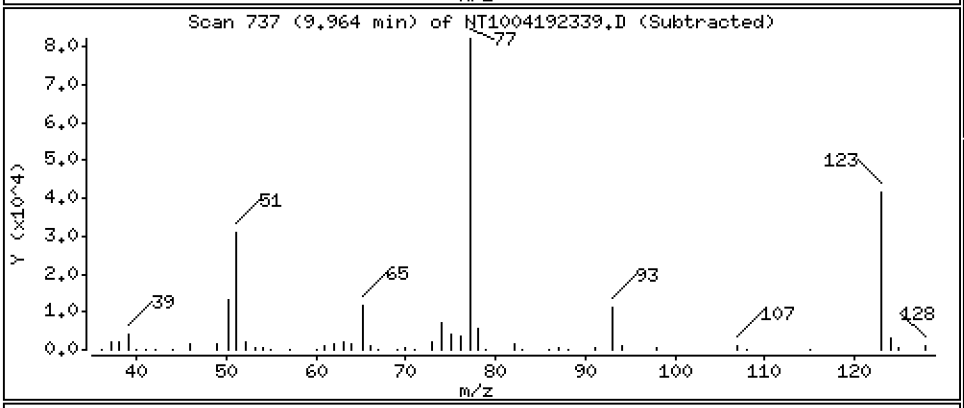
Column diameter: 0.25

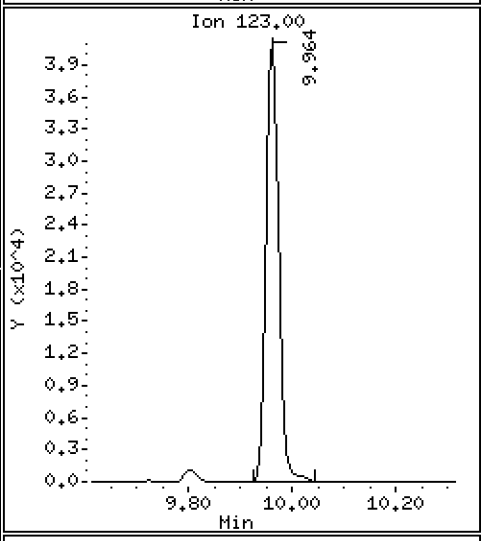
19 Nitrobenzene

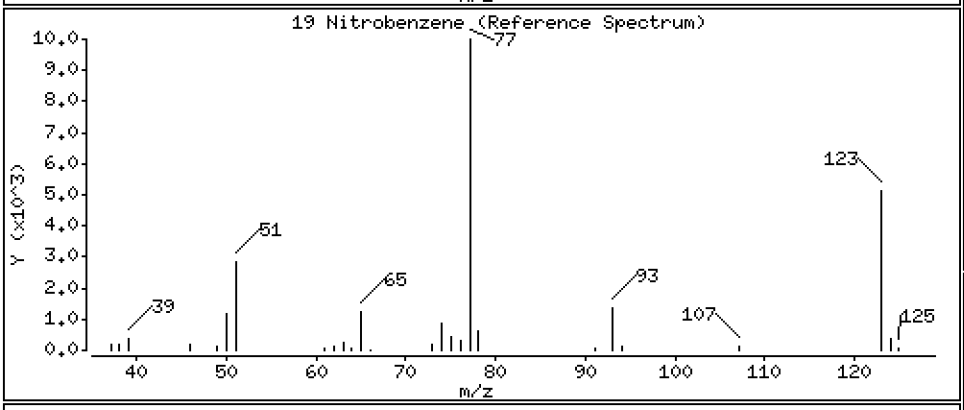
Concentration: 3.171 ug/mL

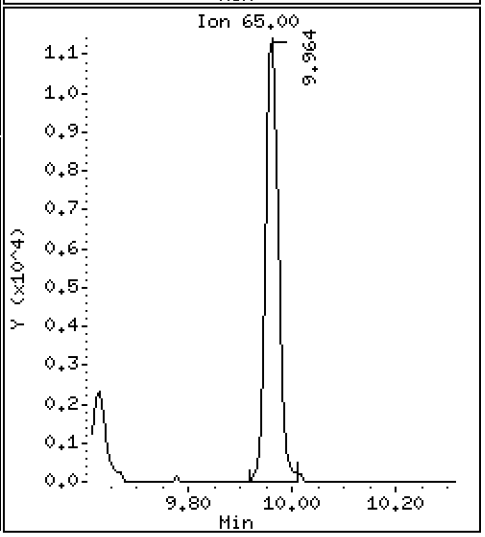


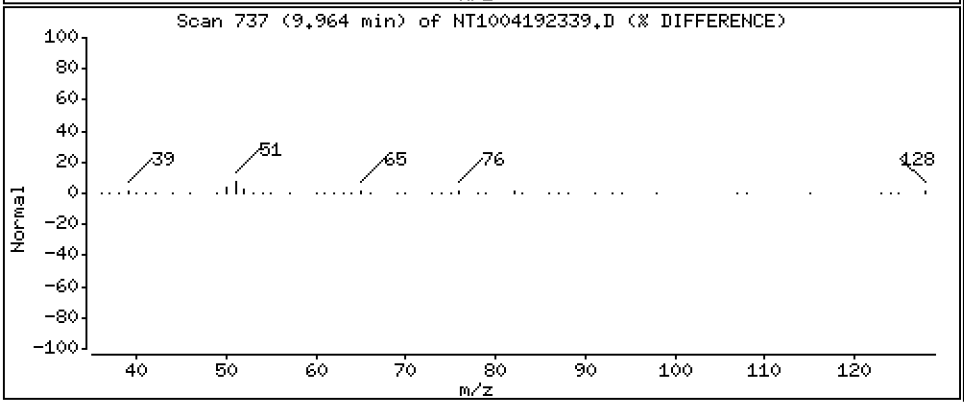












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

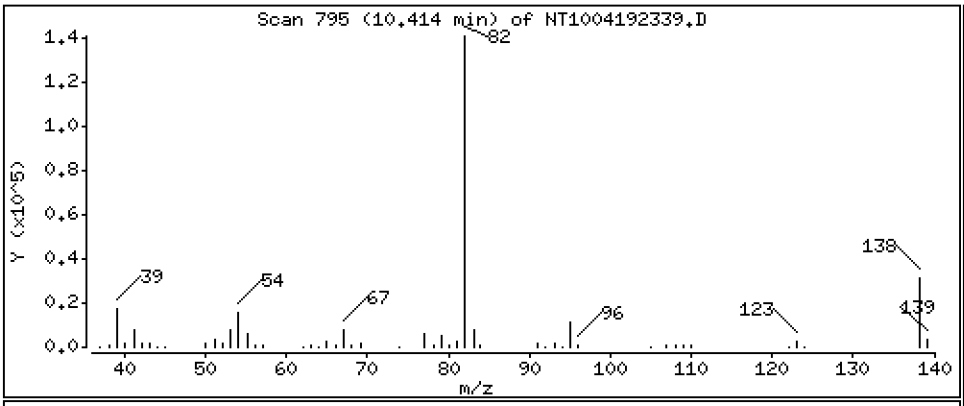
Operator: VTS

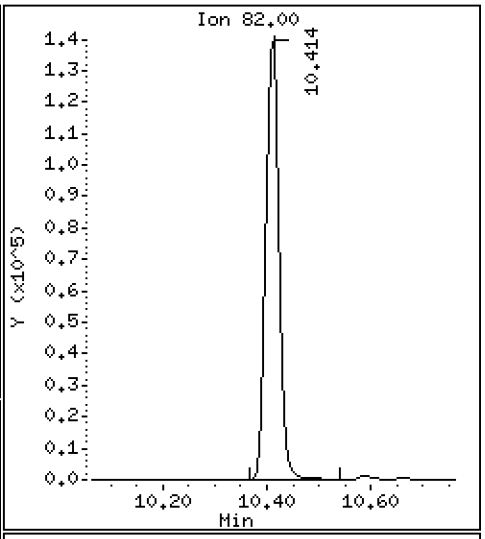
Column phase: ZB-5msi

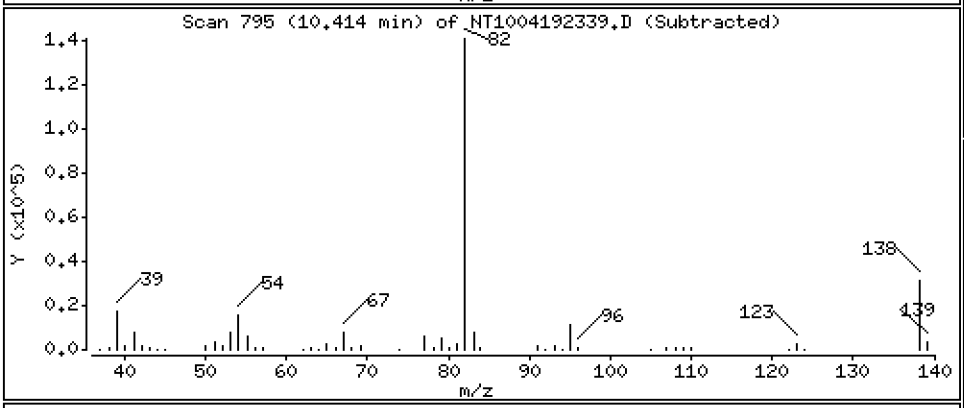
Column diameter: 0.25

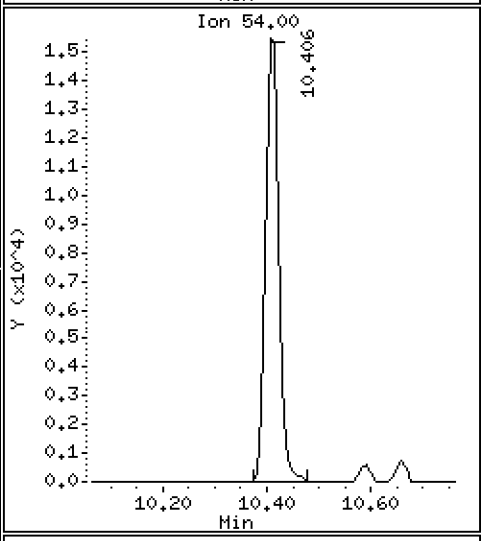
20 Isophorone

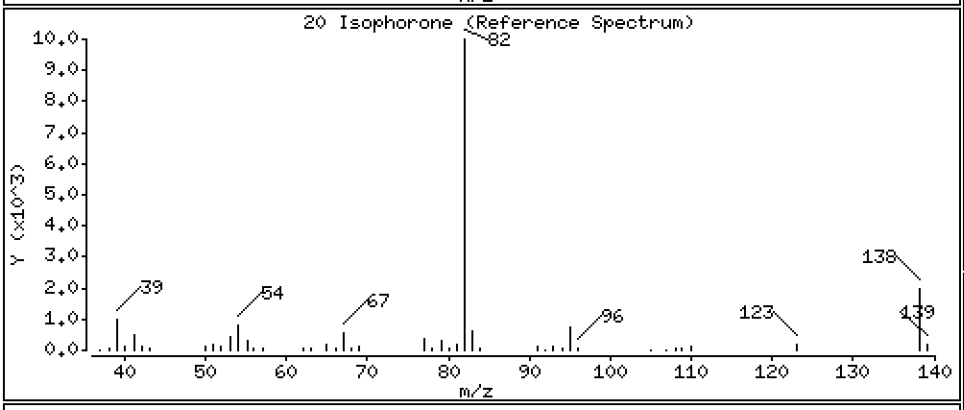
Concentration: 4.895 ug/mL

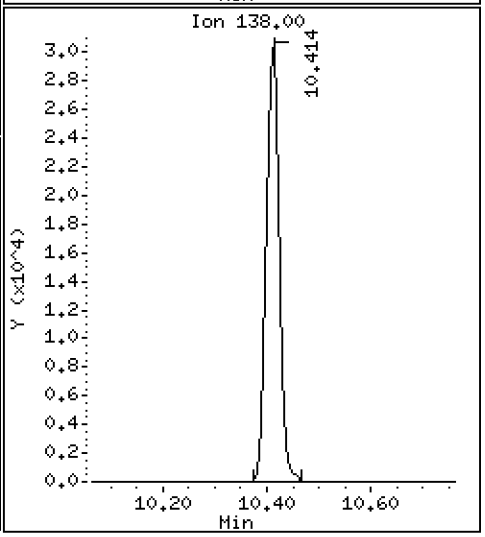


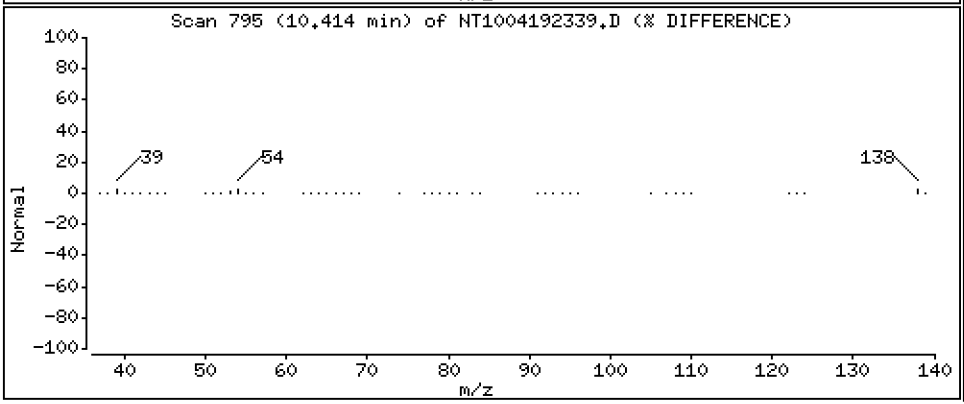












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

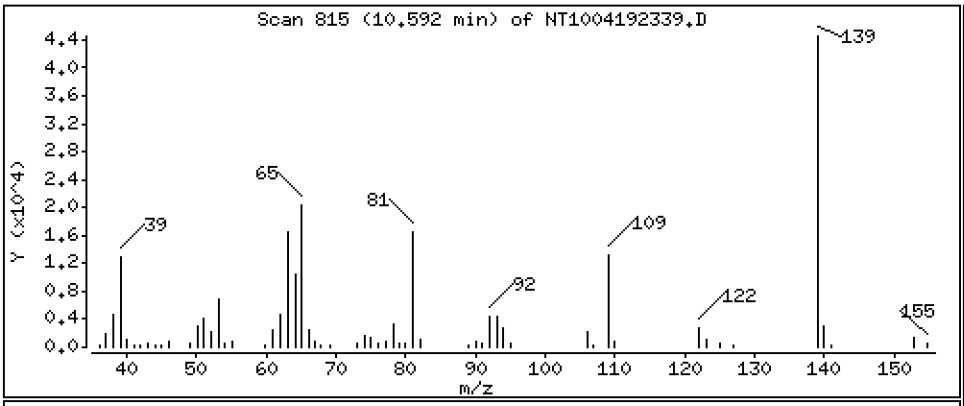
Operator: VTS

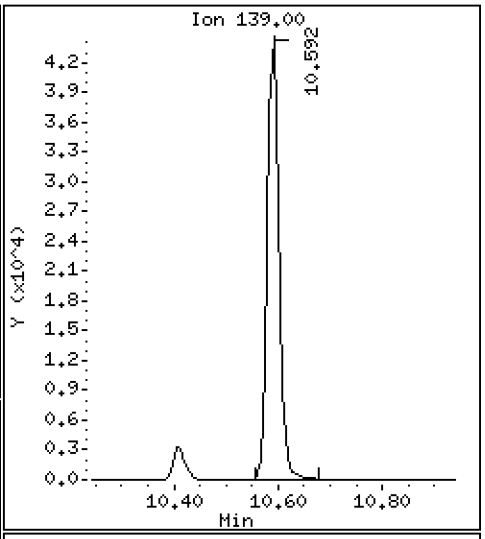
Column phase: ZB-5msi

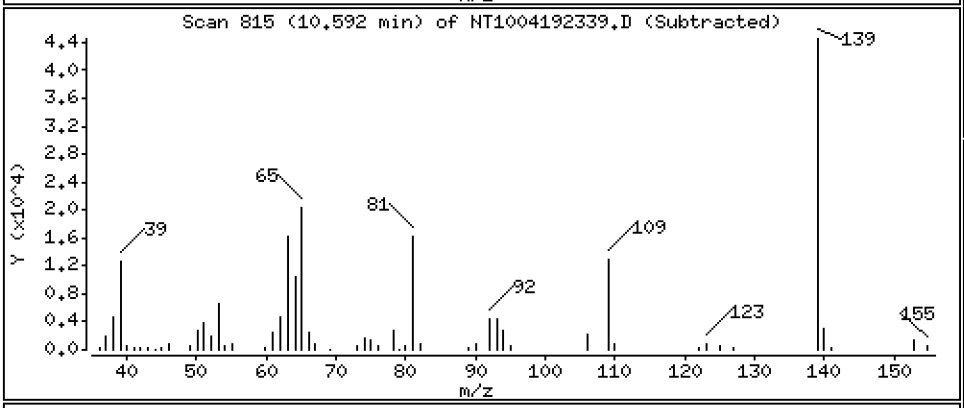
Column diameter: 0.25

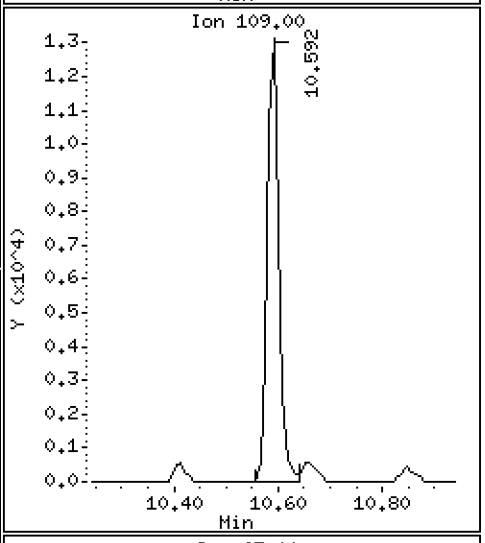
21 2-Nitrophenol

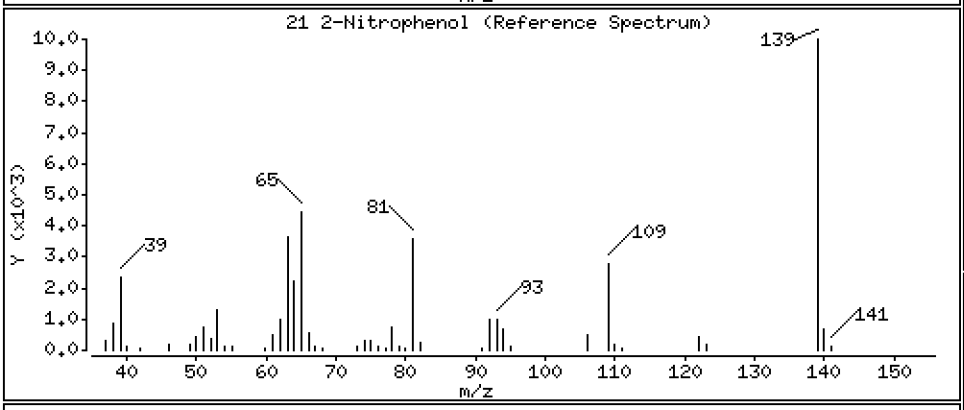
Concentration: 3.327 ug/mL

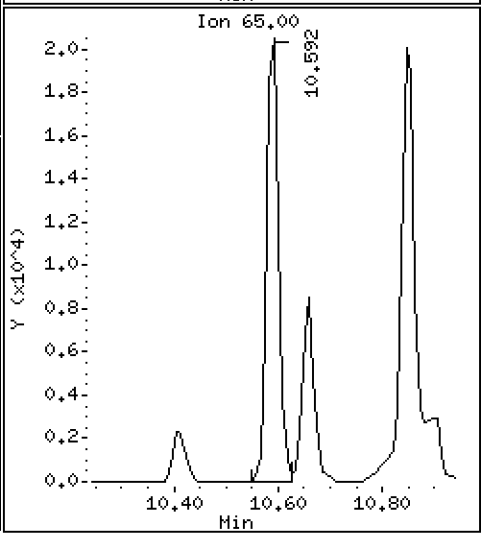


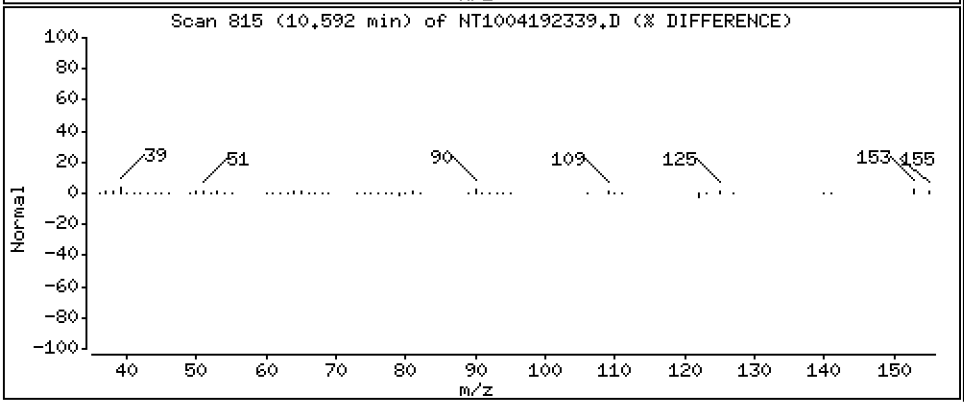












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

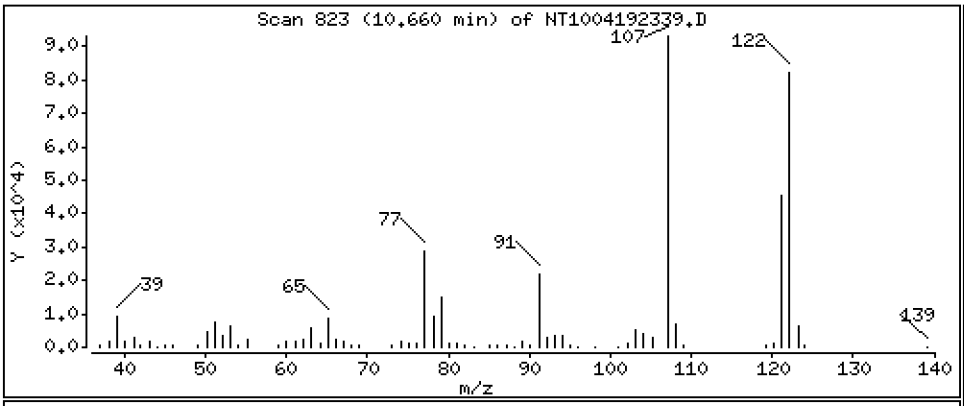
Operator: VTS

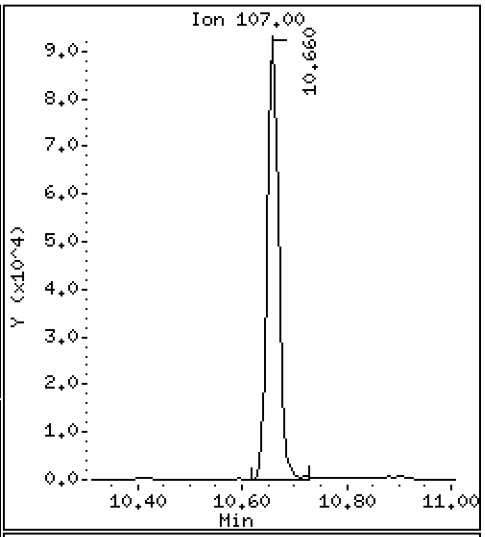
Column phase: ZB-5msi

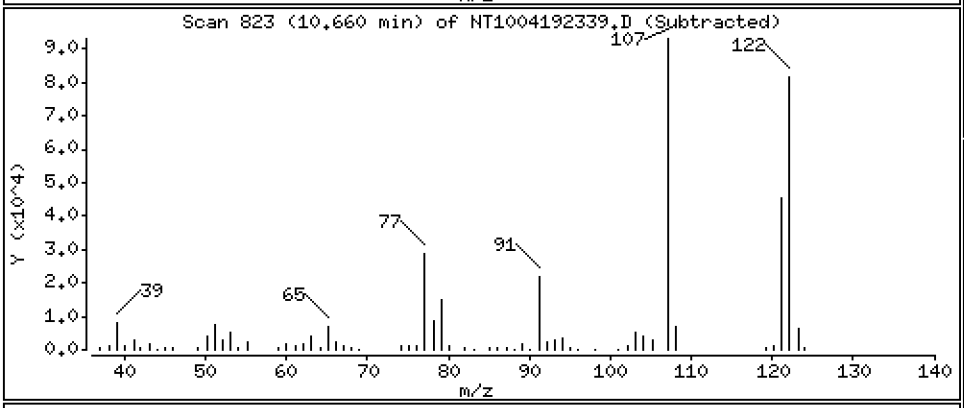
Column diameter: 0.25

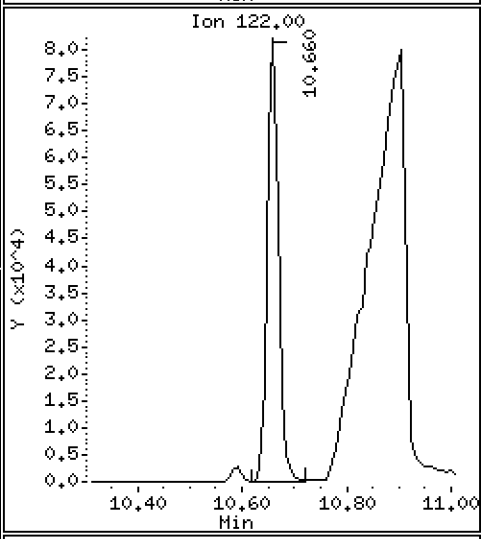
22 2,4-Dimethylphenol

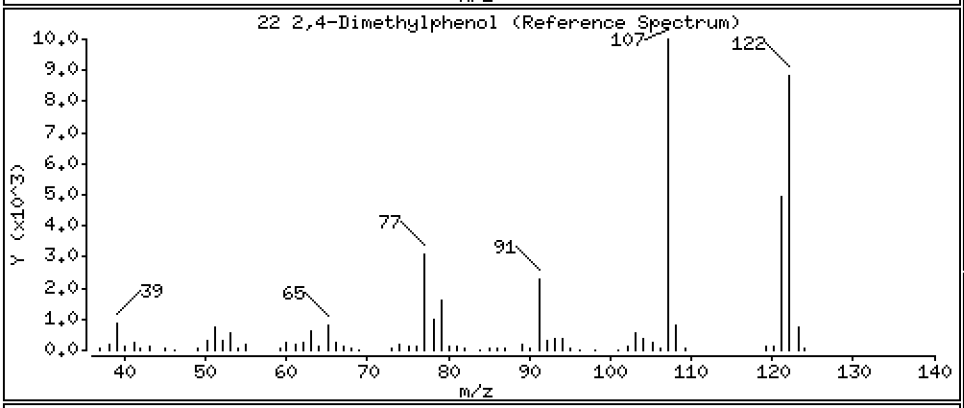
Concentration: 3.613 ug/mL

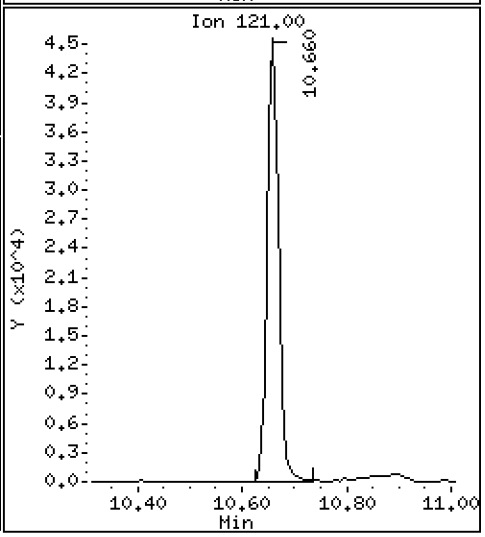


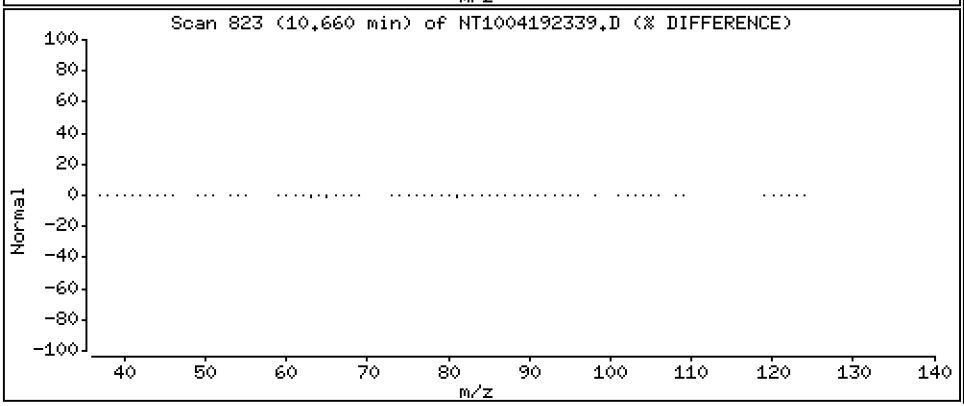












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

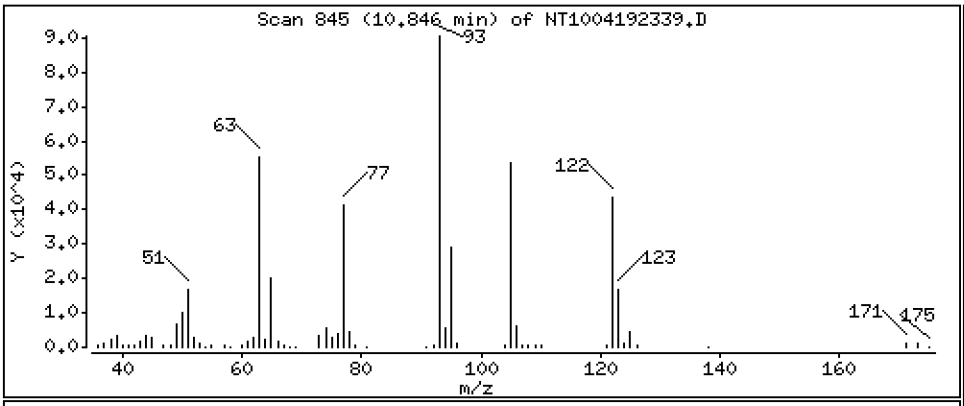
Operator: VTS

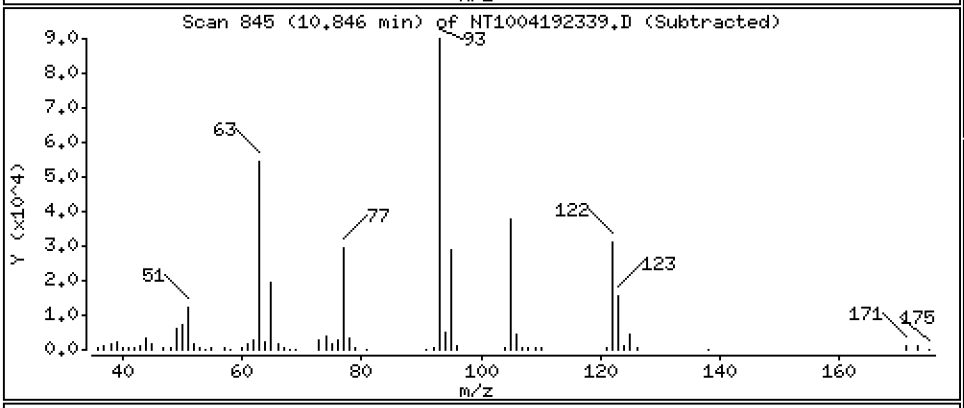
Column phase: ZB-5msi

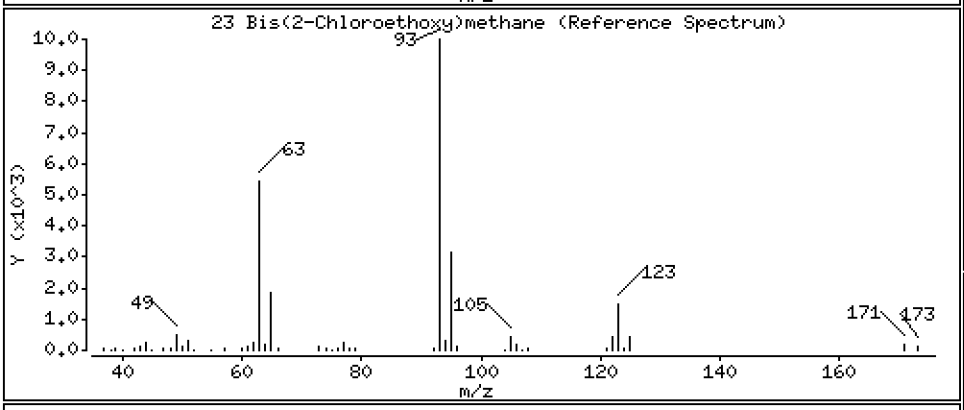
Column diameter: 0.25

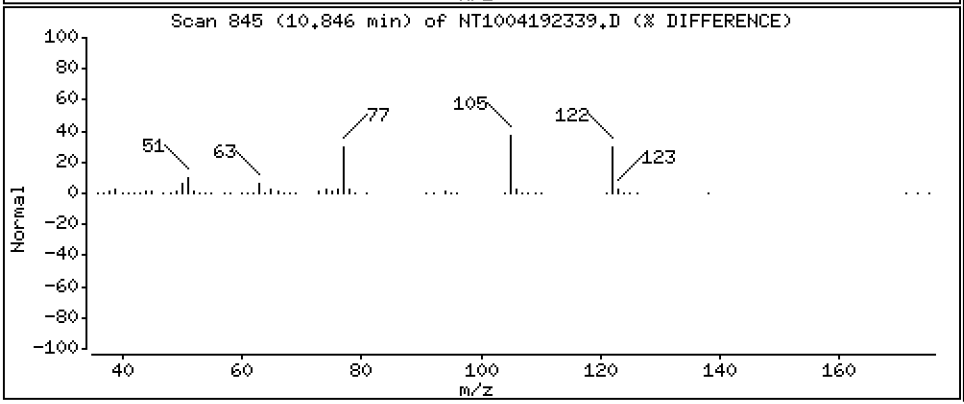
23 Bis(2-Chloroethoxy)methane

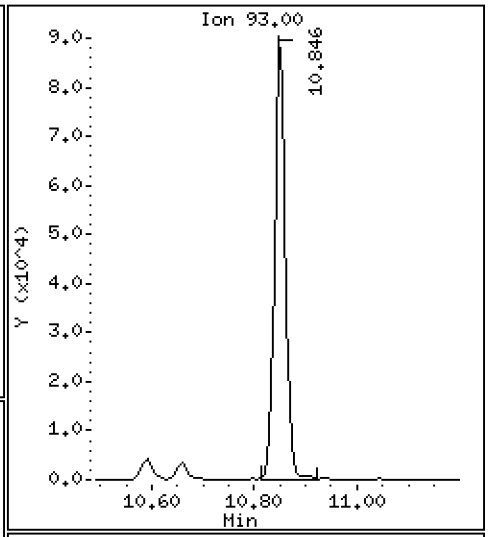
Concentration: 3.703 ug/mL

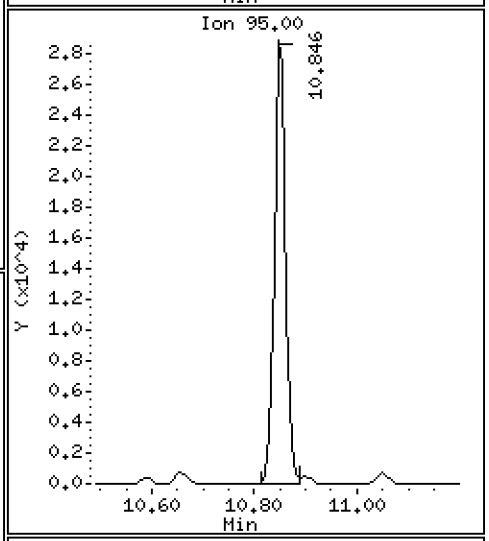


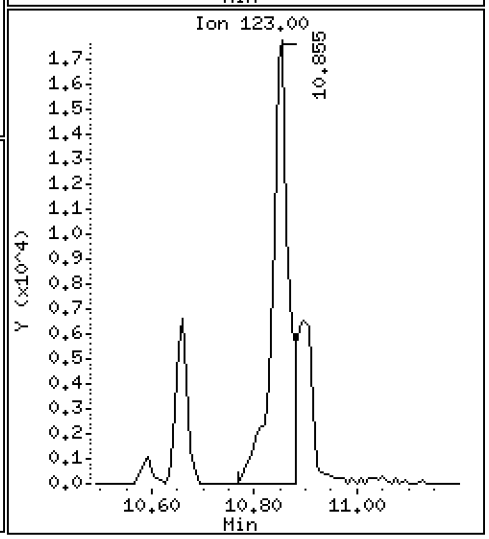












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

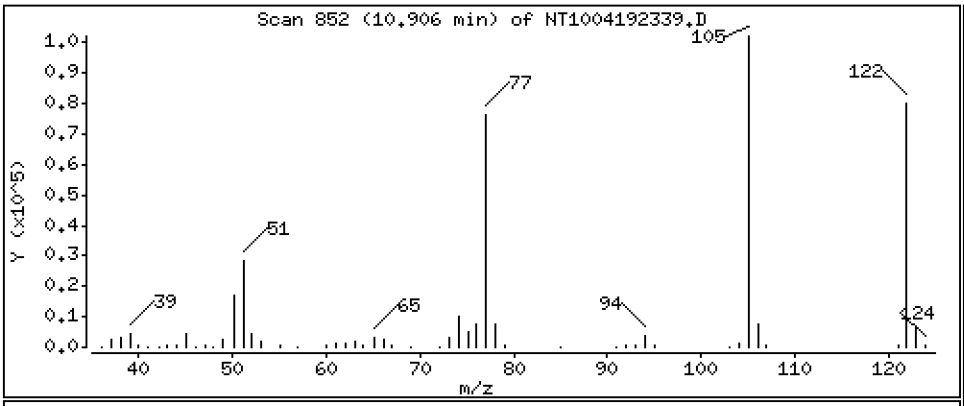
Operator: VTS

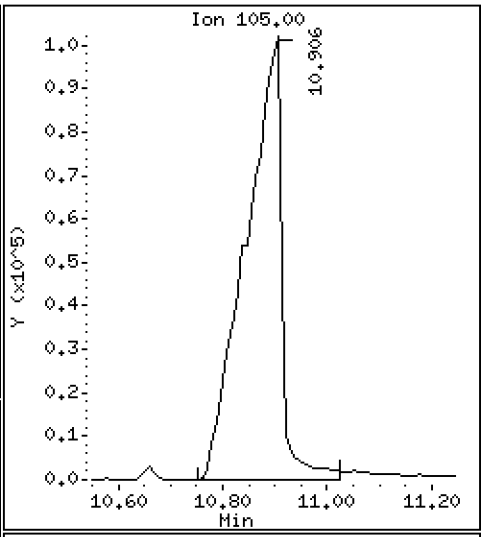
Column phase: ZB-5msi

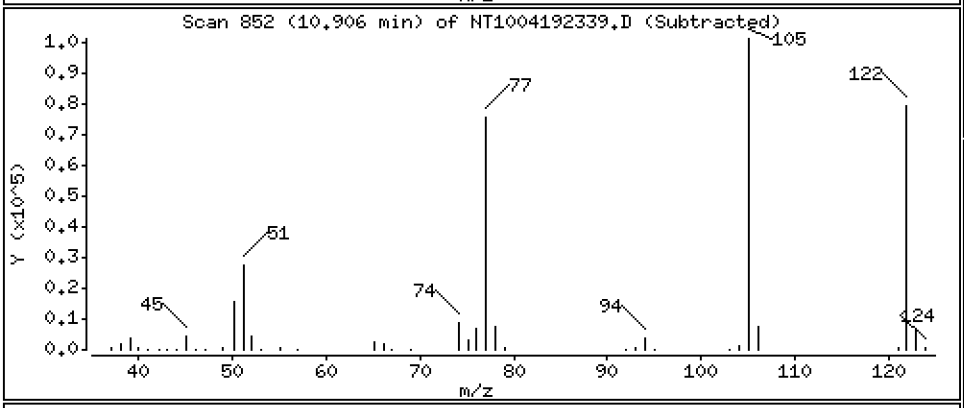
Column diameter: 0.25

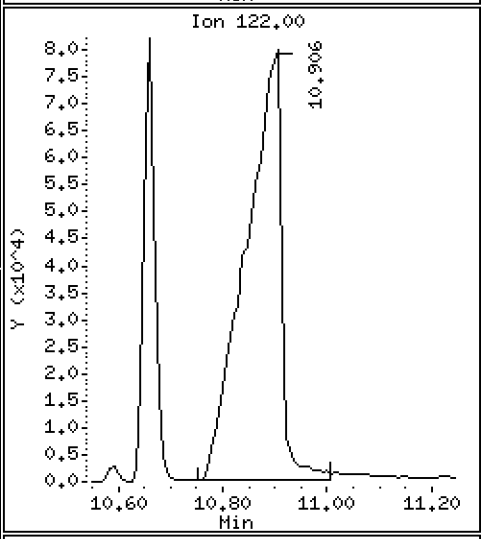
24 Benzoic acid

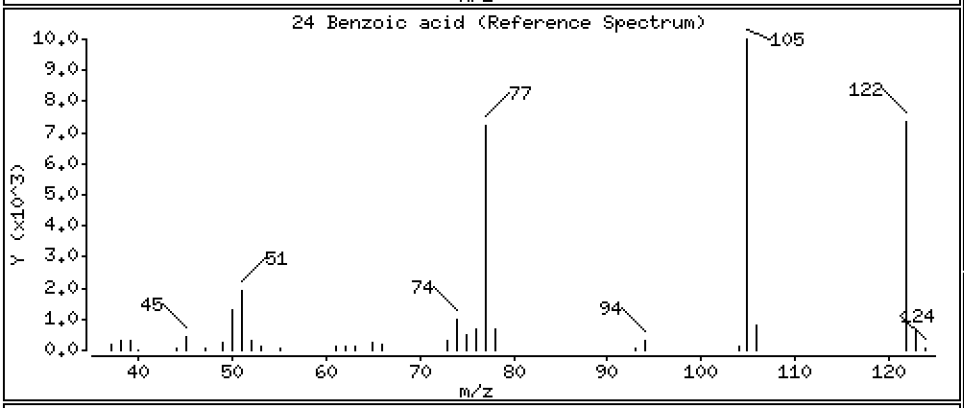
Concentration: 21.48 ug/mL

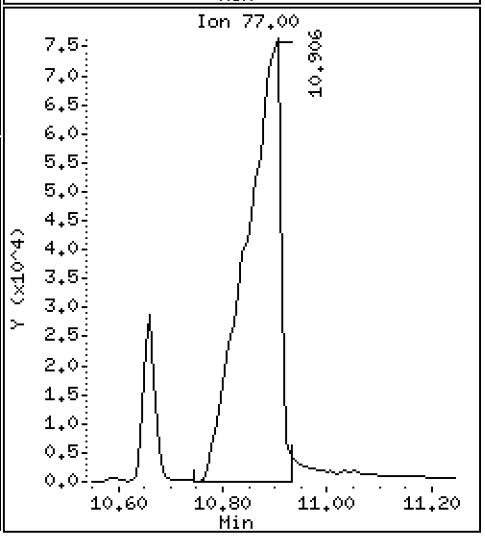


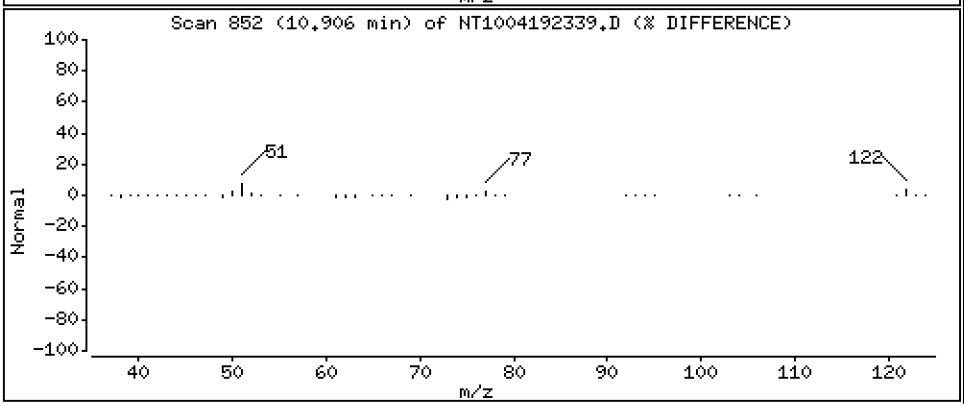












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

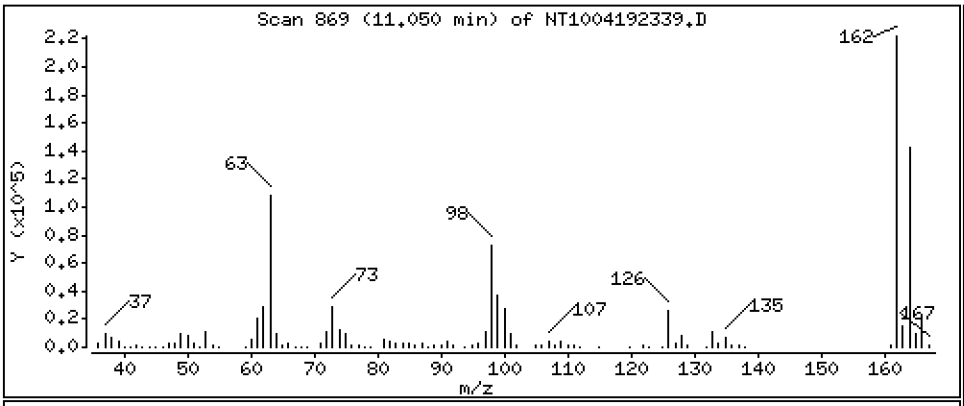
Operator: VTS

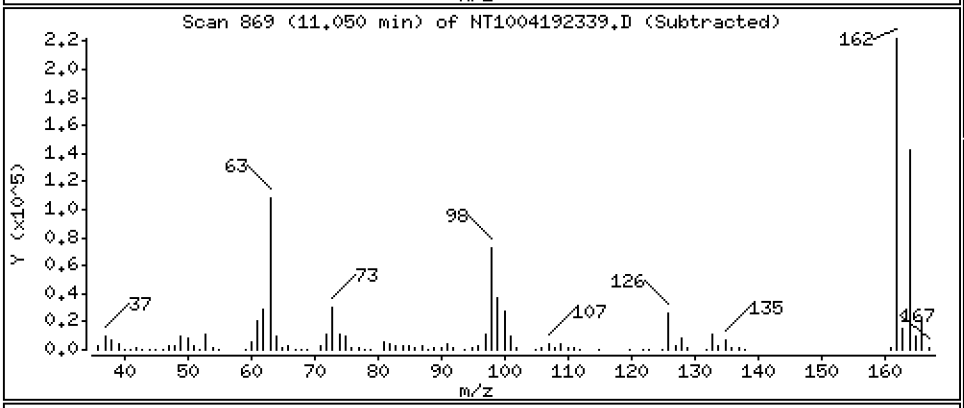
Column phase: ZB-5msi

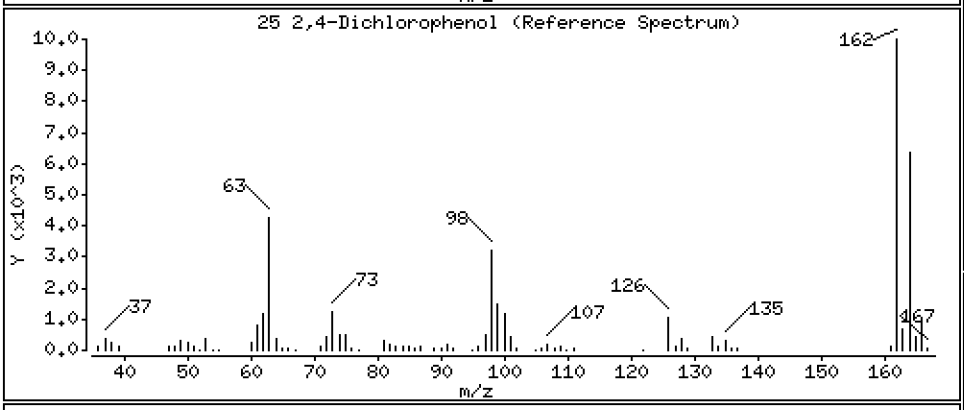
Column diameter: 0.25

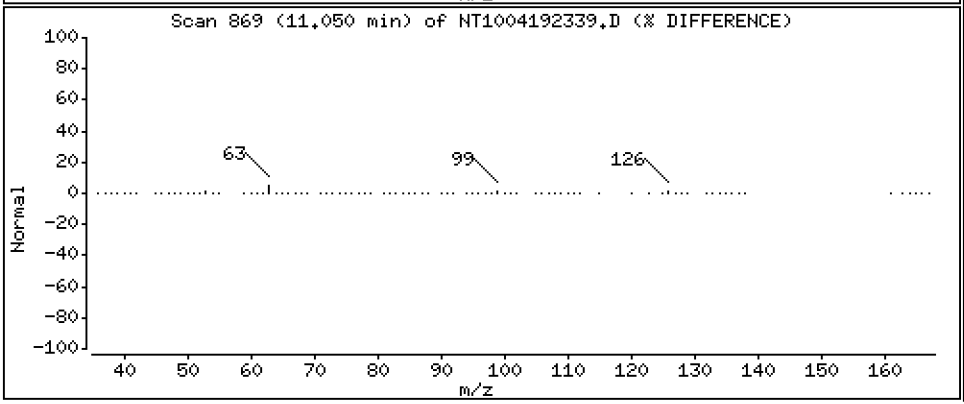
25 2,4-Dichlorophenol

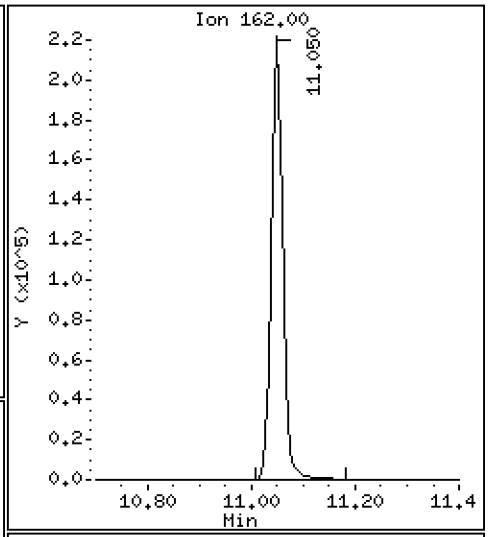
Concentration: 11.70 ug/mL

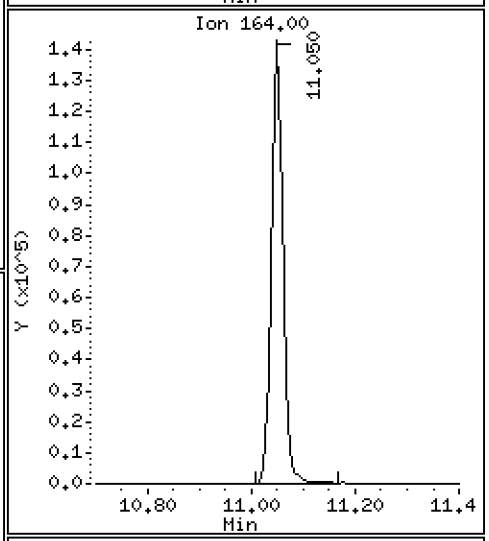


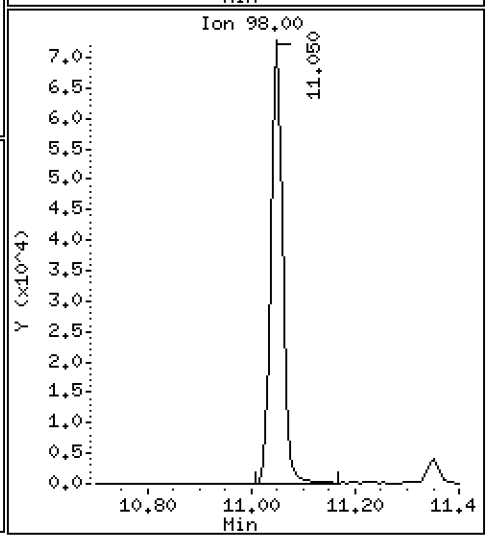












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

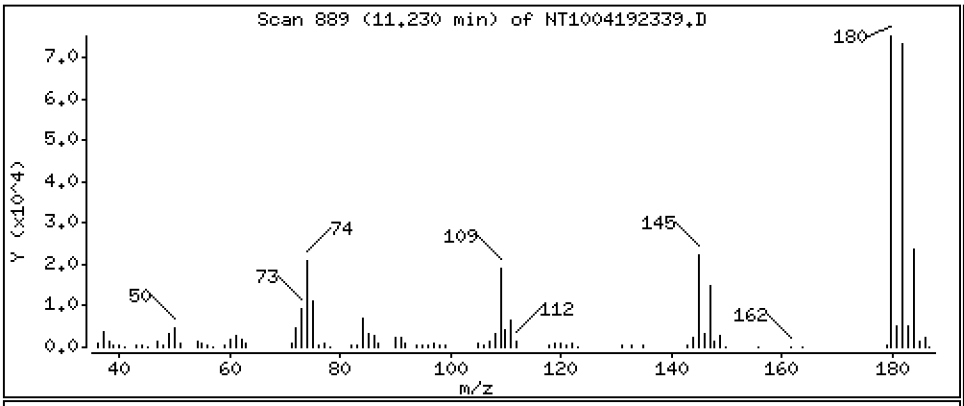
Operator: VTS

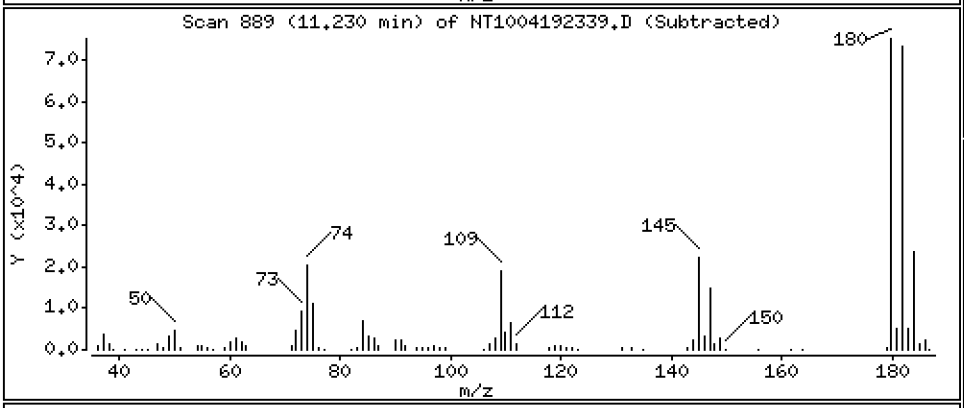
Column phase: ZB-5msi

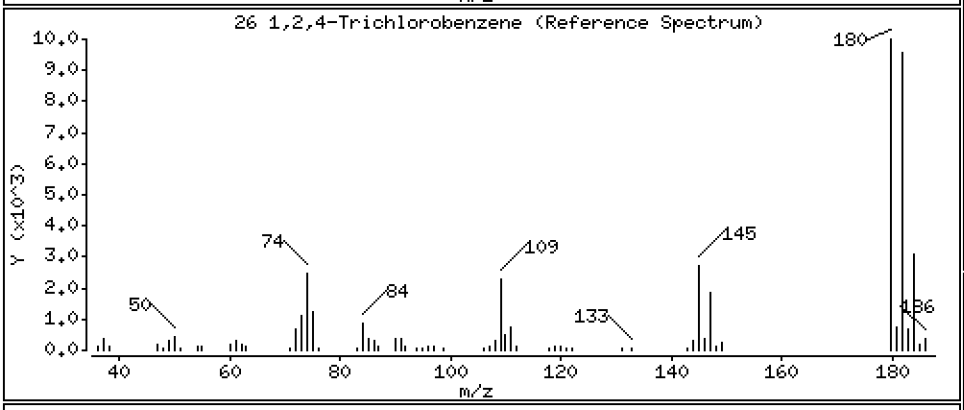
Column diameter: 0.25

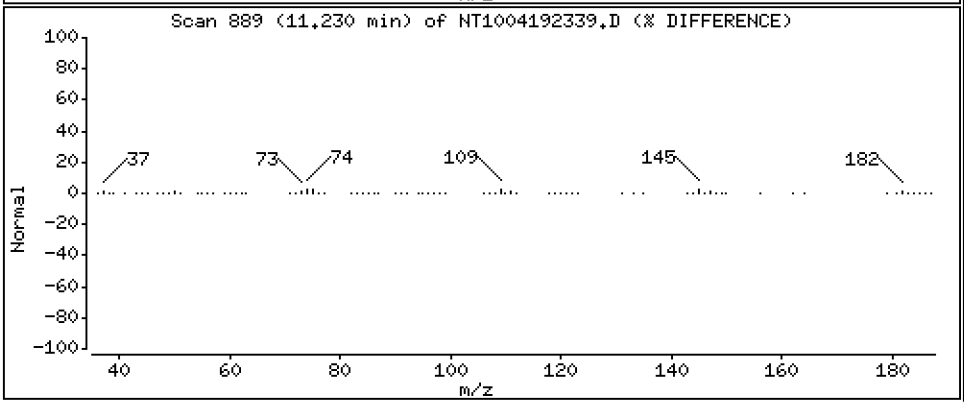
26 1,2,4-Trichlorobenzene

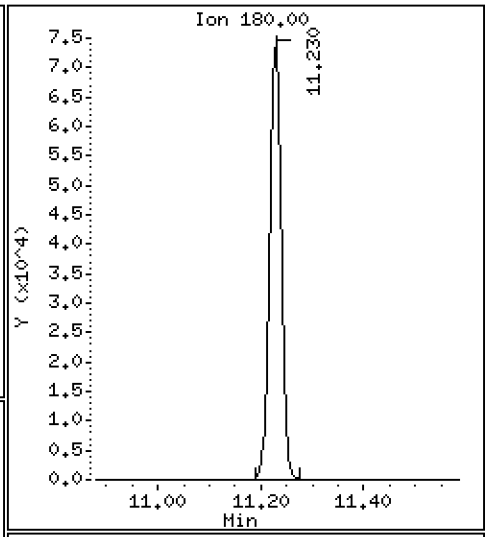
Concentration: 3.281 ug/mL

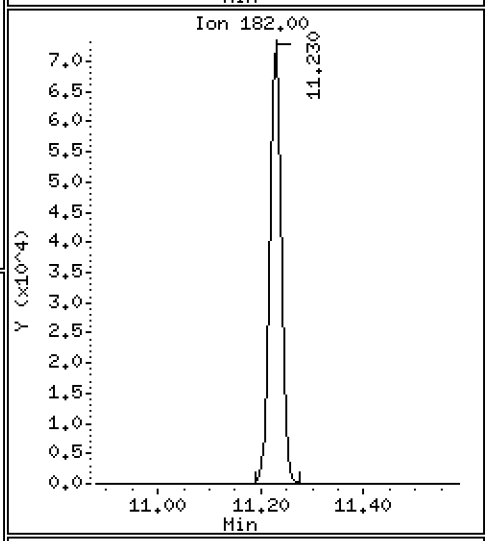


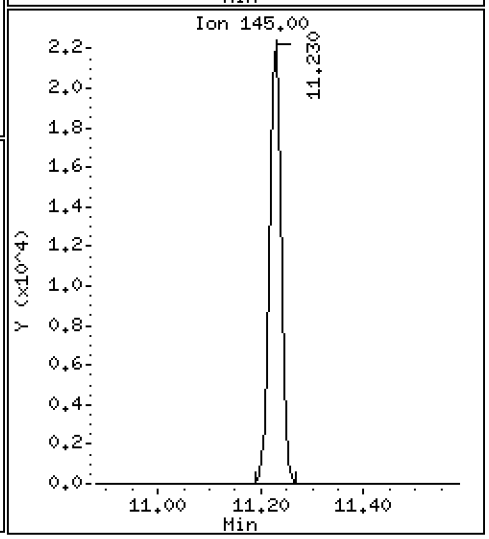












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

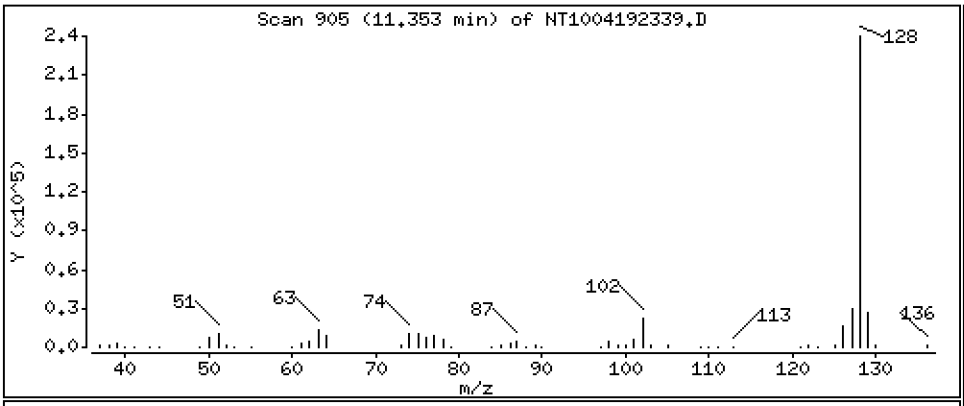
Operator: VTS

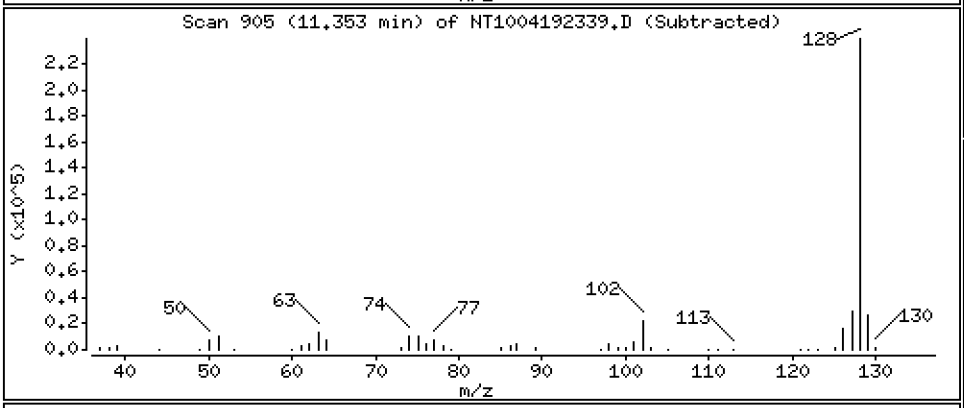
Column phase: ZB-5msi

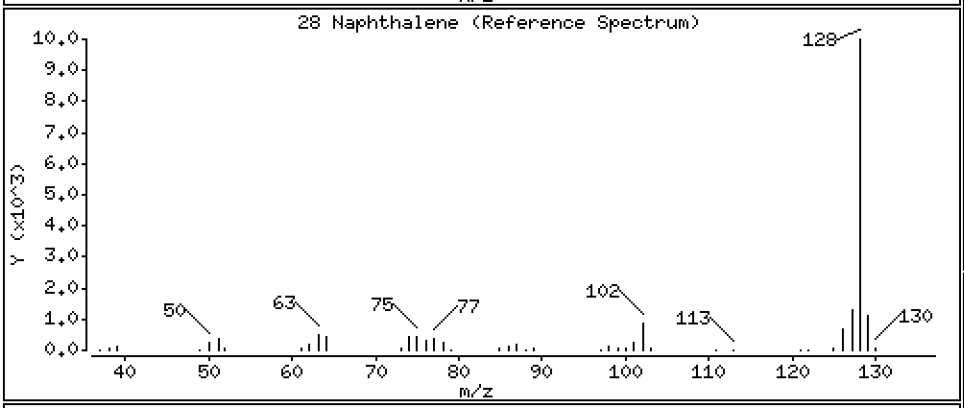
Column diameter: 0.25

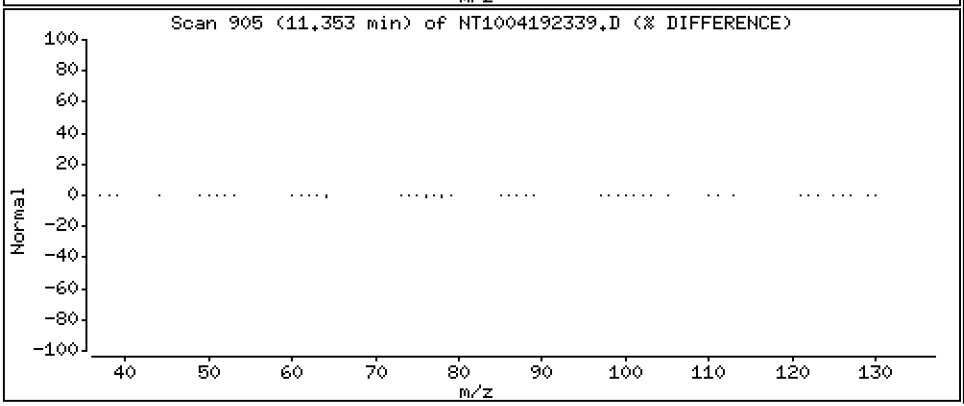
28 Naphthalene

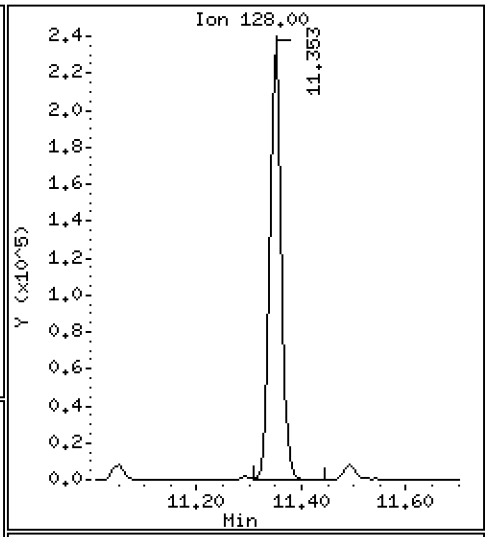
Concentration: 3.244 ug/mL

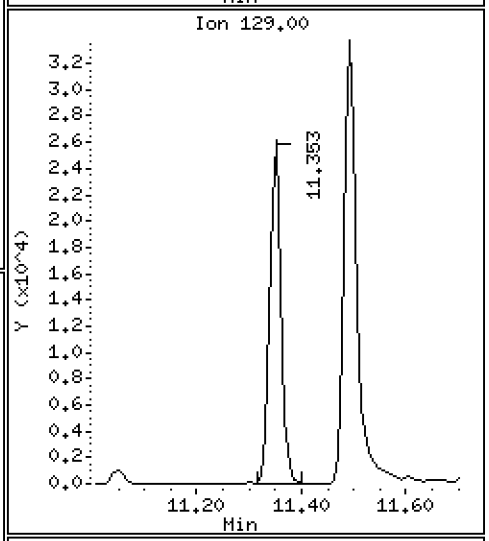


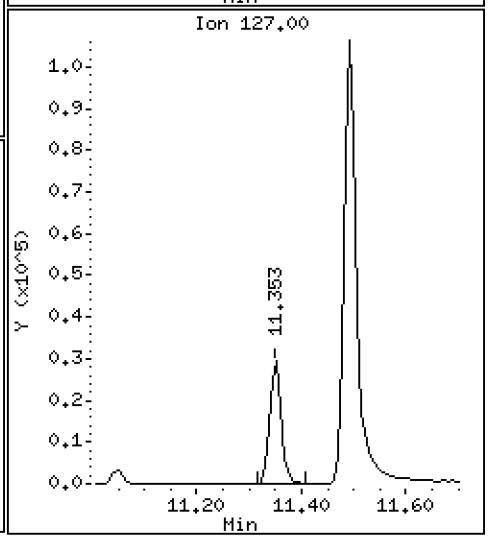












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

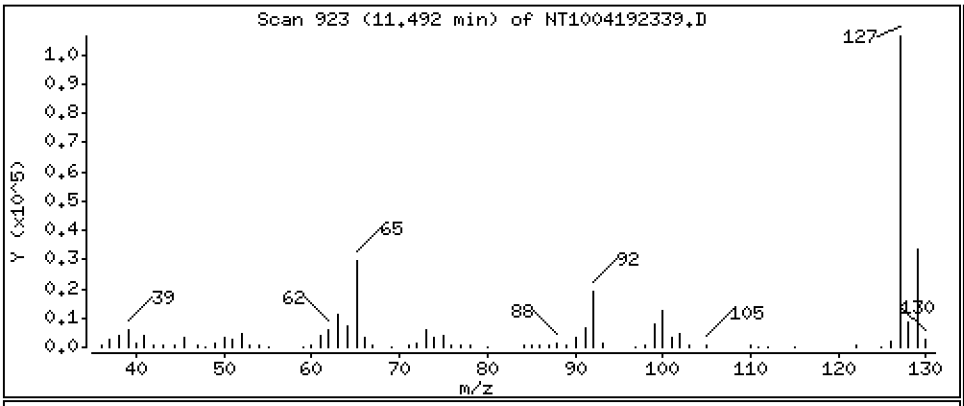
Operator: VTS

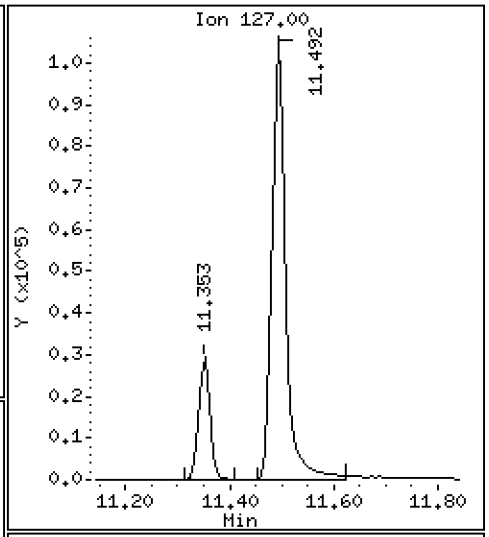
Column phase: ZB-5msi

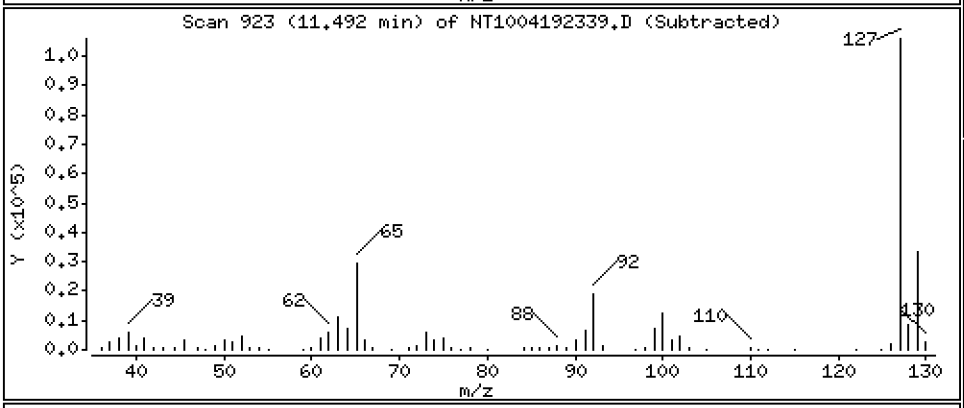
Column diameter: 0.25

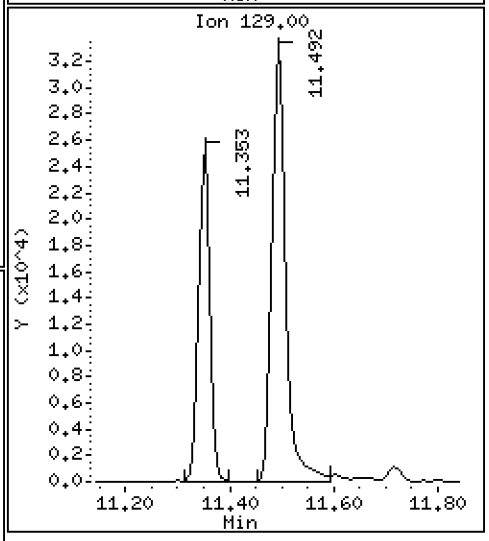
29 4-Chloroaniline

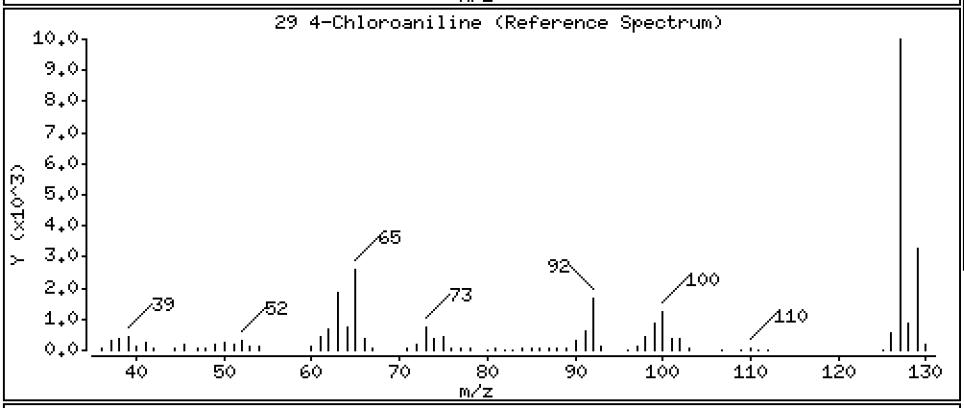
Concentration: 4.621 ug/mL

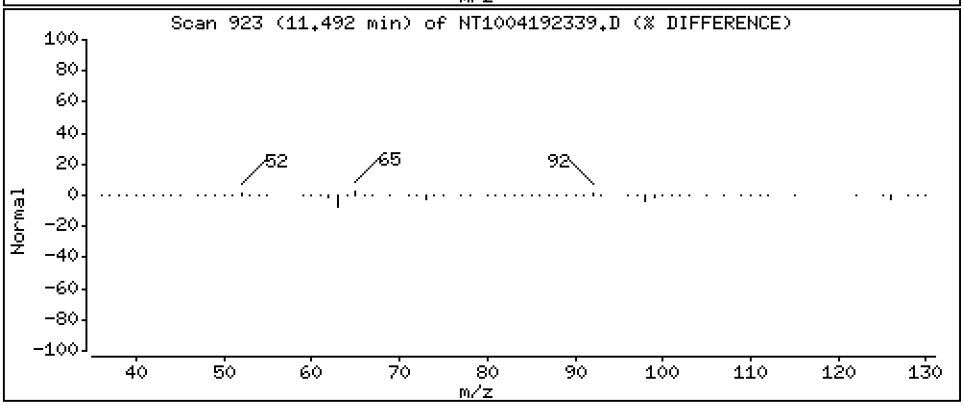












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192339.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

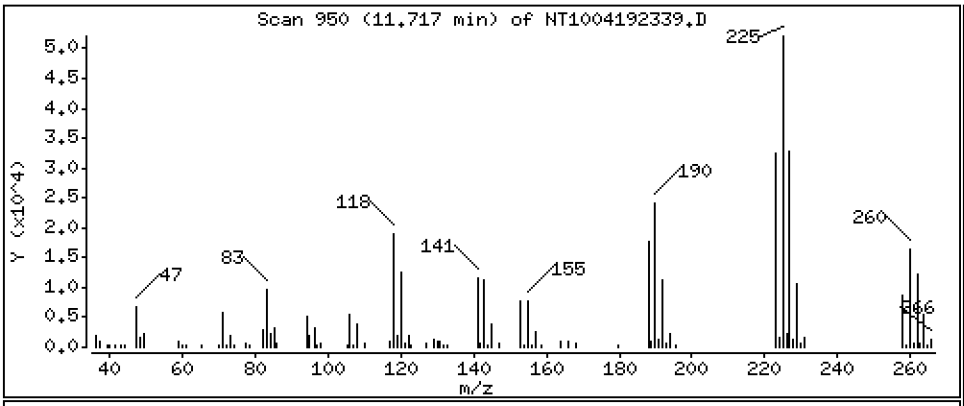
Operator: VTS

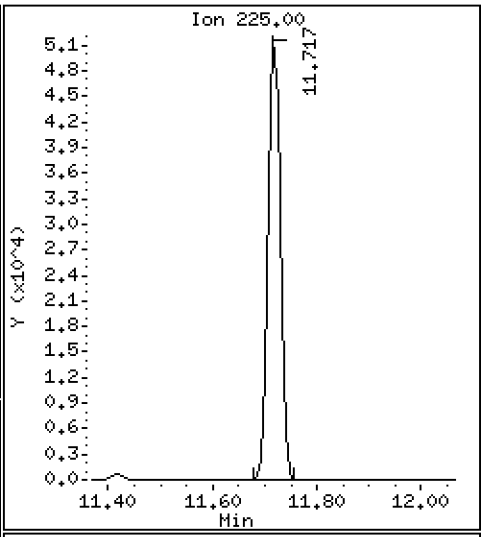
Column phase: ZB-5msi

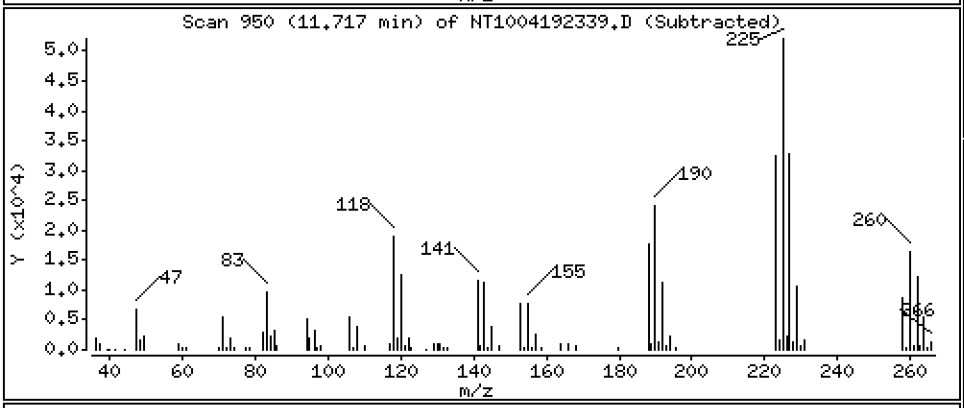
Column diameter: 0.25

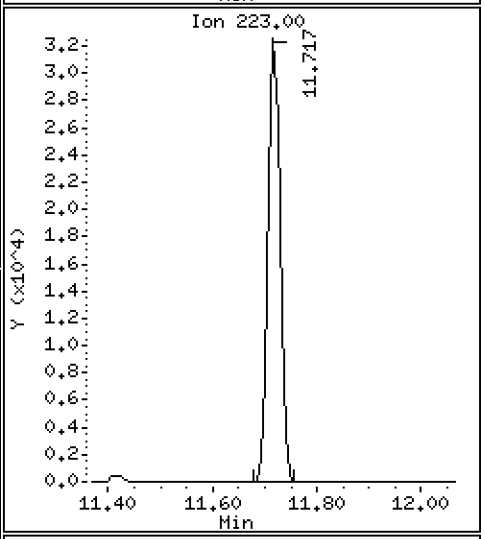
30 Hexachlorobutadiene

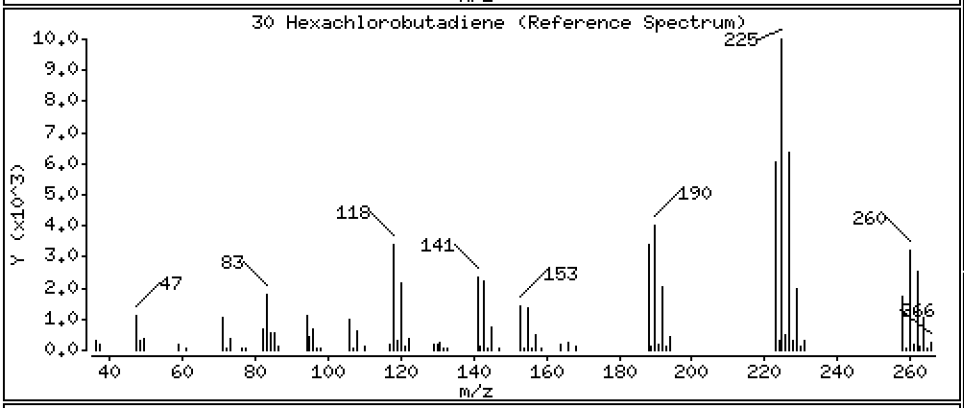
Concentration: 3.707 ug/mL

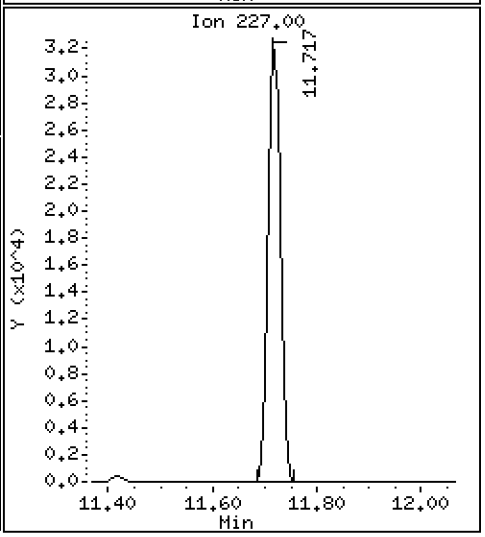


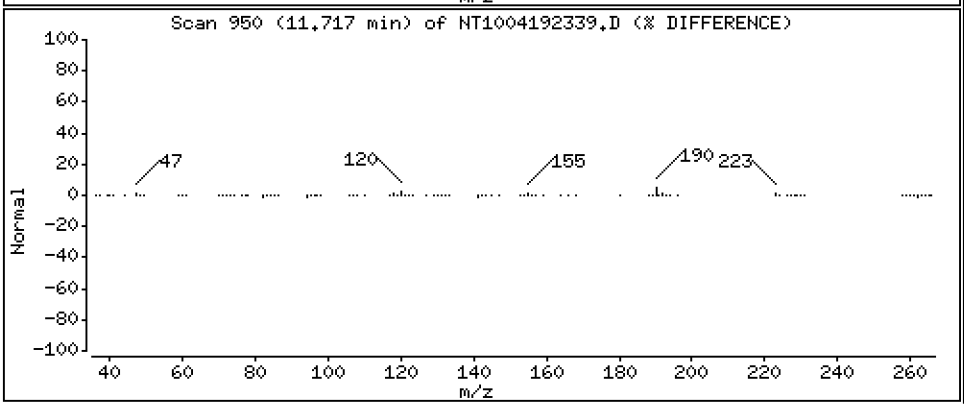












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192339.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

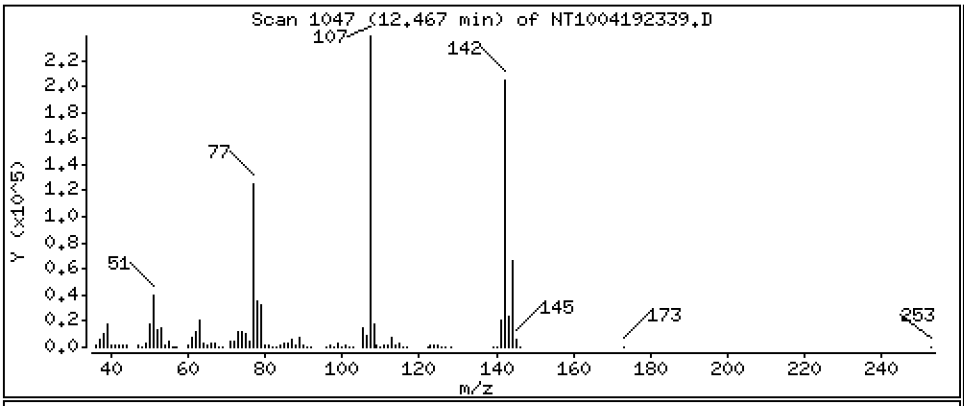
Operator: VTS

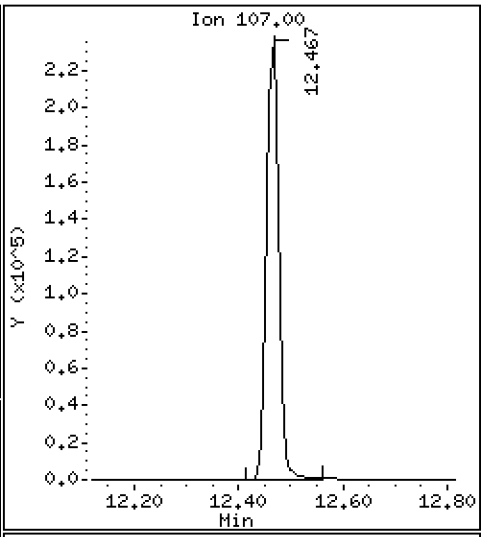
Column phase: ZB-5msi

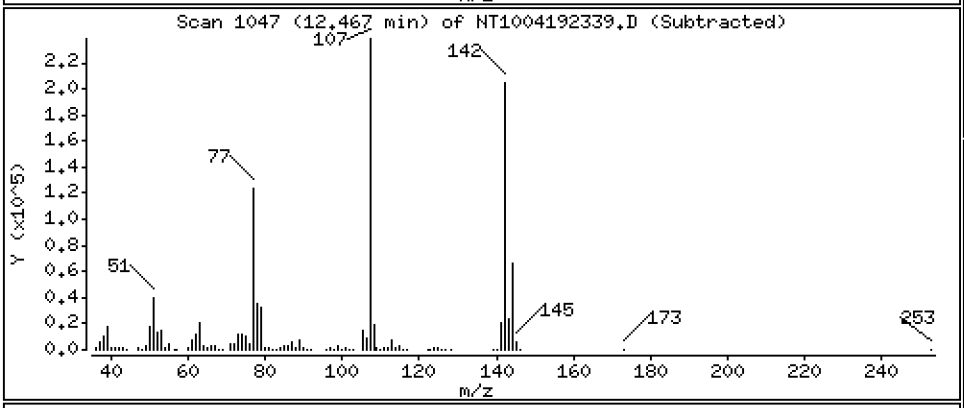
Column diameter: 0.25

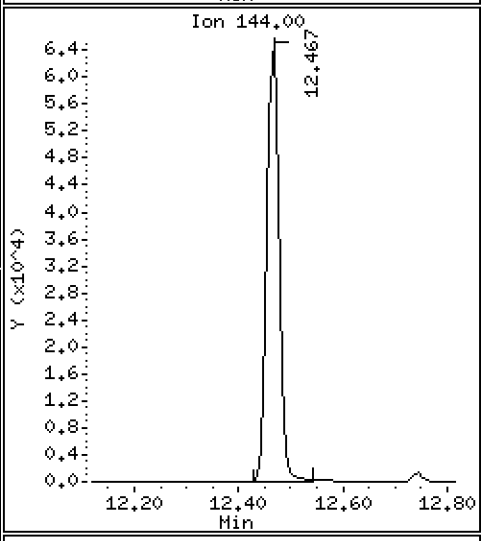
31 4-Chloro-3-methylphenol

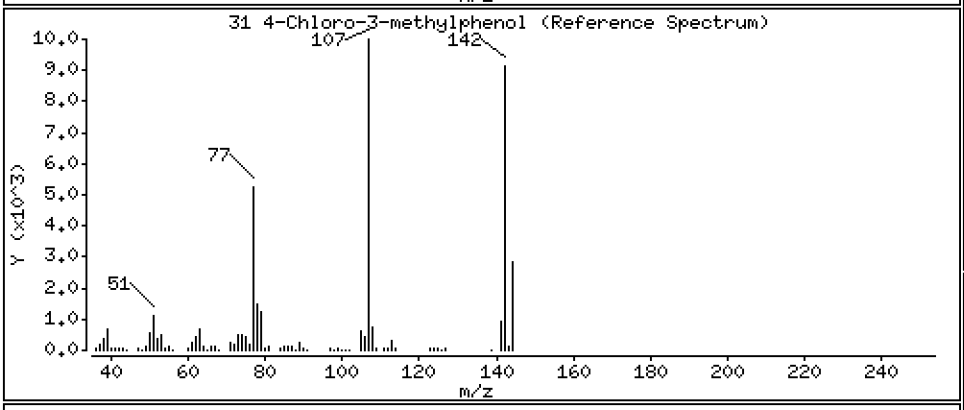
Concentration: 10.77 ug/mL

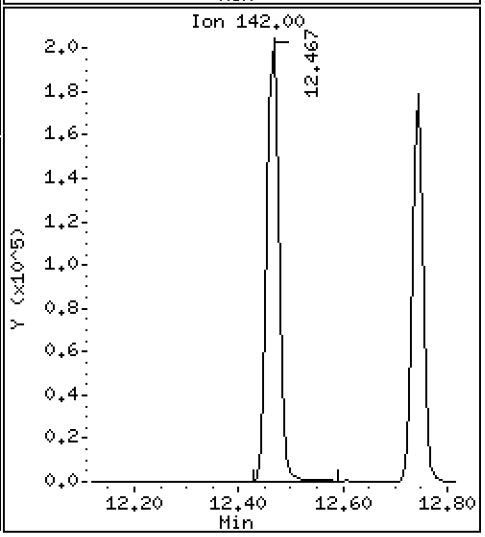


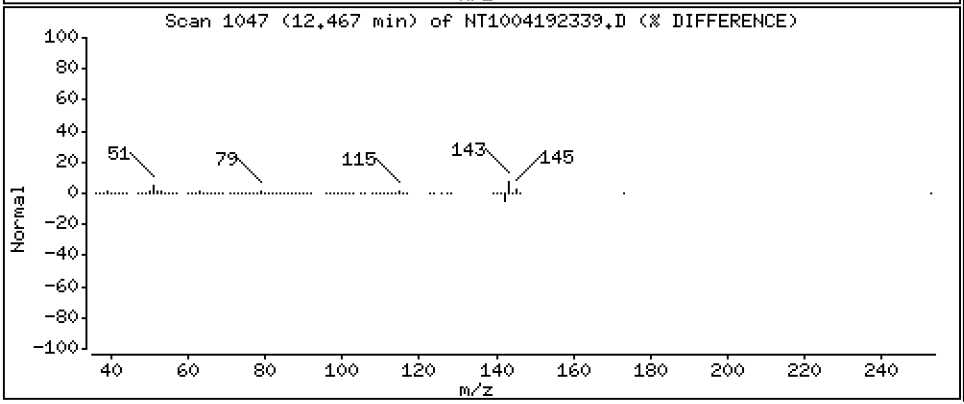












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192339.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

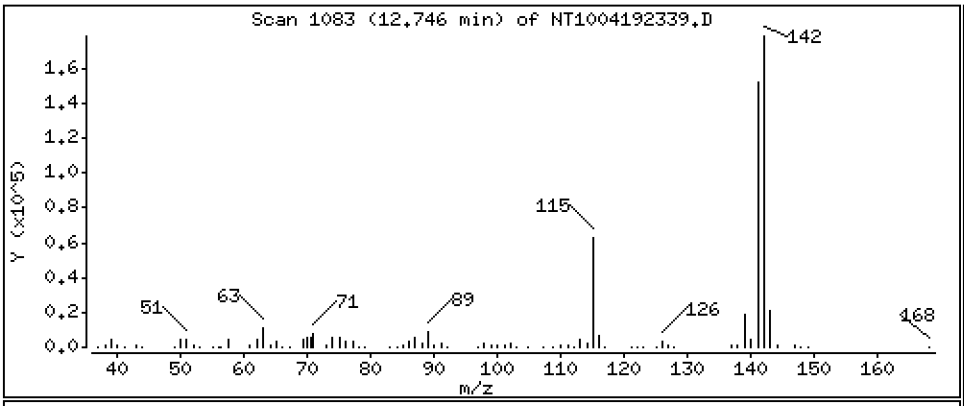
Operator: VTS

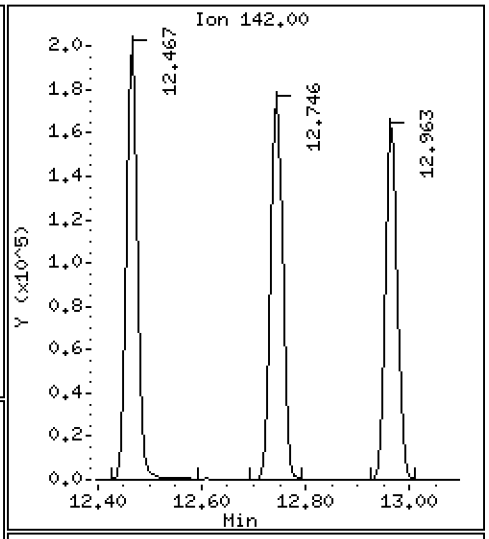
Column phase: ZB-5msi

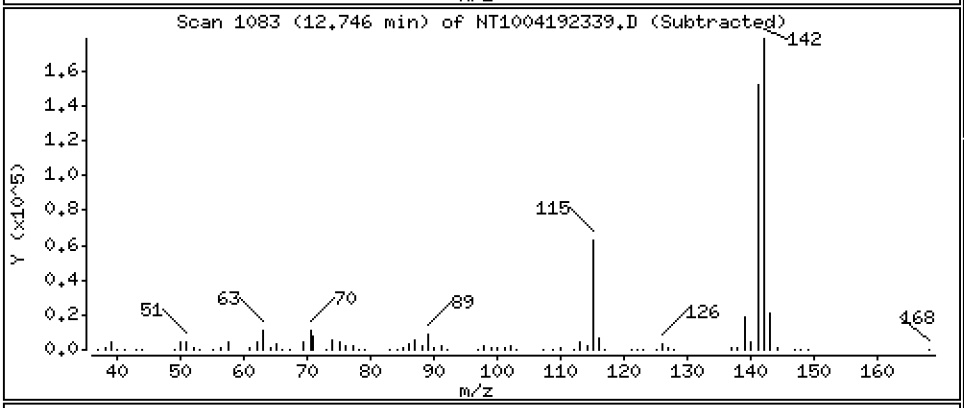
Column diameter: 0.25

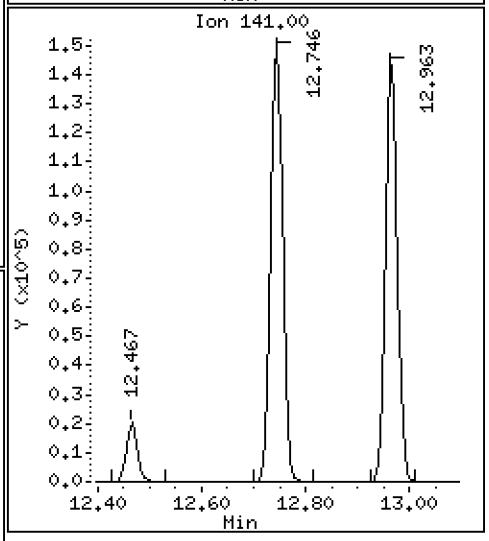
32 2-Methylnaphthalene

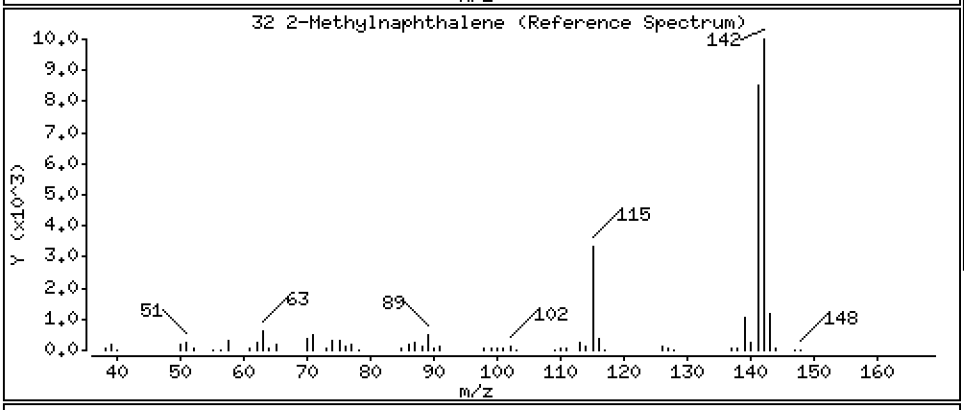
Concentration: 3.289 ug/mL

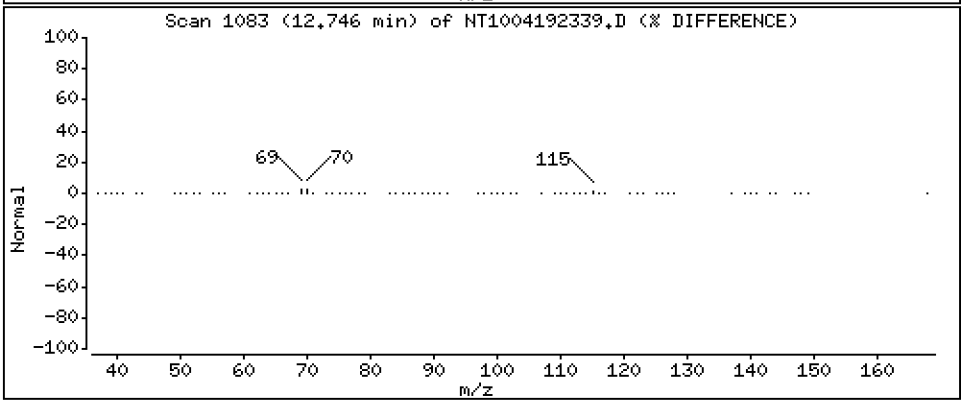












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192339.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

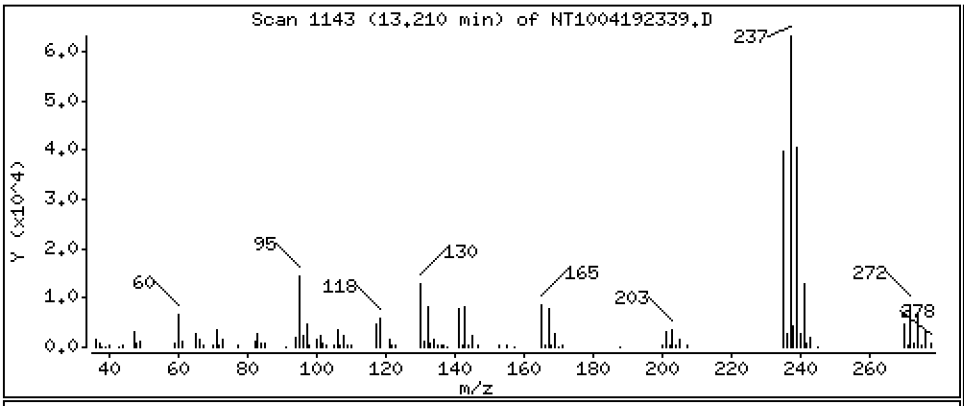
Operator: VTS

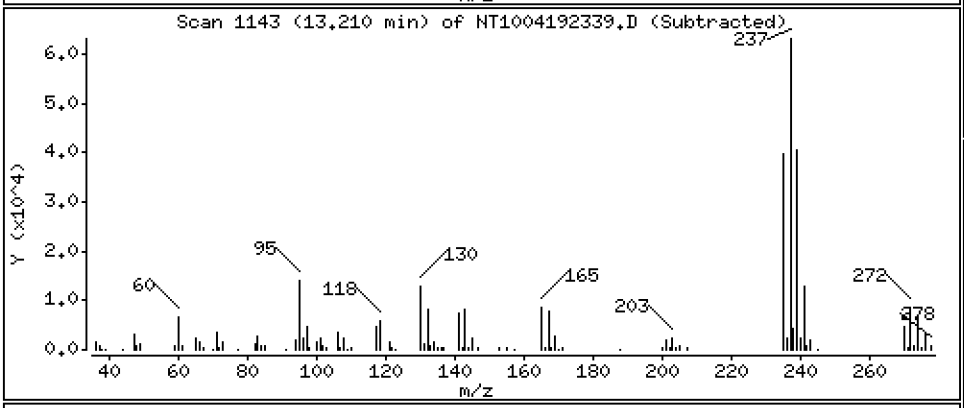
Column phase: ZB-5msi

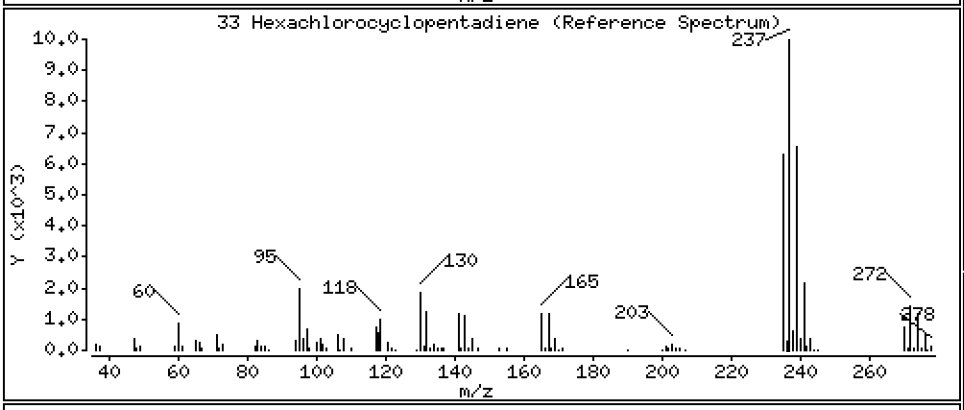
Column diameter: 0.25

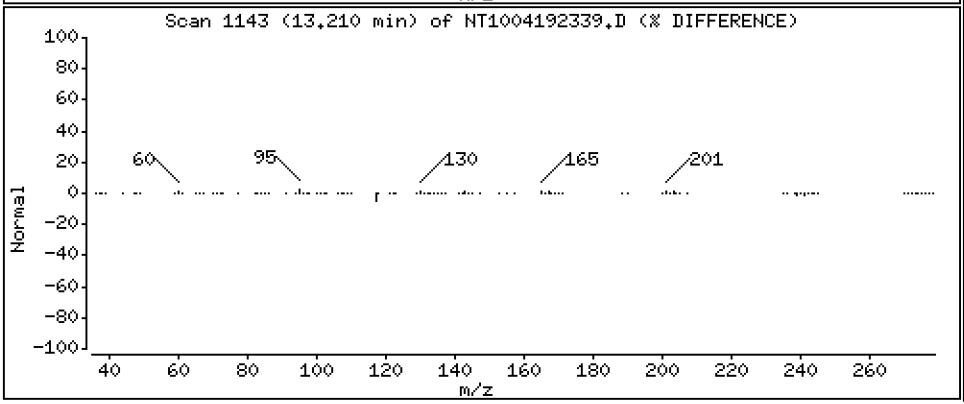
33 Hexachlorocyclopentadiene

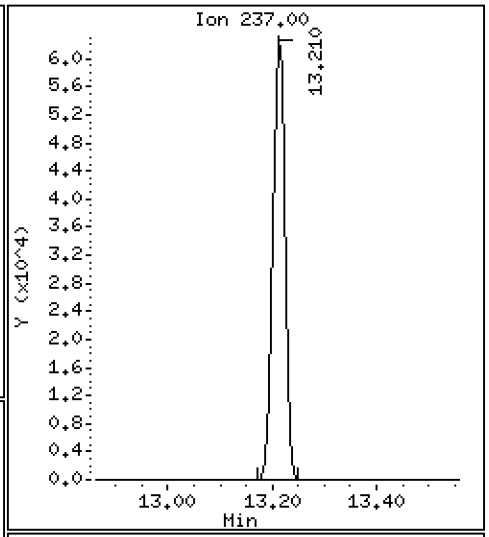
Concentration: 3.976 ug/mL

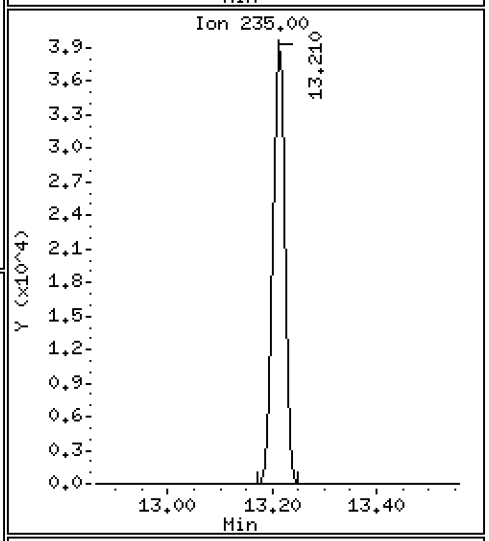


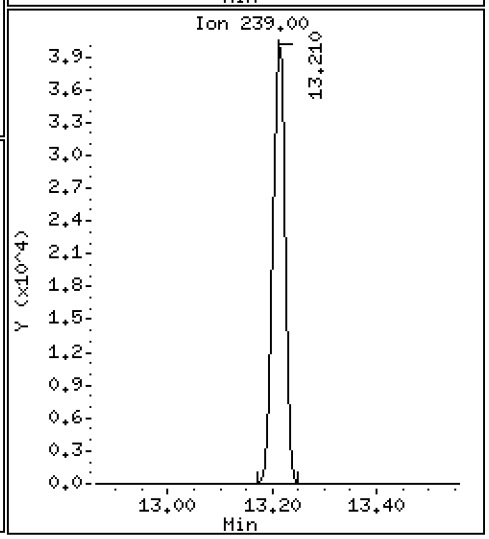












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

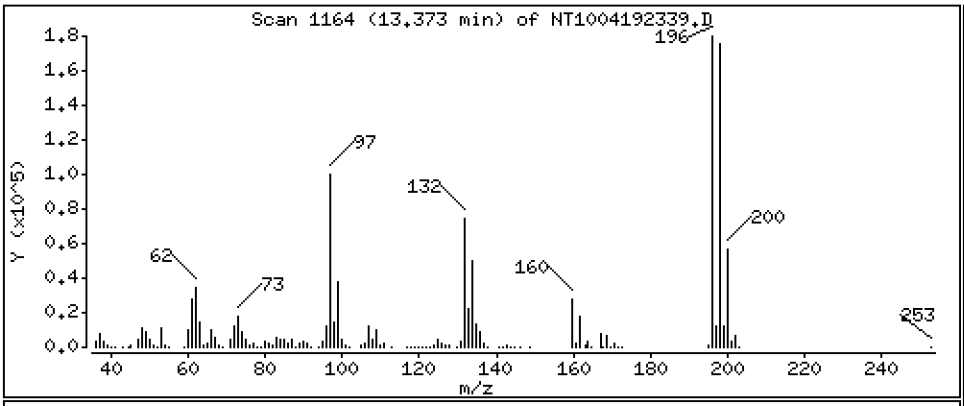
Operator: VTS

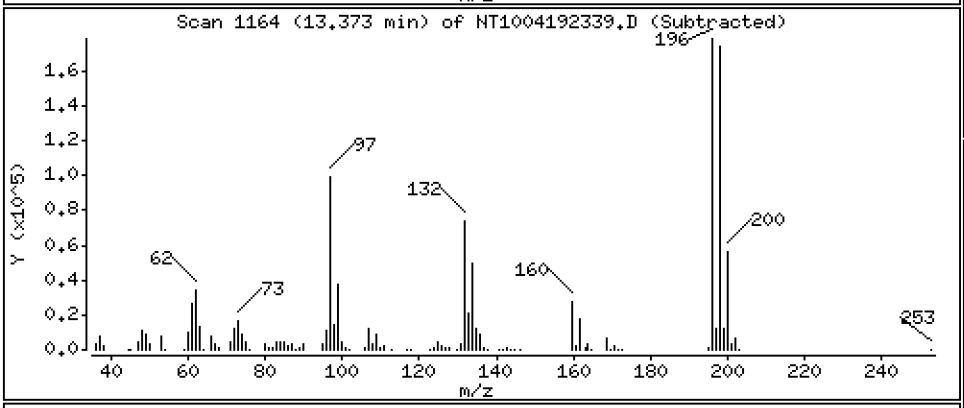
Column phase: ZB-5msi

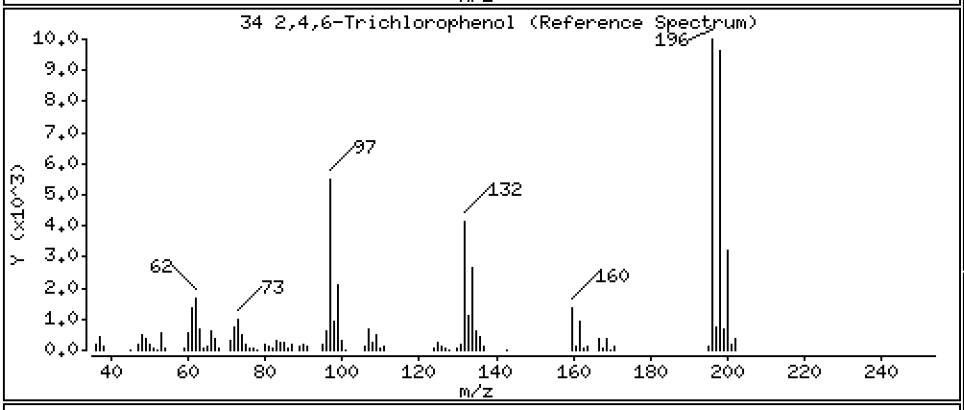
Column diameter: 0.25

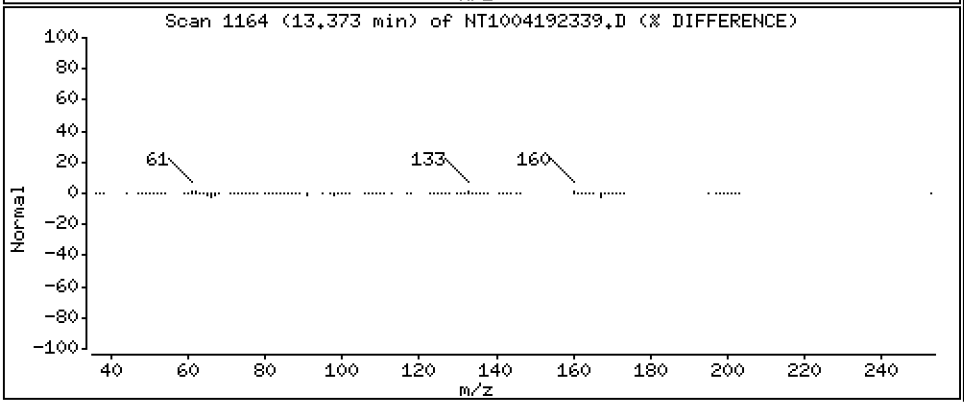
34 2,4,6-Trichlorophenol

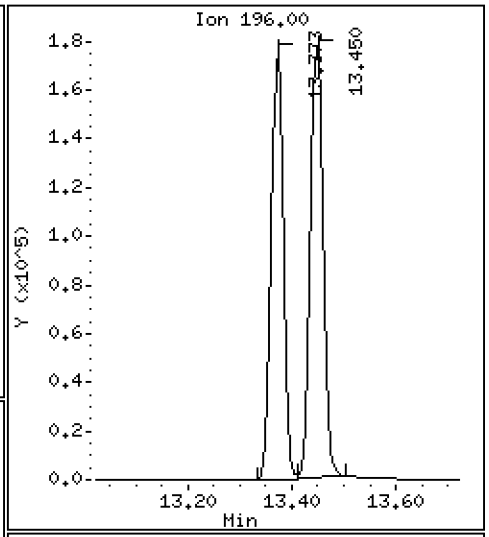
Concentration: 10.42 ug/mL

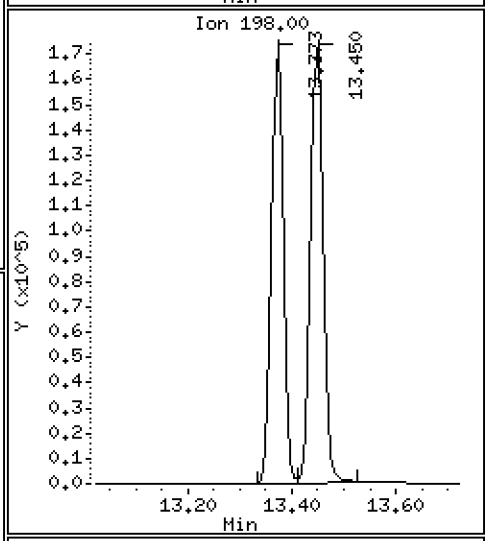


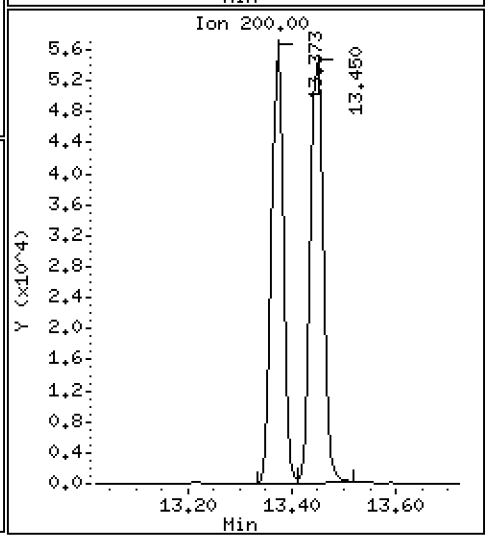












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192339.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

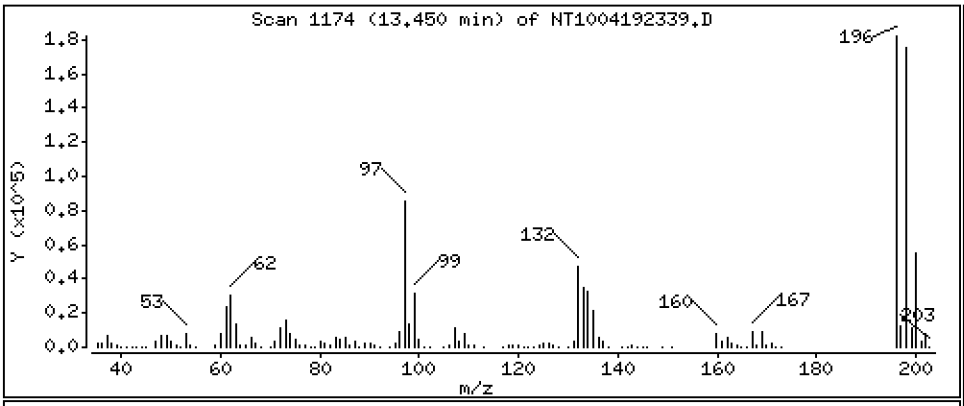
Operator: VTS

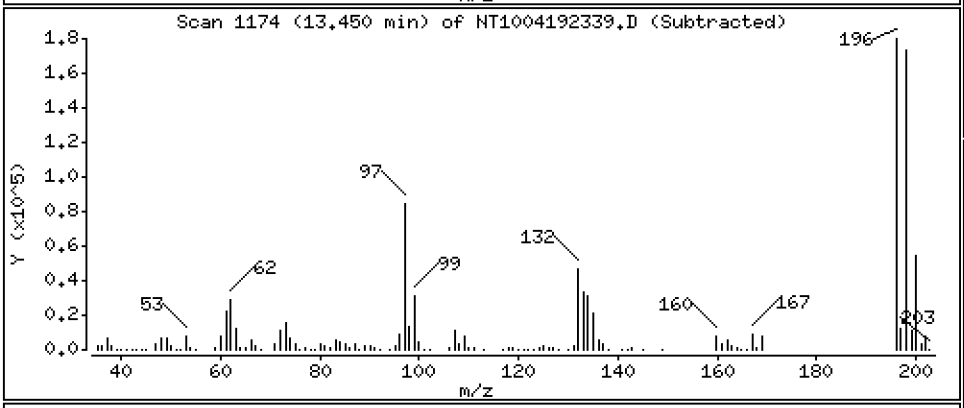
Column phase: ZB-5msi

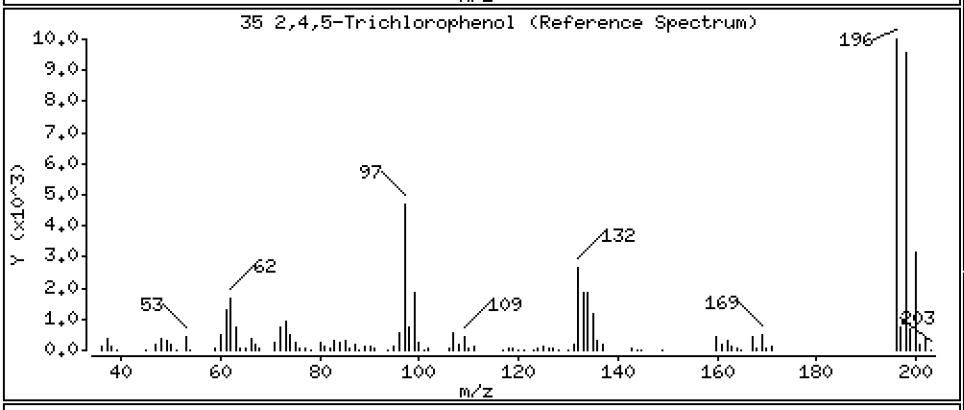
Column diameter: 0.25

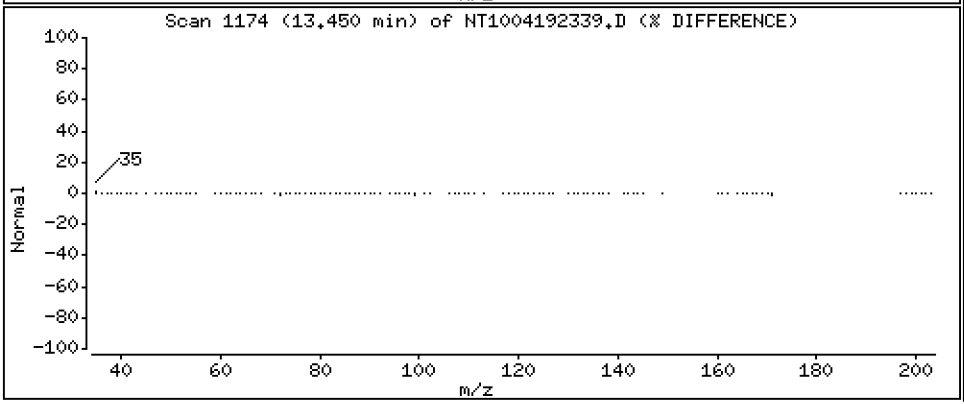
35 2,4,5-Trichlorophenol

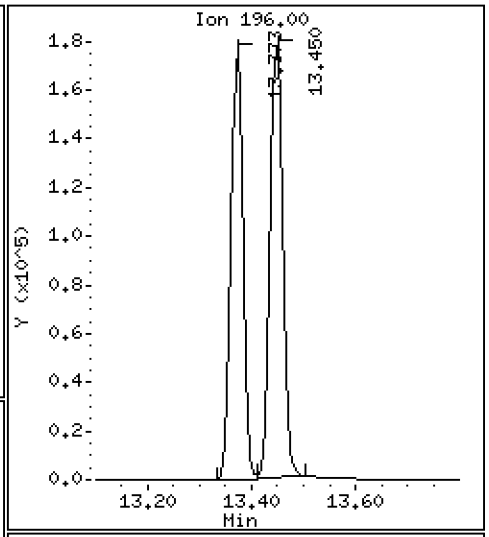
Concentration: 10.02 ug/mL

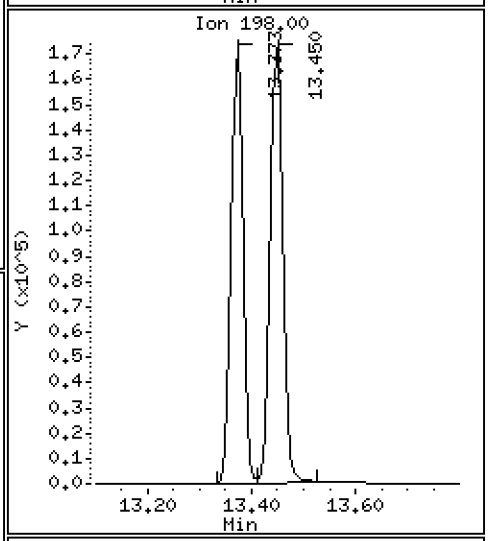


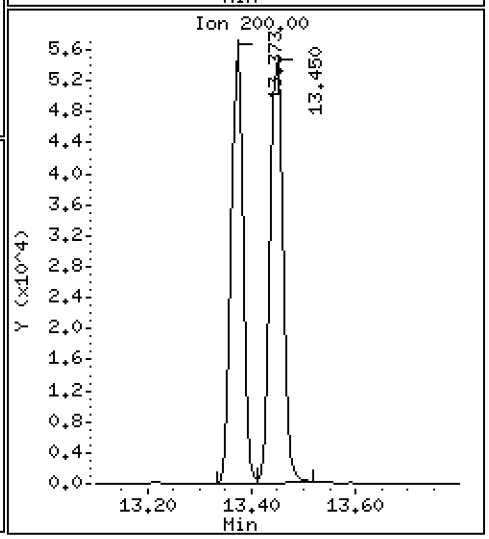












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192339.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

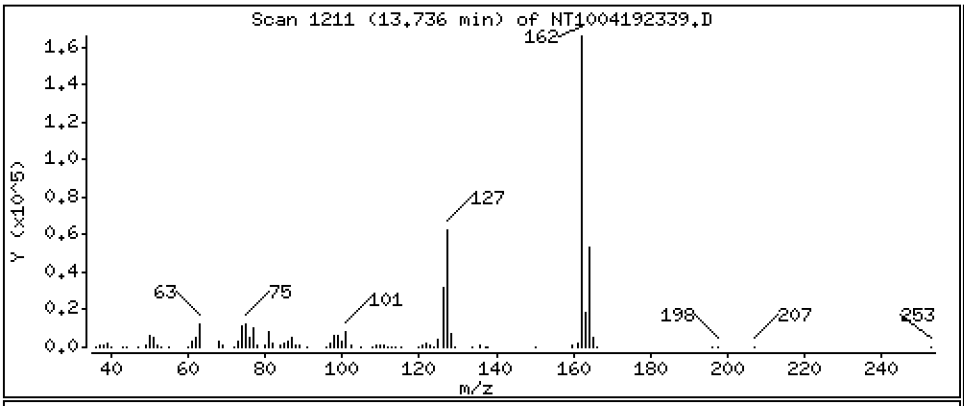
Operator: VTS

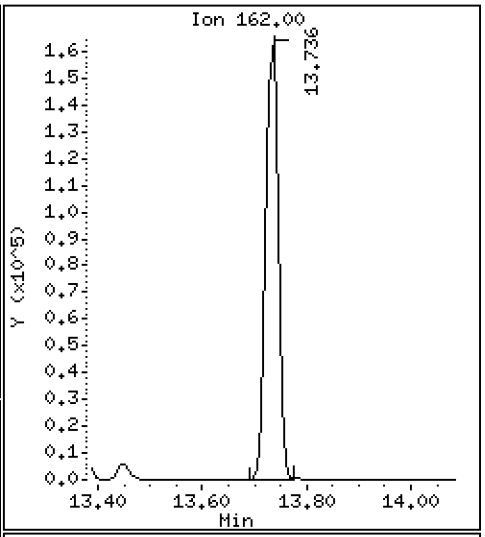
Column phase: ZB-5msi

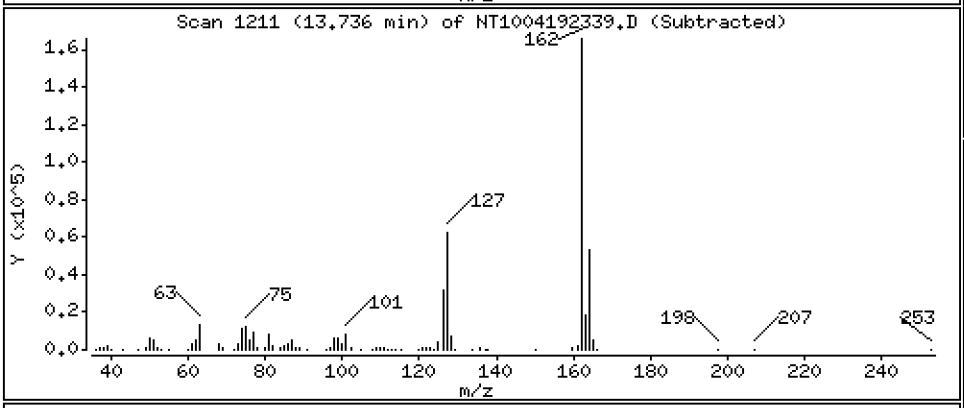
Column diameter: 0.25

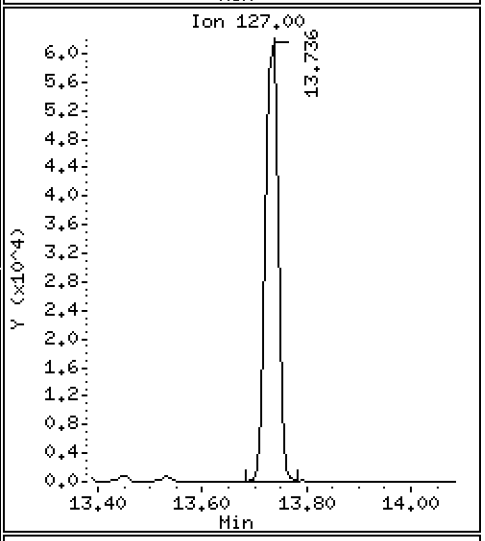
37 2-Chloronaphthalene

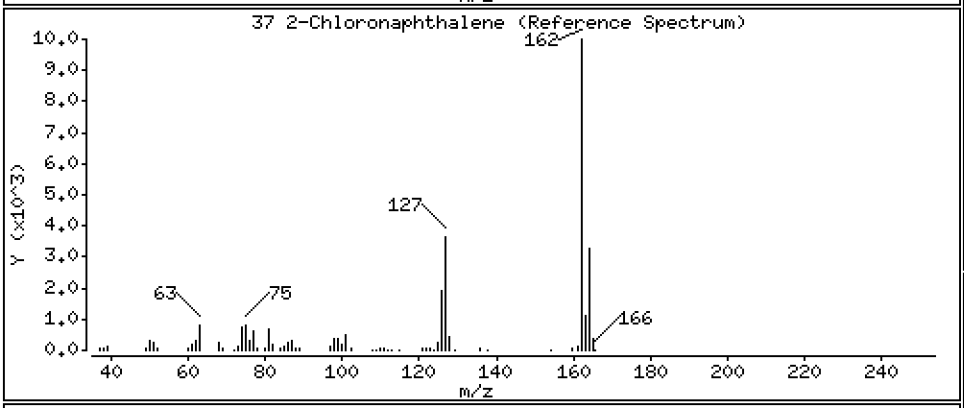
Concentration: 3.108 ug/mL

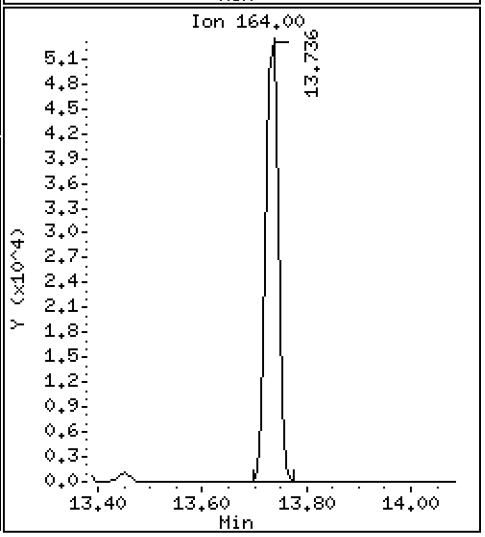


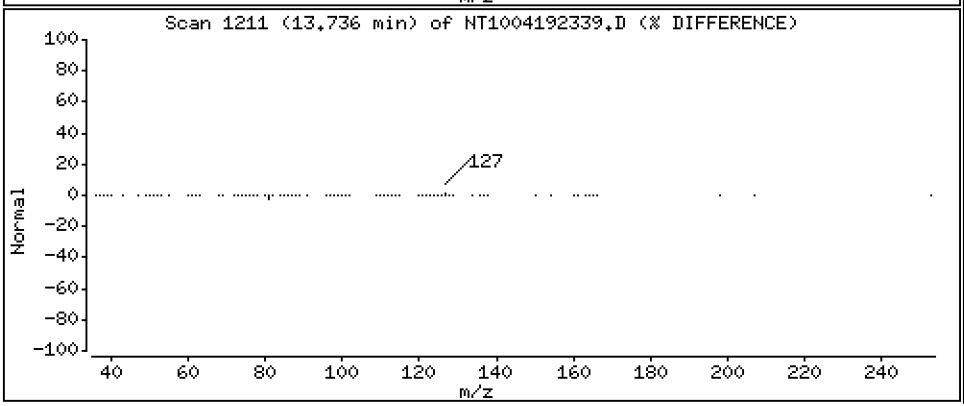












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192339.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

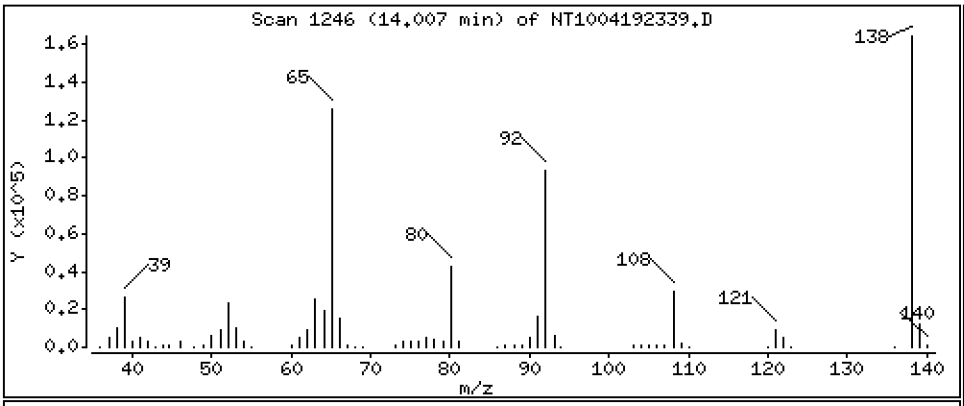
Operator: VTS

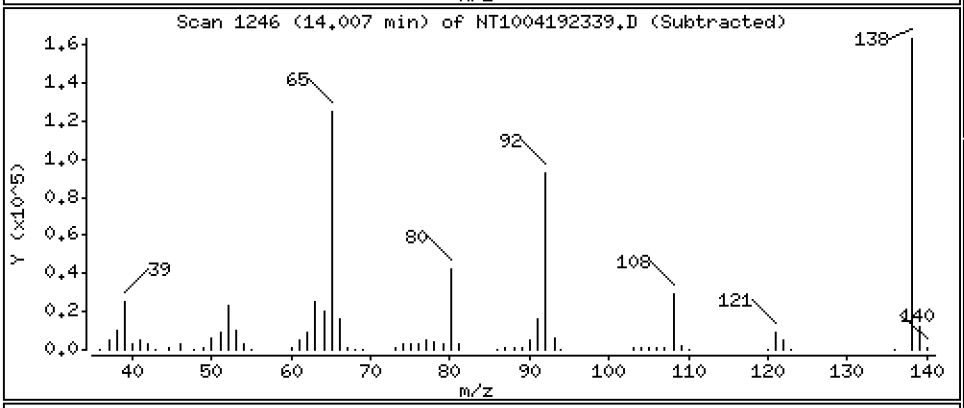
Column phase: ZB-5msi

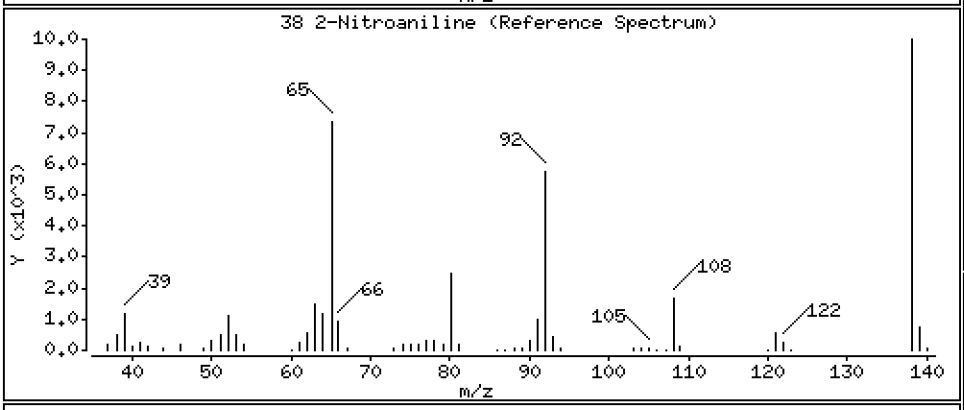
Column diameter: 0.25

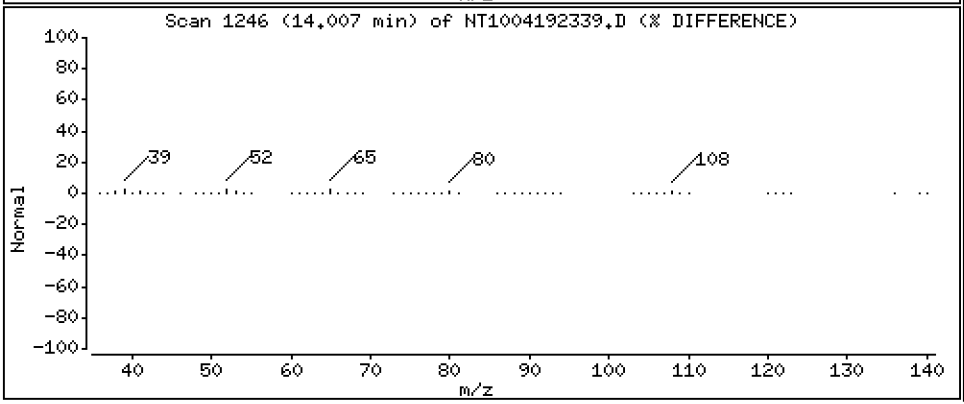
38 2-Nitroaniline

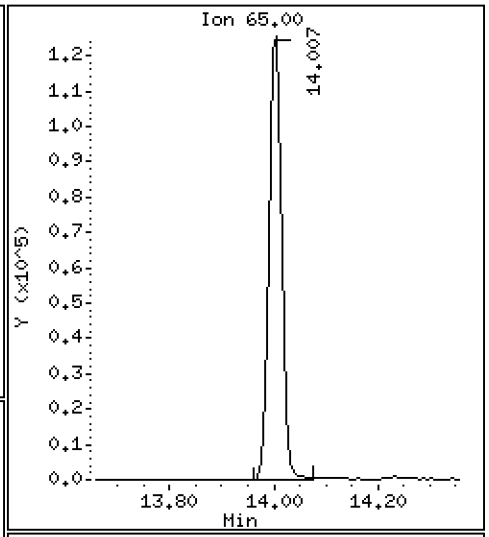
Concentration: 8.639 ug/mL

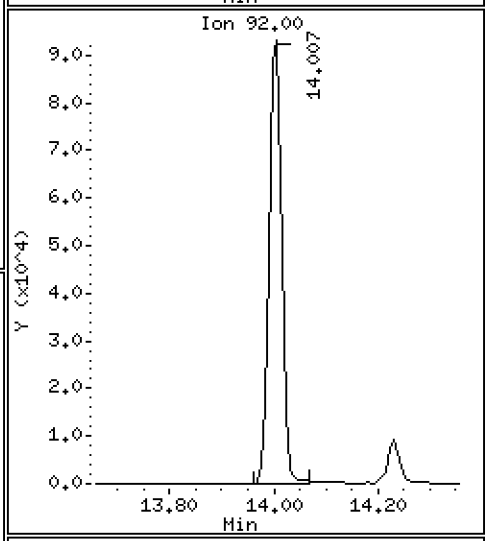


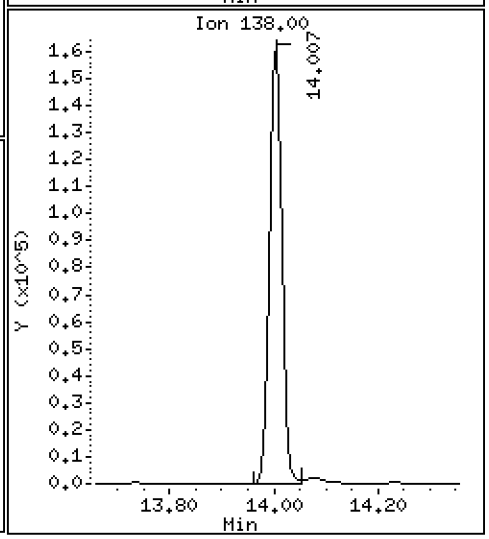












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

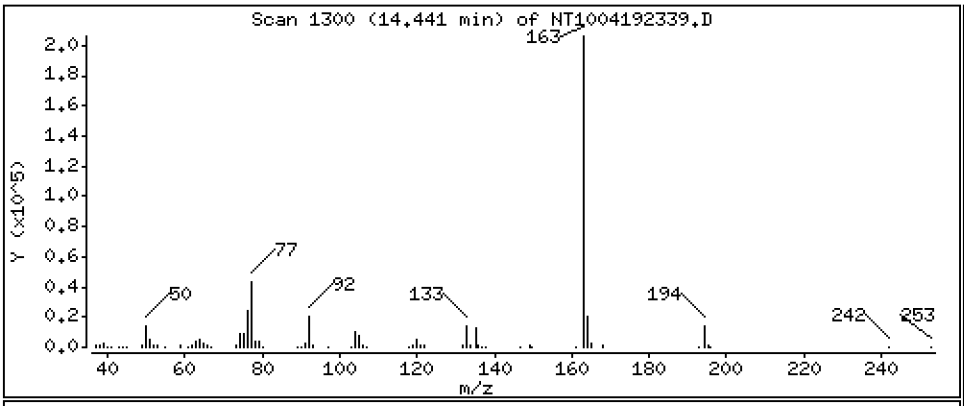
Operator: VTS

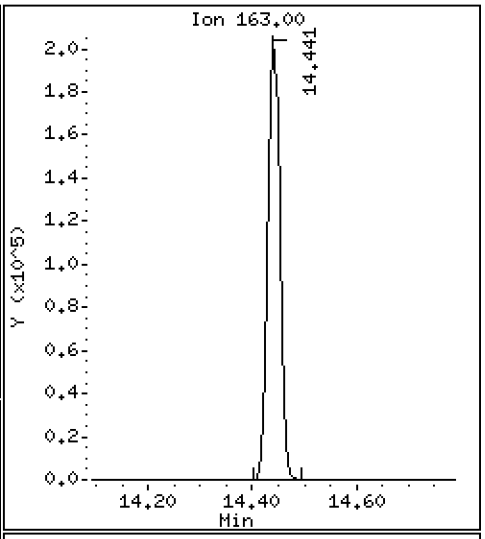
Column phase: ZB-5msi

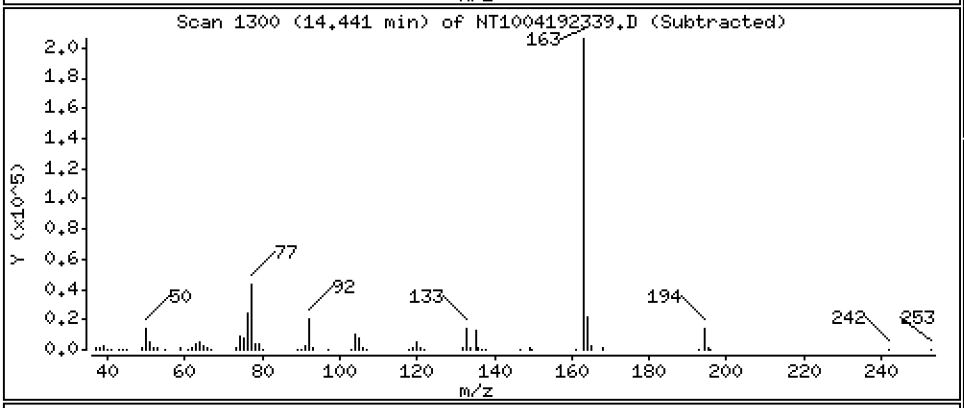
Column diameter: 0.25

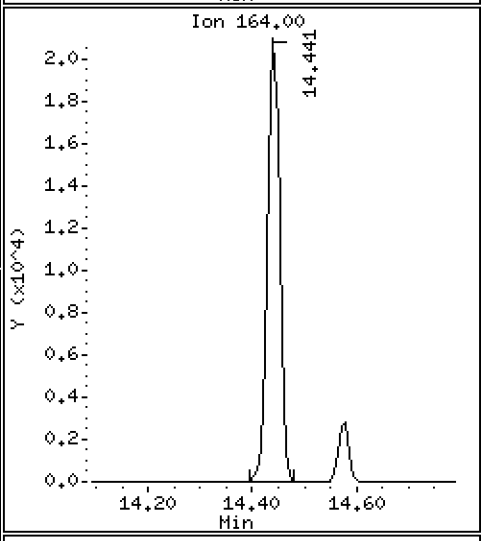
39 Dimethylphthalate

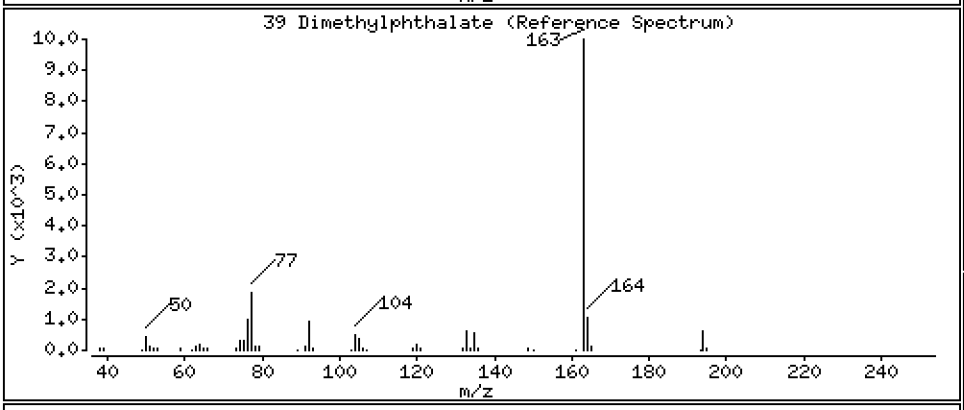
Concentration: 3.665 ug/mL

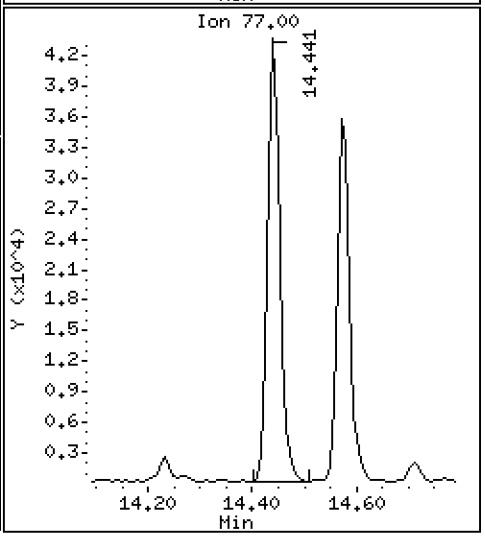


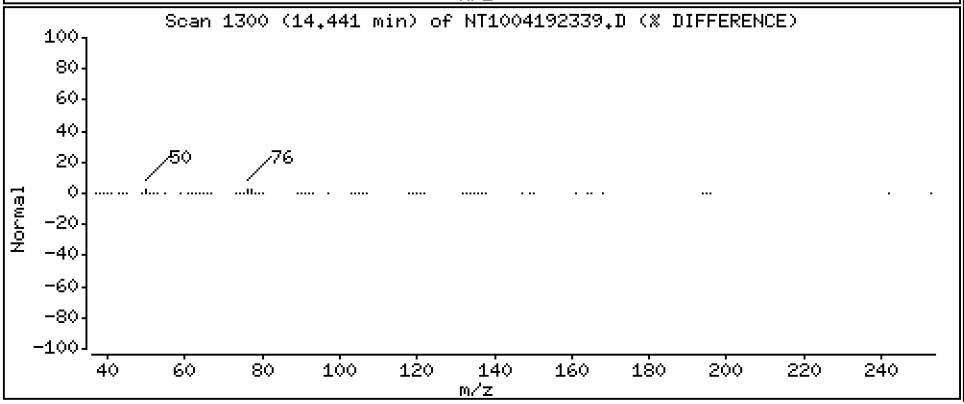












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192339.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

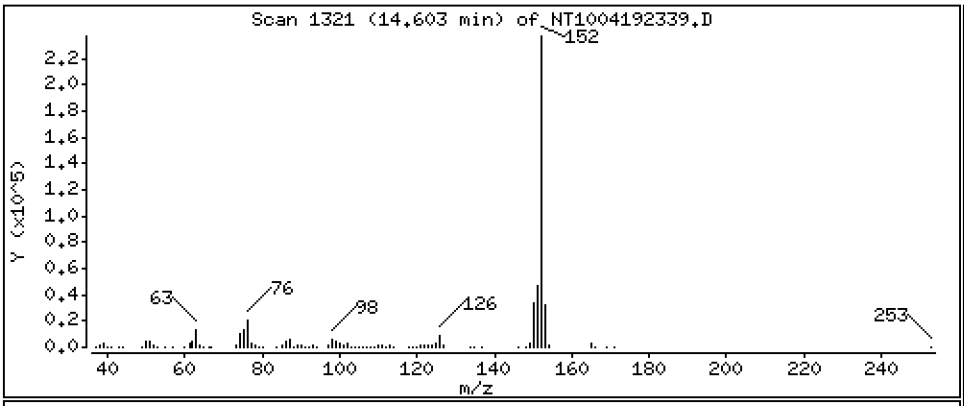
Operator: VTS

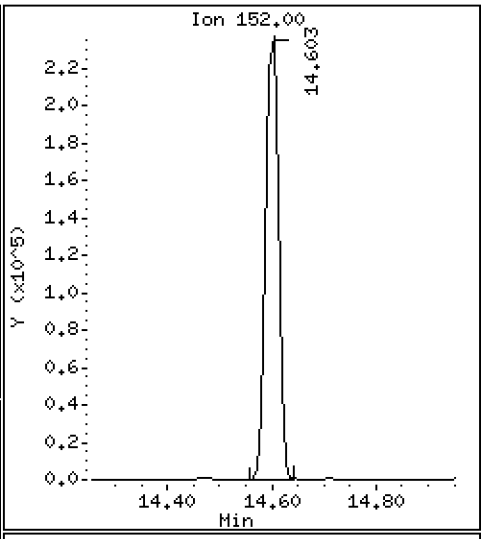
Column phase: ZB-5msi

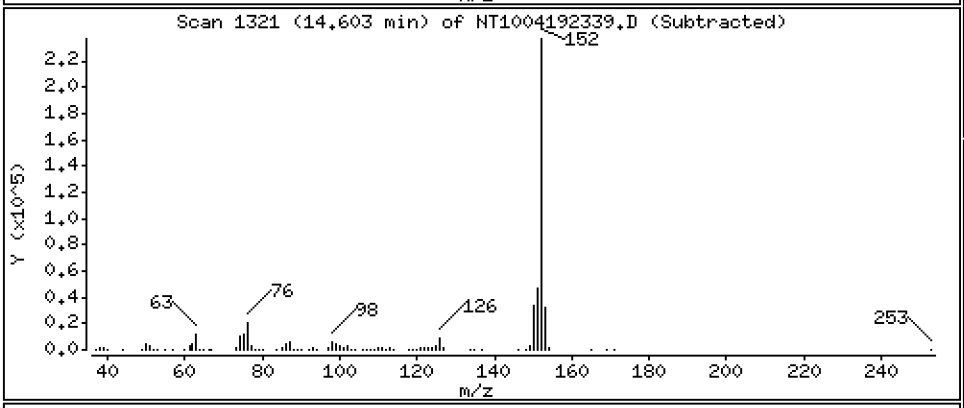
Column diameter: 0.25

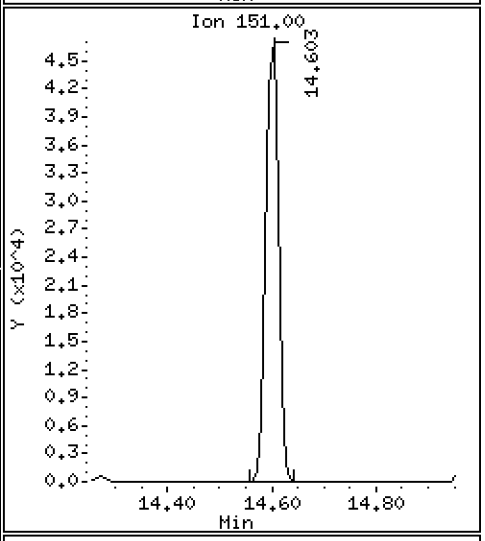
40 Acenaphthylene

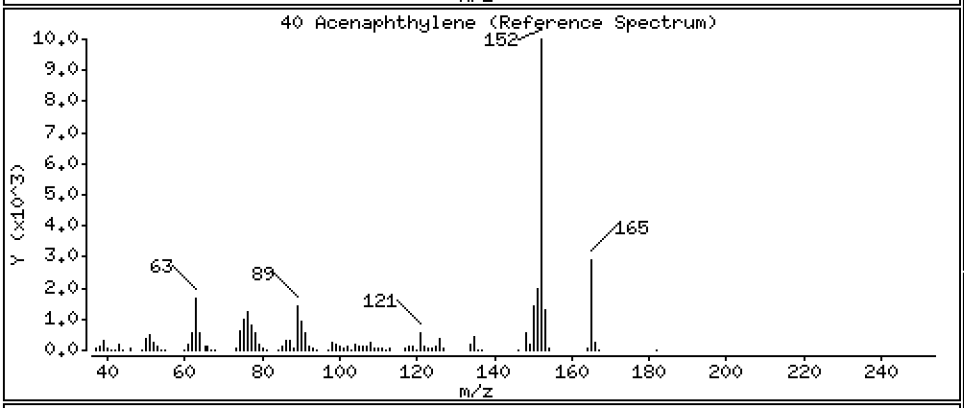
Concentration: 2.969 ug/mL

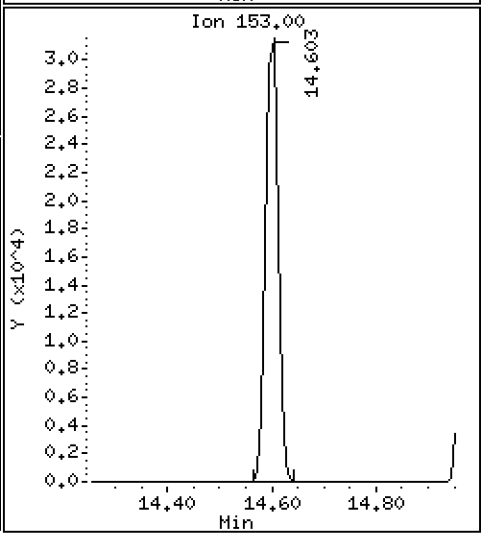


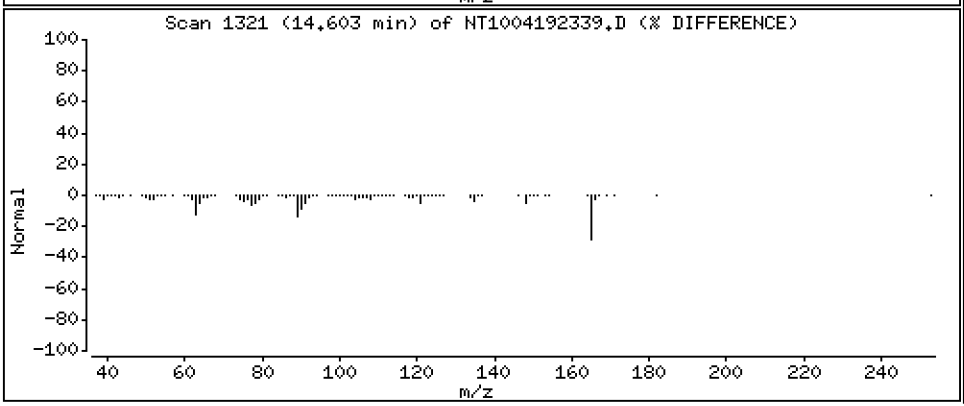












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

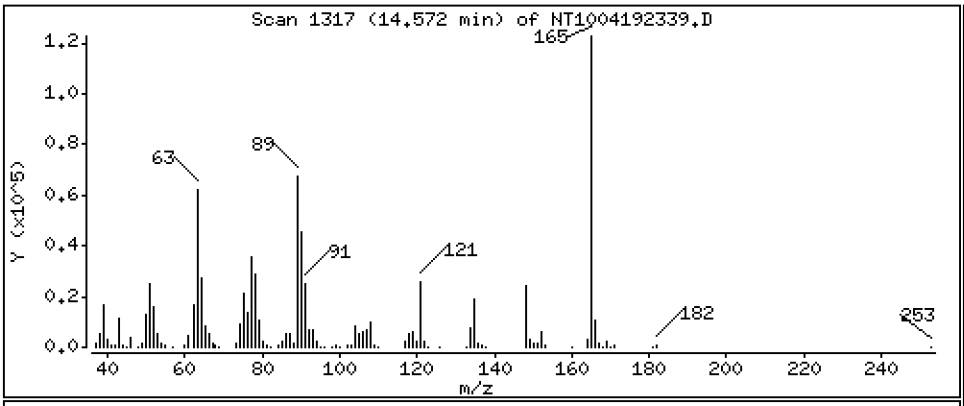
Operator: VTS

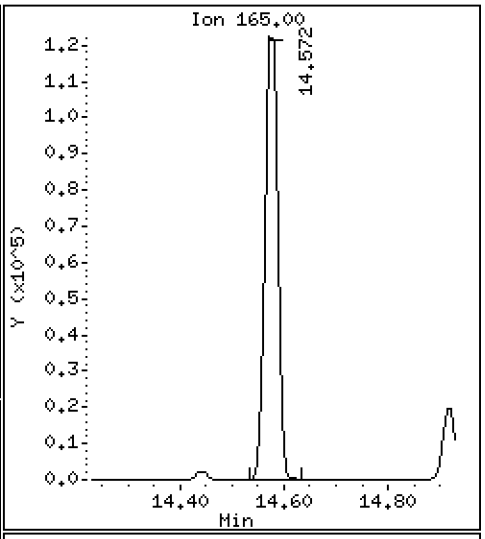
Column phase: ZB-5msi

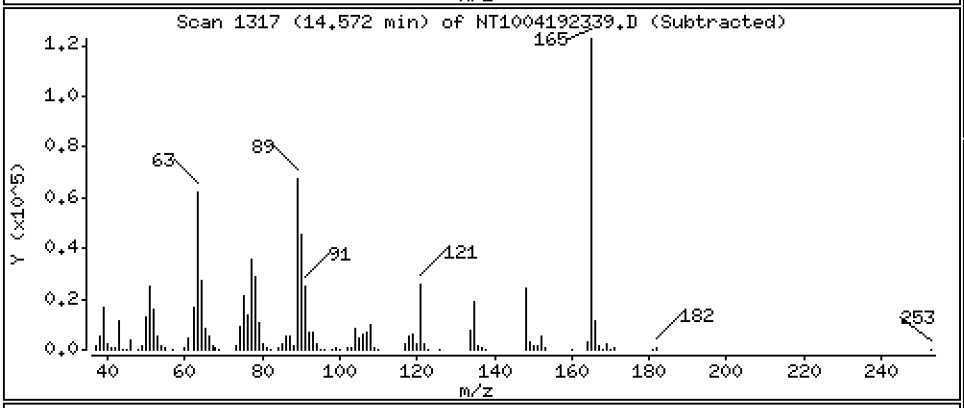
Column diameter: 0.25

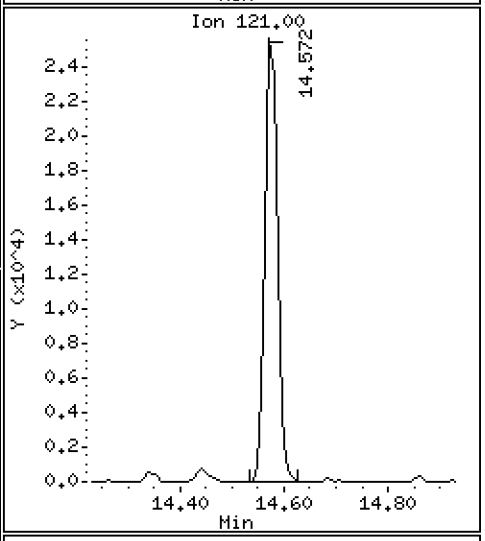
41 2,6-Dinitrotoluene

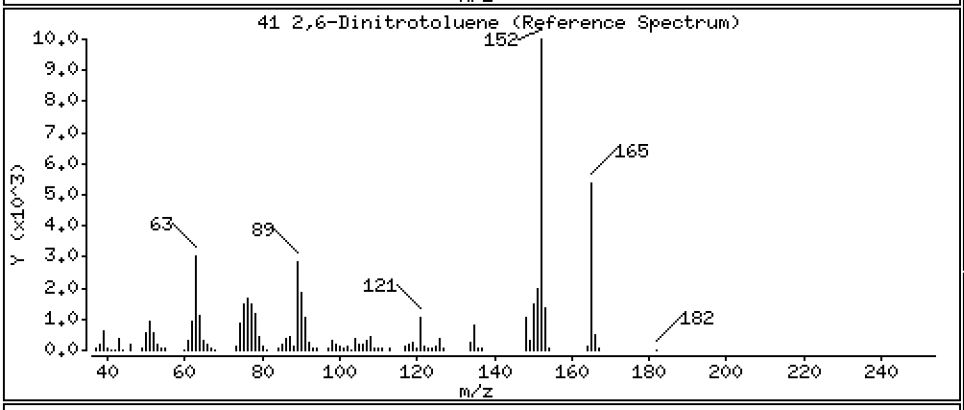
Concentration: 10.76 ug/mL

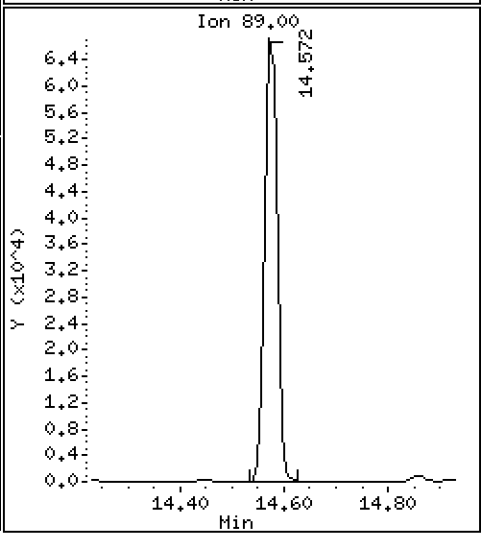


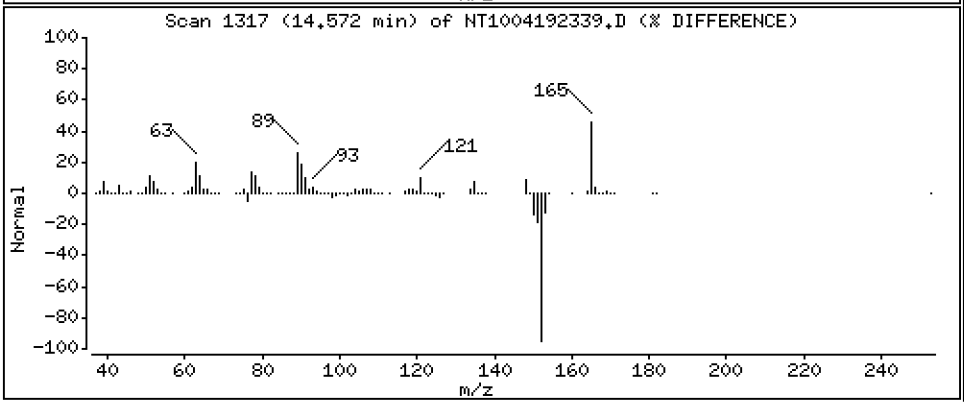












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

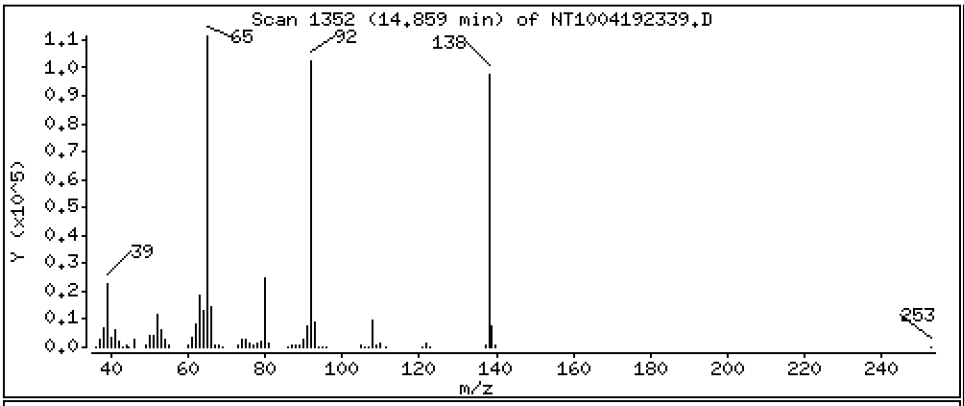
Operator: VTS

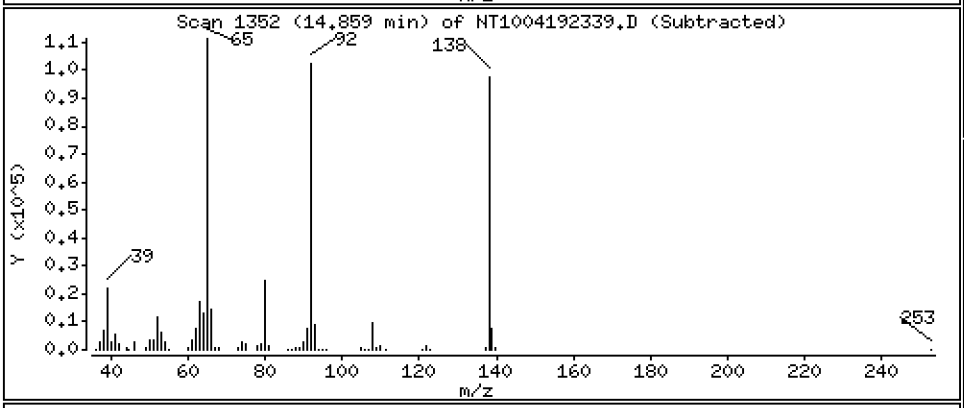
Column phase: ZB-5msi

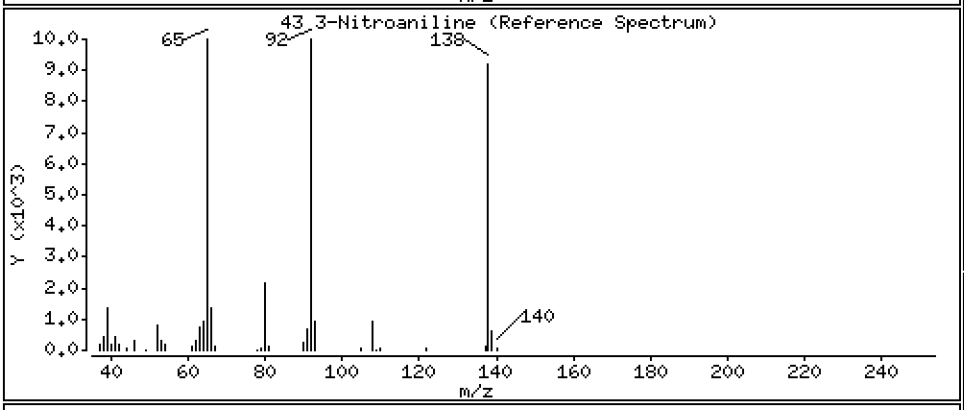
Column diameter: 0.25

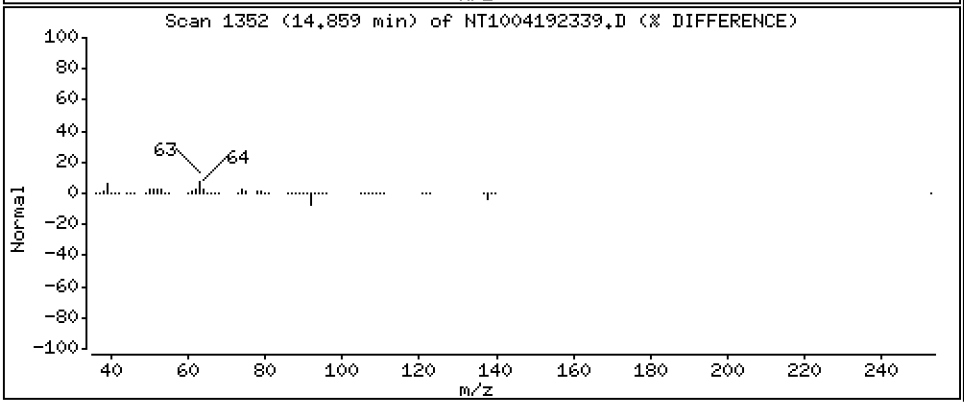
43 3-Nitroaniline

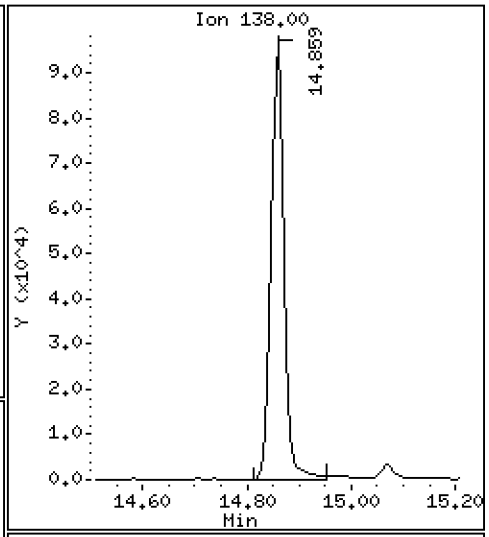
Concentration: 7.584 ug/mL

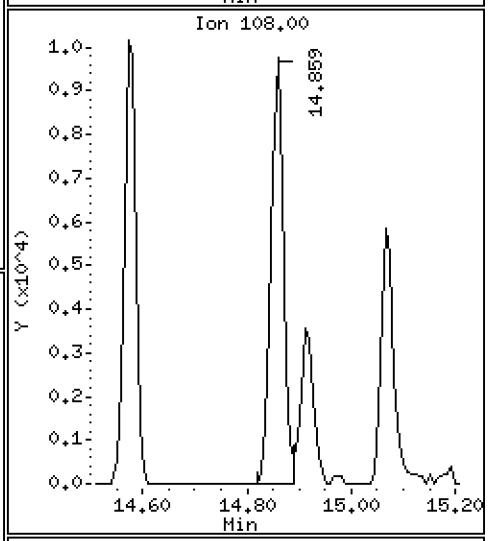


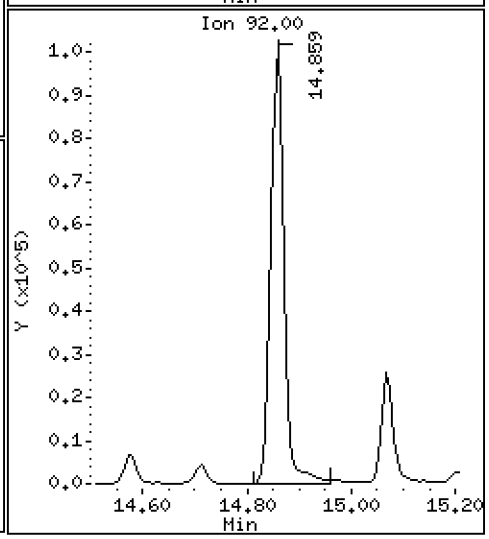












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

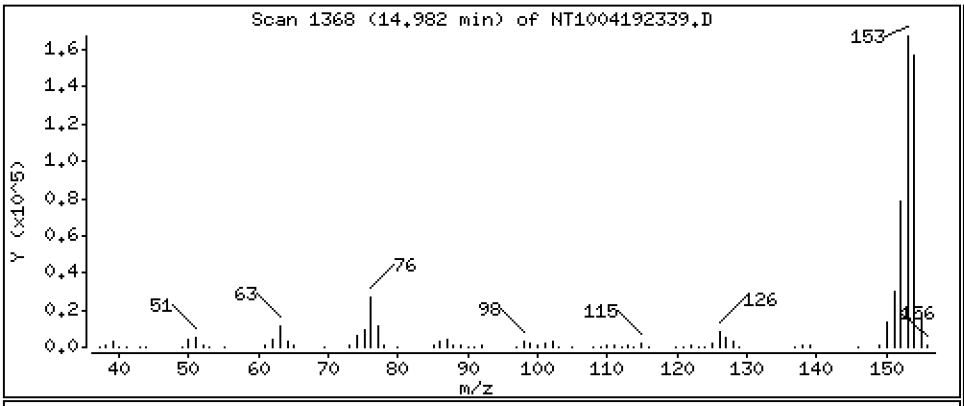
Operator: VTS

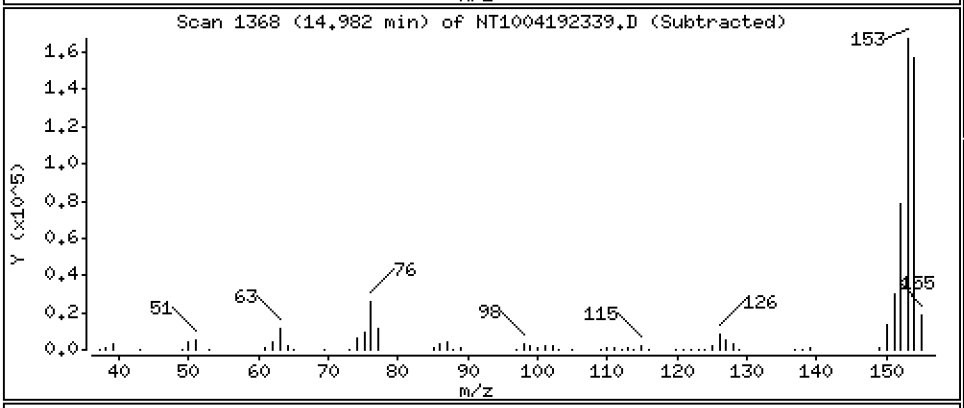
Column phase: ZB-5msi

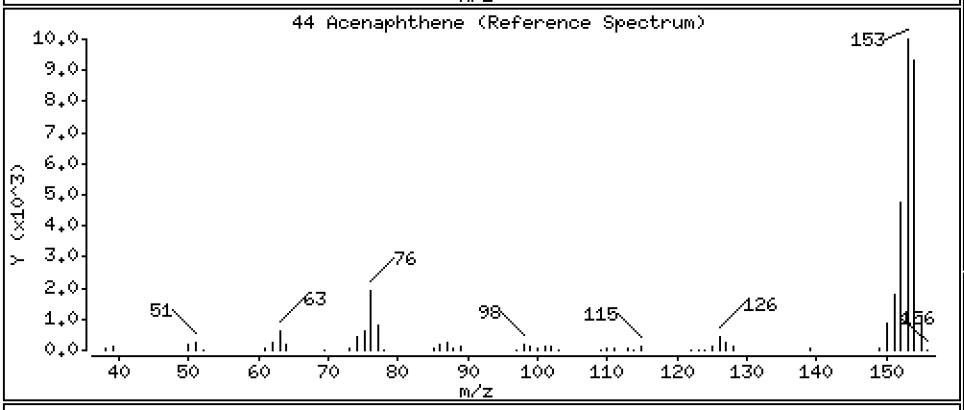
Column diameter: 0.25

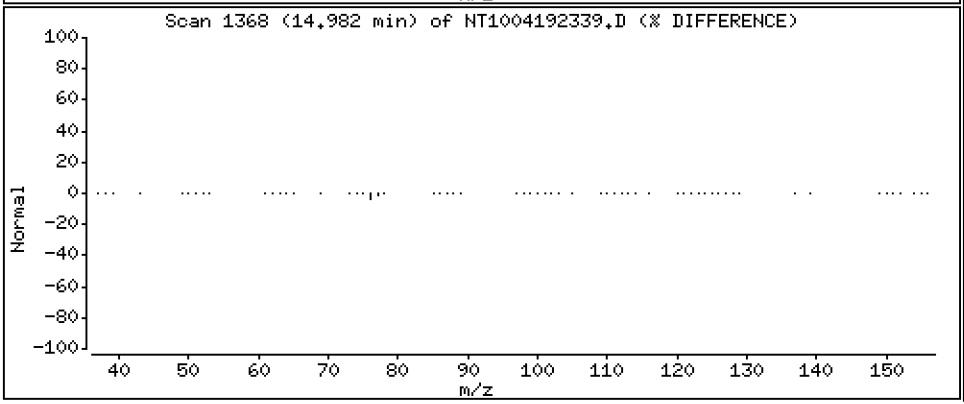
44 Acenaphthene

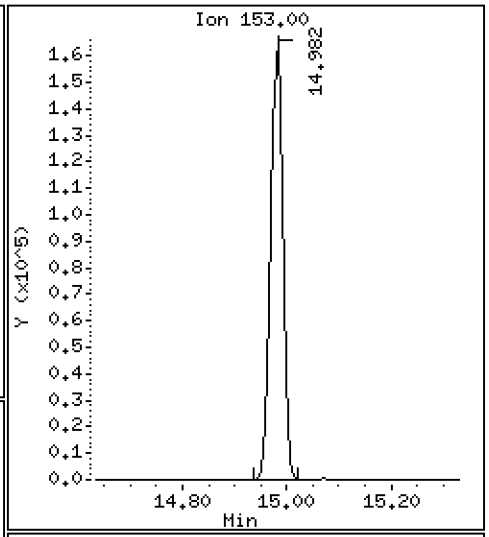
Concentration: 3.148 ug/mL

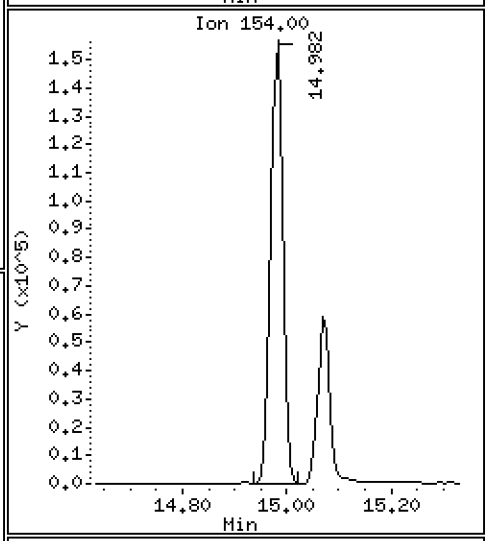


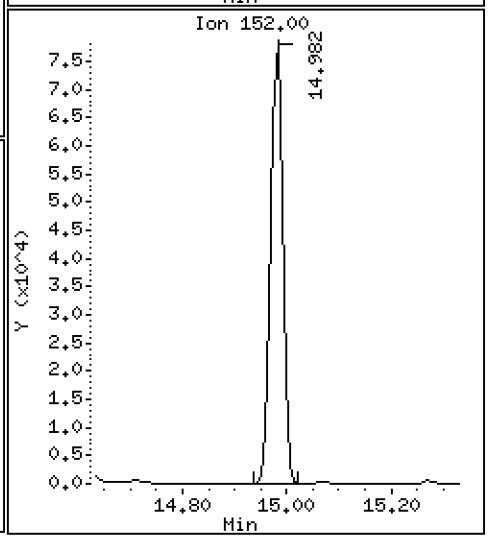












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

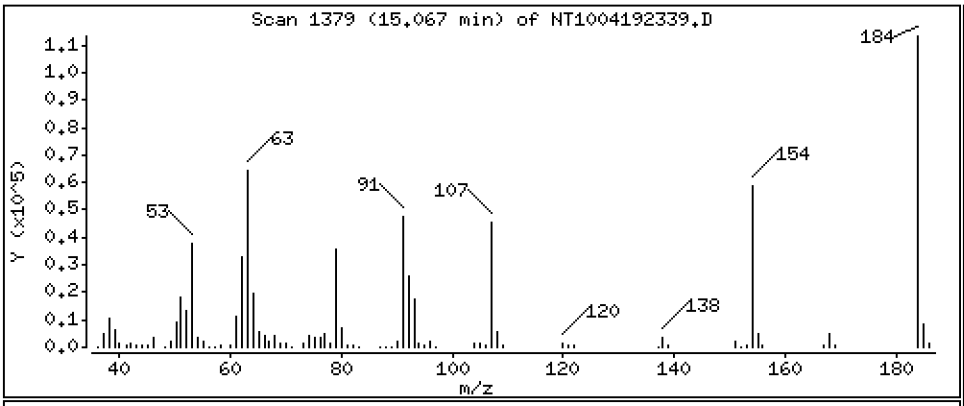
Operator: VTS

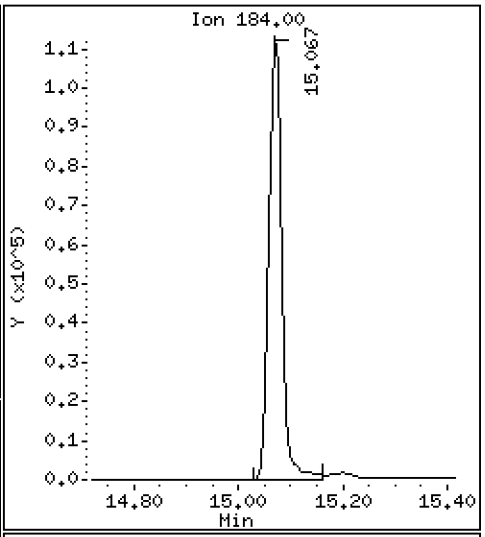
Column phase: ZB-5msi

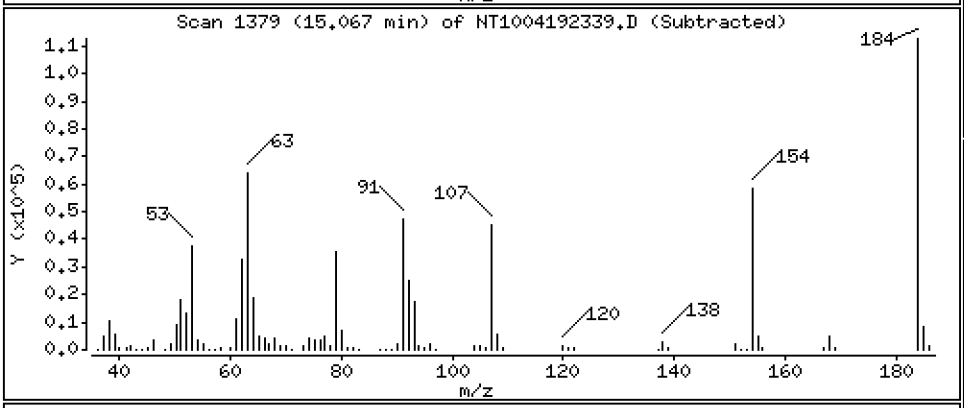
Column diameter: 0.25

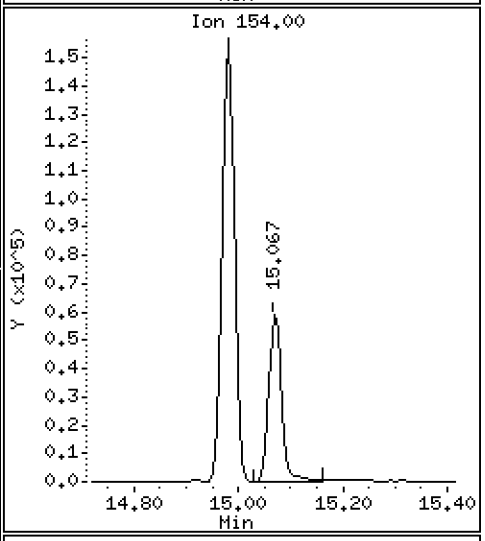
45 2,4-Dinitrophenol

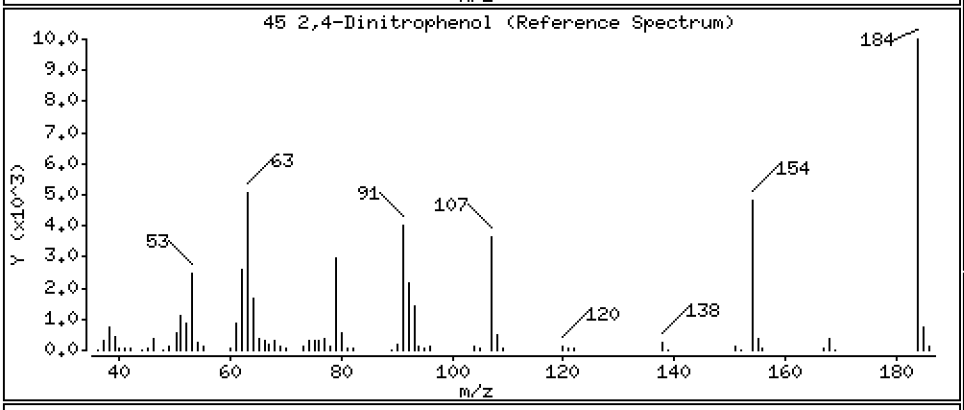
Concentration: 16.22 ug/mL

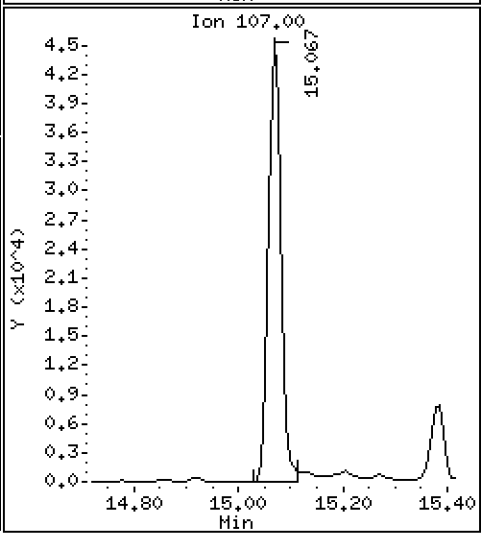


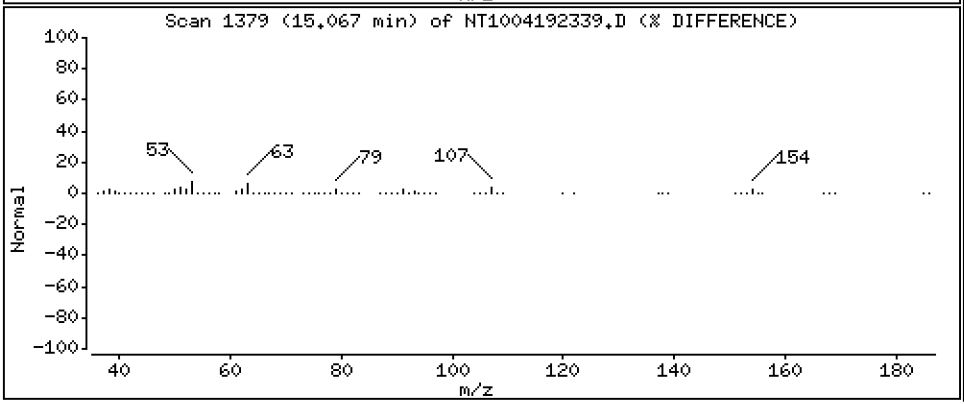












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192339.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

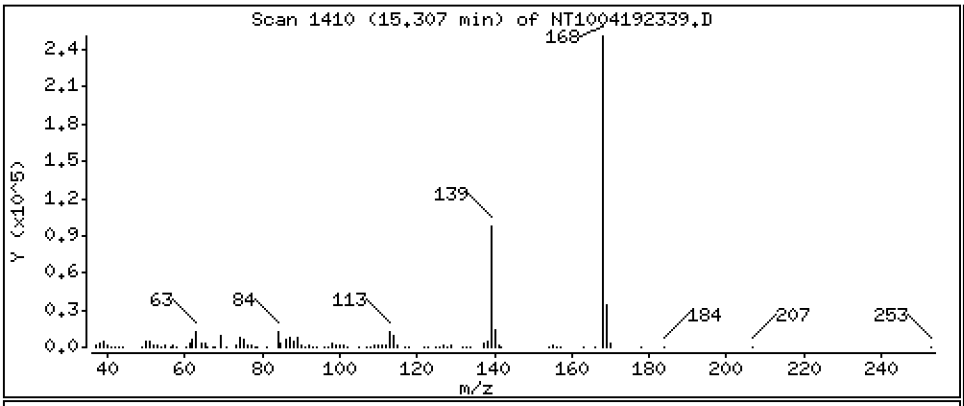
Operator: VTS

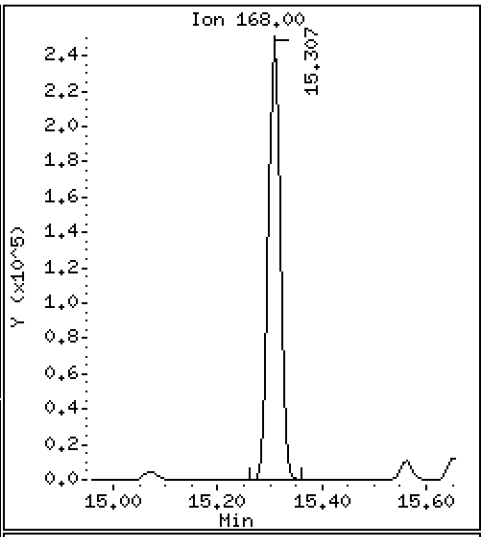
Column phase: ZB-5msi

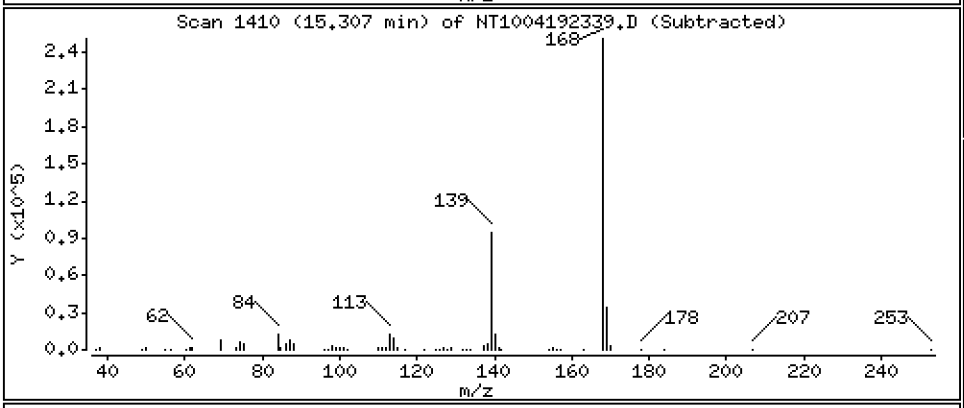
Column diameter: 0.25

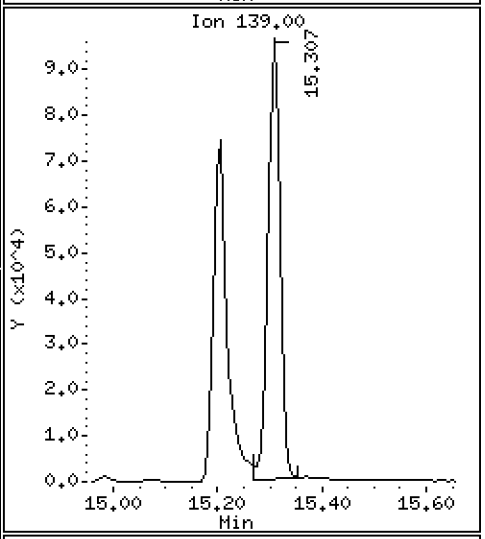
46 Dibenzofuran

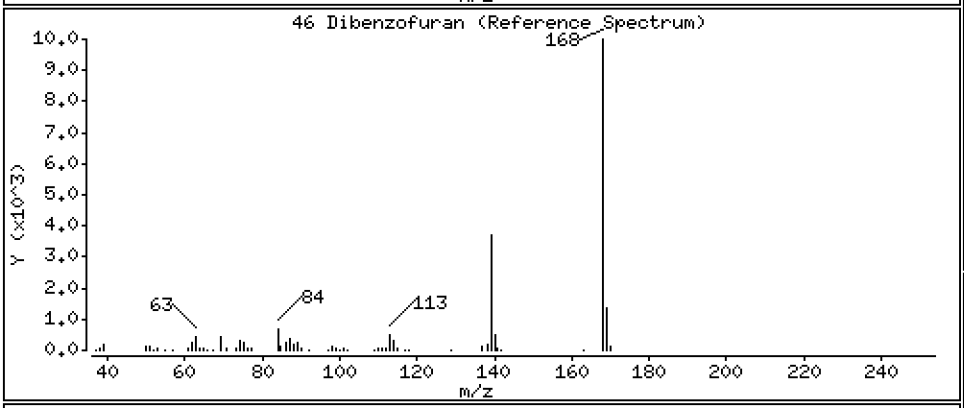
Concentration: 3.148 ug/mL

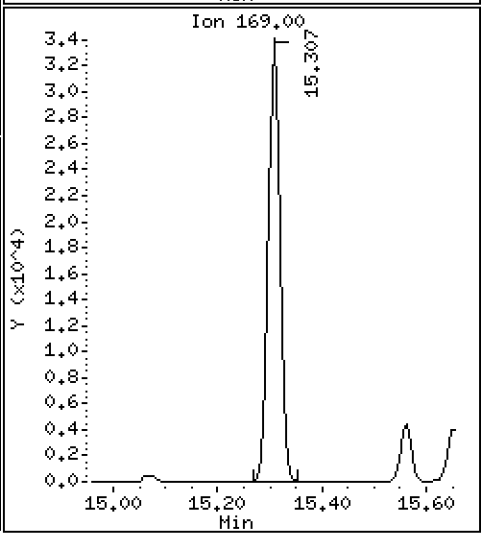


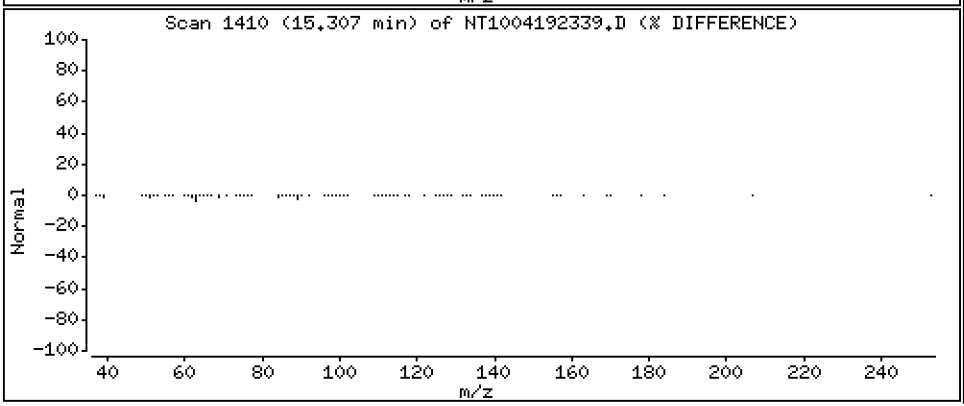












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

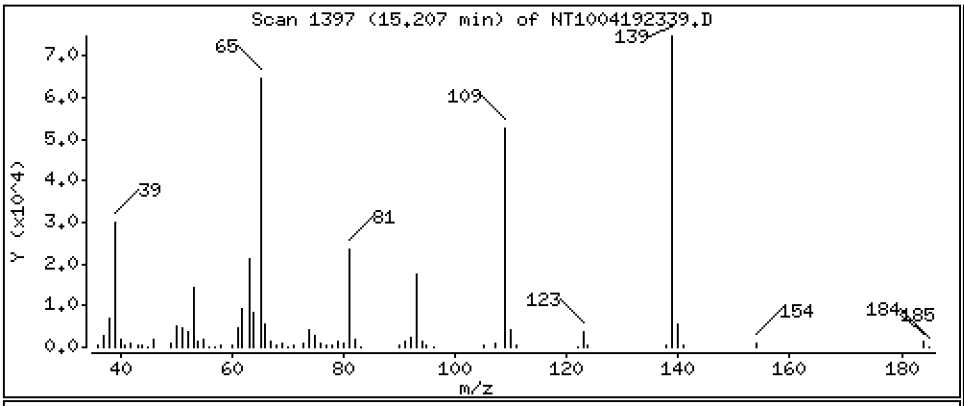
Operator: VTS

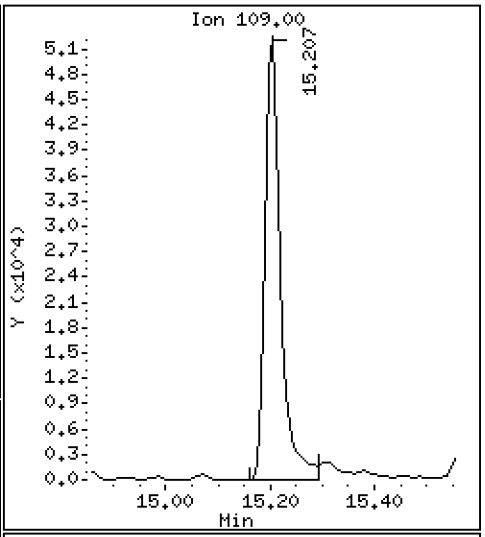
Column phase: ZB-5msi

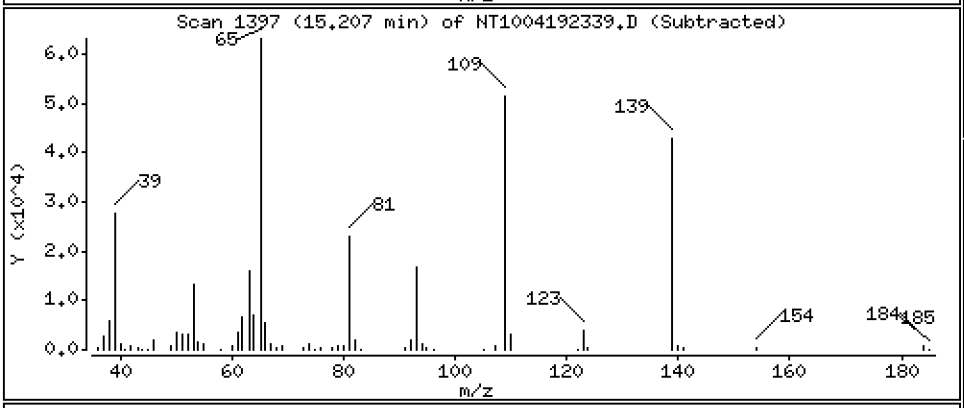
Column diameter: 0.25

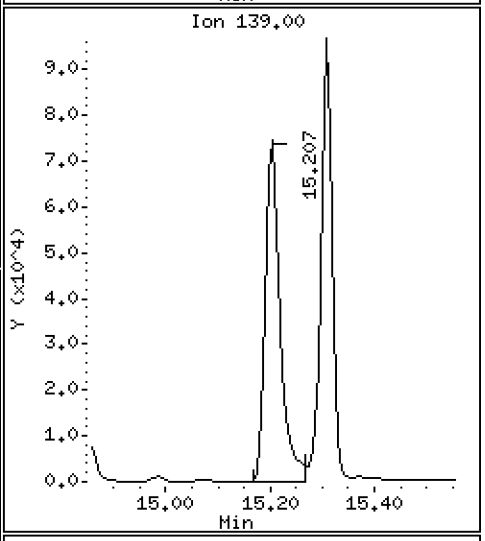
47 4-Nitrophenol

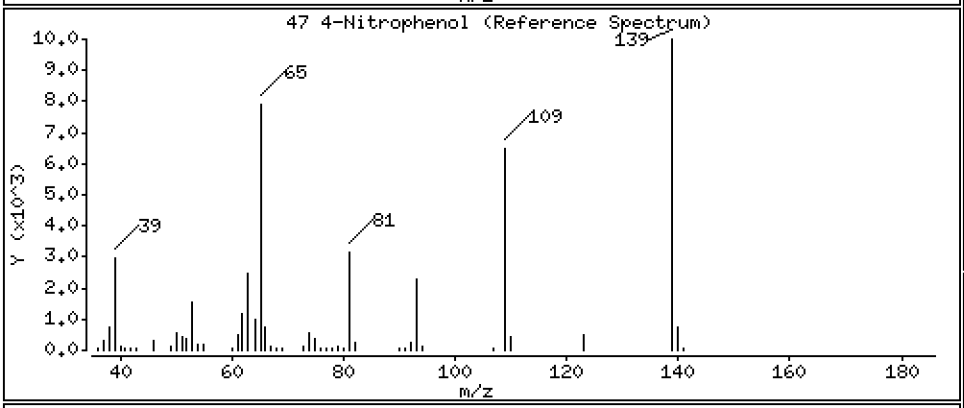
Concentration: 8.117 ug/mL

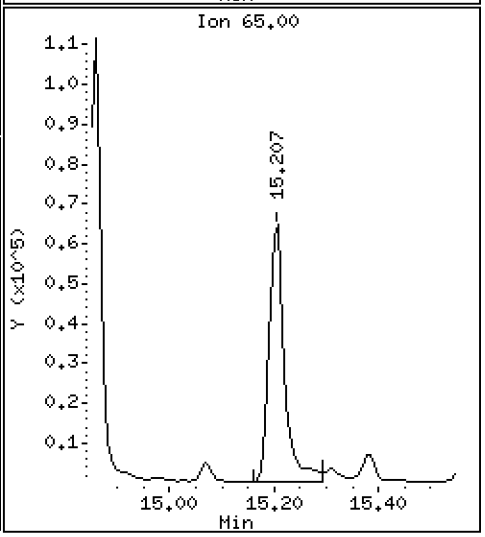


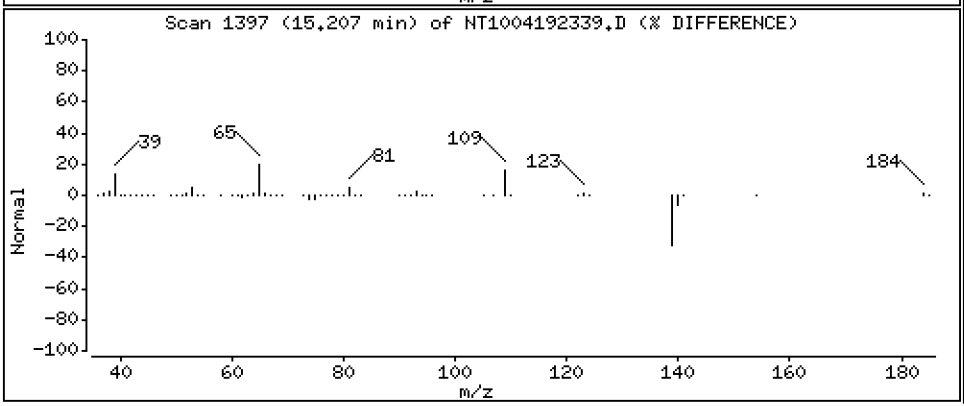












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192339.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

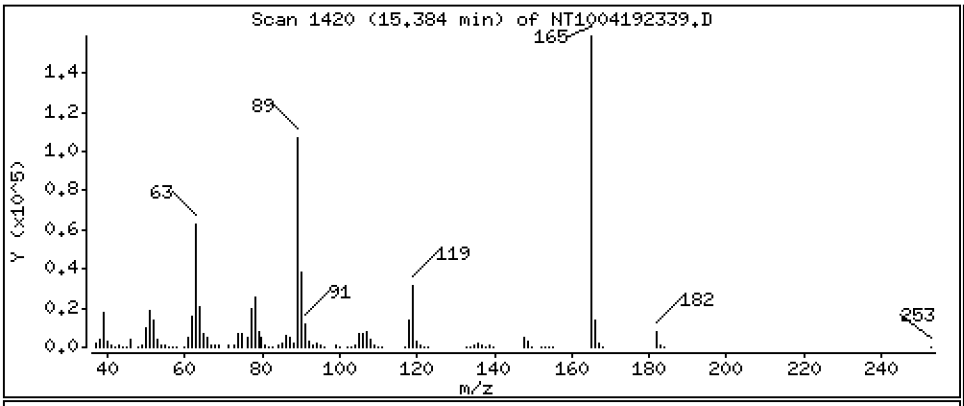
Operator: VTS

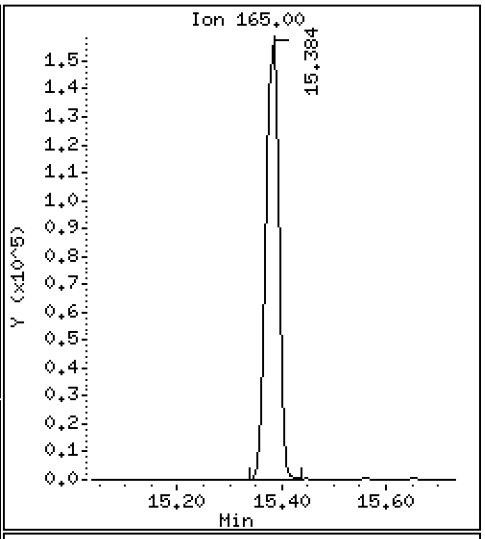
Column phase: ZB-5msi

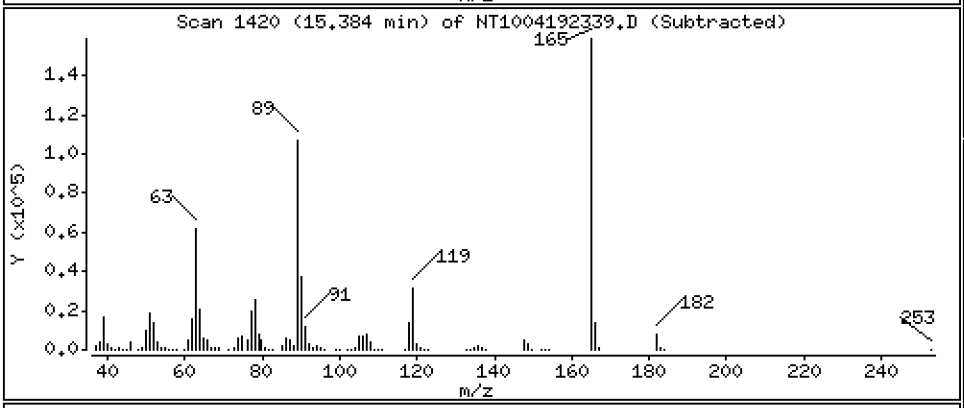
Column diameter: 0.25

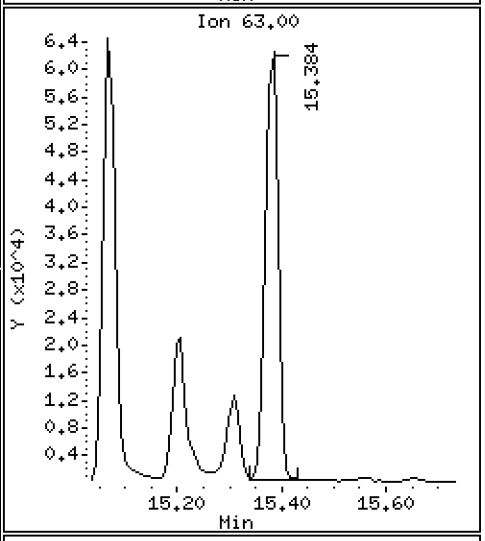
48 2,4-Dinitrotoluene

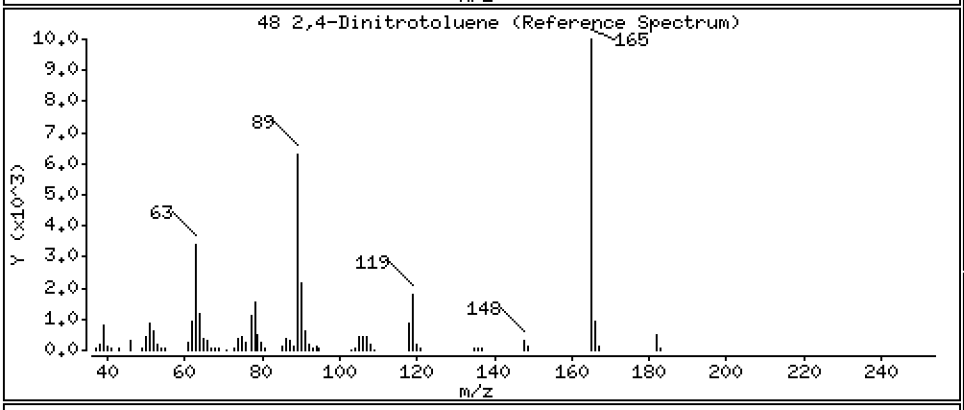
Concentration: 9.435 ug/mL

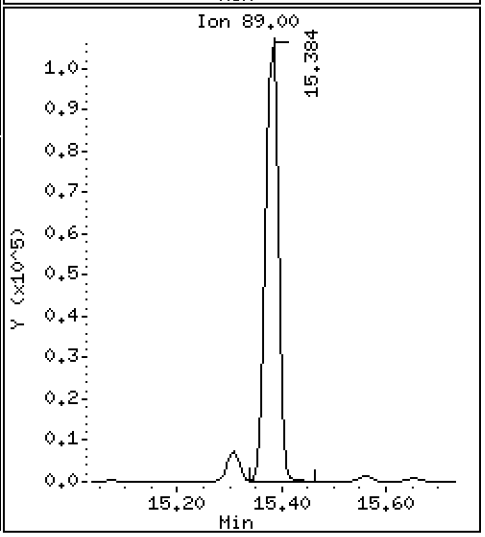


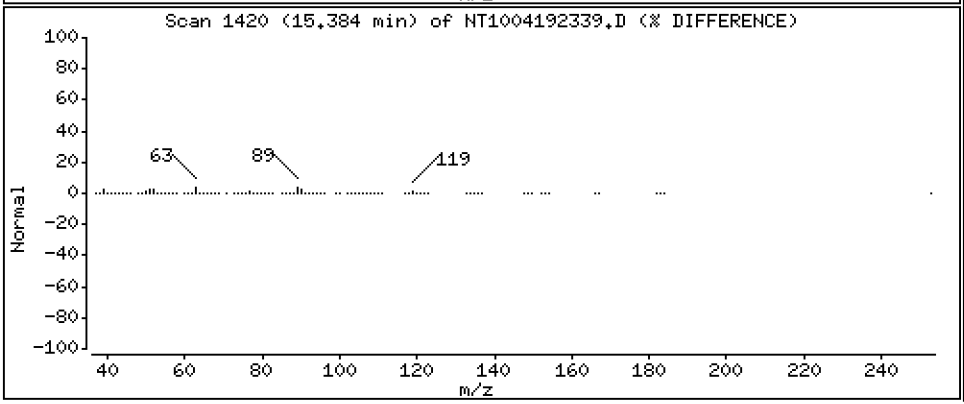












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

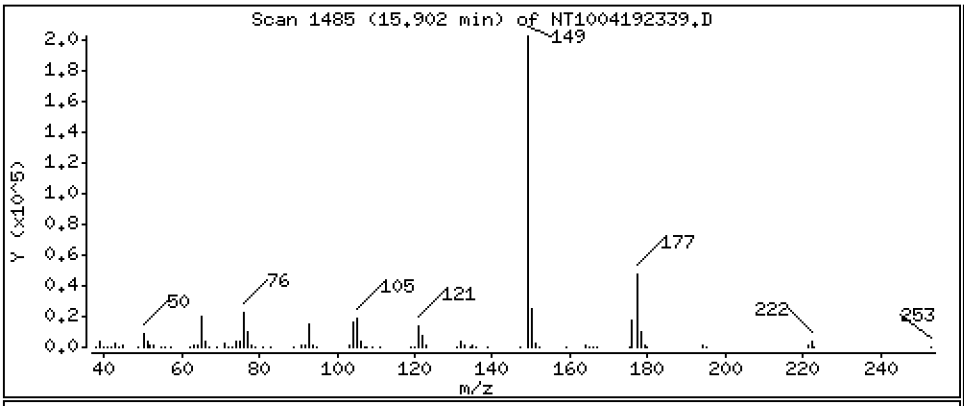
Operator: VTS

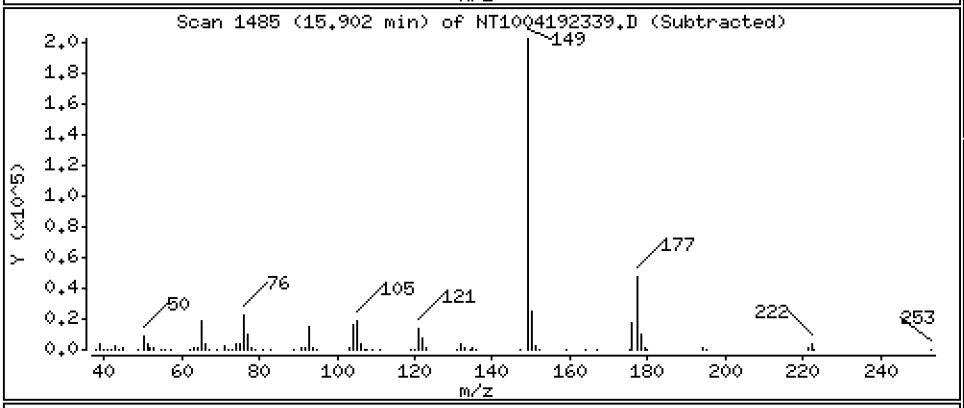
Column phase: ZB-5msi

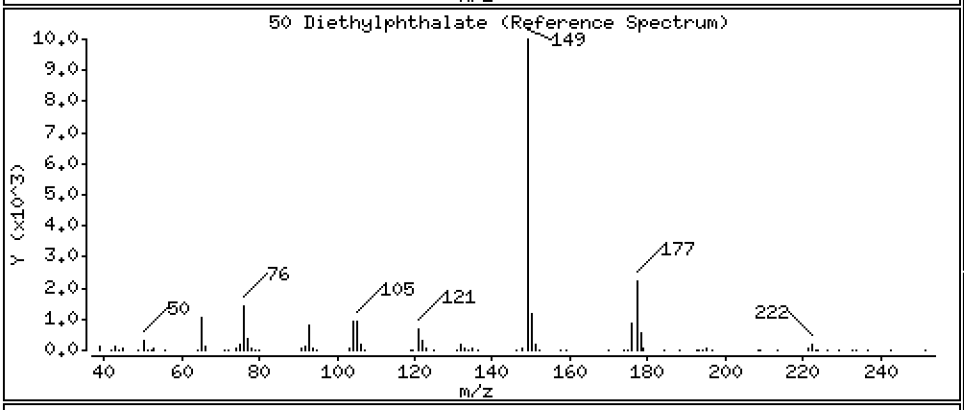
Column diameter: 0.25

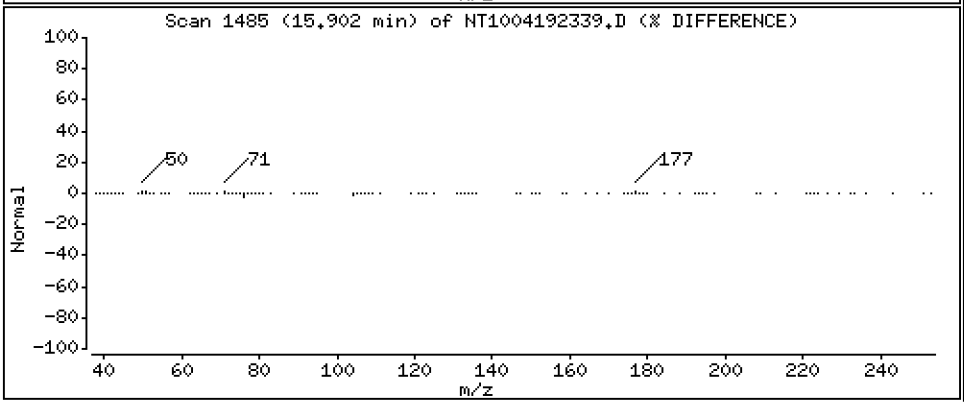
50 Diethylphthalate

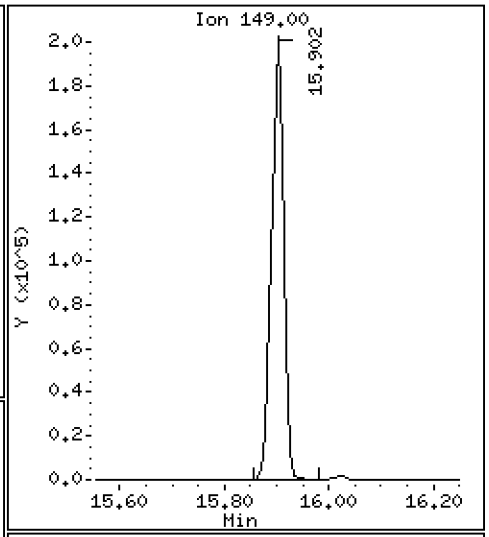
Concentration: 4.371 ug/mL

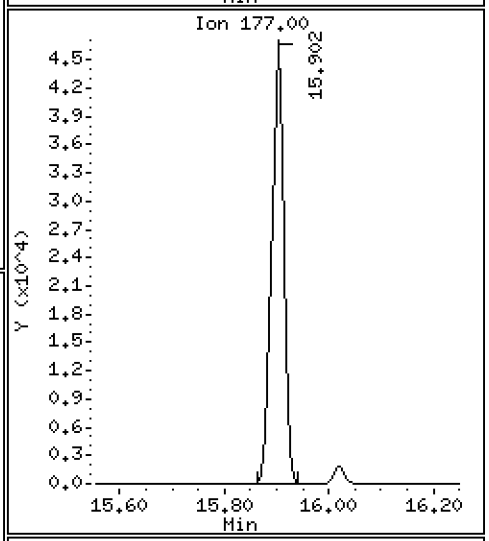


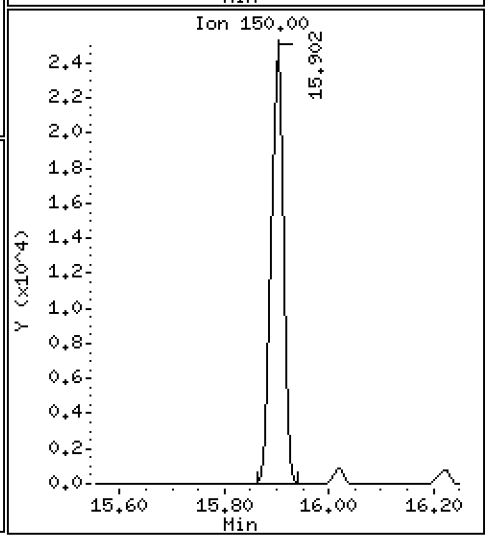












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

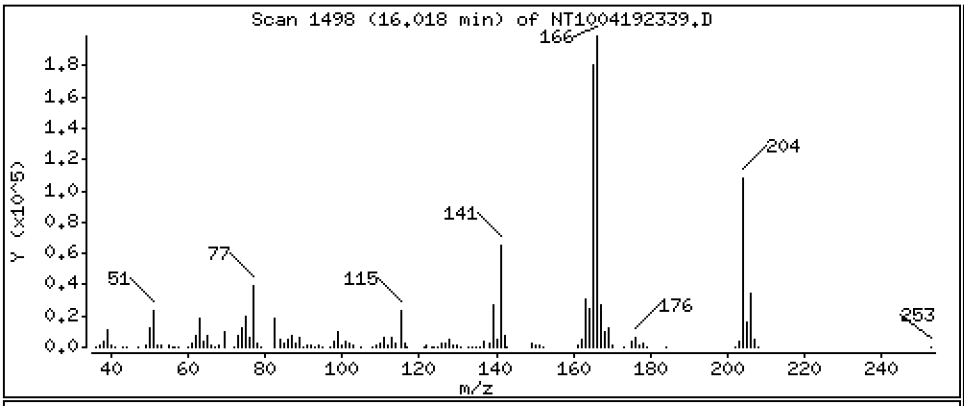
Operator: VTS

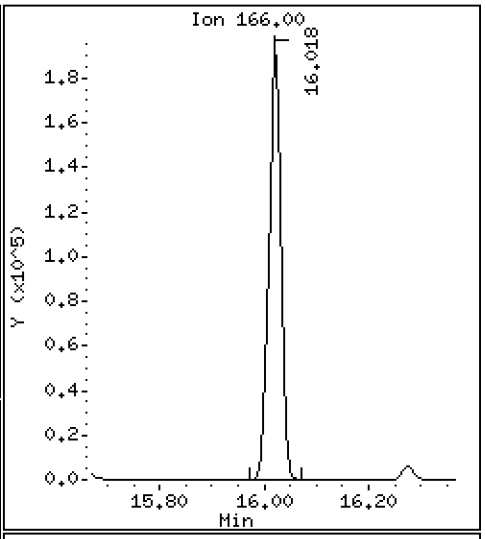
Column phase: ZB-5msi

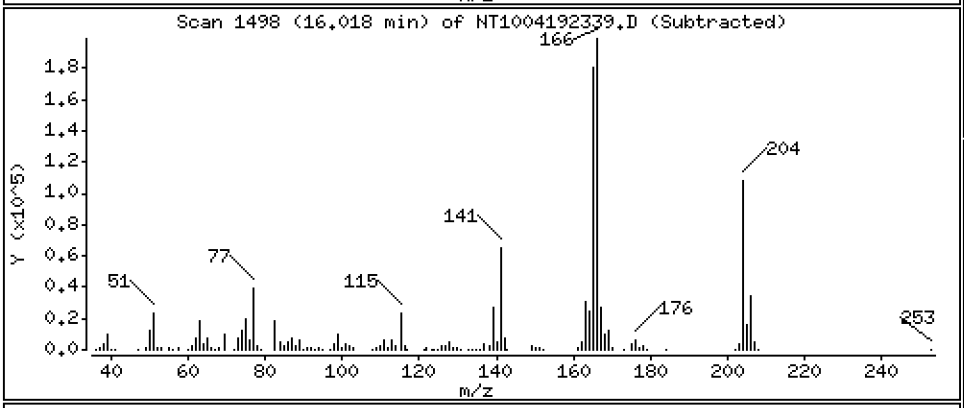
Column diameter: 0.25

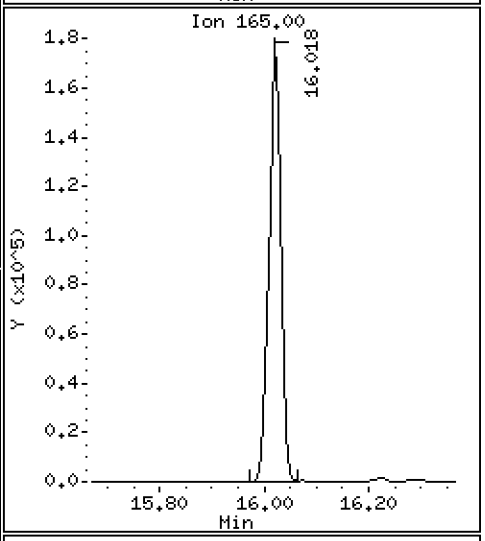
49 Fluorene

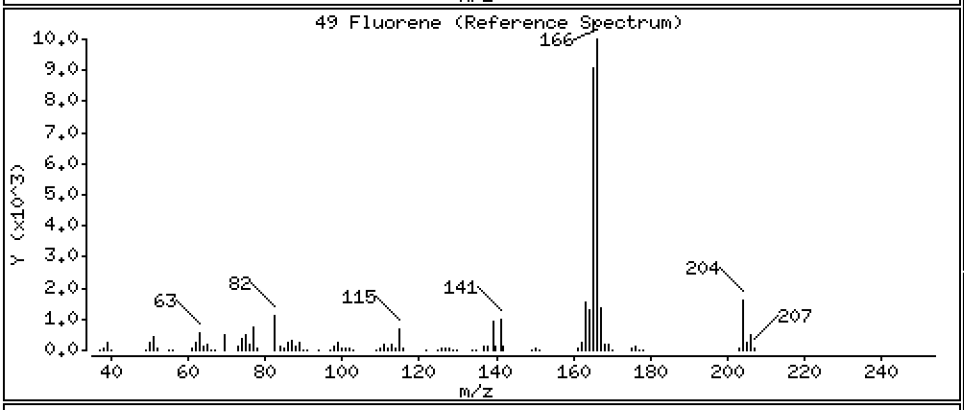
Concentration: 3.283 ug/mL

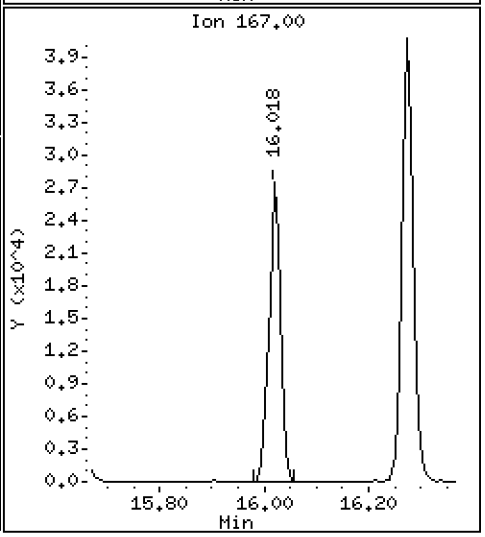


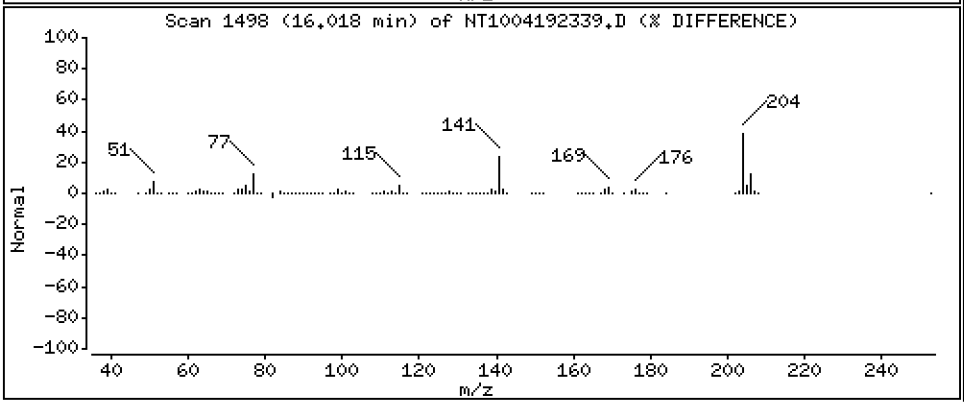












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

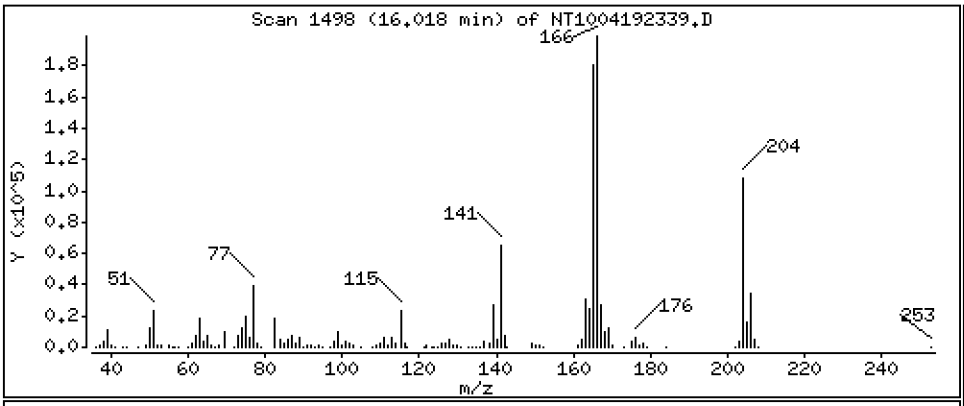
Operator: VTS

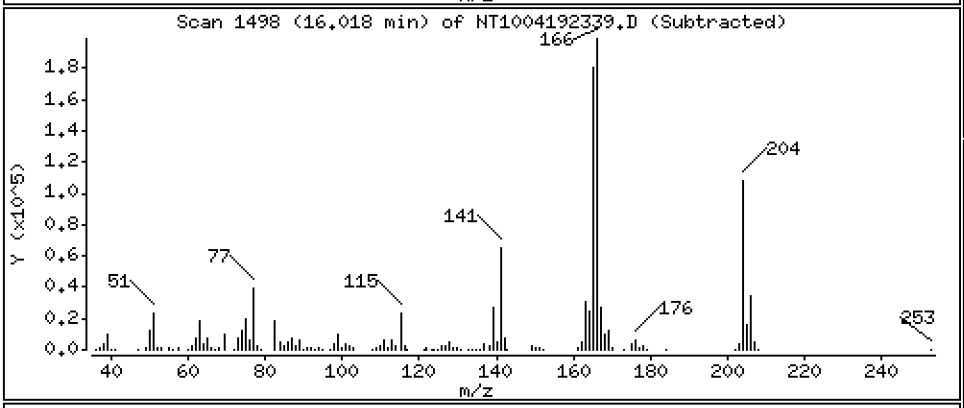
Column phase: ZB-5msi

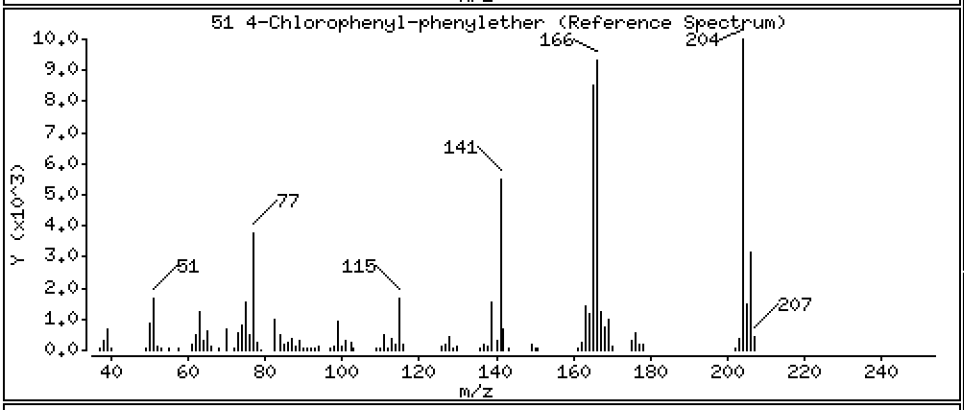
Column diameter: 0.25

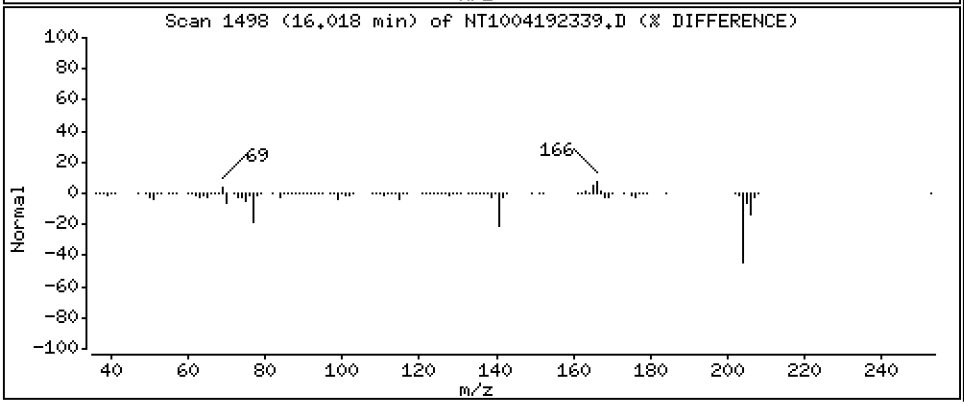
51 4-Chlorophenyl-phenylether

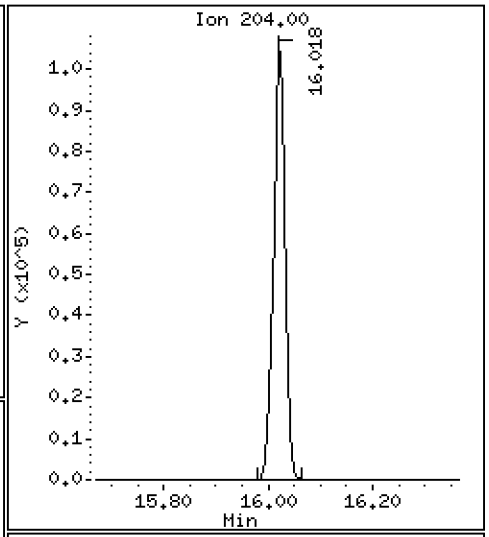
Concentration: 3.611 ug/mL

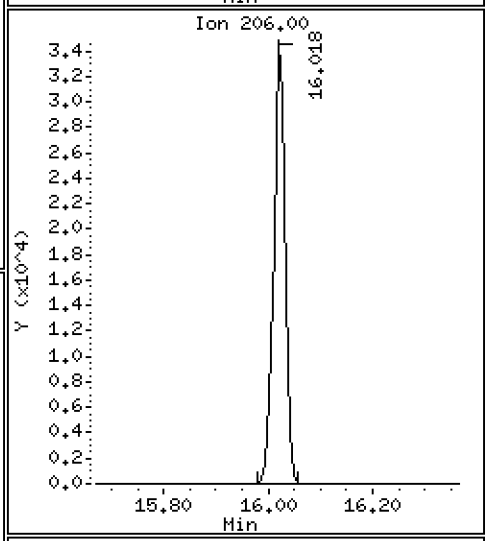


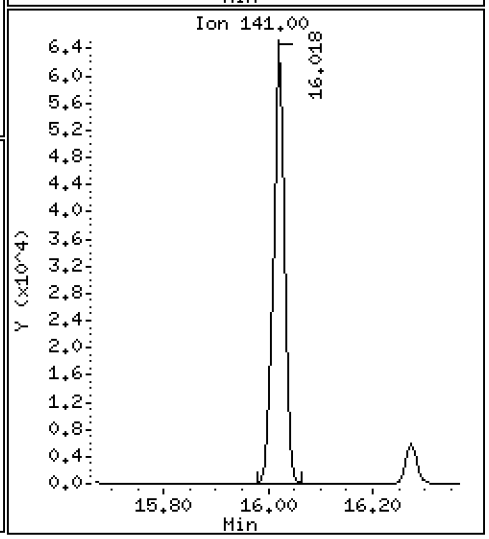












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

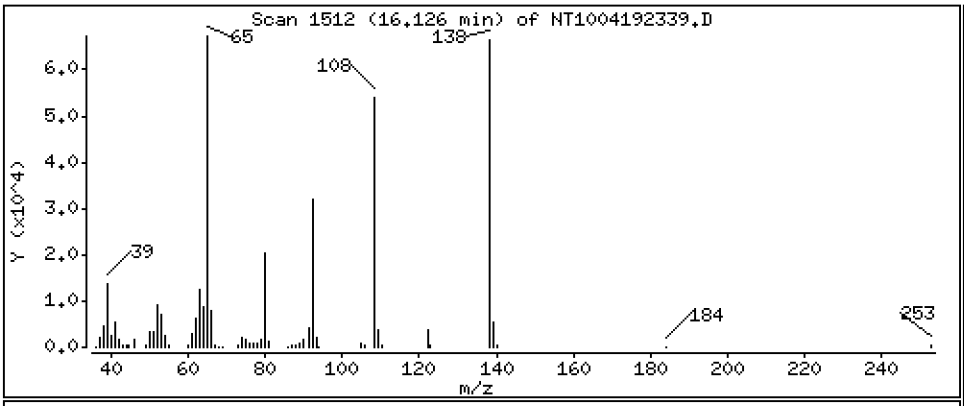
Operator: VTS

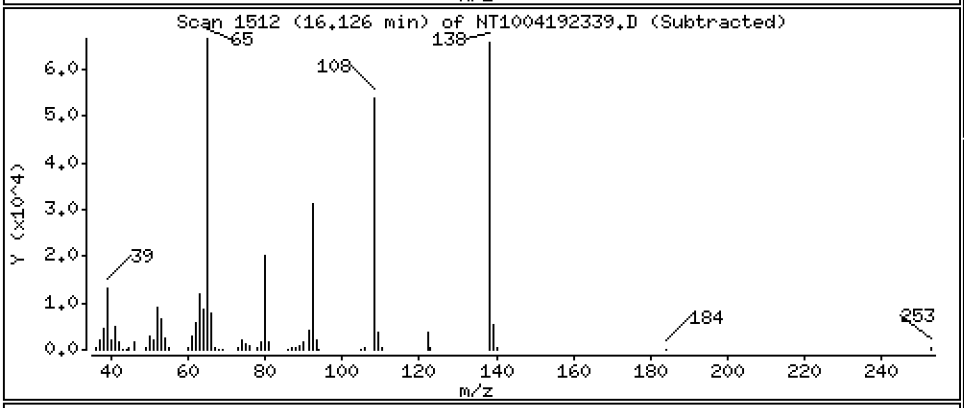
Column phase: ZB-5msi

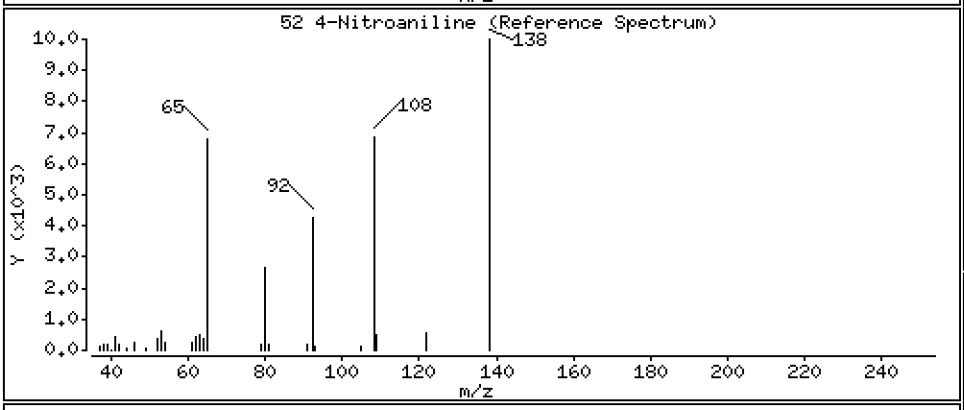
Column diameter: 0.25

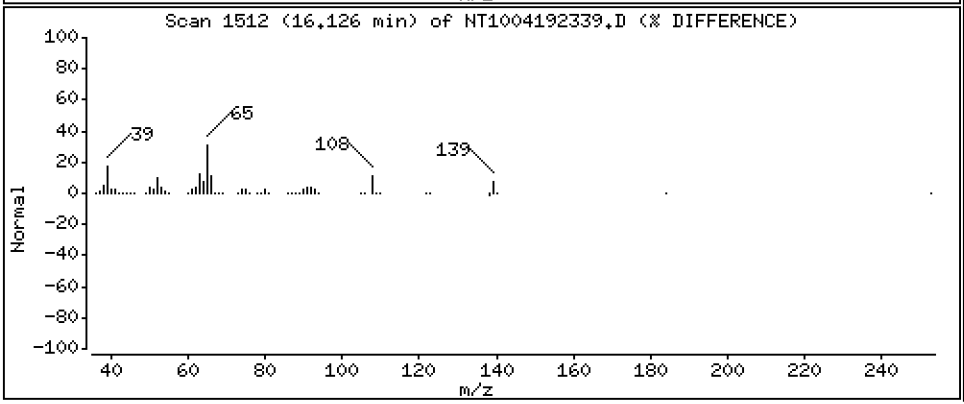
52 4-Nitroaniline

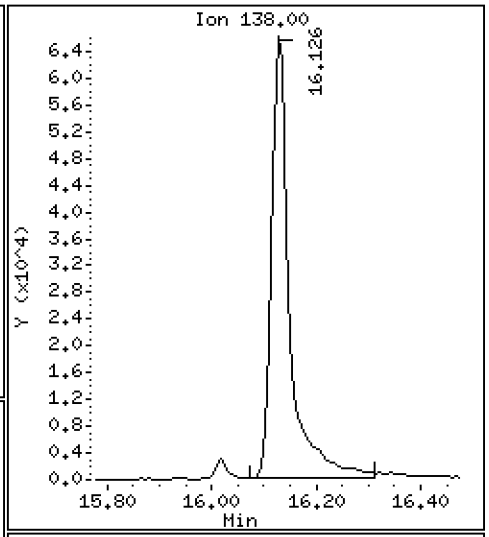
Concentration: 8.277 ug/mL

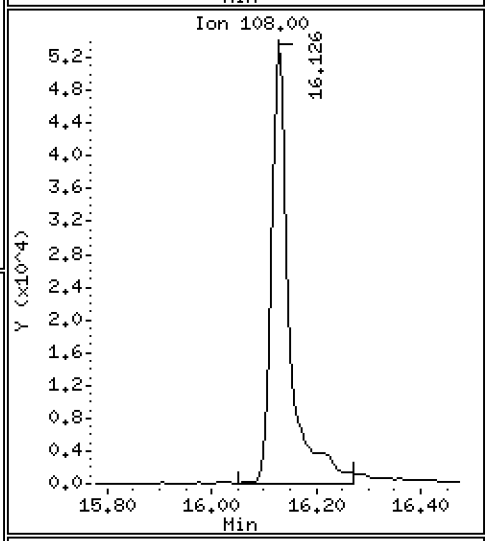


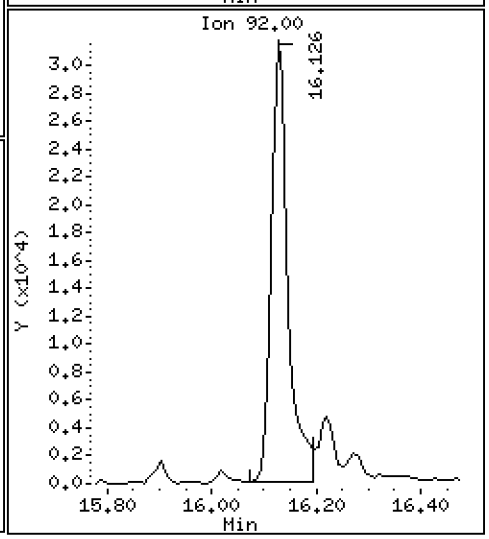












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192339.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

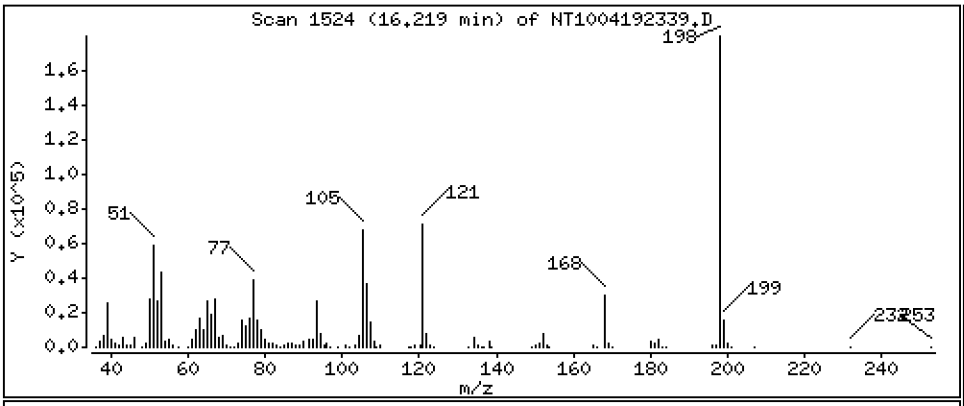
Operator: VTS

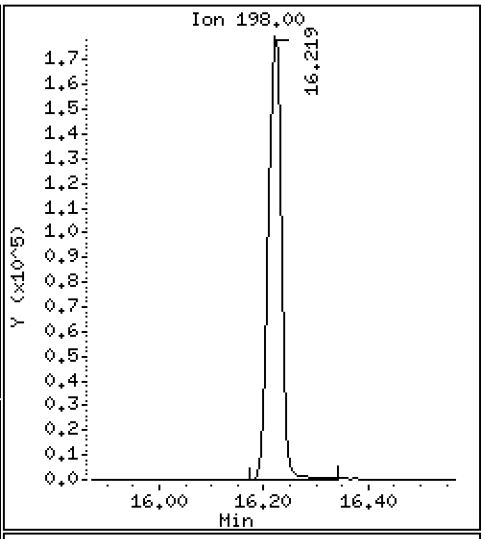
Column phase: ZB-5msi

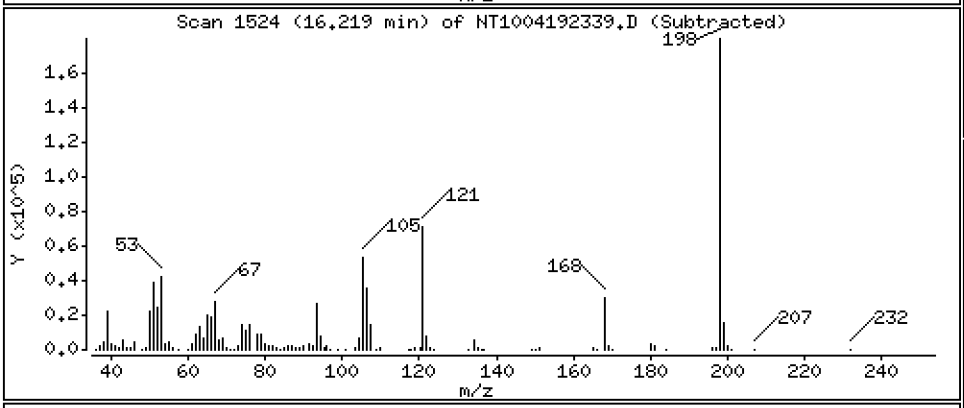
Column diameter: 0.25

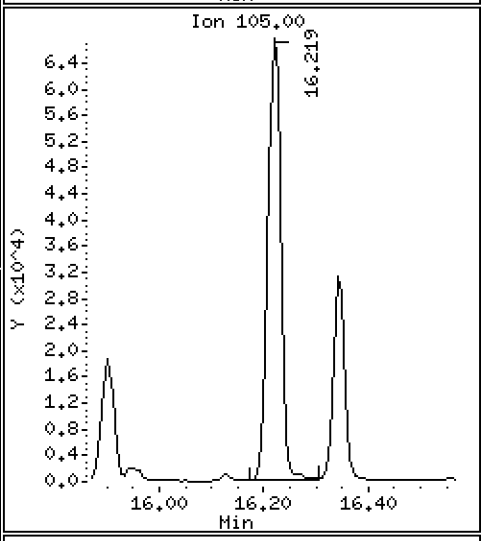
53 4,6-Dinitro-2-methylphenol

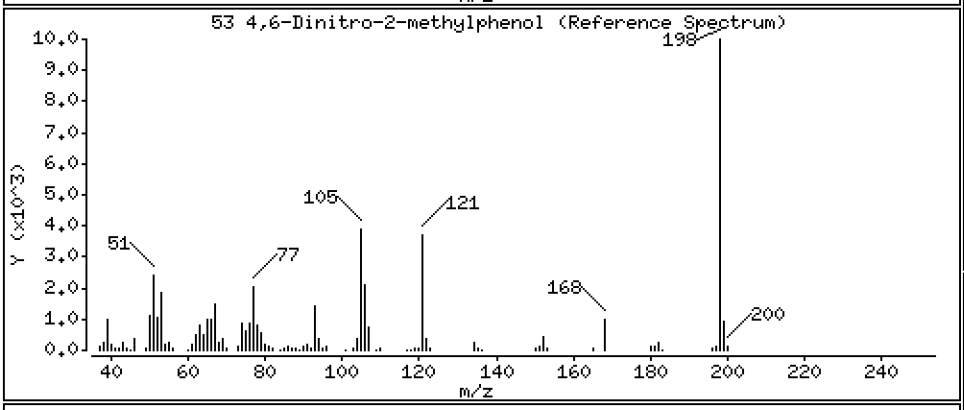
Concentration: 21.62 ug/mL

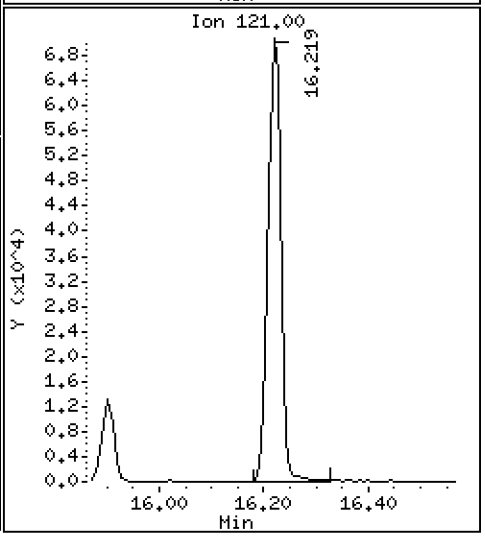


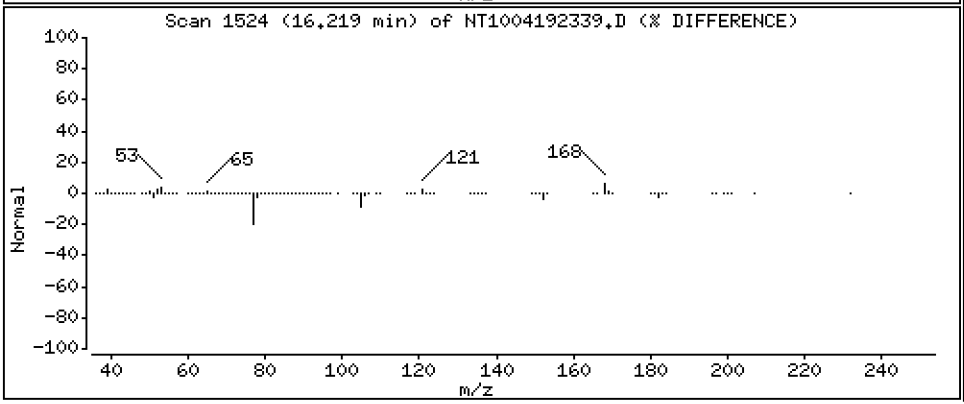












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

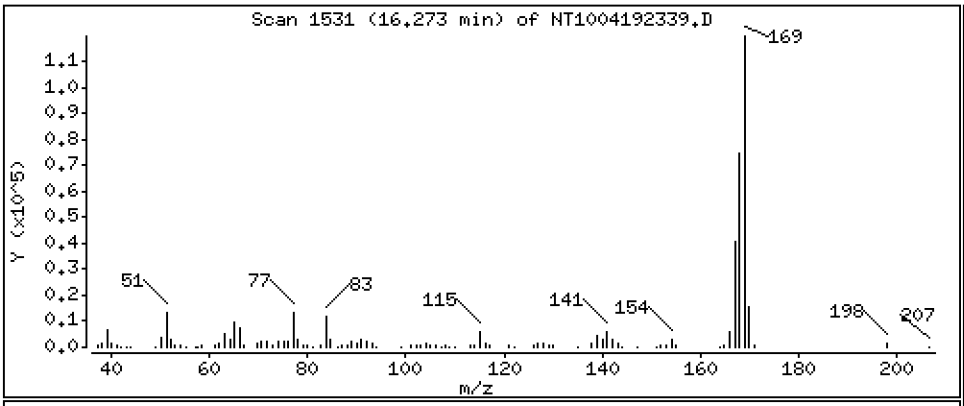
Operator: VTS

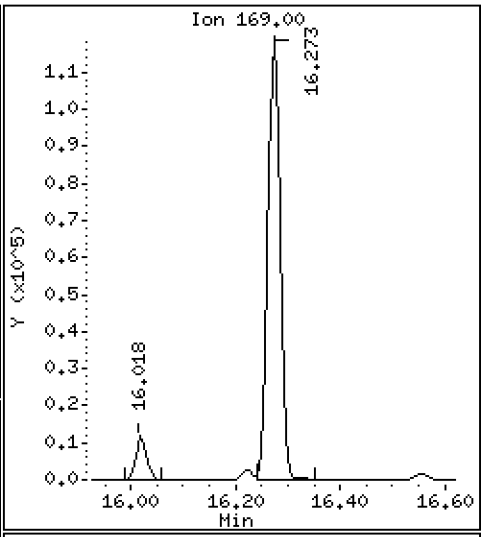
Column phase: ZB-5msi

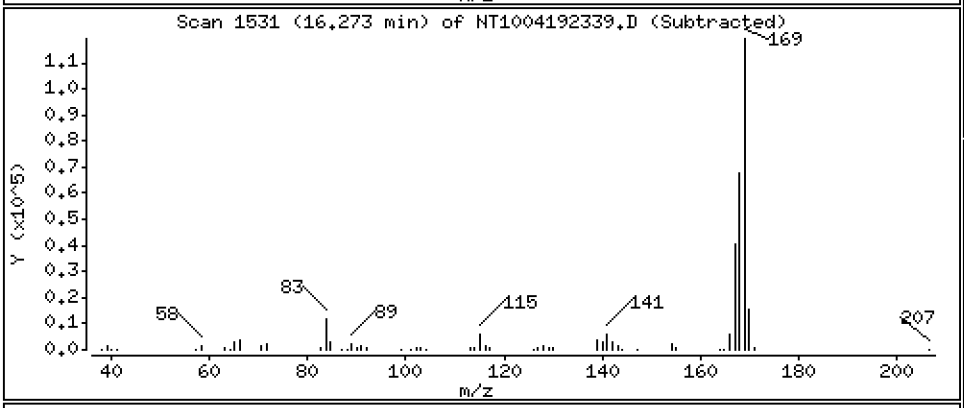
Column diameter: 0.25

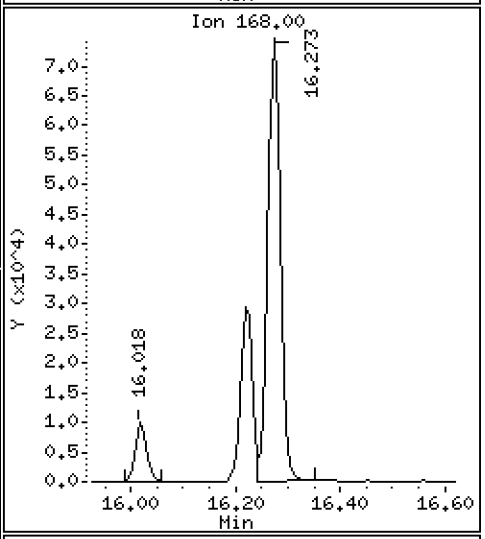
54 N-Nitrosodiphenylamine

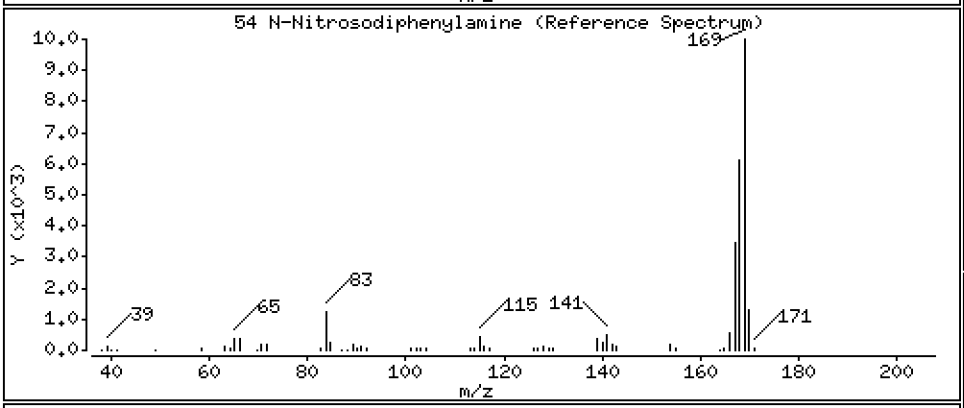
Concentration: 3.064 ug/mL

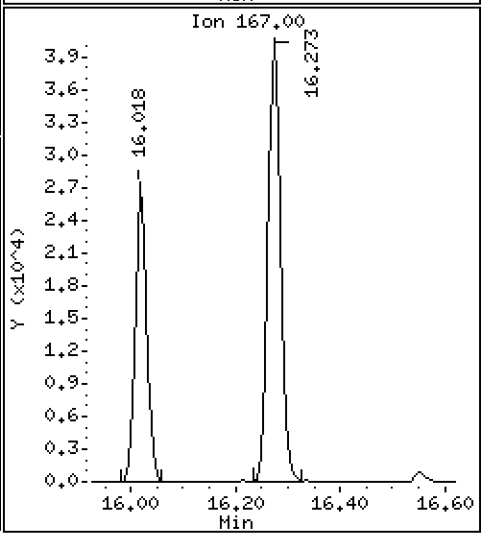


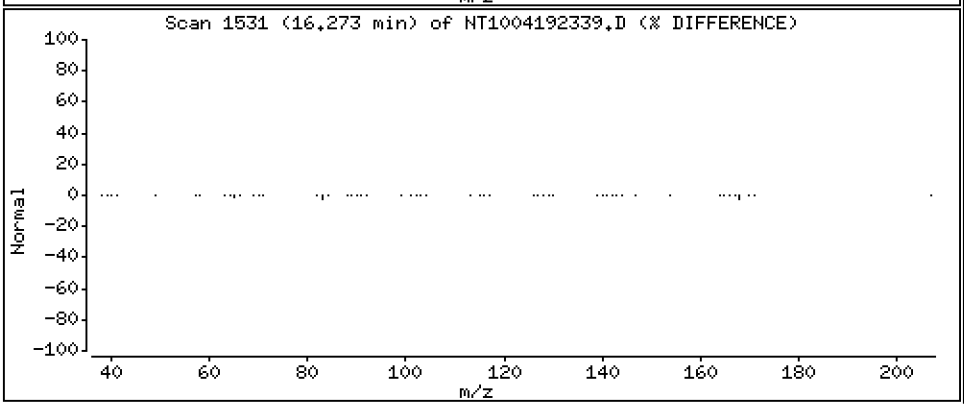












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

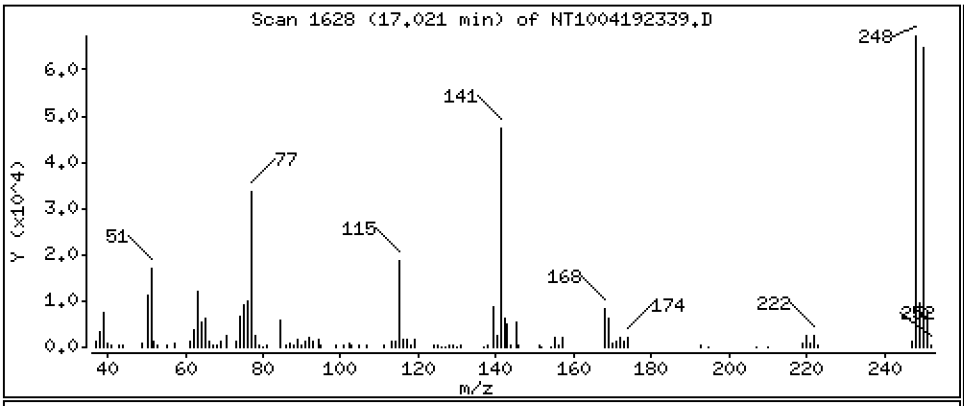
Operator: VTS

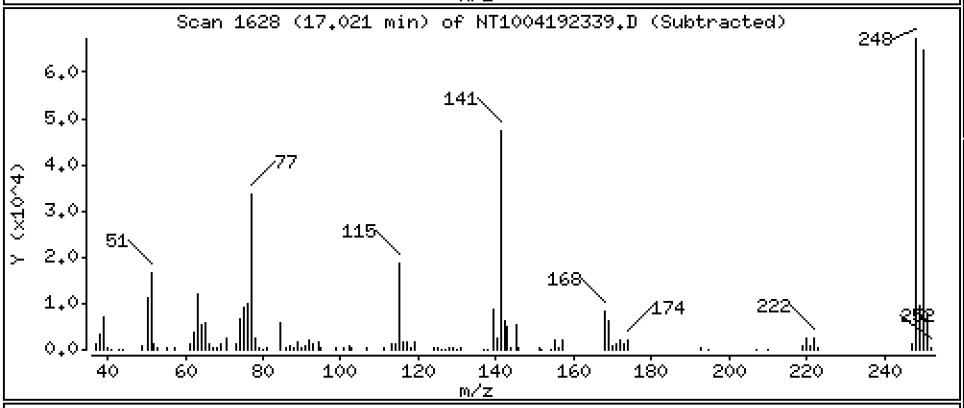
Column phase: ZB-5msi

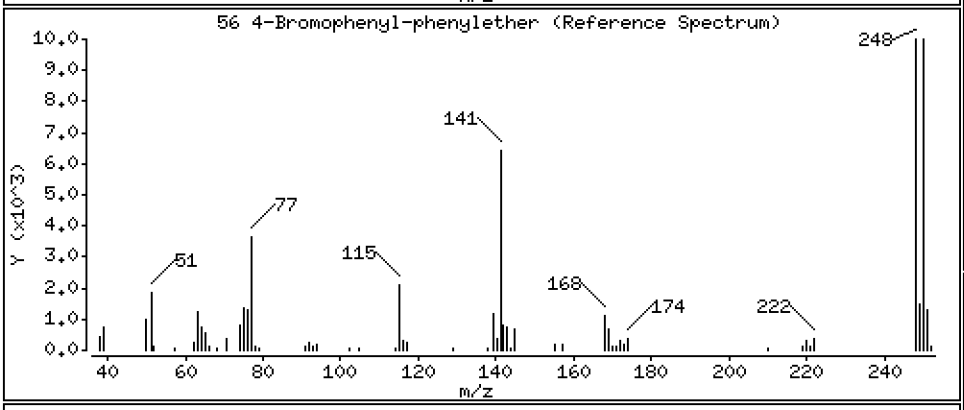
Column diameter: 0.25

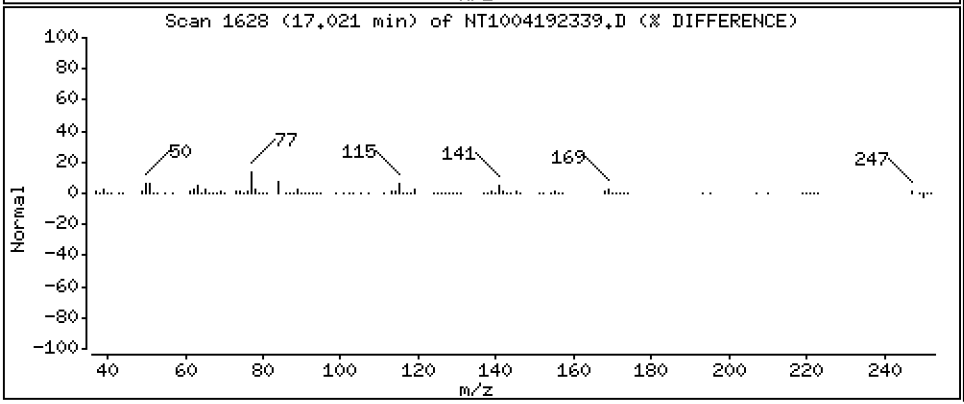
56 4-Bromophenyl-phenylether

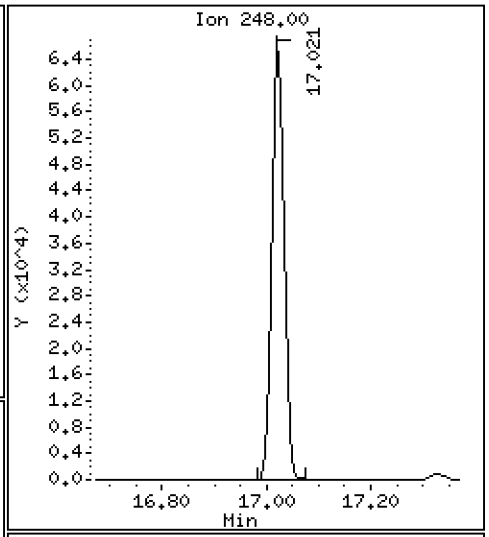
Concentration: 4.120 ug/mL

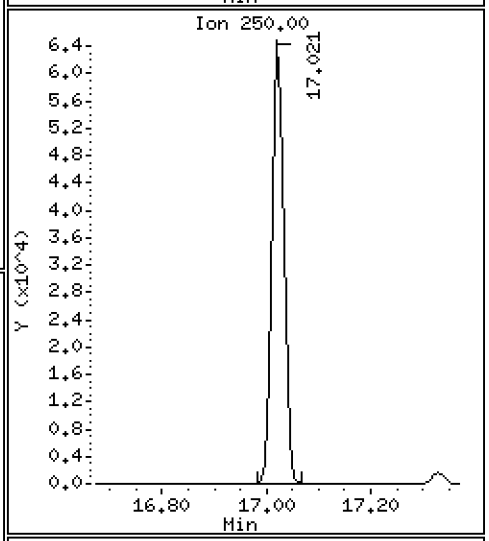


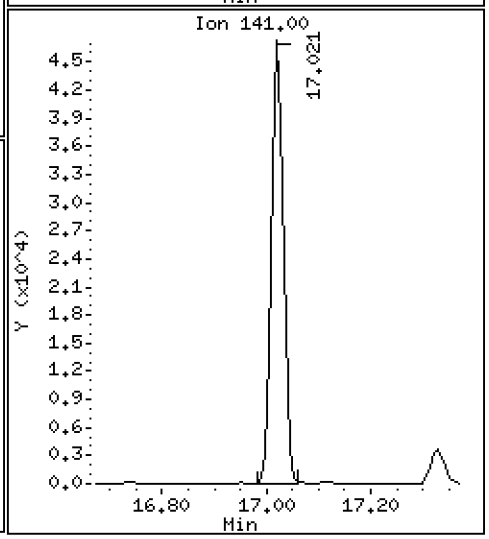












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

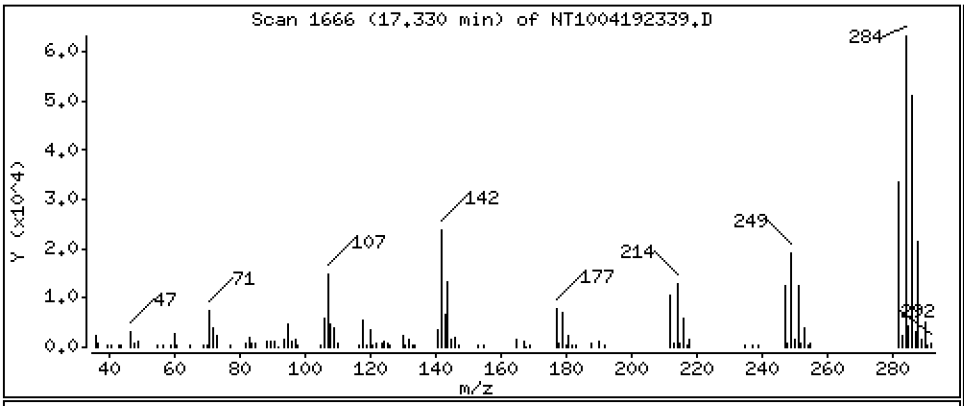
Operator: VTS

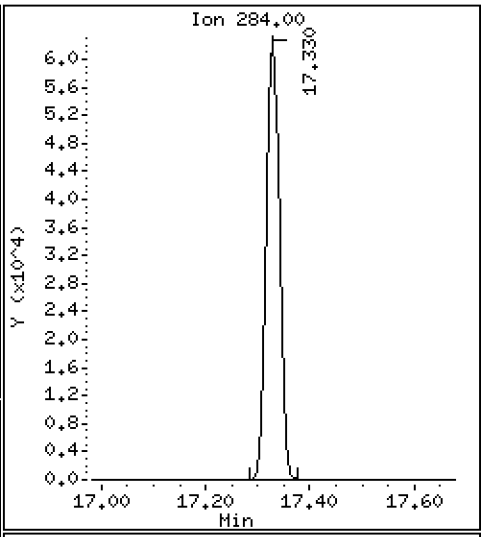
Column phase: ZB-5msi

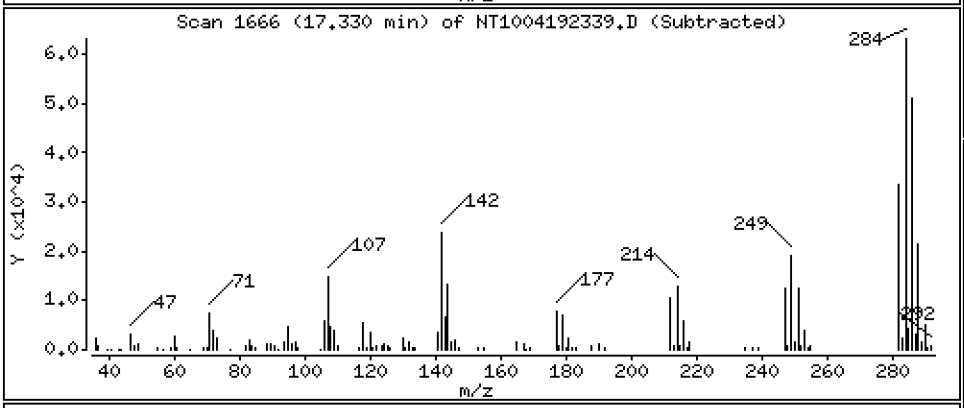
Column diameter: 0.25

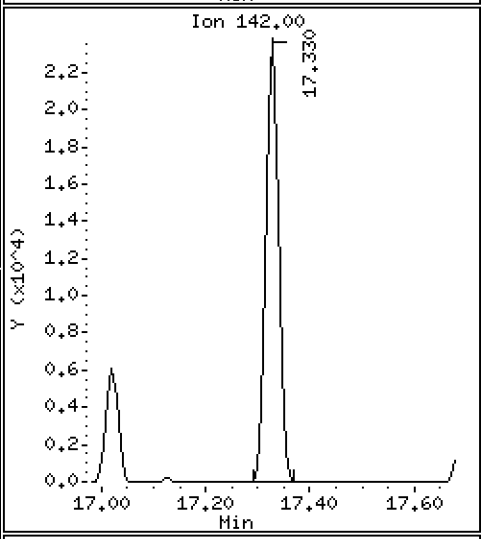
57 Hexachlorobenzene

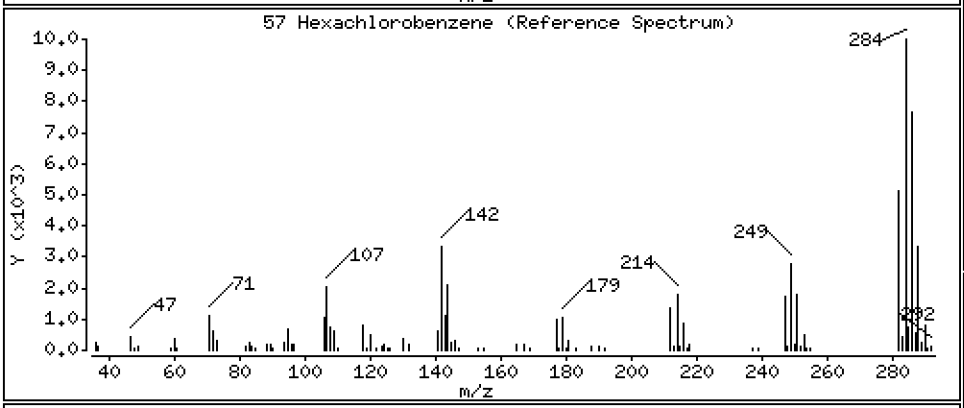
Concentration: 3.994 ug/mL

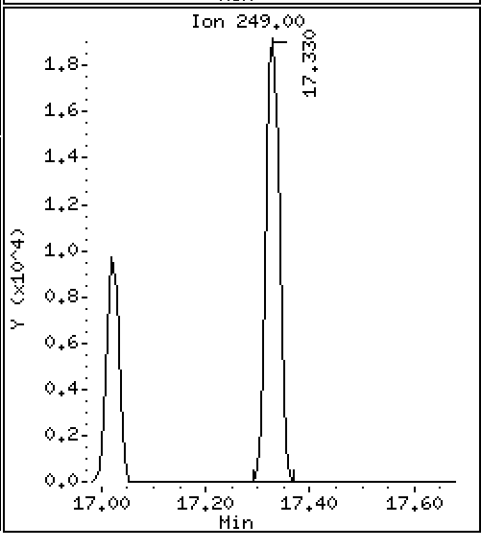


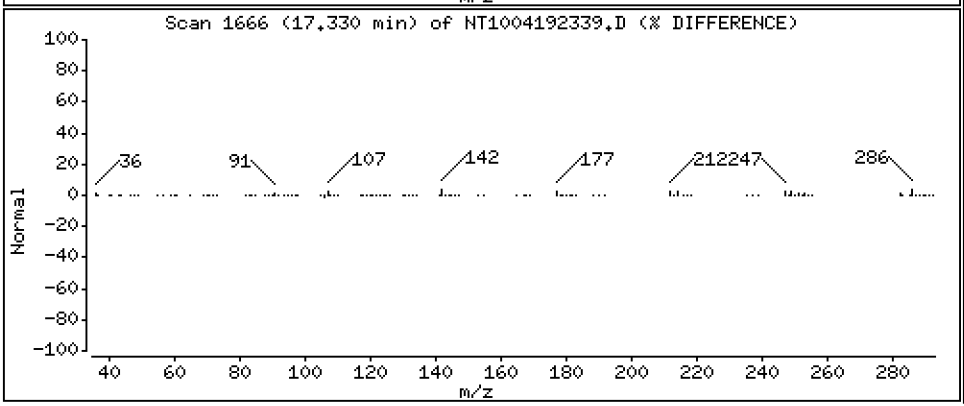












Date : 20-APR-2023 11:29

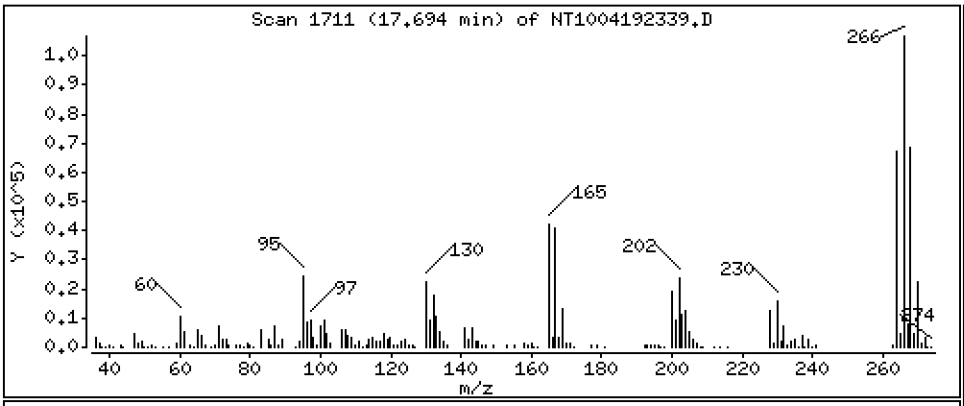
Client ID: Instrument: nt10.i

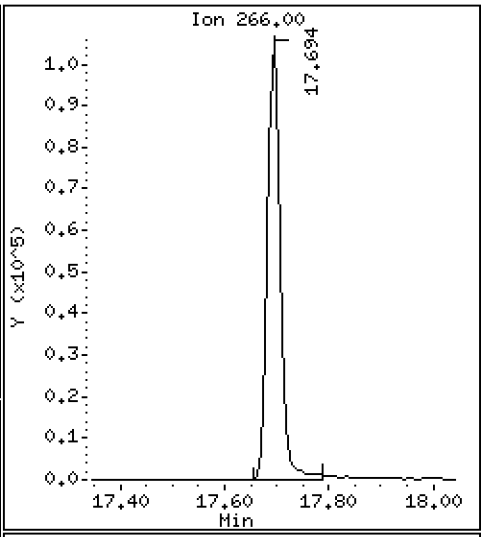
Sample Info: BLD0008-BSD1

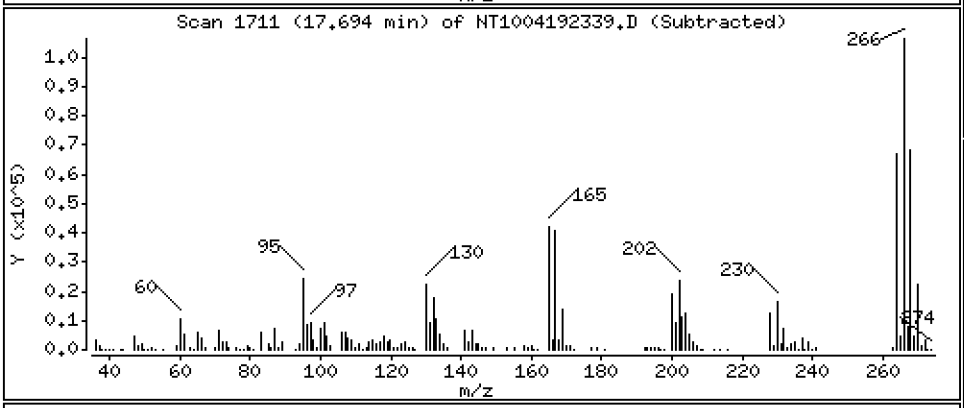
Operator: VTS

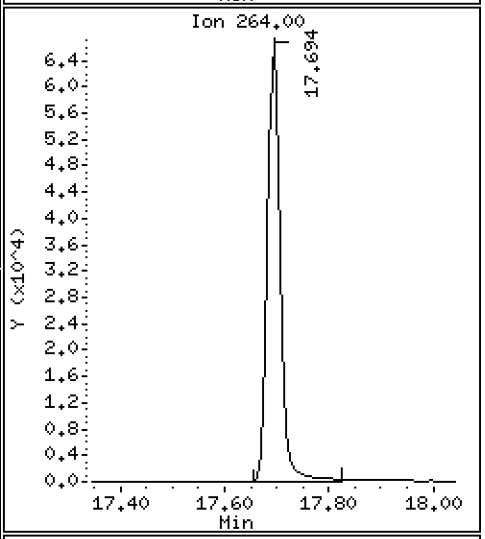
Column phase: ZB-5msi Column diameter: 0.25

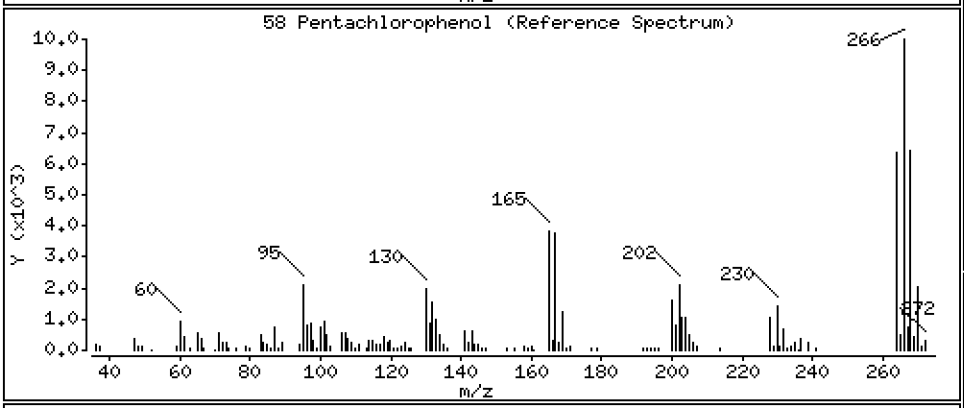
58 Pentachlorophenol Concentration: 10.76 ug/mL

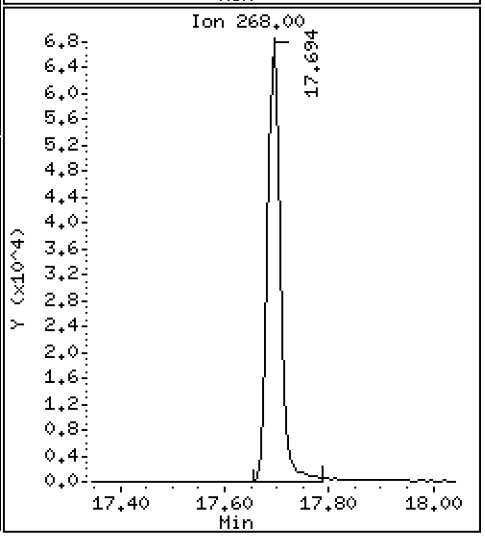


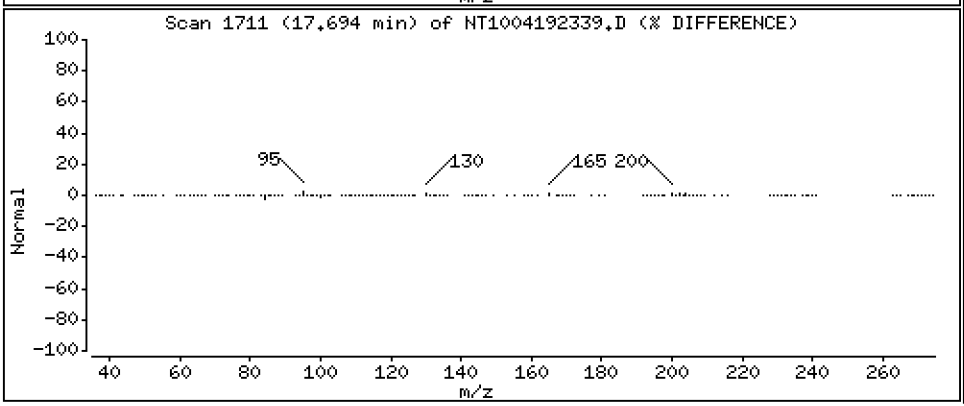












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

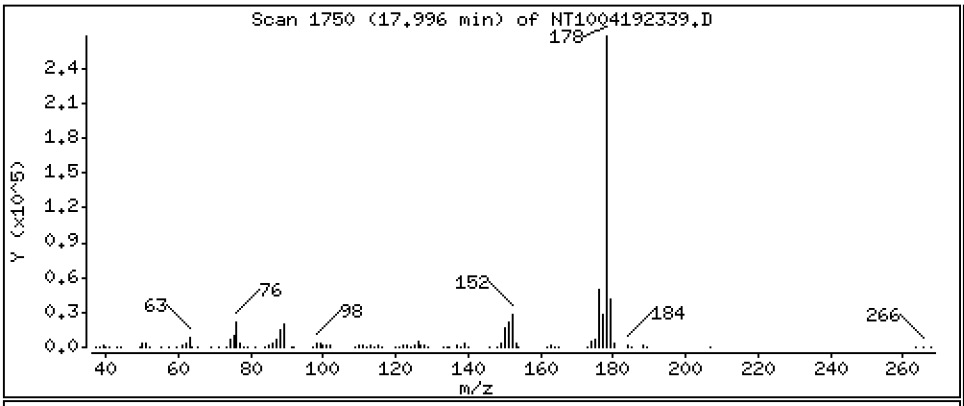
Operator: VTS

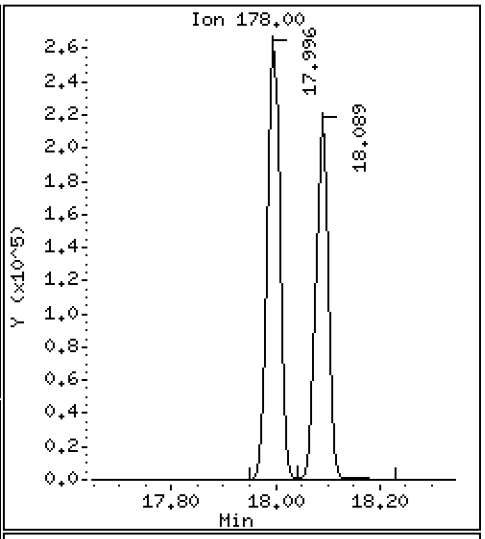
Column phase: ZB-5msi

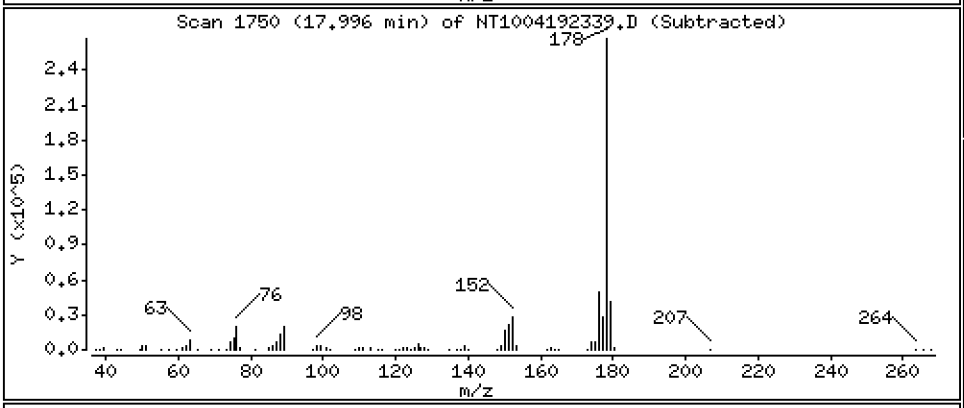
Column diameter: 0.25

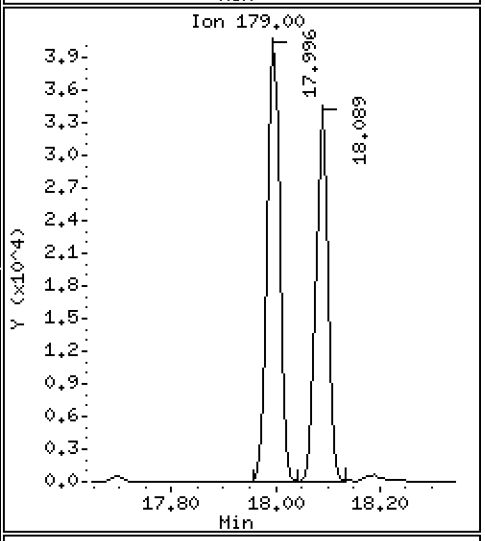
60 Phenanthrene

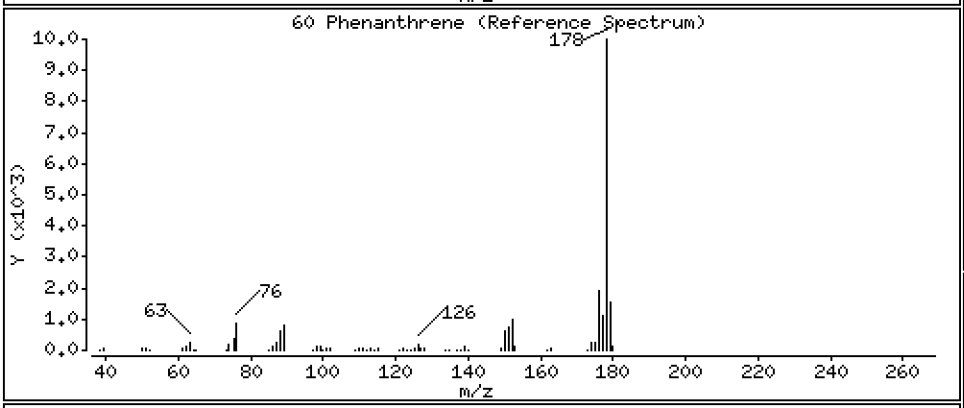
Concentration: 3.429 ug/mL

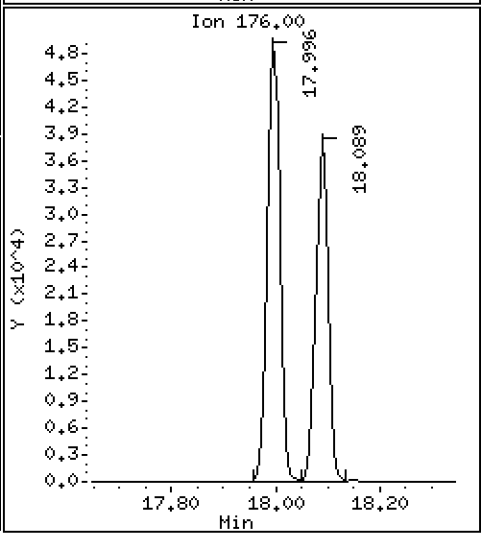


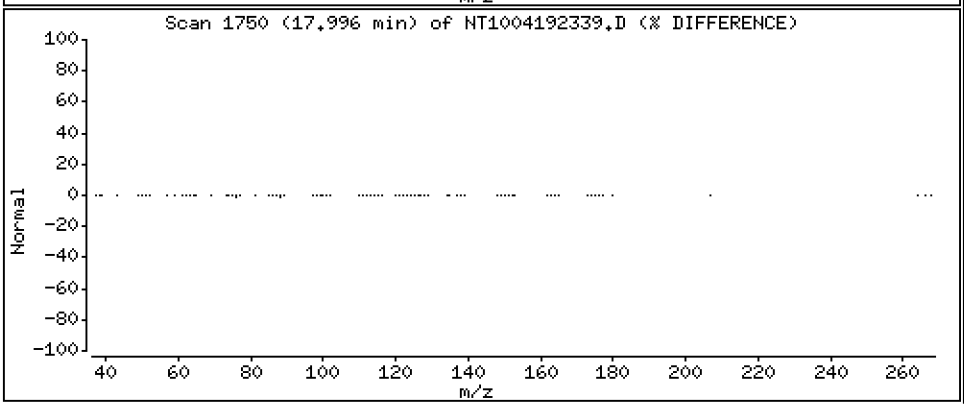












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

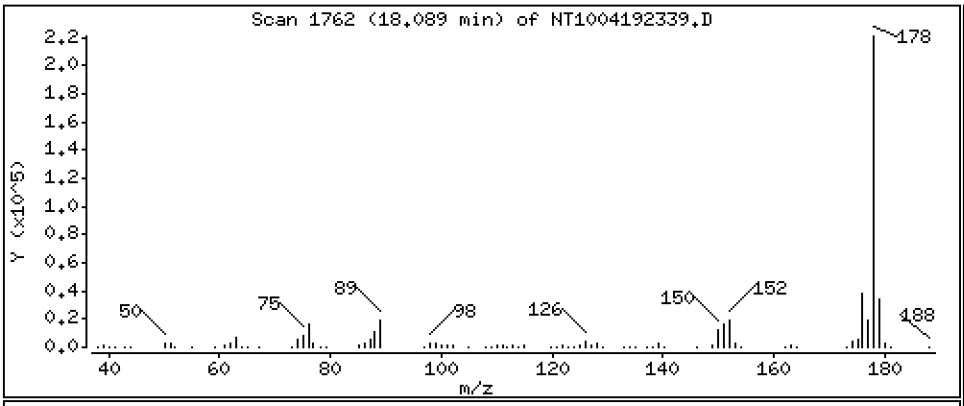
Operator: VTS

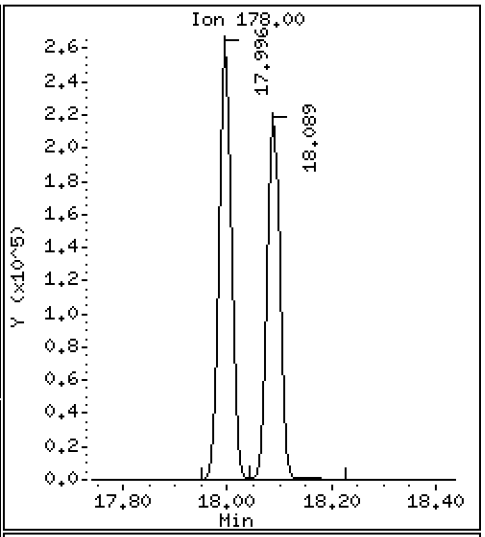
Column phase: ZB-5msi

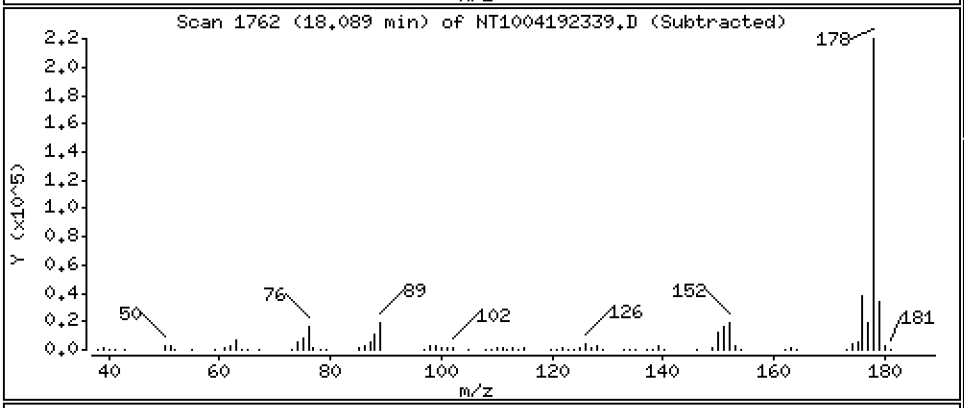
Column diameter: 0.25

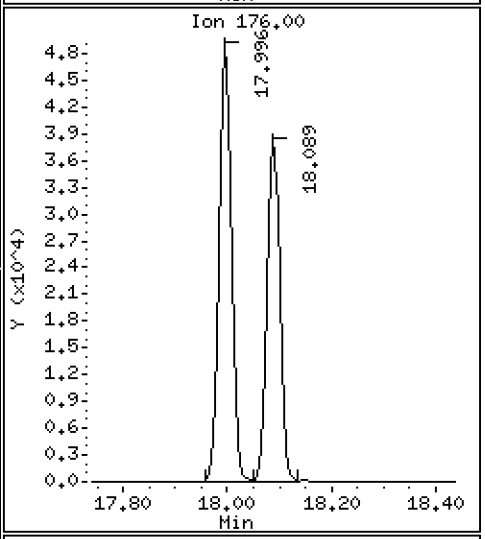
61 Anthracene

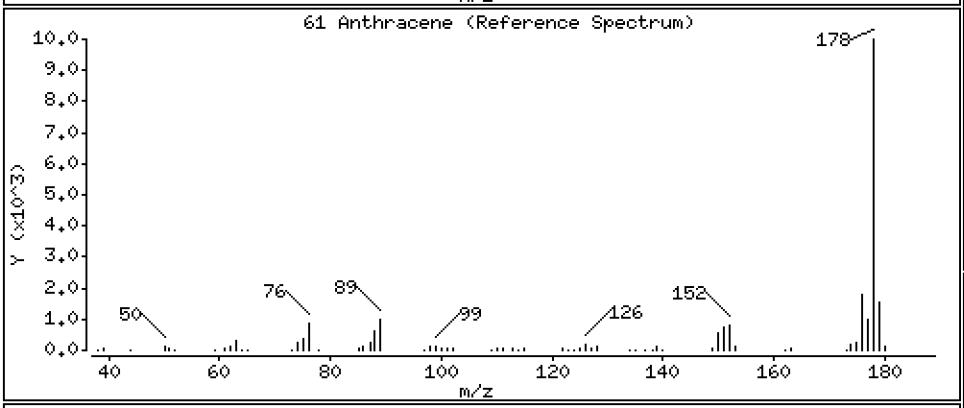
Concentration: 3.005 ug/mL

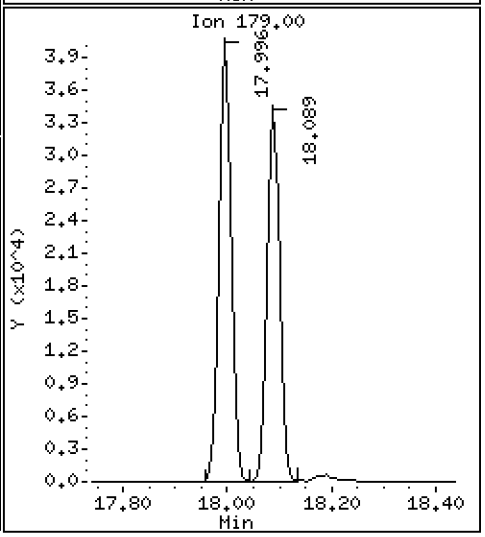


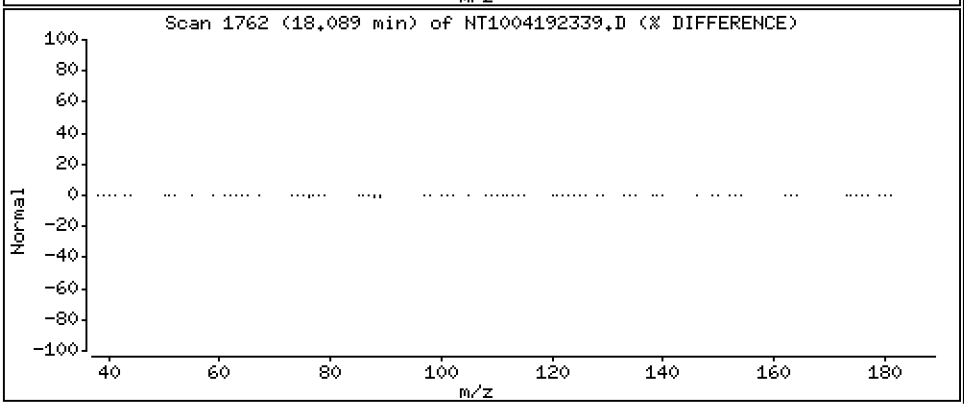












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

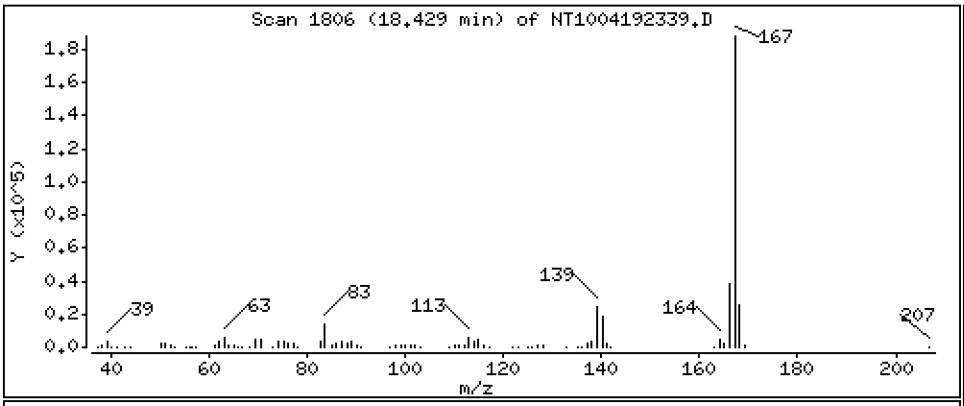
Operator: VTS

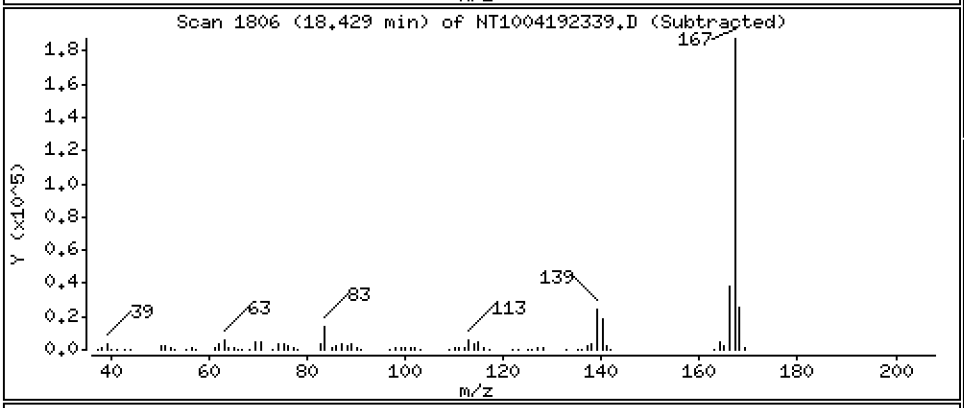
Column phase: ZB-5msi

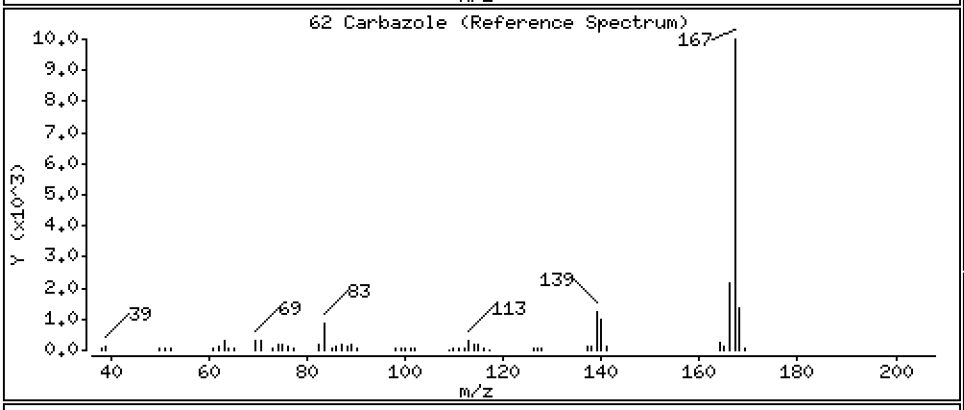
Column diameter: 0.25

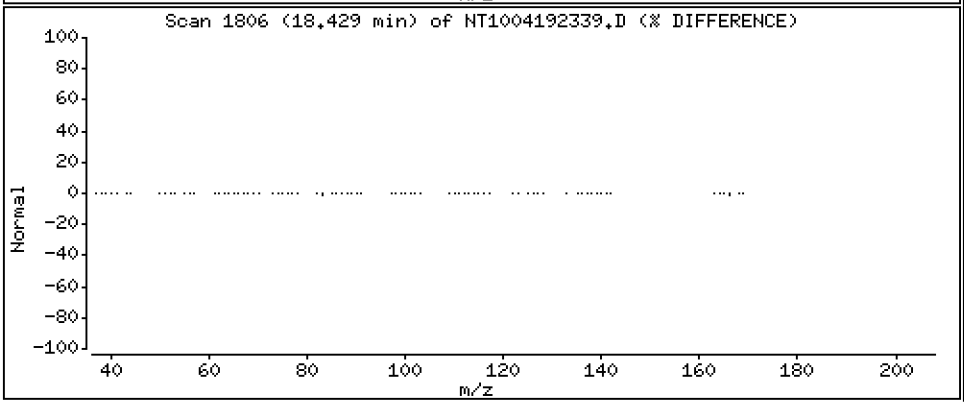
62 Carbazole

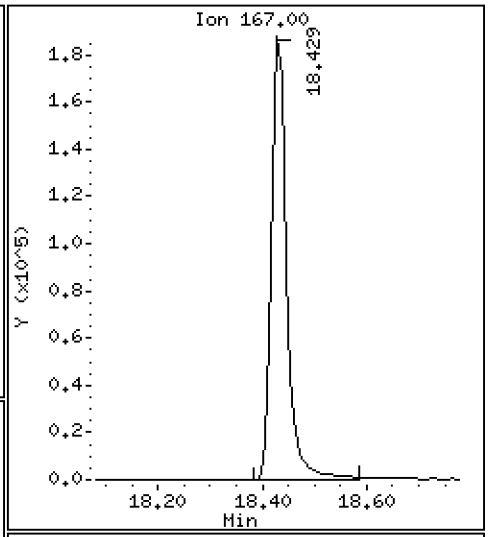
Concentration: 3.453 ug/mL

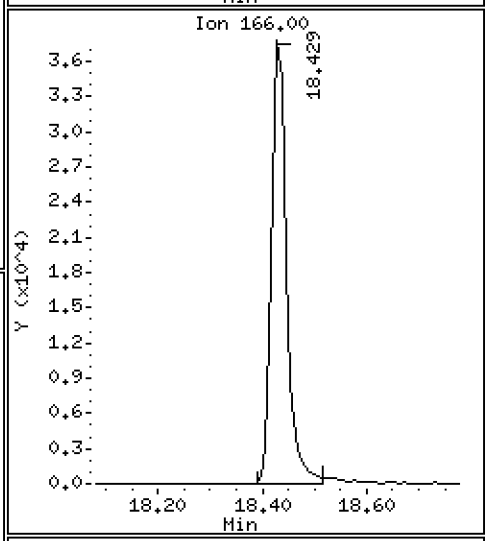


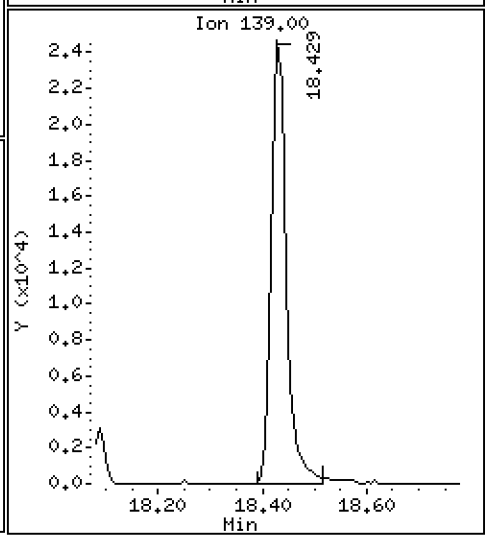












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

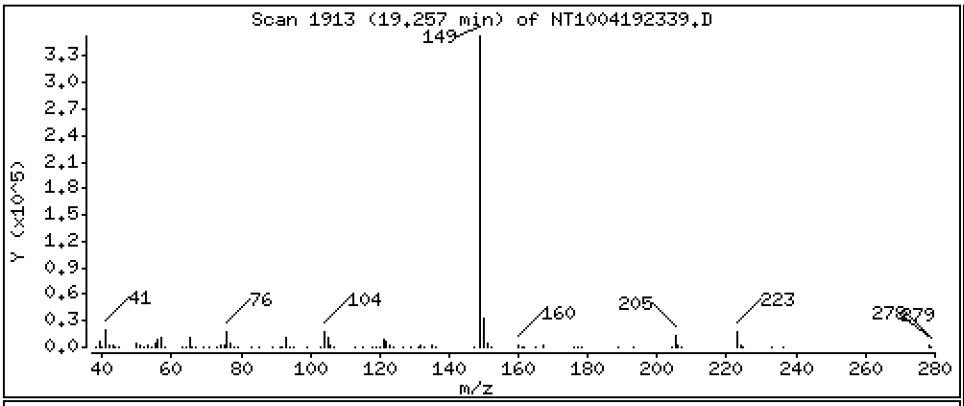
Operator: VTS

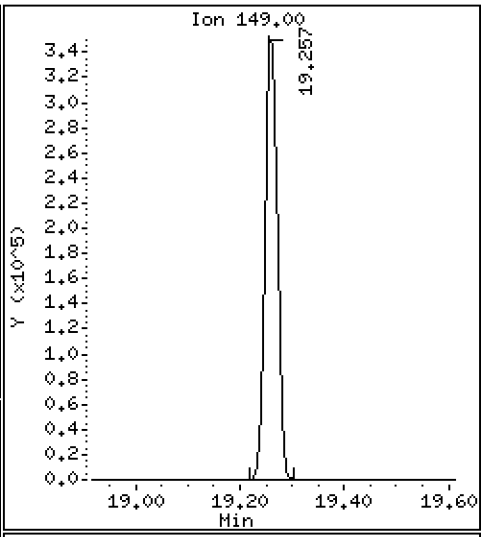
Column phase: ZB-5msi

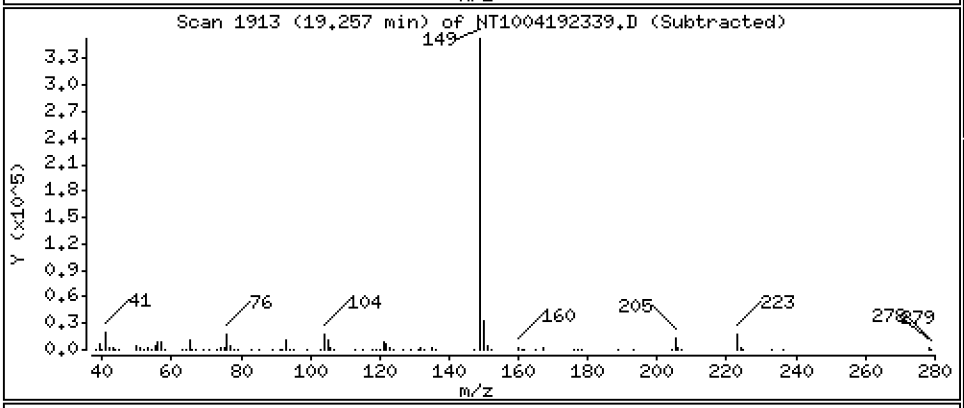
Column diameter: 0.25

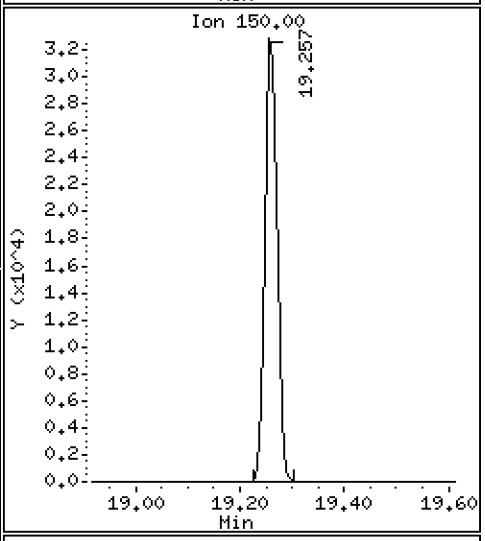
63 Di-n-butylphthalate

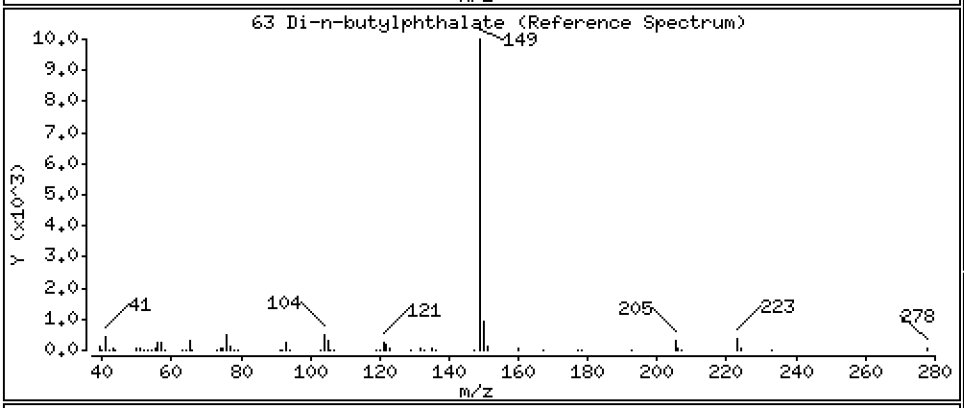
Concentration: 3.913 ug/mL

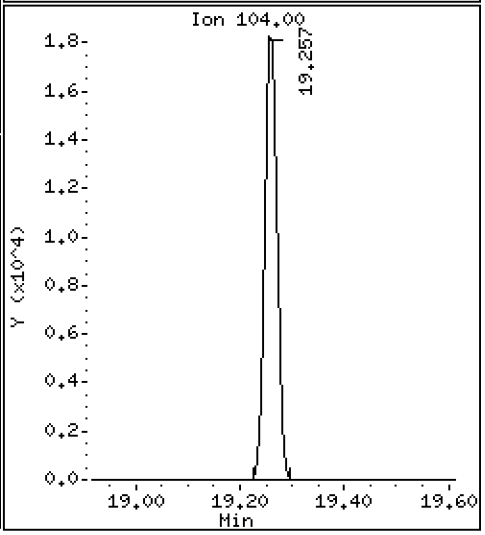


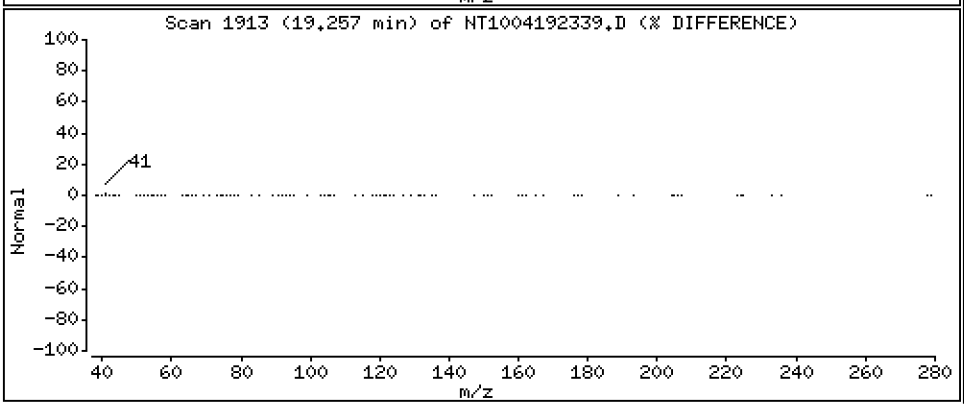












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

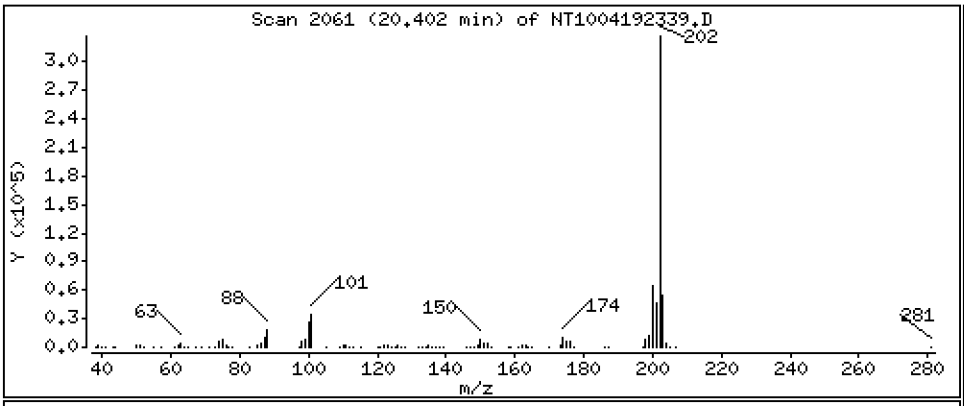
Operator: VTS

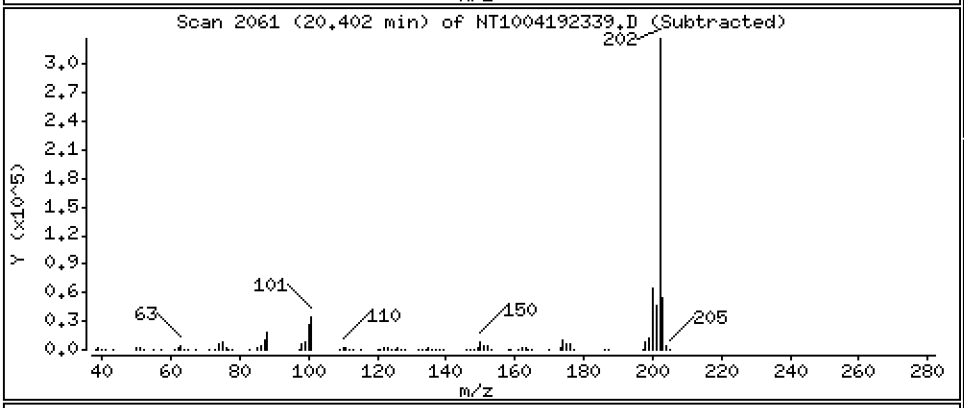
Column phase: ZB-5msi

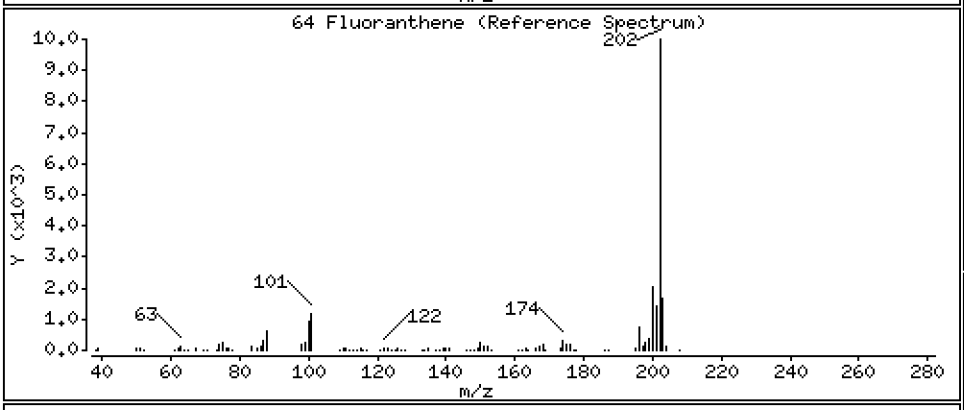
Column diameter: 0.25

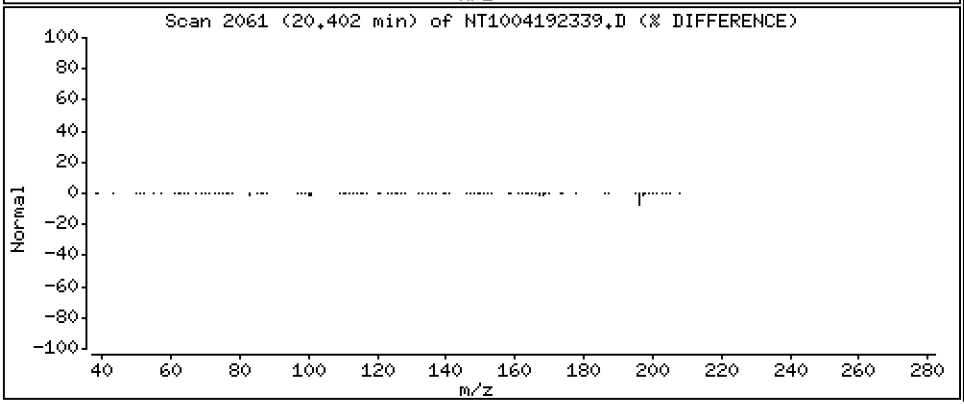
64 Fluoranthene

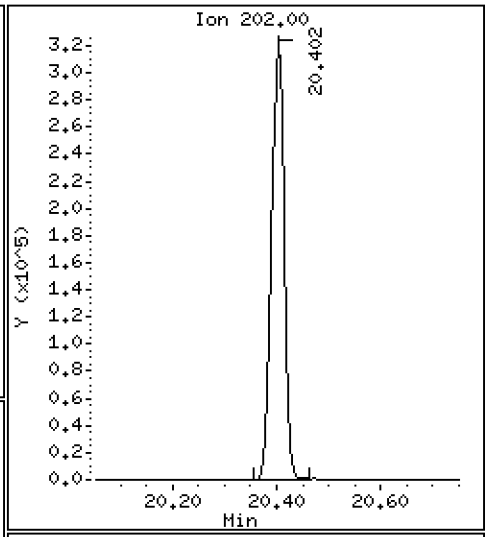
Concentration: 2.936 ug/mL

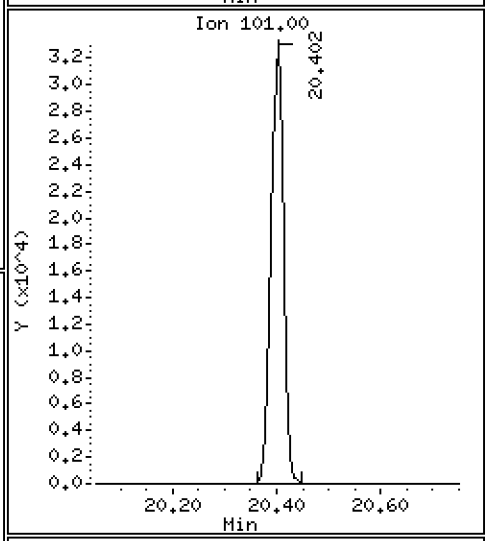


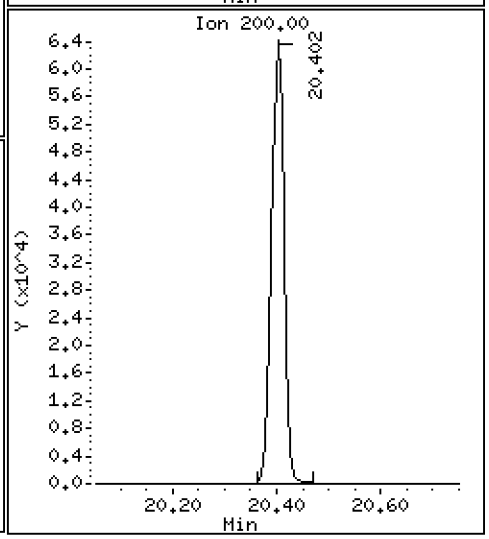












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

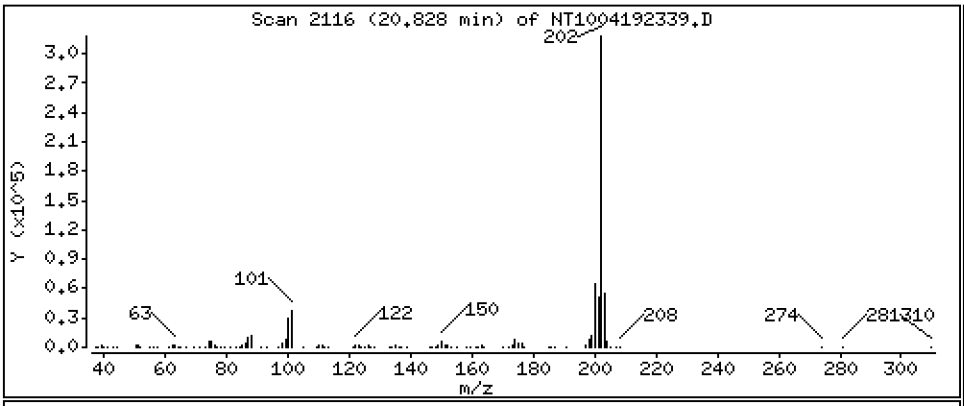
Operator: VTS

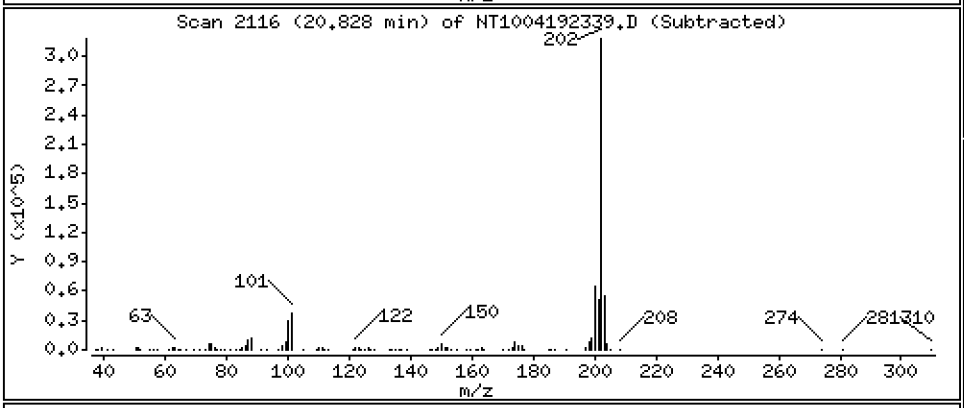
Column phase: ZB-5msi

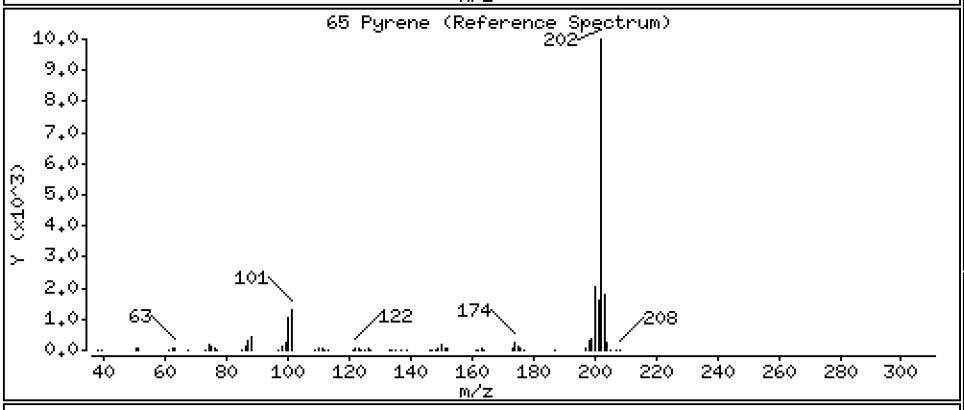
Column diameter: 0.25

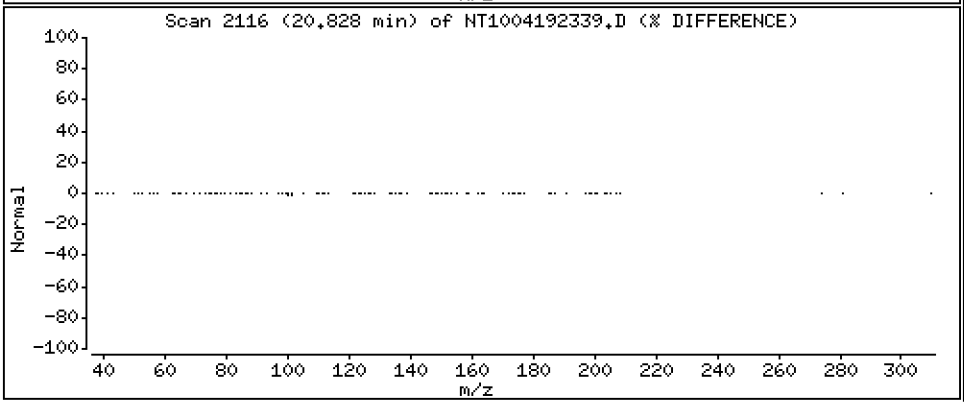
65 Pyrene

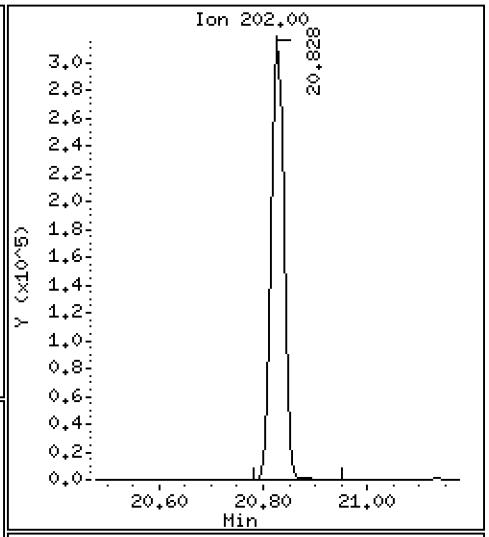
Concentration: 2.851 ug/mL

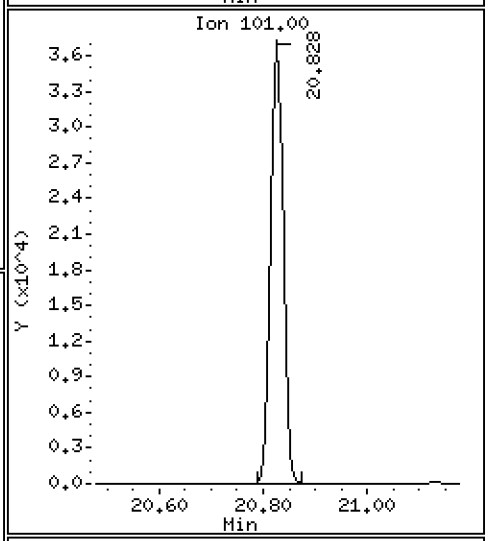


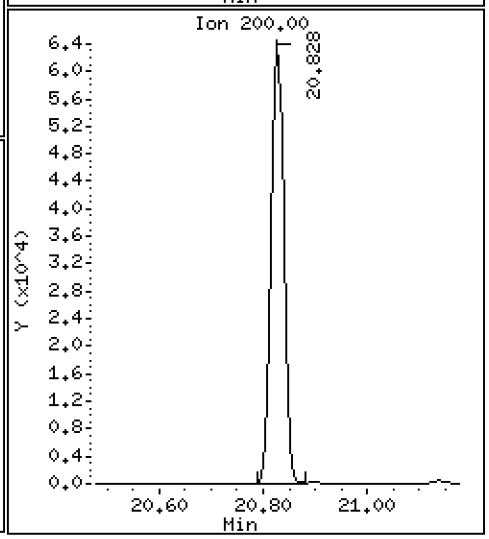












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

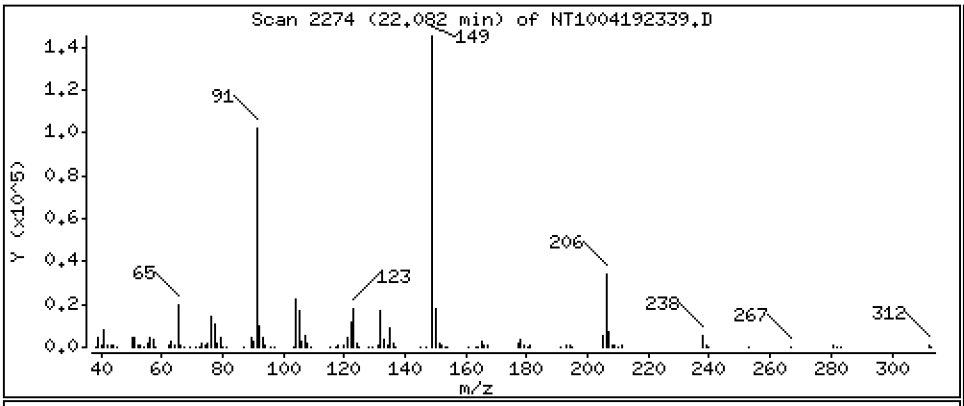
Operator: VTS

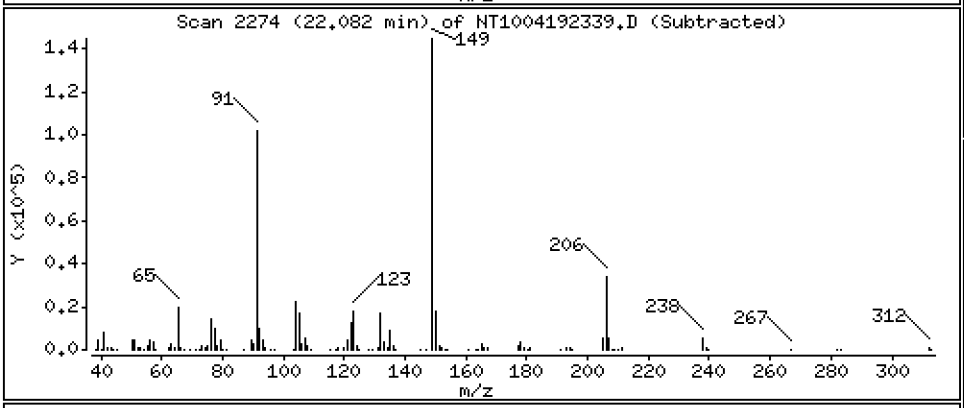
Column phase: ZB-5msi

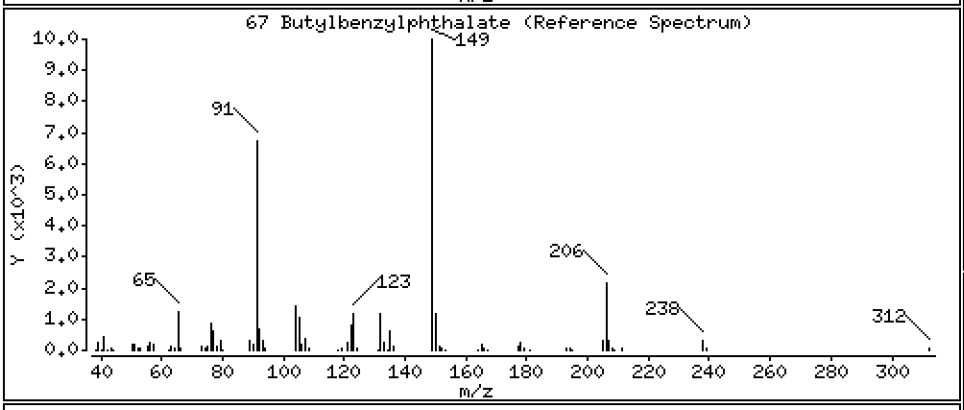
Column diameter: 0.25

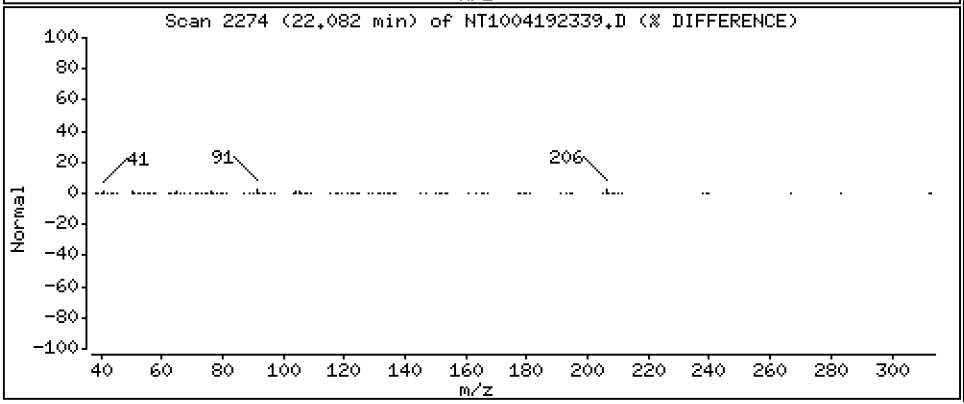
67 Butylbenzylphthalate

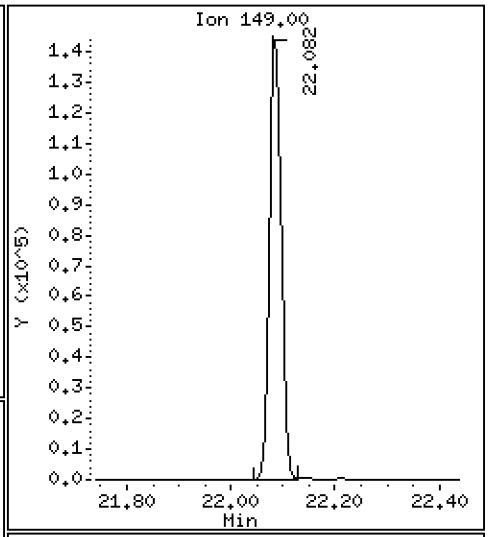
Concentration: 3.367 ug/mL

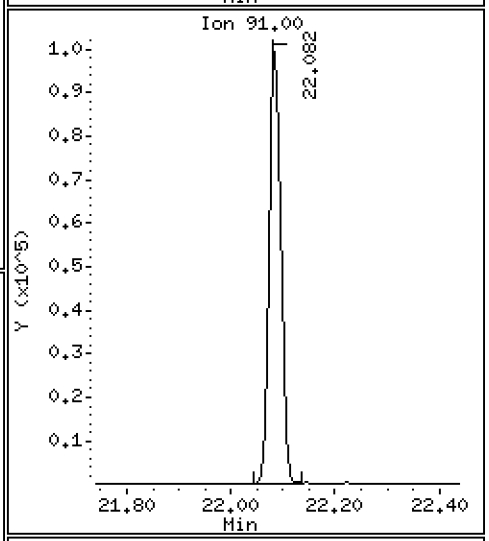


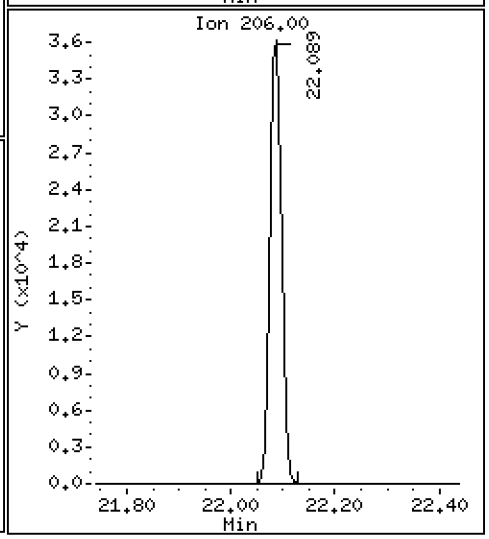












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

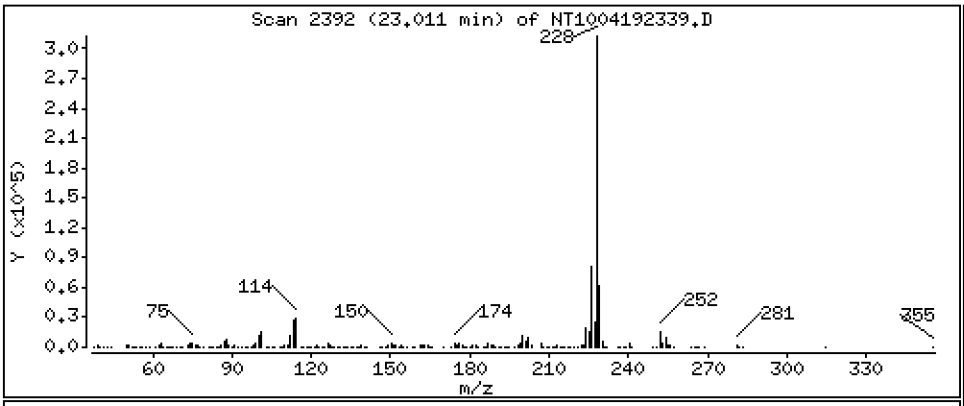
Operator: VTS

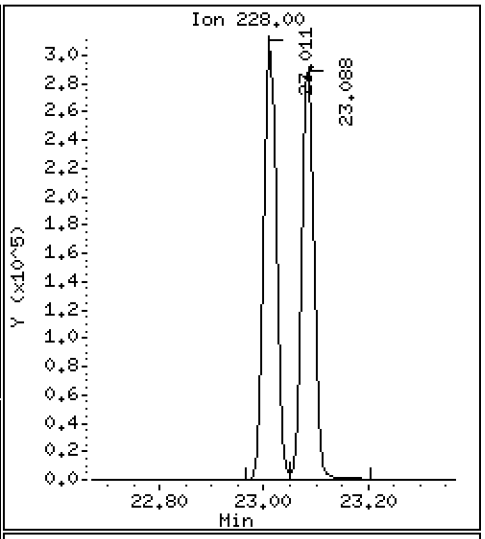
Column phase: ZB-5msi

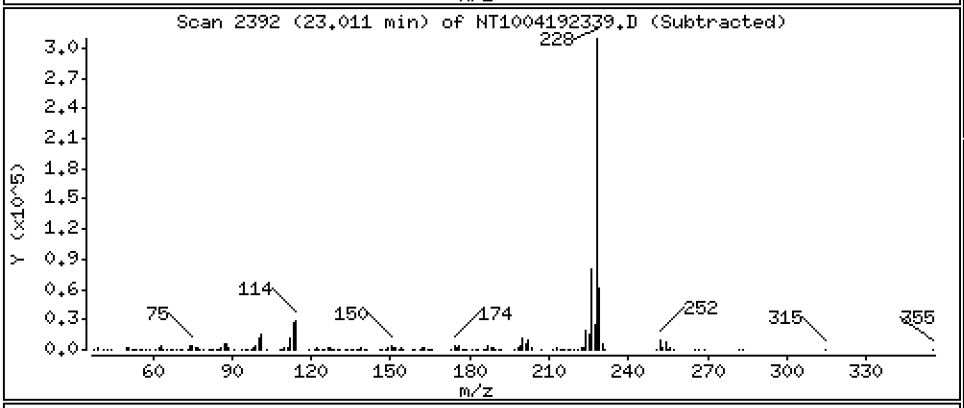
Column diameter: 0.25

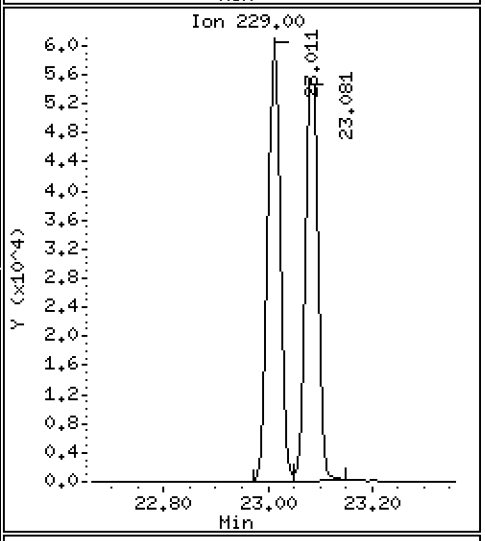
68 Benzo(a)anthracene

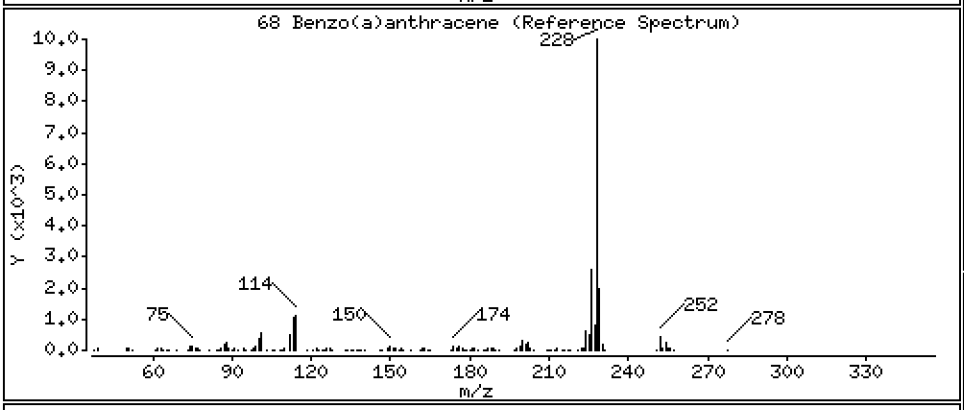
Concentration: 3.215 ug/mL

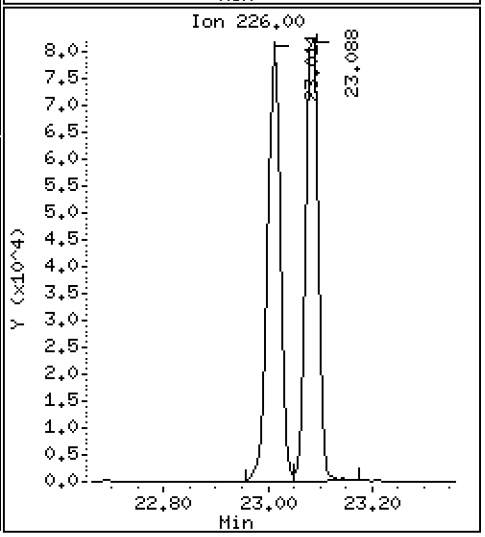


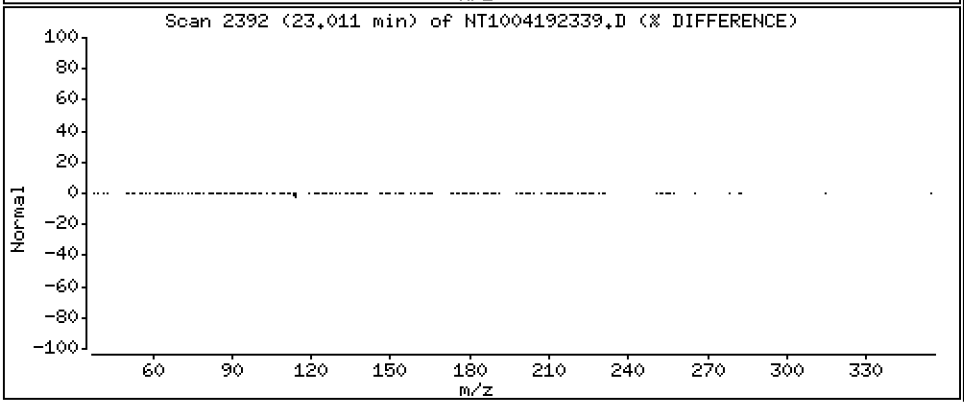












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

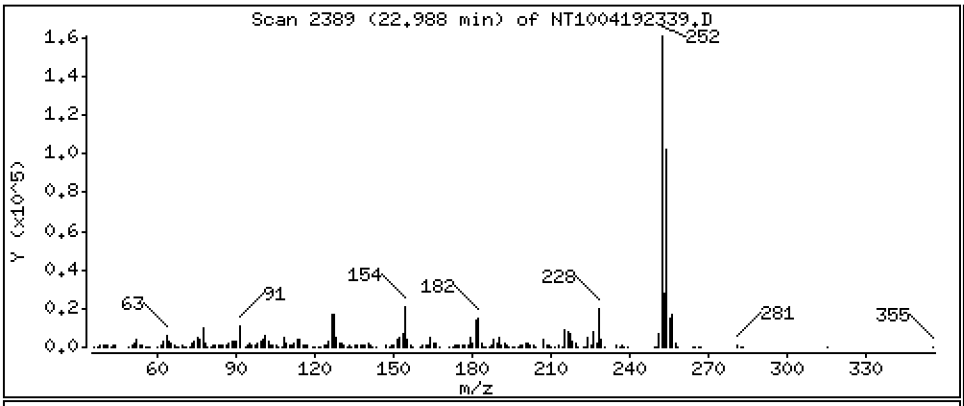
Operator: VTS

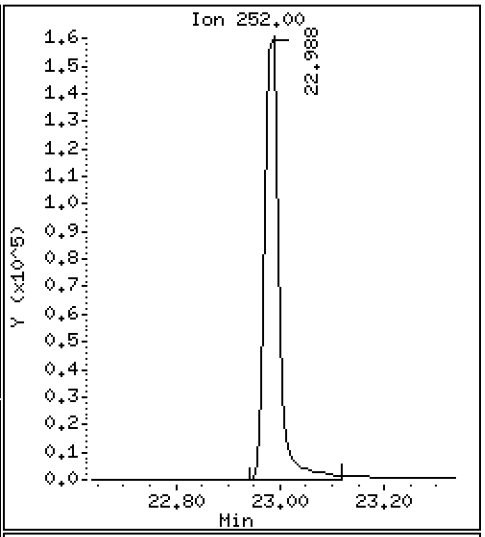
Column phase: ZB-5msi

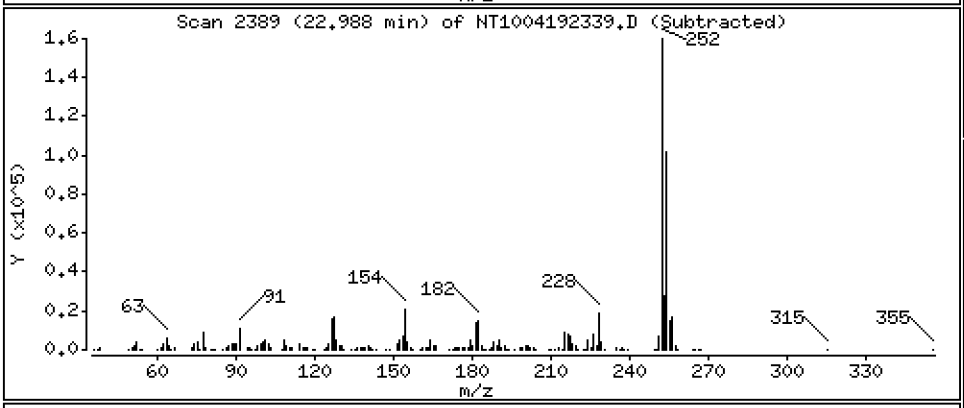
Column diameter: 0.25

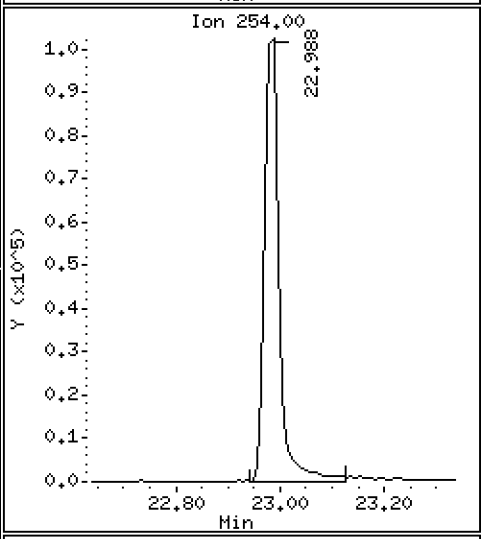
70 3,3'-Dichlorobenzidine

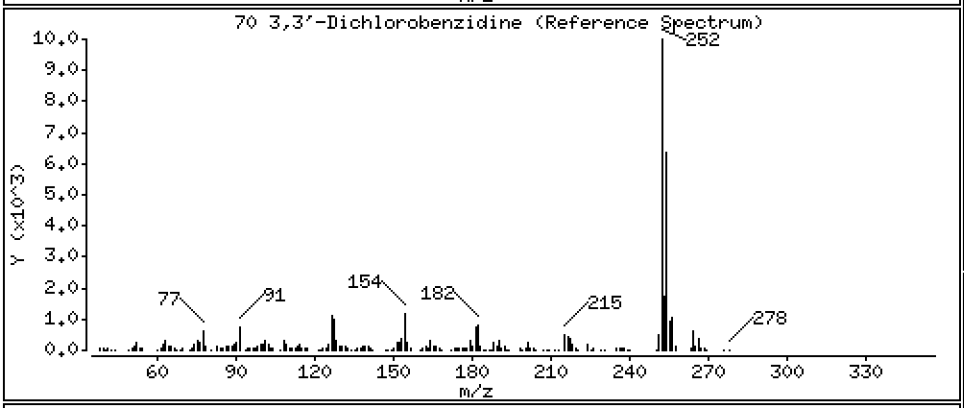
Concentration: 5.971 ug/mL

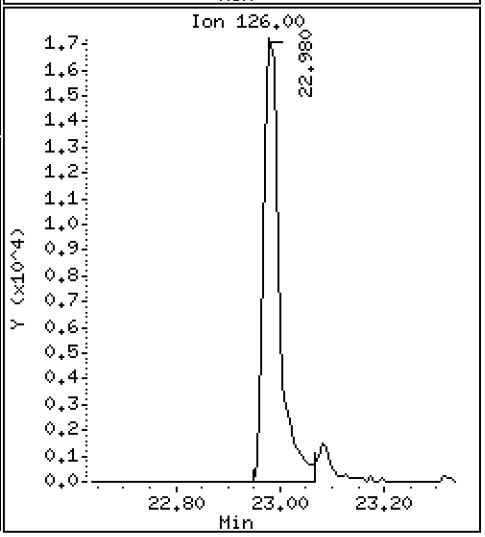


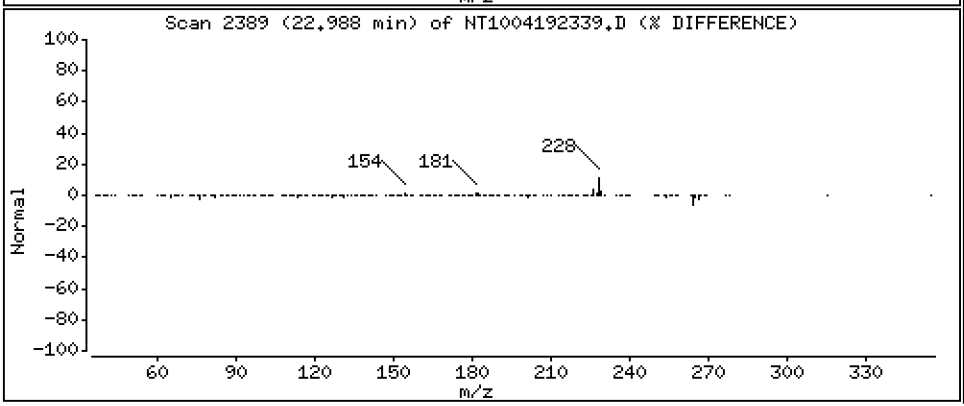












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

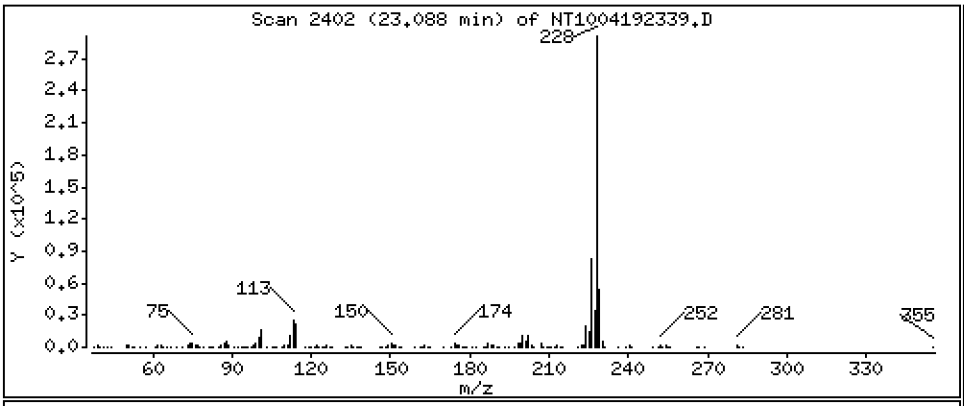
Operator: VTS

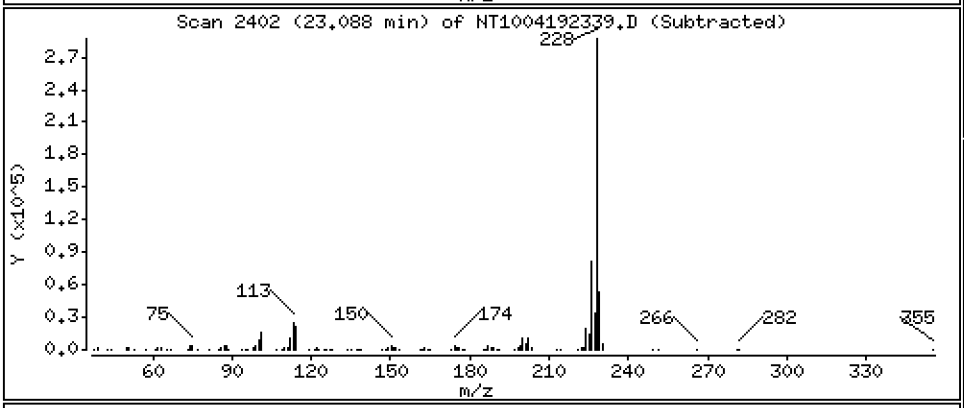
Column phase: ZB-5msi

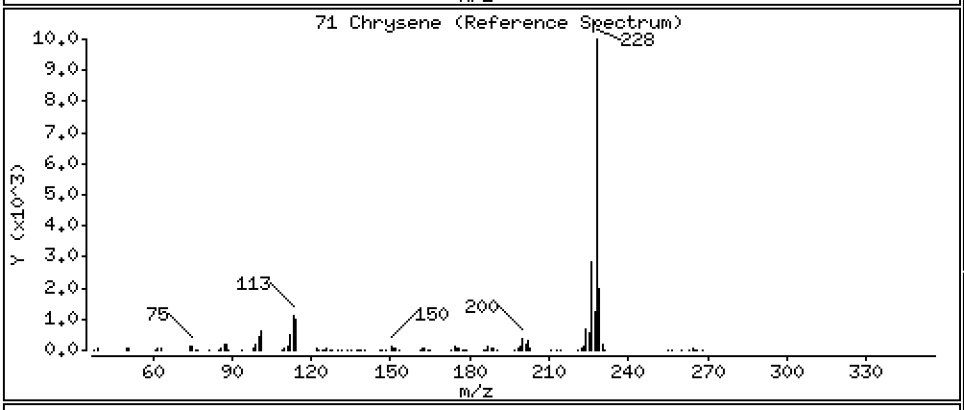
Column diameter: 0.25

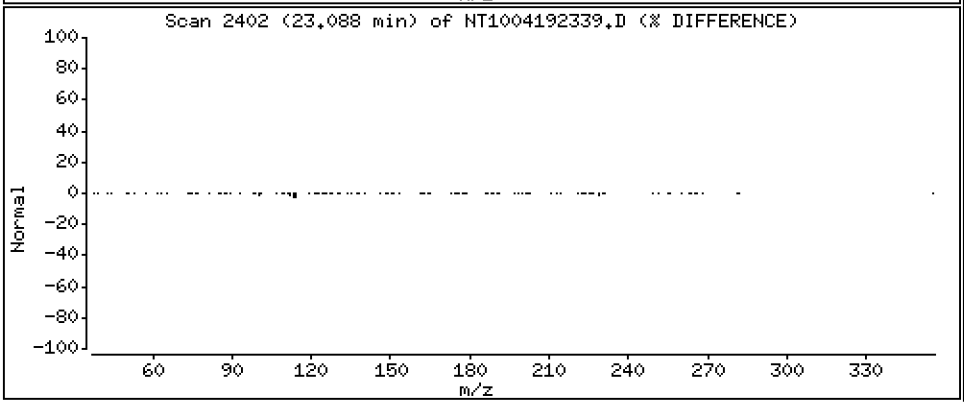
71 Chrysene

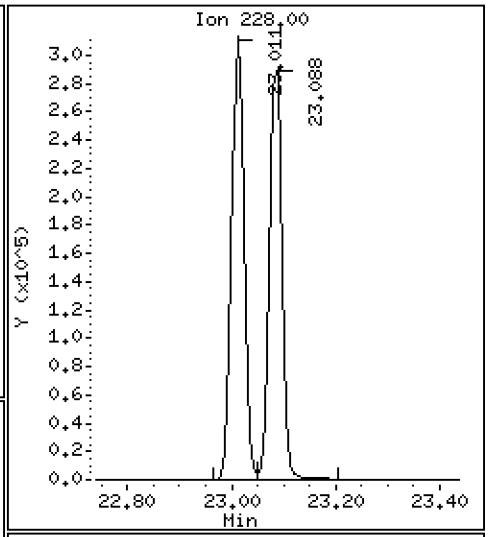
Concentration: 3.037 ug/mL

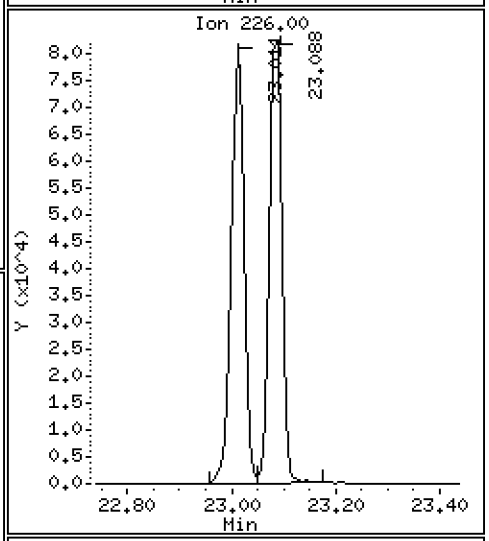


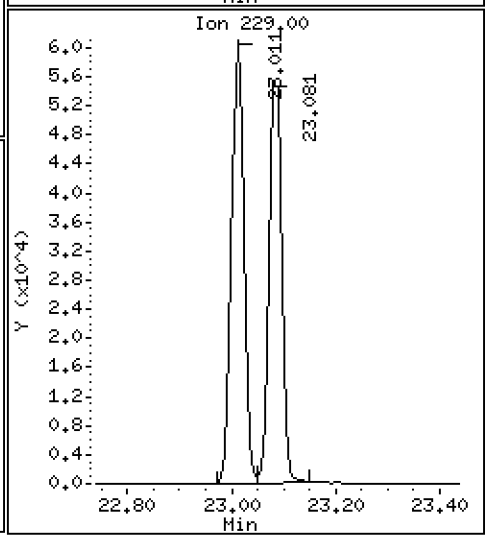












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

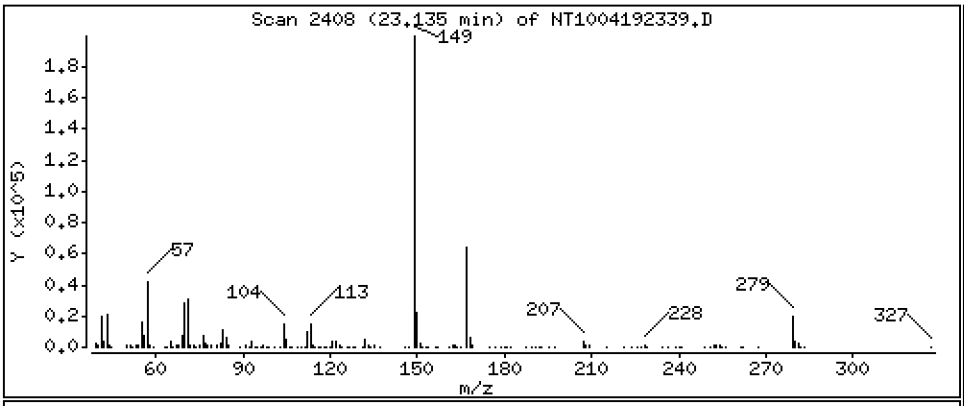
Operator: VTS

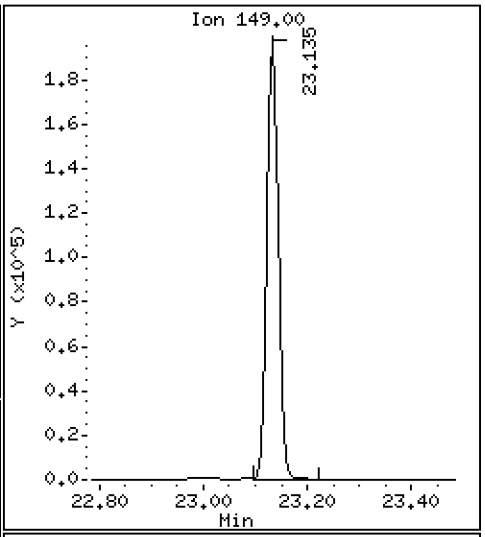
Column phase: ZB-5msi

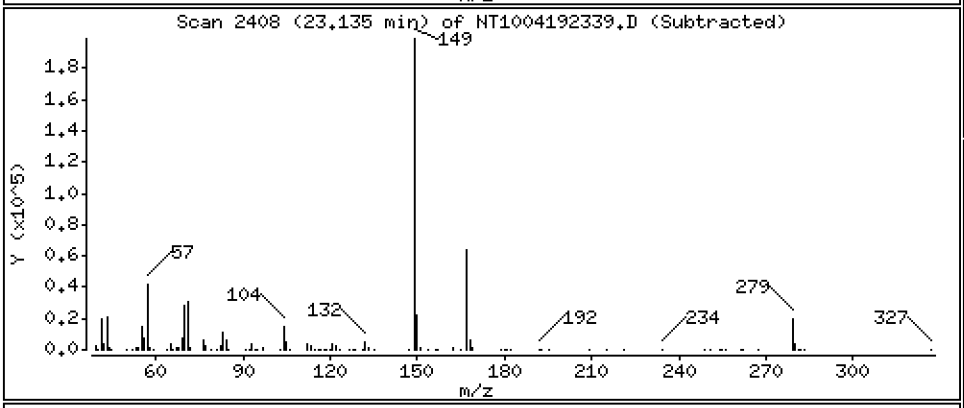
Column diameter: 0.25

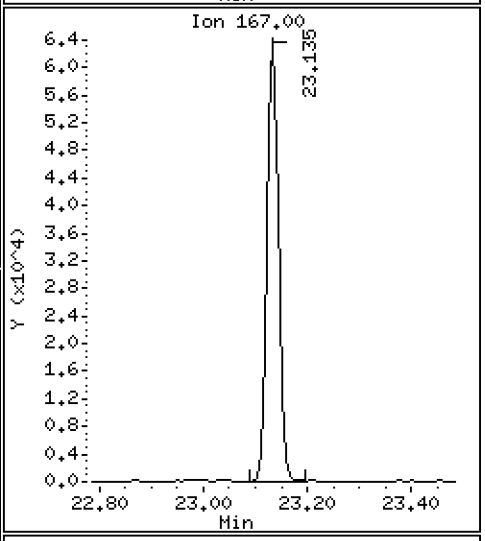
72 bis(2-Ethylhexyl)phthalate

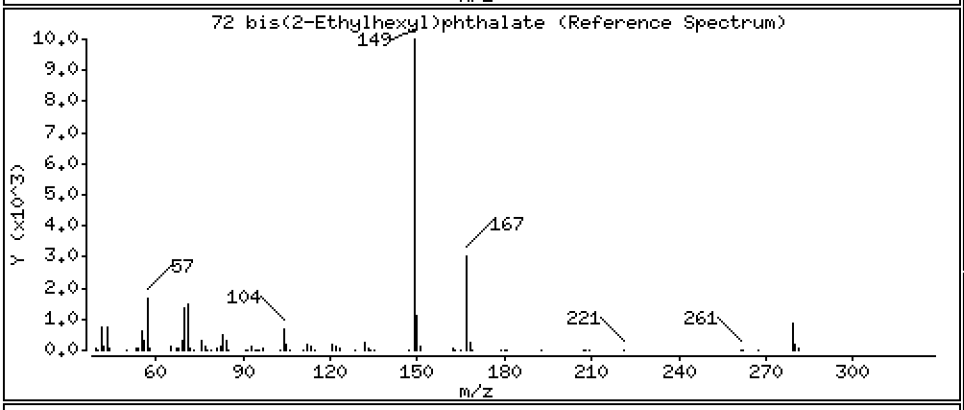
Concentration: 3.282 ug/mL

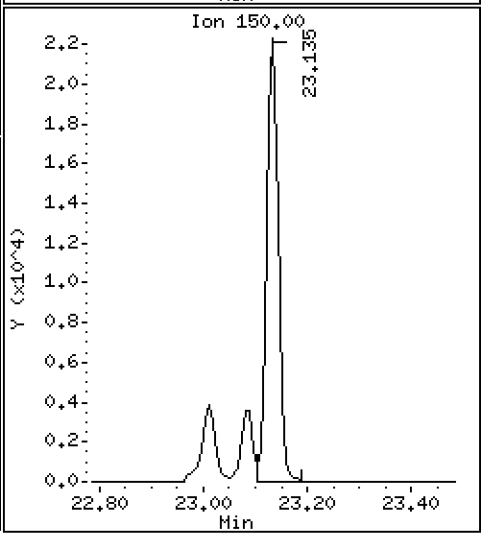


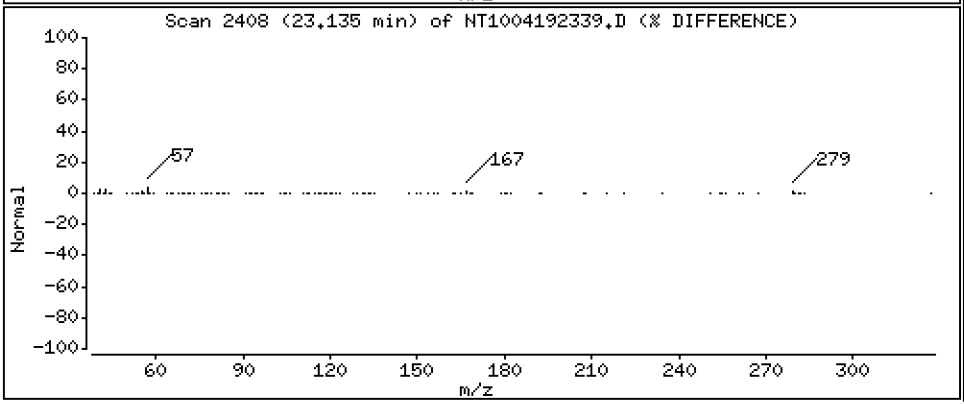












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

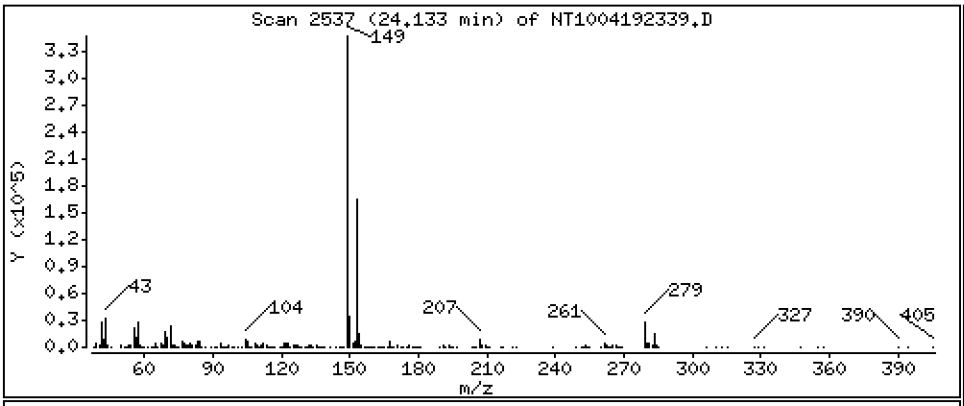
Operator: VTS

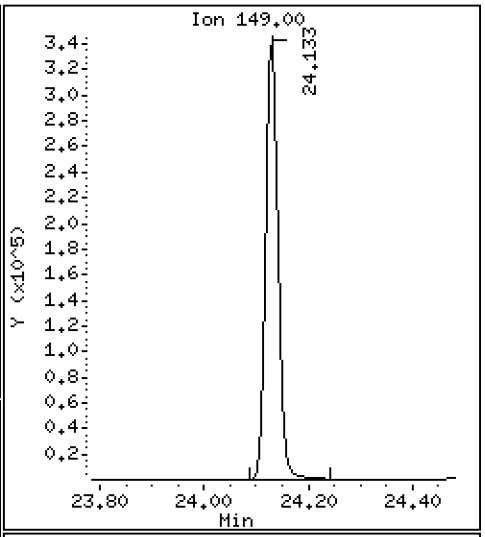
Column phase: ZB-5msi

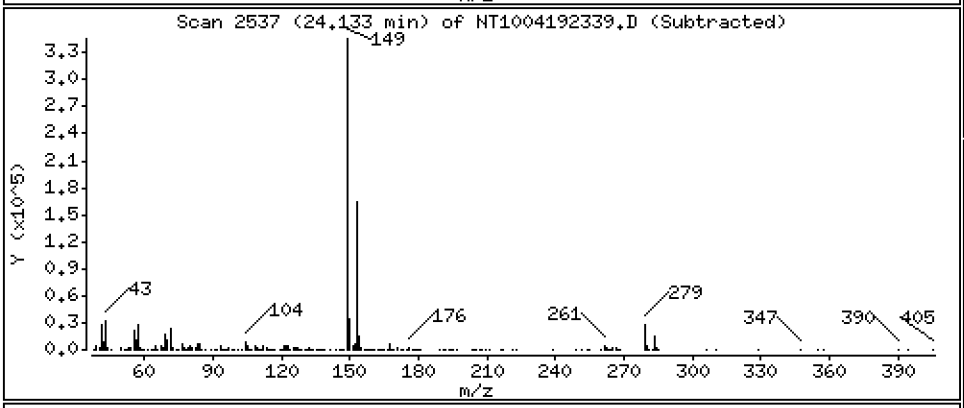
Column diameter: 0.25

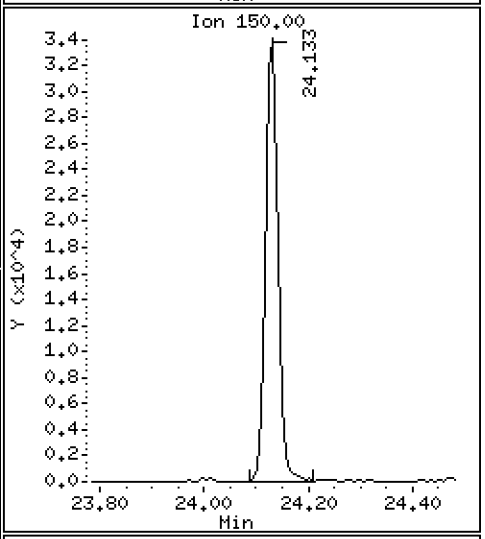
73 Di-n-octylphthalate

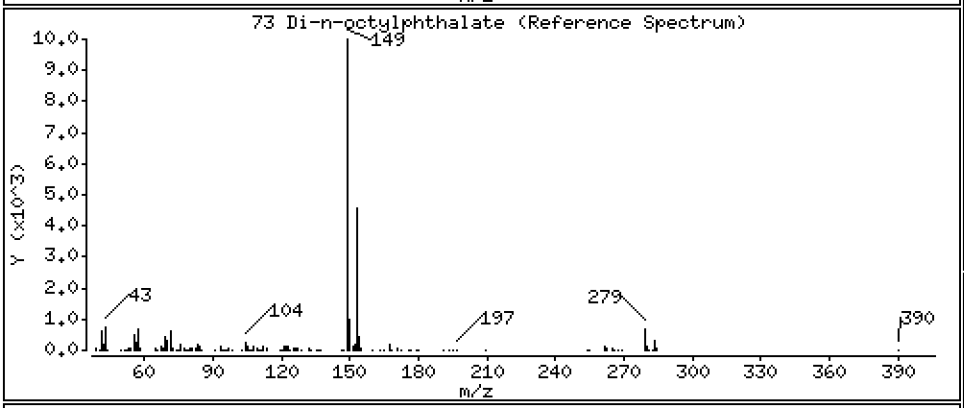
Concentration: 3.498 ug/mL

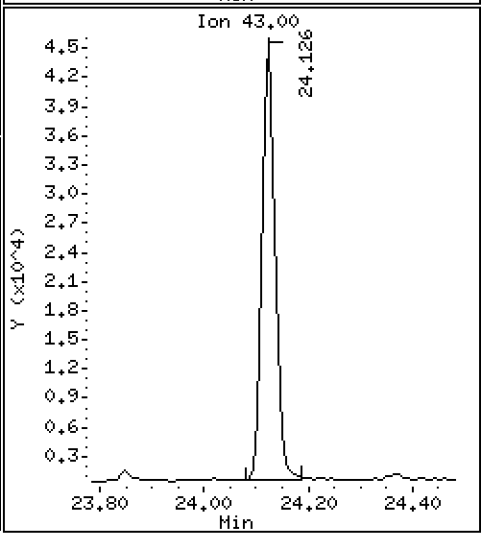


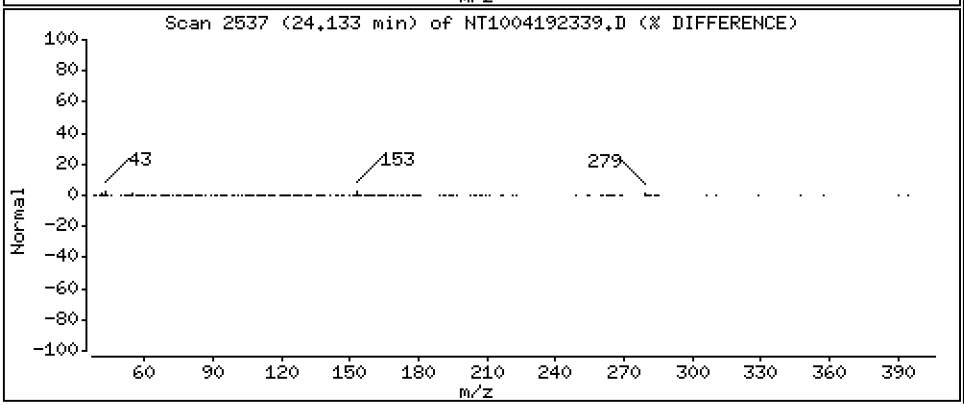












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

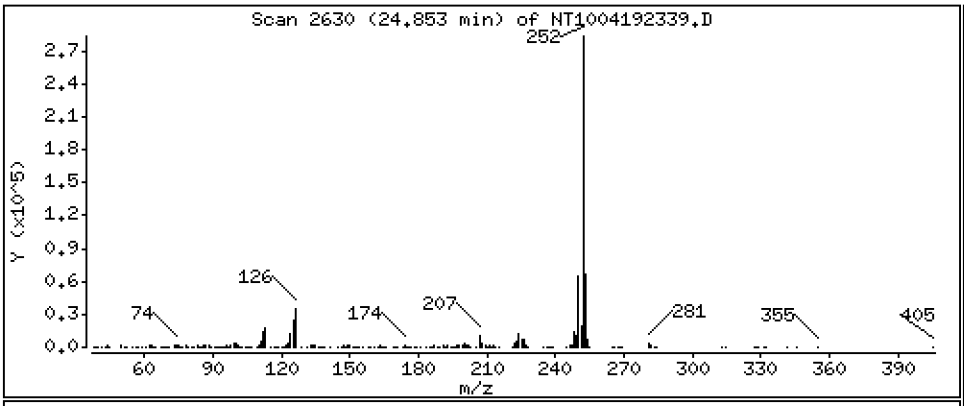
Operator: VTS

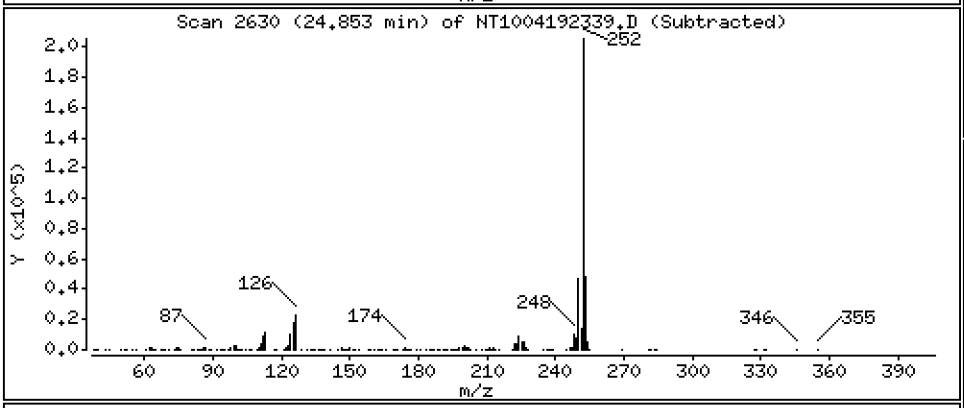
Column phase: ZB-5msi

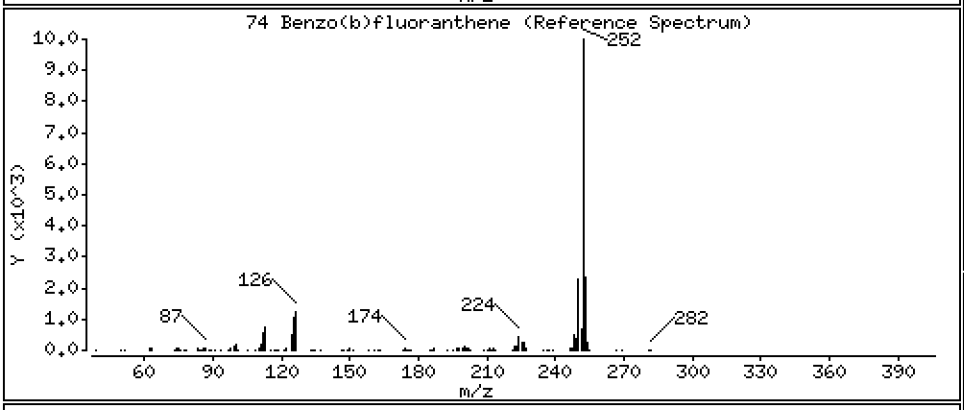
Column diameter: 0.25

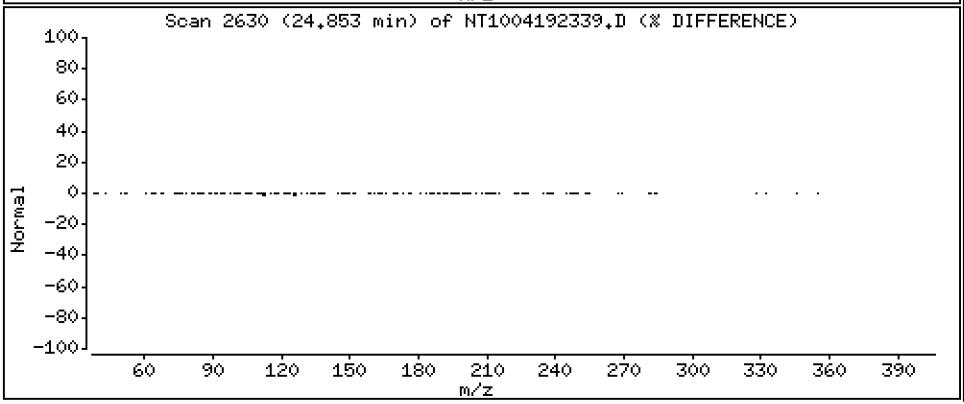
74 Benzo(b)fluoranthene

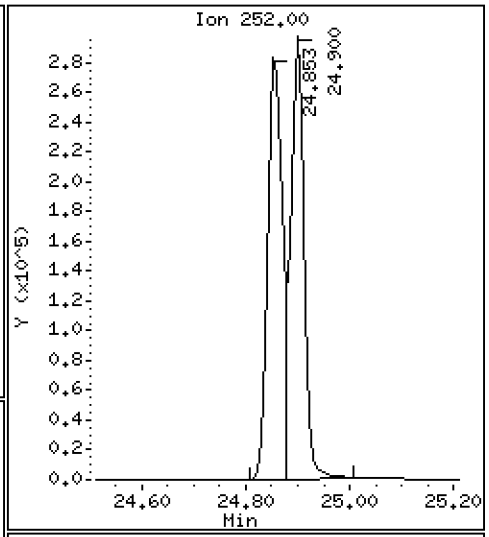
Concentration: 3.584 ug/mL

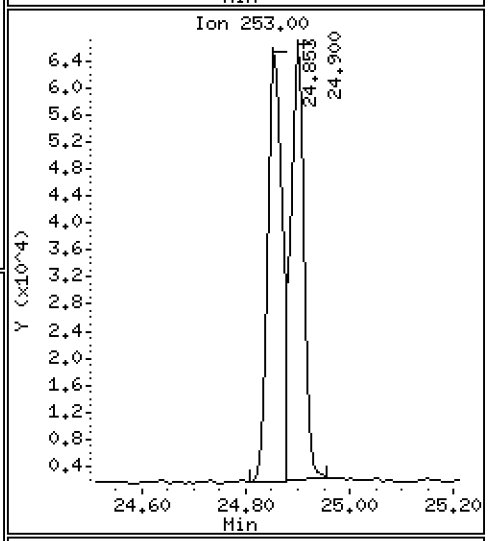


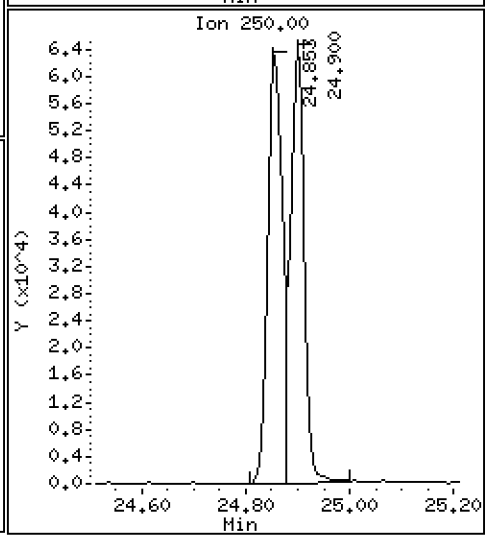












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

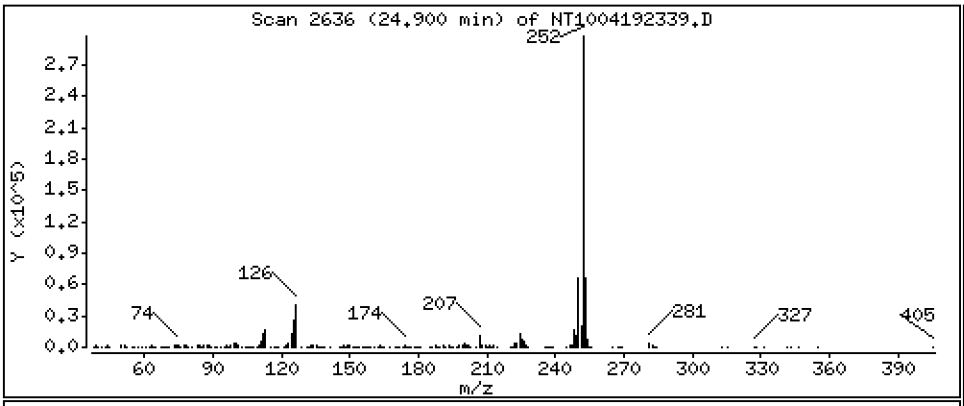
Operator: VTS

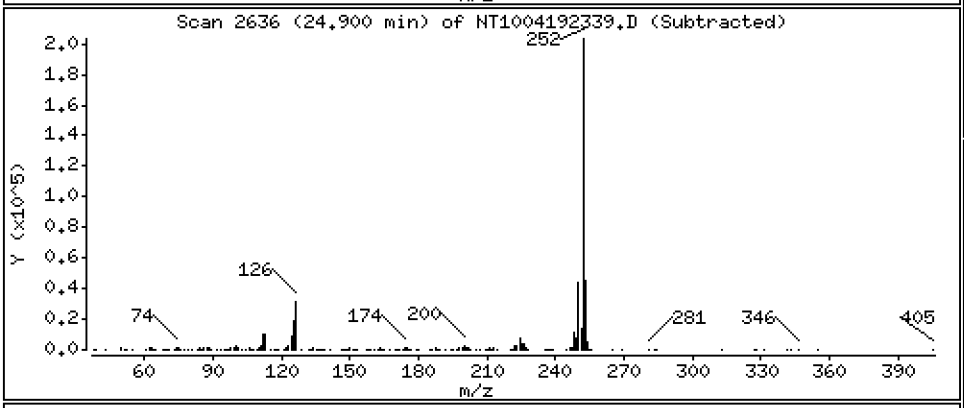
Column phase: ZB-5msi

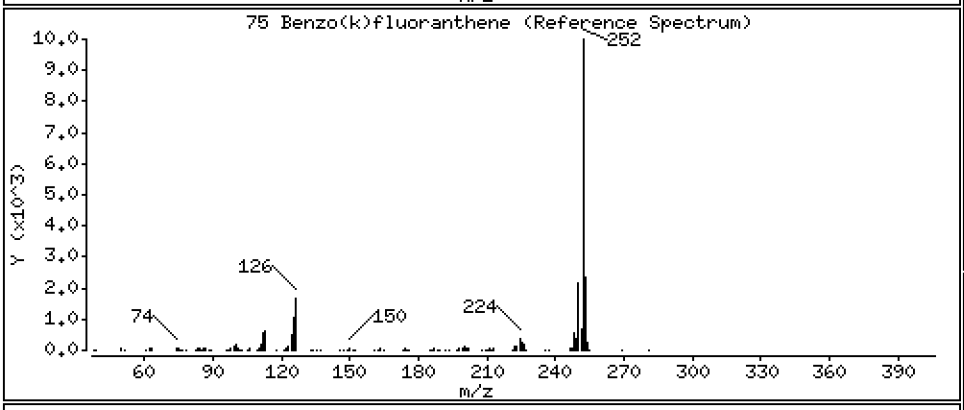
Column diameter: 0.25

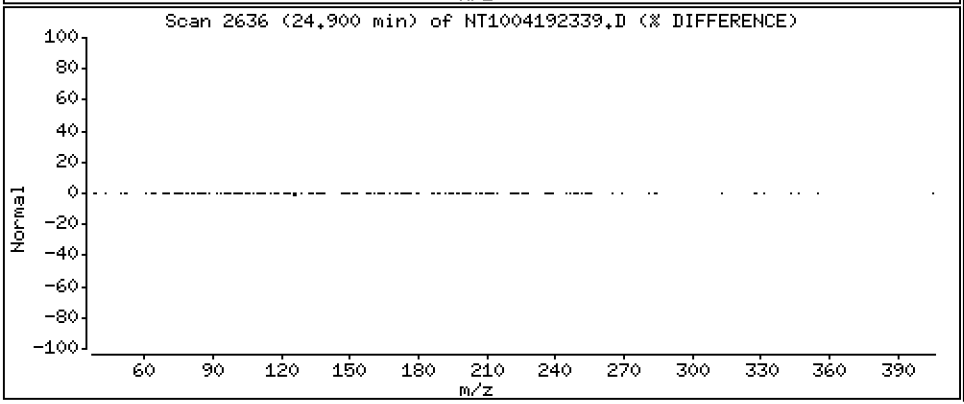
75 Benzo(k)fluoranthene

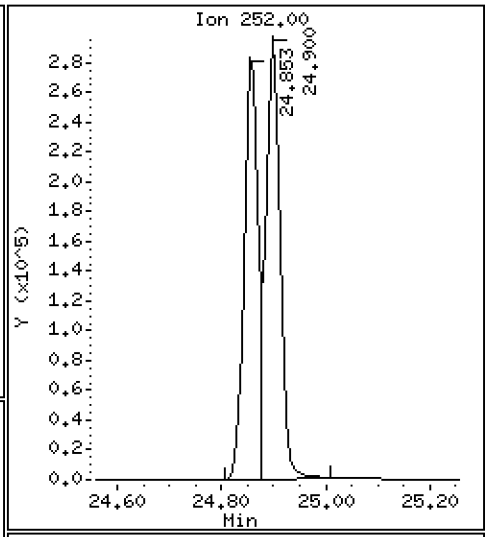
Concentration: 3.745 ug/mL

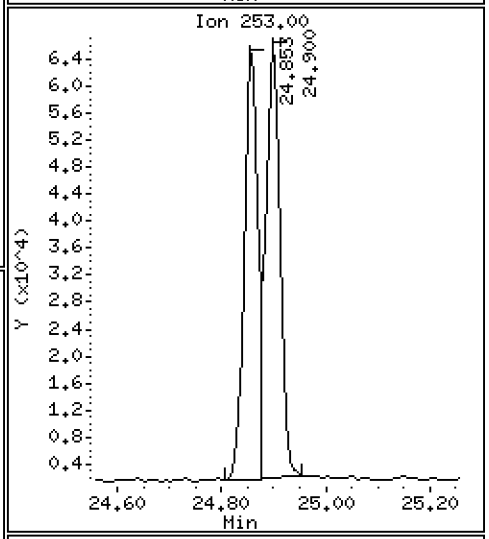


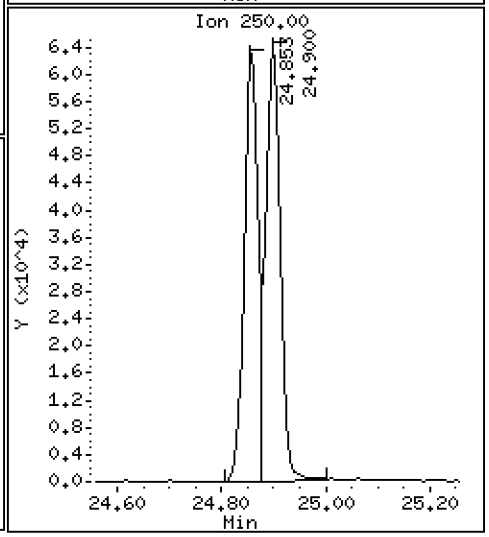












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

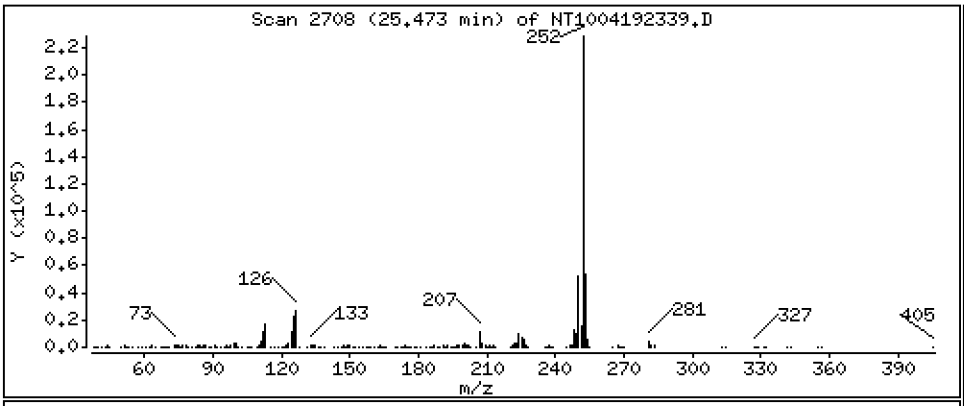
Operator: VTS

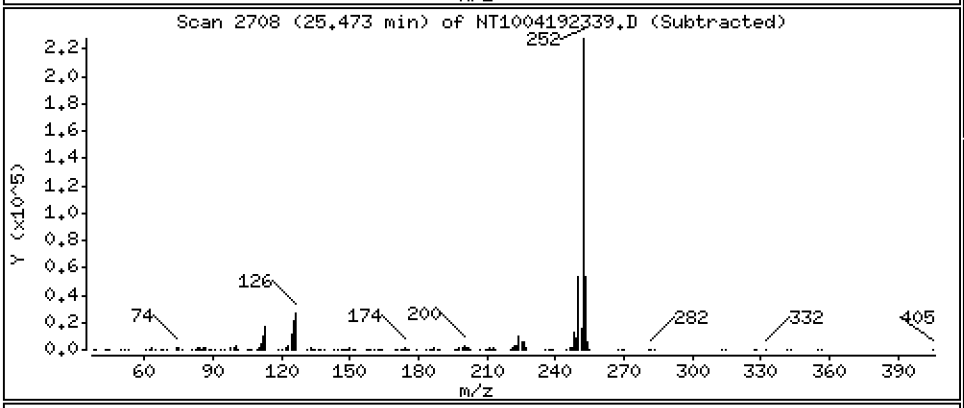
Column phase: ZB-5msi

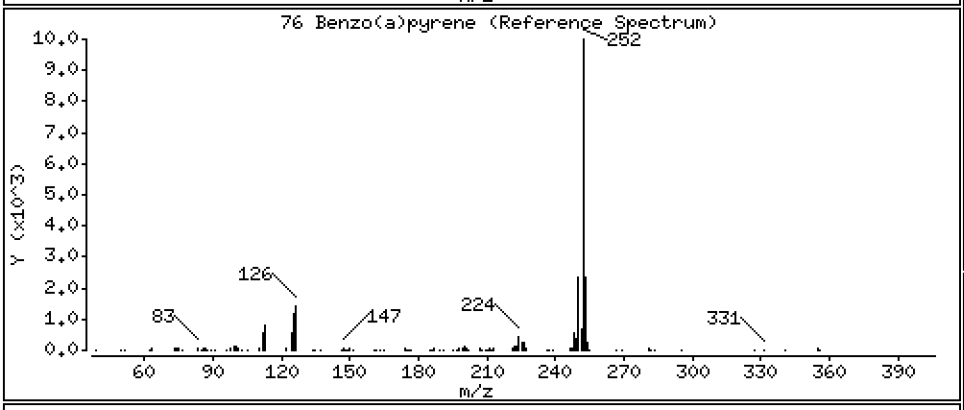
Column diameter: 0.25

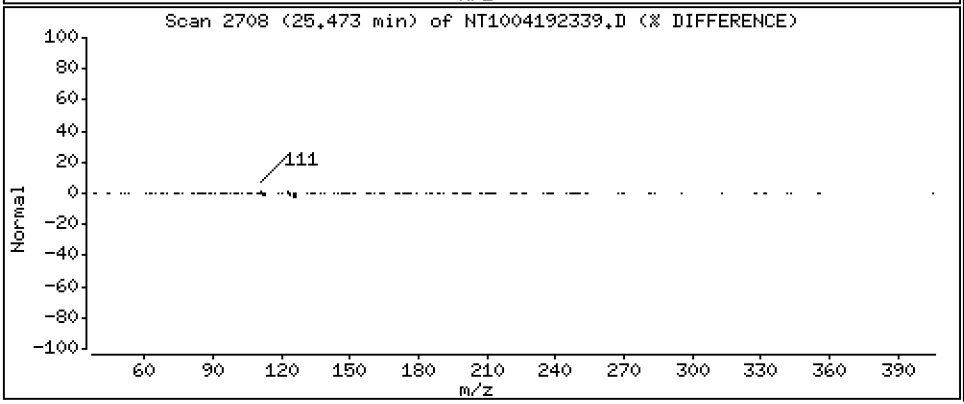
76 Benzo(a)pyrene

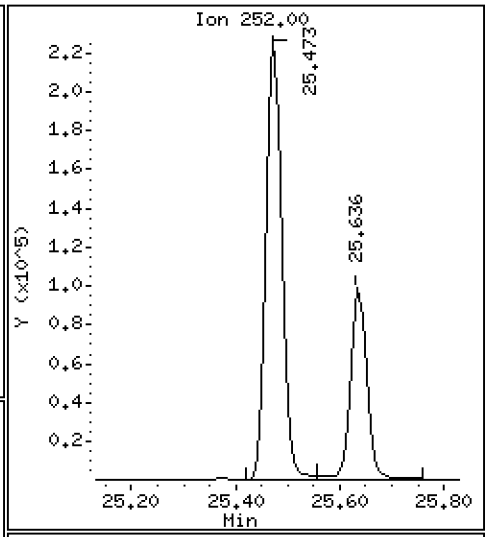
Concentration: 3.381 ug/mL

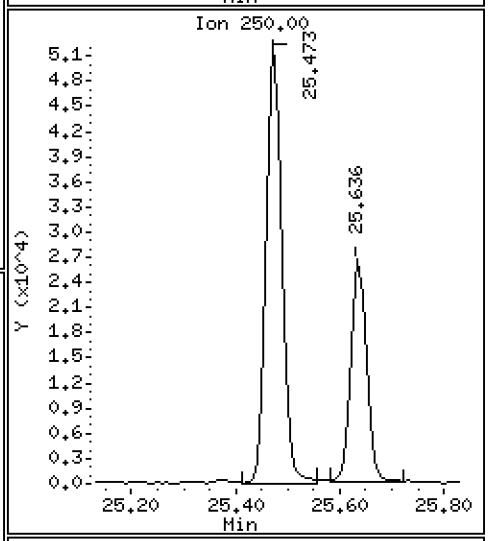


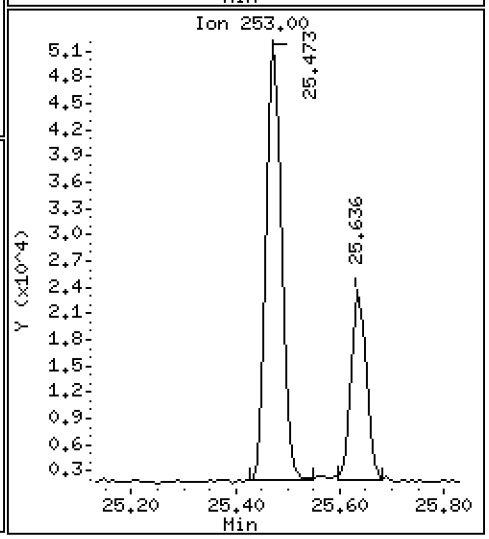












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Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

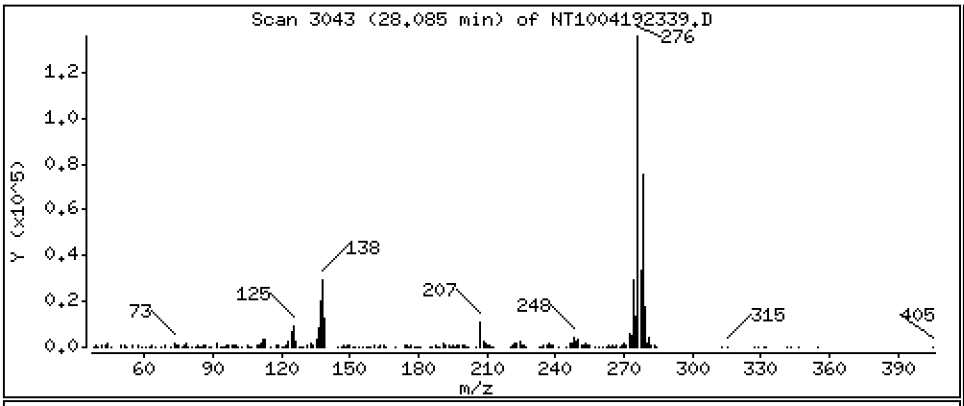
Operator: VTS

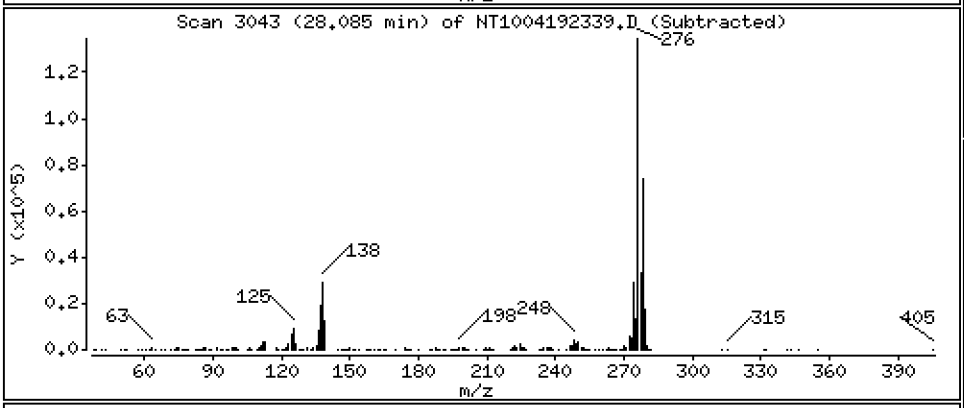
Column phase: ZB-5msi

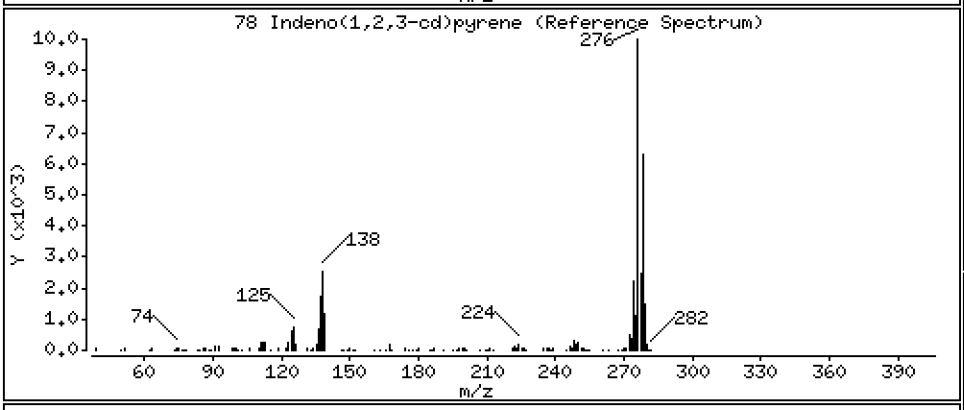
Column diameter: 0.25

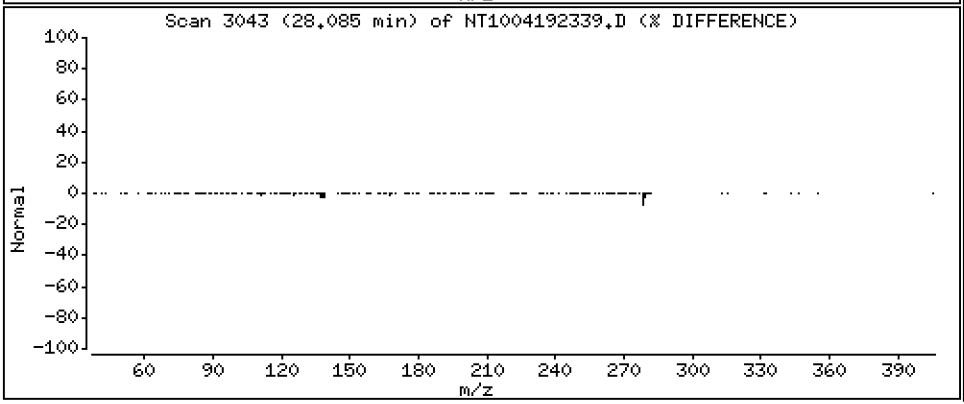
78 Indeno(1,2,3-cd)pyrene

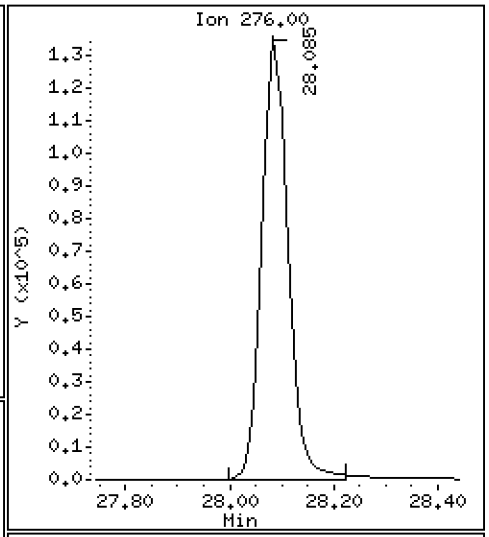
Concentration: 2.723 ug/mL

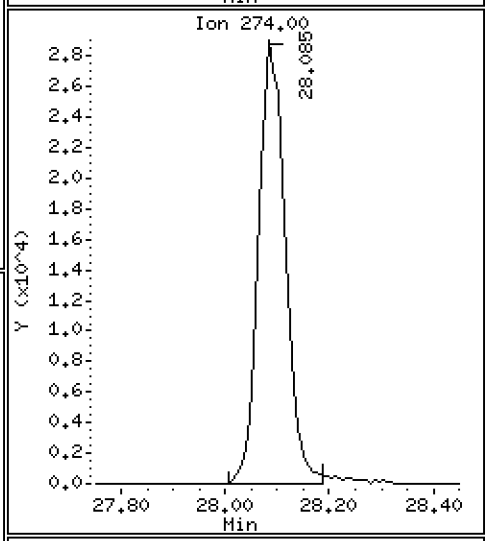


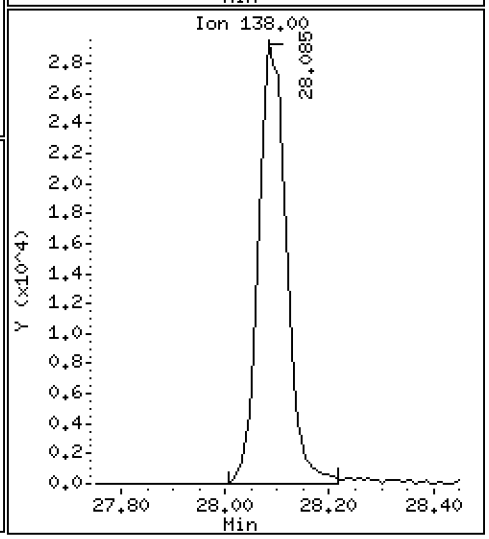












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192339.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

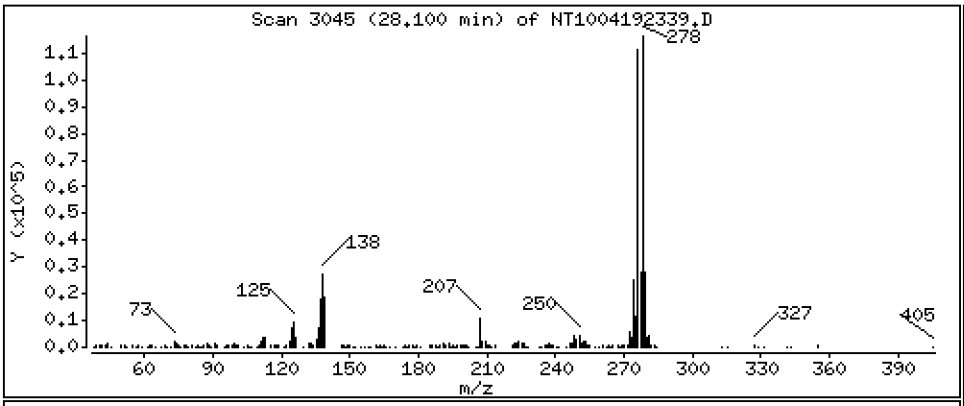
Operator: VTS

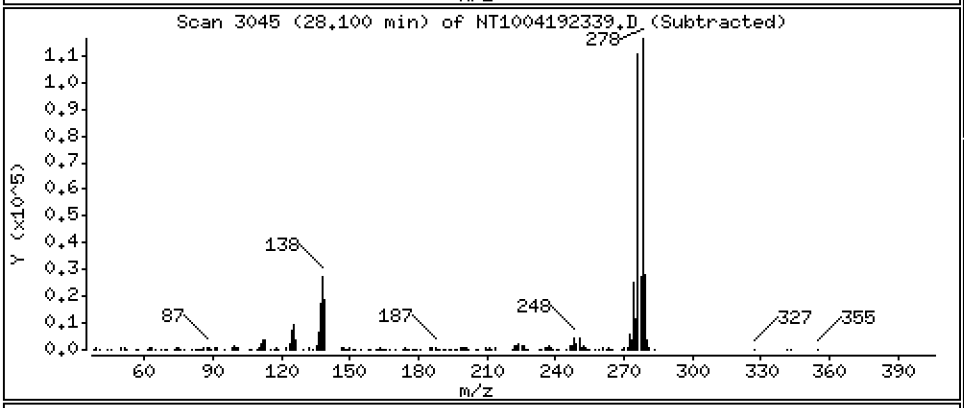
Column phase: ZB-5msi

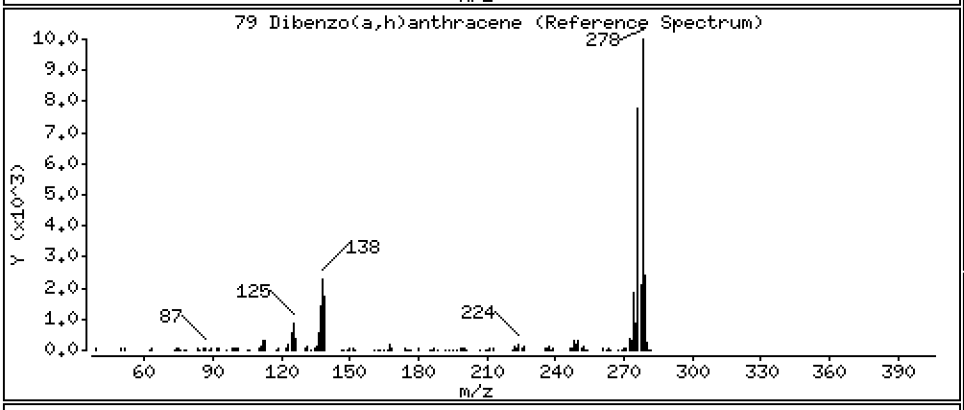
Column diameter: 0.25

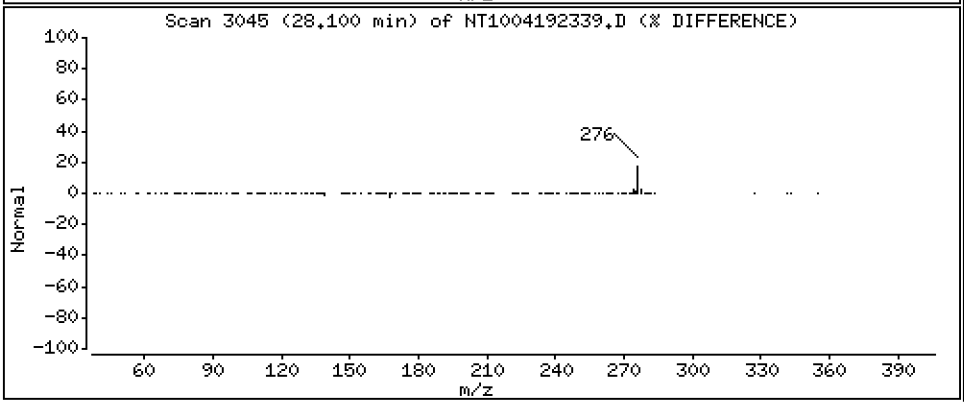
79 Dibenzo(a,h)anthracene

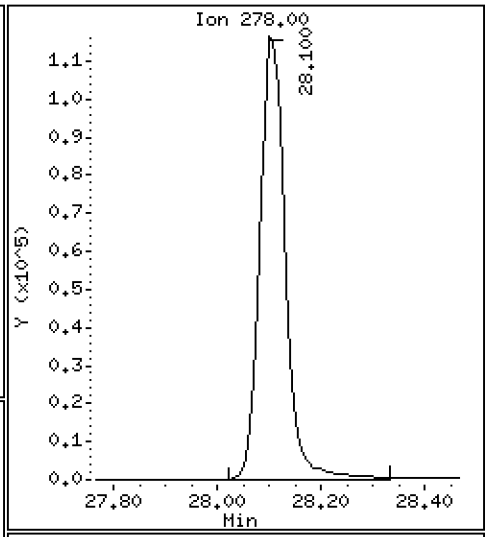
Concentration: 2.738 ug/mL

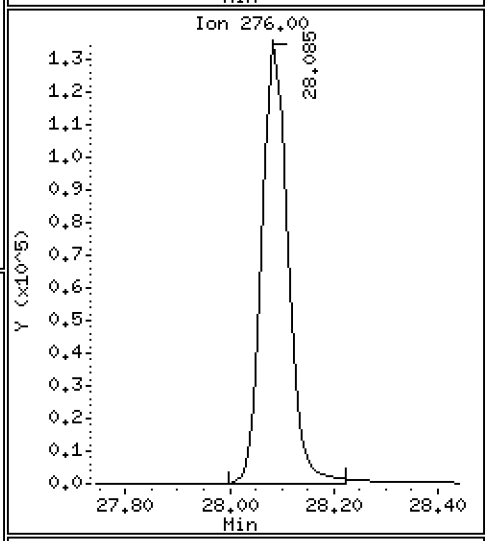


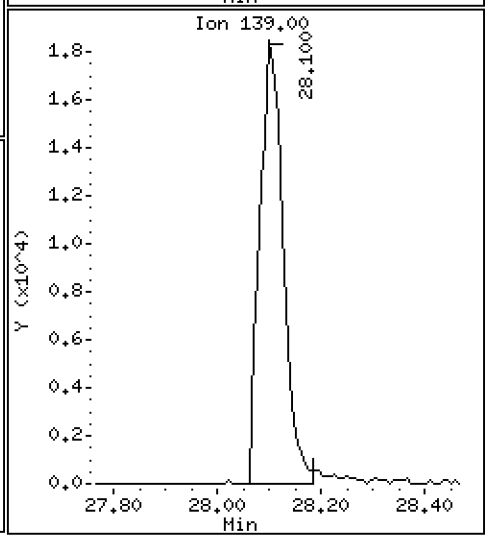












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192339.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

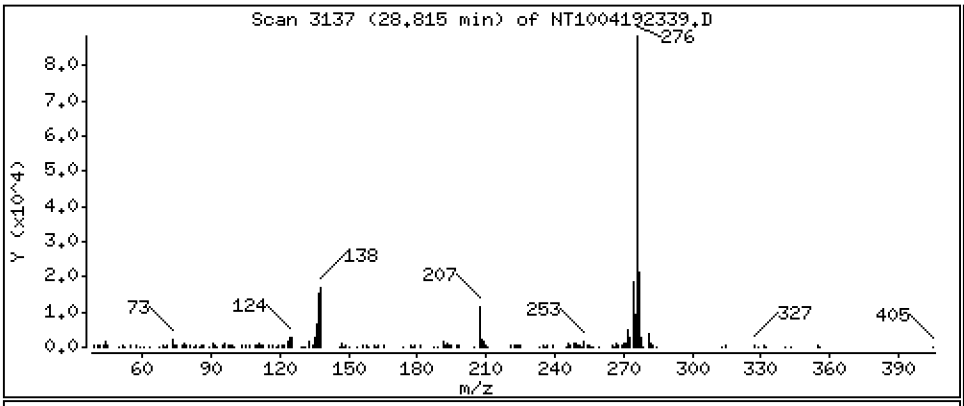
Operator: VTS

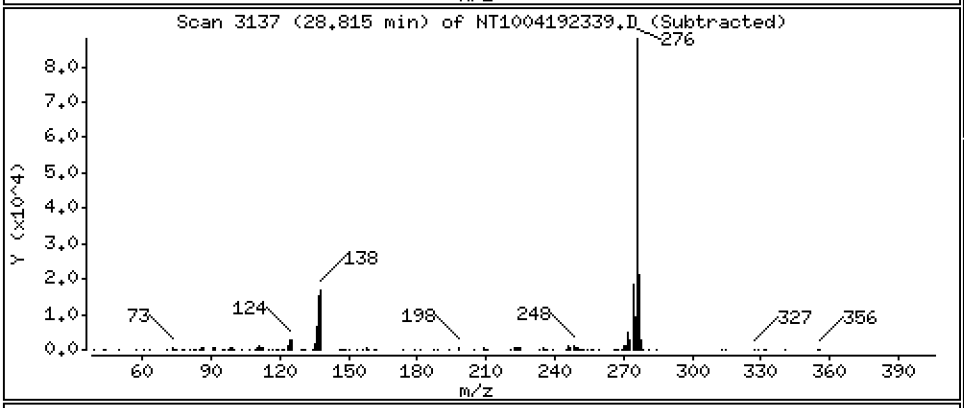
Column phase: ZB-5msi

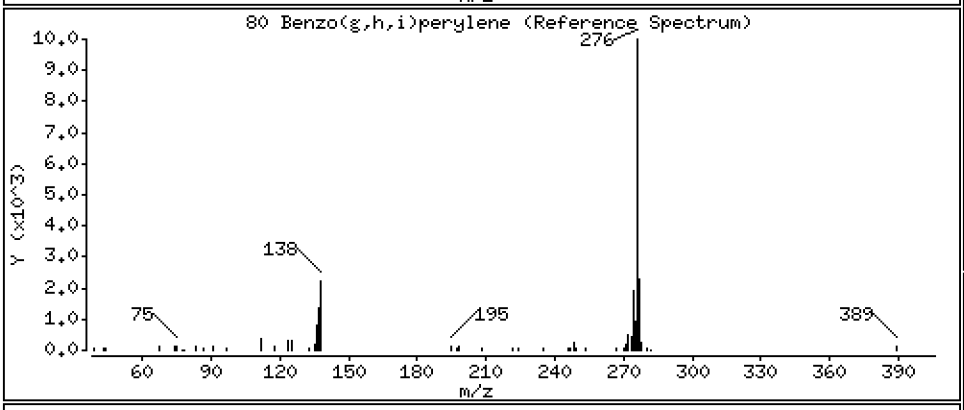
Column diameter: 0.25

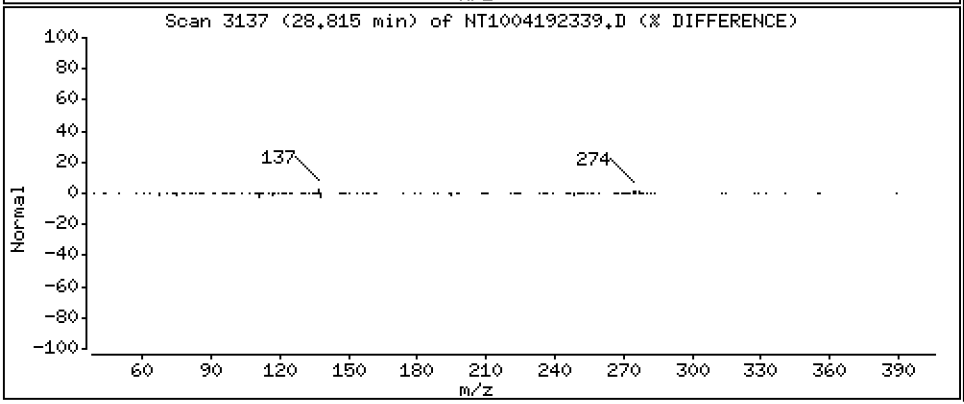
80 Benzo(g,h,i)perylene

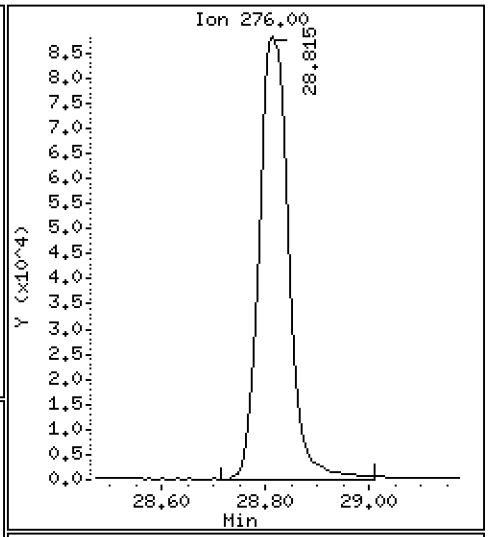
Concentration: 2.325 ug/mL

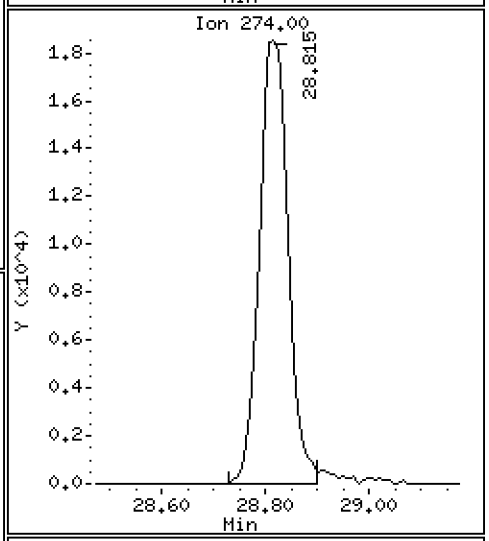


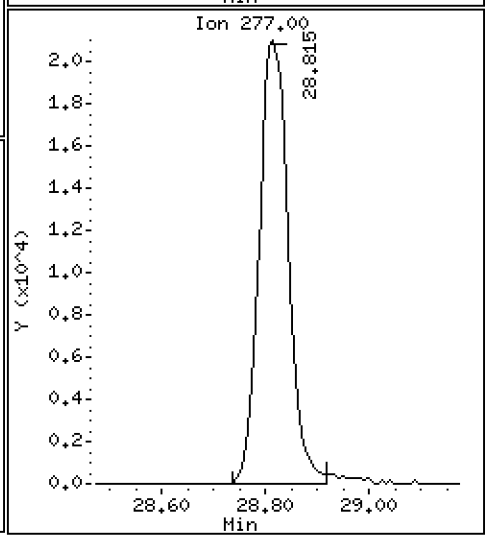












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192339.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

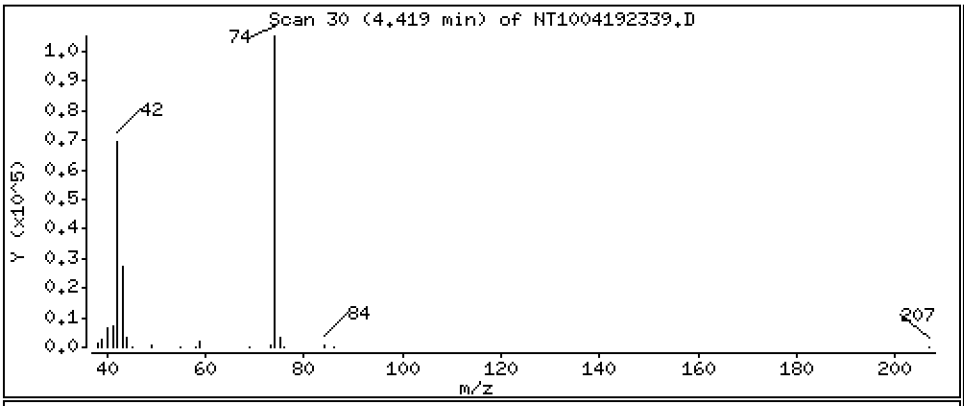
Operator: VTS

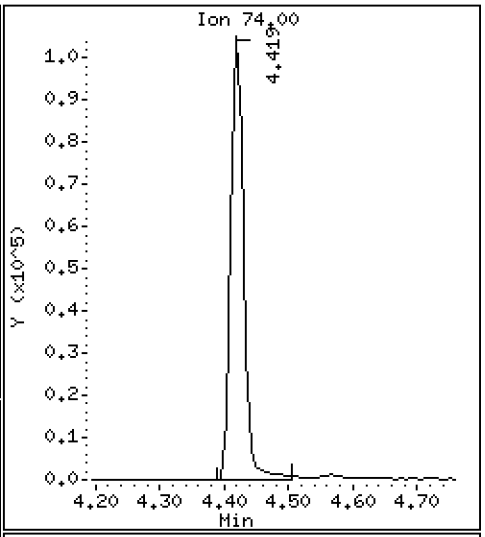
Column phase: ZB-5msi

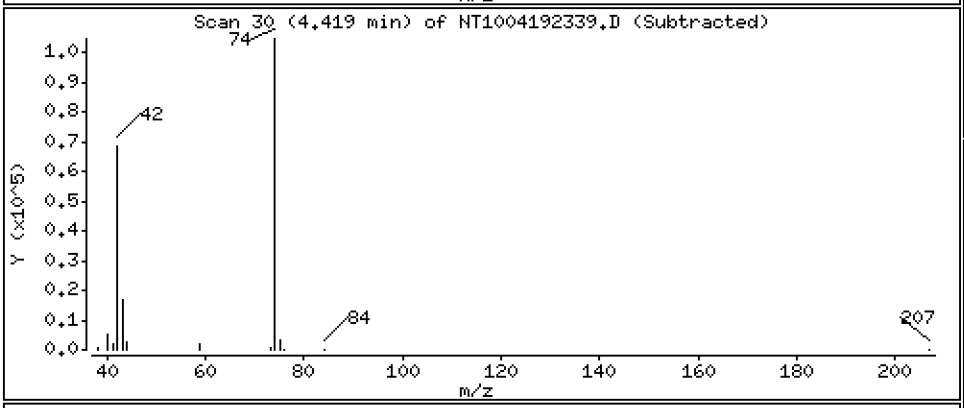
Column diameter: 0.25

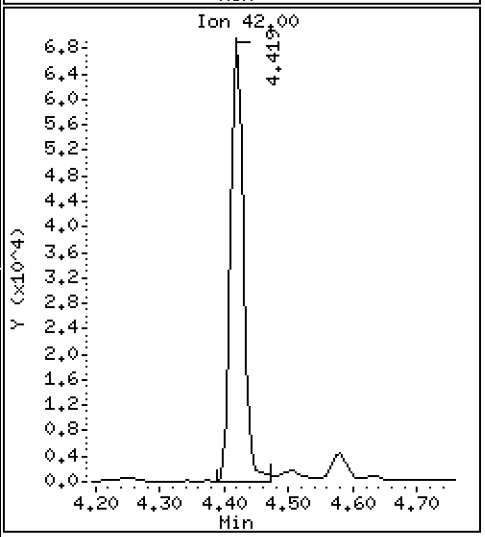
90 N-Nitrosodimethylamine

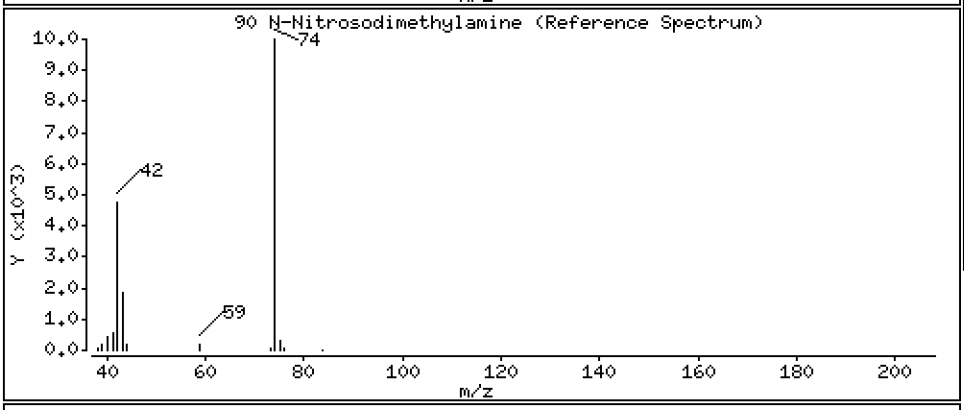
Concentration: 6.408 ug/mL

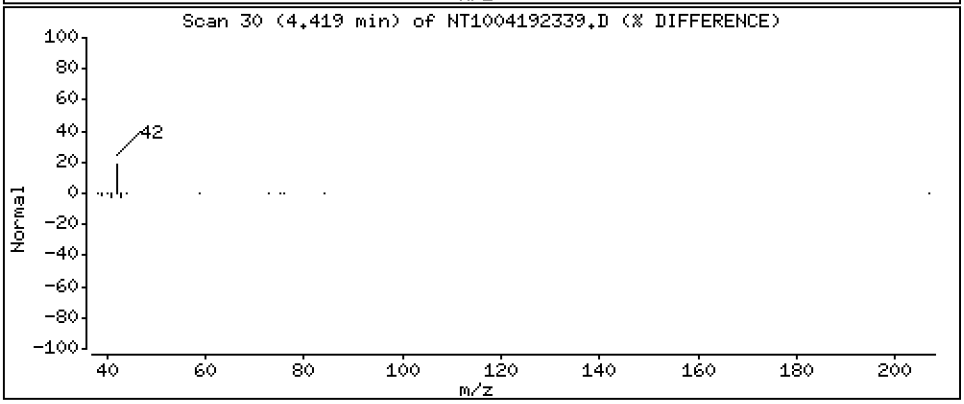












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192339.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

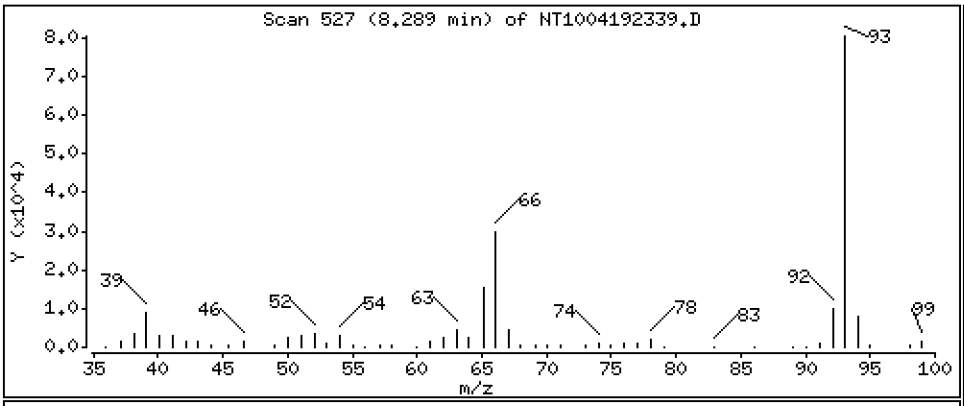
Operator: VTS

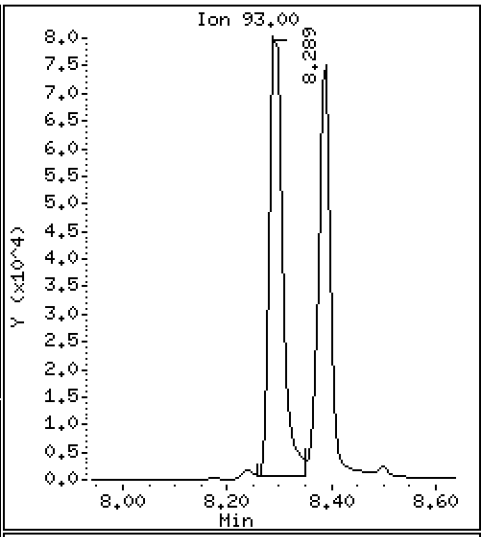
Column phase: ZB-5msi

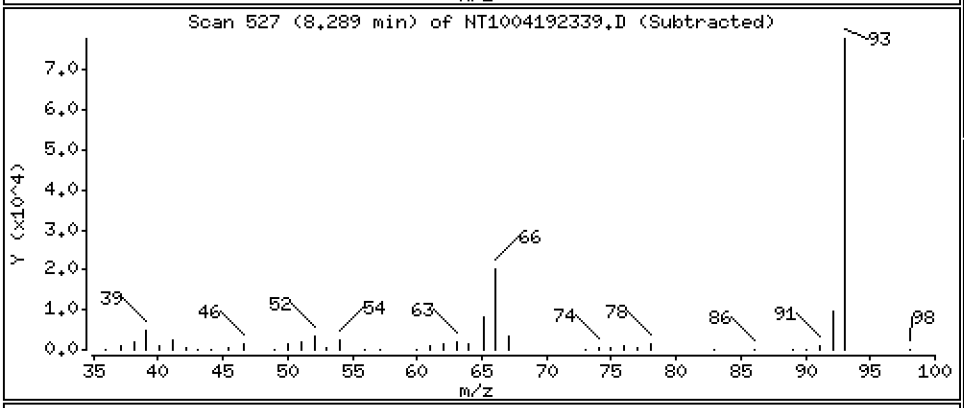
Column diameter: 0.25

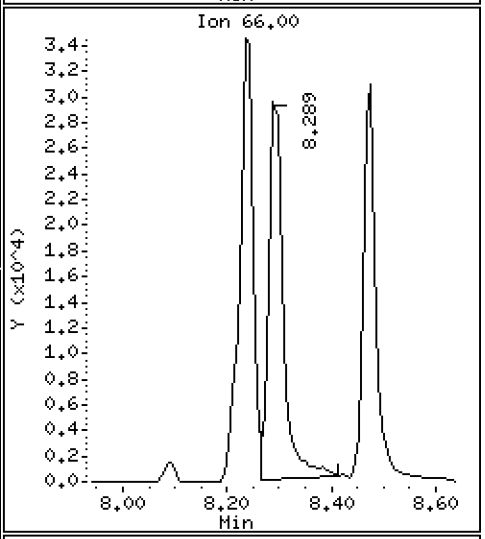
91 Aniline

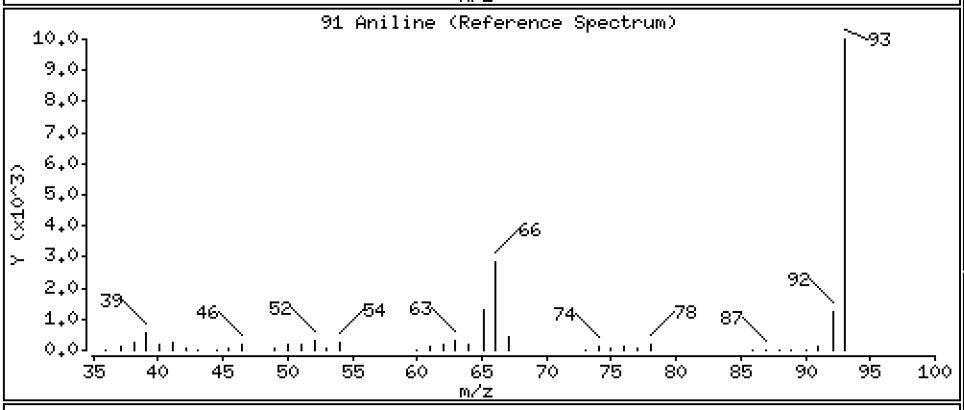
Concentration: 2.752 ug/mL

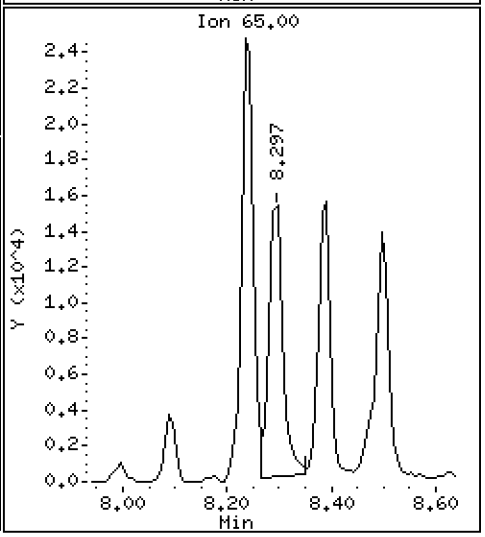


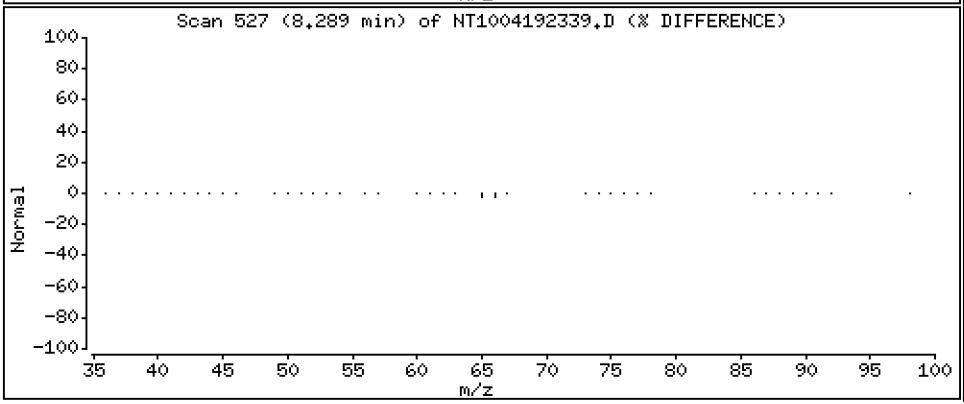












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192339.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

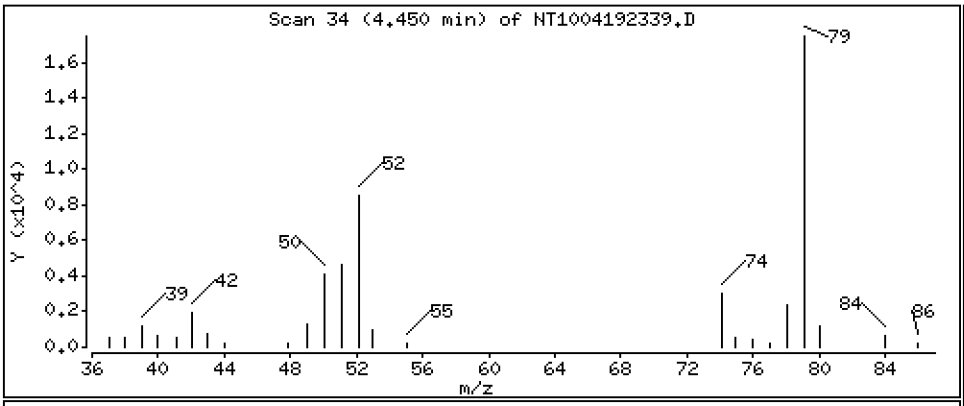
Operator: VTS

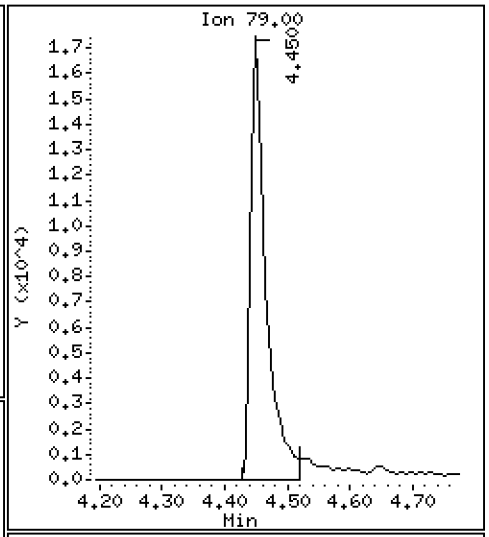
Column phase: ZB-5msi

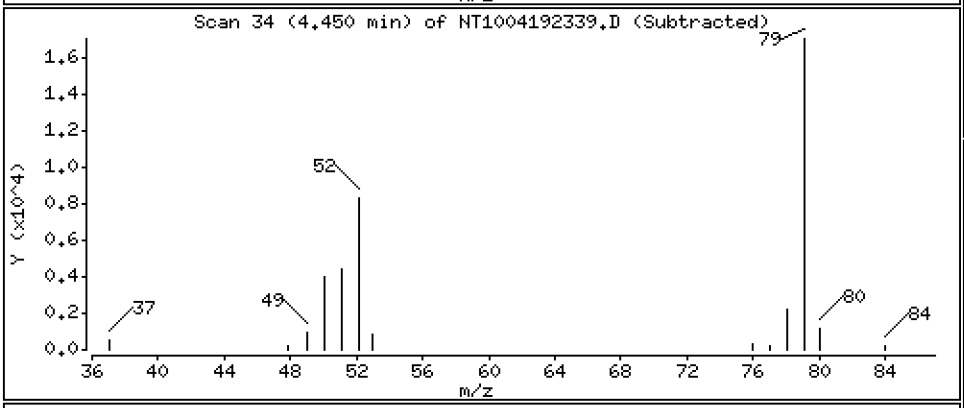
Column diameter: 0.25

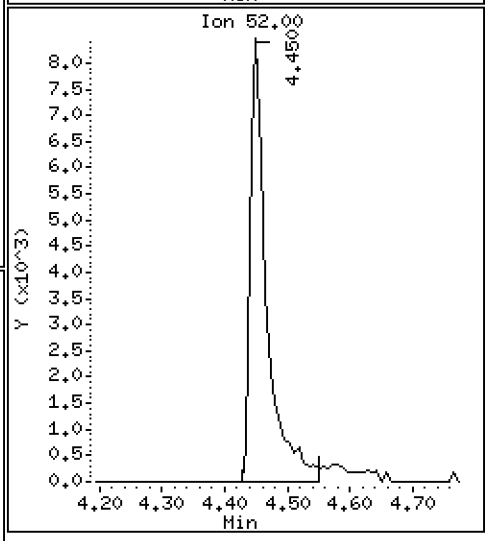
103 Pyridine

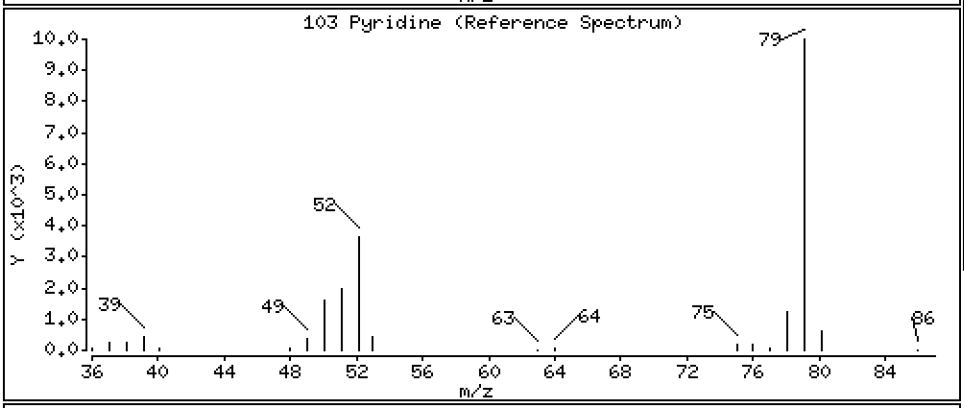
Concentration: 0.8816 ug/mL

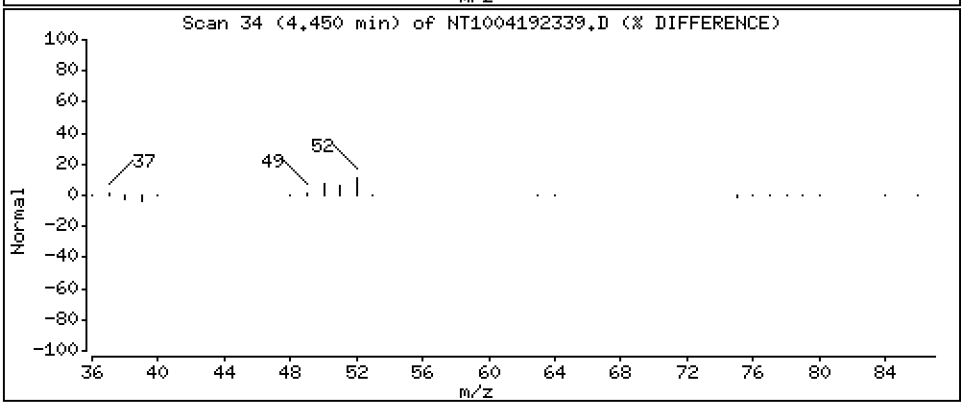












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192339.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

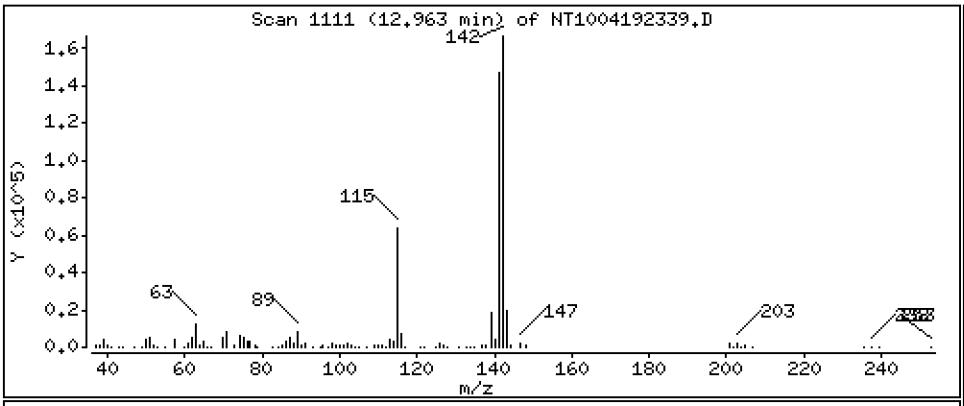
Operator: VTS

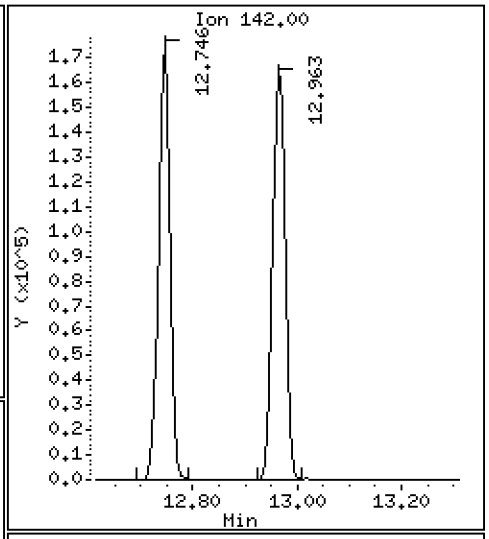
Column phase: ZB-5msi

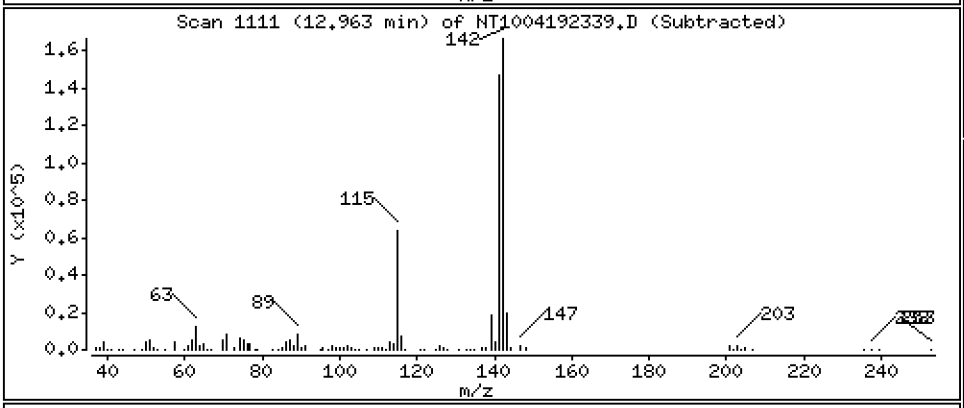
Column diameter: 0.25

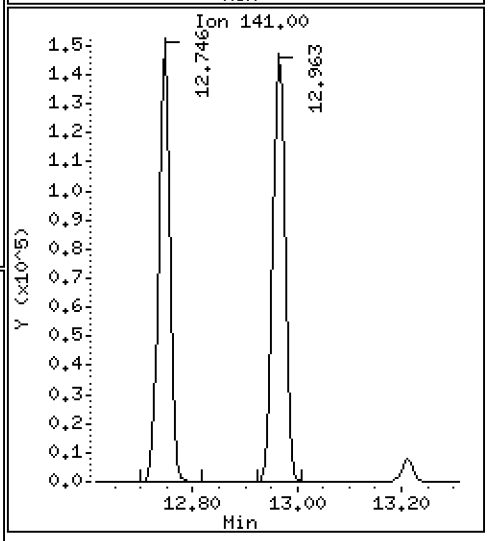
105 1-methylnaphthalene

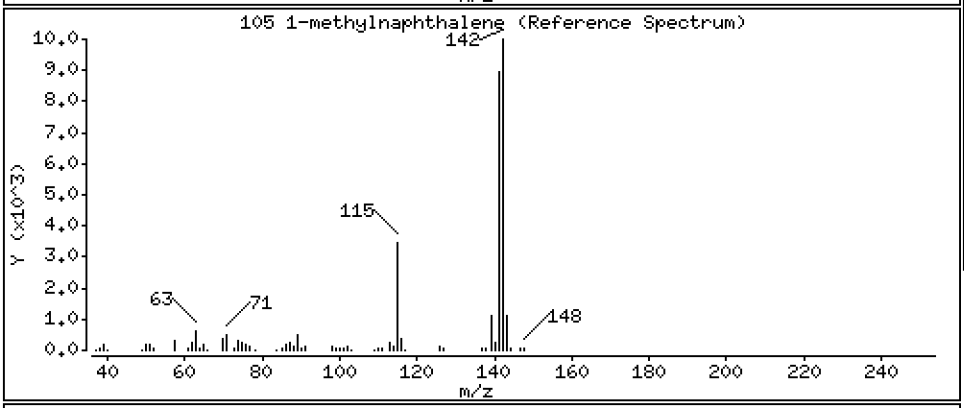
Concentration: 3.492 ug/mL

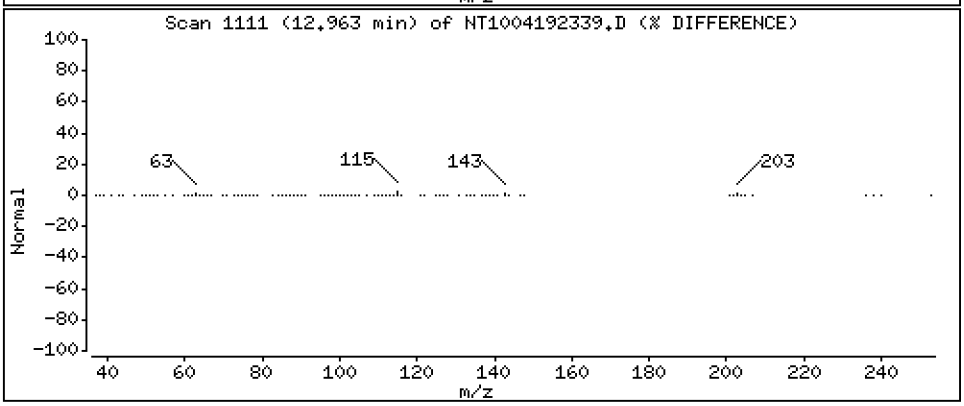












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192339.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

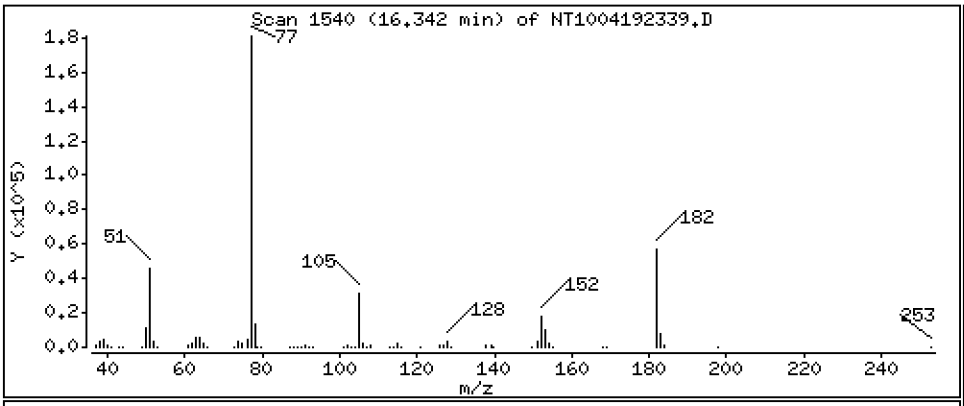
Operator: VTS

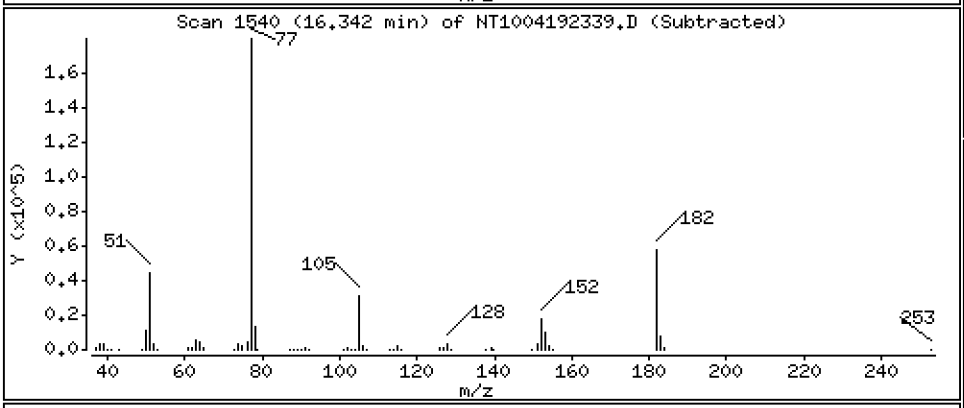
Column phase: ZB-5msi

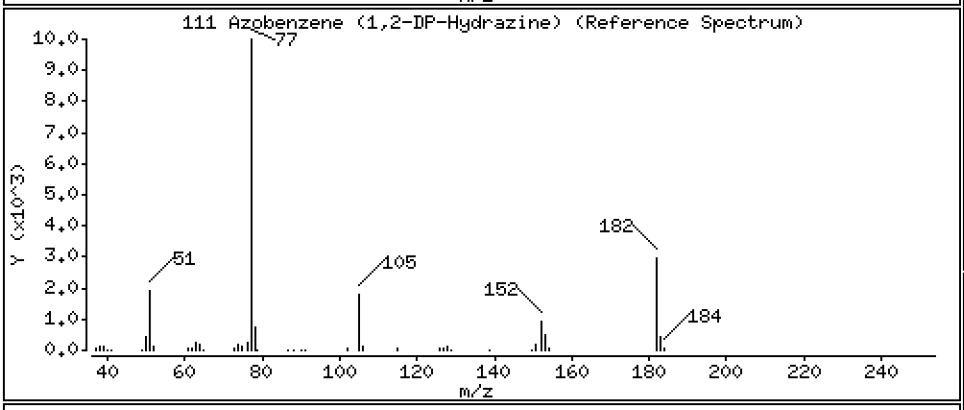
Column diameter: 0.25

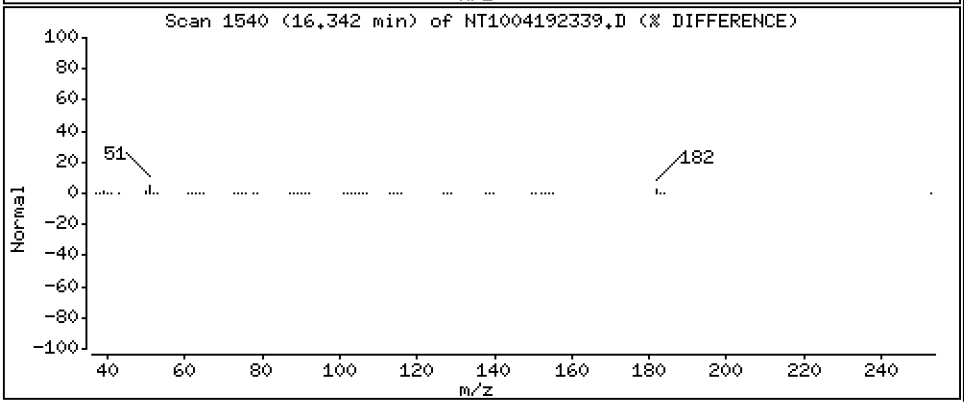
111 Azobenzene (1,2-DP-Hydrazine)

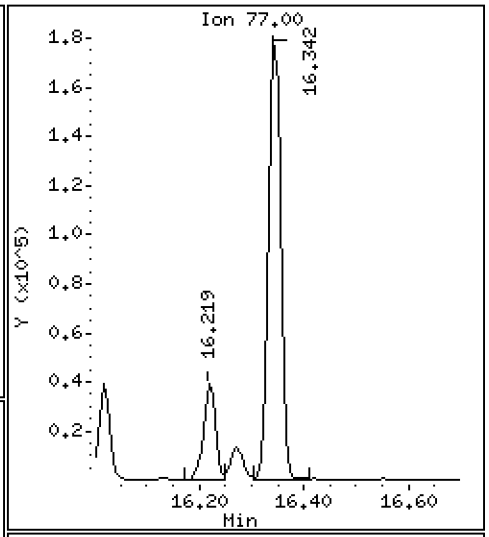
Concentration: 2.962 ug/mL

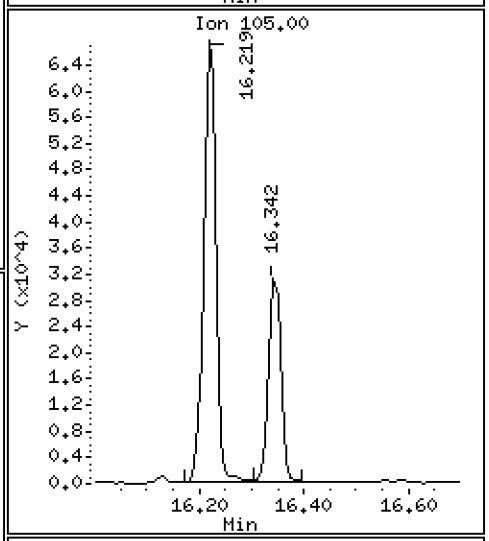


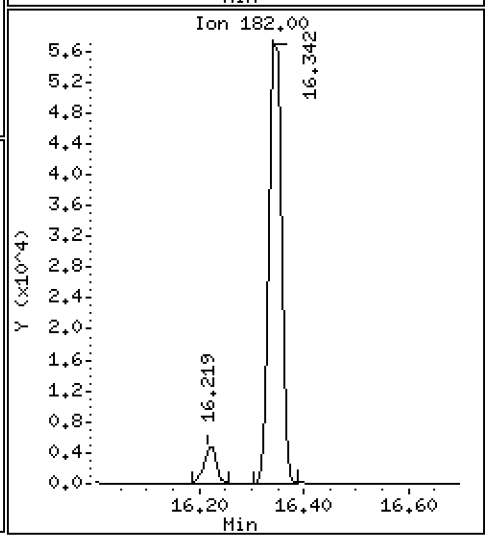












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192339.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

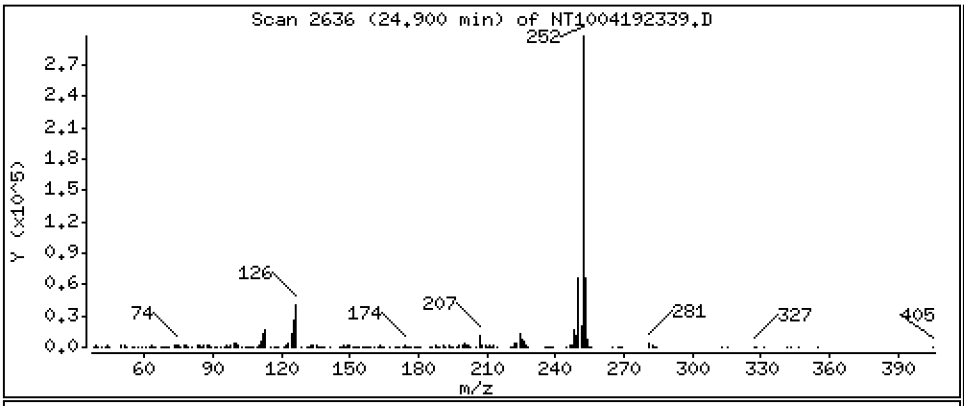
Operator: VTS

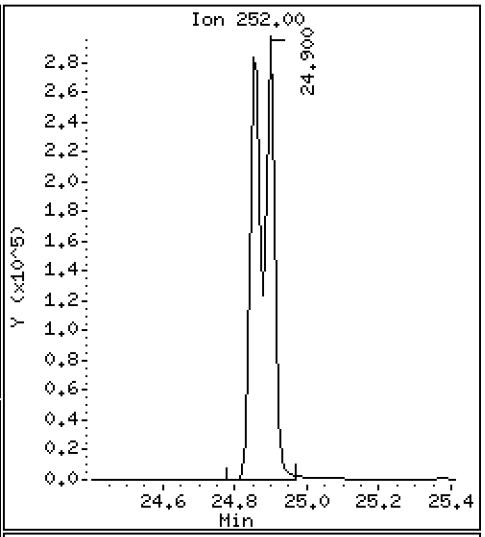
Column phase: ZB-5msi

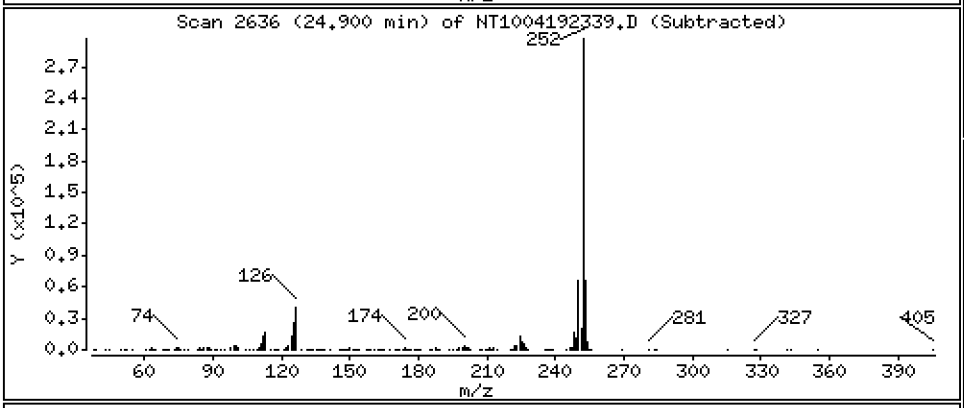
Column diameter: 0.25

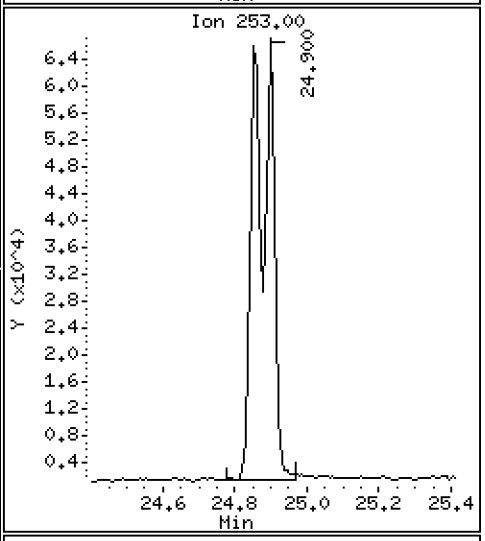
187 Total Benzofluoranthenes

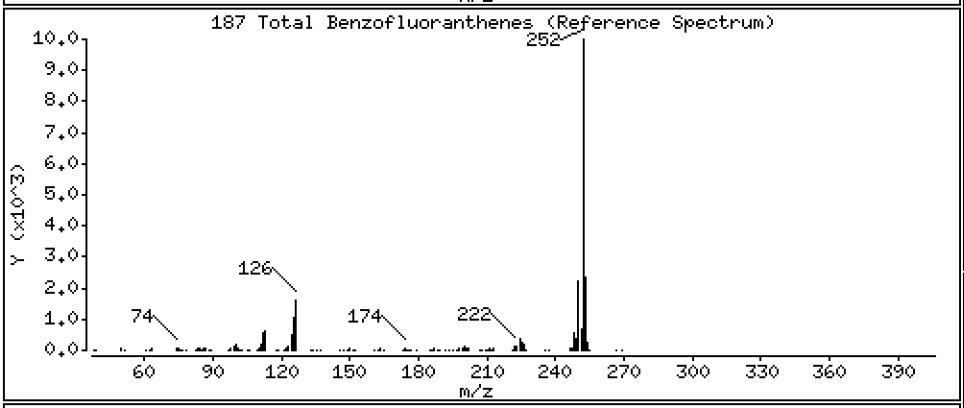
Concentration: 7.284 ug/mL

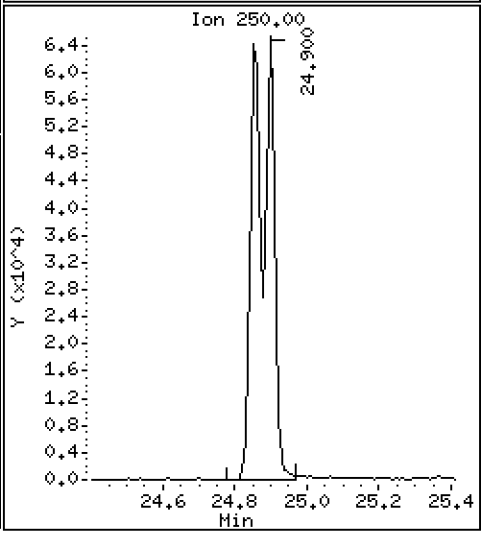


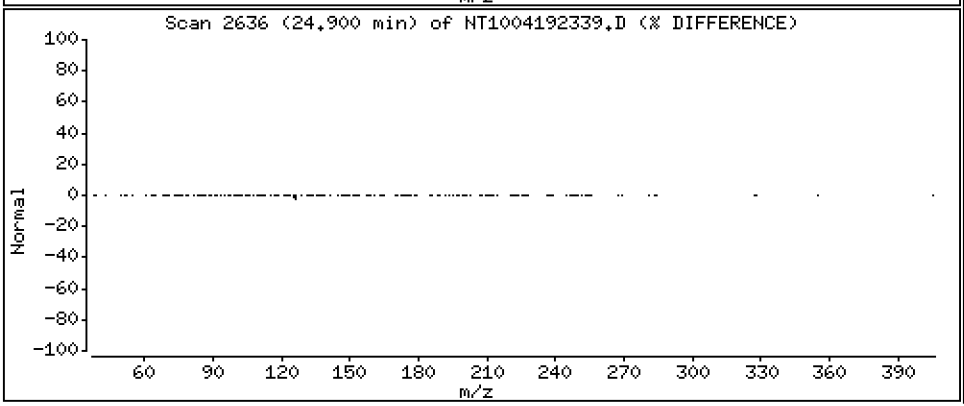












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192339.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD1

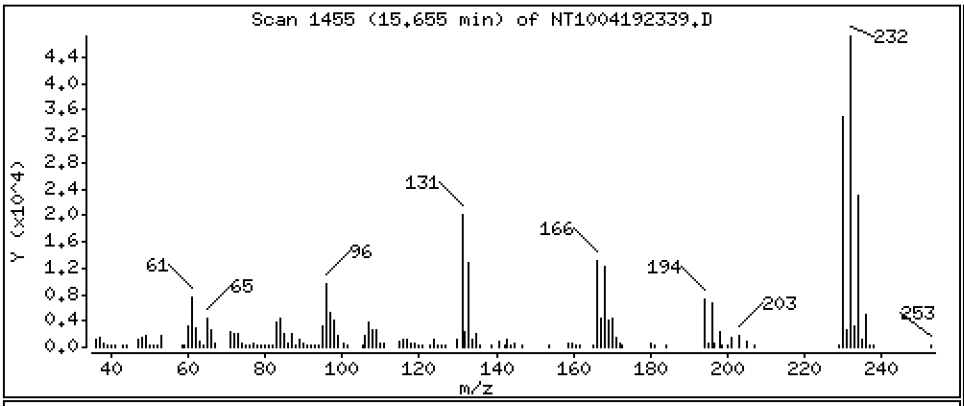
Operator: VTS

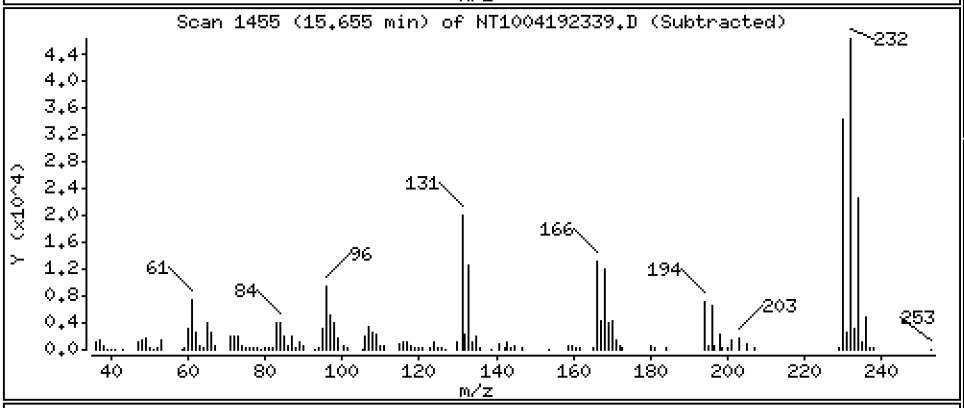
Column phase: ZB-5msi

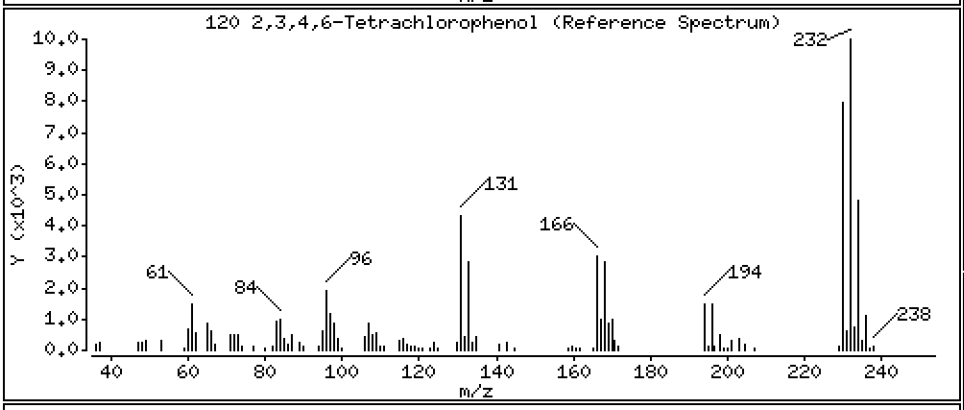
Column diameter: 0.25

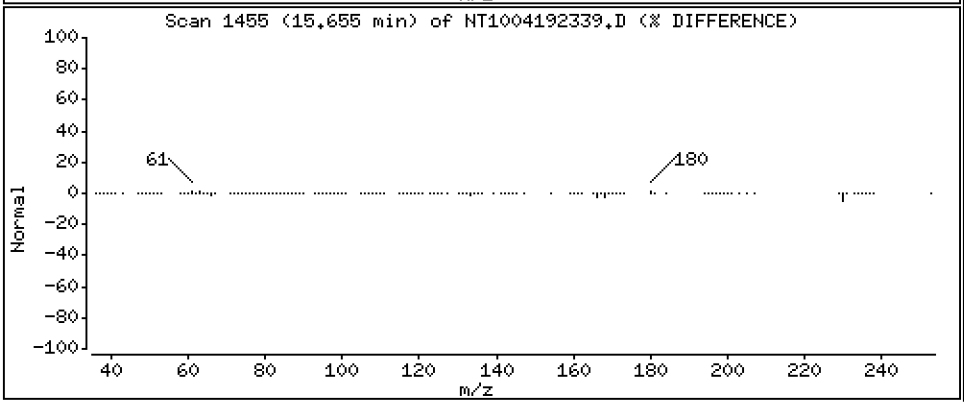
120 2,3,4,6-Tetrachlorophenol

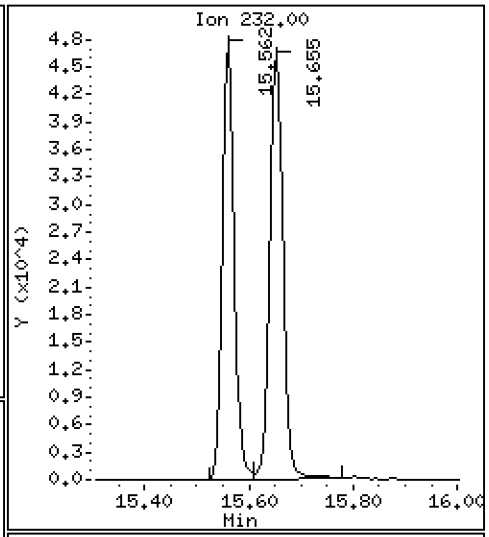
Concentration: 3.202 ug/mL

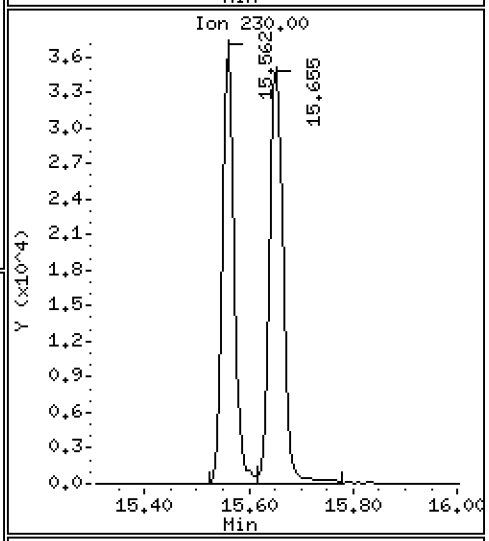


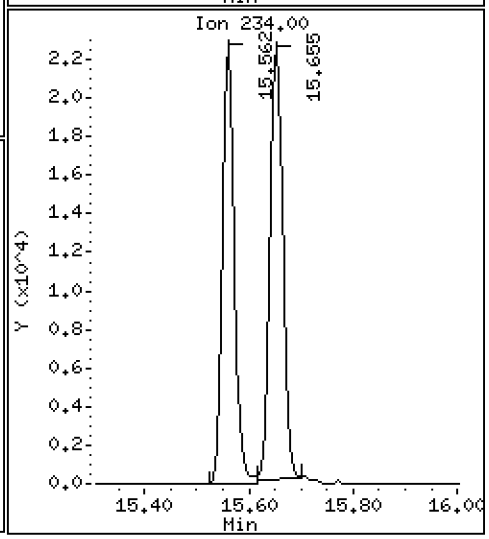












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230419B.b\NT1004192339.D
Lab Smp Id: BLD0008-BSD1
Inj Date : 20-APR-2023 11:29
Operator : VTS Inst ID: nt10.i
Smp Info : BLD0008-BSD1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Meth Date : 21-Apr-2023 11:46 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.619	6.612	(0.750)	167643	4.75734	4.757
$	2 Phenol-d5	99	8.219	8.219	(0.931)	222334	4.80950	4.809
	3 Phenol	94	8.242	8.235	(0.933)	137101	2.85400	2.854
$	5 2-Chlorophenol-d4	132	8.474	8.474	(0.960)	217668	5.51400	5.514
	4 Bis(2-Chloroethyl)ether	93	8.389	8.389	(0.950)	119603	3.35691	3.357
	6 2-Chlorophenol	128	8.497	8.497	(0.962)	138929	3.37911	3.379
	7 1,3-Dichlorobenzene	146	8.768	8.761	(0.993)	137977	3.17437	3.174
*	8 1,4-Dichlorobenzene-d4	152	8.830	8.830	(1.000)	116526	4.00000	
	9 1,4-Dichlorobenzene	146	8.861	8.861	(1.004)	136569	3.25249	3.252
$	10 1,2-Dichlorobenzene-d4	152	9.187	9.187	(1.040)	89996	3.17452	3.175
	12 1,2-Dichlorobenzene	146	9.218	9.211	(1.044)	135488	3.27873	3.279
	11 Benzyl alcohol	108	9.109	9.110	(1.032)	72747	3.22636	3.226
	14 2,2'-oxybis(1-Chloropropane)	121	9.412	9.413	(1.066)	43629	3.59515	3.595
	13 2-Methylphenol	108	9.350	9.343	(1.059)	96693	2.76120	2.761
	17 Hexachloroethane	117	9.800	9.801	(1.110)	52078	3.02295	3.023
	16 N-Nitroso-di-n-propylamine	70	9.668	9.669	(1.095)	83855	3.03264	3.033
	15 4-Methylphenol	108	9.630	9.622	(1.091)	112727	3.05516	3.055
$	18 Nitrobenzene-d5	82	9.924	9.925	(0.878)	138715	3.19096	3.191
	19 Nitrobenzene	77	9.963	9.964	(0.881)	135267	3.17071	3.171
	20 Isophorone	82	10.413	10.414	(0.921)	267122	4.89457	4.895
	21 2-Nitrophenol	139	10.591	10.592	(0.937)	69253	3.32685	3.327
	22 2,4-Dimethylphenol	107	10.659	10.660	(0.943)	141566	3.61279	3.613
	23 Bis(2-Chloroethoxy)methane	93	10.846	10.846	(0.959)	134989	3.70289	3.703
	24 Benzoic acid	105	10.905	10.897	(0.965)	491864	21.4752	21.48
	25 2,4-Dichlorophenol	162	11.050	11.050	(0.977)	366861	11.6995	11.70
	26 1,2,4-Trichlorobenzene	180	11.229	11.230	(0.993)	120780	3.28132	3.281
*	27 Naphthalene-d8	136	11.307	11.307	(1.000)	430681	4.00000	
	28 Naphthalene	128	11.353	11.353	(1.004)	370159	3.24434	3.244
	29 4-Chloroaniline	127	11.492	11.492	(1.016)	205698	4.62138	4.621
	30 Hexachlorobutadiene	225	11.716	11.716	(1.036)	79953	3.70709	3.707
	31 4-Chloro-3-methylphenol	107	12.467	12.467	(1.103)	365761	10.7749	10.77
	32 2-Methylnaphthalene	142	12.745	12.746	(1.127)	270844	3.28946	3.289
	33 Hexachlorocyclopentadiene	237	13.210	13.210	(0.885)	96000	3.97649	3.976

		QUANT SIG					CONCENTRATIONS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.372	13.373	(0.896)	268714	10.4225	10.42
	35 2,4,5-Trichlorophenol	196	13.450	13.450	(0.901)	286949	10.0166	10.02
$	36 2-Fluorobiphenyl	172	13.527	13.527	(0.907)	327318	3.17207	3.172
	37 2-Chloronaphthalene	162	13.736	13.736	(0.921)	259680	3.10801	3.108
	38 2-Nitroaniline	65	14.007	14.007	(0.939)	202762	8.63928	8.639
	39 Dimethylphthalate	163	14.440	14.441	(0.968)	310608	3.66538	3.665
	40 Acenaphthylene	152	14.603	14.603	(0.979)	386486	2.96855	2.969
	41 2,6-Dinitrotoluene	165	14.572	14.580	(0.977)	196884	10.7551	10.76
*	42 Acenaphthene-d10	164	14.920	14.913	(1.000)	260856	4.00000	
	43 3-Nitroaniline	138	14.858	14.859	(0.996)	156699	7.58390	7.584
	44 Acenaphthene	153	14.982	14.982	(1.004)	253178	3.14775	3.148
	45 2,4-Dinitrophenol	184	15.067	15.067	(1.010)	185098	16.2171	16.22
	46 Dibenzofuran	168	15.307	15.307	(1.026)	373370	3.14793	3.148
	47 4-Nitrophenol	109	15.206	15.206	(1.019)	104955	8.11702	8.117
	48 2,4-Dinitrotoluene	165	15.384	15.384	(1.031)	257290	9.43519	9.435
	50 Diethylphthalate	149	15.902	15.902	(1.066)	363423	4.37101	4.371
	49 Fluorene	166	16.018	16.018	(1.074)	306339	3.28293	3.283
	51 4-Chlorophenyl-phenylether	204	16.018	16.018	(1.074)	160243	3.61127	3.611
	52 4-Nitroaniline	138	16.126	16.126	(1.081)	154114	8.27660	8.277
	53 4,6-Dinitro-2-methylphenol	198	16.218	16.219	(0.904)	300963	21.6184	21.62
	54 N-Nitrosodiphenylamine	169	16.272	16.273	(0.907)	184300	3.06358	3.064
$	55 2,4,6-Tribromophenol	330	16.558	16.558	(1.110)	75636	6.21303	6.213
	56 4-Bromophenyl-phenylether	248	17.020	17.021	(0.948)	103697	4.12039	4.120
	57 Hexachlorobenzene	284	17.330	17.330	(0.966)	105391	3.99420	3.994
	58 Pentachlorophenol	266	17.694	17.694	(0.986)	171457	10.7582	10.76
*	59 Phenanthrene-d10	188	17.949	17.949	(1.000)	449962	4.00000	
	60 Phenanthrene	178	17.995	17.996	(1.003)	420777	3.42946	3.429
	61 Anthracene	178	18.088	18.089	(1.008)	353652	3.00479	3.005
	62 Carbazole	167	18.429	18.429	(1.027)	364132	3.45258	3.453
	63 Di-n-butylphthalate	149	19.256	19.265	(1.073)	552533	3.91252	3.913
	64 Fluoranthene	202	20.402	20.402	(0.885)	512598	2.93552	2.936
	65 Pyrene	202	20.827	20.827	(0.904)	510643	2.85072	2.851
$	66 Terphenyl-d14	244	21.137	21.137	(0.917)	430309	3.19881	3.199
	67 Butylbenzylphthalate	149	22.081	22.089	(0.958)	216197	3.36746	3.367
	68 Benzo(a)anthracene	228	23.010	23.019	(0.999)	493148	3.21498	3.215
*	69 Chrysene-d12	240	23.041	23.042	(1.000)	434573	4.00000	
	70 3,3'-Dichlorobenzidine	252	22.987	22.988	(0.998)	293351	5.97053	5.971
	71 Chrysene	228	23.088	23.088	(1.002)	455183	3.03739	3.037
	72 bis(2-Ethylhexyl)phthalate	149	23.134	23.135	(0.959)	282439	3.28238	3.282
*	134 Di-n-octylphthalate-d4	153	24.117	24.126	(1.000)	587129	4.00000	
	73 Di-n-octylphthalate	149	24.133	24.133	(1.001)	537526	3.49843	3.498
	74 Benzo(b)fluoranthene	252	24.853	24.861	(0.972)	545952	3.58441	3.584
	75 Benzo(k)fluoranthene	252	24.899	24.908	(0.973)	579164	3.74472	3.745
	76 Benzo(a)pyrene	252	25.472	25.481	(0.996)	460394	3.38086	3.381
*	77 Perylene-d12	264	25.581	25.589	(1.000)	469883	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.084	28.092	(1.098)	471736	2.72288	2.723
	79 Dibenzo(a,h)anthracene	278	28.100	28.116	(1.098)	393839	2.73813	2.738
	80 Benzo(g,h,i)perylene	276	28.814	28.822	(1.126)	348594	2.32500	2.325
	90 N-Nitrosodimethylamine	74	4.418	4.411	(0.500)	144064	6.40808	6.408
	91 Aniline	93	8.288	8.289	(0.939)	135437	2.75153	2.752
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	4.449	4.426	(0.504)	30438	0.88157	0.8816
	105 1-methylnaphthalene	142	12.962	12.962	(1.146)	263392	3.49151	3.492
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.342	16.350	(1.095)	275121	2.96221	2.962

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	24.899	24.908	(0.973)	1071152	7.28368	7.284
120 2,3,4,6-Tetrachlorophenol	232	15.654	15.655	(1.049)	85773	3.20191	3.202

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192339.D
Lab Smp Id: BLD0008-BSD1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Misc Info:

Calibration Date: 20-APR-2023
Calibration Time: 07:41
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	129725	64863	259450	116526	-10.17
27 Naphthalene-d8	475671	237836	951342	430681	-9.46
42 Acenaphthene-d10	277889	138945	555778	260856	-6.13
59 Phenanthrene-d10	485346	242673	970692	449962	-7.29
69 Chrysene-d12	453075	226538	906150	434573	-4.08
134 Di-n-octylphthala	697265	348633	1394530	587129	-15.80
77 Perylene-d12	538138	269069	1076276	469883	-12.68

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.83	8.33	9.33	8.83	-0.00
27 Naphthalene-d8	11.31	10.81	11.81	11.31	-0.00
42 Acenaphthene-d10	14.91	14.41	15.41	14.92	0.05
59 Phenanthrene-d10	17.95	17.45	18.45	17.95	-0.00
69 Chrysene-d12	23.04	22.54	23.54	23.04	-0.00
134 Di-n-octylphthala	24.13	23.63	24.63	24.12	-0.03
77 Perylene-d12	25.59	25.09	26.09	25.58	-0.03

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

REVIEW SUMMARY FOR FILE - NT1004192339.D

Lab ID: BLD0008-BSD1
nt10.i, 20230419B.b\ABN.m,   20-APR-2023 11:29

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: NT1004192333.D

On Column LOD for nt10.i, 20230419B.b\ABN.m, ICAL.sub = 0.0000

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

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1810

MS / MS DUPLICATE RECOVERY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	04/20/23 15:18
Batch:	BLD0008	Laboratory ID:	BLD0008-MS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	18.97 g / 1 mL	Source Sample:	LDW23-SS1810

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Phenol	500	11.6	J	318		61.3	34 - 120
4-Methylphenol	500	ND	U	299		59.8	29 - 120
Naphthalene	500	10.8	J	329		63.7	43 - 120
2-Methylnaphthalene	500	8.9	J	340		66.2	43 - 120
Acenaphthylene	500	8.7	J	310		60.2	42 - 120
Dimethylphthalate	500	8.9	J	370		72.2	43 - 120
Acenaphthene	500	8.7	J	330		64.3	45 - 120
Dibenzofuran	500	ND	U	337		67.3	43 - 120
Fluorene	500	ND	U	386		77.2	45 - 120
Phenanthrene	500	92.7		401		61.6	49 - 120
Anthracene	500	34.6		313		55.7	45 - 120
Fluoranthene	500	233	Q	420	*, Q	37.4 *	53 - 145
Pyrene	500	242	Q	437	*, Q	38.9 *	52 - 134
Butylbenzylphthalate	500	14.4	J	349		66.9	45 - 132
Benzo(a)anthracene	500	156		401		49.1	49 - 120
Chrysene	500	218		431	*	42.4 *	47 - 120
bis(2-Ethylhexyl)phthalate	500	84.6		431		69.3	34 - 130
Benzofluoranthenes, Total	1000	432		975		54.2	30 - 160
Benzo(a)pyrene	500	185		413		45.6	42 - 120
Indeno(1,2,3-cd)pyrene	500	99.0		361		52.3	42 - 163
Dibenzo(a,h)anthracene	500	34.5		323		57.8	30 - 133
Benzo(g,h,i)perylene	500	99.3	Q	329	*, Q	45.9 *	46 - 148

* Values outside of QC limits

MS / MS DUPLICATE RECOVERY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	04/20/23 15:56
Batch:	BLD0008	Laboratory ID:	BLD0008-MSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	18.97 g / 1 mL	Source Sample:	LDW23-SS1810

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	500	308		59.2	3.30	30	34 - 120
4-Methylphenol	500	312		62.4	4.19	30	29 - 120
Naphthalene	500	337		65.2	2.22	30	43 - 120
2-Methylnaphthalene	500	332		64.7	2.34	30	43 - 120
Acenaphthylene	500	309		60.0	0.245	30	42 - 120
Dimethylphthalate	500	354		69.0	4.39	30	43 - 120
Acenaphthene	500	323		62.8	2.21	30	45 - 120
Dibenzofuran	500	317		63.4	5.96	30	43 - 120
Fluorene	500	375		74.9	3.02	30	45 - 120
Phenanthrene	500	382		57.9	4.71	30	49 - 120
Anthracene	500	324		57.9	3.32	30	45 - 120
Fluoranthene	500	389	*, Q	31.3 *	7.51	30	53 - 145
Pyrene	500	406	*, Q	32.9 *	7.18	30	52 - 134
Butylbenzylphthalate	500	356		68.4	2.11	30	45 - 132
Benzo(a)anthracene	500	401		49.0	0.0912	30	49 - 120
Chrysene	500	451	*	46.6 *	4.68	30	47 - 120
bis(2-Ethylhexyl)phthalate	500	399		62.9	7.70	30	34 - 130
Benzofluoranthenes, Total	1000	926		49.4	5.06	30	30 - 160
Benzo(a)pyrene	500	428		48.6	3.55	30	42 - 120
Indeno(1,2,3-cd)pyrene	500	349		50.1	3.22	30	42 - 163
Dibenzo(a,h)anthracene	500	315		56.1	2.63	30	30 - 133
Benzo(g,h,i)perylene	500	312	*, Q	42.5 *	5.29	30	46 - 148

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192345.D

Date : 20-APR-2023 15:18

Client ID:

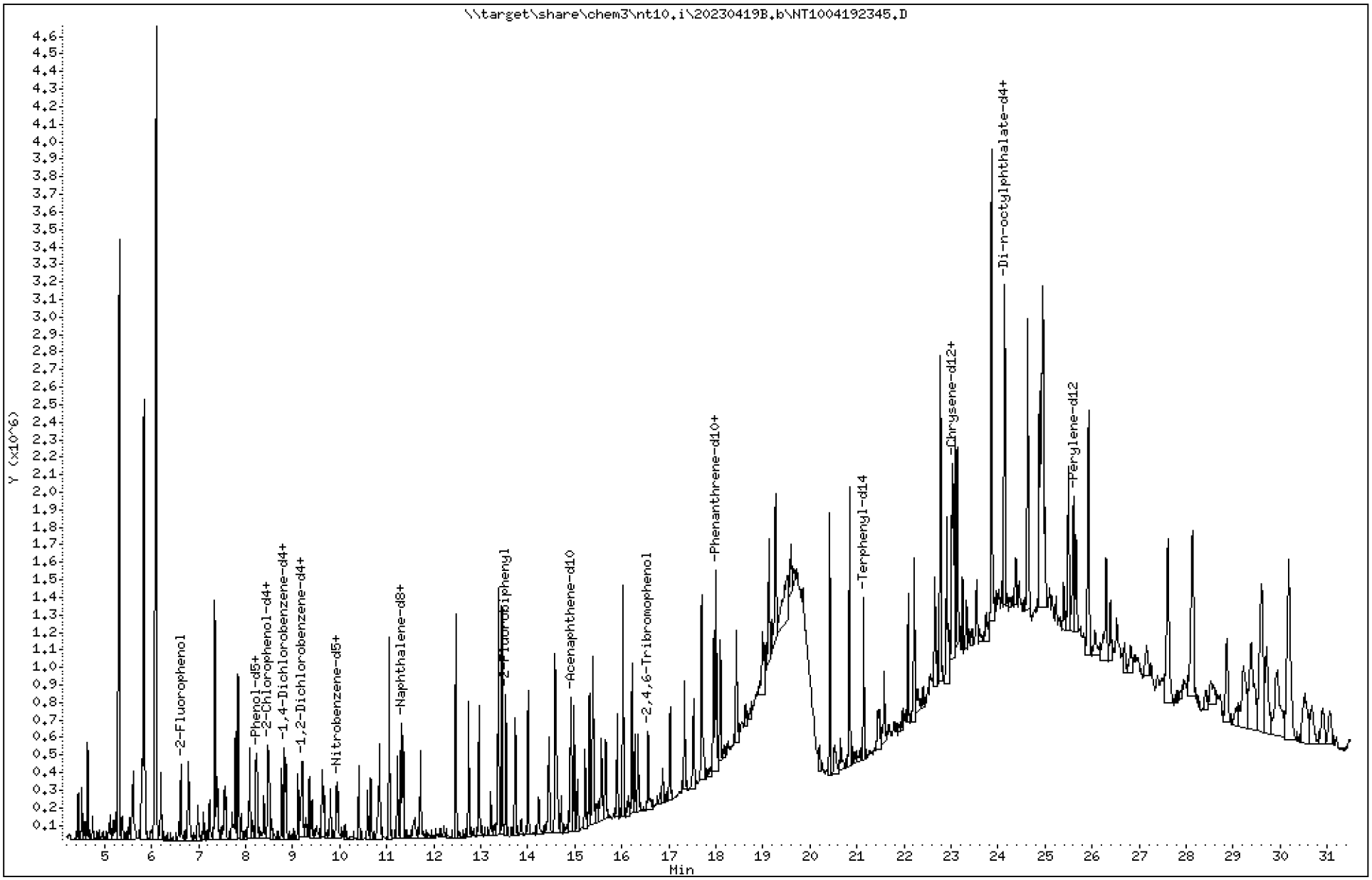
Instrument: nt10.i

Sample Info: BLD0008-MS1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

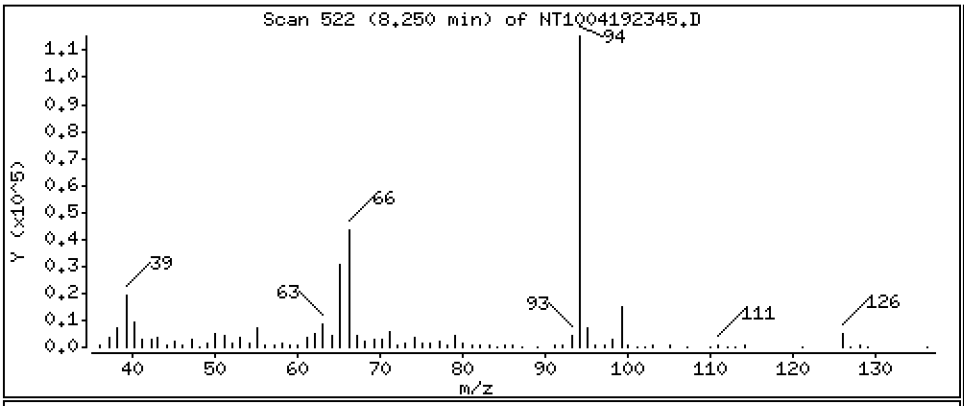
Operator: VTS

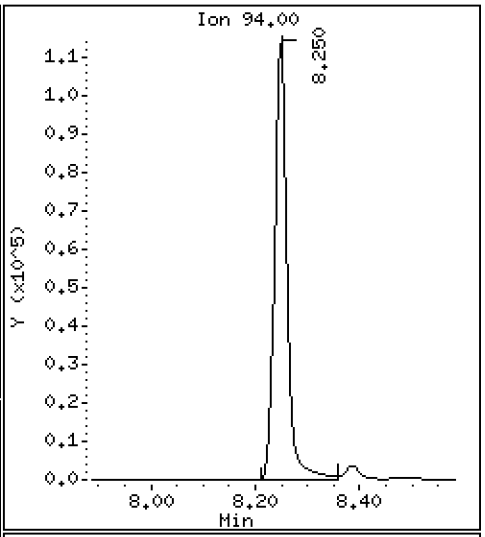
Column phase: ZB-5msi

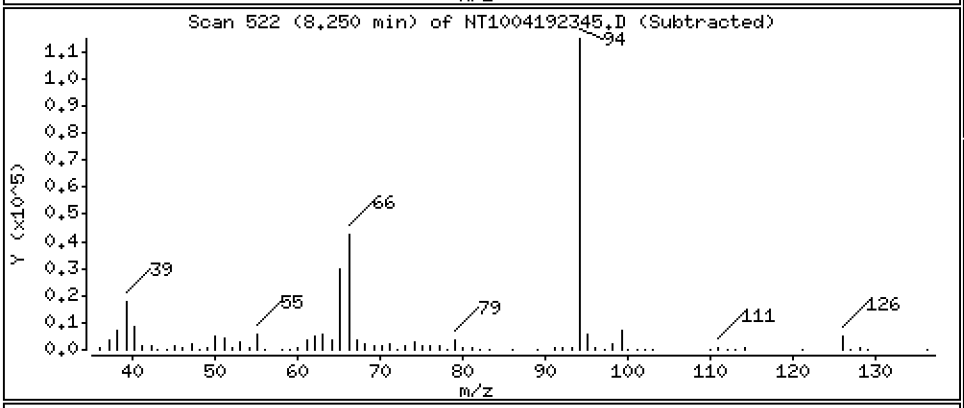
Column diameter: 0.25

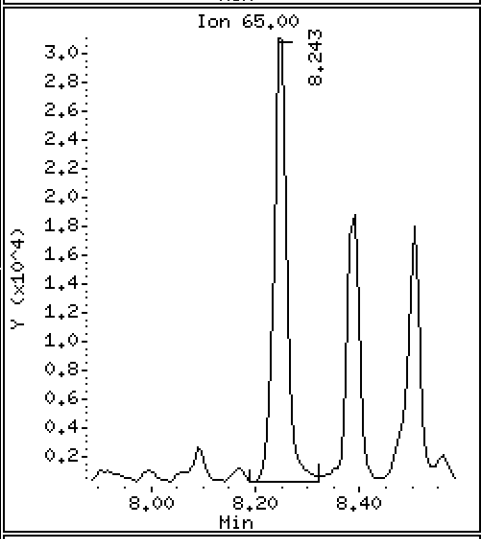
3 Phenol

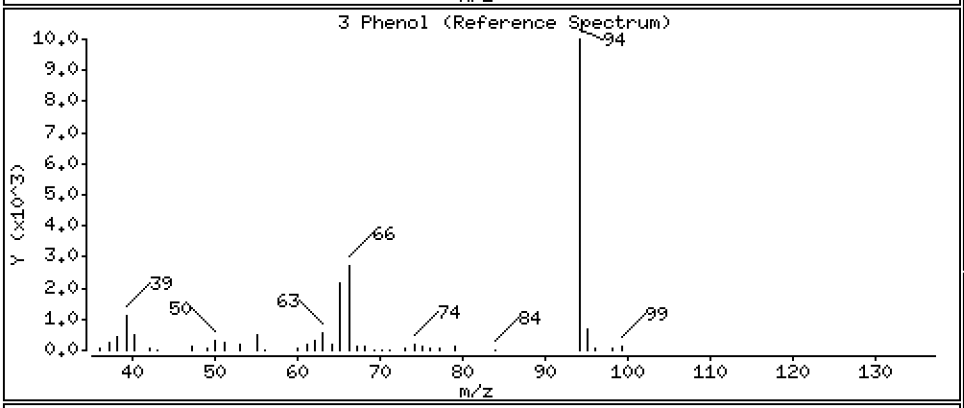
Concentration: 3.181 ug/mL

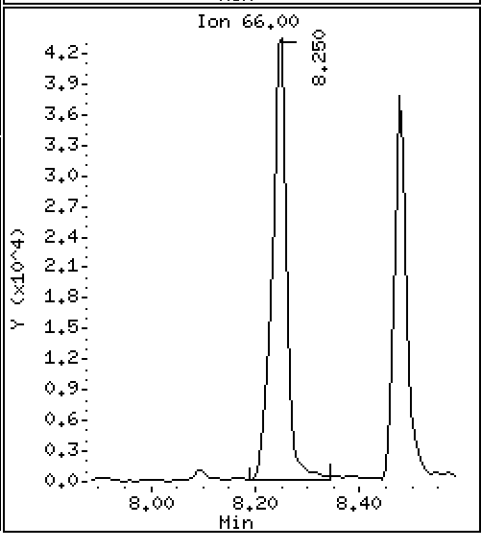


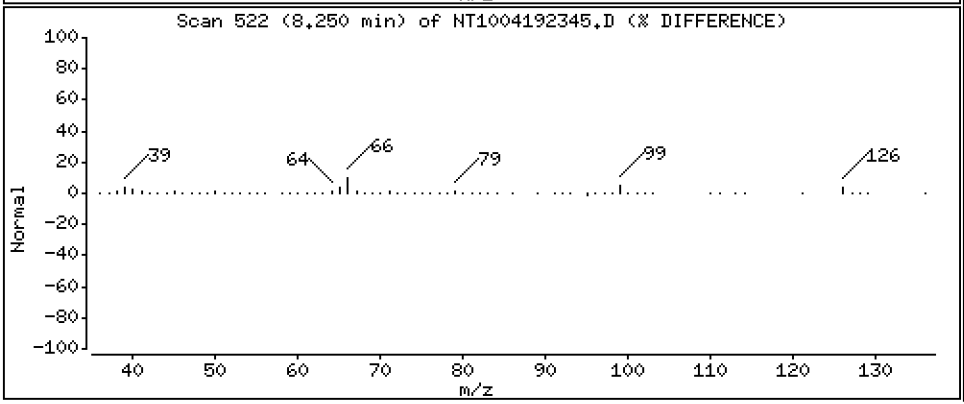












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

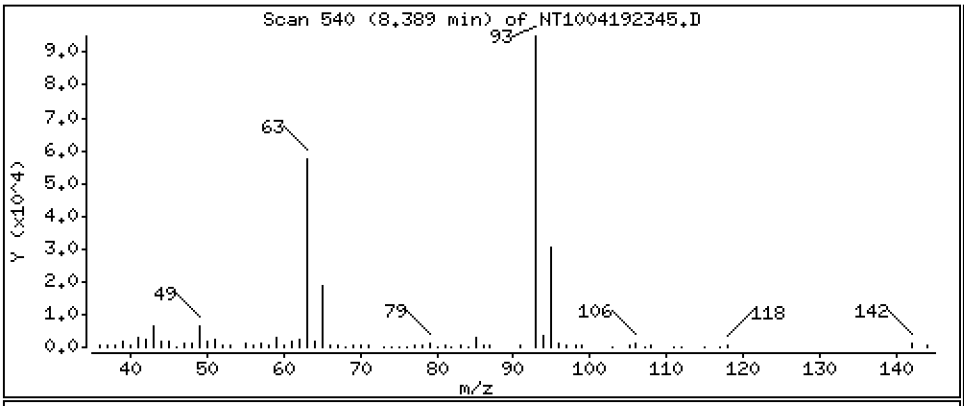
Operator: VTS

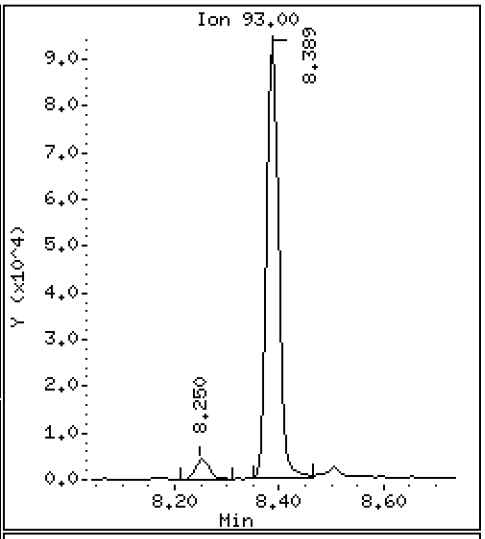
Column phase: ZB-5msi

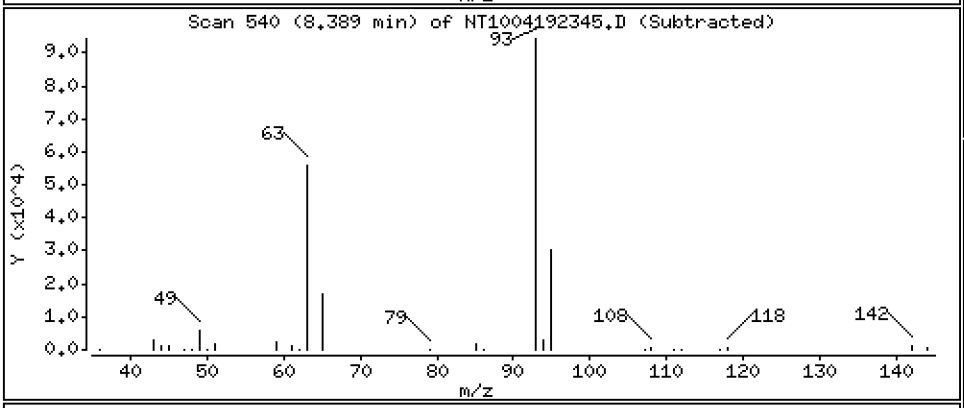
Column diameter: 0.25

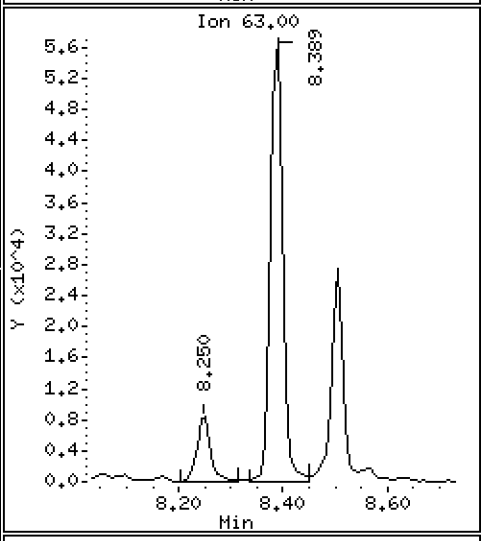
4 Bis(2-Chloroethyl)ether

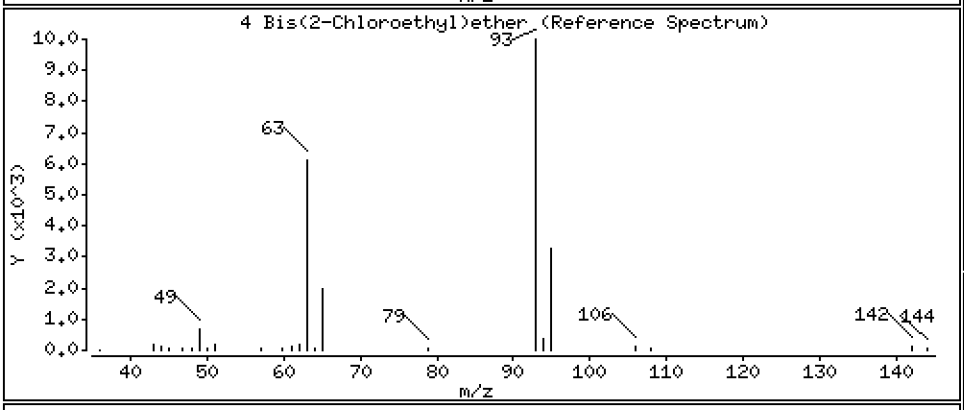
Concentration: 3.191 ug/mL

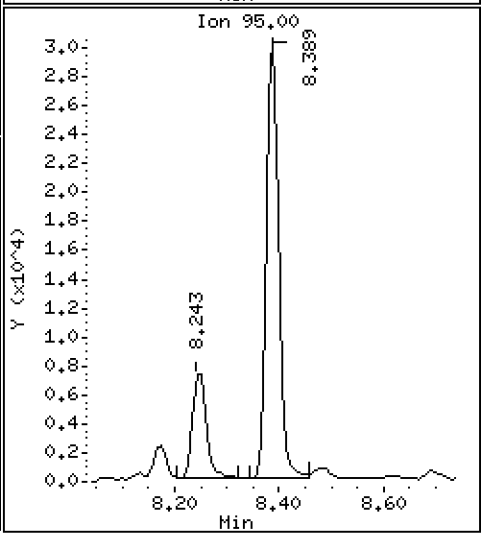


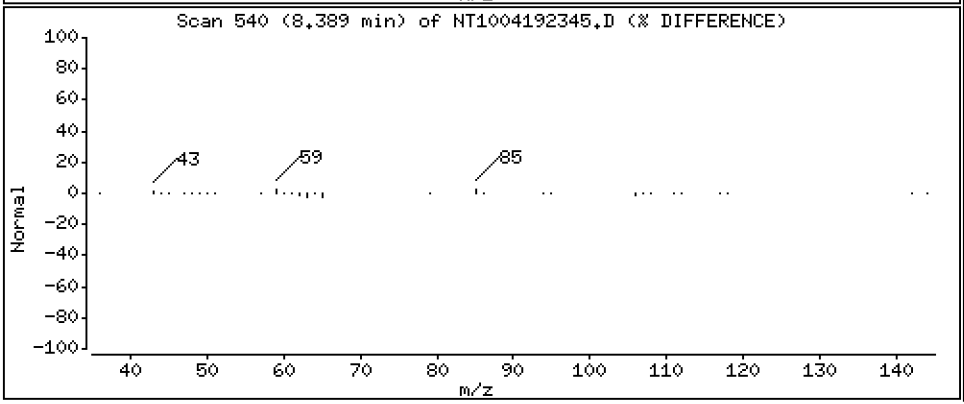












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

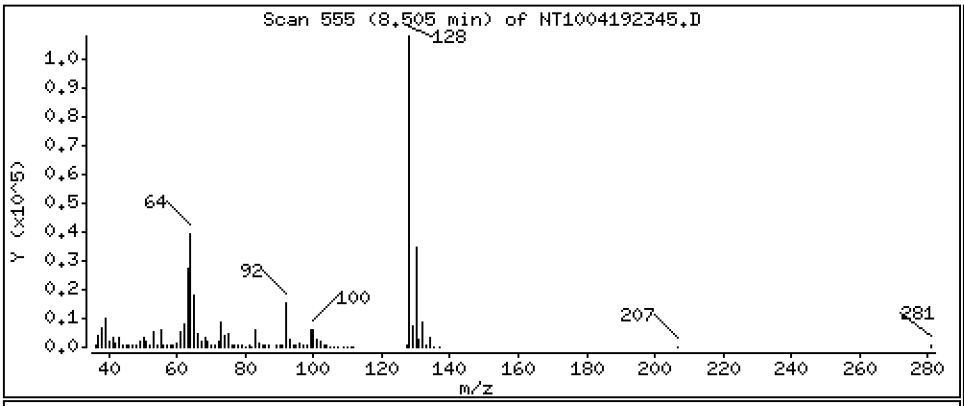
Operator: VTS

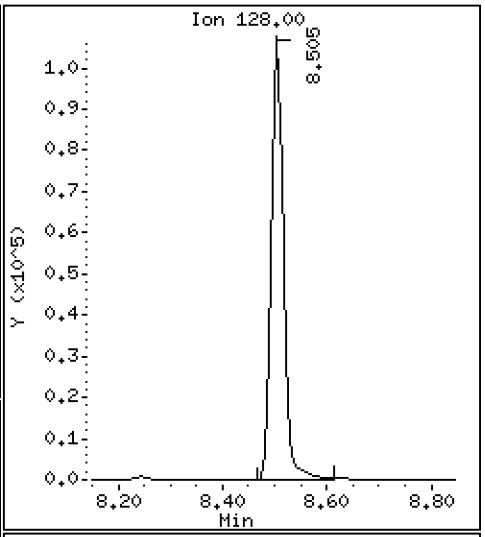
Column phase: ZB-5msi

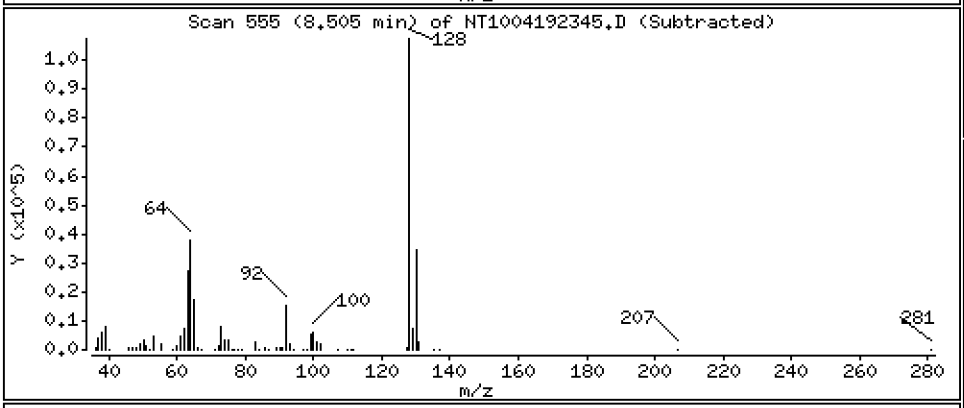
Column diameter: 0.25

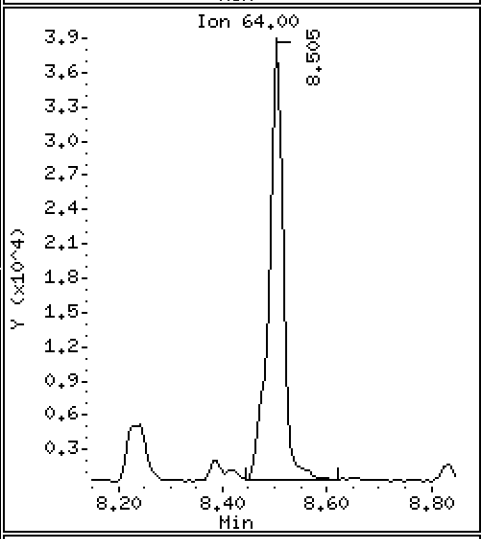
6 2-Chlorophenol

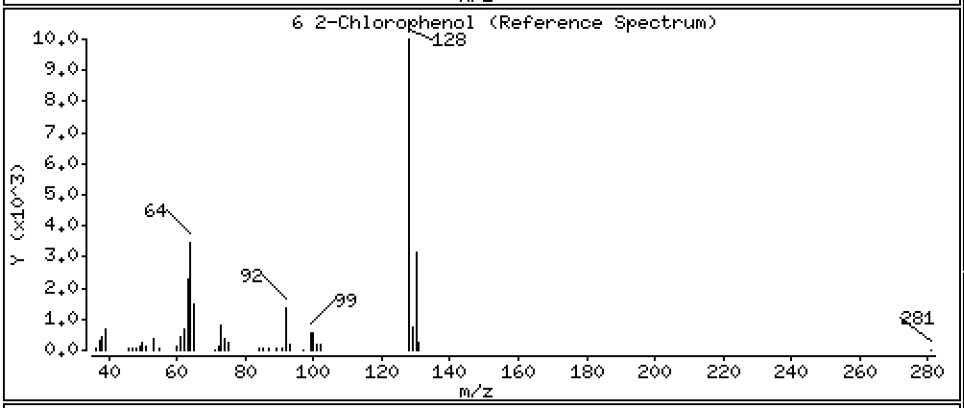
Concentration: 3.538 ug/mL

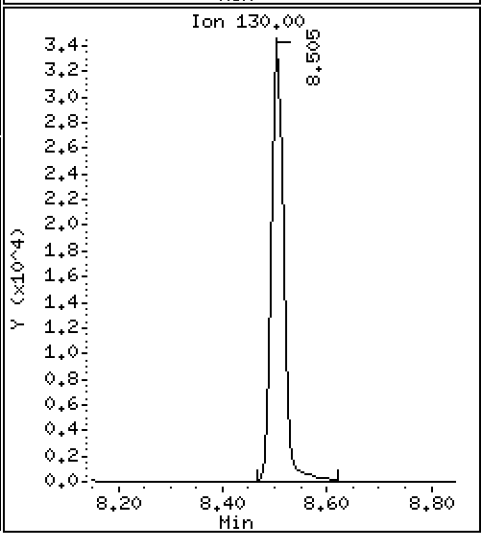


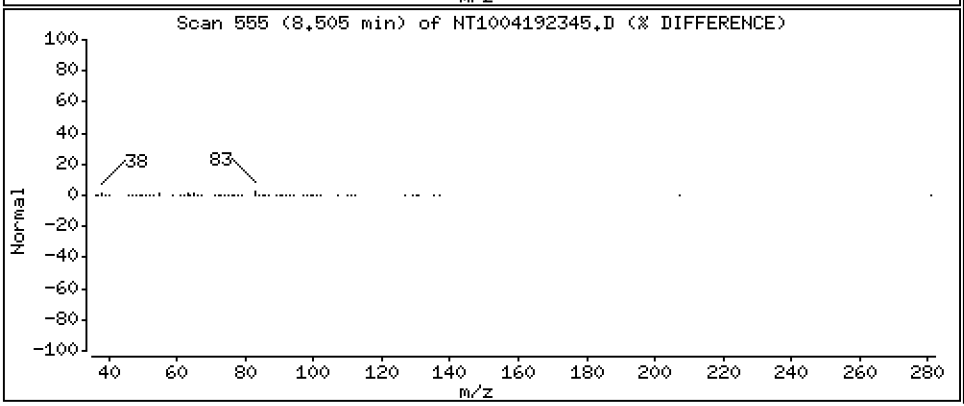












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

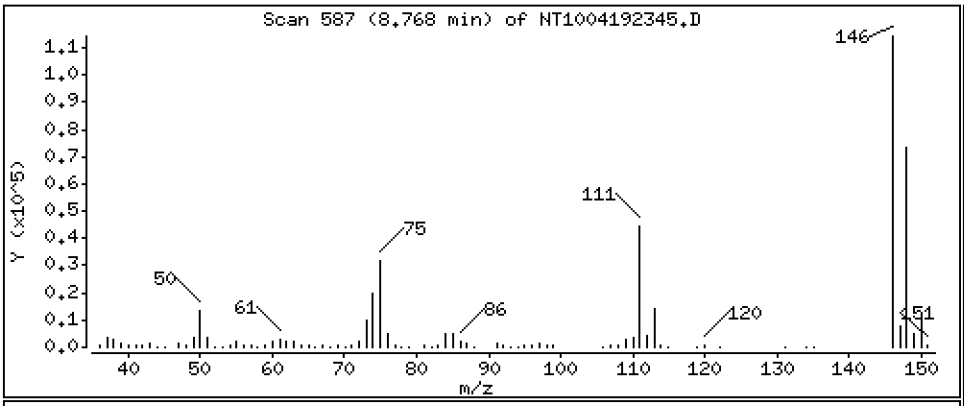
Operator: VTS

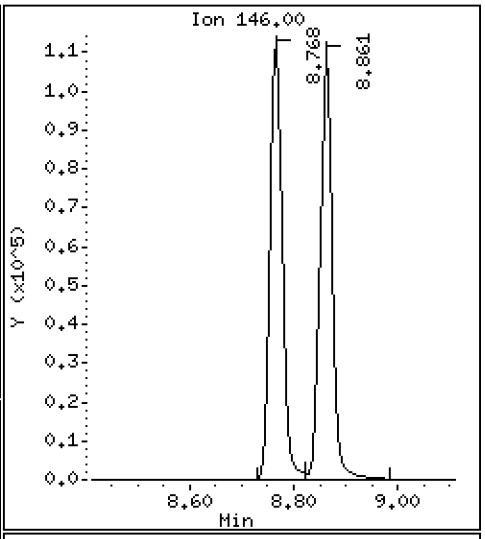
Column phase: ZB-5msi

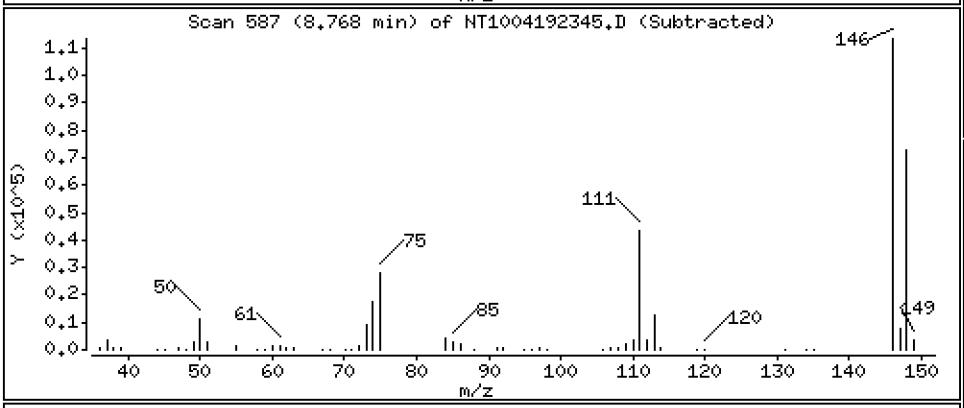
Column diameter: 0.25

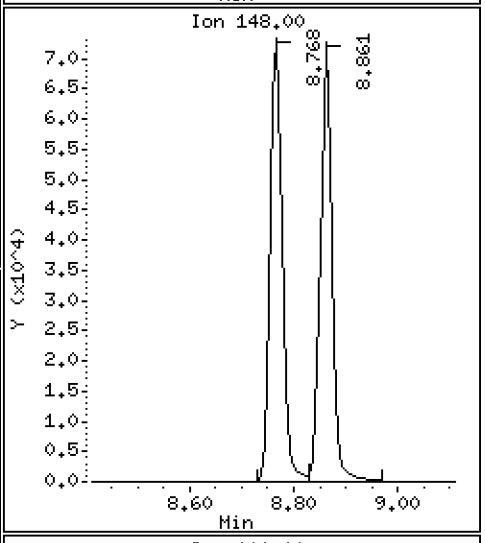
7 1,3-Dichlorobenzene

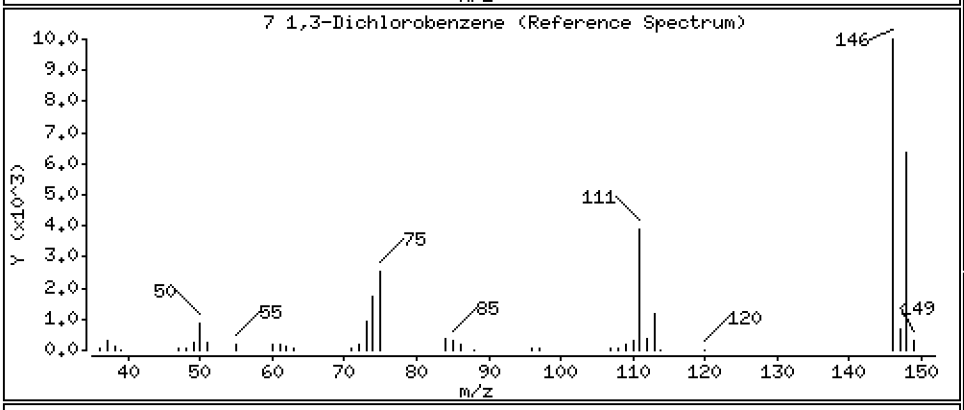
Concentration: 3.254 ug/mL

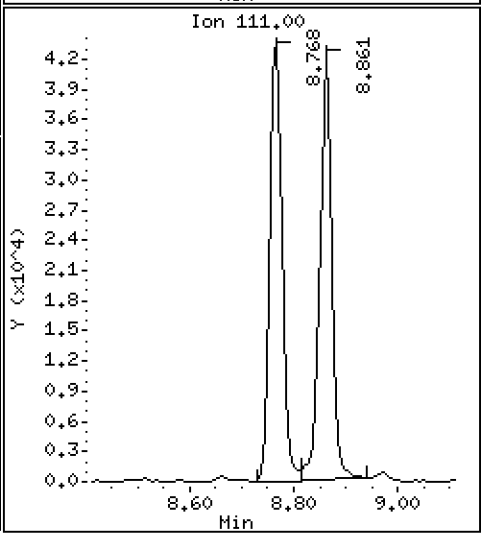


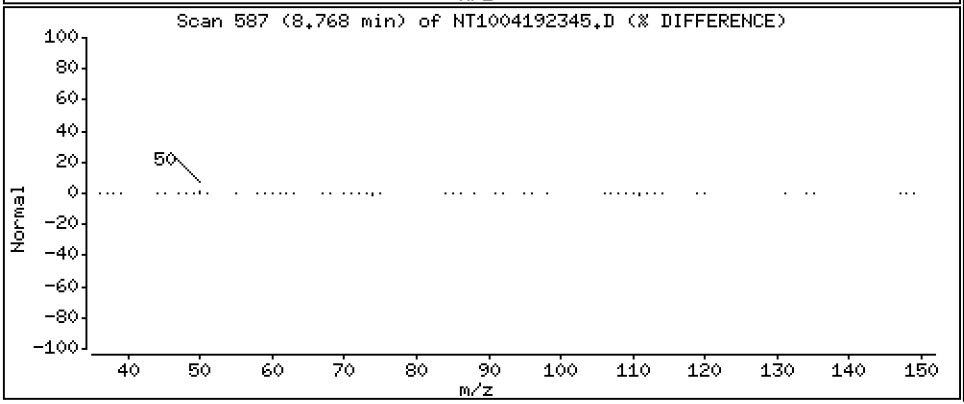












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

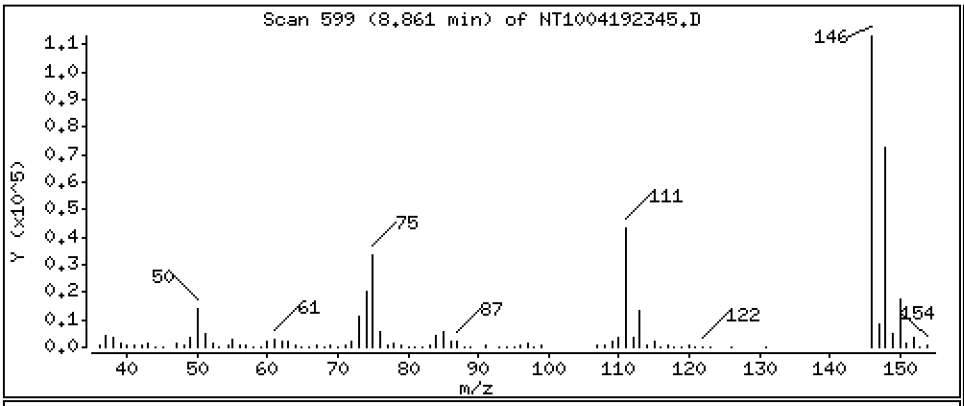
Operator: VTS

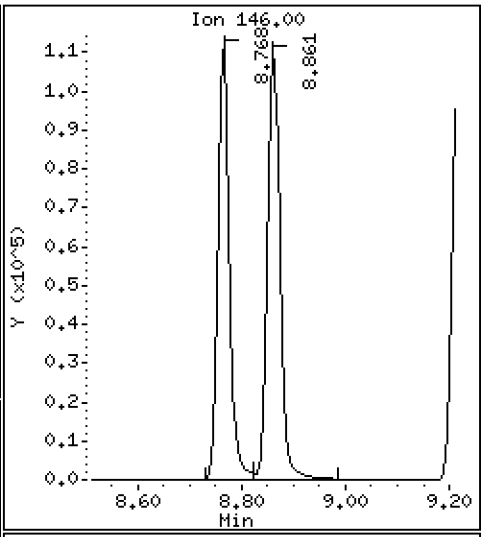
Column phase: ZB-5msi

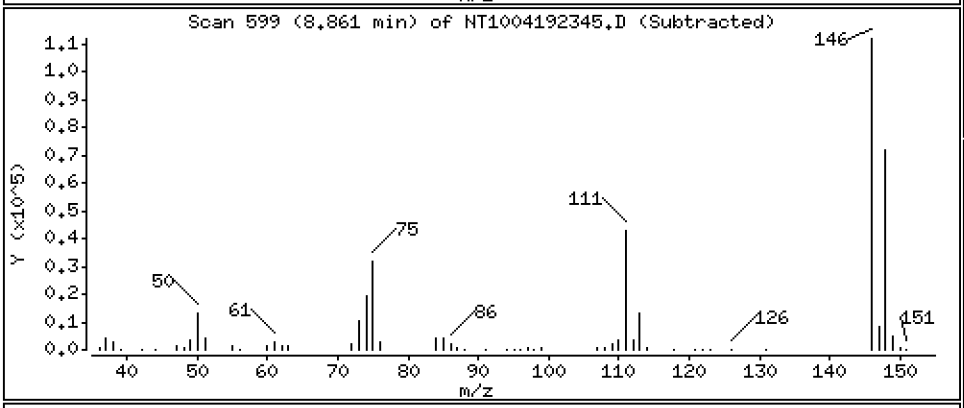
Column diameter: 0.25

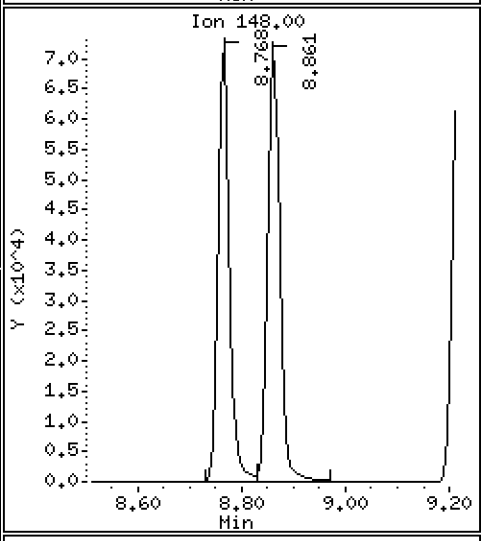
9 1,4-Dichlorobenzene

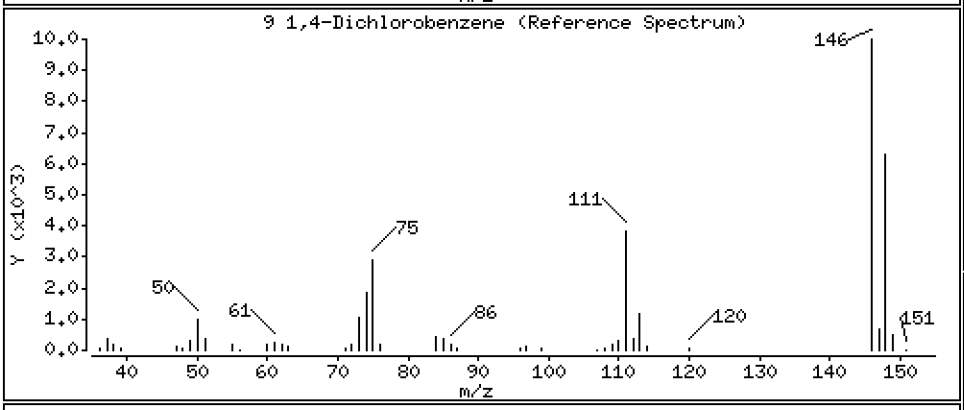
Concentration: 3.369 ug/mL

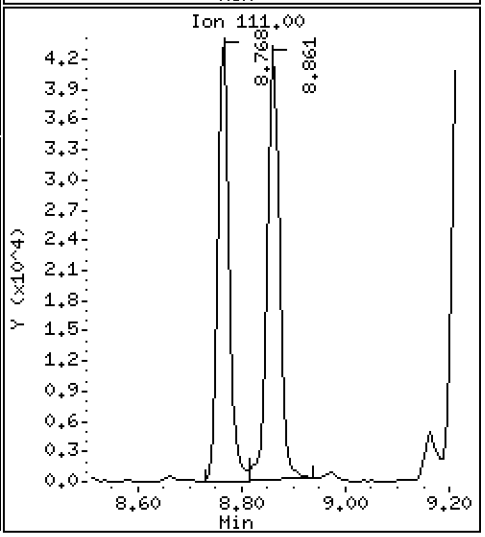


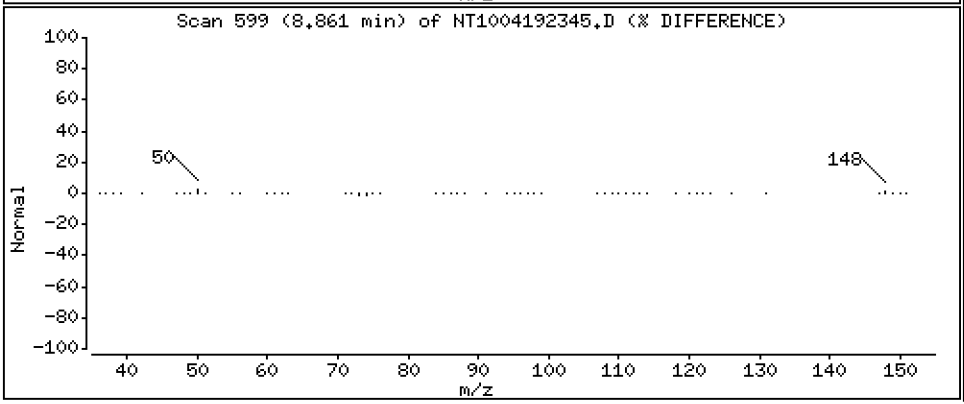












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

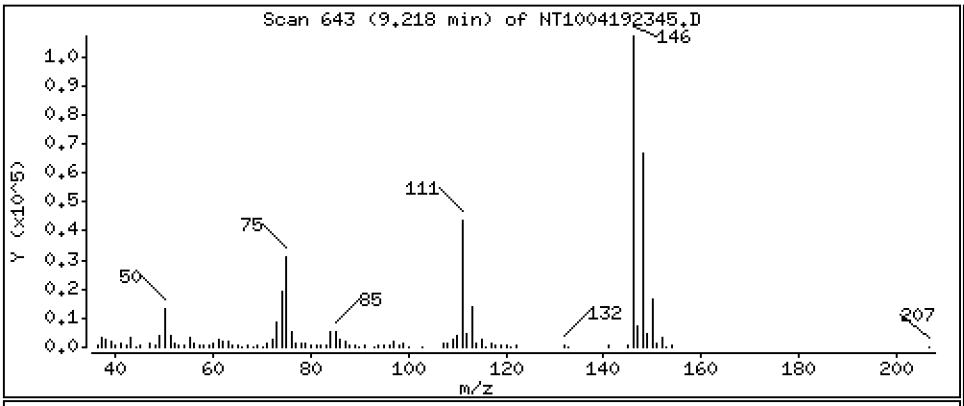
Operator: VTS

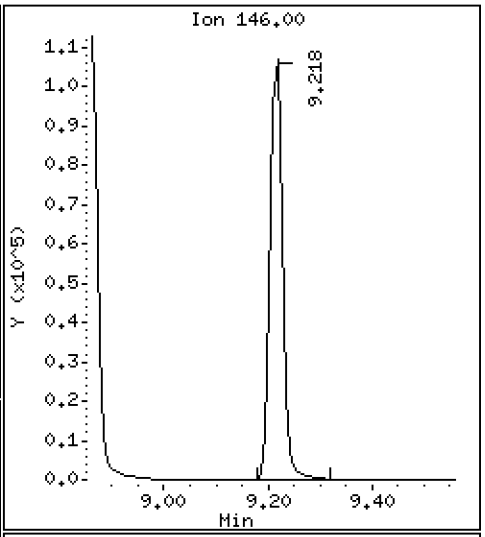
Column phase: ZB-5msi

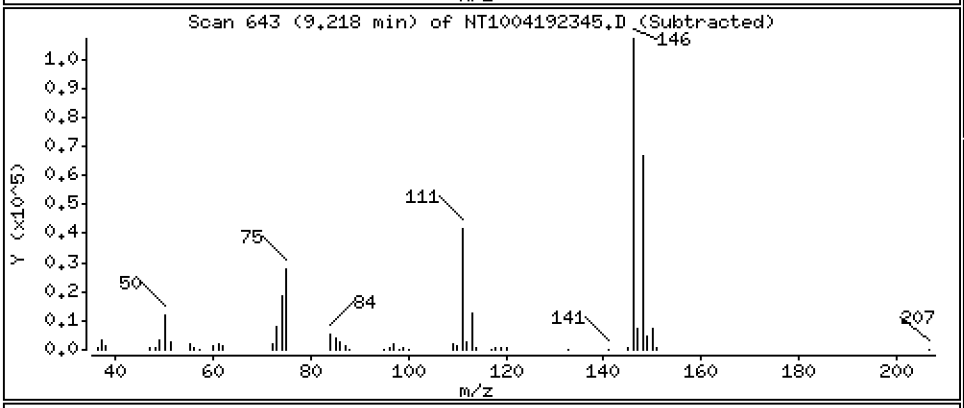
Column diameter: 0.25

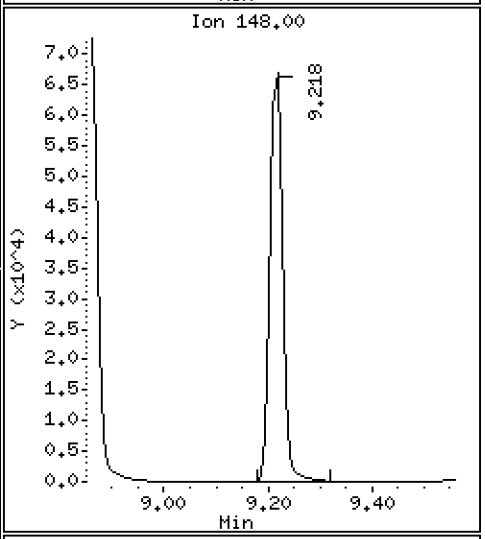
12 1,2-Dichlorobenzene

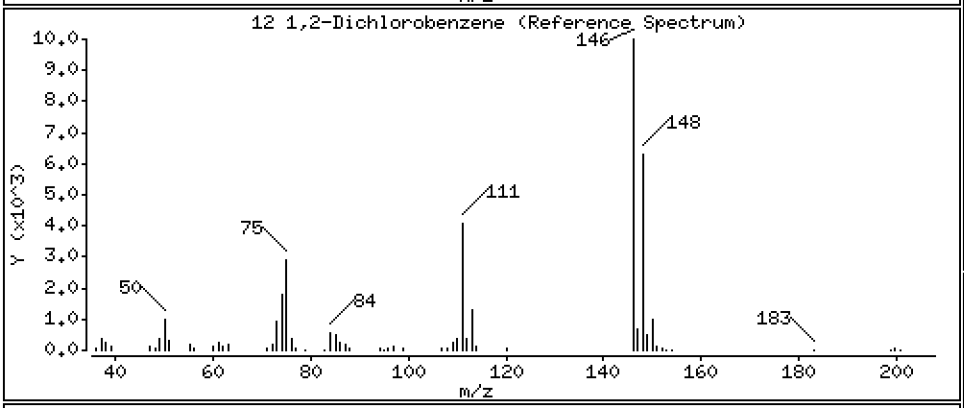
Concentration: 3.306 ug/mL

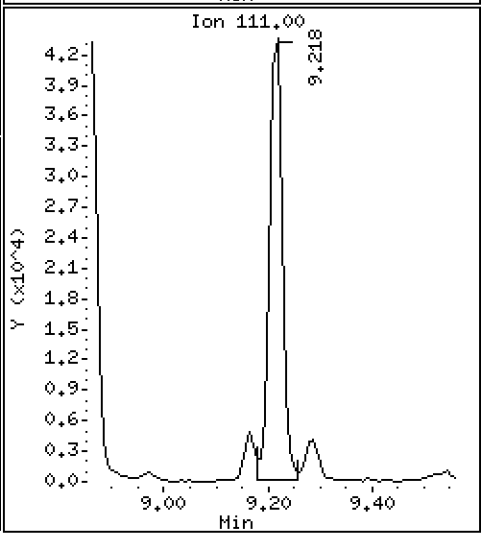


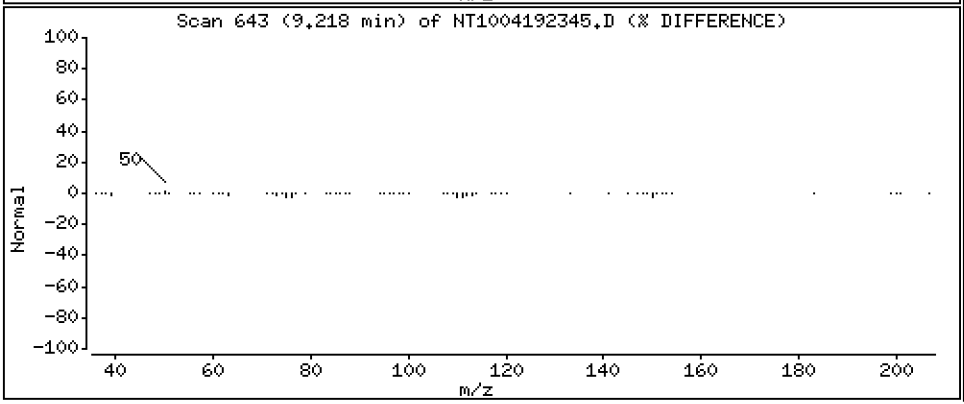












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

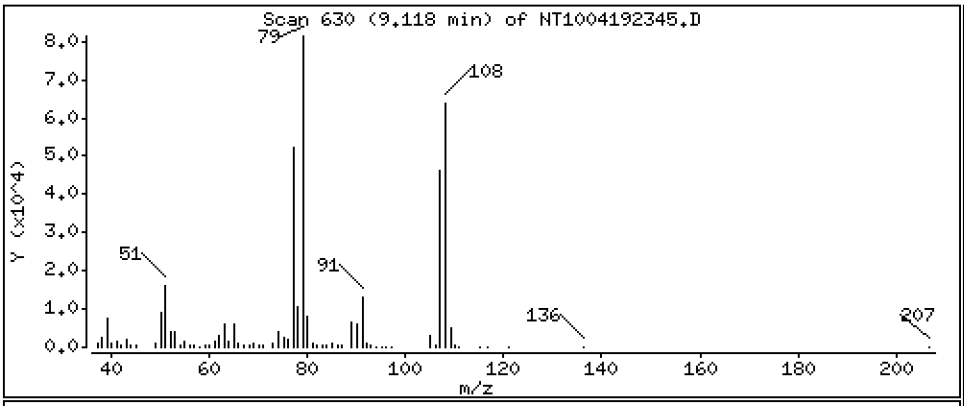
Operator: VTS

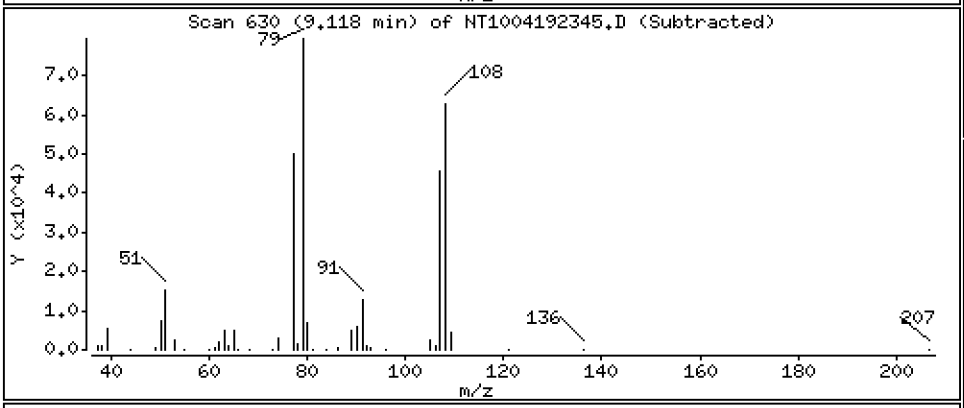
Column phase: ZB-5msi

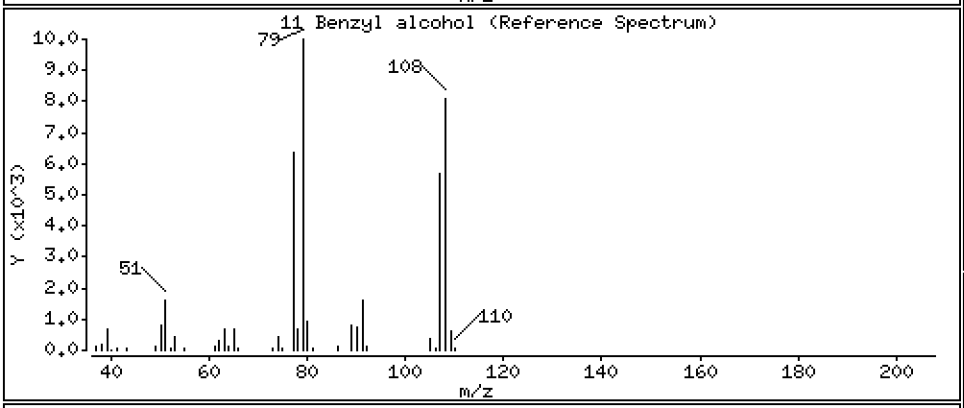
Column diameter: 0.25

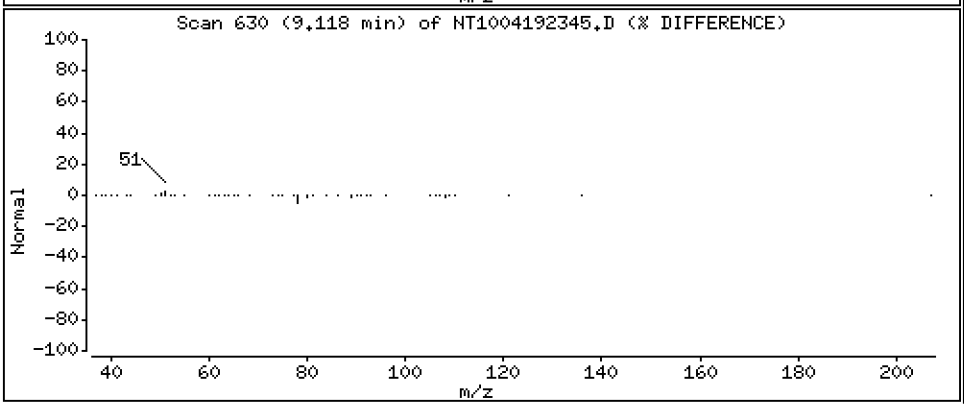
11 Benzyl alcohol

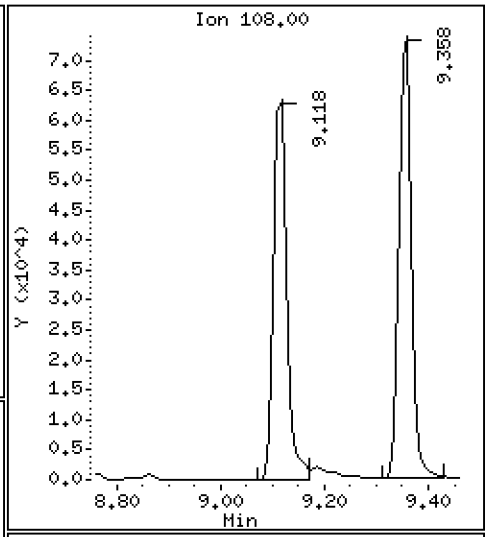
Concentration: 3.804 ug/mL

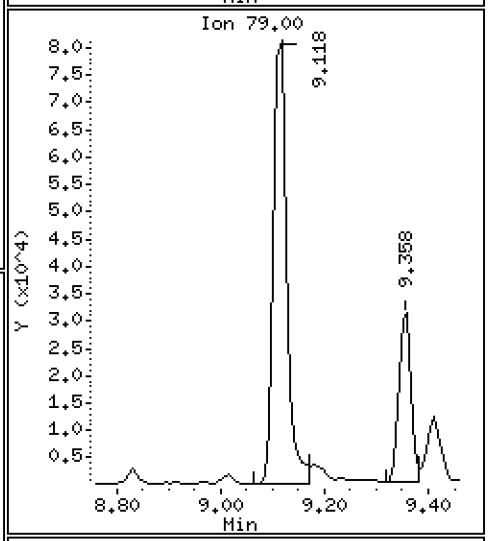


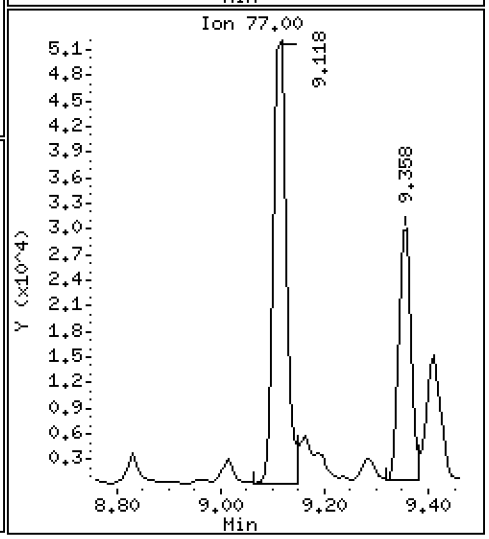












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

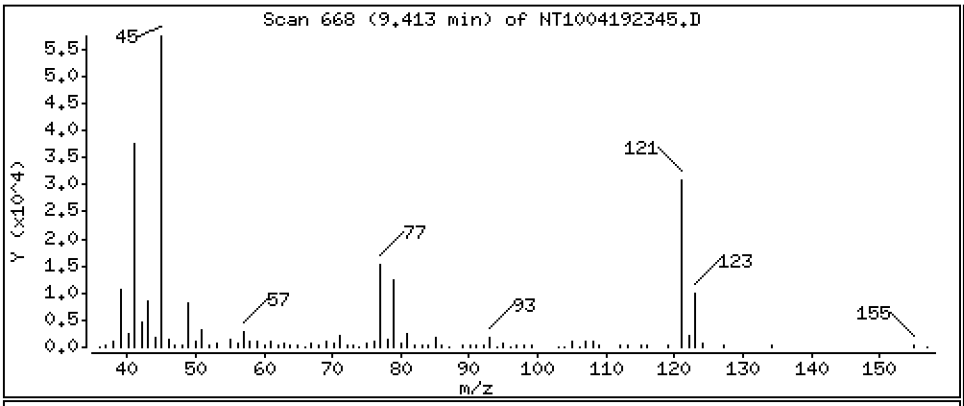
Operator: VTS

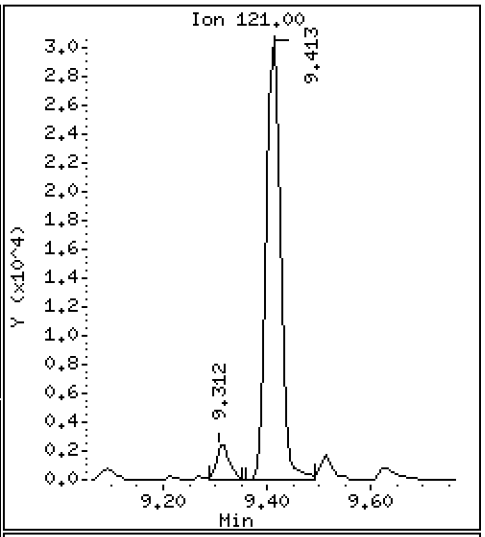
Column phase: ZB-5msi

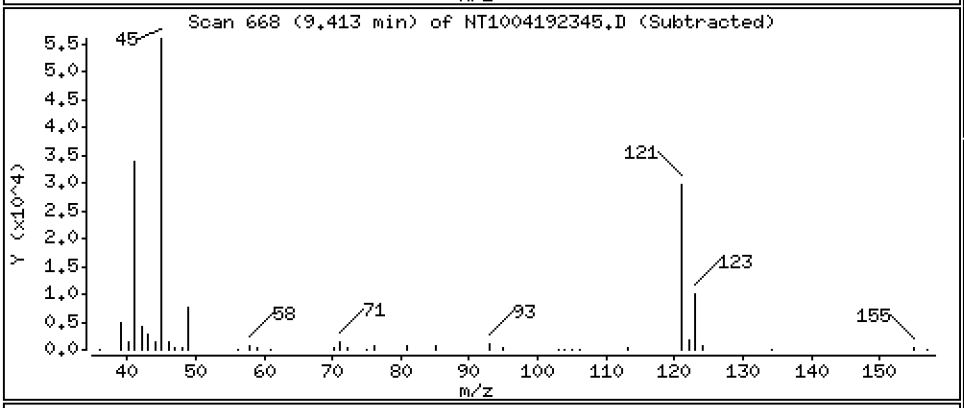
Column diameter: 0.25

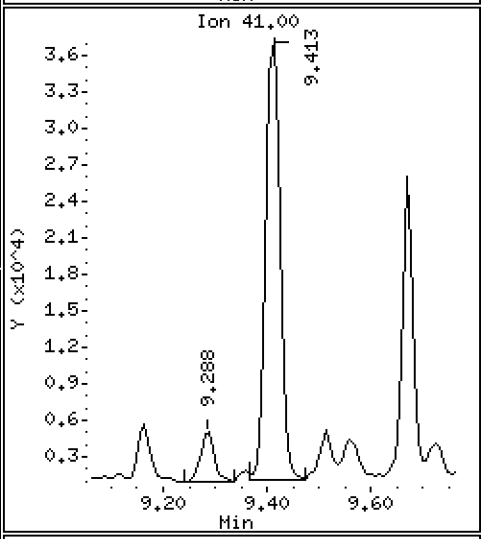
14 2,2'-oxybis(1-Chloropropane)

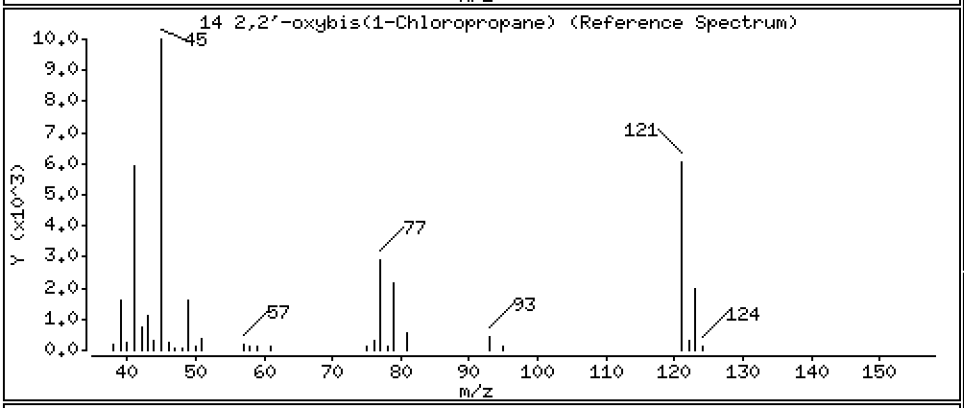
Concentration: 3.699 ug/mL

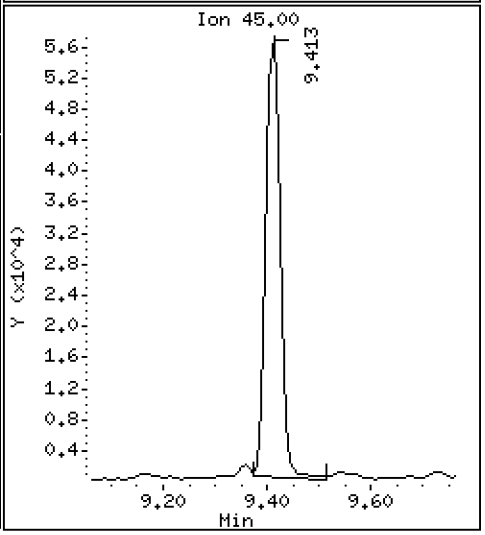


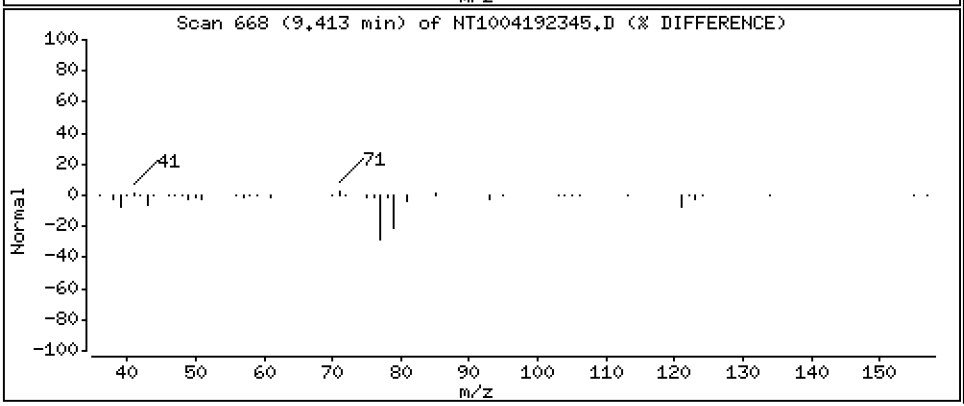












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

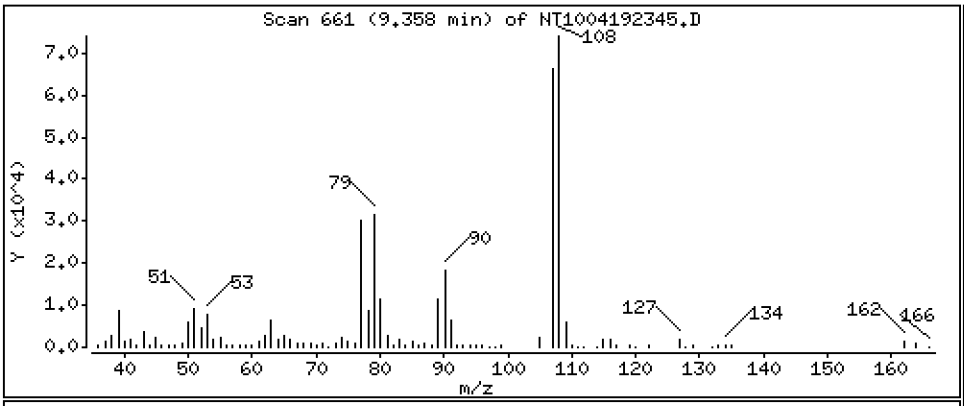
Operator: VTS

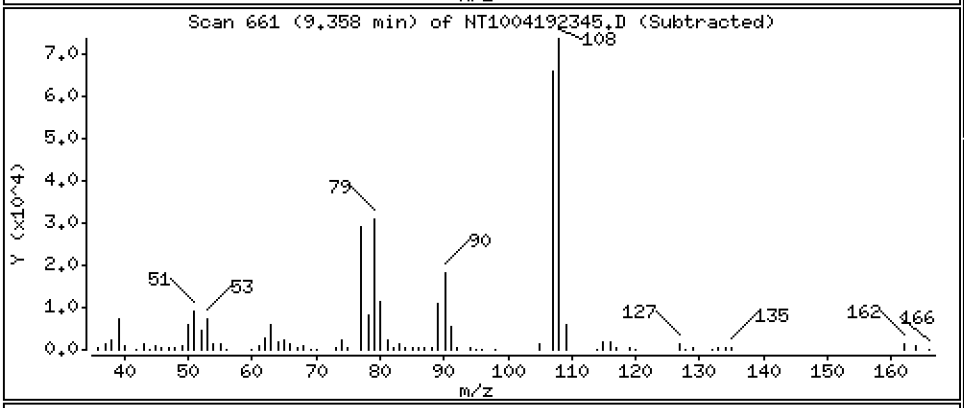
Column phase: ZB-5msi

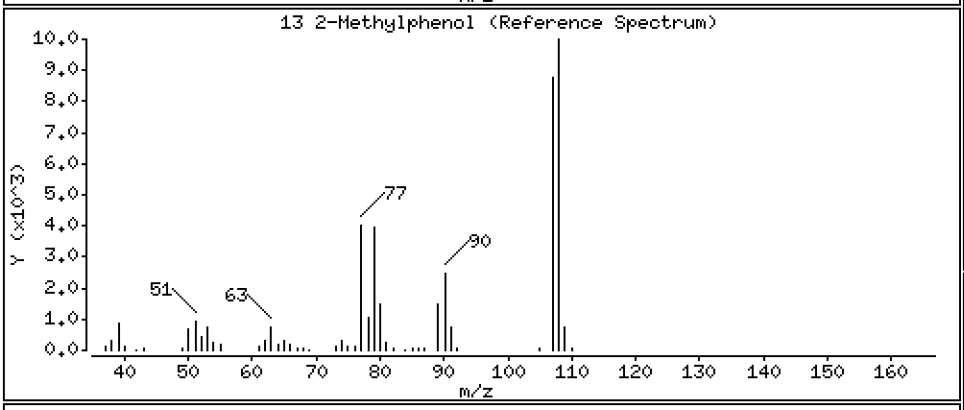
Column diameter: 0.25

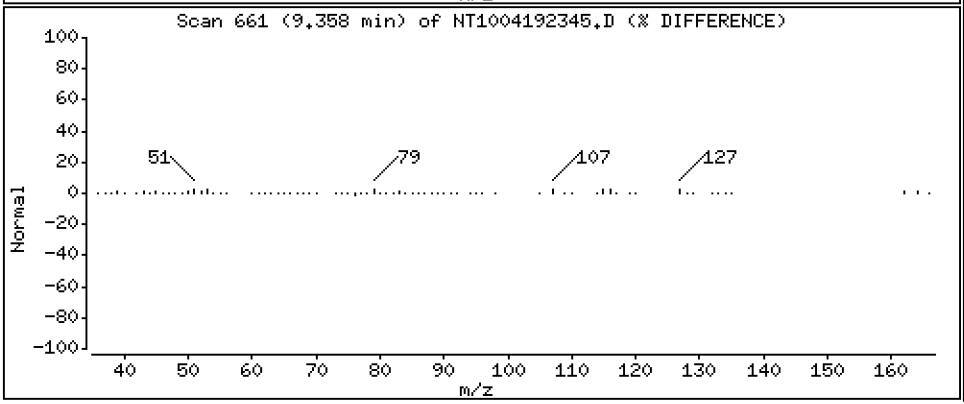
13 2-Methylphenol

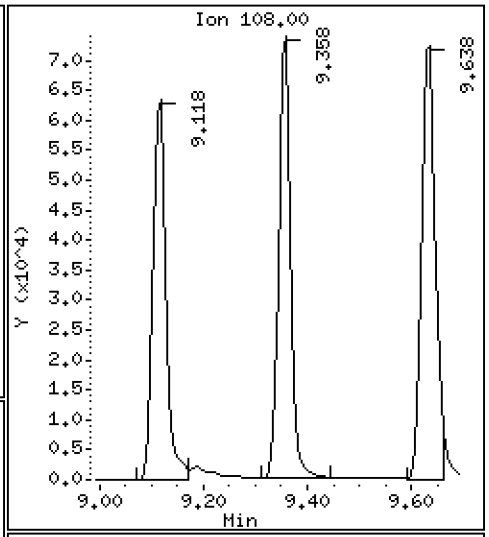
Concentration: 2.690 ug/mL

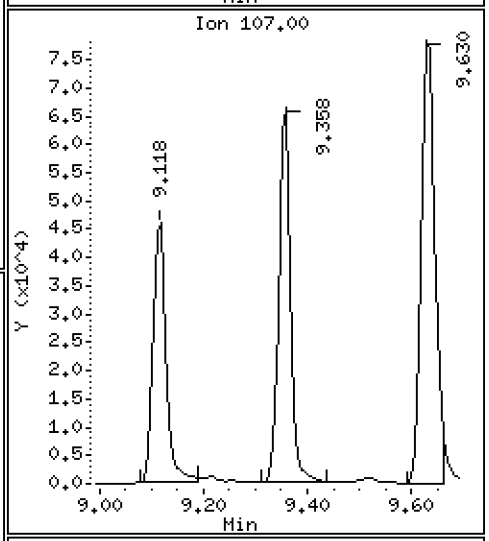


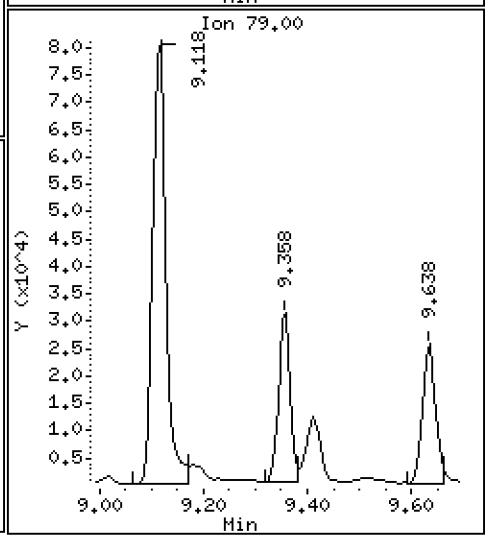












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

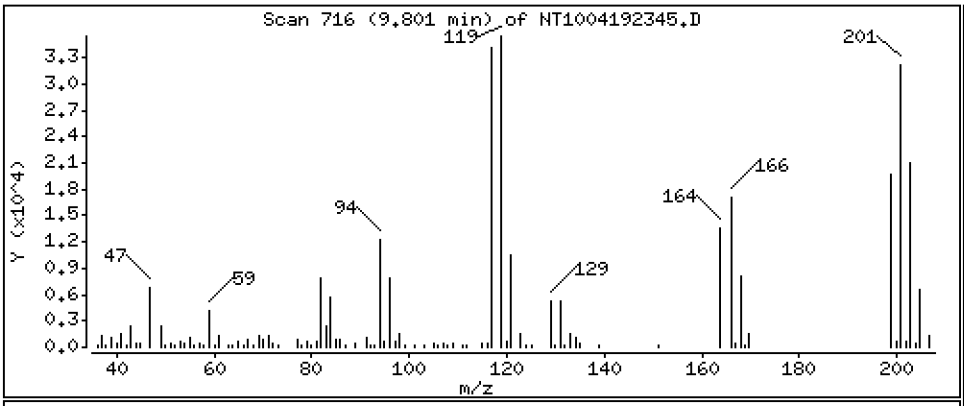
Operator: VTS

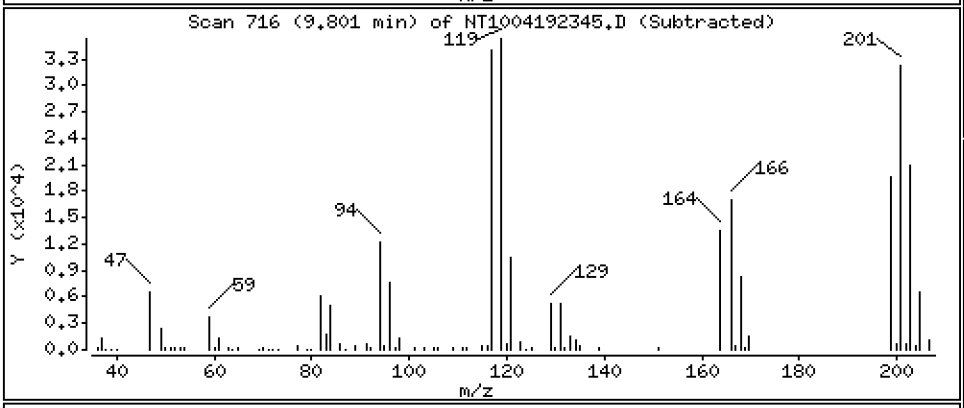
Column phase: ZB-5msi

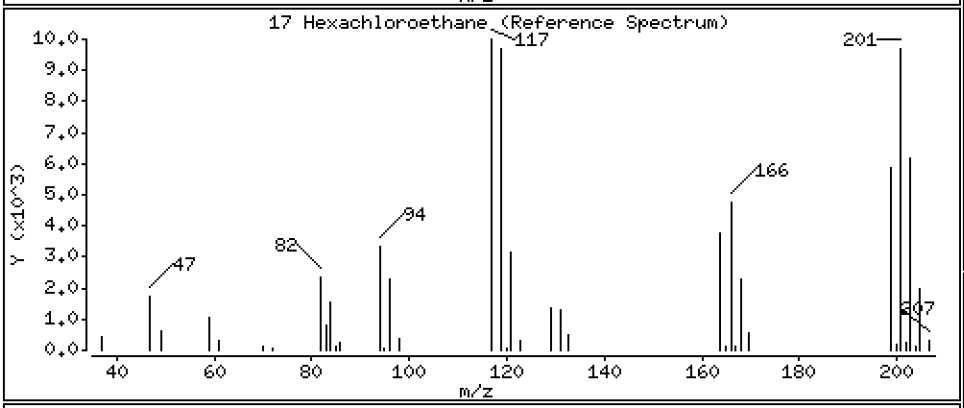
Column diameter: 0.25

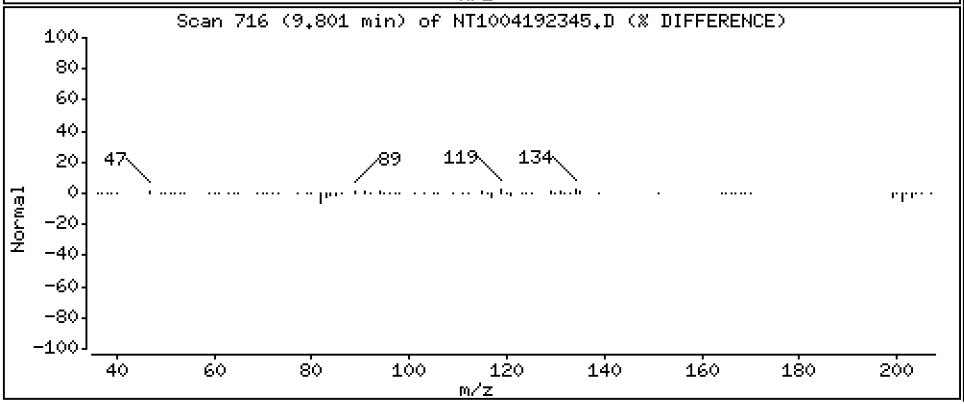
17 Hexachloroethane

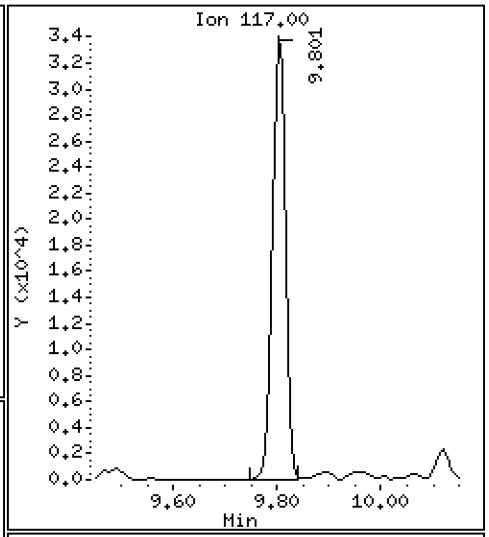
Concentration: 2.622 ug/mL

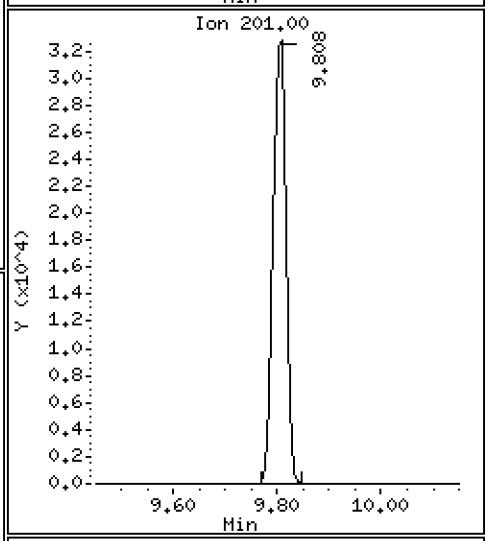


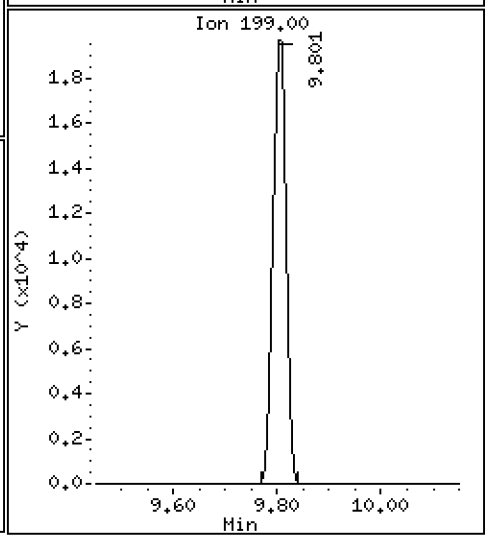












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

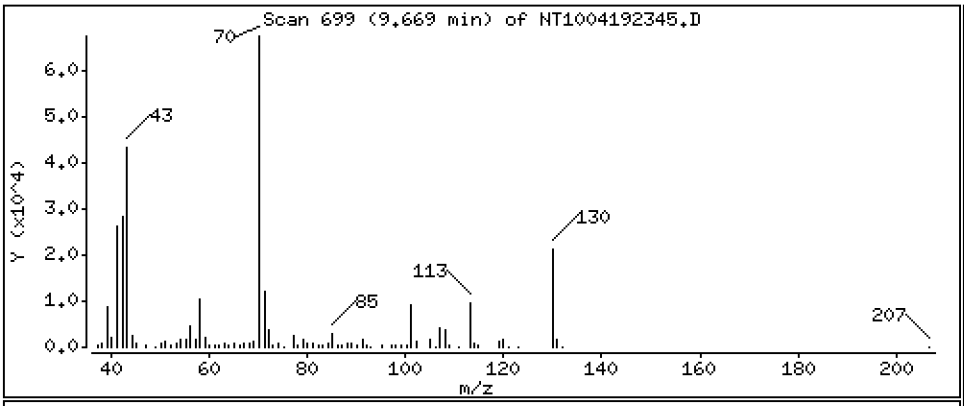
Operator: VTS

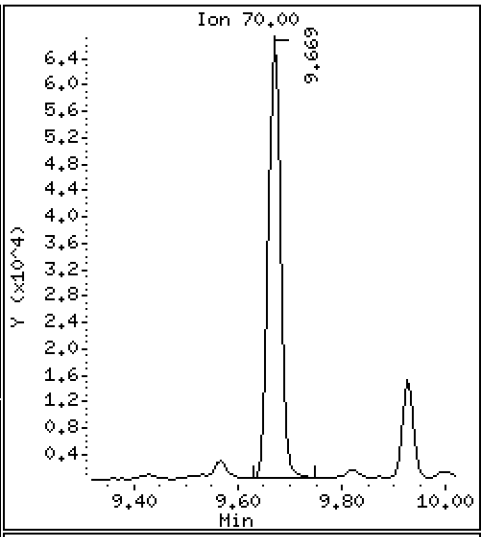
Column phase: ZB-5msi

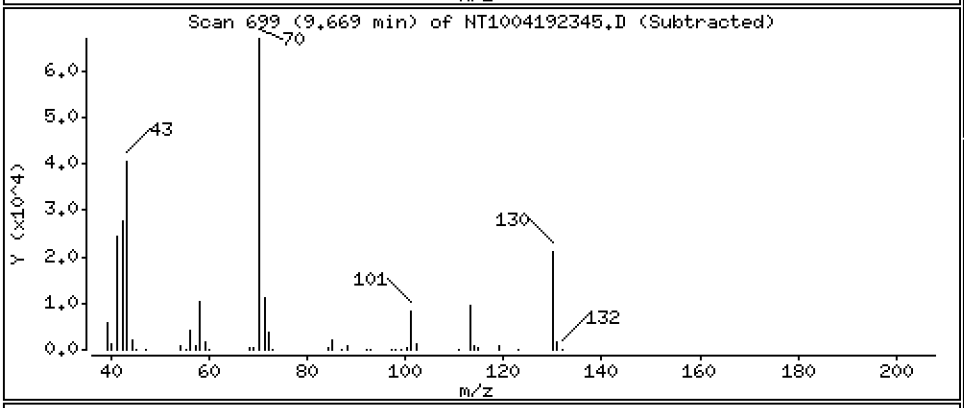
Column diameter: 0.25

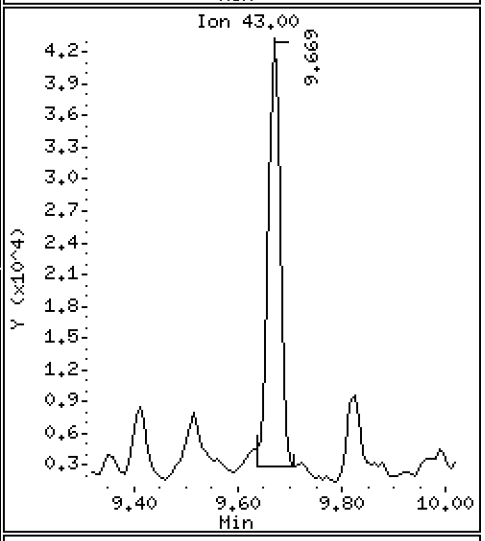
16 N-Nitroso-di-n-propylamine

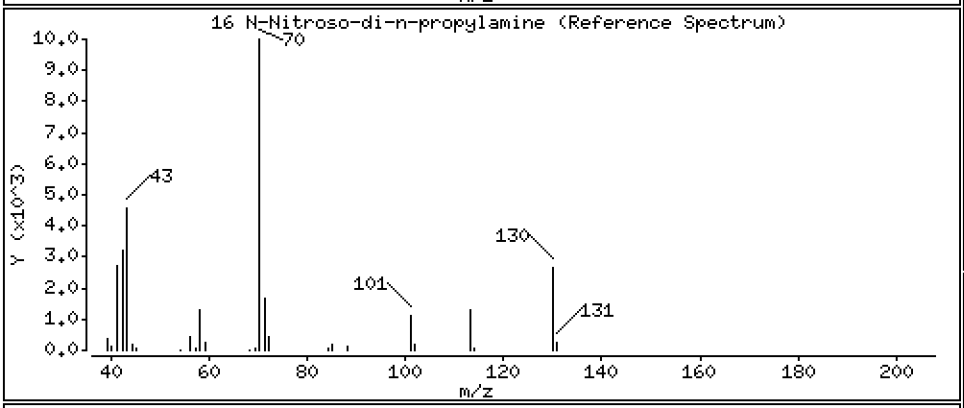
Concentration: 3.011 ug/mL

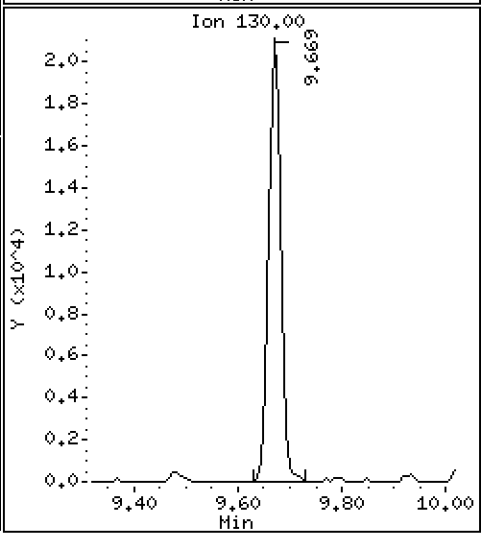


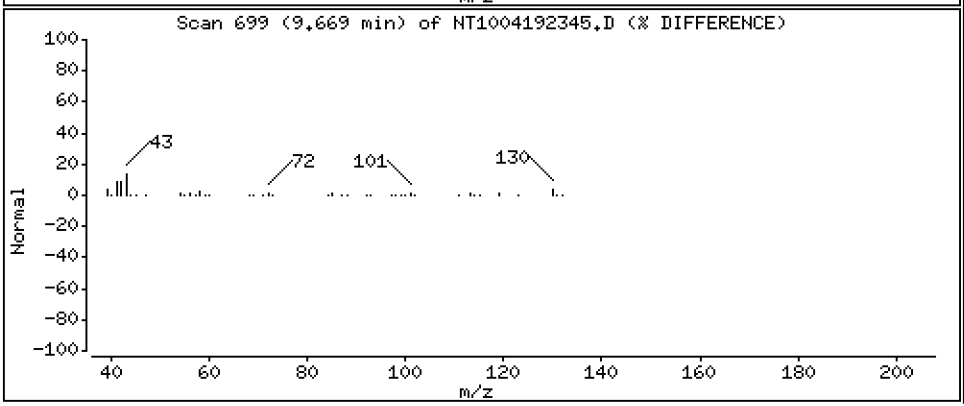












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

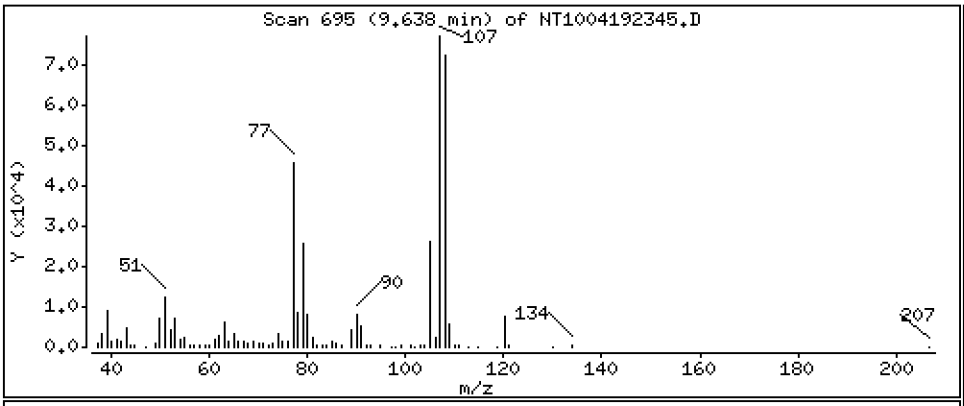
Operator: VTS

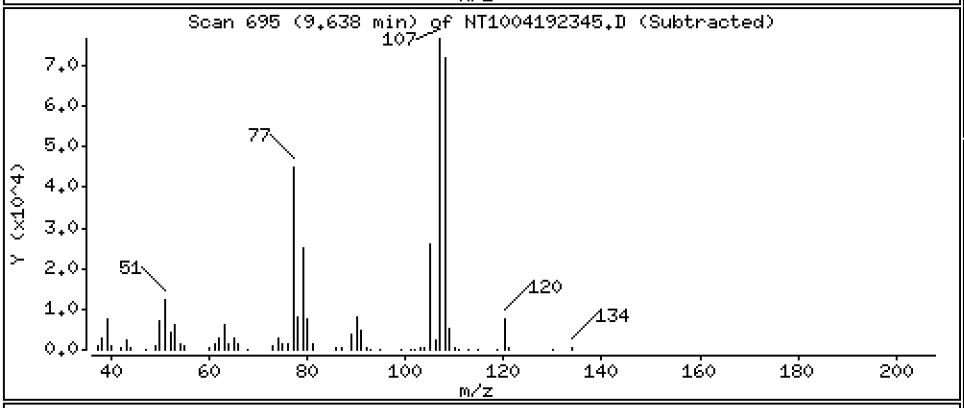
Column phase: ZB-5msi

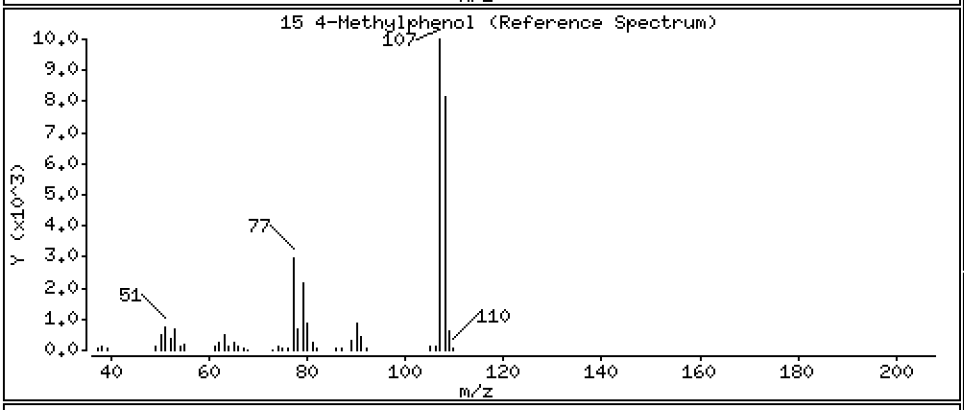
Column diameter: 0.25

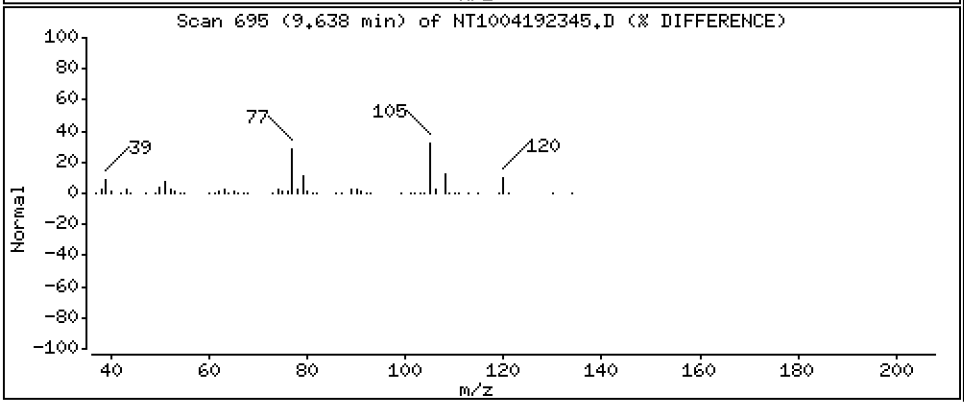
15 4-Methylphenol

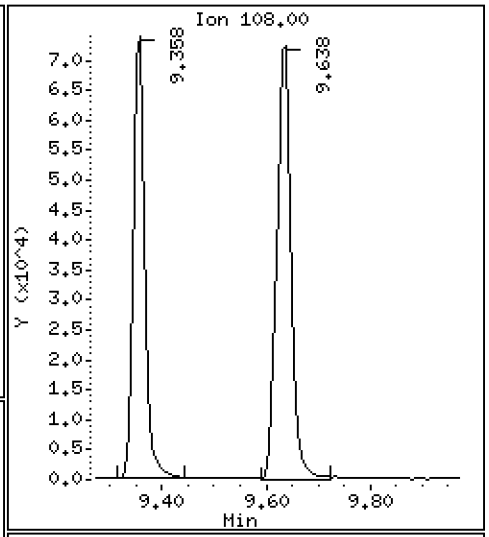
Concentration: 2.990 ug/mL

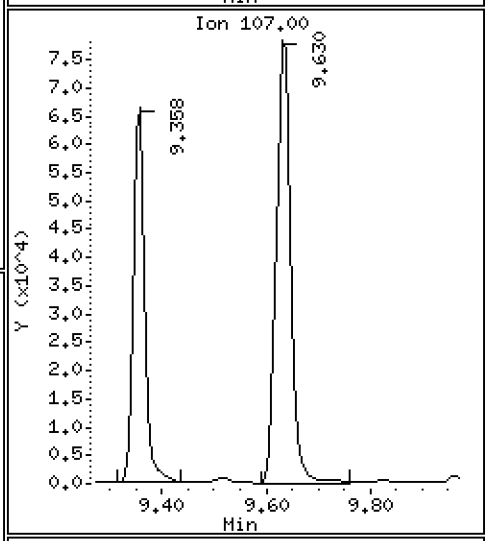


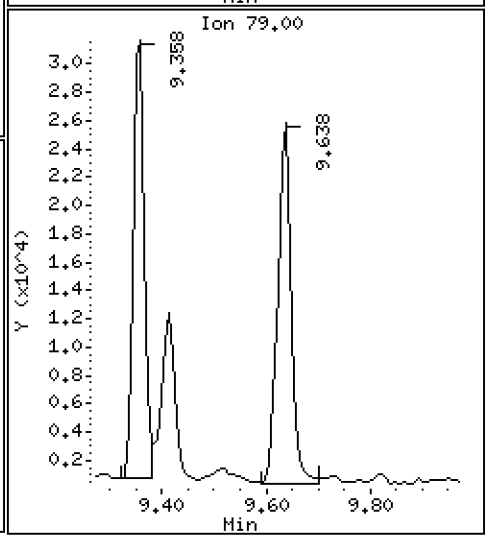












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

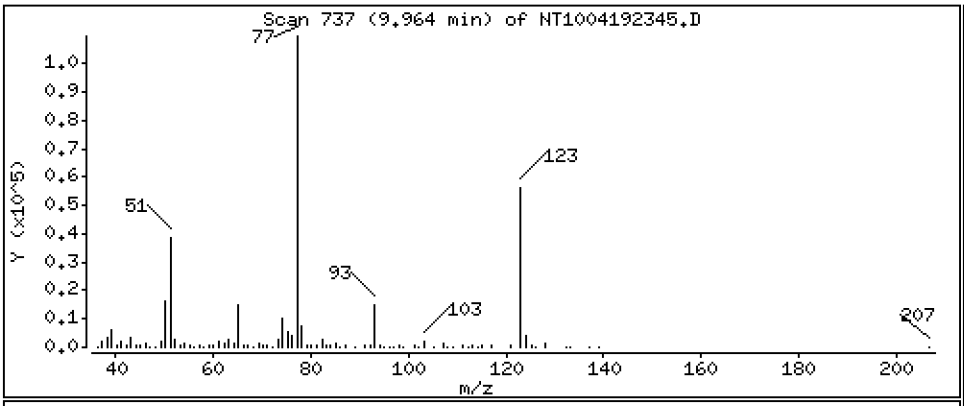
Operator: VTS

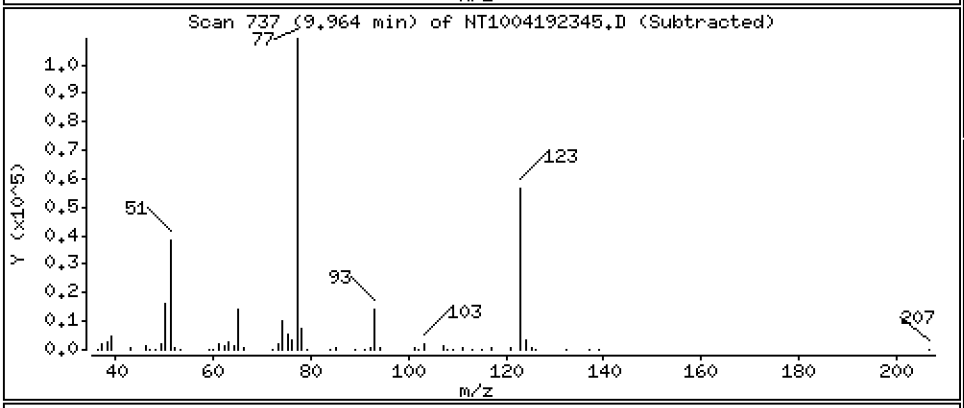
Column phase: ZB-5msi

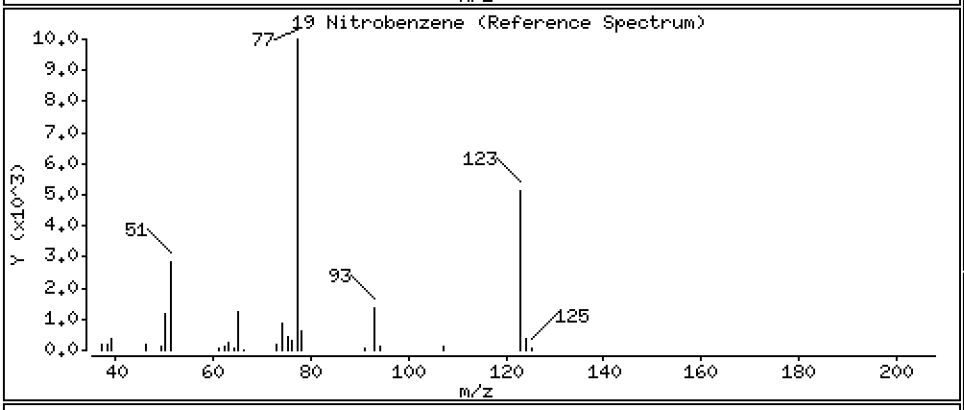
Column diameter: 0.25

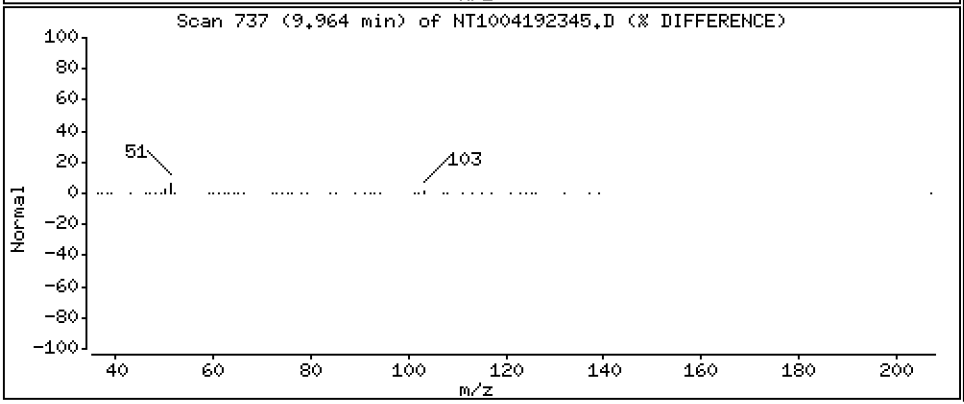
19 Nitrobenzene

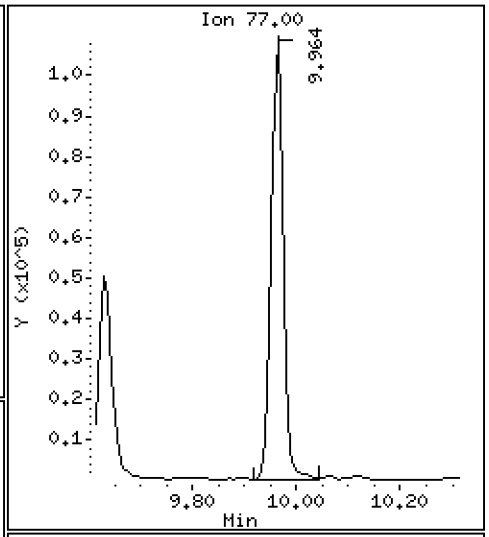
Concentration: 3.060 ug/mL

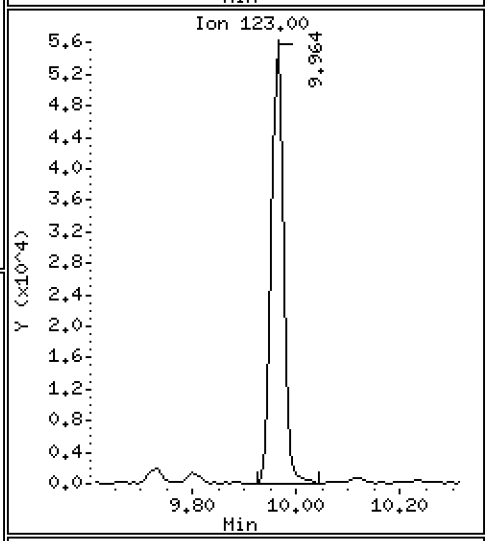


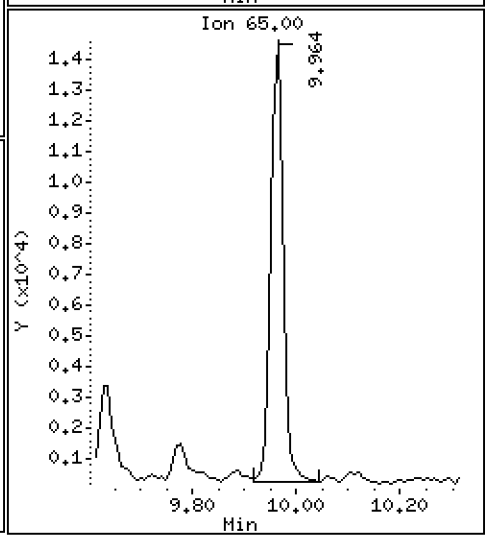












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

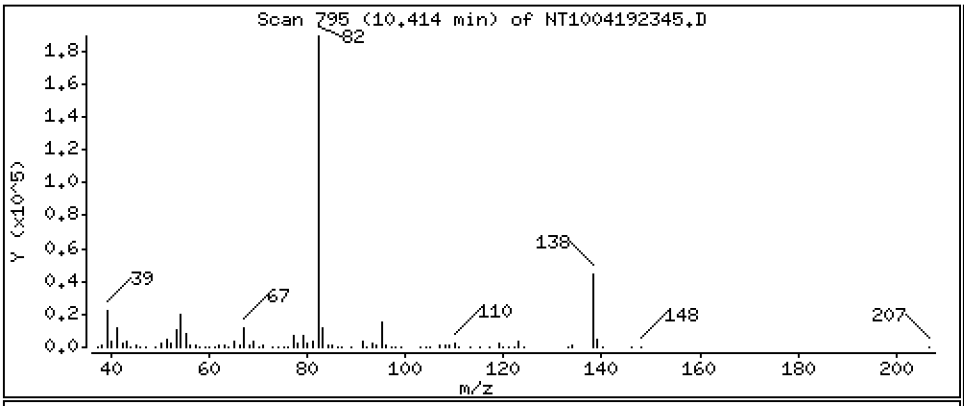
Operator: VTS

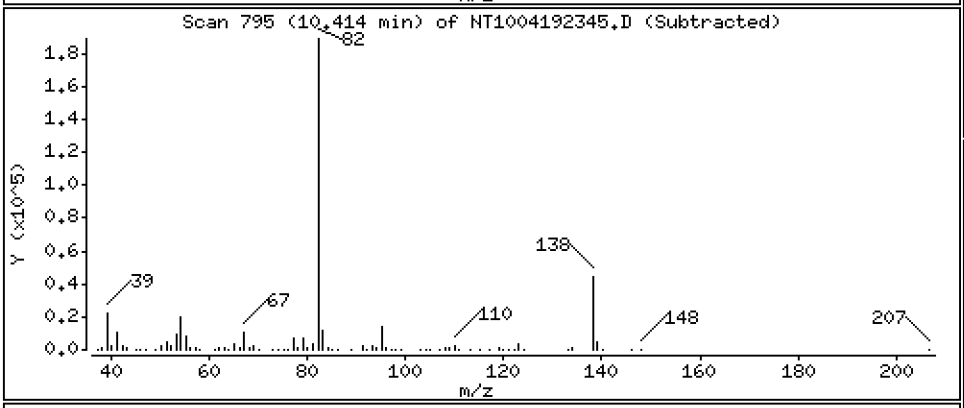
Column phase: ZB-5msi

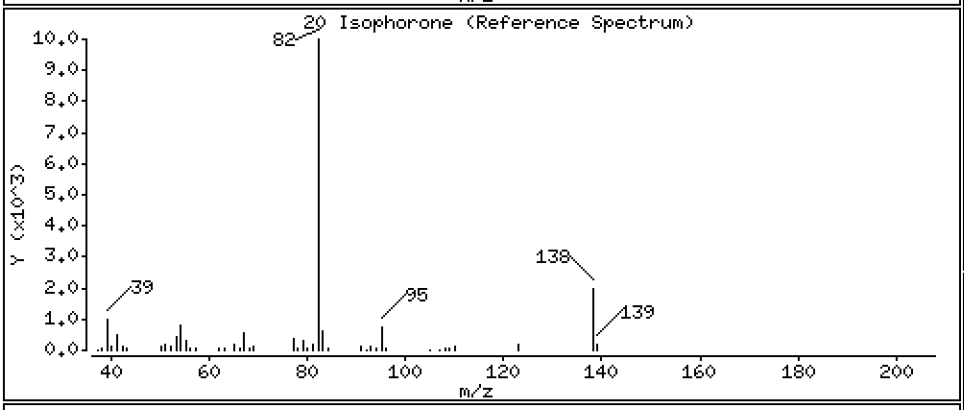
Column diameter: 0.25

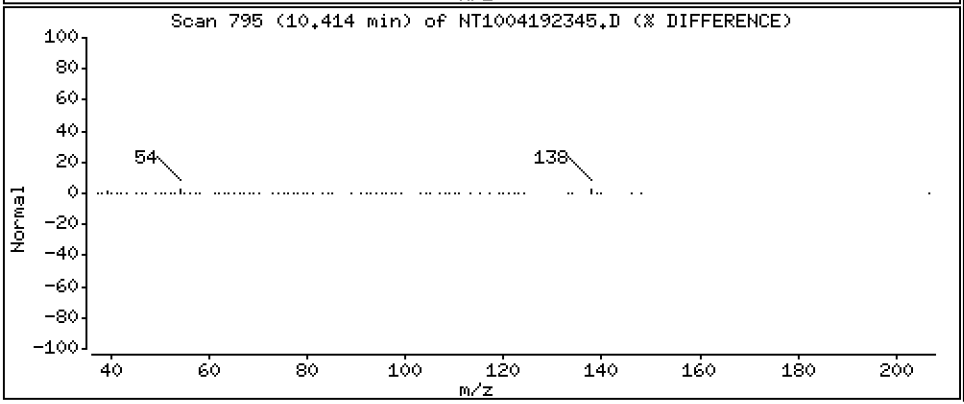
20 Isophorone

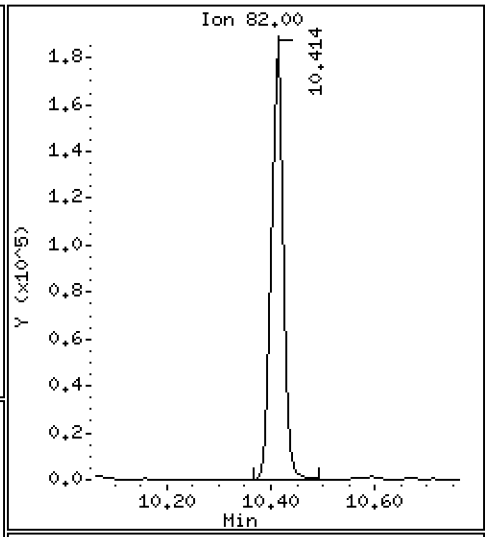
Concentration: 4.161 ug/mL

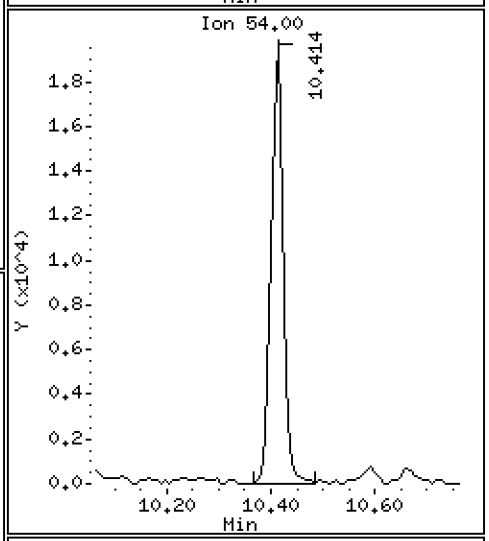


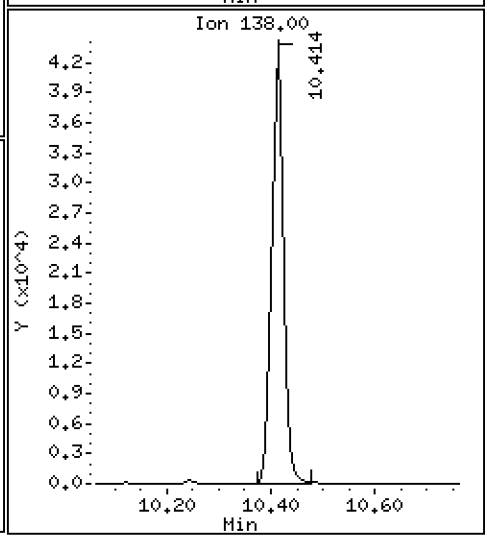












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

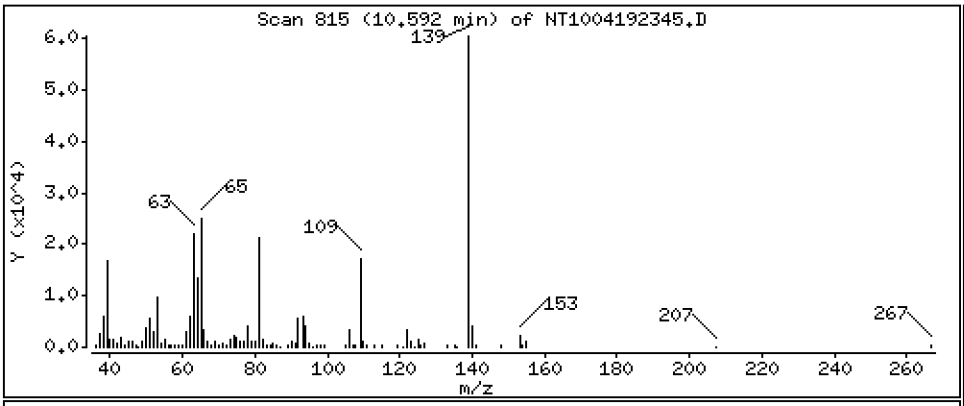
Operator: VTS

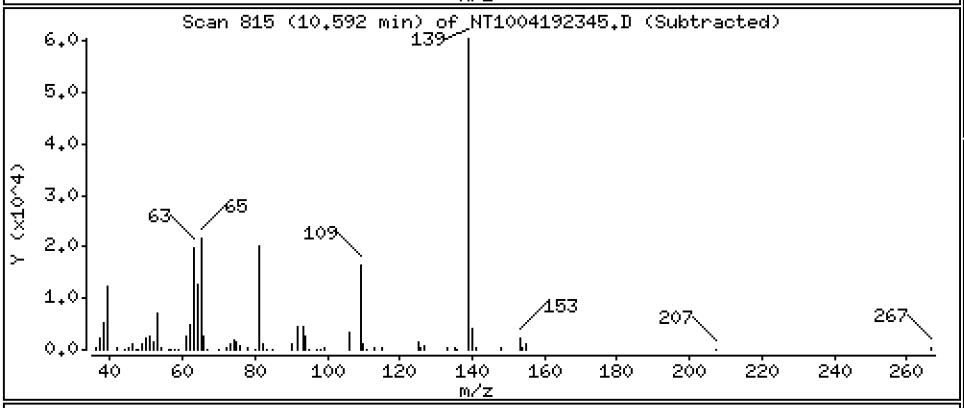
Column phase: ZB-5msi

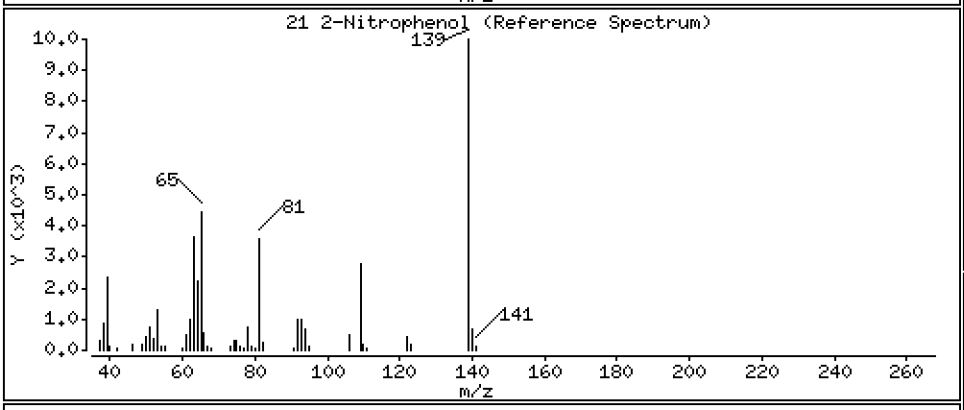
Column diameter: 0.25

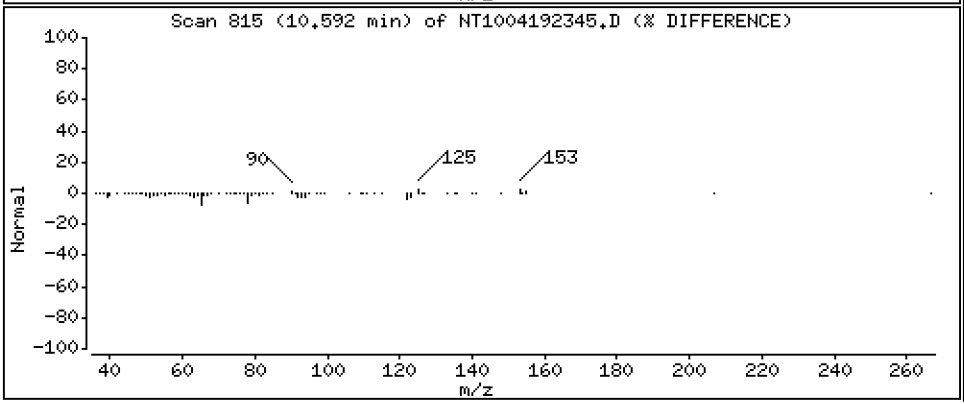
21 2-Nitrophenol

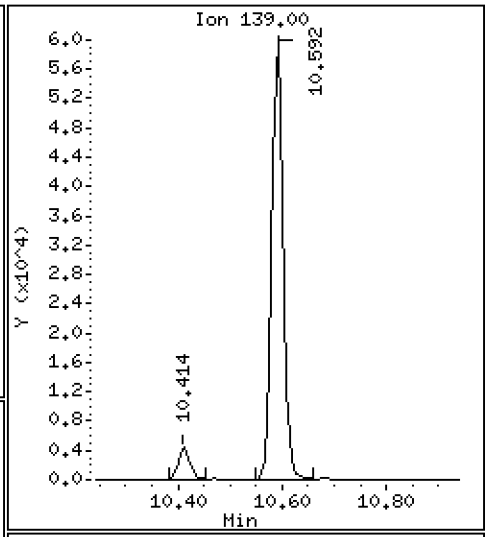
Concentration: 3.456 ug/mL

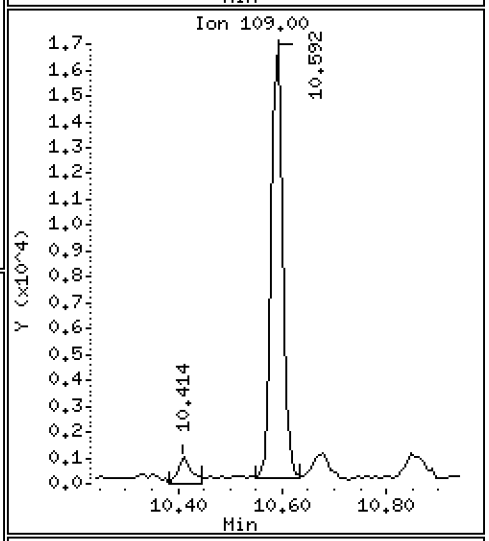


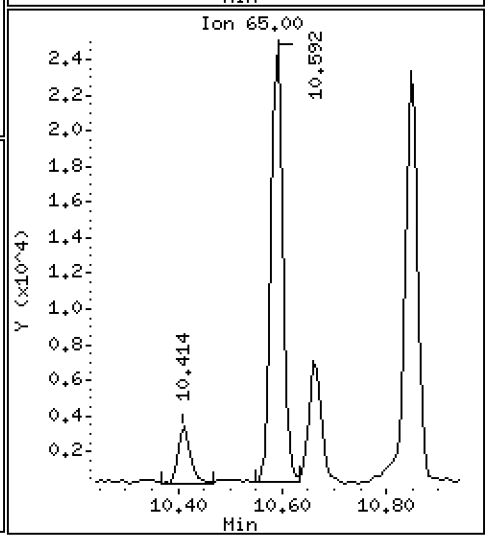












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

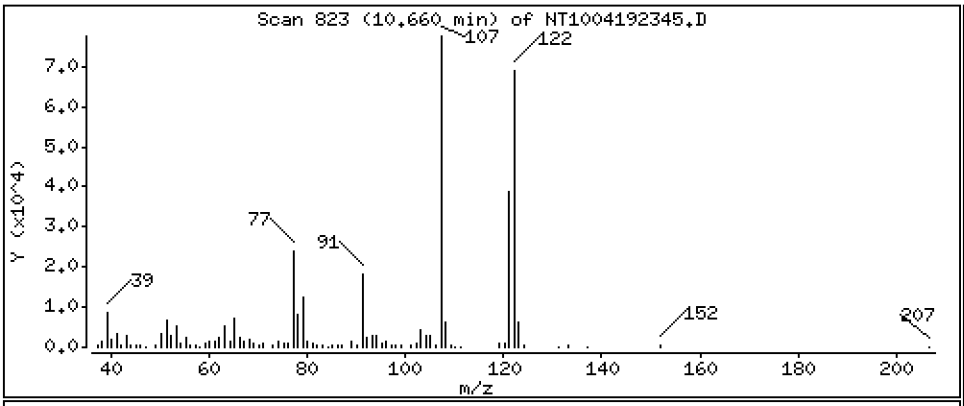
Operator: VTS

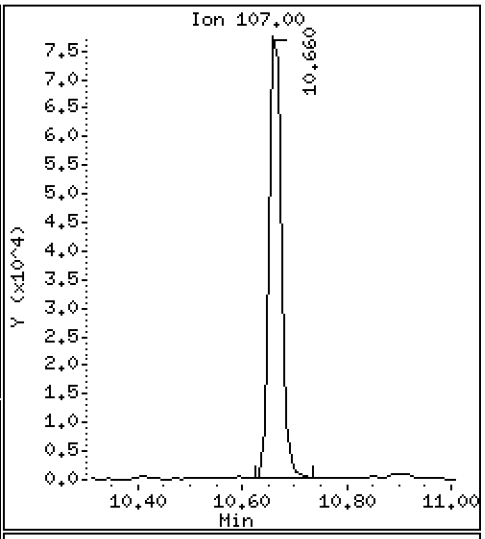
Column phase: ZB-5msi

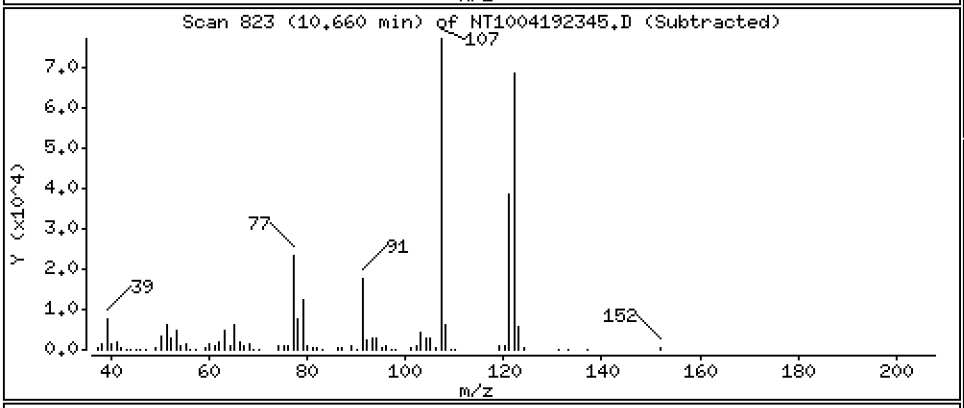
Column diameter: 0.25

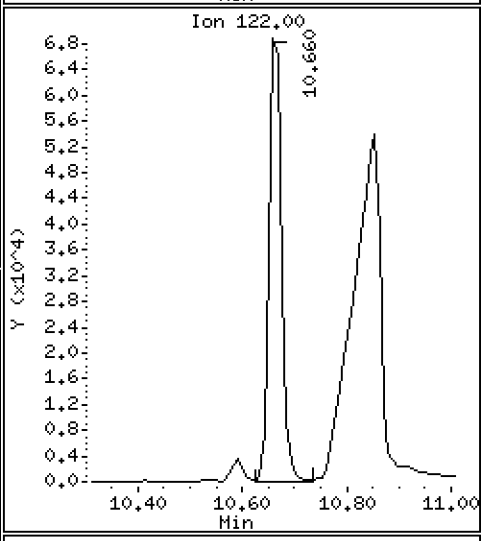
22 2,4-Dimethylphenol

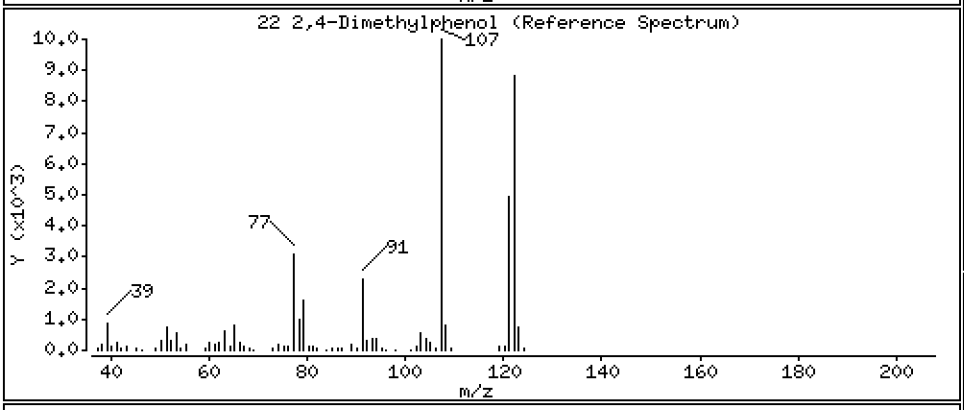
Concentration: 2.594 ug/mL

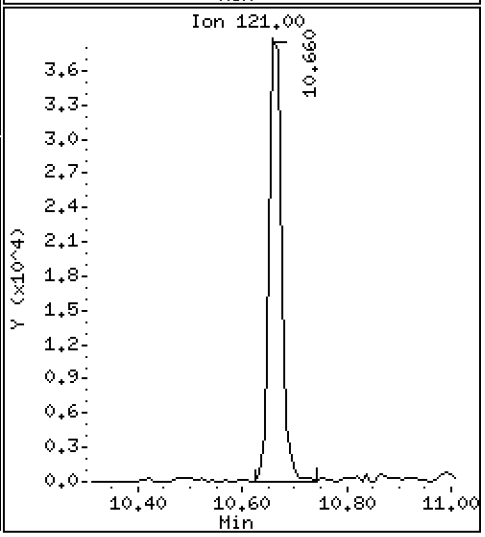


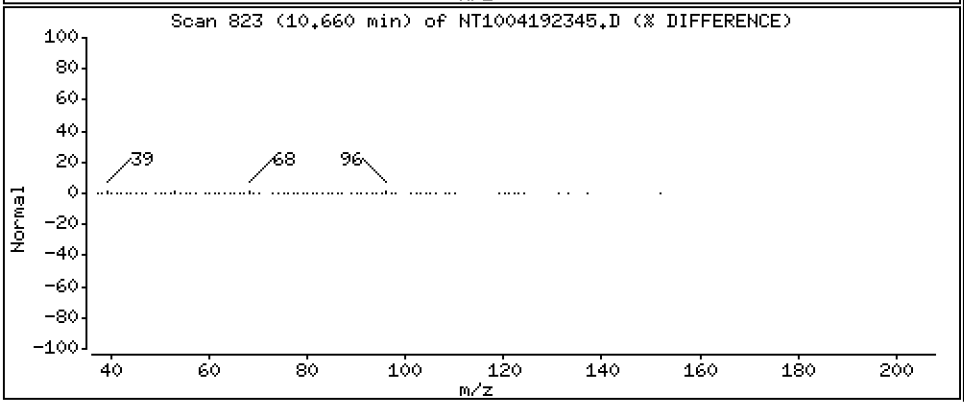












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

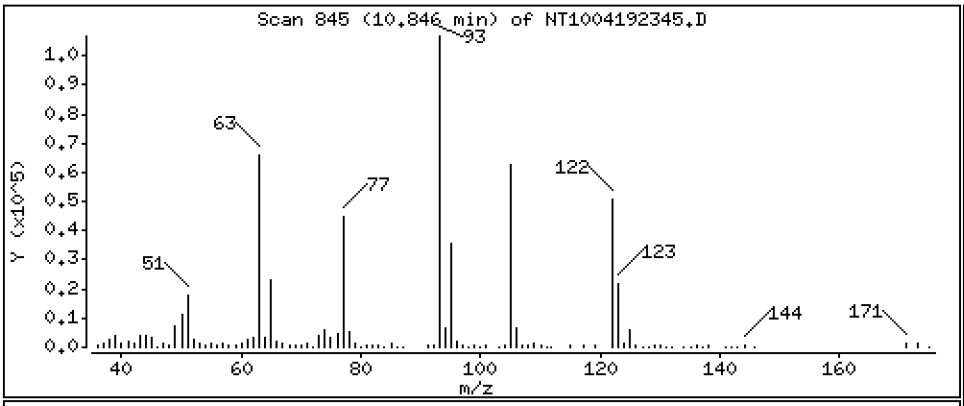
Operator: VTS

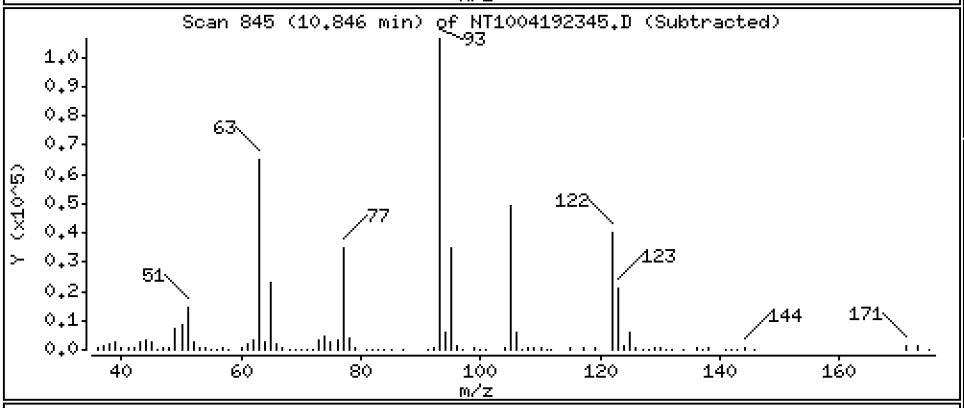
Column phase: ZB-5msi

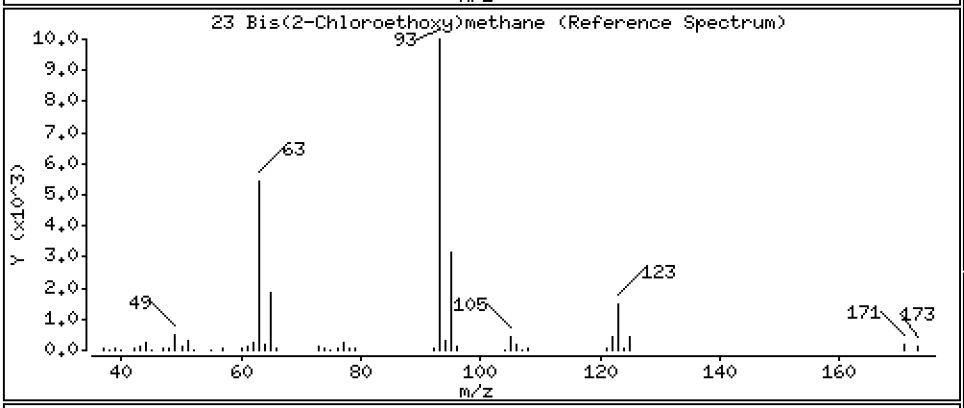
Column diameter: 0.25

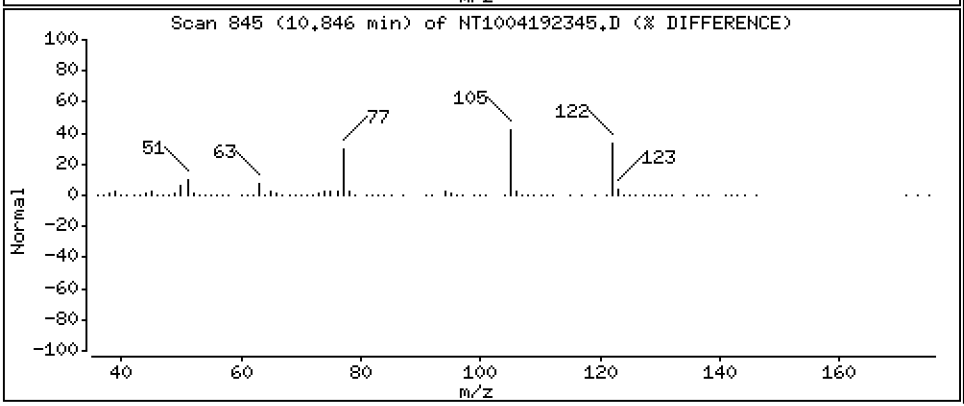
23 Bis(2-Chloroethoxy)methane

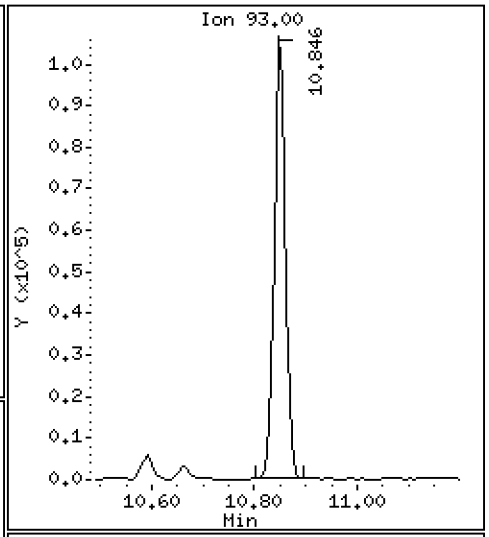
Concentration: 3.603 ug/mL

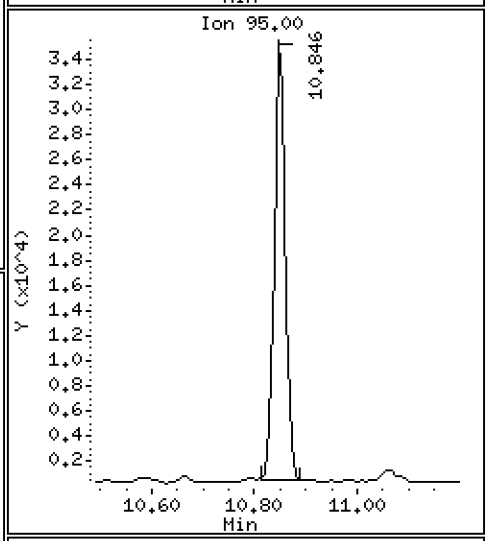


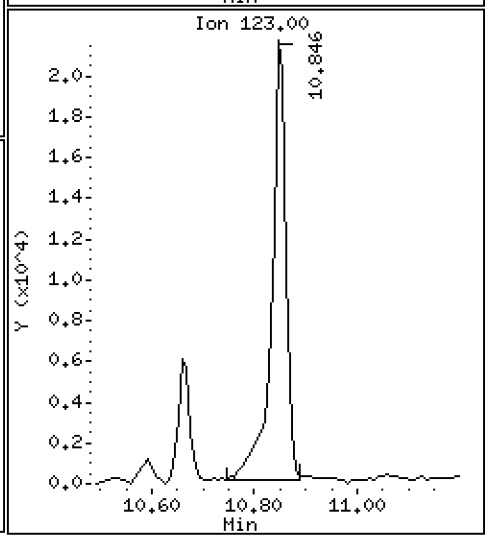












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

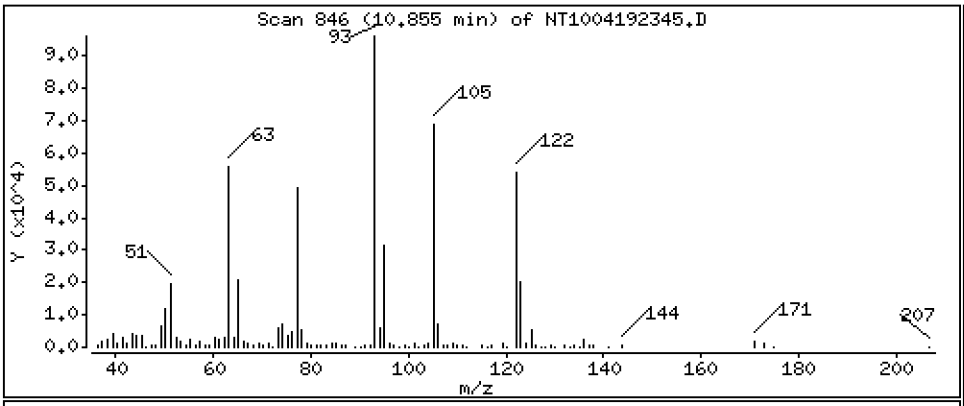
Operator: VTS

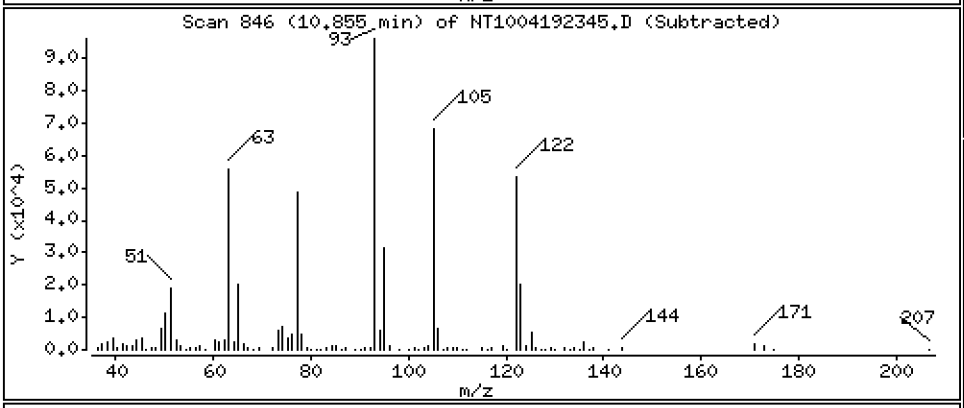
Column phase: ZB-5msi

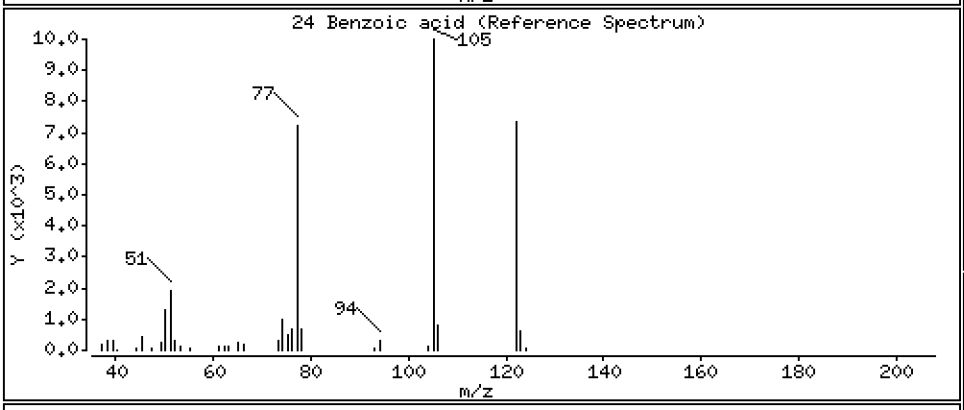
Column diameter: 0.25

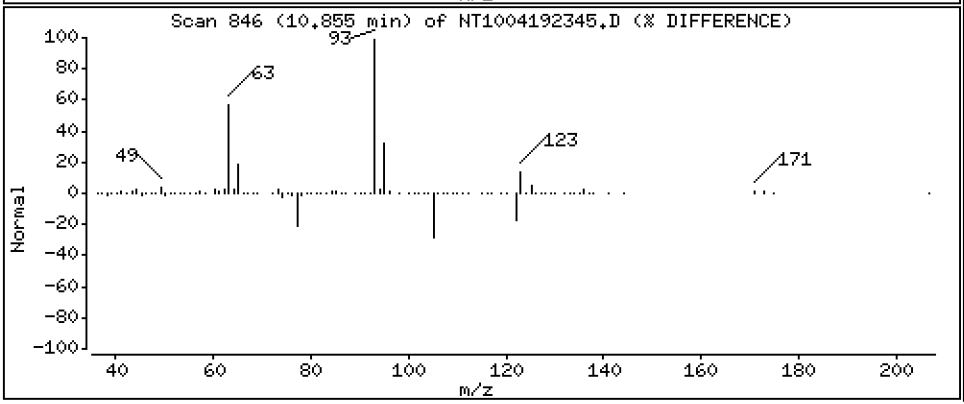
24 Benzoic acid

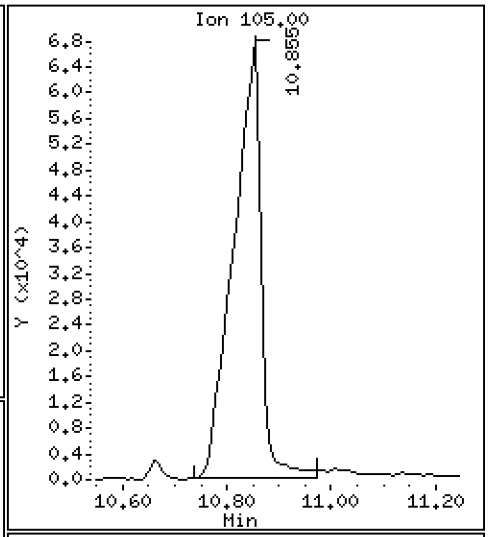
Concentration: 9.022 ug/mL

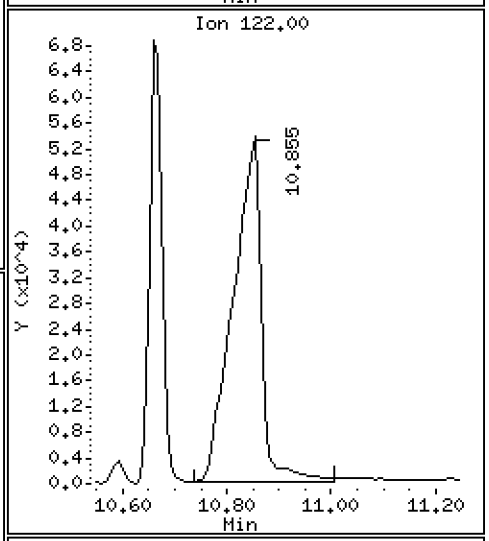


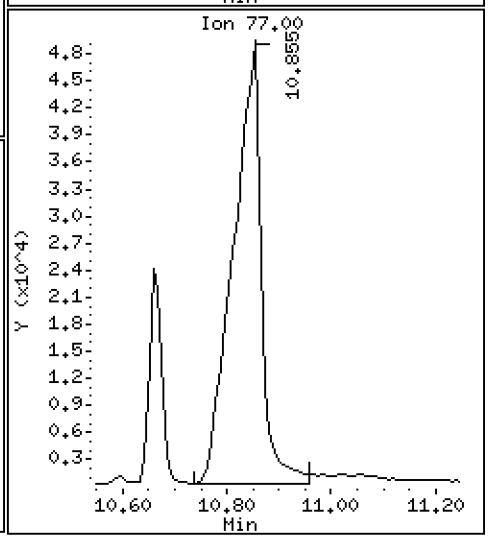












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

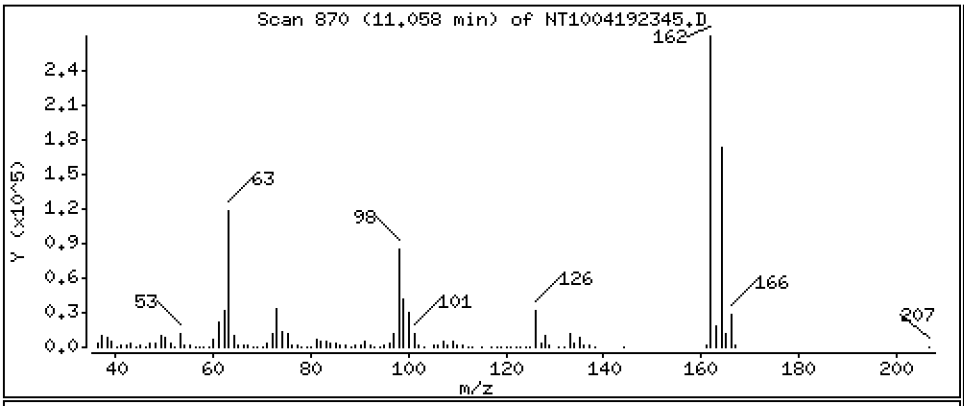
Operator: VTS

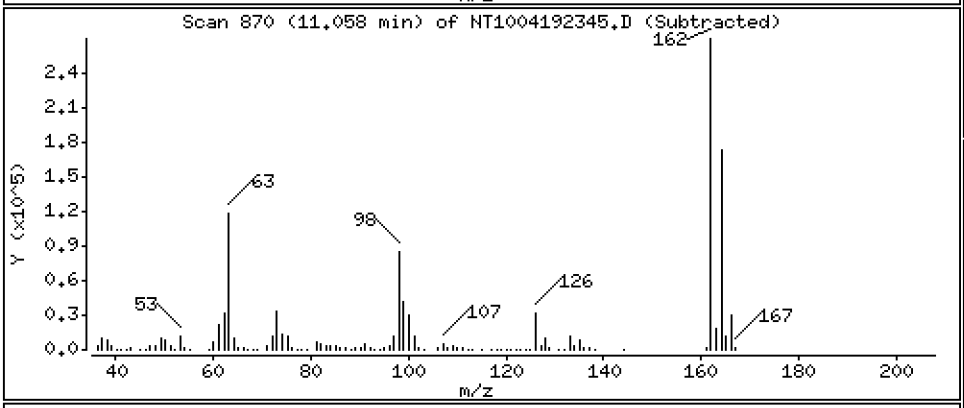
Column phase: ZB-5msi

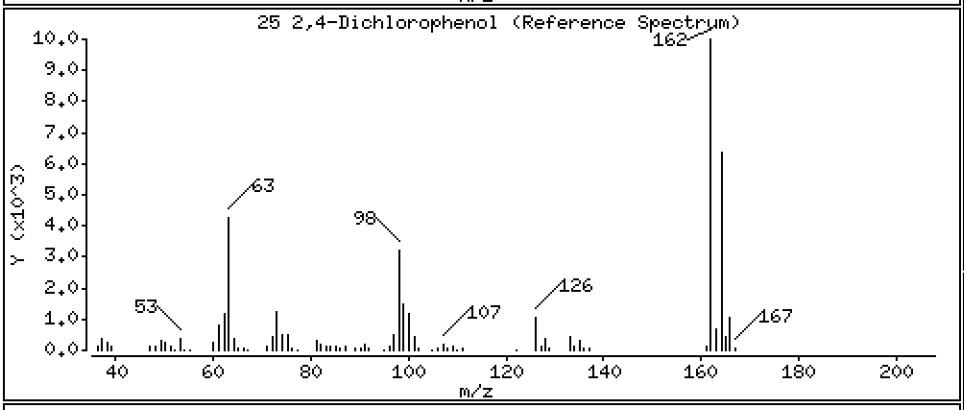
Column diameter: 0.25

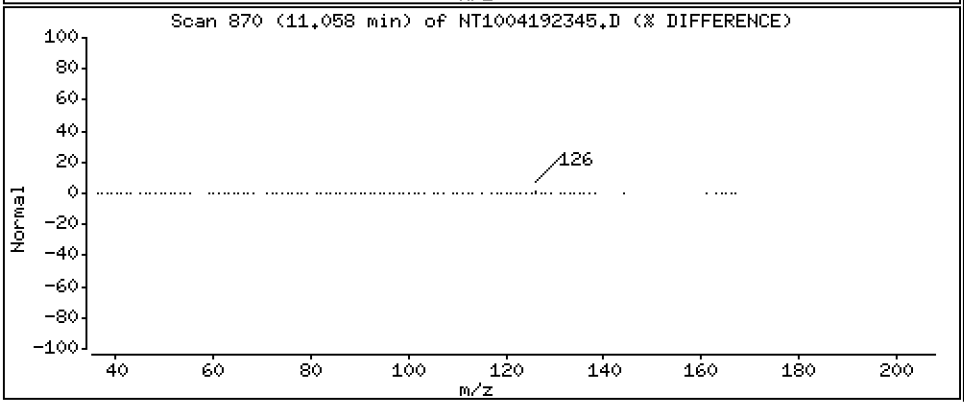
25 2,4-Dichlorophenol

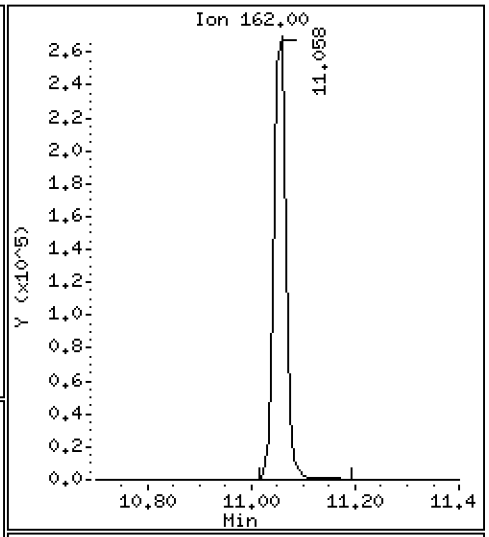
Concentration: 12.21 ug/mL

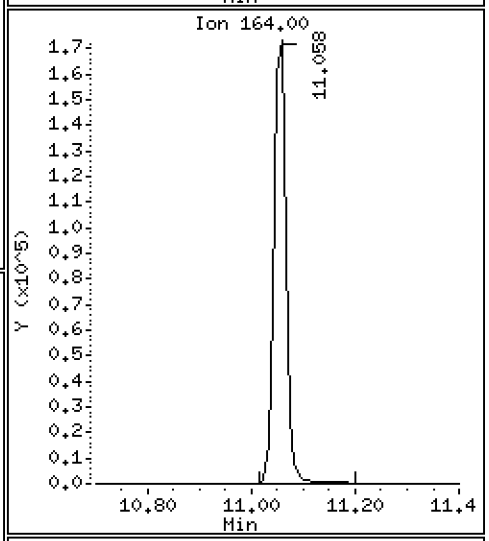


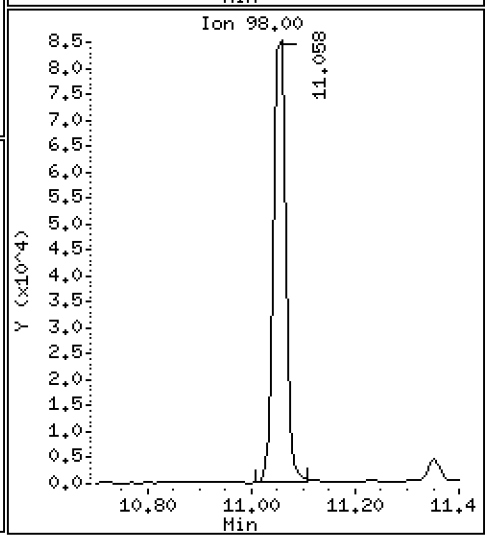












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

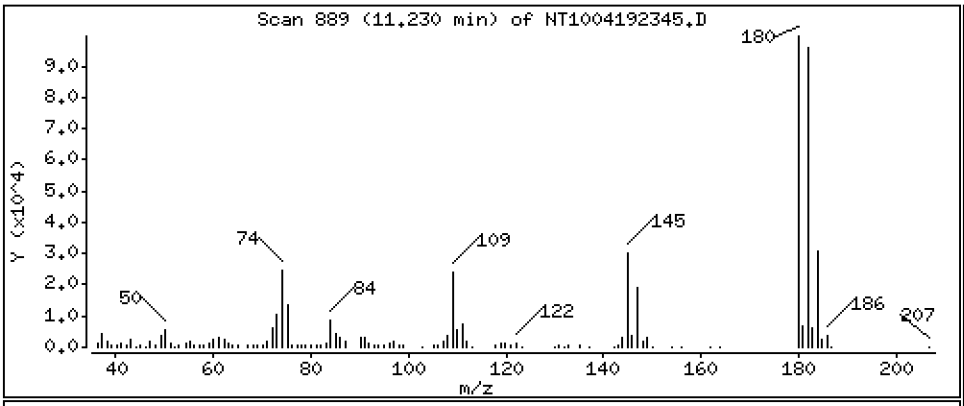
Operator: VTS

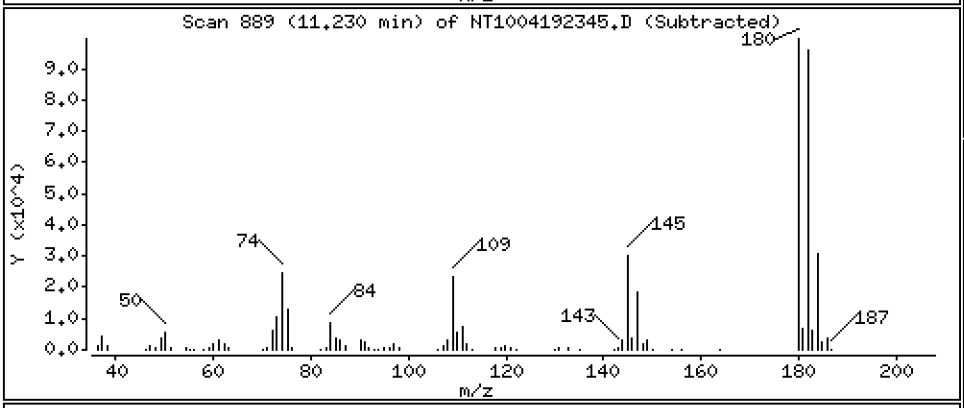
Column phase: ZB-5msi

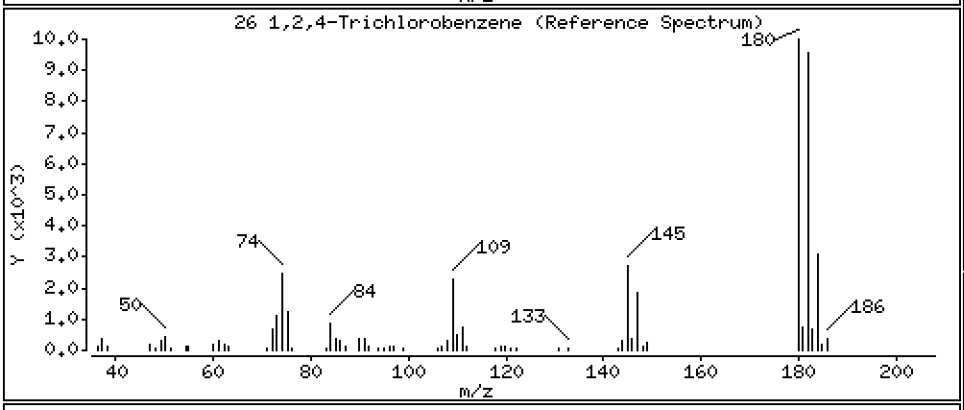
Column diameter: 0.25

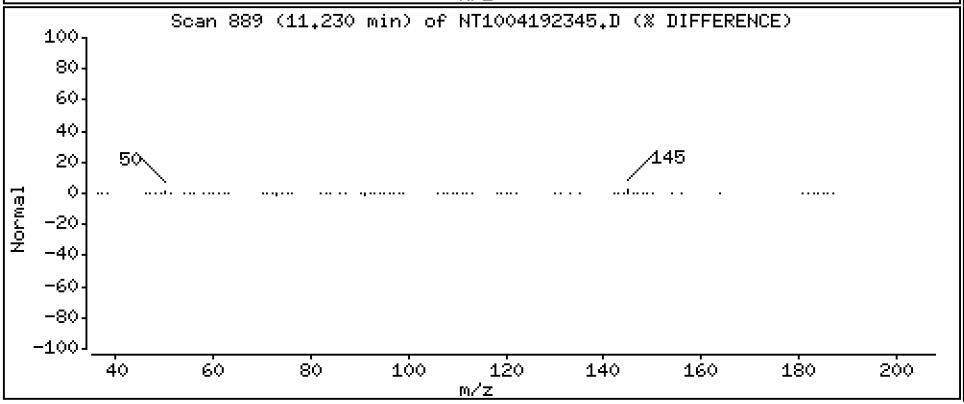
26 1,2,4-Trichlorobenzene

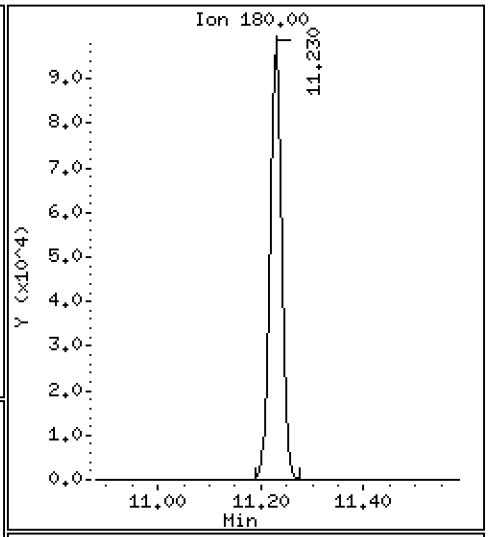
Concentration: 3.443 ug/mL

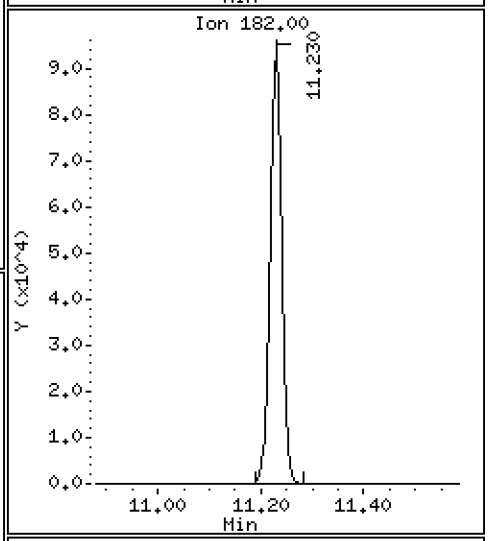


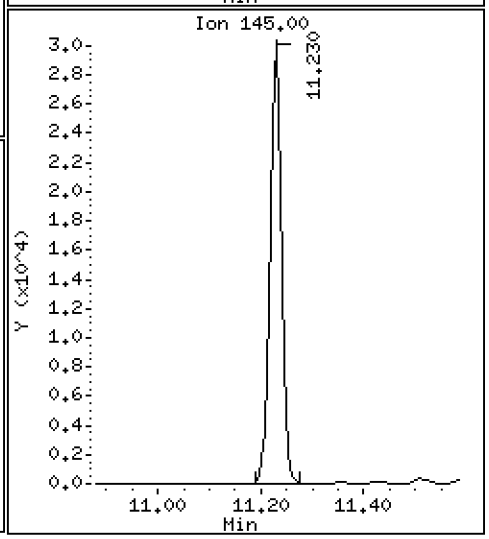












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192345.D

Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

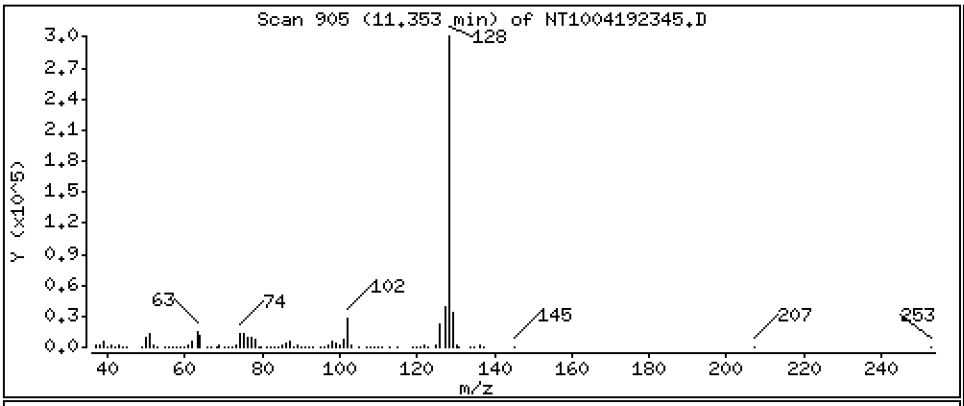
Operator: VTS

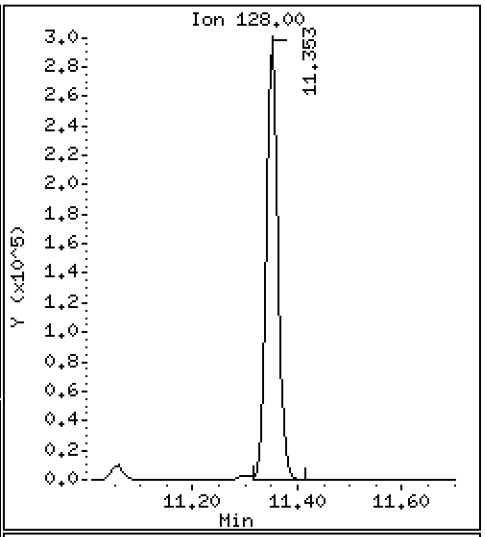
Column phase: ZB-5msi

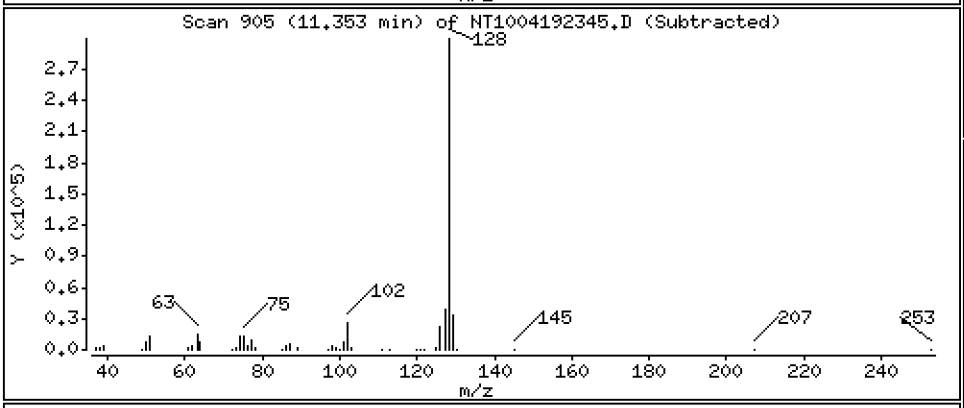
Column diameter: 0.25

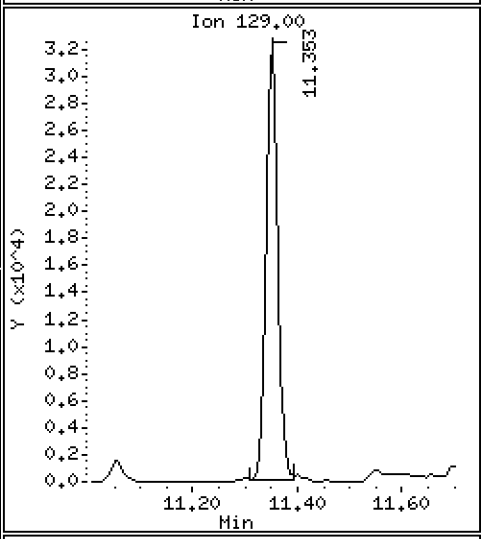
28 Naphthalene

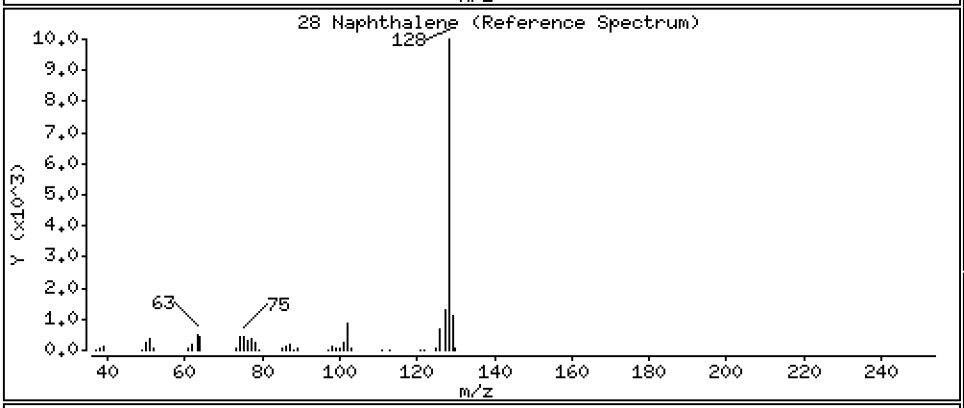
Concentration: 3.293 ug/mL

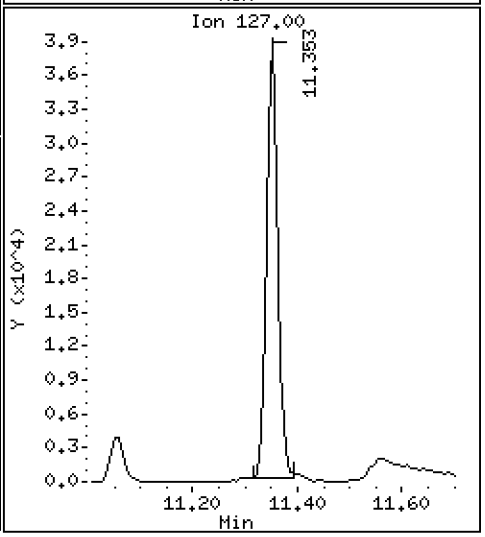


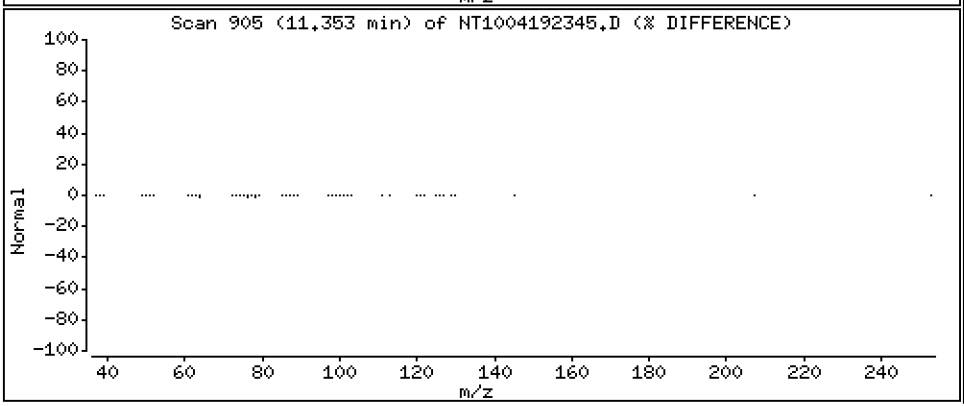












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

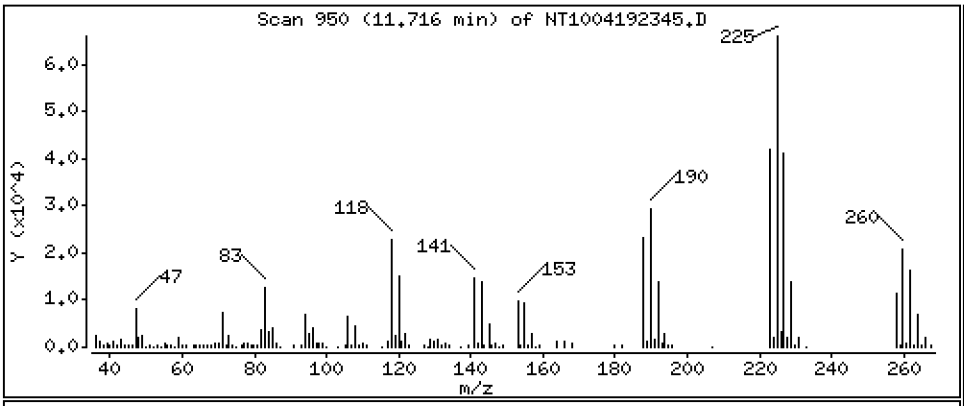
Operator: VTS

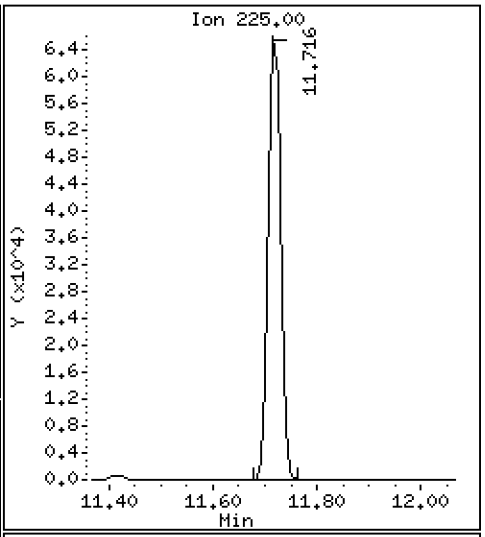
Column phase: ZB-5msi

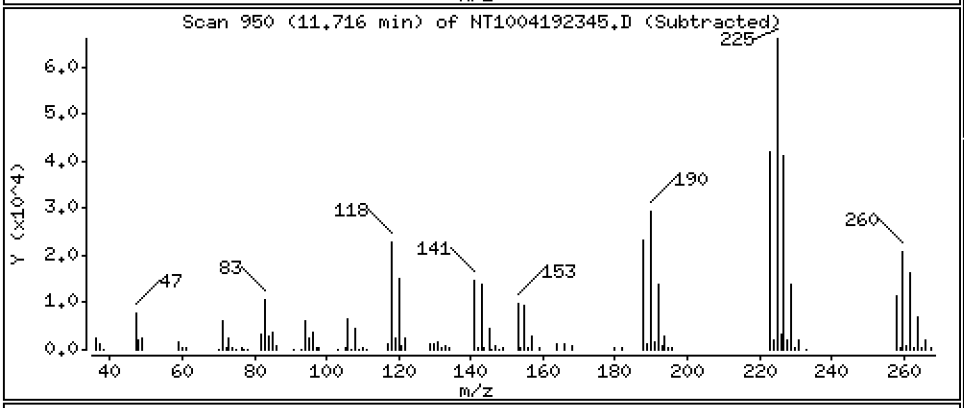
Column diameter: 0.25

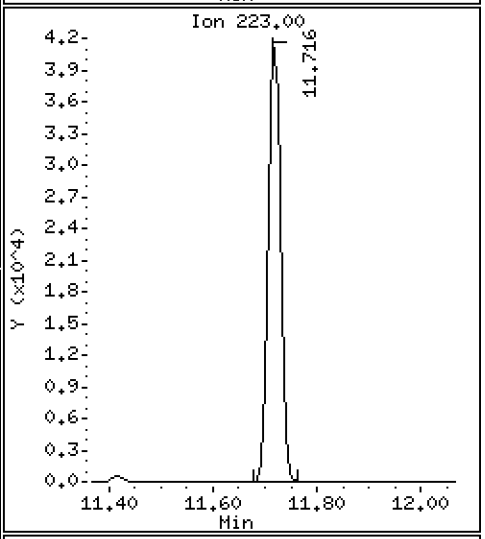
30 Hexachlorobutadiene

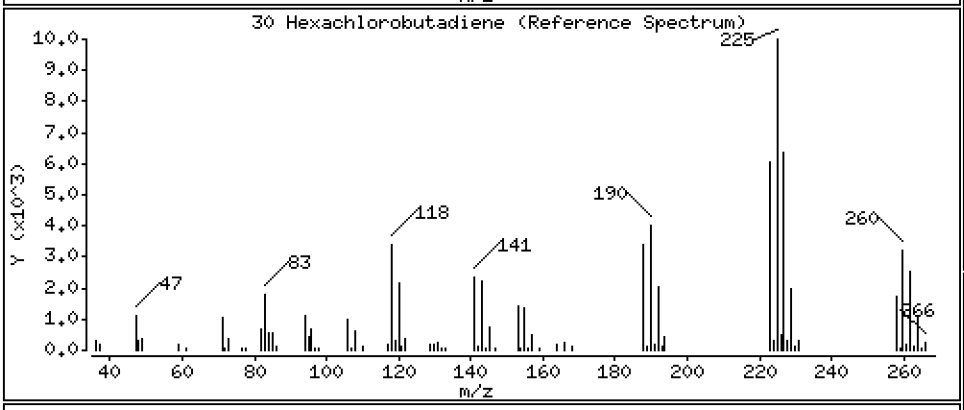
Concentration: 3.843 ug/mL

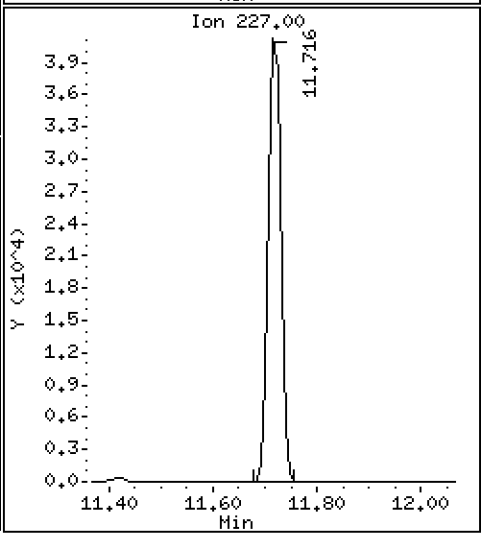


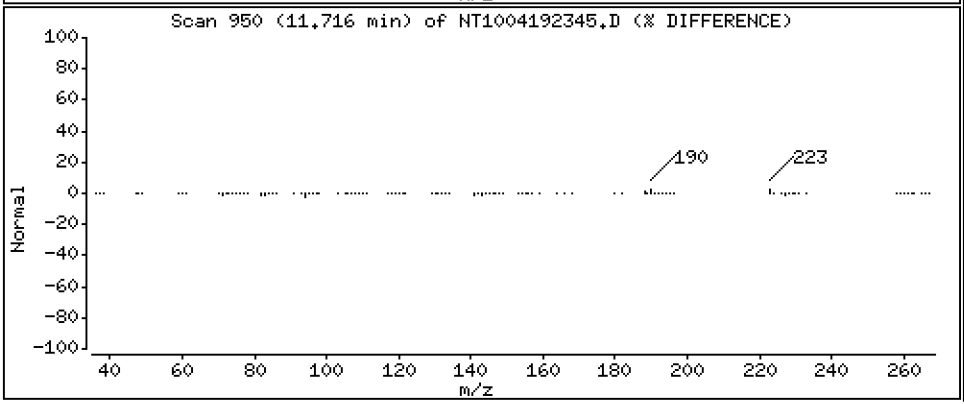












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

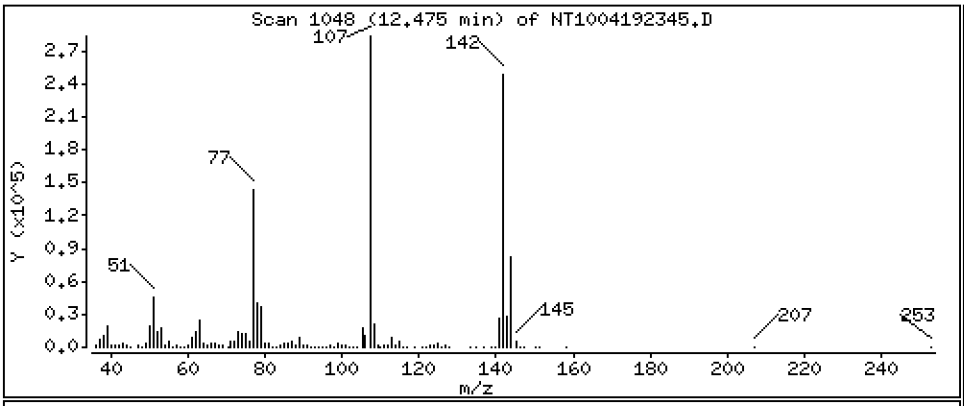
Operator: VTS

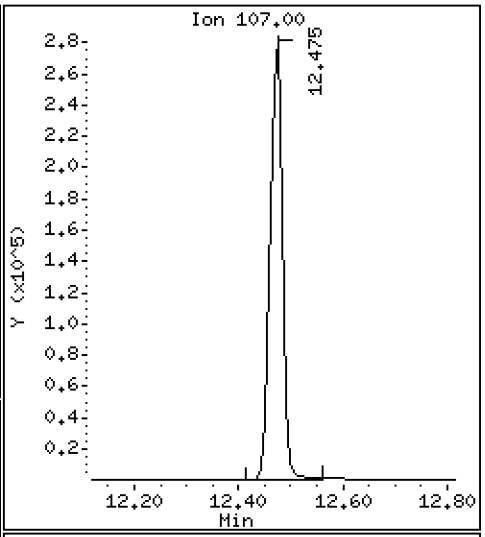
Column phase: ZB-5msi

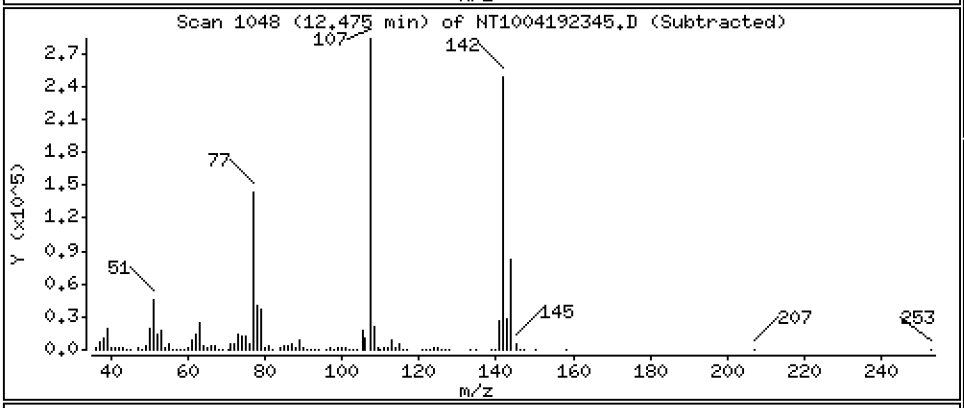
Column diameter: 0.25

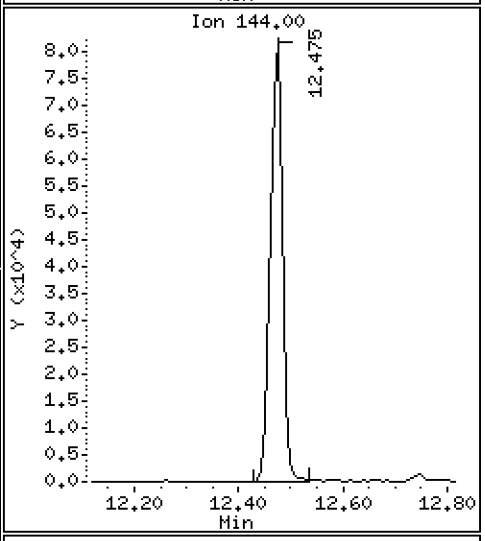
31 4-Chloro-3-methylphenol

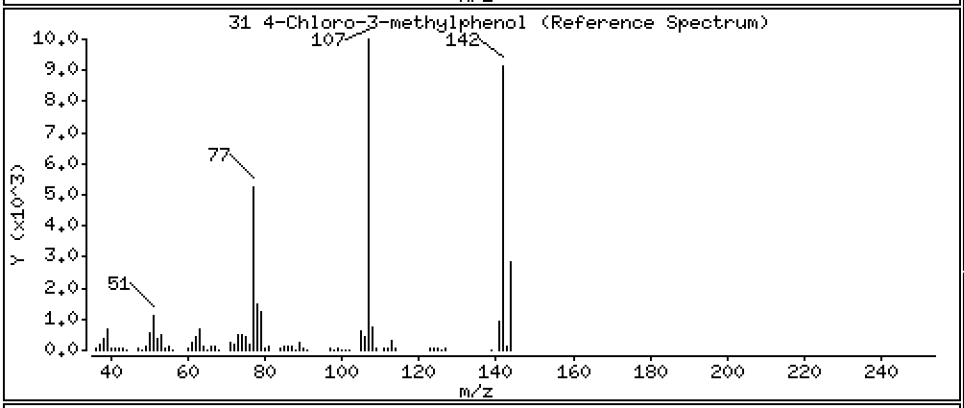
Concentration: 10.49 ug/mL

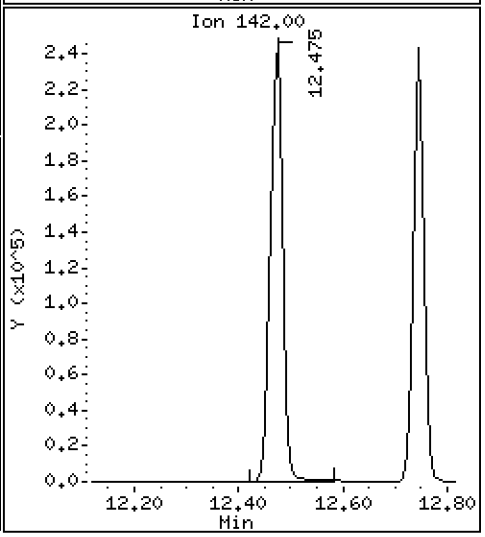


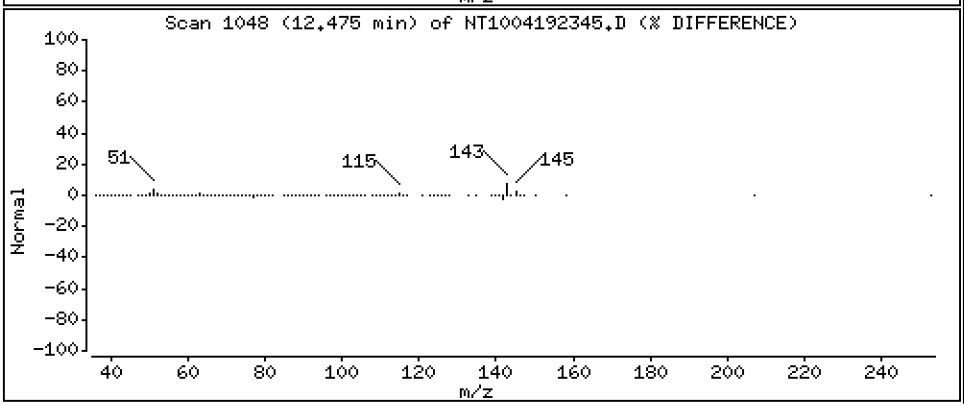












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

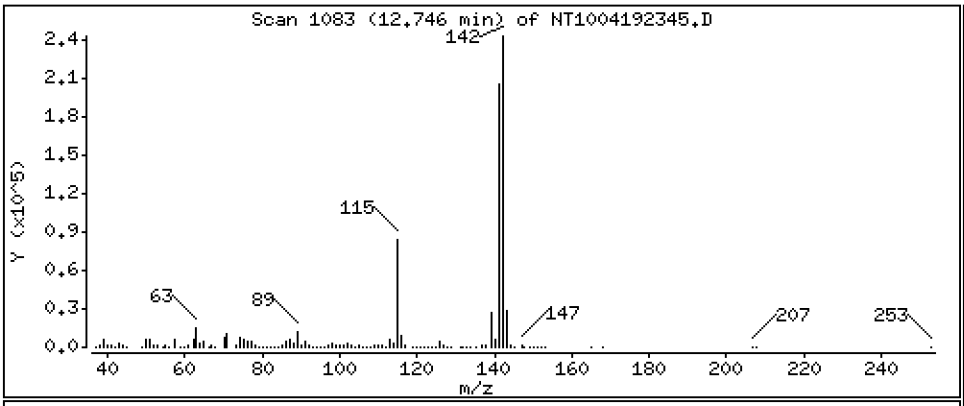
Operator: VTS

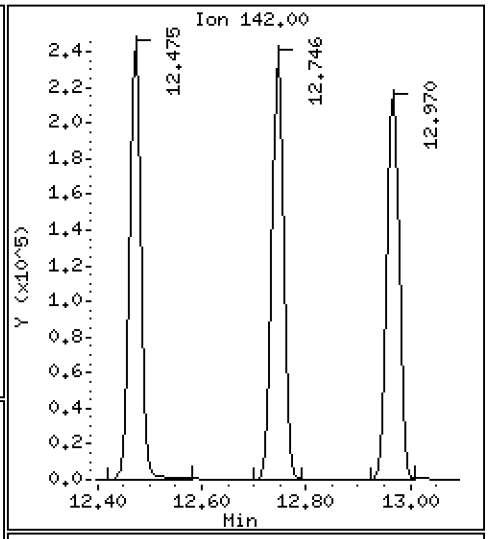
Column phase: ZB-5msi

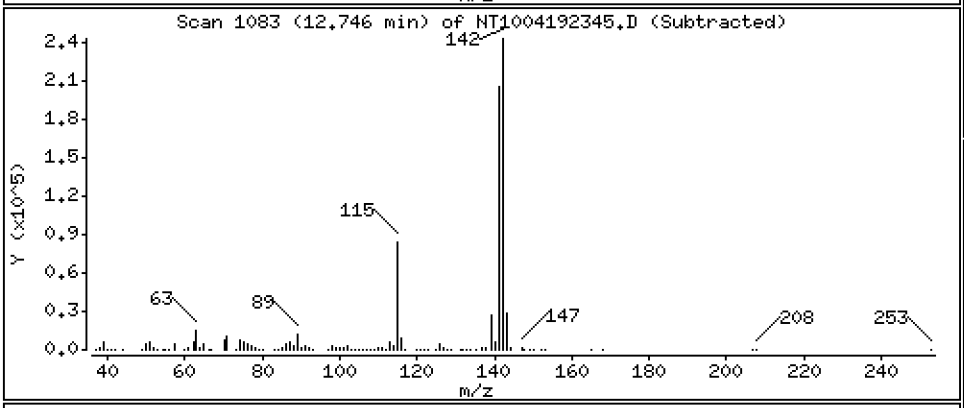
Column diameter: 0.25

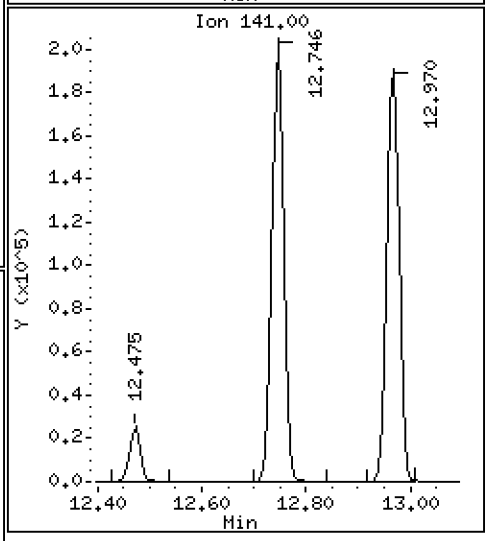
32 2-Methylnaphthalene

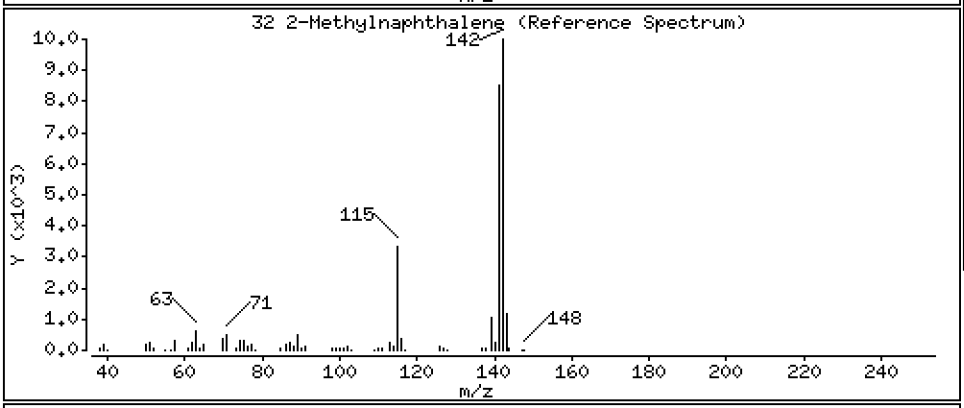
Concentration: 3.401 ug/mL

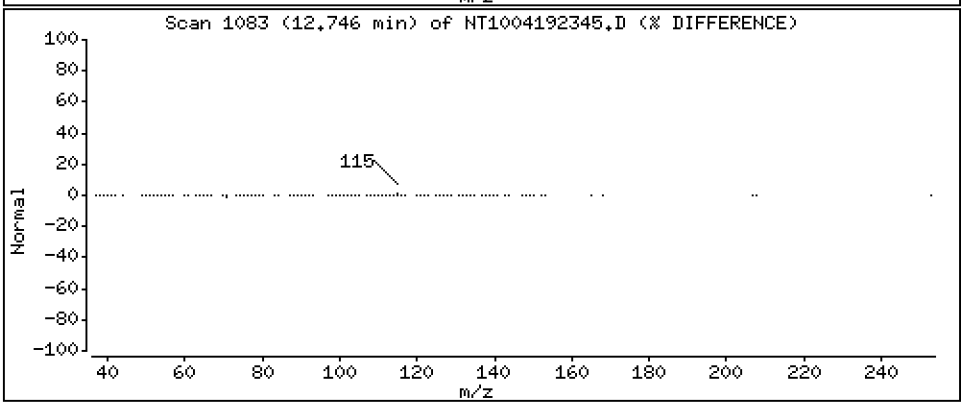












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

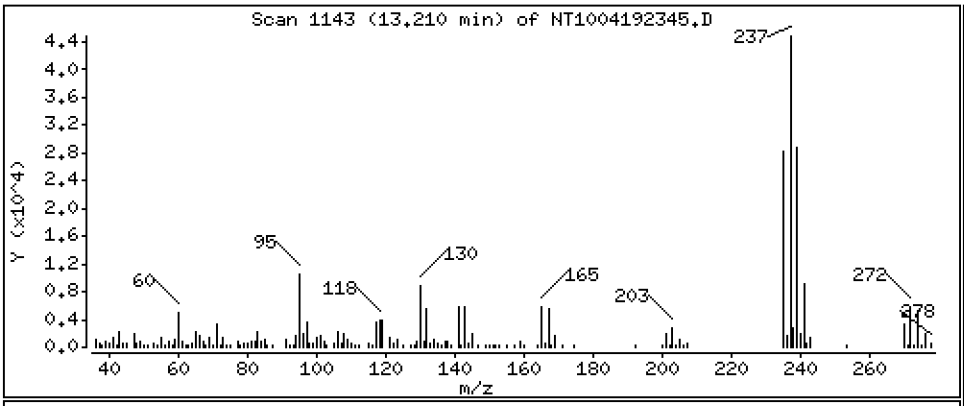
Operator: VTS

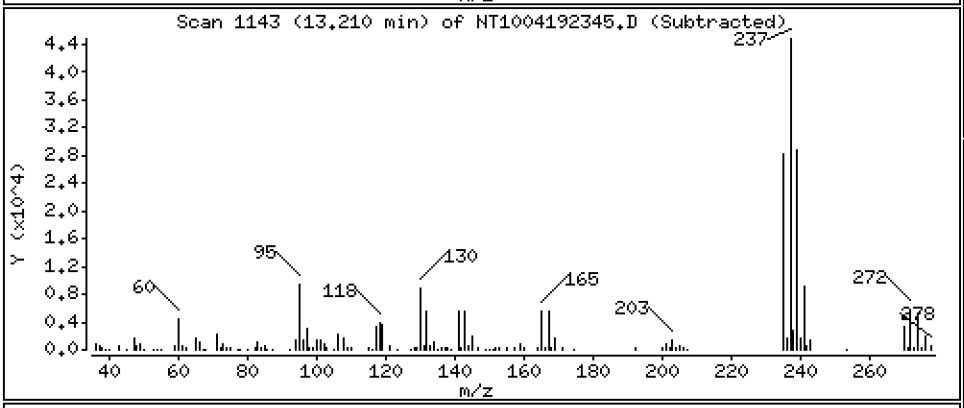
Column phase: ZB-5msi

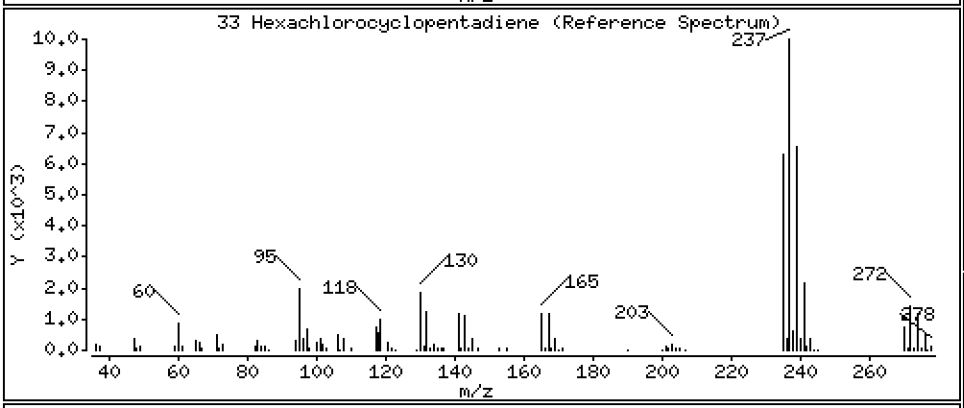
Column diameter: 0.25

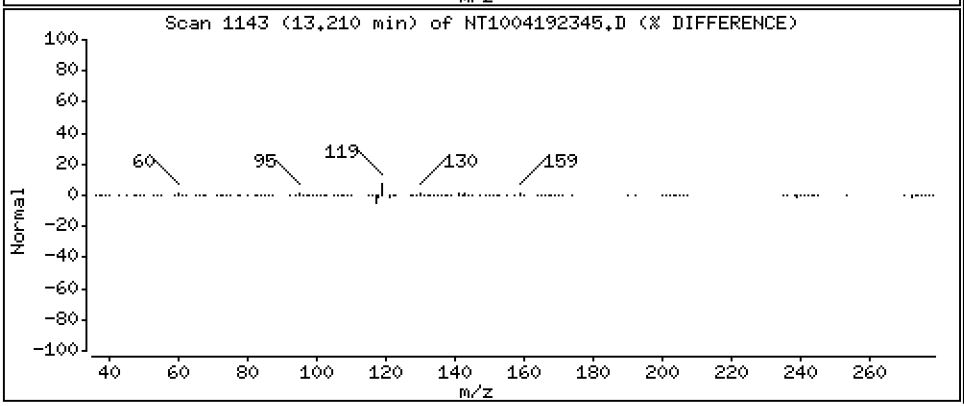
33 Hexachlorocyclopentadiene

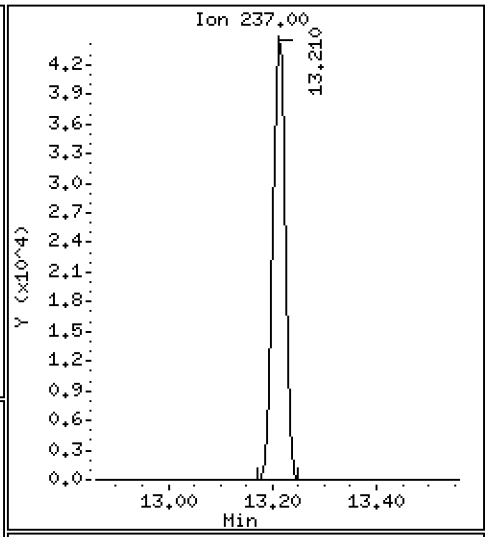
Concentration: 2.368 ug/mL

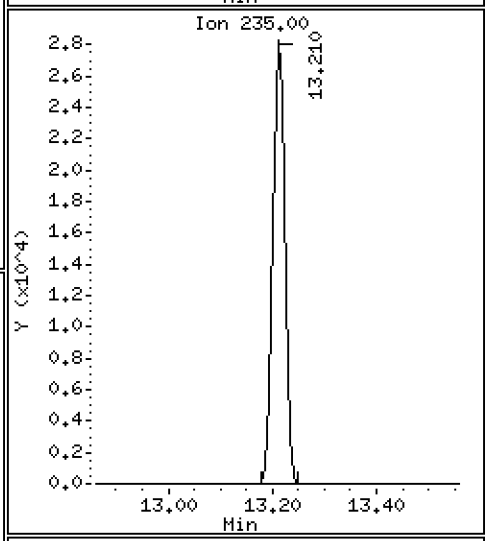


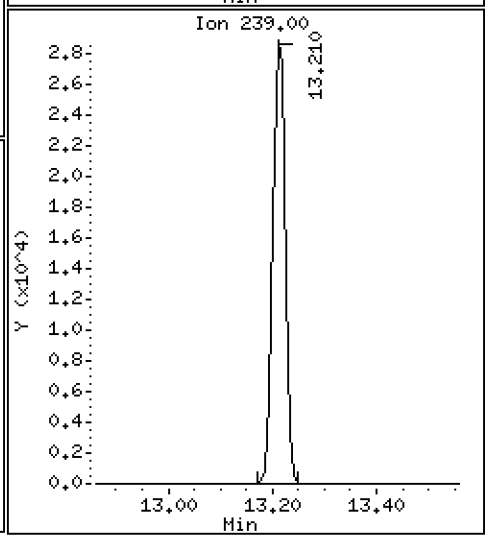












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

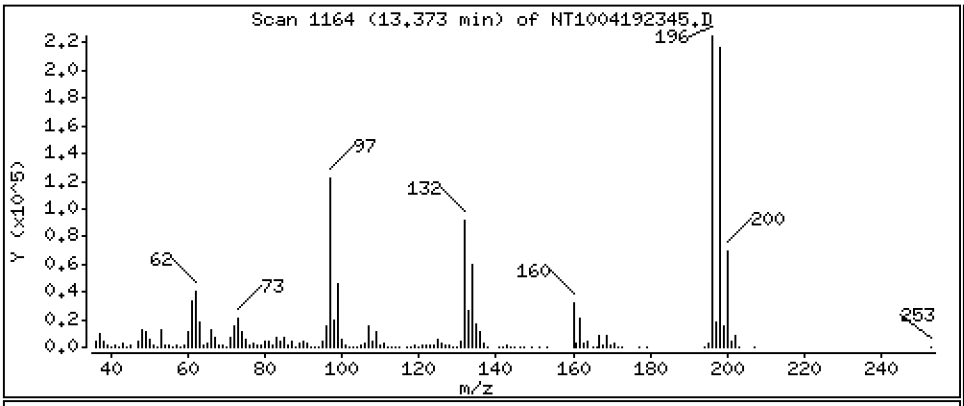
Operator: VTS

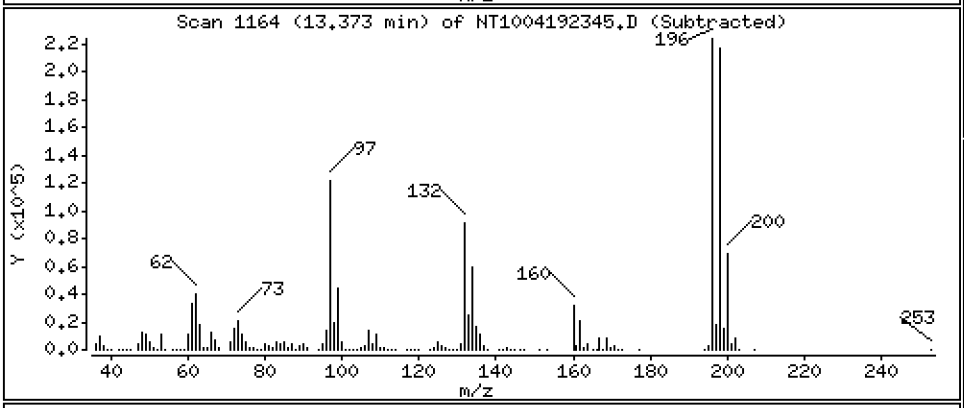
Column phase: ZB-5msi

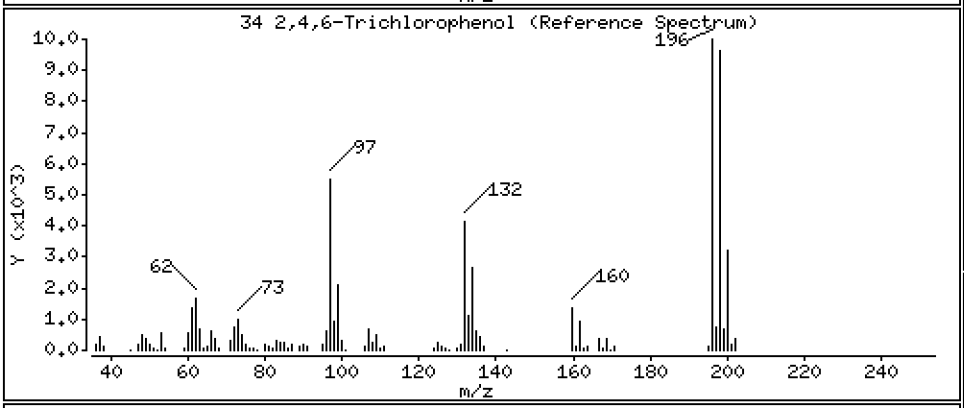
Column diameter: 0.25

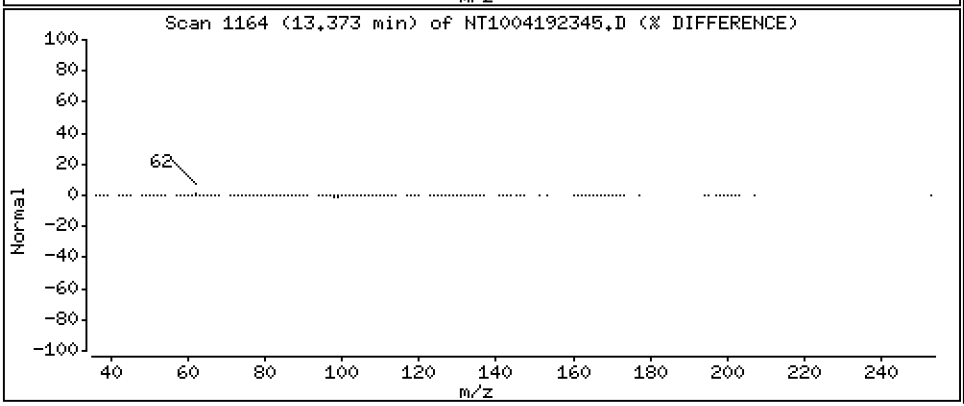
34 2,4,6-Trichlorophenol

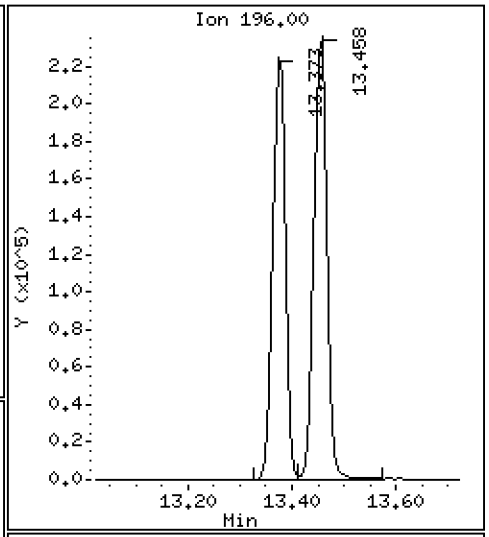
Concentration: 11.41 ug/mL

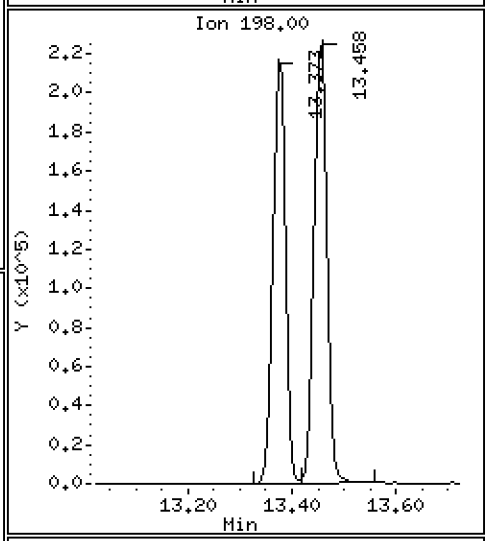


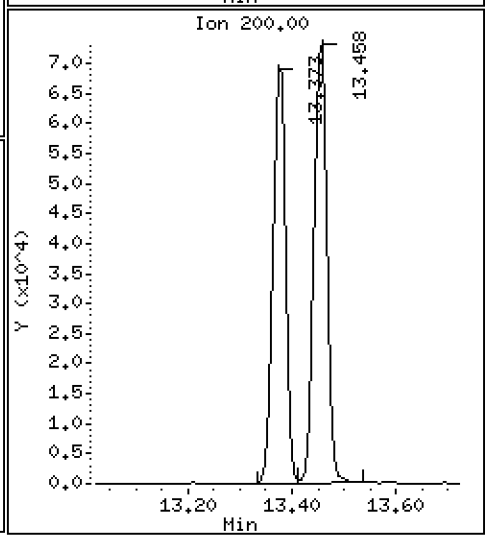












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

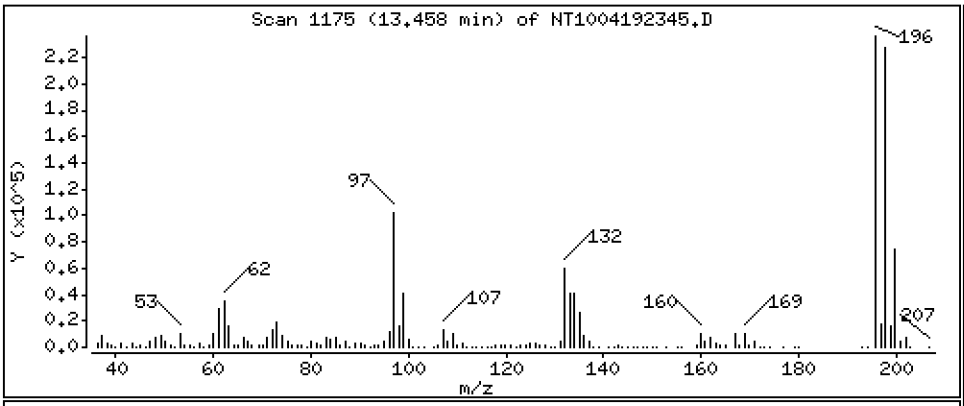
Operator: VTS

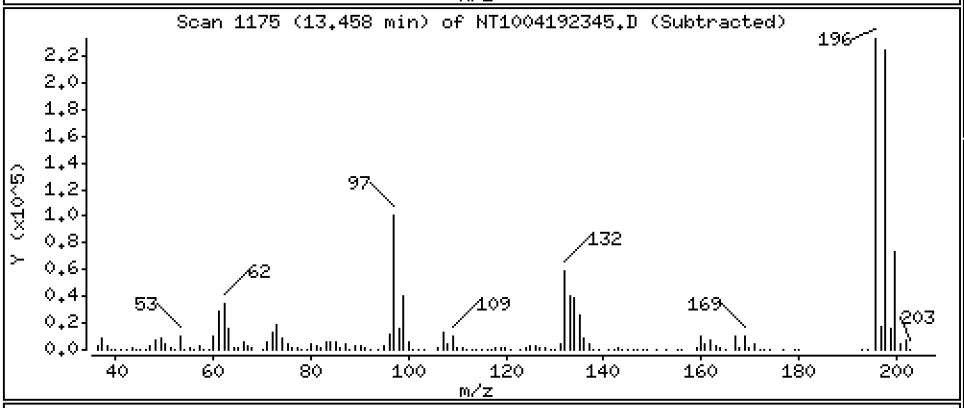
Column phase: ZB-5msi

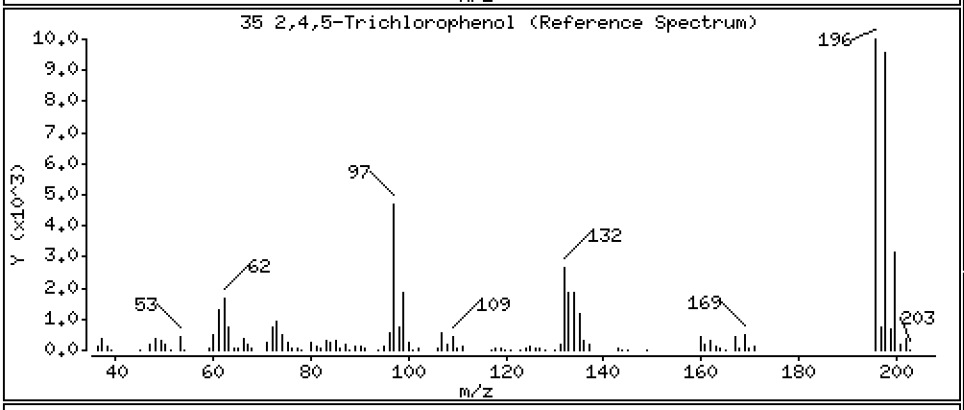
Column diameter: 0.25

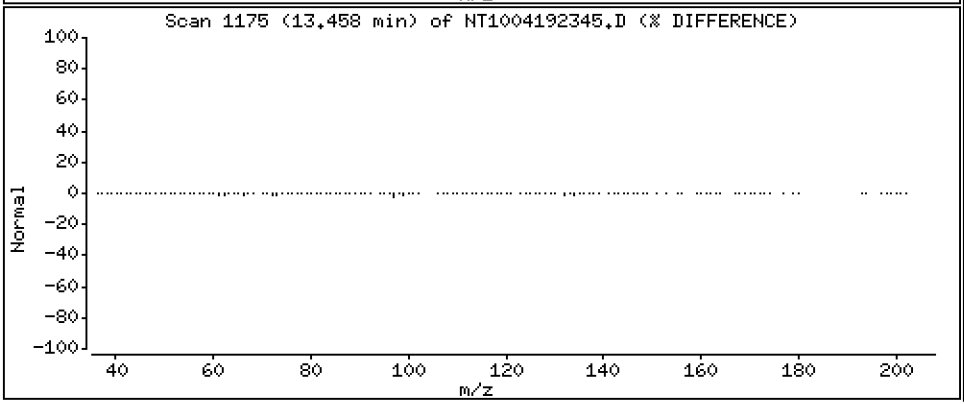
35 2,4,5-Trichlorophenol

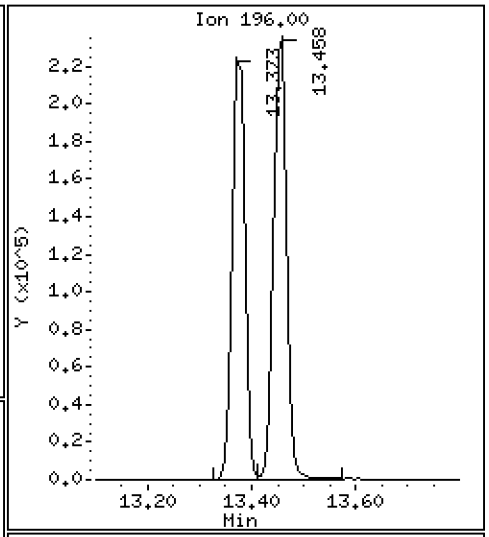
Concentration: 11.21 ug/mL

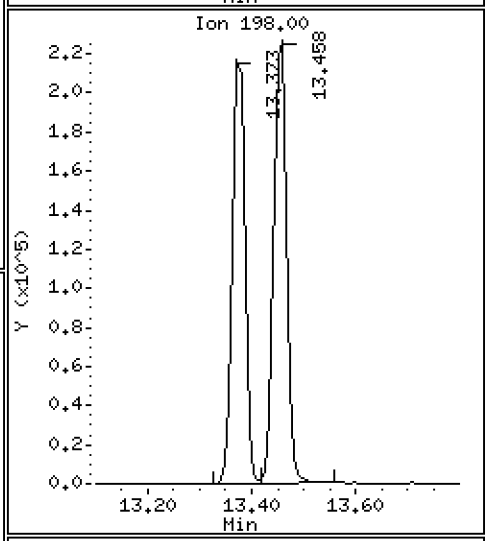


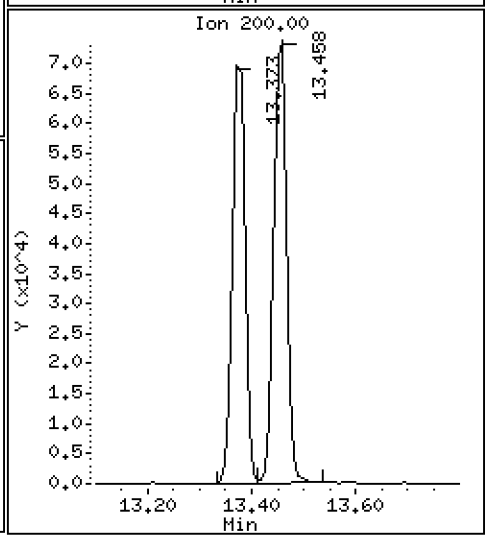












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192345.D

Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

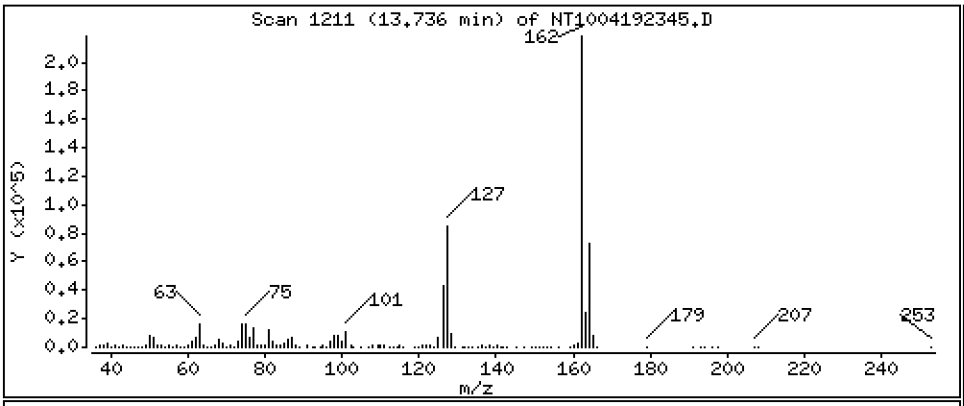
Operator: VTS

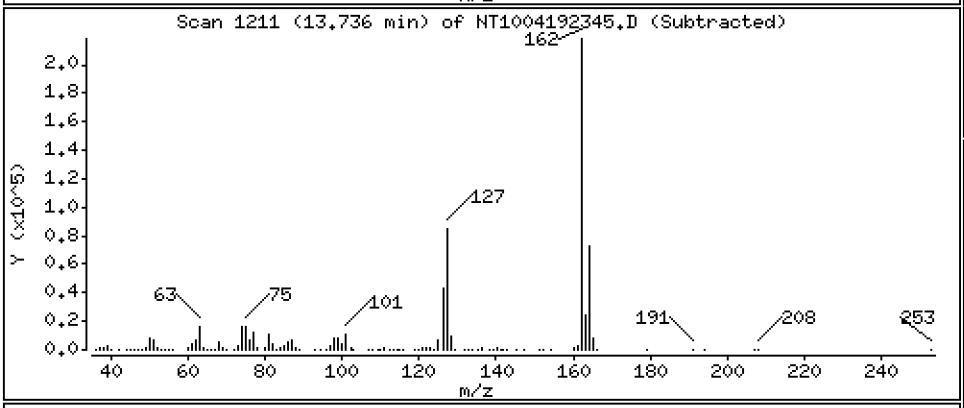
Column phase: ZB-5msi

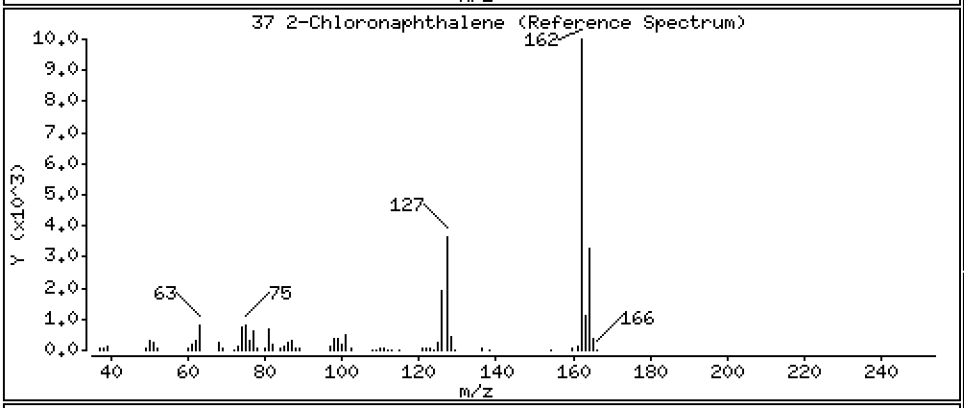
Column diameter: 0.25

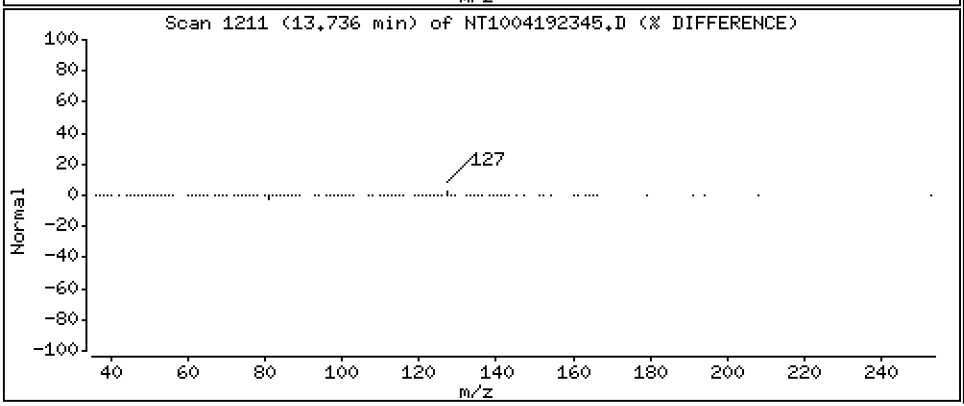
37 2-Chloronaphthalene

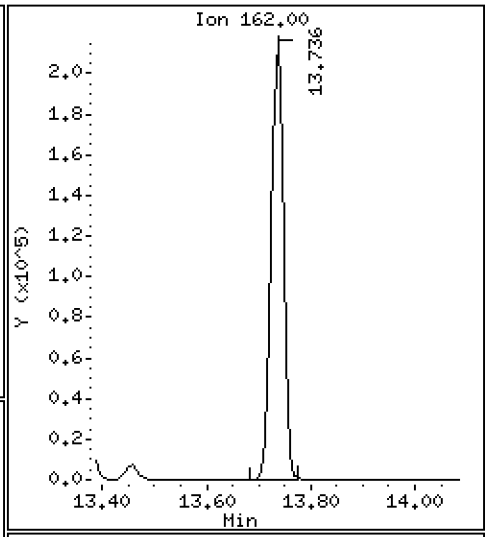
Concentration: 3.278 ug/mL

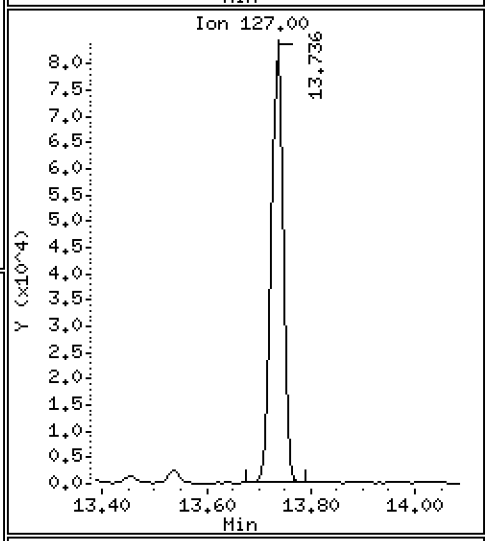


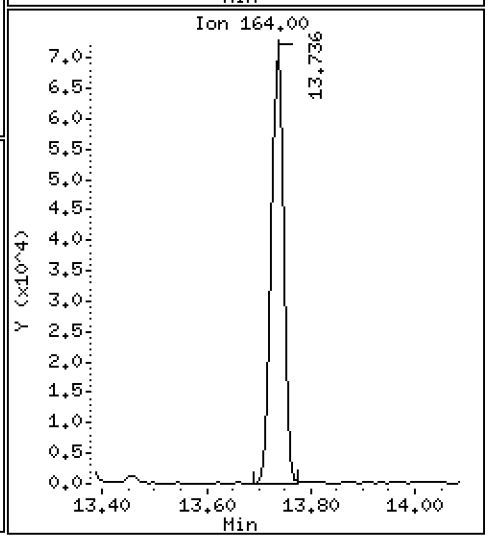












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

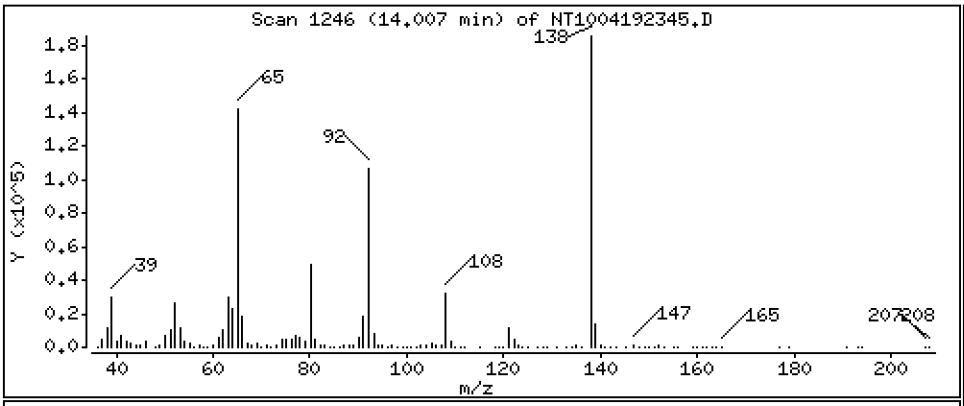
Operator: VTS

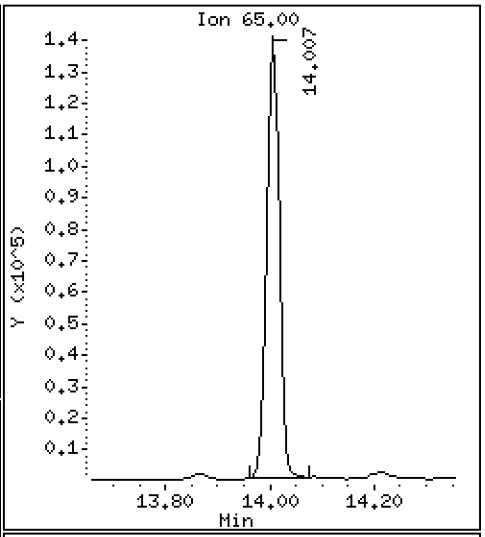
Column phase: ZB-5msi

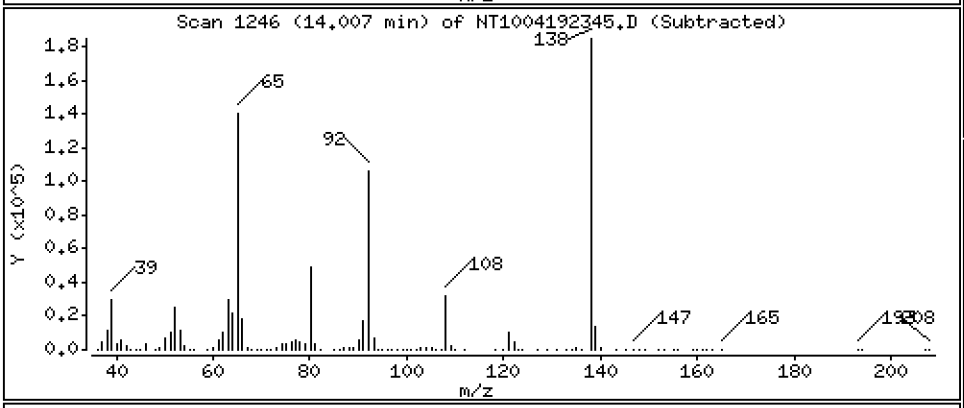
Column diameter: 0.25

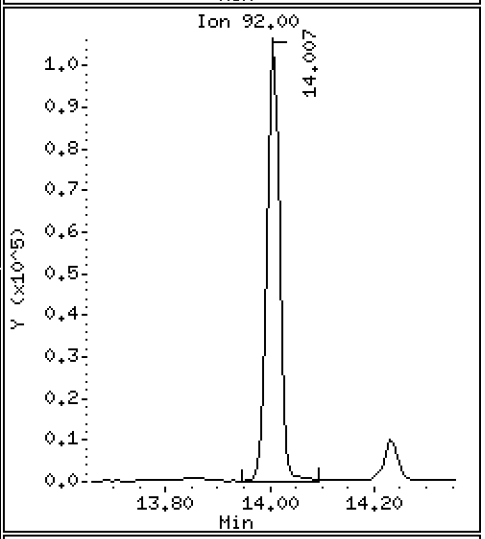
38 2-Nitroaniline

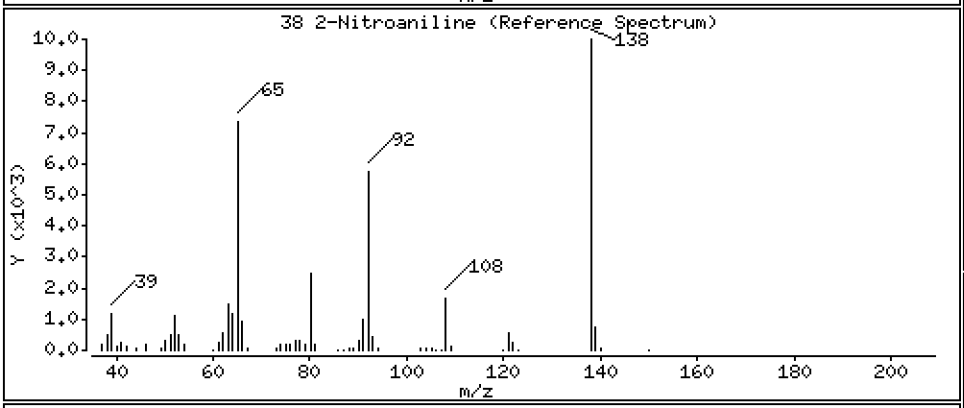
Concentration: 7.751 ug/mL

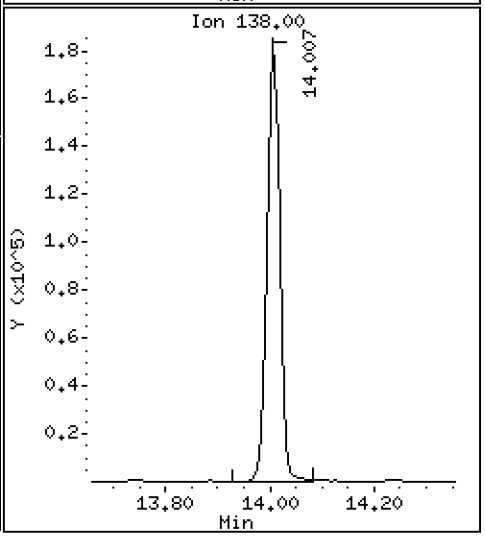


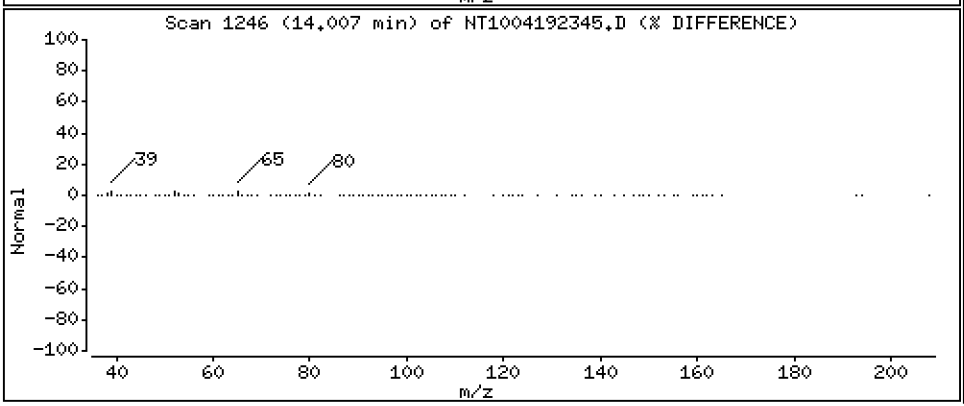












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

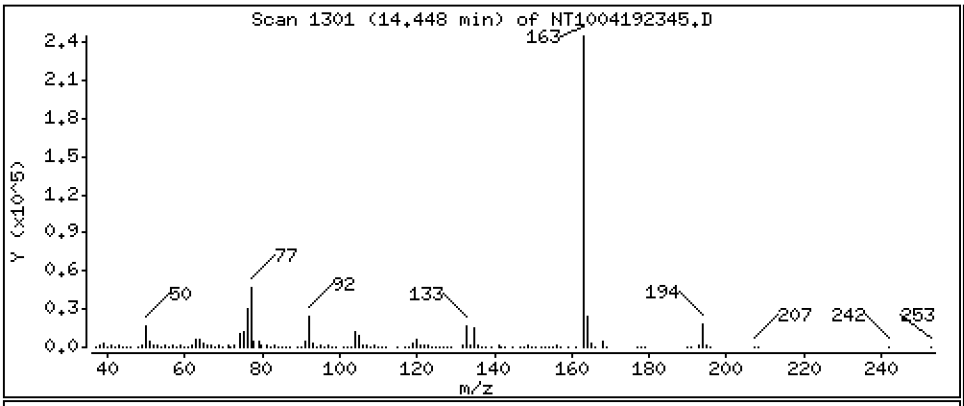
Operator: VTS

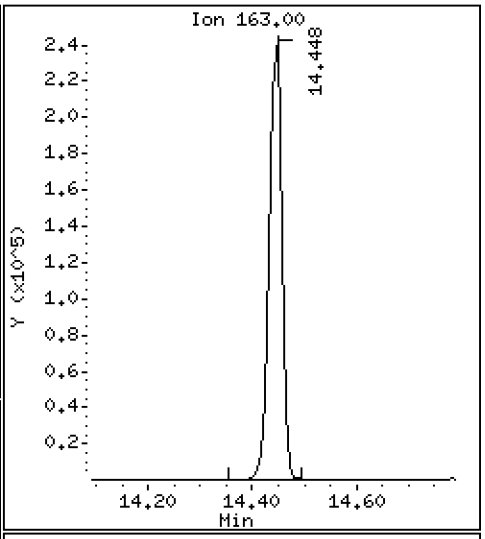
Column phase: ZB-5msi

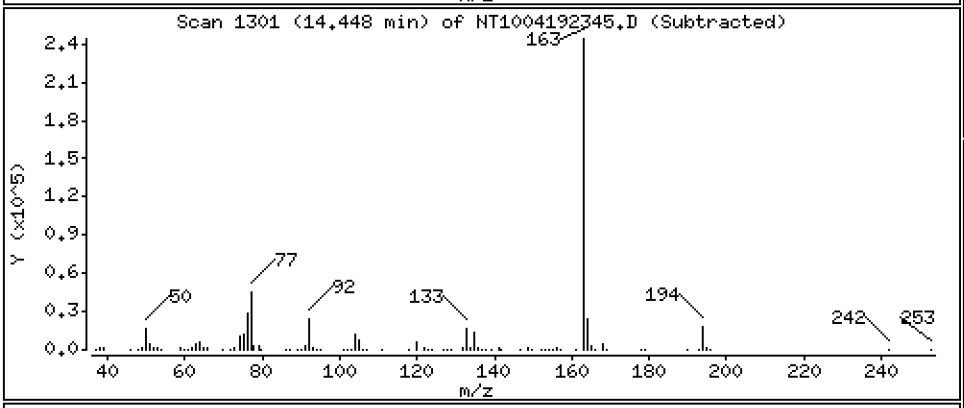
Column diameter: 0.25

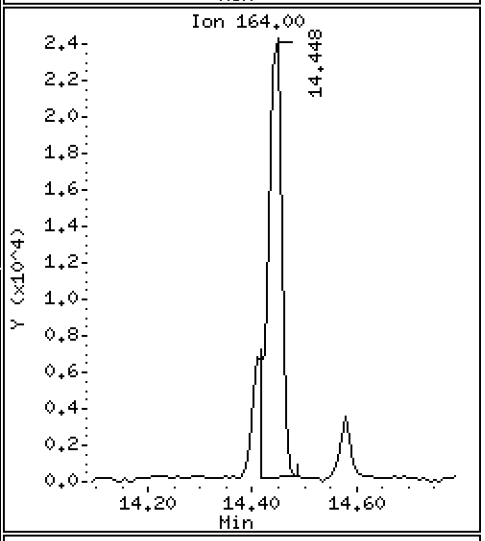
39 Dimethylphthalate

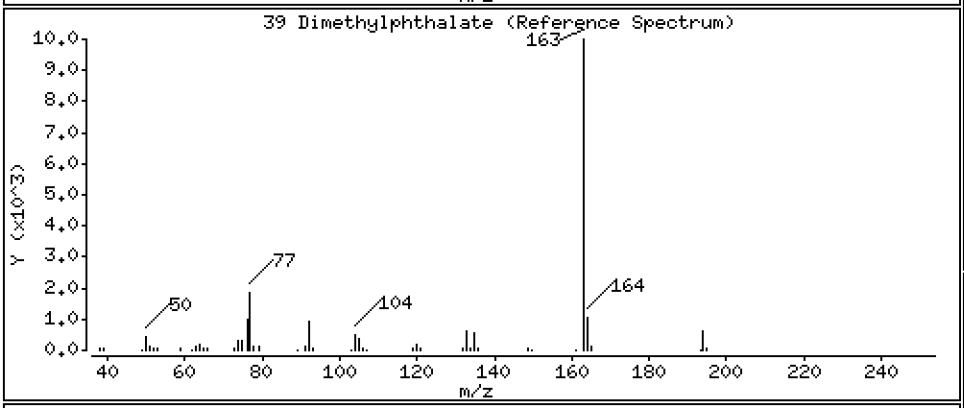
Concentration: 3.697 ug/mL

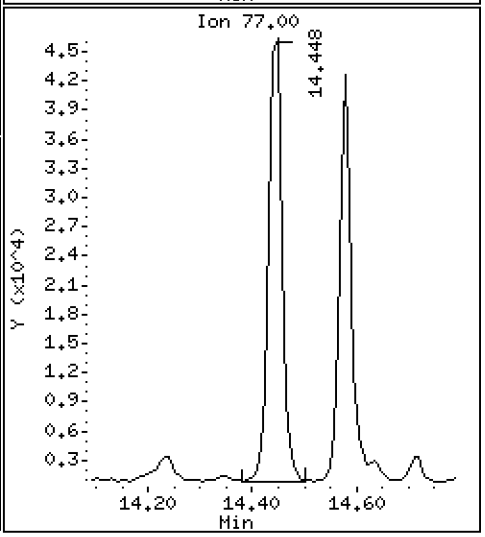


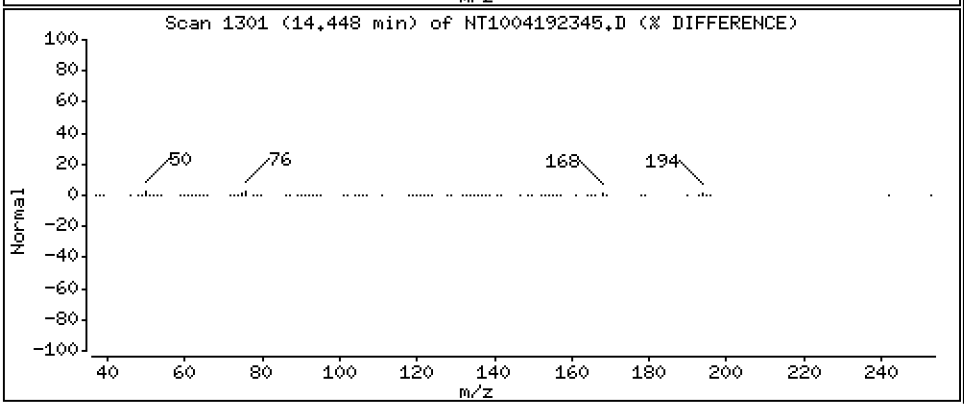












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

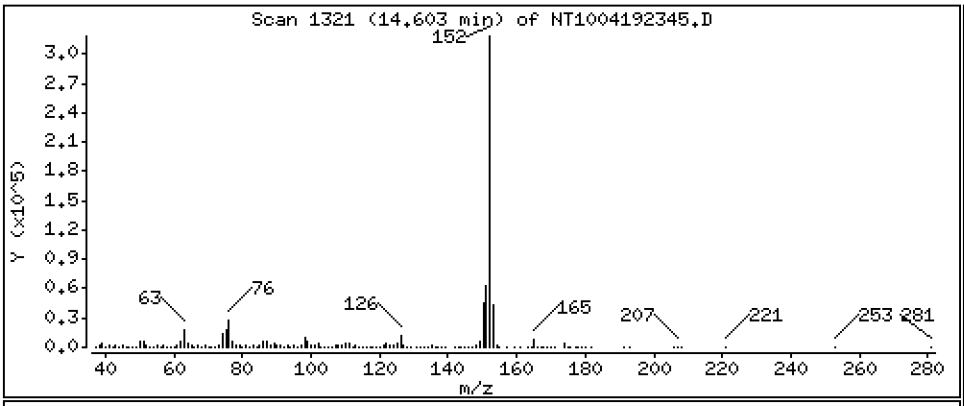
Operator: VTS

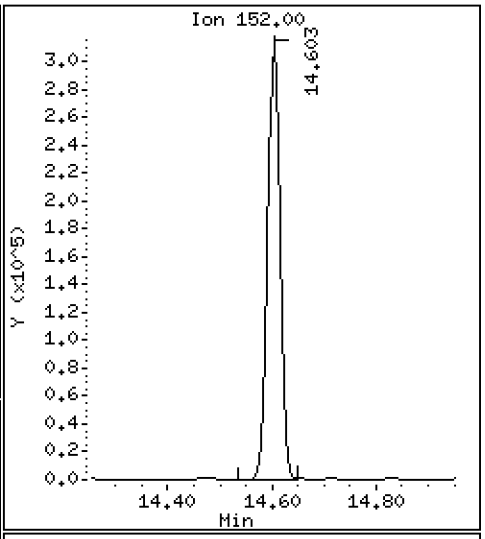
Column phase: ZB-5msi

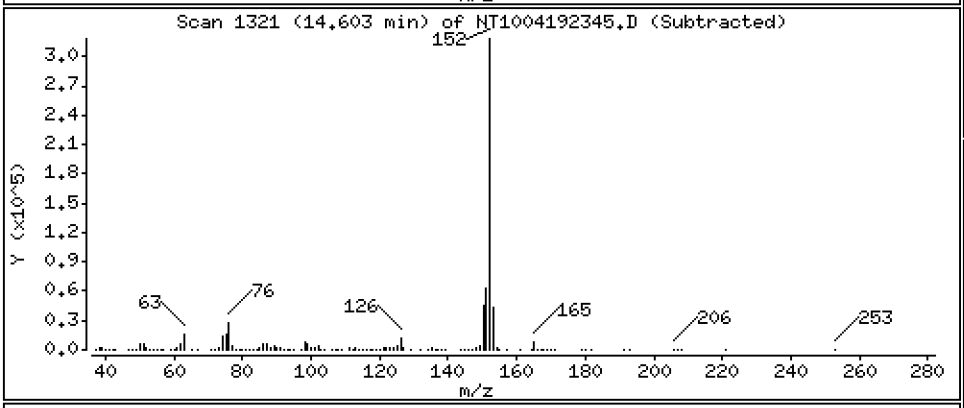
Column diameter: 0.25

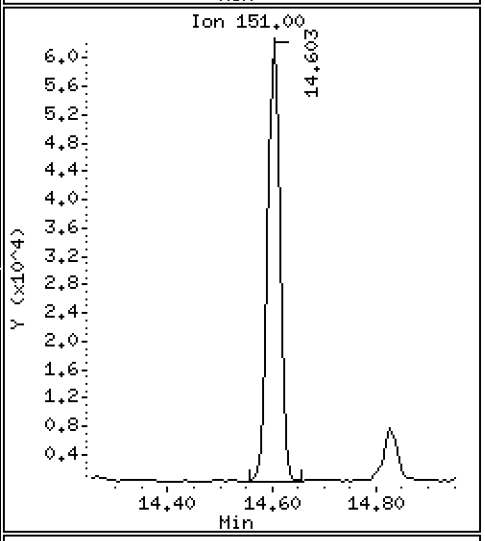
40 Acenaphthylene

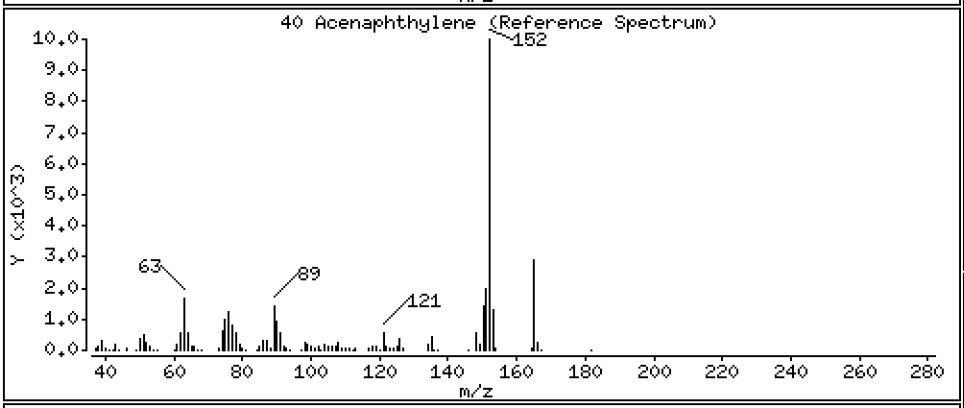
Concentration: 3.097 ug/mL

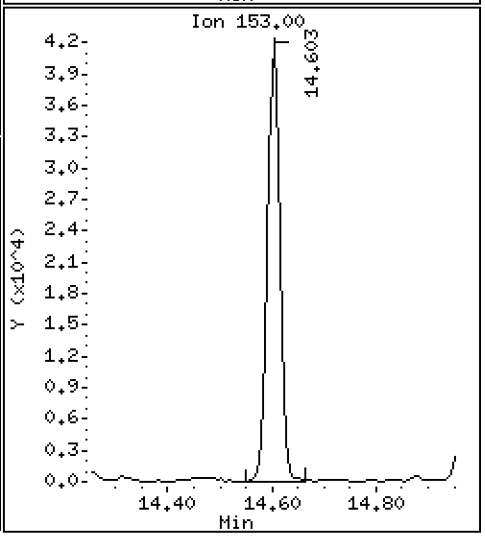


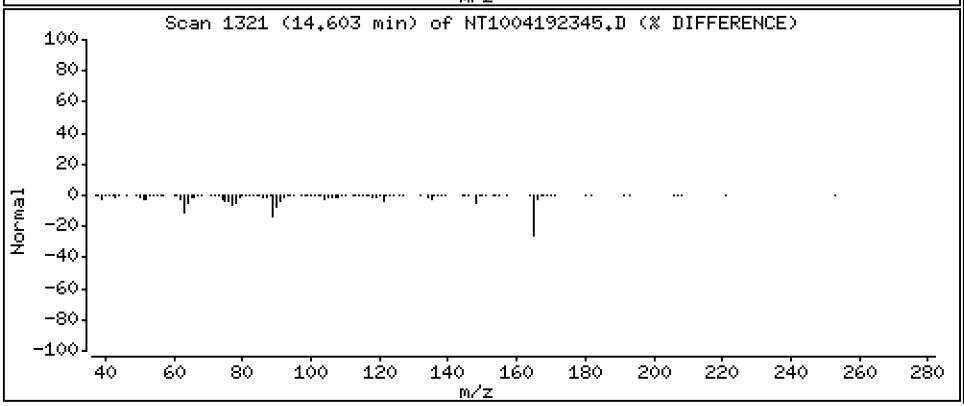












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

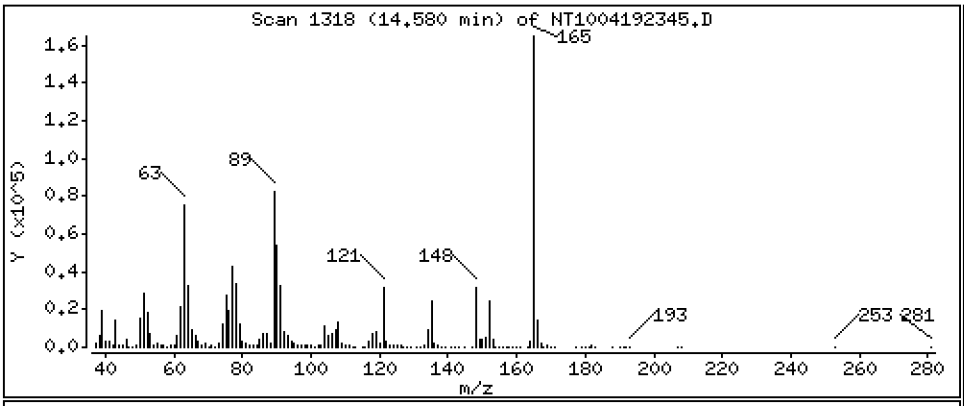
Operator: VTS

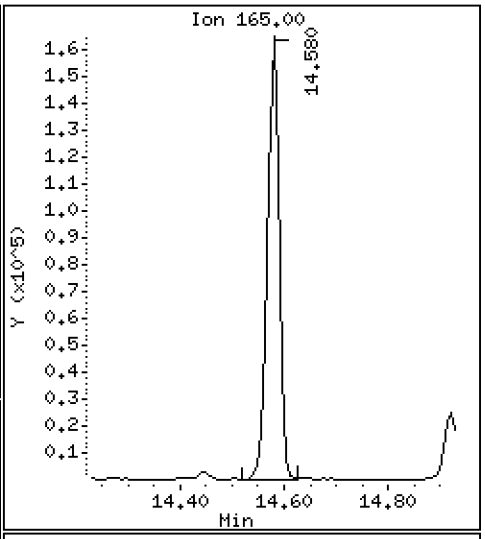
Column phase: ZB-5msi

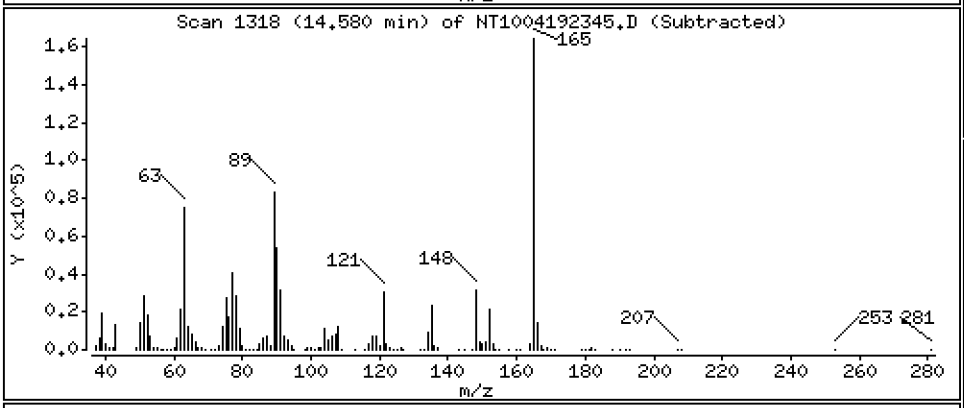
Column diameter: 0.25

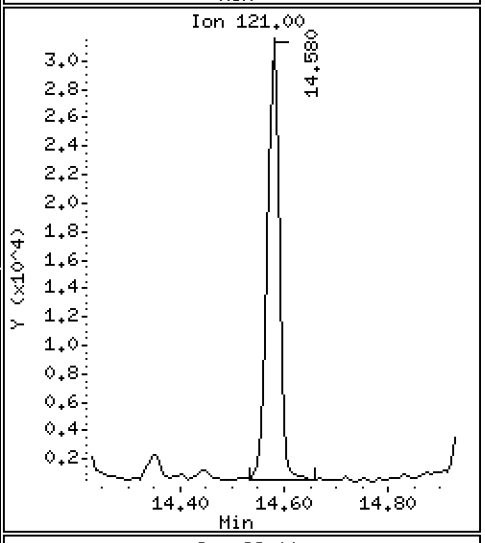
41 2,6-Dinitrotoluene

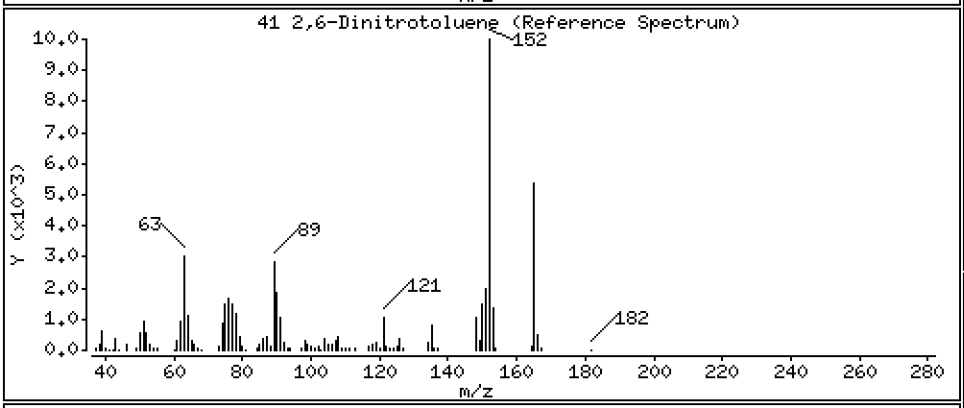
Concentration: 10.70 ug/mL

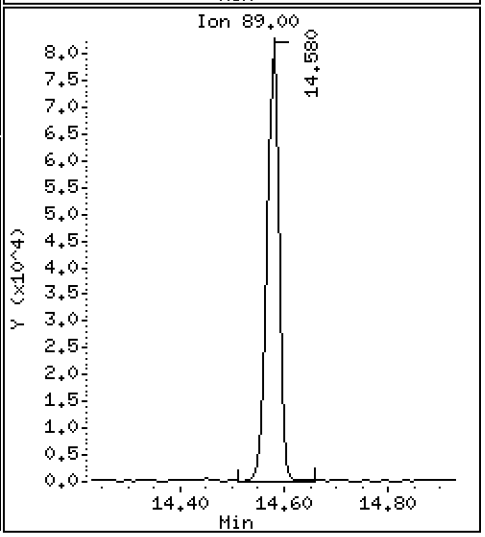


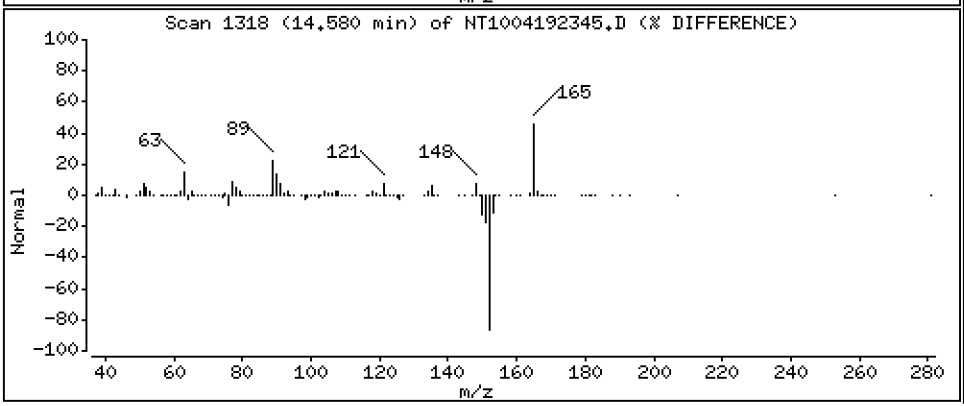












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

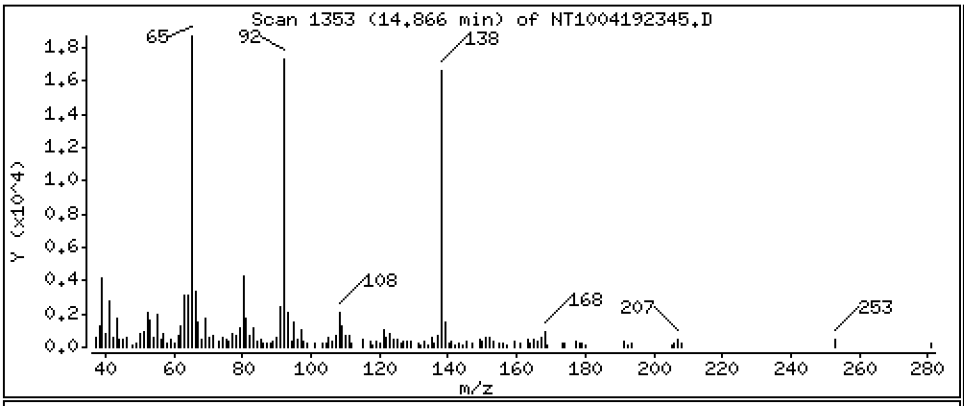
Operator: VTS

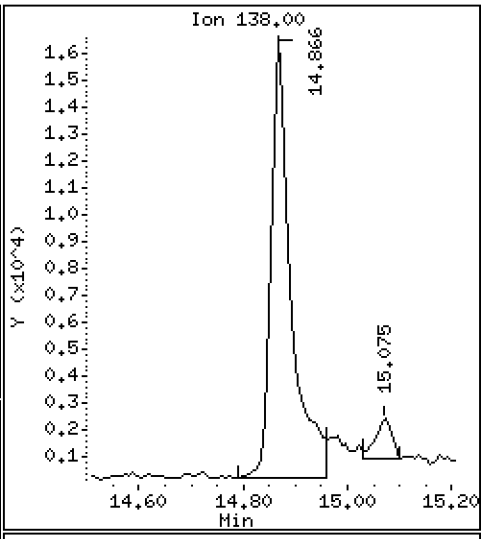
Column phase: ZB-5msi

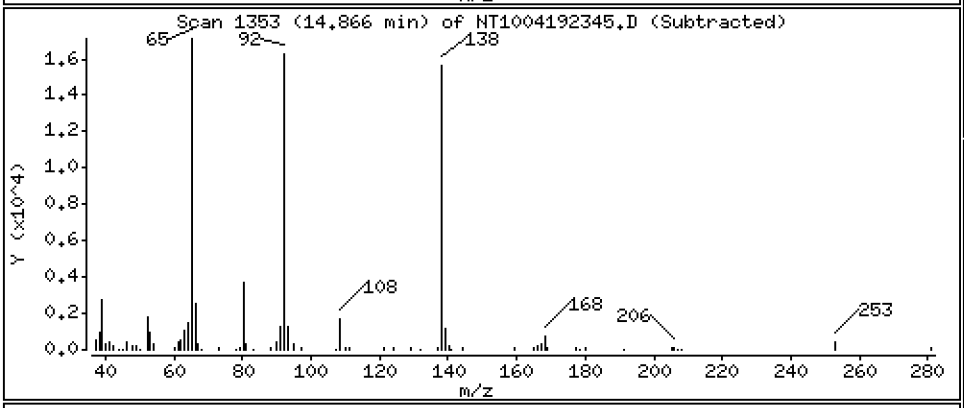
Column diameter: 0.25

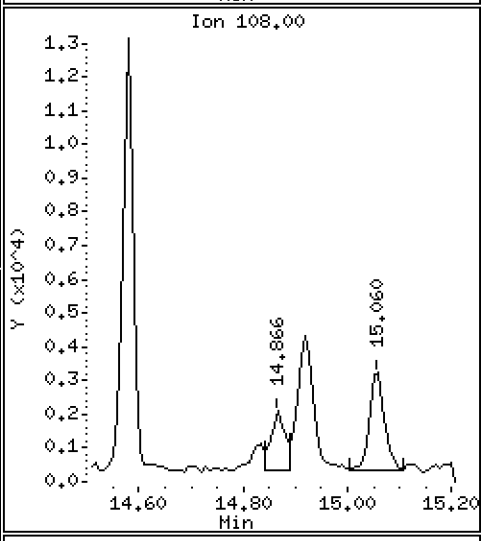
43 3-Nitroaniline

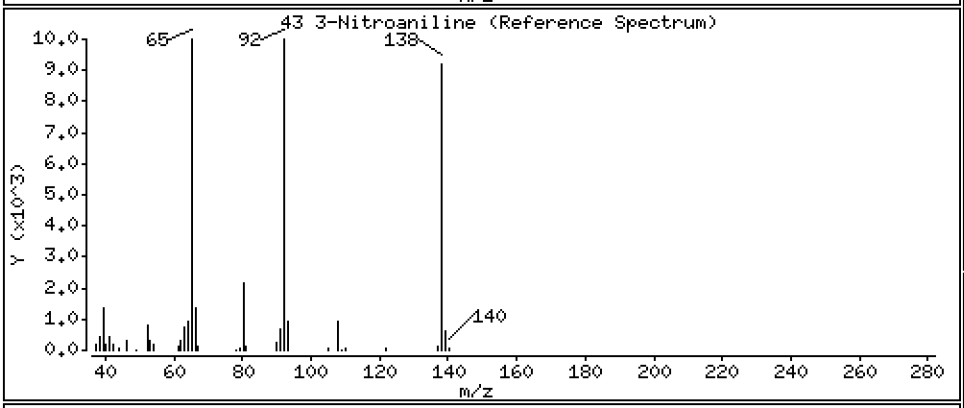
Concentration: 1.880 ug/mL

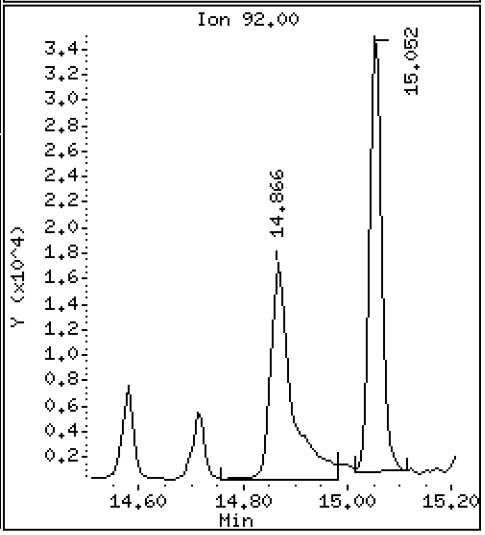


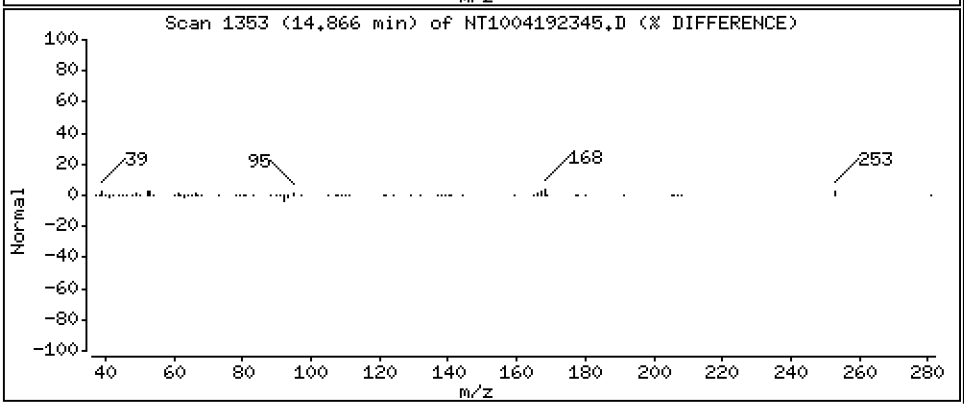












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

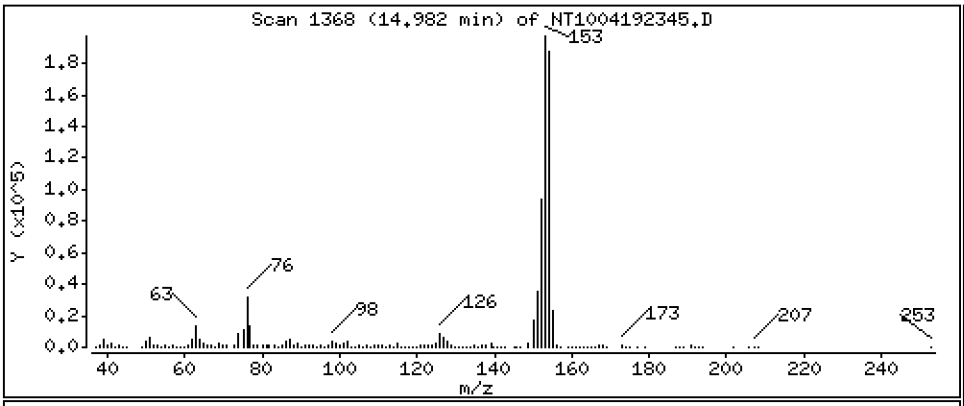
Operator: VTS

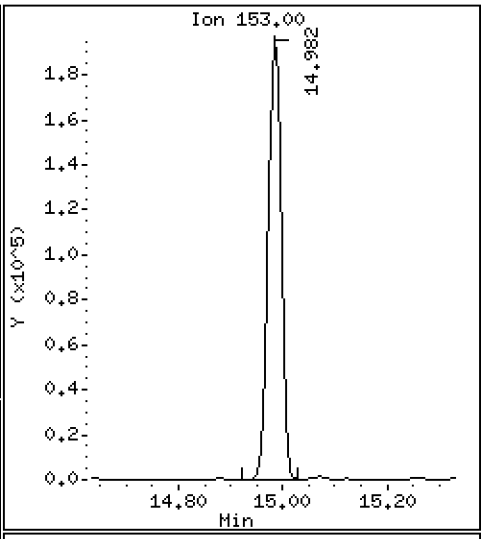
Column phase: ZB-5msi

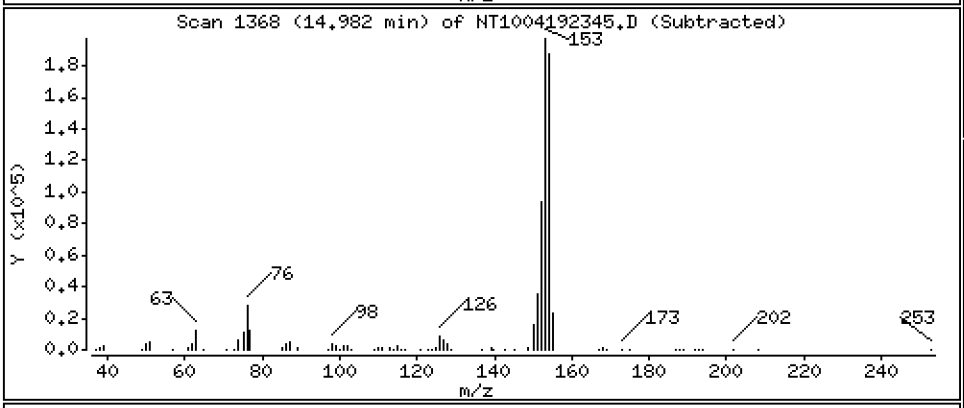
Column diameter: 0.25

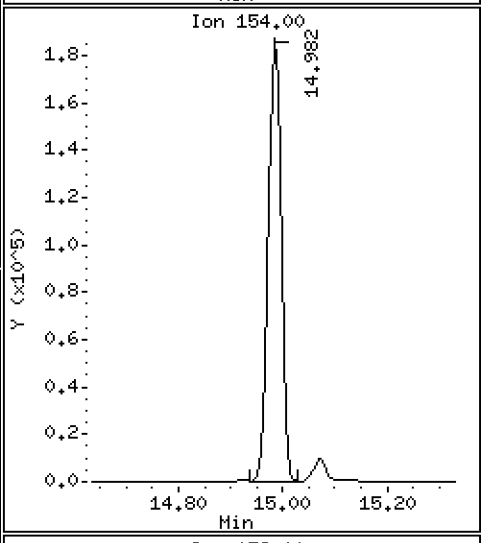
44 Acenaphthene

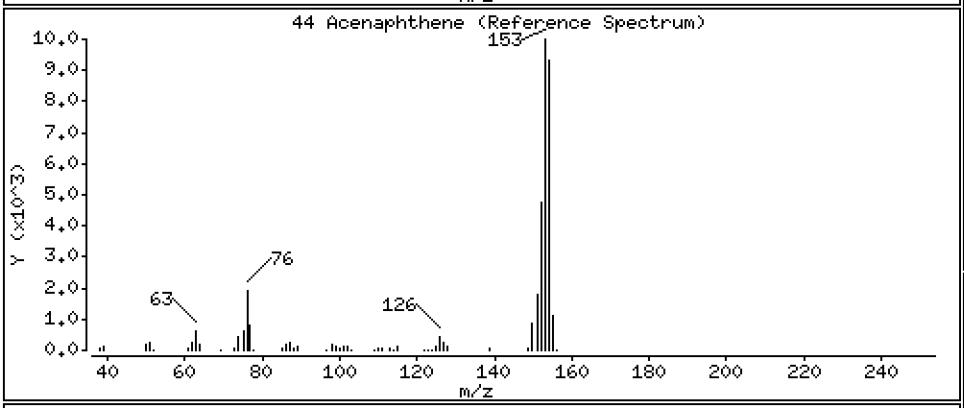
Concentration: 3.301 ug/mL

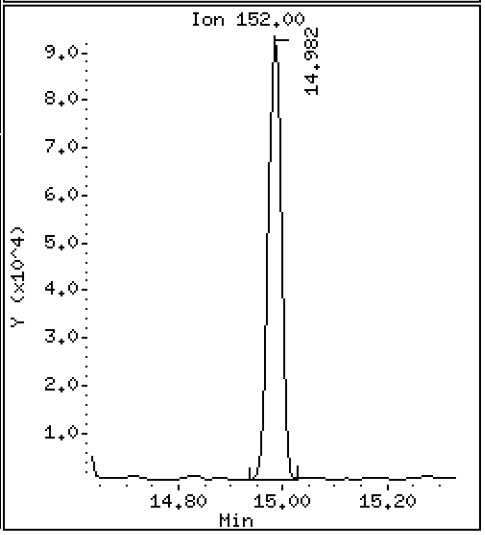


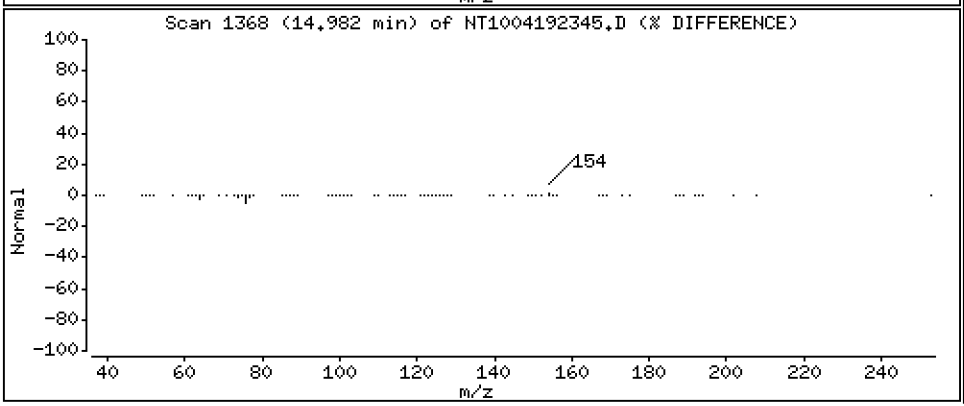












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

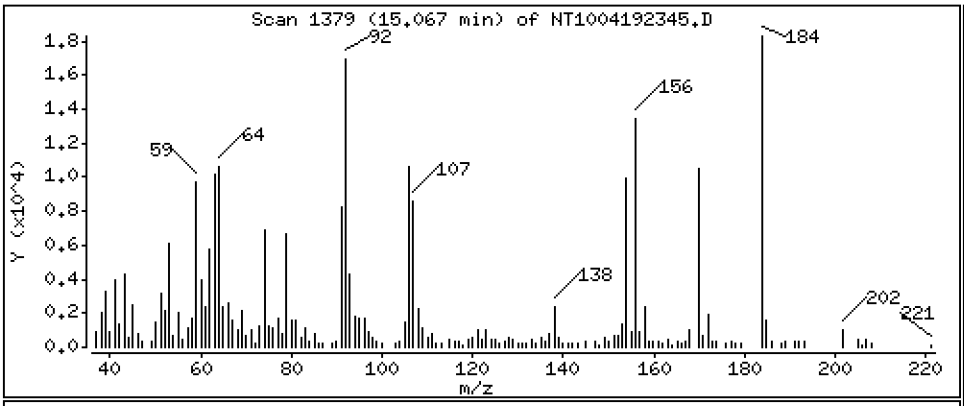
Operator: VTS

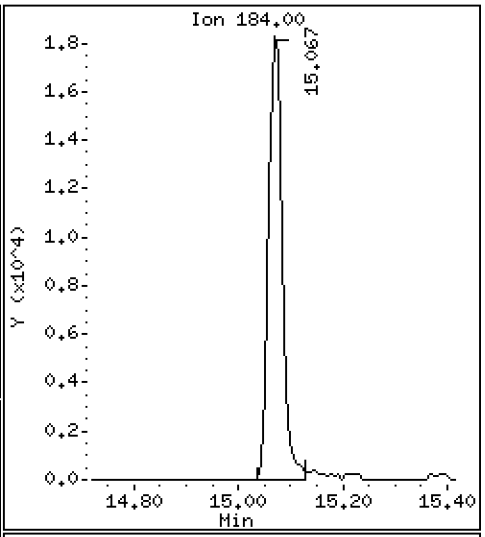
Column phase: ZB-5msi

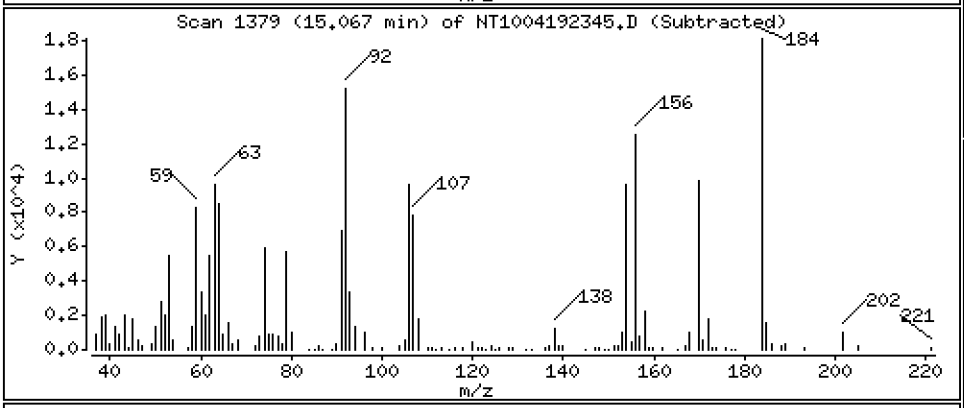
Column diameter: 0.25

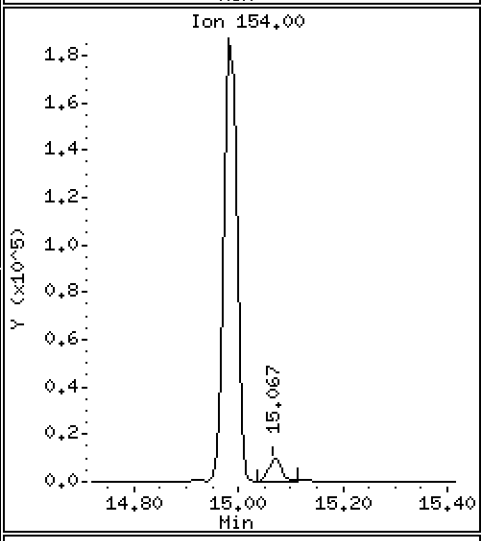
45 2,4-Dinitrophenol

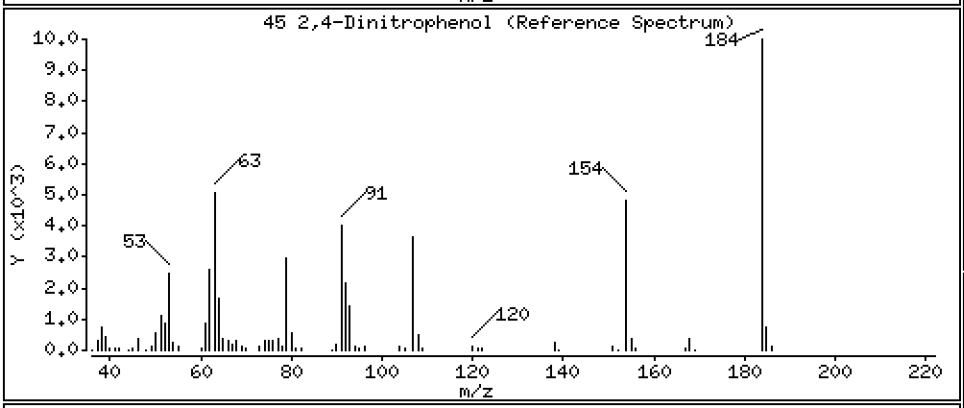
Concentration: 2.361 ug/mL

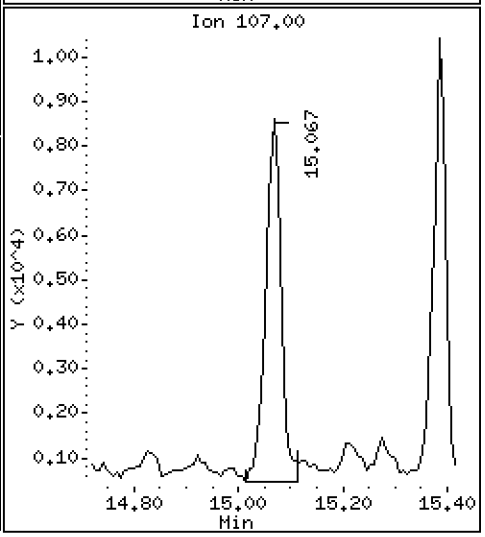


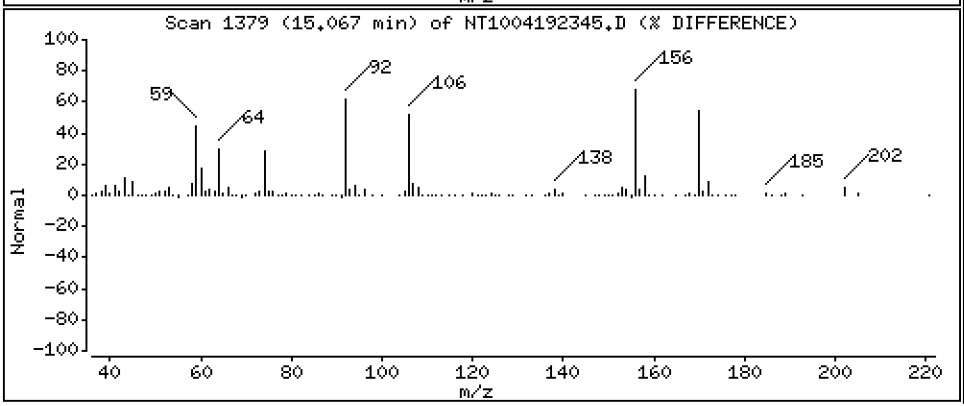












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

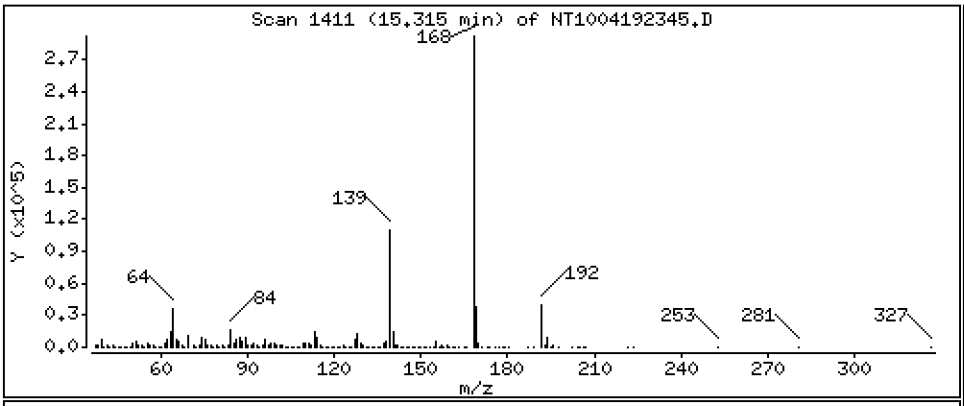
Operator: VTS

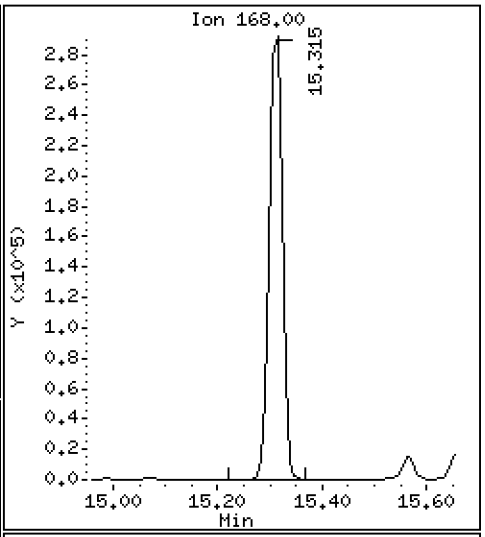
Column phase: ZB-5msi

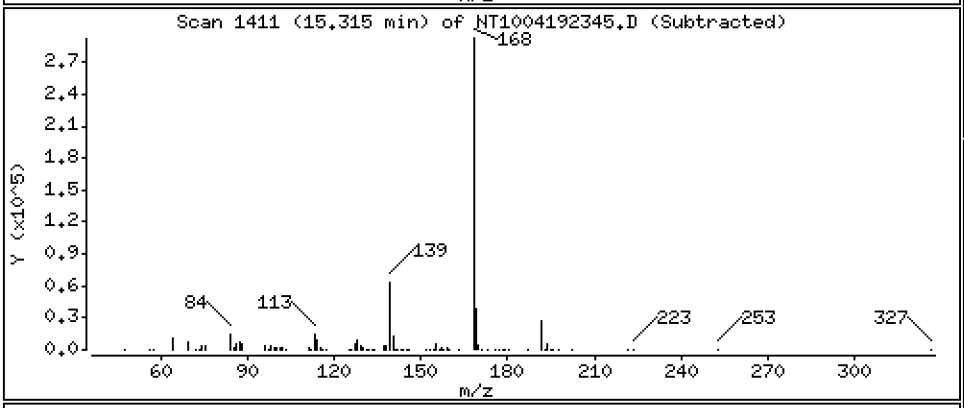
Column diameter: 0.25

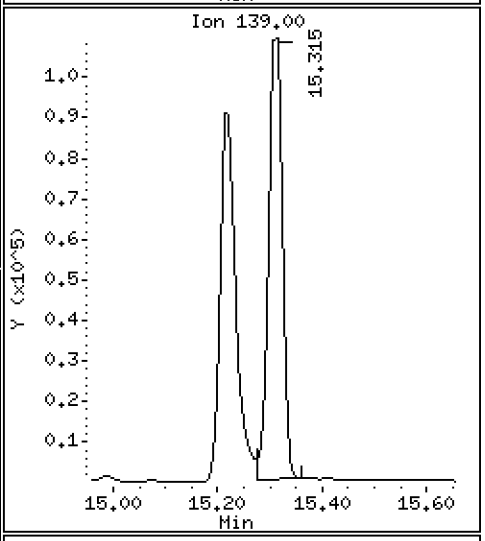
46 Dibenzofuran

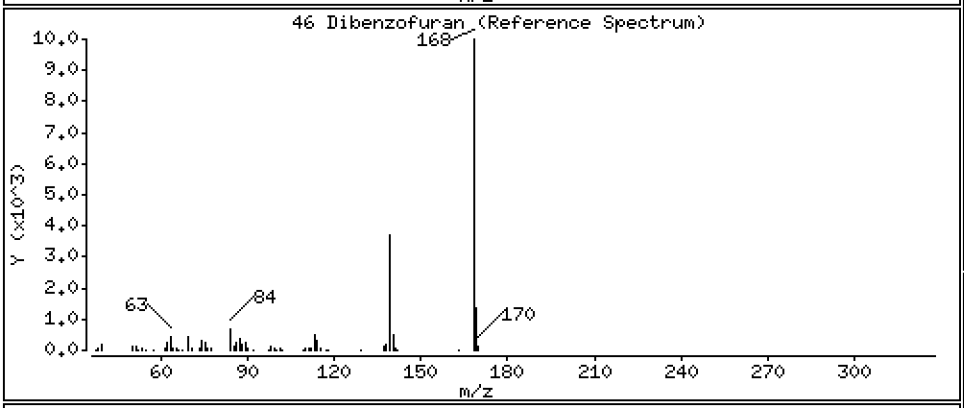
Concentration: 3.366 ug/mL

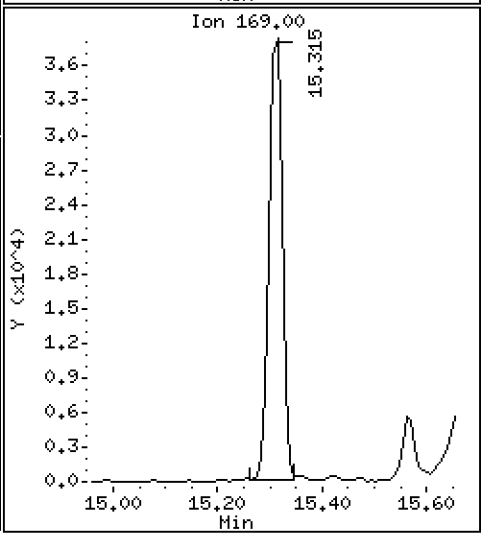


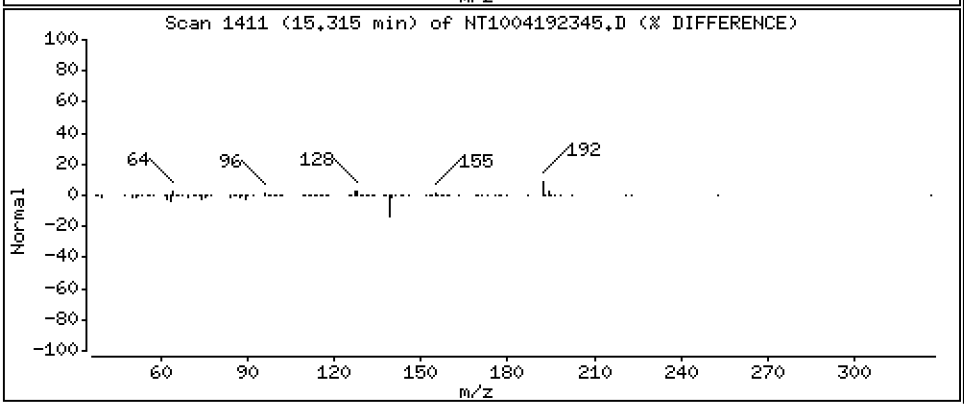












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

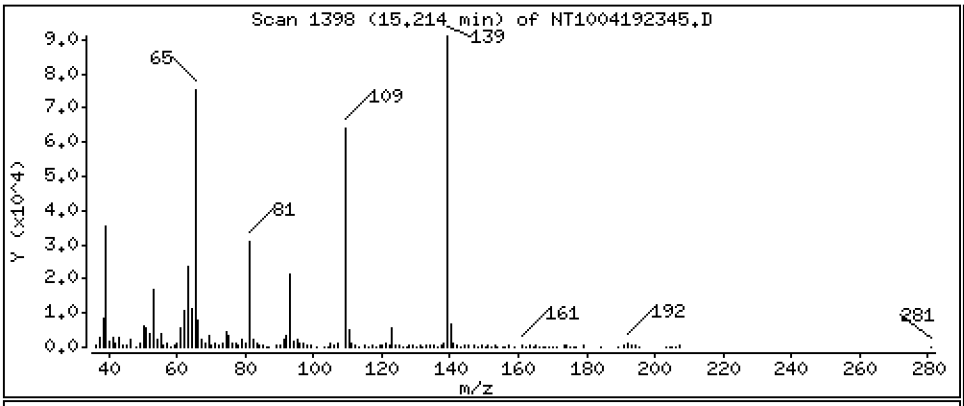
Operator: VTS

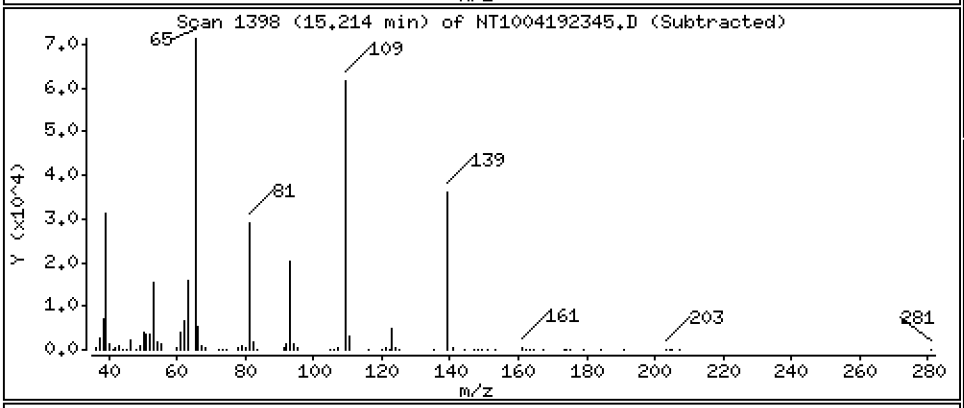
Column phase: ZB-5msi

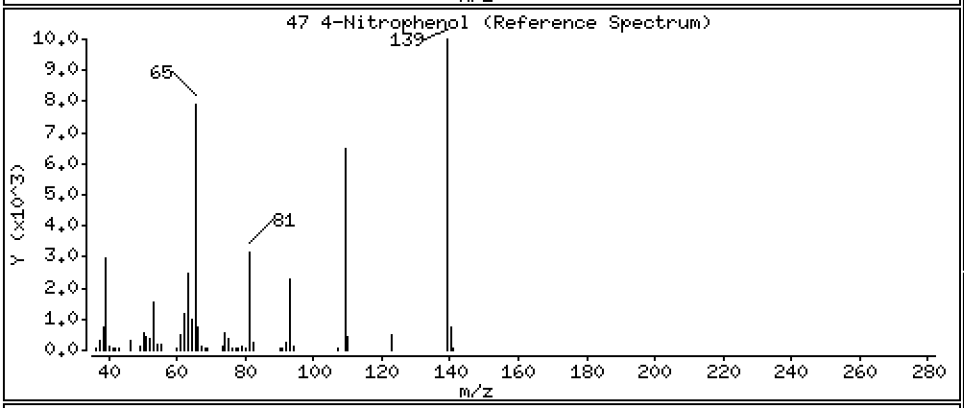
Column diameter: 0.25

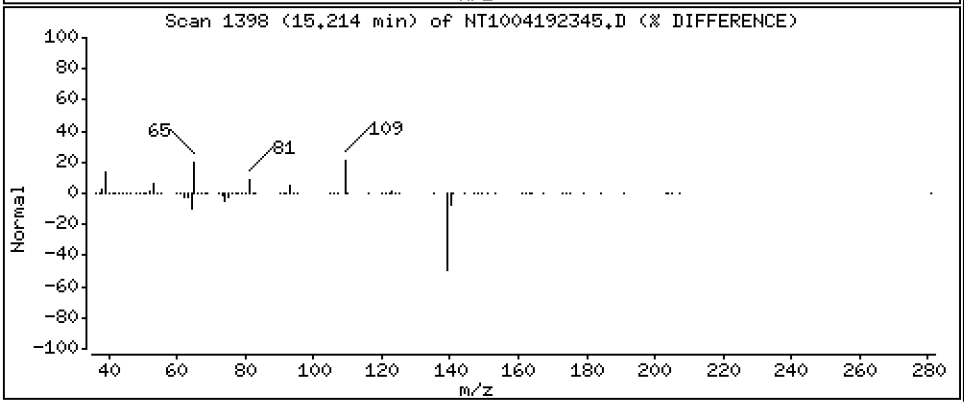
47 4-Nitrophenol

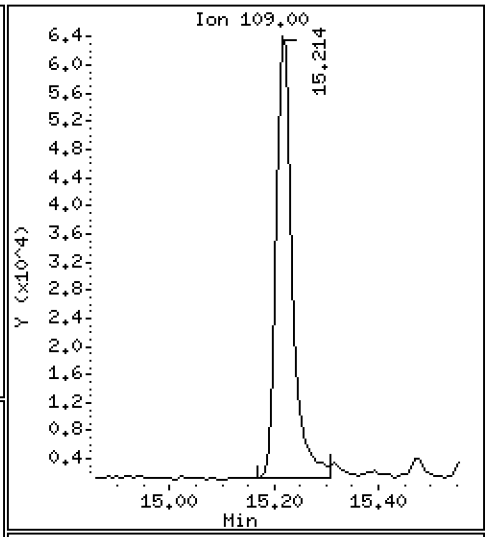
Concentration: 8.375 ug/mL

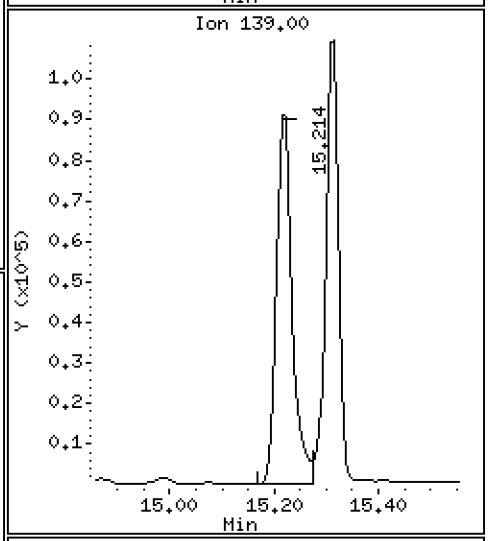


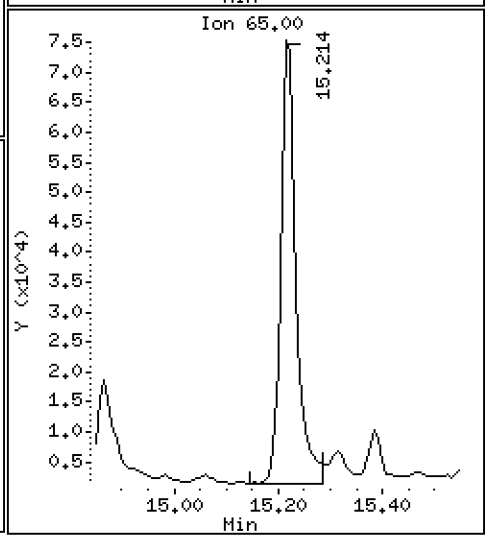












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

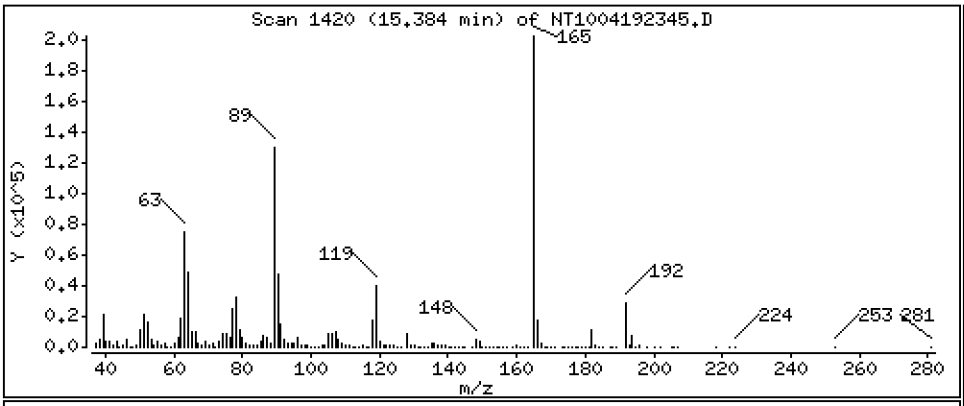
Operator: VTS

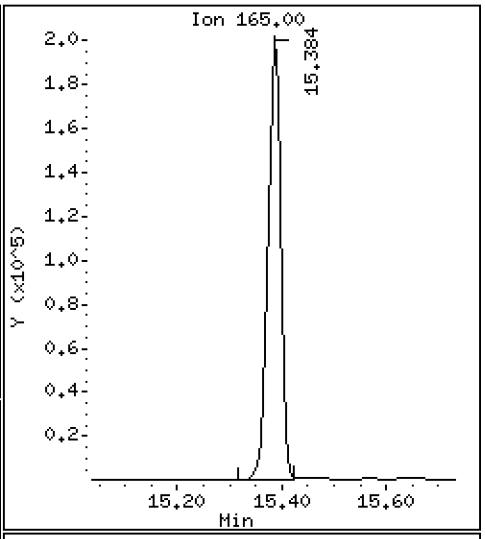
Column phase: ZB-5msi

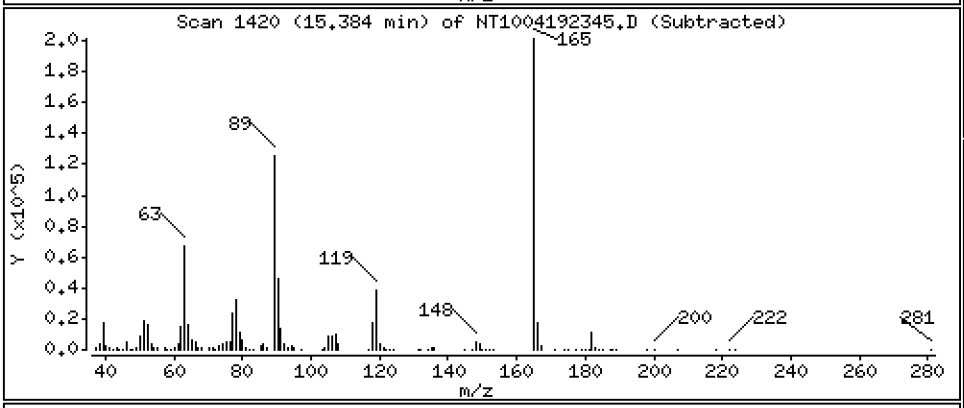
Column diameter: 0.25

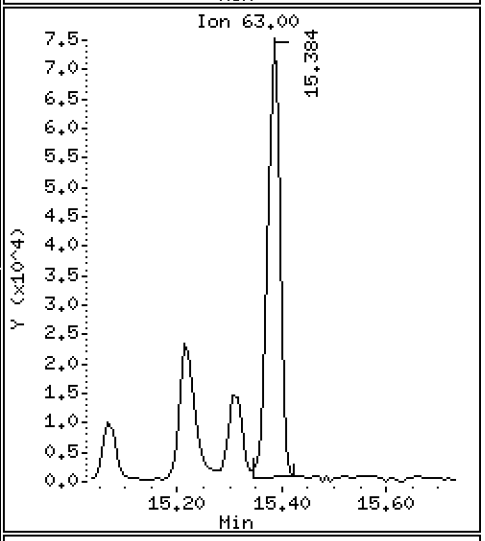
48 2,4-Dinitrotoluene

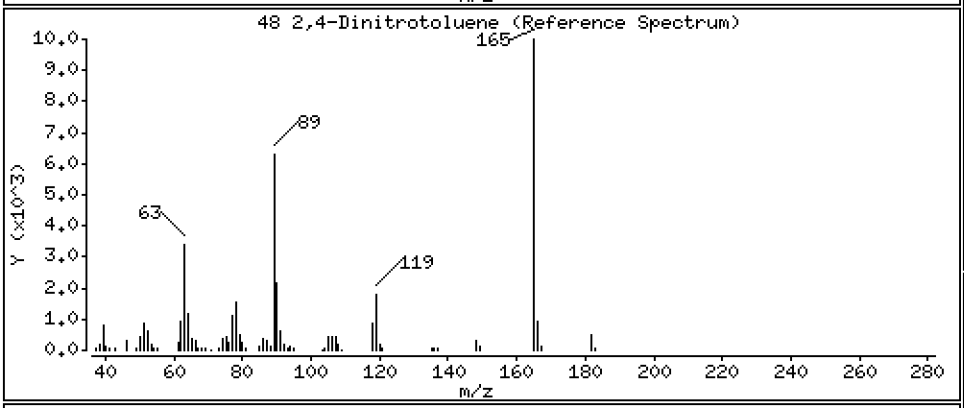
Concentration: 9.625 ug/mL

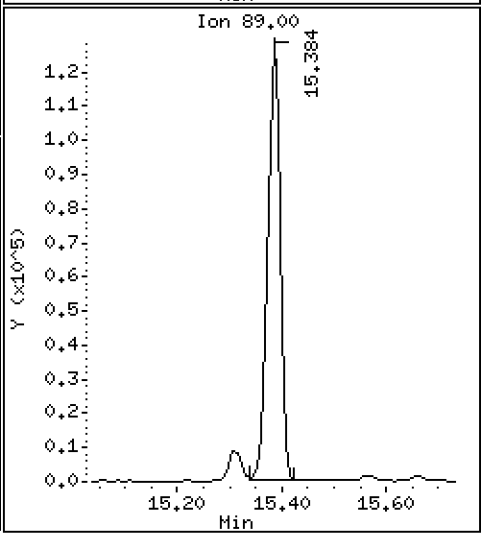


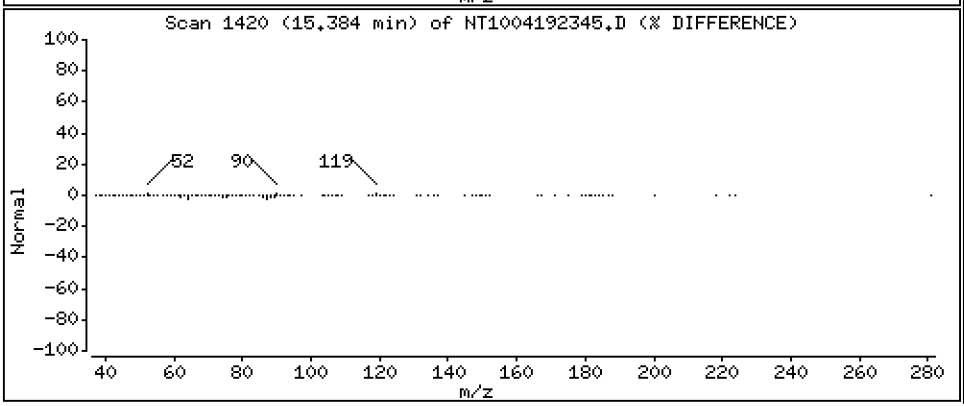












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

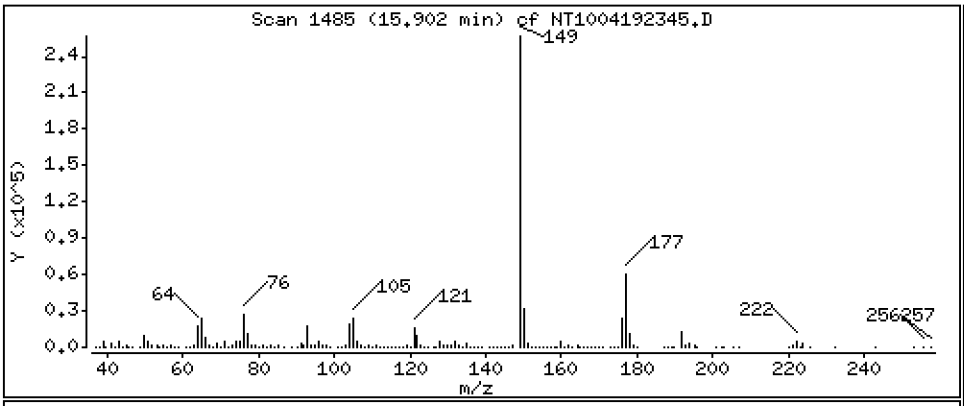
Operator: VTS

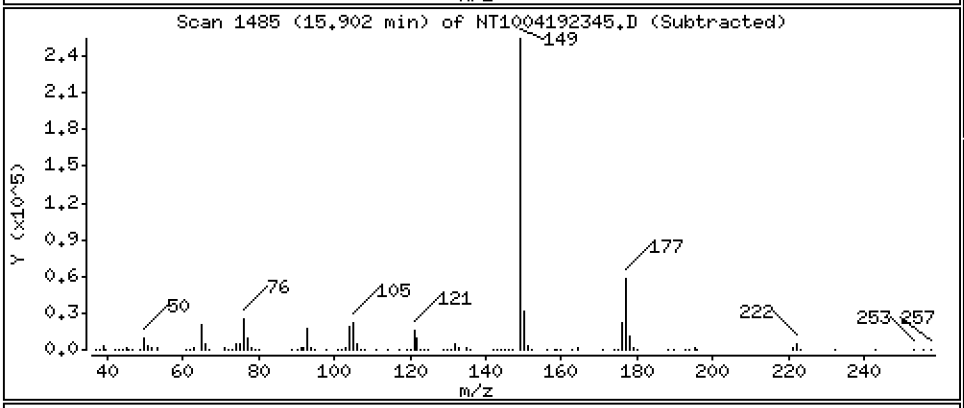
Column phase: ZB-5msi

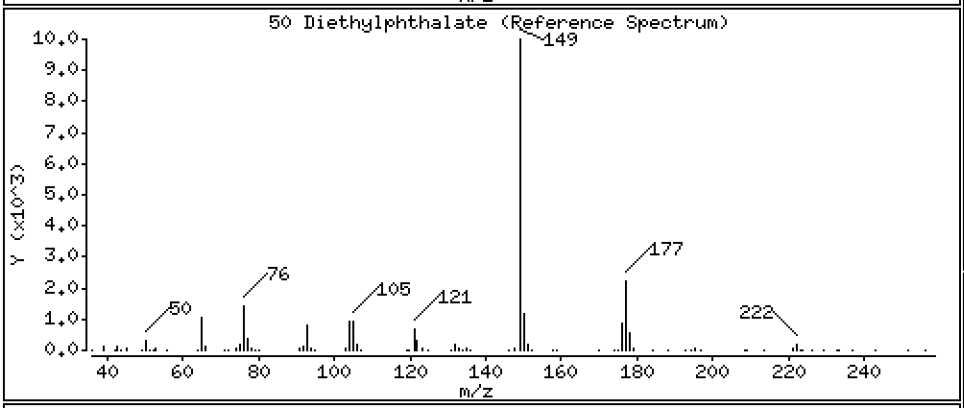
Column diameter: 0.25

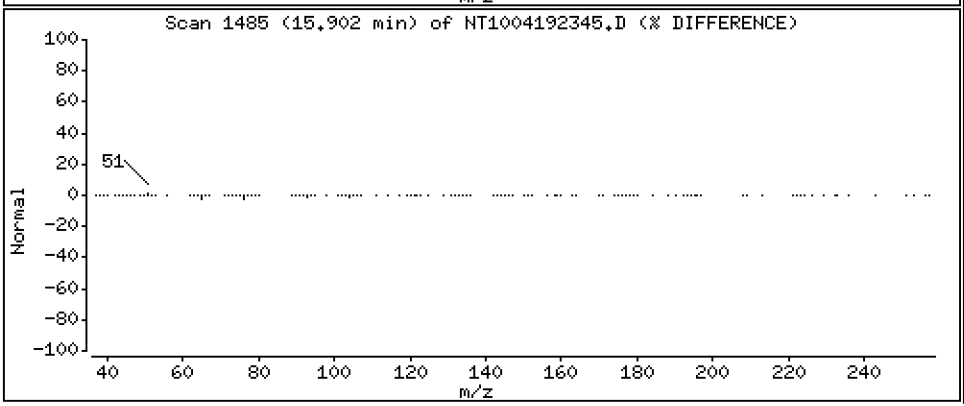
50 Diethylphthalate

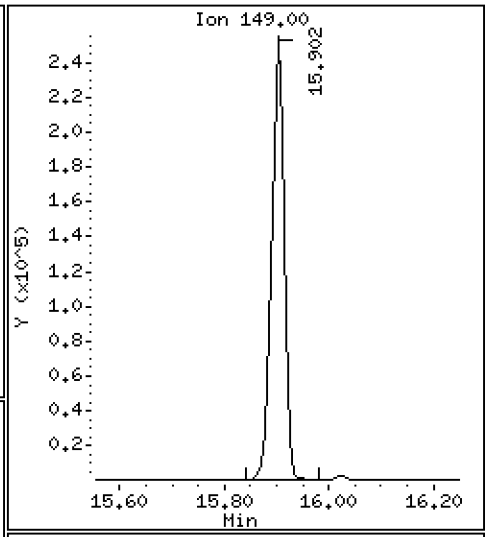
Concentration: 4.541 ug/mL

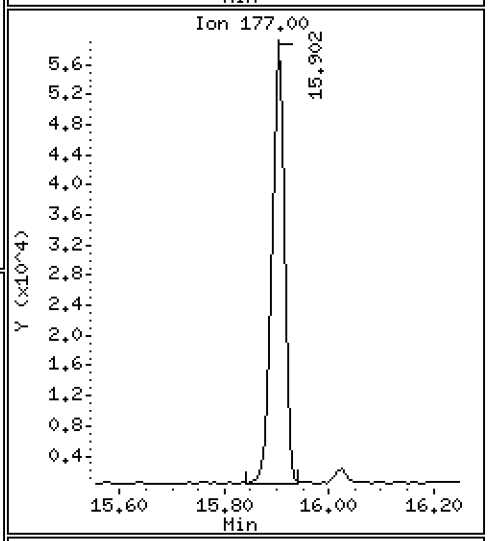


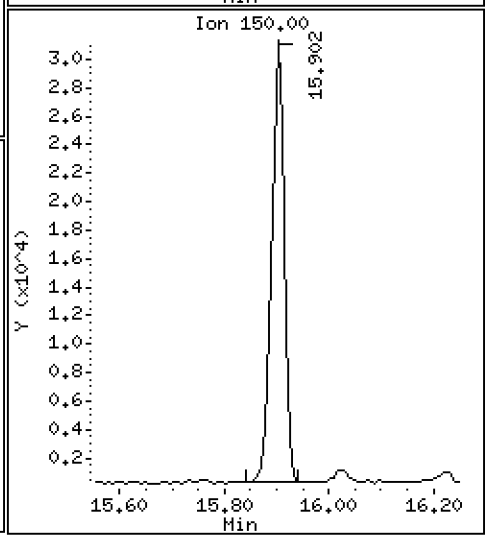












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

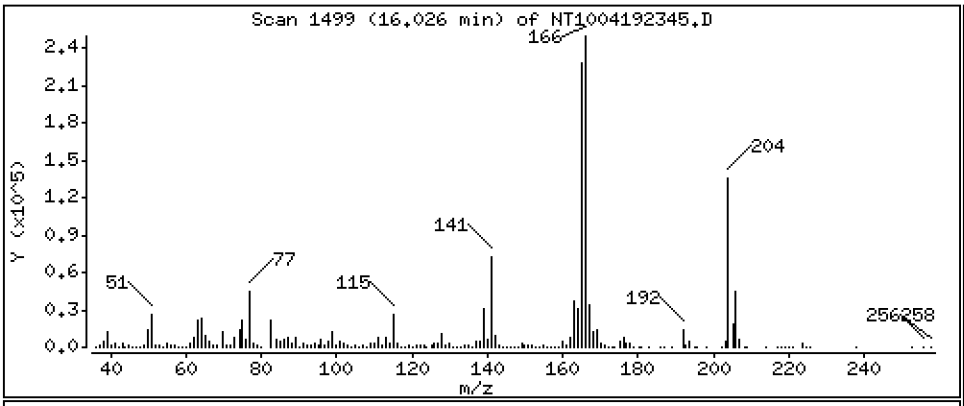
Operator: VTS

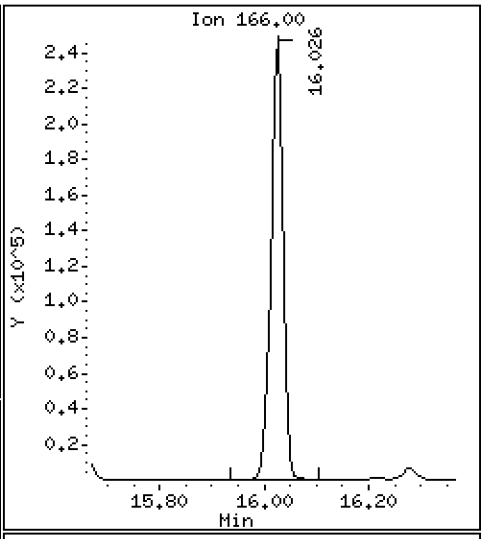
Column phase: ZB-5msi

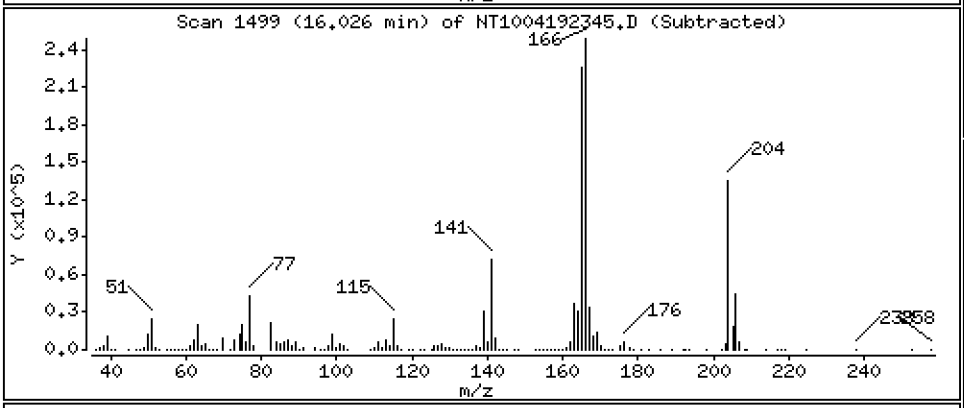
Column diameter: 0.25

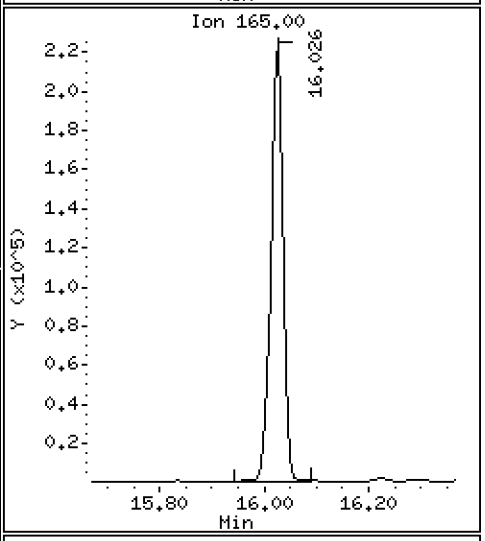
49 Fluorene

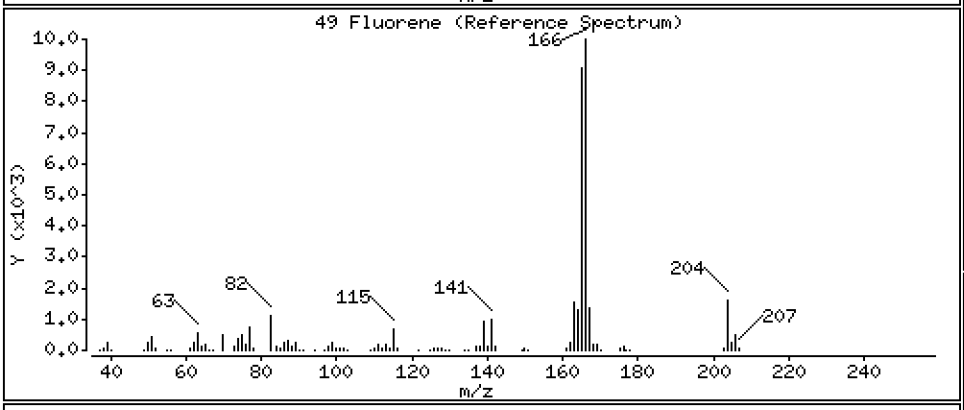
Concentration: 3.861 ug/mL

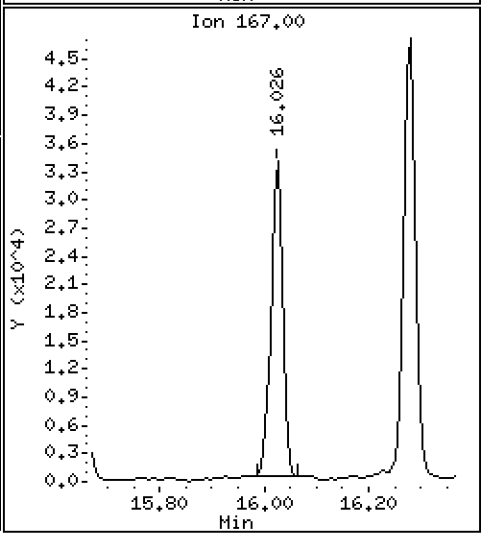


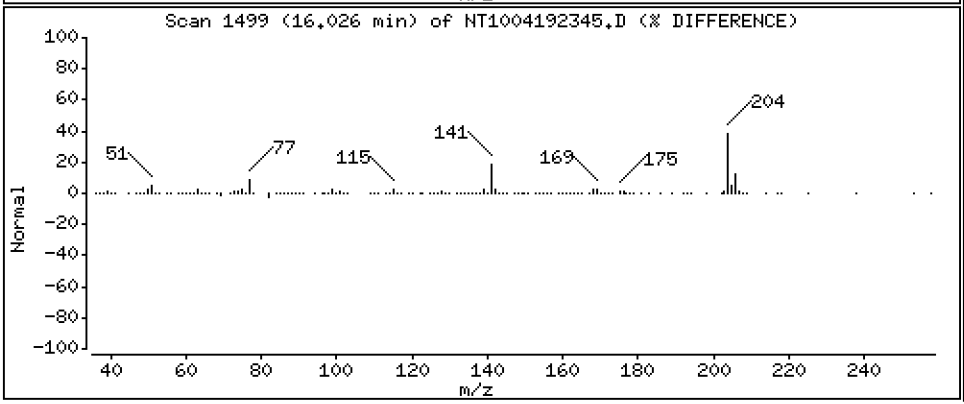












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

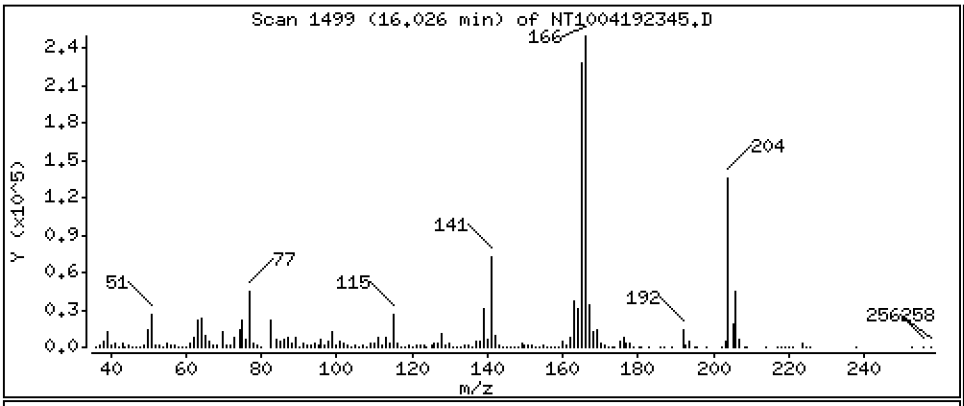
Operator: VTS

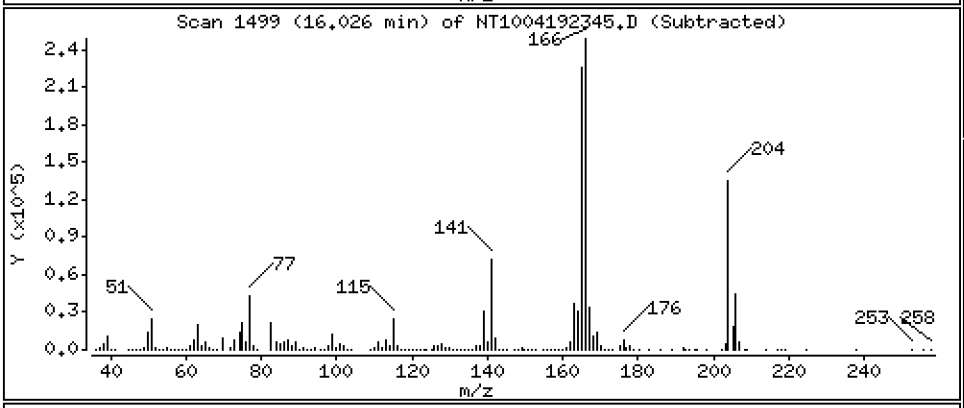
Column phase: ZB-5msi

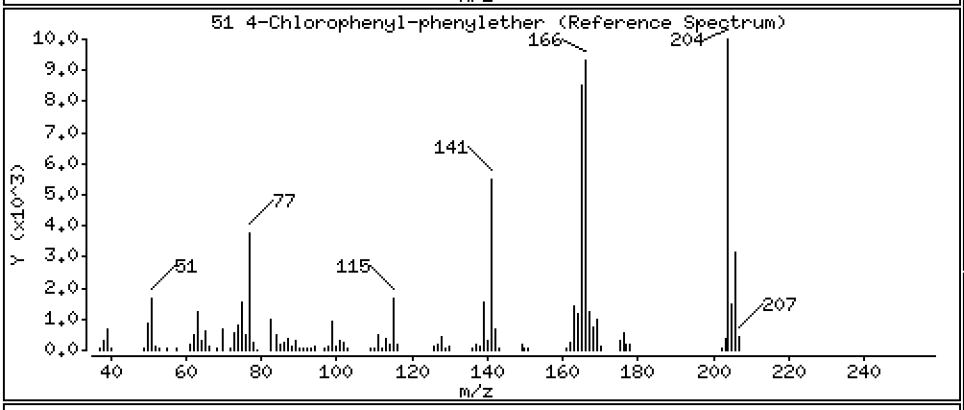
Column diameter: 0.25

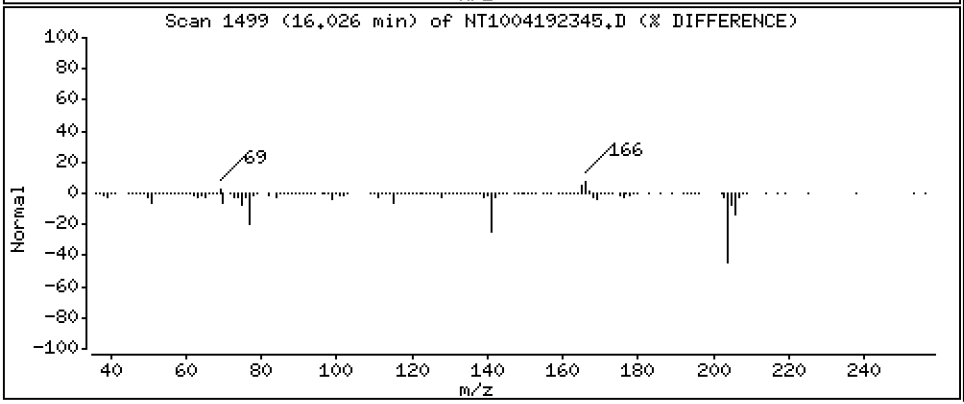
51 4-Chlorophenyl-phenylether

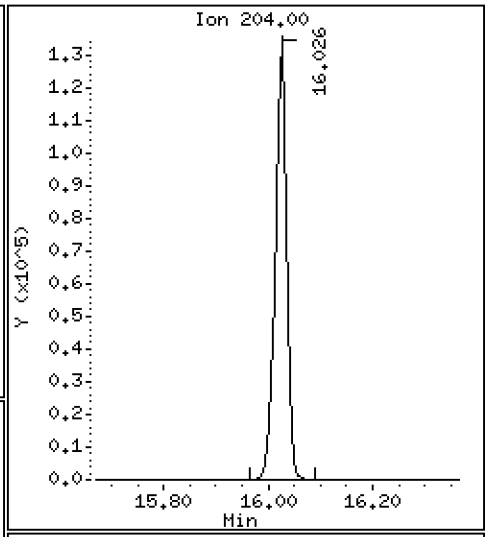
Concentration: 3.729 ug/mL

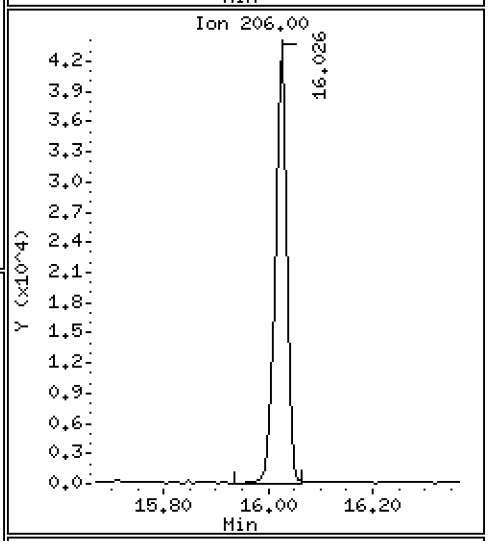


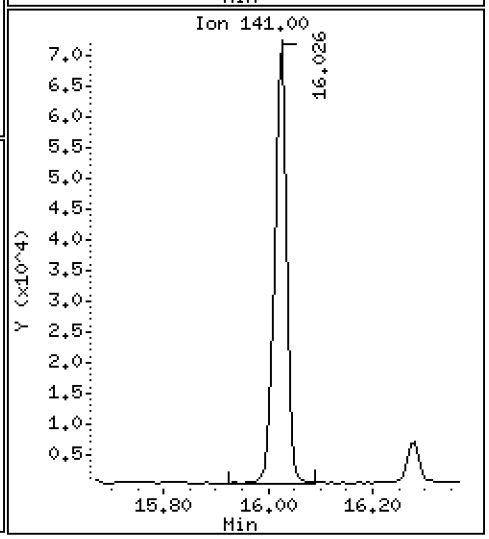












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192345.D

Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

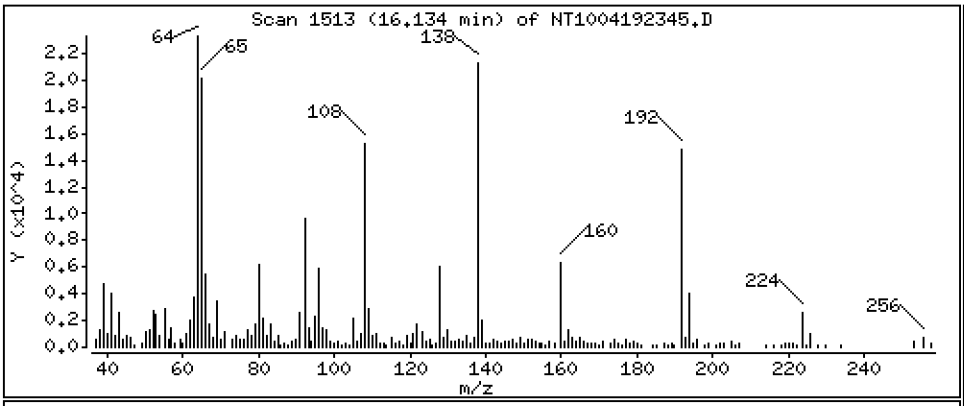
Operator: VTS

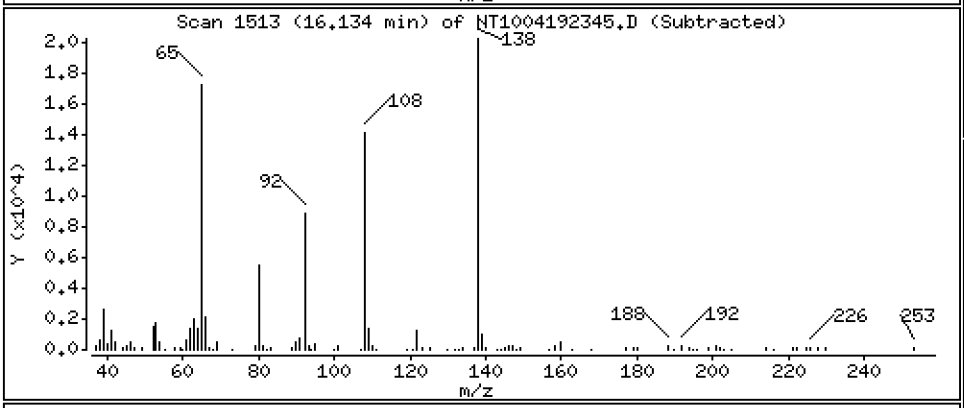
Column phase: ZB-5msi

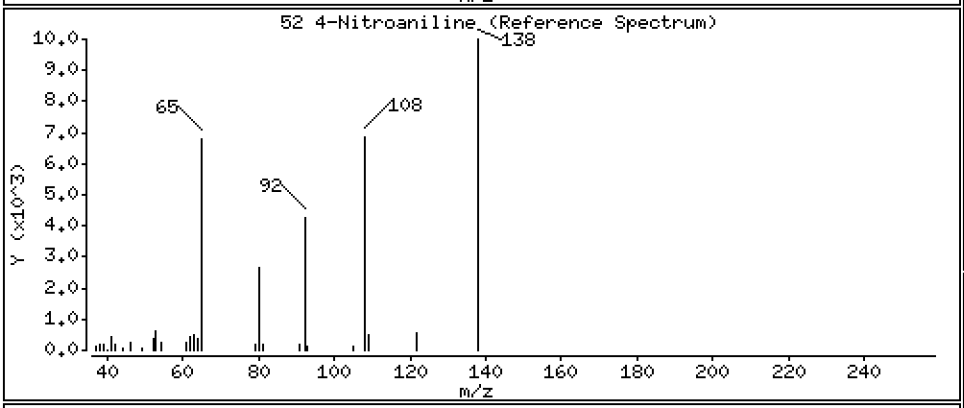
Column diameter: 0.25

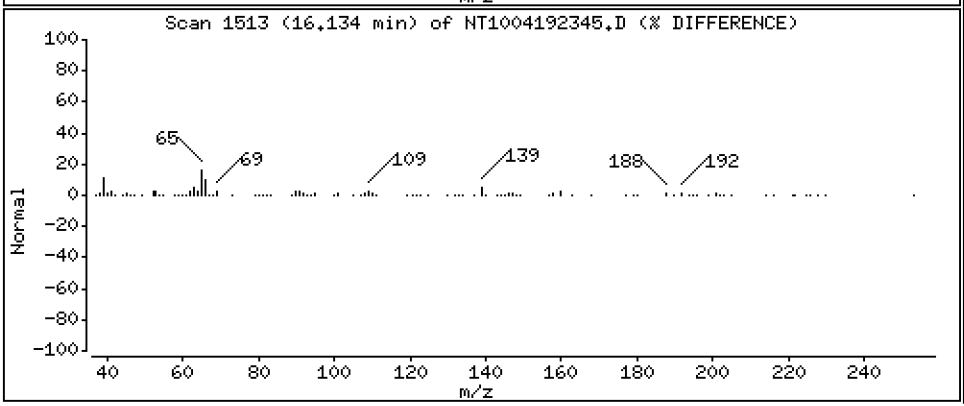
52 4-Nitroaniline

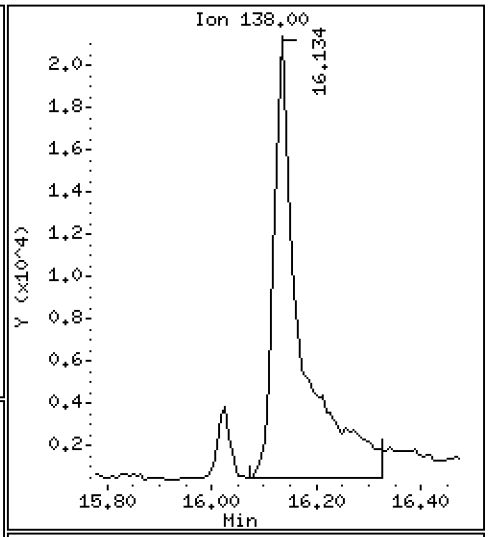
Concentration: 3.173 ug/mL

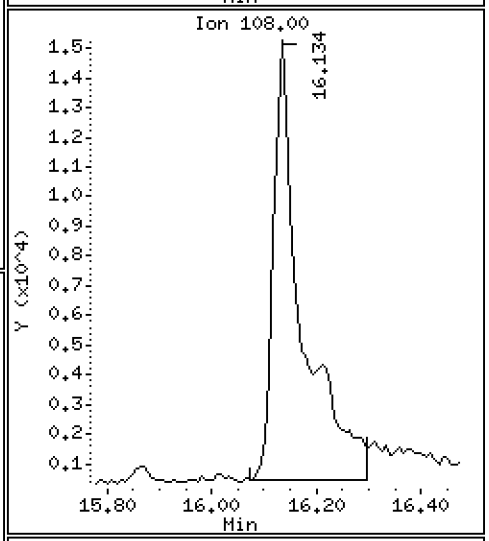


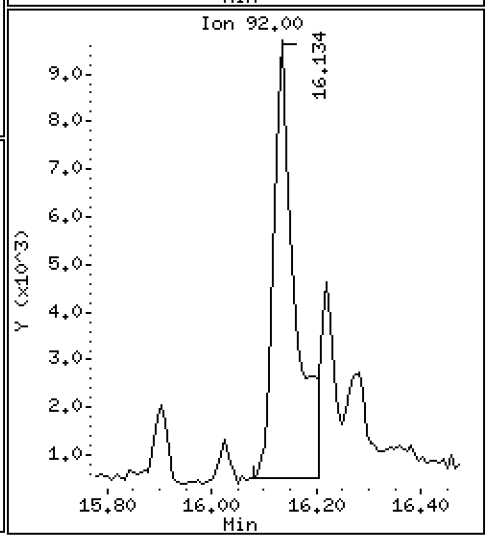












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

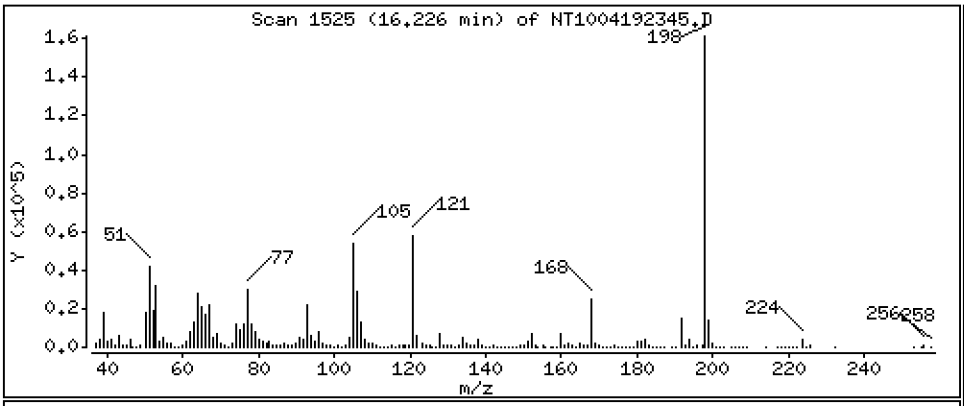
Operator: VTS

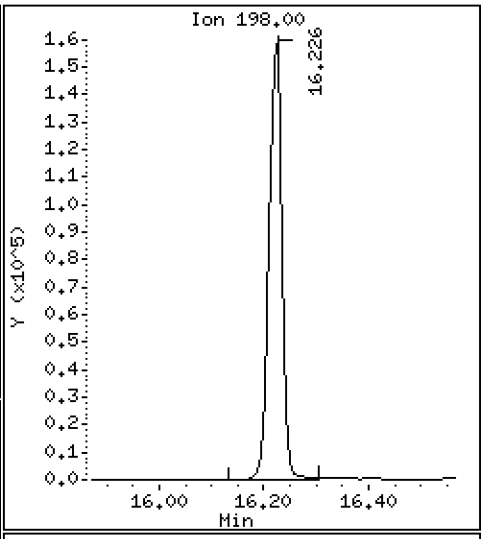
Column phase: ZB-5msi

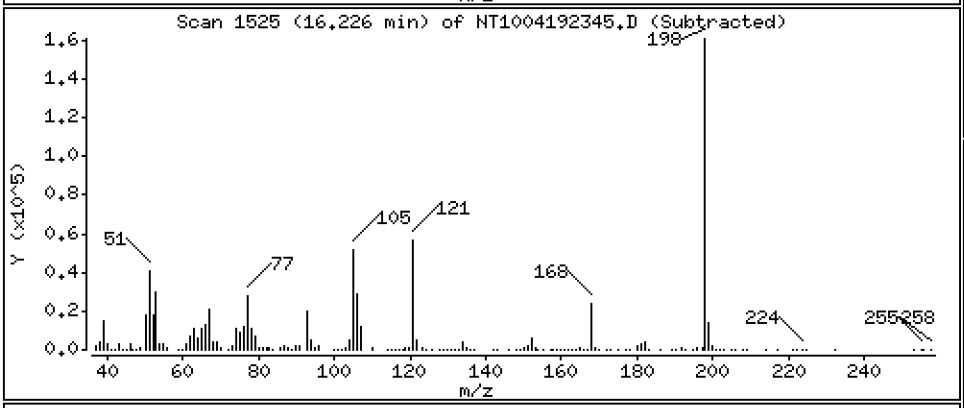
Column diameter: 0.25

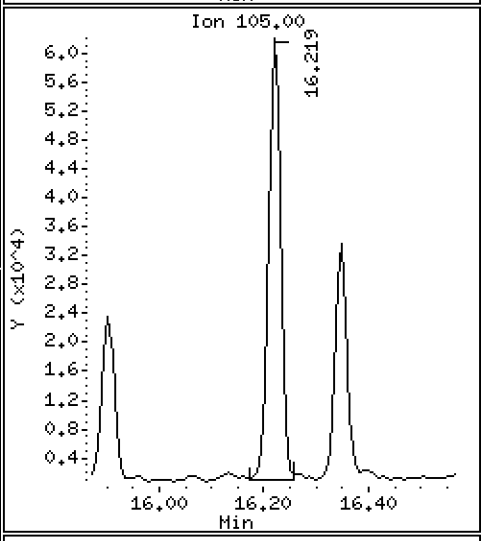
53 4,6-Dinitro-2-methylphenol

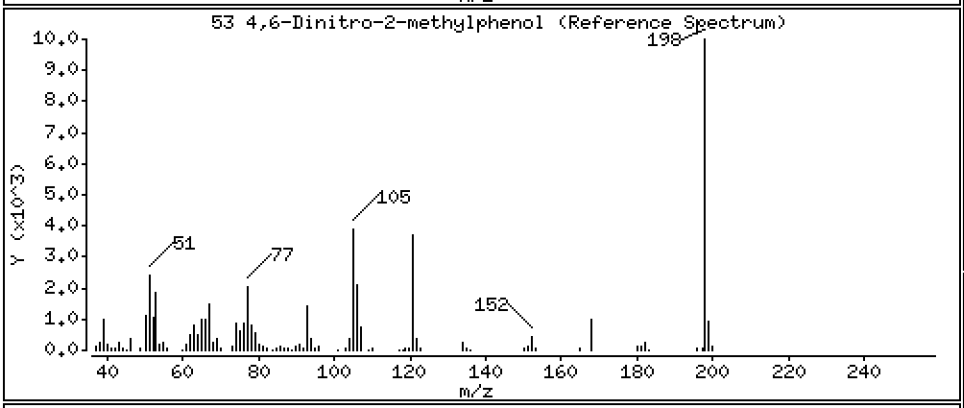
Concentration: 14.80 ug/mL

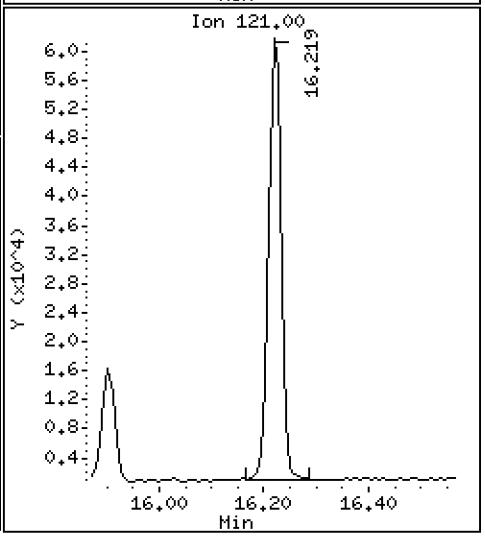


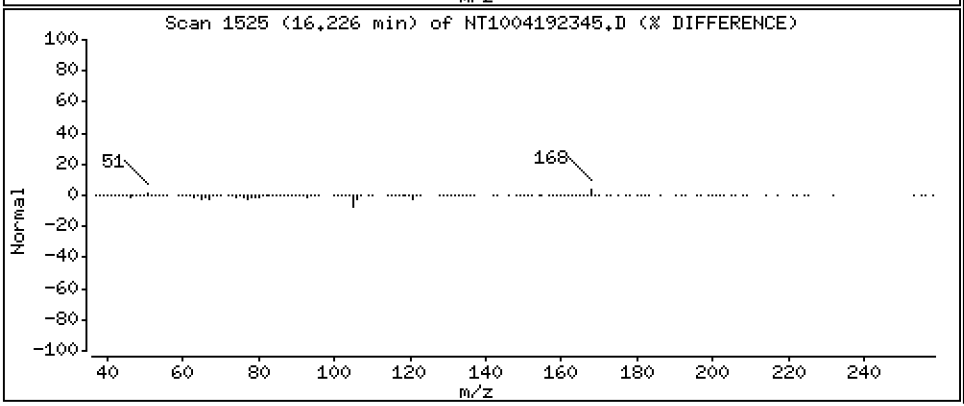












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

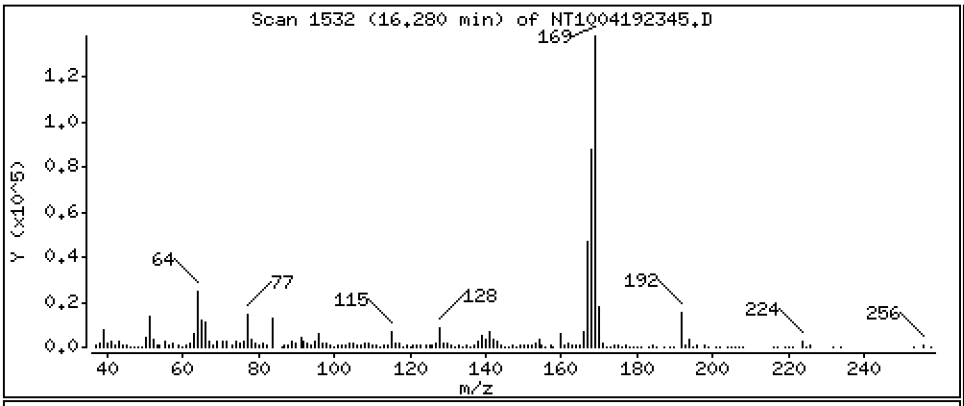
Operator: VTS

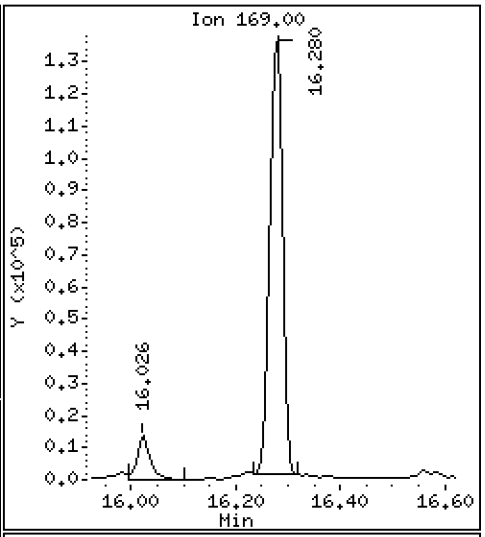
Column phase: ZB-5msi

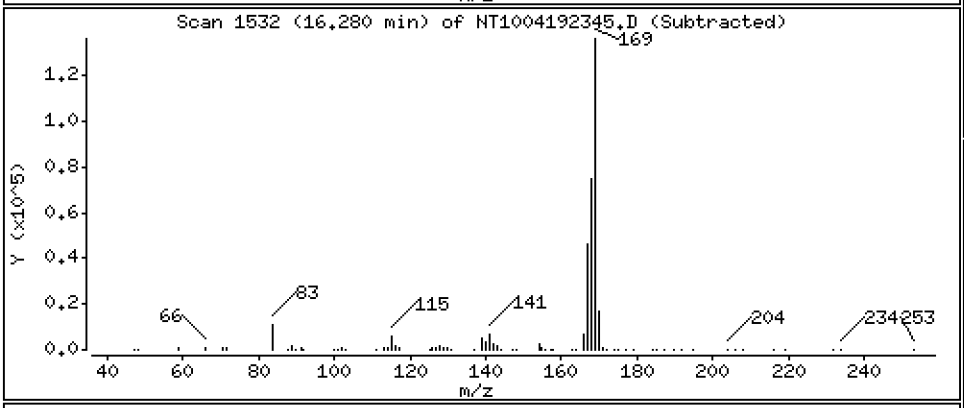
Column diameter: 0.25

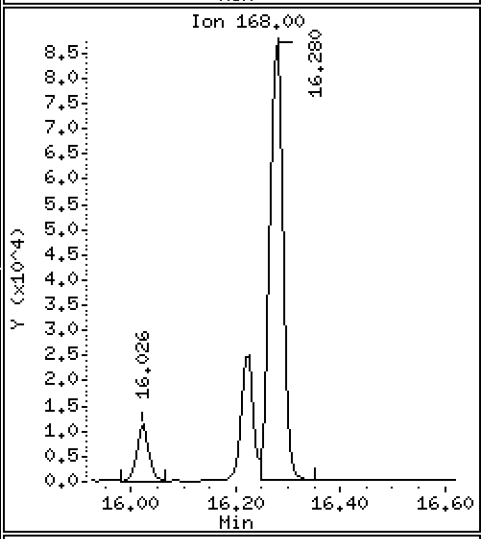
54 N-Nitrosodiphenylamine

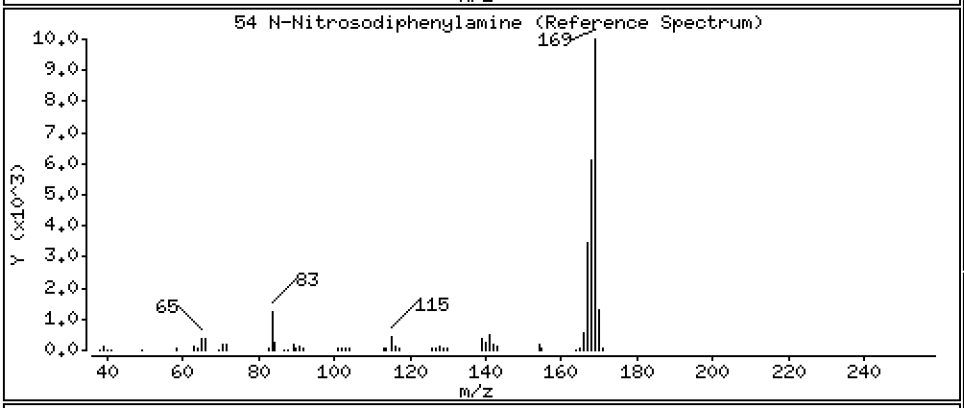
Concentration: 2.902 ug/mL

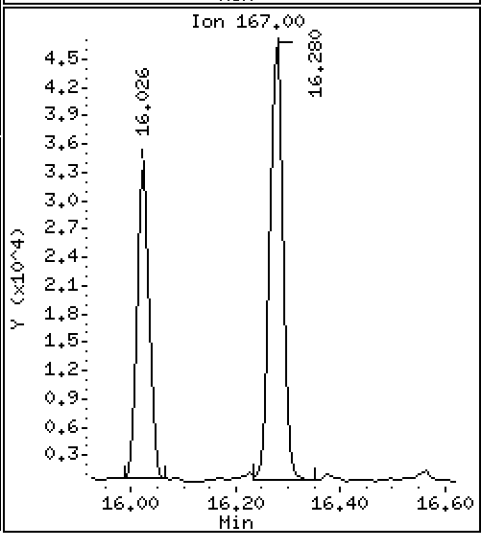


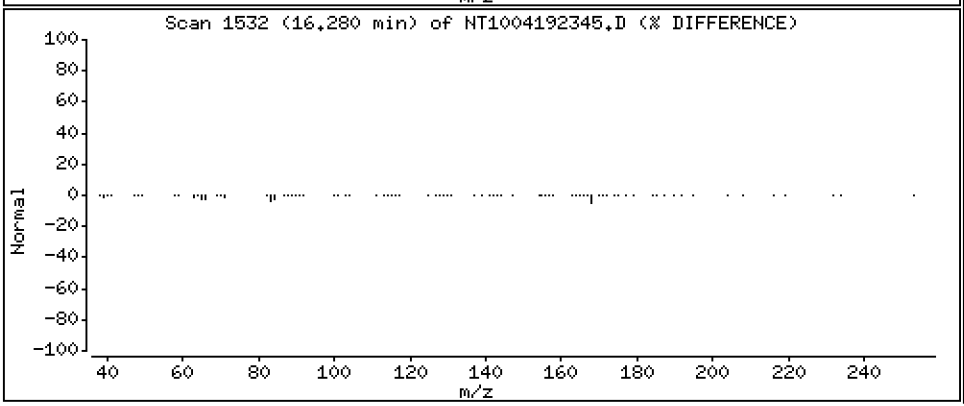












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

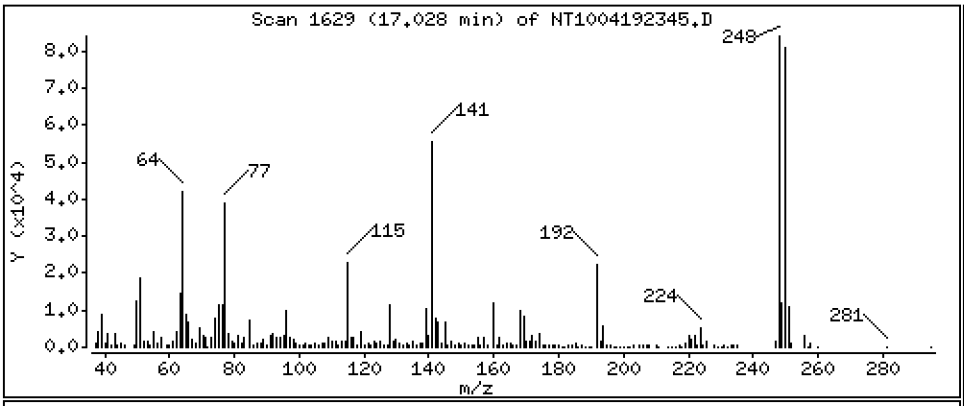
Operator: VTS

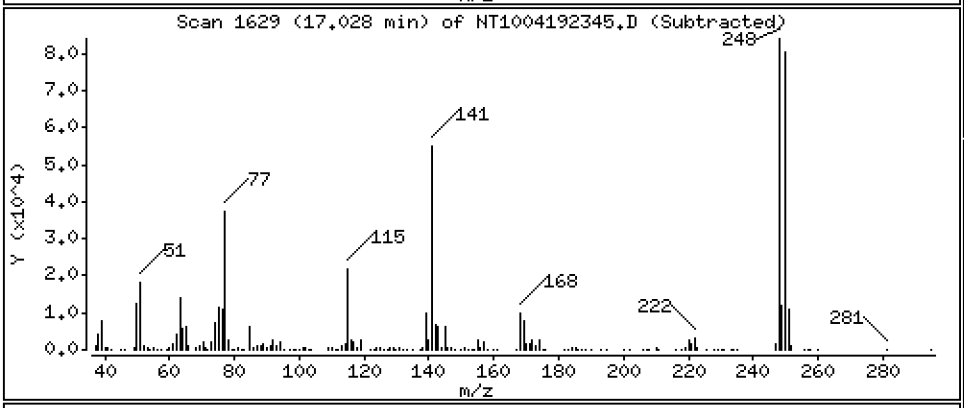
Column phase: ZB-5msi

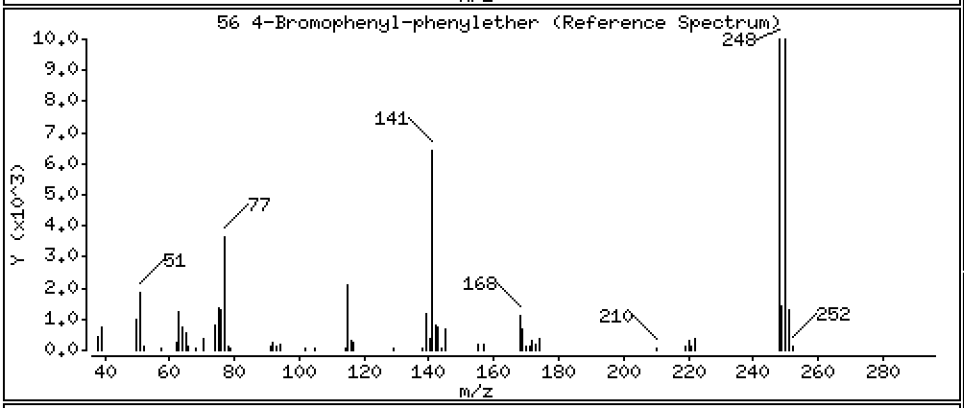
Column diameter: 0.25

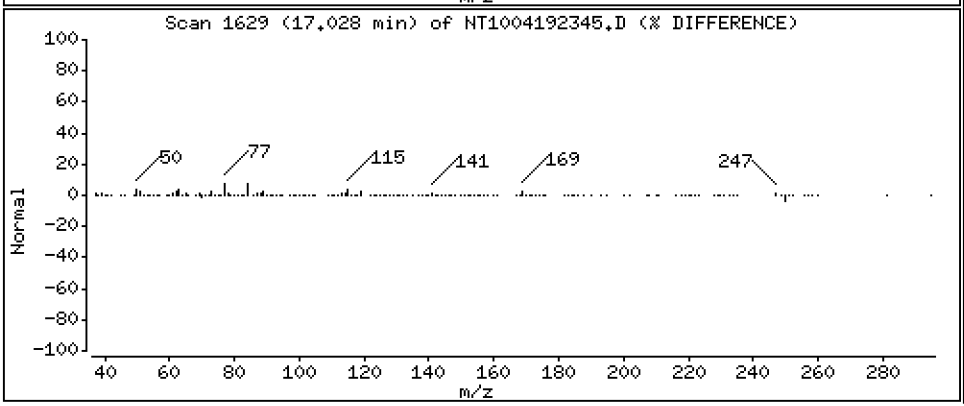
56 4-Bromophenyl-phenylether

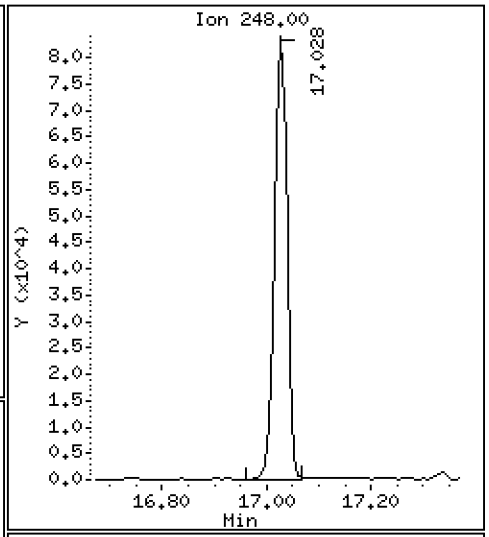
Concentration: 4.120 ug/mL

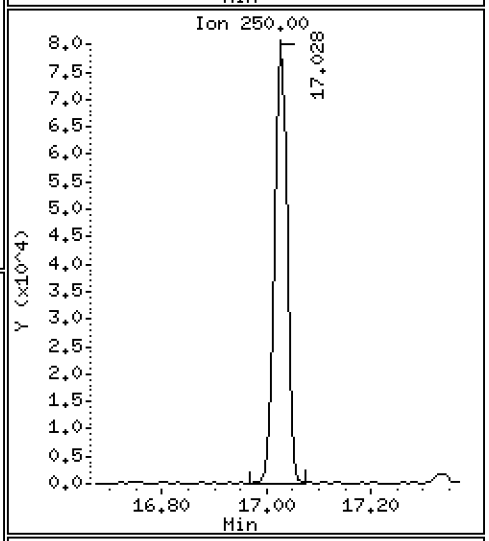


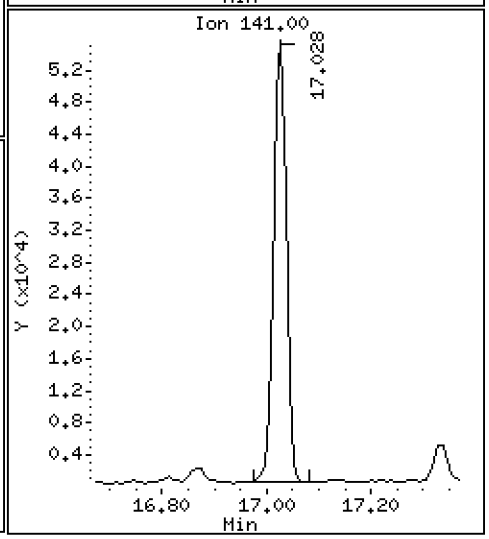












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

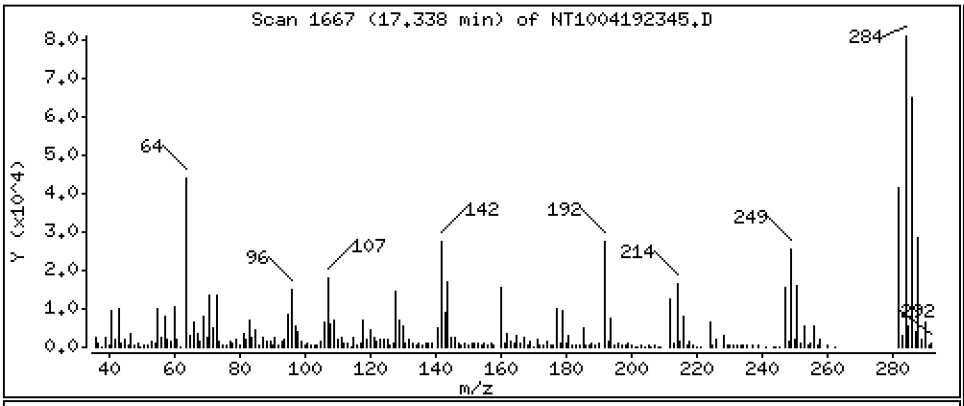
Operator: VTS

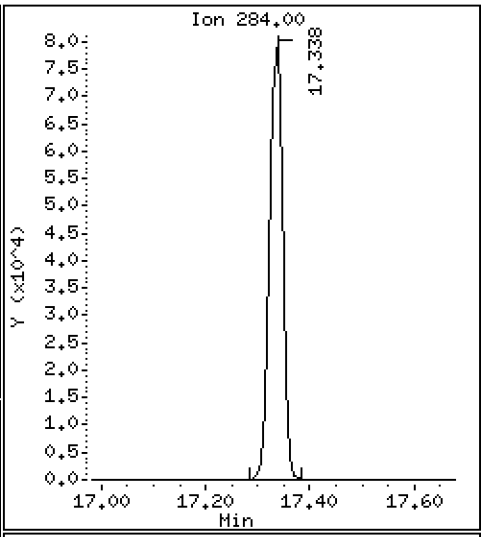
Column phase: ZB-5msi

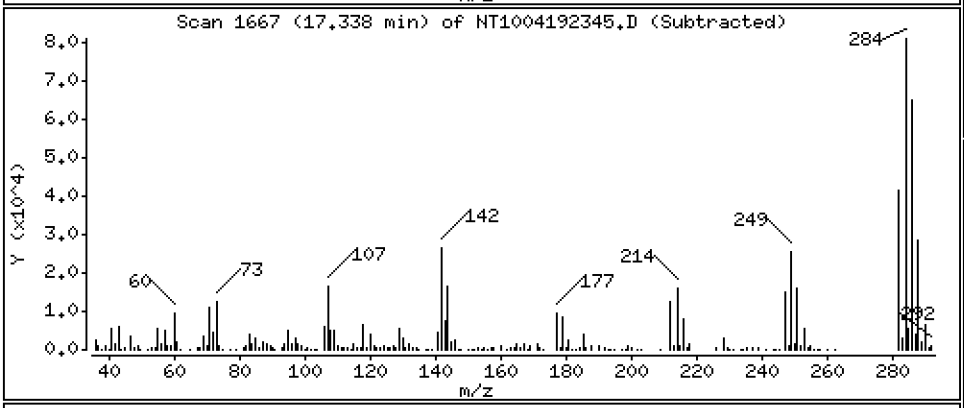
Column diameter: 0.25

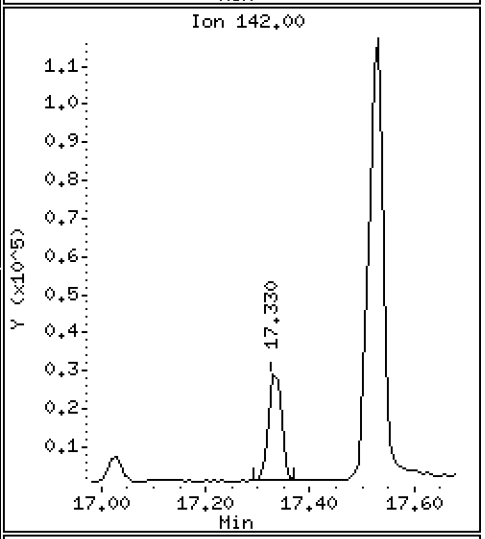
57 Hexachlorobenzene

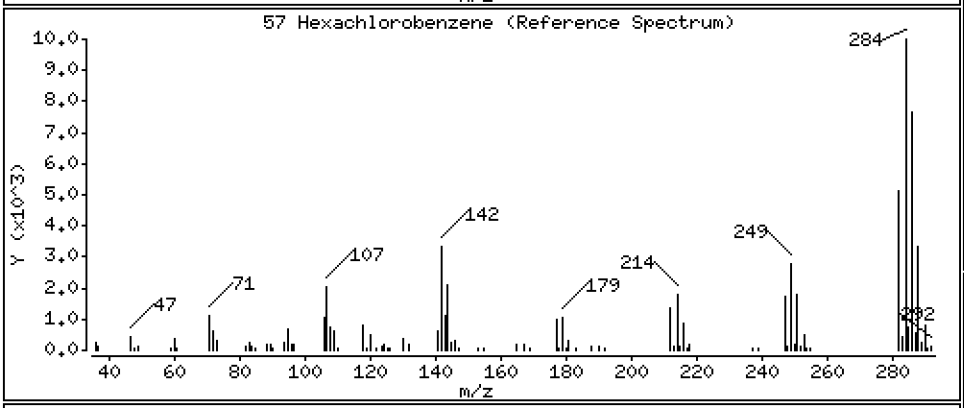
Concentration: 3.952 ug/mL

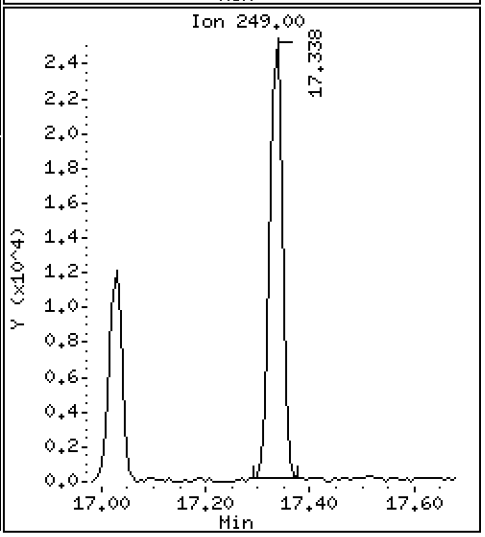


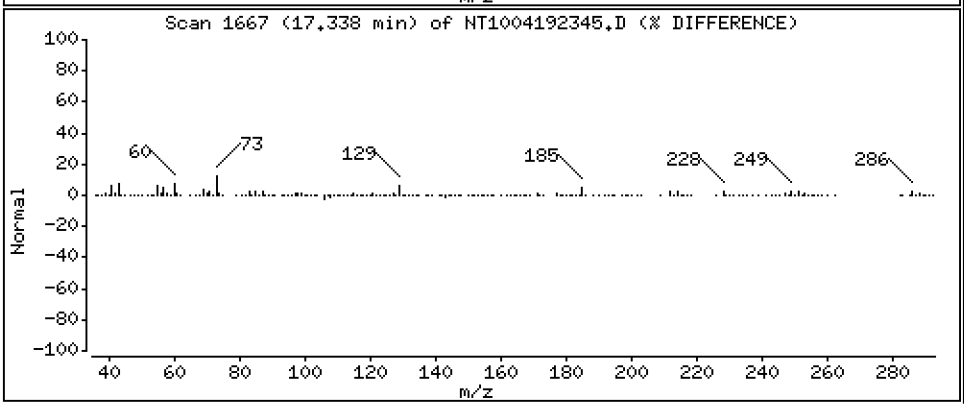












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

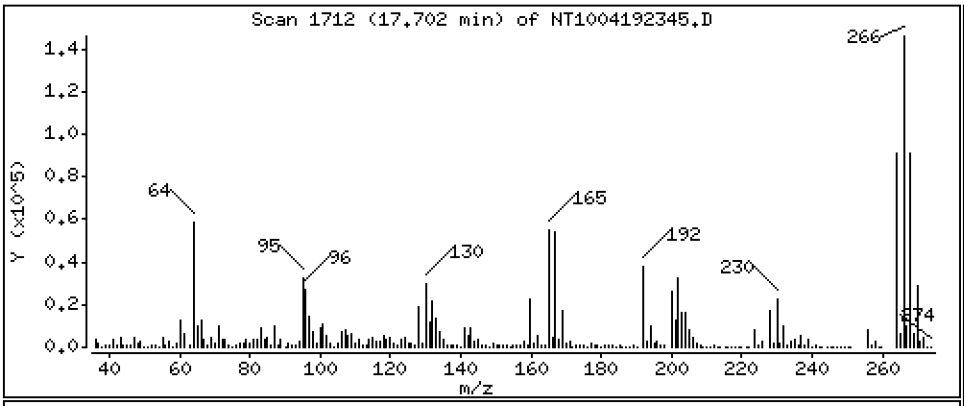
Operator: VTS

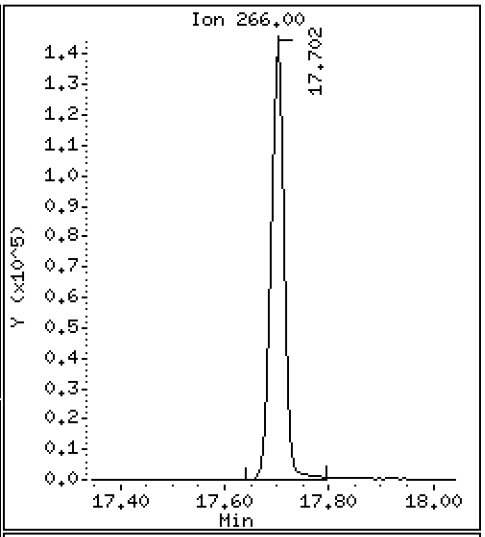
Column phase: ZB-5msi

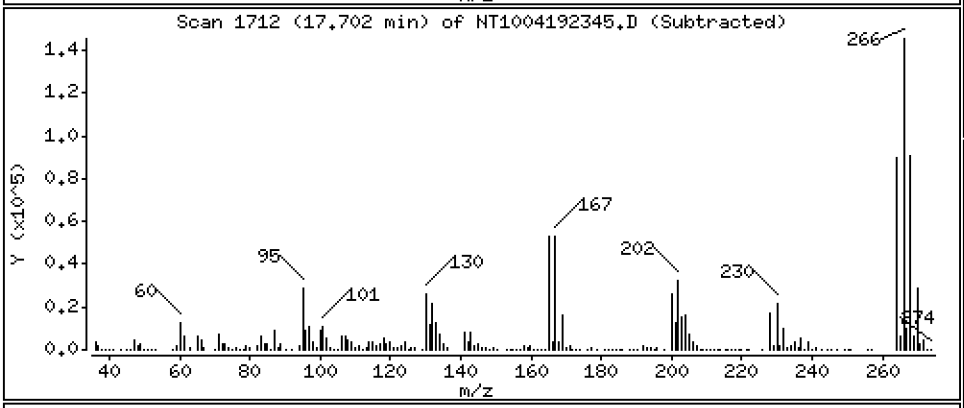
Column diameter: 0.25

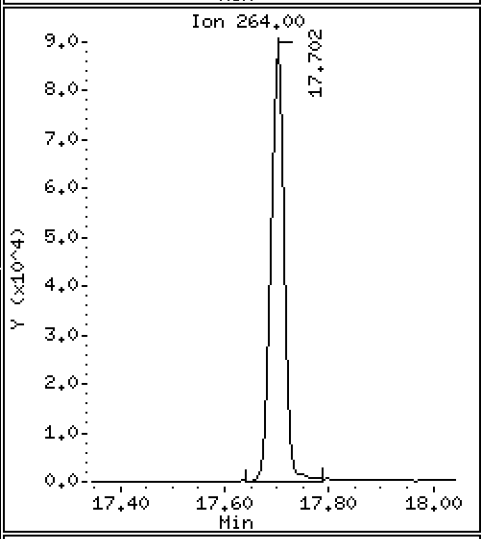
58 Pentachlorophenol

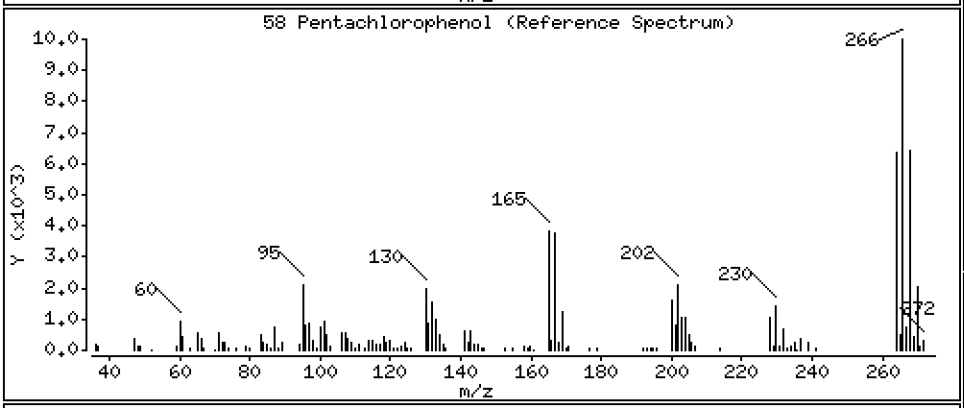
Concentration: 12.06 ug/mL

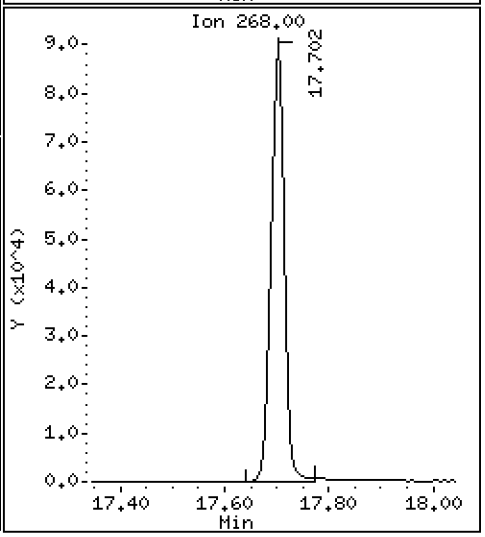


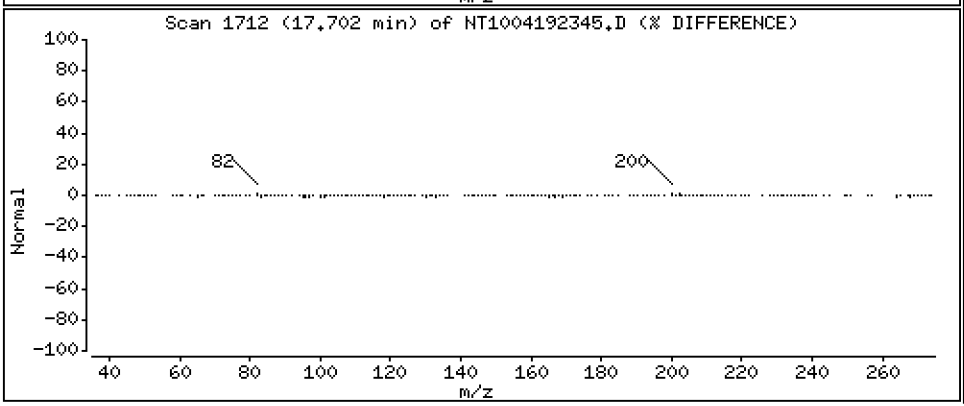












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

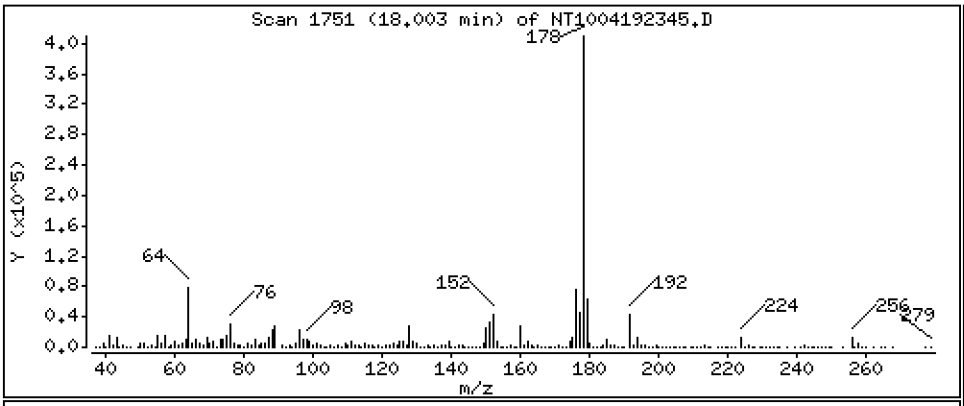
Operator: VTS

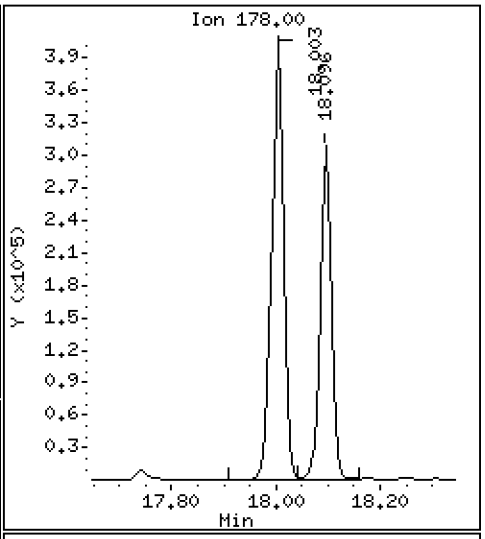
Column phase: ZB-5msi

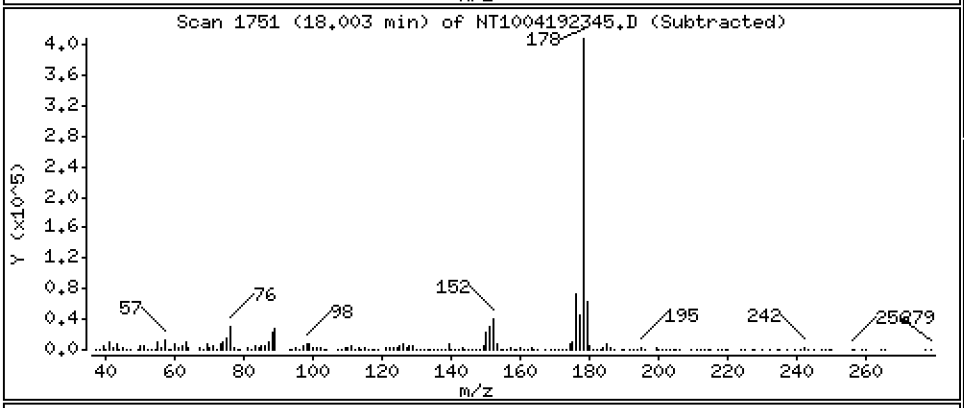
Column diameter: 0.25

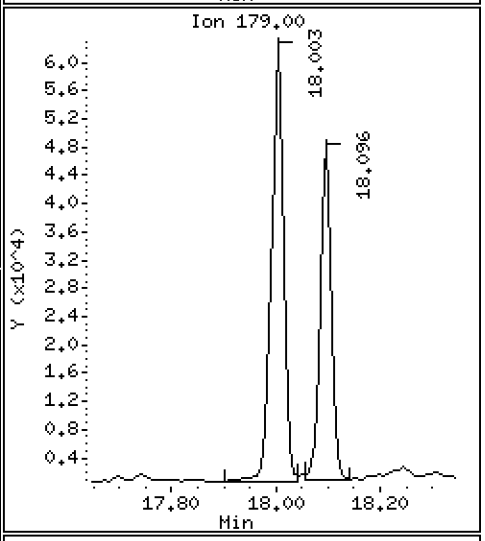
60 Phenanthrene

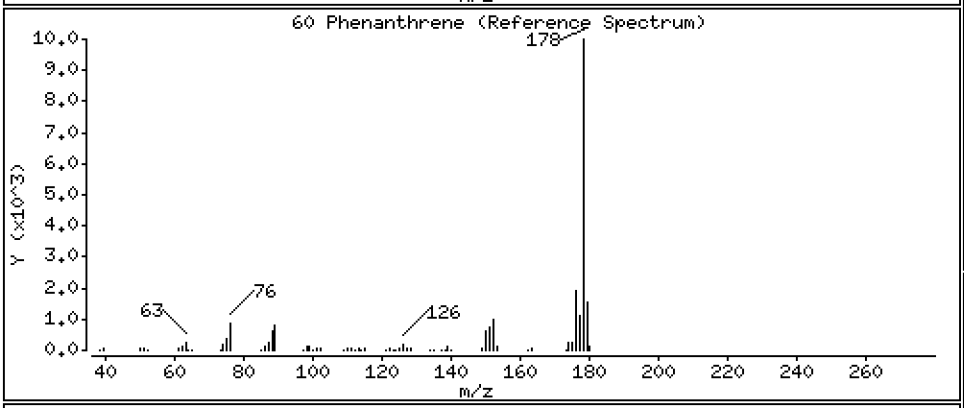
Concentration: 4.007 ug/mL

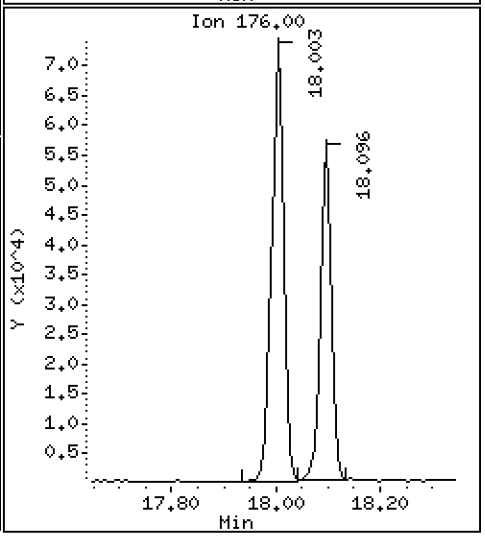


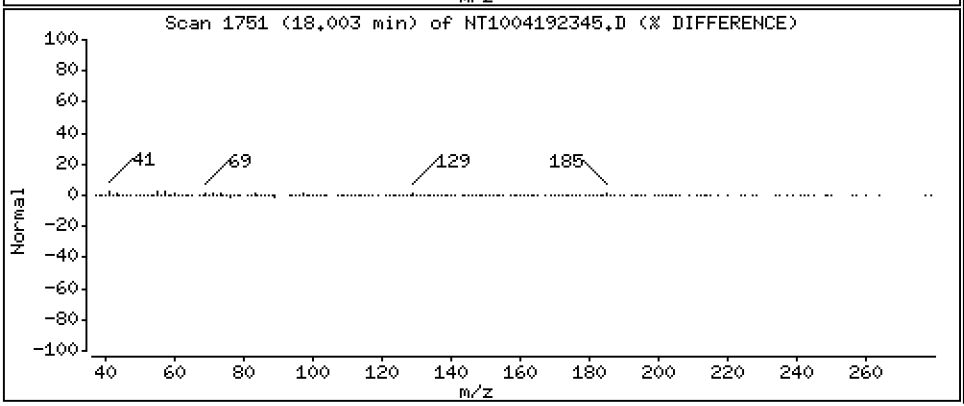












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192345.D

Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

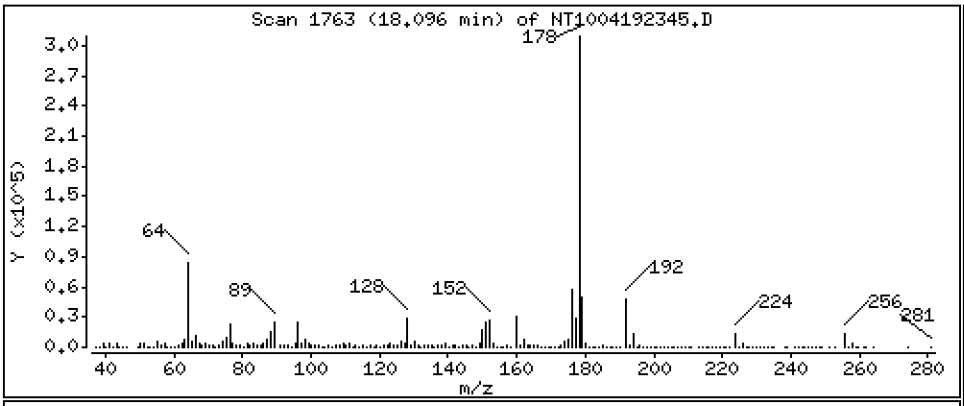
Operator: VTS

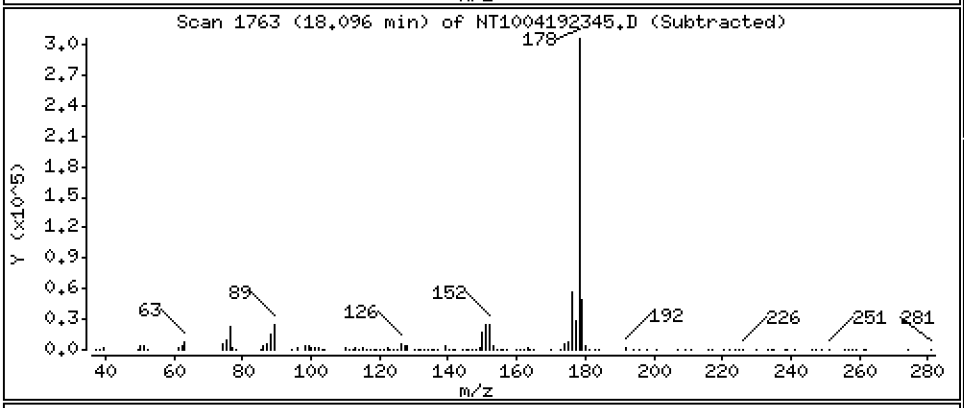
Column phase: ZB-5msi

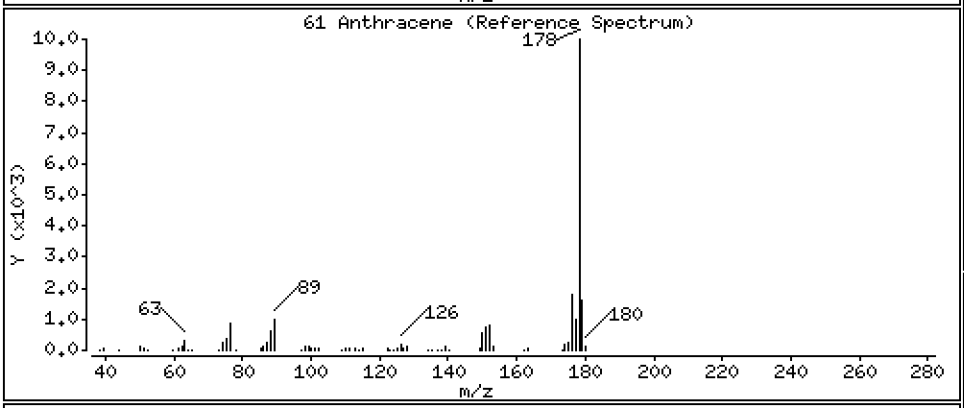
Column diameter: 0.25

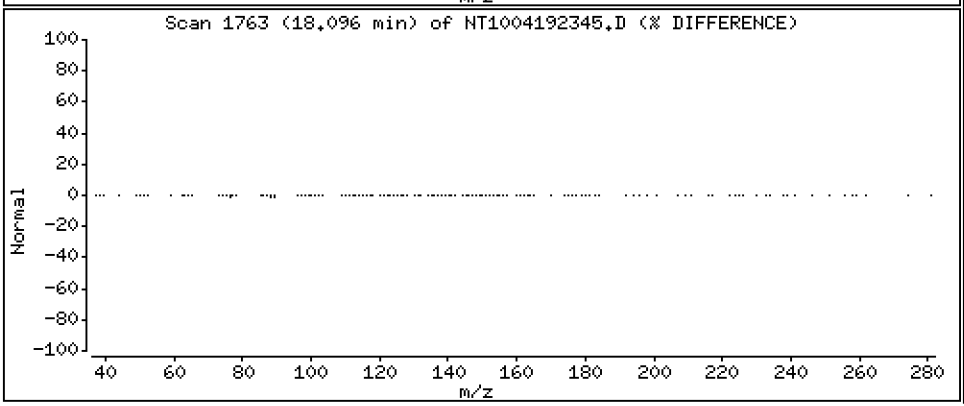
61 Anthracene

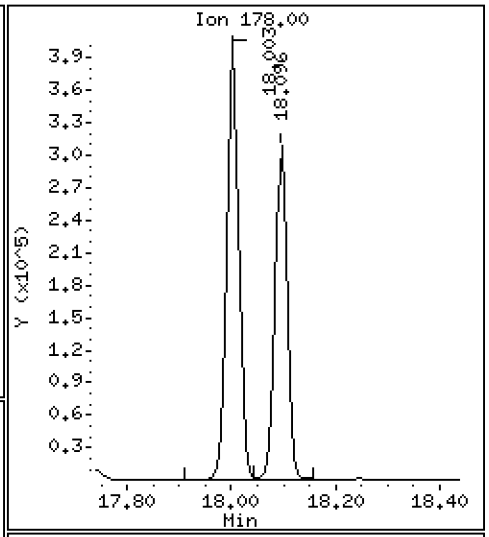
Concentration: 3.133 ug/mL

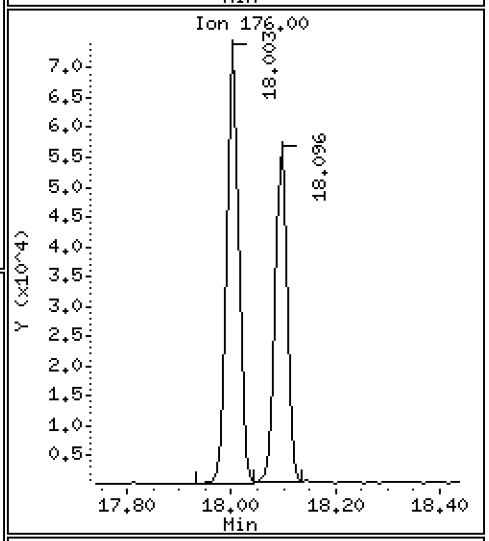


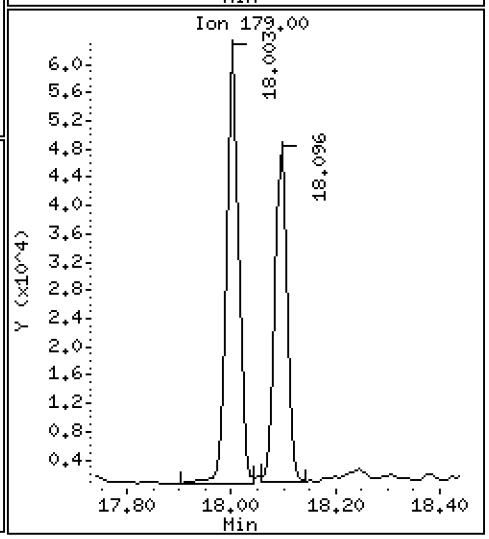












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

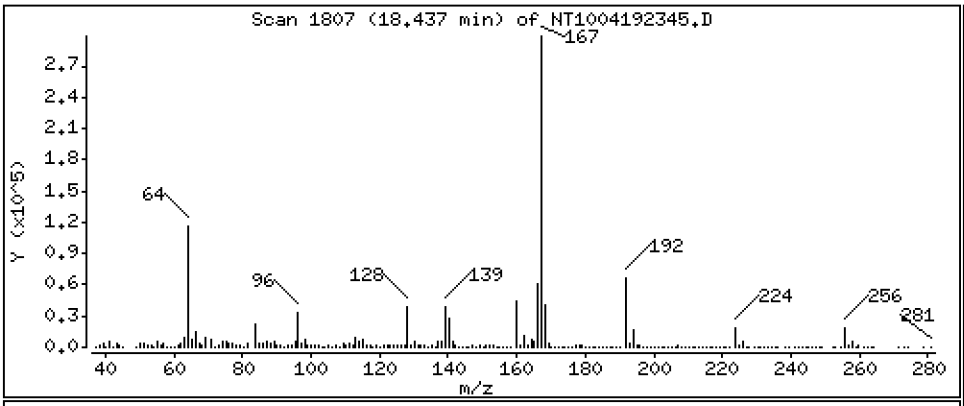
Operator: VTS

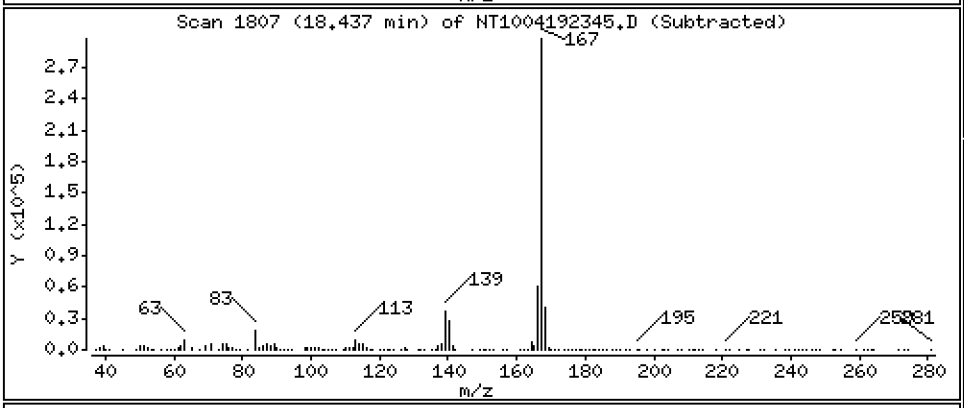
Column phase: ZB-5msi

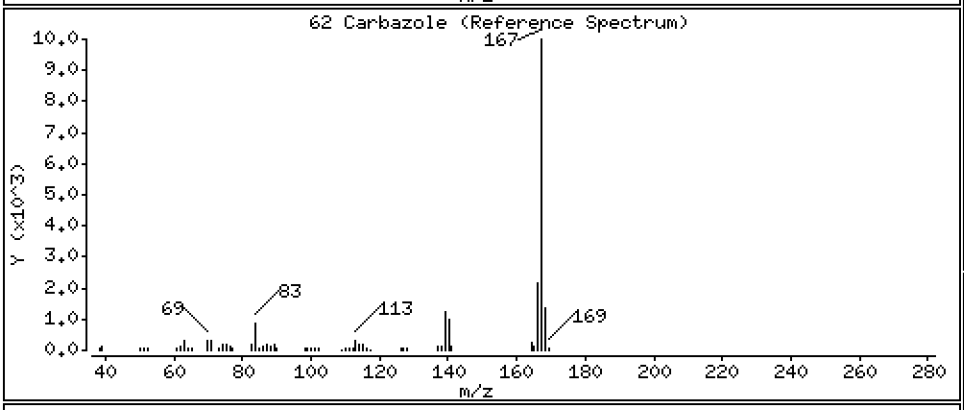
Column diameter: 0.25

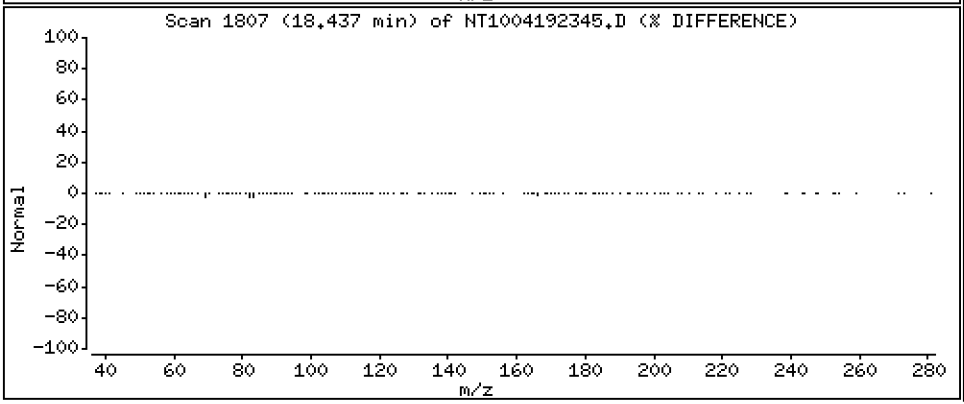
62 Carbazole

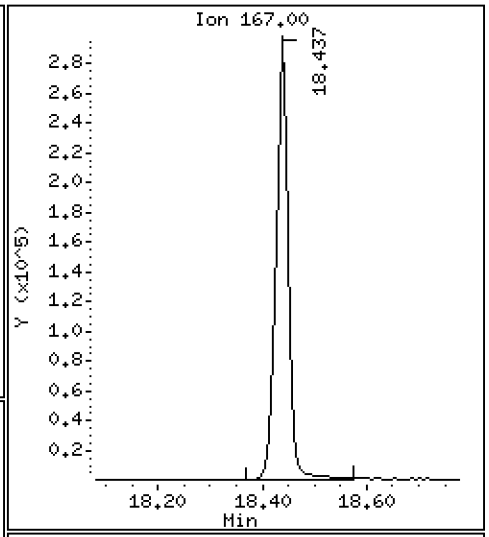
Concentration: 3.511 ug/mL

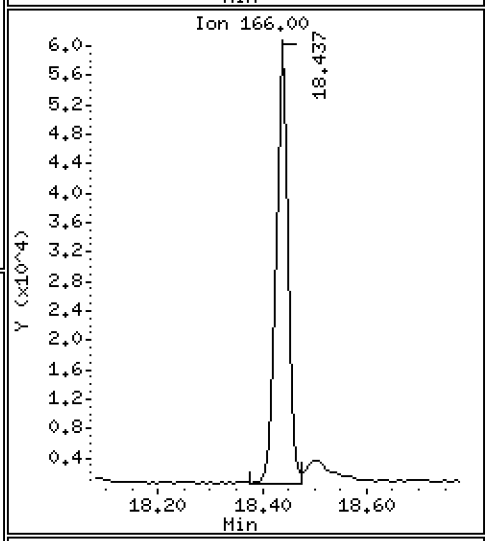


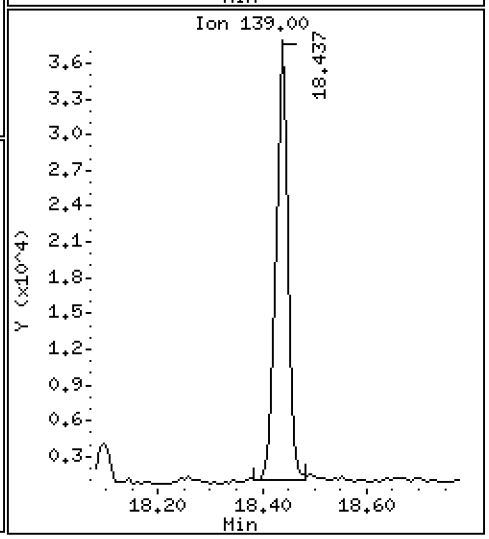












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192345.D

Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

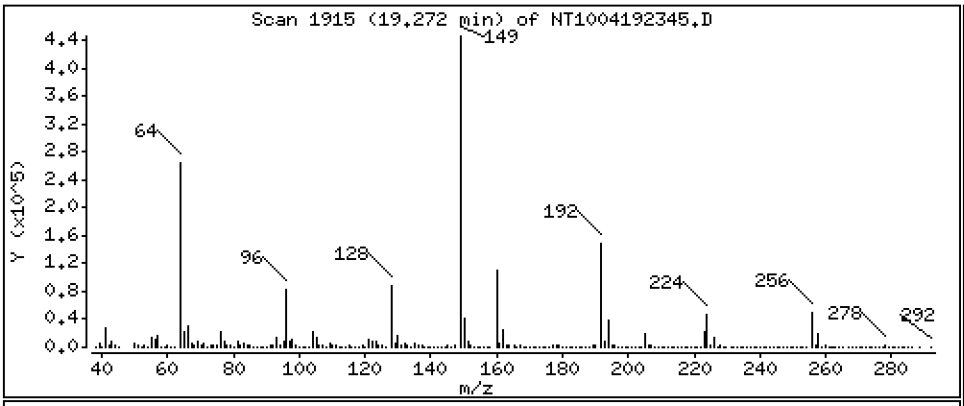
Operator: VTS

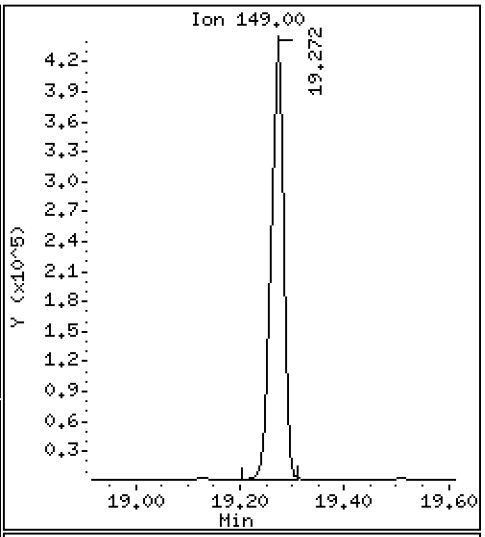
Column phase: ZB-5msi

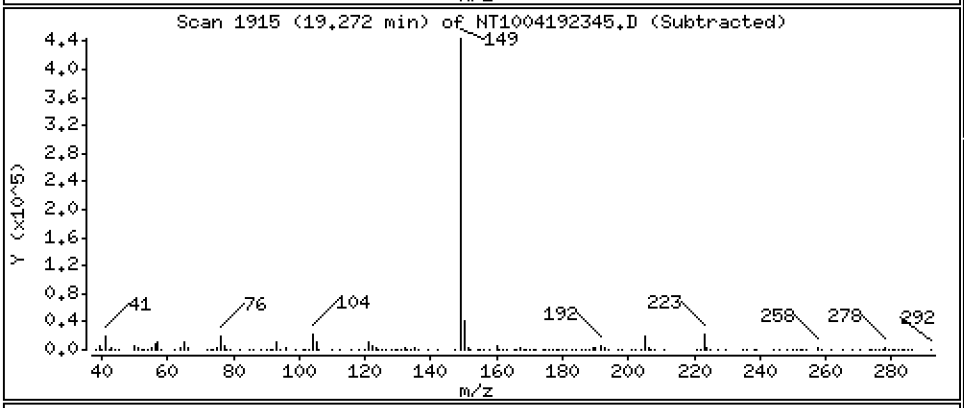
Column diameter: 0.25

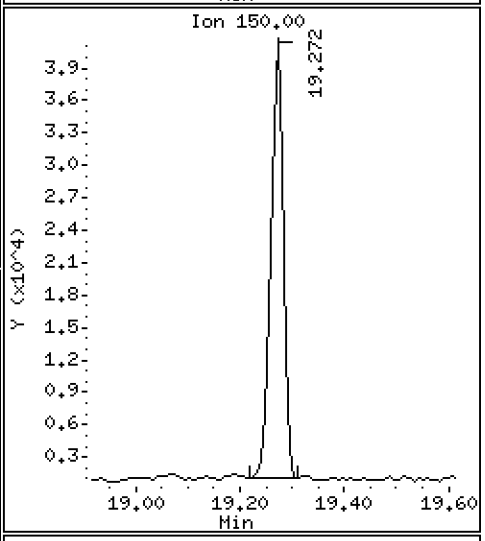
63 Di-n-butylphthalate

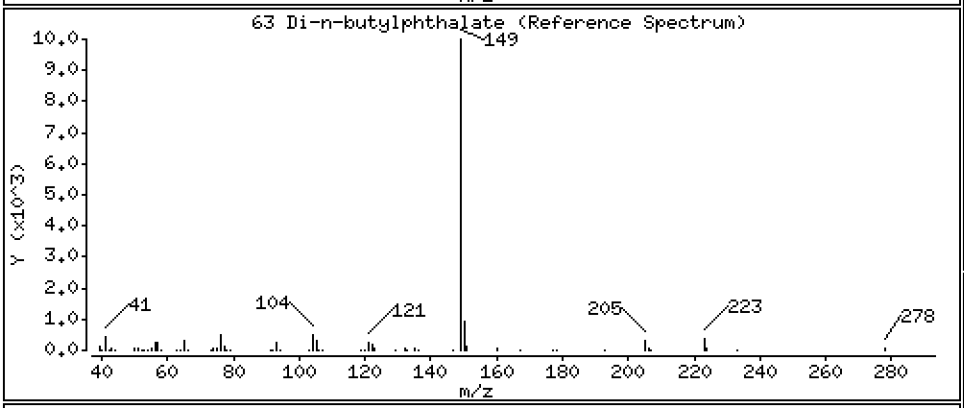
Concentration: 3.975 ug/mL

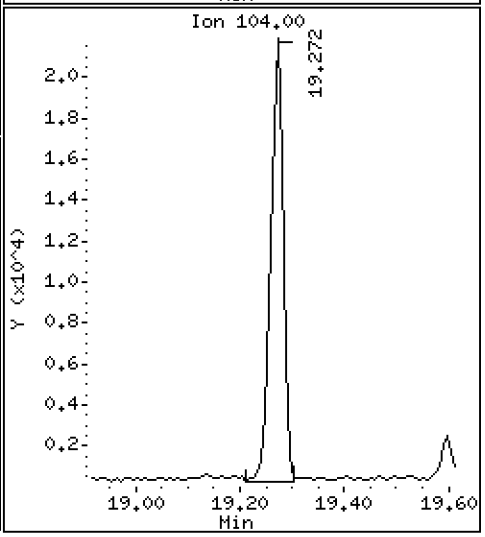


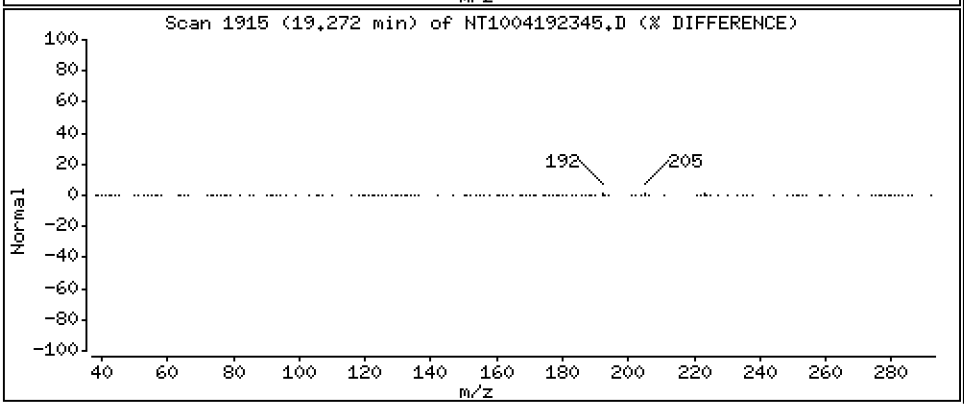












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

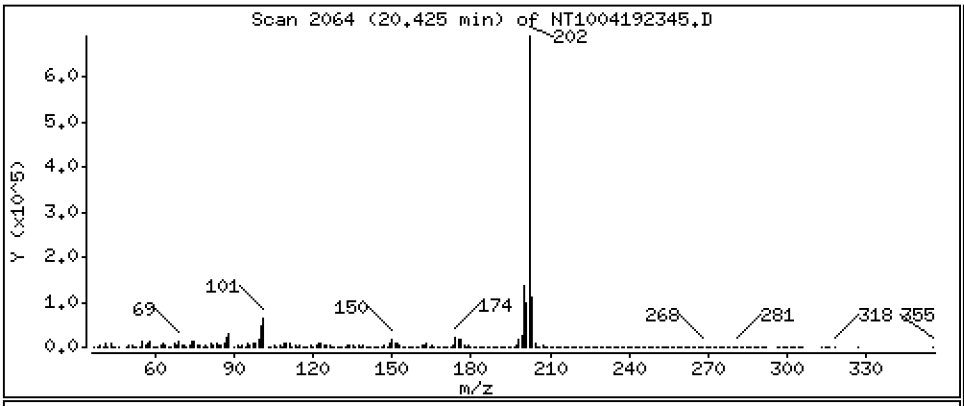
Operator: VTS

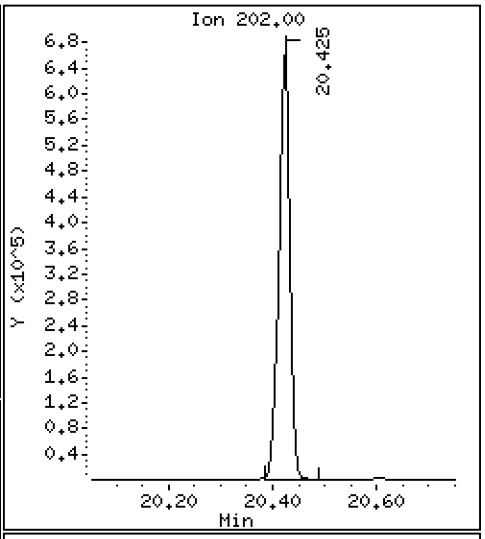
Column phase: ZB-5msi

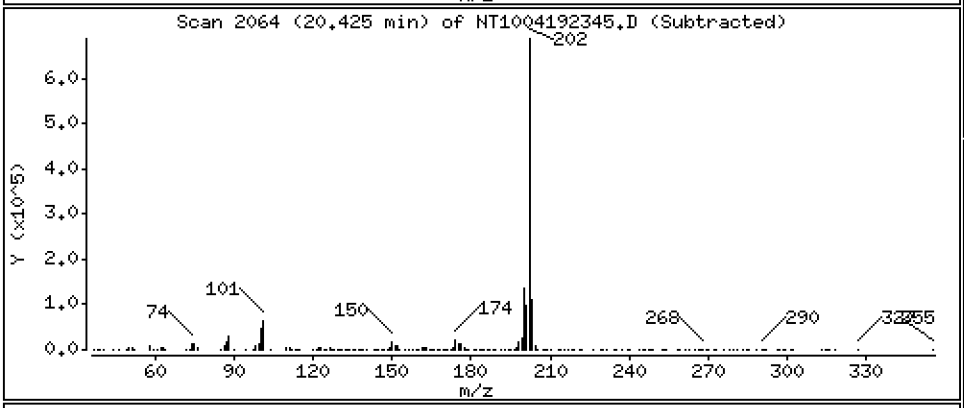
Column diameter: 0.25

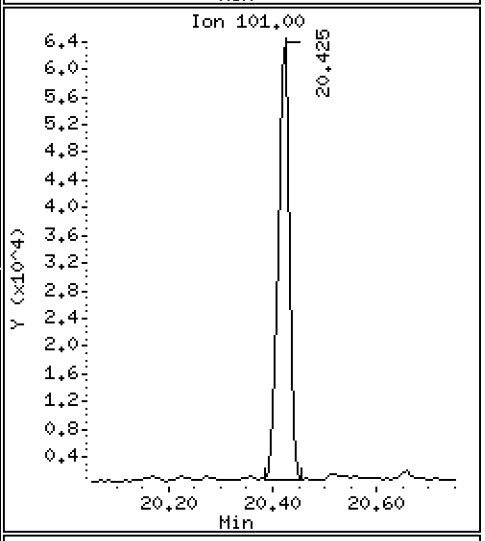
64 Fluoranthene

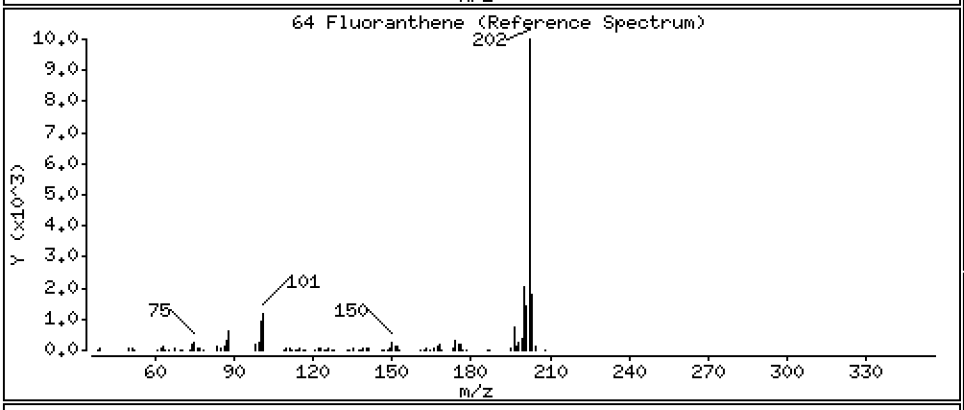
Concentration: 4.197 ug/mL

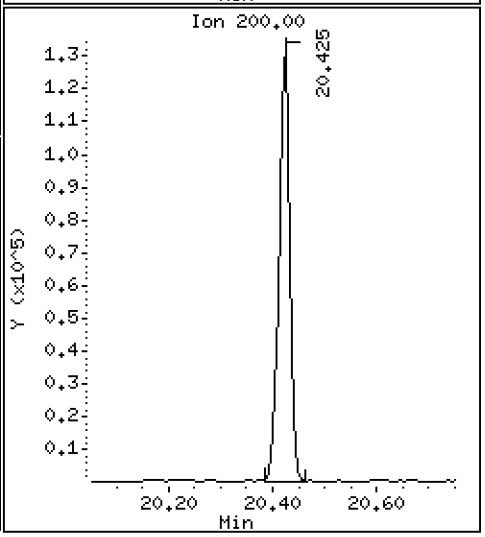


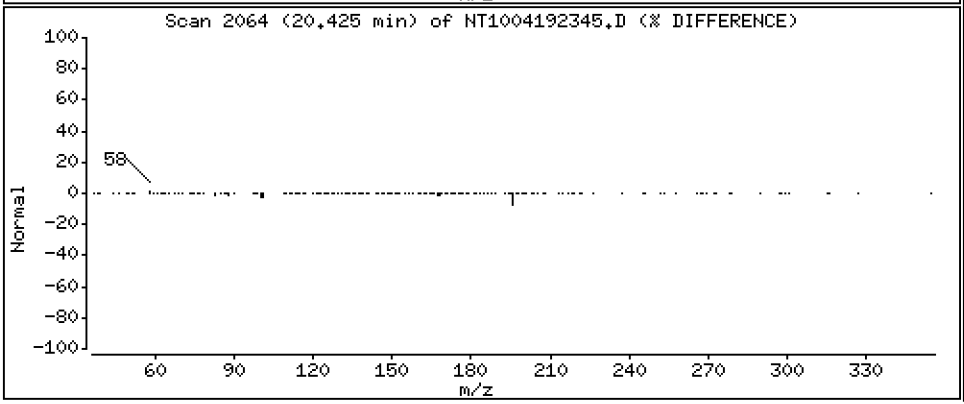












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

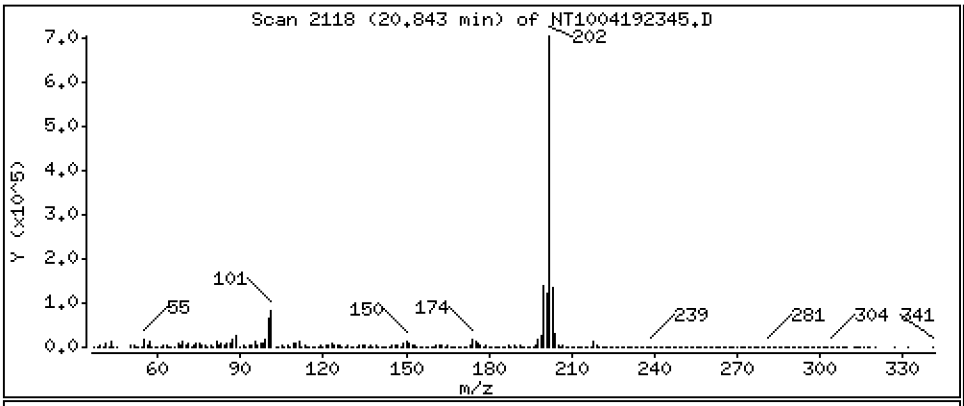
Operator: VTS

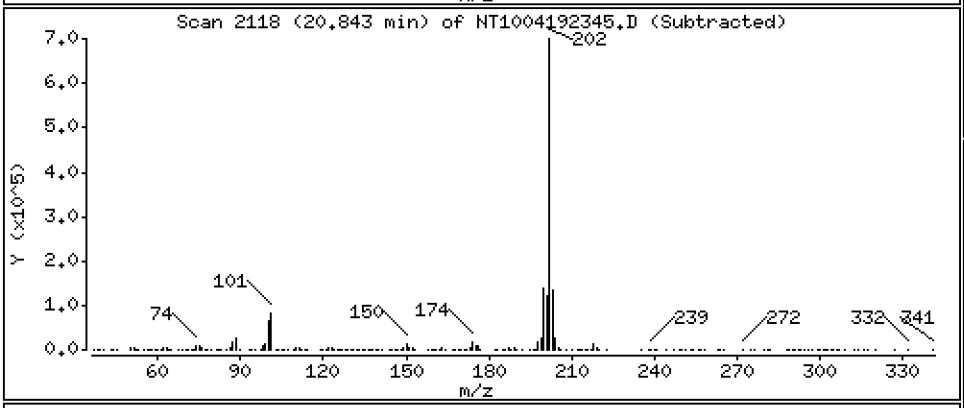
Column phase: ZB-5msi

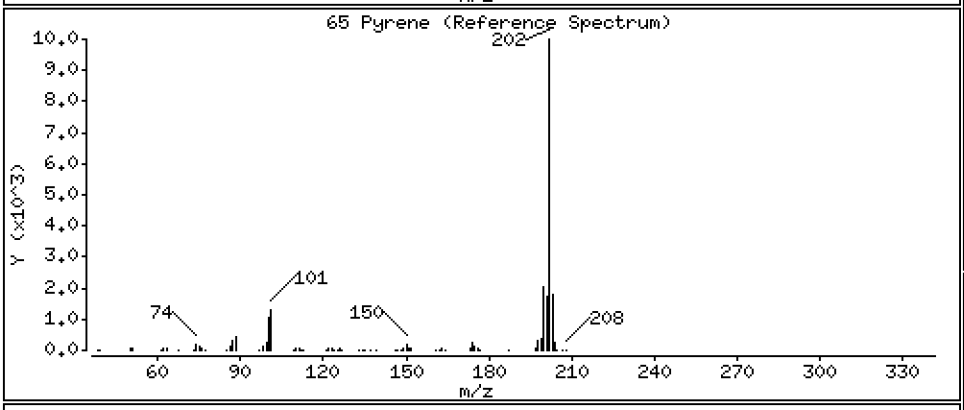
Column diameter: 0.25

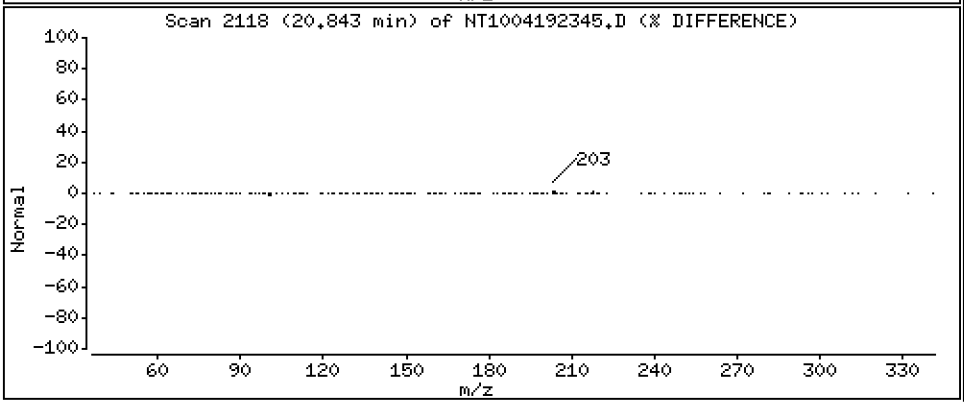
65 Pyrene

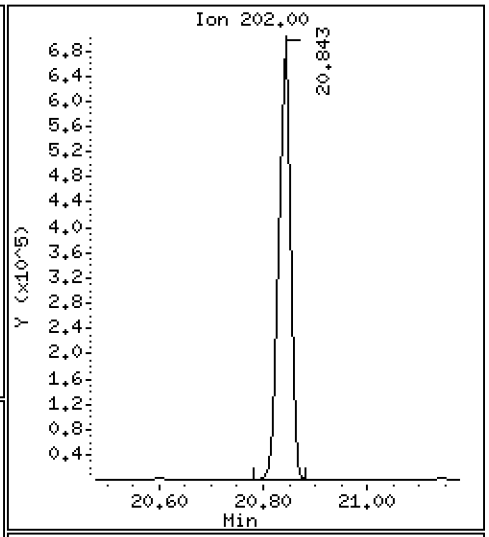
Concentration: 4.366 ug/mL

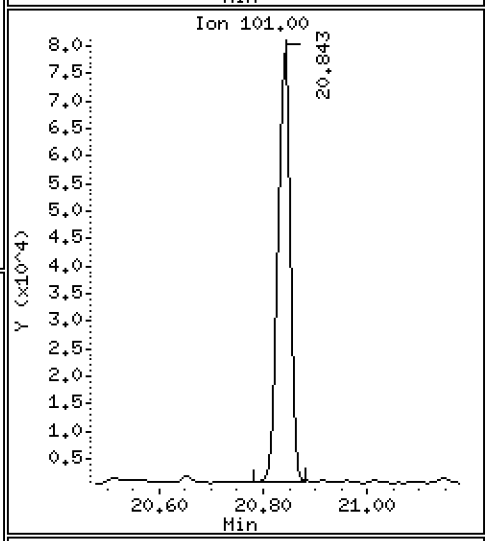


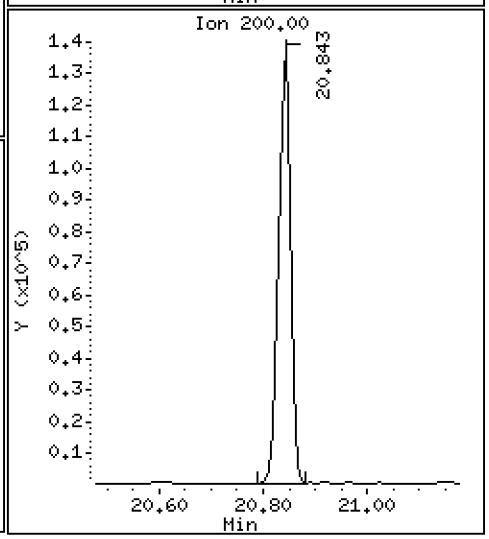












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

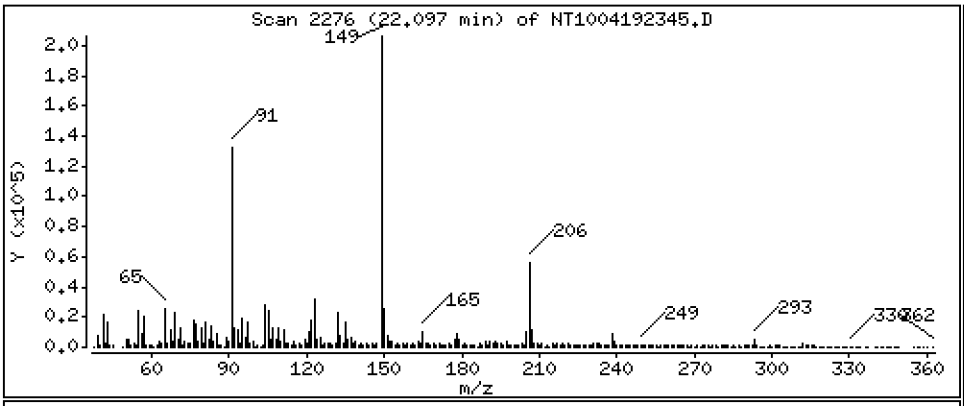
Operator: VTS

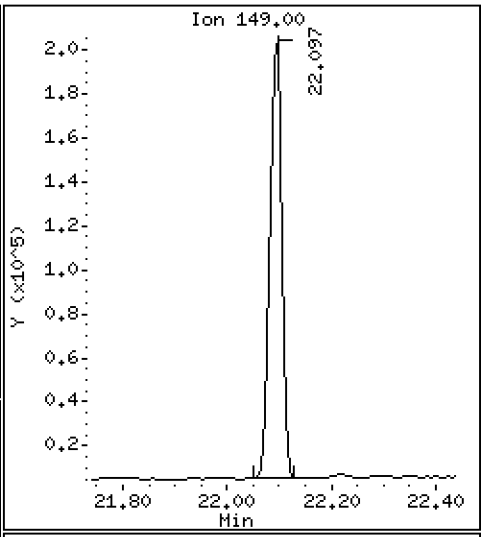
Column phase: ZB-5msi

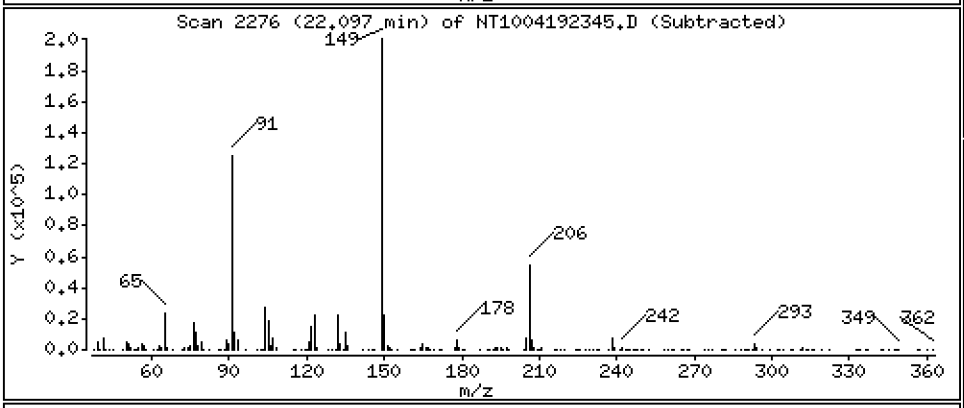
Column diameter: 0.25

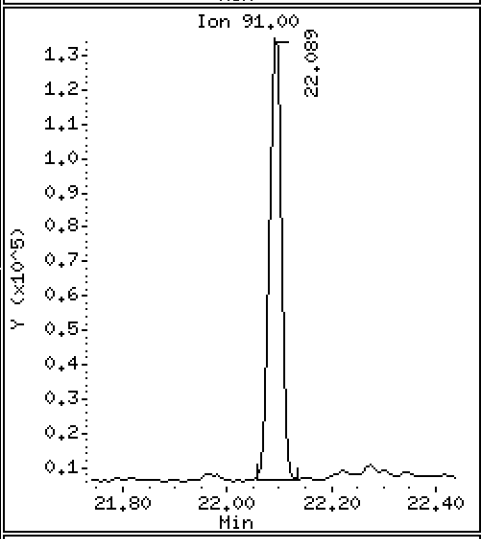
67 Butylbenzylphthalate

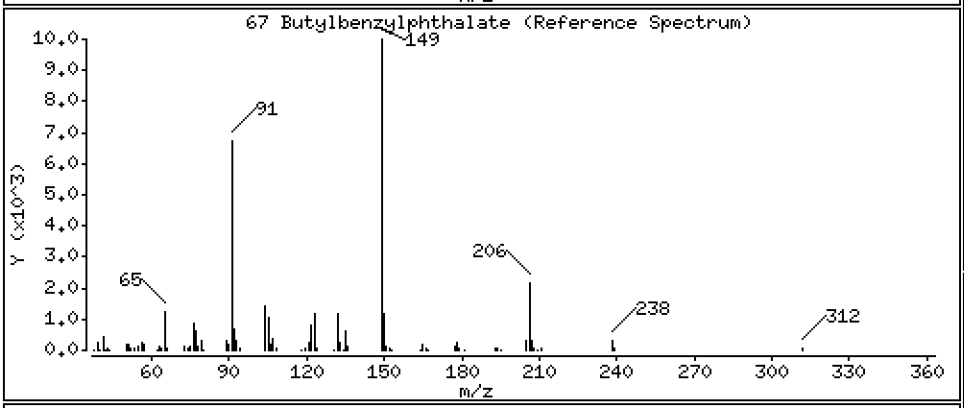
Concentration: 3.490 ug/mL

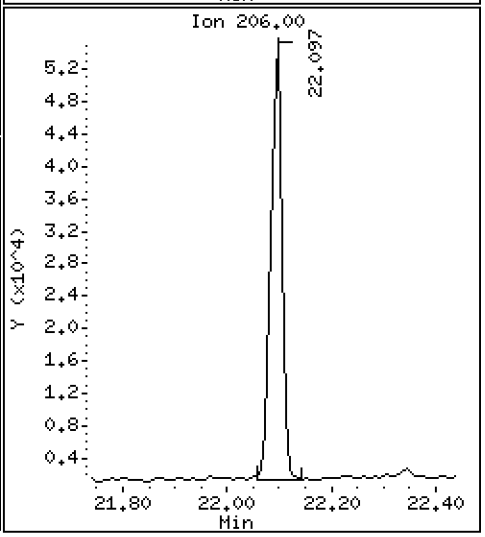


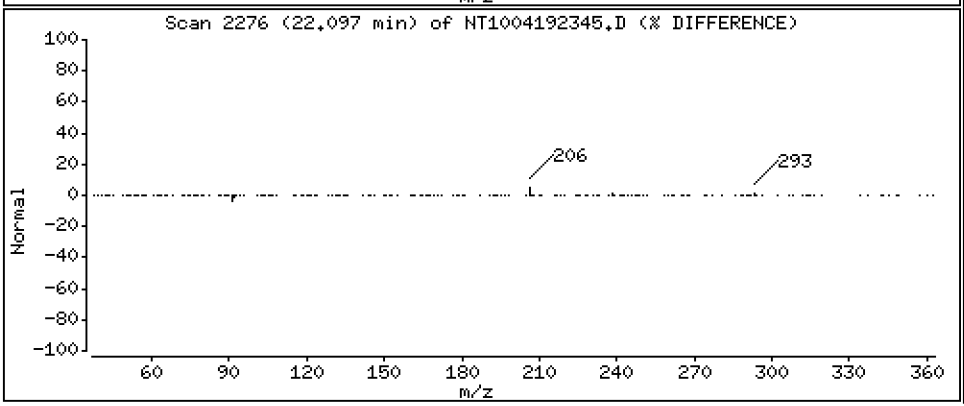












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

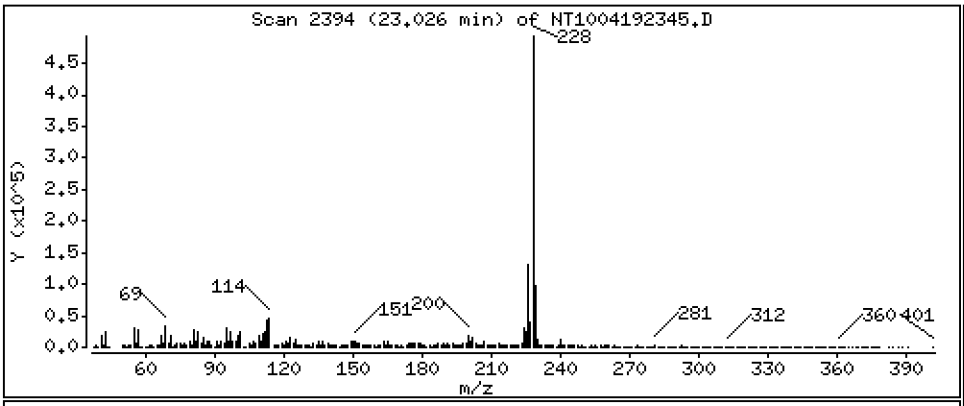
Operator: VTS

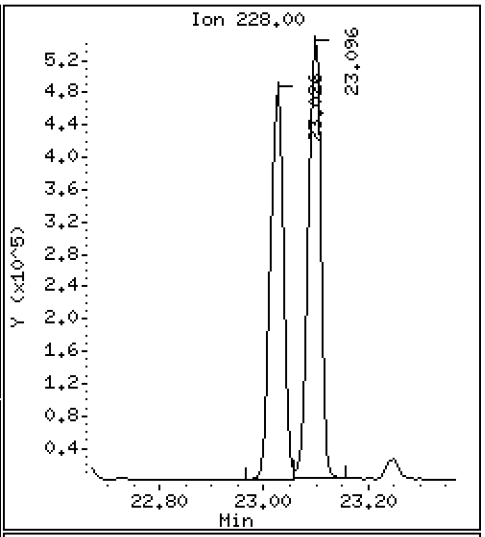
Column phase: ZB-5msi

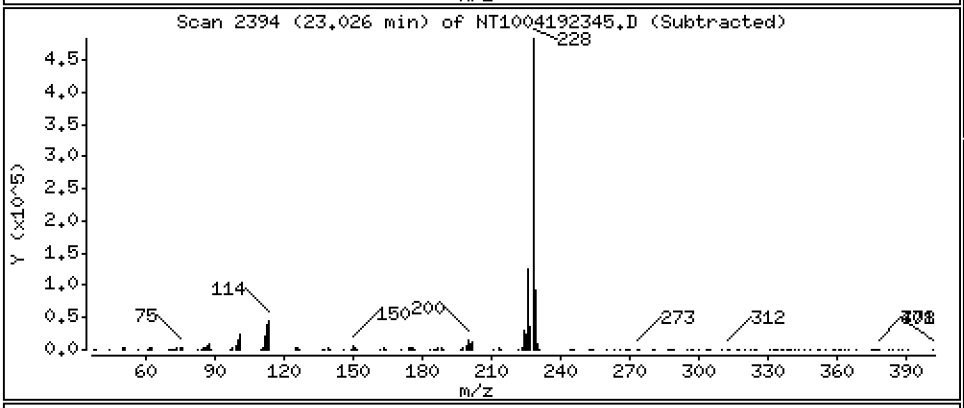
Column diameter: 0.25

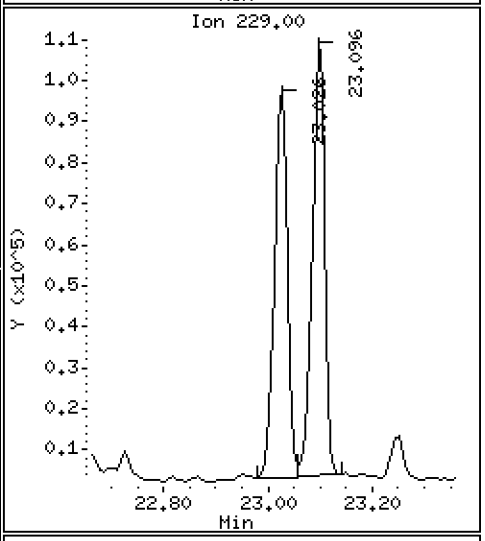
68 Benzo(a)anthracene

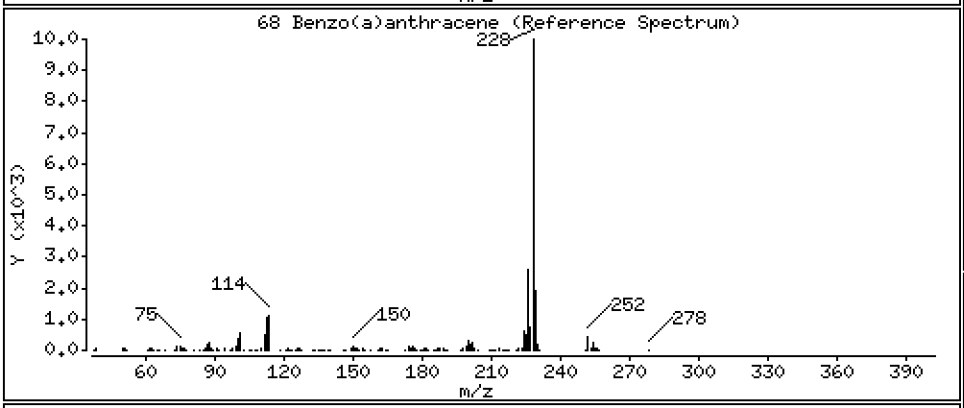
Concentration: 4.015 ug/mL

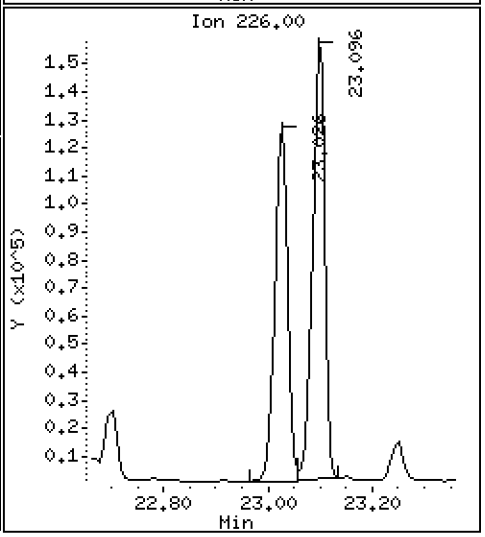


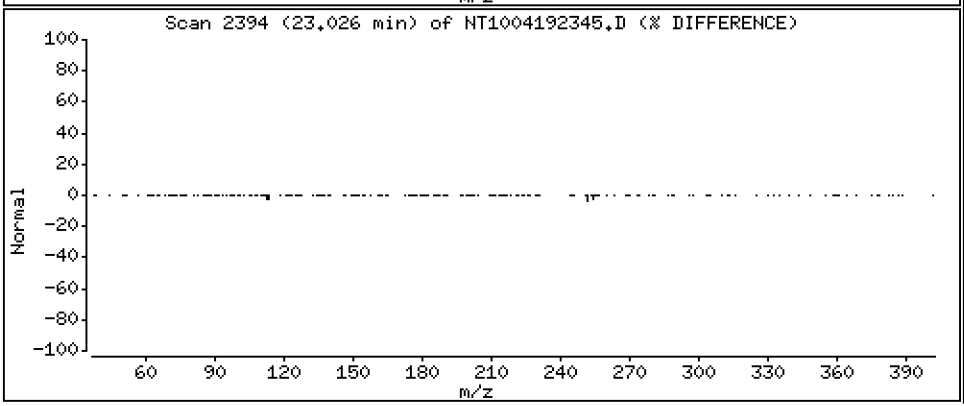












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

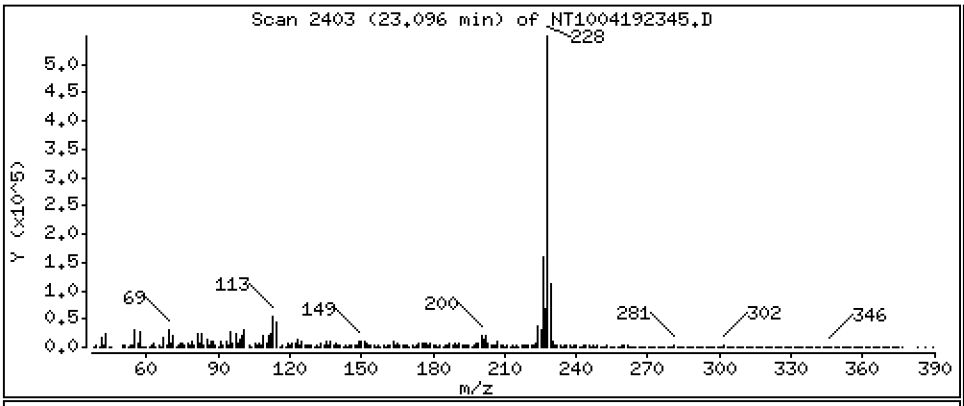
Operator: VTS

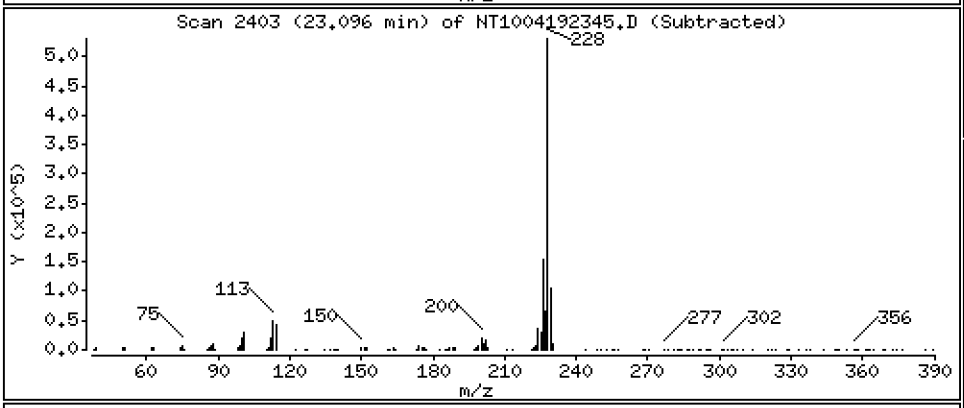
Column phase: ZB-5msi

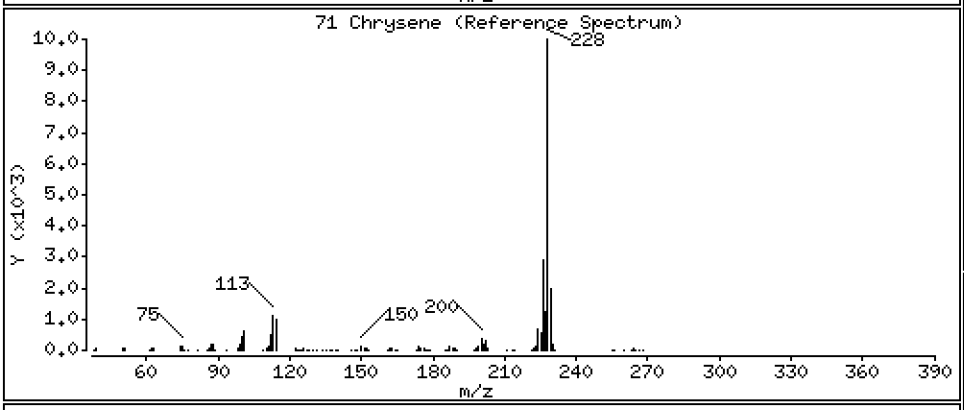
Column diameter: 0.25

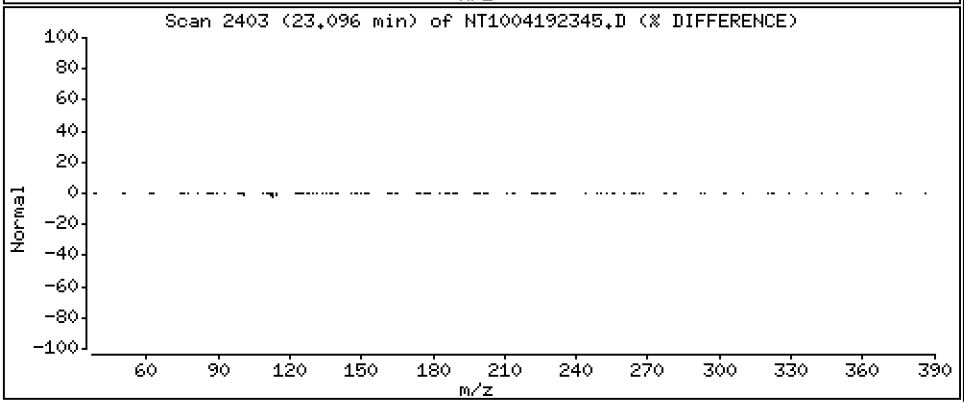
71 Chrysene

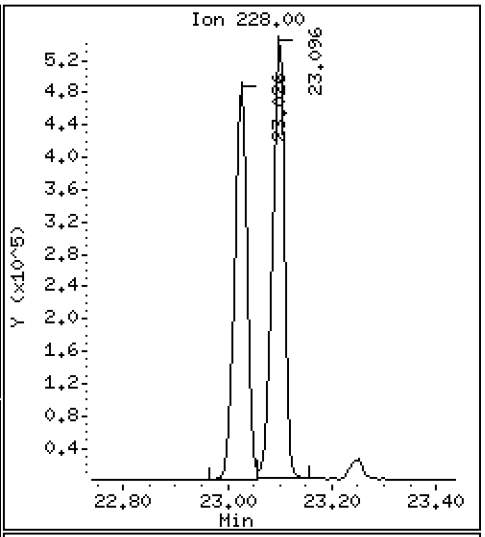
Concentration: 4.307 ug/mL

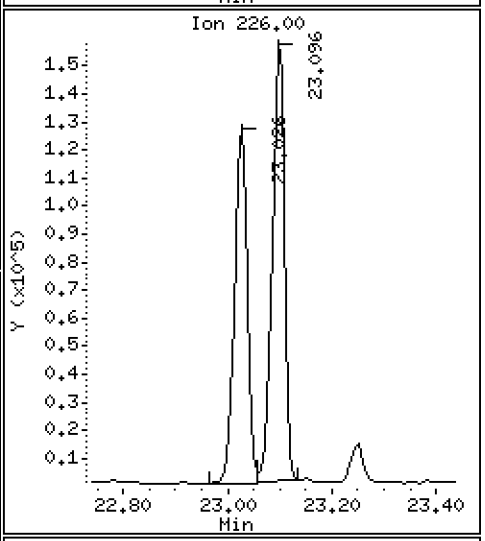


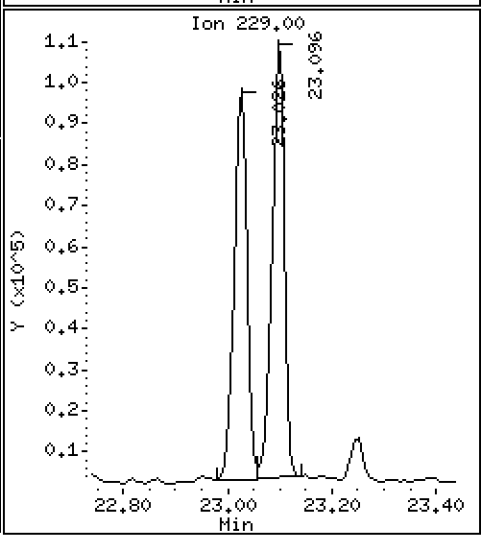












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

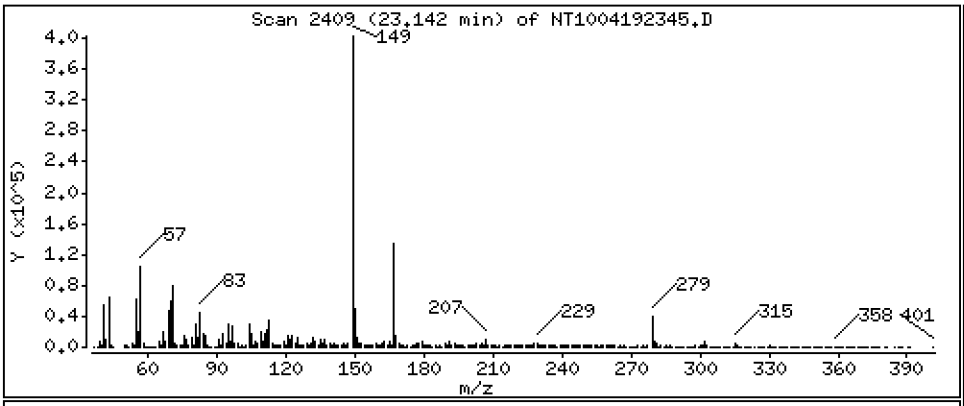
Operator: VTS

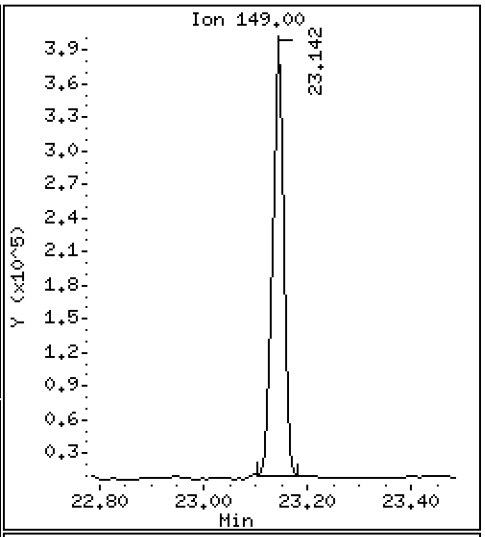
Column phase: ZB-5msi

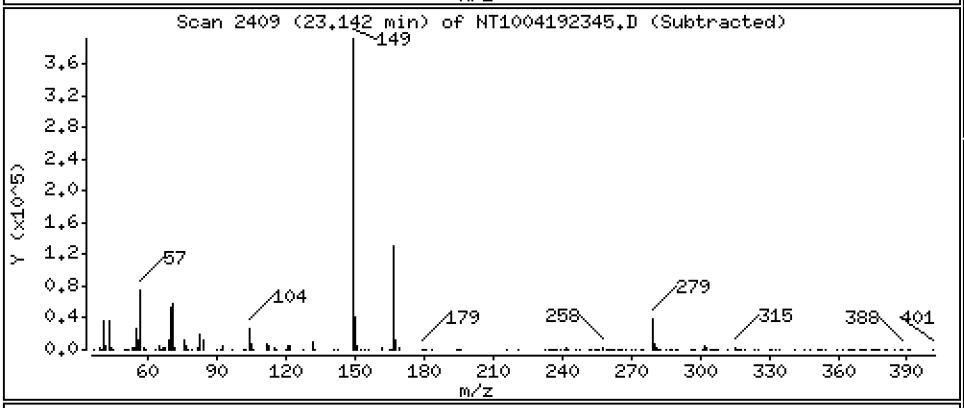
Column diameter: 0.25

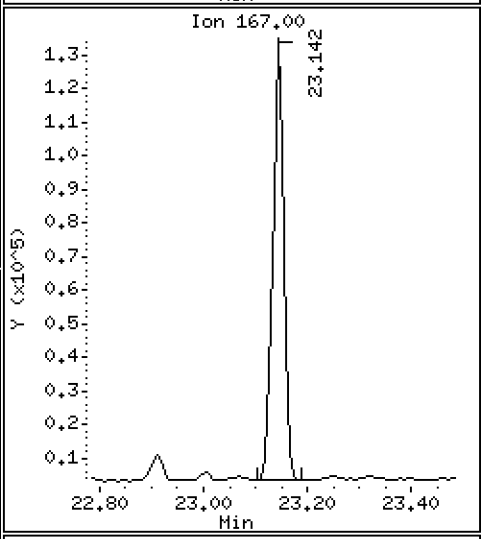
72 bis(2-Ethylhexyl)phthalate

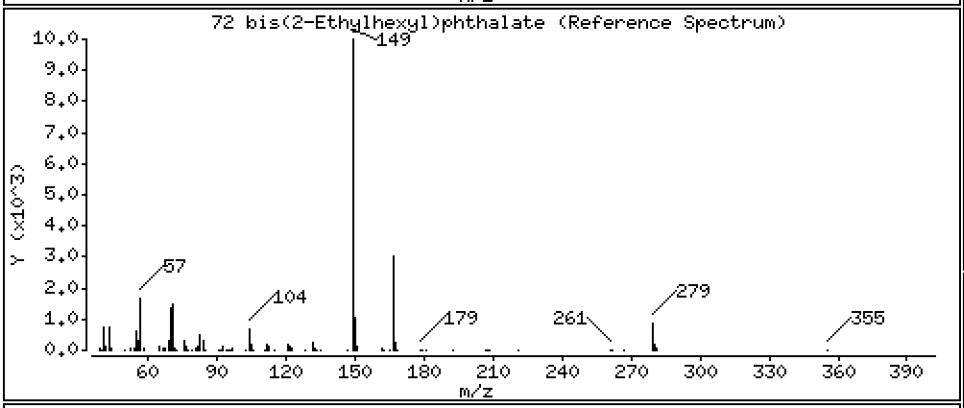
Concentration: 4.309 ug/mL

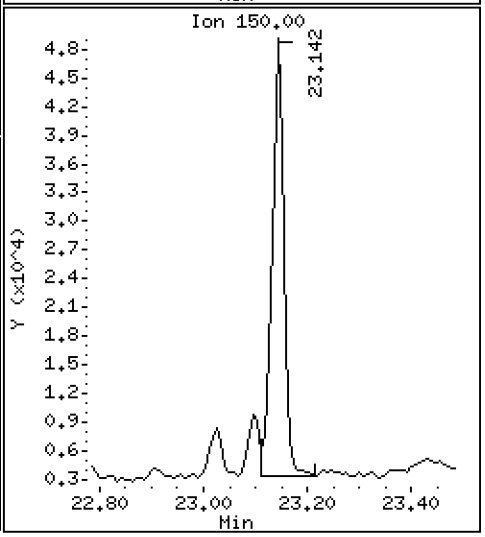


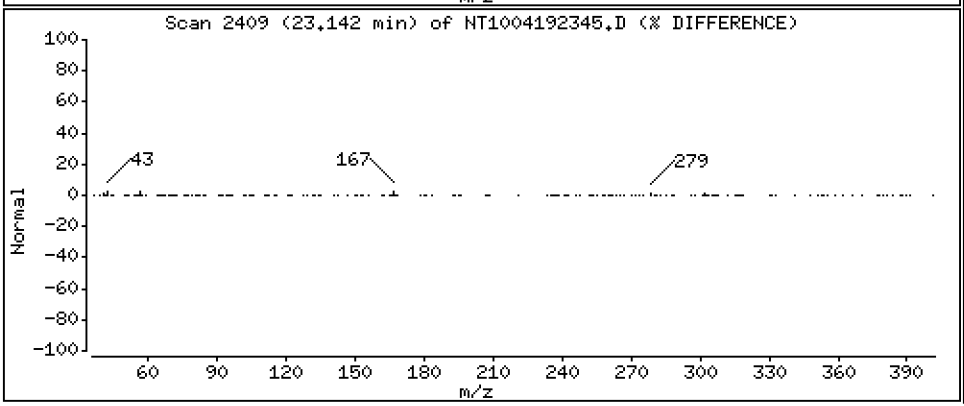












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

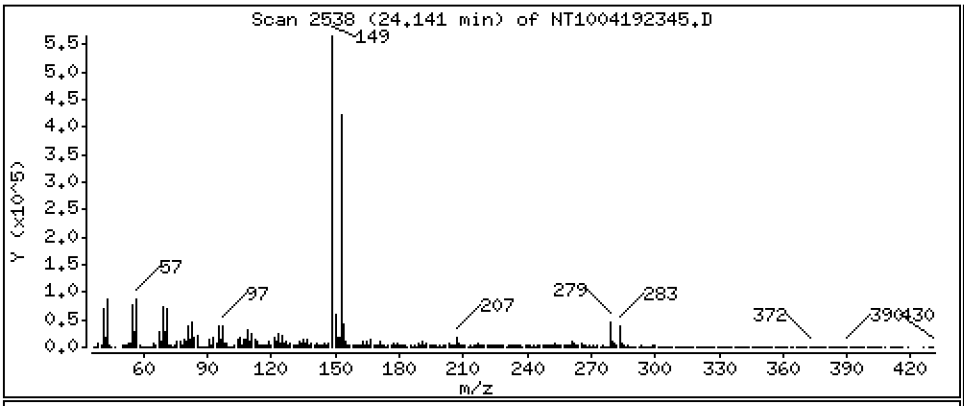
Operator: VTS

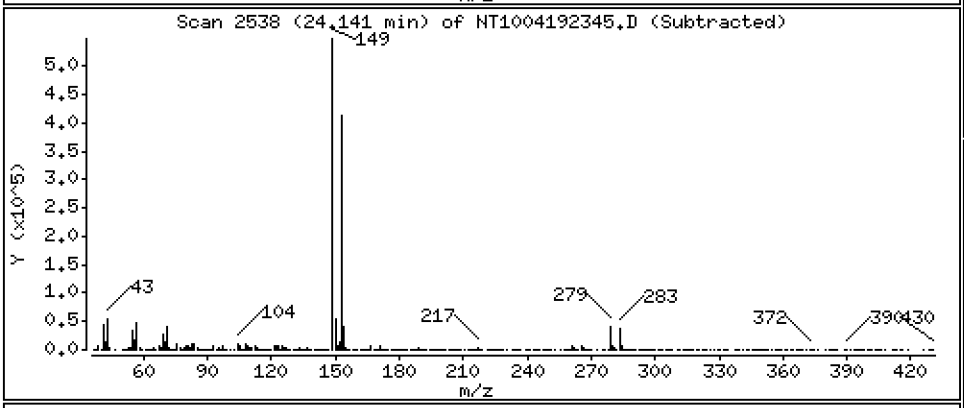
Column phase: ZB-5msi

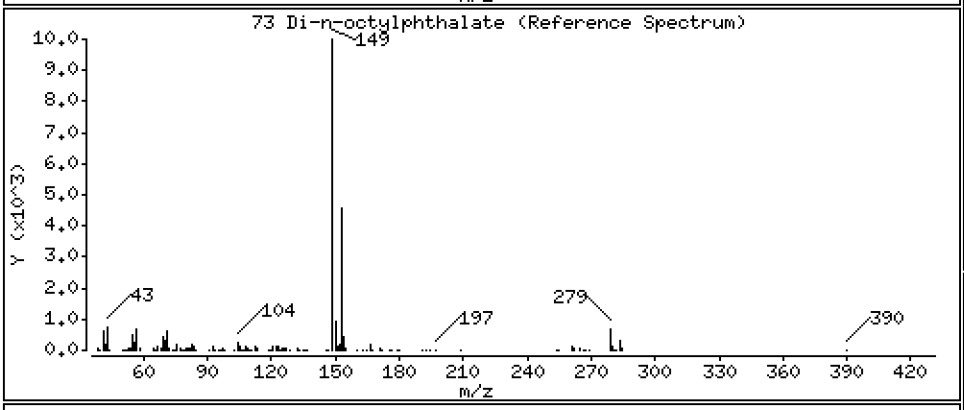
Column diameter: 0.25

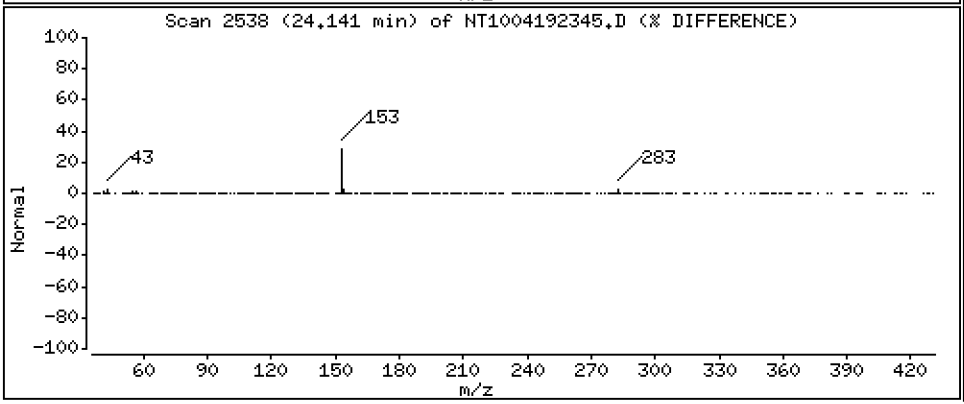
73 Di-n-octylphthalate

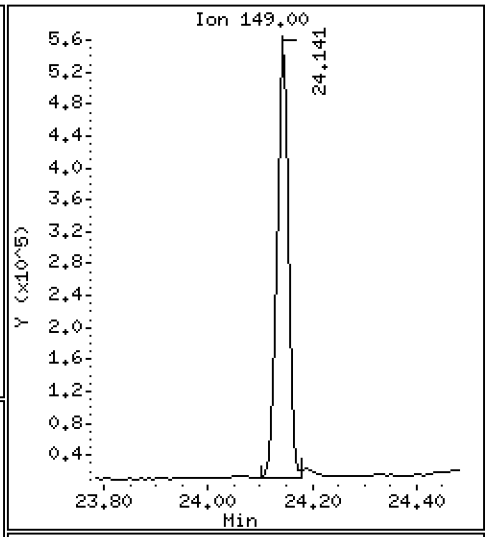
Concentration: 3.527 ug/mL

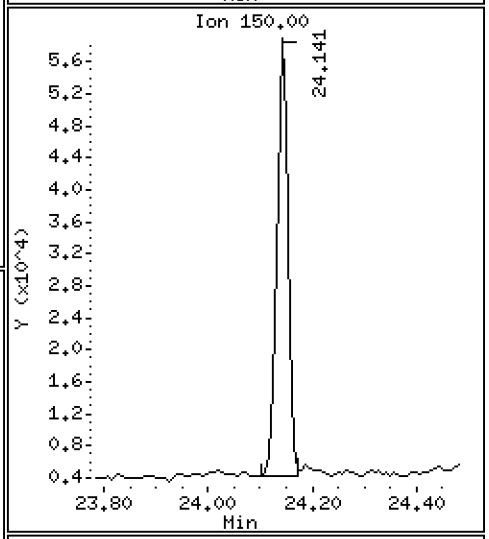


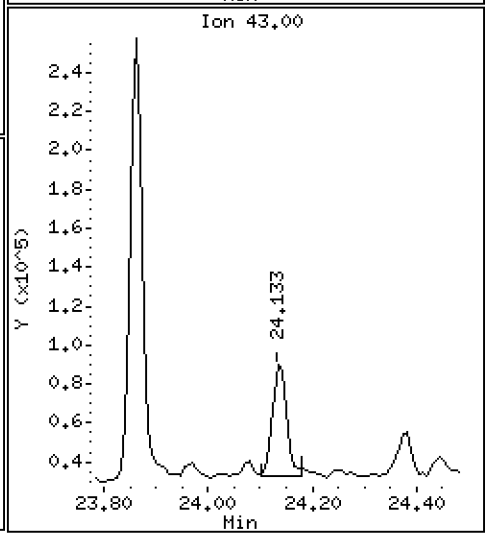












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

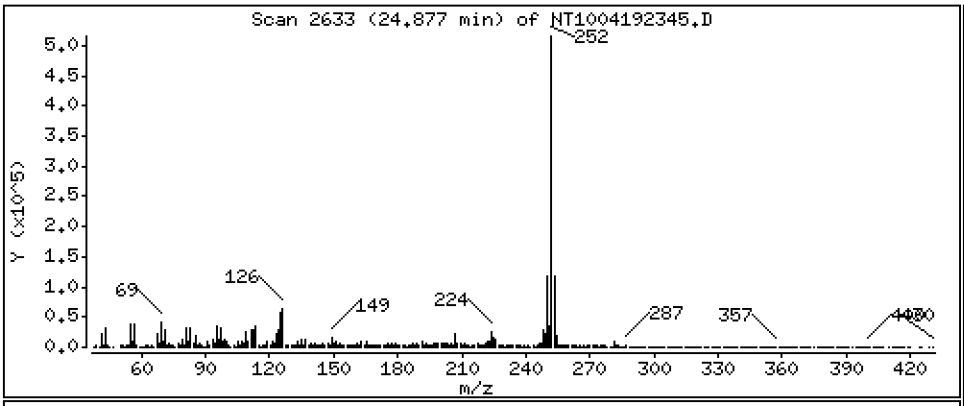
Operator: VTS

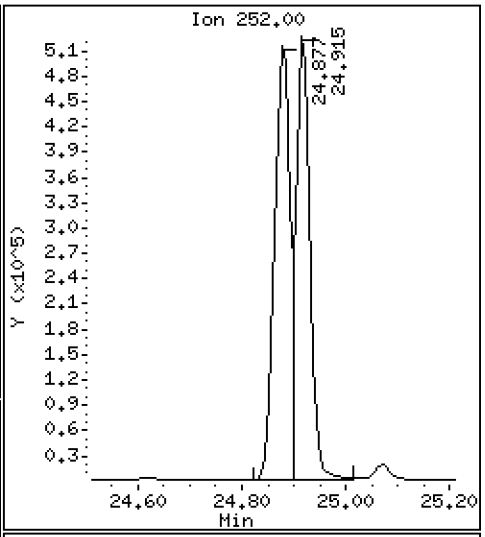
Column phase: ZB-5msi

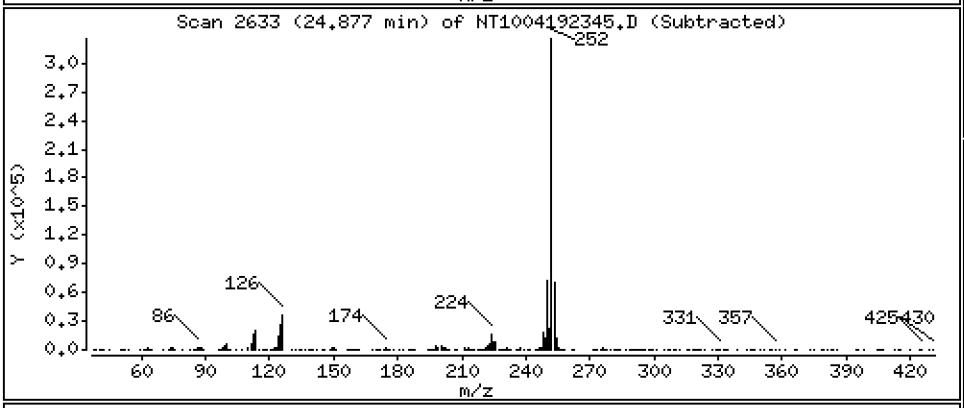
Column diameter: 0.25

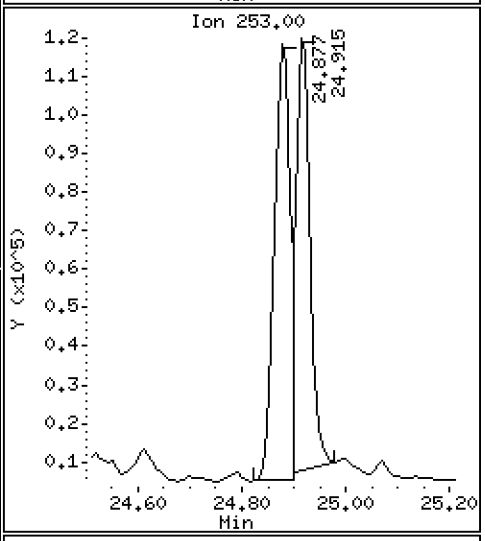
74 Benzo(b)fluoranthene

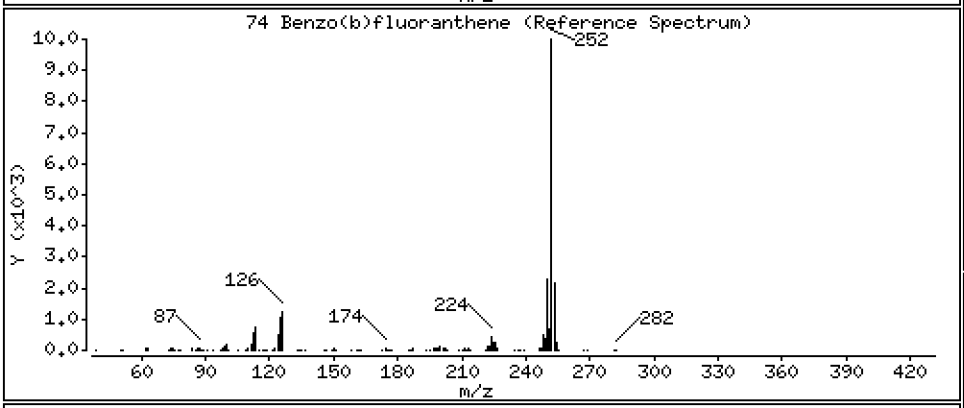
Concentration: 5.155 ug/mL

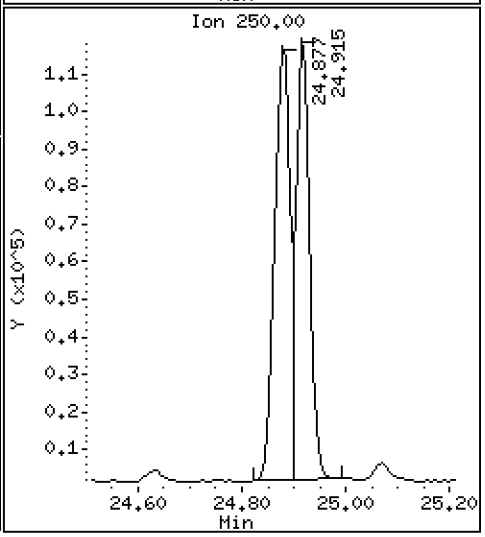


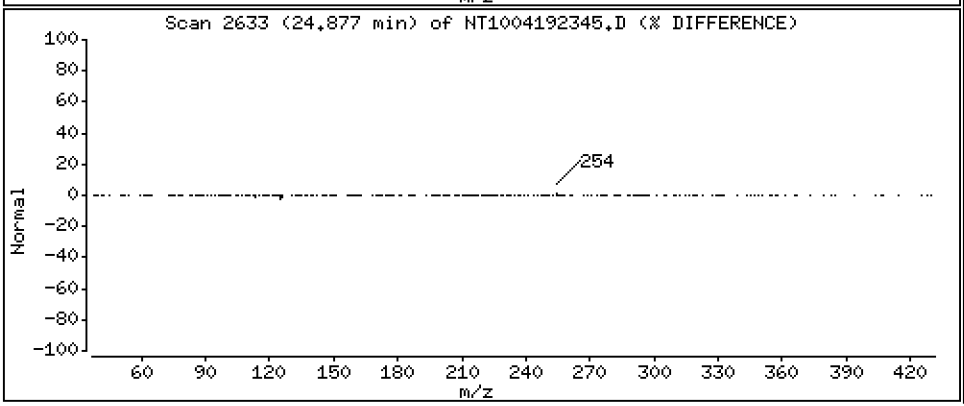












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

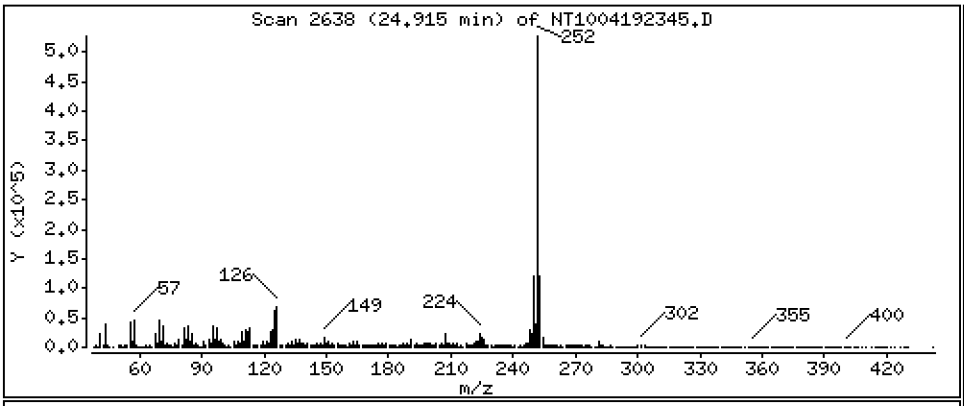
Operator: VTS

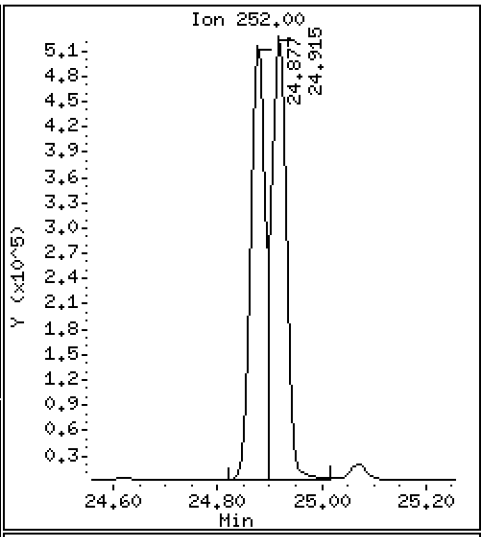
Column phase: ZB-5msi

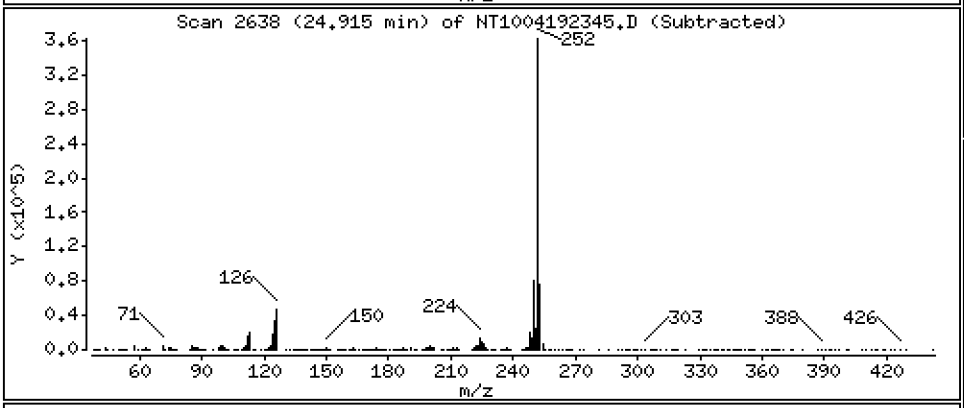
Column diameter: 0.25

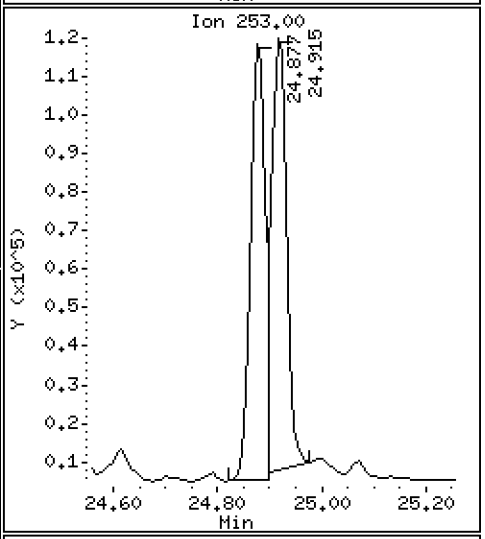
75 Benzo(k)fluoranthene

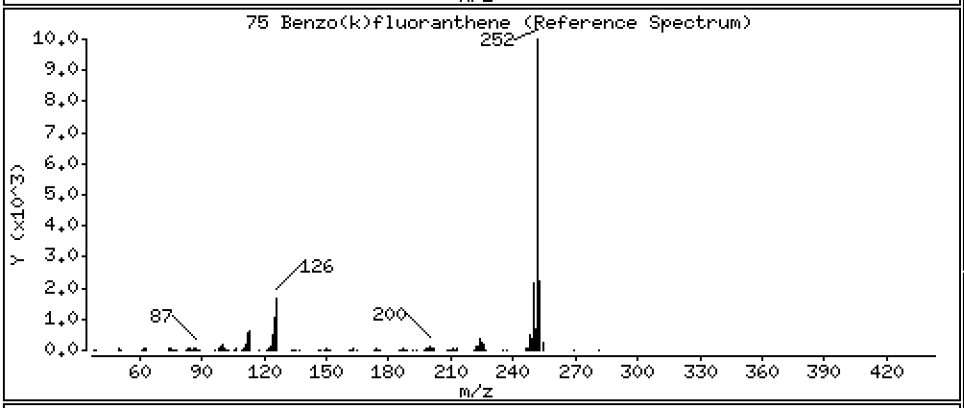
Concentration: 4.740 ug/mL

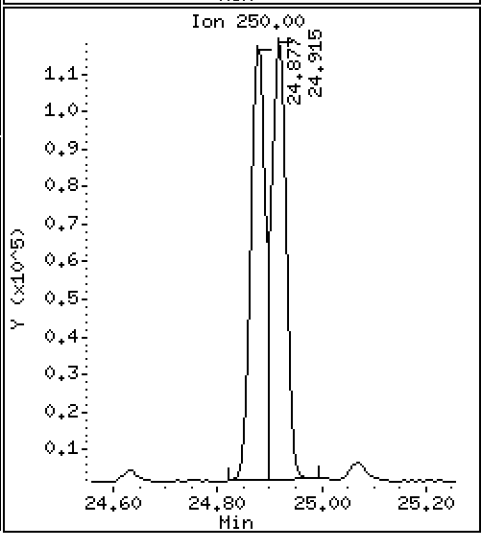


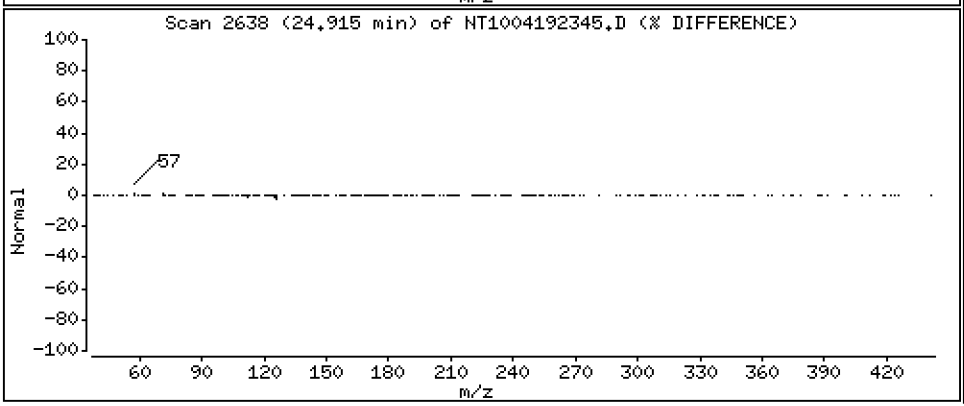












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

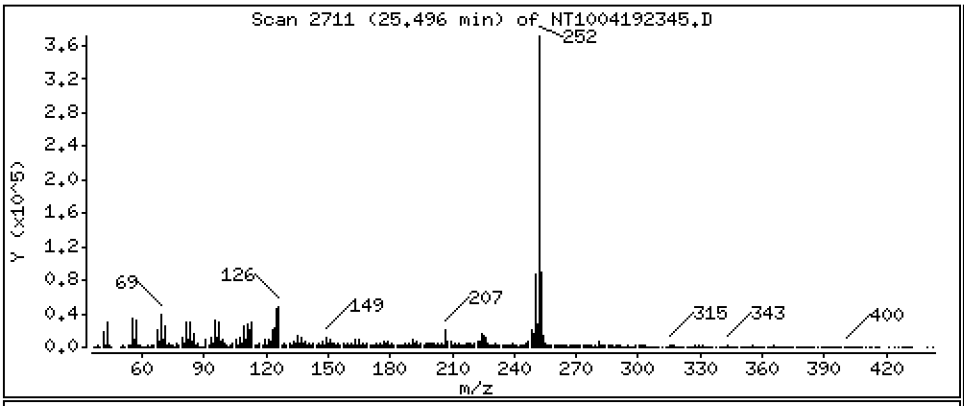
Operator: VTS

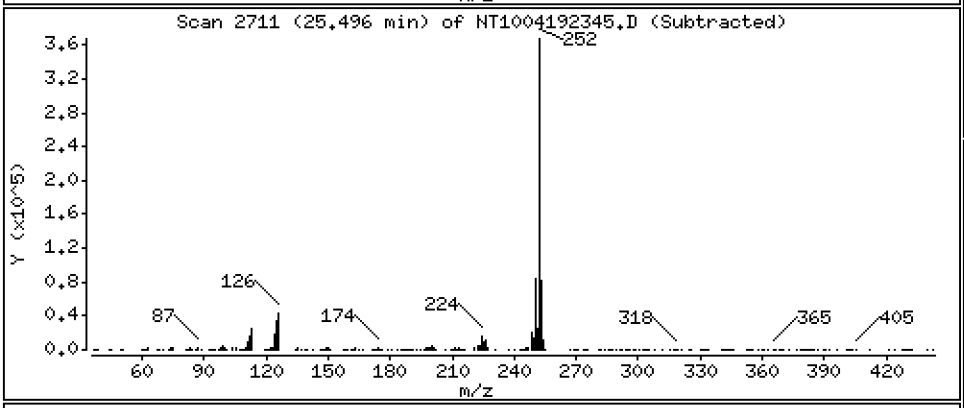
Column phase: ZB-5msi

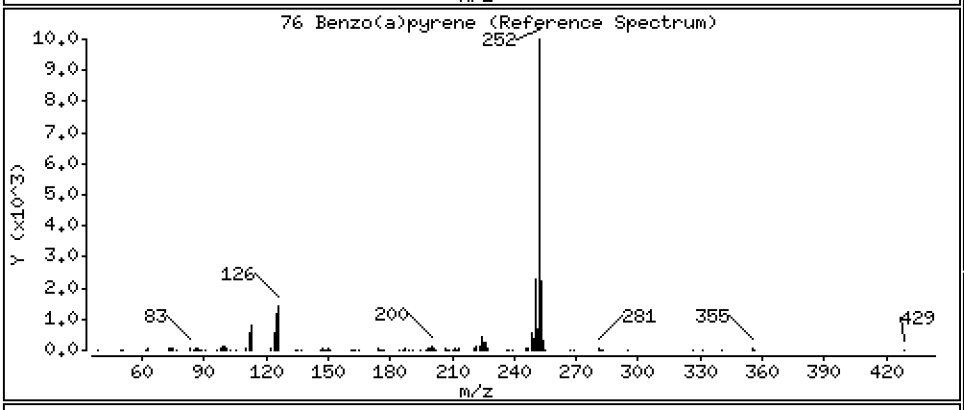
Column diameter: 0.25

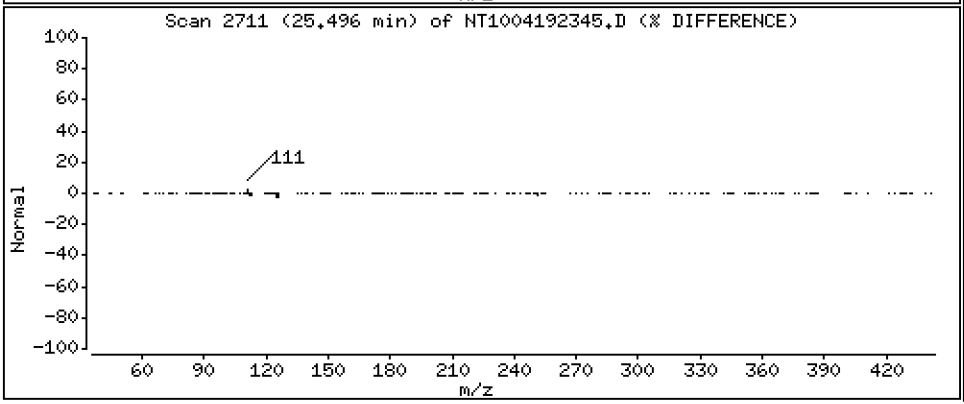
76 Benzo(a)pyrene

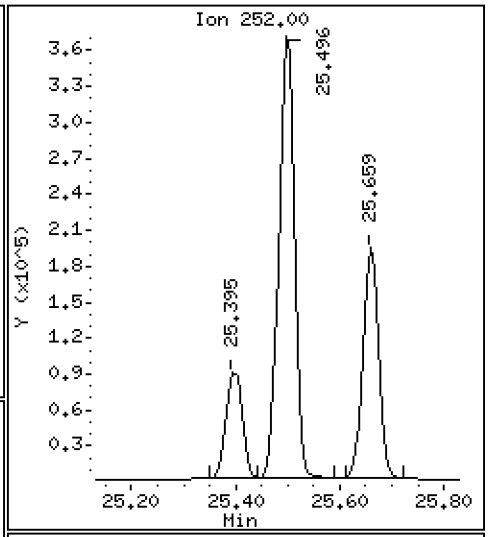
Concentration: 4.130 ug/mL

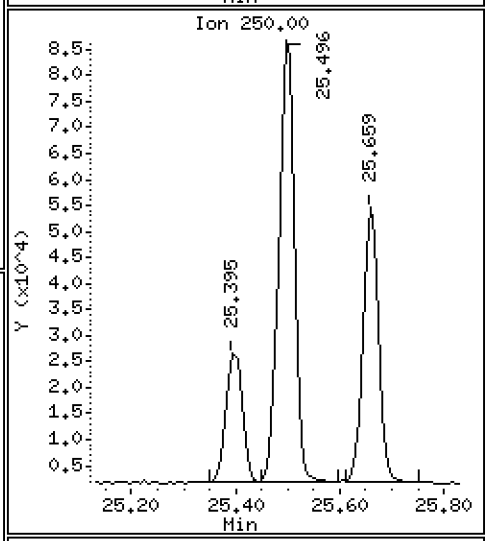


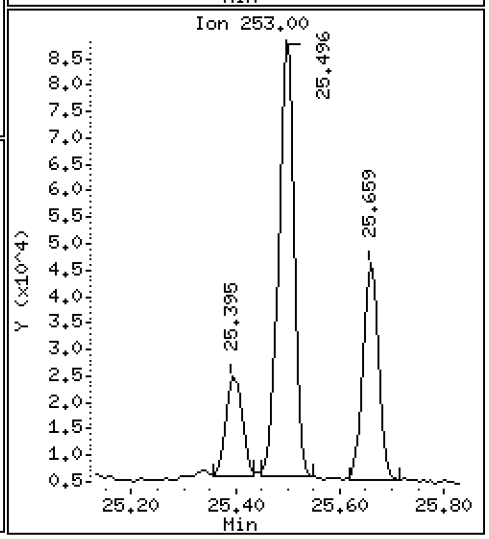












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

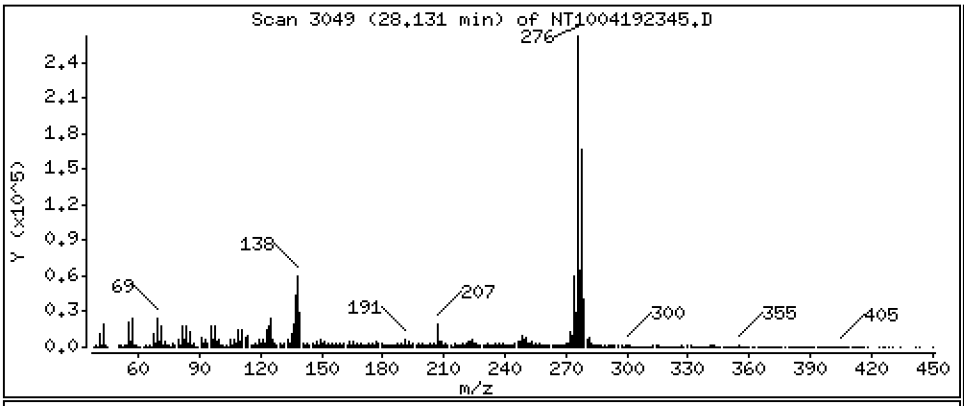
Operator: VTS

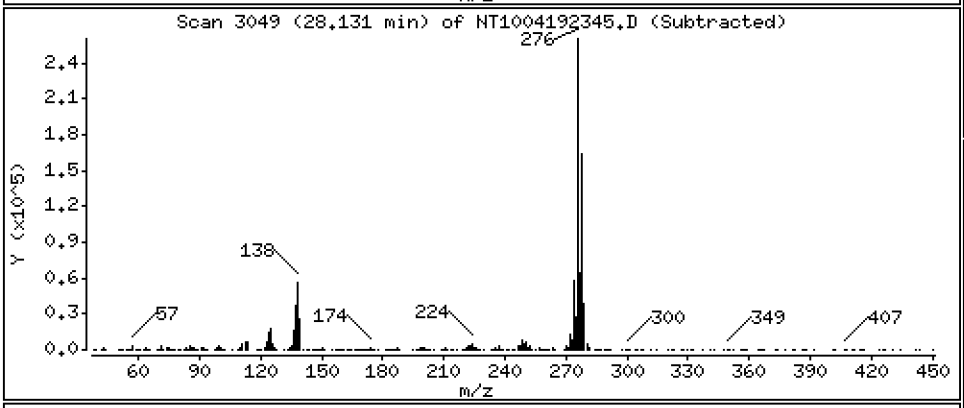
Column phase: ZB-5msi

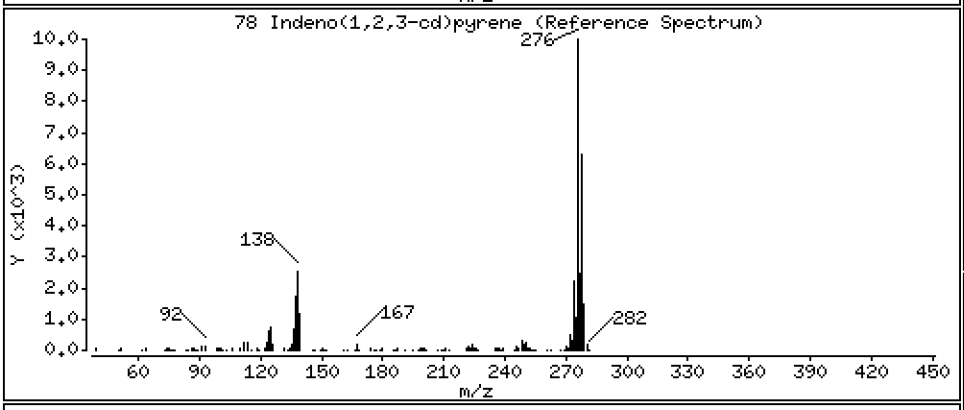
Column diameter: 0.25

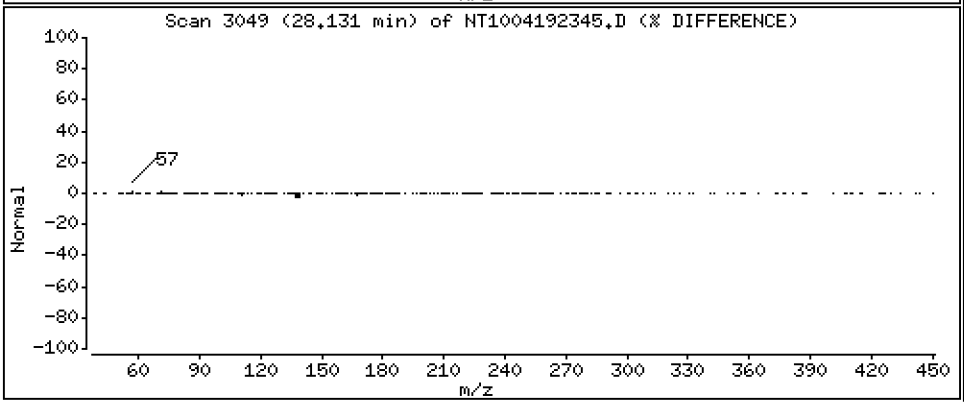
78 Indeno(1,2,3-cd)pyrene

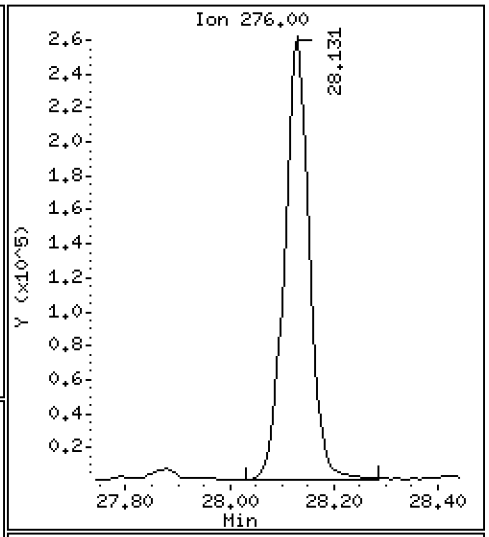
Concentration: 3.607 ug/mL

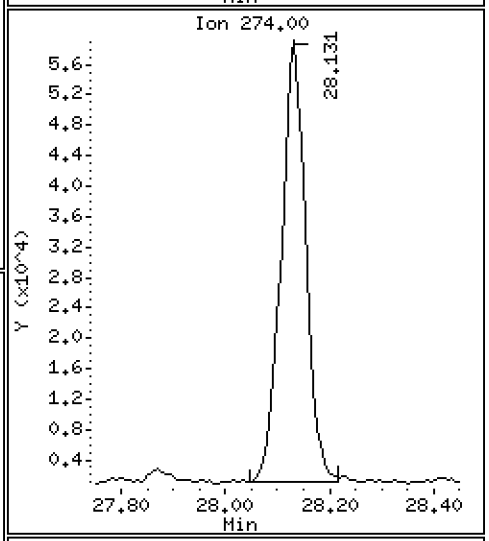


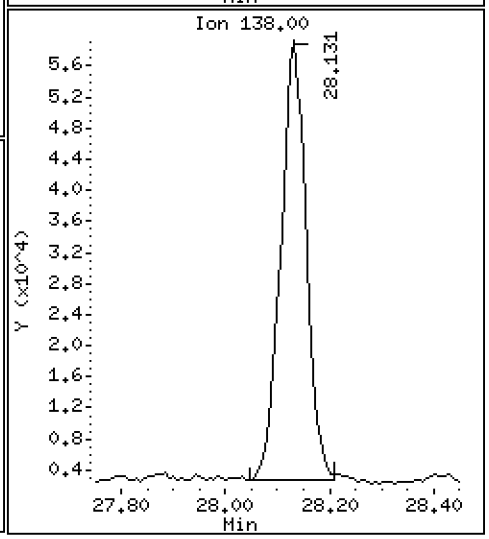












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192345.D

Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

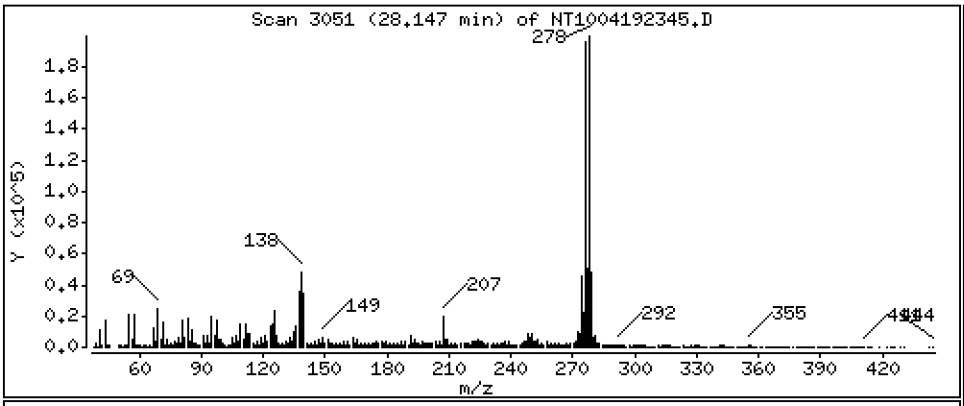
Operator: VTS

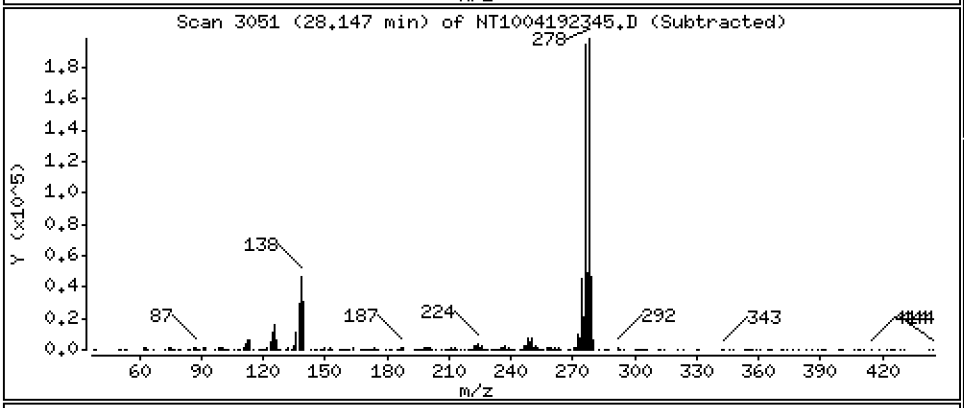
Column phase: ZB-5msi

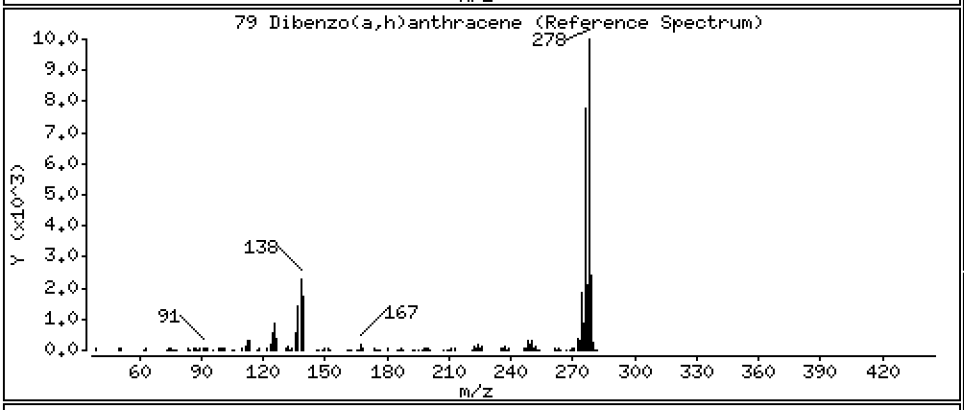
Column diameter: 0.25

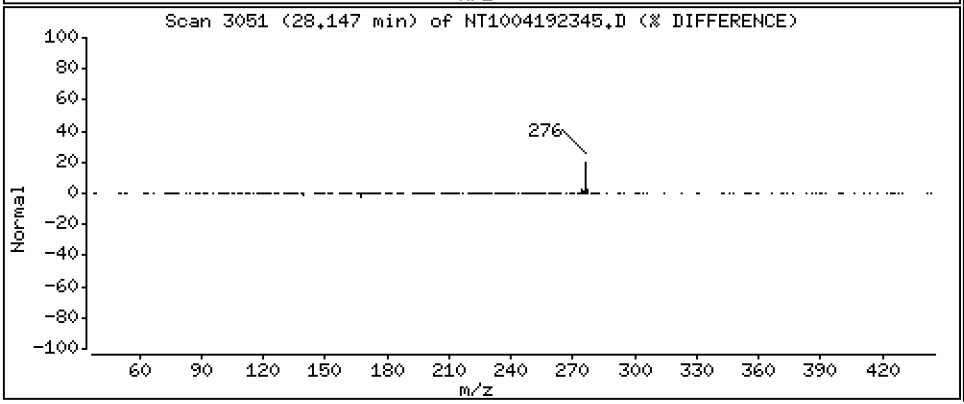
79 Dibenzo(a,h)anthracene

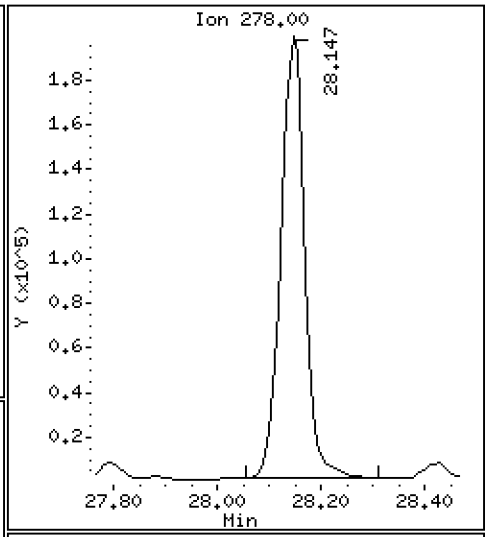
Concentration: 3.233 ug/mL

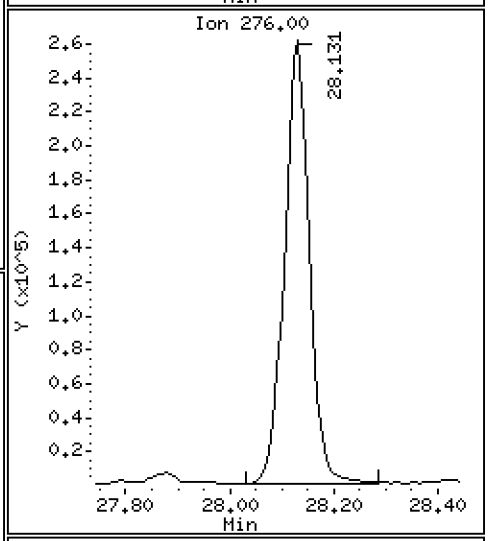


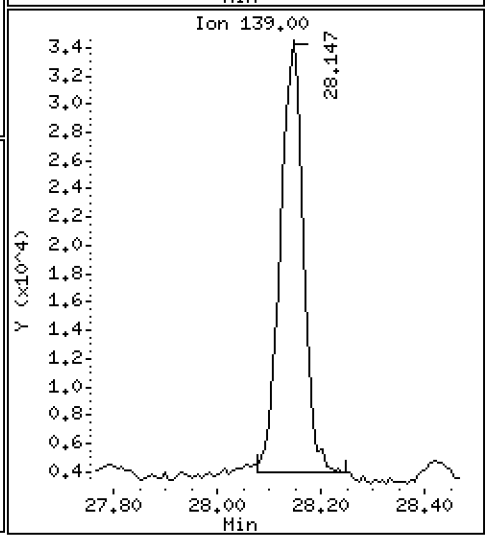












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

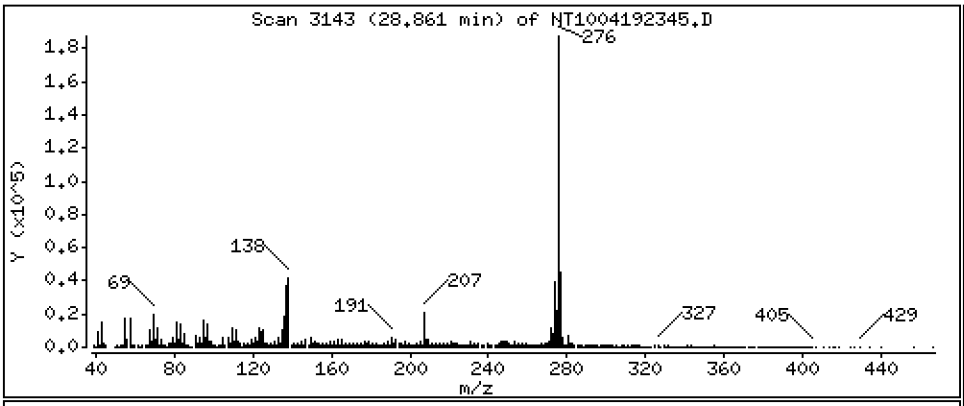
Operator: VTS

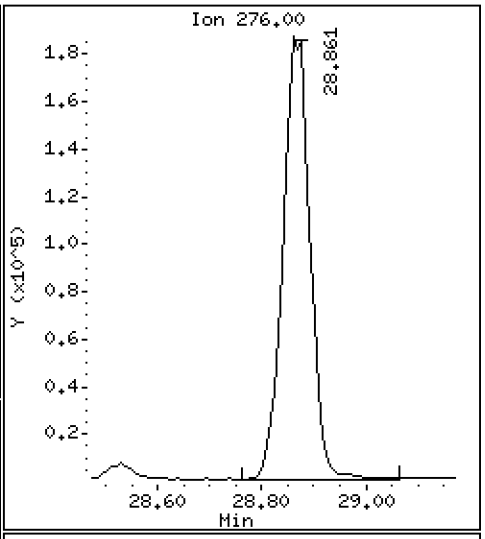
Column phase: ZB-5msi

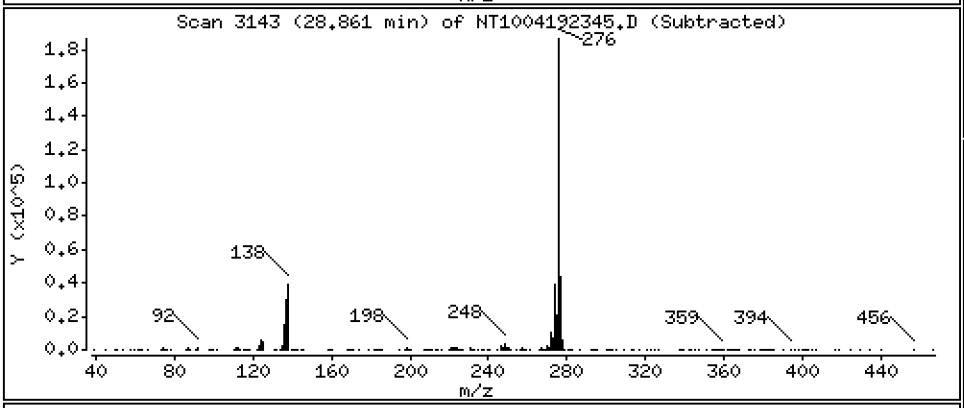
Column diameter: 0.25

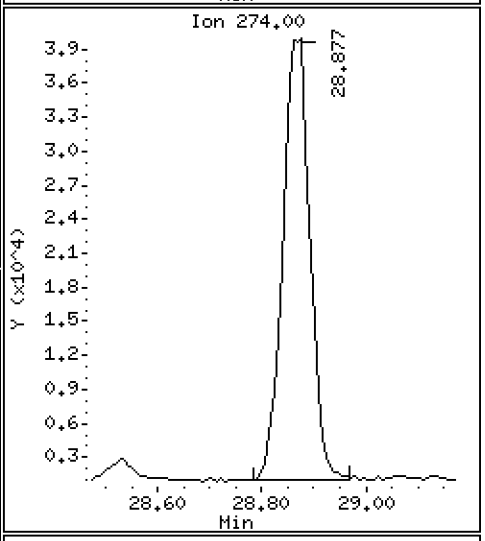
80 Benzo(g,h,i)perylene

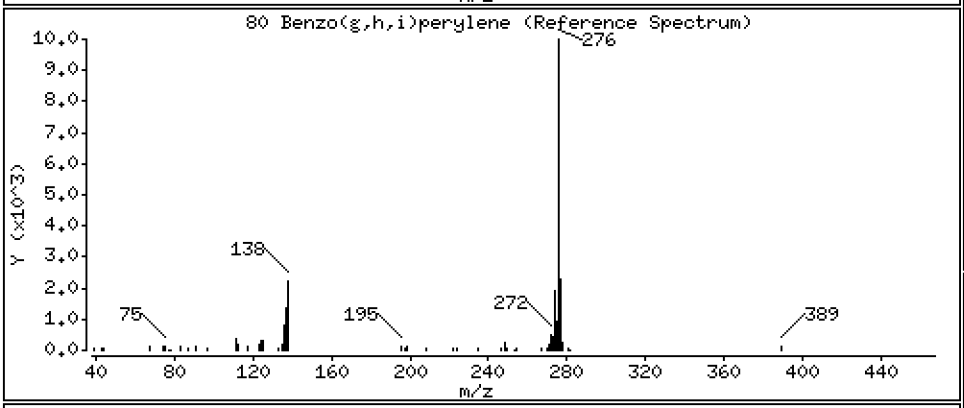
Concentration: 3.287 ug/mL

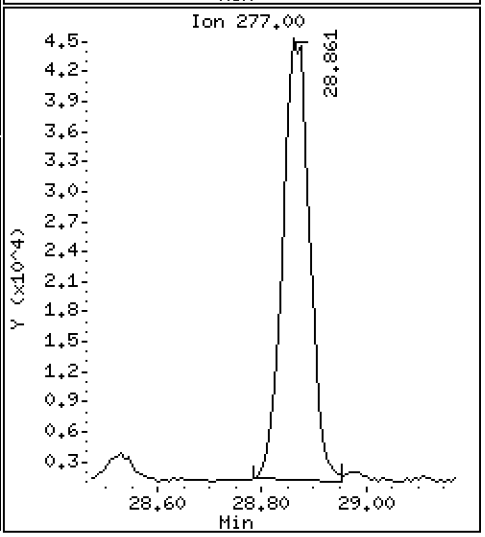


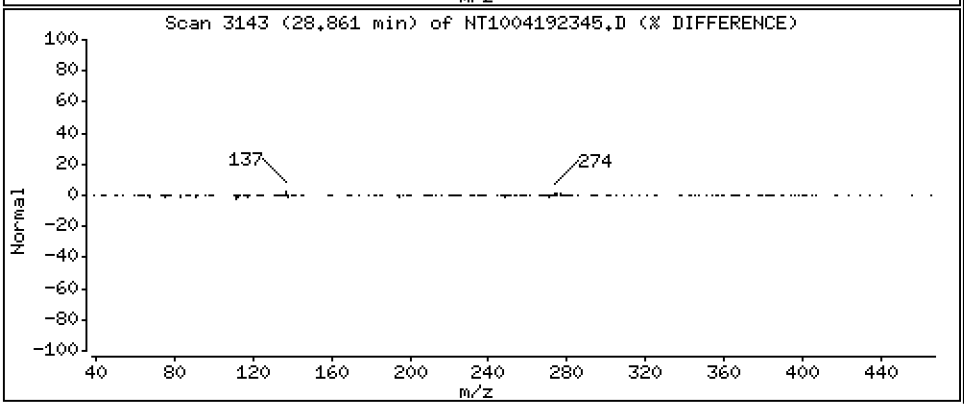












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

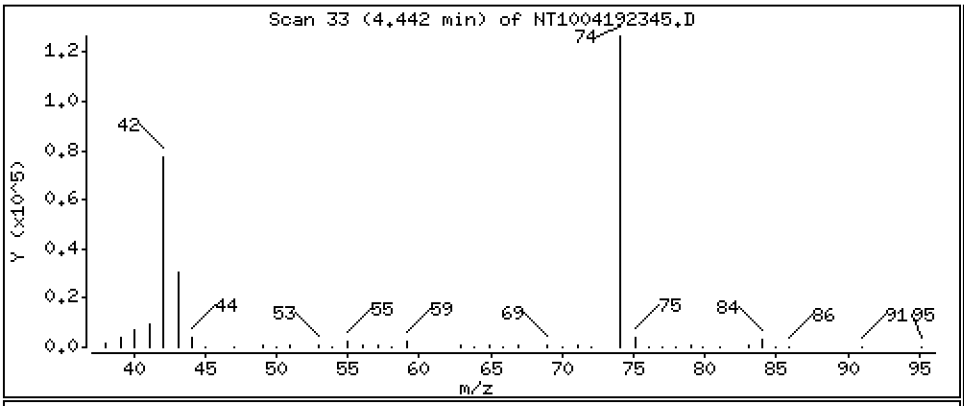
Operator: VTS

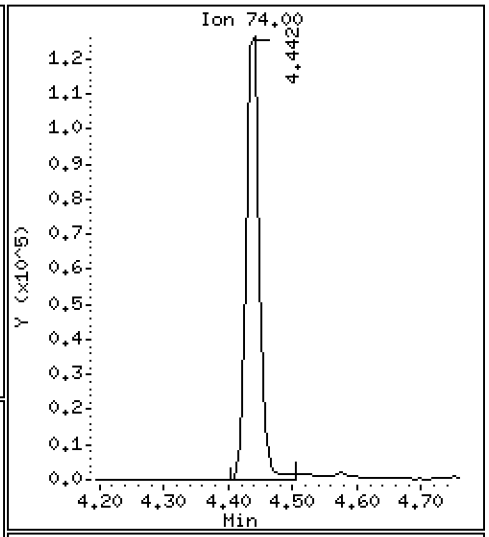
Column phase: ZB-5msi

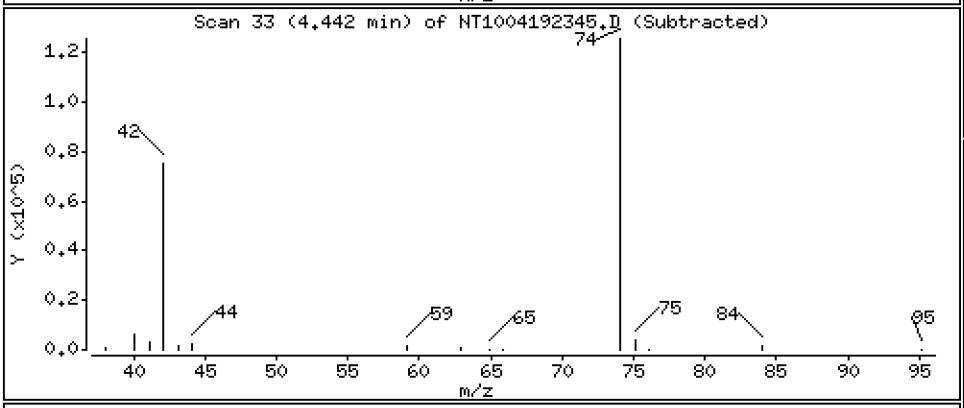
Column diameter: 0.25

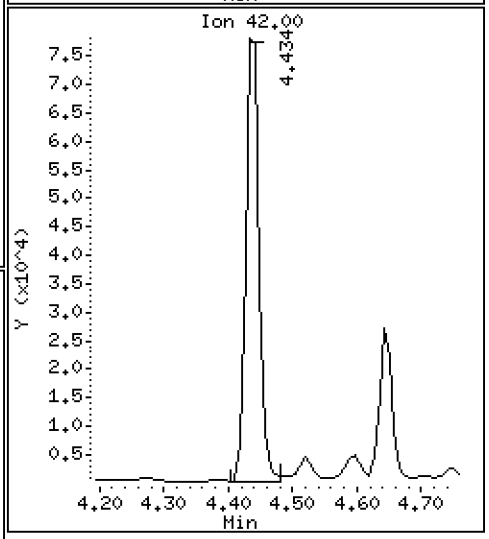
90 N-Nitrosodimethylamine

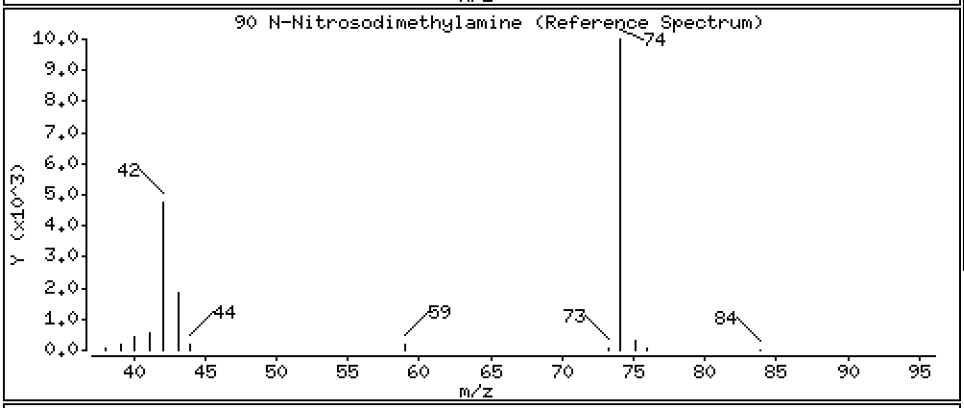
Concentration: 6.688 ug/mL

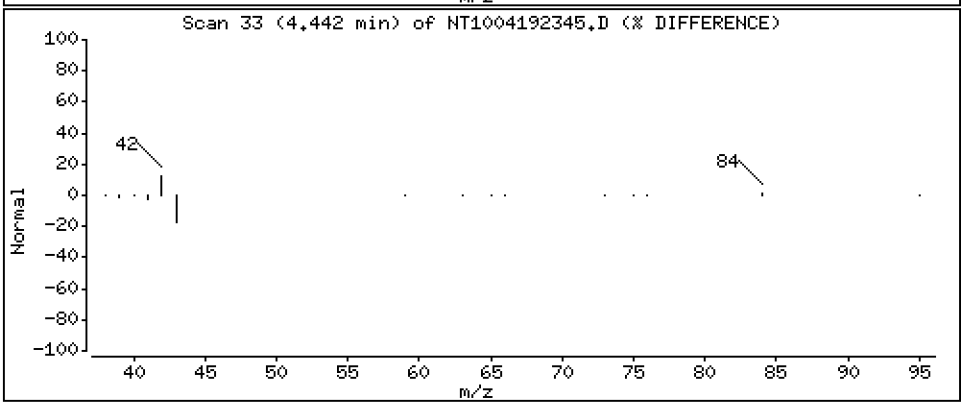












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192345.D

Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

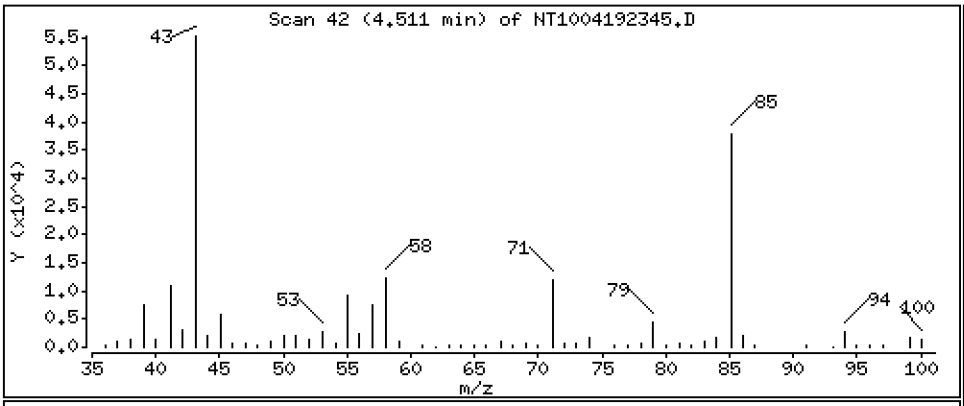
Operator: VTS

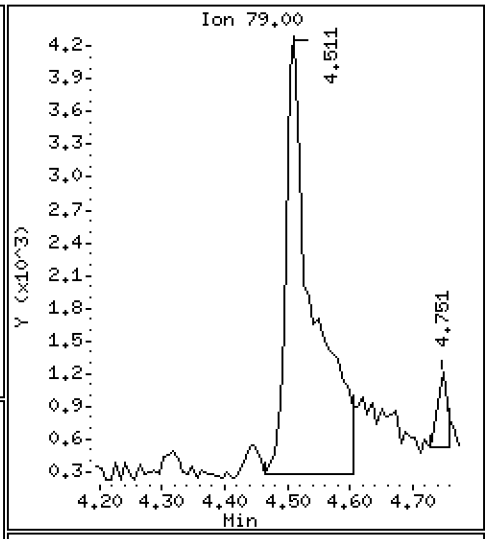
Column phase: ZB-5msi

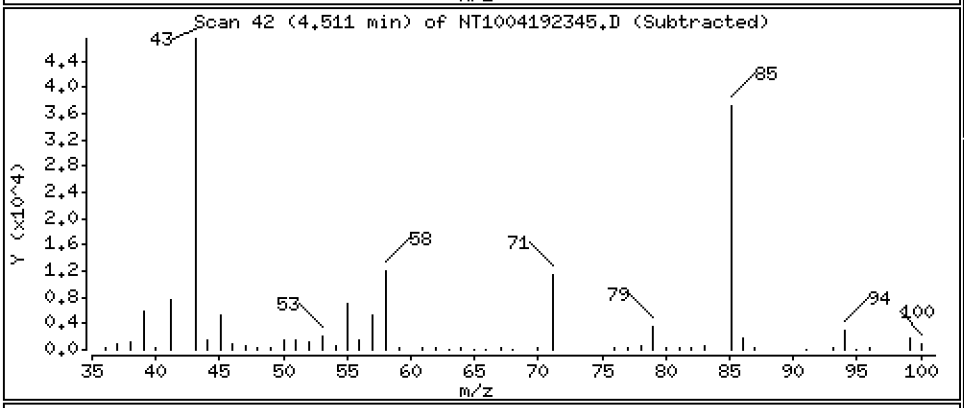
Column diameter: 0.25

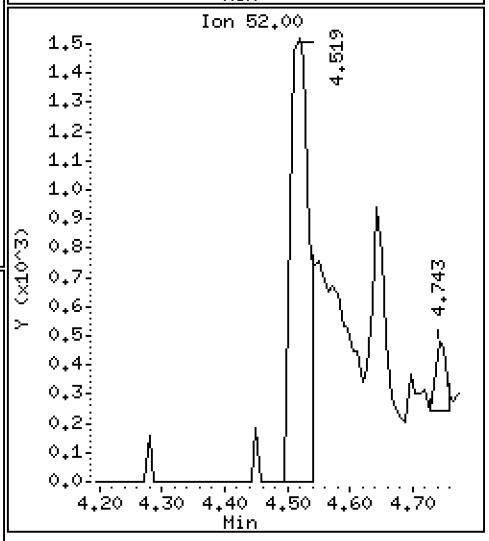
103 Pyridine

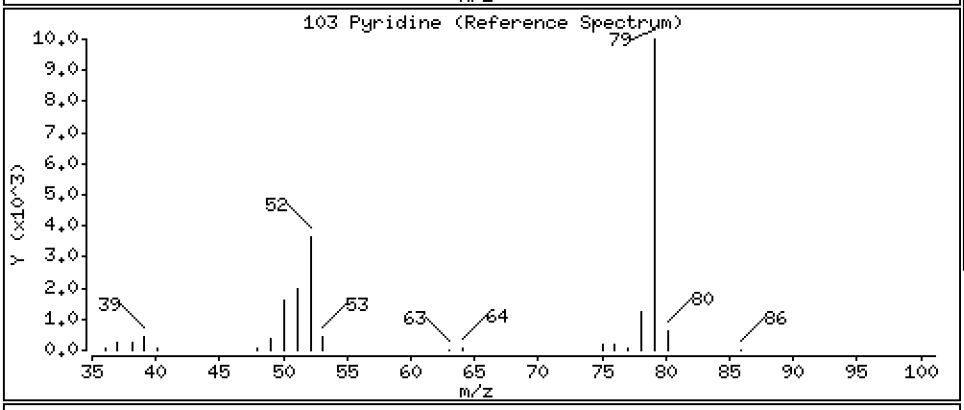
Concentration: 0.2779 ug/mL

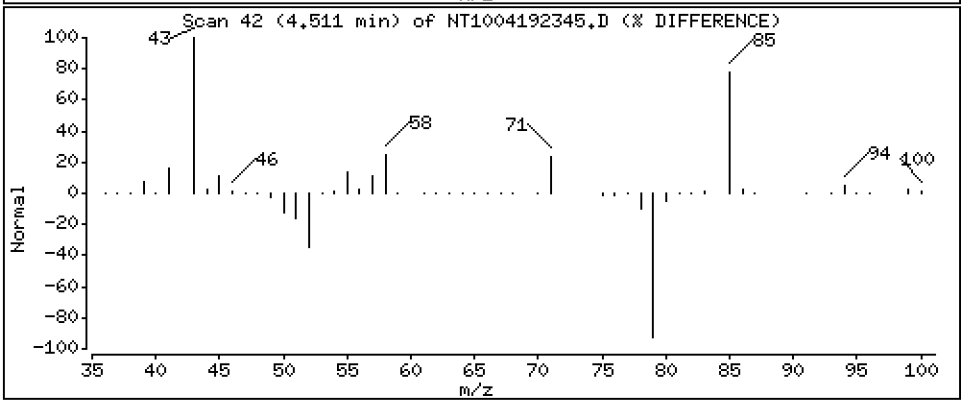












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

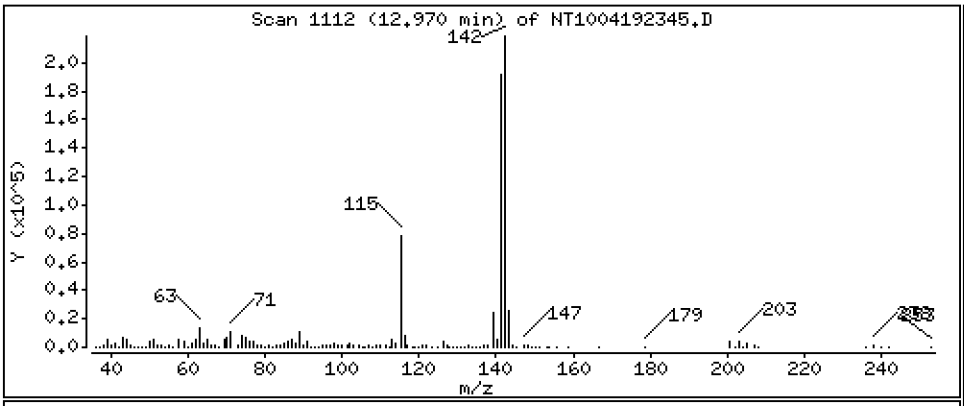
Operator: VTS

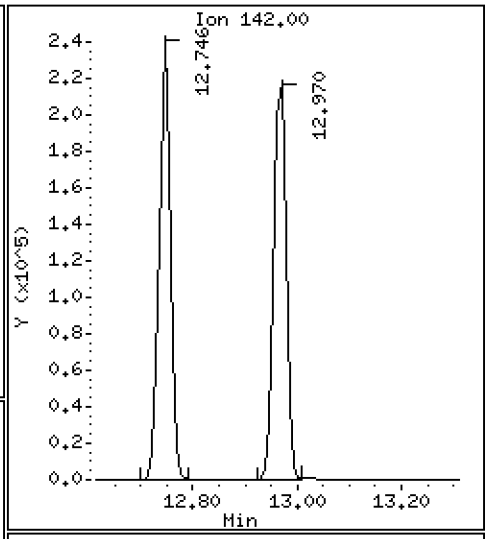
Column phase: ZB-5msi

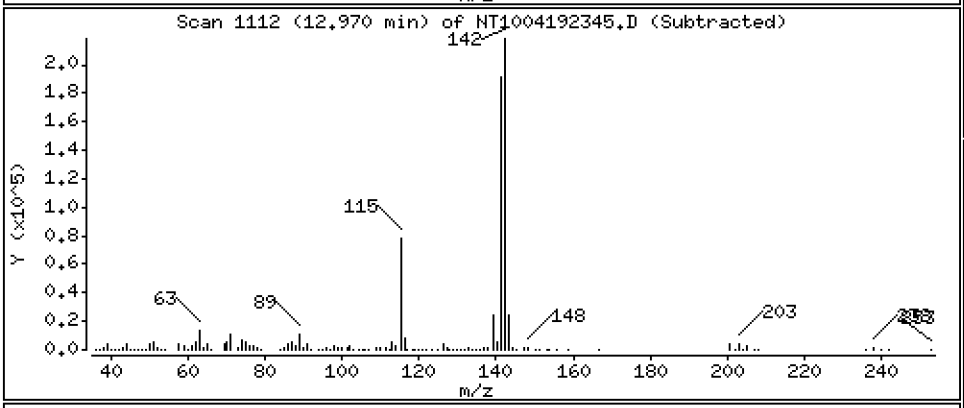
Column diameter: 0.25

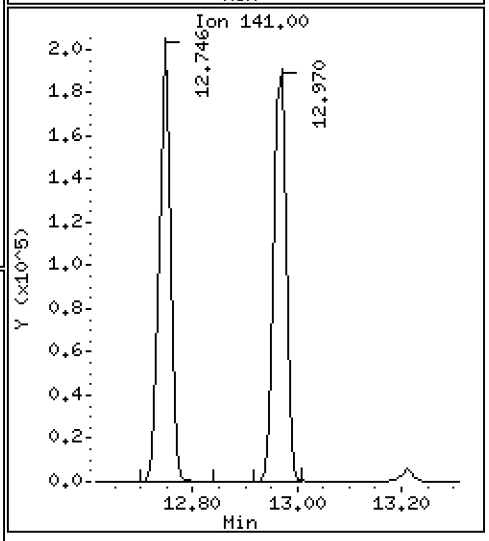
105 1-methylnaphthalene

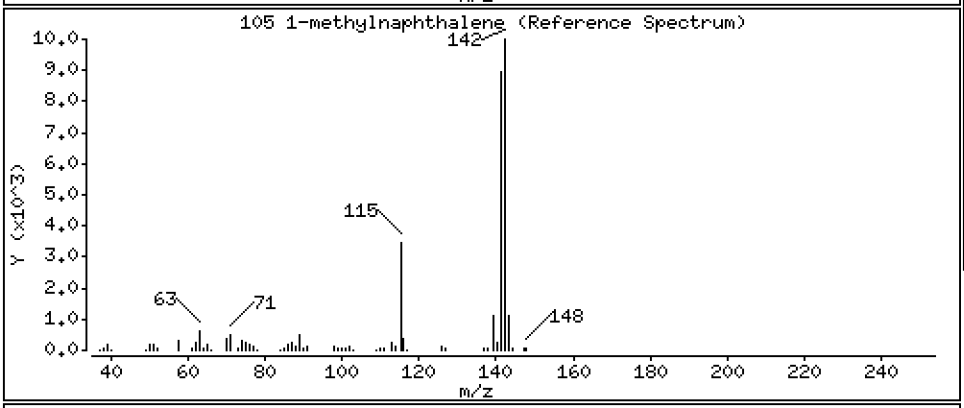
Concentration: 3.619 ug/mL

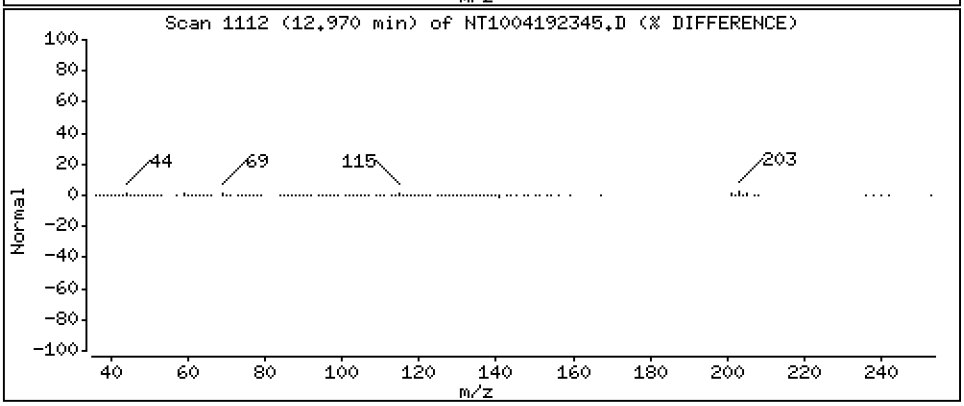












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

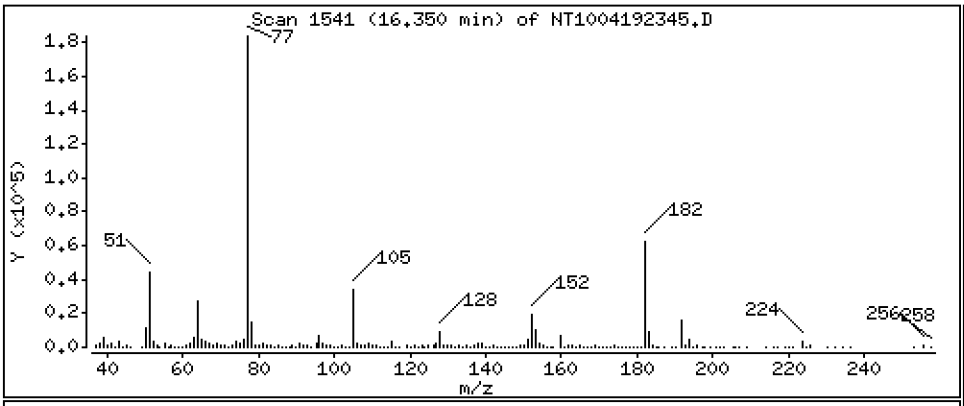
Operator: VTS

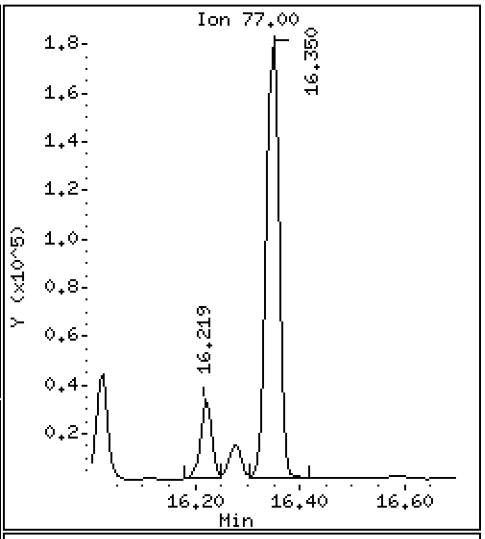
Column phase: ZB-5msi

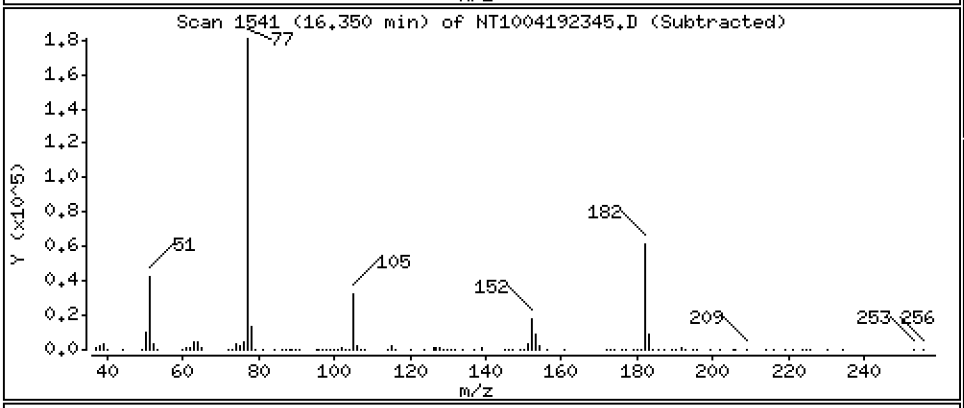
Column diameter: 0.25

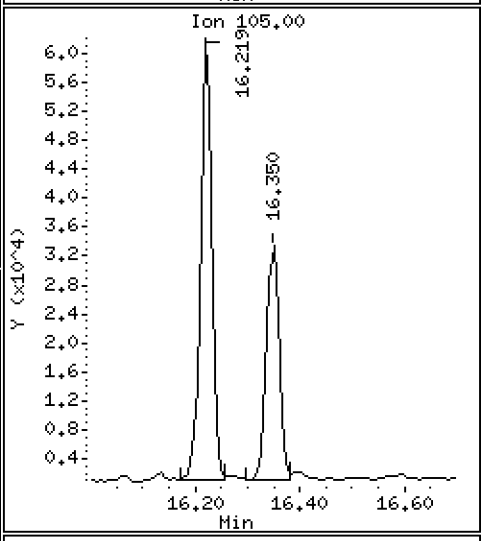
111 Azobenzene (1,2-DP-Hydrazine)

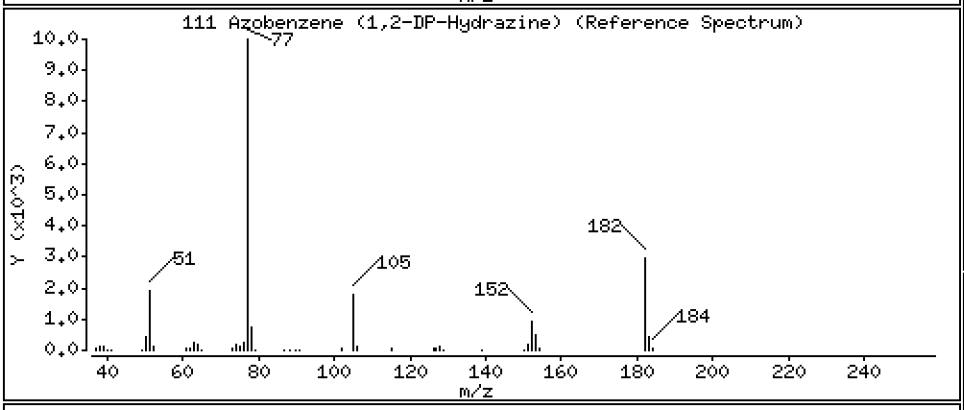
Concentration: 2.563 ug/mL

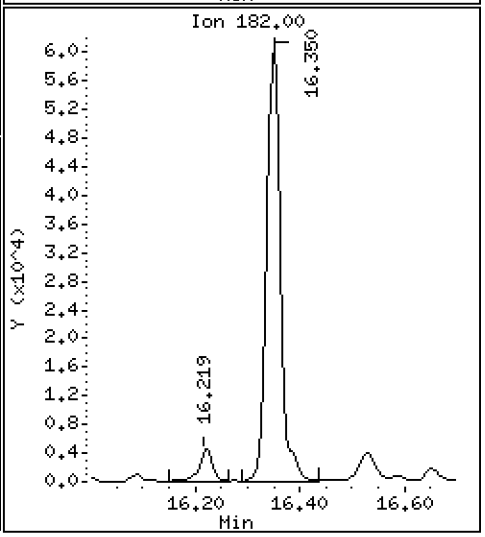


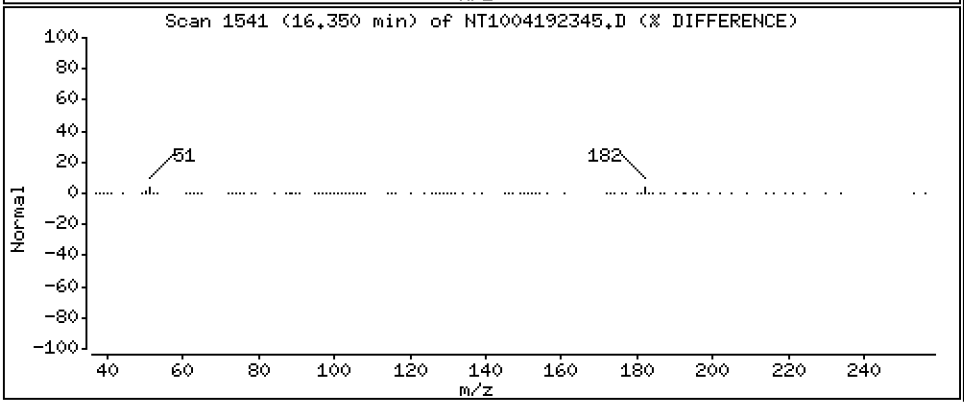












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

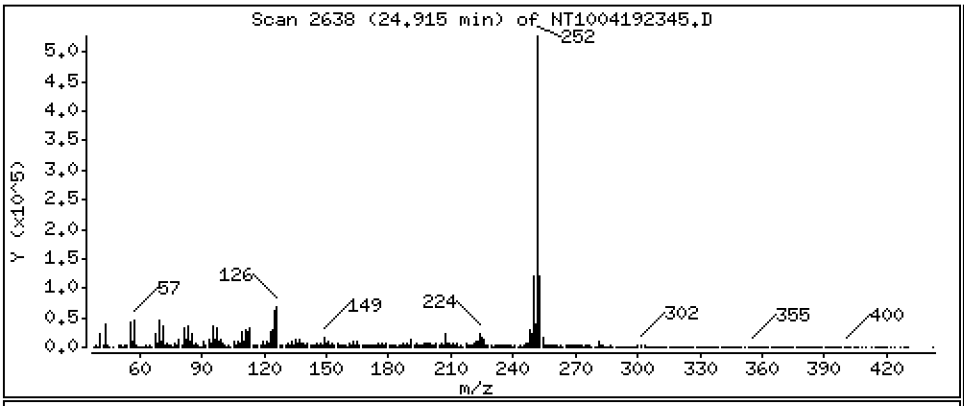
Operator: VTS

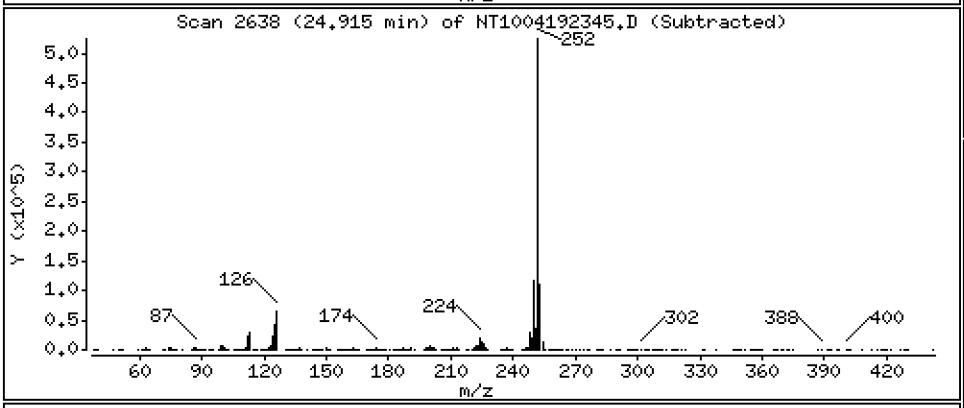
Column phase: ZB-5msi

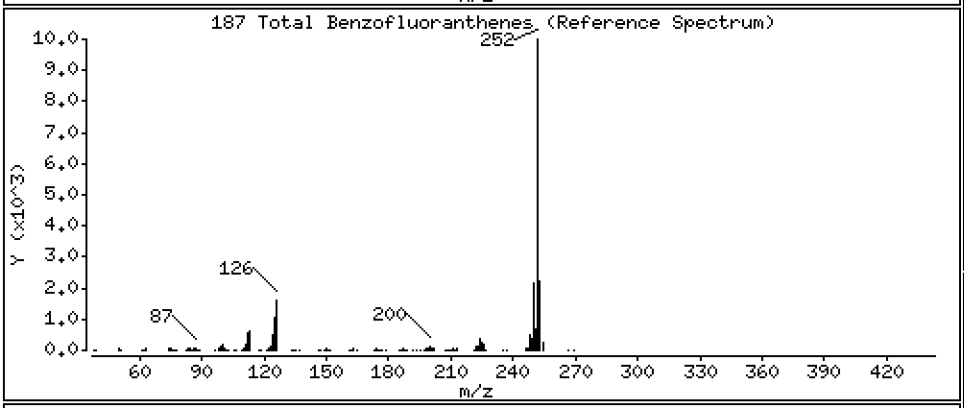
Column diameter: 0.25

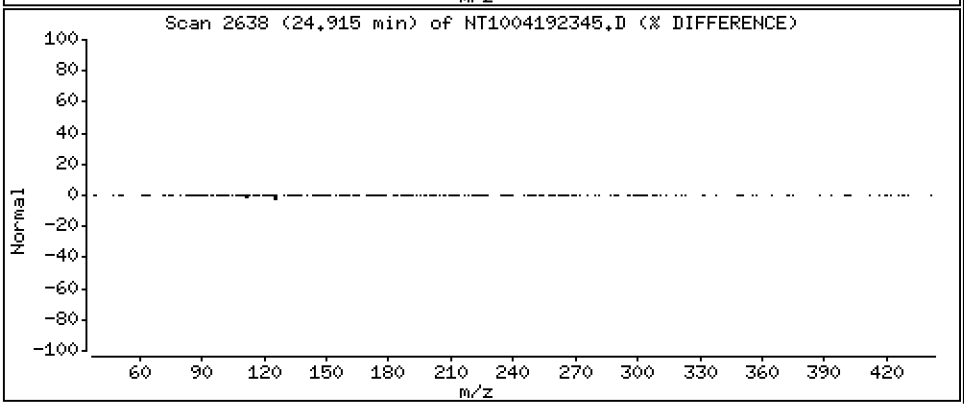
187 Total Benzofluoranthenes

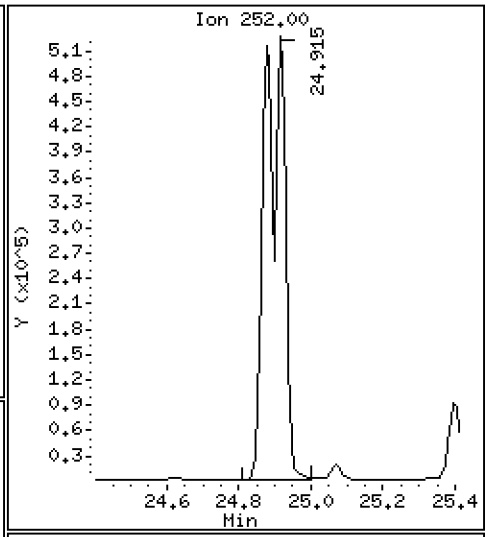
Concentration: 9.744 ug/mL

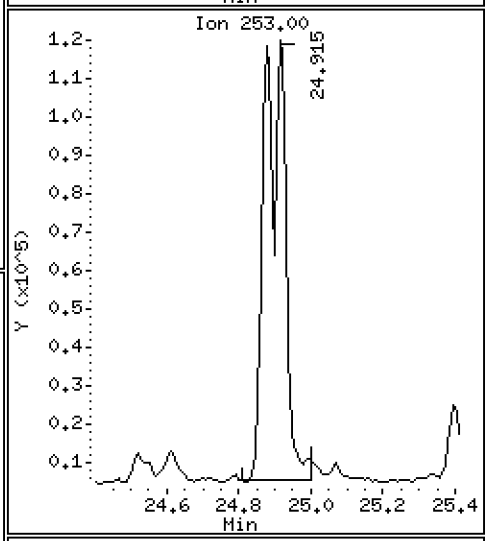


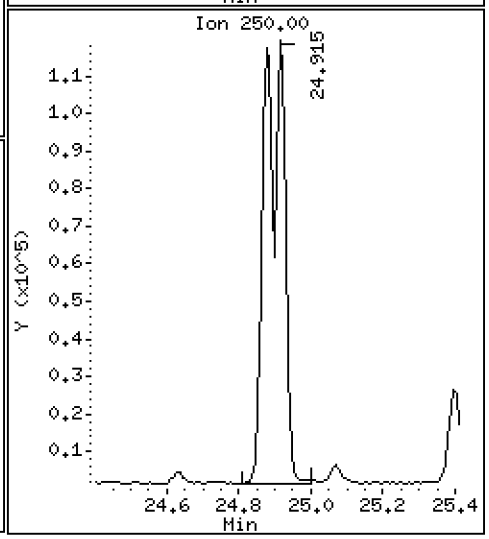












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS1

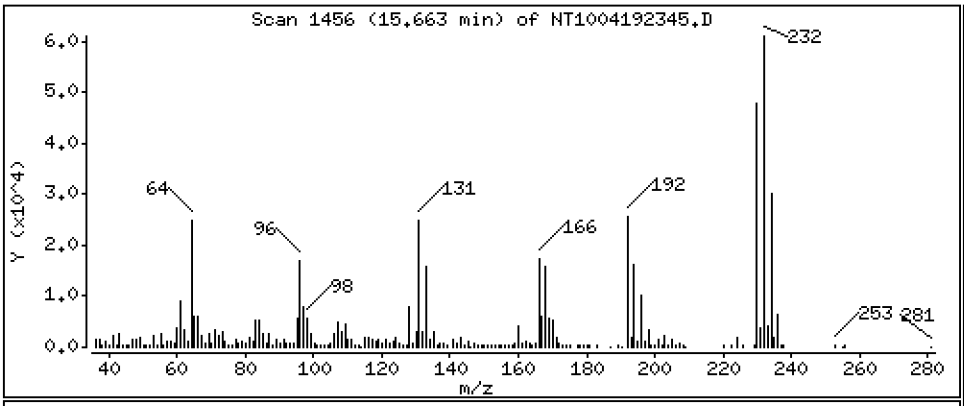
Operator: VTS

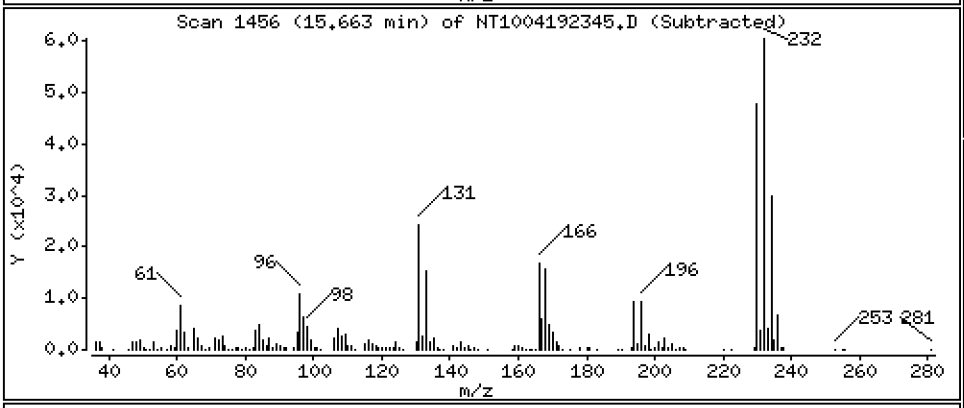
Column phase: ZB-5msi

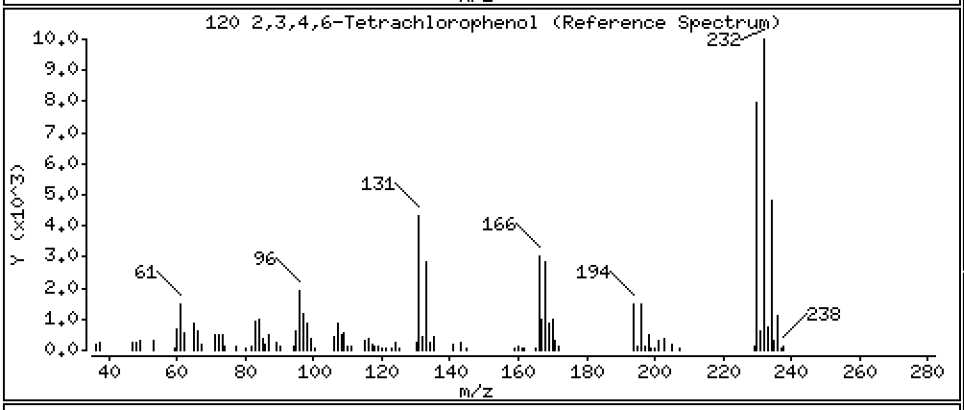
Column diameter: 0.25

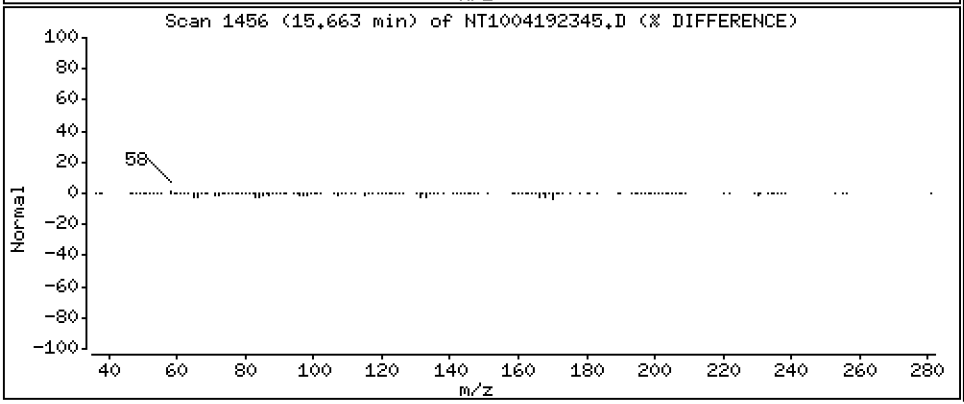
120 2,3,4,6-Tetrachlorophenol

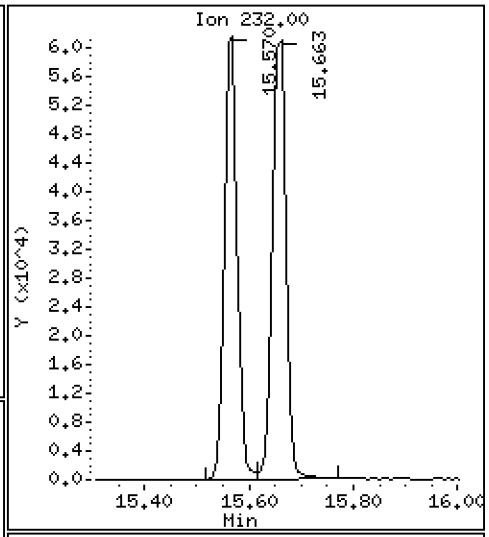
Concentration: 3.547 ug/mL

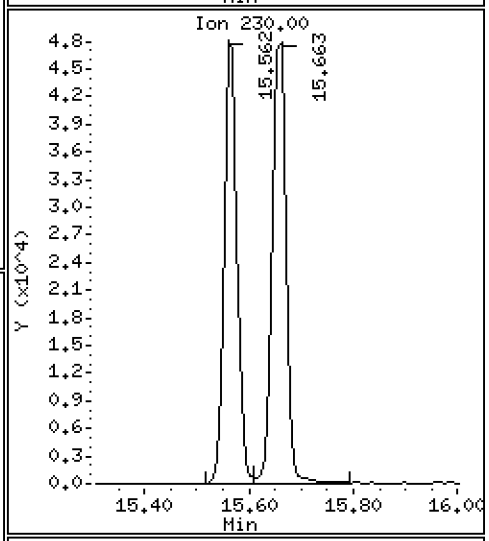


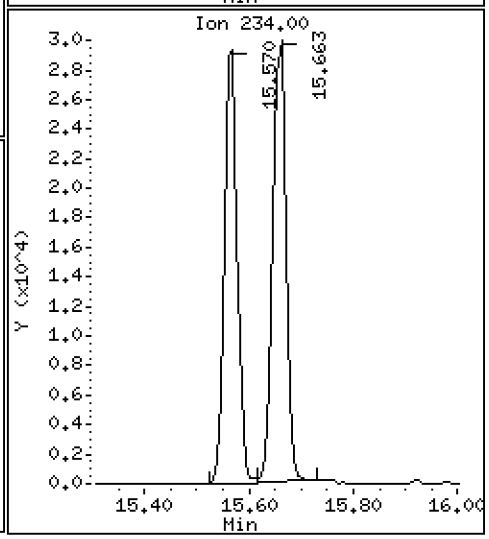












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Inj Date : 20-APR-2023 15:18
Operator : VTS Inst ID: nt10.i
Smp Info : BLD0008-MS1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Meth Date : 21-Apr-2023 11:46 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.627	6.612	(0.751)	210519	4.79237	4.792
$	2 Phenol-d5	99	8.227	8.219	(0.932)	280278	4.86366	4.864
	3 Phenol	94	8.250	8.235	(0.934)	190514	3.18141	3.181
$	5 2-Chlorophenol-d4	132	8.474	8.474	(0.960)	256904	5.22063	5.221
	4 Bis(2-Chloroethyl)ether	93	8.389	8.389	(0.950)	141721	3.19089	3.191
	6 2-Chlorophenol	128	8.505	8.497	(0.963)	181331	3.53803	3.538
	7 1,3-Dichlorobenzene	146	8.768	8.761	(0.993)	176306	3.25385	3.254
*	8 1,4-Dichlorobenzene-d4	152	8.830	8.830	(1.000)	145259	4.00000	
	9 1,4-Dichlorobenzene	146	8.861	8.861	(1.004)	176320	3.36857	3.369
$	10 1,2-Dichlorobenzene-d4	152	9.187	9.187	(1.040)	113552	3.21314	3.213
	12 1,2-Dichlorobenzene	146	9.218	9.211	(1.044)	170304	3.30605	3.306
	11 Benzyl alcohol	108	9.117	9.110	(1.033)	106916	3.80382	3.804
	14 2,2'-oxybis(1-Chloropropane)	121	9.412	9.413	(1.066)	55961	3.69920	3.699
	13 2-Methylphenol	108	9.358	9.343	(1.060)	117412	2.68965	2.690
	17 Hexachloroethane	117	9.800	9.801	(1.110)	56315	2.62229	2.622
	16 N-Nitroso-di-n-propylamine	70	9.668	9.669	(1.095)	103803	3.01149	3.011
	15 4-Methylphenol	108	9.637	9.622	(1.091)	137542	2.99034	2.990
$	18 Nitrobenzene-d5	82	9.924	9.925	(0.877)	172282	3.16202	3.162
	19 Nitrobenzene	77	9.963	9.964	(0.881)	163602	3.05971	3.060
	20 Isophorone	82	10.413	10.414	(0.920)	284643	4.16133	4.161
	21 2-Nitrophenol	139	10.591	10.592	(0.936)	90176	3.45581	3.456
	22 2,4-Dimethylphenol	107	10.659	10.660	(0.942)	127421	2.59449	2.594
	23 Bis(2-Chloroethoxy)methane	93	10.846	10.846	(0.959)	164642	3.60338	3.603
	24 Benzoic acid	105	10.854	10.897	(0.959)	251125	9.02249	9.022
	25 2,4-Dichlorophenol	162	11.058	11.050	(0.977)	479708	12.2059	12.21
	26 1,2,4-Trichlorobenzene	180	11.229	11.230	(0.992)	158850	3.44325	3.443
*	27 Naphthalene-d8	136	11.314	11.307	(1.000)	539795	4.00000	
	28 Naphthalene	128	11.353	11.353	(1.003)	470874	3.29283	3.293
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	11.716	11.716	(1.036)	103885	3.84307	3.843
	31 4-Chloro-3-methylphenol	107	12.474	12.467	(1.103)	446231	10.4882	10.49
	32 2-Methylnaphthalene	142	12.745	12.746	(1.126)	351022	3.40147	3.401
	33 Hexachlorocyclopentadiene	237	13.210	13.210	(0.885)	70117	2.36757	2.368

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
34	2,4,6-Trichlorophenol	196	13.372	13.373	(0.896)	360738	11.4058	11.41
35	2,4,5-Trichlorophenol	196	13.457	13.450	(0.902)	393827	11.2065	11.21
$ 36	2-Fluorobiphenyl	172	13.535	13.527	(0.907)	420316	3.32048	3.320
37	2-Chloronaphthalene	162	13.736	13.736	(0.921)	335988	3.27808	3.278
38	2-Nitroaniline	65	14.007	14.007	(0.939)	223173	7.75149	7.751
39	Dimethylphthalate	163	14.448	14.441	(0.968)	384346	3.69727	3.697
40	Acenaphthylene	152	14.603	14.603	(0.979)	494567	3.09662	3.097
41	2,6-Dinitrotoluene	165	14.579	14.580	(0.977)	240259	10.6988	10.70
* 42	Acenaphthene-d10	164	14.920	14.913	(1.000)	319999	4.00000	
43	3-Nitroaniline	138	14.866	14.859	(0.996)	47664	1.88048	1.880
44	Acenaphthene	153	14.982	14.982	(1.004)	325718	3.30117	3.301
45	2,4-Dinitrophenol	184	15.067	15.067	(1.010)	32147	2.36149	2.361
46	Dibenzofuran	168	15.314	15.307	(1.026)	489820	3.36646	3.366
47	4-Nitrophenol	109	15.214	15.206	(1.020)	132824	8.37517	8.375
48	2,4-Dinitrotoluene	165	15.384	15.384	(1.031)	321858	9.62451	9.625
50	Diethylphthalate	149	15.902	15.902	(1.066)	463119	4.54061	4.541
49	Fluorene	166	16.025	16.018	(1.074)	441972	3.86106	3.861
51	4-Chlorophenyl-phenylether	204	16.025	16.018	(1.074)	202967	3.72871	3.729
52	4-Nitroaniline	138	16.133	16.126	(1.081)	72472	3.17272	3.173
53	4,6-Dinitro-2-methylphenol	198	16.226	16.219	(0.904)	261151	14.7960	14.80
54	N-Nitrosodiphenylamine	169	16.280	16.273	(0.907)	223072	2.90244	2.902
$ 55	2,4,6-Tribromophenol	330	16.565	16.558	(1.110)	89373	5.98272	5.983
56	4-Bromophenyl-phenylether	248	17.028	17.021	(0.948)	132470	4.12006	4.120
57	Hexachlorobenzene	284	17.337	17.330	(0.966)	133233	3.95233	3.952
58	Pentachlorophenol	266	17.701	17.694	(0.986)	246234	12.0614	12.06
* 59	Phenanthrene-d10	188	17.957	17.949	(1.000)	574859	4.00000	
60	Phenanthrene	178	18.003	17.996	(1.003)	628127	4.00715	4.007
61	Anthracene	178	18.096	18.089	(1.008)	471115	3.13314	3.133
62	Carbazole	167	18.436	18.429	(1.027)	473053	3.51083	3.511
63	Di-n-butylphthalate	149	19.272	19.265	(1.073)	717138	3.97507	3.975
64	Fluoranthene	202	20.425	20.402	(0.886)	982089	4.19675	4.197
65	Pyrene	202	20.842	20.827	(0.904)	1048144	4.36627	4.366
$ 66	Terphenyl-d14	244	21.144	21.137	(0.917)	530924	2.94506	2.945
67	Butylbenzylphthalate	149	22.097	22.089	(0.959)	300504	3.48983	3.490
68	Benzo(a)anthracene	228	23.026	23.019	(0.999)	825251	4.01458	4.015
* 69	Chrysene-d12	240	23.049	23.042	(1.000)	582384	4.00000	
70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71	Chrysene	228	23.095	23.088	(1.002)	864941	4.30679	4.307
72	bis(2-Ethylhexyl)phthalate	149	23.142	23.135	(0.959)	562243	4.30859	4.309
* 134	Di-n-octylphthalate-d4	153	24.133	24.126	(1.000)	889795	4.00000	
73	Di-n-octylphthalate	149	24.141	24.133	(1.000)	821169	3.52655	3.527
74	Benzo(b)fluoranthene	252	24.876	24.861	(0.971)	1097522	5.15509	5.155
75	Benzo(k)fluoranthene	252	24.915	24.908	(0.973)	1024718	4.74004	4.740
76	Benzo(a)pyrene	252	25.496	25.481	(0.995)	786134	4.13004	4.130
* 77	Perylene-d12	264	25.612	25.589	(1.000)	656795	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.131	28.092	(1.098)	873524	3.60715	3.607
79	Dibenzo(a,h)anthracene	278	28.146	28.116	(1.099)	649944	3.23274	3.233
80	Benzo(g,h,i)perylene	276	28.861	28.822	(1.127)	688787	3.28661	3.287
90	N-Nitrosodimethylamine	74	4.441	4.411	(0.503)	187442	6.68835	6.688
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	4.511	4.426	(0.511)	11962	0.27792	0.2779
105	1-methylnaphthalene	142	12.970	12.962	(1.146)	342161	3.61883	3.619
111	Azobenzene (1,2-DP-Hydrazine)	77	16.349	16.350	(1.096)	292010	2.56296	2.563

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	24.915	24.908	(0.973)	2003065	9.74439	9.744
120 2,3,4,6-Tetrachlorophenol	232	15.662	15.655	(1.050)	116823	3.54673	3.547

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192345.D
Lab Smp Id: BLD0008-MS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Misc Info:

Calibration Date: 20-APR-2023
Calibration Time: 07:41
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	129725	64863	259450	145259	11.97
27 Naphthalene-d8	475671	237836	951342	539795	13.48
42 Acenaphthene-d10	277889	138945	555778	319999	15.15
59 Phenanthrene-d10	485346	242673	970692	574859	18.44
69 Chrysene-d12	453075	226538	906150	582384	28.54
134 Di-n-octylphthala	697265	348633	1394530	889795	27.61
77 Perylene-d12	538138	269069	1076276	656795	22.05

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.83	8.33	9.33	8.83	-0.01
27 Naphthalene-d8	11.31	10.81	11.81	11.31	0.06
42 Acenaphthene-d10	14.91	14.41	15.41	14.92	0.05
59 Phenanthrene-d10	17.95	17.45	18.45	17.96	0.04
69 Chrysene-d12	23.04	22.54	23.54	23.05	0.03
134 Di-n-octylphthala	24.13	23.63	24.63	24.13	0.03
77 Perylene-d12	25.59	25.09	26.09	25.61	0.09

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

REVIEW SUMMARY FOR FILE - NT1004192345.D

Lab ID: BLD0008-MS1
nt10.i, 20230419B.b\ABN.m,   20-APR-2023 15:18

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.511	0.501	0.0096	Pyridine

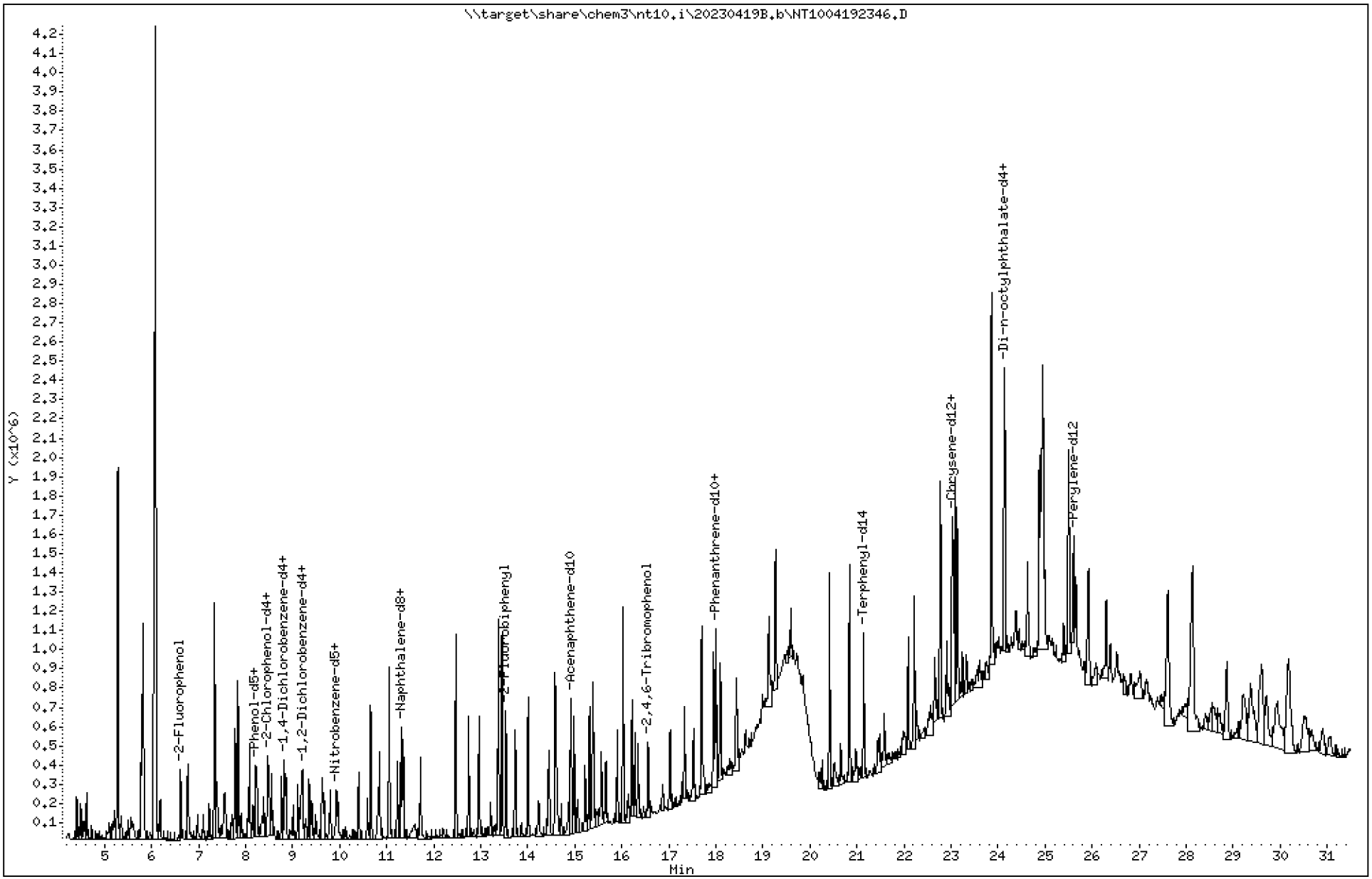
RRT check based on Ccal File: NT1004192333.D

On Column LOD for nt10.i, 20230419B.b\ABN.m, ICAL.sub = 0.0000

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

Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192346.D
Date : 20-APR-2023 15:56
Client ID:
Sample Info: BLD0008-MSD1

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



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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

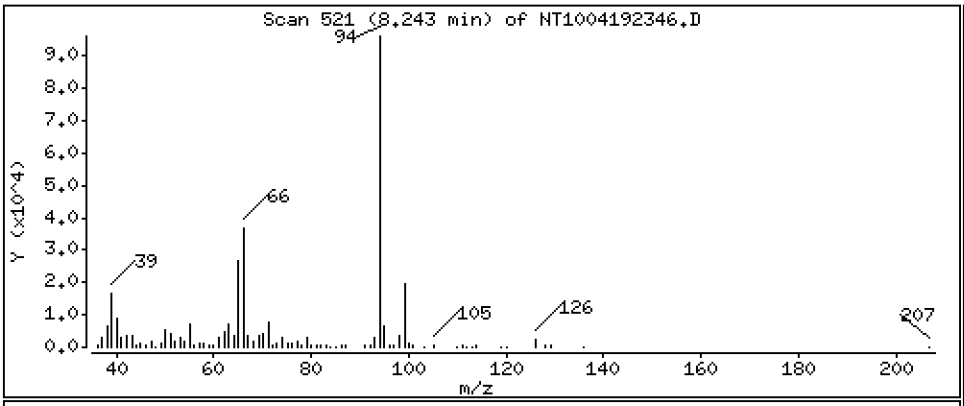
Operator: VTS

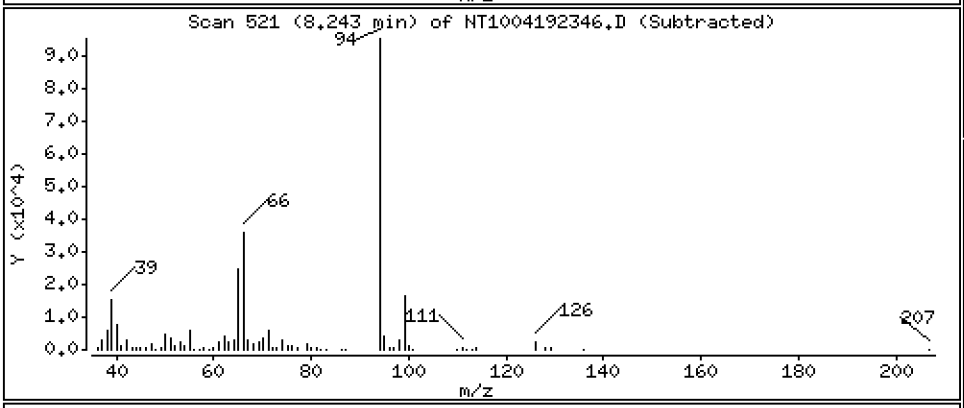
Column phase: ZB-5msi

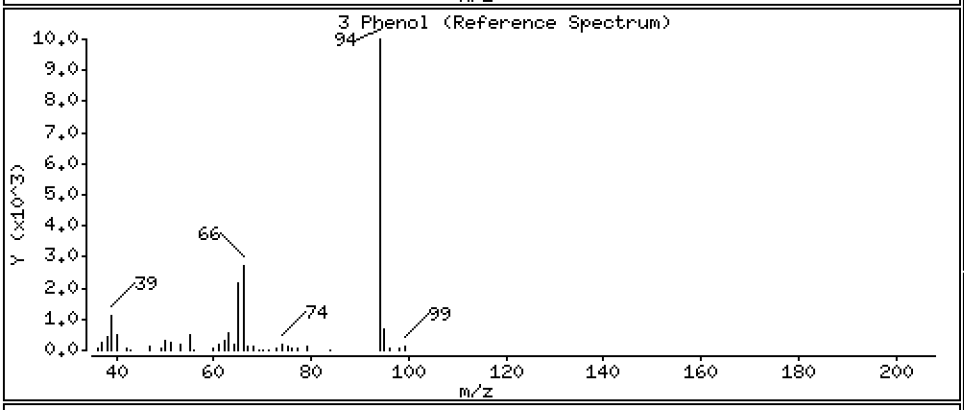
Column diameter: 0.25

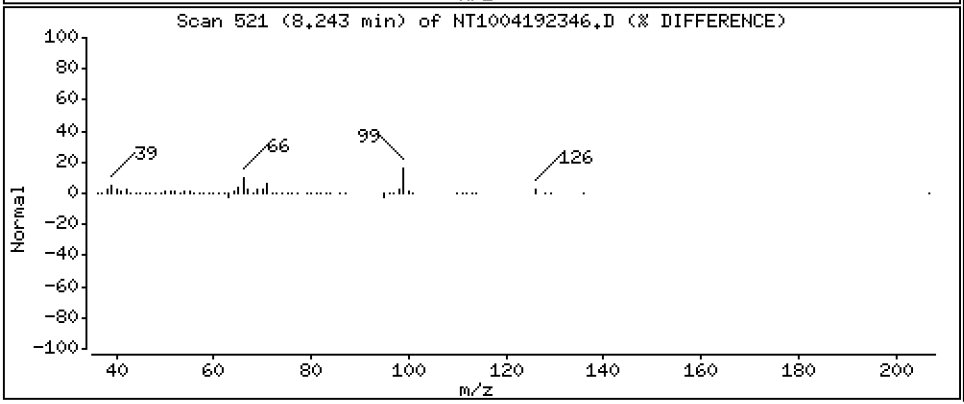
3 Phenol

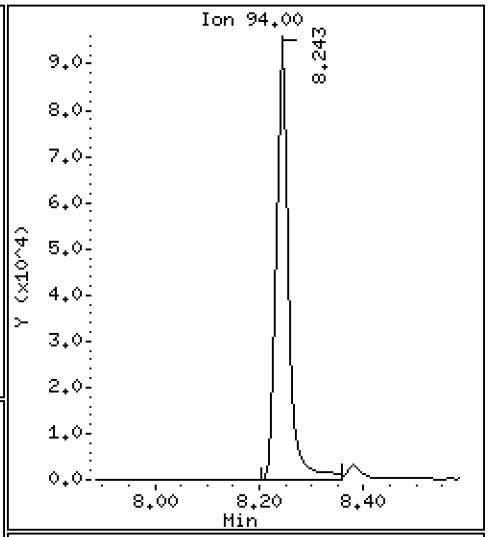
Concentration: 3.078 ug/mL

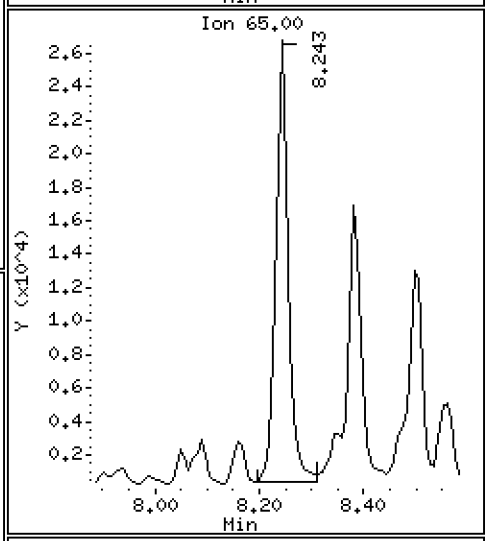


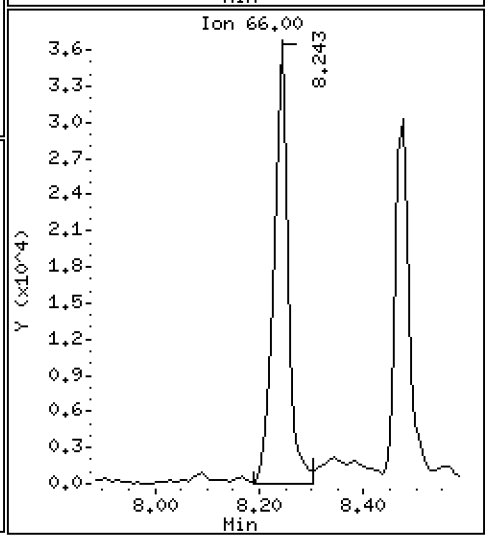












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

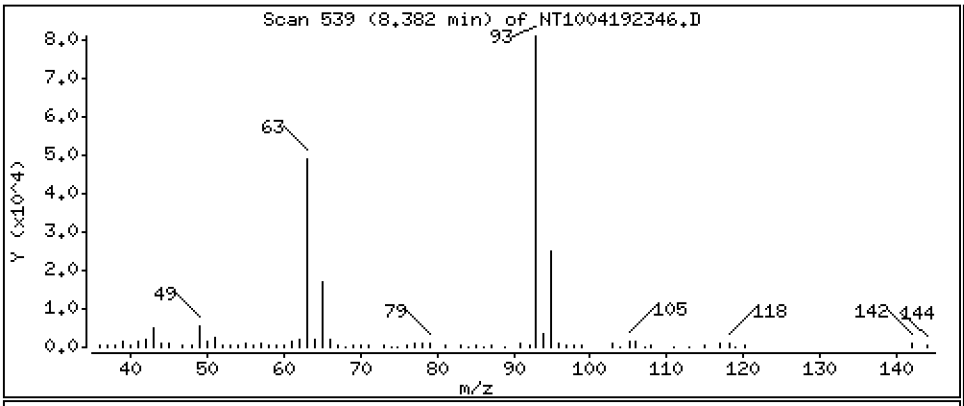
Operator: VTS

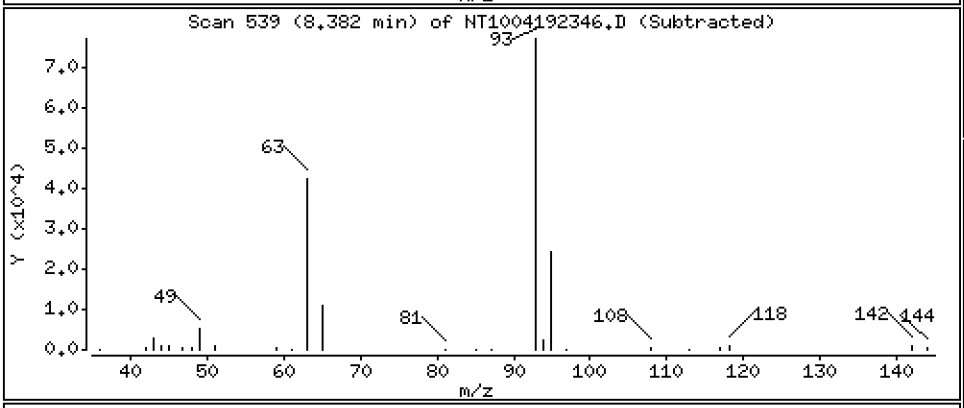
Column phase: ZB-5msi

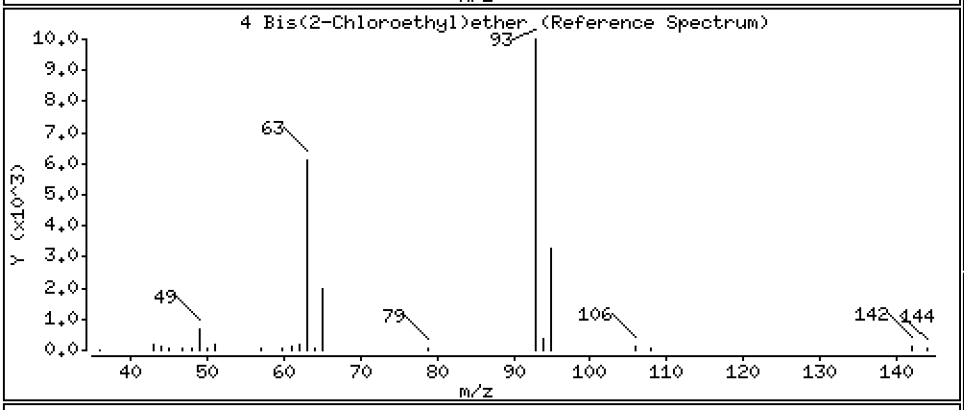
Column diameter: 0.25

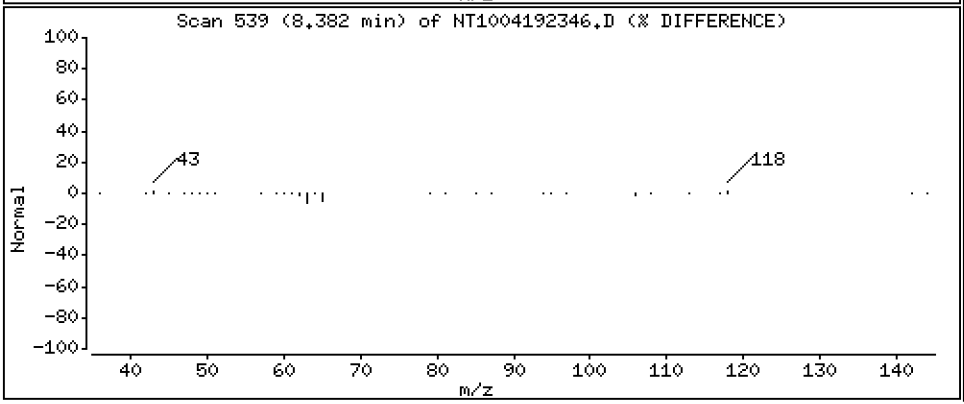
4 Bis(2-Chloroethyl)ether

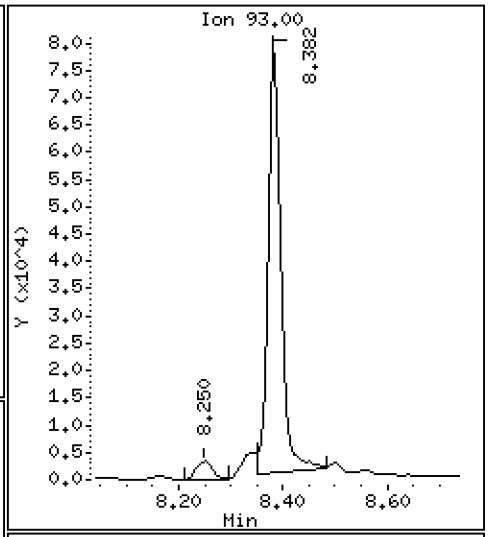
Concentration: 3.450 ug/mL

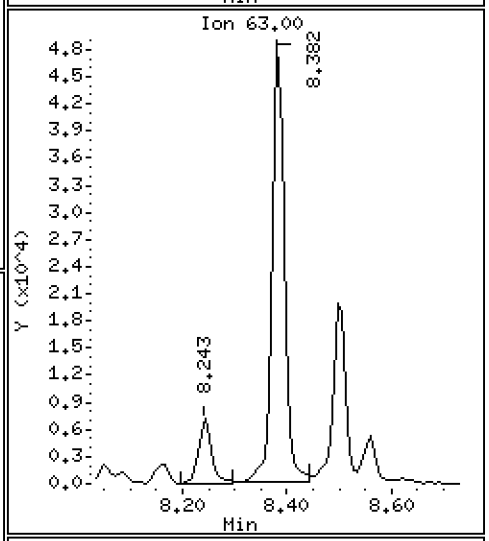


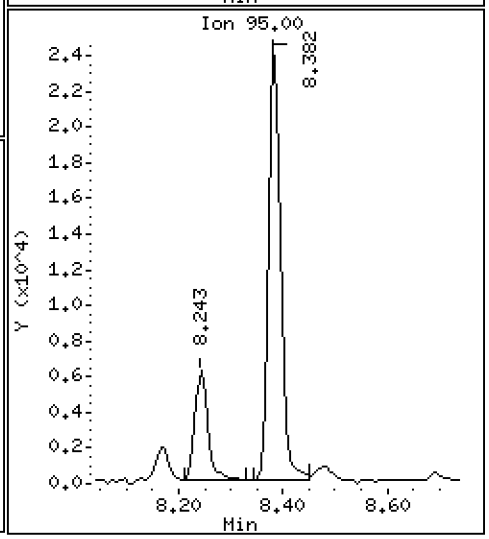












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

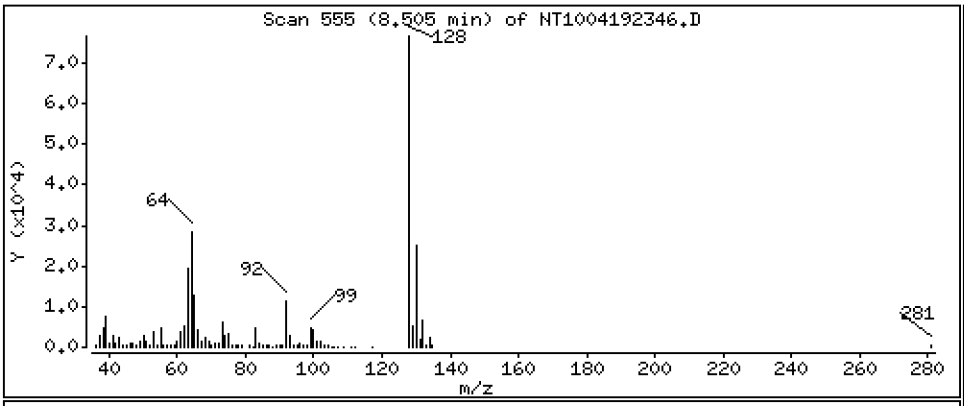
Operator: VTS

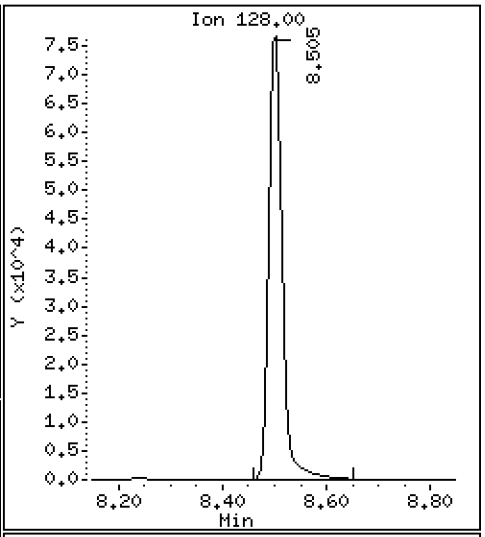
Column phase: ZB-5msi

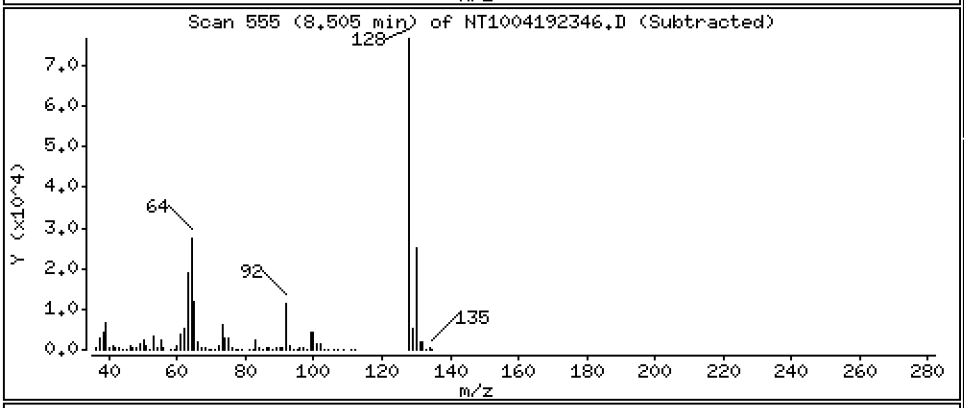
Column diameter: 0.25

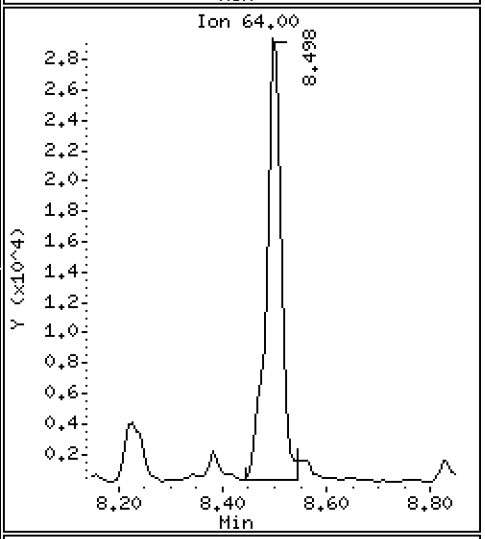
6 2-Chlorophenol

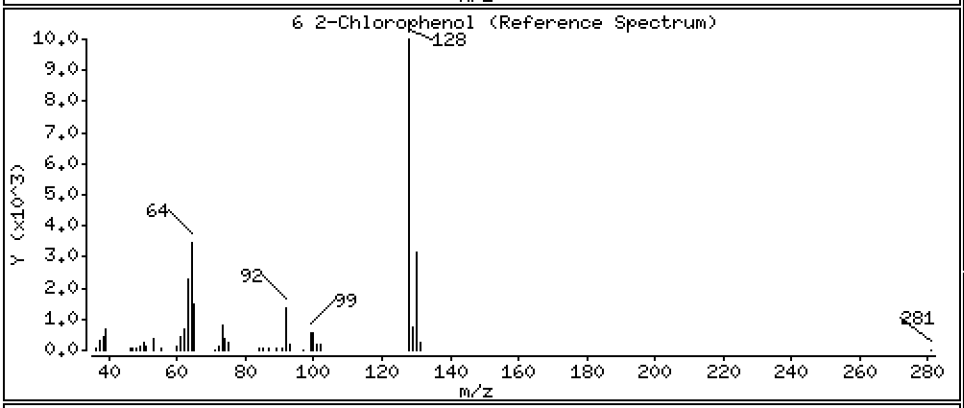
Concentration: 3.345 ug/mL

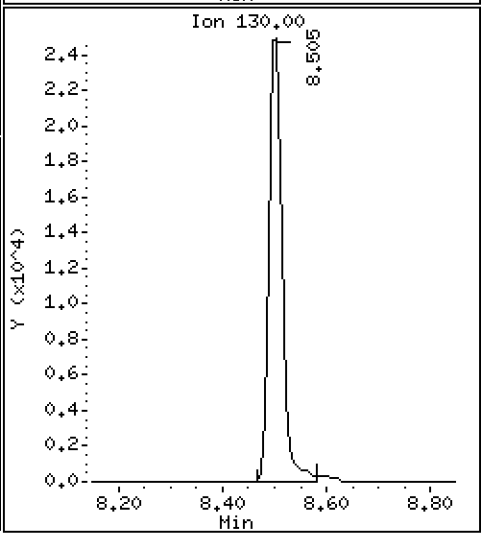


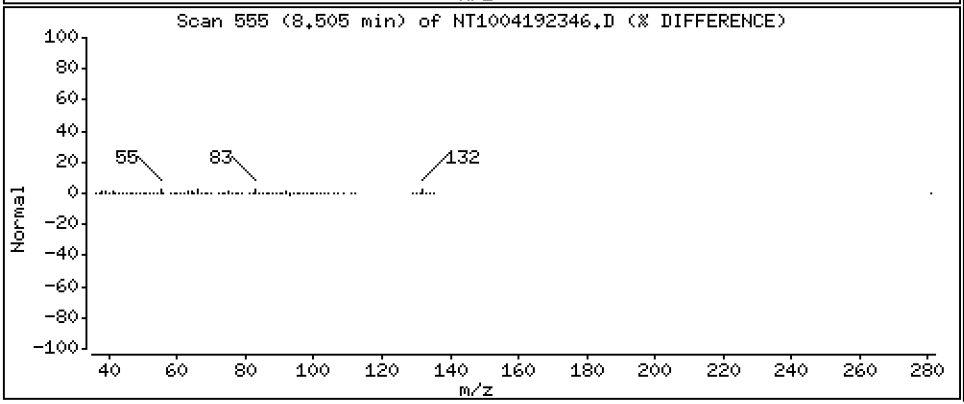












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

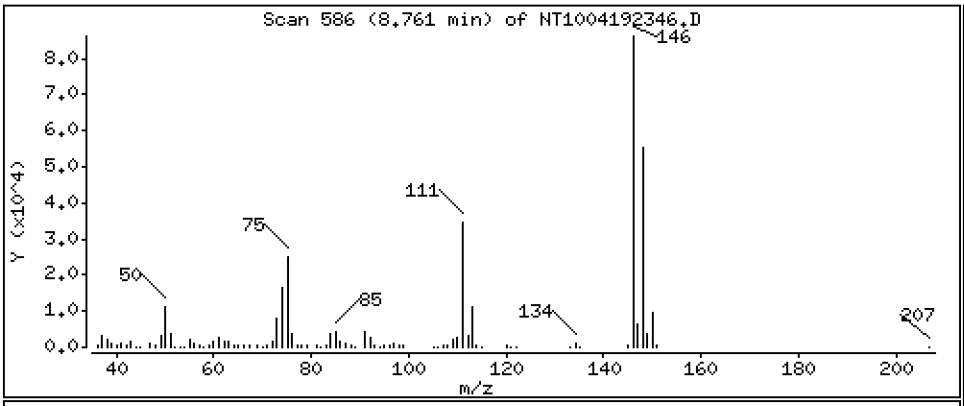
Operator: VTS

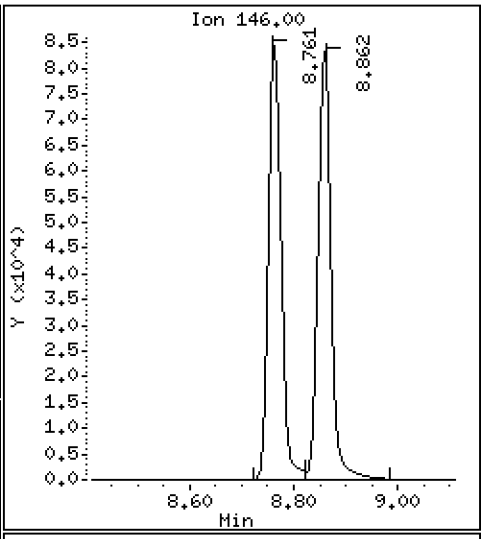
Column phase: ZB-5msi

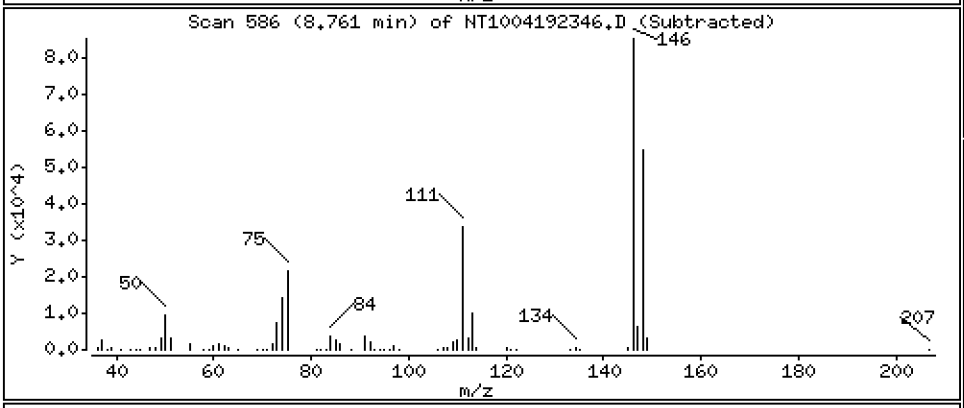
Column diameter: 0.25

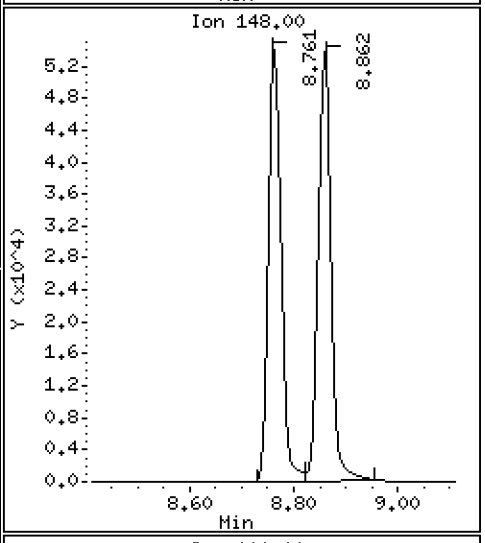
7 1,3-Dichlorobenzene

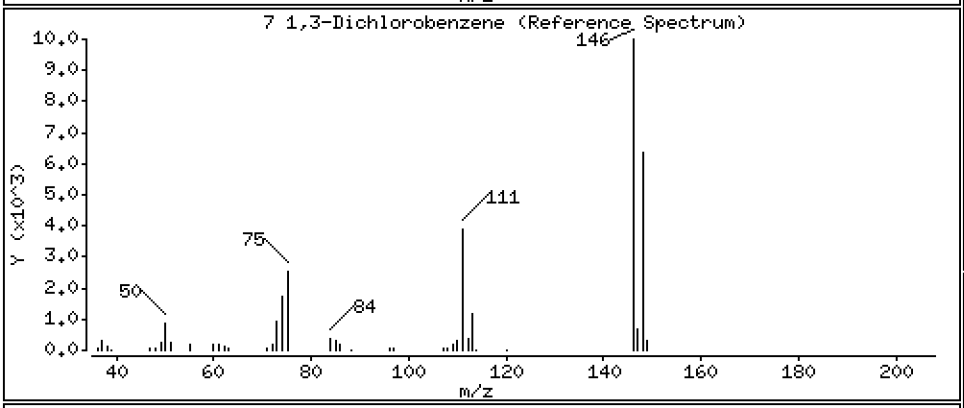
Concentration: 3.097 ug/mL

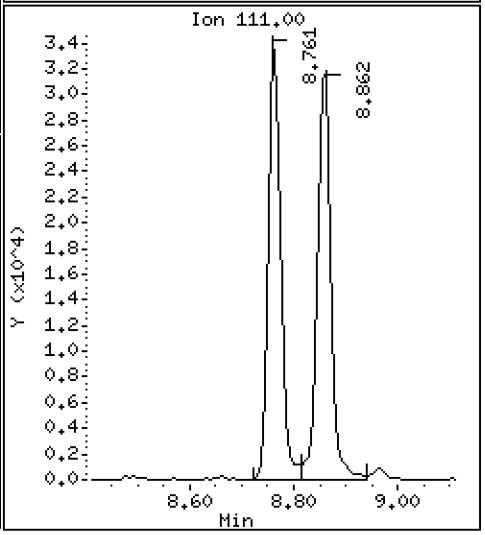


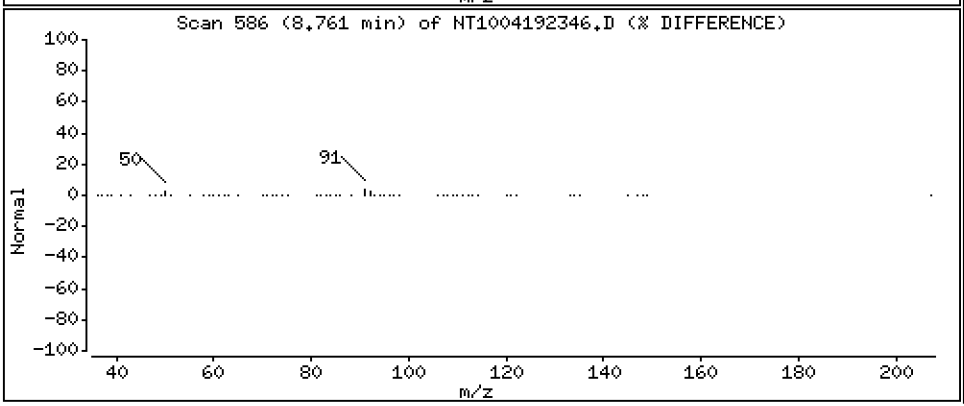












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

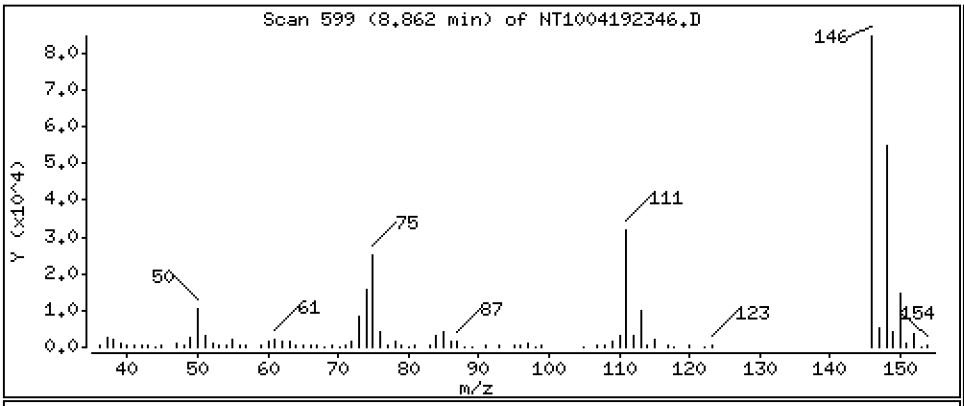
Operator: VTS

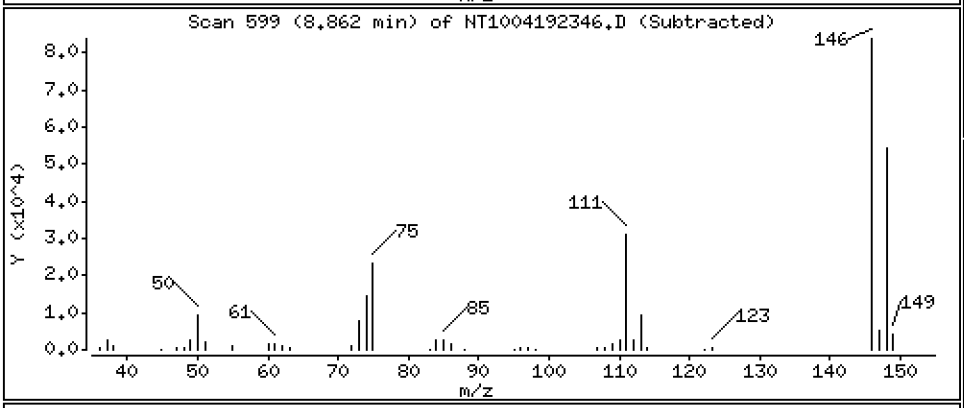
Column phase: ZB-5msi

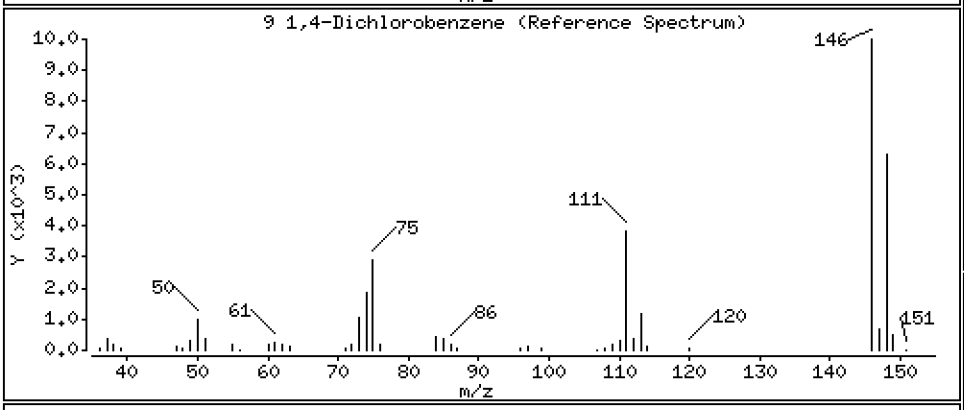
Column diameter: 0.25

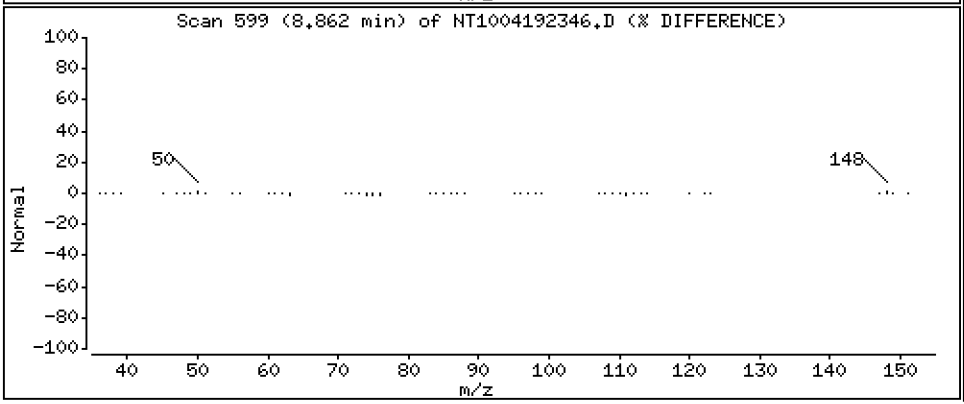
9 1,4-Dichlorobenzene

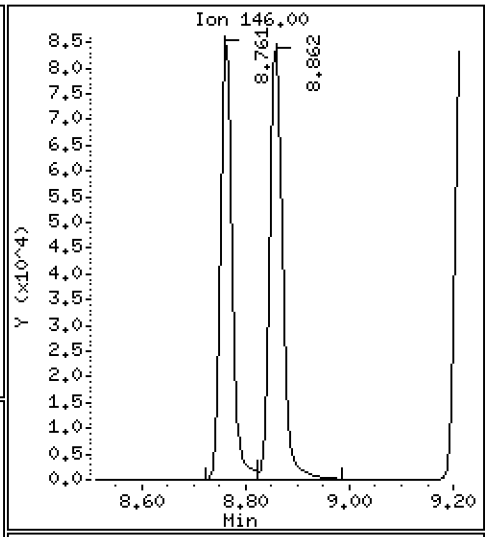
Concentration: 3.236 ug/mL

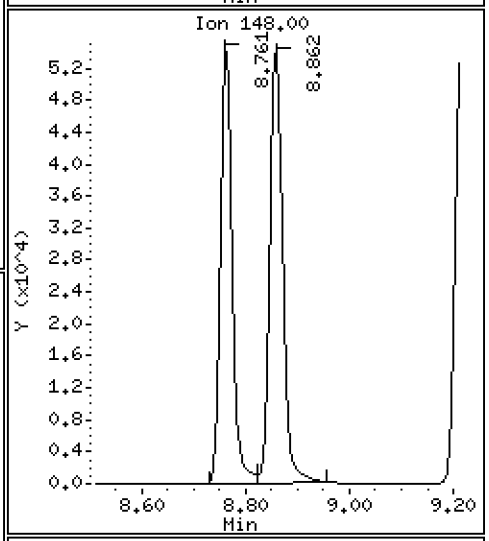


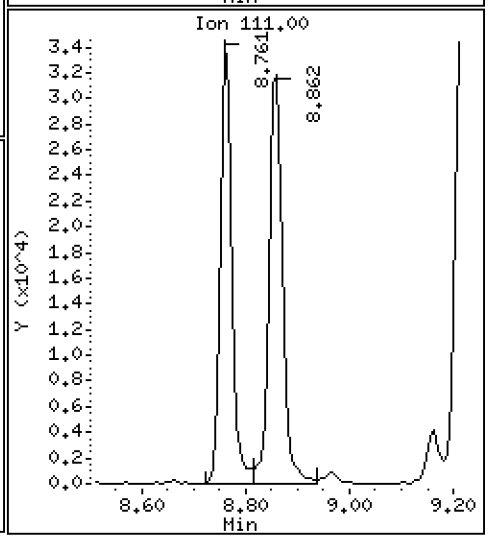












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

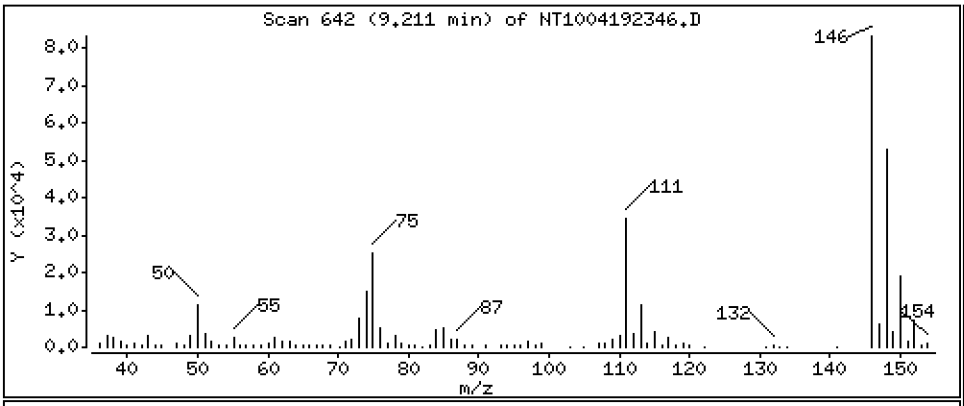
Operator: VTS

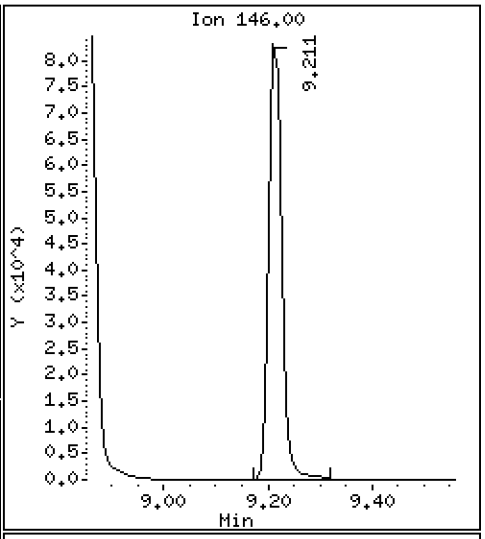
Column phase: ZB-5msi

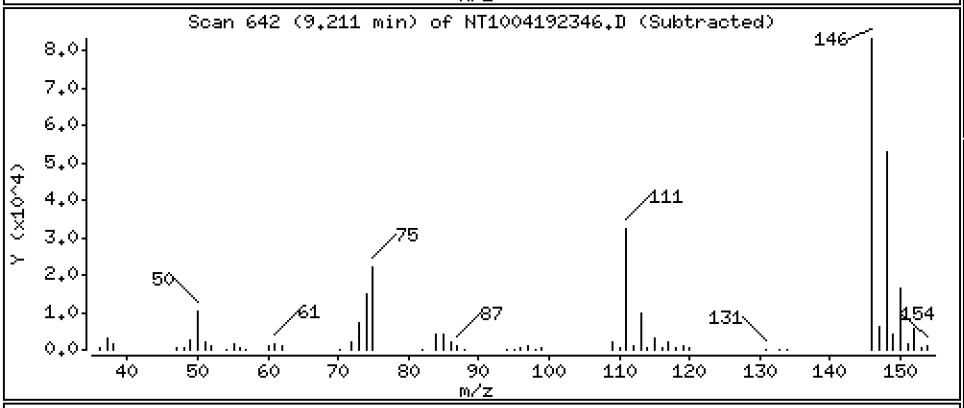
Column diameter: 0.25

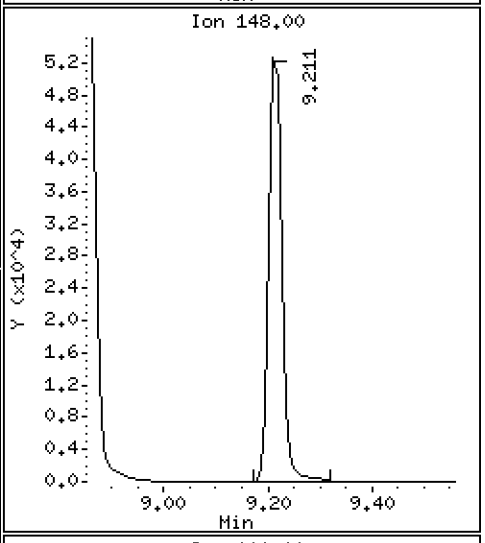
12 1,2-Dichlorobenzene

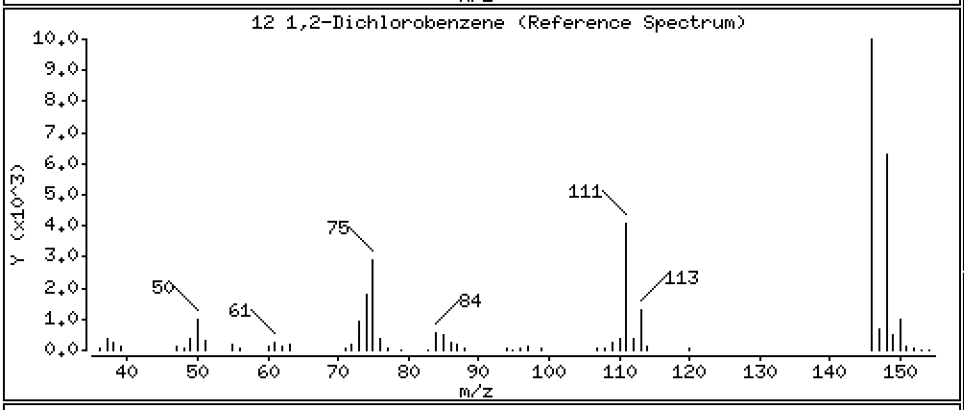
Concentration: 3.212 ug/mL

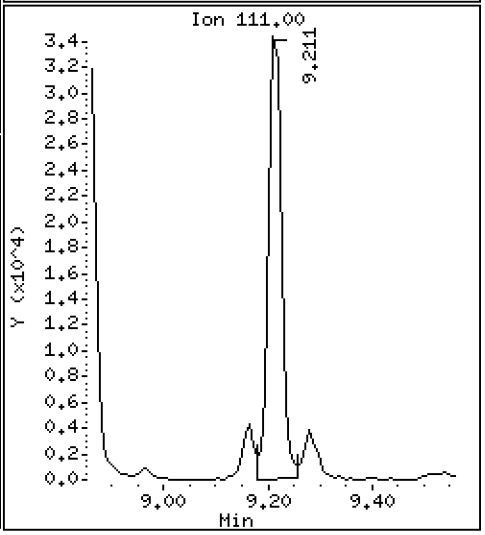


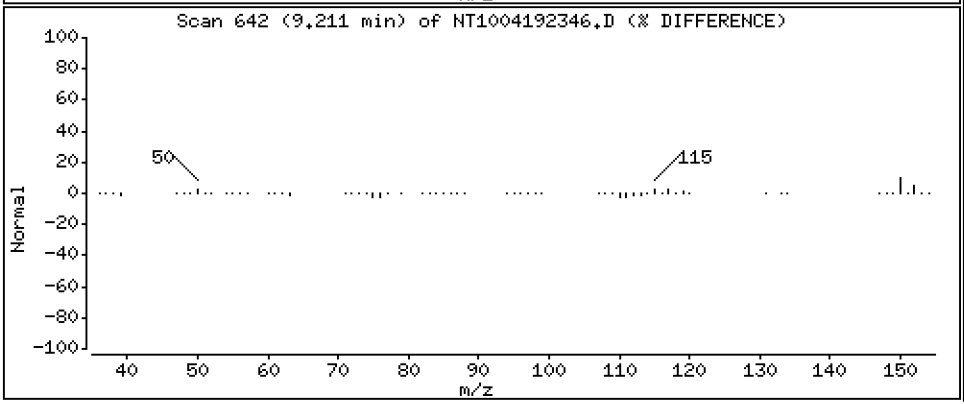












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

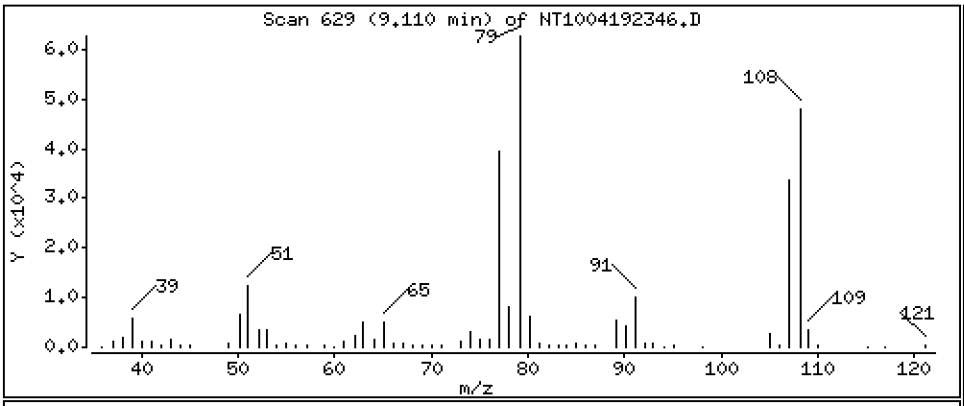
Operator: VTS

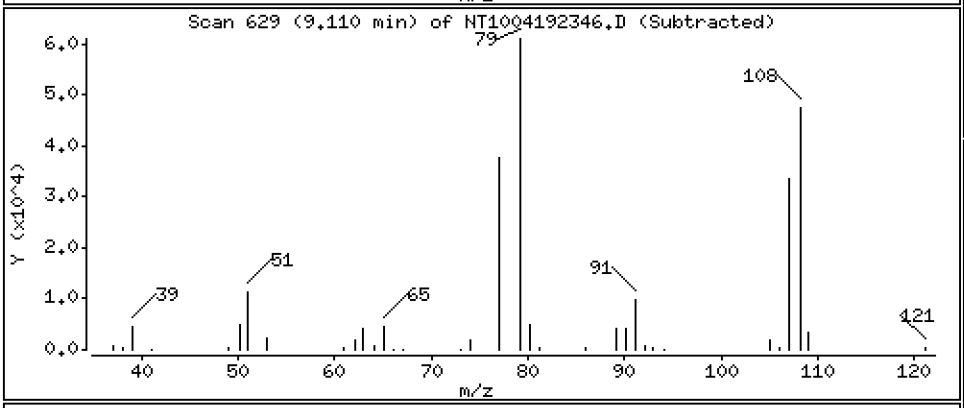
Column phase: ZB-5msi

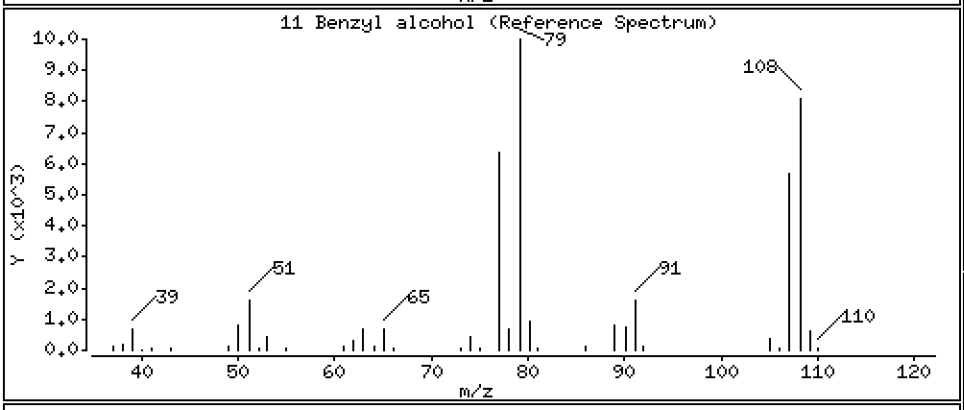
Column diameter: 0.25

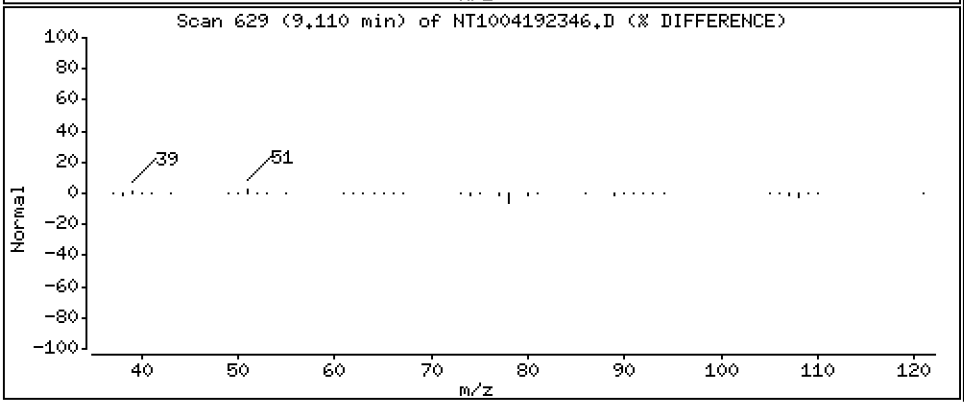
11 Benzyl alcohol

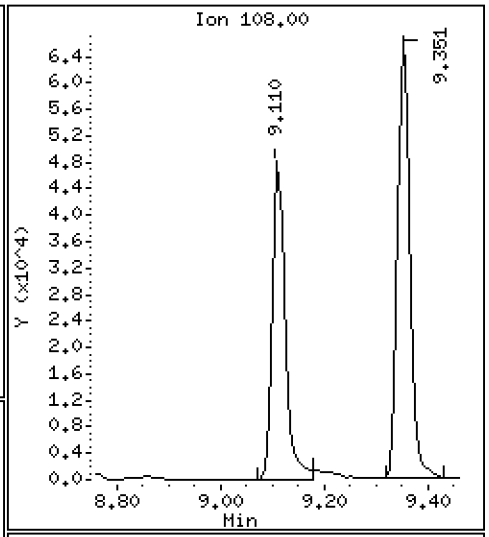
Concentration: 3.361 ug/mL

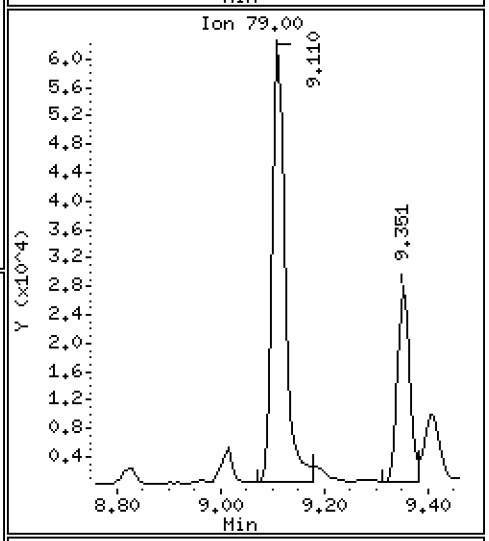


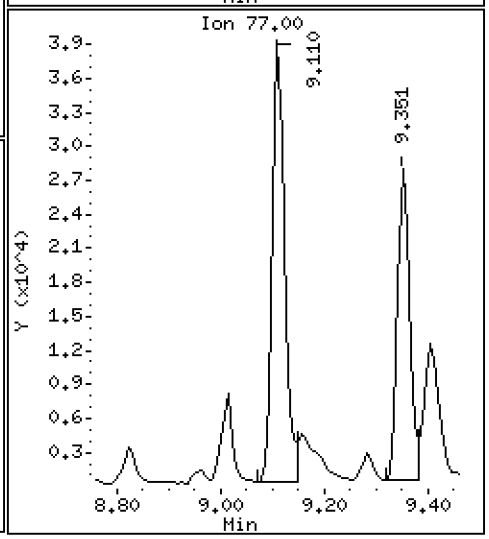












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

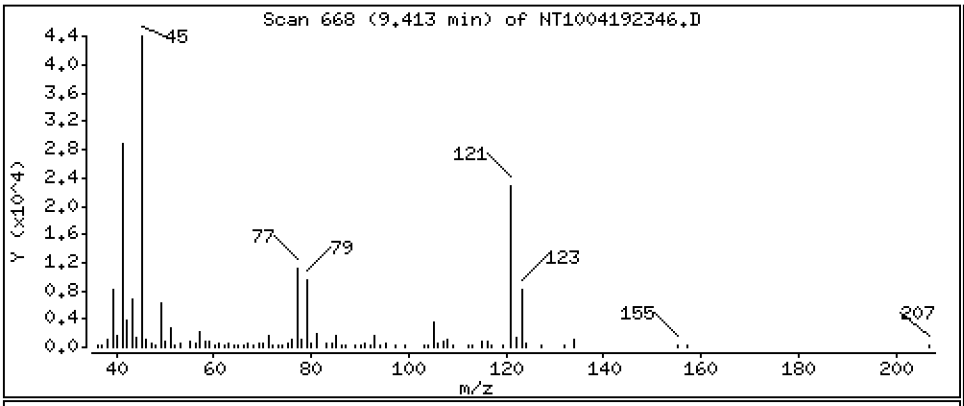
Operator: VTS

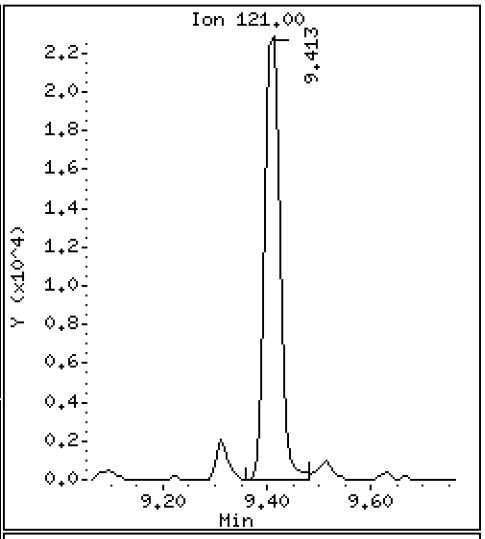
Column phase: ZB-5msi

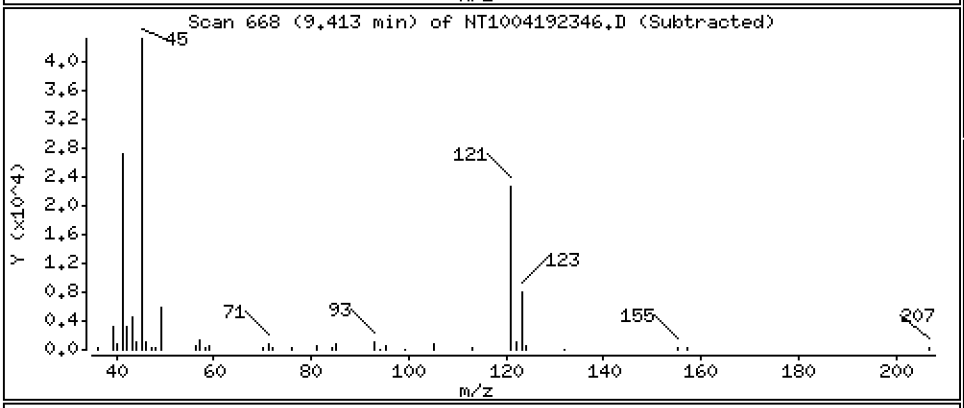
Column diameter: 0.25

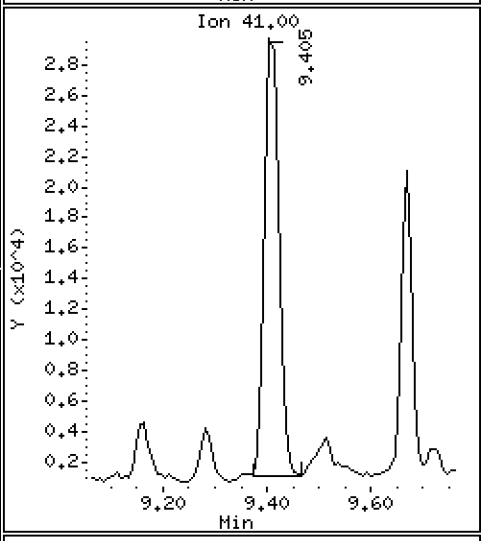
14 2,2'-oxybis(1-Chloropropane)

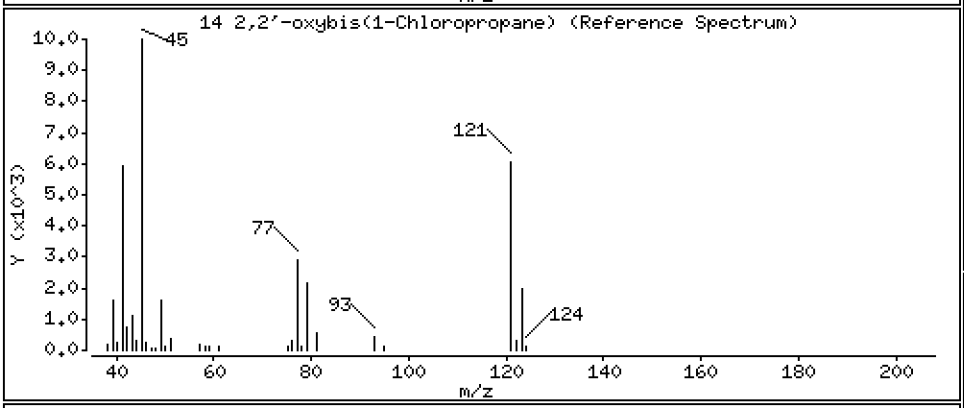
Concentration: 3.585 ug/mL

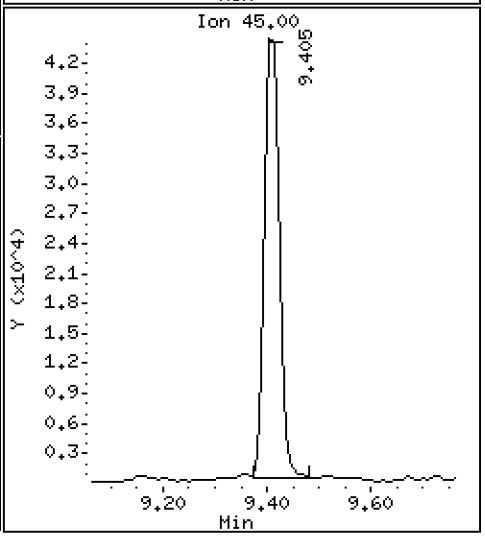


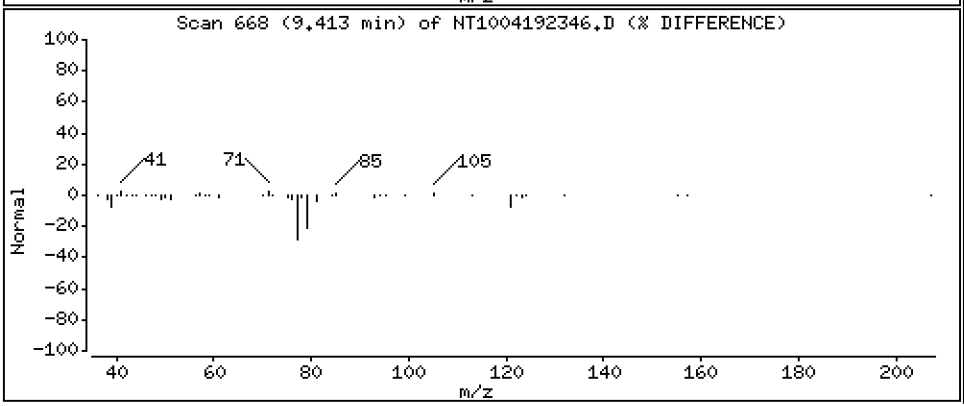












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

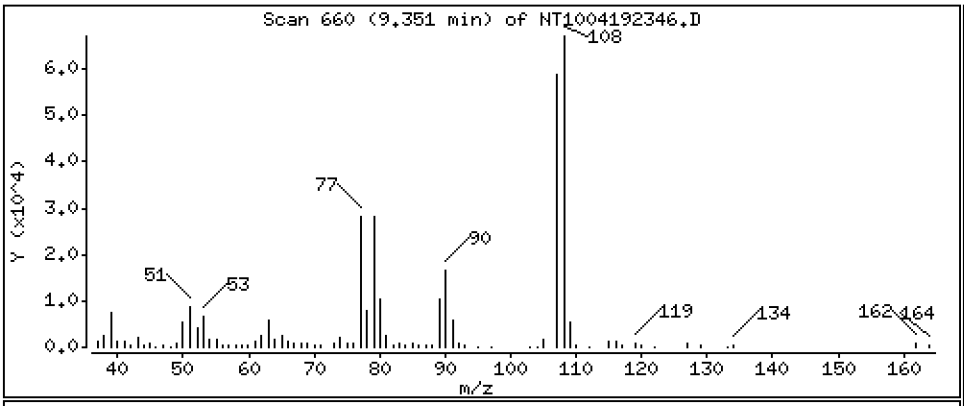
Operator: VTS

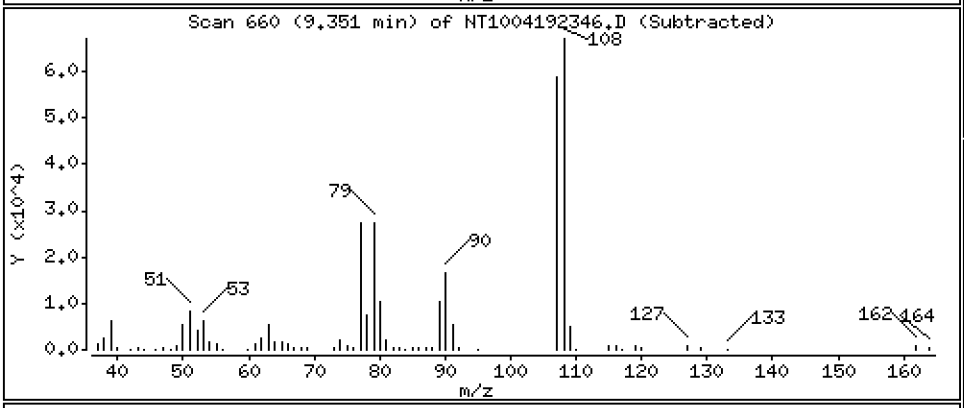
Column phase: ZB-5msi

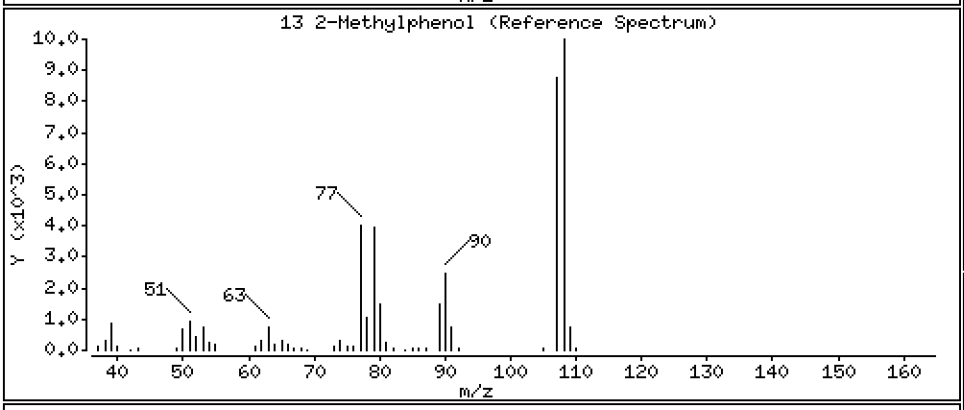
Column diameter: 0.25

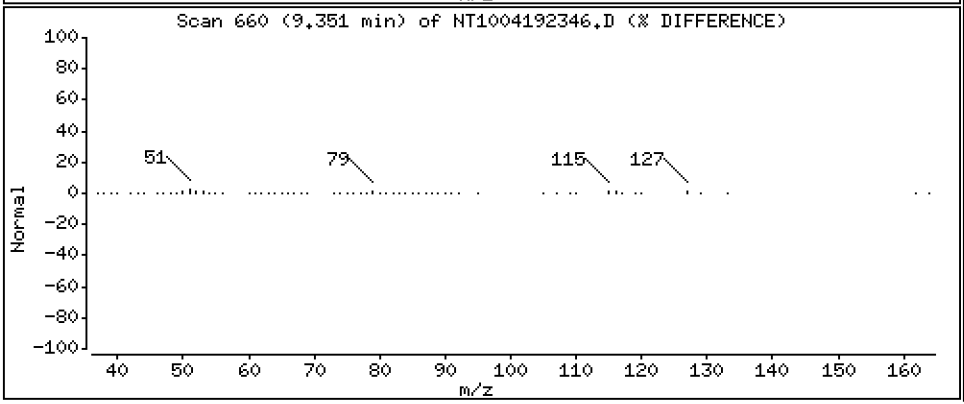
13 2-Methylphenol

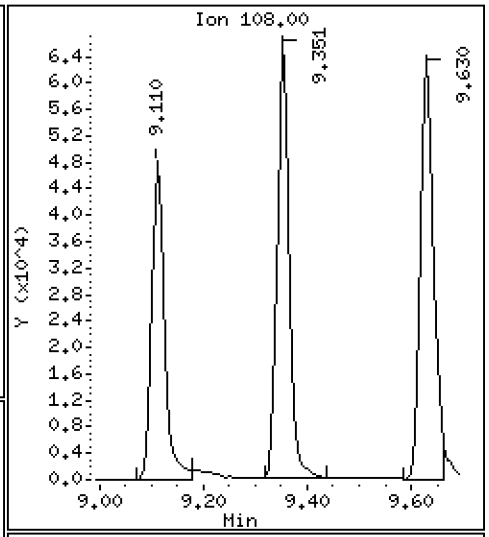
Concentration: 2.861 ug/mL

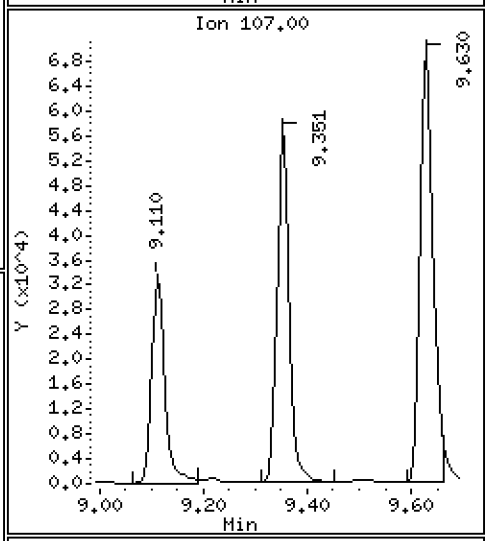


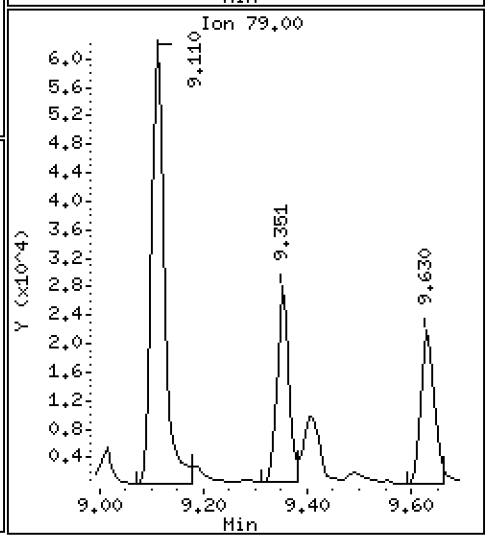












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192346.D

Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

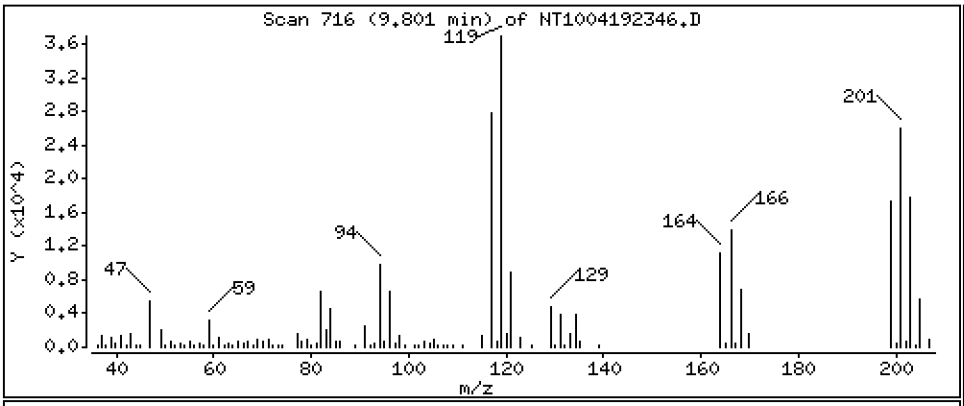
Operator: VTS

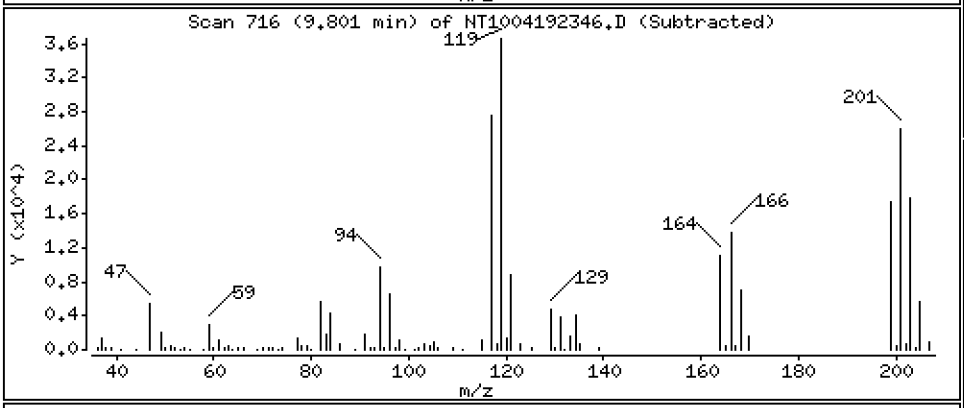
Column phase: ZB-5msi

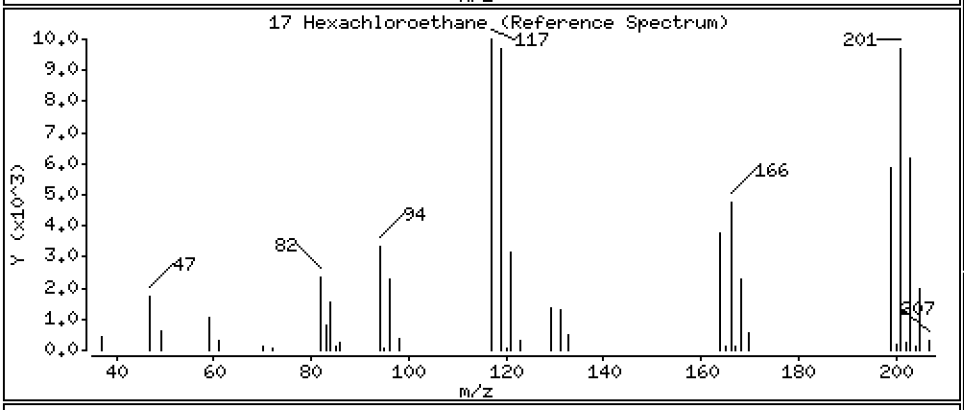
Column diameter: 0.25

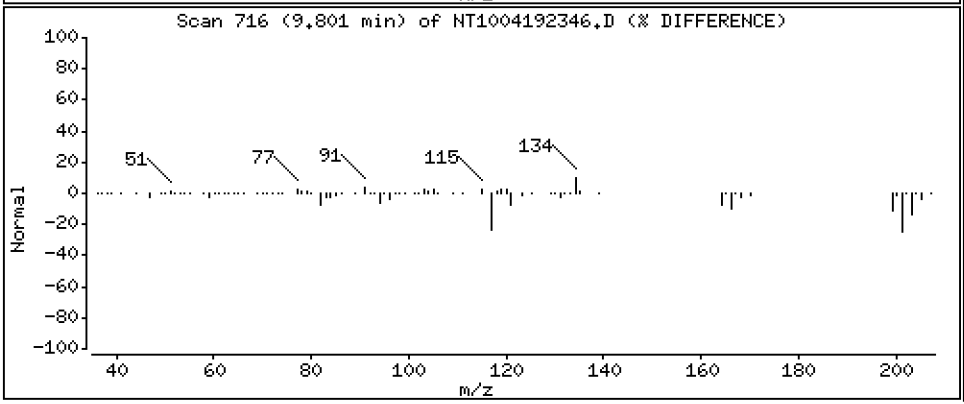
17 Hexachloroethane

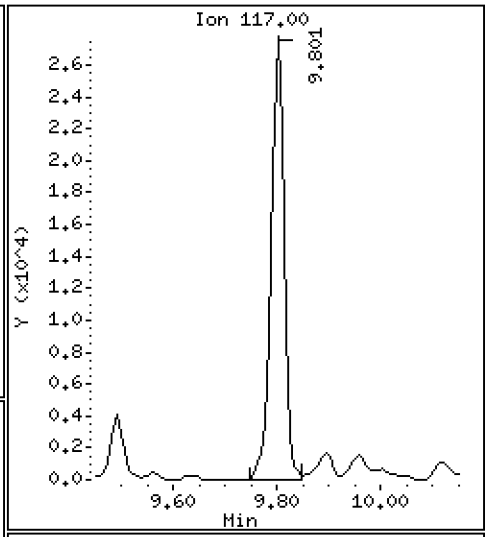
Concentration: 2.574 ug/mL

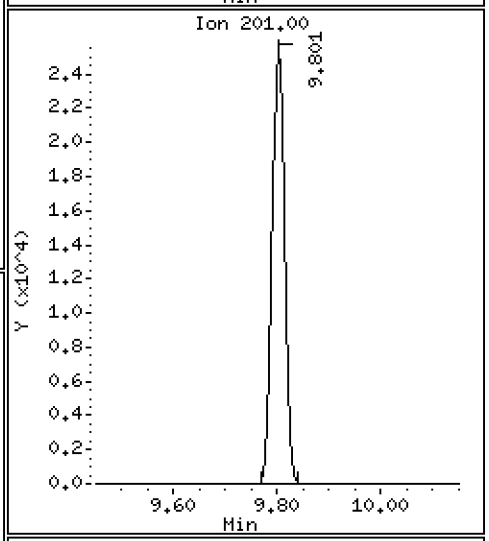


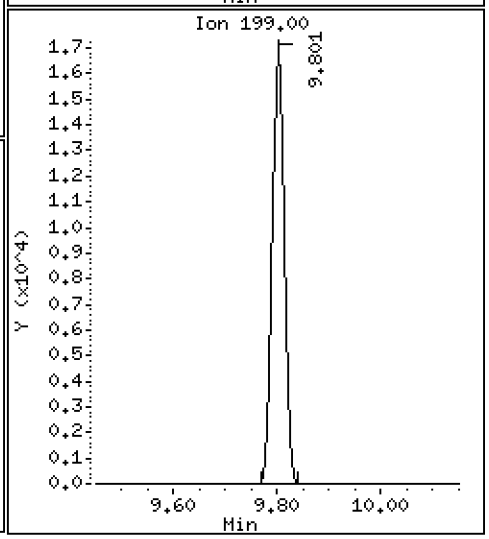












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

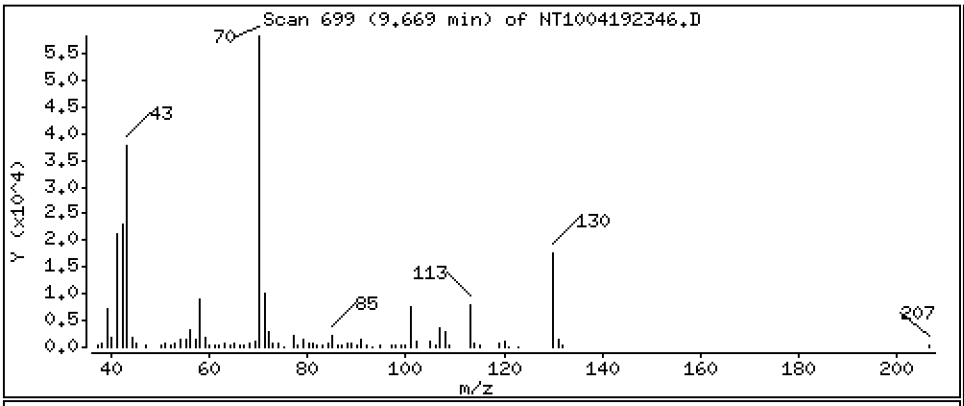
Operator: VTS

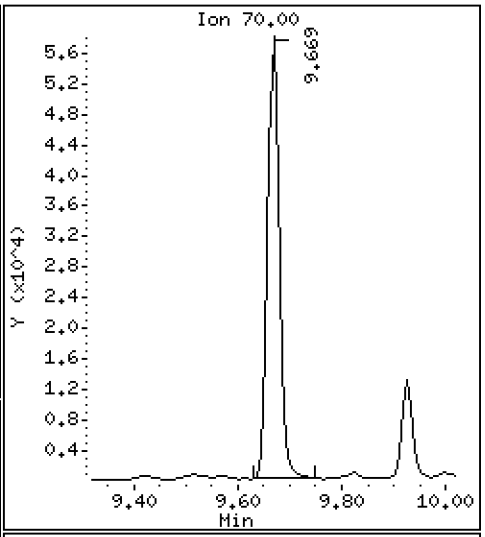
Column phase: ZB-5msi

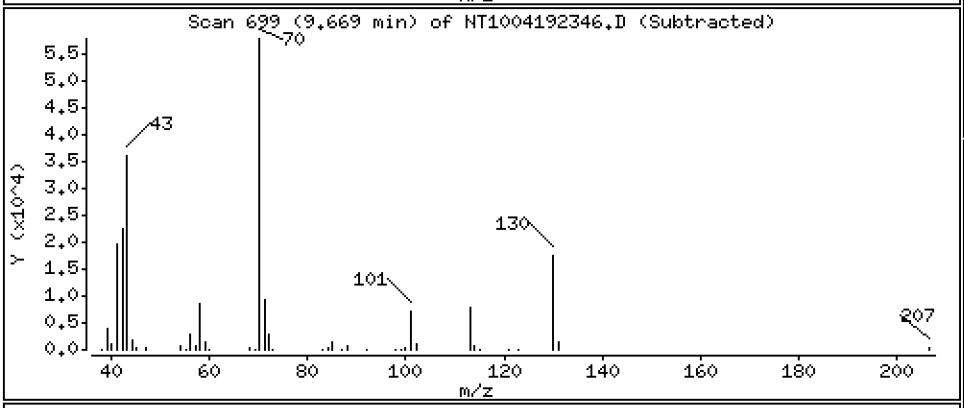
Column diameter: 0.25

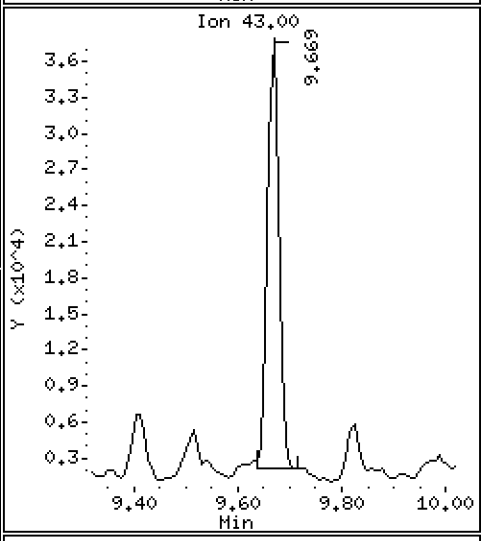
16 N-Nitroso-di-n-propylamine

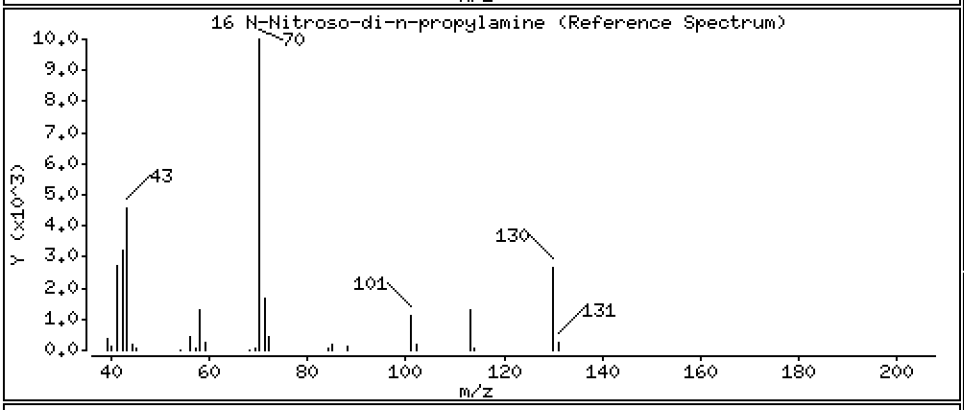
Concentration: 2.999 ug/mL

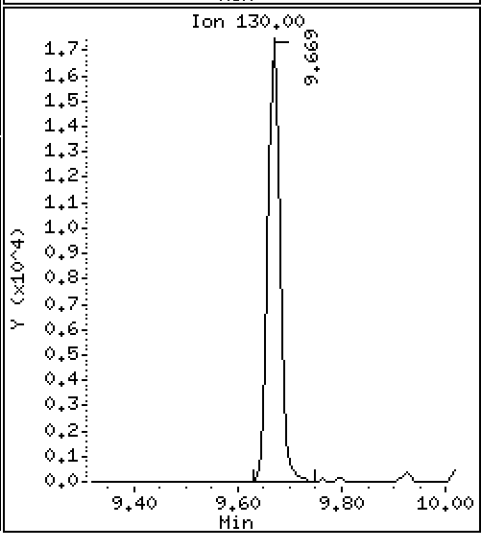


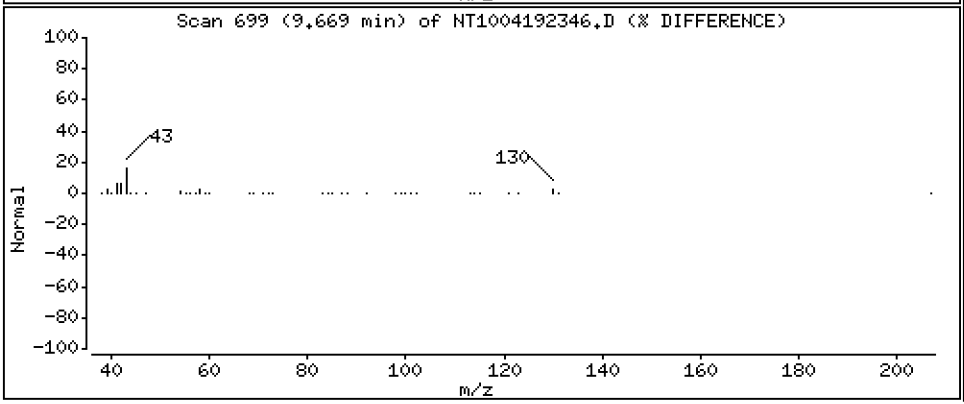












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

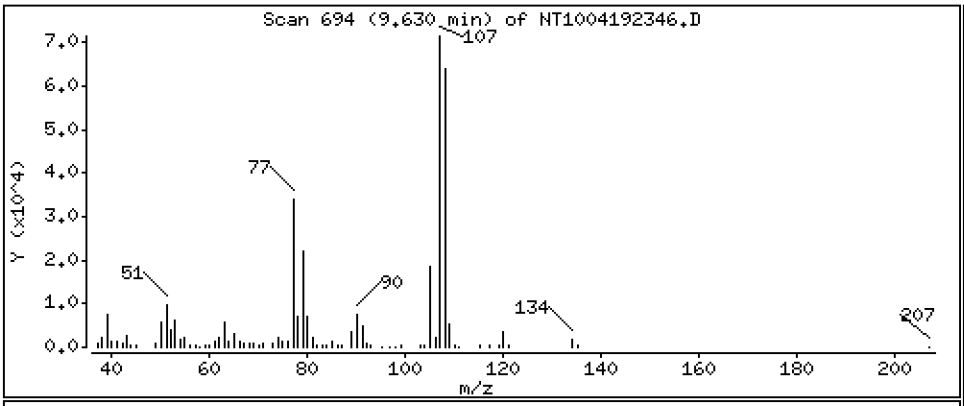
Operator: VTS

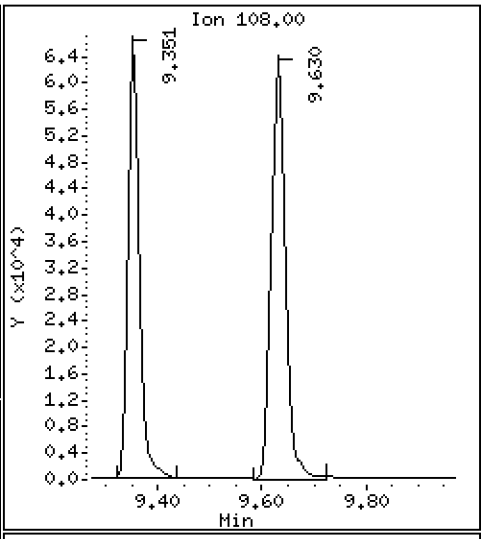
Column phase: ZB-5msi

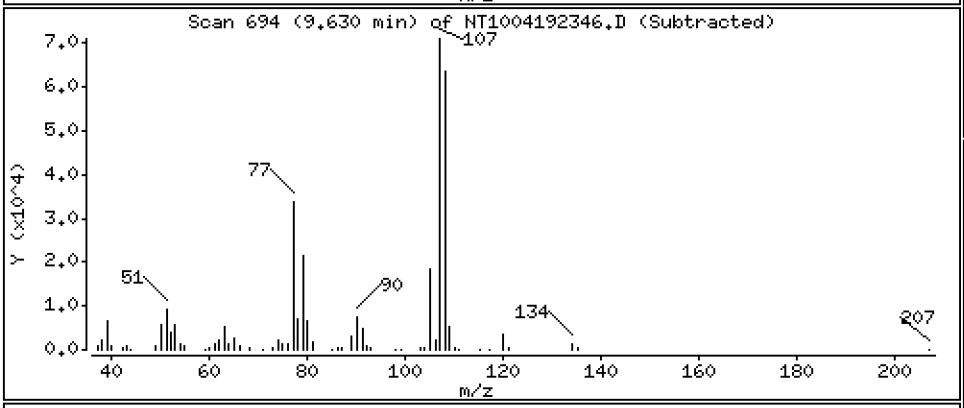
Column diameter: 0.25

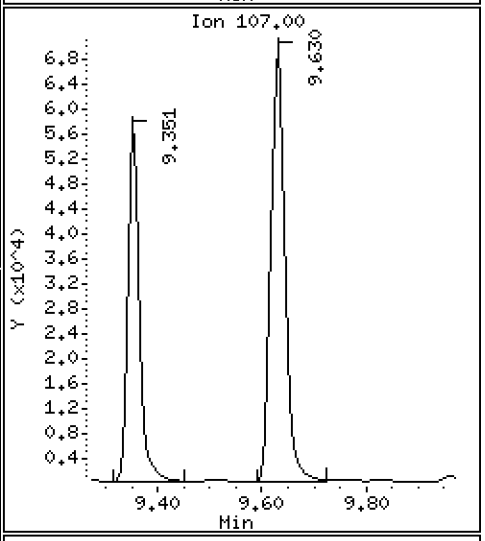
15 4-Methylphenol

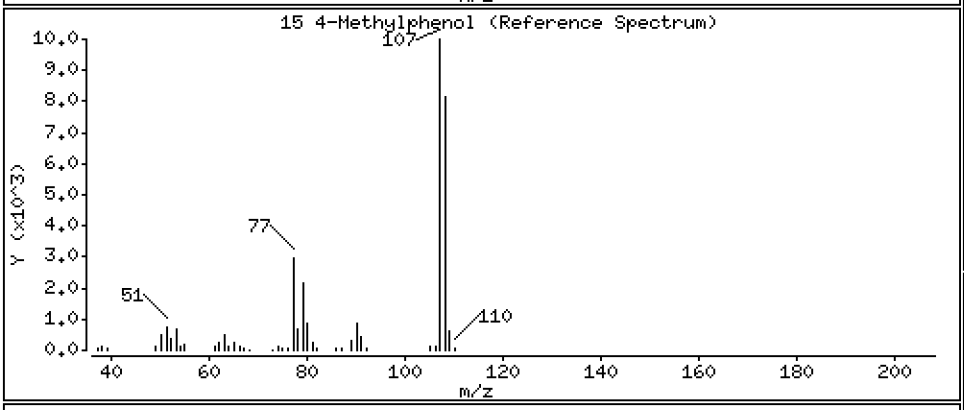
Concentration: 3.118 ug/mL

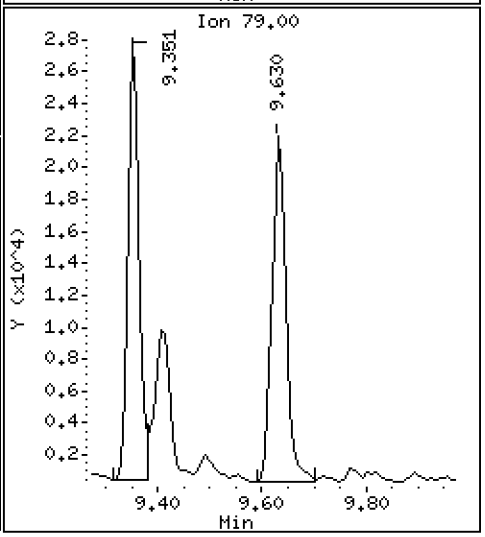


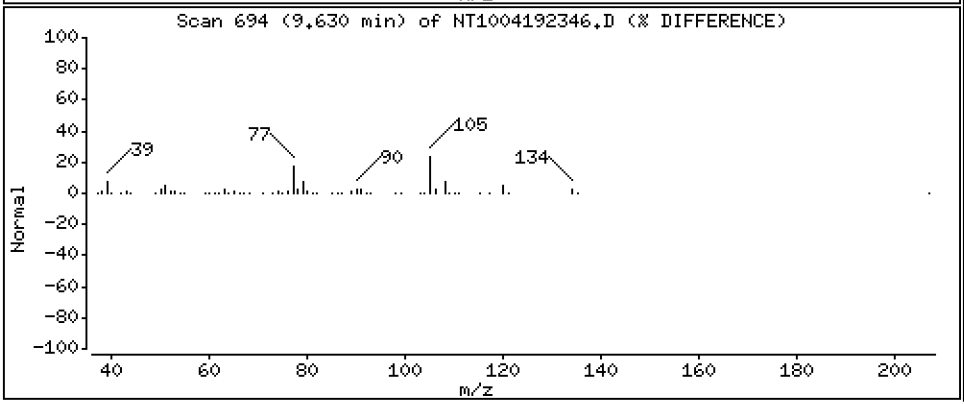












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

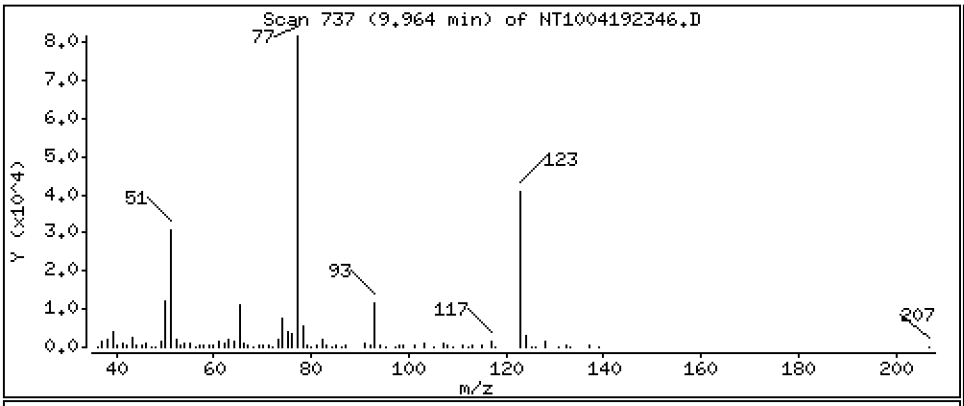
Operator: VTS

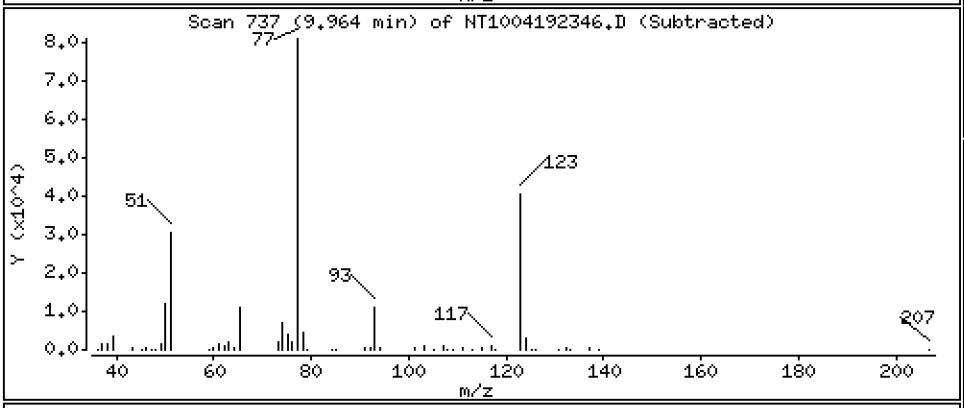
Column phase: ZB-5msi

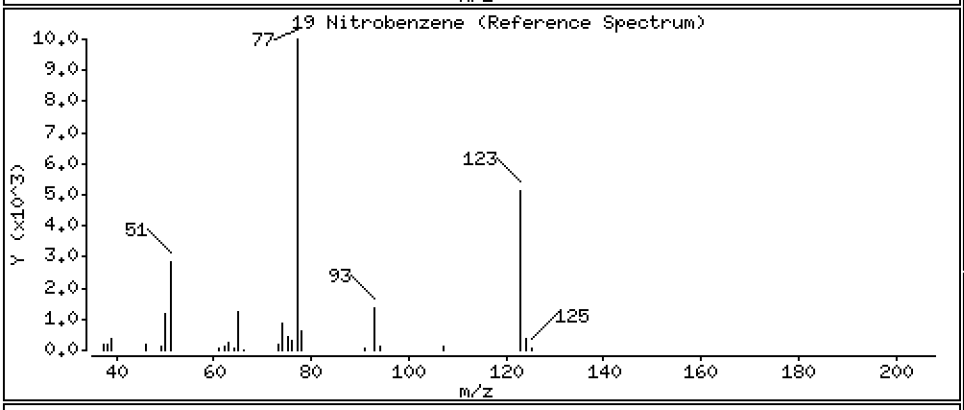
Column diameter: 0.25

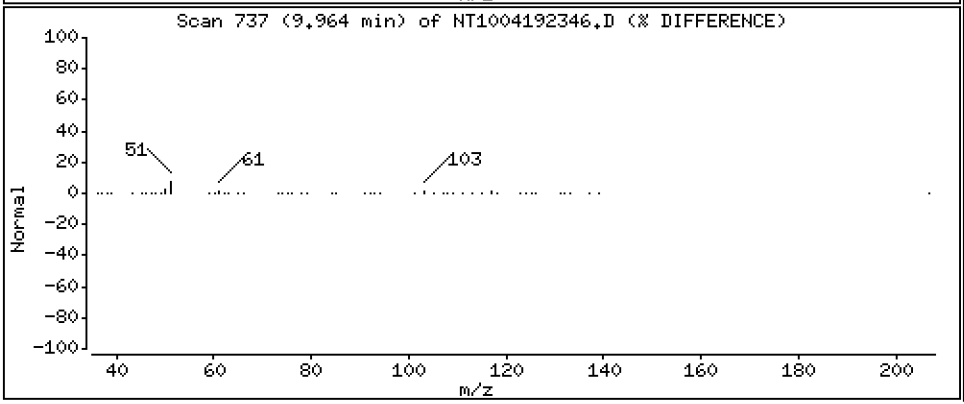
19 Nitrobenzene

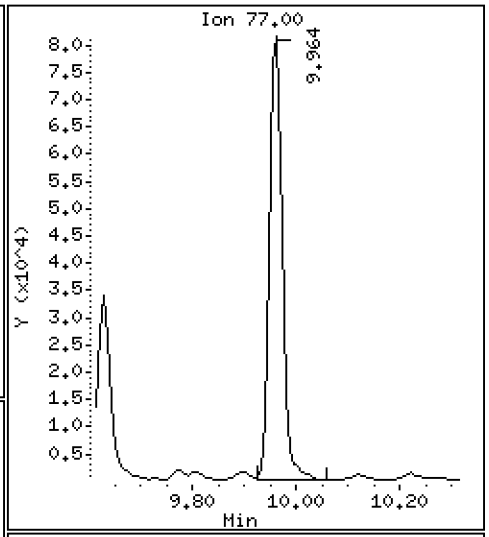
Concentration: 2.987 ug/mL

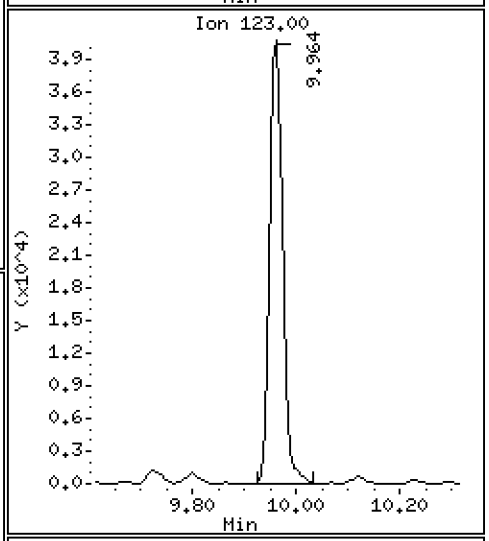


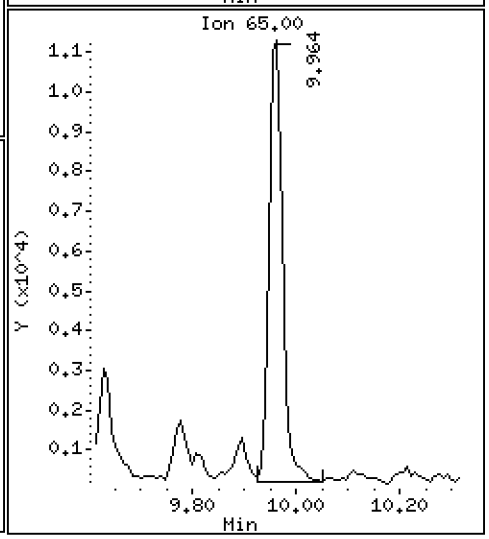












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

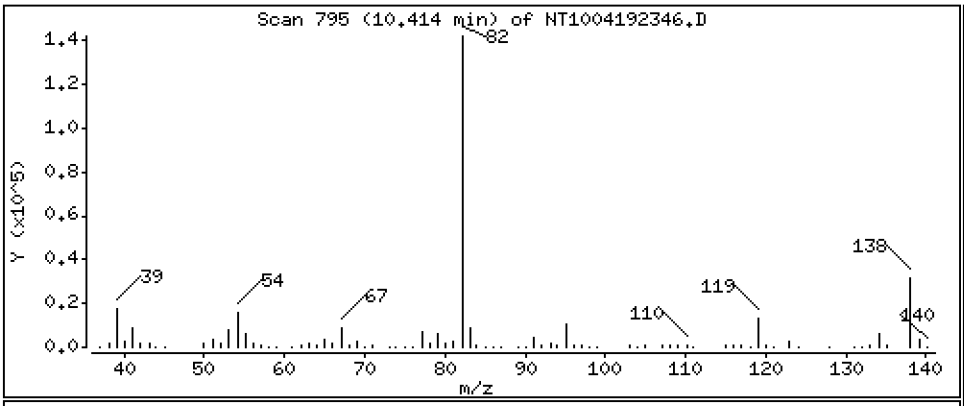
Operator: VTS

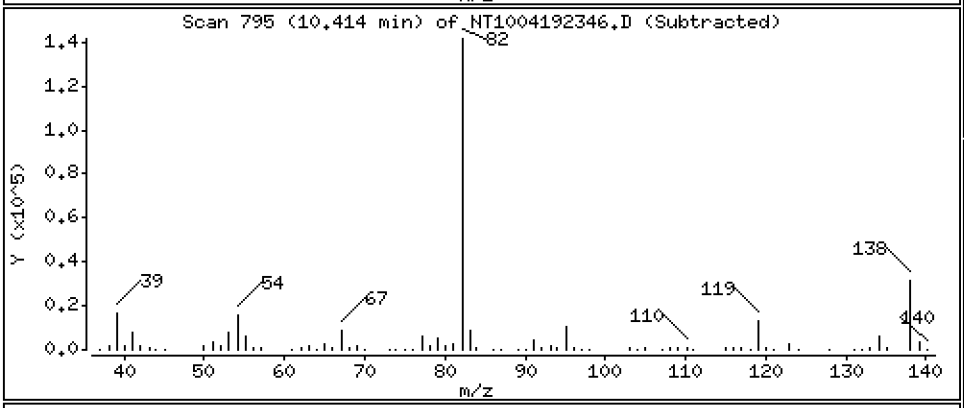
Column phase: ZB-5msi

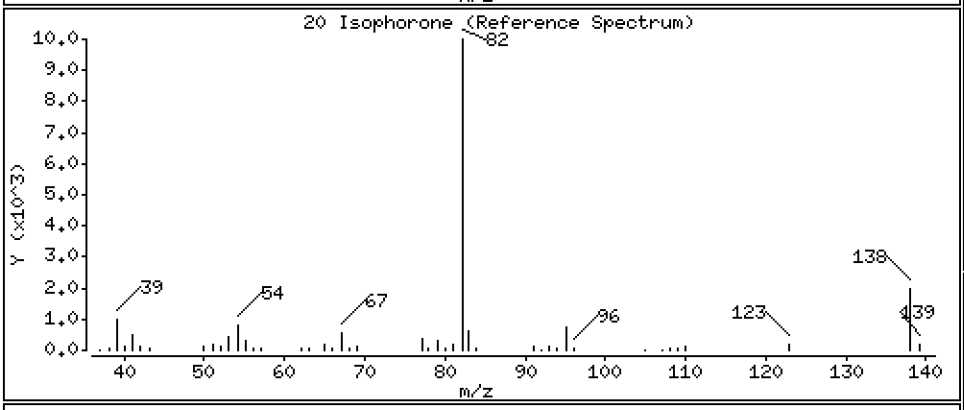
Column diameter: 0.25

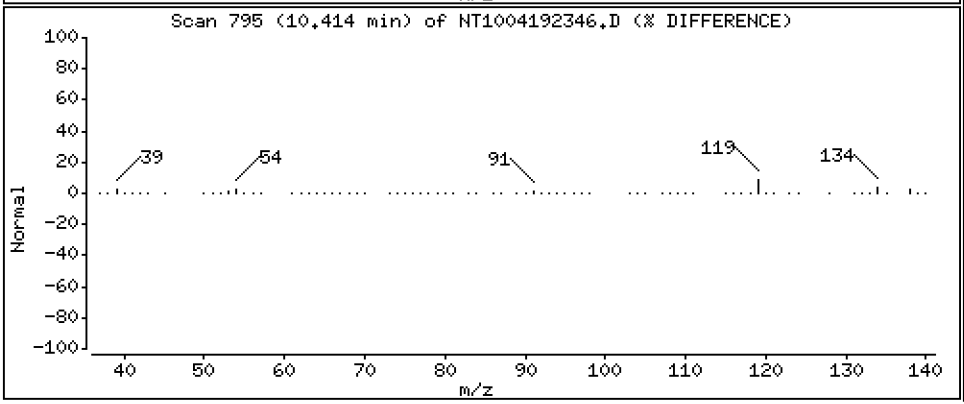
20 Isophorone

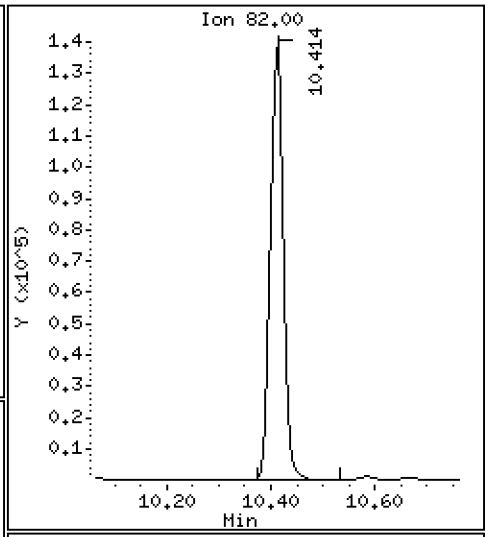
Concentration: 4.564 ug/mL

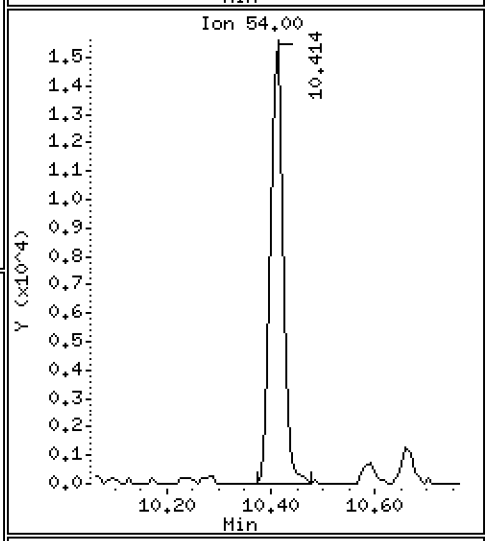


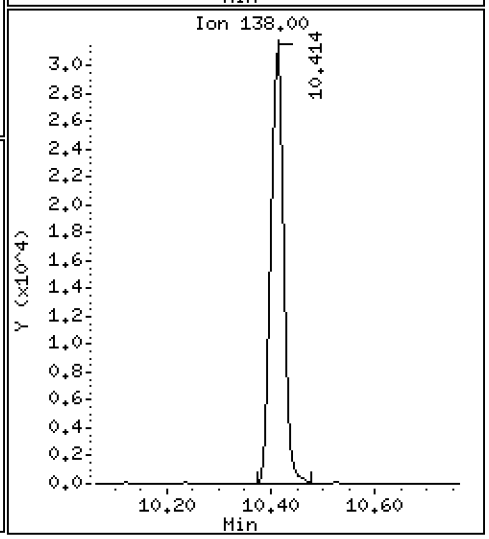












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

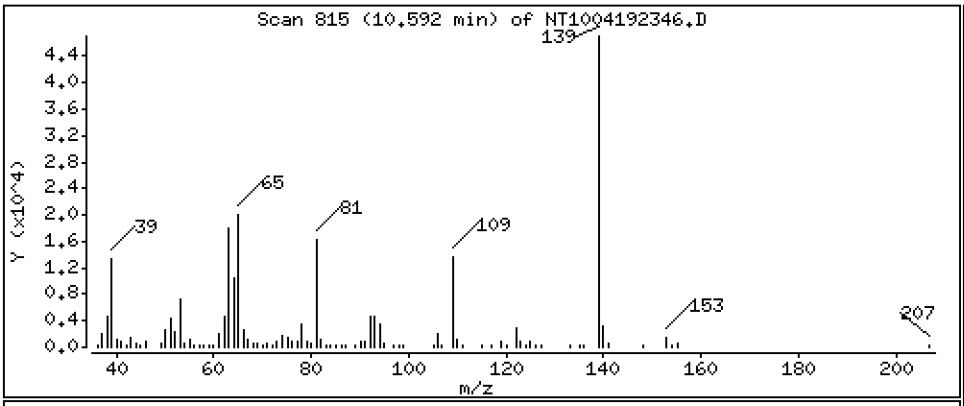
Operator: VTS

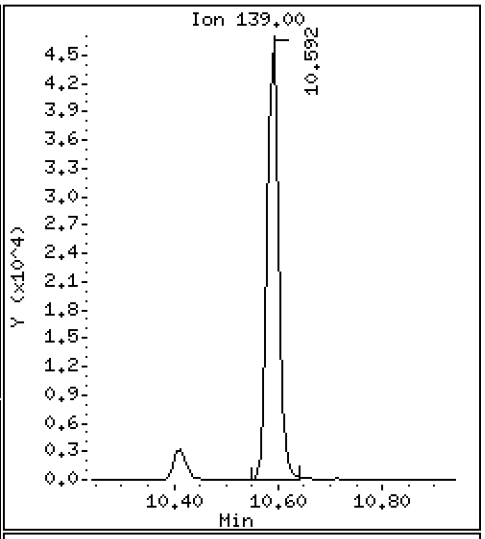
Column phase: ZB-5msi

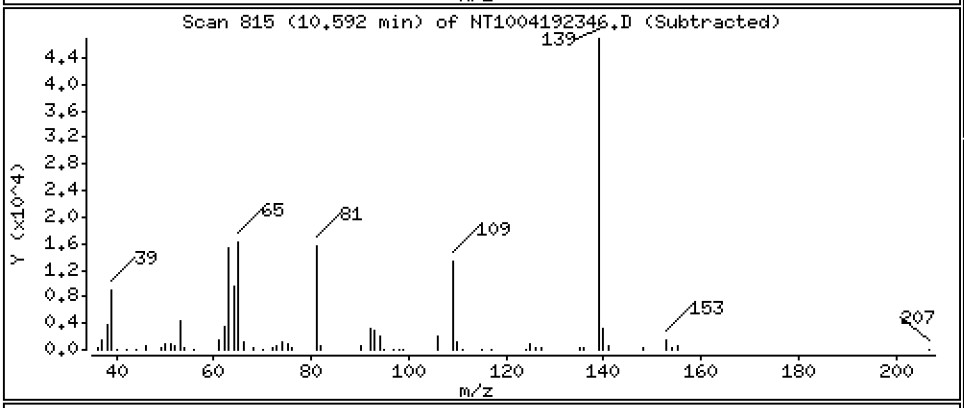
Column diameter: 0.25

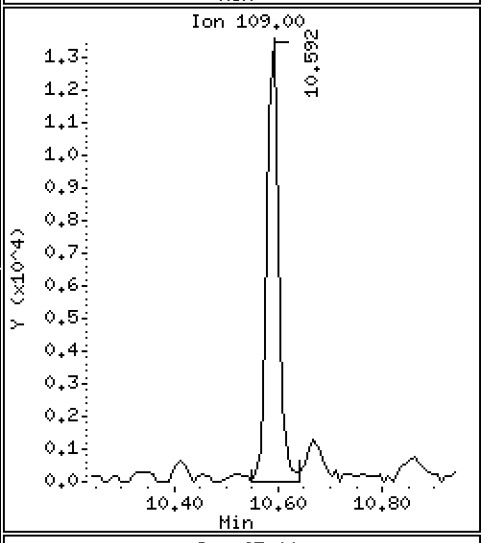
21 2-Nitrophenol

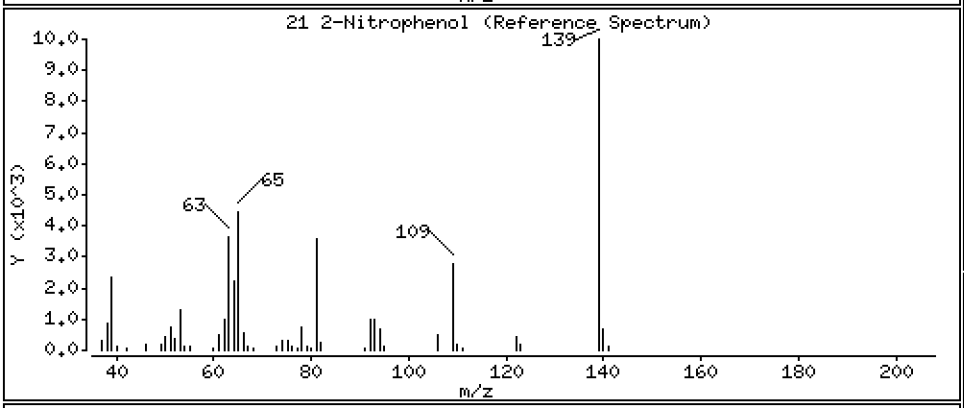
Concentration: 3.259 ug/mL

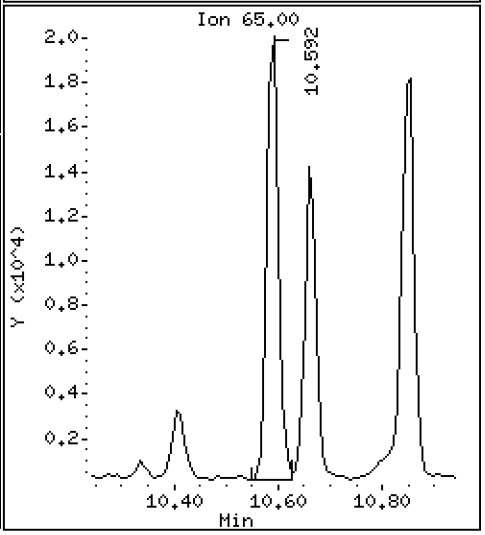


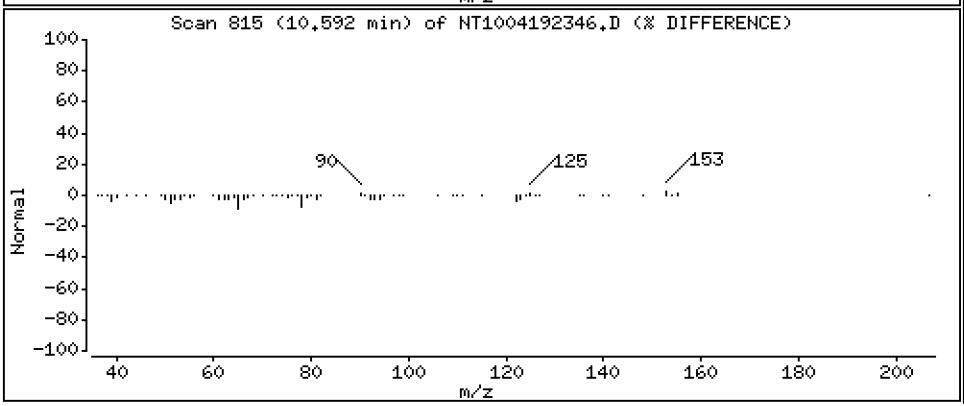












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

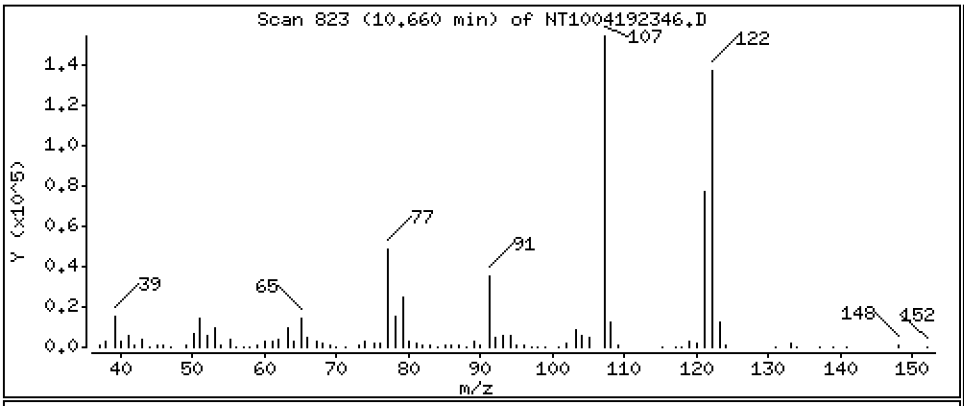
Operator: VTS

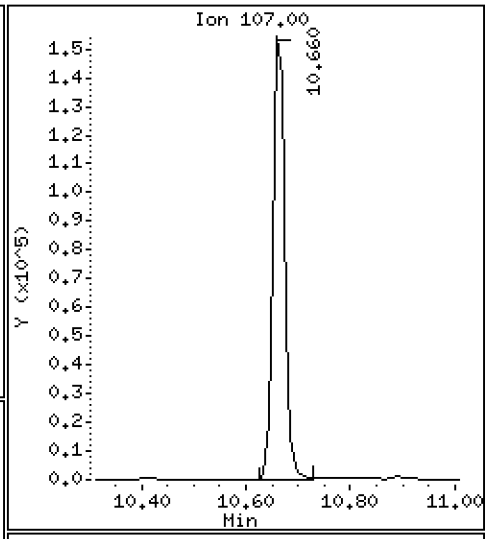
Column phase: ZB-5msi

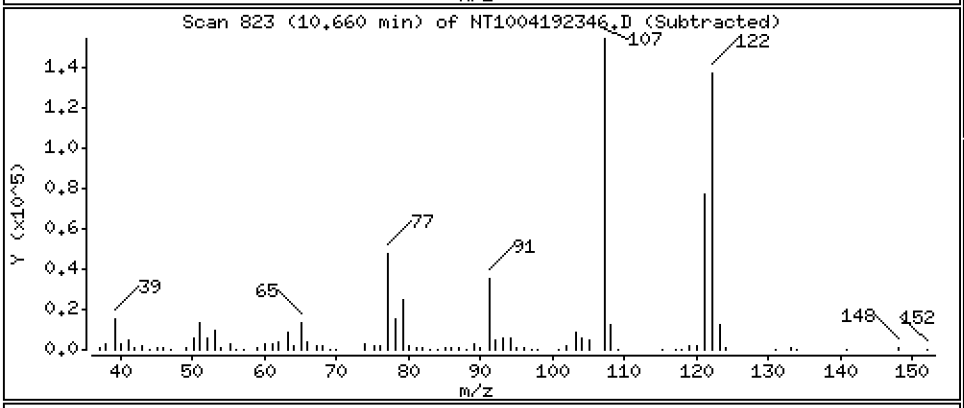
Column diameter: 0.25

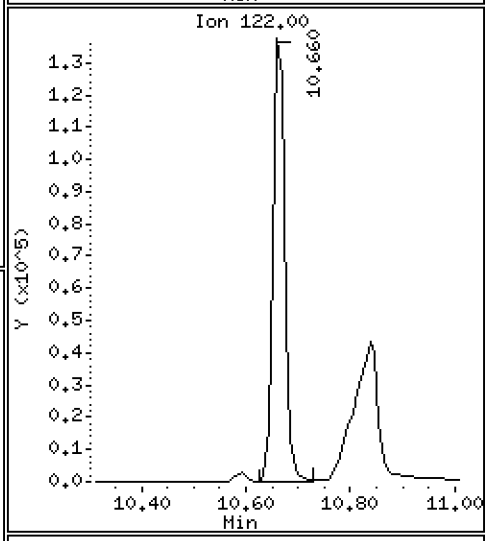
22 2,4-Dimethylphenol

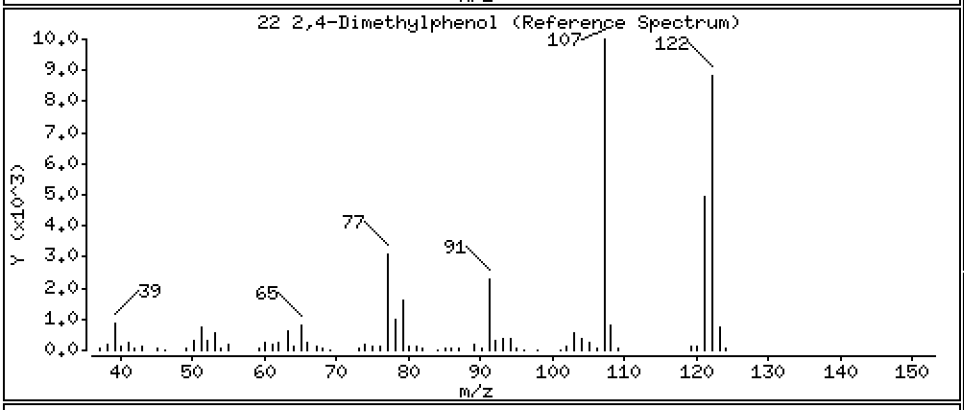
Concentration: 5.831 ug/mL

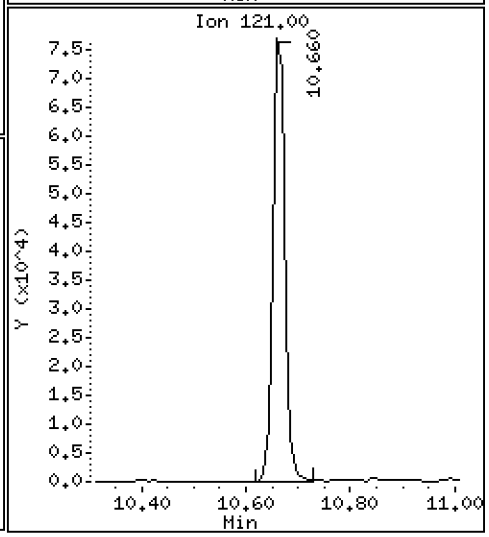


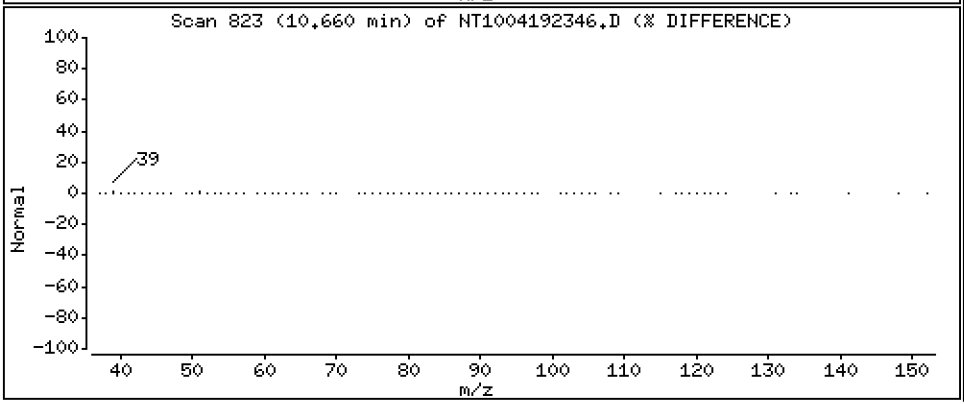












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192346.D

Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

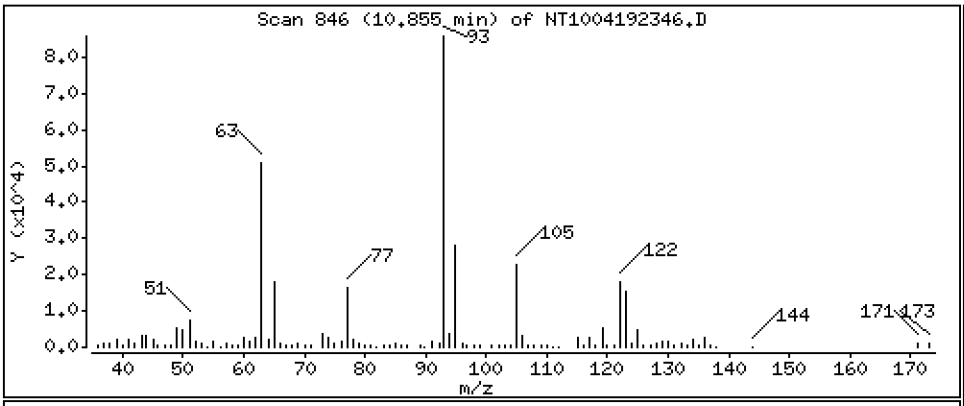
Operator: VTS

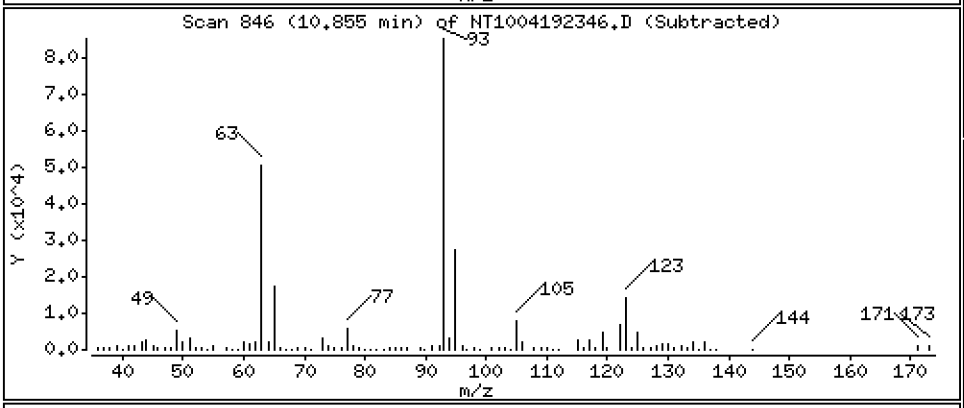
Column phase: ZB-5msi

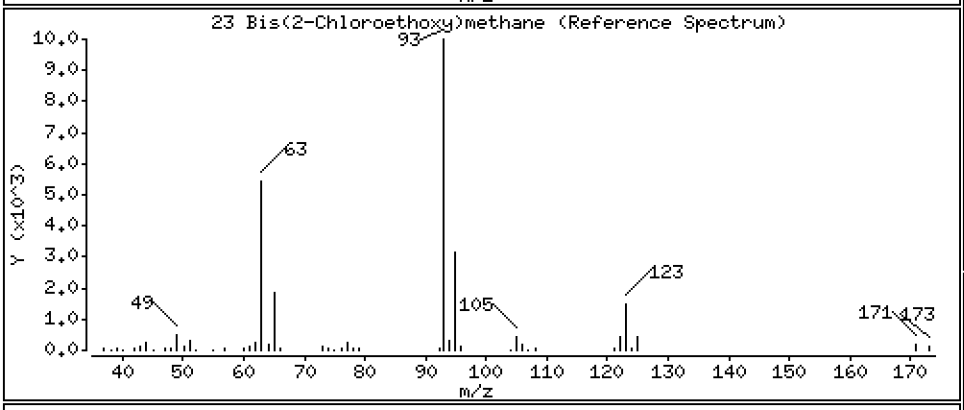
Column diameter: 0.25

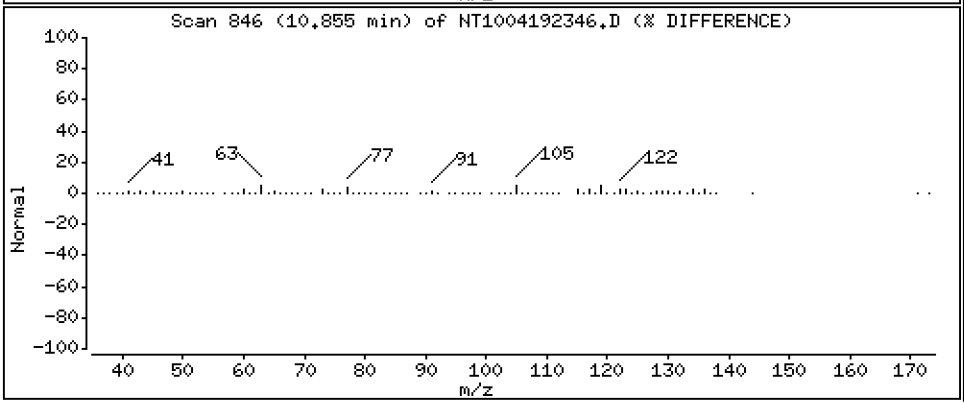
23 Bis(2-Chloroethoxy)methane

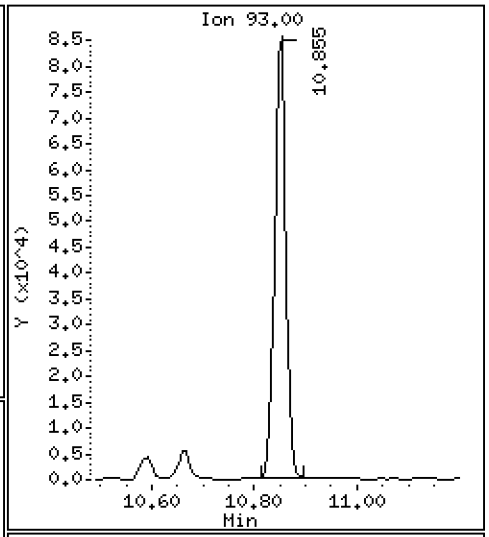
Concentration: 3.483 ug/mL

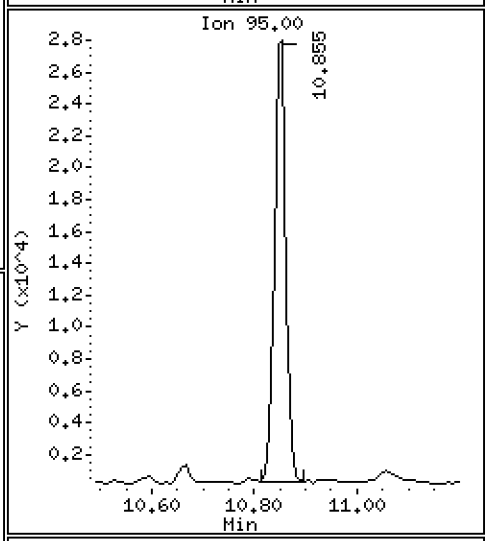


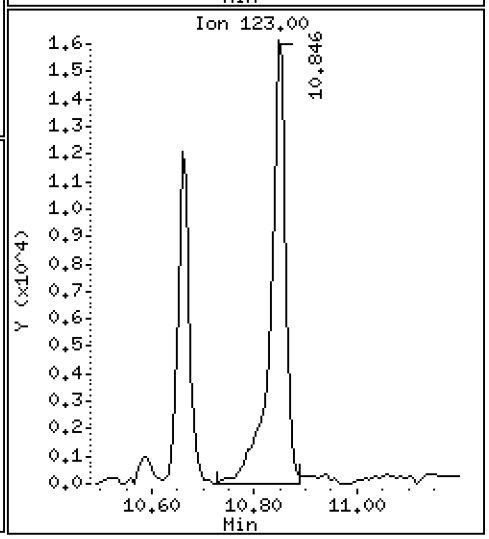












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

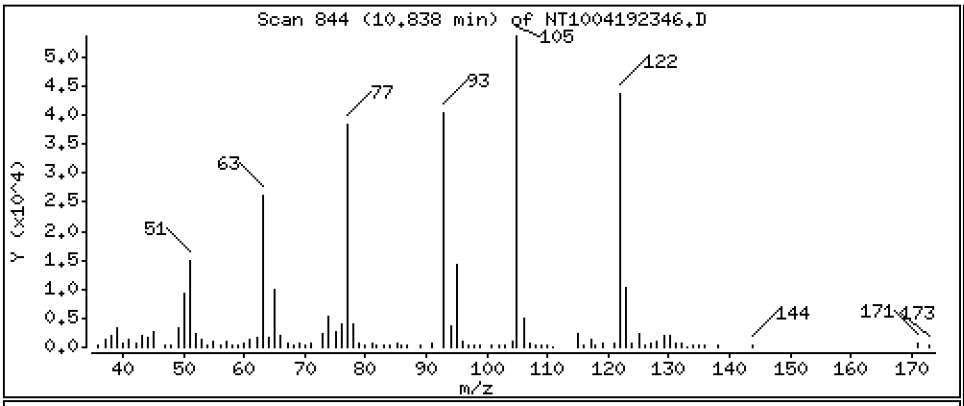
Operator: VTS

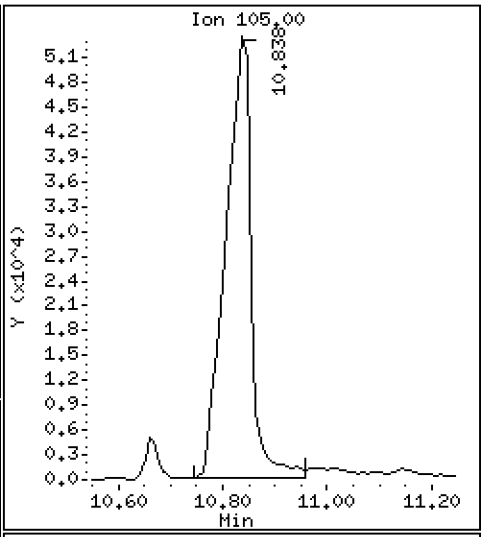
Column phase: ZB-5msi

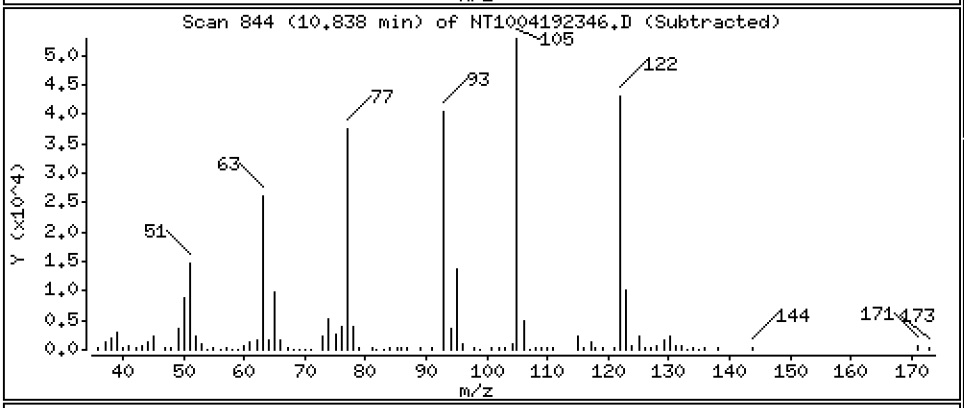
Column diameter: 0.25

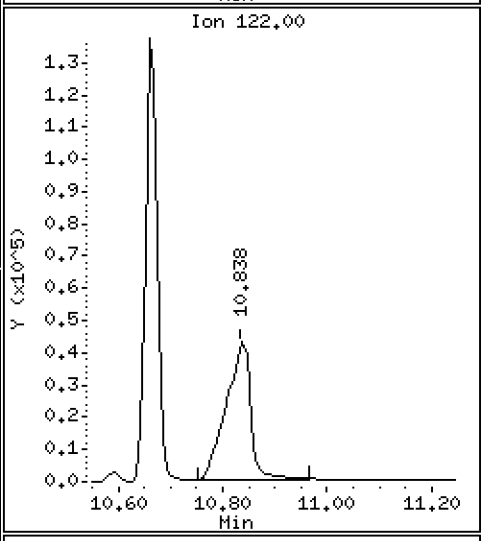
24 Benzoic acid

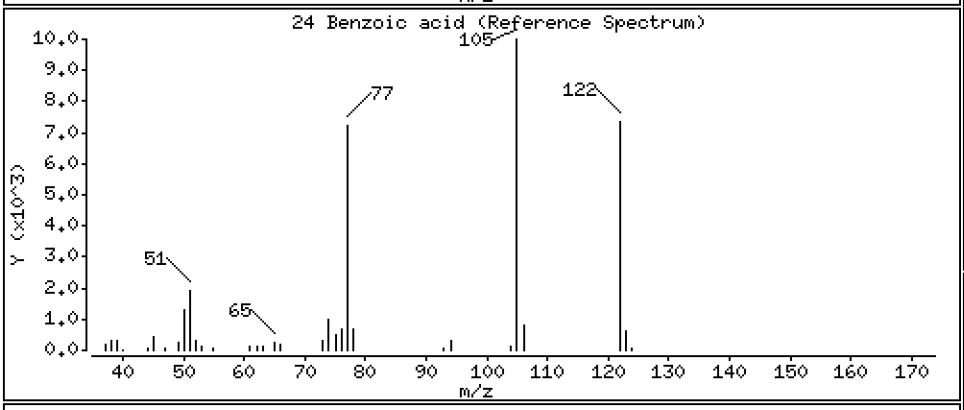
Concentration: 7.831 ug/mL

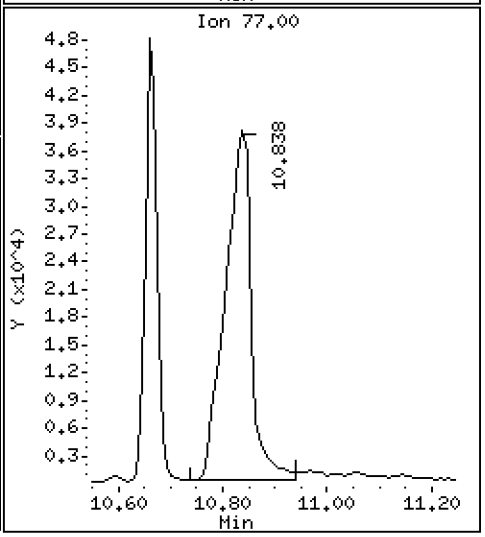


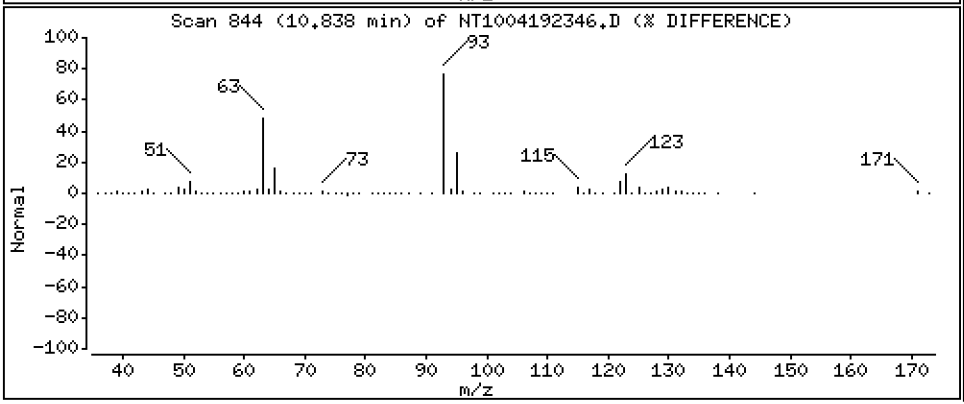












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

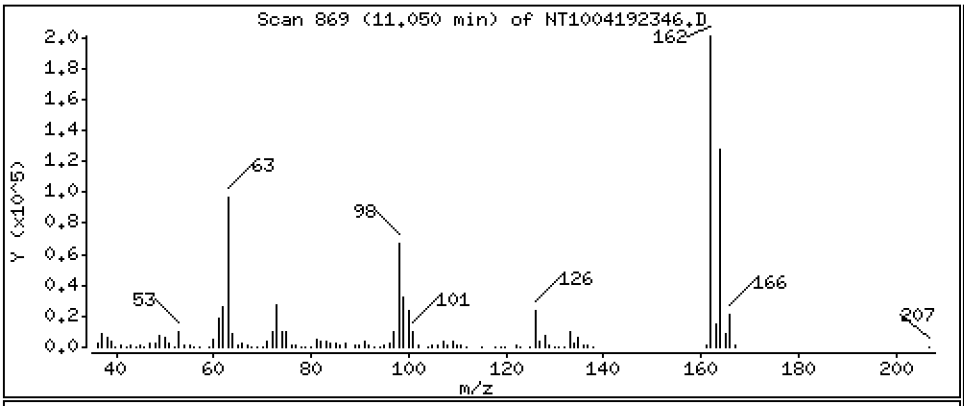
Operator: VTS

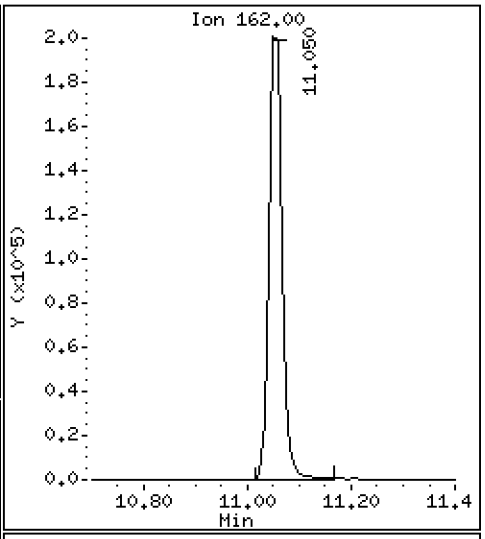
Column phase: ZB-5msi

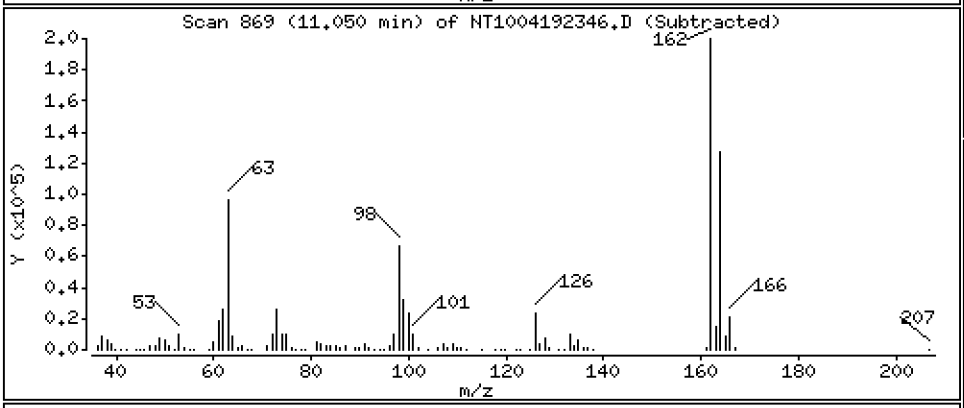
Column diameter: 0.25

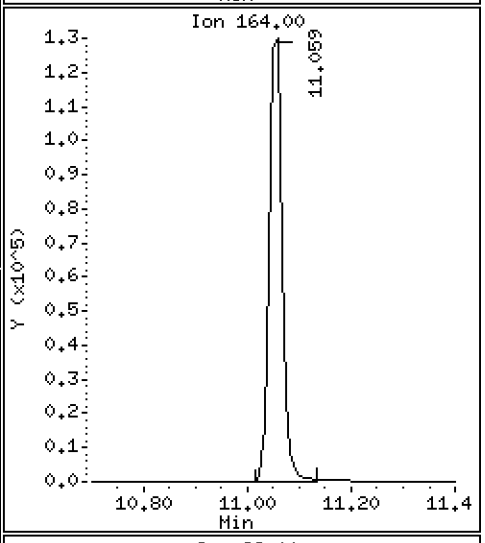
25 2,4-Dichlorophenol

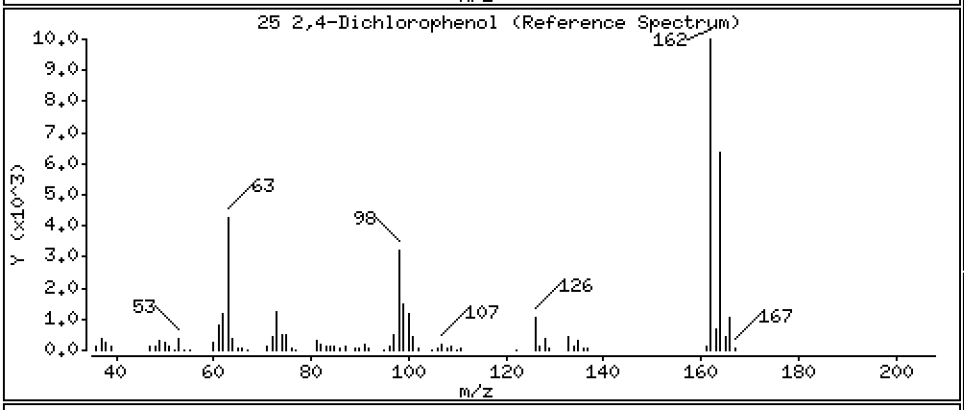
Concentration: 11.96 ug/mL

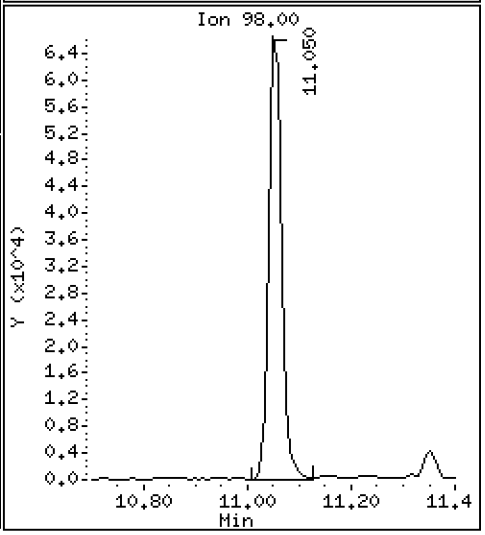


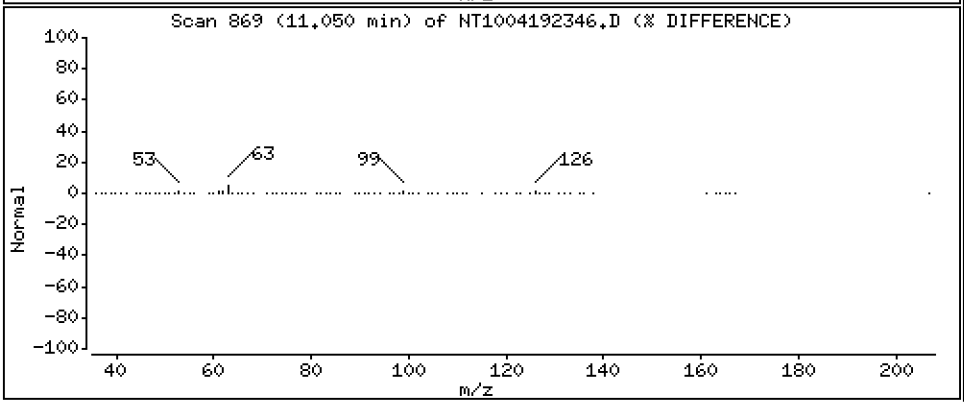












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

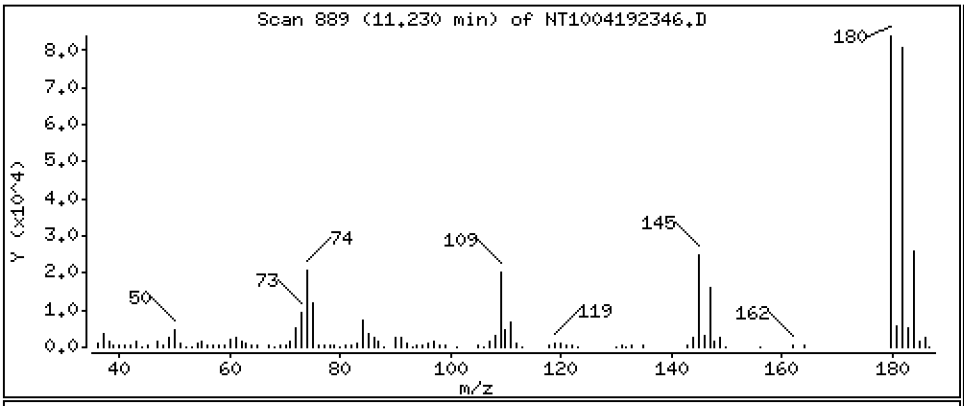
Operator: VTS

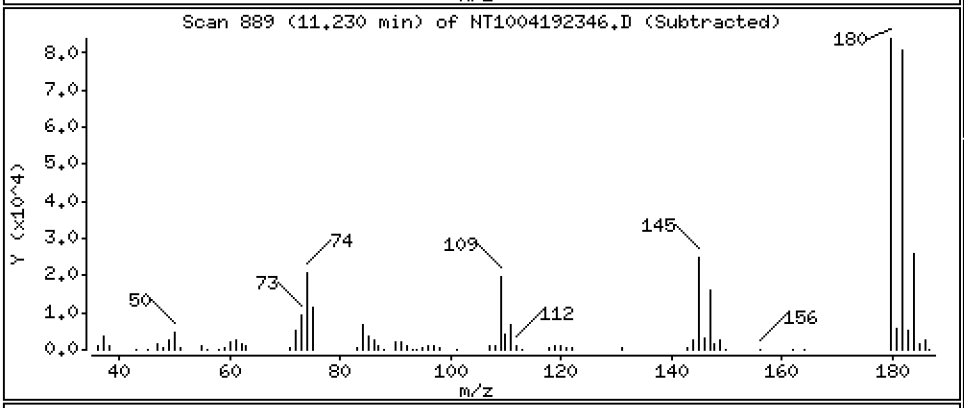
Column phase: ZB-5msi

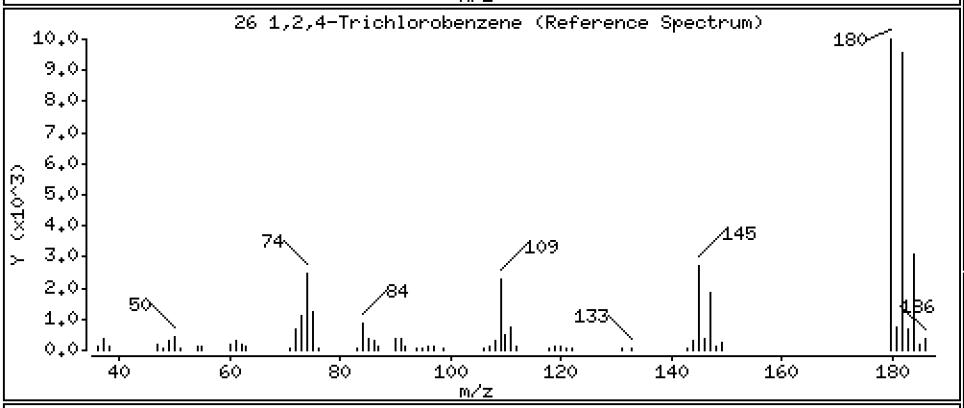
Column diameter: 0.25

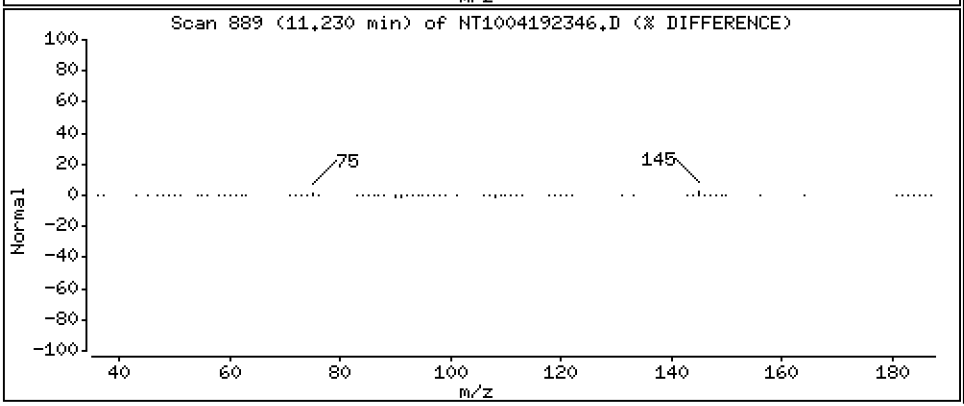
26 1,2,4-Trichlorobenzene

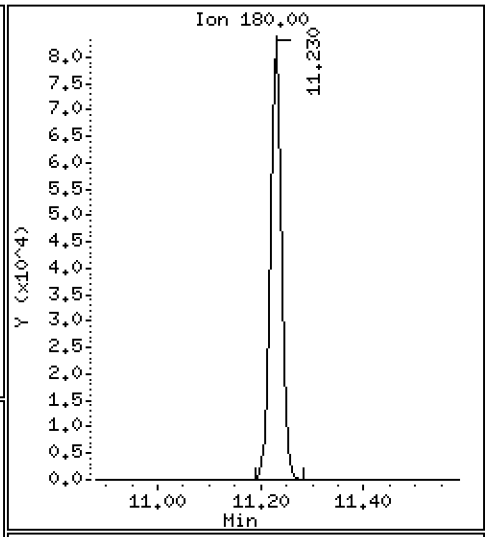
Concentration: 3.298 ug/mL

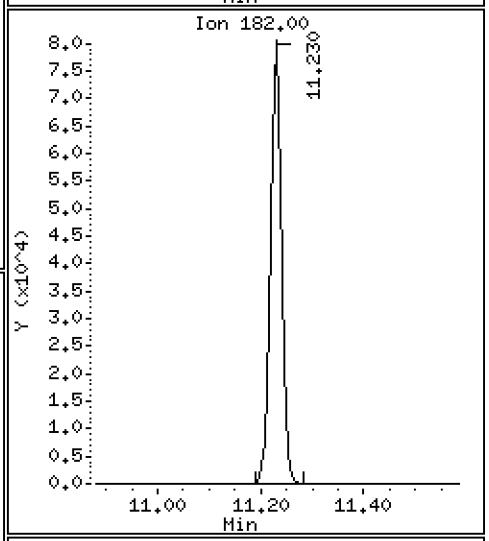


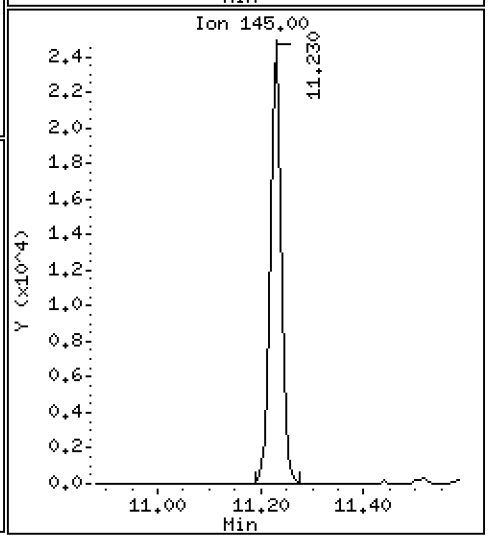












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

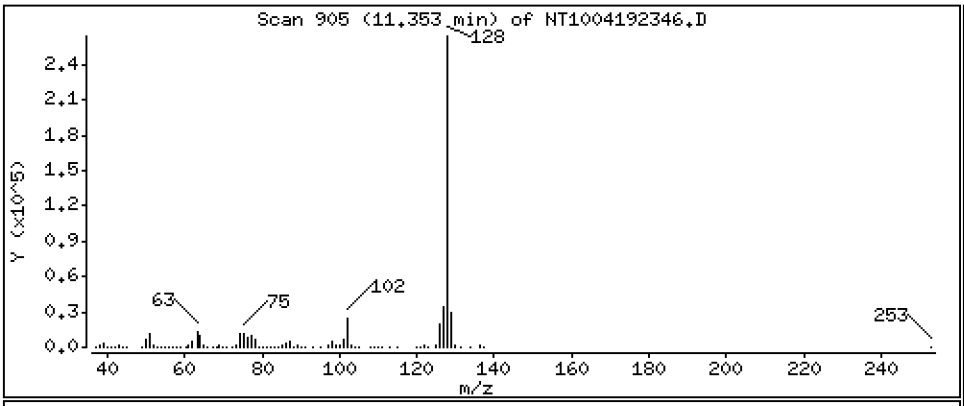
Operator: VTS

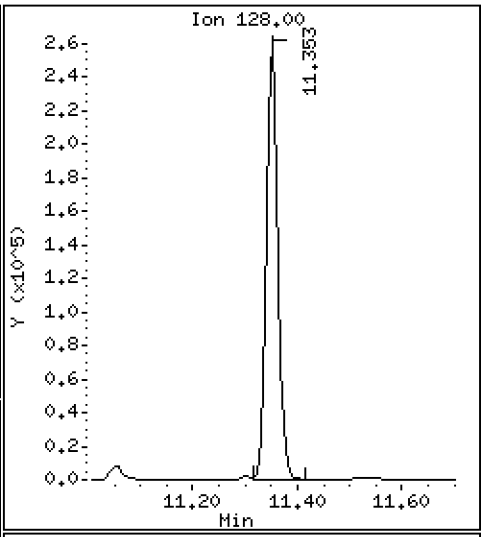
Column phase: ZB-5msi

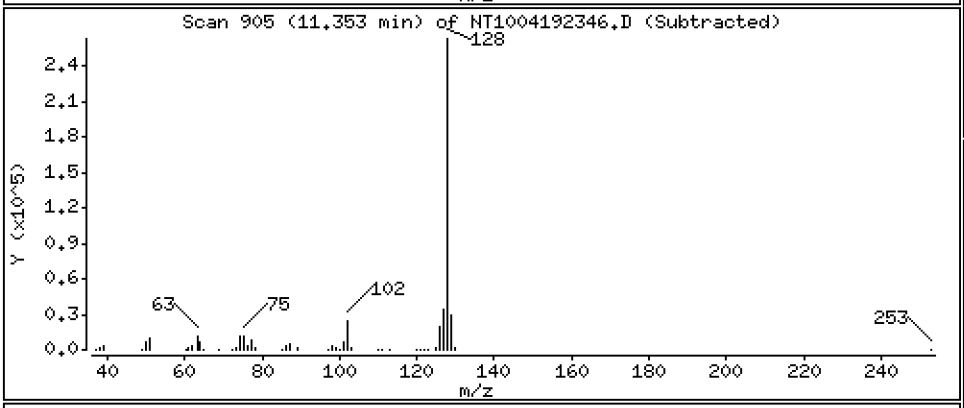
Column diameter: 0.25

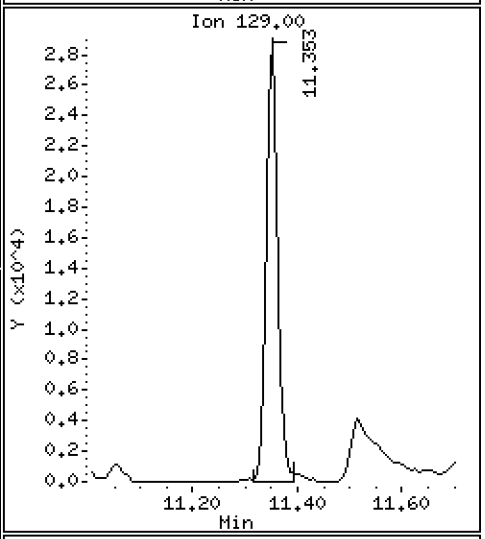
28 Naphthalene

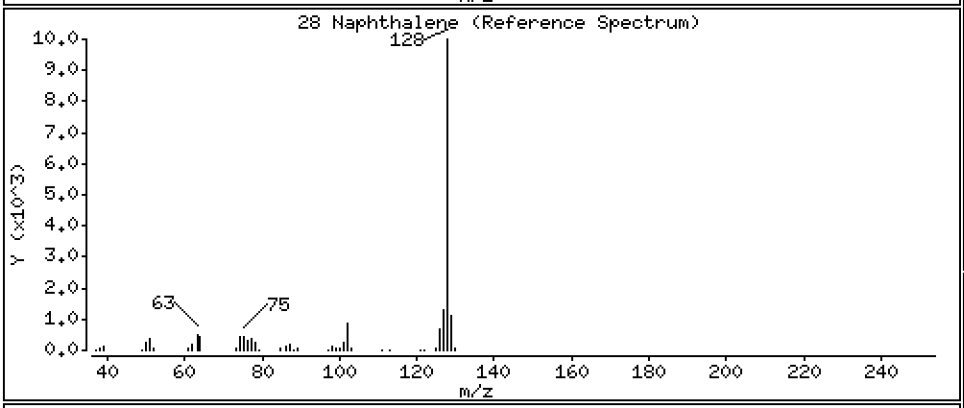
Concentration: 3.367 ug/mL

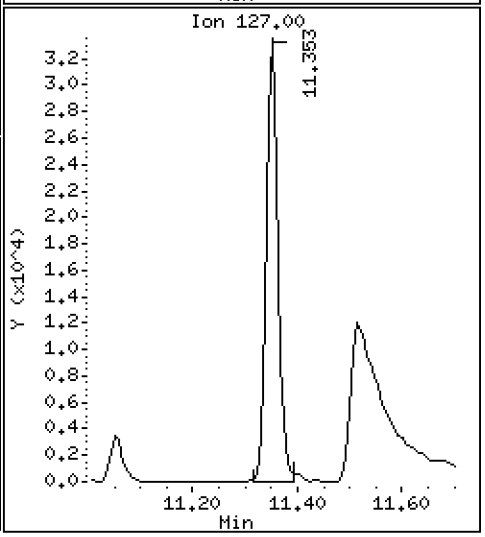


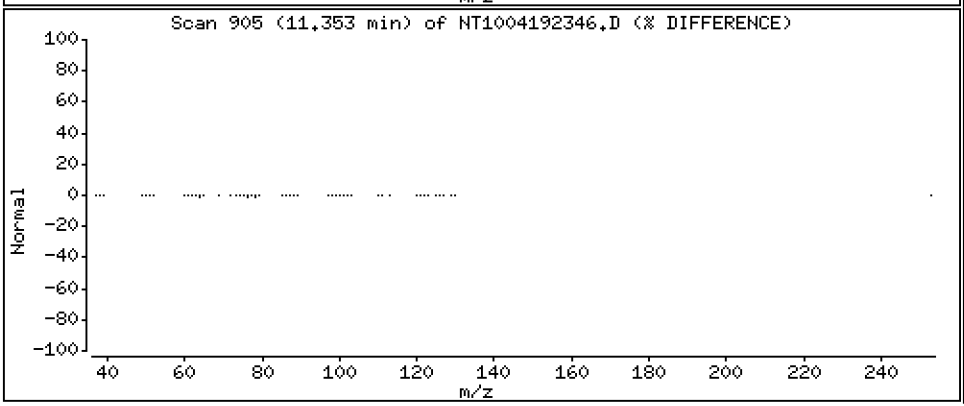












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

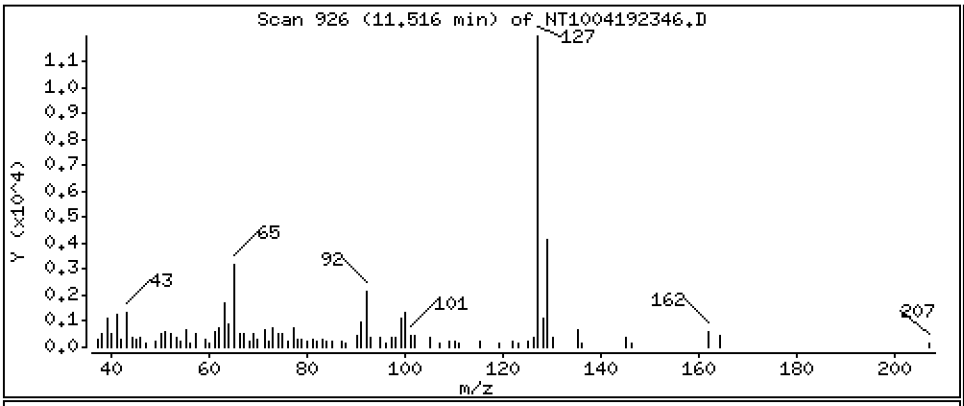
Operator: VTS

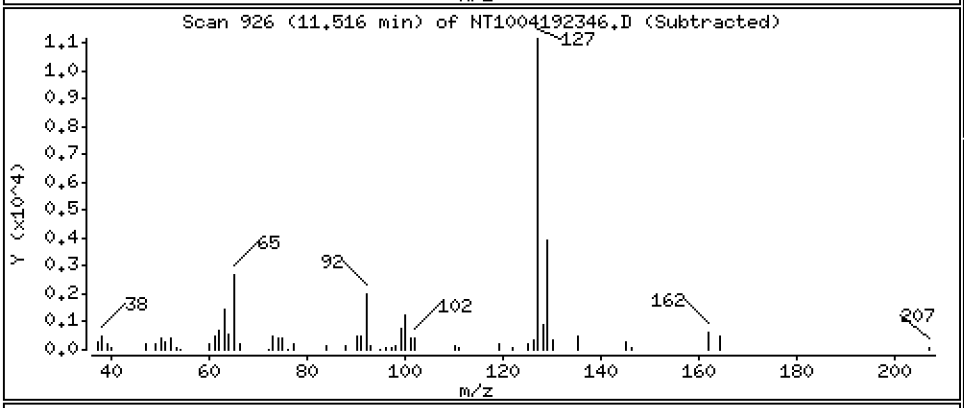
Column phase: ZB-5msi

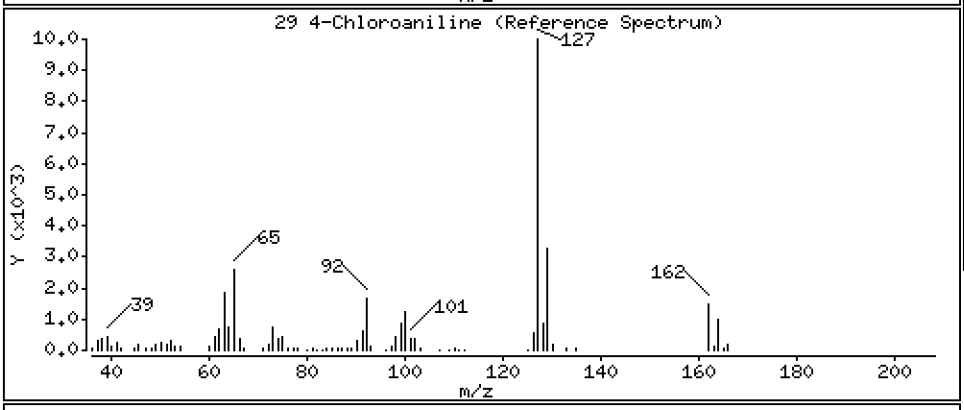
Column diameter: 0.25

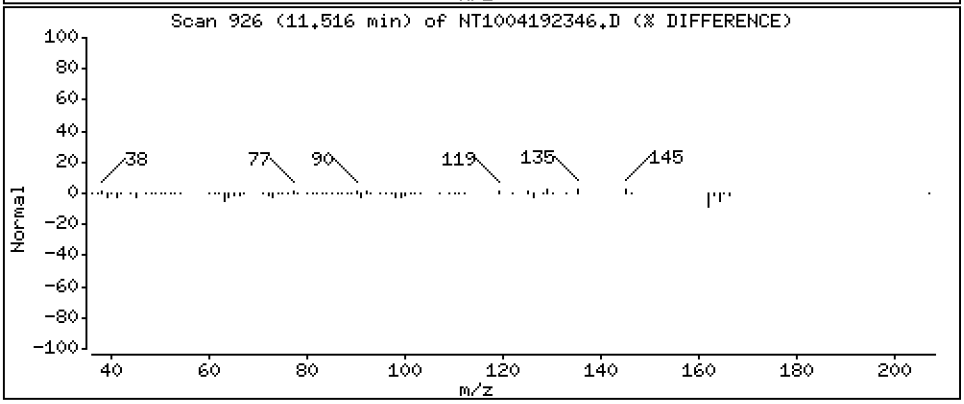
29 4-Chloroaniline

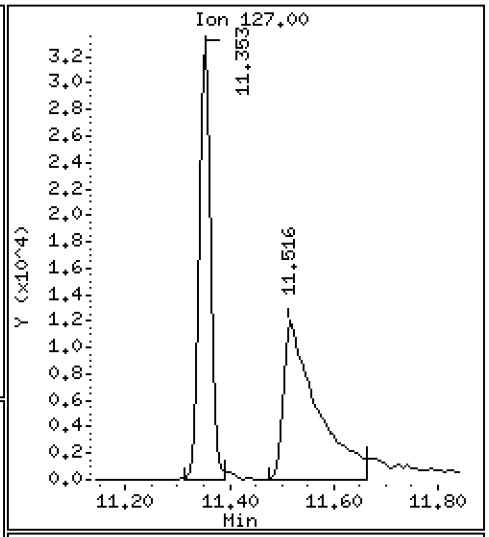
Concentration: 1.175 ug/mL

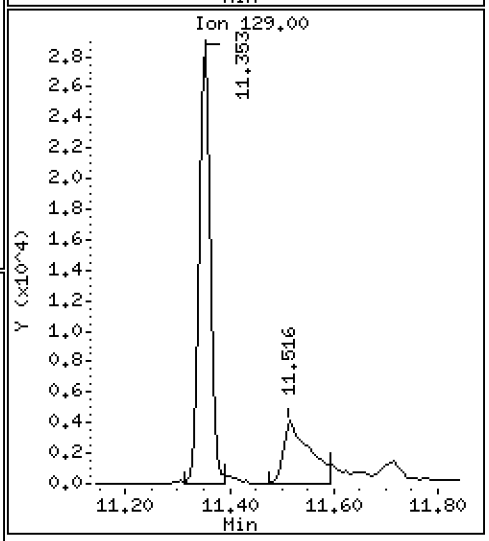












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

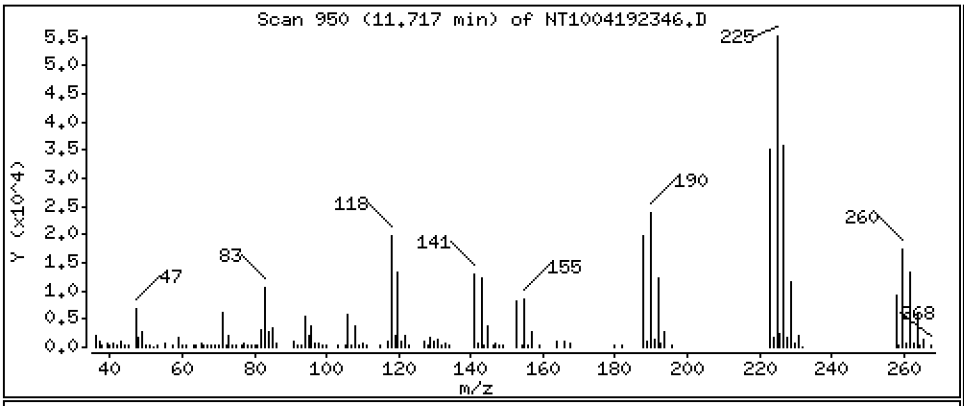
Operator: VTS

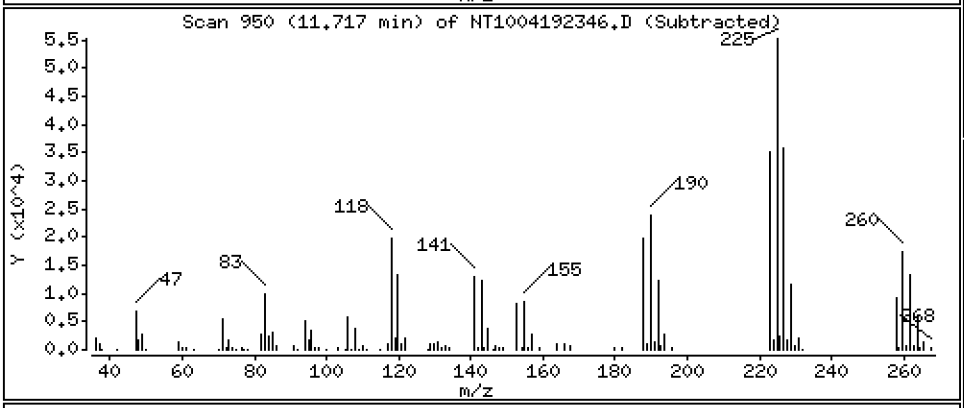
Column phase: ZB-5msi

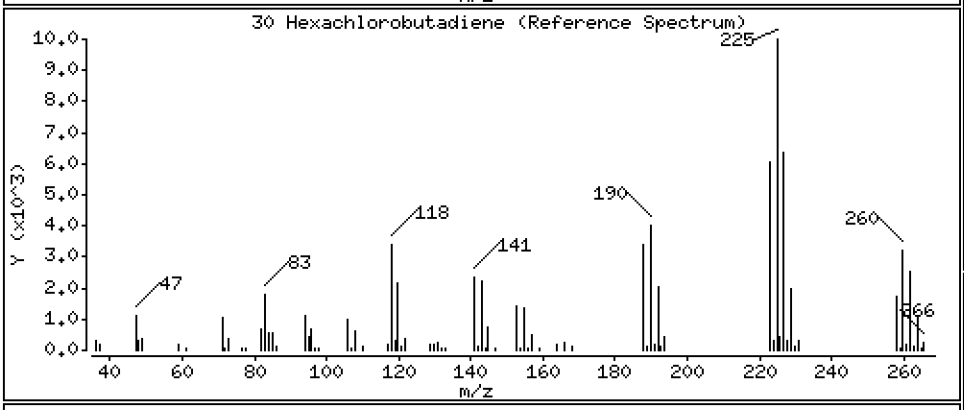
Column diameter: 0.25

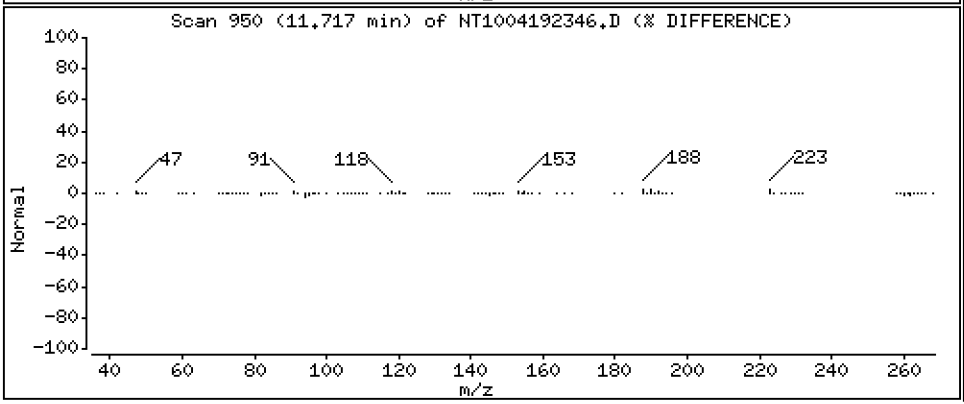
30 Hexachlorobutadiene

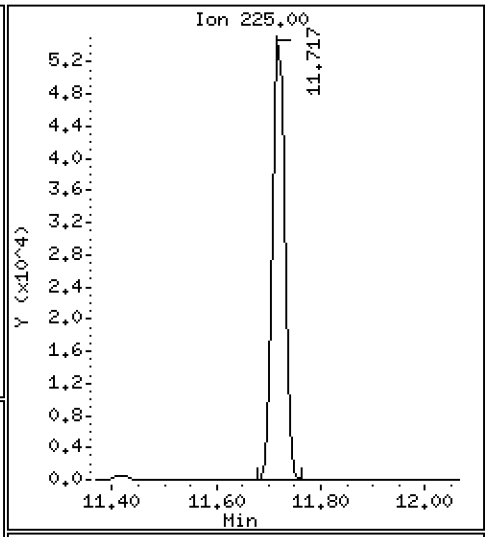
Concentration: 3.747 ug/mL

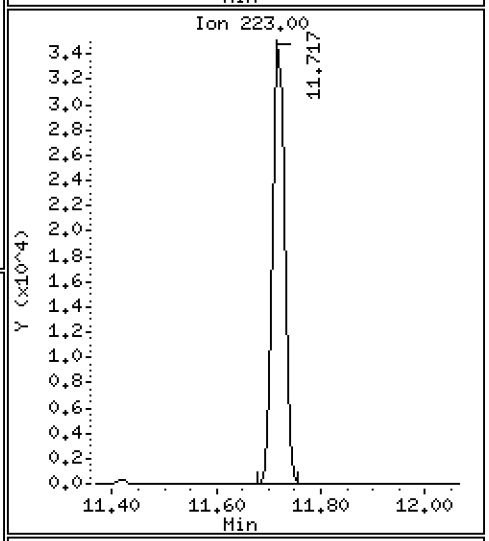


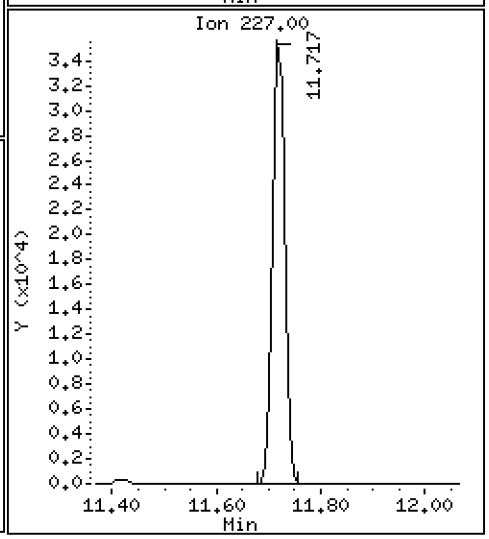












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192346.D

Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

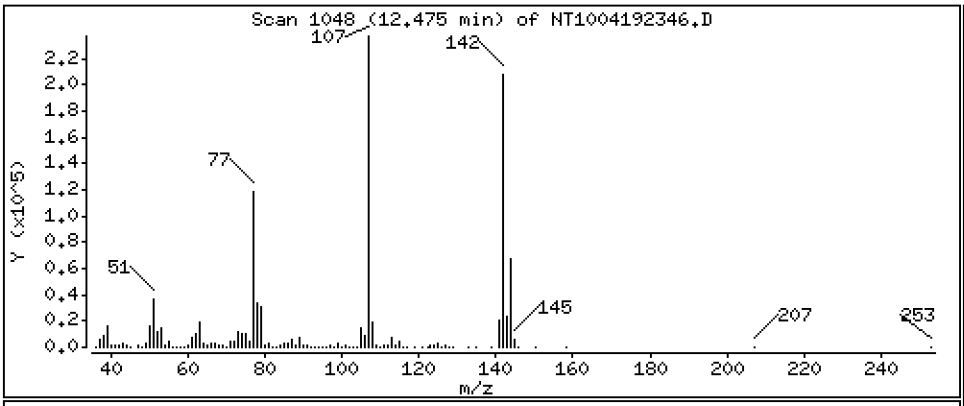
Operator: VTS

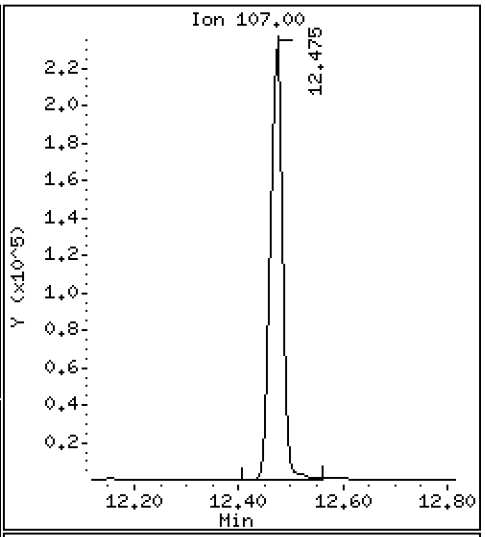
Column phase: ZB-5msi

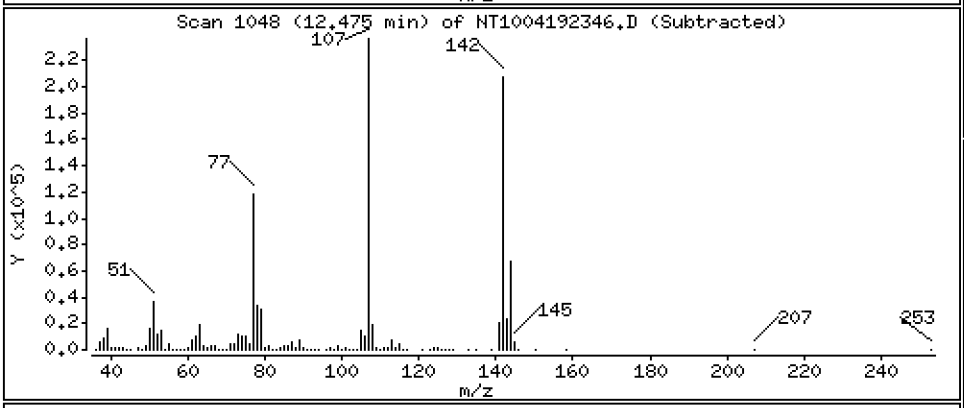
Column diameter: 0.25

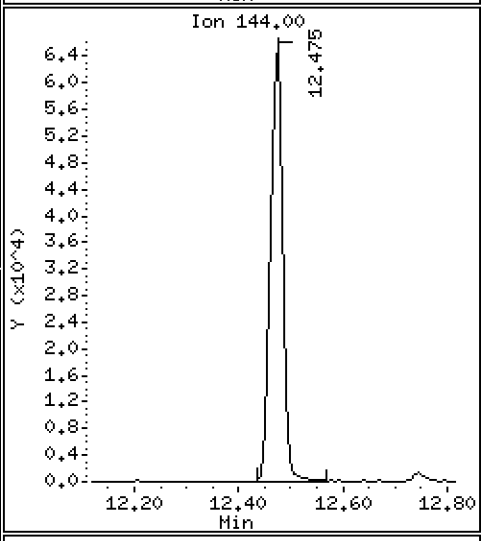
31 4-Chloro-3-methylphenol

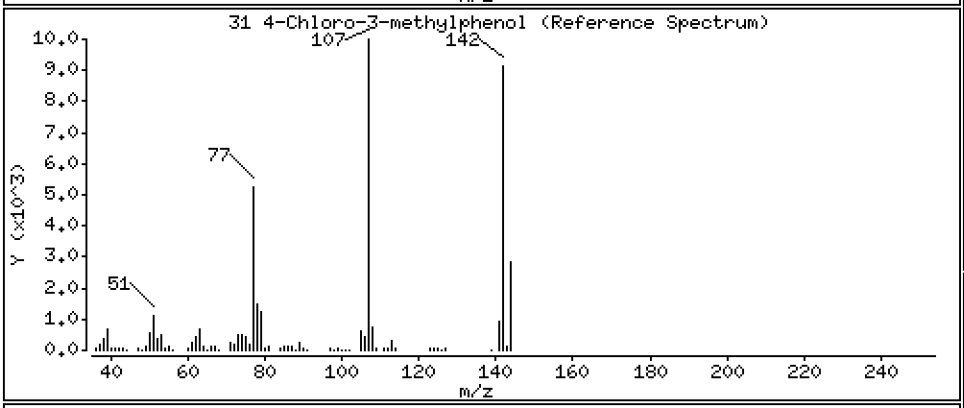
Concentration: 10.26 ug/mL

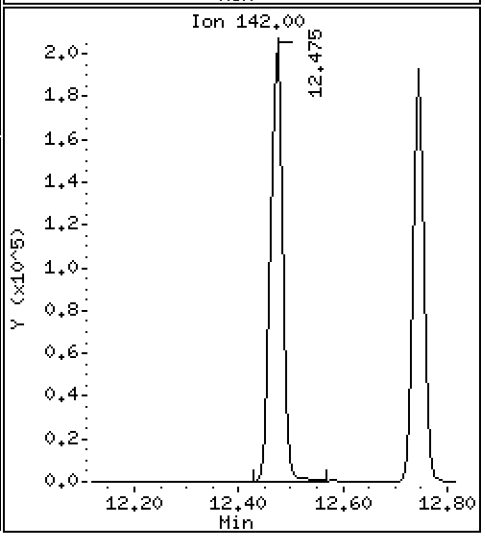


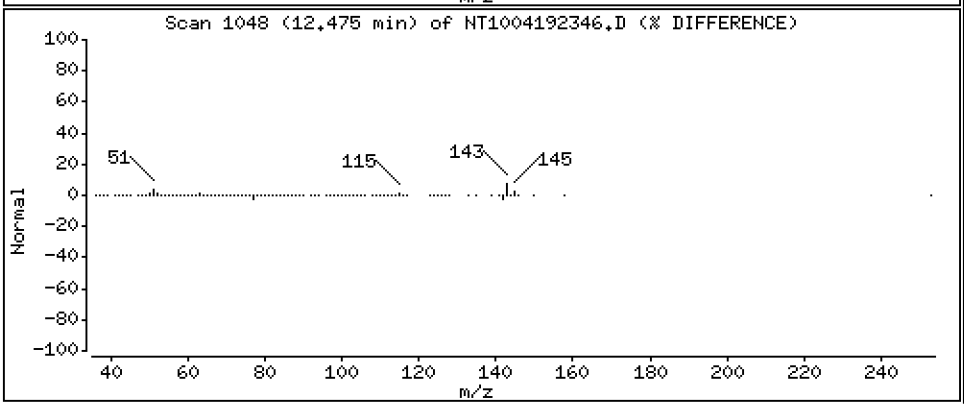












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

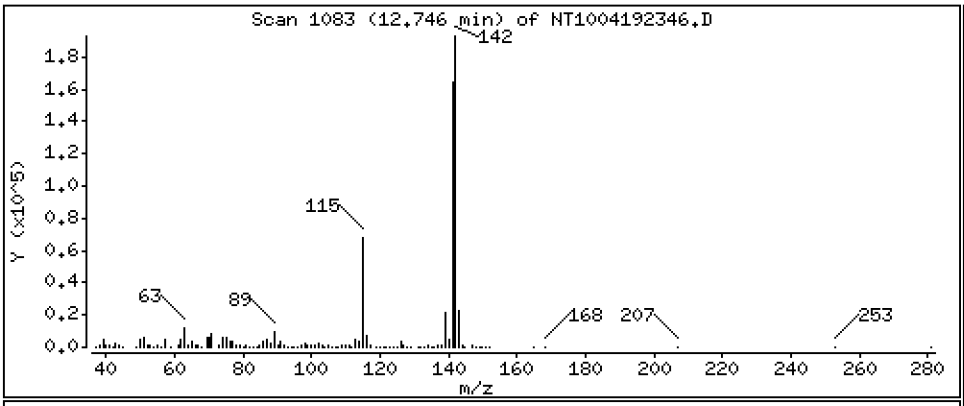
Operator: VTS

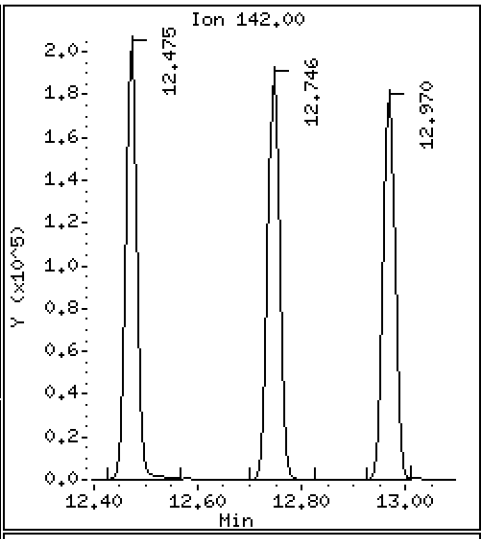
Column phase: ZB-5msi

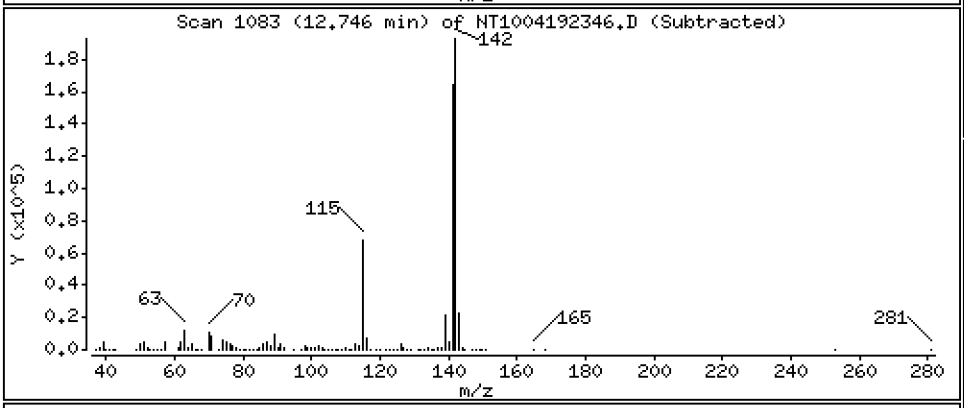
Column diameter: 0.25

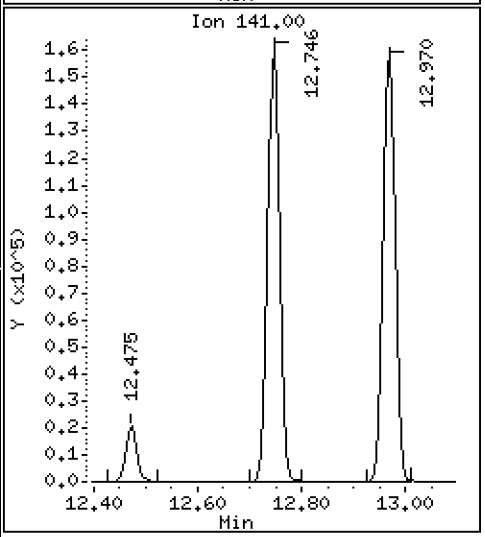
32 2-Methylnaphthalene

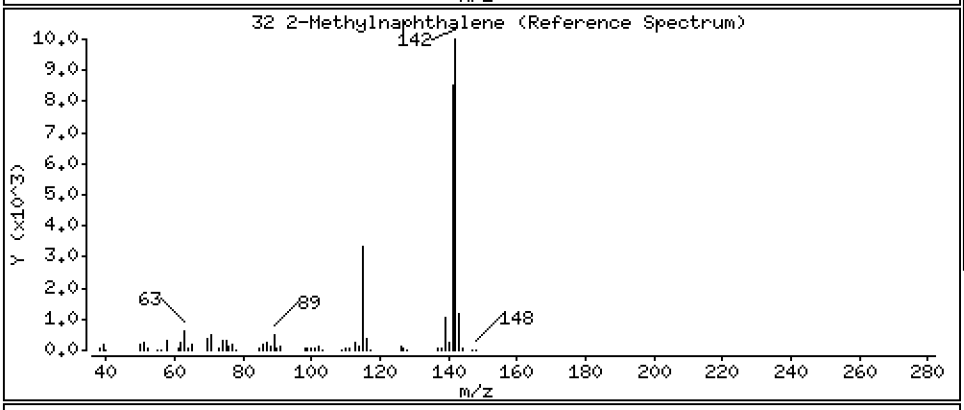
Concentration: 3.323 ug/mL

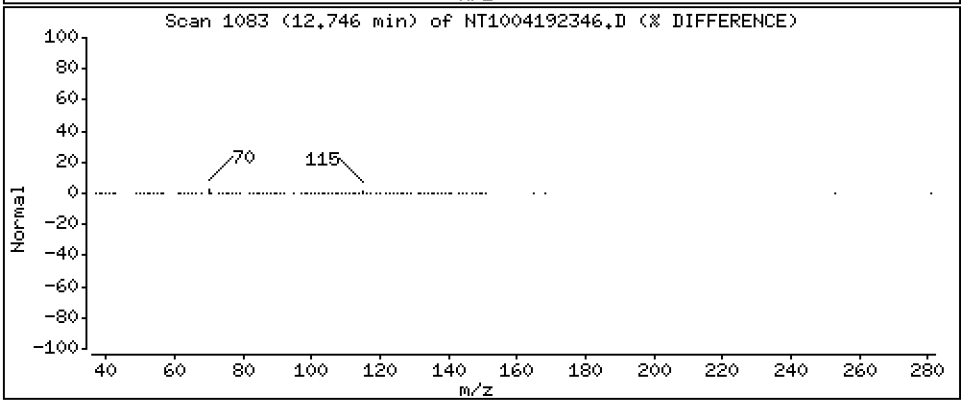












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192346.D

Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

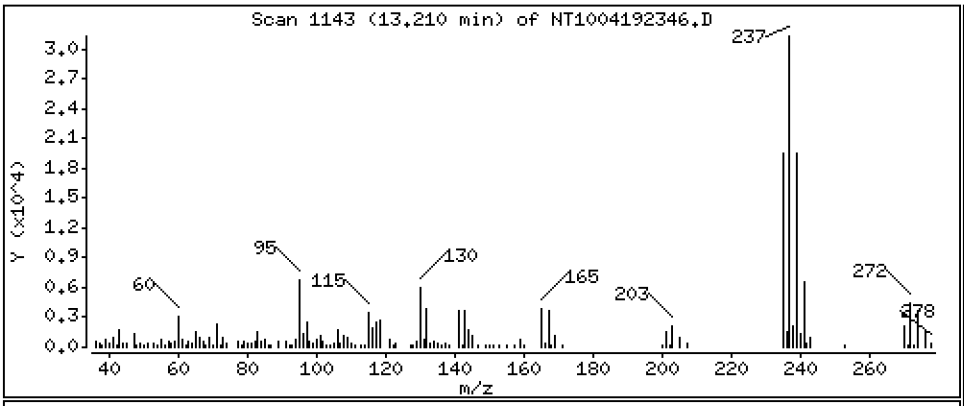
Operator: VTS

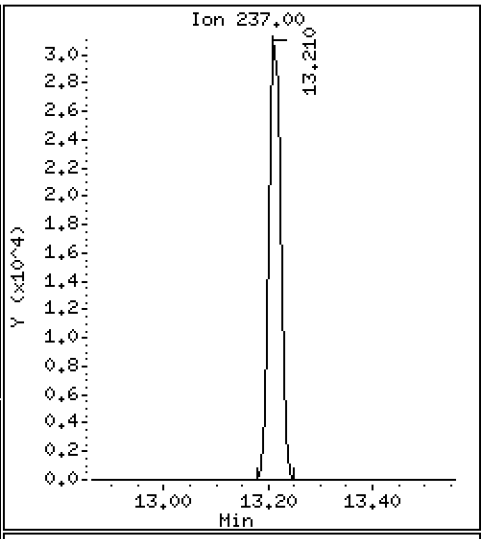
Column phase: ZB-5msi

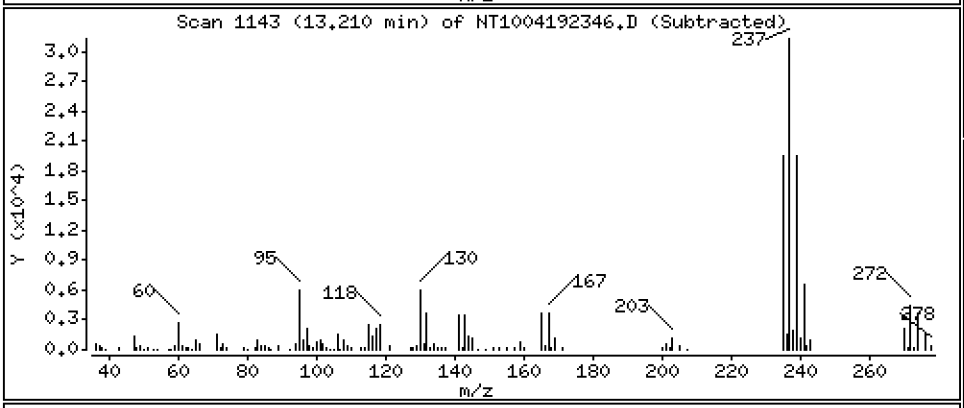
Column diameter: 0.25

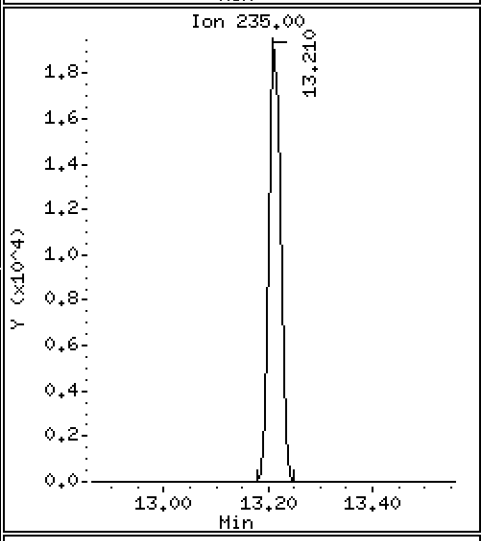
33 Hexachlorocyclopentadiene

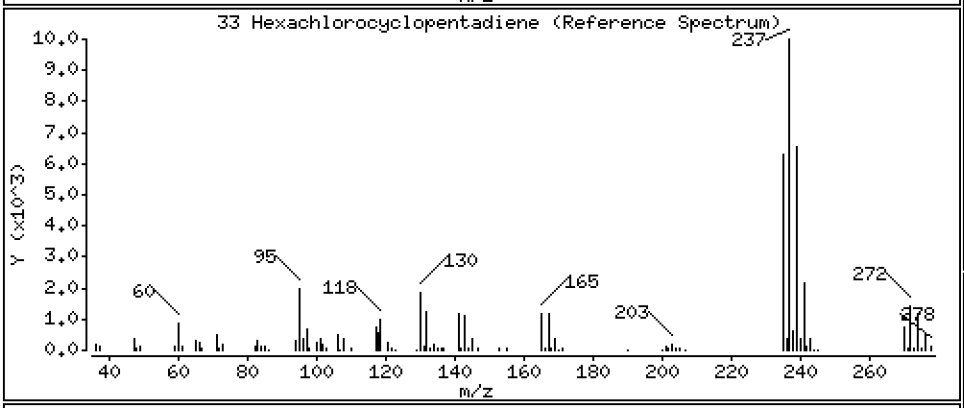
Concentration: 1.840 ug/mL

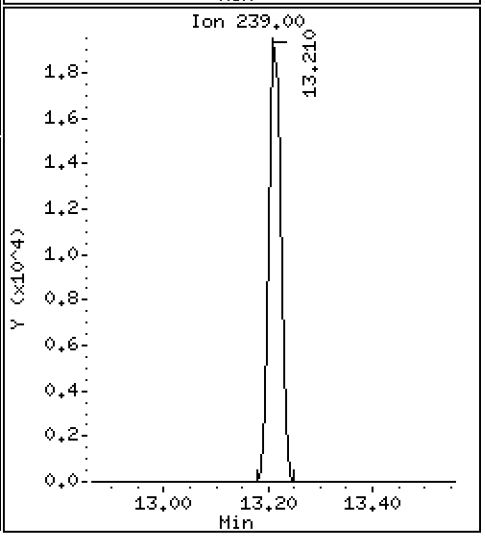


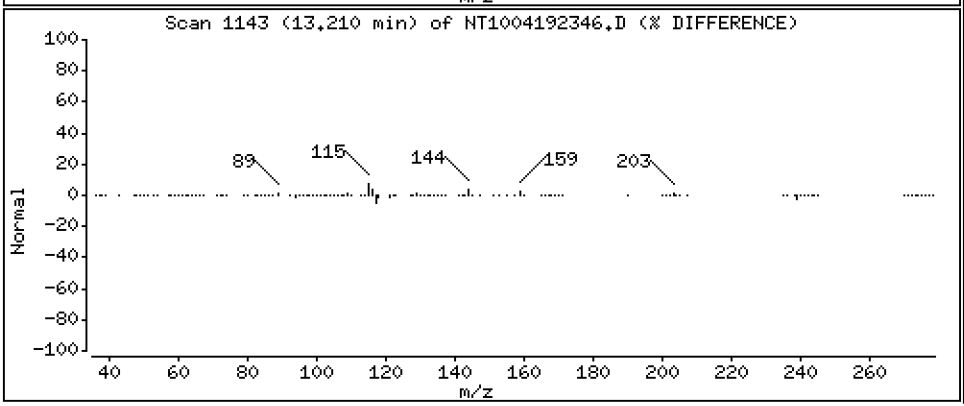












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

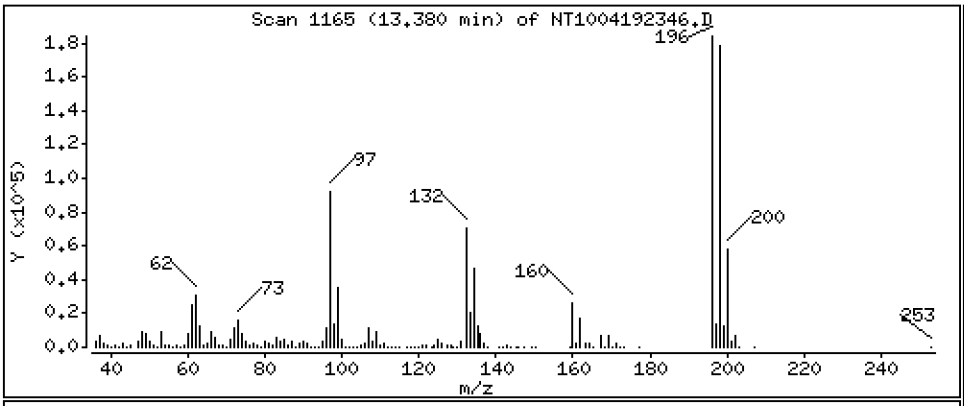
Operator: VTS

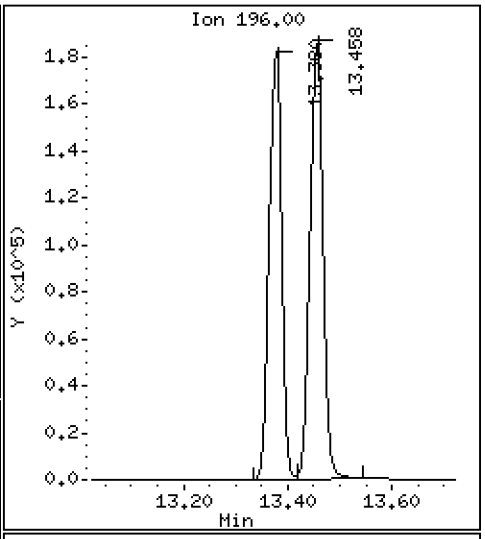
Column phase: ZB-5msi

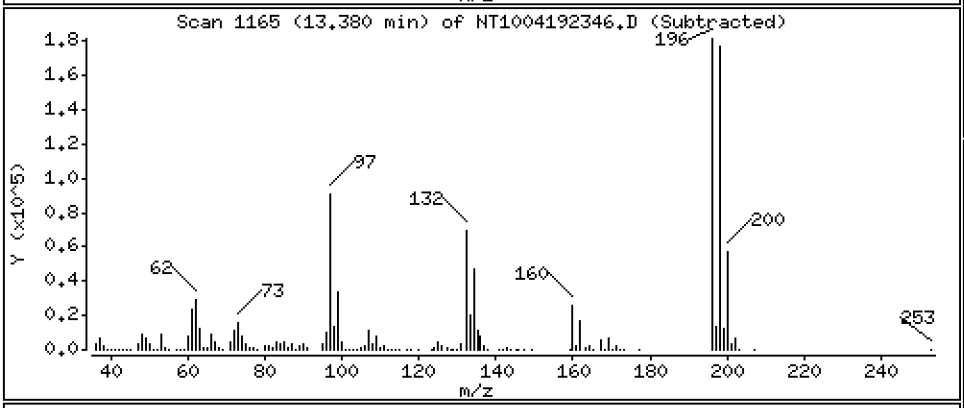
Column diameter: 0.25

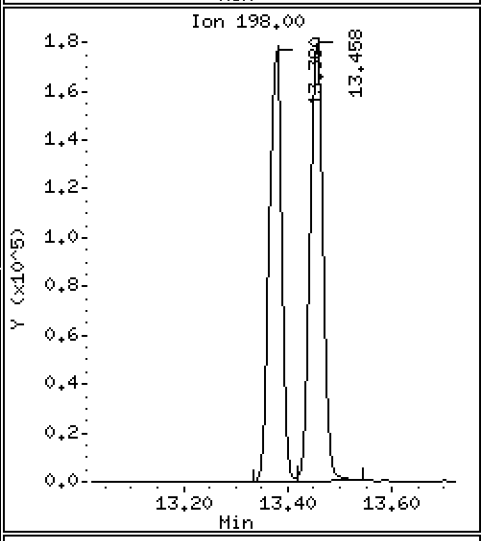
34 2,4,6-Trichlorophenol

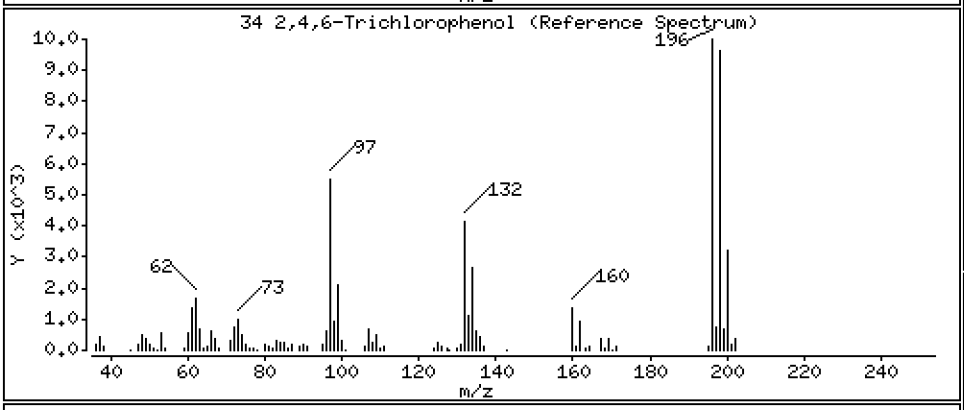
Concentration: 10.96 ug/mL

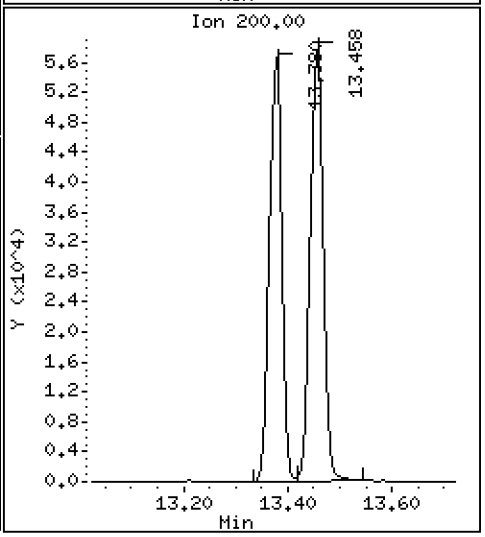


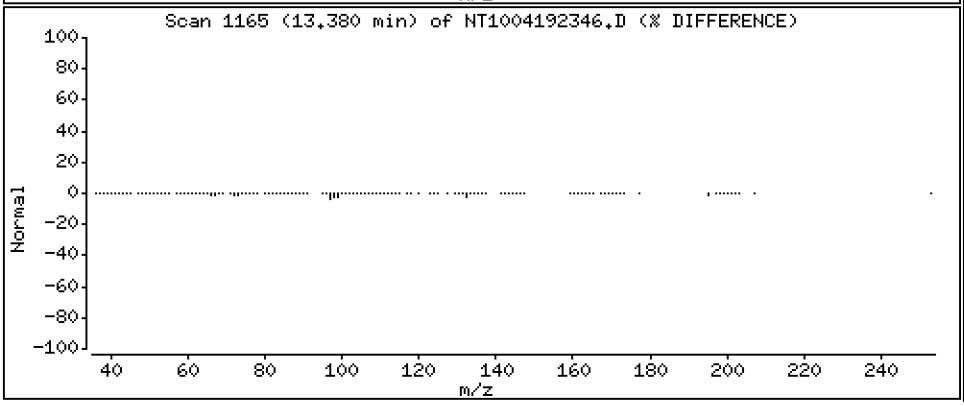












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

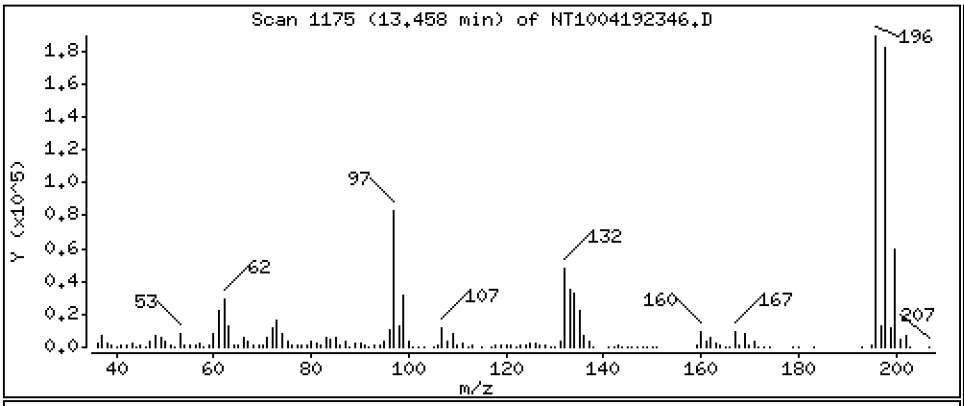
Operator: VTS

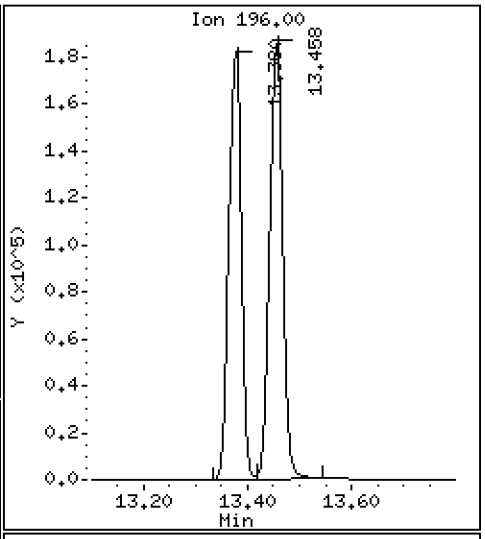
Column phase: ZB-5msi

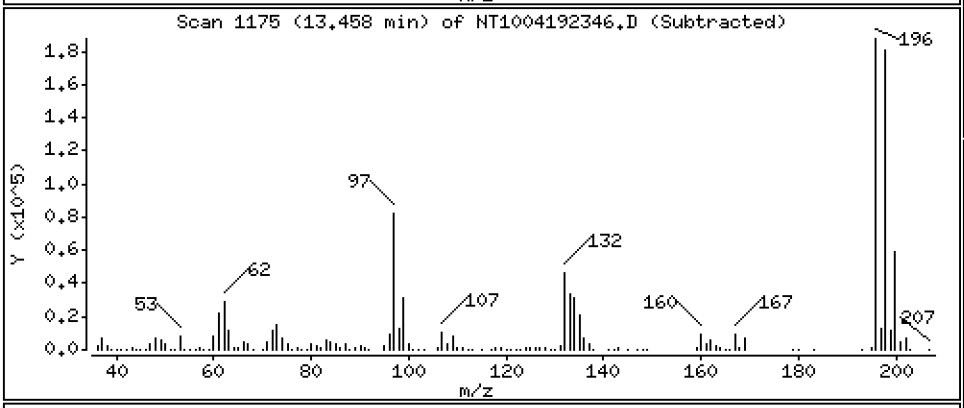
Column diameter: 0.25

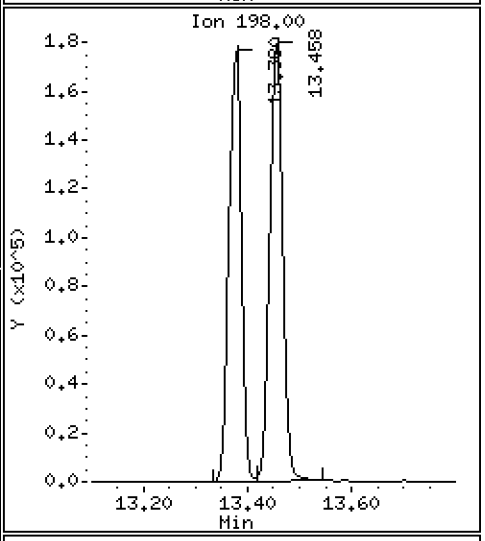
35 2,4,5-Trichlorophenol

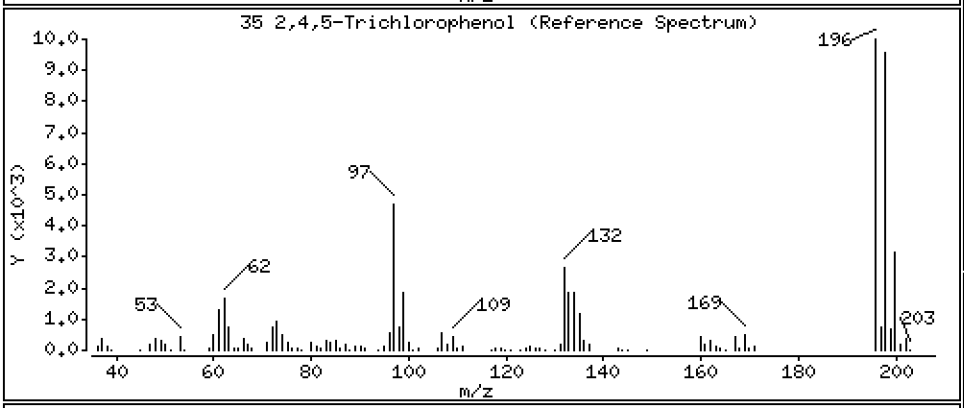
Concentration: 10.49 ug/mL

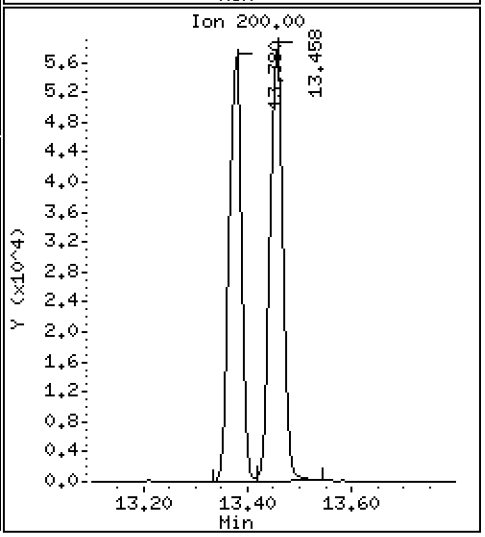


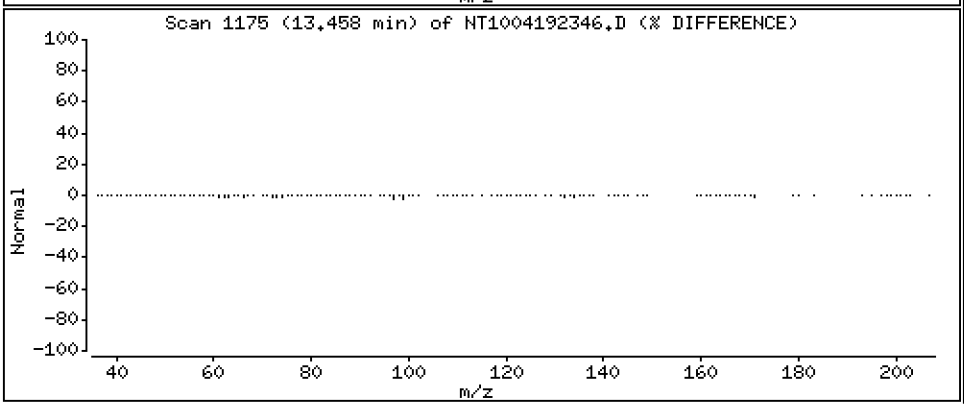












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

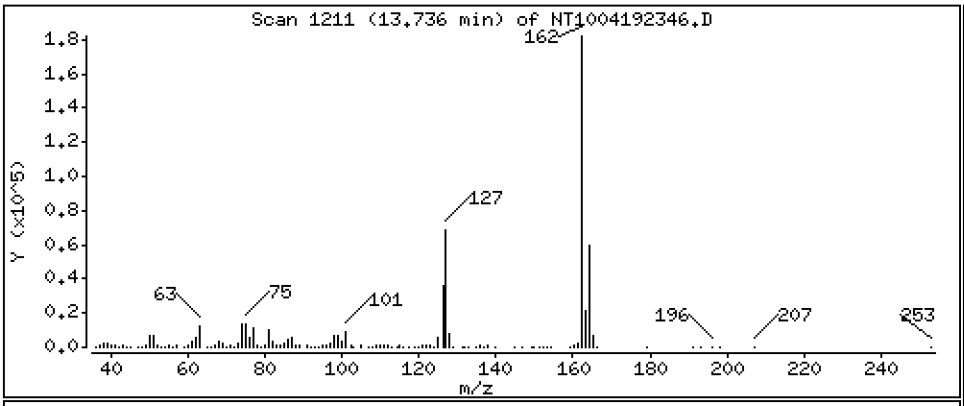
Operator: VTS

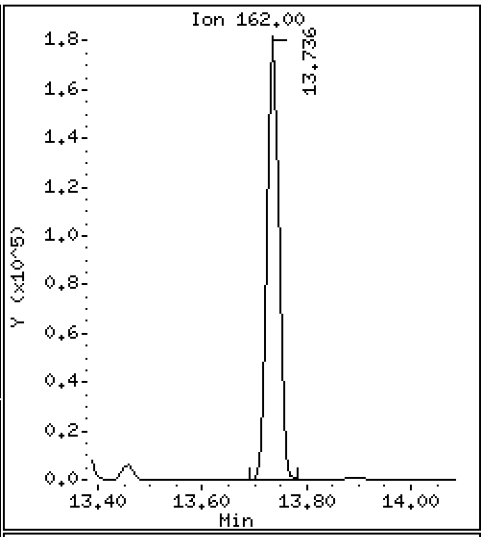
Column phase: ZB-5msi

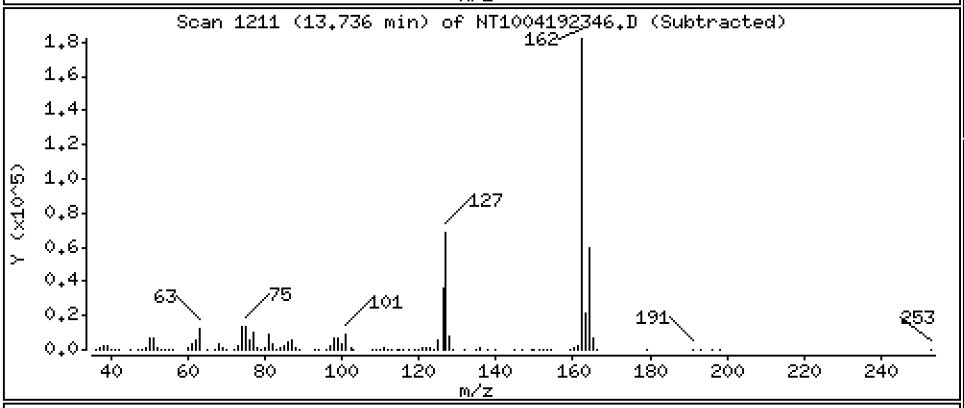
Column diameter: 0.25

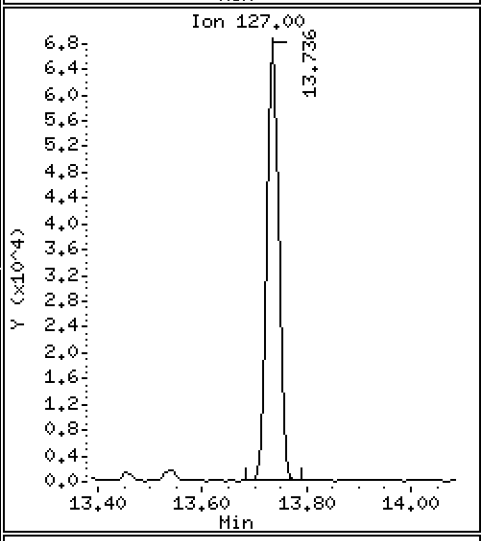
37 2-Chloronaphthalene

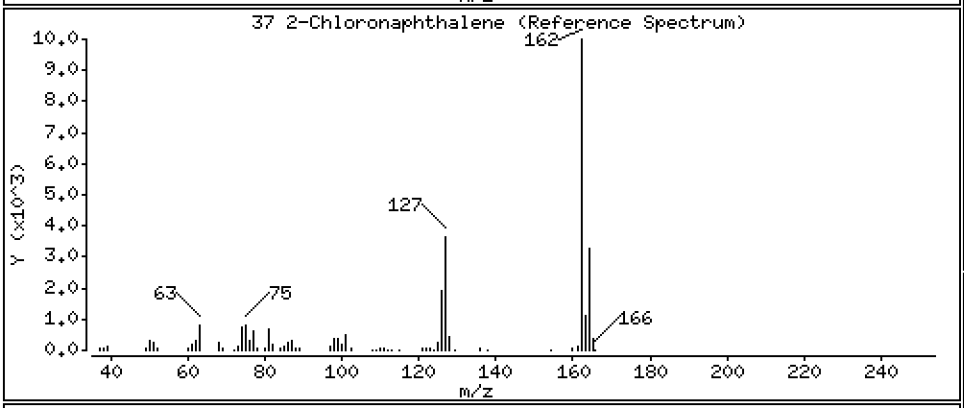
Concentration: 3.142 ug/mL

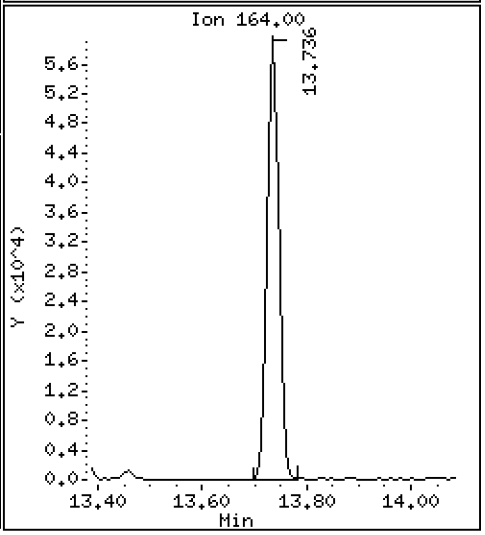


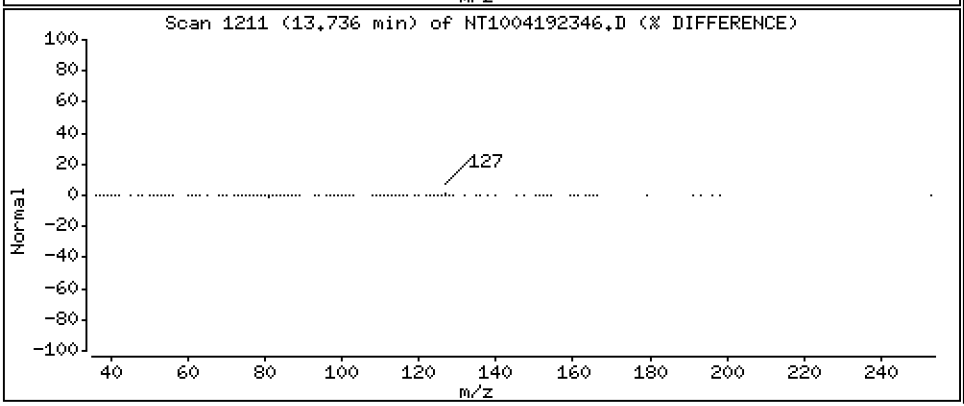












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

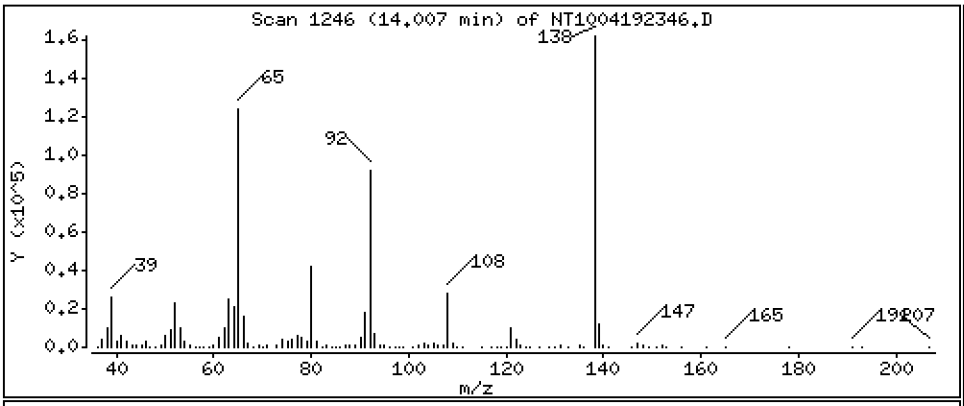
Operator: VTS

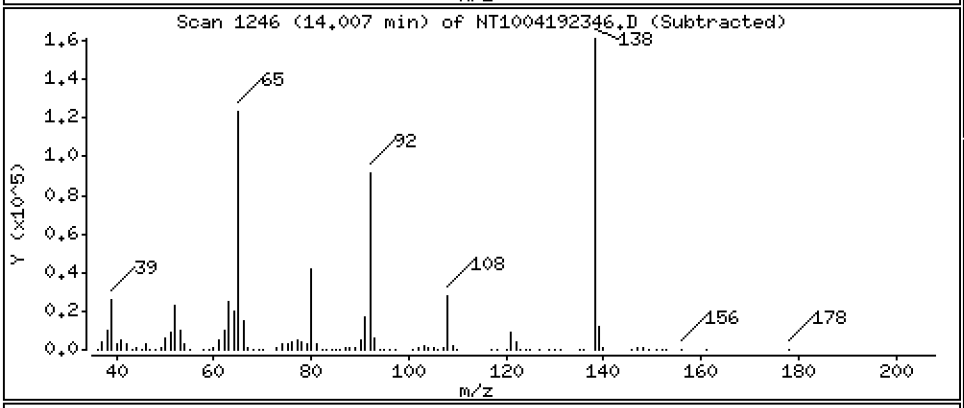
Column phase: ZB-5msi

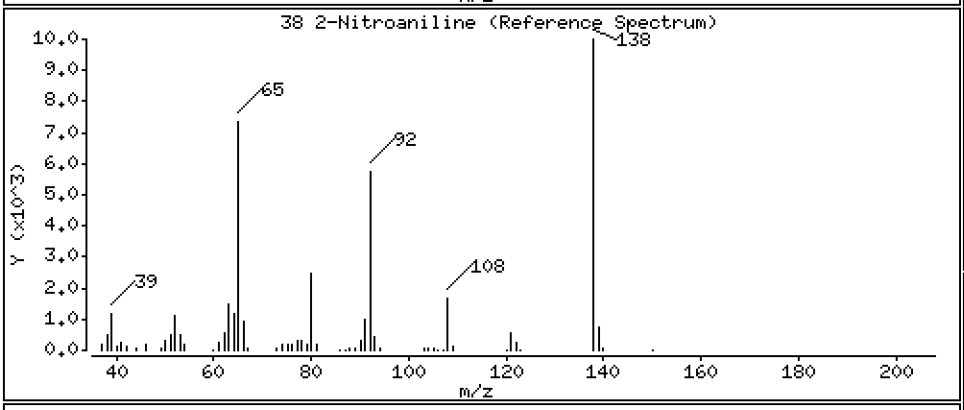
Column diameter: 0.25

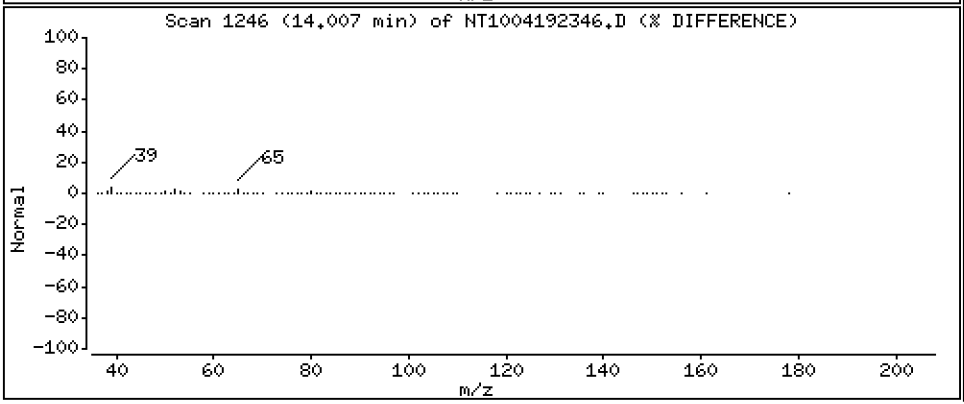
38 2-Nitroaniline

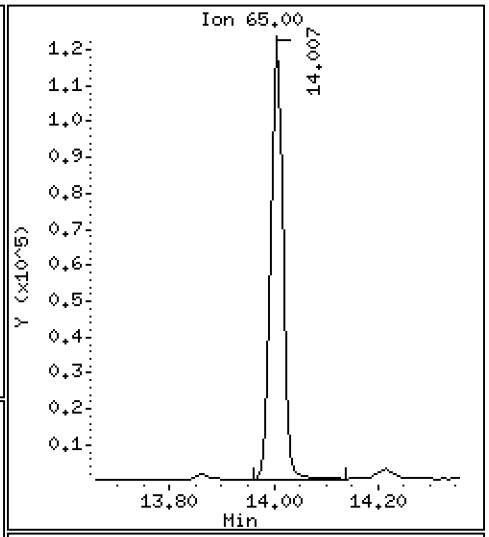
Concentration: 7.712 ug/mL

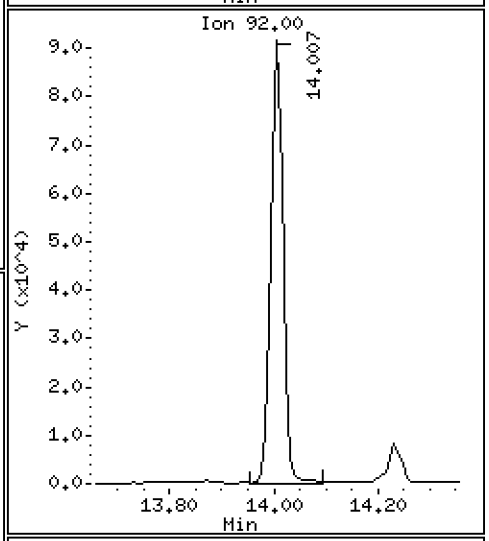


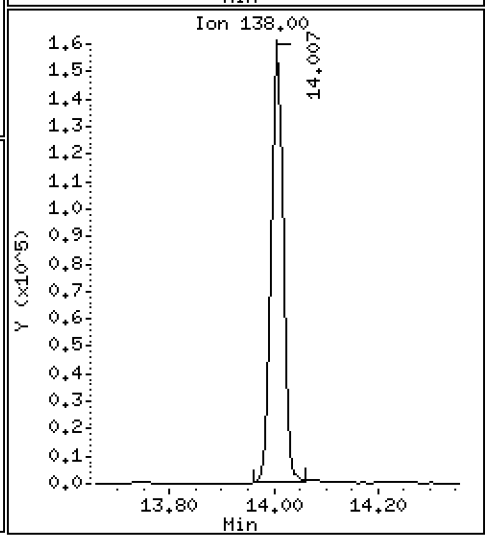












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192346.D

Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

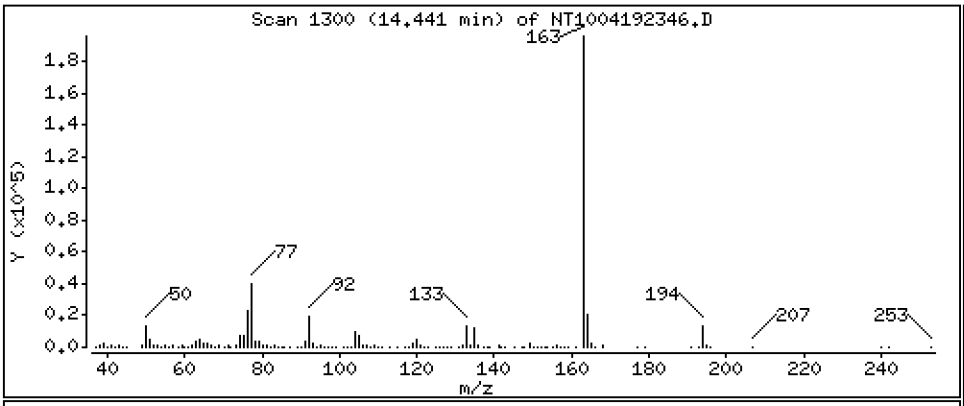
Operator: VTS

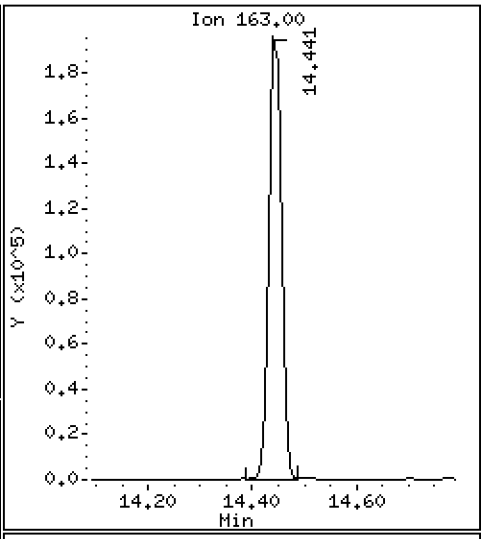
Column phase: ZB-5msi

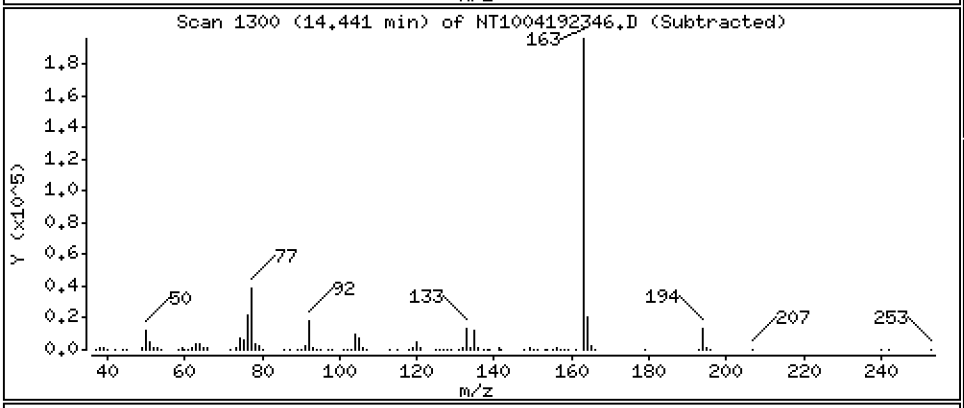
Column diameter: 0.25

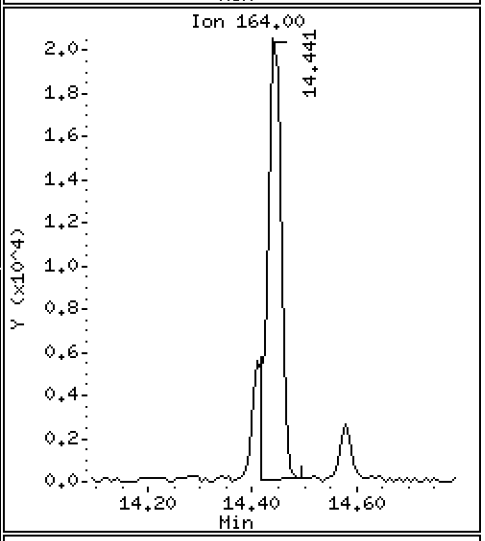
39 Dimethylphthalate

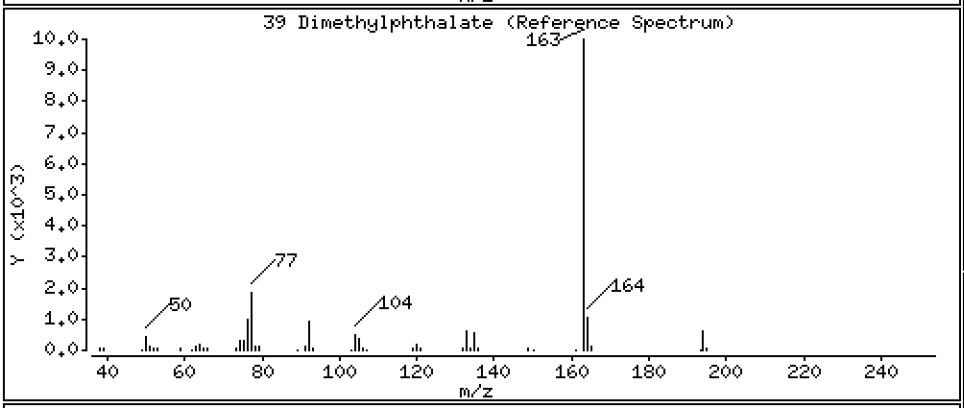
Concentration: 3.538 ug/mL

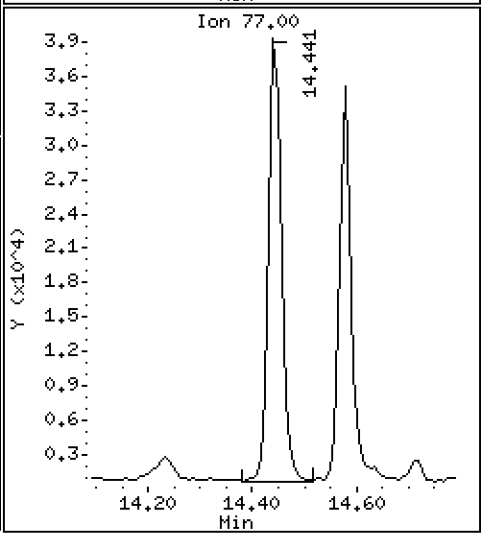


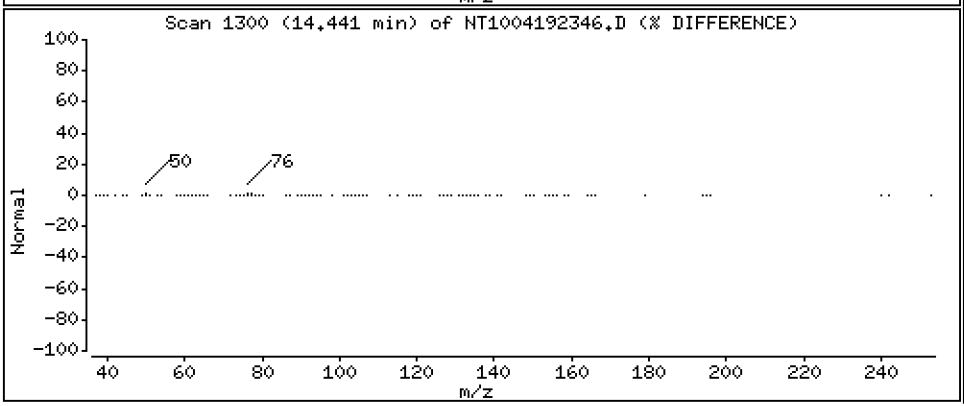












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

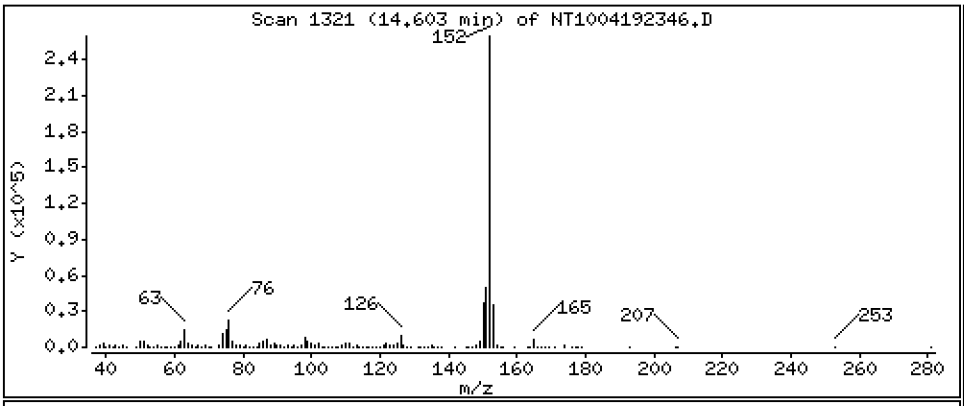
Operator: VTS

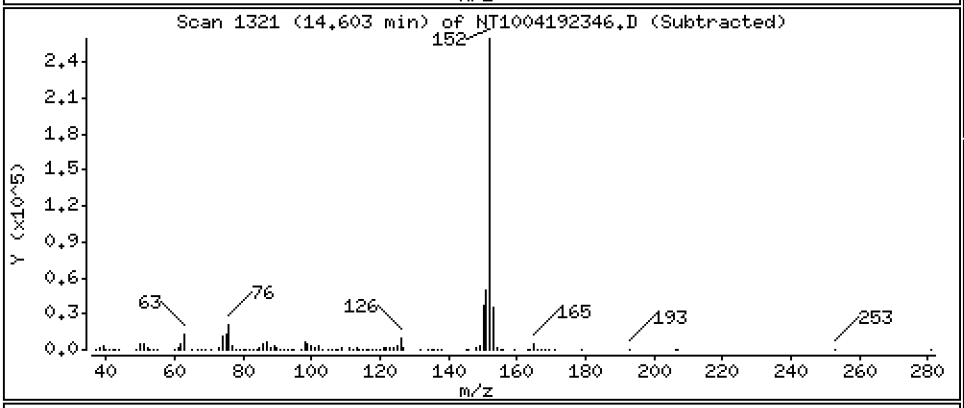
Column phase: ZB-5msi

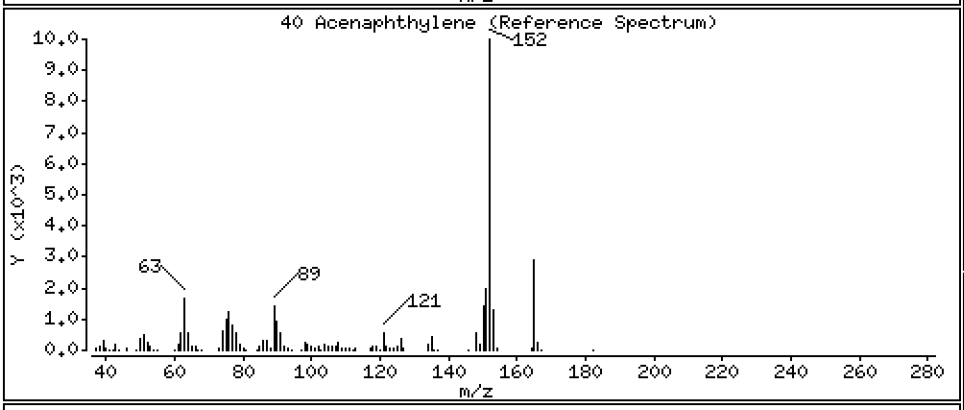
Column diameter: 0.25

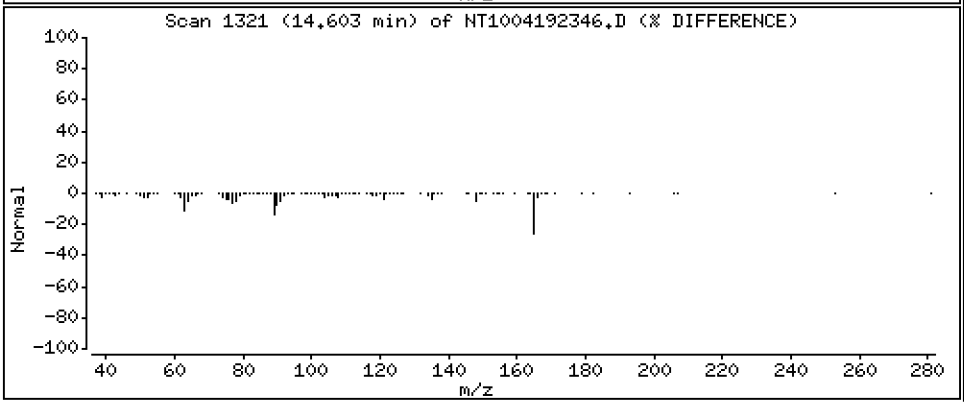
40 Acenaphthylene

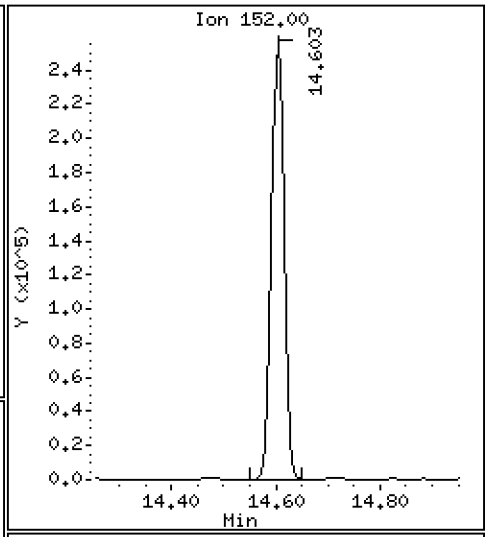
Concentration: 3.089 ug/mL

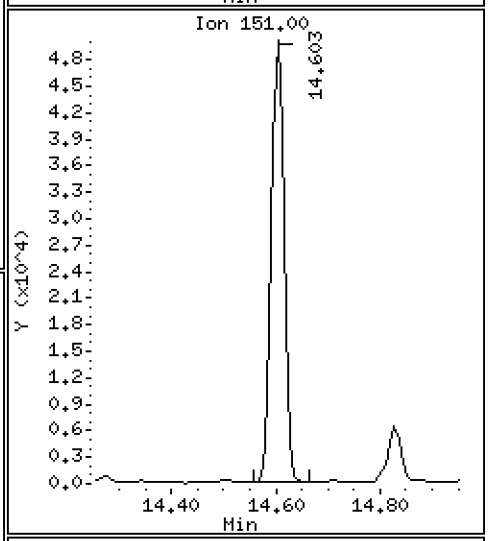


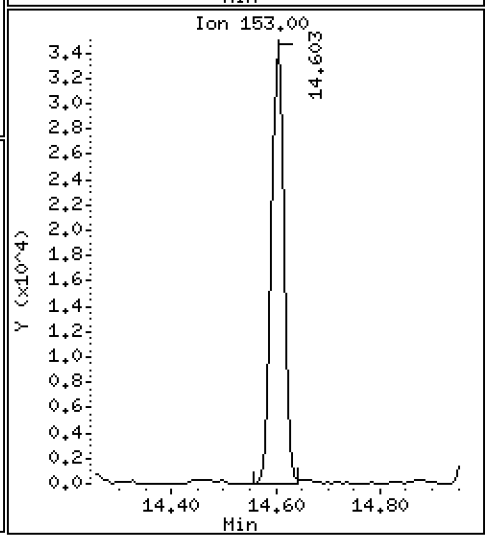












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

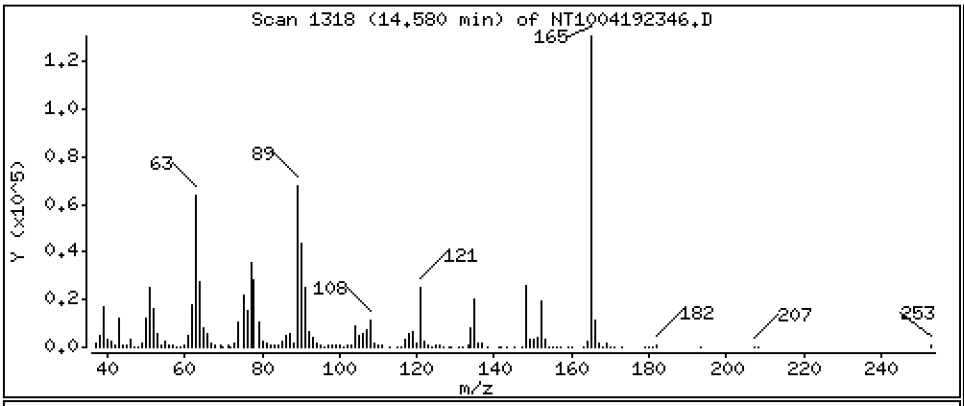
Operator: VTS

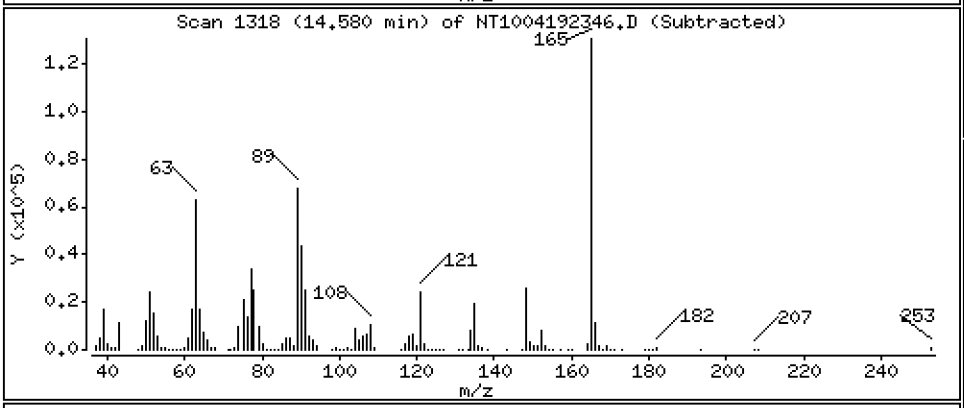
Column phase: ZB-5msi

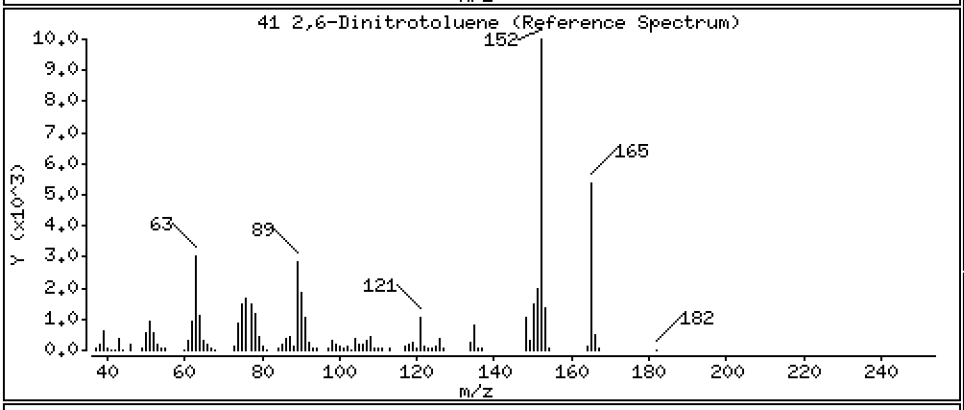
Column diameter: 0.25

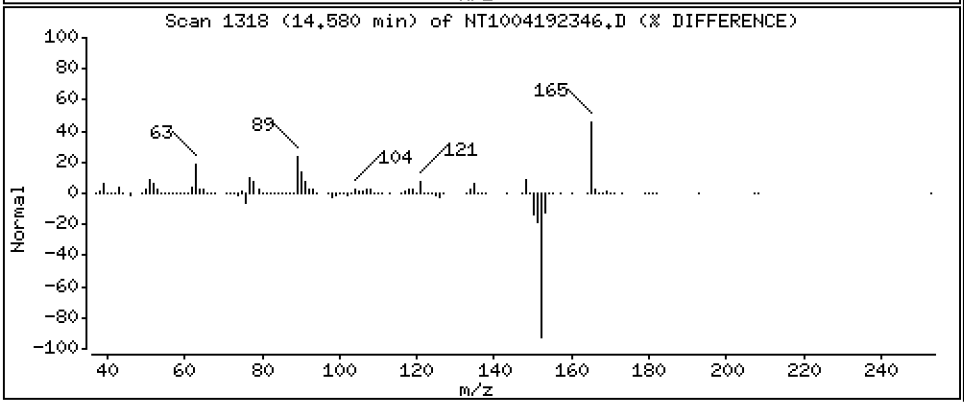
41 2,6-Dinitrotoluene

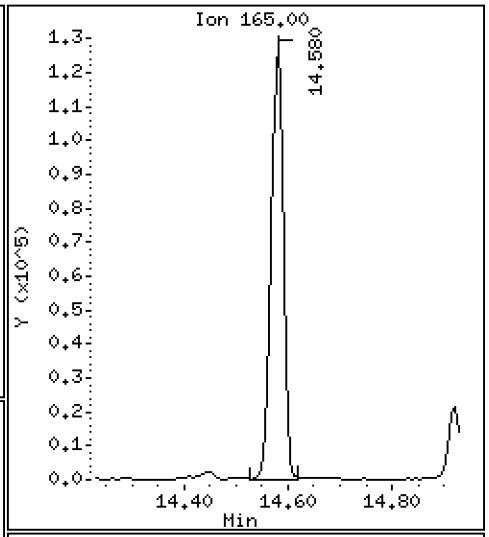
Concentration: 10.36 ug/mL

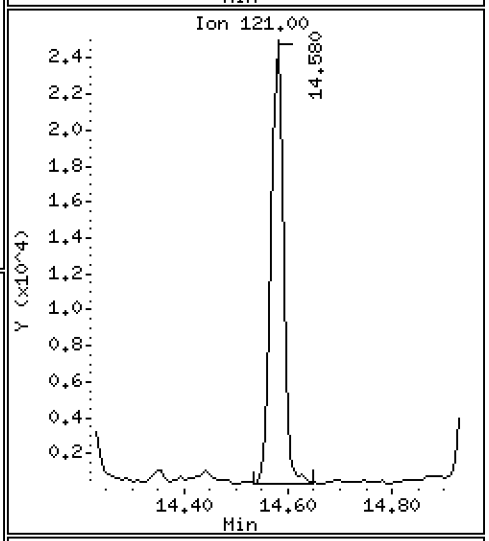


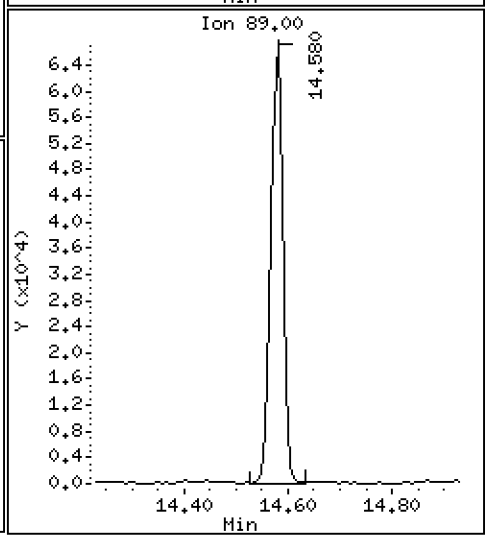












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

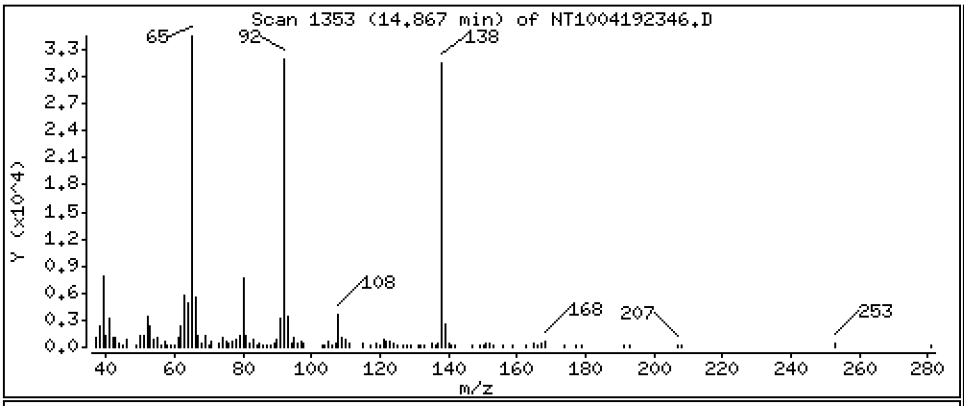
Operator: VTS

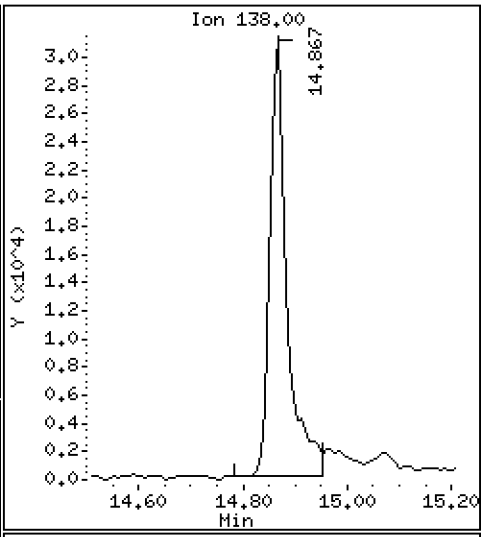
Column phase: ZB-5msi

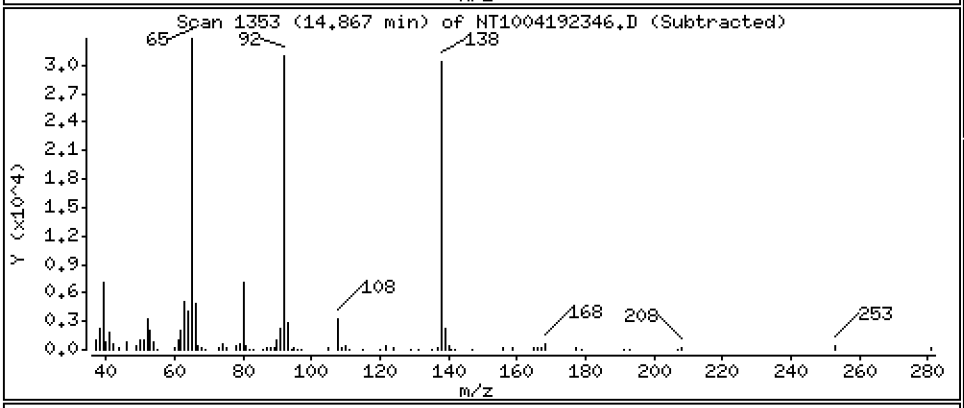
Column diameter: 0.25

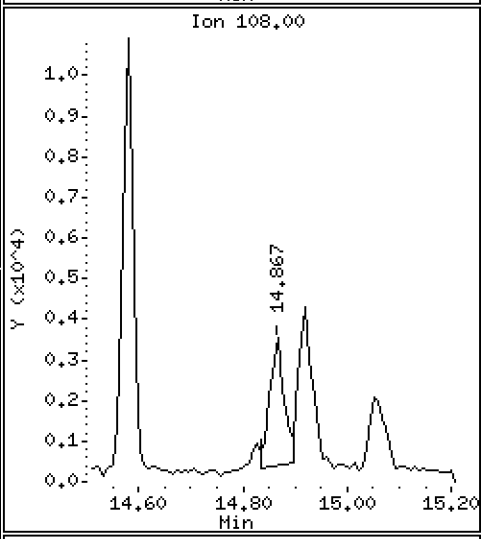
43 3-Nitroaniline

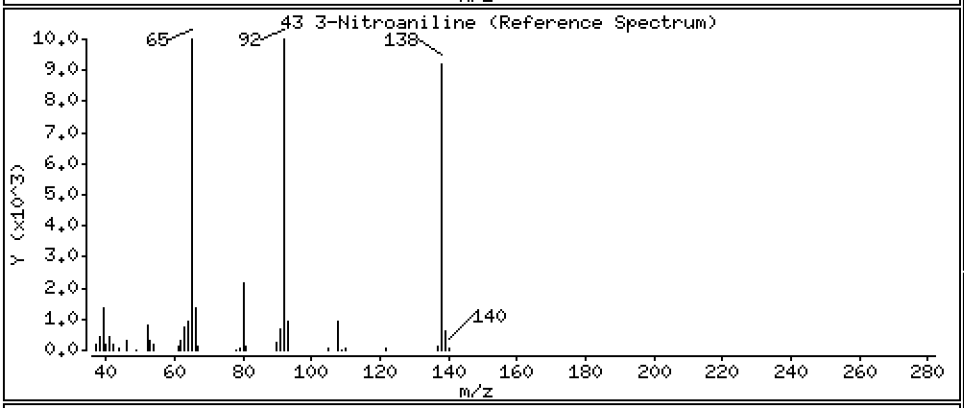
Concentration: 3.610 ug/mL

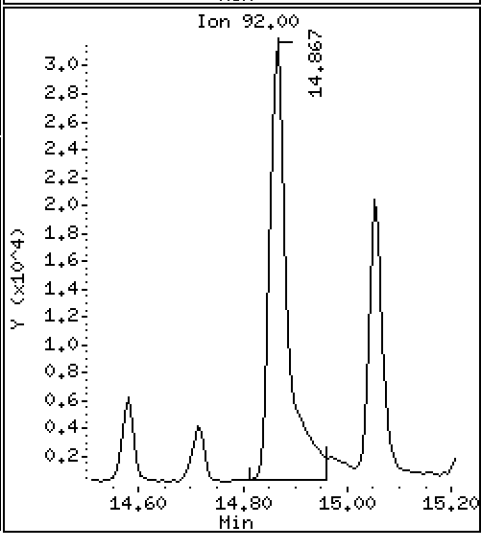


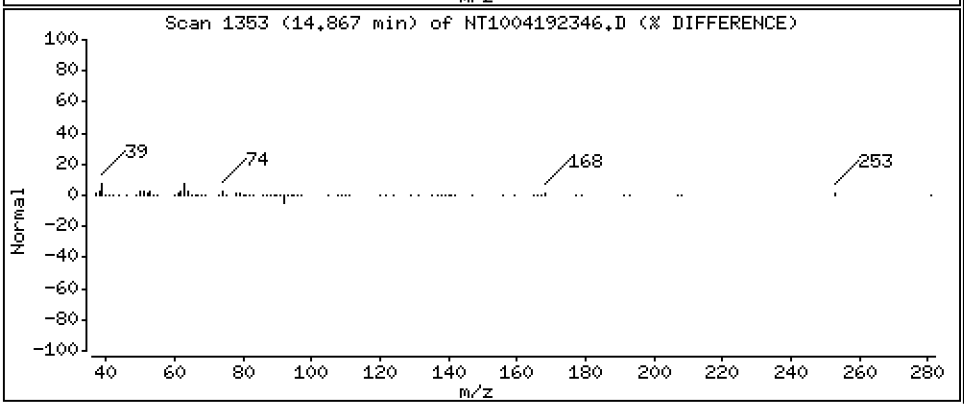












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

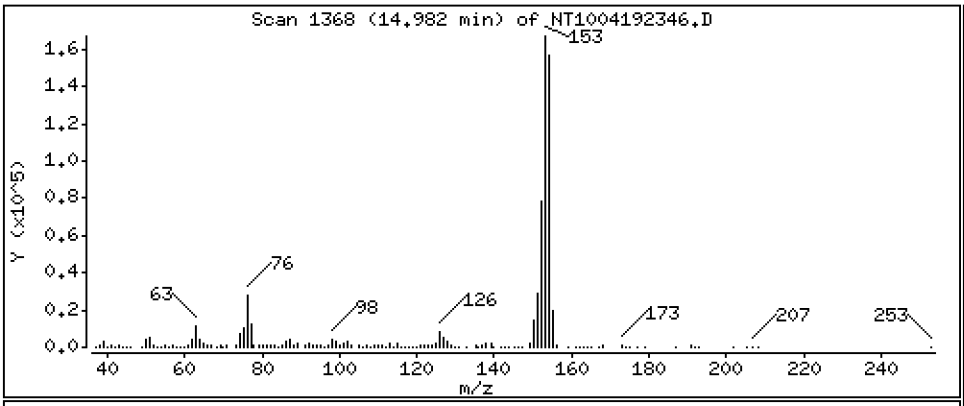
Operator: VTS

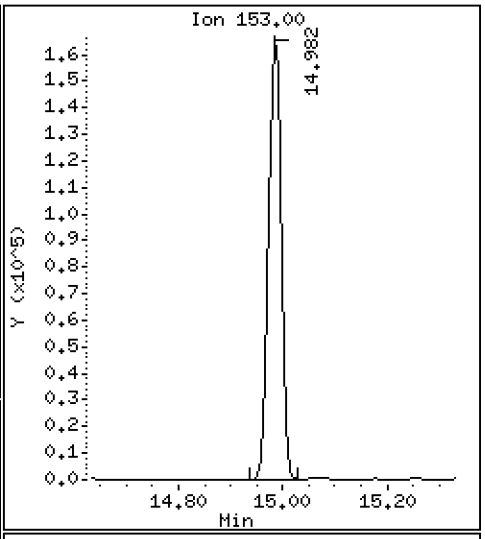
Column phase: ZB-5msi

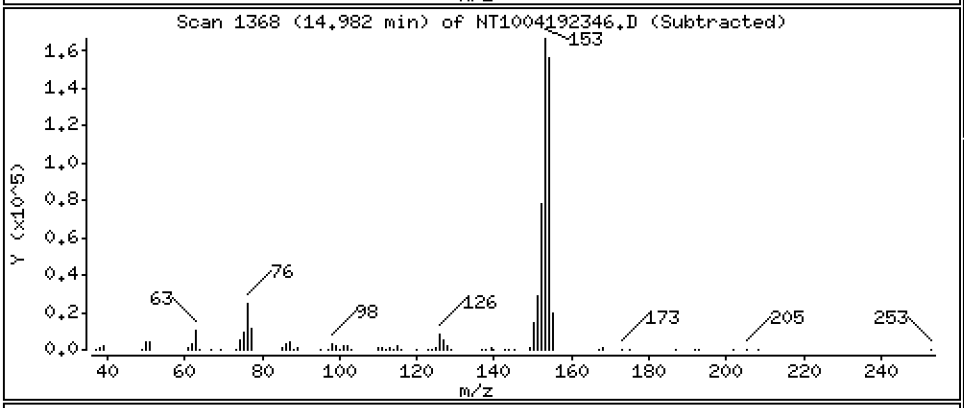
Column diameter: 0.25

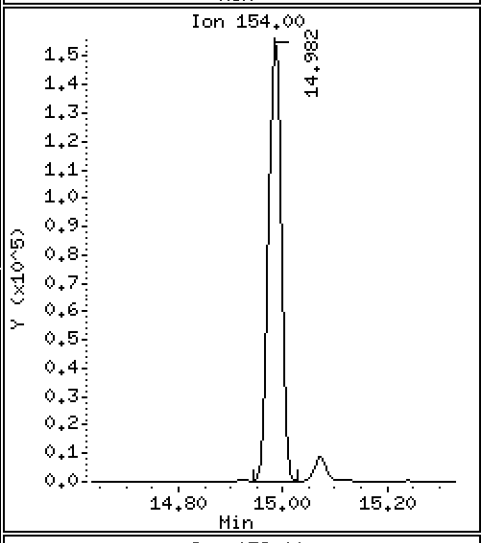
44 Acenaphthene

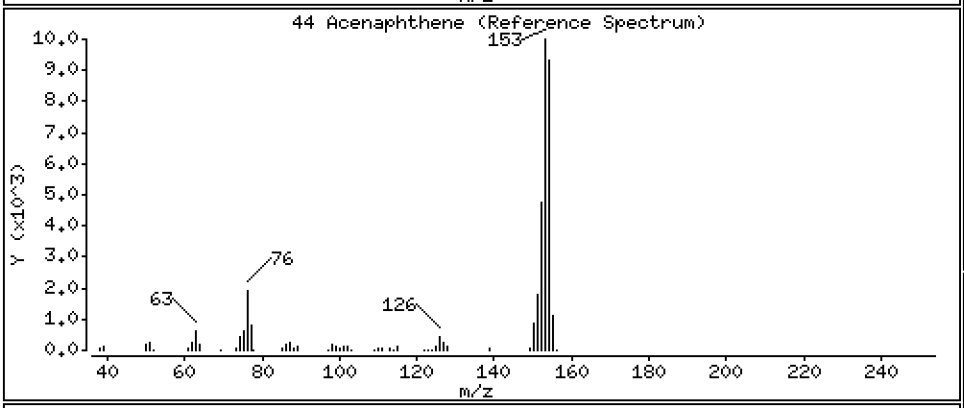
Concentration: 3.229 ug/mL

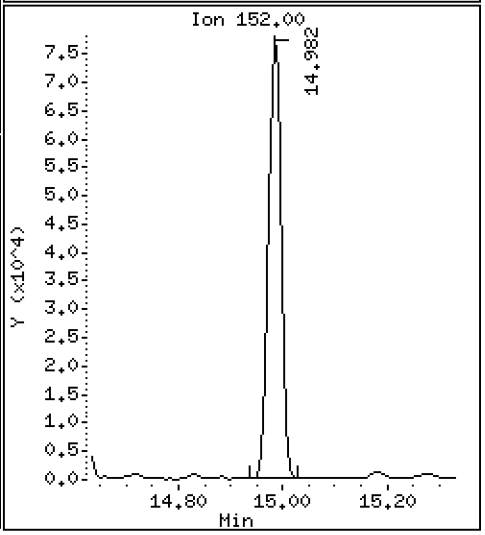


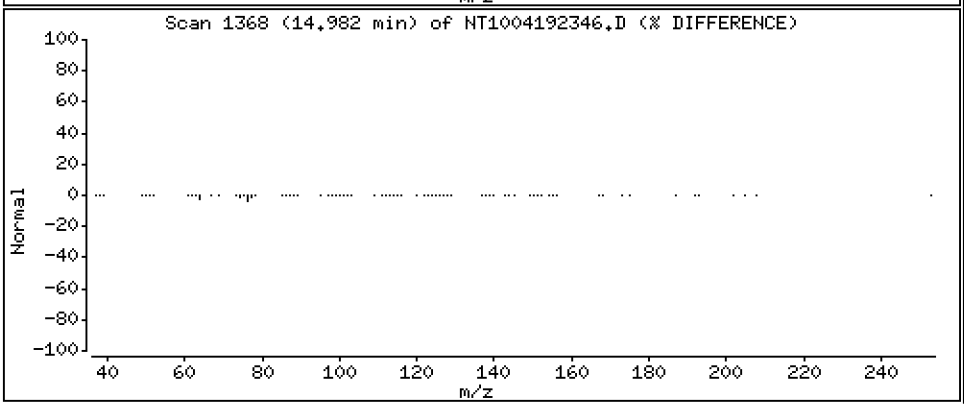












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

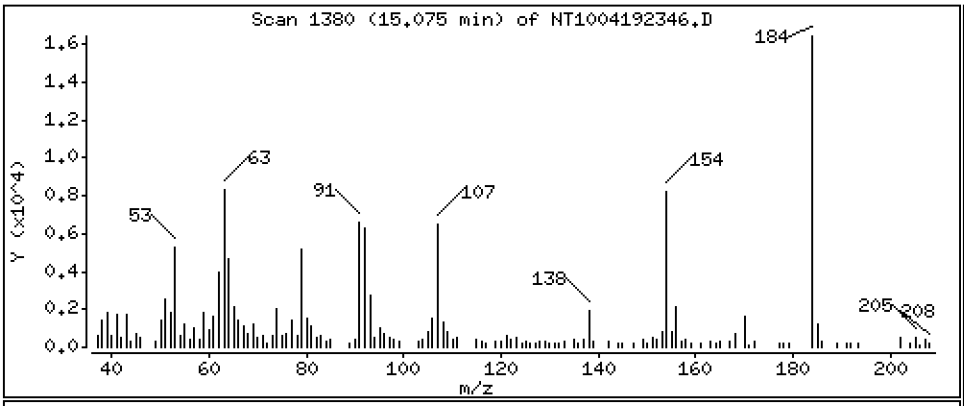
Operator: VTS

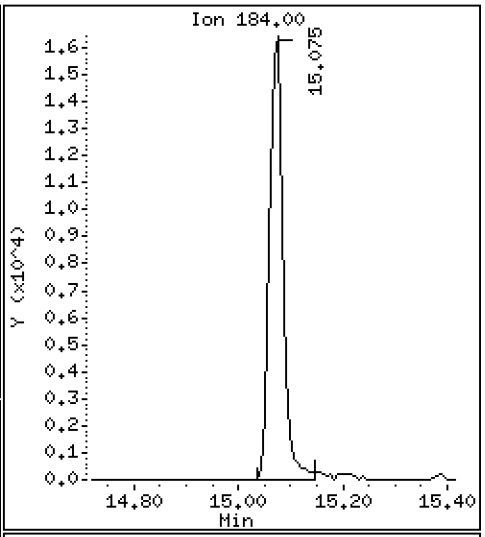
Column phase: ZB-5msi

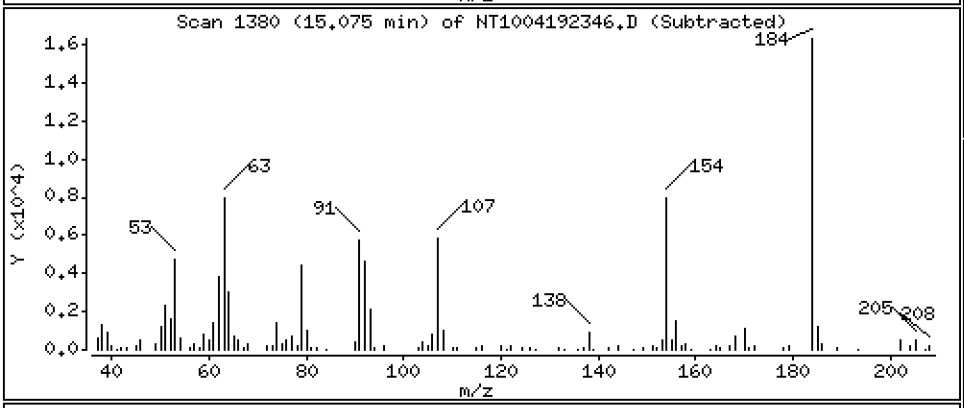
Column diameter: 0.25

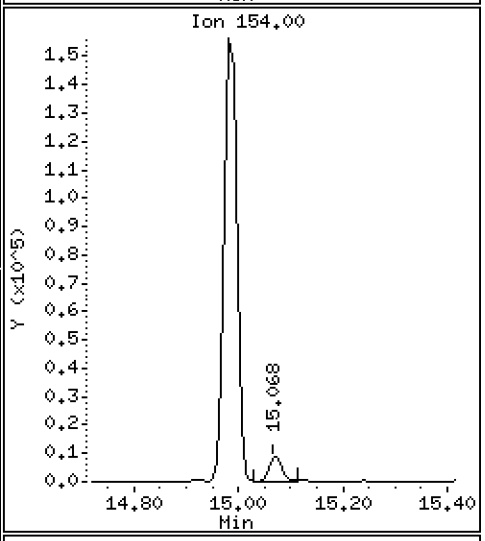
45 2,4-Dinitrophenol

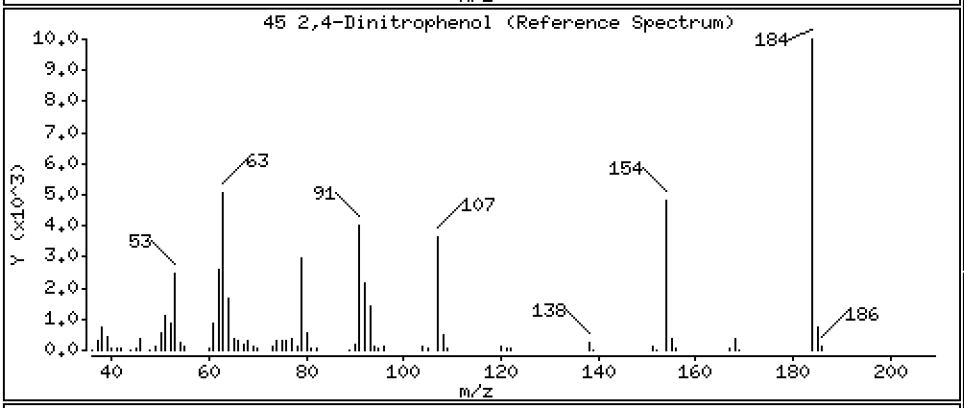
Concentration: 2.500 ug/mL

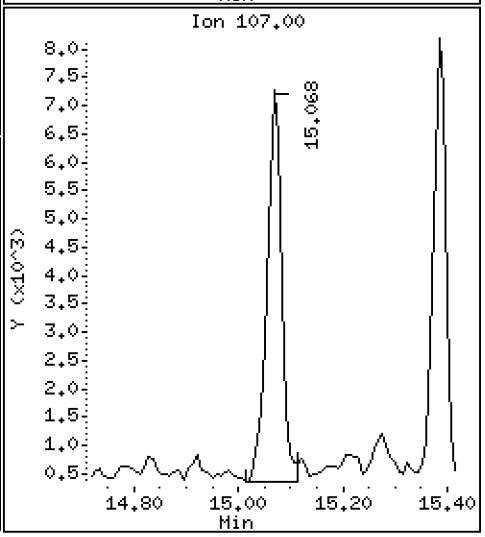


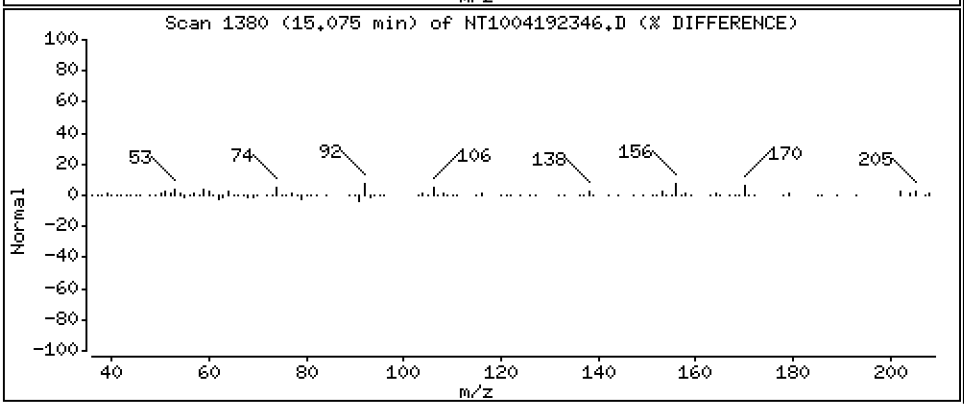












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

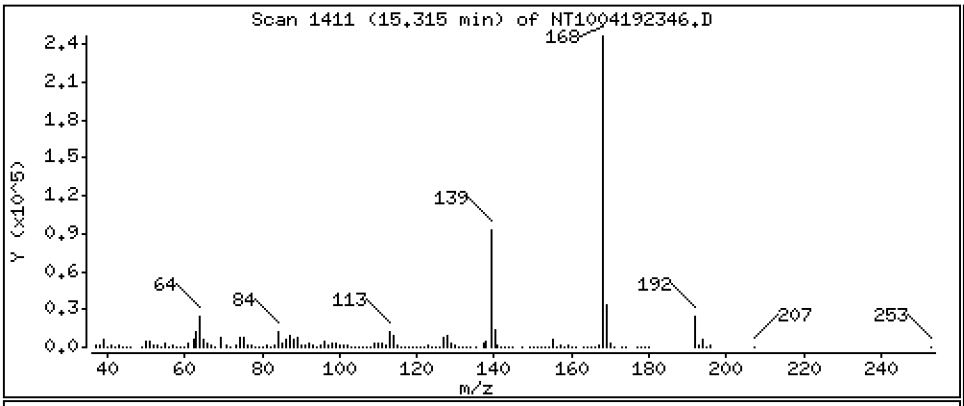
Operator: VTS

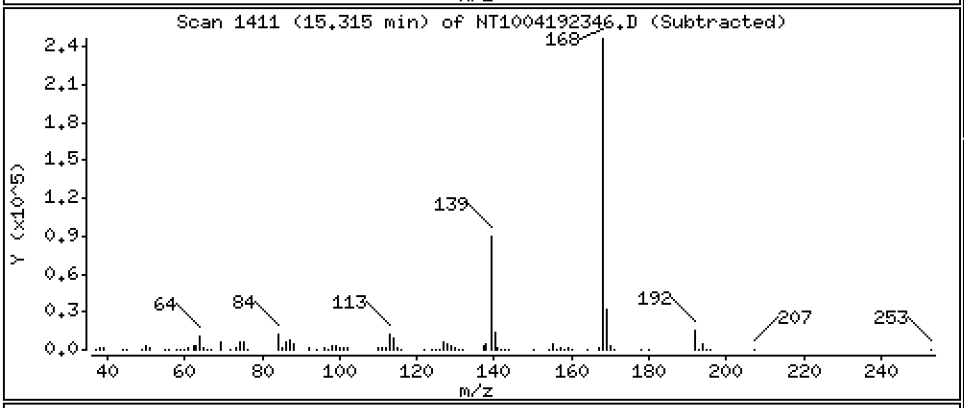
Column phase: ZB-5msi

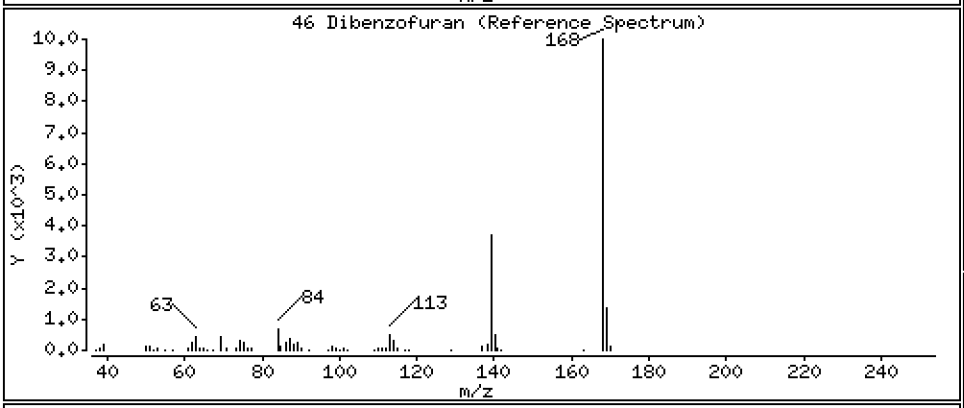
Column diameter: 0.25

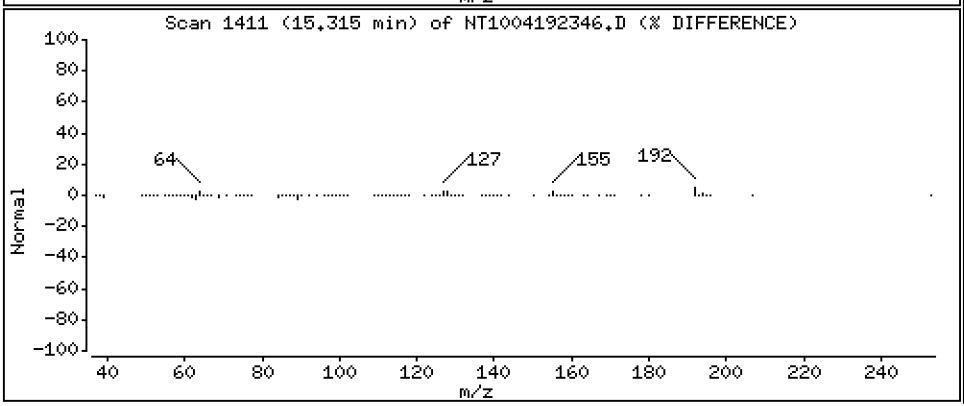
46 Dibenzofuran

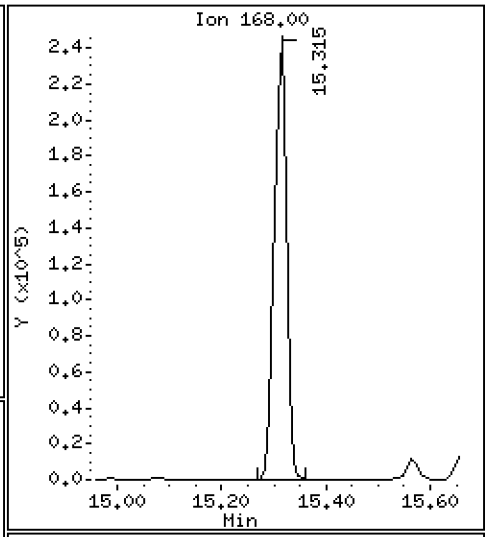
Concentration: 3.172 ug/mL

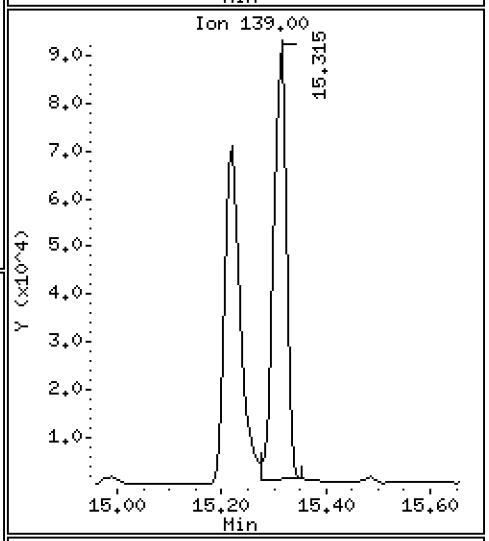


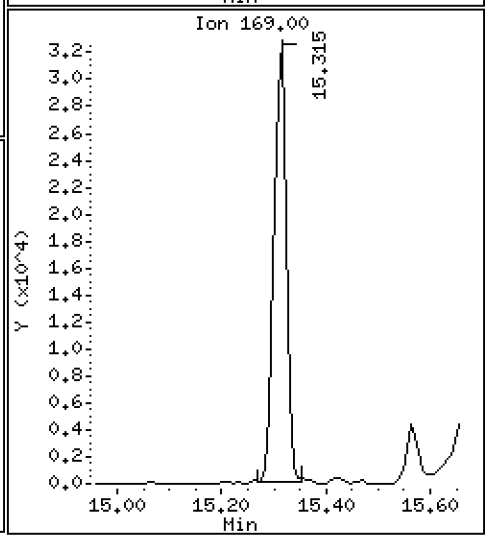












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192346.D

Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

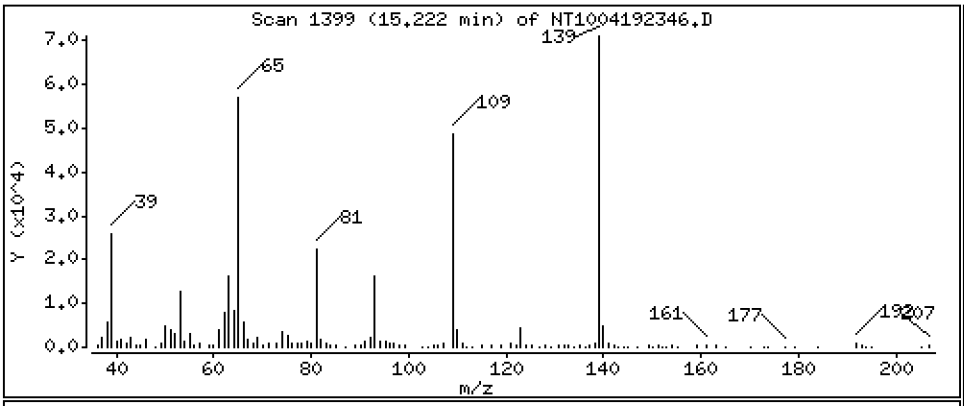
Operator: VTS

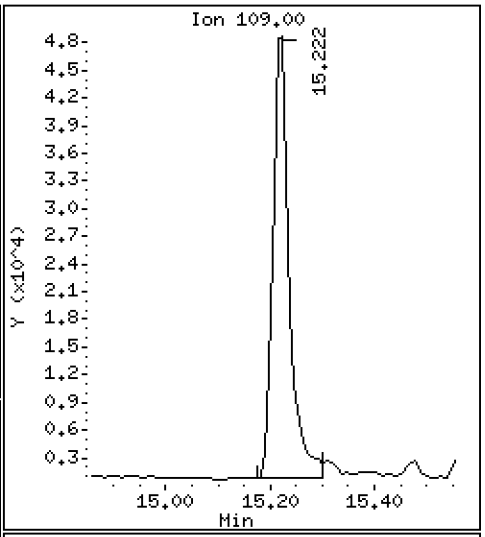
Column phase: ZB-5msi

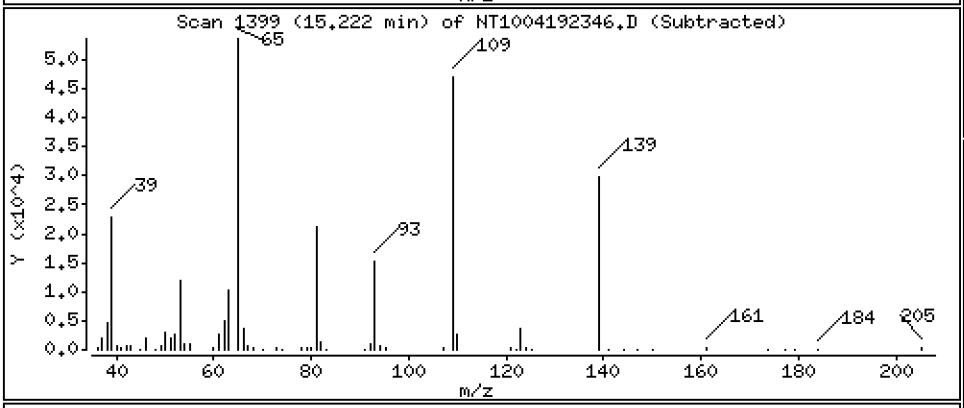
Column diameter: 0.25

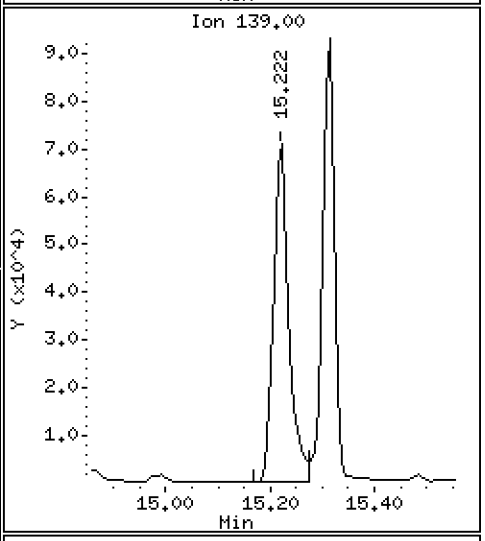
47 4-Nitrophenol

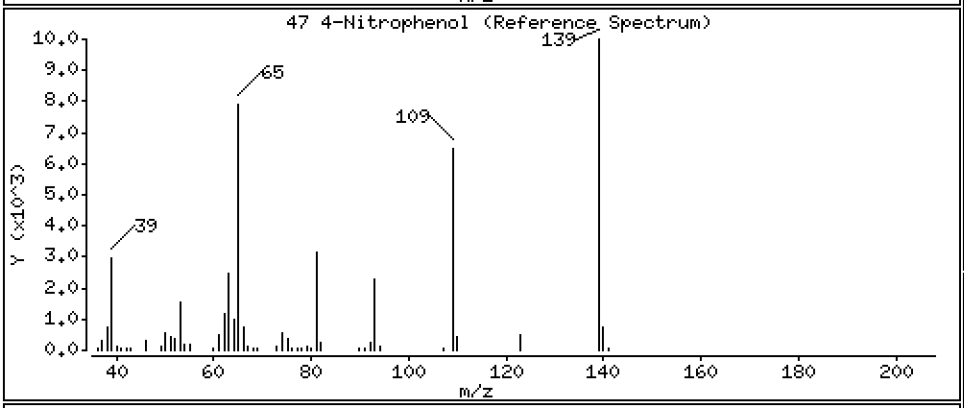
Concentration: 7.801 ug/mL

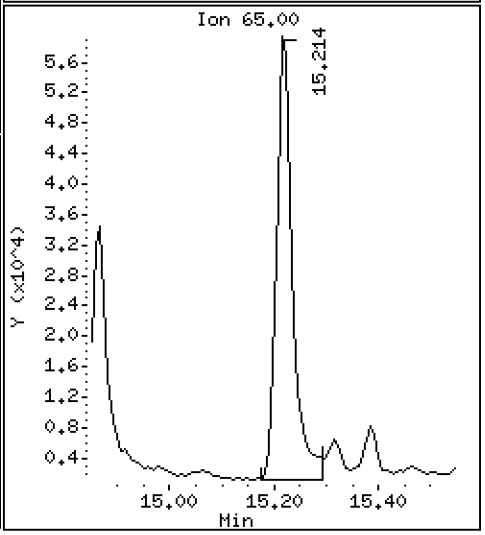


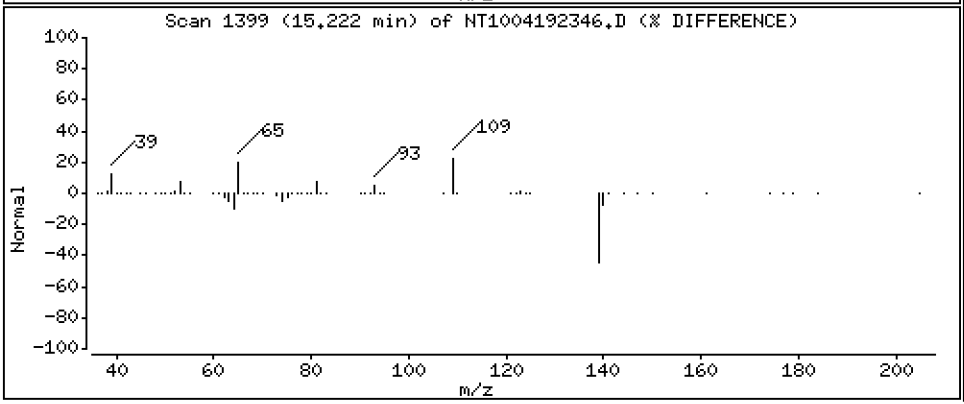












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

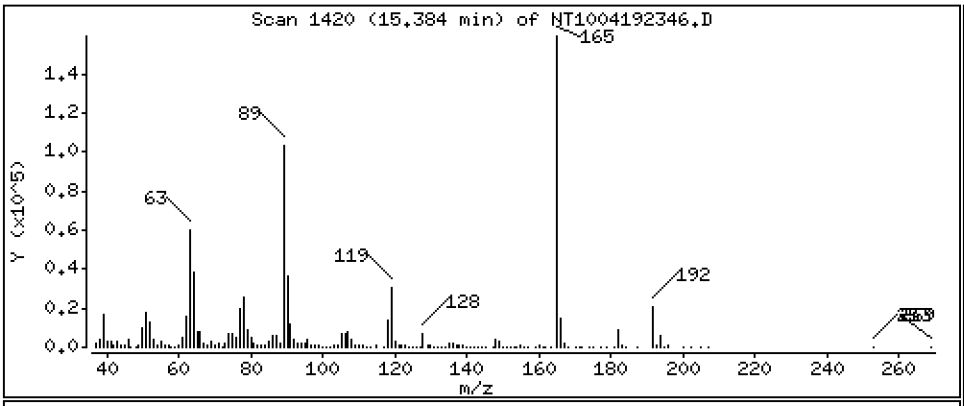
Operator: VTS

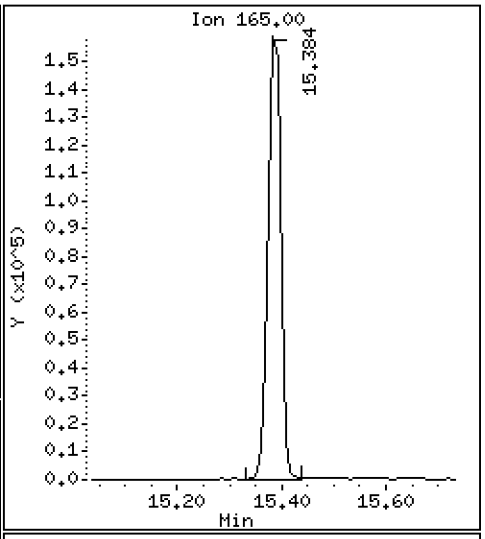
Column phase: ZB-5msi

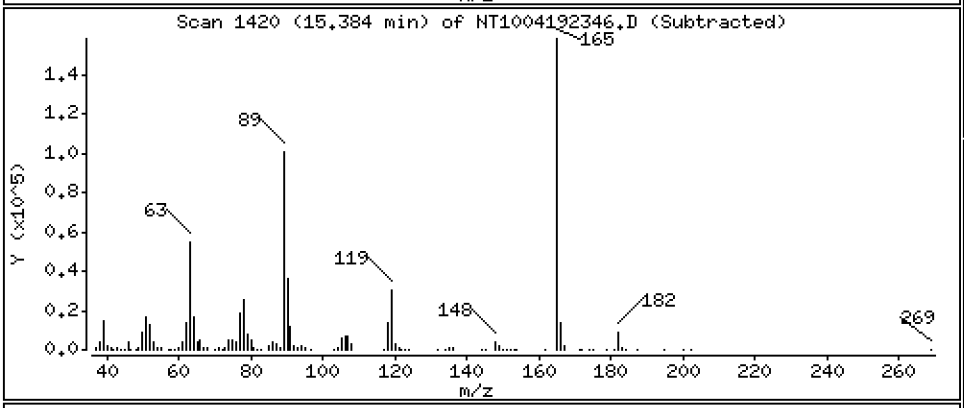
Column diameter: 0.25

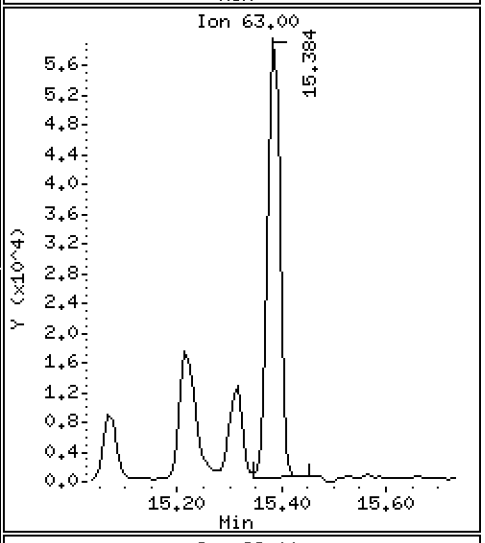
48 2,4-Dinitrotoluene

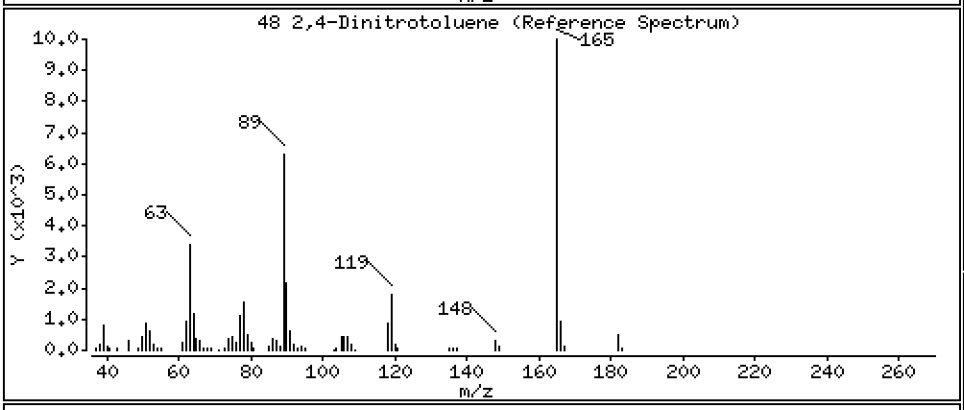
Concentration: 9.125 ug/mL

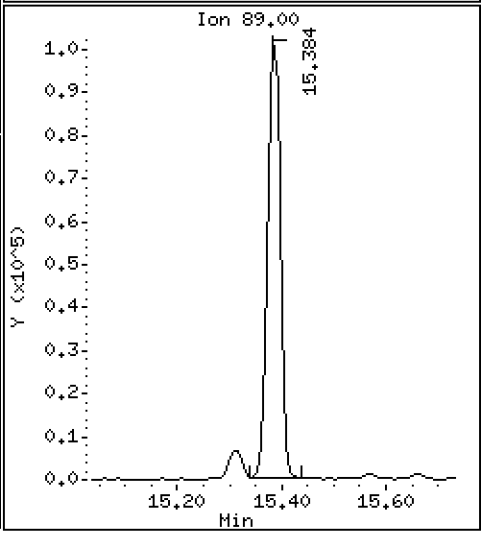


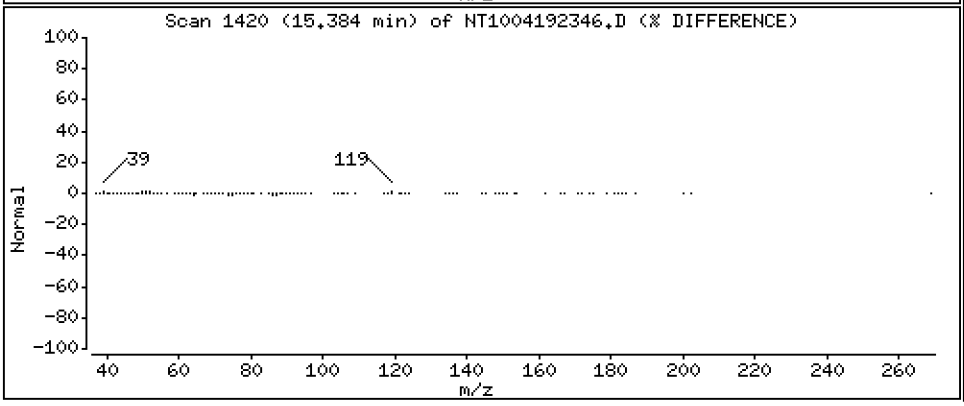












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

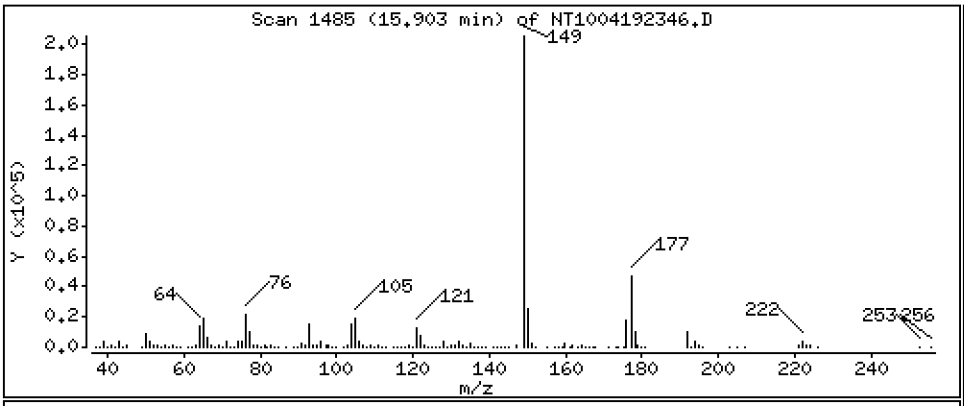
Operator: VTS

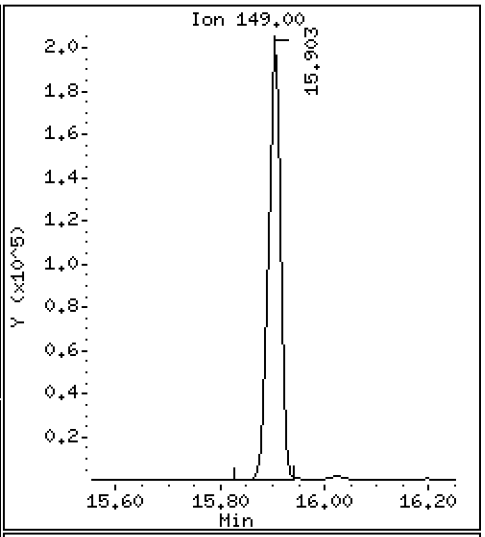
Column phase: ZB-5msi

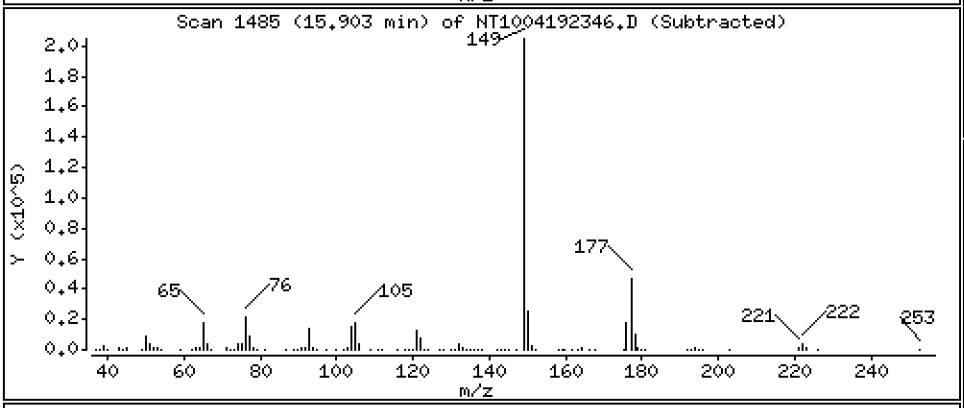
Column diameter: 0.25

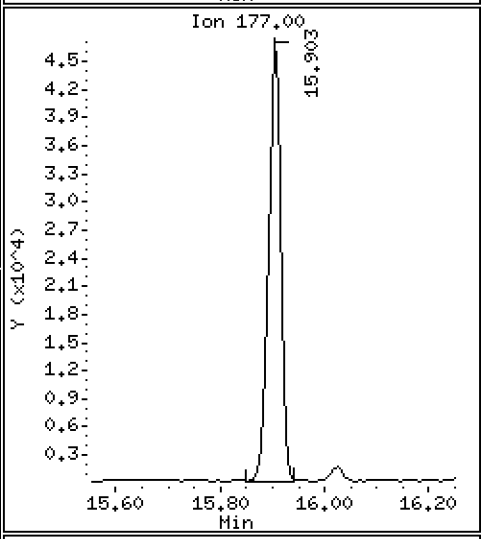
50 Diethylphthalate

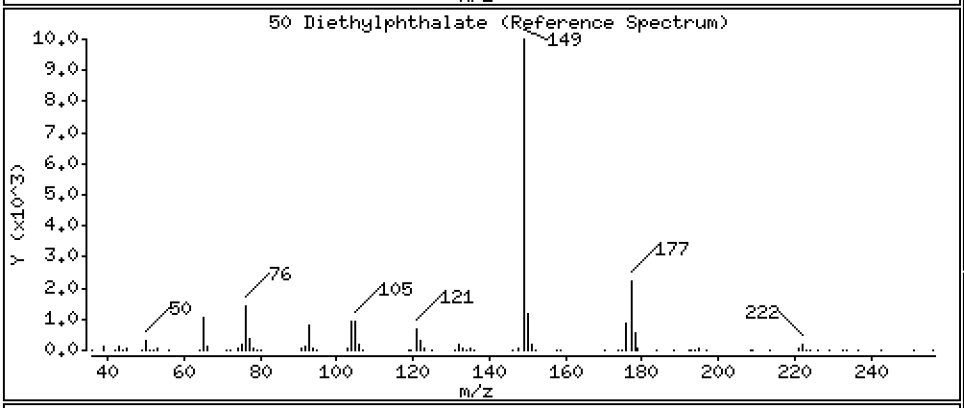
Concentration: 3.745 ug/mL

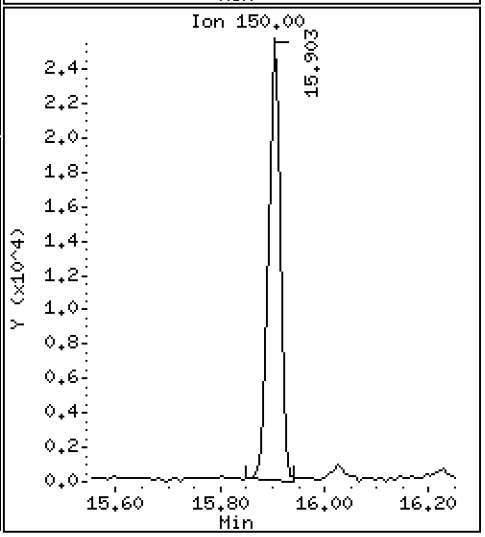


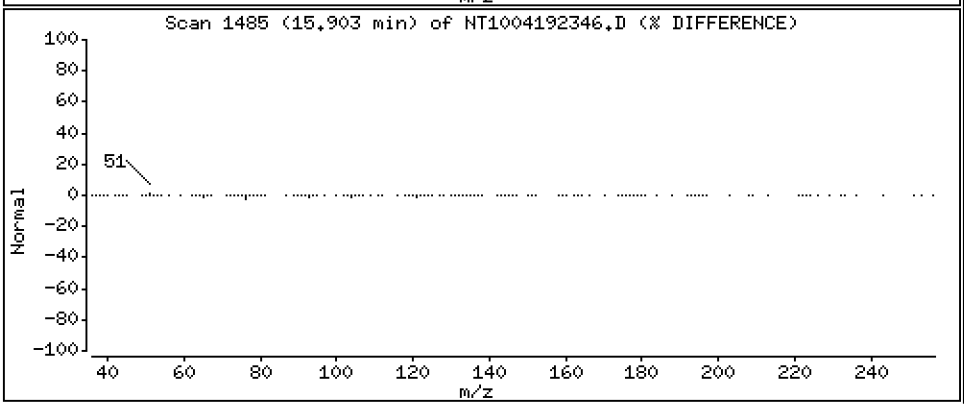












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

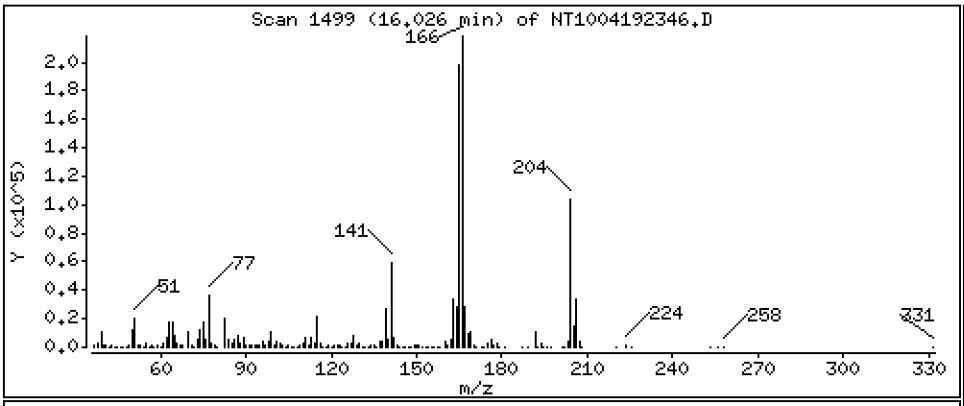
Operator: VTS

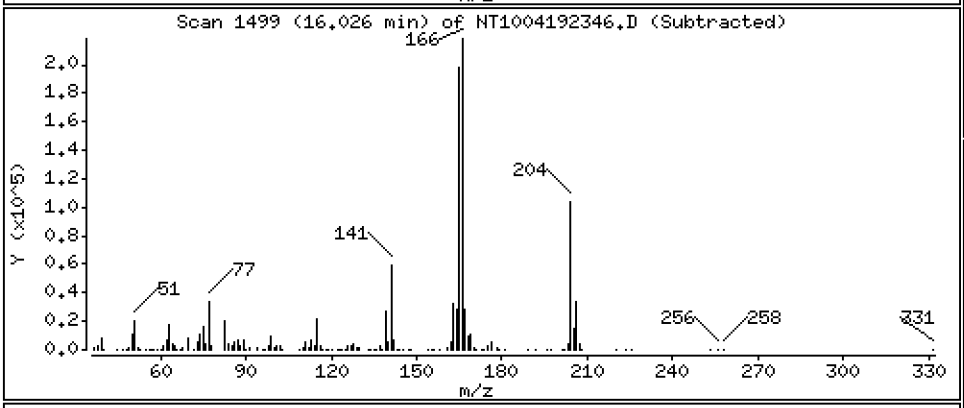
Column phase: ZB-5msi

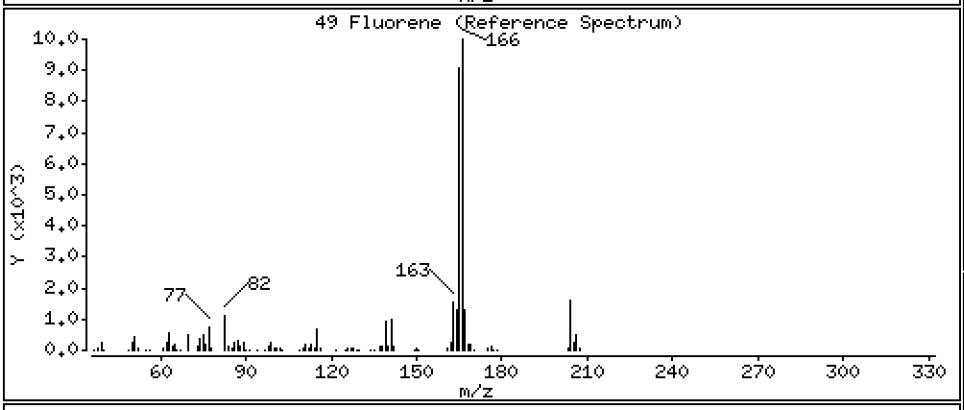
Column diameter: 0.25

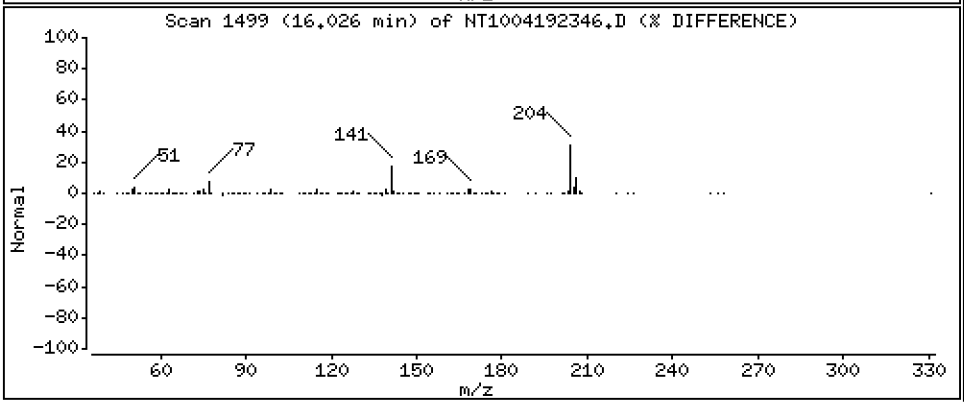
49 Fluorene

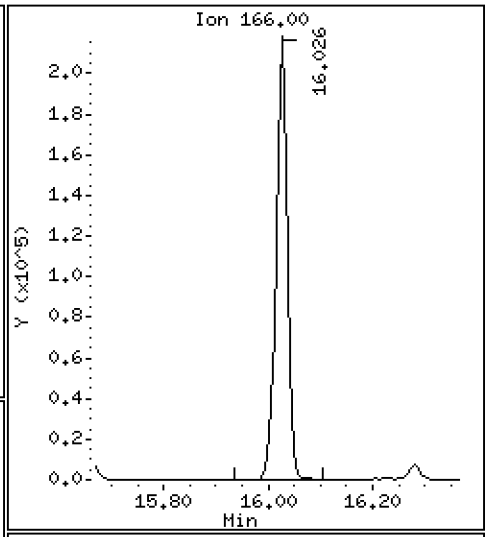
Concentration: 3.746 ug/mL

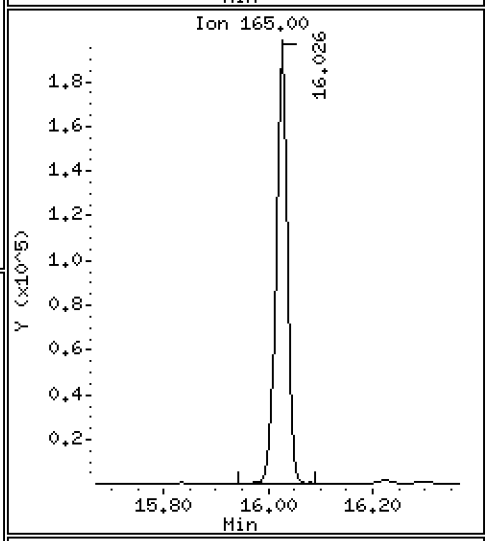


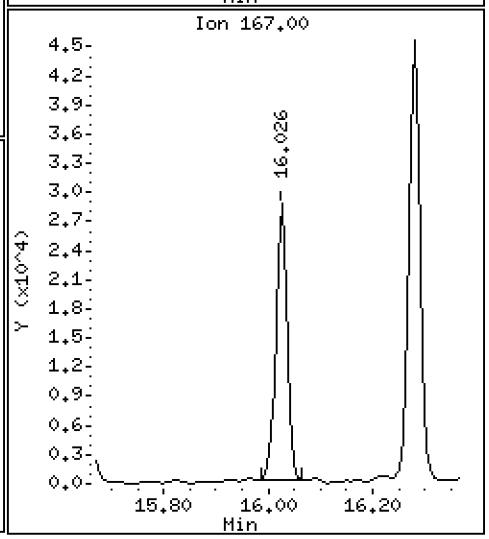












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

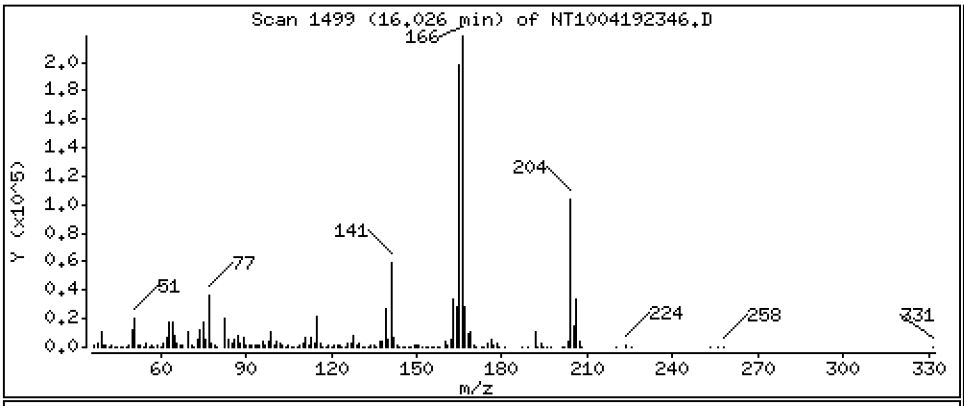
Operator: VTS

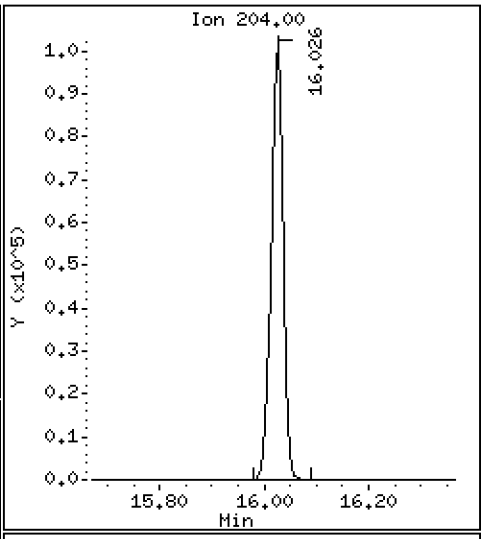
Column phase: ZB-5msi

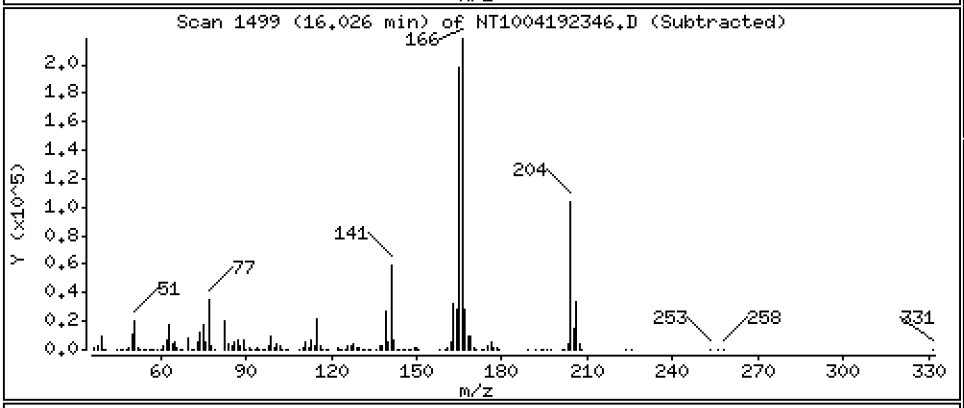
Column diameter: 0.25

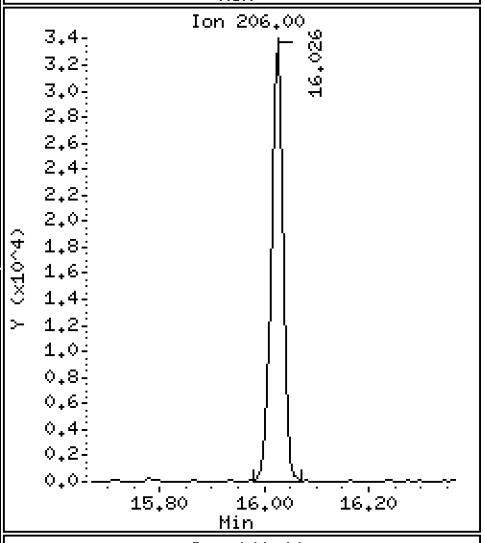
51 4-Chlorophenyl-phenylether

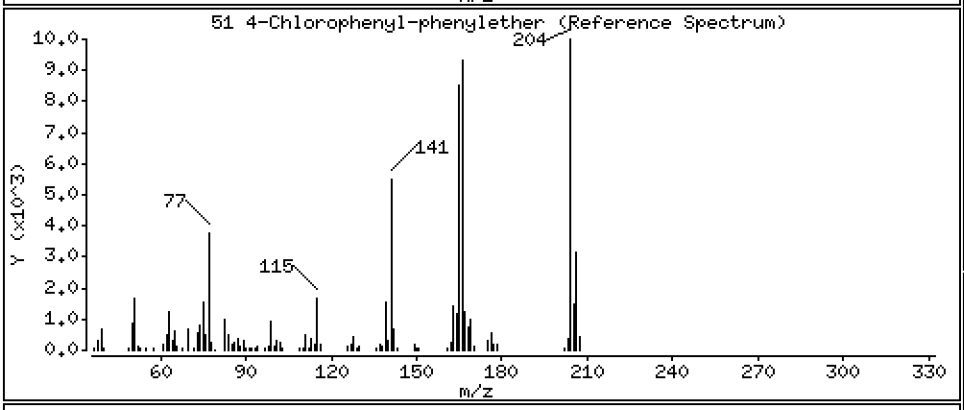
Concentration: 3.592 ug/mL

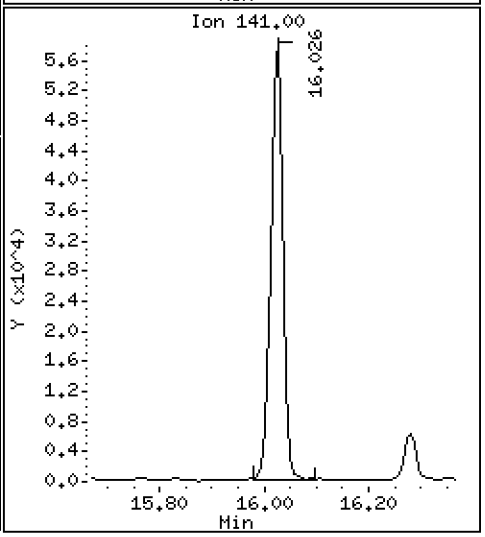


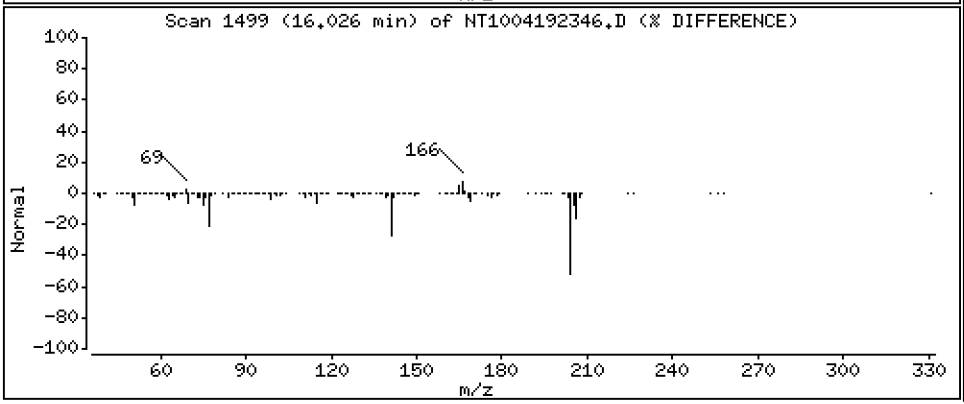












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

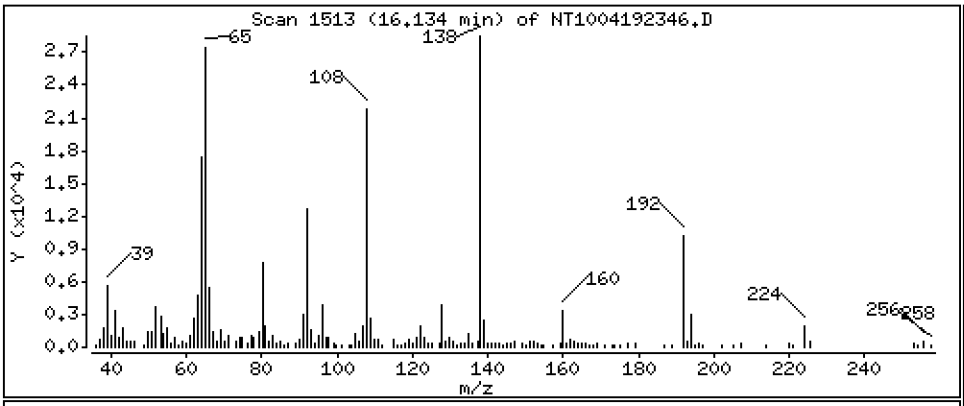
Operator: VTS

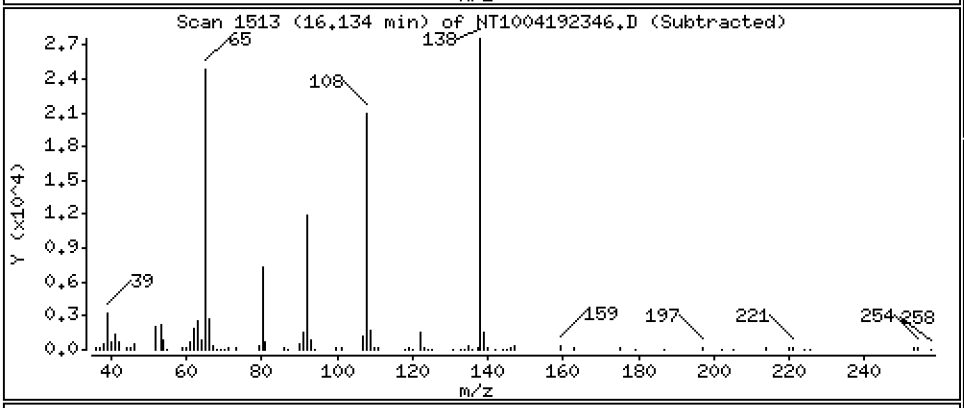
Column phase: ZB-5msi

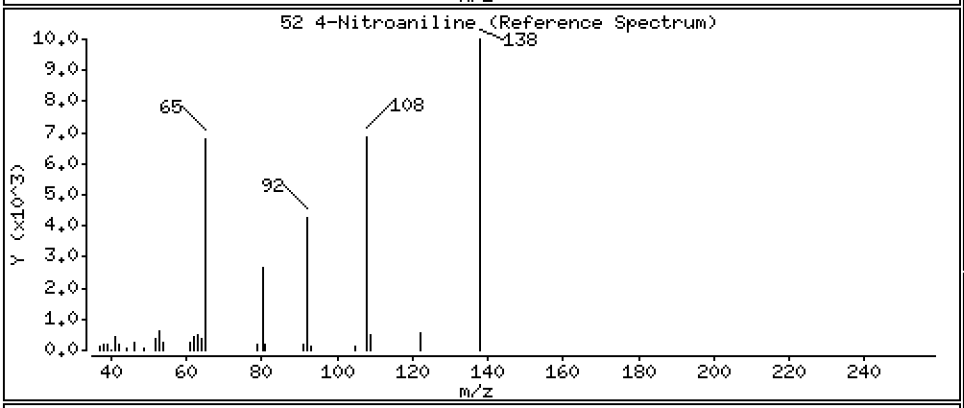
Column diameter: 0.25

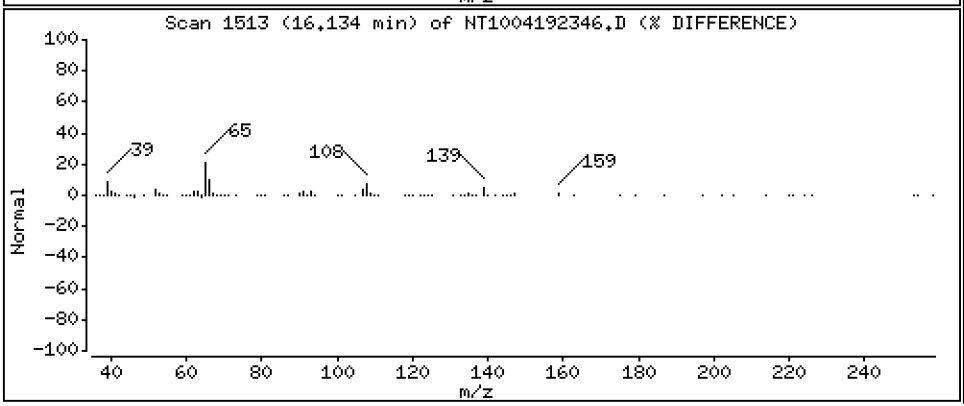
52 4-Nitroaniline

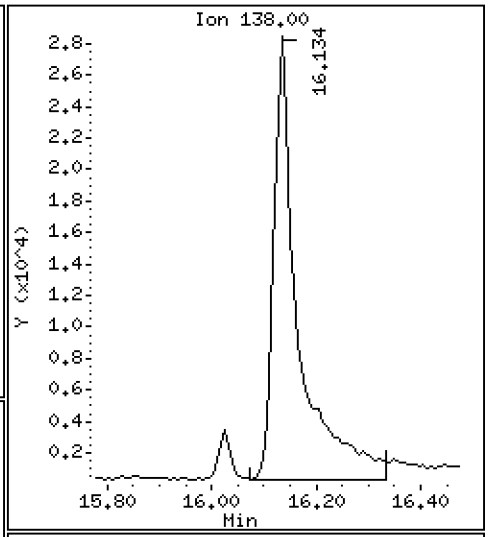
Concentration: 4.763 ug/mL

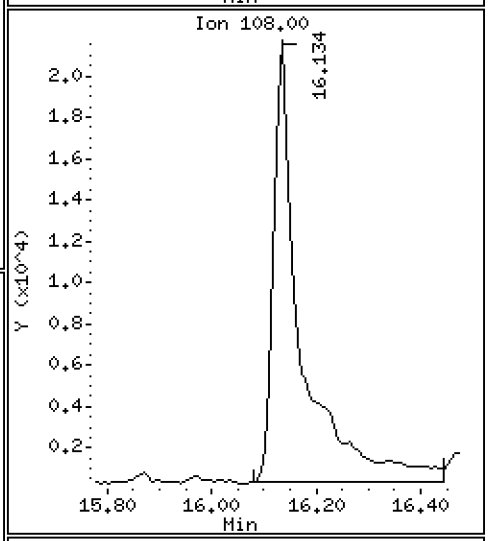


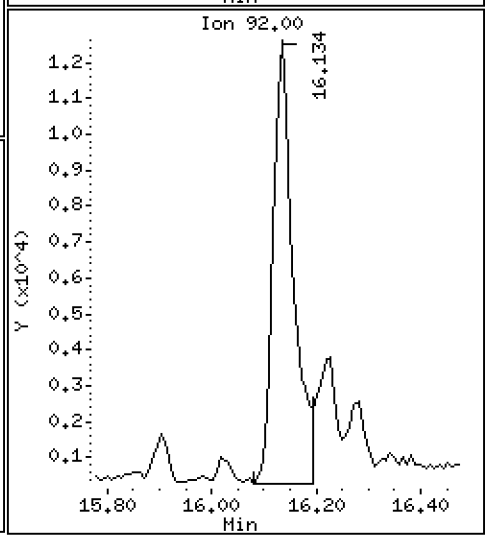












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

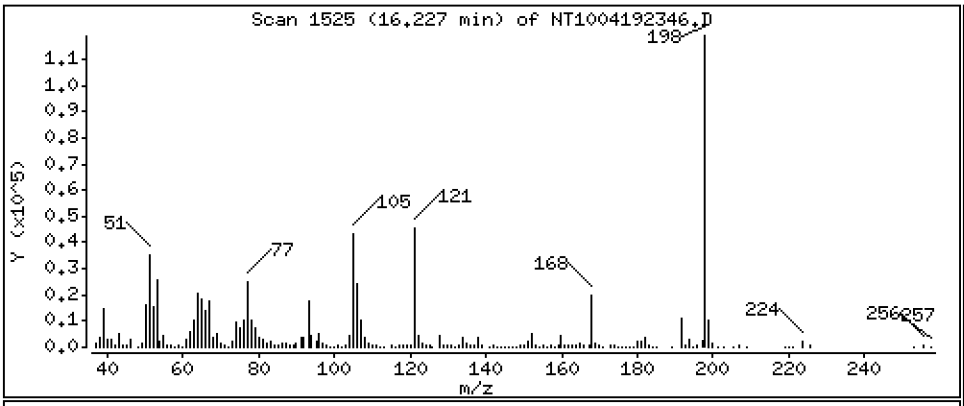
Operator: VTS

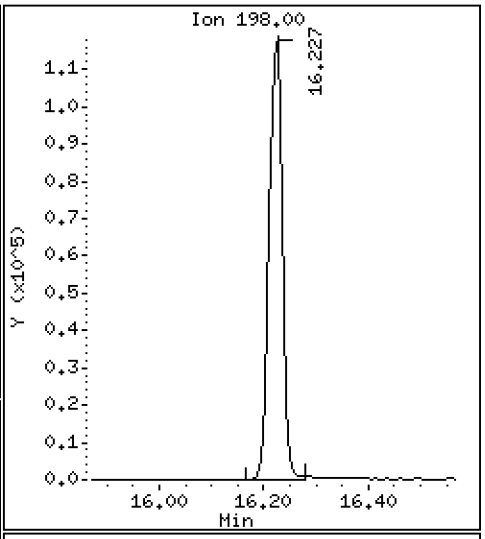
Column phase: ZB-5msi

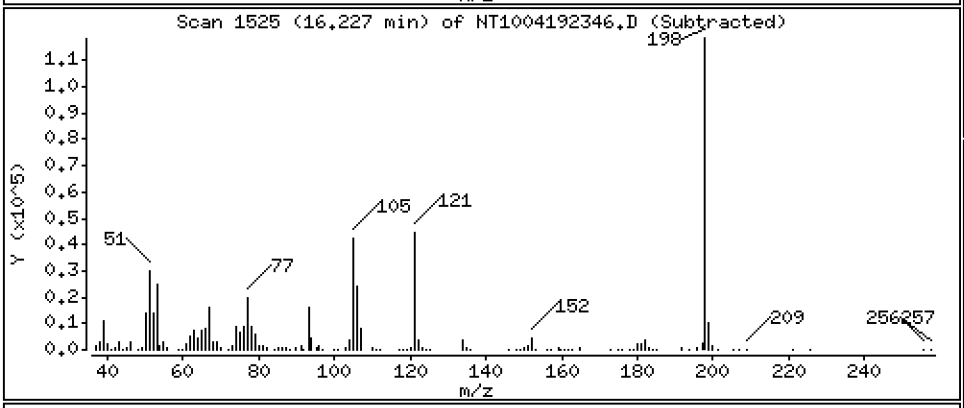
Column diameter: 0.25

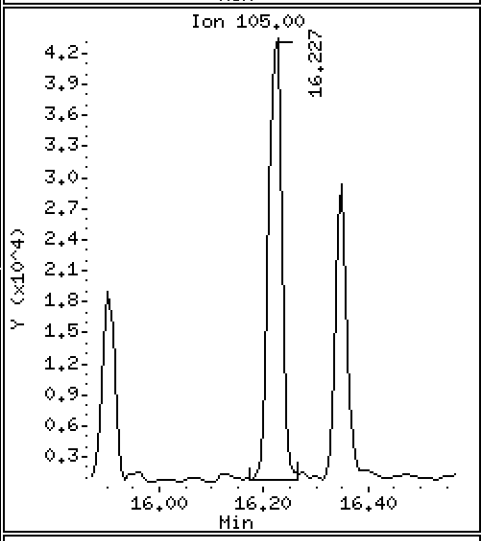
53 4,6-Dinitro-2-methylphenol

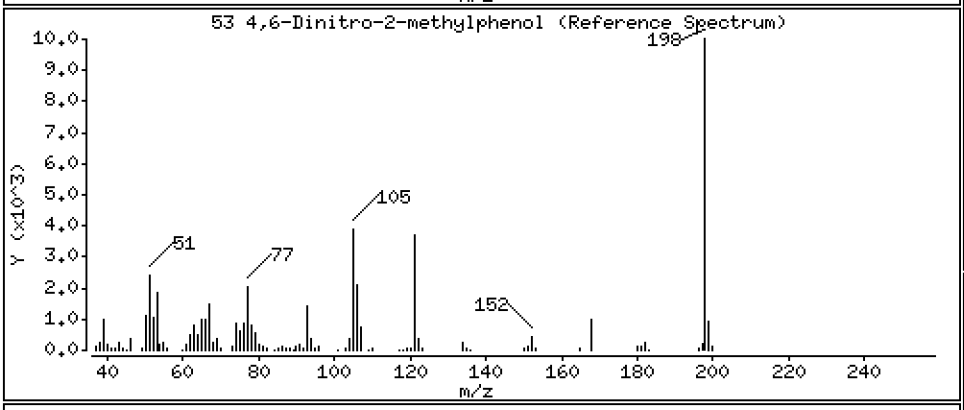
Concentration: 13.73 ug/mL

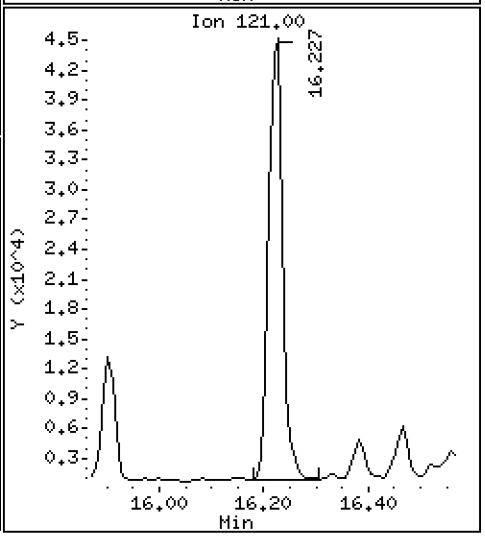


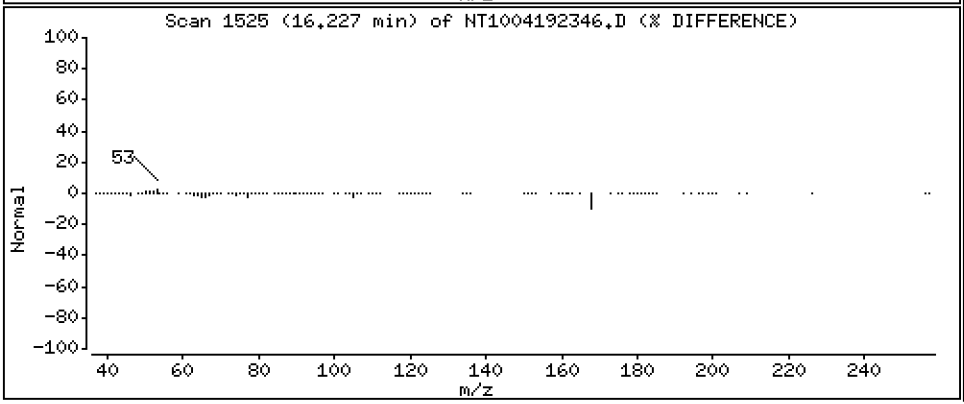












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192346.D

Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

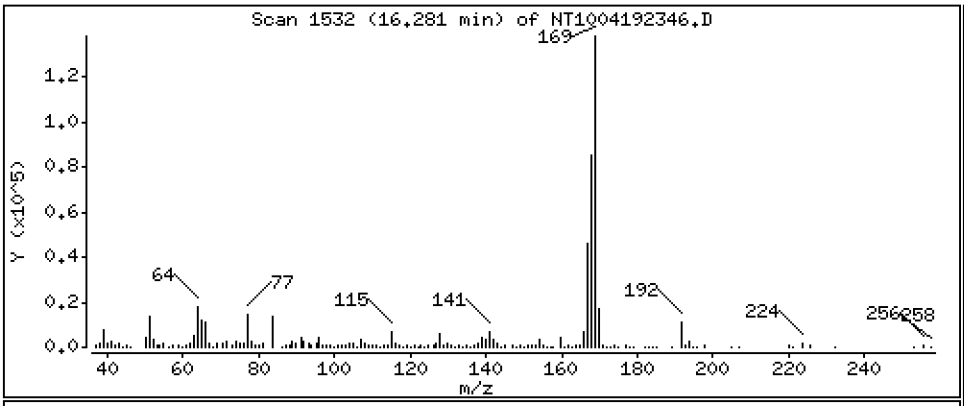
Operator: VTS

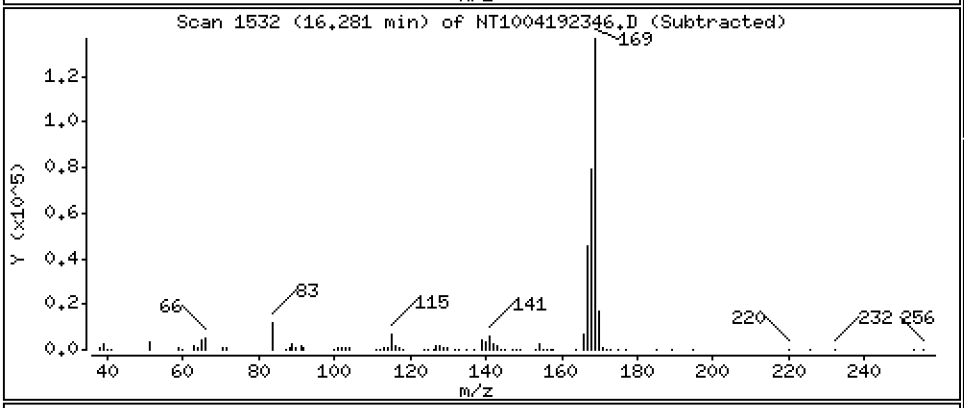
Column phase: ZB-5msi

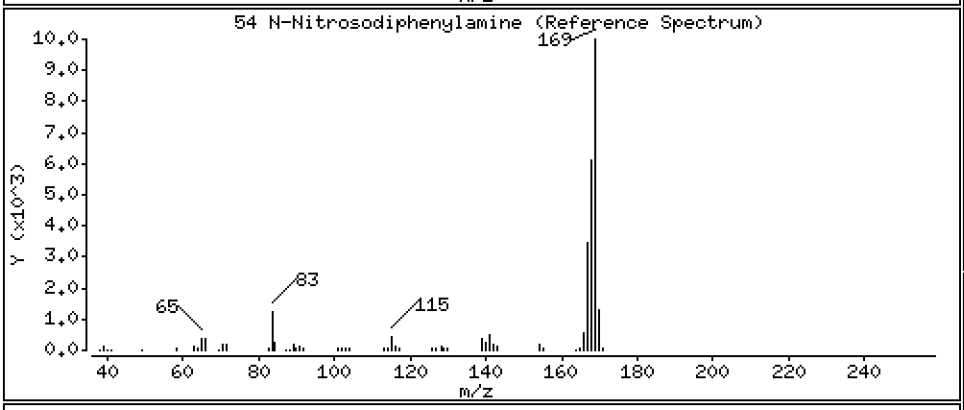
Column diameter: 0.25

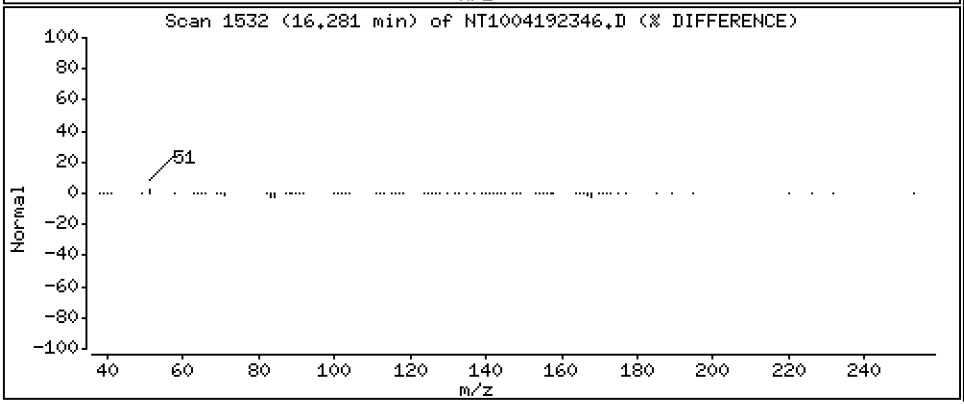
54 N-Nitrosodiphenylamine

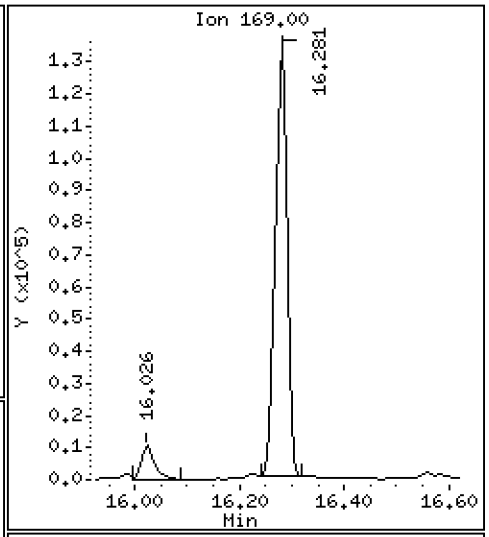
Concentration: 3.232 ug/mL

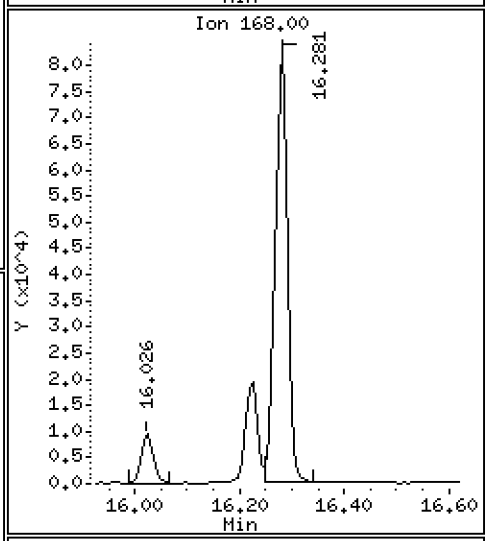


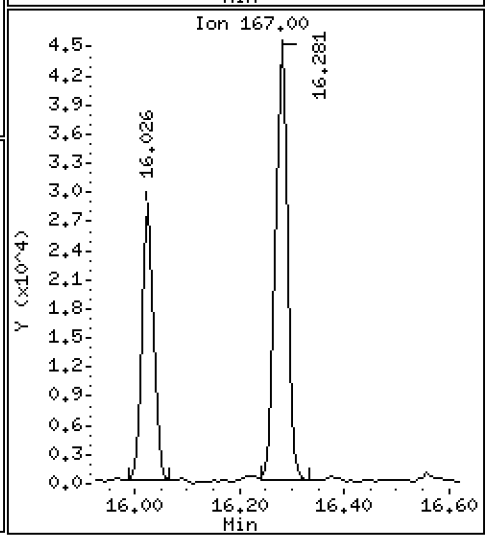












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

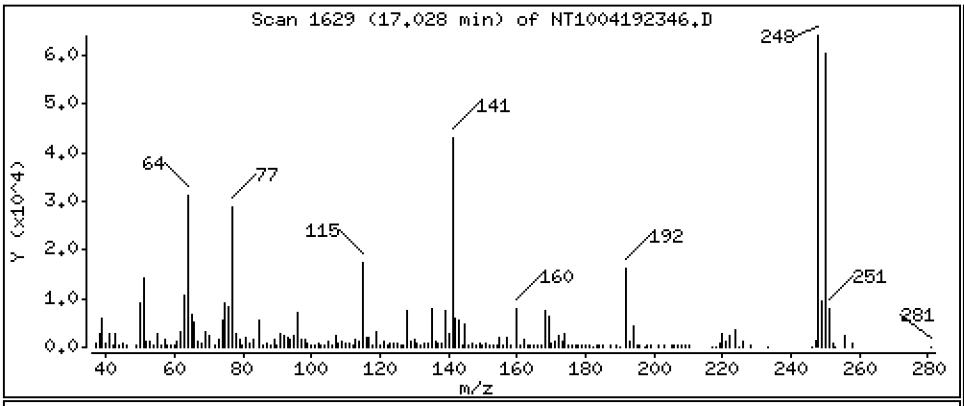
Operator: VTS

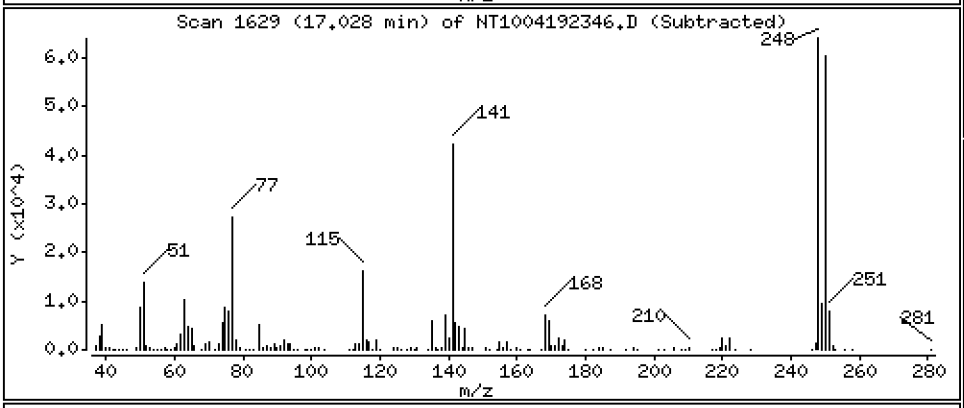
Column phase: ZB-5msi

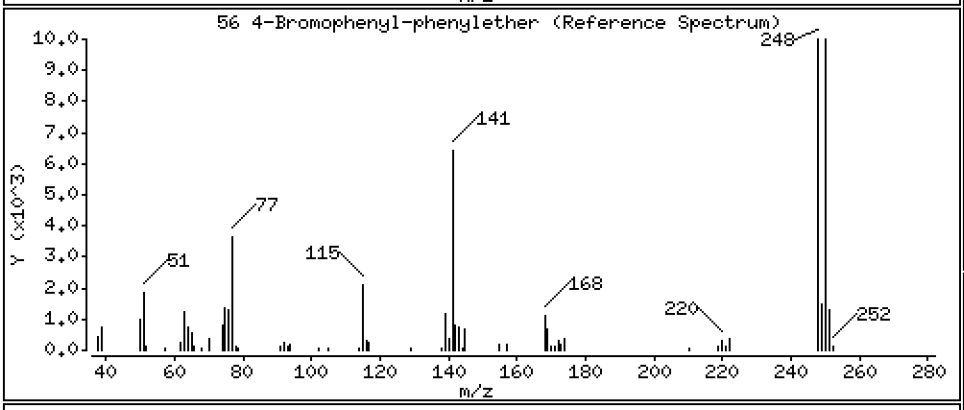
Column diameter: 0.25

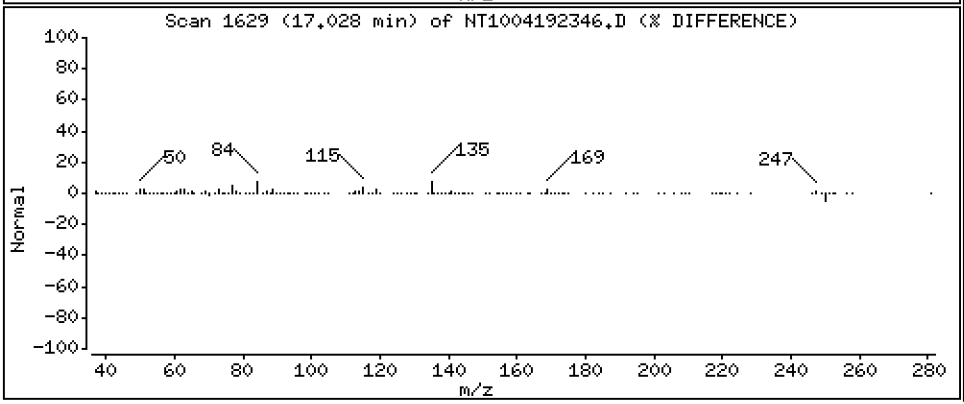
56 4-Bromophenyl-phenylether

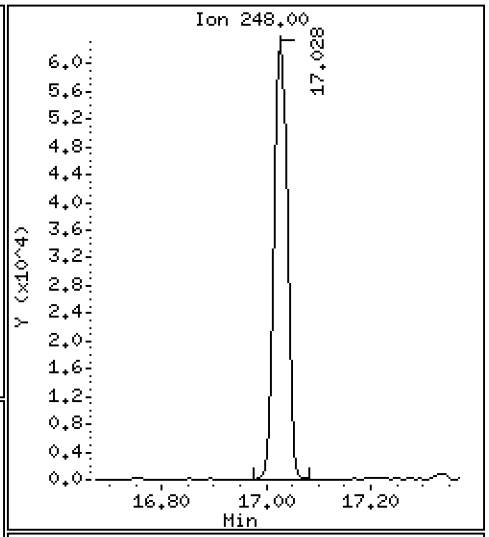
Concentration: 4.036 ug/mL

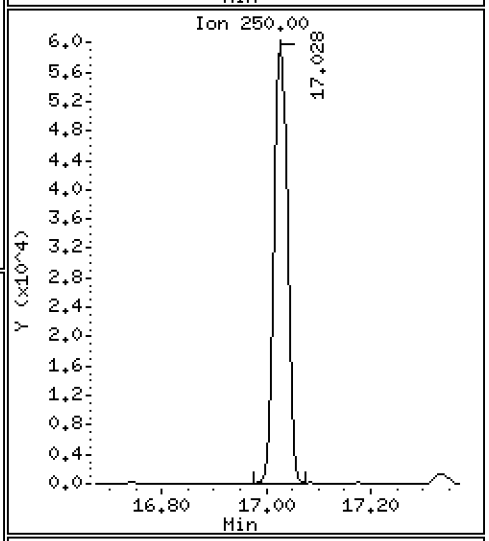


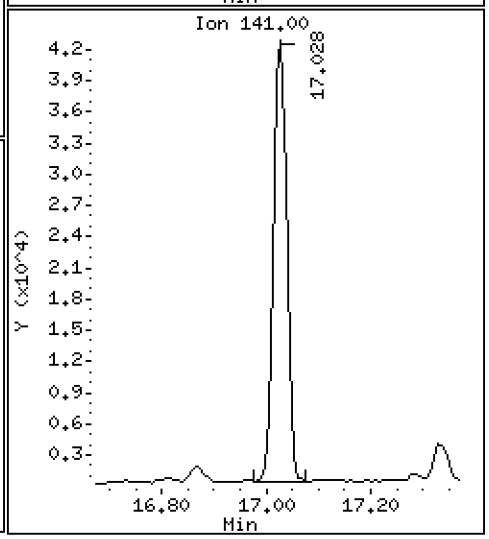












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

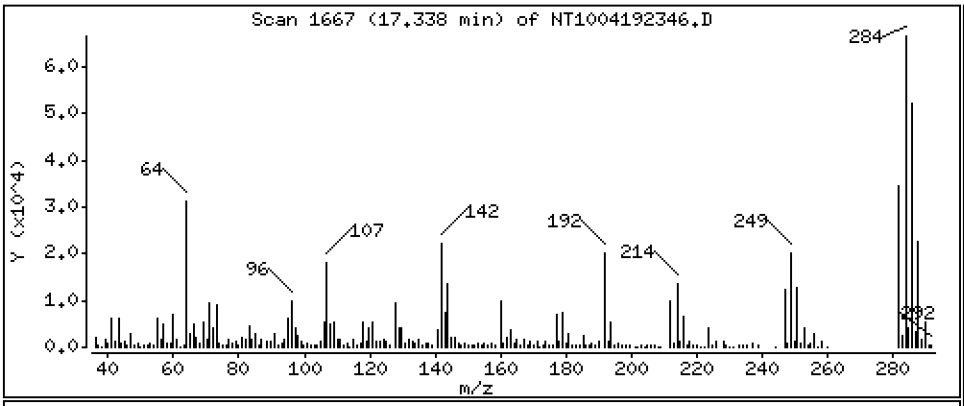
Operator: VTS

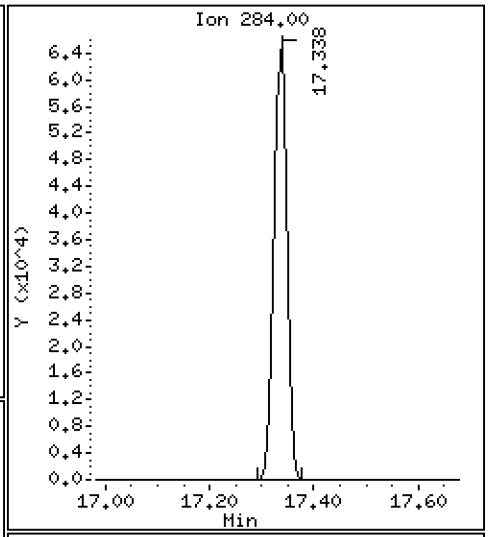
Column phase: ZB-5msi

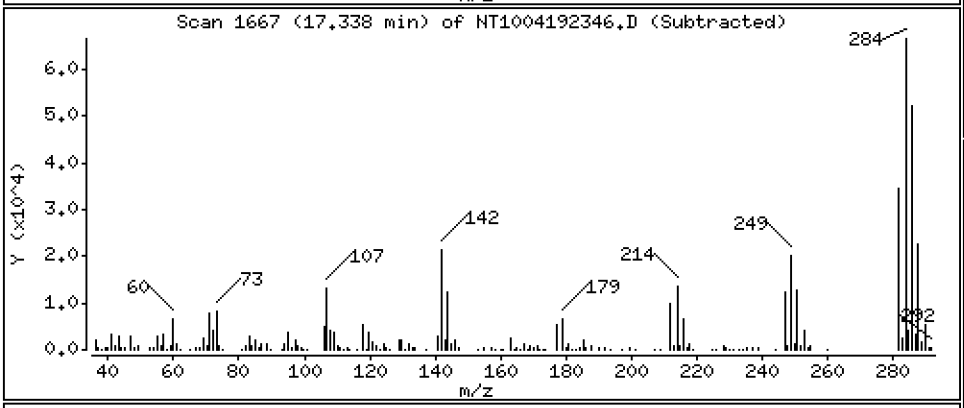
Column diameter: 0.25

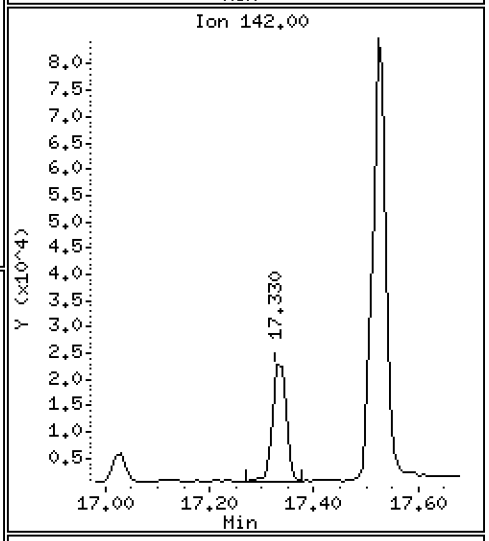
57 Hexachlorobenzene

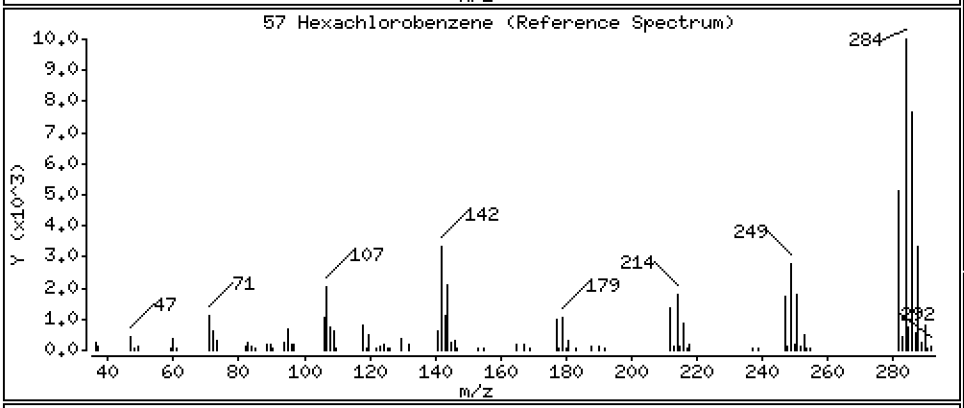
Concentration: 3.850 ug/mL

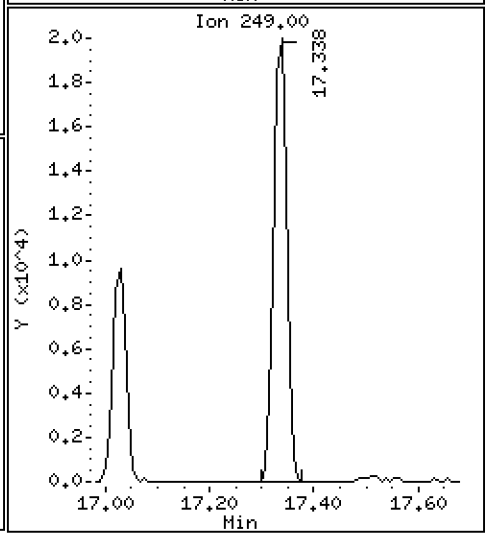


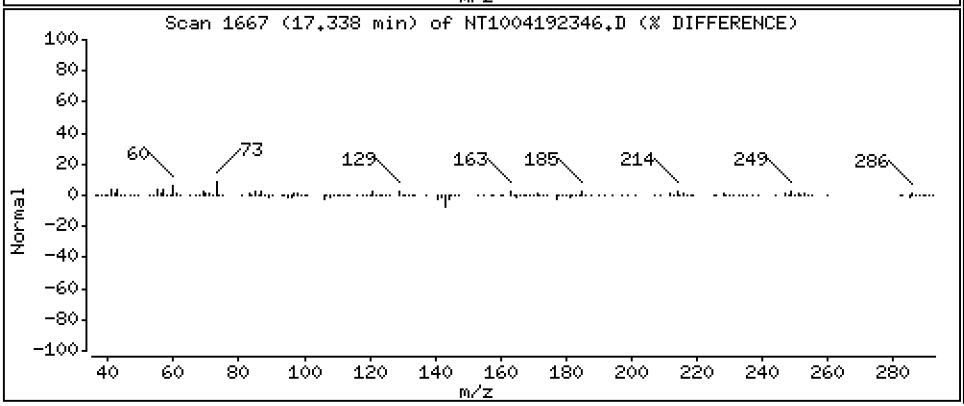












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

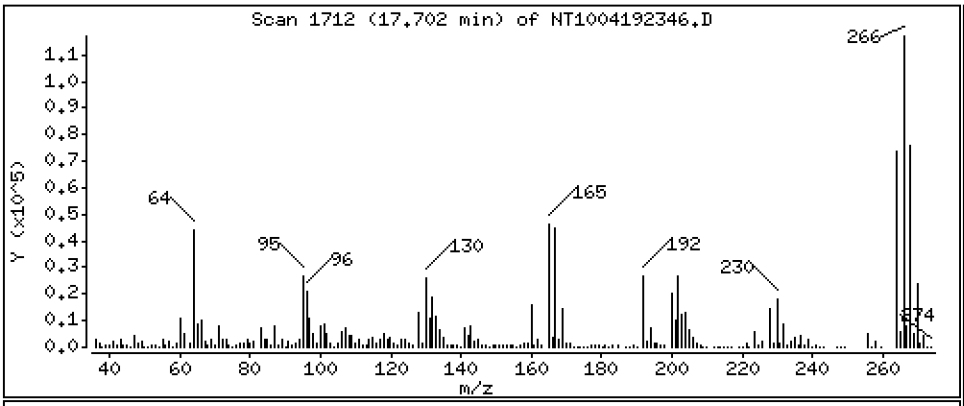
Operator: VTS

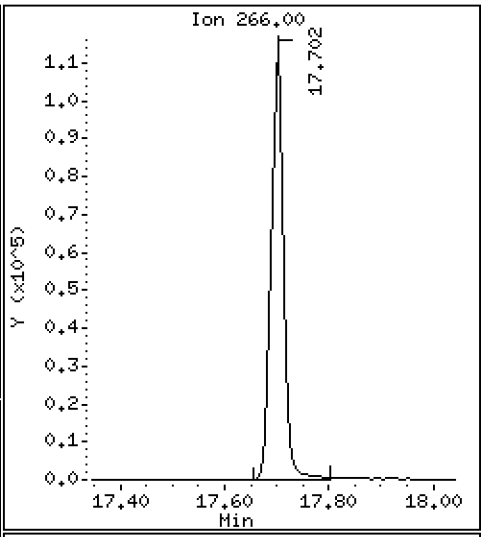
Column phase: ZB-5msi

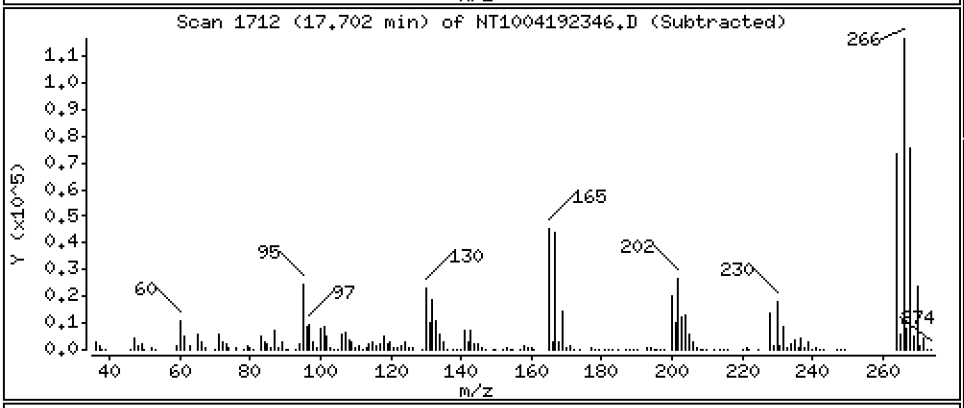
Column diameter: 0.25

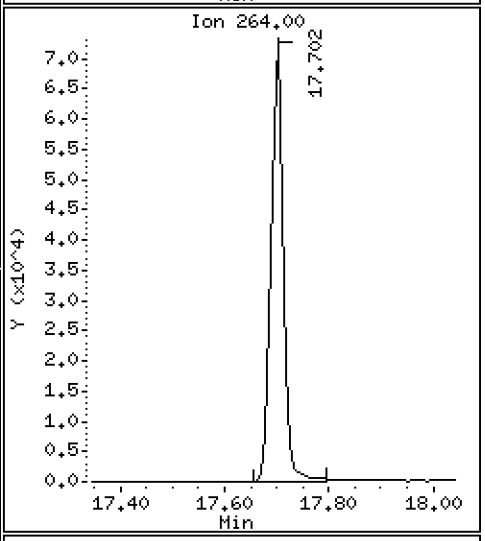
58 Pentachlorophenol

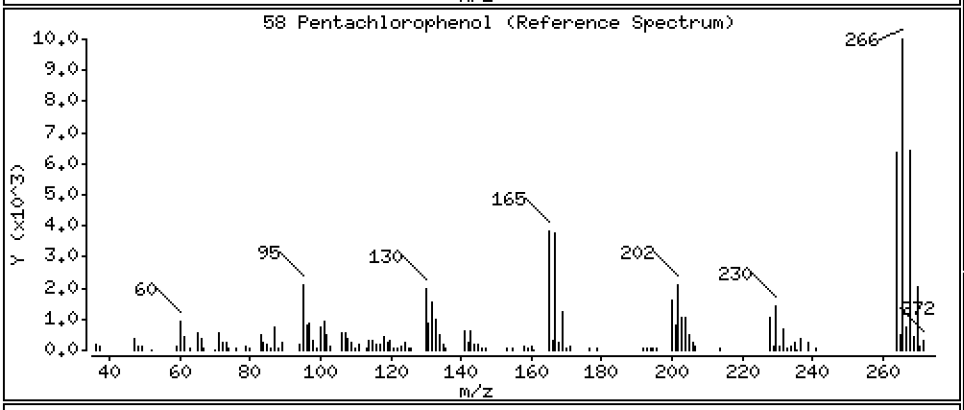
Concentration: 10.88 ug/mL

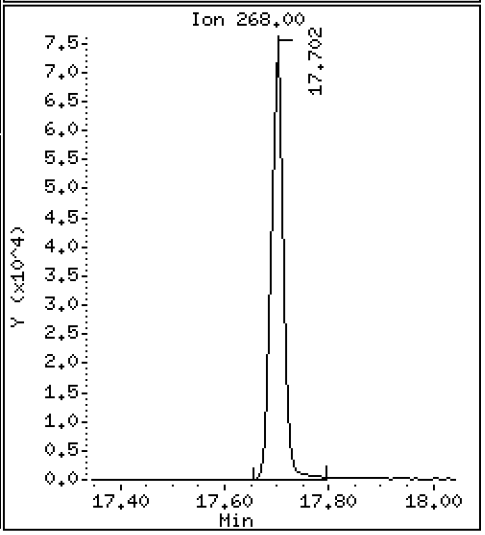


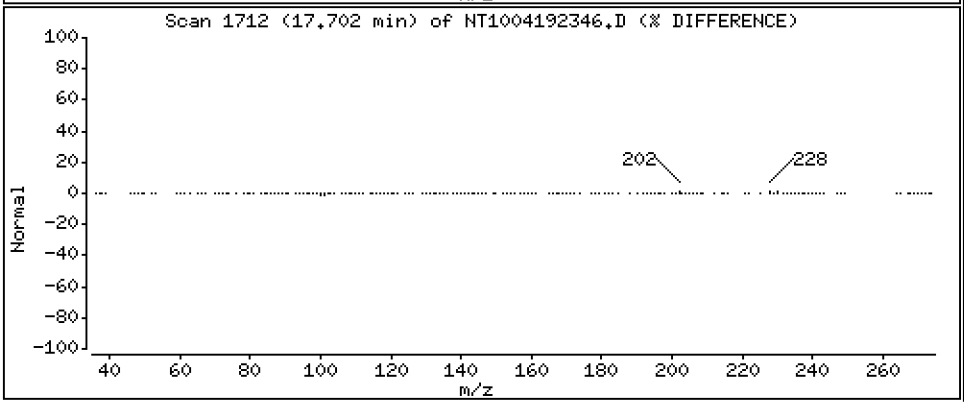












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

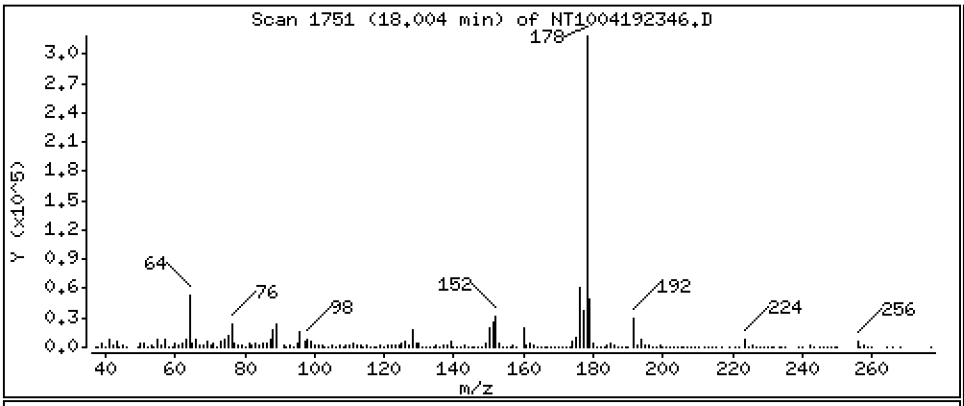
Operator: VTS

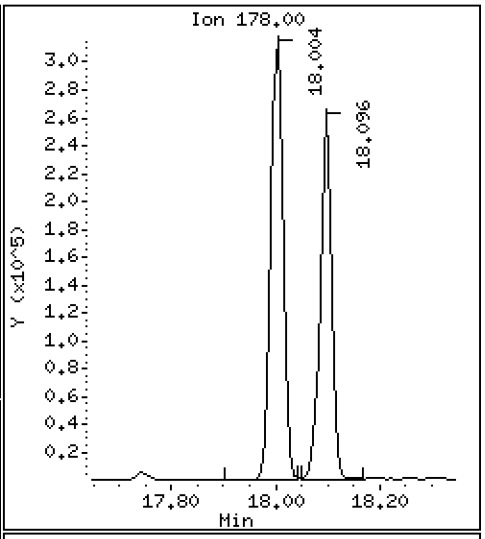
Column phase: ZB-5msi

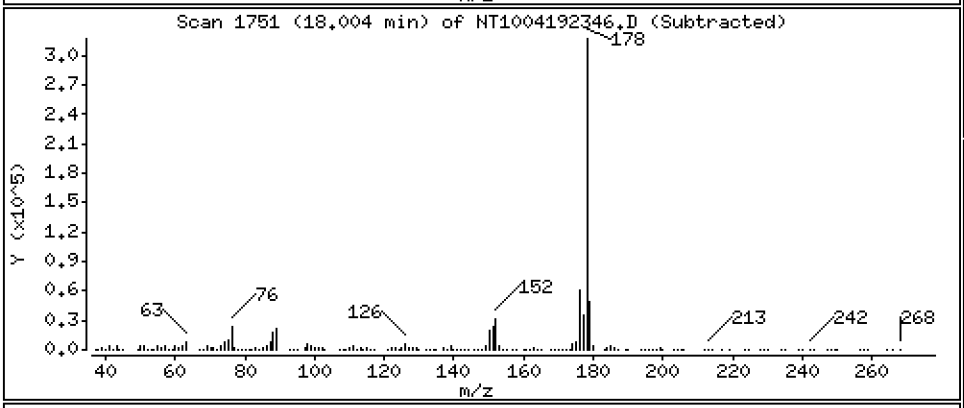
Column diameter: 0.25

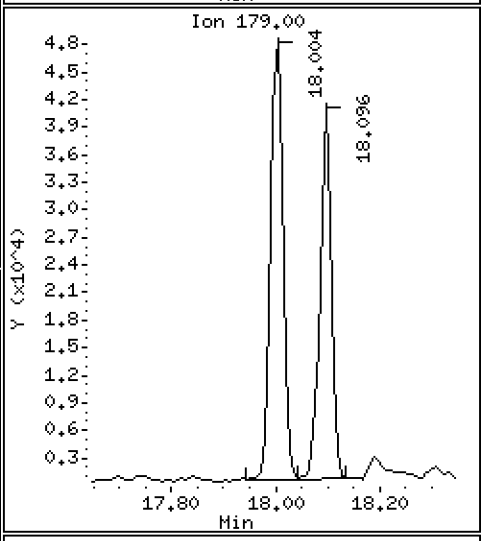
60 Phenanthrene

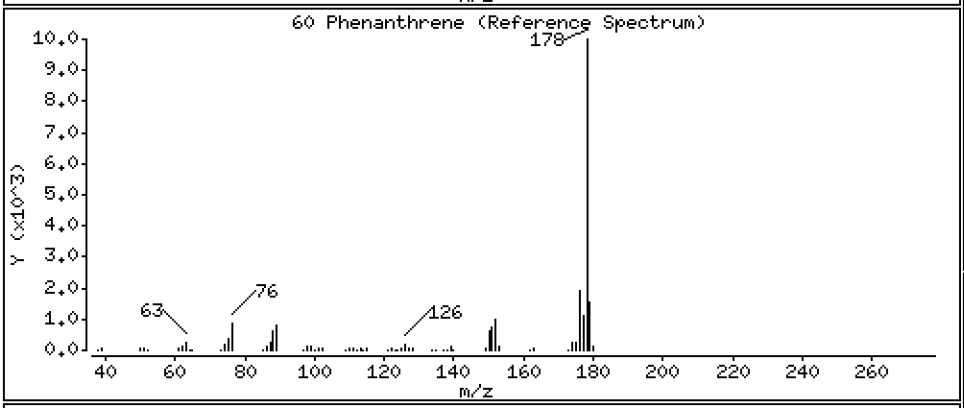
Concentration: 3.823 ug/mL

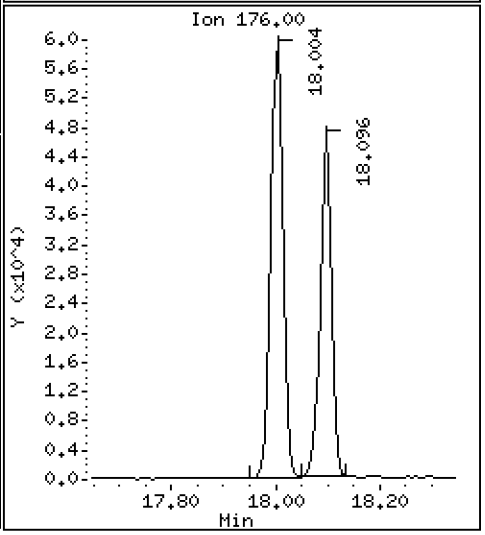


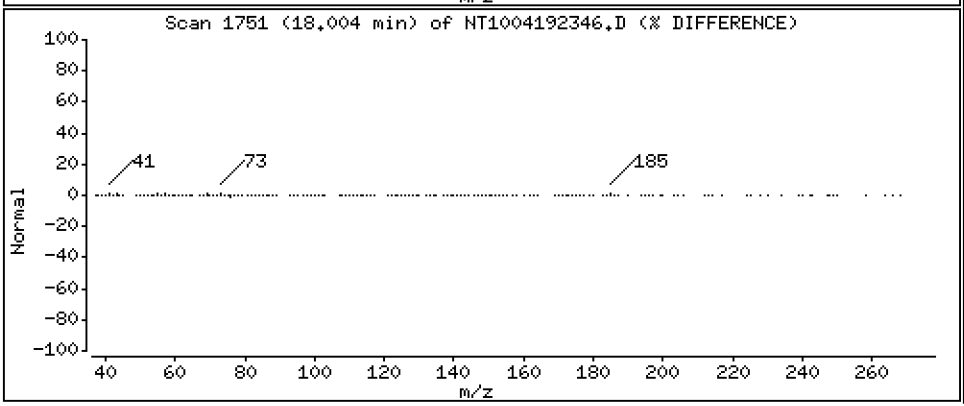












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

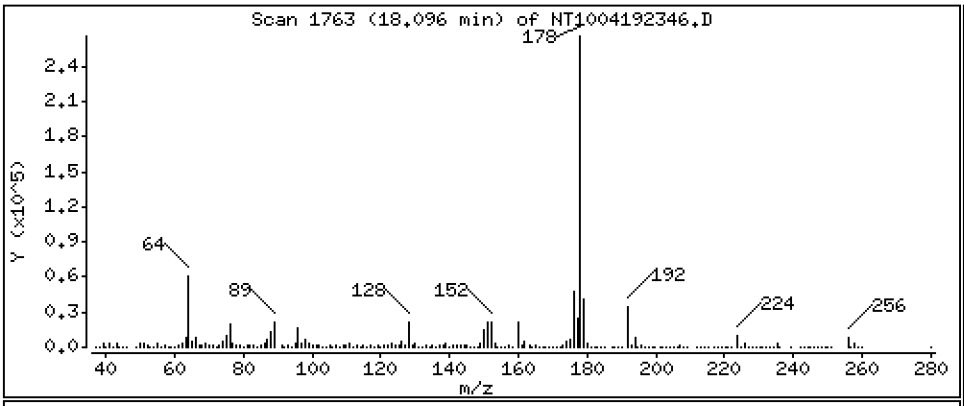
Operator: VTS

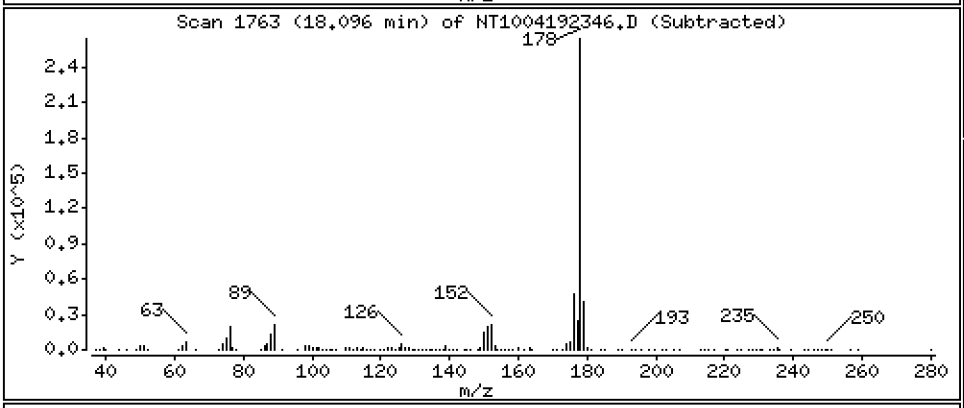
Column phase: ZB-5msi

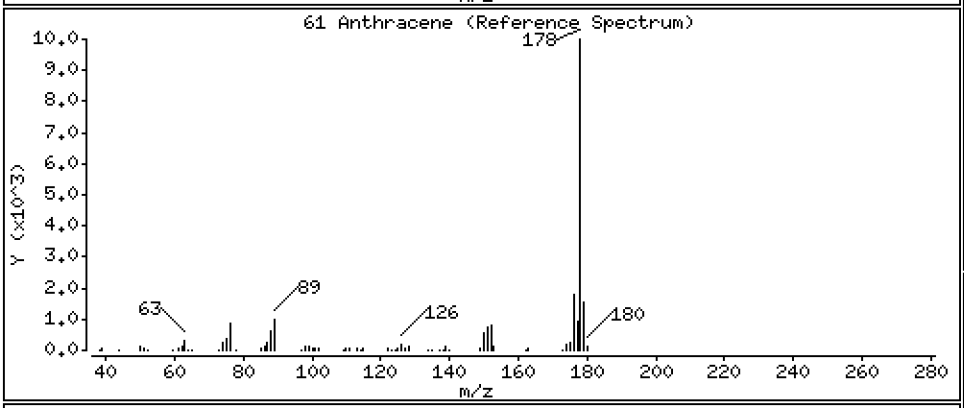
Column diameter: 0.25

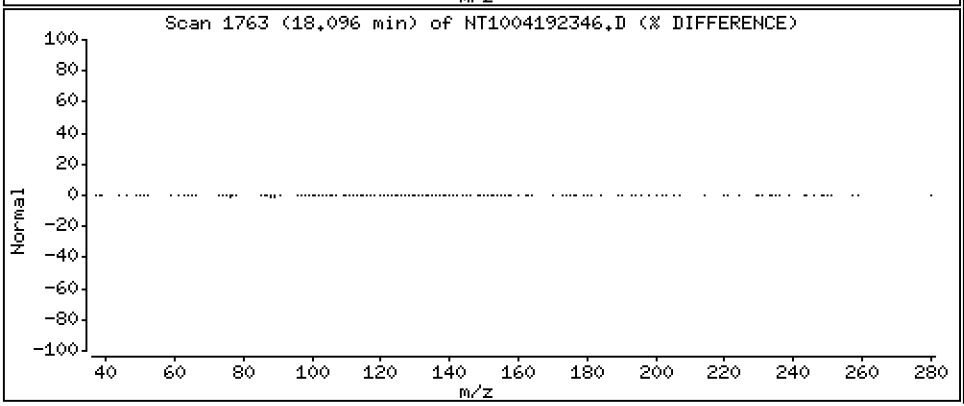
61 Anthracene

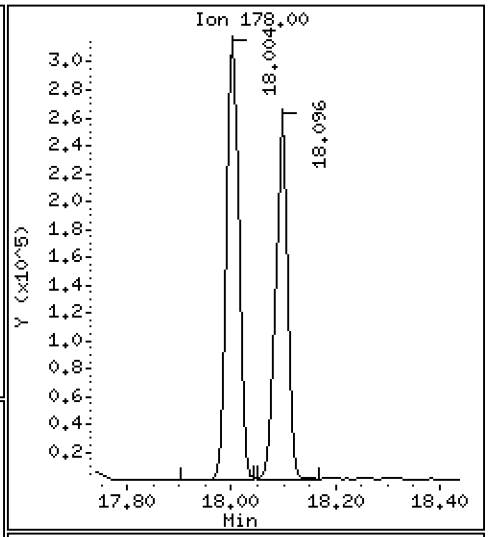
Concentration: 3.239 ug/mL

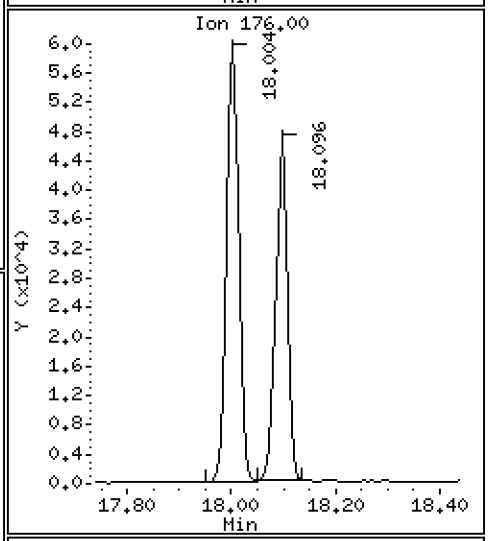


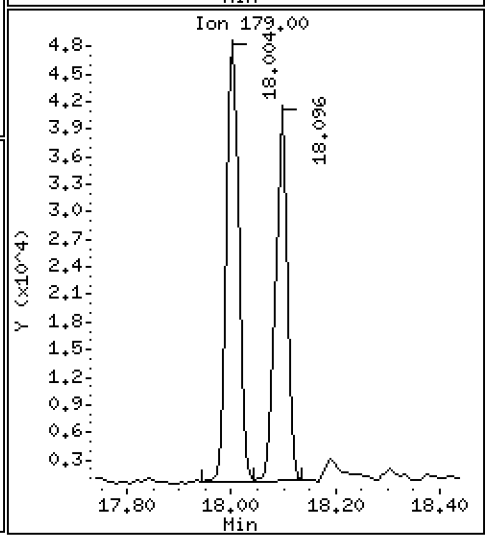












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

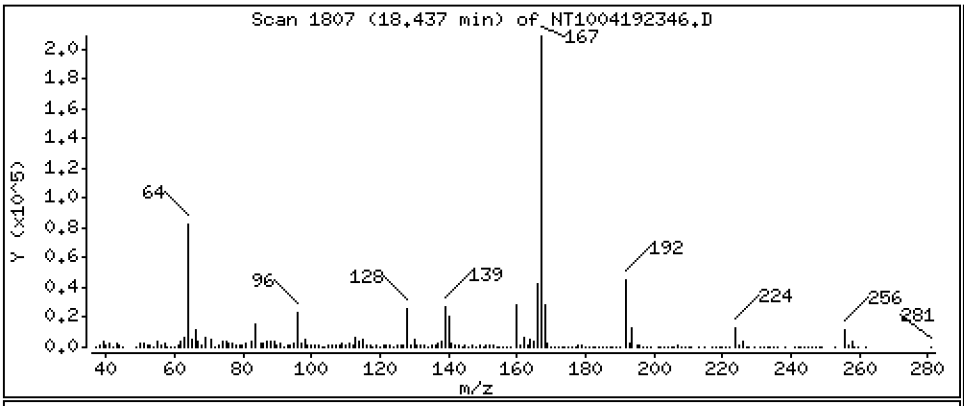
Operator: VTS

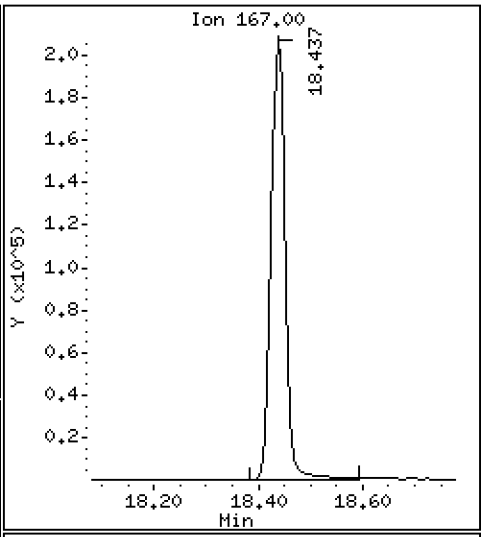
Column phase: ZB-5msi

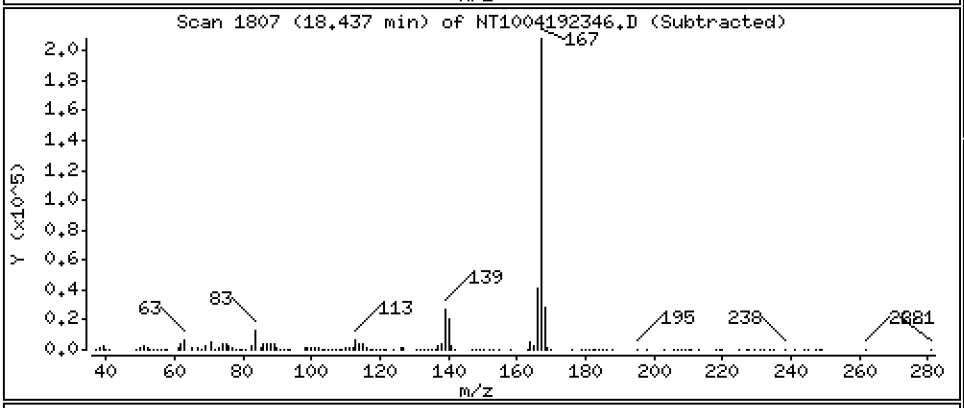
Column diameter: 0.25

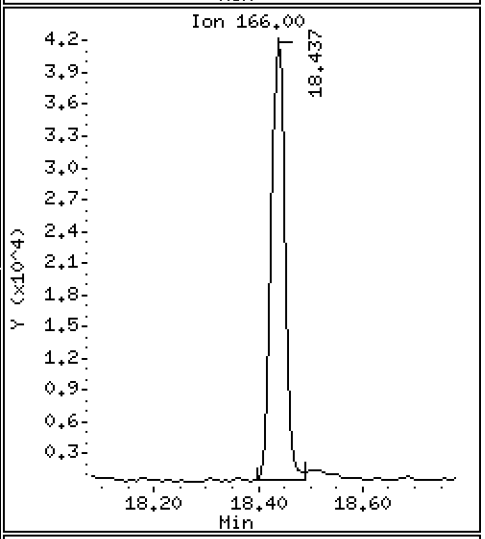
62 Carbazole

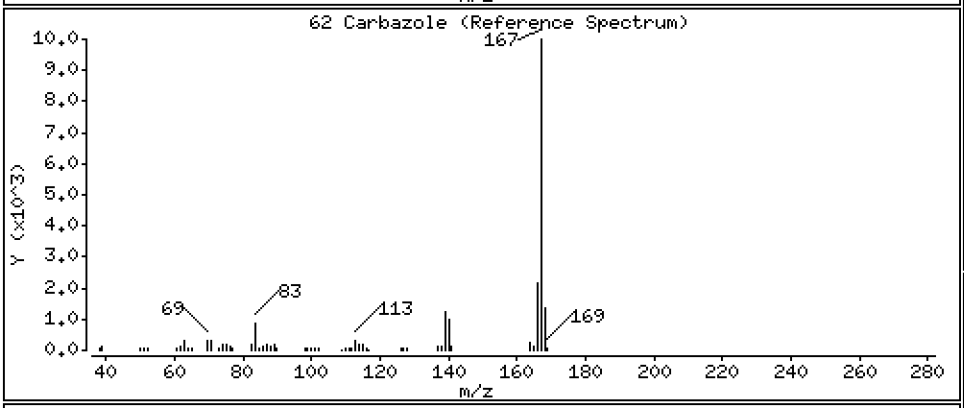
Concentration: 3.348 ug/mL

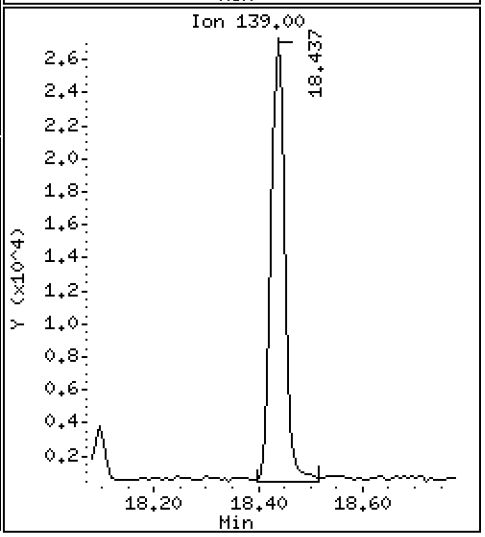


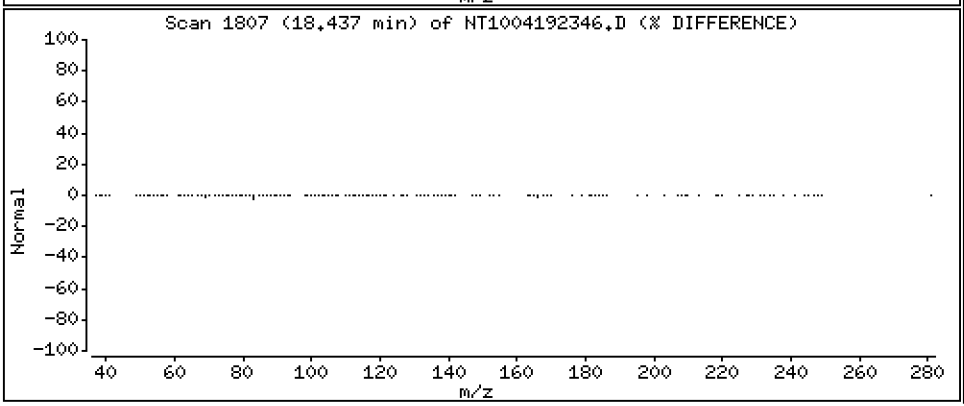












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192346.D

Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

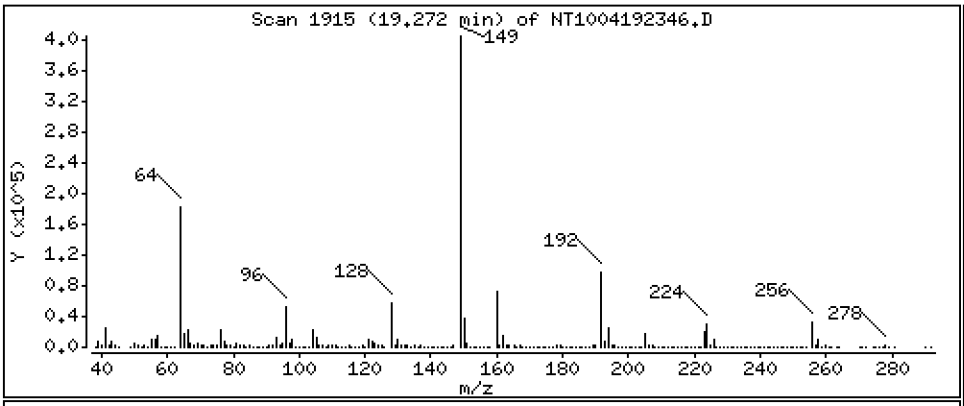
Operator: VTS

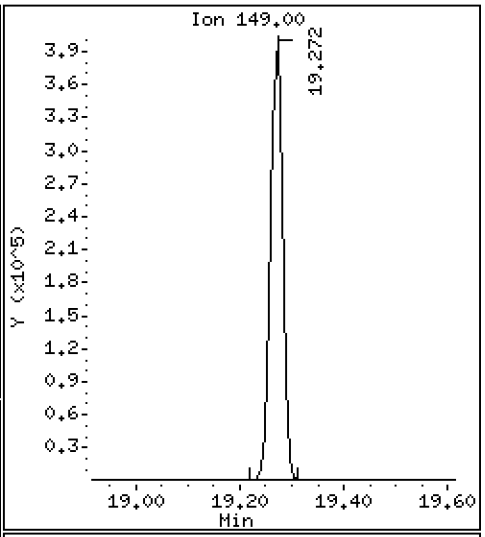
Column phase: ZB-5msi

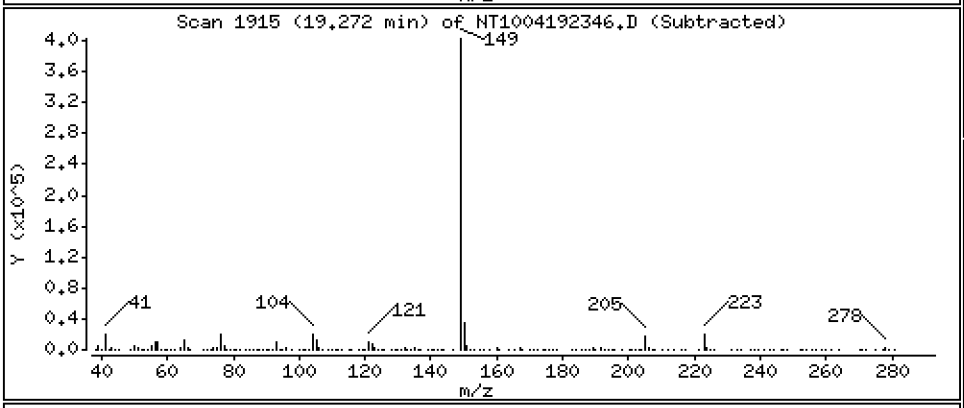
Column diameter: 0.25

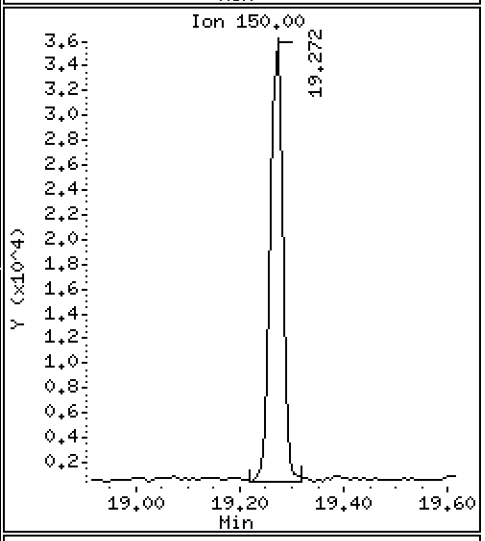
63 Di-n-butylphthalate

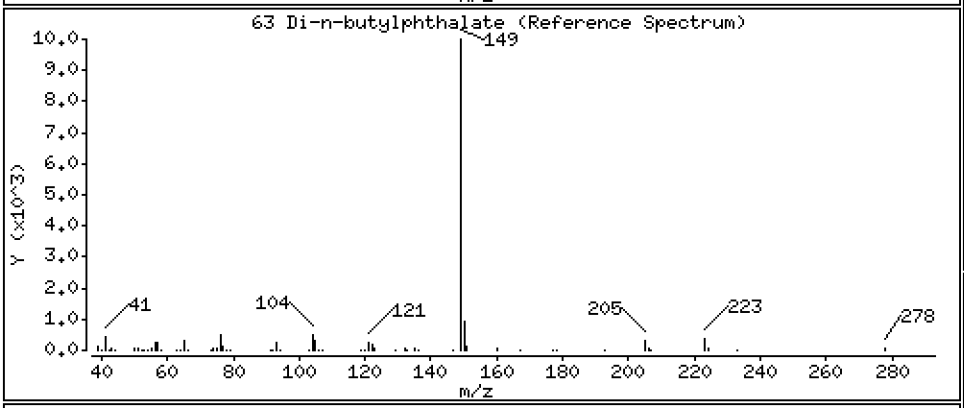
Concentration: 4.084 ug/mL

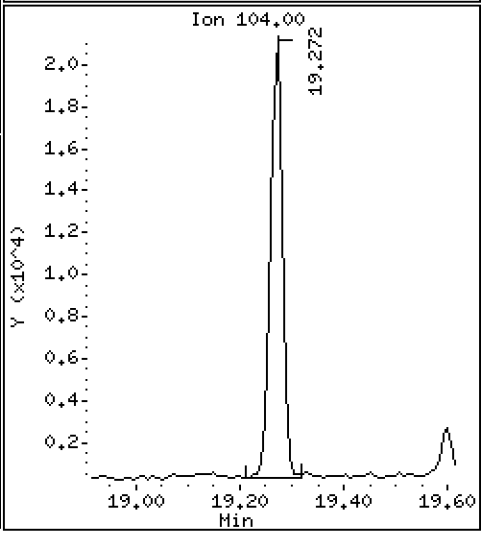


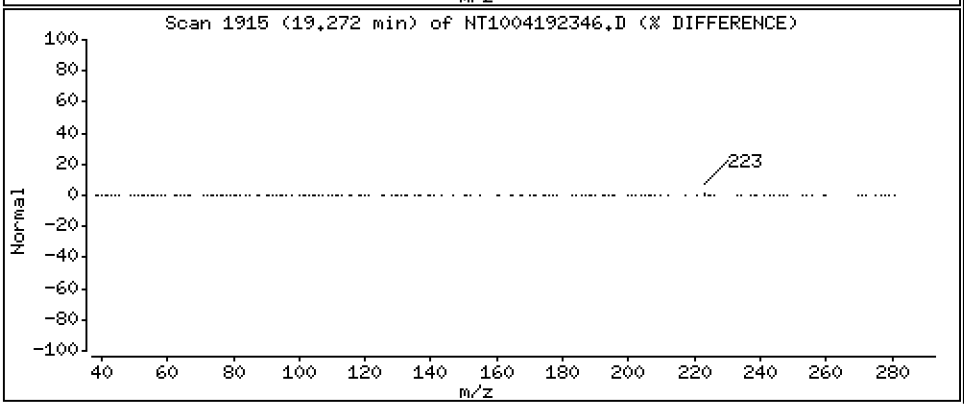












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

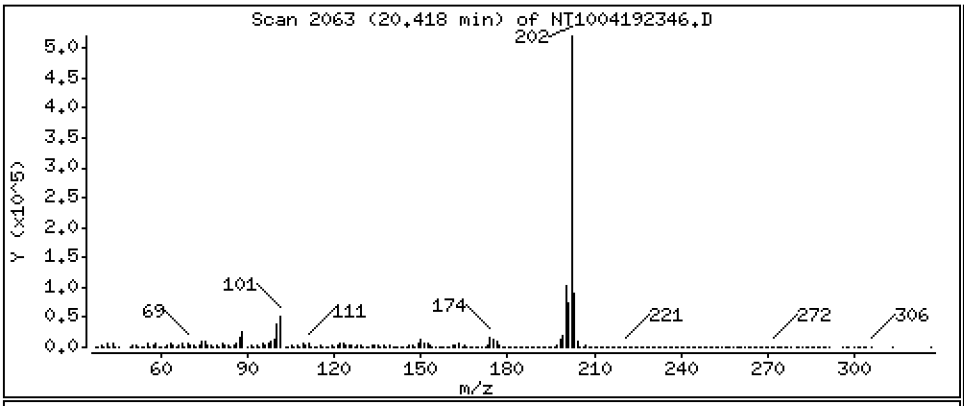
Operator: VTS

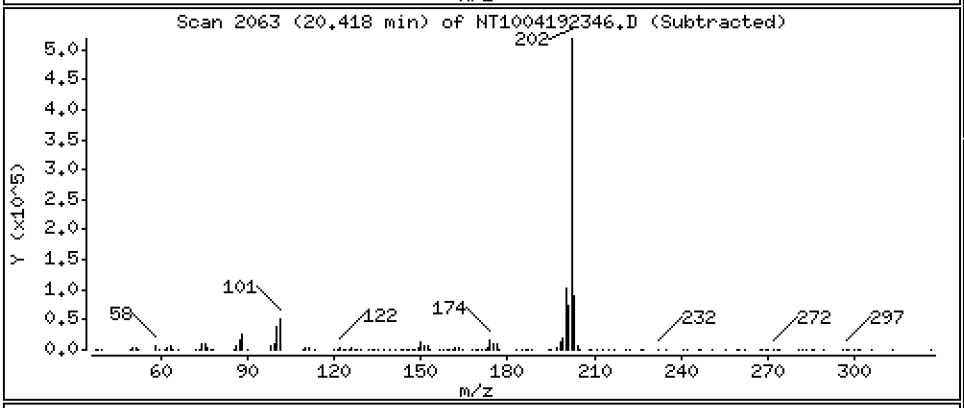
Column phase: ZB-5msi

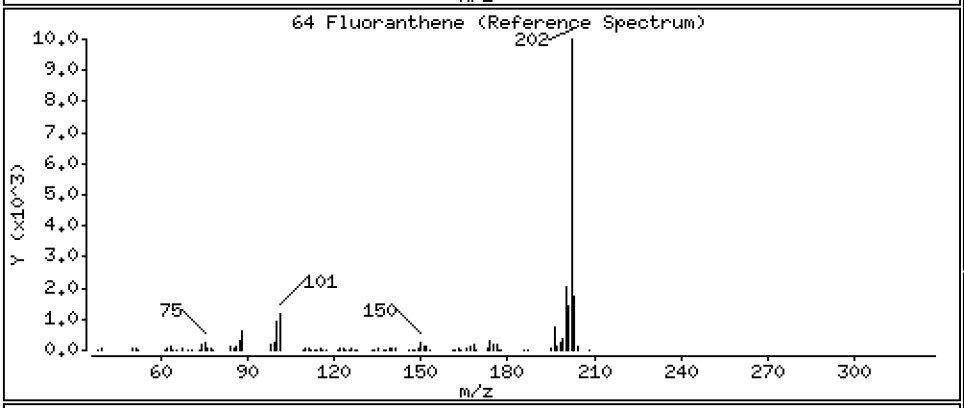
Column diameter: 0.25

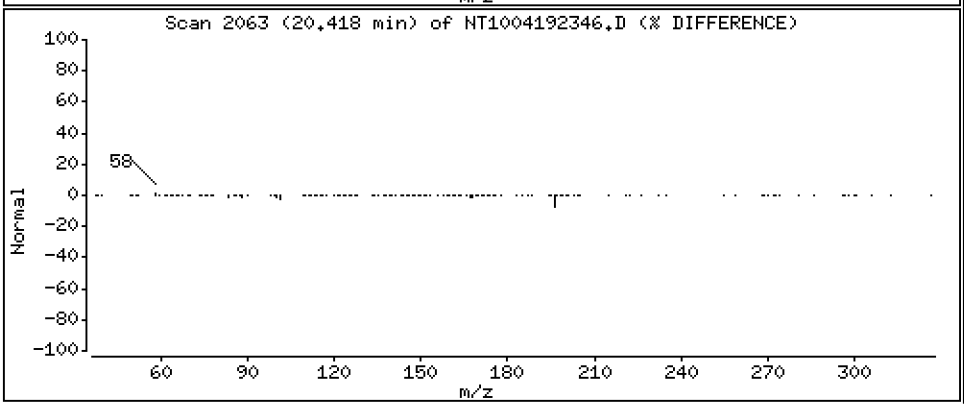
64 Fluoranthene

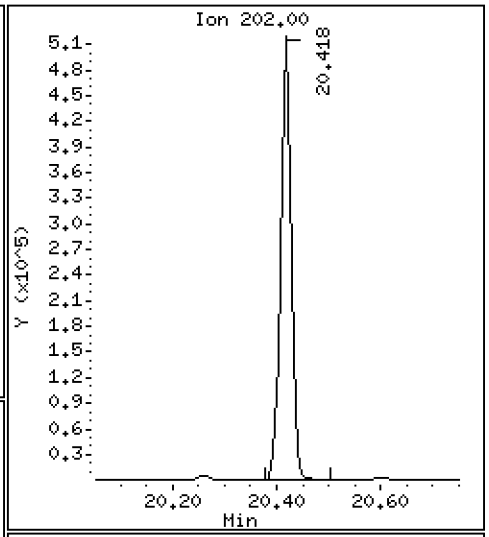
Concentration: 3.893 ug/mL

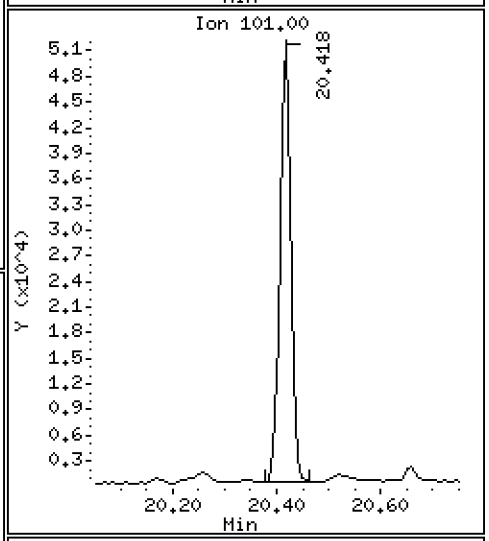


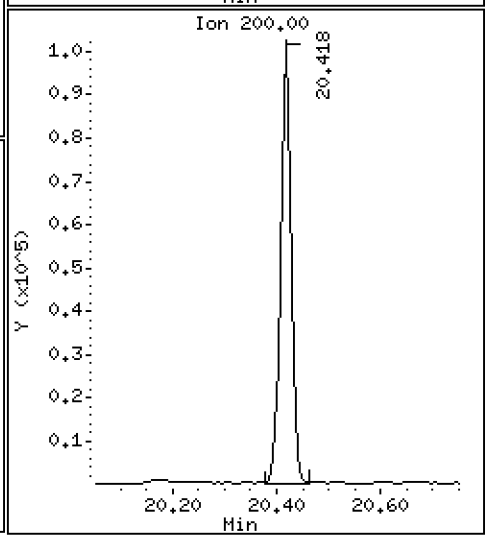












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192346.D

Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

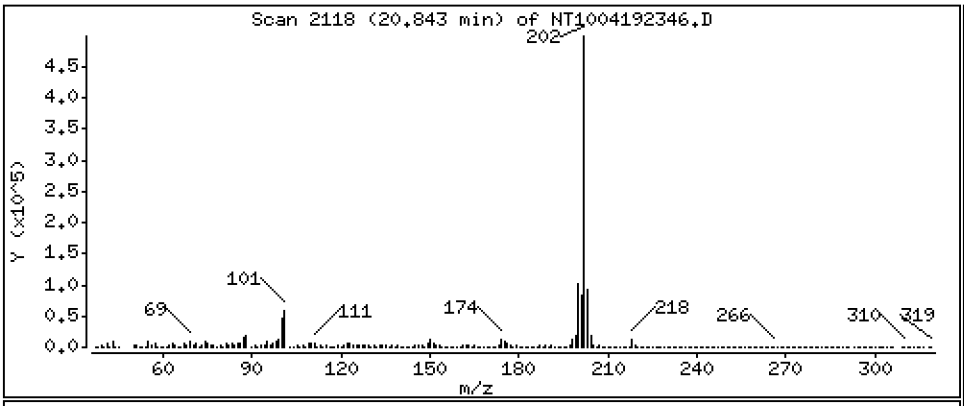
Operator: VTS

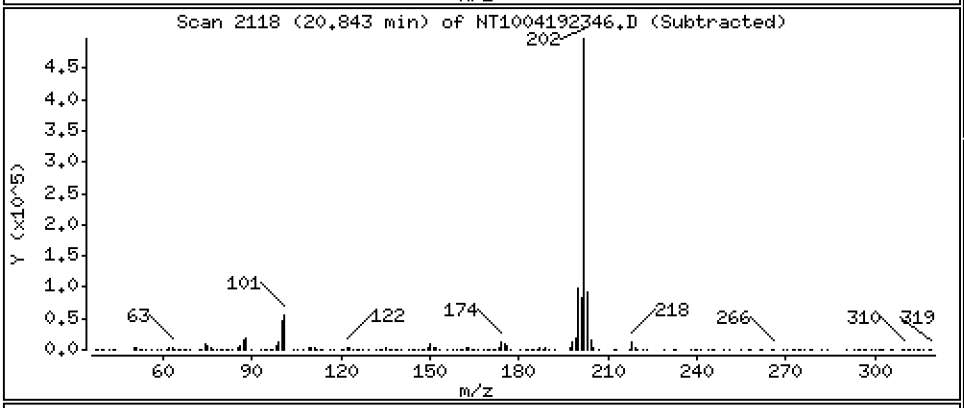
Column phase: ZB-5msi

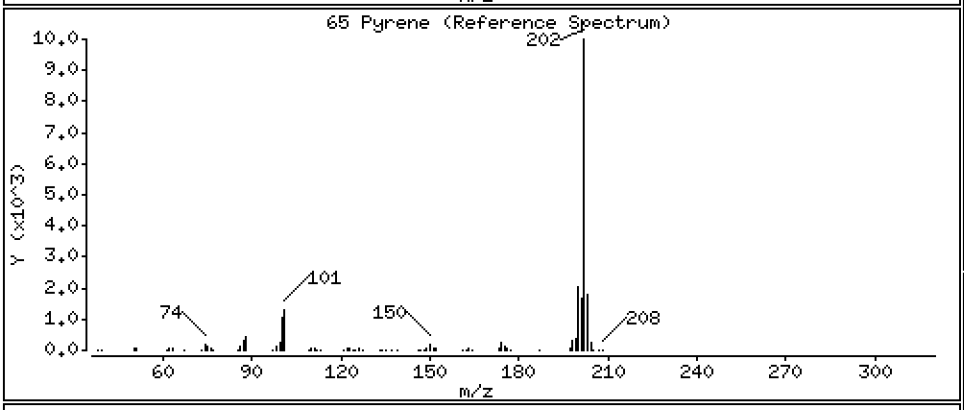
Column diameter: 0.25

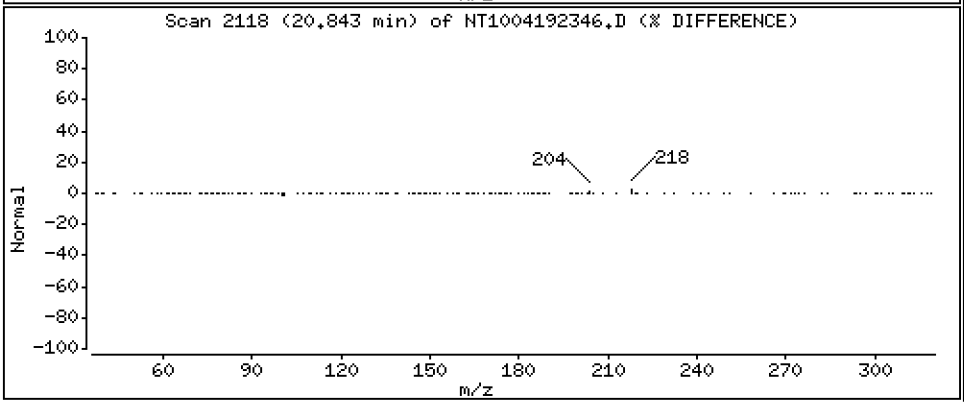
65 Pyrene

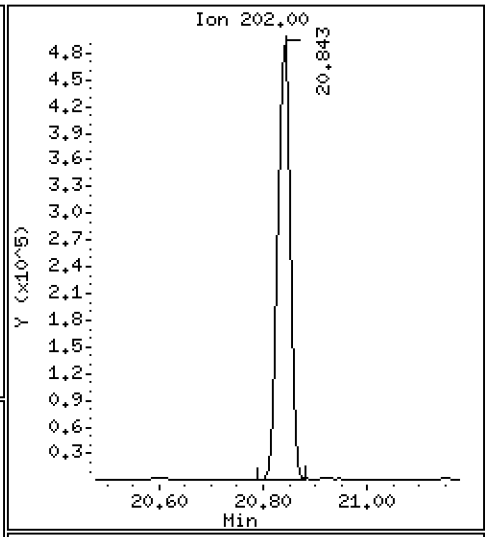
Concentration: 4.064 ug/mL

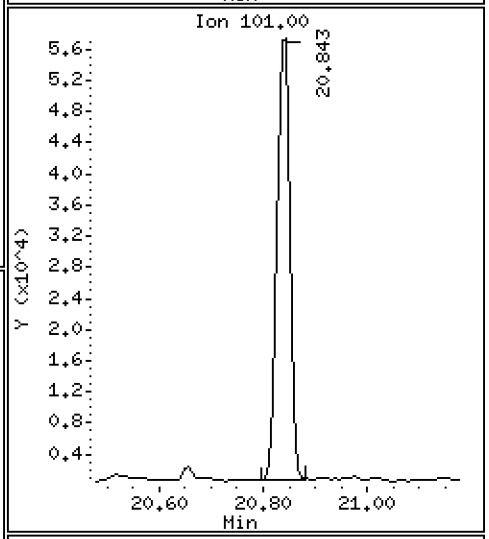


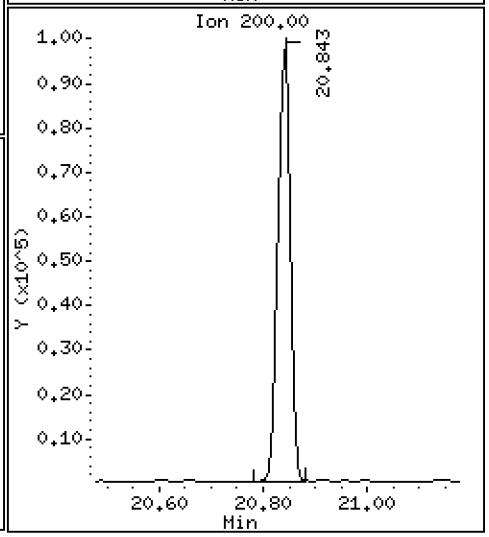












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

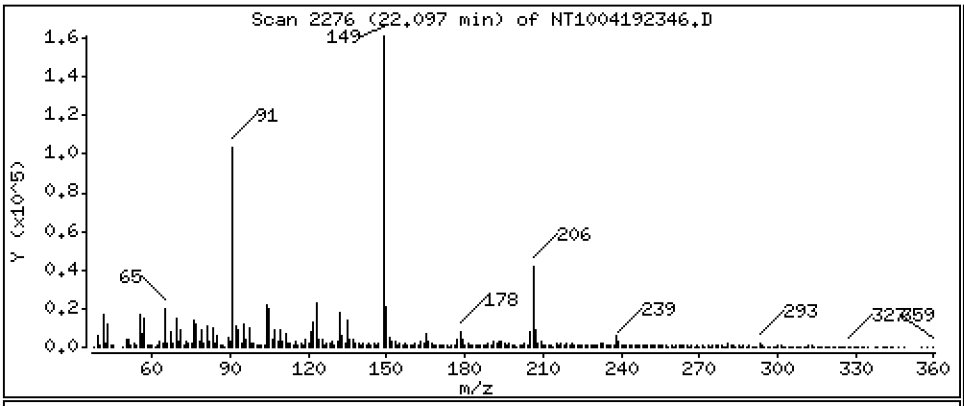
Operator: VTS

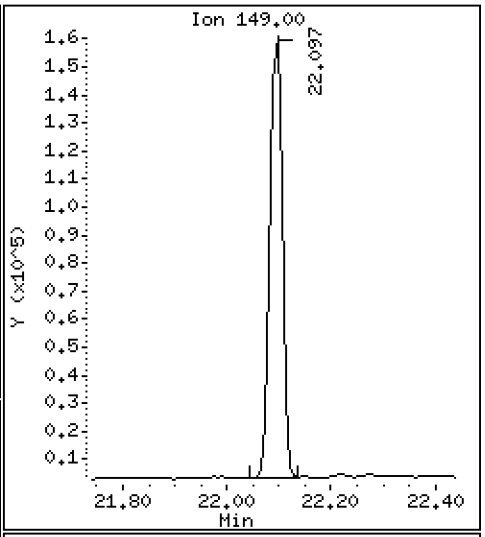
Column phase: ZB-5msi

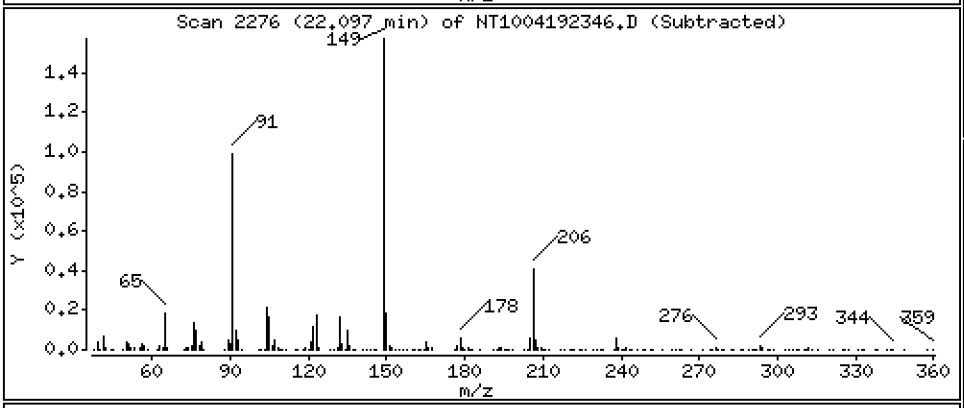
Column diameter: 0.25

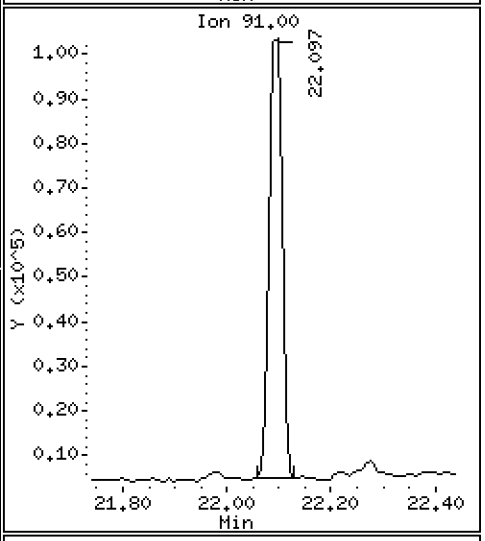
67 Butylbenzylphthalate

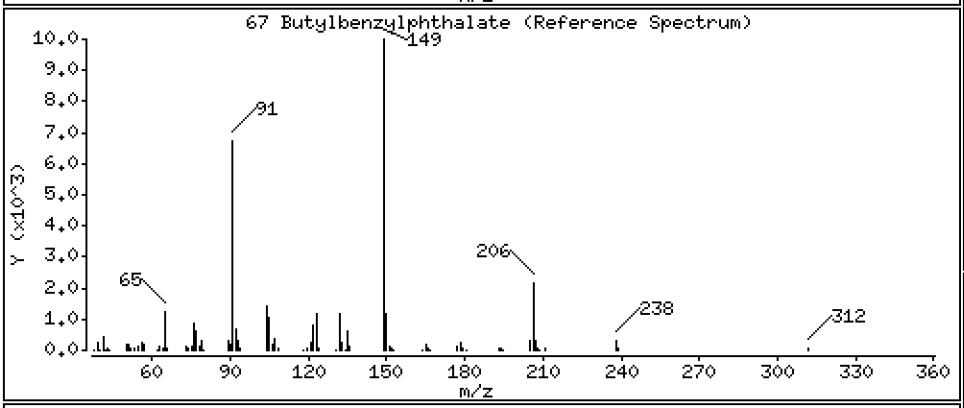
Concentration: 3.564 ug/mL

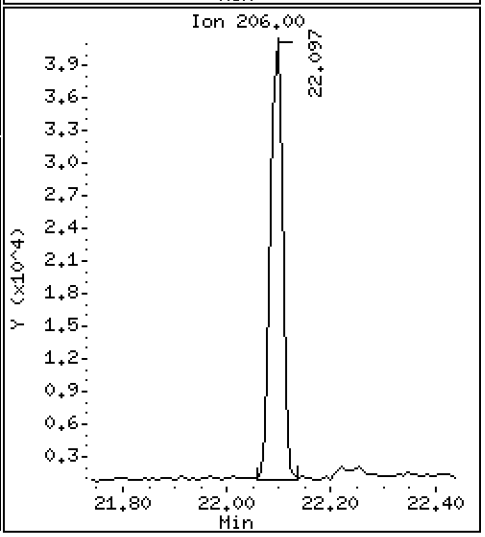


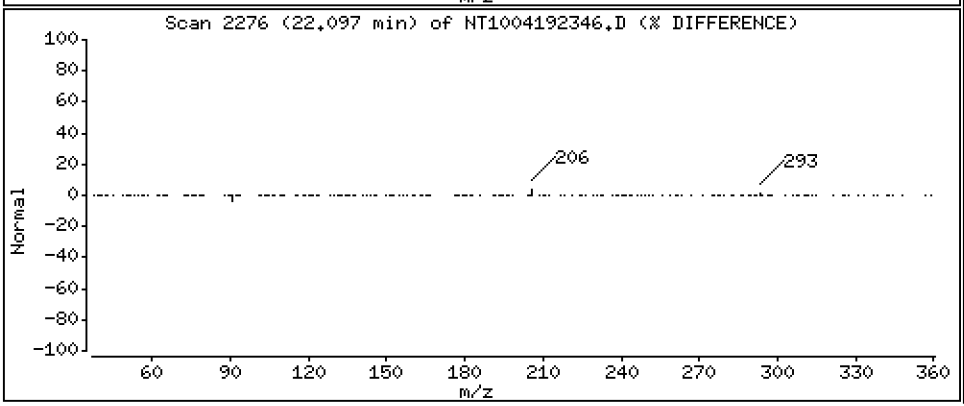












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

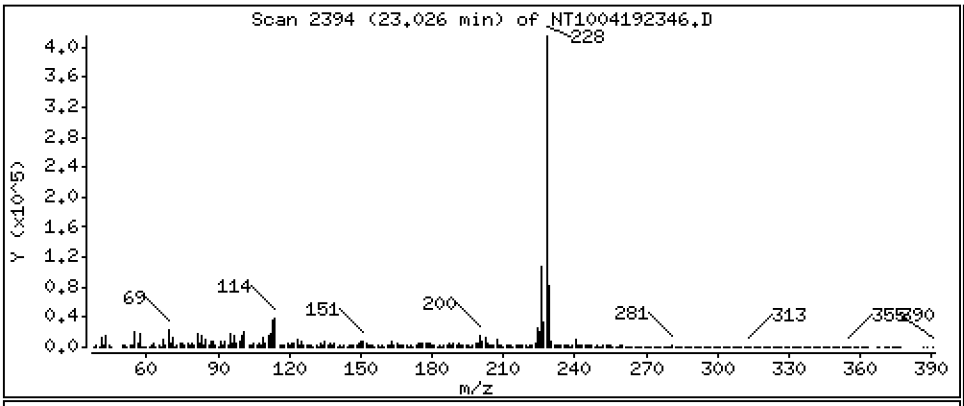
Operator: VTS

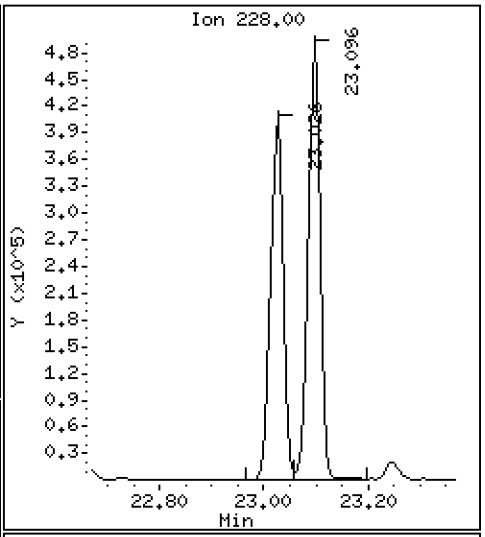
Column phase: ZB-5msi

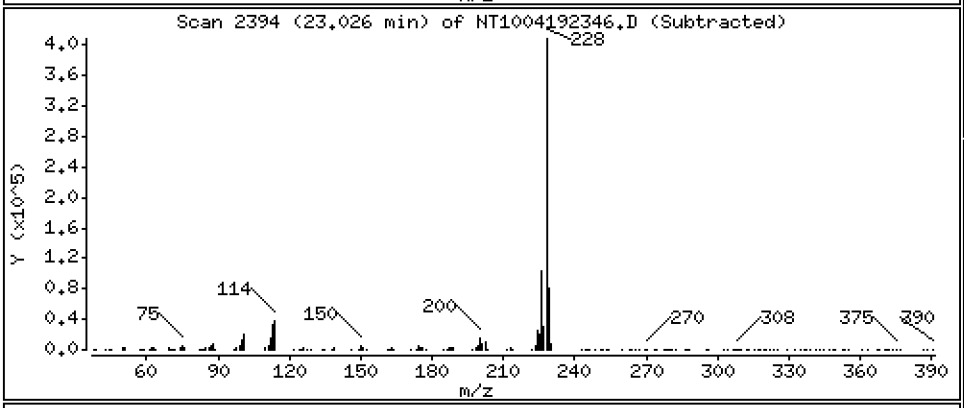
Column diameter: 0.25

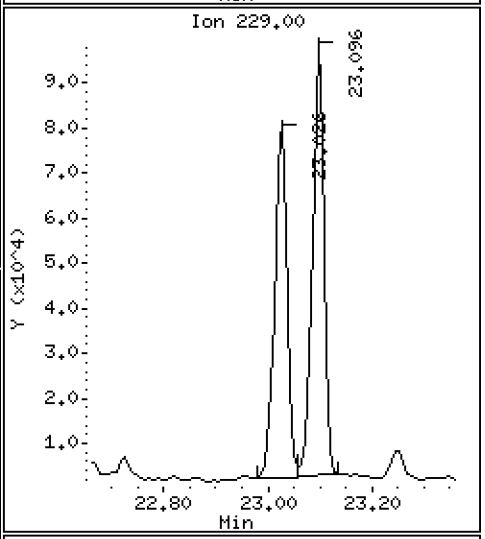
68 Benzo(a)anthracene

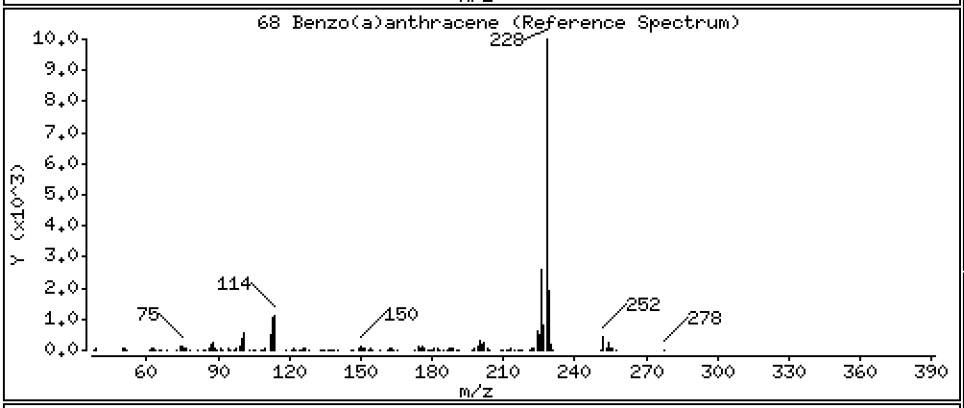
Concentration: 4.011 ug/mL

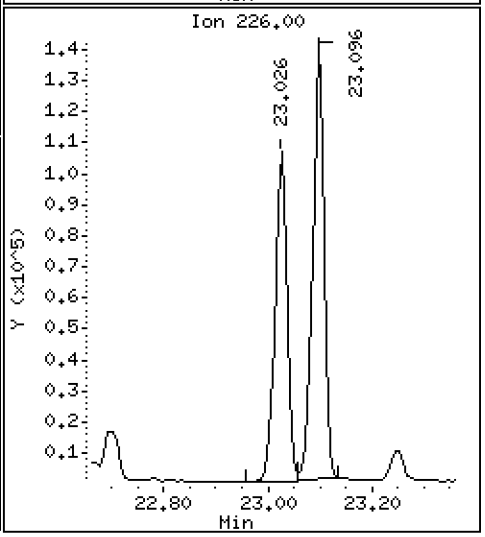


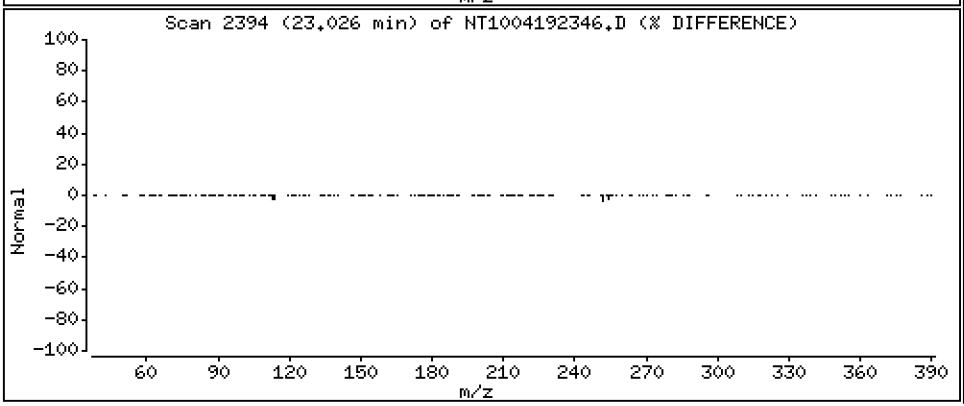












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

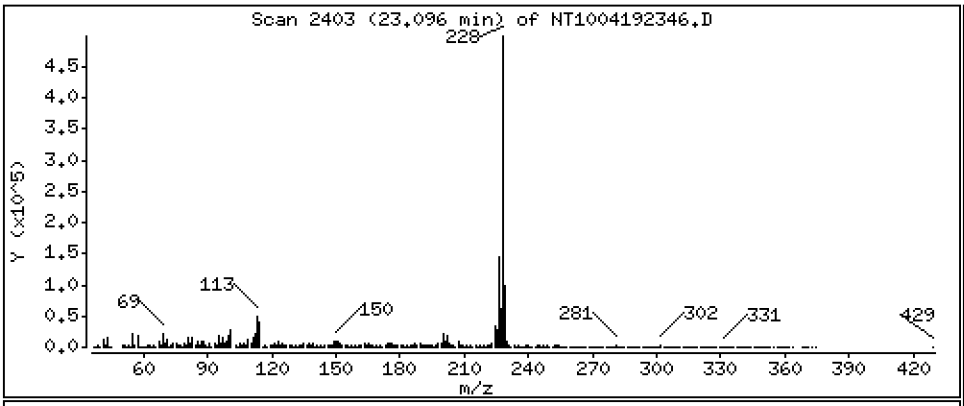
Operator: VTS

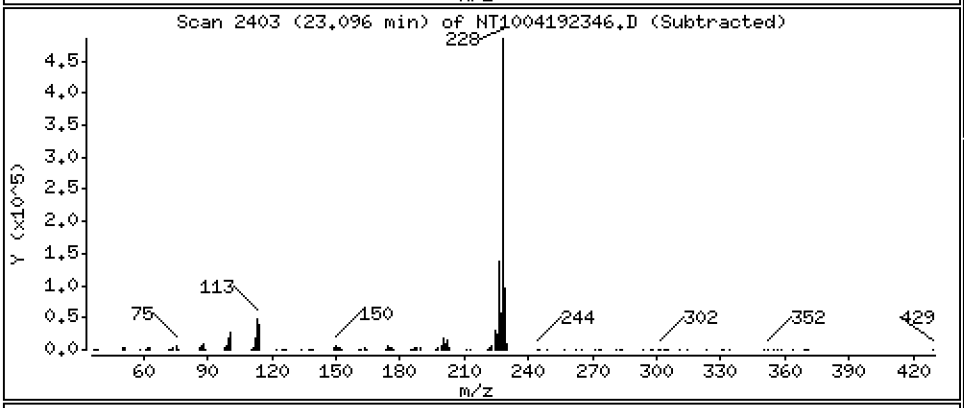
Column phase: ZB-5msi

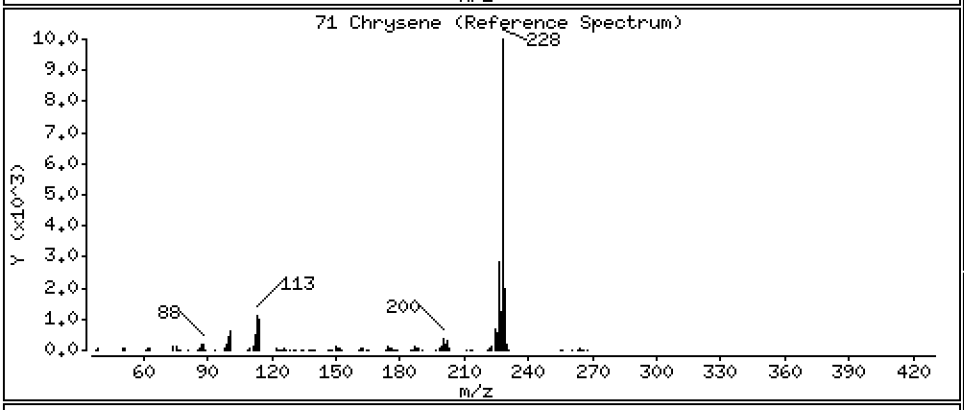
Column diameter: 0.25

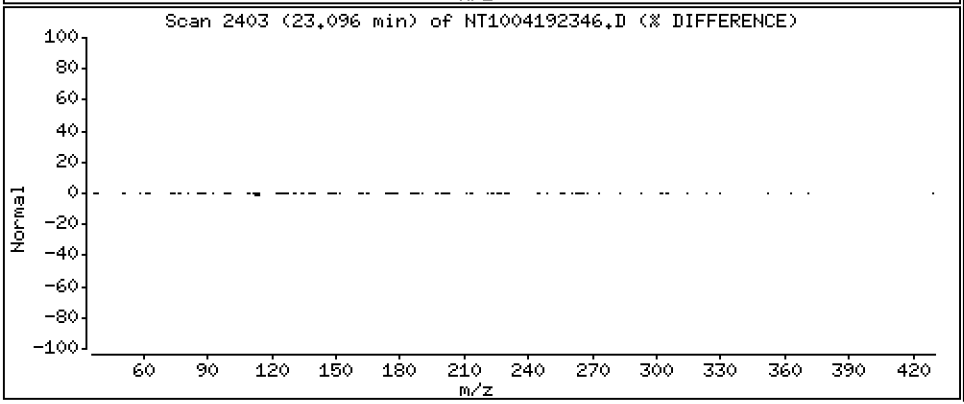
71 Chrysene

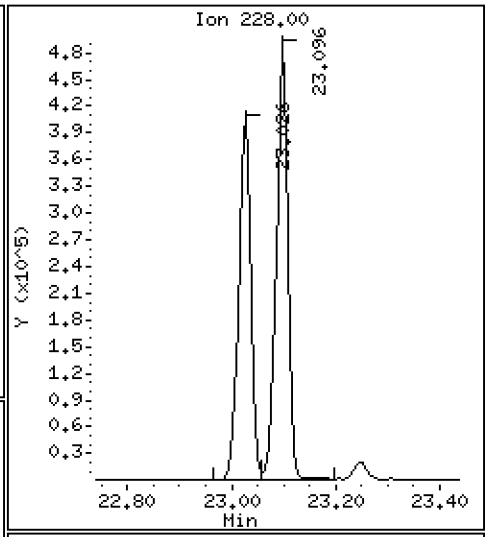
Concentration: 4.513 ug/mL

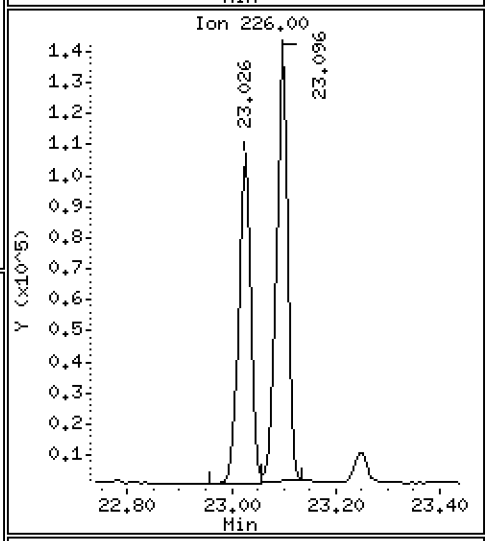


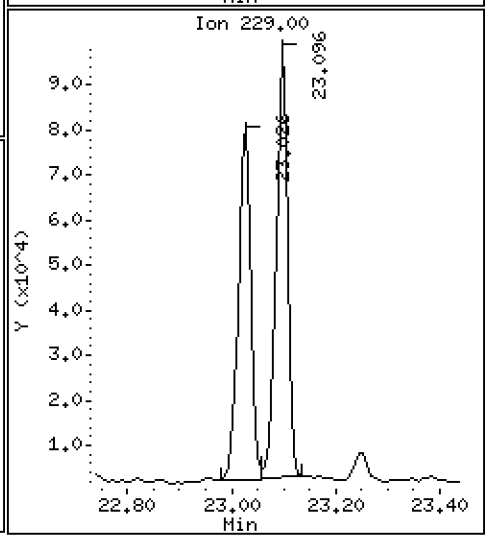












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

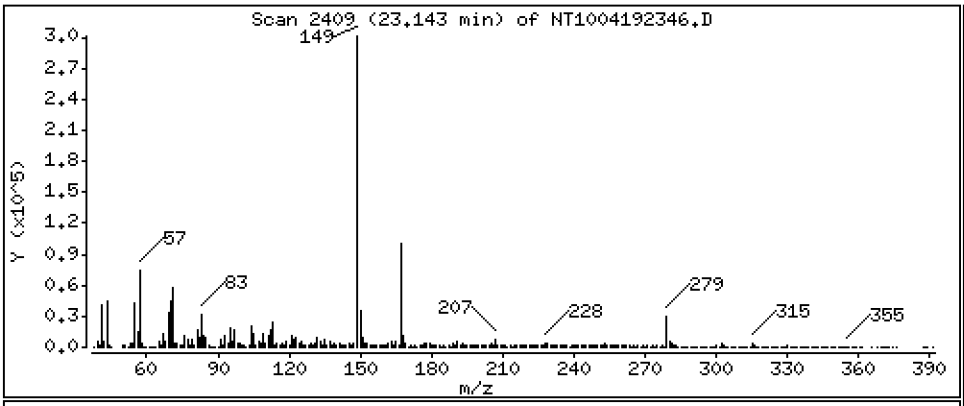
Operator: VTS

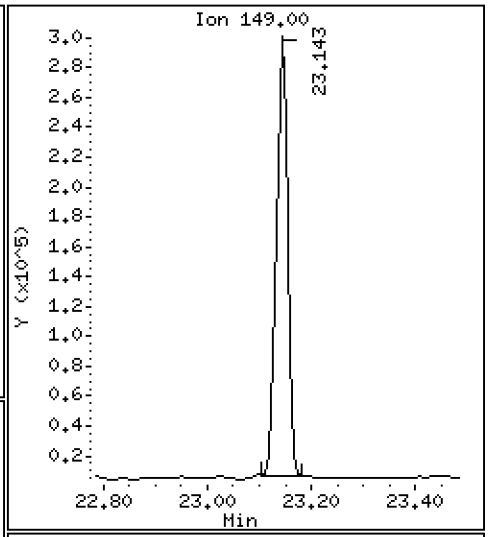
Column phase: ZB-5msi

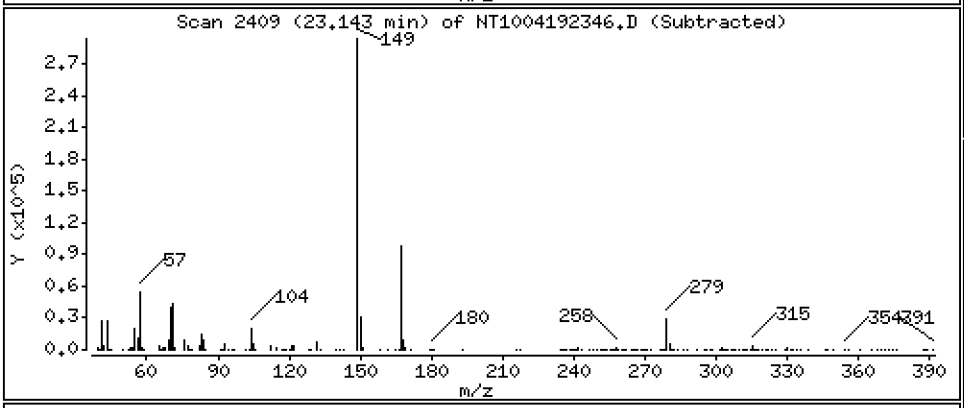
Column diameter: 0.25

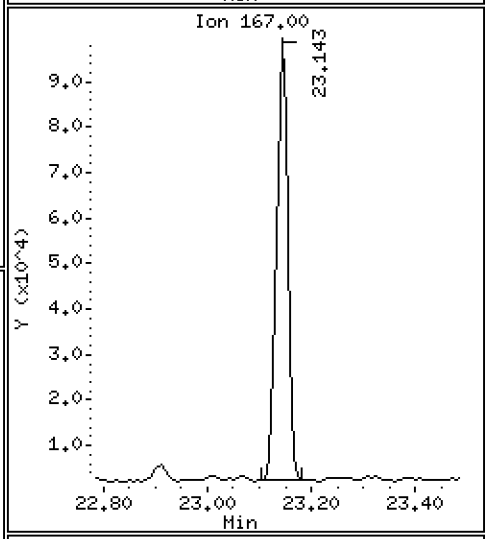
72 bis(2-Ethylhexyl)phthalate

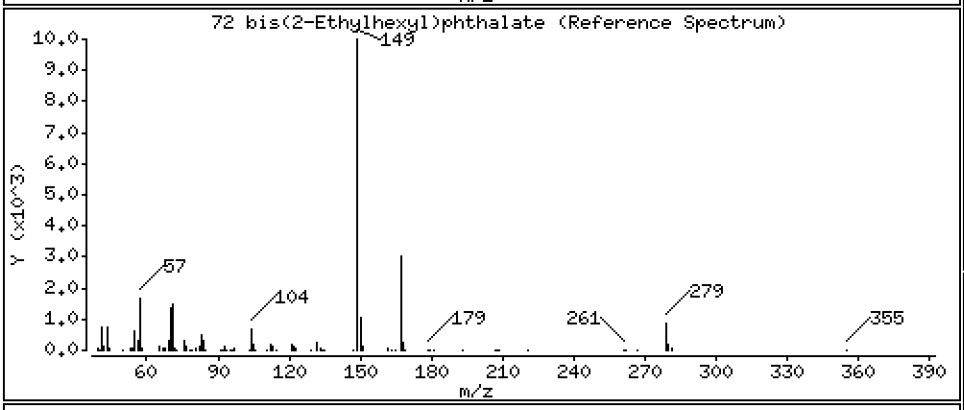
Concentration: 3.989 ug/mL

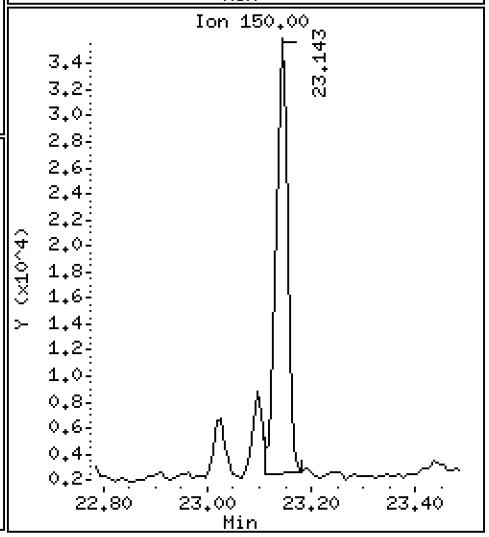


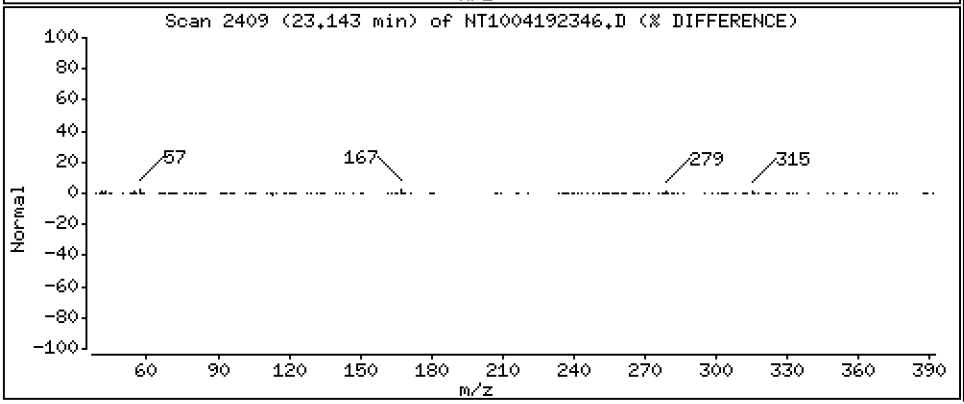












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192346.D

Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

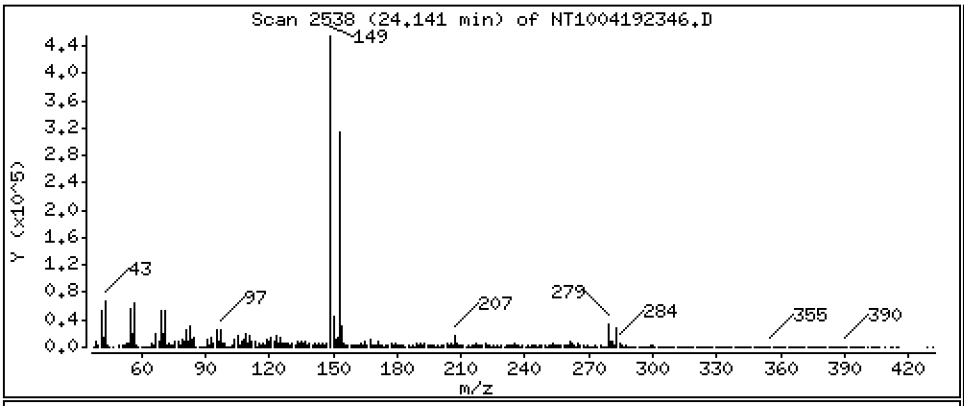
Operator: VTS

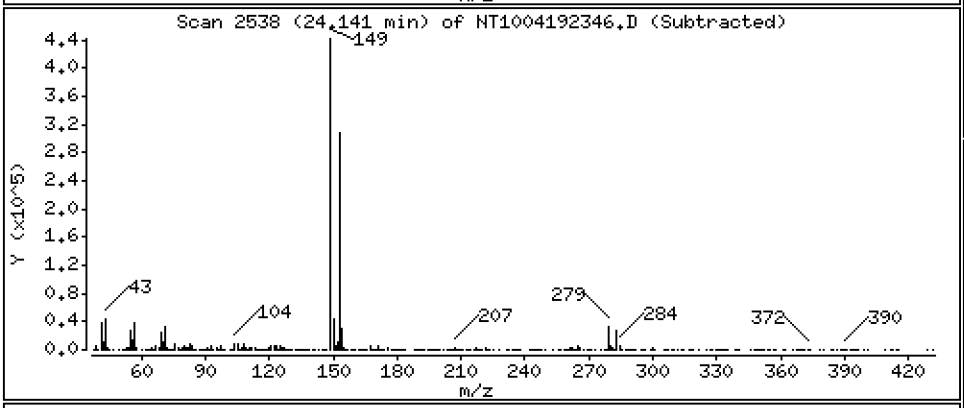
Column phase: ZB-5msi

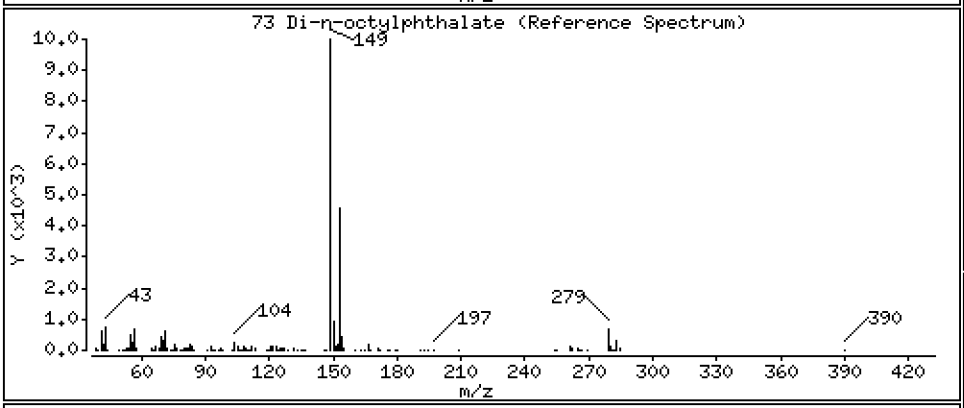
Column diameter: 0.25

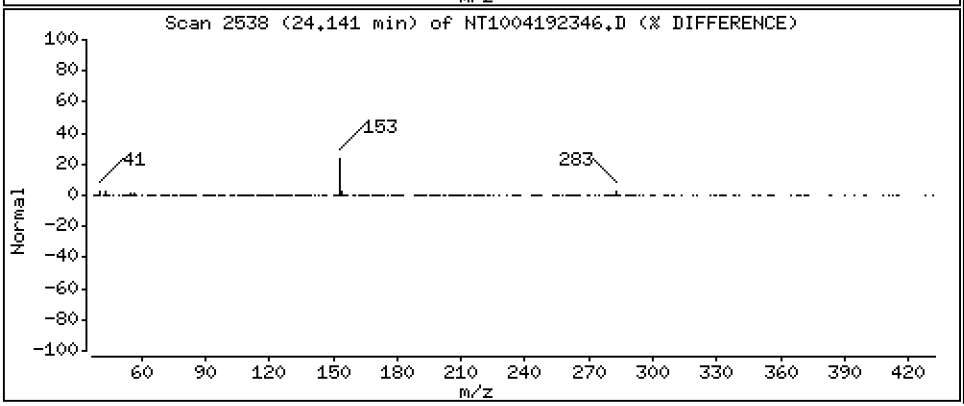
73 Di-n-octylphthalate

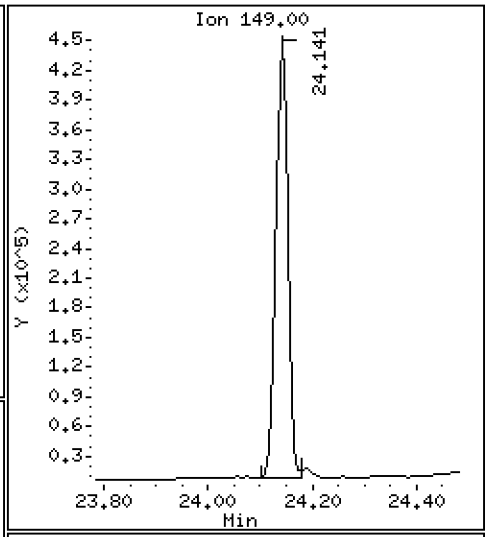
Concentration: 3.449 ug/mL

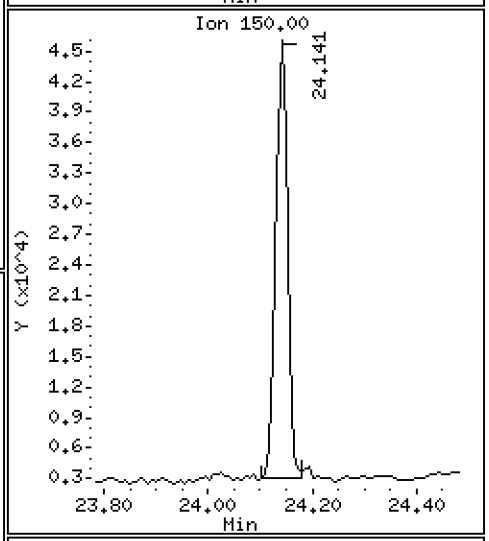


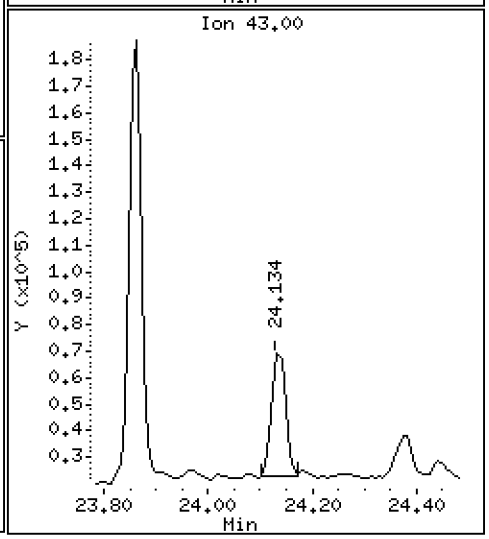












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

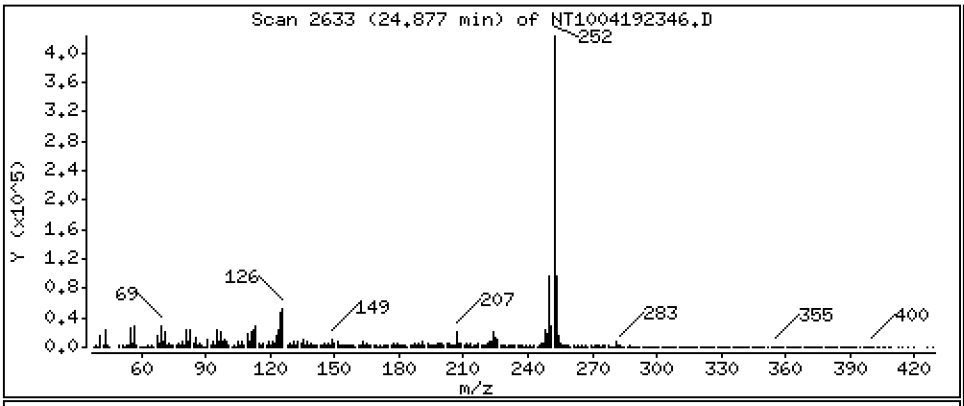
Operator: VTS

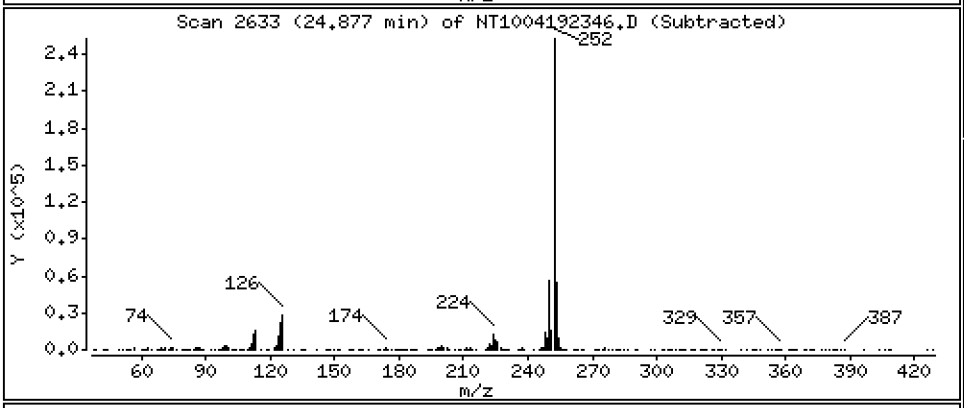
Column phase: ZB-5msi

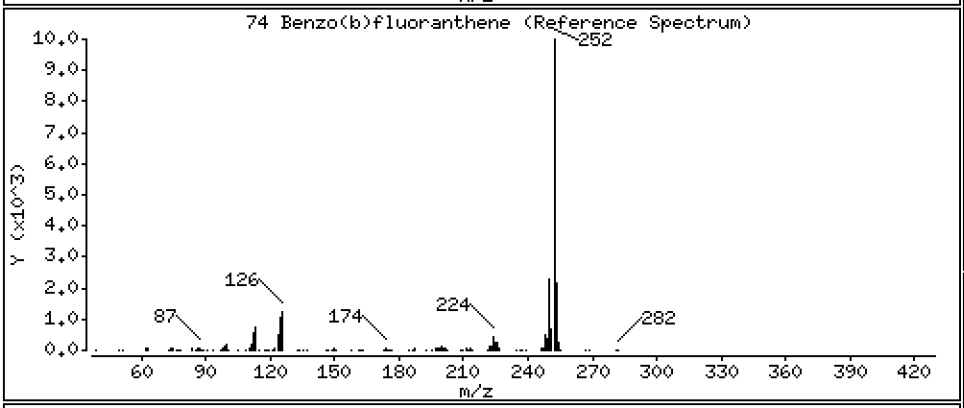
Column diameter: 0.25

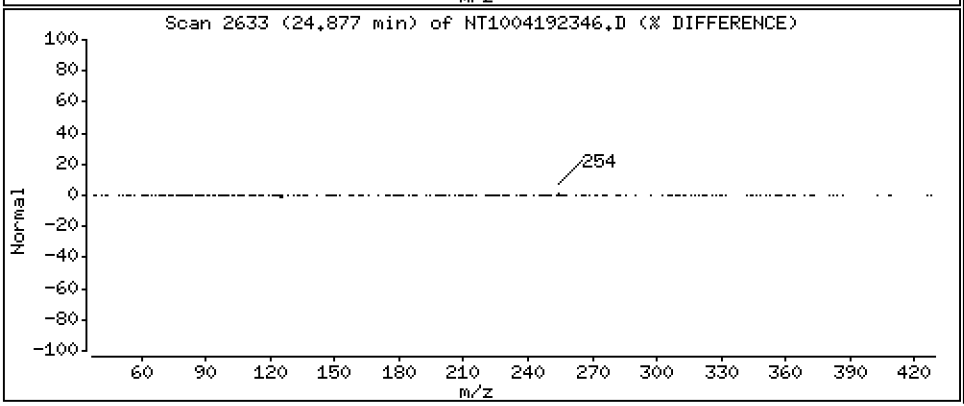
74 Benzo(b)fluoranthene

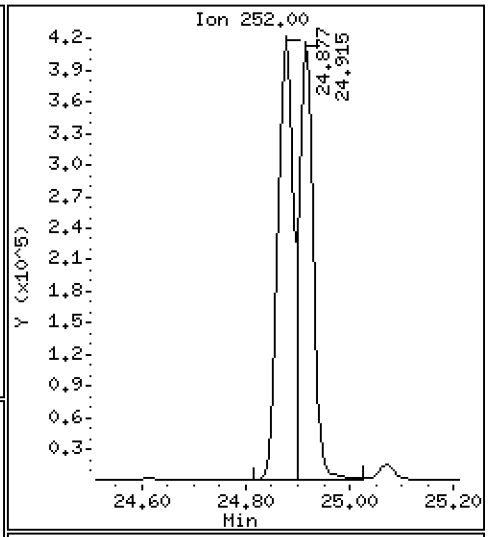
Concentration: 5.018 ug/mL

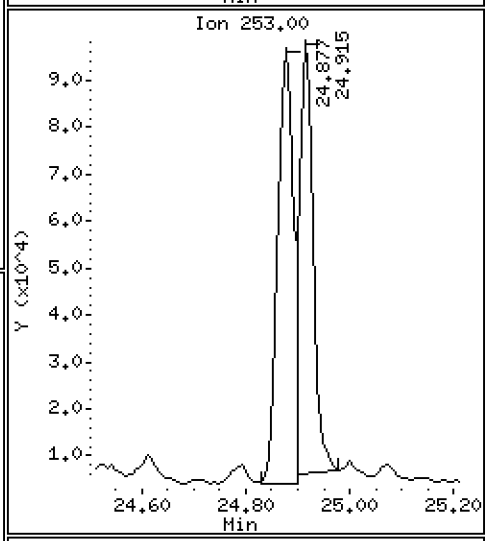


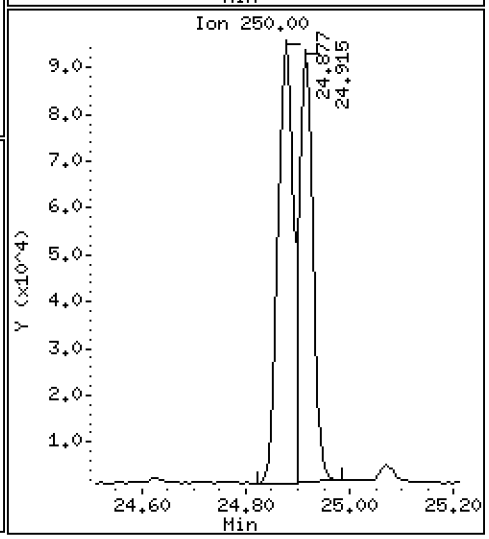












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

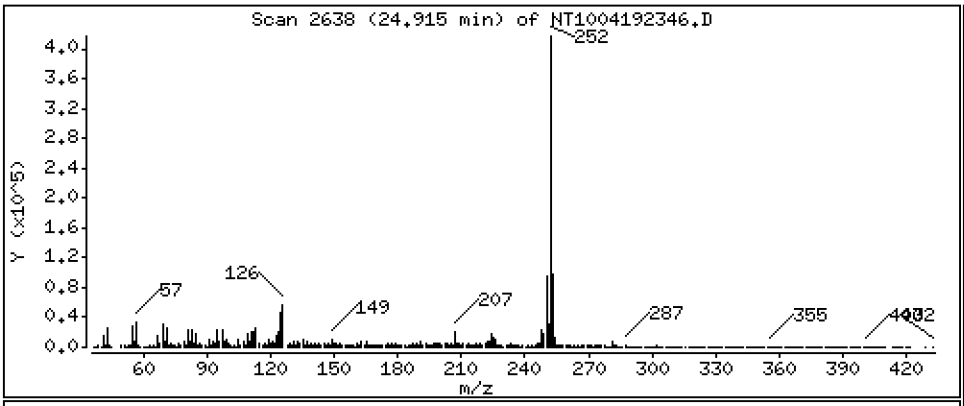
Operator: VTS

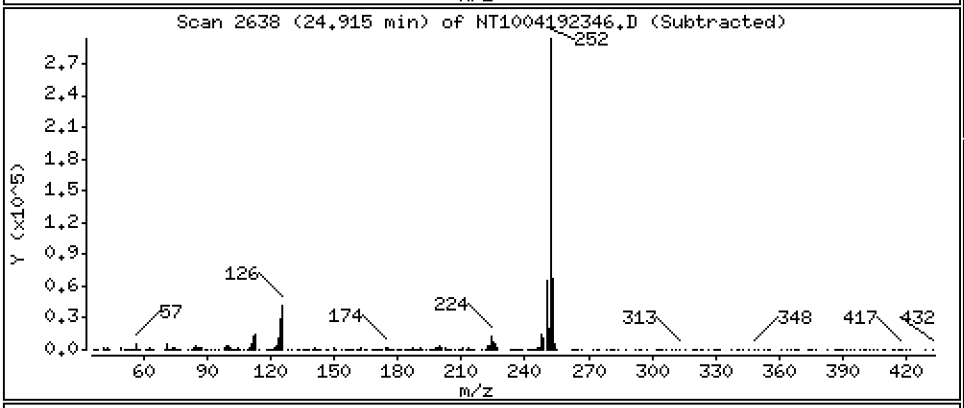
Column phase: ZB-5msi

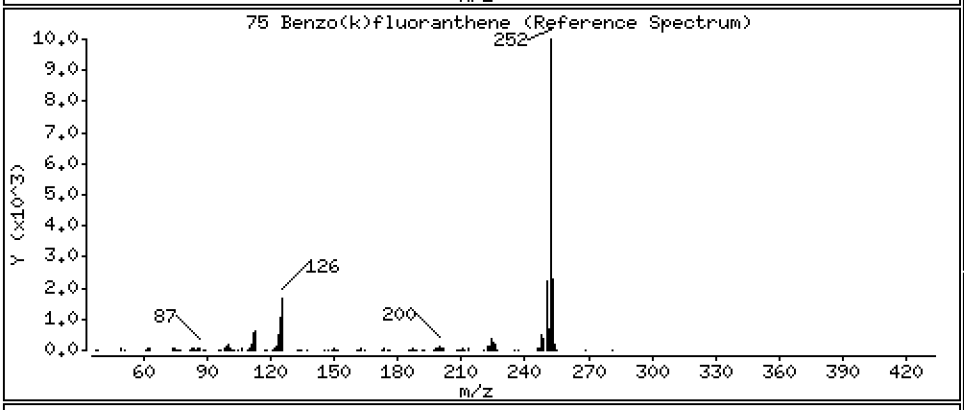
Column diameter: 0.25

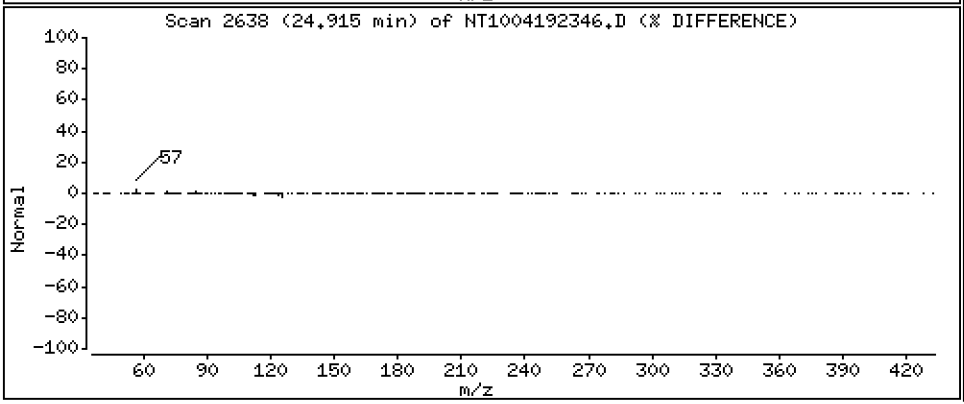
75 Benzo(k)fluoranthene

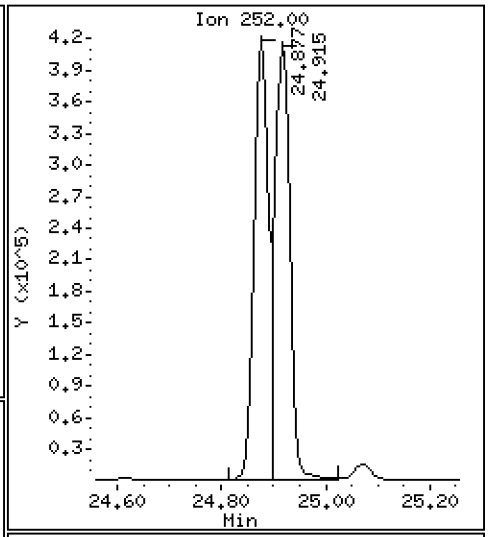
Concentration: 4.428 ug/mL

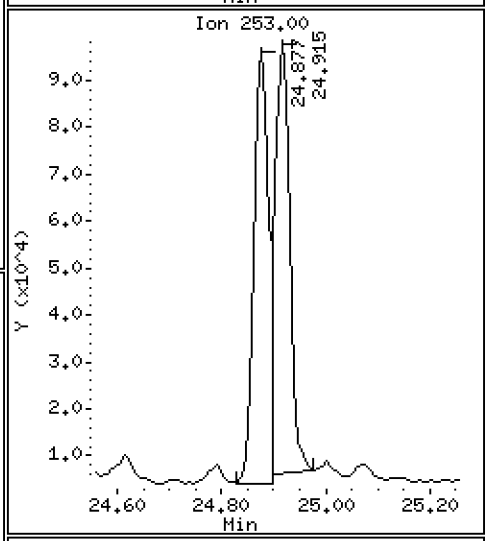


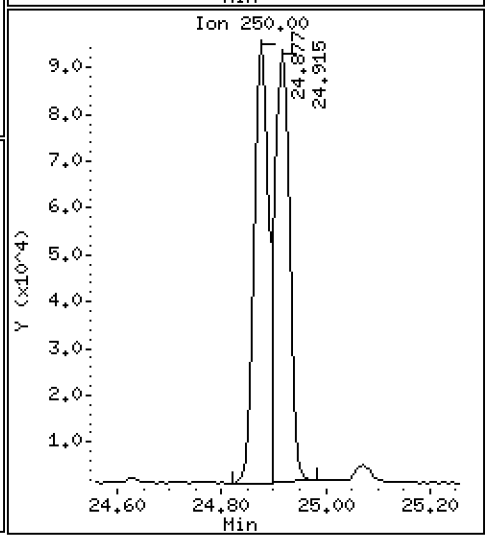












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

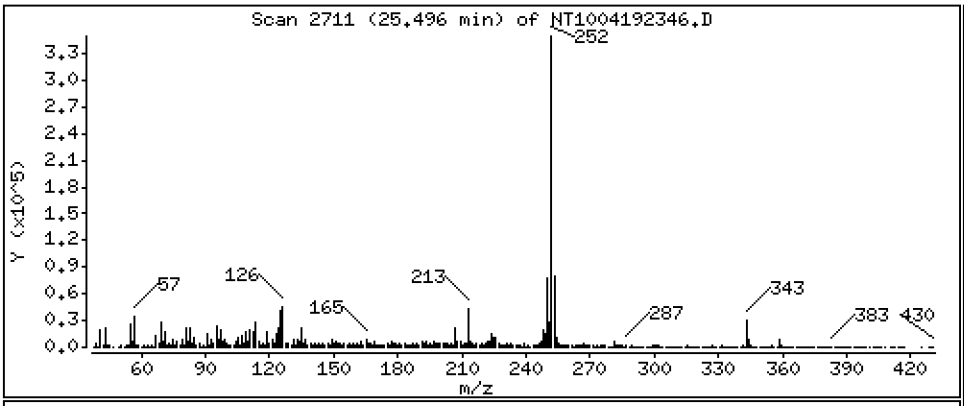
Operator: VTS

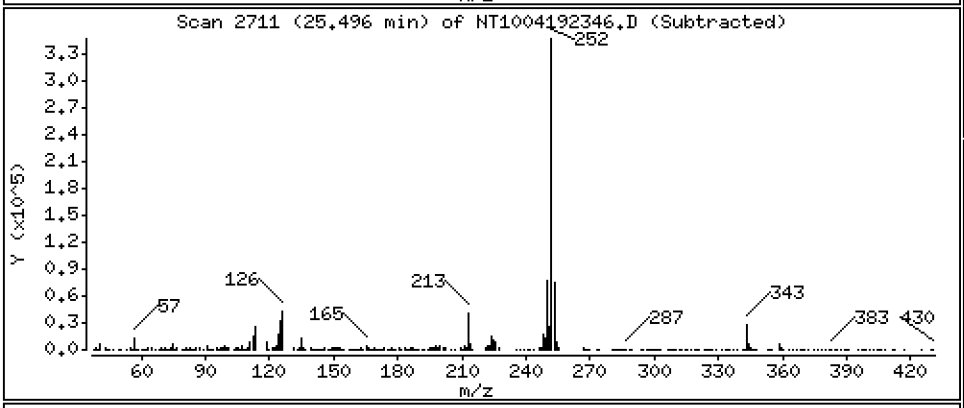
Column phase: ZB-5msi

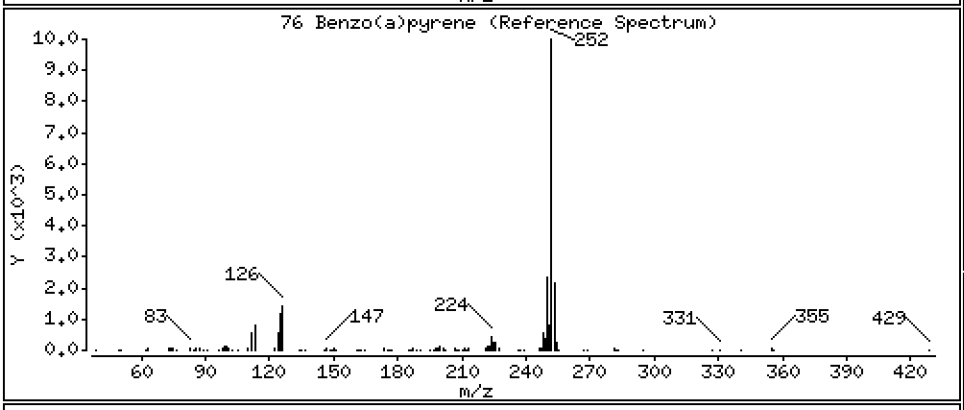
Column diameter: 0.25

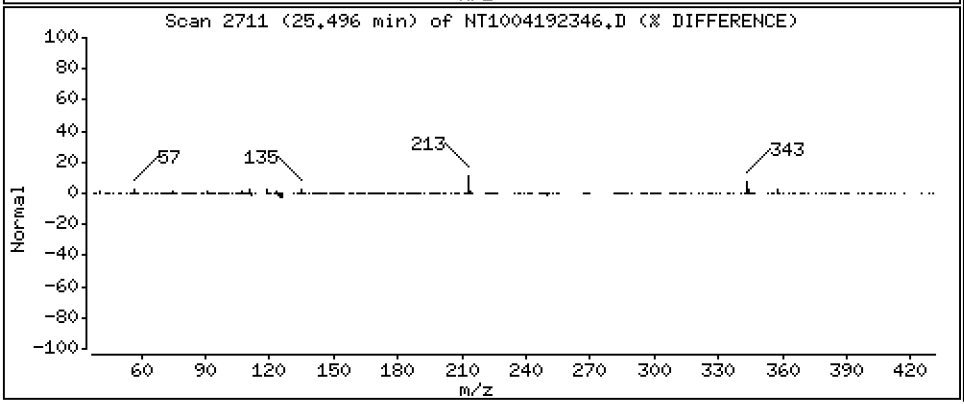
76 Benzo(a)pyrene

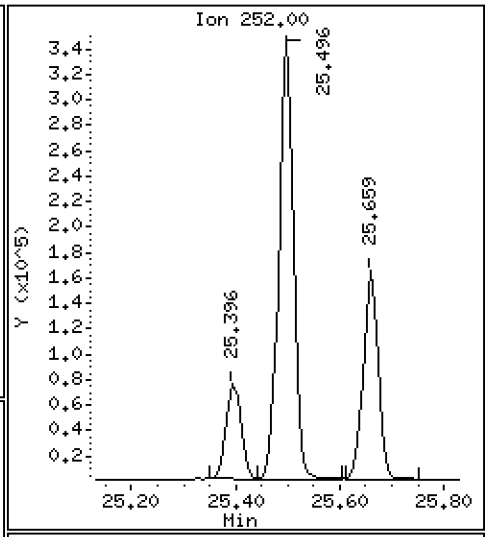
Concentration: 4.279 ug/mL

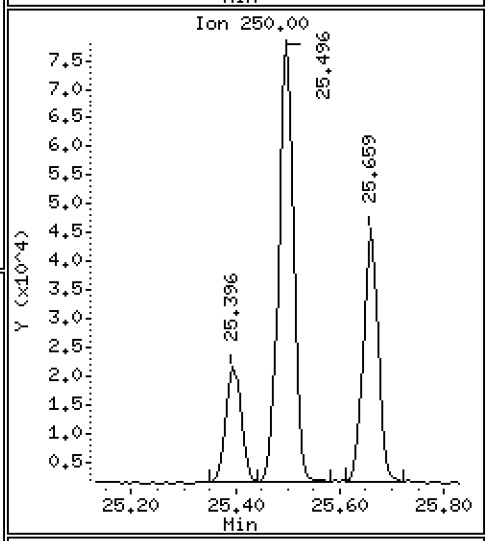


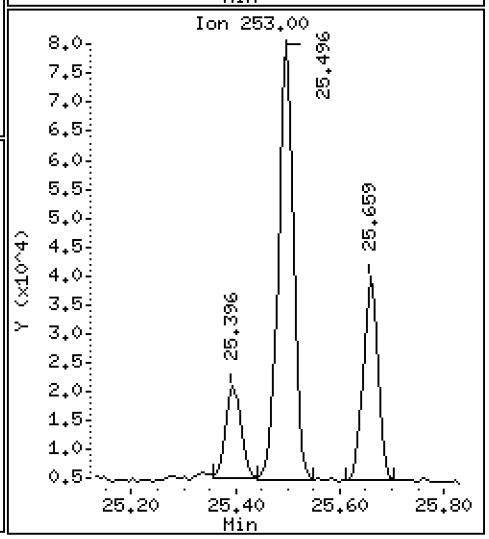












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

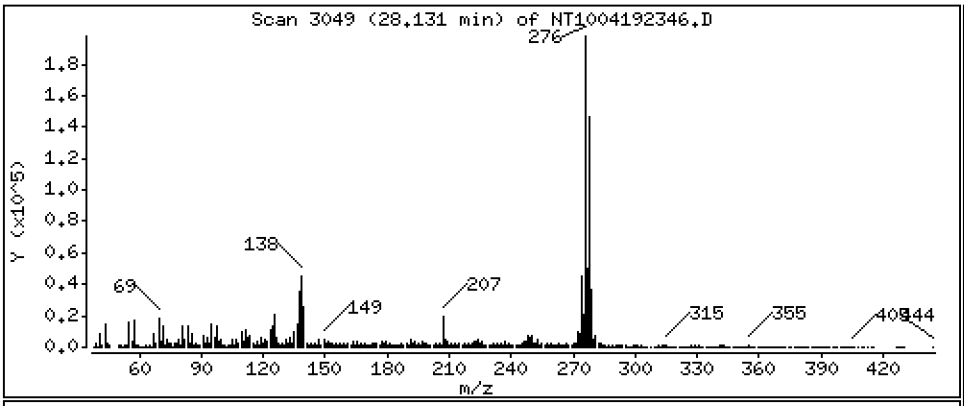
Operator: VTS

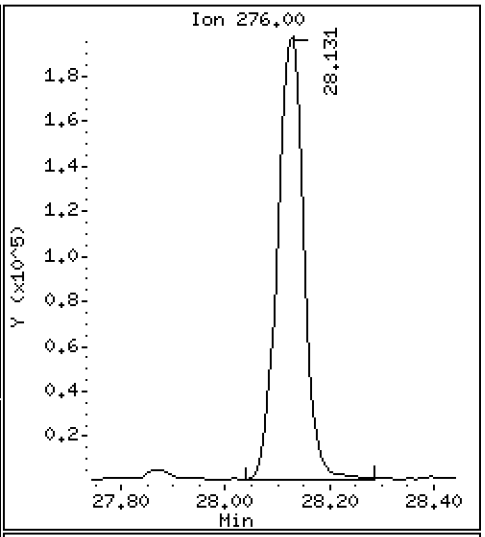
Column phase: ZB-5msi

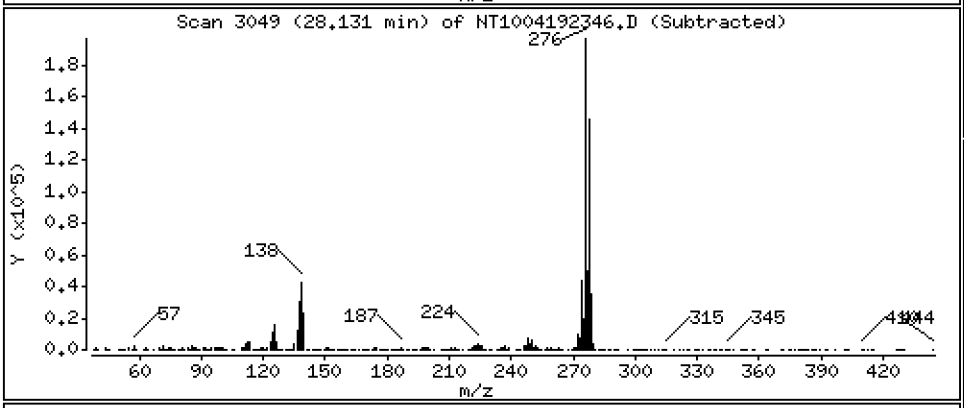
Column diameter: 0.25

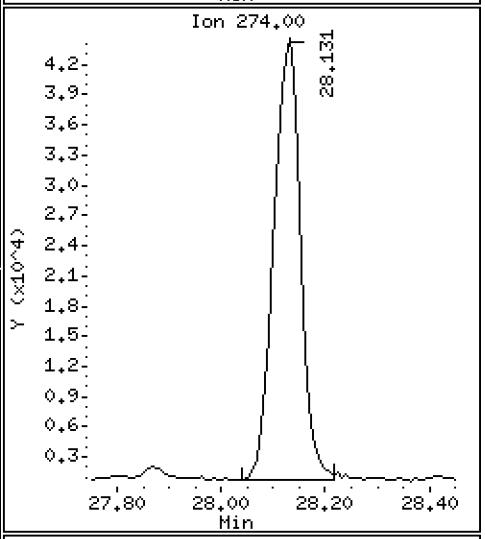
78 Indeno(1,2,3-cd)pyrene

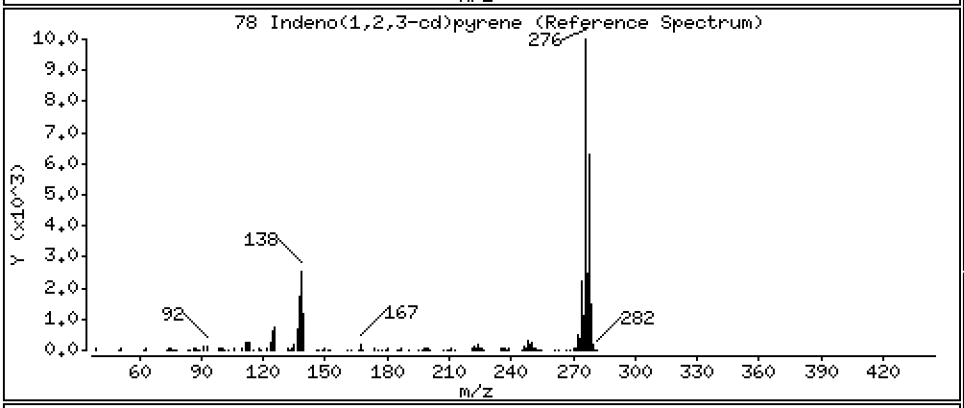
Concentration: 3.493 ug/mL

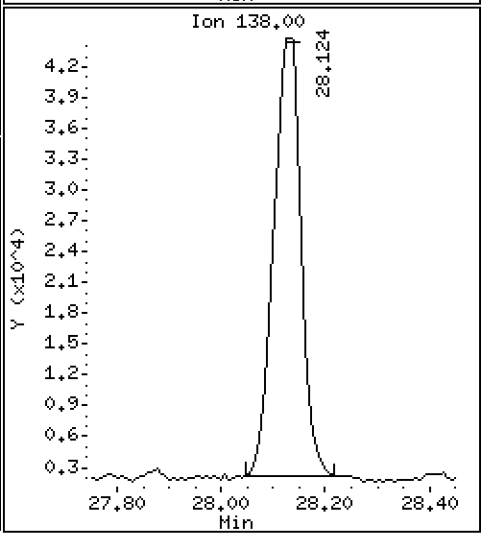


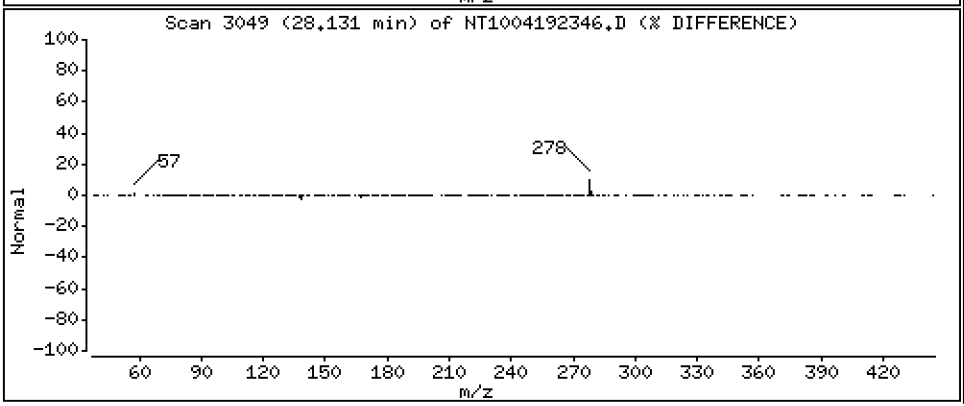












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

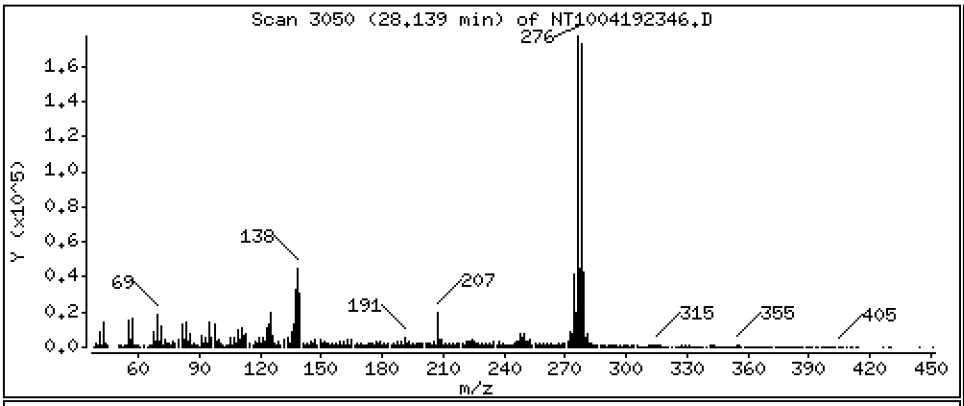
Operator: VTS

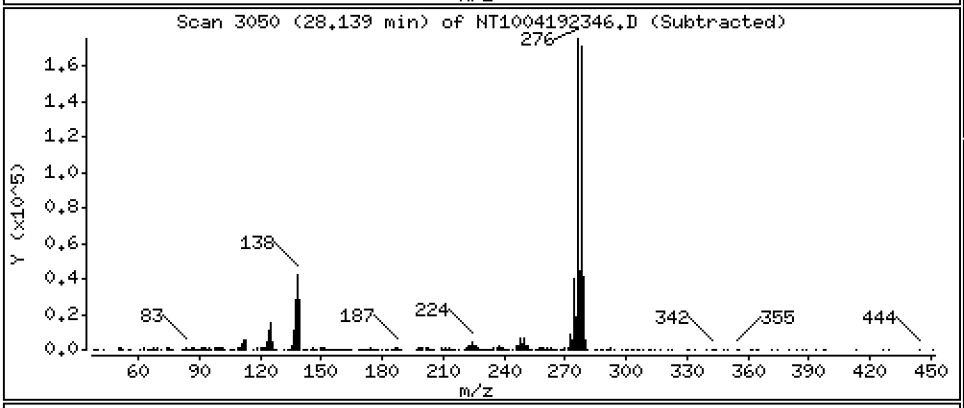
Column phase: ZB-5msi

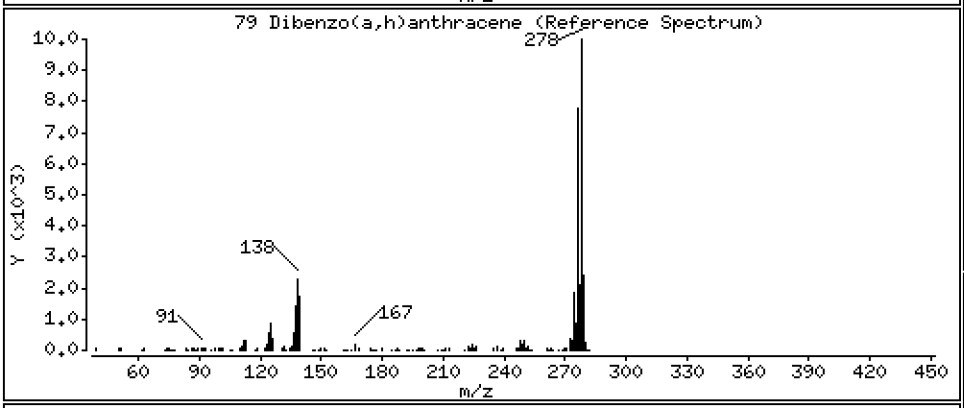
Column diameter: 0.25

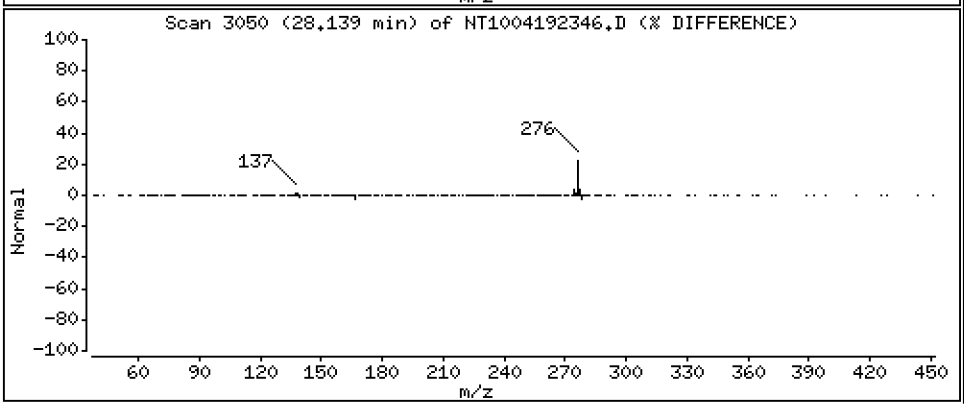
79 Dibenzo(a,h)anthracene

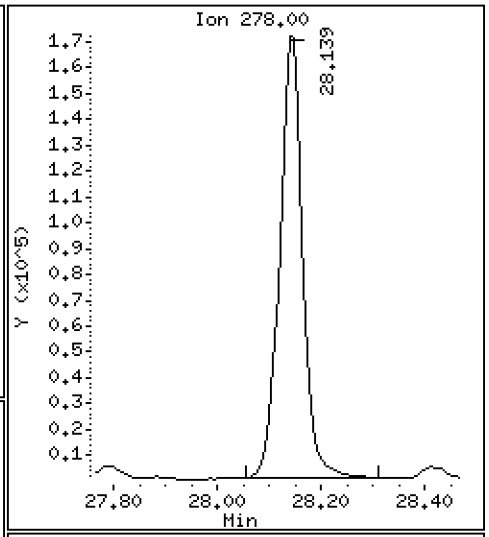
Concentration: 3.149 ug/mL

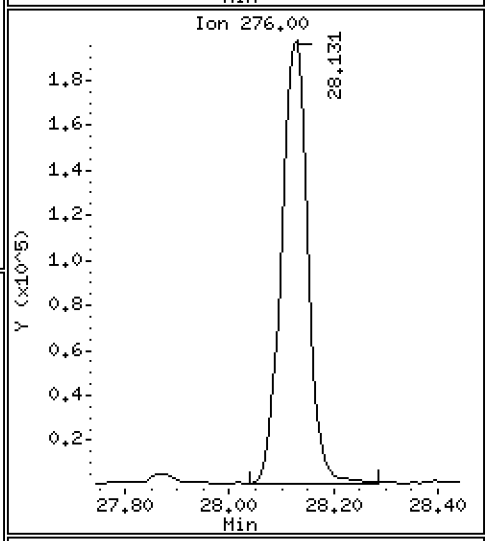


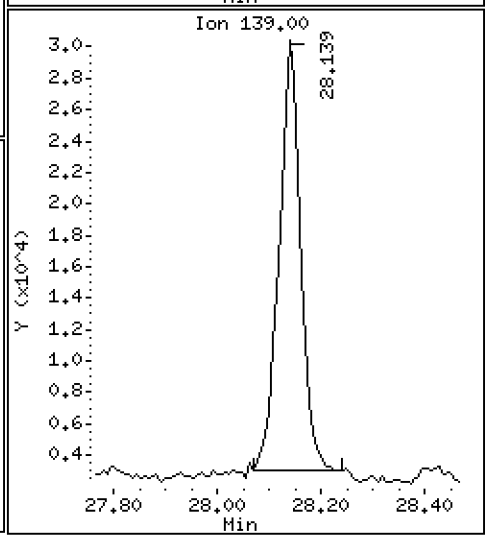












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

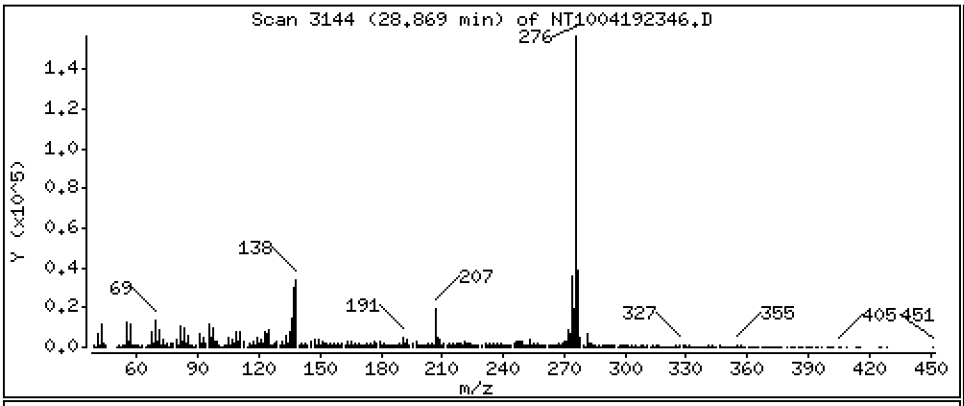
Operator: VTS

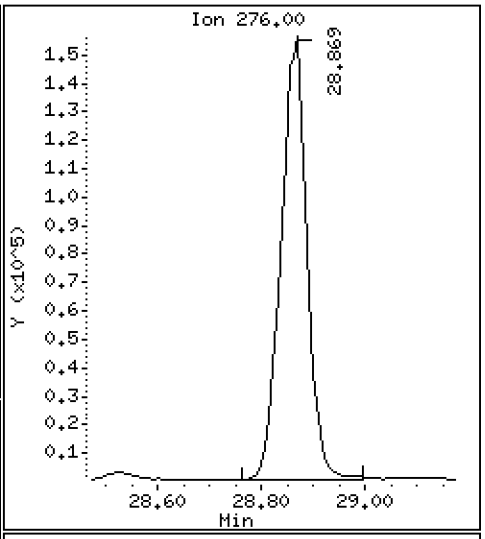
Column phase: ZB-5msi

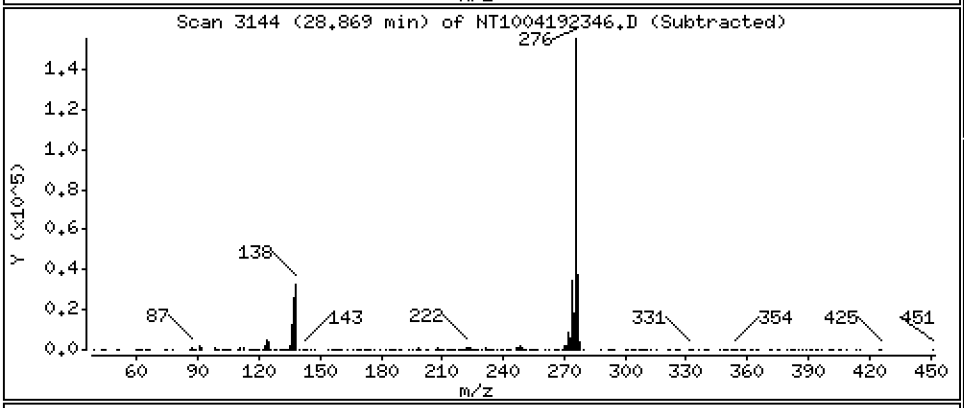
Column diameter: 0.25

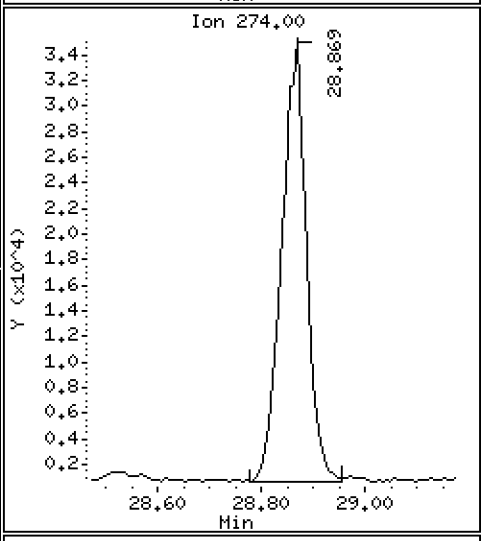
80 Benzo(g,h,i)perylene

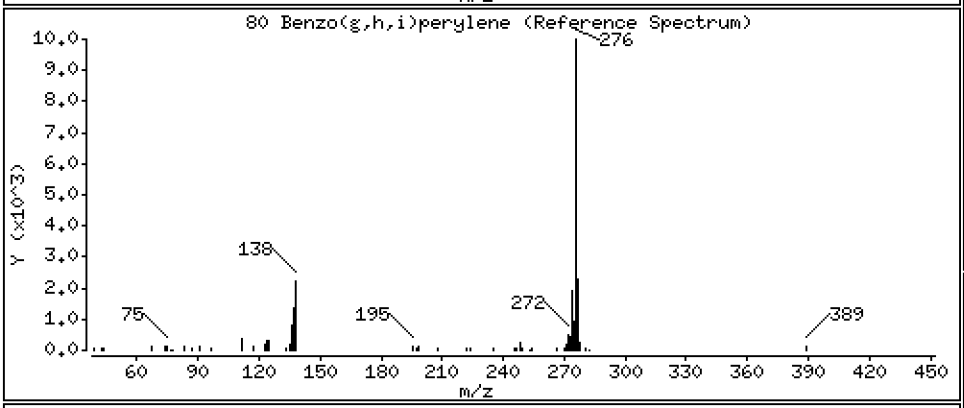
Concentration: 3.117 ug/mL

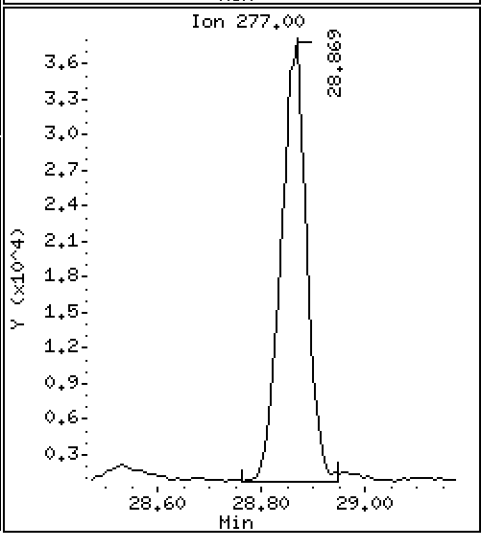


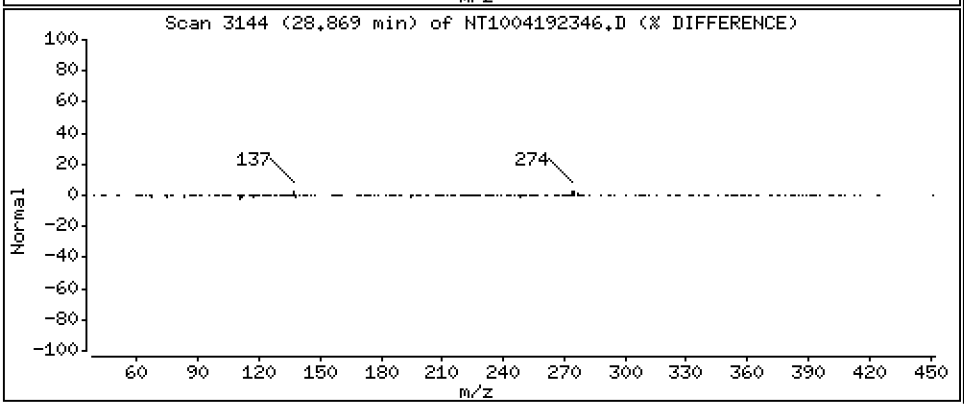












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192346.D

Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

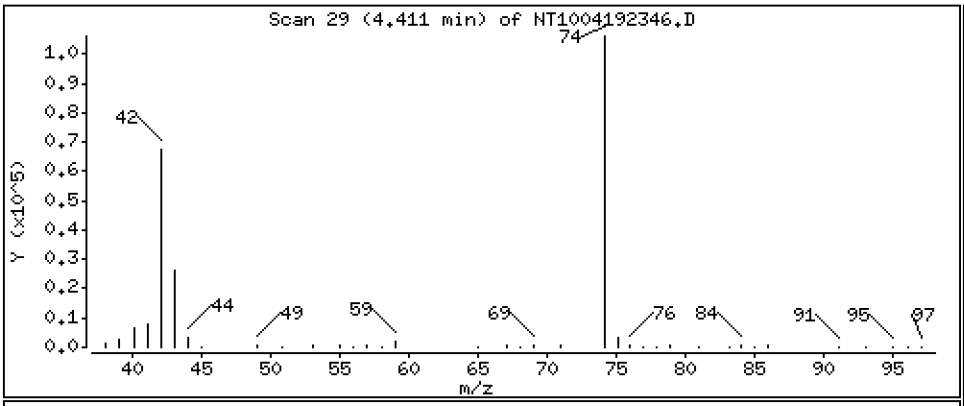
Operator: VTS

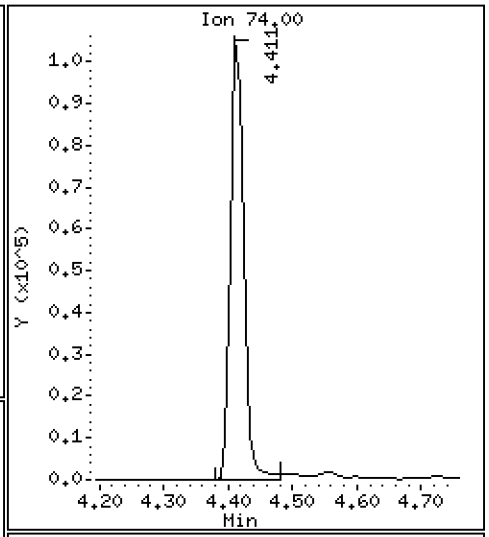
Column phase: ZB-5msi

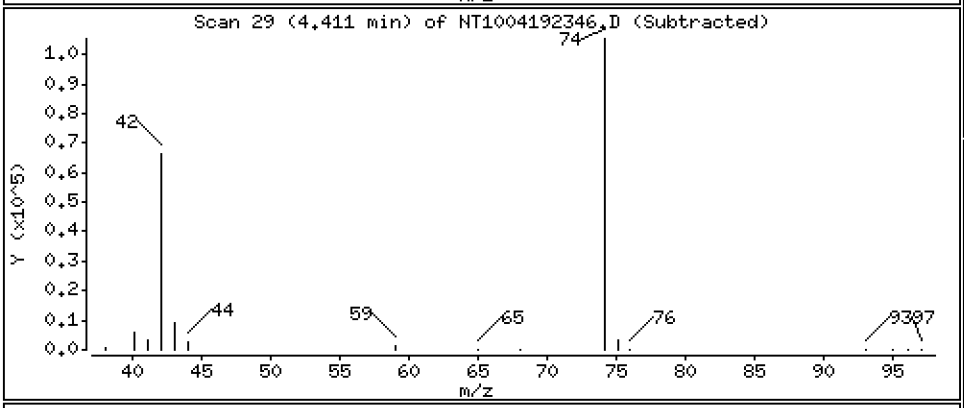
Column diameter: 0.25

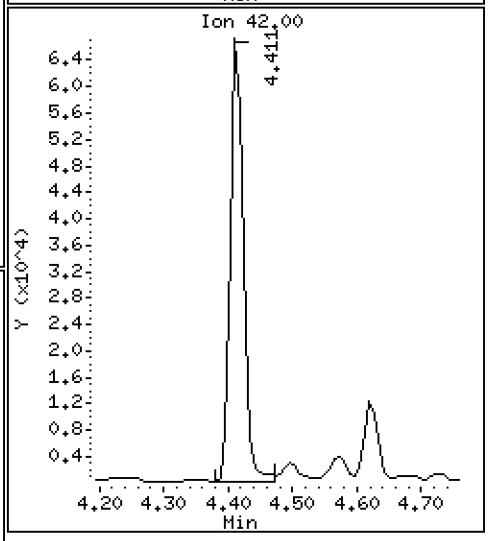
90 N-Nitrosodimethylamine

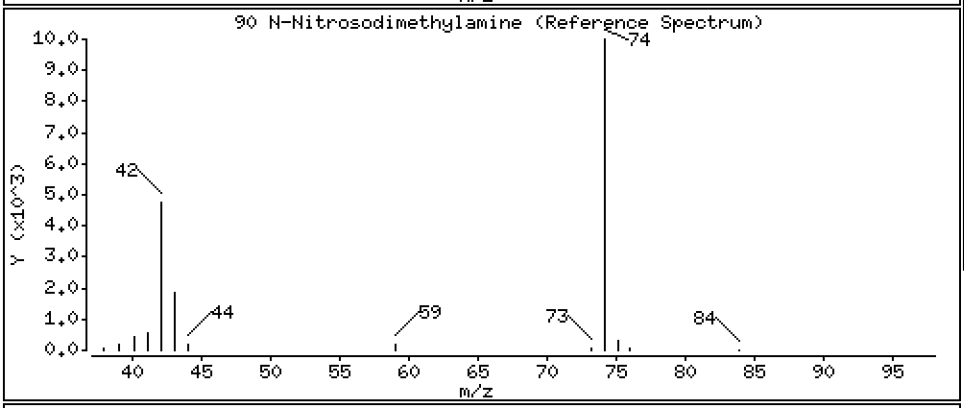
Concentration: 6.484 ug/mL

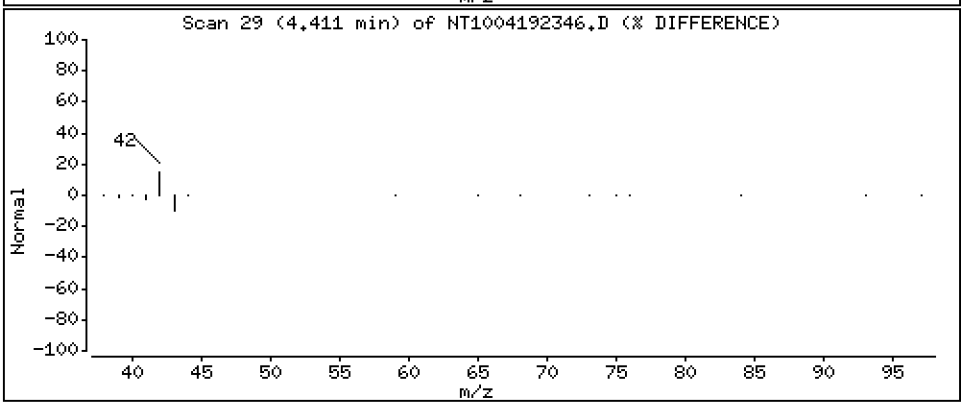












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

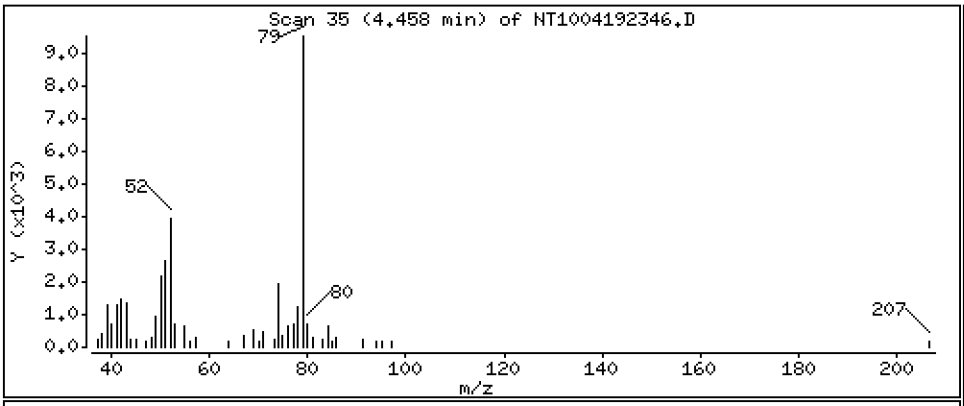
Operator: VTS

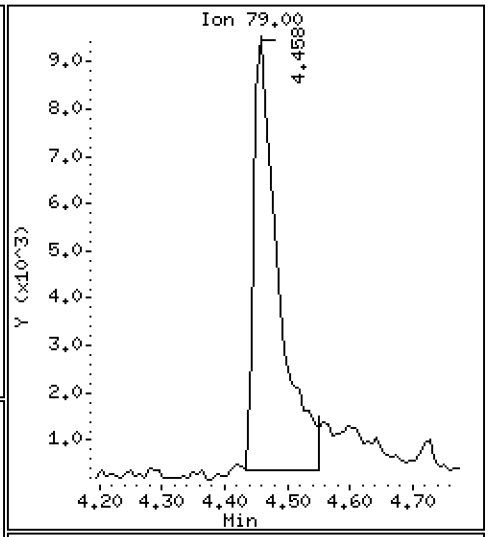
Column phase: ZB-5msi

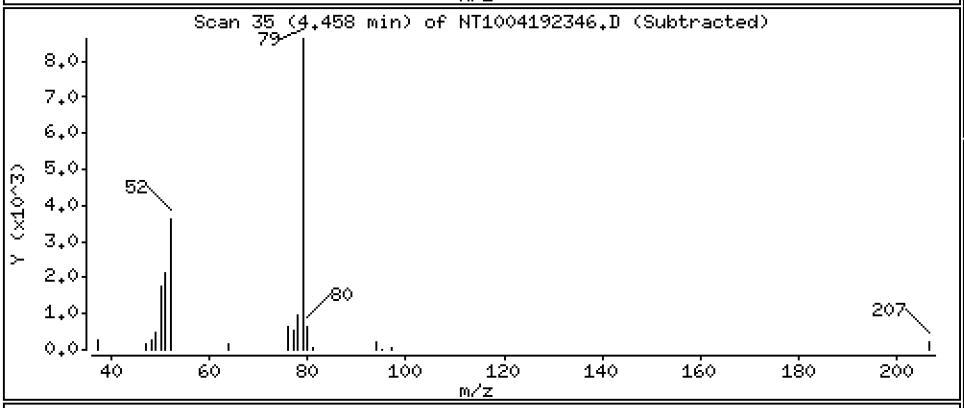
Column diameter: 0.25

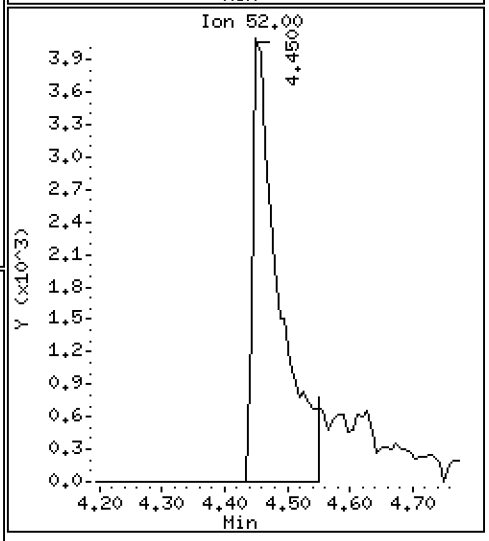
103 Pyridine

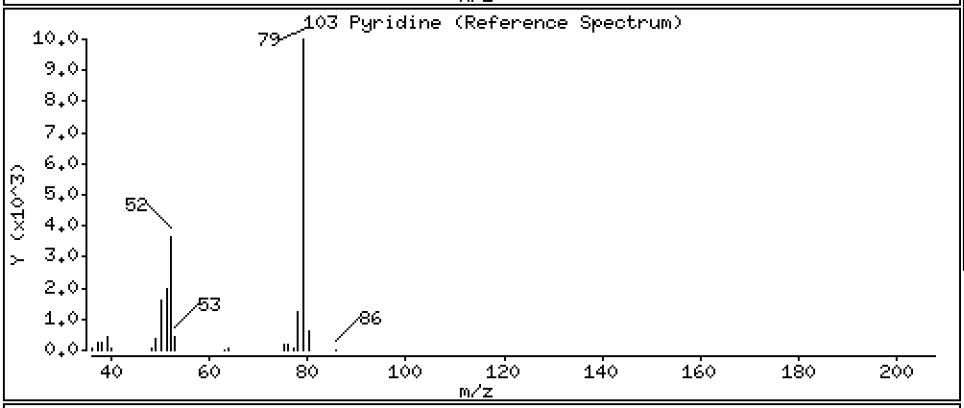
Concentration: 0.7068 ug/mL

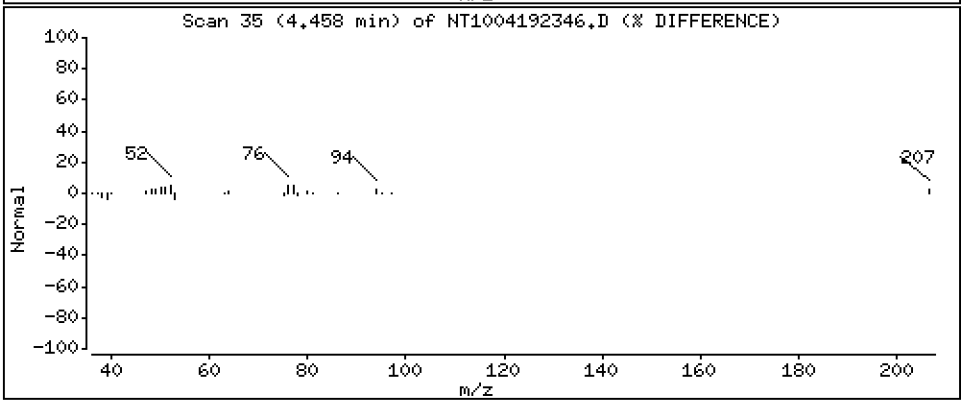












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

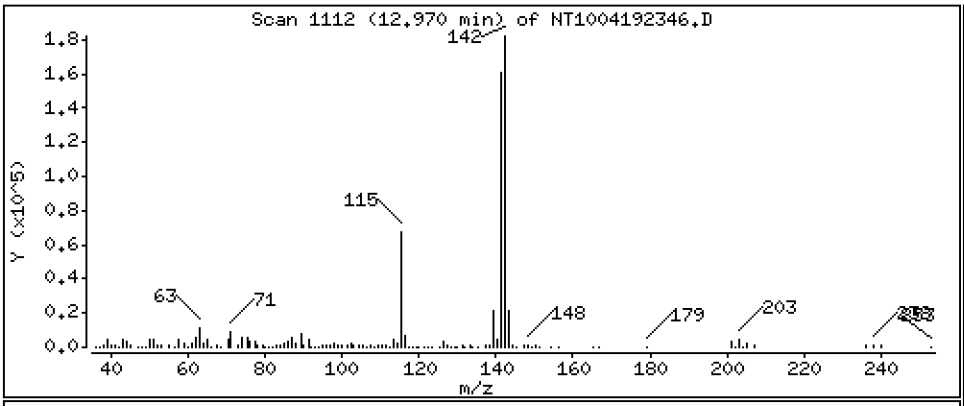
Operator: VTS

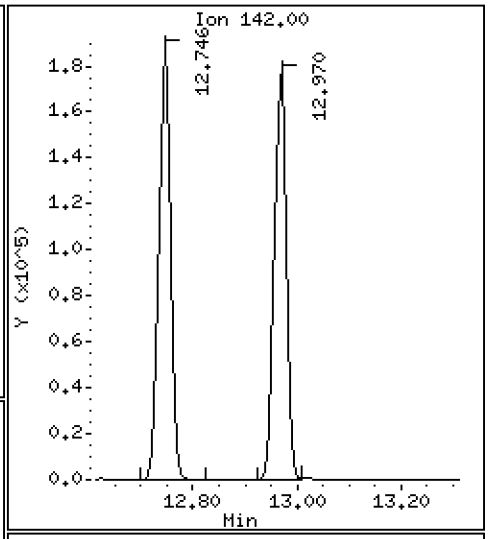
Column phase: ZB-5msi

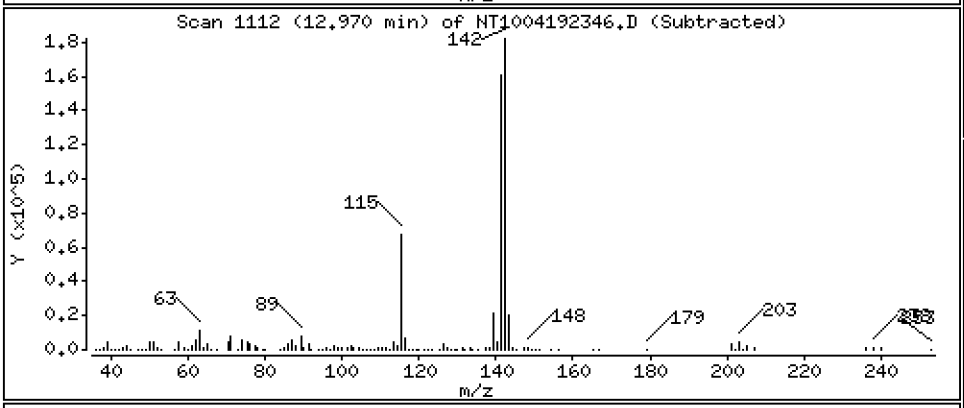
Column diameter: 0.25

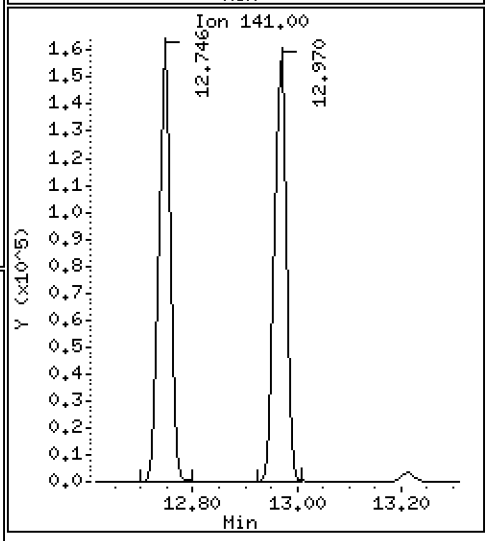
105 1-methylnaphthalene

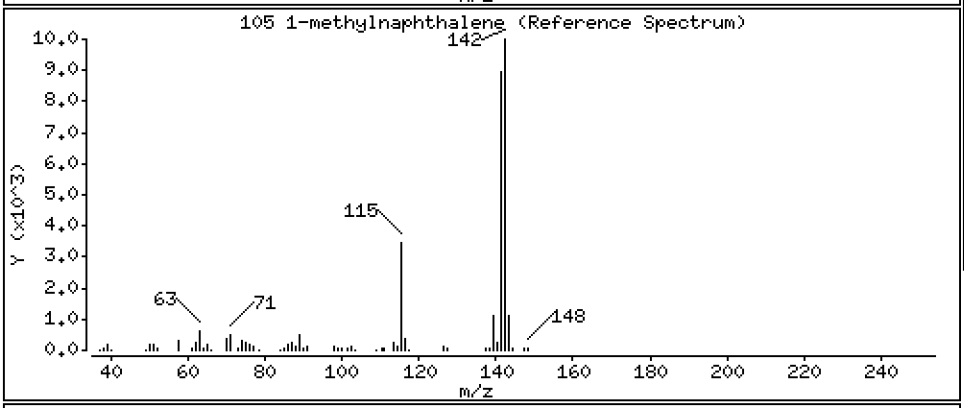
Concentration: 3.498 ug/mL

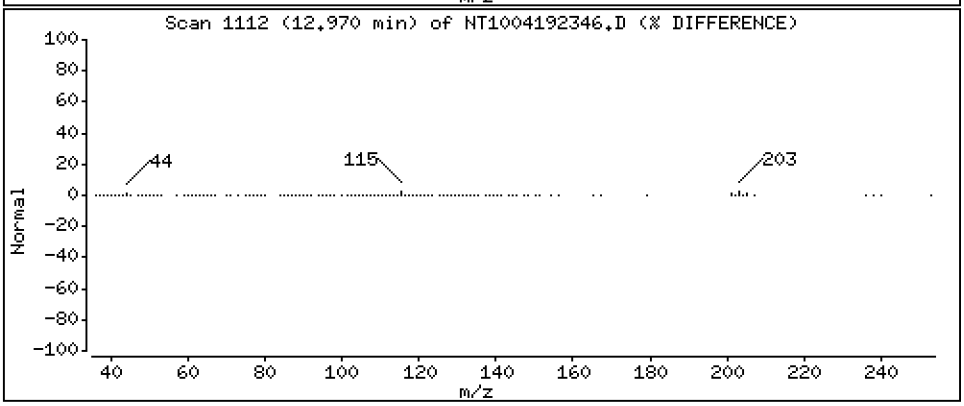












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192346.D

Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

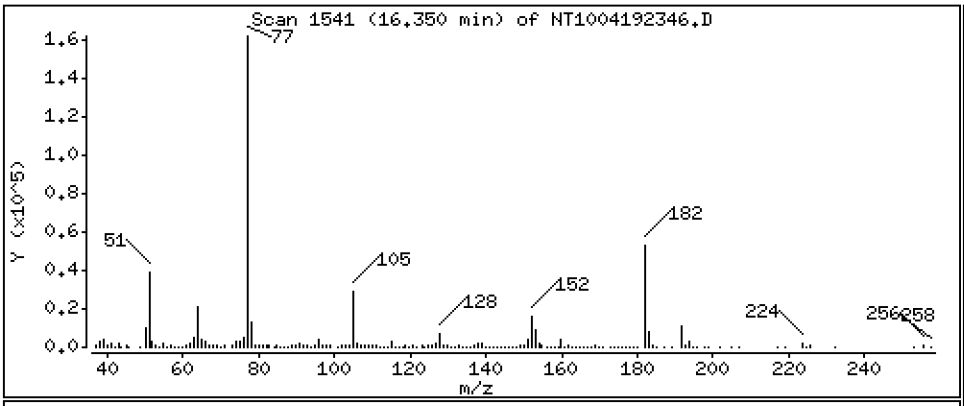
Operator: VTS

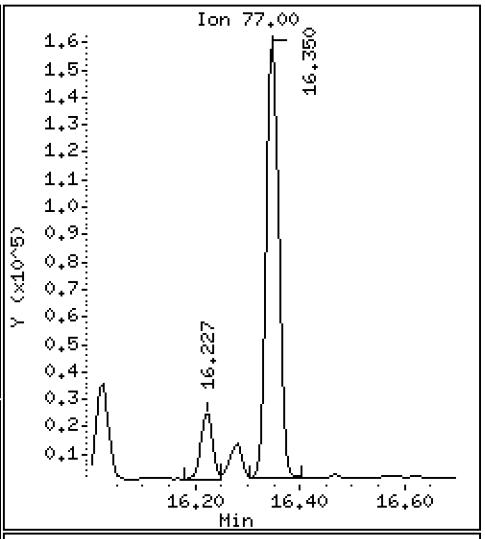
Column phase: ZB-5msi

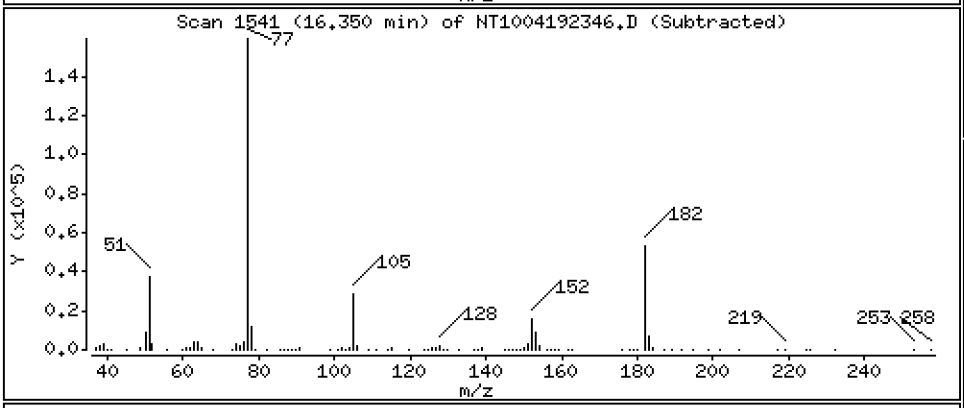
Column diameter: 0.25

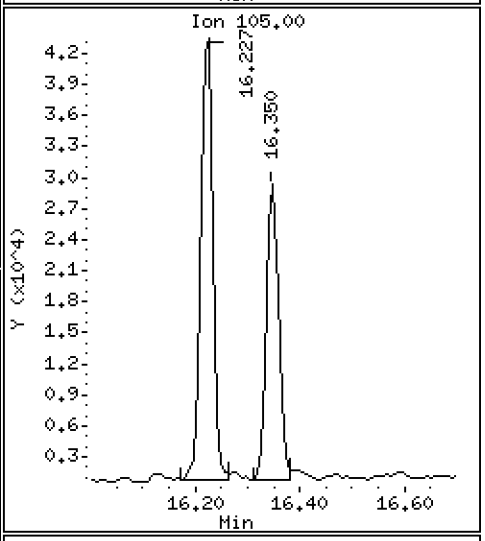
111 Azobenzene (1,2-DP-Hydrazine)

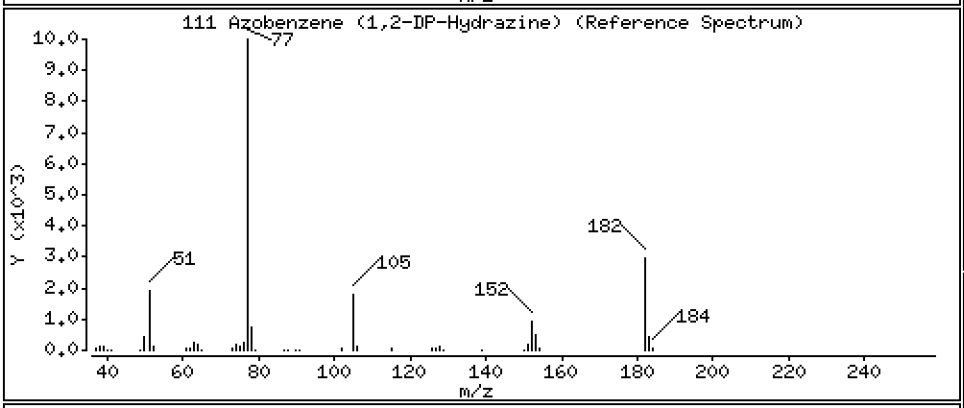
Concentration: 2.629 ug/mL

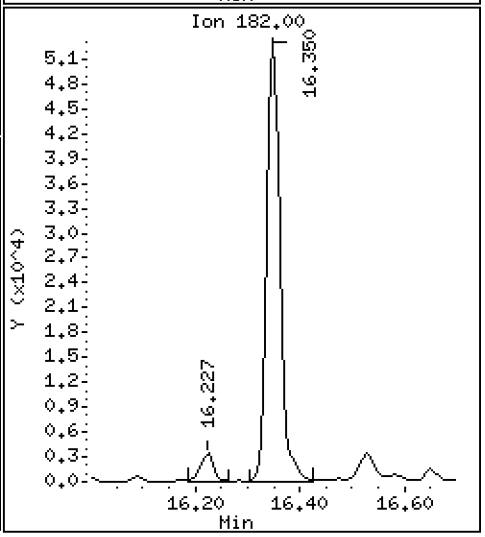


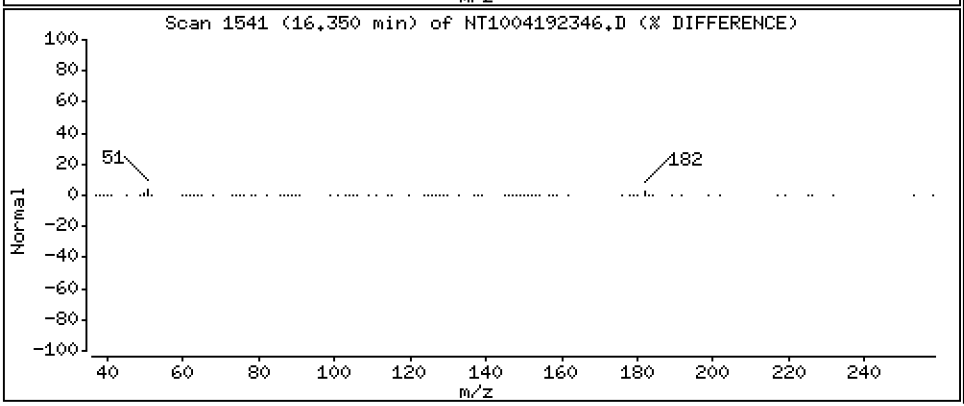












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

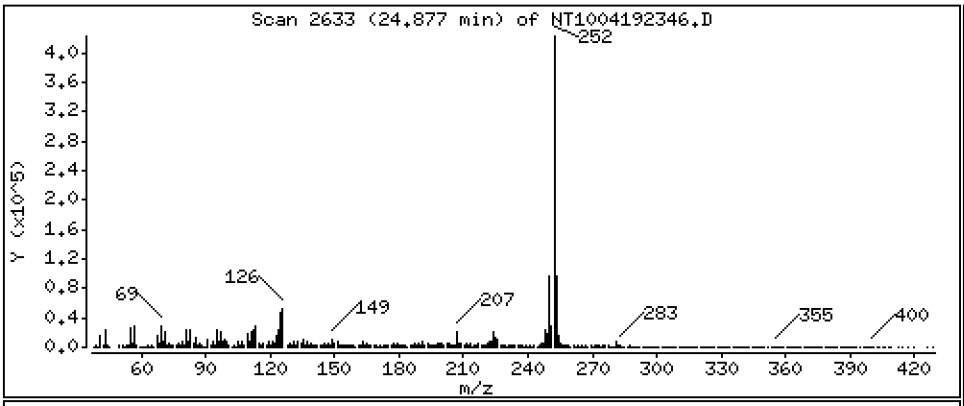
Operator: VTS

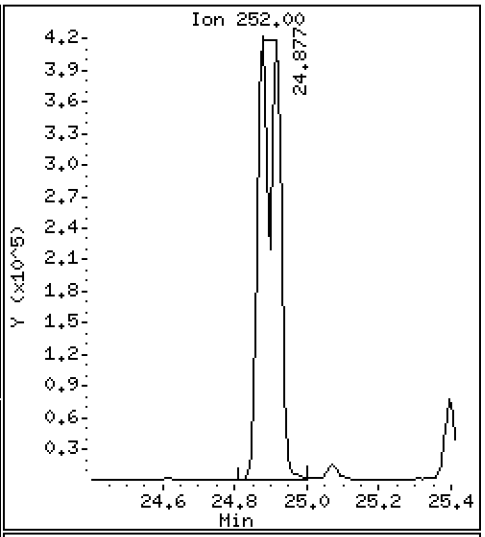
Column phase: ZB-5msi

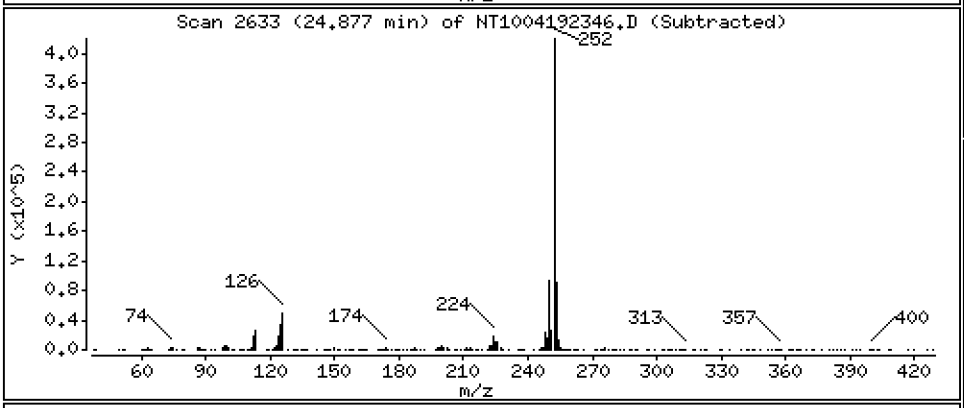
Column diameter: 0.25

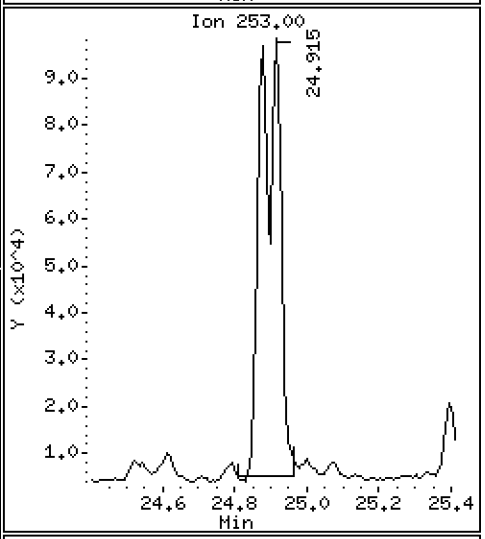
187 Total Benzofluoranthenes

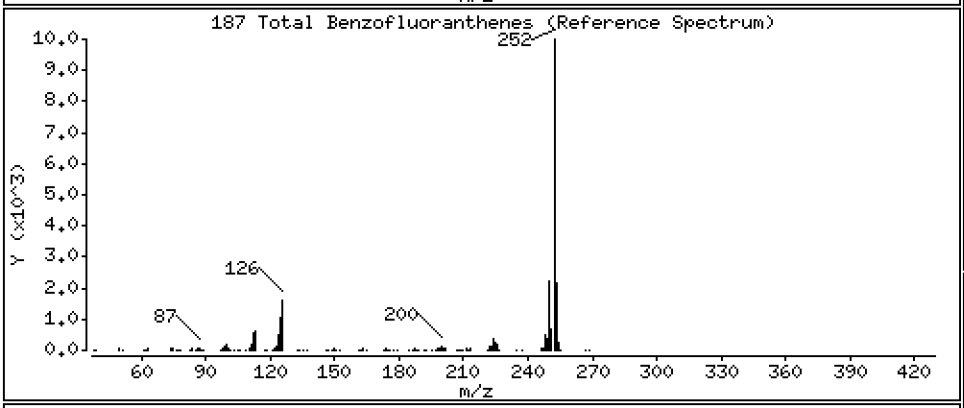
Concentration: 9.263 ug/mL

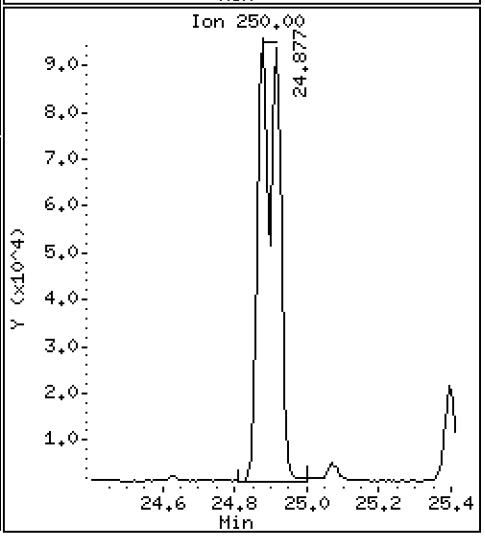


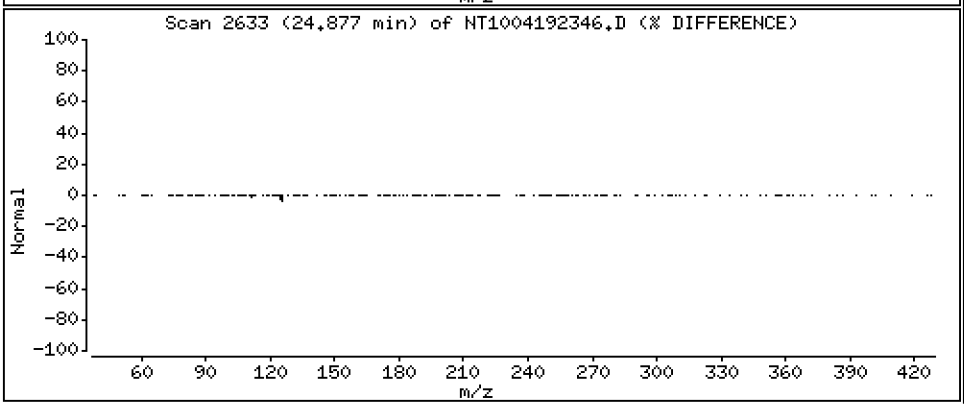












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD1

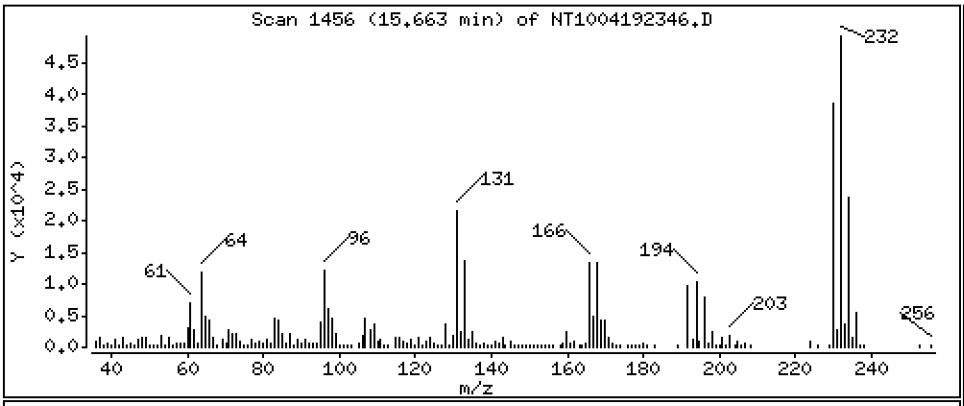
Operator: VTS

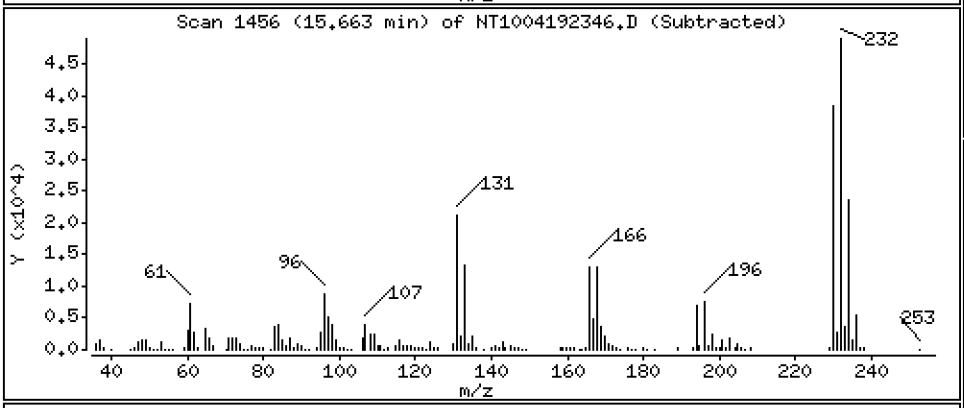
Column phase: ZB-5msi

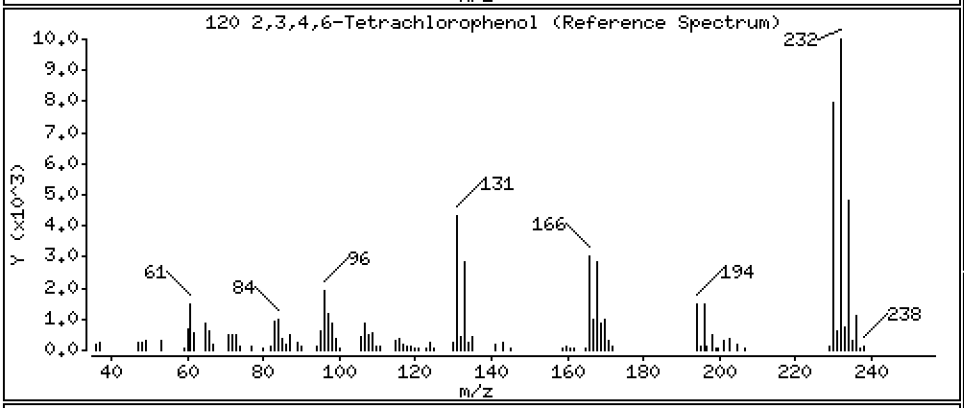
Column diameter: 0.25

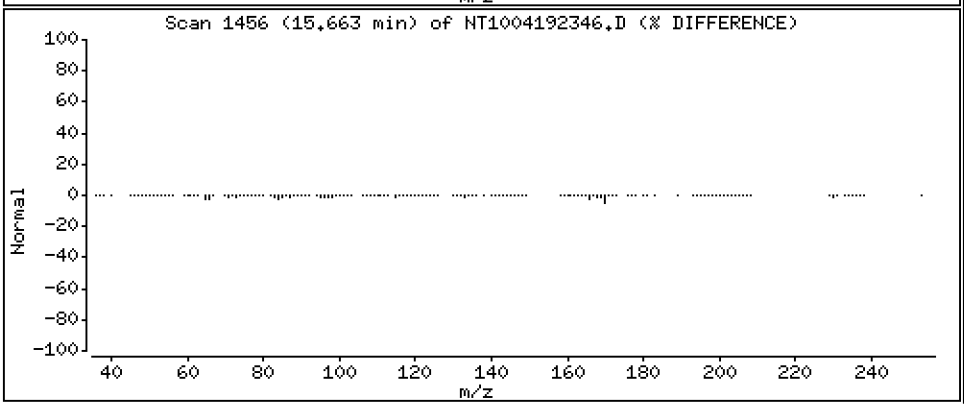
120 2,3,4,6-Tetrachlorophenol

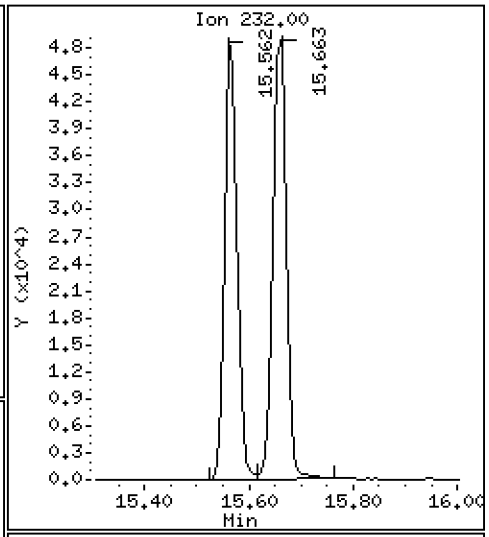
Concentration: 3.339 ug/mL

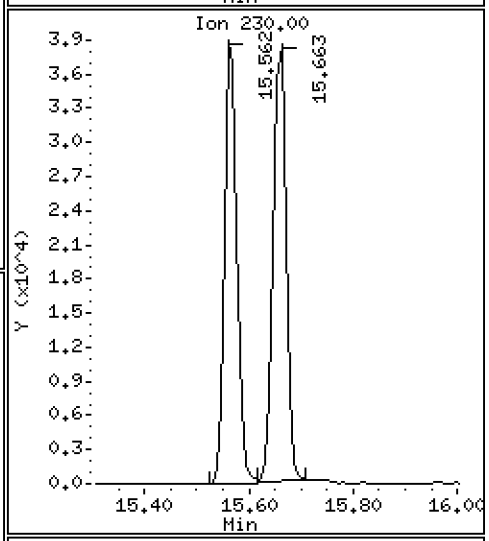


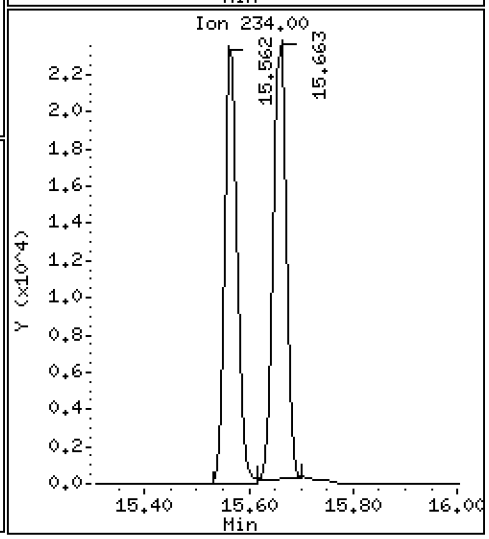












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230419B.b\NT1004192346.D
Lab Smp Id: BLD0008-MSD1
Inj Date : 20-APR-2023 15:56
Operator : VTS Inst ID: nt10.i
Smp Info : BLD0008-MSD1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Meth Date : 21-Apr-2023 11:46 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1	2-Fluorophenol	112	6.620	6.612	(0.750)	178826	4.89628	4.896
$	2	Phenol-d5	99	8.219	8.219	(0.931)	231416	4.82997	4.830
	3	Phenol	94	8.242	8.235	(0.933)	153251	3.07803	3.078
$	5	2-Chlorophenol-d4	132	8.474	8.474	(0.960)	235295	5.75097	5.751
	4	Bis(2-Chloroethyl)ether	93	8.381	8.389	(0.949)	127401	3.45007	3.450
	6	2-Chlorophenol	128	8.505	8.497	(0.963)	142554	3.34538	3.345
	7	1,3-Dichlorobenzene	146	8.760	8.761	(0.992)	139529	3.09721	3.097
*	8	1,4-Dichlorobenzene-d4	152	8.830	8.830	(1.000)	120772	4.00000	
	9	1,4-Dichlorobenzene	146	8.861	8.861	(1.004)	140817	3.23575	3.236
$	10	1,2-Dichlorobenzene-d4	152	9.187	9.187	(1.040)	92694	3.15474	3.155
	12	1,2-Dichlorobenzene	146	9.210	9.211	(1.043)	137587	3.21246	3.212
	11	Benzyl alcohol	108	9.109	9.110	(1.032)	78533	3.36052	3.361
	14	2,2'-oxybis(1-Chloropropane)	121	9.412	9.413	(1.066)	45091	3.58499	3.585
	13	2-Methylphenol	108	9.350	9.343	(1.059)	103856	2.86149	2.861
	17	Hexachloroethane	117	9.800	9.801	(1.110)	45956	2.57380	2.574
	16	N-Nitroso-di-n-propylamine	70	9.668	9.669	(1.095)	85935	2.99860	2.999
	15	4-Methylphenol	108	9.630	9.622	(1.091)	119254	3.11842	3.118
$	18	Nitrobenzene-d5	82	9.924	9.925	(0.877)	141086	3.09392	3.094
	19	Nitrobenzene	77	9.963	9.964	(0.881)	133667	2.98688	2.987
	20	Isophorone	82	10.413	10.414	(0.920)	261282	4.56396	4.564
	21	2-Nitrophenol	139	10.591	10.592	(0.936)	71167	3.25936	3.259
	22	2,4-Dimethylphenol	107	10.659	10.660	(0.942)	239662	5.83057	5.831
	23	Bis(2-Chloroethoxy)methane	93	10.854	10.846	(0.959)	133182	3.48270	3.483
	24	Benzoic acid	105	10.837	10.897	(0.958)	181913	7.83107	7.831
	25	2,4-Dichlorophenol	162	11.050	11.050	(0.977)	393402	11.9599	11.96
	26	1,2,4-Trichlorobenzene	180	11.229	11.230	(0.992)	127356	3.29838	3.298
*	27	Naphthalene-d8	136	11.314	11.307	(1.000)	451781	4.00000	
	28	Naphthalene	128	11.353	11.353	(1.003)	402931	3.36664	3.367
	29	4-Chloroaniline	127	11.515	11.492	(1.018)	54867	1.17512	1.175
	30	Hexachlorobutadiene	225	11.716	11.716	(1.036)	84782	3.74740	3.747
	31	4-Chloro-3-methylphenol	107	12.475	12.467	(1.103)	365208	10.2561	10.26
	32	2-Methylnaphthalene	142	12.745	12.746	(1.126)	286996	3.32284	3.323
	33	Hexachlorocyclopentadiene	237	13.210	13.210	(0.885)	45739	1.84035	1.840

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.380	13.373	(0.897)	290967	10.9625	10.96
	35	2,4,5-Trichlorophenol	196	13.457	13.450	(0.902)	309434	10.4922	10.49
$	36	2-Fluorobiphenyl	172	13.535	13.527	(0.907)	342835	3.22733	3.227
	37	2-Chloronaphthalene	162	13.736	13.736	(0.921)	270218	3.14155	3.142
	38	2-Nitroaniline	65	14.007	14.007	(0.939)	186344	7.71244	7.712
	39	Dimethylphthalate	163	14.440	14.441	(0.968)	308676	3.53830	3.538
	40	Acenaphthylene	152	14.603	14.603	(0.979)	414025	3.08903	3.089
	41	2,6-Dinitrotoluene	165	14.580	14.580	(0.977)	195188	10.3572	10.36
*	42	Acenaphthene-d10	164	14.920	14.913	(1.000)	268544	4.00000	
	43	3-Nitroaniline	138	14.866	14.859	(0.996)	76795	3.61031	3.610
	44	Acenaphthene	153	14.982	14.982	(1.004)	267370	3.22903	3.229
	45	2,4-Dinitrophenol	184	15.075	15.067	(1.010)	28573	2.50045	2.500
	46	Dibenzofuran	168	15.314	15.307	(1.026)	387269	3.17164	3.172
	47	4-Nitrophenol	109	15.222	15.206	(1.020)	103862	7.80097	7.801
	48	2,4-Dinitrotoluene	165	15.384	15.384	(1.031)	256293	9.12492	9.125
	50	Diethylphthalate	149	15.902	15.902	(1.066)	320526	3.74471	3.745
	49	Fluorene	166	16.026	16.018	(1.074)	359871	3.74621	3.746
	51	4-Chlorophenyl-phenylether	204	16.026	16.018	(1.074)	164085	3.59199	3.592
	52	4-Nitroaniline	138	16.134	16.126	(1.081)	91294	4.76253	4.763
	53	4,6-Dinitro-2-methylphenol	198	16.226	16.219	(0.904)	199776	13.7265	13.73
	54	N-Nitrosodiphenylamine	169	16.280	16.273	(0.907)	205069	3.23197	3.232
$	55	2,4,6-Tribromophenol	330	16.558	16.558	(1.110)	74663	5.95545	5.955
	56	4-Bromophenyl-phenylether	248	17.028	17.021	(0.948)	107142	4.03641	4.036
	57	Hexachlorobenzene	284	17.338	17.330	(0.966)	107136	3.84969	3.850
	58	Pentachlorophenol	266	17.701	17.694	(0.986)	182897	10.8781	10.88
*	59	Phenanthrene-d10	188	17.957	17.949	(1.000)	474583	4.00000	
	60	Phenanthrene	178	18.003	17.996	(1.003)	494696	3.82275	3.823
	61	Anthracene	178	18.096	18.089	(1.008)	402084	3.23905	3.239
	62	Carbazole	167	18.436	18.429	(1.027)	372413	3.34791	3.348
	63	Di-n-butylphthalate	149	19.272	19.265	(1.073)	608253	4.08439	4.084
	64	Fluoranthene	202	20.417	20.402	(0.886)	735232	3.89295	3.893
	65	Pyrene	202	20.843	20.827	(0.904)	787316	4.06379	4.064
$	66	Terphenyl-d14	244	21.144	21.137	(0.917)	432902	2.97539	2.975
	67	Butylbenzylphthalate	149	22.097	22.089	(0.958)	247821	3.56426	3.564
	68	Benzo(a)anthracene	228	23.026	23.019	(0.999)	665424	4.01092	4.011
*	69	Chrysene-d12	240	23.057	23.042	(1.000)	470021	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.096	23.088	(1.002)	731514	4.51318	4.513
	72	bis(2-Ethylhexyl)phthalate	149	23.142	23.135	(0.959)	434837	3.98897	3.989
*	134	Di-n-octylphthalate-d4	153	24.133	24.126	(1.000)	743463	4.00000	
	73	Di-n-octylphthalate	149	24.141	24.133	(1.000)	671101	3.44934	3.449
	74	Benzo(b)fluoranthene	252	24.876	24.861	(0.971)	899798	5.01779	5.018
	75	Benzo(k)fluoranthene	252	24.915	24.908	(0.973)	806199	4.42756	4.428
	76	Benzo(a)pyrene	252	25.496	25.481	(0.995)	686058	4.27921	4.279
*	77	Perylene-d12	264	25.612	25.589	(1.000)	553204	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.131	28.092	(1.098)	712417	3.49275	3.493
	79	Dibenzo(a,h)anthracene	278	28.139	28.116	(1.099)	533248	3.14897	3.149
	80	Benzo(g,h,i)perylene	276	28.869	28.822	(1.127)	550278	3.11738	3.117
	90	N-Nitrosodimethylamine	74	4.411	4.411	(0.500)	151083	6.48402	6.484
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	4.457	4.426	(0.505)	25292	0.70677	0.7068
	105	1-methylnaphthalene	142	12.970	12.962	(1.146)	276802	3.49790	3.498
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.349	16.350	(1.096)	251408	2.62940	2.629

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	24.876	24.908	(0.971)	1603822	9.26319	9.263
120 2,3,4,6-Tetrachlorophenol	232	15.662	15.655	(1.050)	92175	3.33929	3.339

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192346.D
Lab Smp Id: BLD0008-MSD1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Misc Info:

Calibration Date: 20-APR-2023
Calibration Time: 07:41
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	129725	64863	259450	120772	-6.90
27 Naphthalene-d8	475671	237836	951342	451781	-5.02
42 Acenaphthene-d10	277889	138945	555778	268544	-3.36
59 Phenanthrene-d10	485346	242673	970692	474583	-2.22
69 Chrysene-d12	453075	226538	906150	470021	3.74
134 Di-n-octylphthala	697265	348633	1394530	743463	6.63
77 Perylene-d12	538138	269069	1076276	553204	2.80

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.83	8.33	9.33	8.83	-0.00
27 Naphthalene-d8	11.31	10.81	11.81	11.31	0.07
42 Acenaphthene-d10	14.91	14.41	15.41	14.92	0.05
59 Phenanthrene-d10	17.95	17.45	18.45	17.96	0.04
69 Chrysene-d12	23.04	22.54	23.54	23.06	0.07
134 Di-n-octylphthala	24.13	23.63	24.63	24.13	0.03
77 Perylene-d12	25.59	25.09	26.09	25.61	0.09

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

REVIEW SUMMARY FOR FILE - NT1004192346.D

Lab ID: BLD0008-MSD1
nt10.i, 20230419B.b\ABN.m,   20-APR-2023 15:56

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.958	0.964	-0.0059	Benzoic acid

RRT check based on Ccal File: NT1004192333.D

On Column LOD for nt10.i, 20230419B.b\ABN.m, ICAL.sub = 0.0000

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

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 8270E

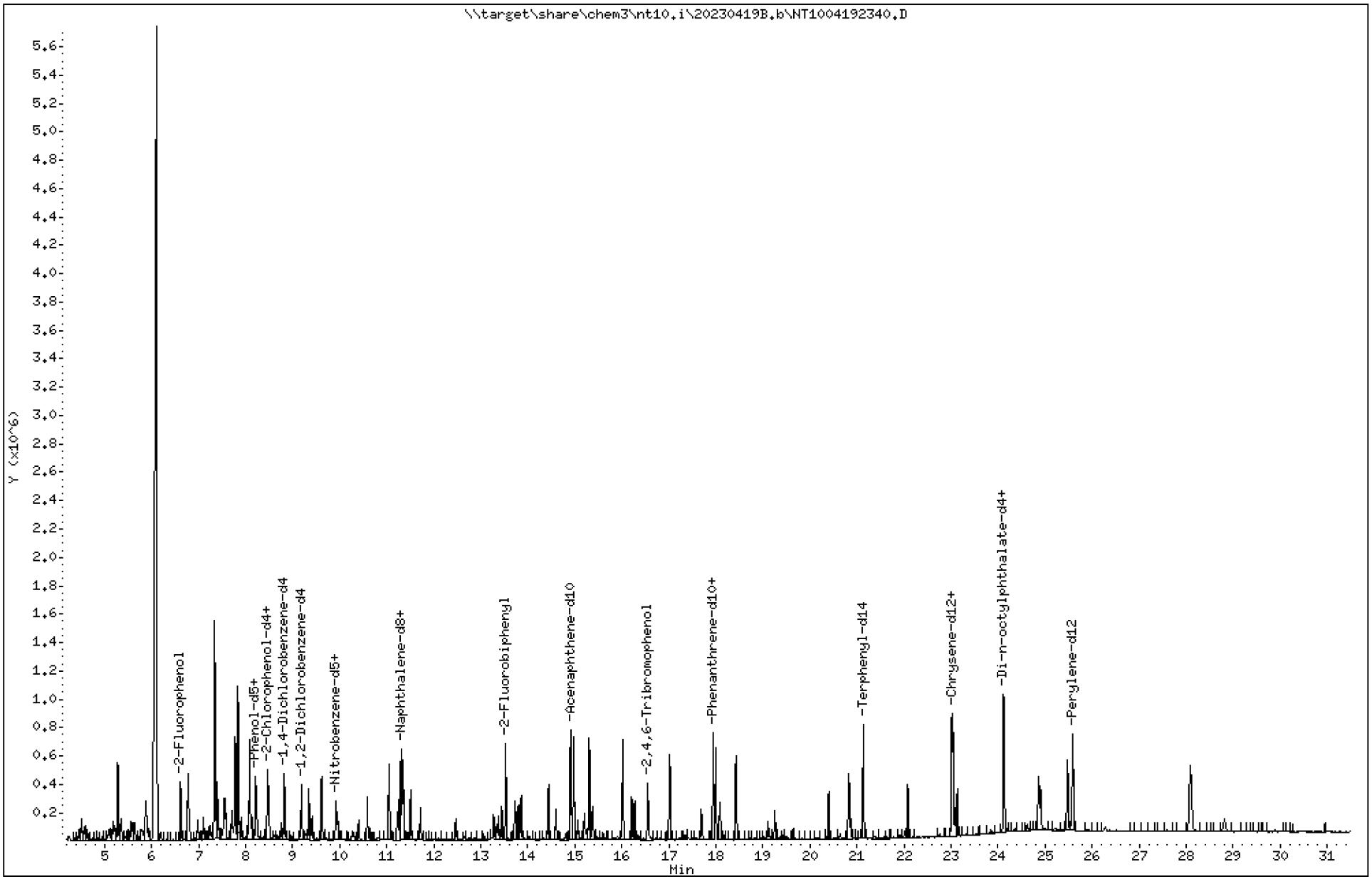
Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BLD0008-SRM1
Batch: BLD0008
Initial/Final: 1 g / 1 mL
Preparation: EPA 3546 (Microwave)
Analyzed: 04/20/2023 12:07
Standard ID: K003477
Expires: 01/31/2024
Standard Lot#: CRM 143 (LRAC8918)
Description: CRM 143 BNAs - Sandy Loam

ANALYTE	TRUE (ug/kg wet)	FOUND (ug/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Phenol	2660.0	1750	43.9	200		66.0	26 - 174
4-Methylphenol	6617.0	3690	73.9	200		55.7	40 - 160
Naphthalene	4458.0	3210	42.4	200		71.9	25 - 175
Acenaphthylene	1948.0	1050	62.4	200		53.9	37 - 167
Dimethylphthalate	4537.0	2860	43.9	200		63.1	41 - 159
Acenaphthene	5489.0	3420	52.2	200		62.2	41 - 159
Dibenzofuran	6130.0	3710	141	200		60.5	45 - 155
Fluorene	3724.0	2300	146	200		61.9	44 - 156
Phenanthrene	5052.0	2970	87.2	200		58.7	46 - 154
Anthracene	2866.0	1310	71.9	200		45.9	42 - 158
Fluoranthene	2497.0	1280	60.9	200	Q	51.3	39 - 161
Pyrene	2964.0	1590	56.8	200	Q	53.6	38 - 162
Butylbenzylphthalate	3511.0	1950	94.1	200		55.5	36 - 164
Benzo(a)anthracene	5751.0	3250	59.6	200		56.5	49 - 151
Chrysene	1477.0	778	60.6	200		52.6	45 - 155
bis(2-Ethylhexyl)phthalate	2905.0	1500	54.6	500		51.5	26 - 174
Benzofluoranthenes, Total	6534.0	3260	100	400		49.9	40 - 160
Benzo(a)pyrene	5902.0	2720	42.3	200		46.0	43 - 157
Indeno(1,2,3-cd)pyrene	3914.0	2140	147	200		54.5	22 - 178
Dibenzo(a,h)anthracene	3420.0	1930	172	200		56.3	37 - 163
Benzo(g,h,i)perylene	1380.0	704	136	200	Q	51.0	35 - 165

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192340.D
Date : 20-APR-2023 12:07
Client ID:
Sample Info: BLD0008-SRM1

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



Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192340.D

Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

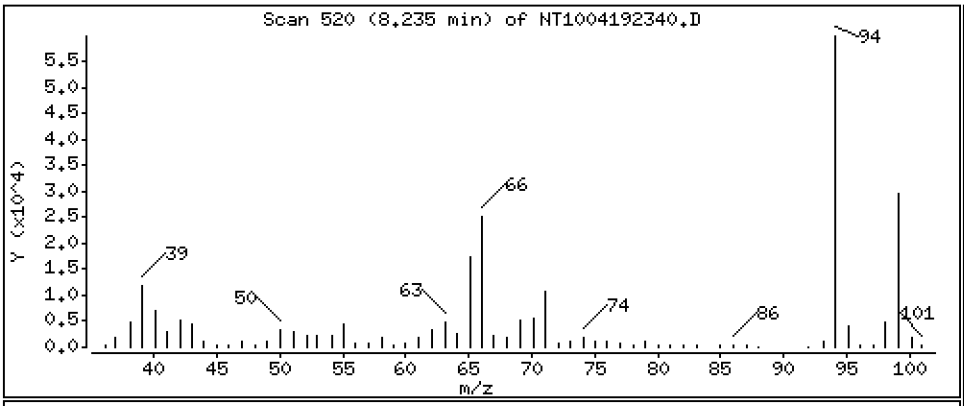
Operator: VTS

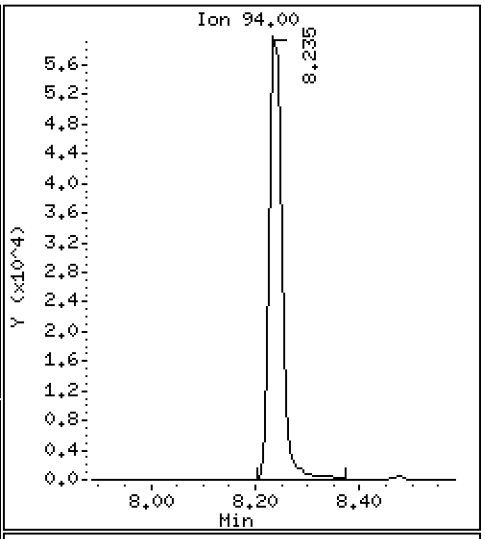
Column phase: ZB-5msi

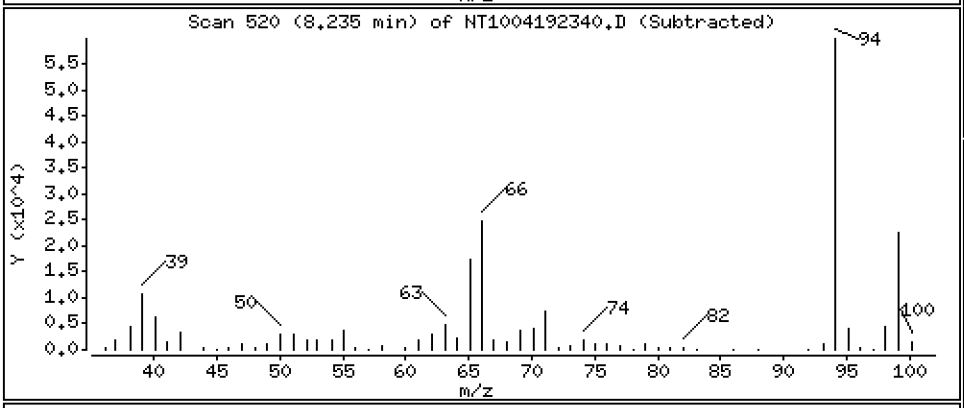
Column diameter: 0.25

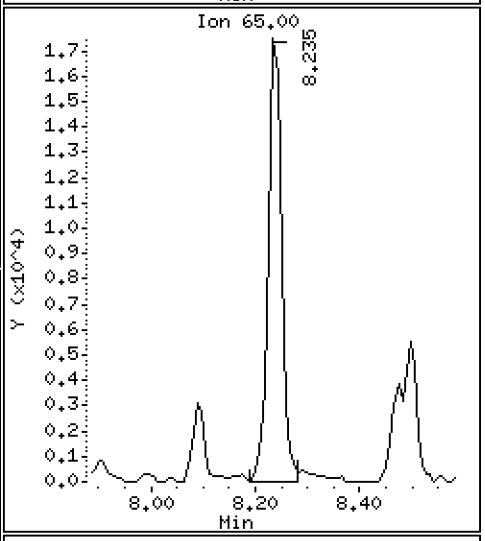
3 Phenol

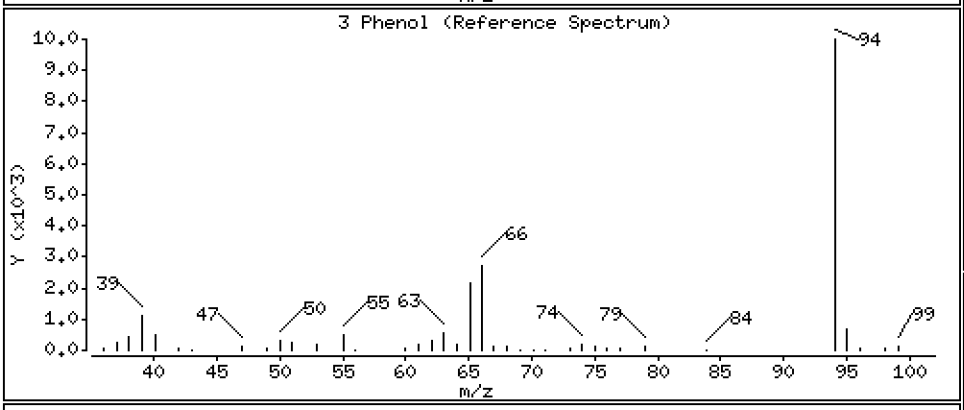
Concentration: 1.755 ug/mL

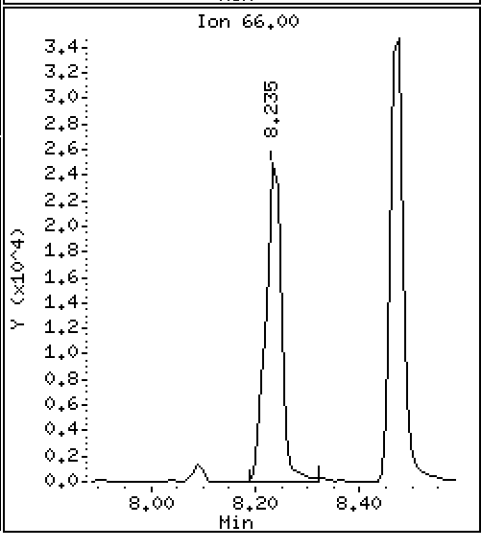


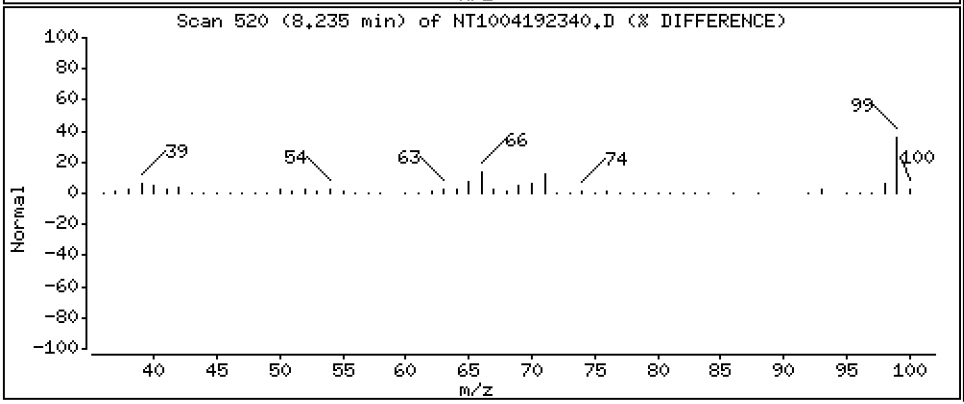












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

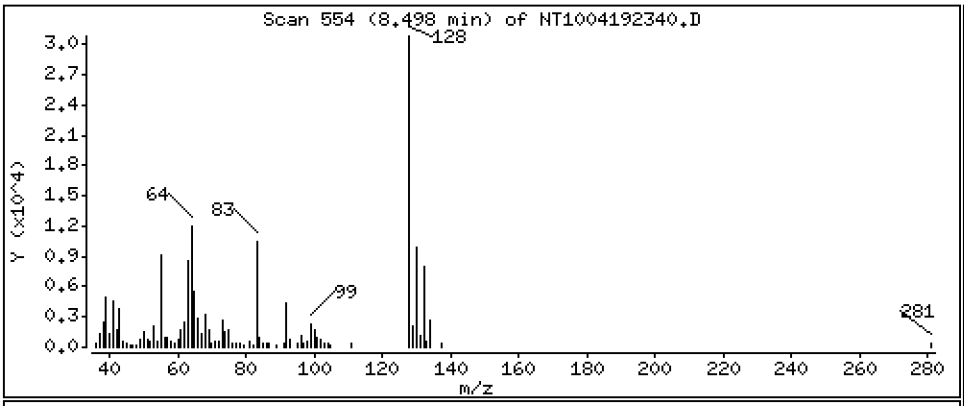
Operator: VTS

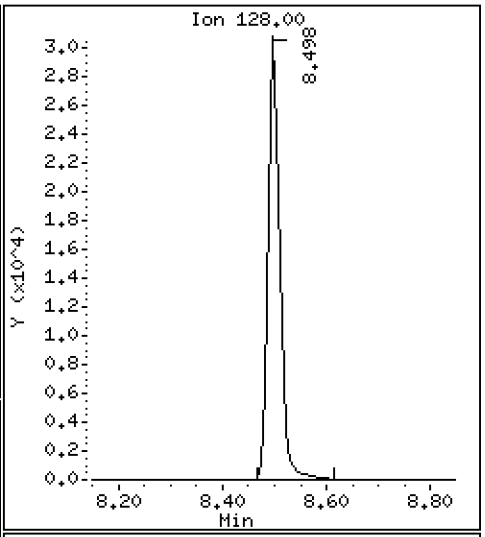
Column phase: ZB-5msi

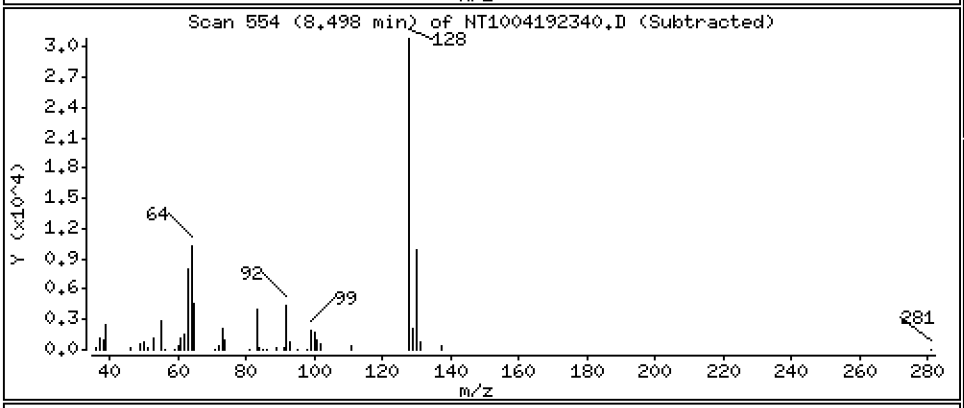
Column diameter: 0.25

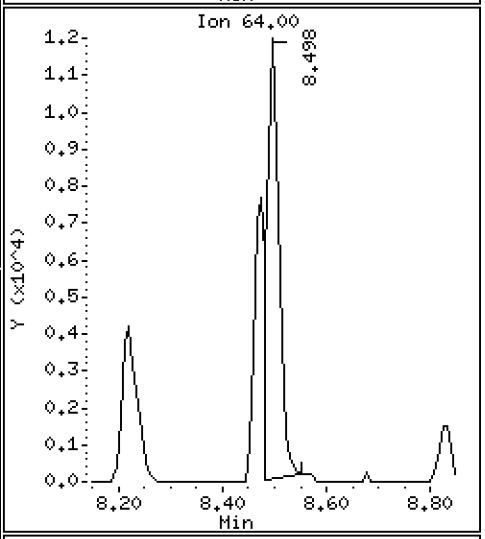
6 2-Chlorophenol

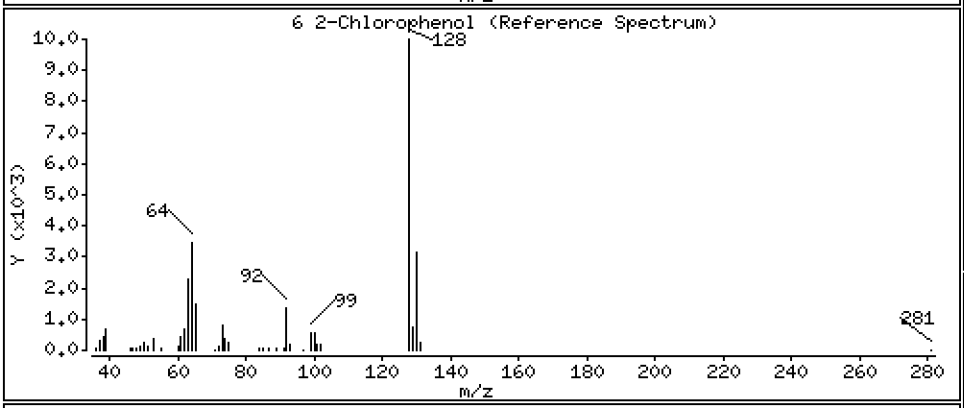
Concentration: 1.102 ug/mL

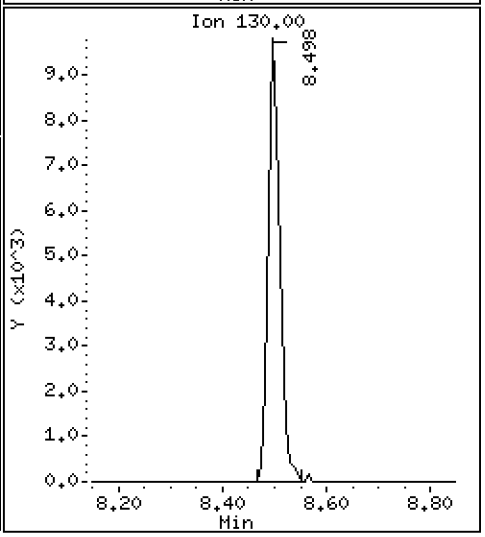


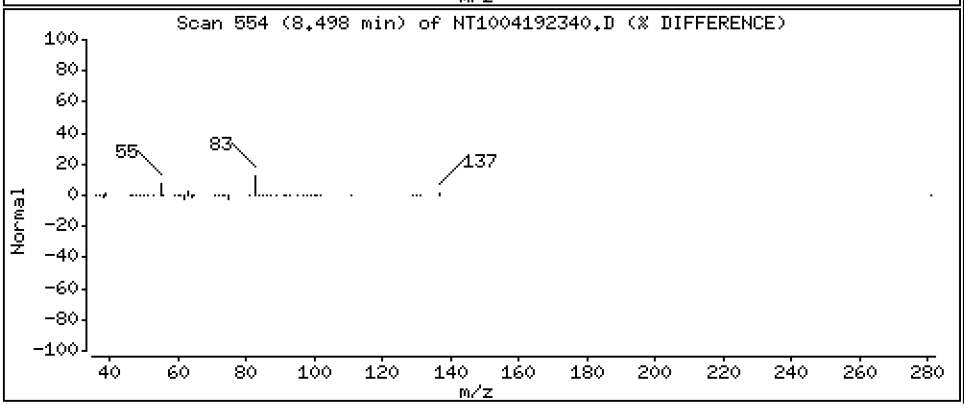












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

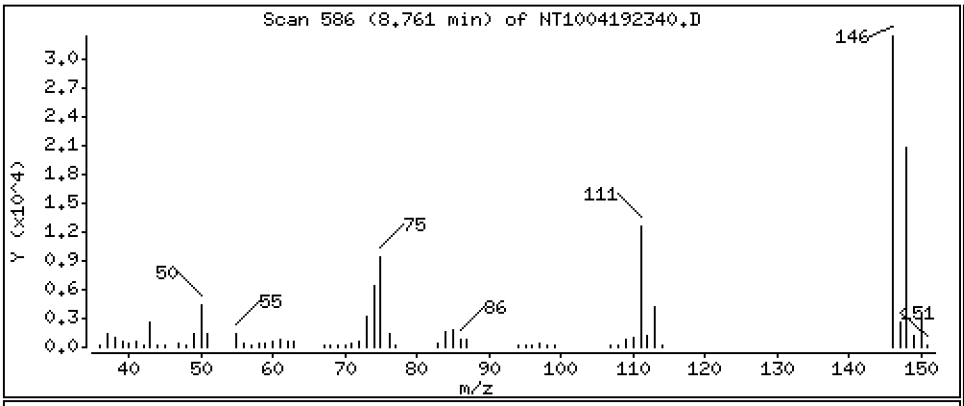
Operator: VTS

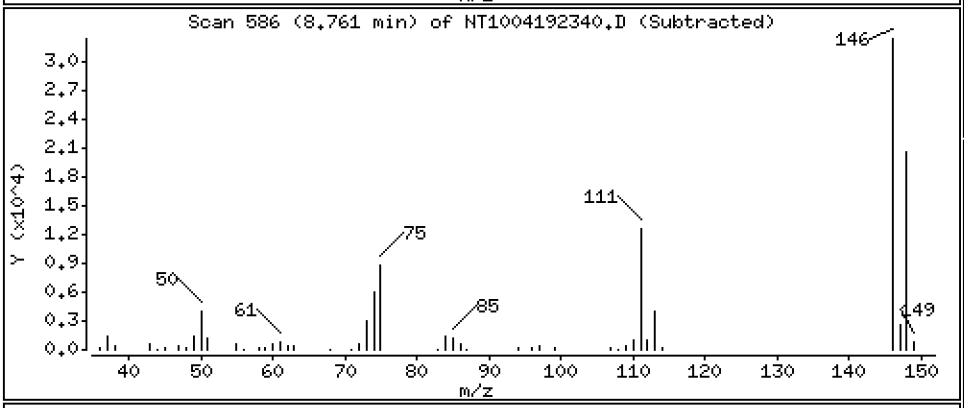
Column phase: ZB-5msi

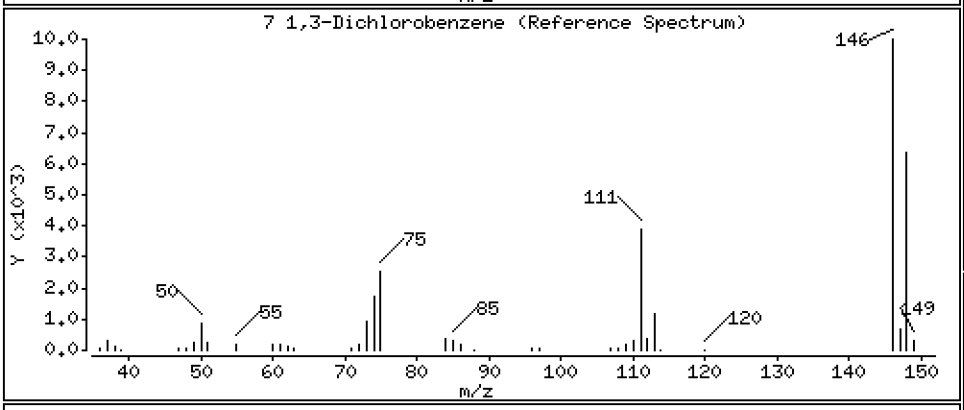
Column diameter: 0.25

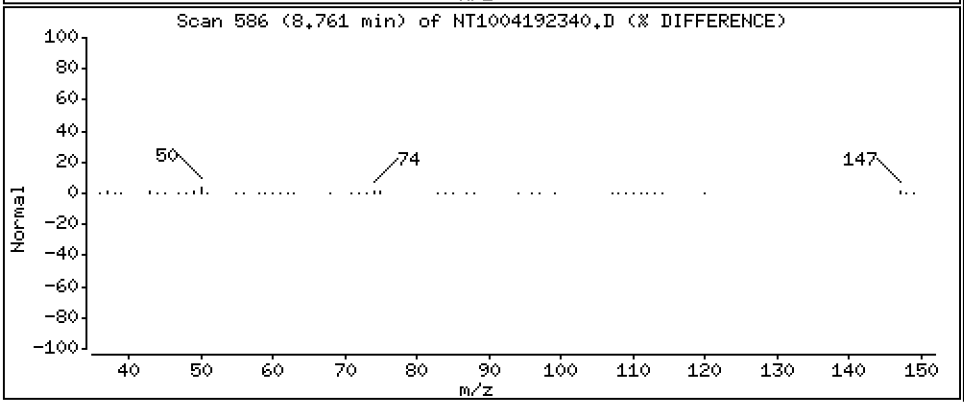
7 1,3-Dichlorobenzene

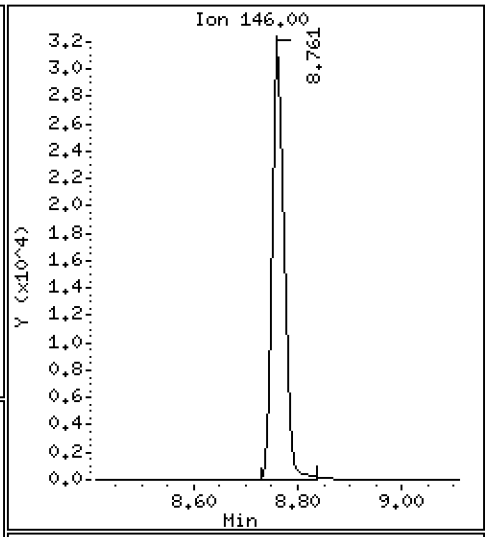
Concentration: 0.9944 ug/mL

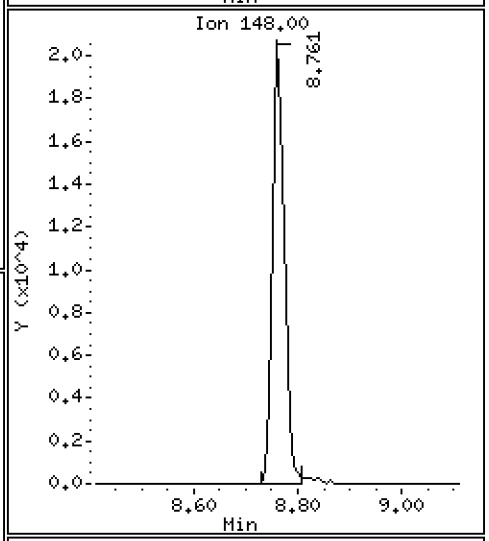


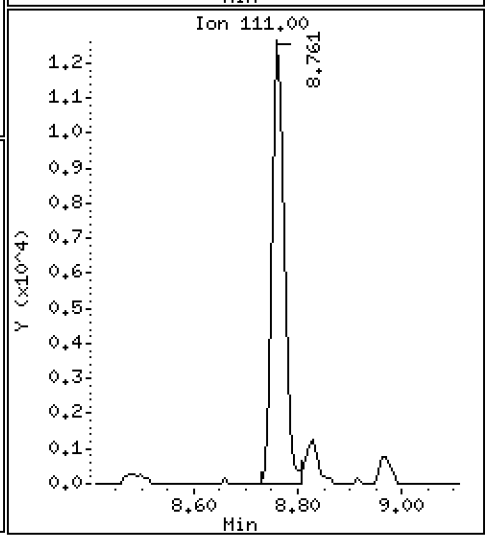












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192340.D

Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

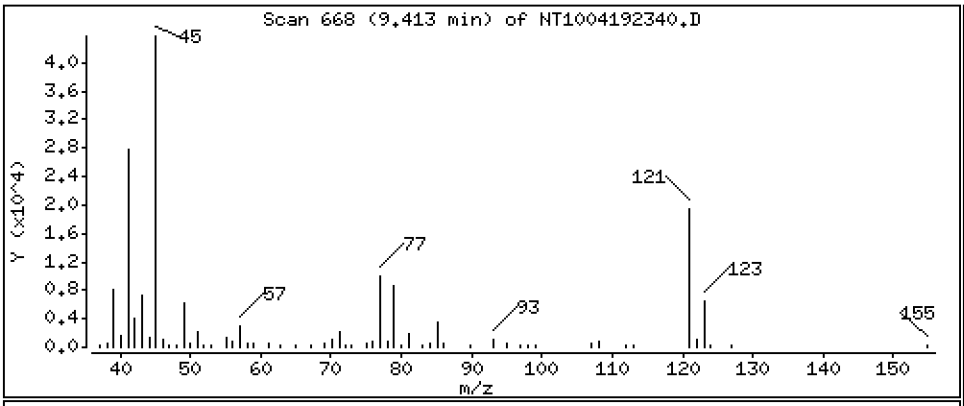
Operator: VTS

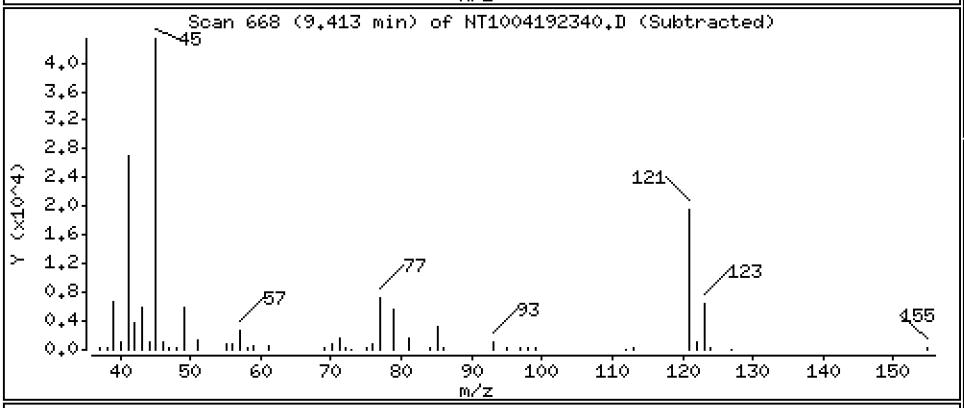
Column phase: ZB-5msi

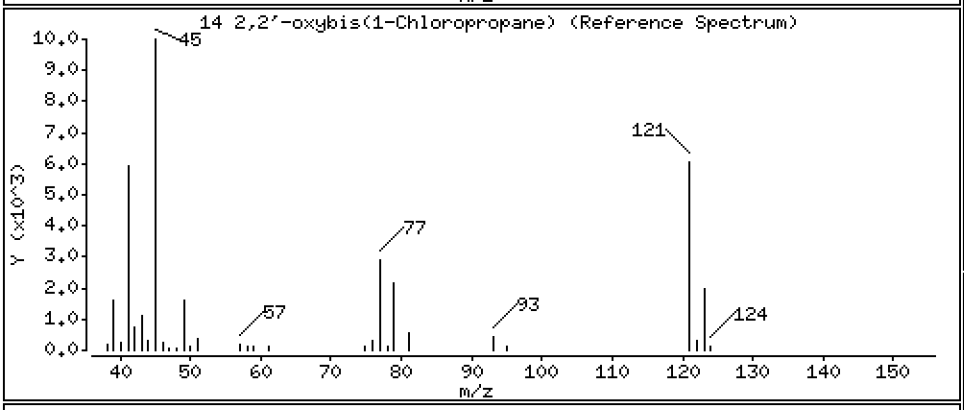
Column diameter: 0.25

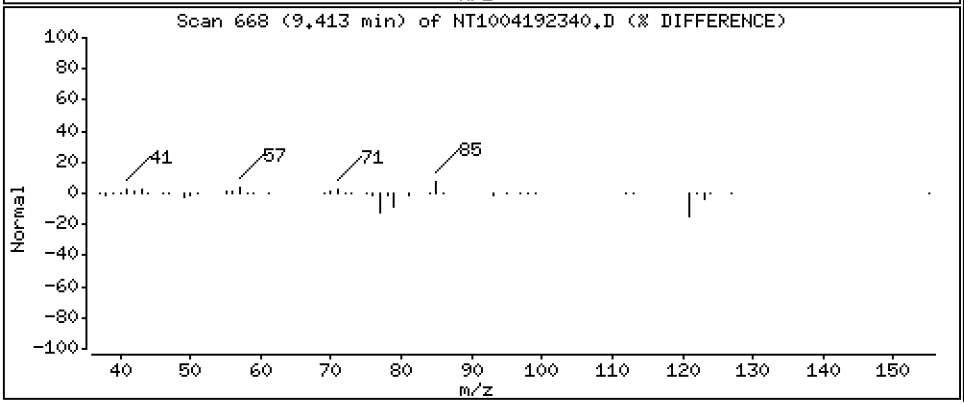
14 2,2'-oxybis(1-Chloropropane)

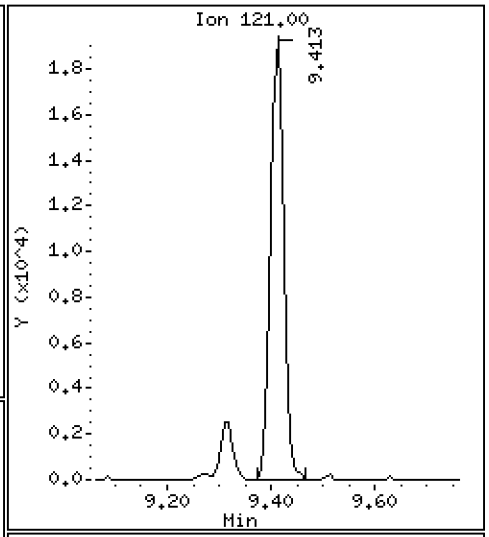
Concentration: 2.347 ug/mL

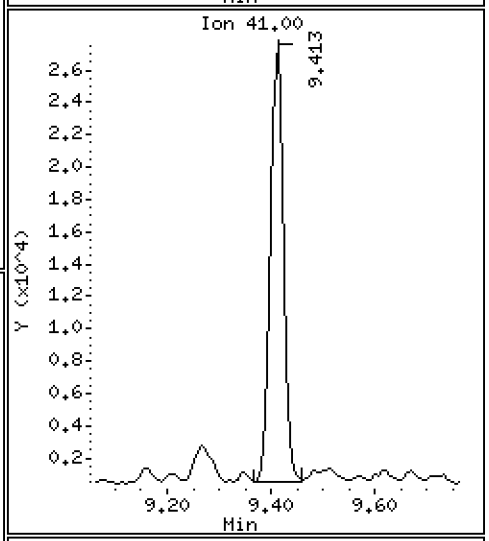


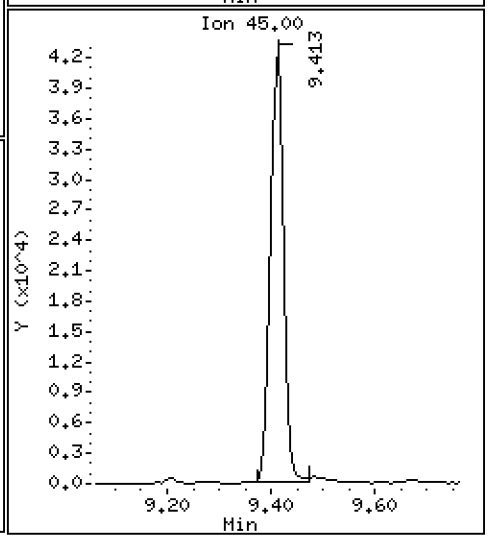












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

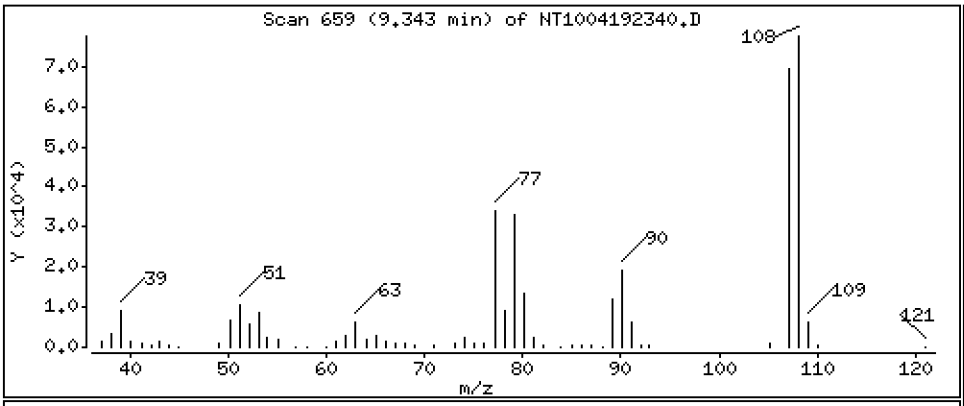
Operator: VTS

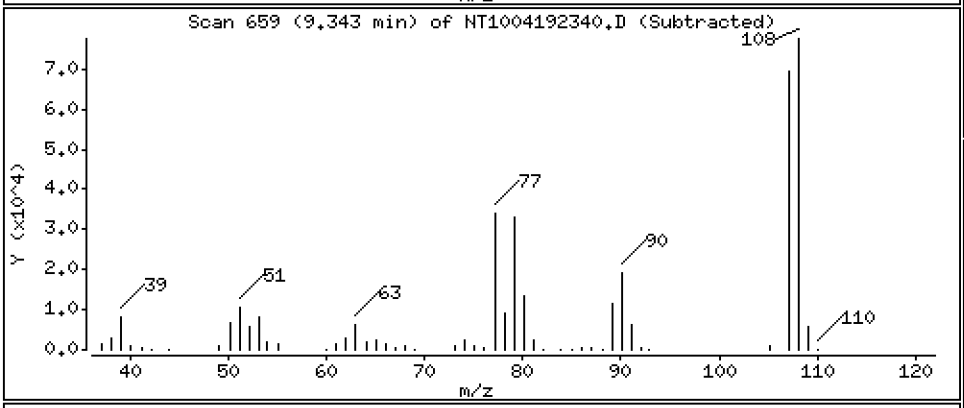
Column phase: ZB-5msi

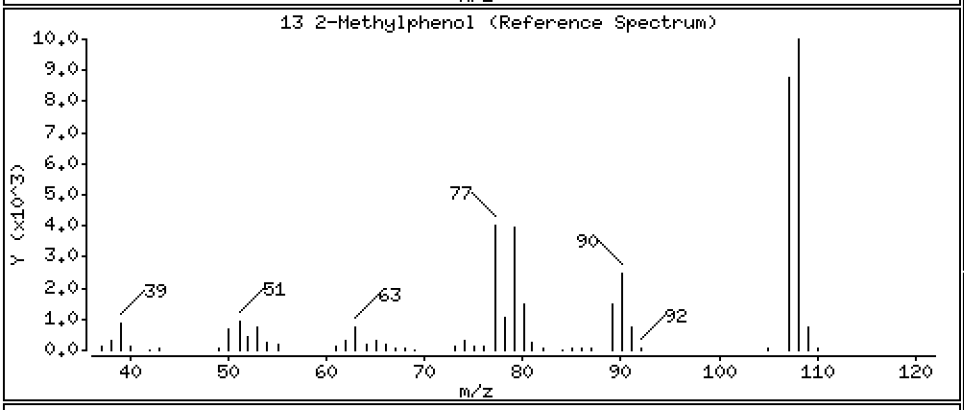
Column diameter: 0.25

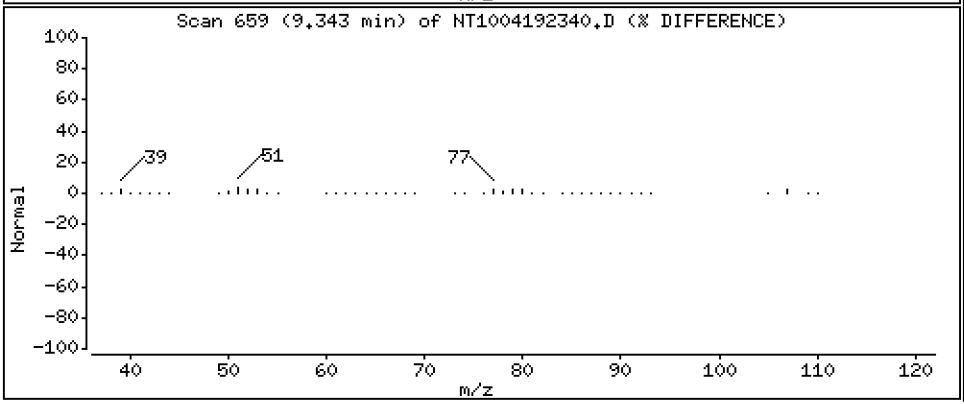
13 2-Methylphenol

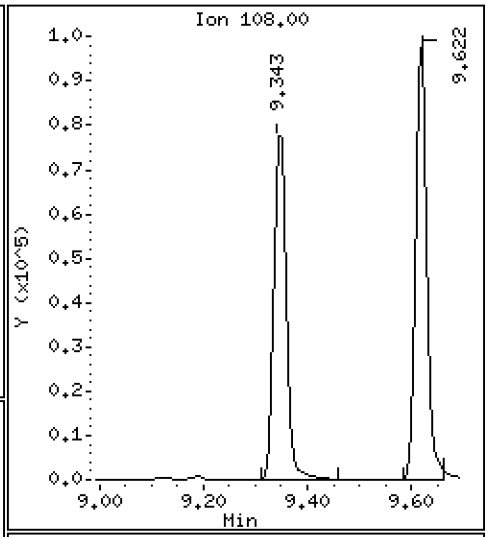
Concentration: 3.124 ug/mL

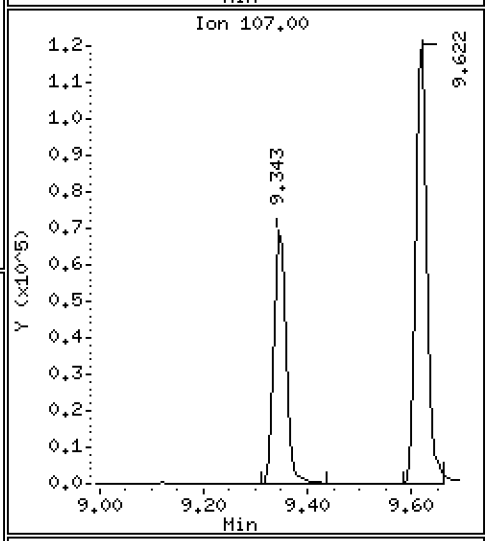


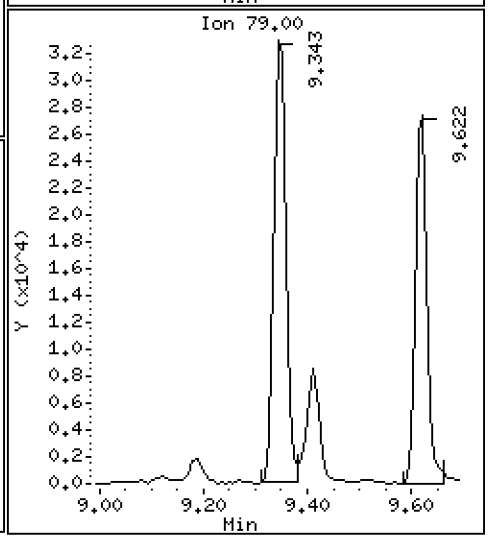












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

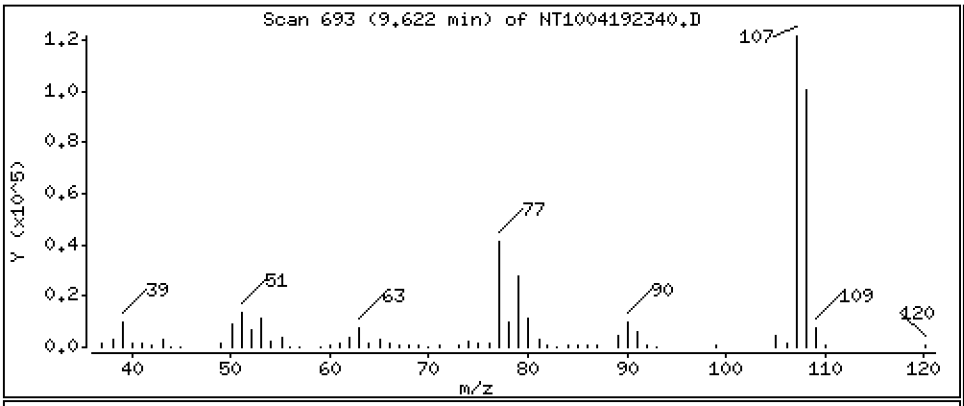
Operator: VTS

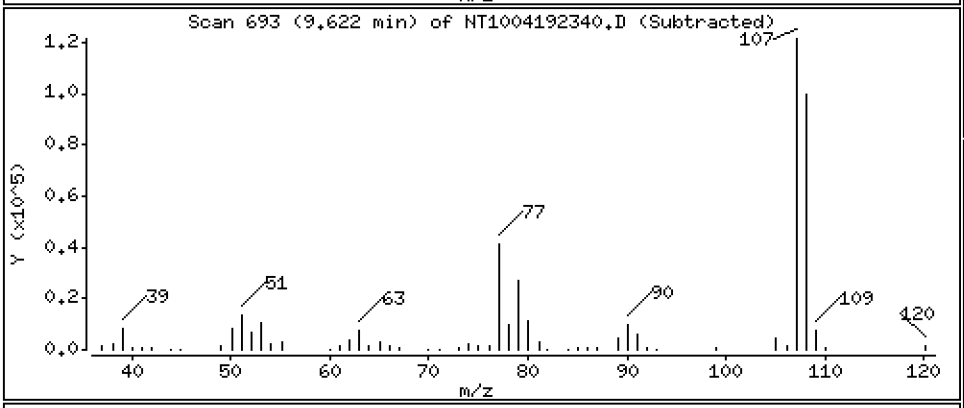
Column phase: ZB-5msi

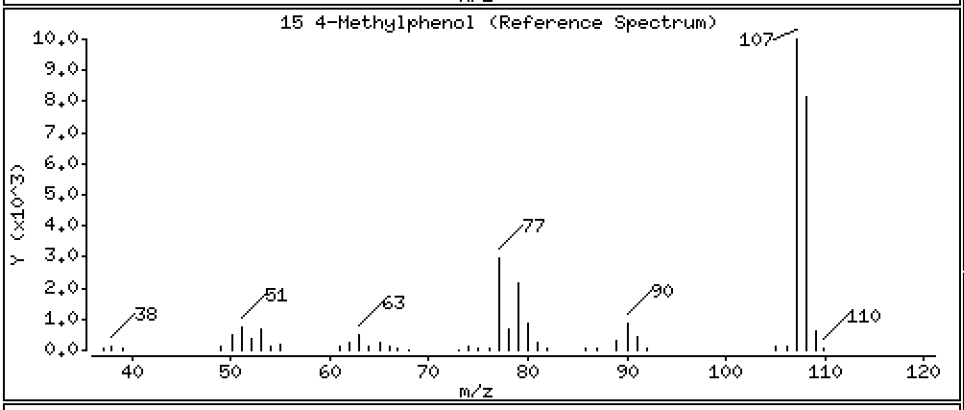
Column diameter: 0.25

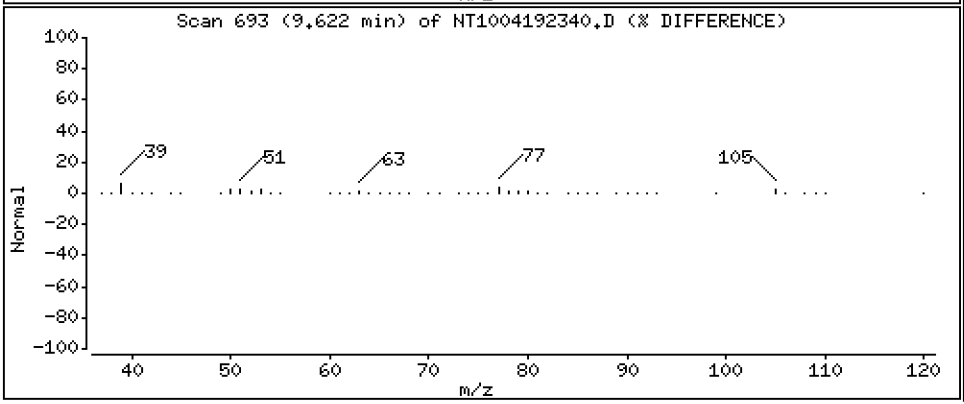
15 4-Methylphenol

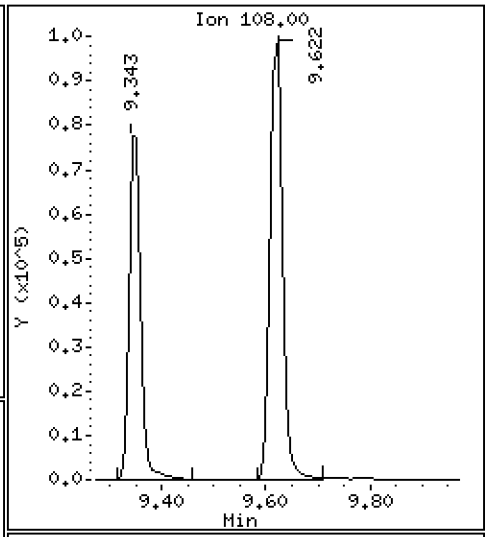
Concentration: 3.689 ug/mL

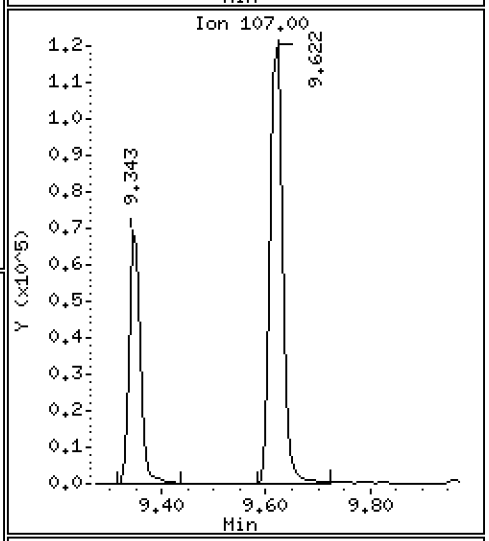


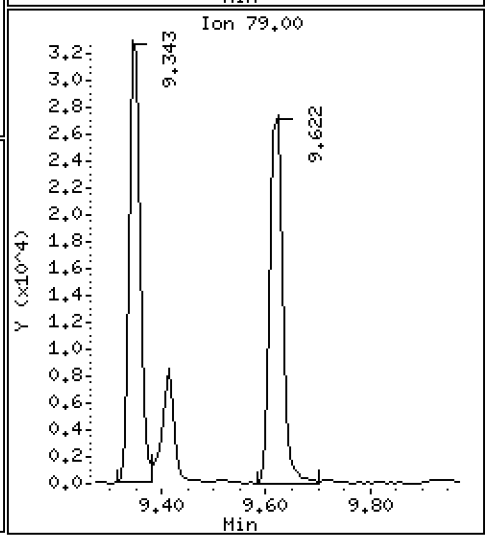












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

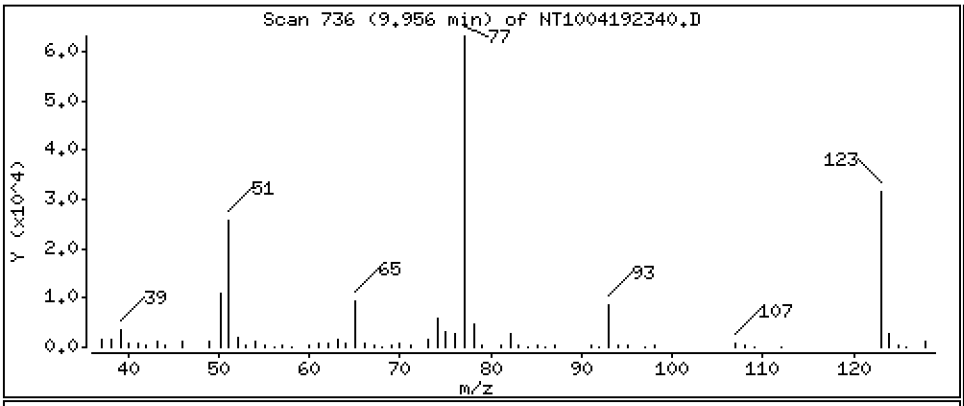
Operator: VTS

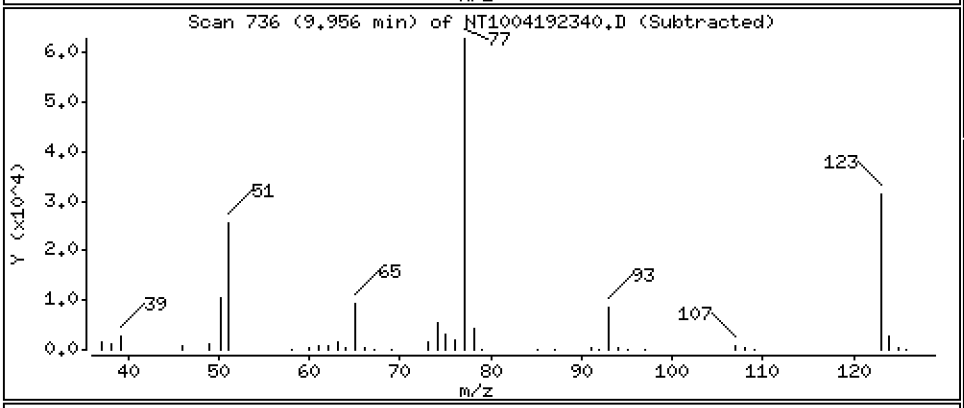
Column phase: ZB-5msi

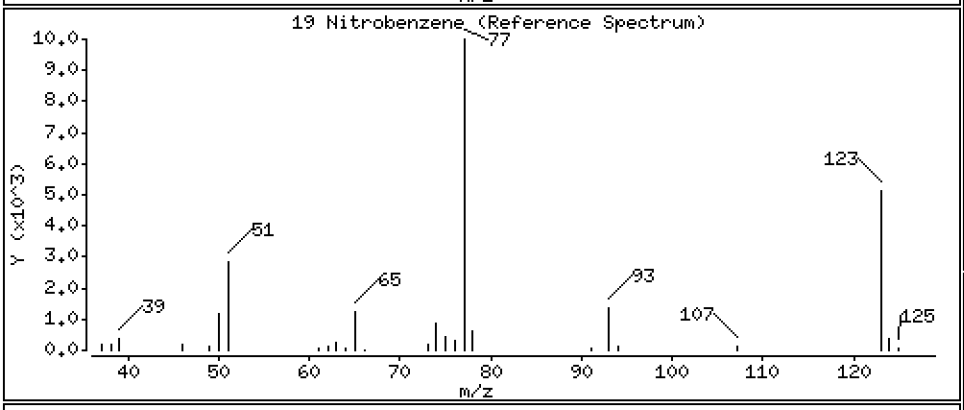
Column diameter: 0.25

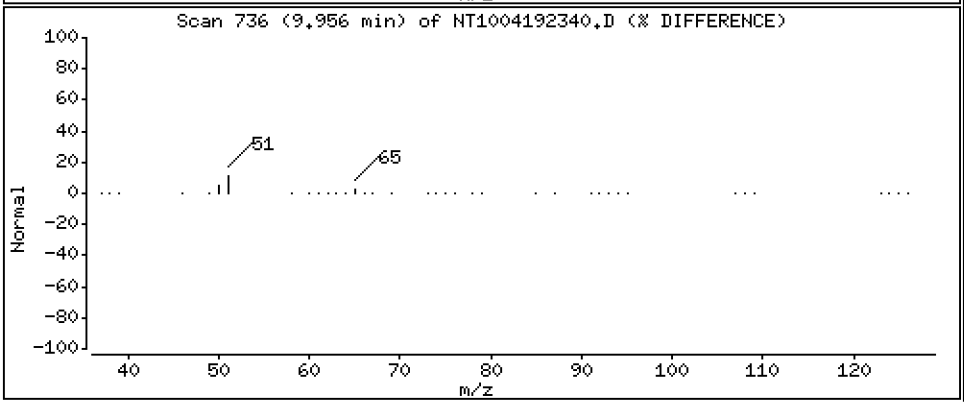
19 Nitrobenzene

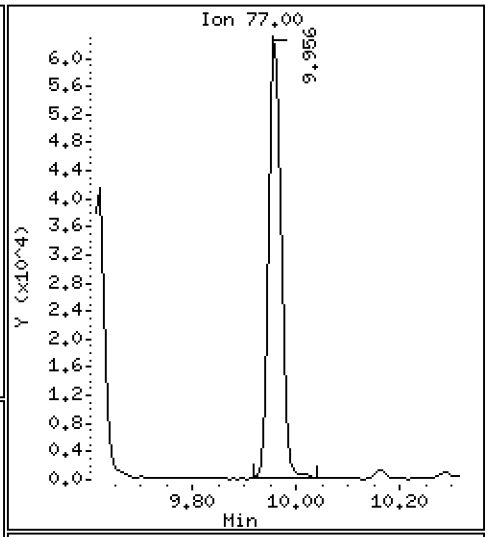
Concentration: 2.045 ug/mL

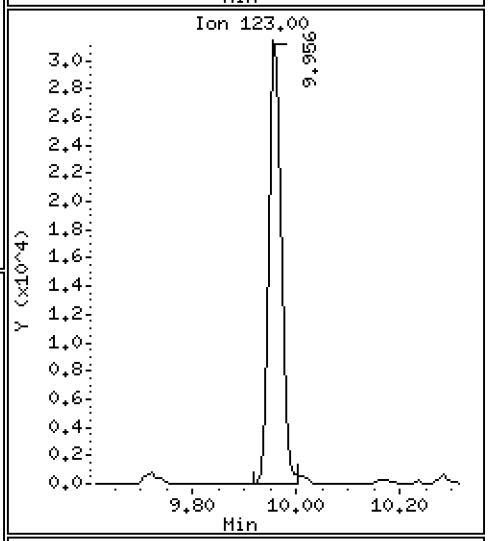


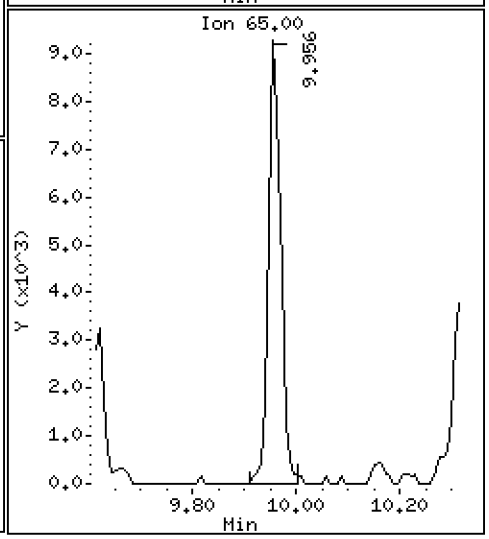












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

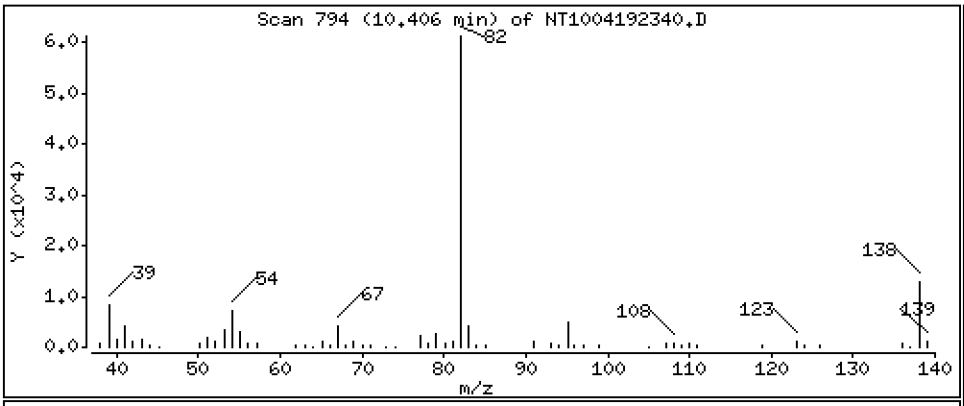
Operator: VTS

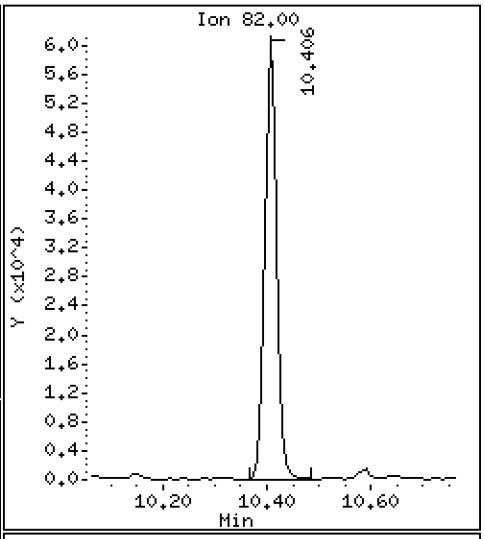
Column phase: ZB-5msi

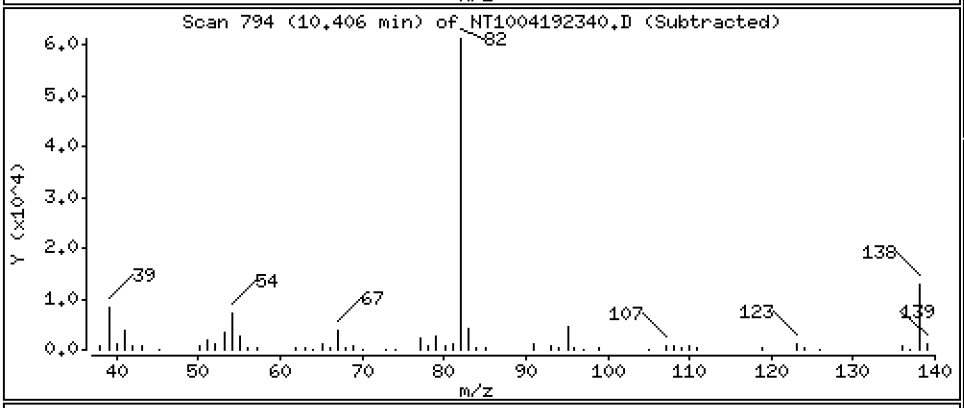
Column diameter: 0.25

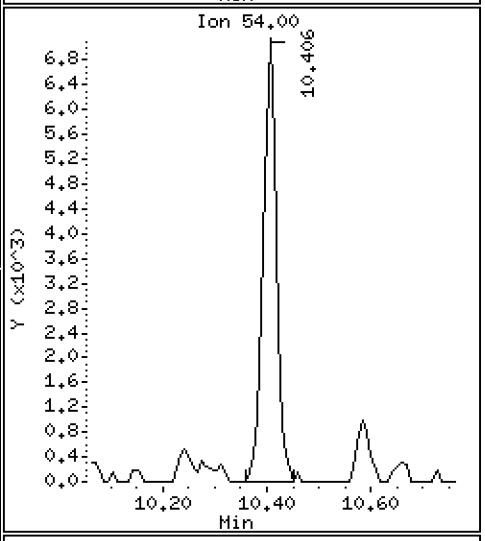
20 Isophorone

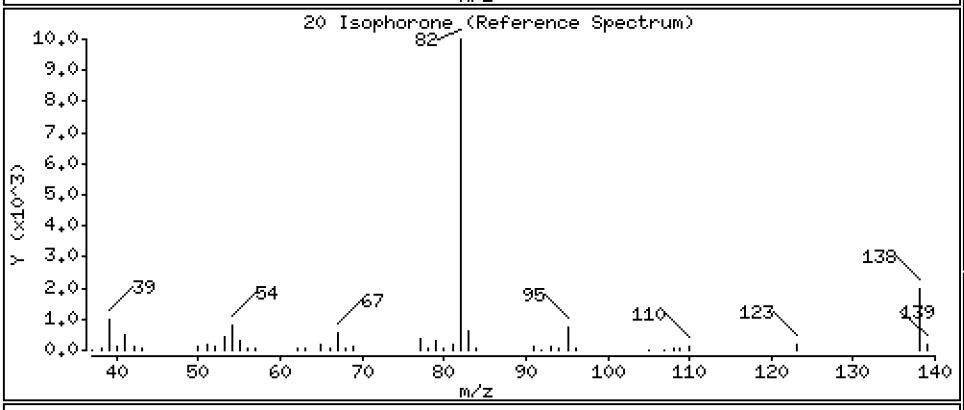
Concentration: 1.425 ug/mL

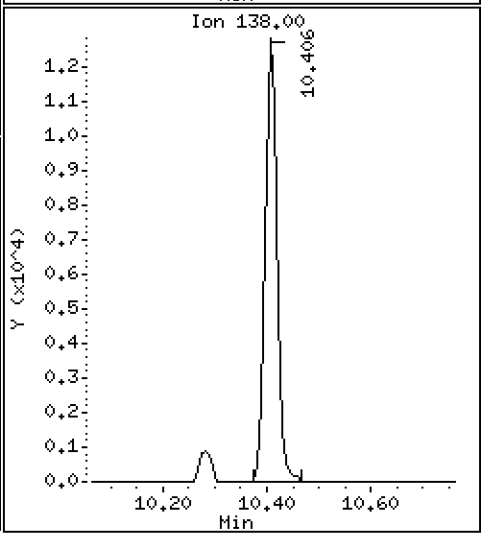


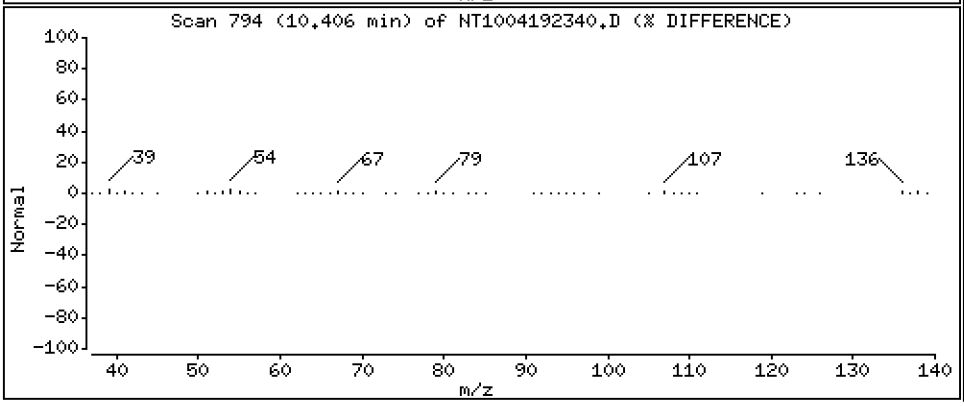












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

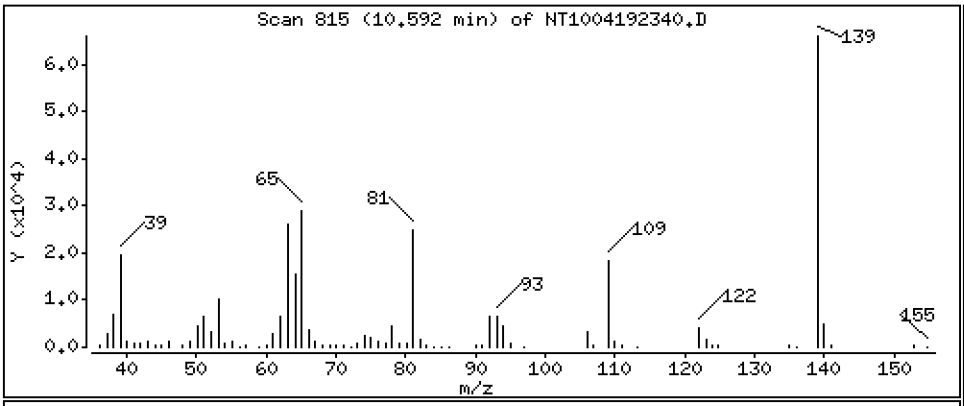
Operator: VTS

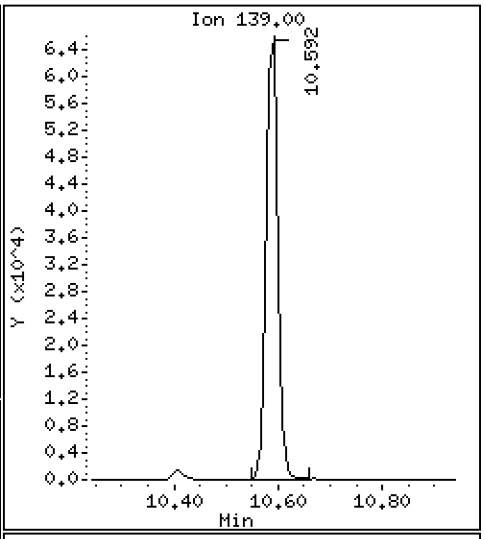
Column phase: ZB-5msi

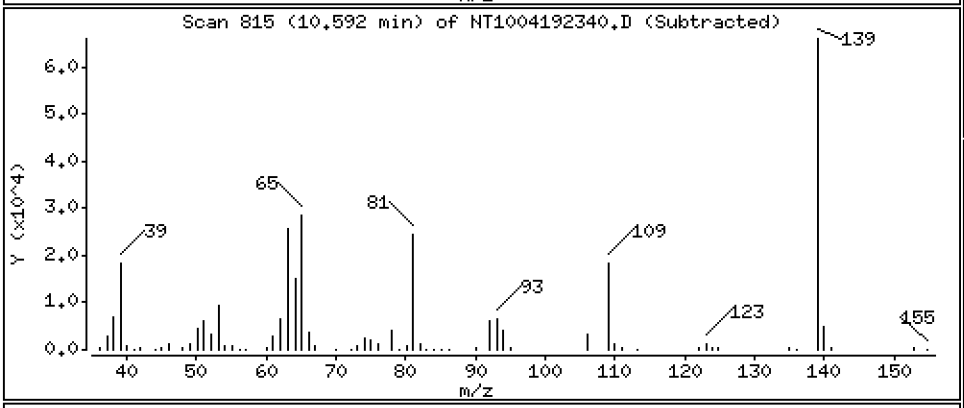
Column diameter: 0.25

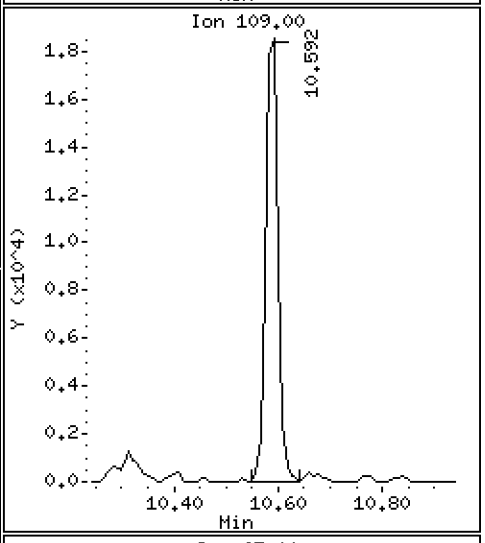
21 2-Nitrophenol

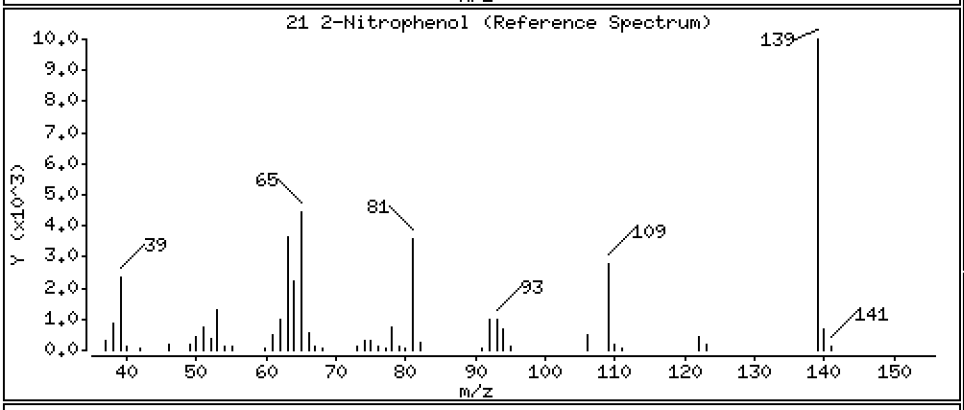
Concentration: 4.263 ug/mL

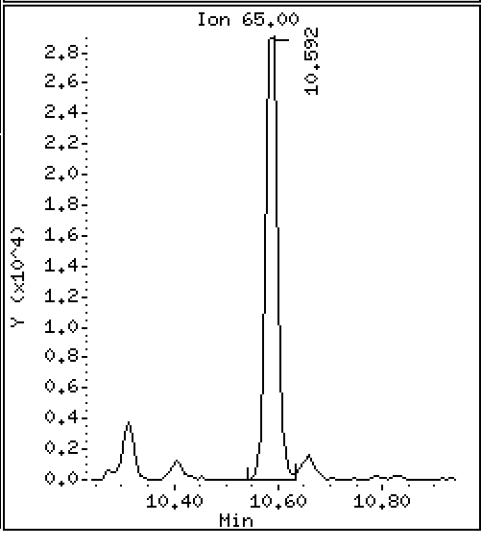


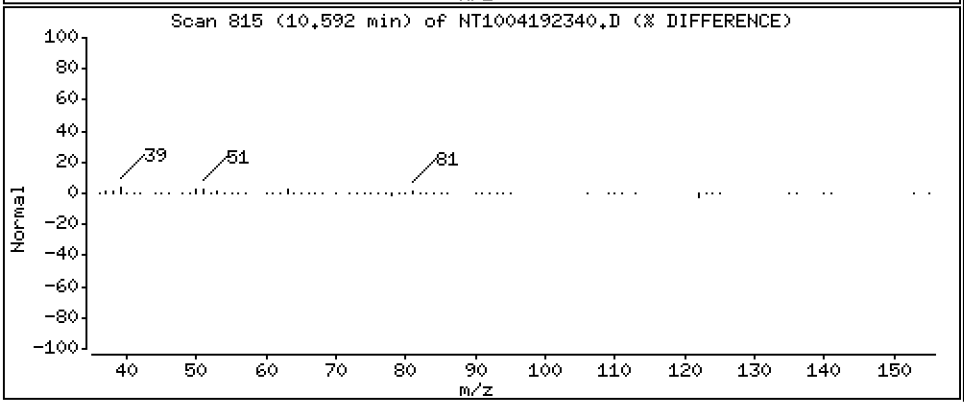












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

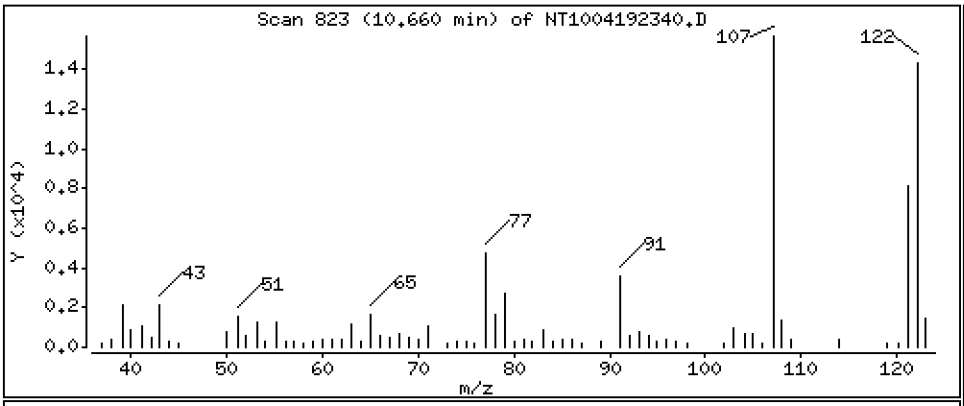
Operator: VTS

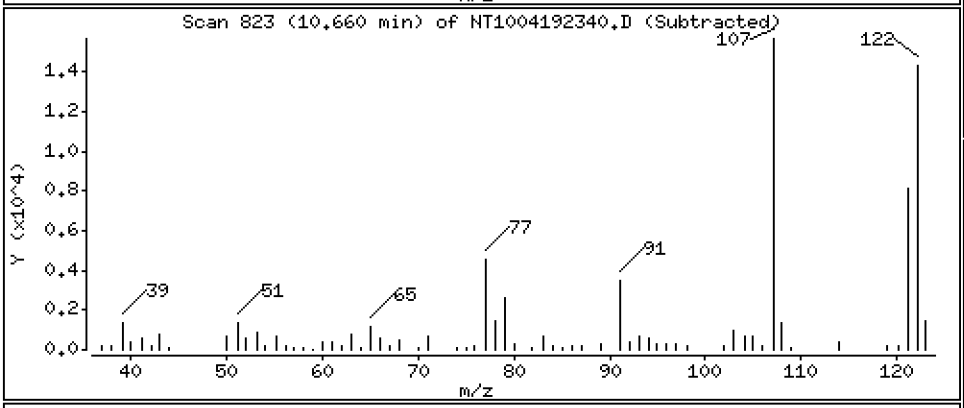
Column phase: ZB-5msi

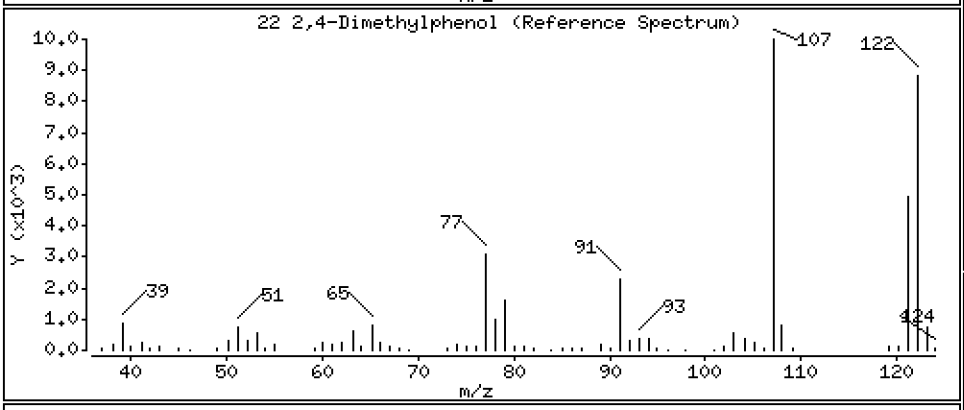
Column diameter: 0.25

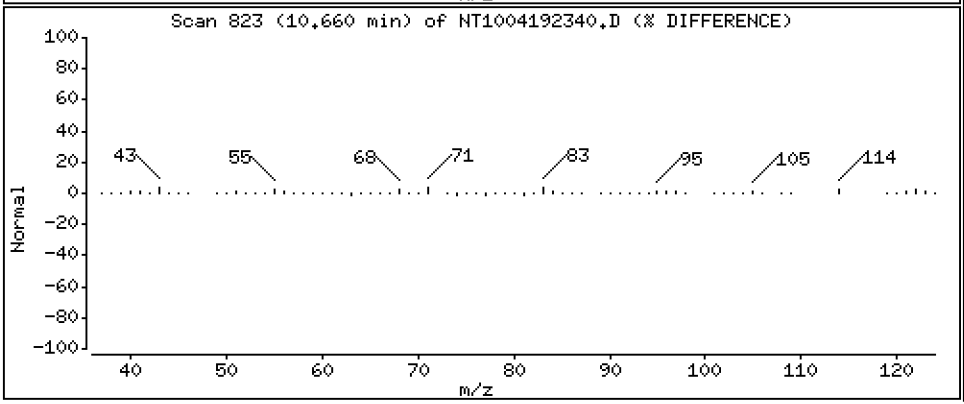
22 2,4-Dimethylphenol

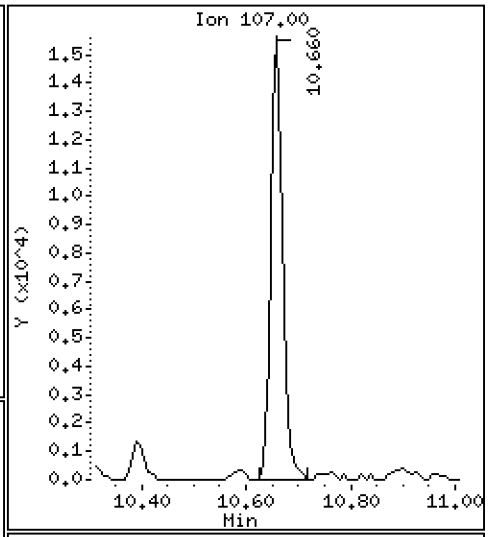
Concentration: 0.5418 ug/mL

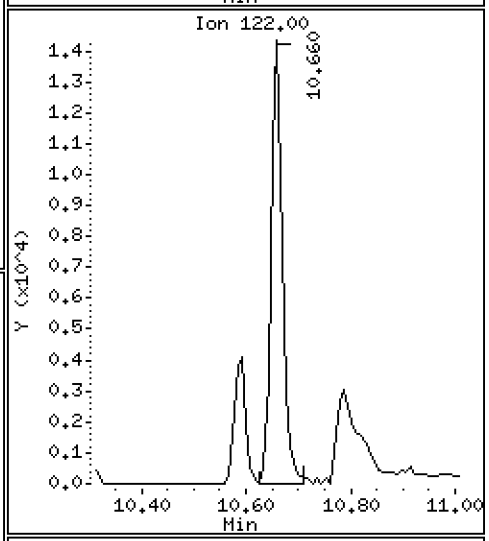


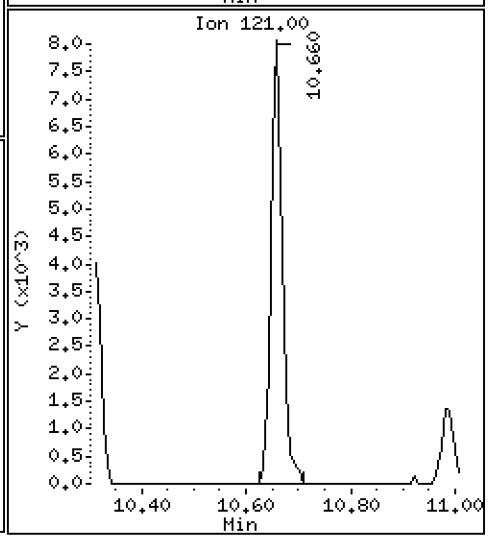












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

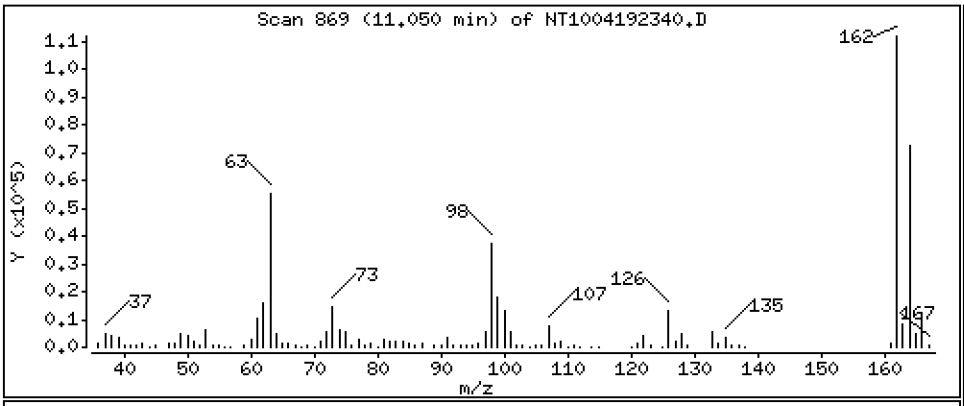
Operator: VTS

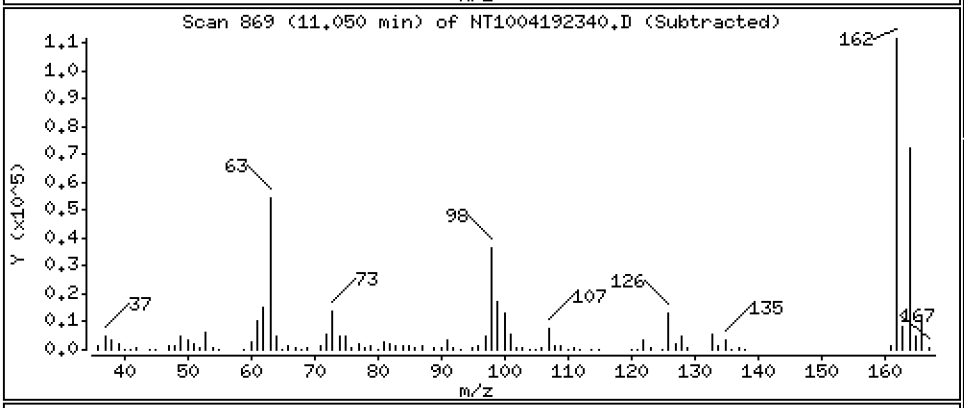
Column phase: ZB-5msi

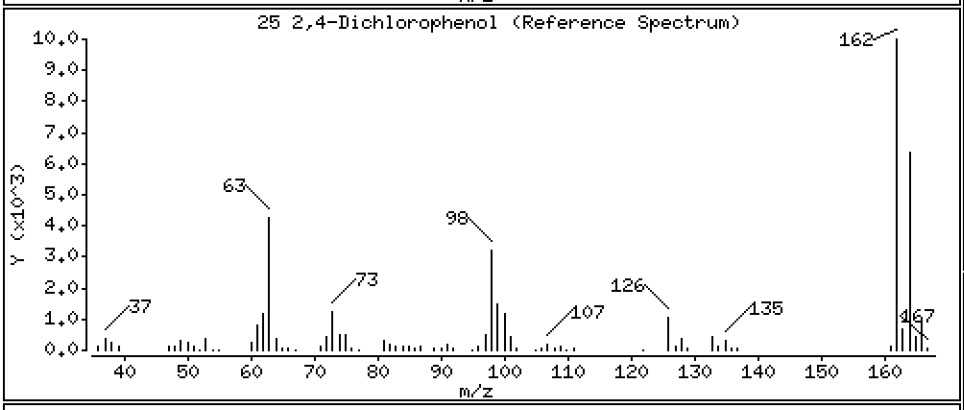
Column diameter: 0.25

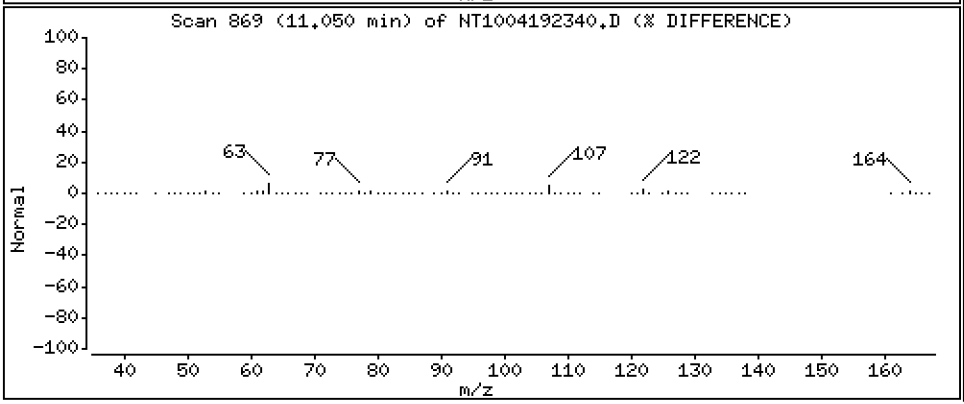
25 2,4-Dichlorophenol

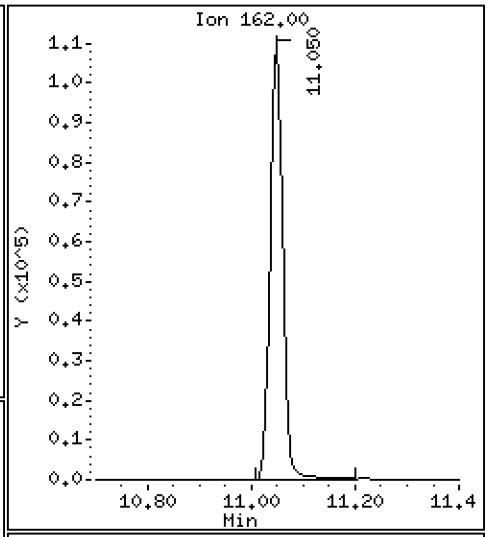
Concentration: 5.474 ug/mL

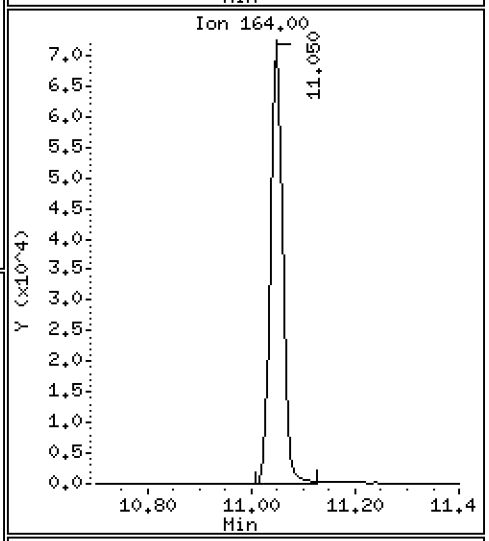


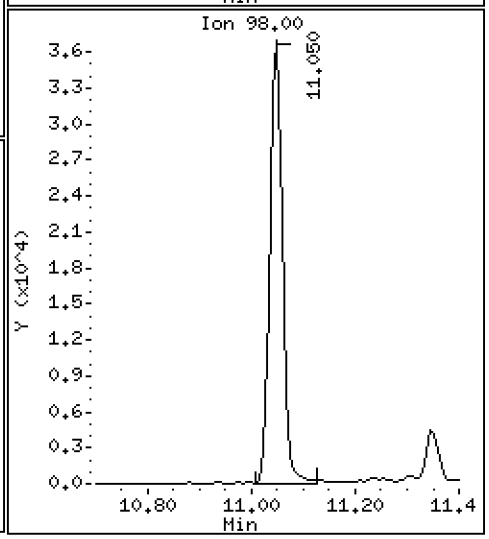












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

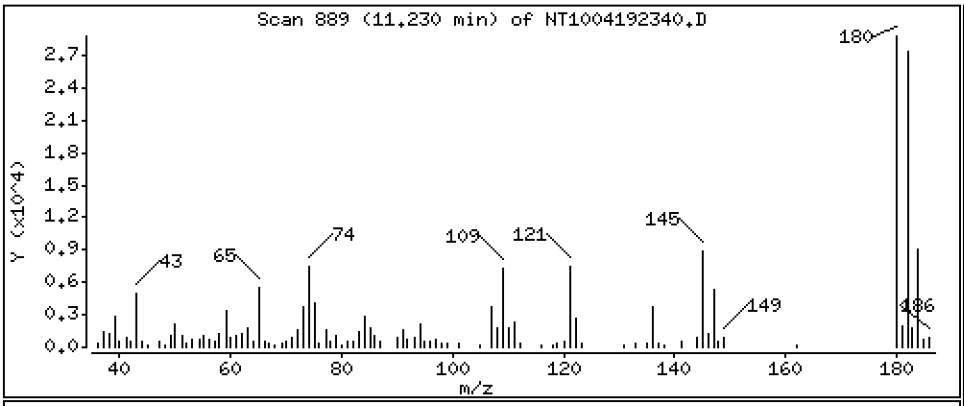
Operator: VTS

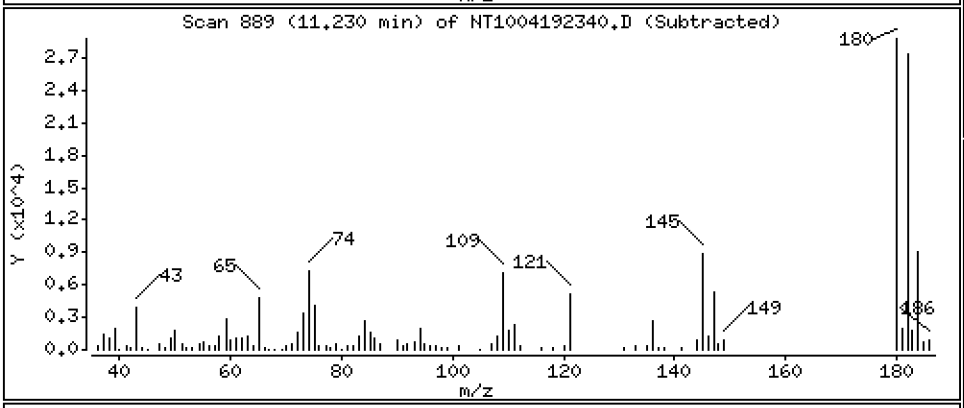
Column phase: ZB-5msi

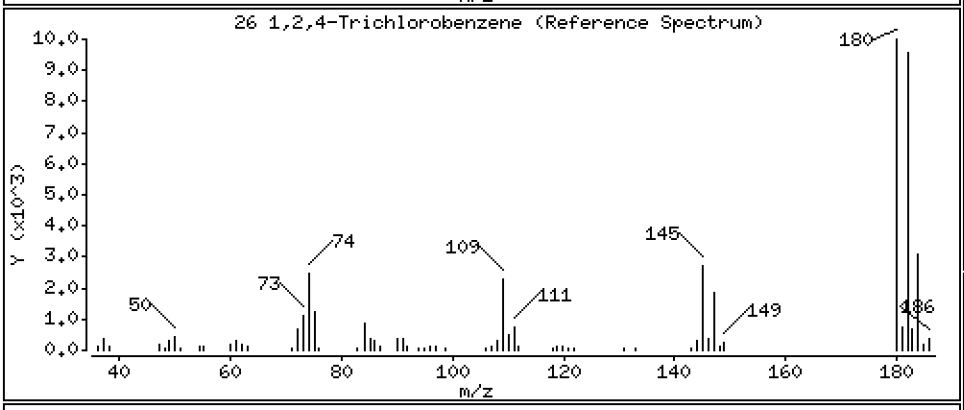
Column diameter: 0.25

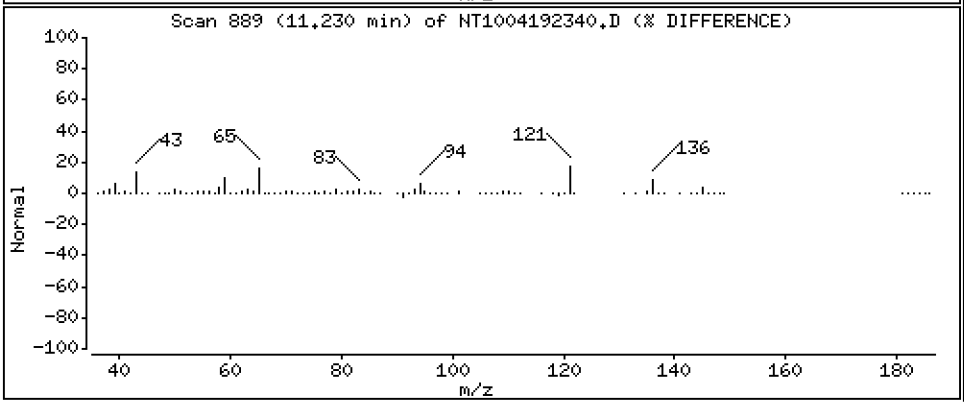
26 1,2,4-Trichlorobenzene

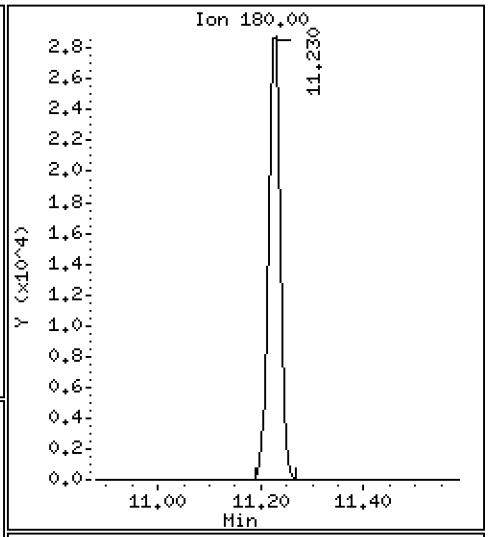
Concentration: 1.112 ug/mL

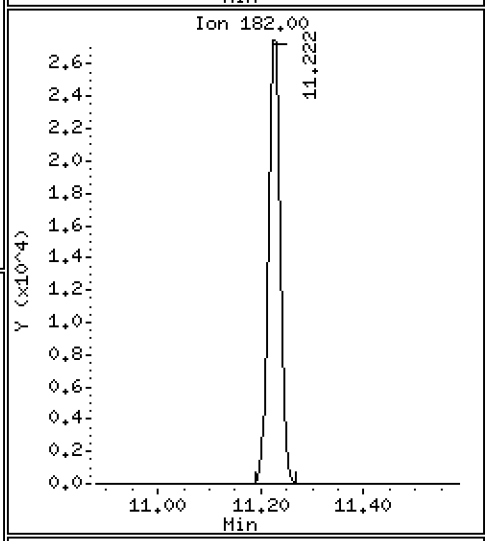


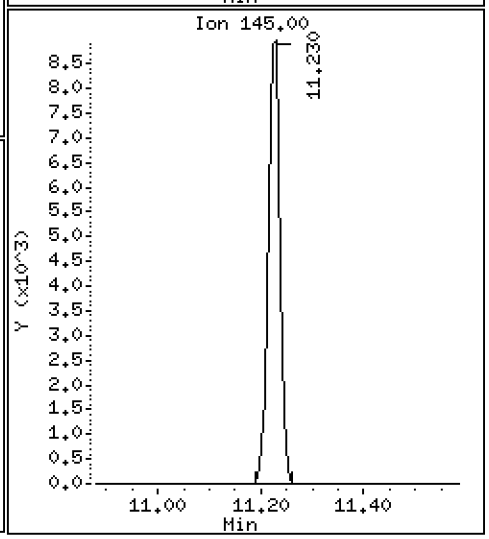












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

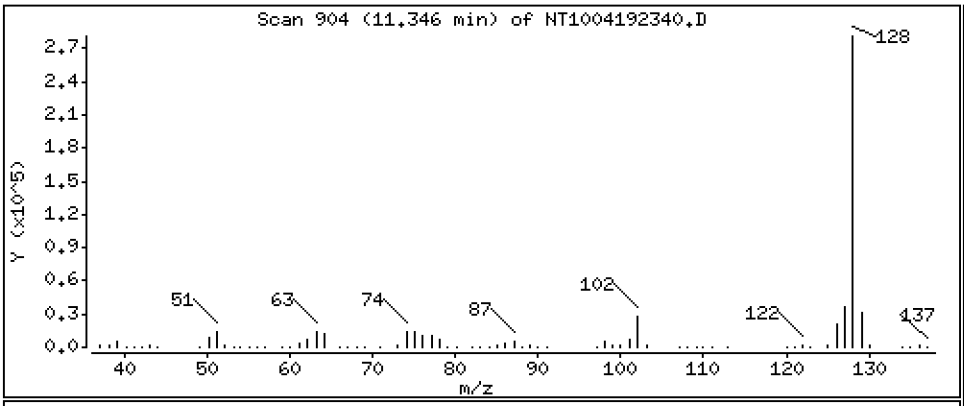
Operator: VTS

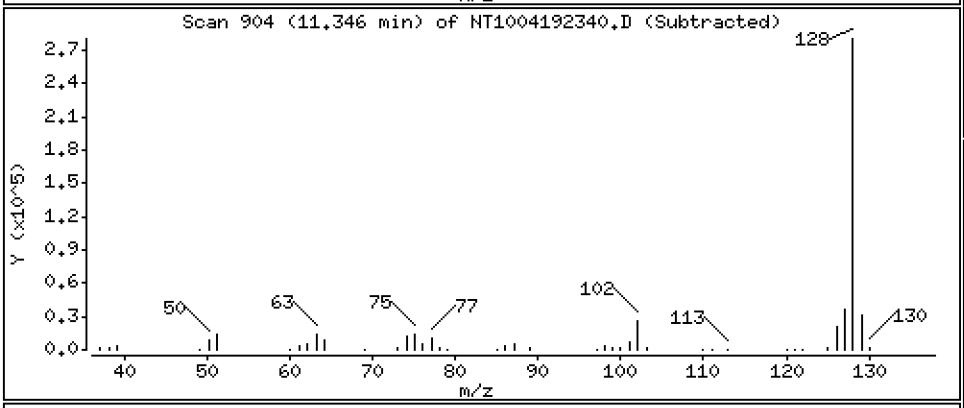
Column phase: ZB-5msi

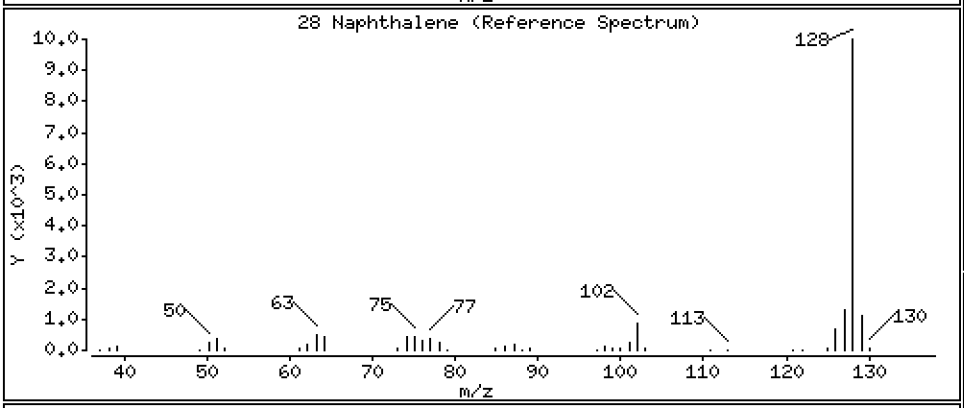
Column diameter: 0.25

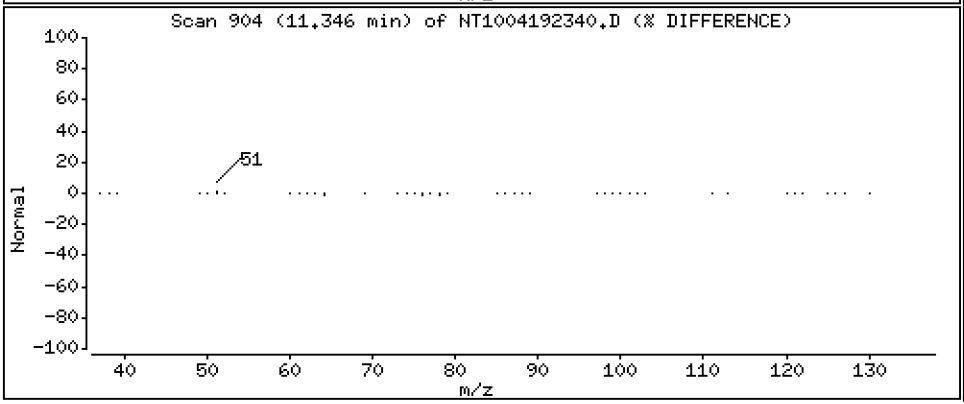
28 Naphthalene

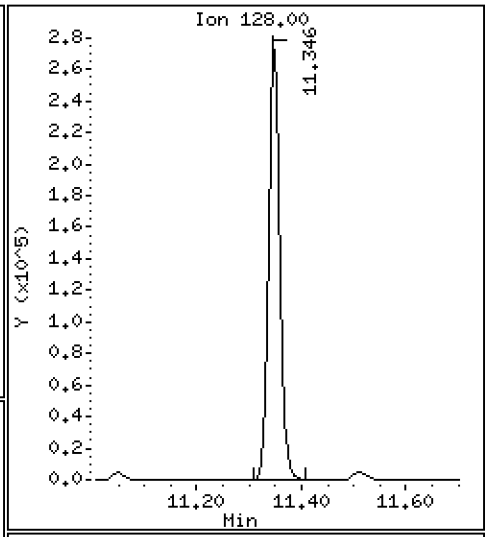
Concentration: 3.207 ug/mL

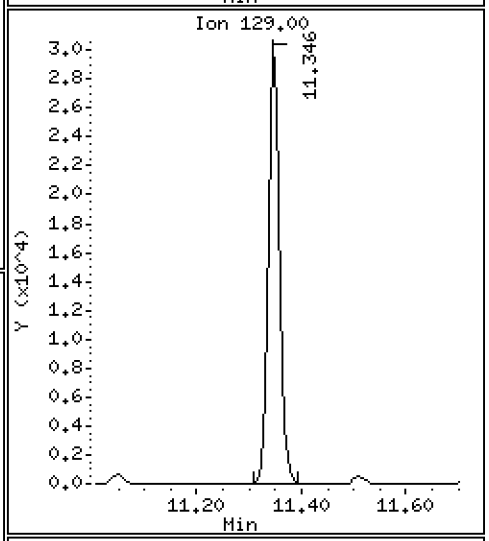


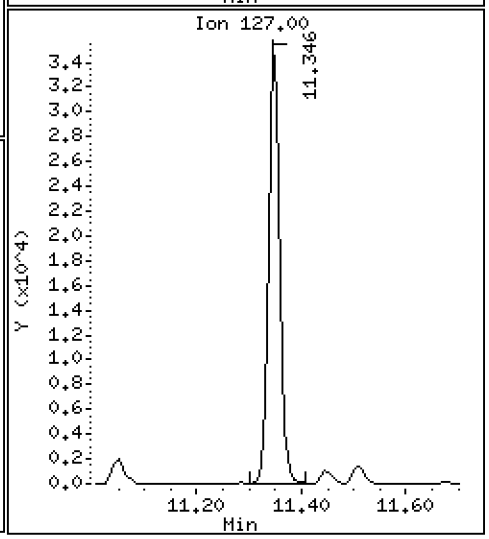












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

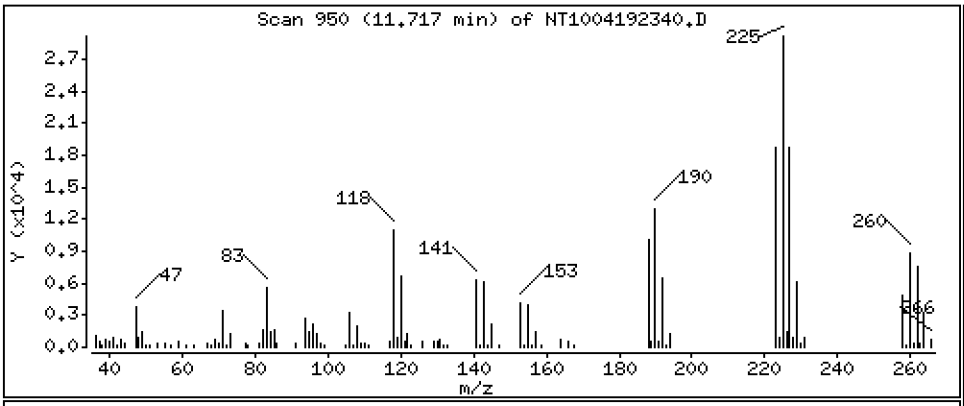
Operator: VTS

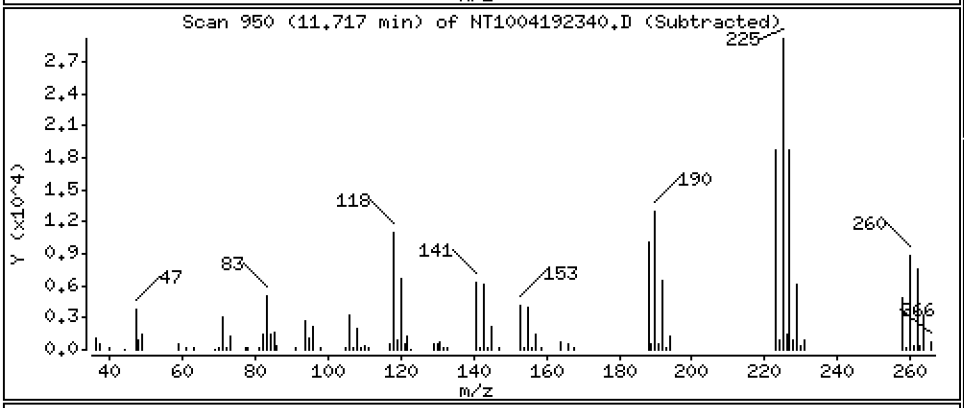
Column phase: ZB-5msi

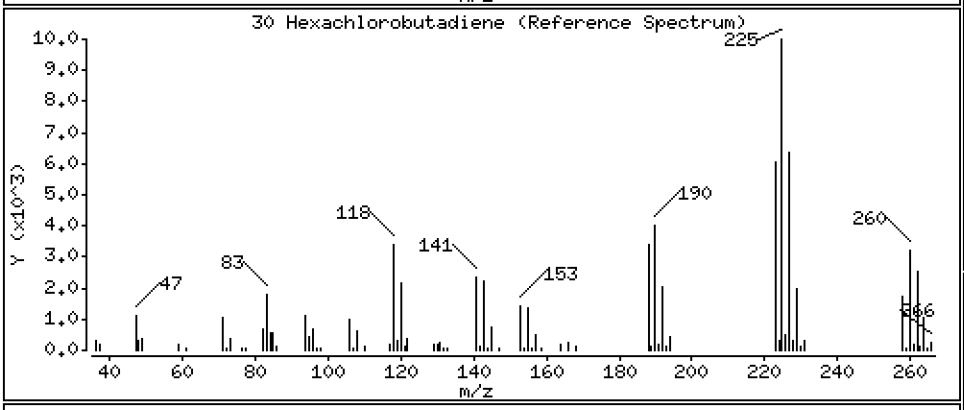
Column diameter: 0.25

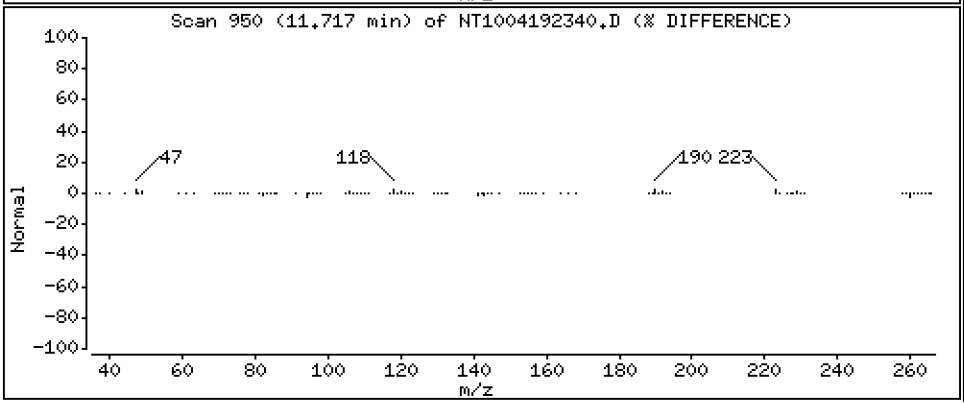
30 Hexachlorobutadiene

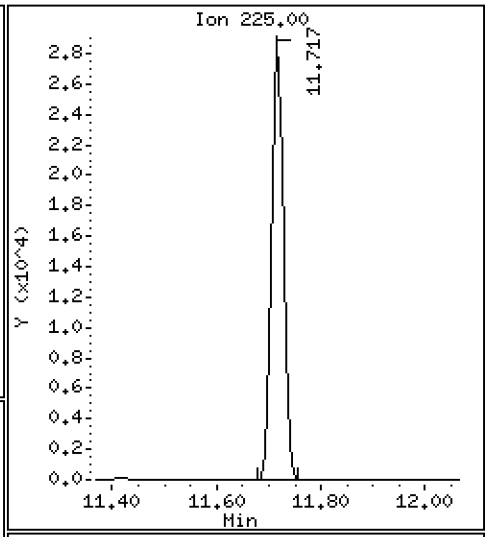
Concentration: 1.709 ug/mL

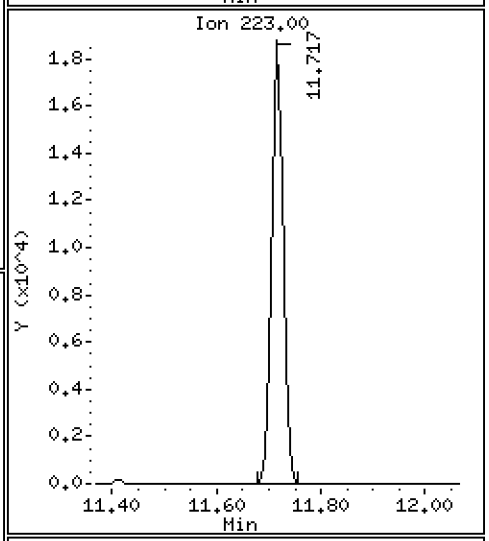


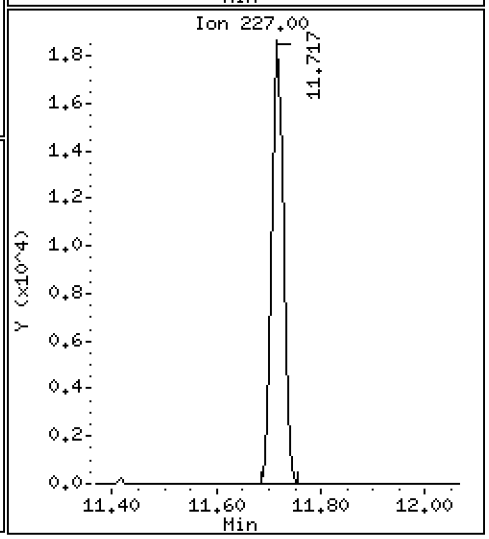












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

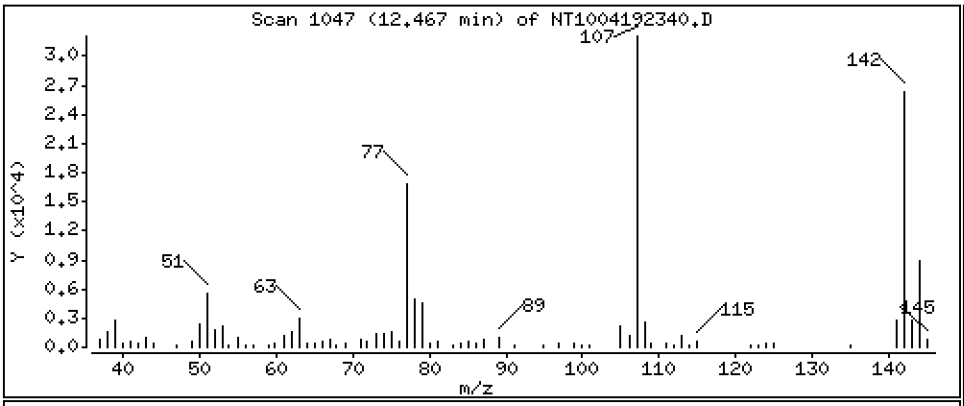
Operator: VTS

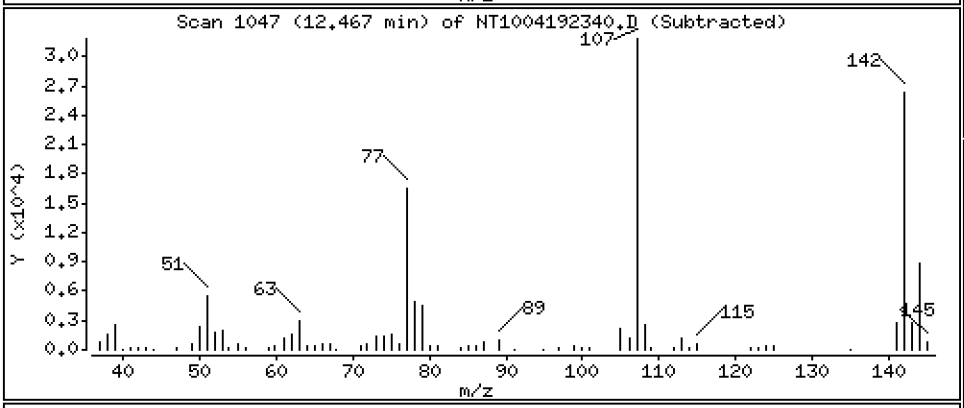
Column phase: ZB-5msi

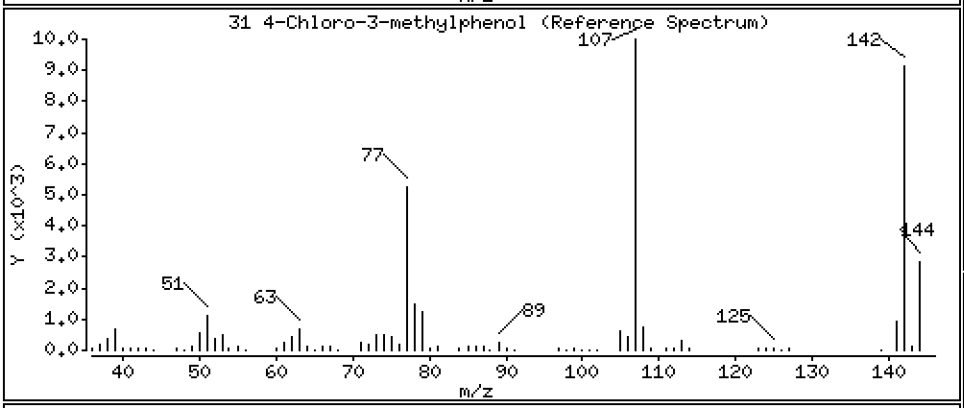
Column diameter: 0.25

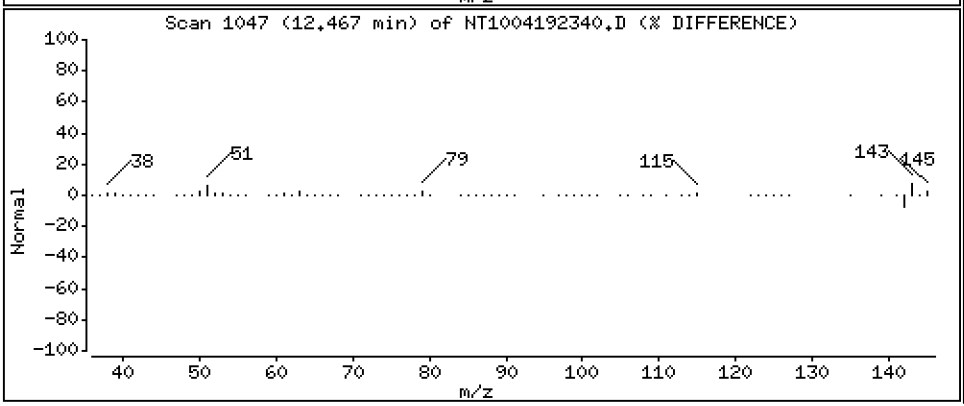
31 4-Chloro-3-methylphenol

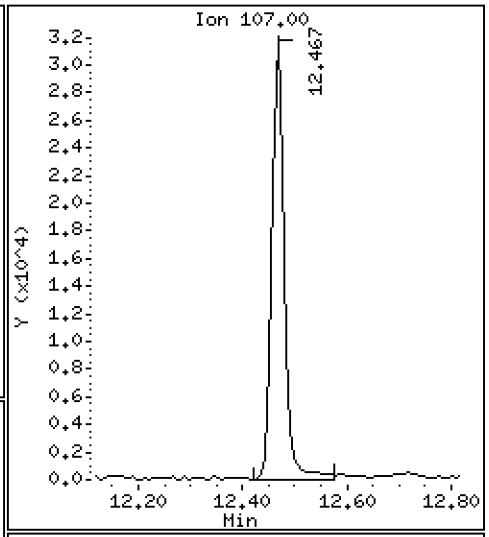
Concentration: 1.268 ug/mL

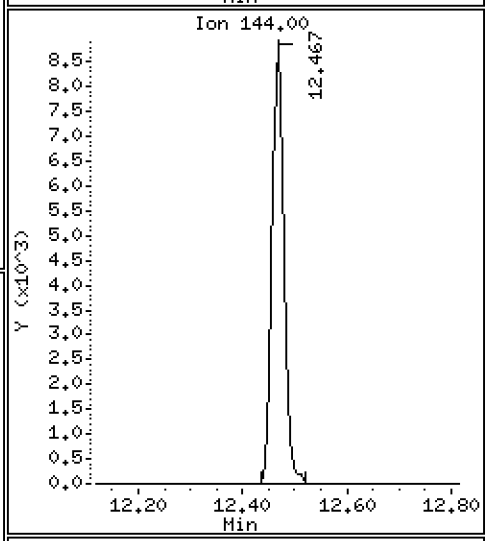


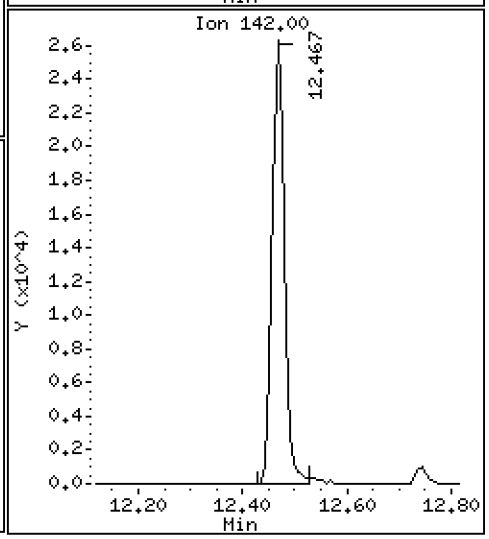












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

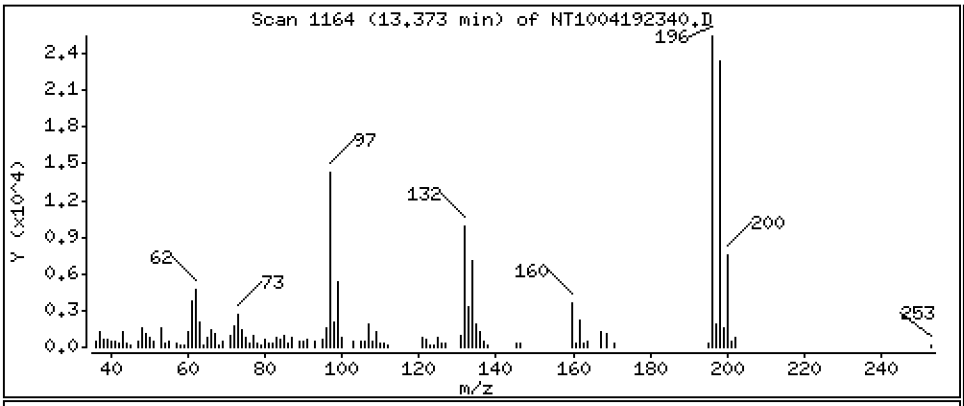
Operator: VTS

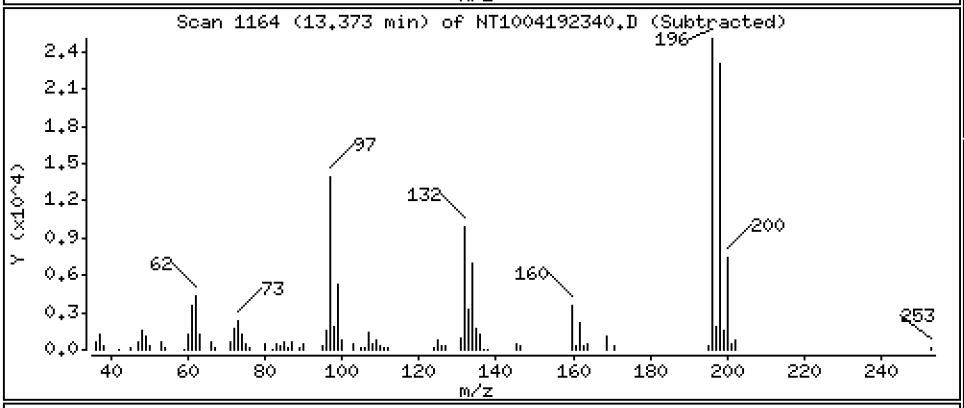
Column phase: ZB-5msi

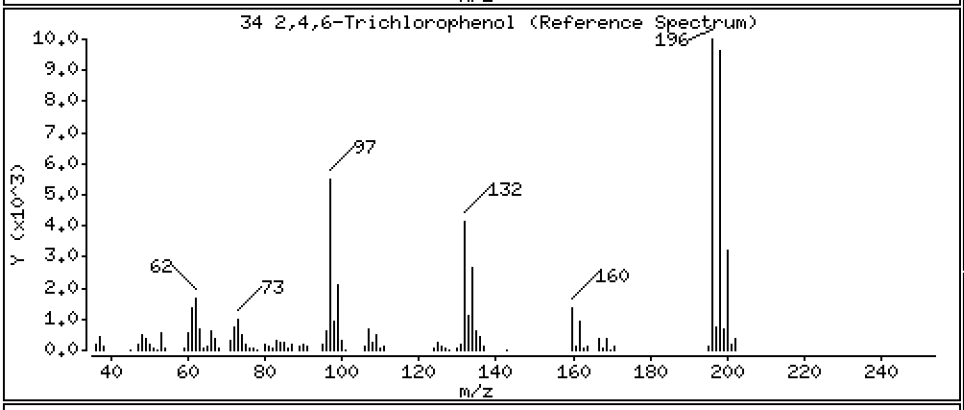
Column diameter: 0.25

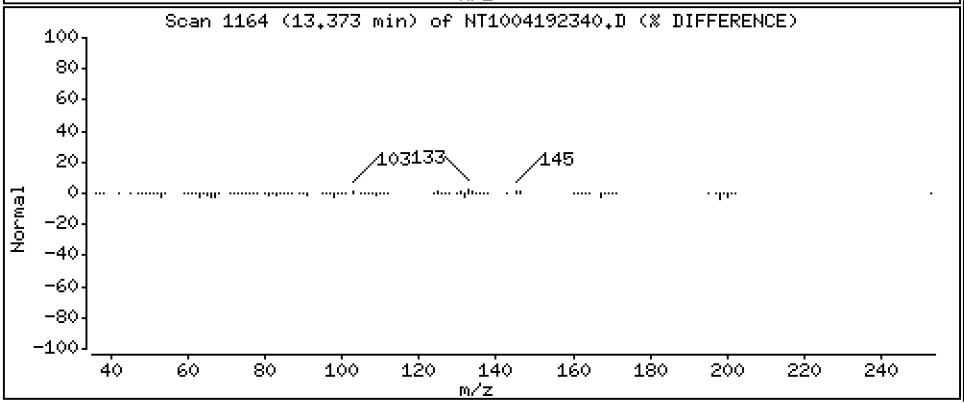
34 2,4,6-Trichlorophenol

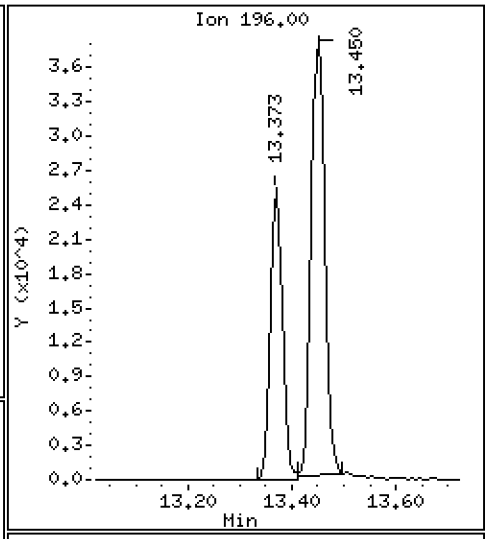
Concentration: 1.336 ug/mL

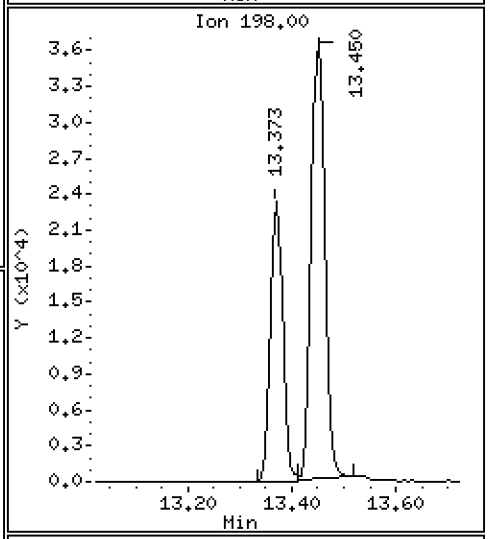


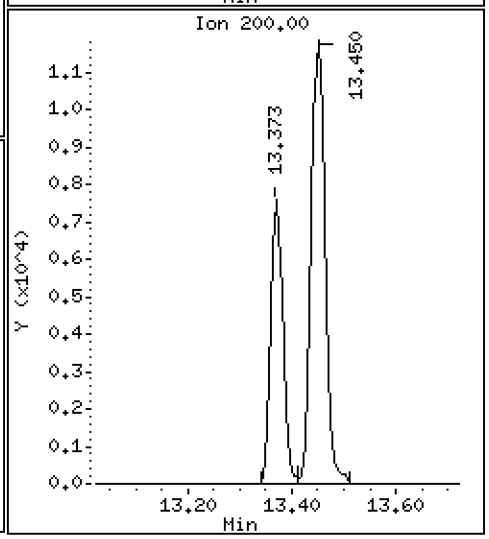












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

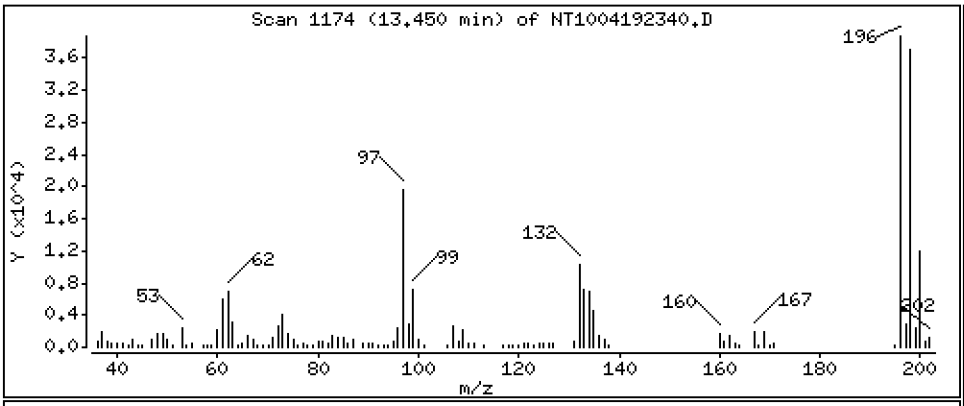
Operator: VTS

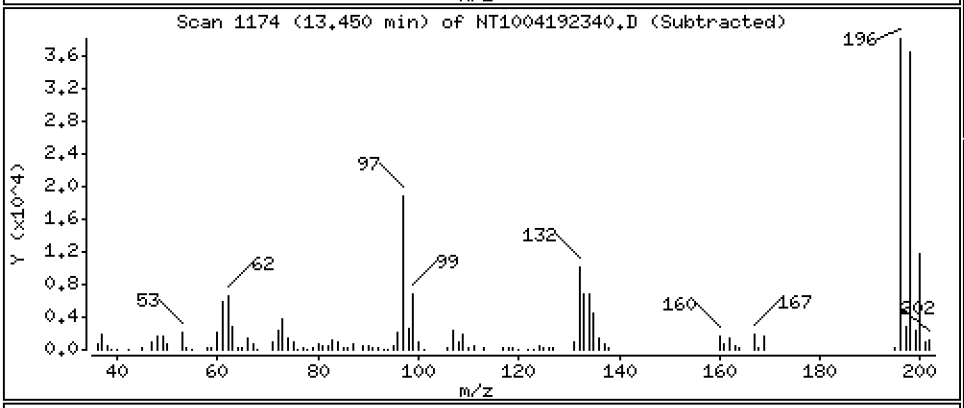
Column phase: ZB-5msi

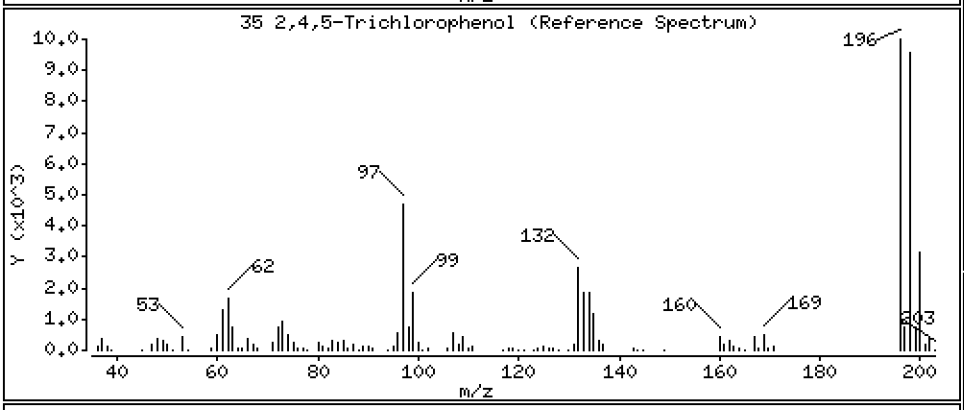
Column diameter: 0.25

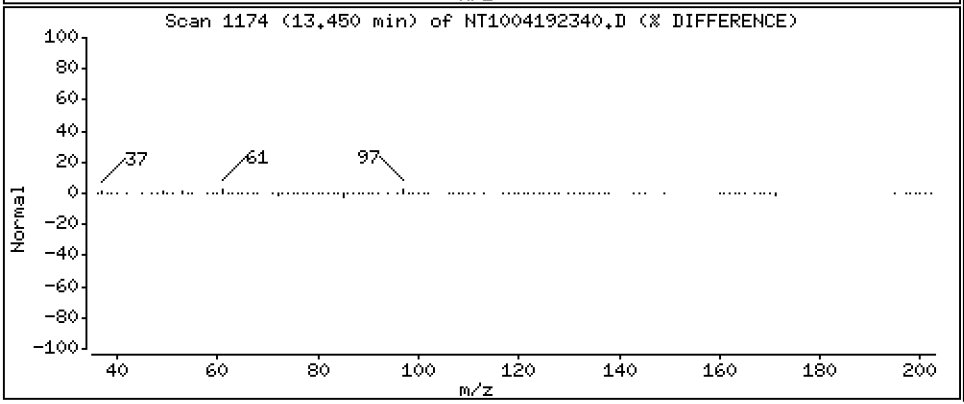
35 2,4,5-Trichlorophenol

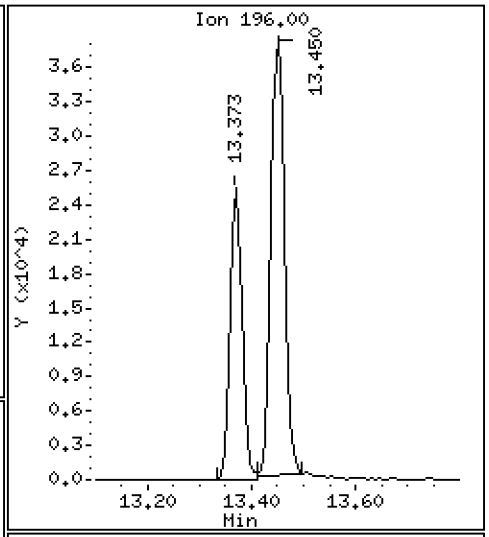
Concentration: 2.036 ug/mL

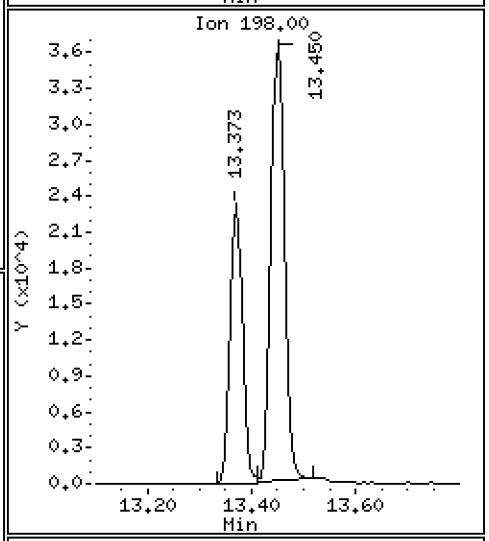


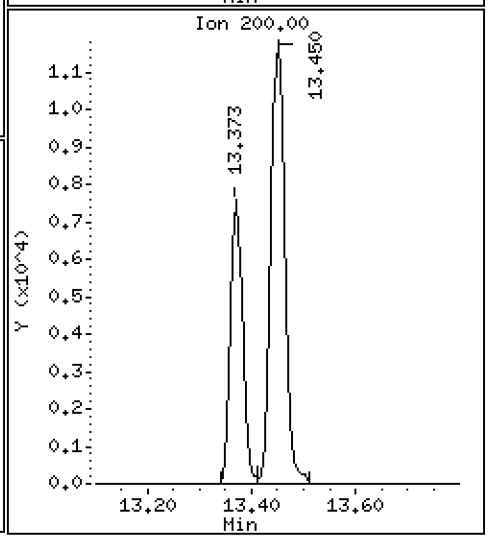












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192340.D

Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

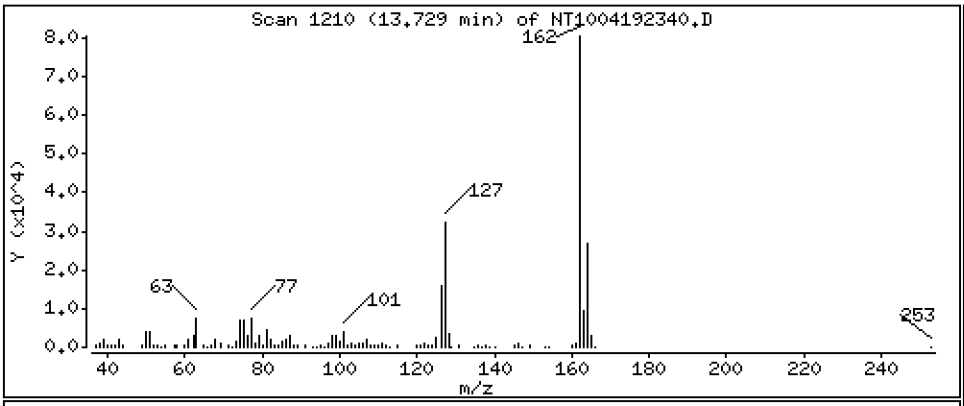
Operator: VTS

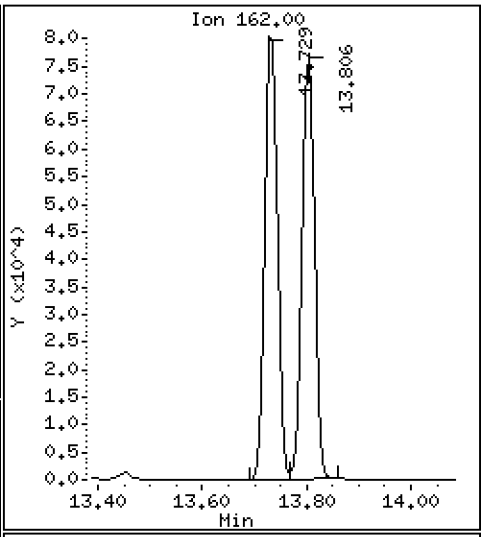
Column phase: ZB-5msi

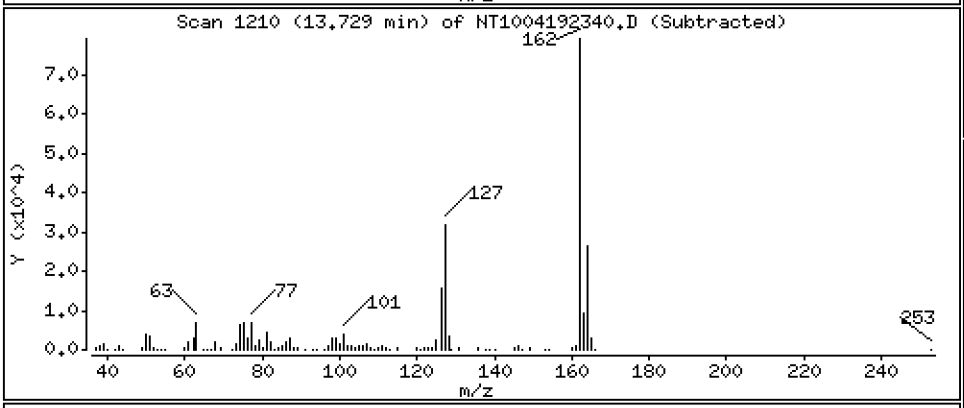
Column diameter: 0.25

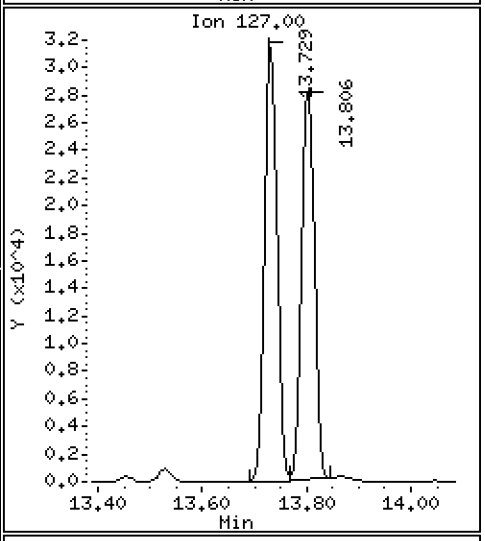
37 2-Chloronaphthalene

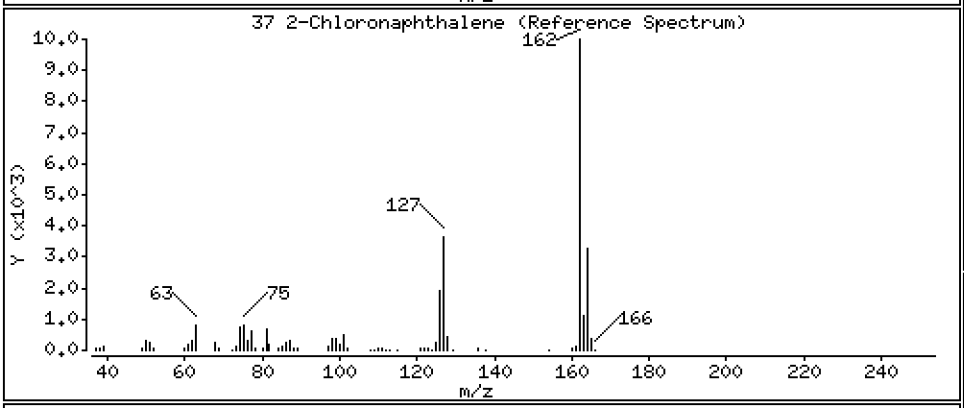
Concentration: 1.394 ug/mL

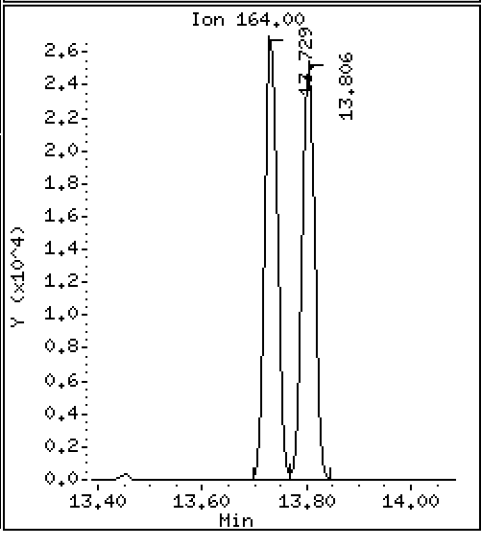


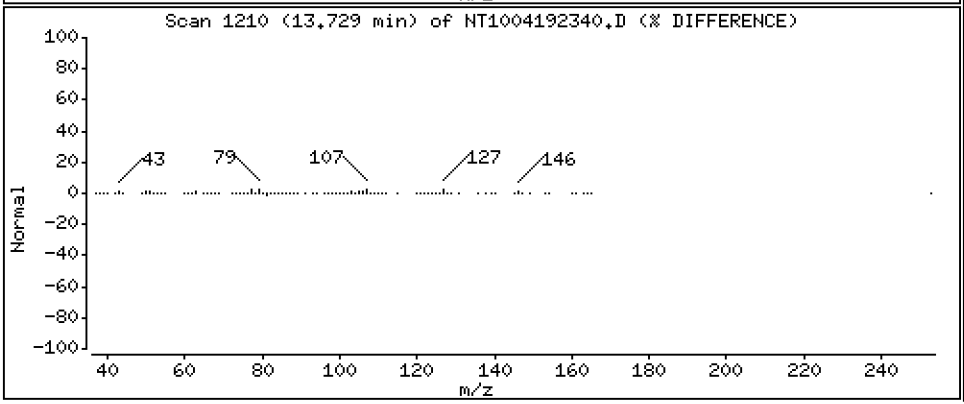












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

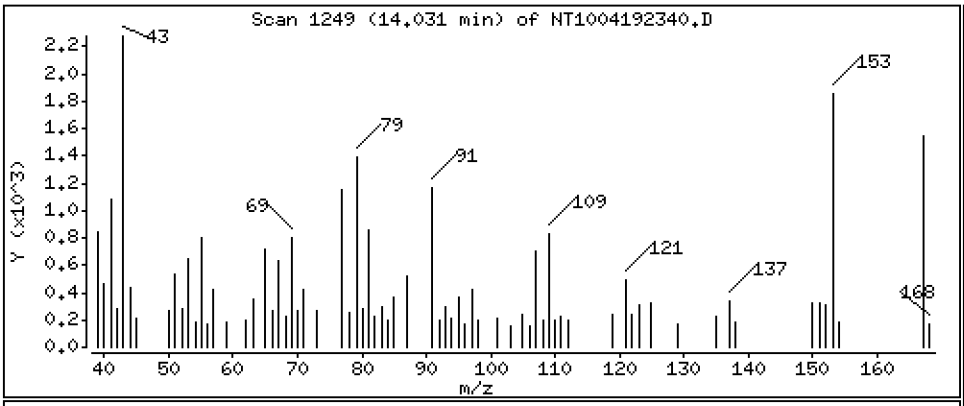
Operator: VTS

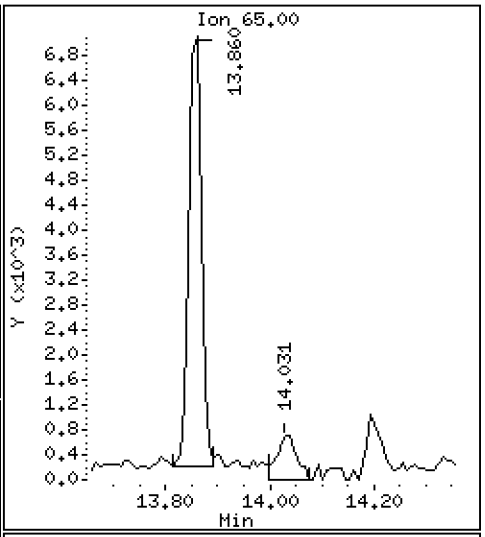
Column phase: ZB-5msi

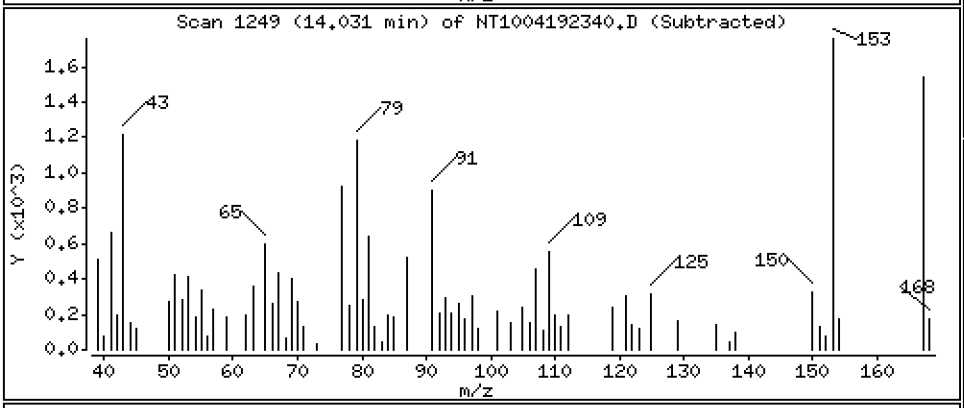
Column diameter: 0.25

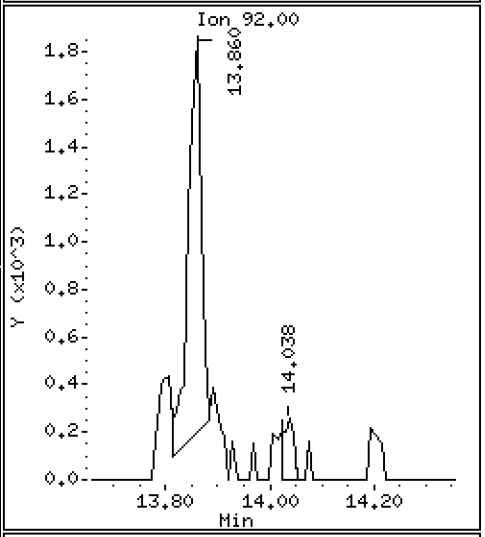
38 2-Nitroaniline

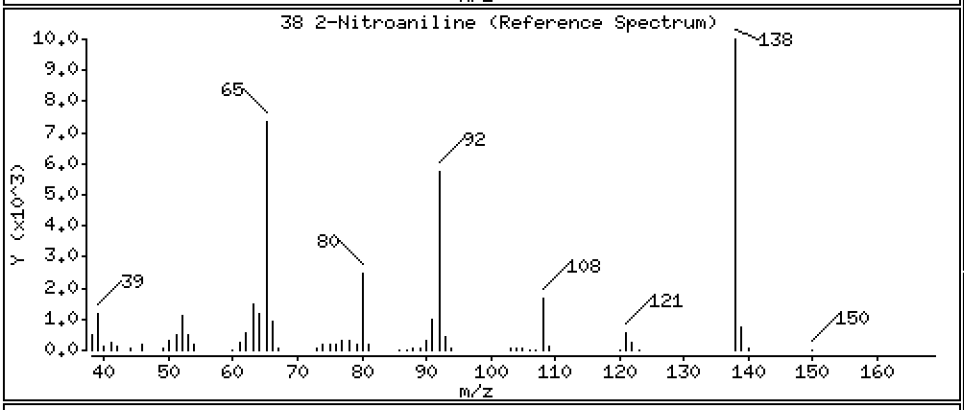
Concentration: 0.07392 ug/mL

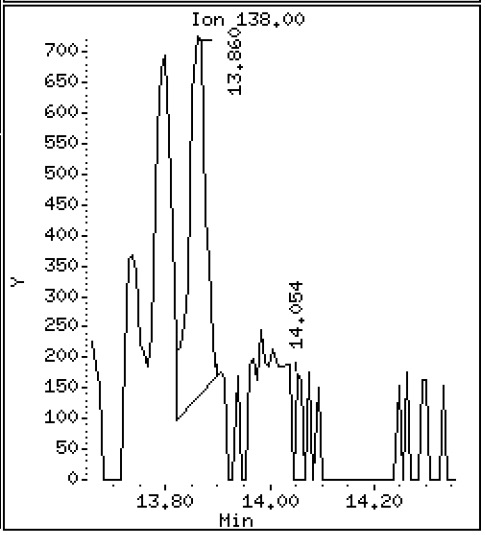


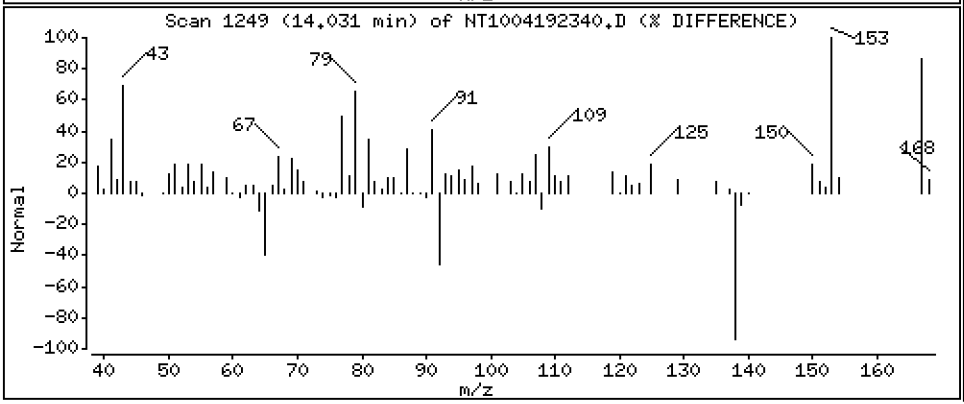












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

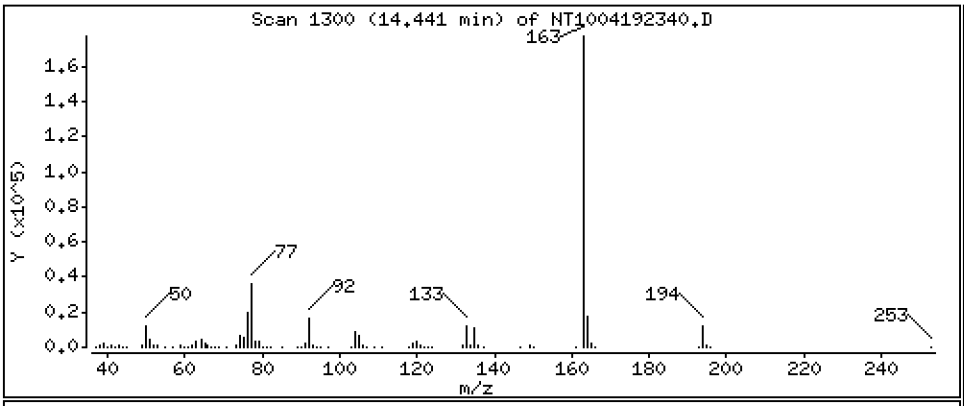
Operator: VTS

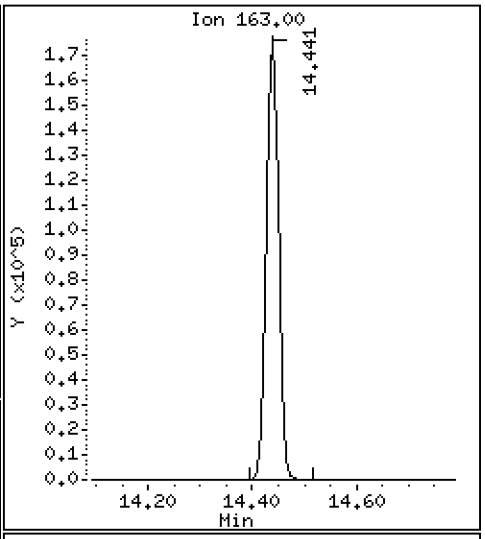
Column phase: ZB-5msi

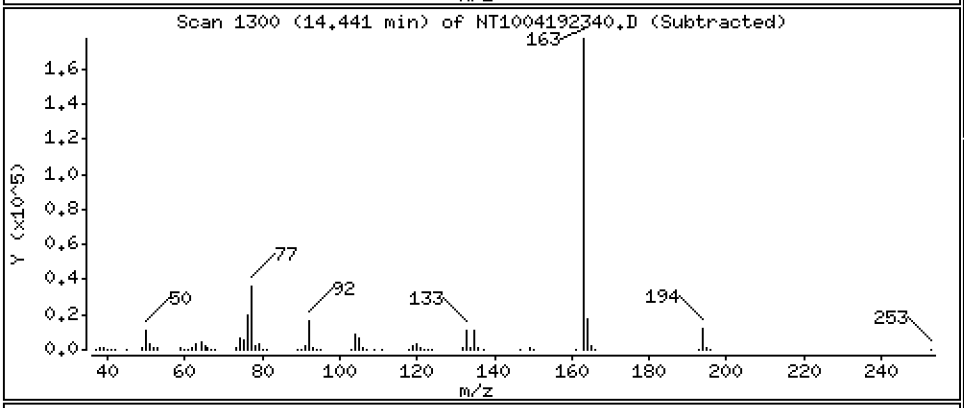
Column diameter: 0.25

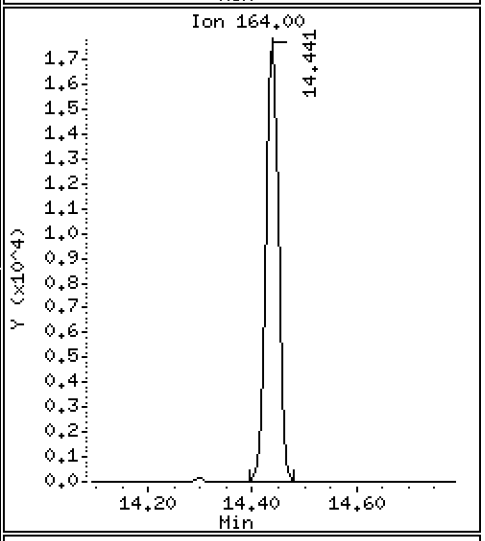
39 Dimethylphthalate

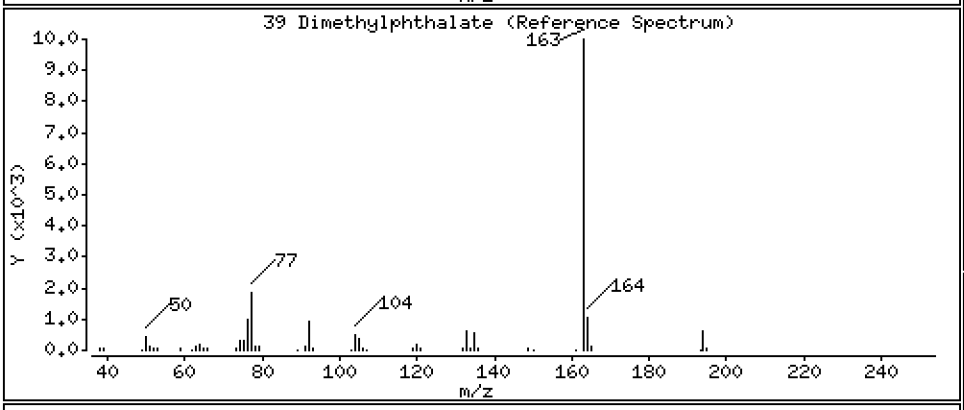
Concentration: 2.861 ug/mL

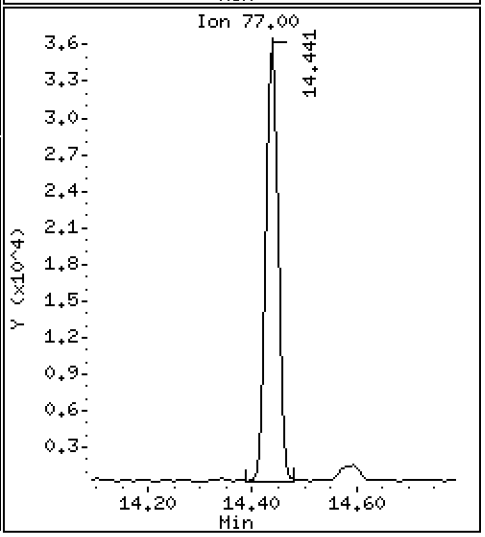


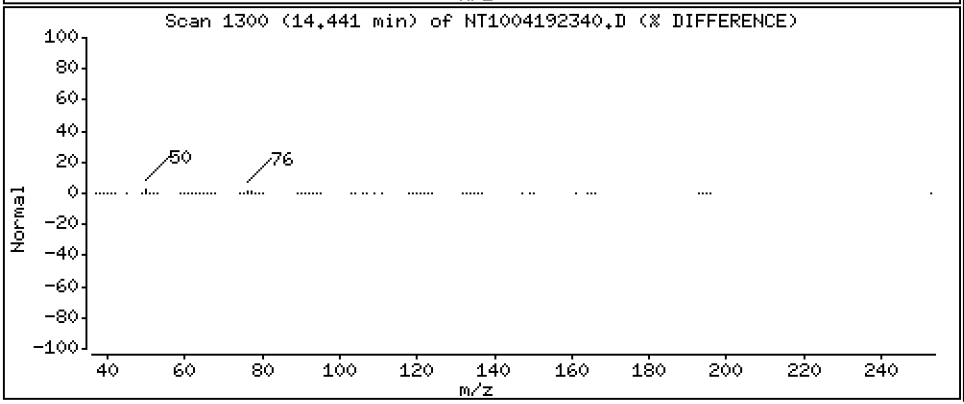












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

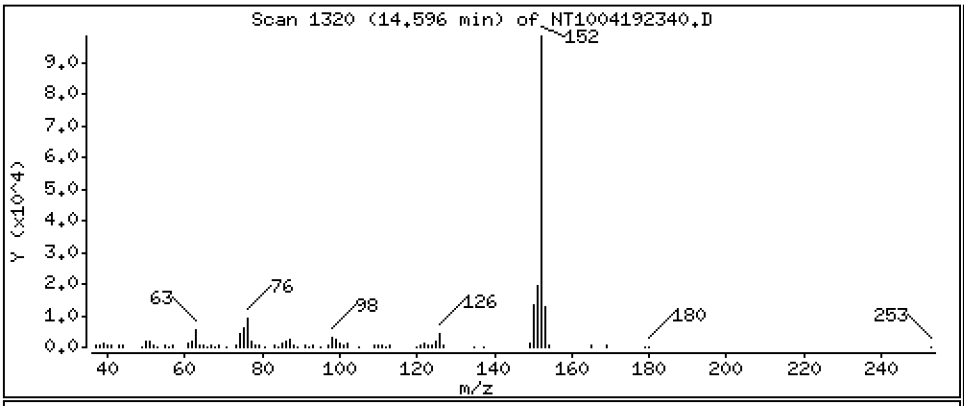
Operator: VTS

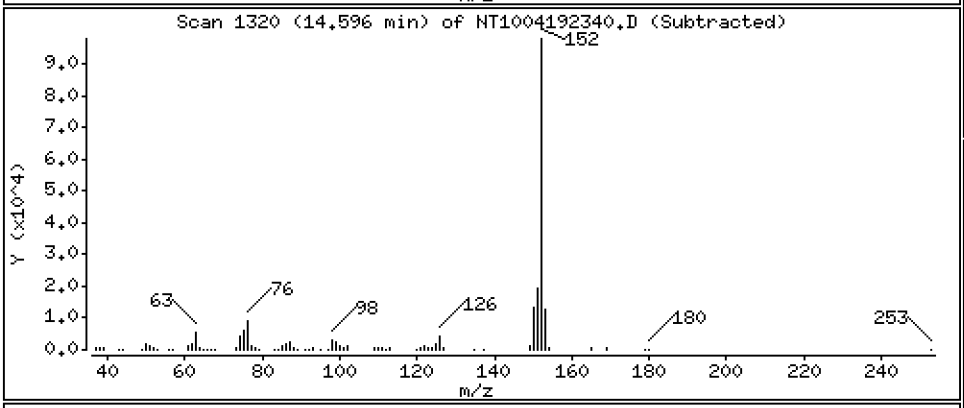
Column phase: ZB-5msi

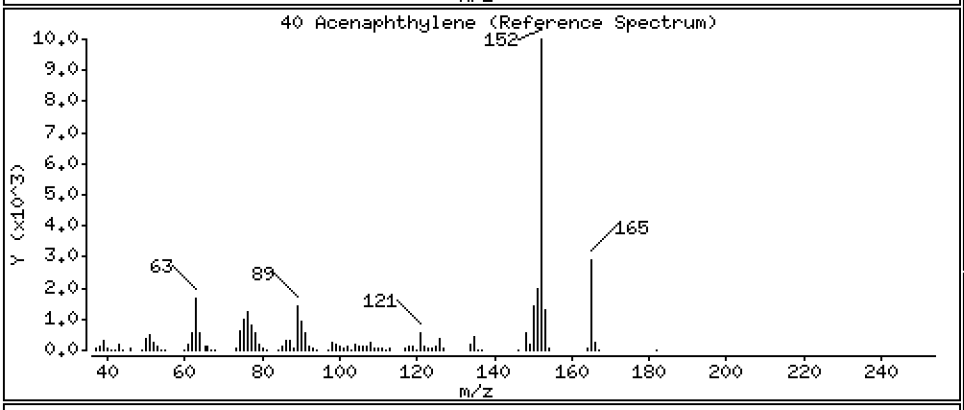
Column diameter: 0.25

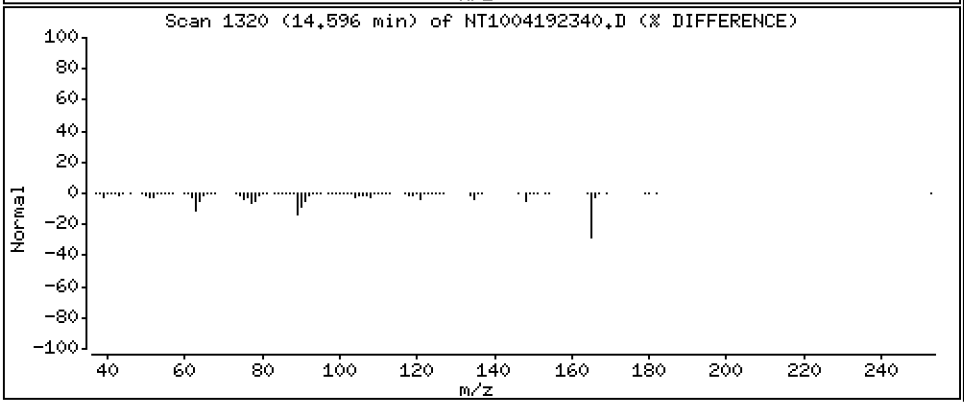
40 Acenaphthylene

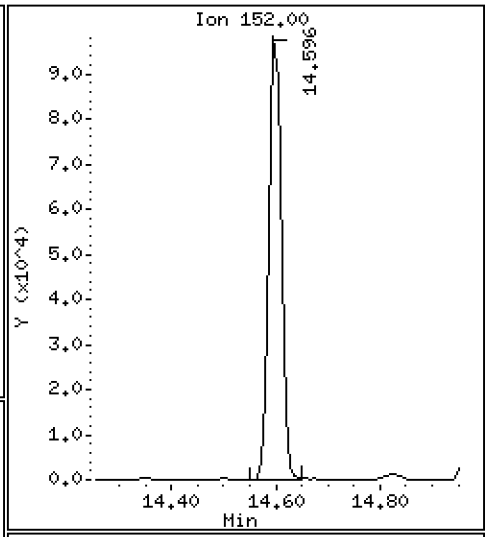
Concentration: 1.049 ug/mL

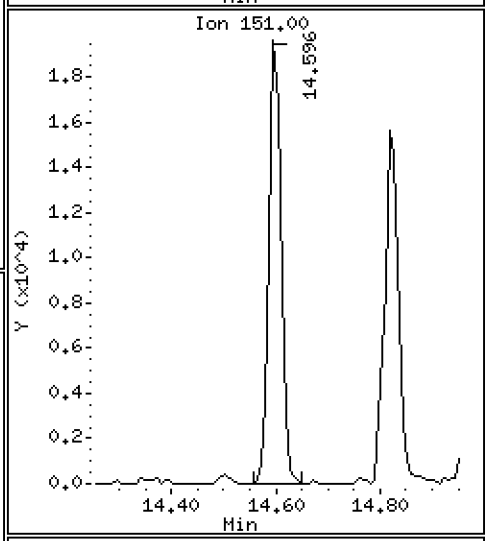


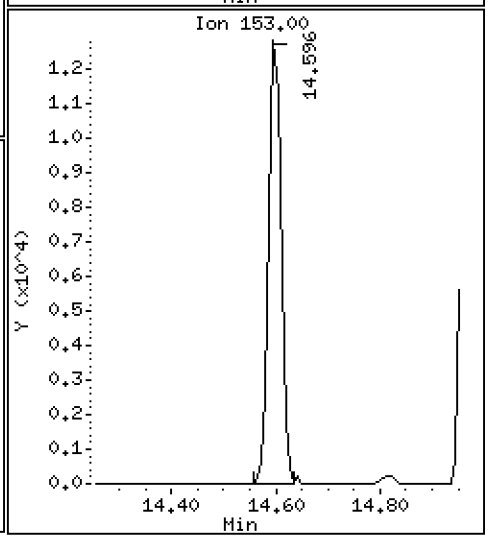












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

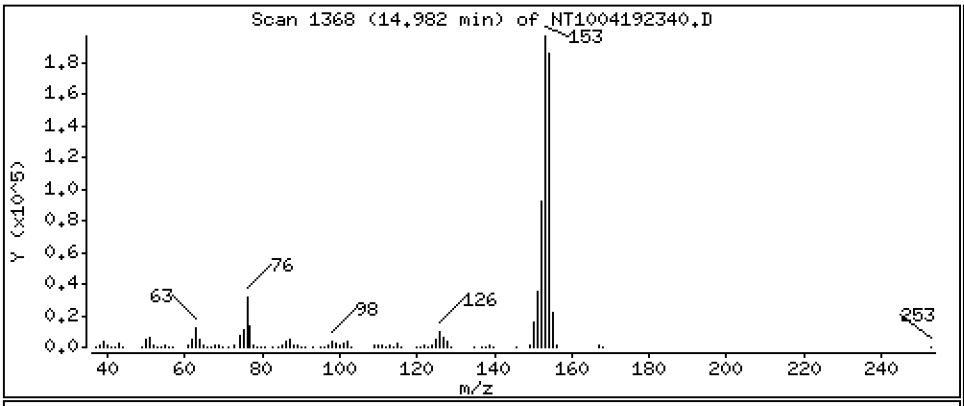
Operator: VTS

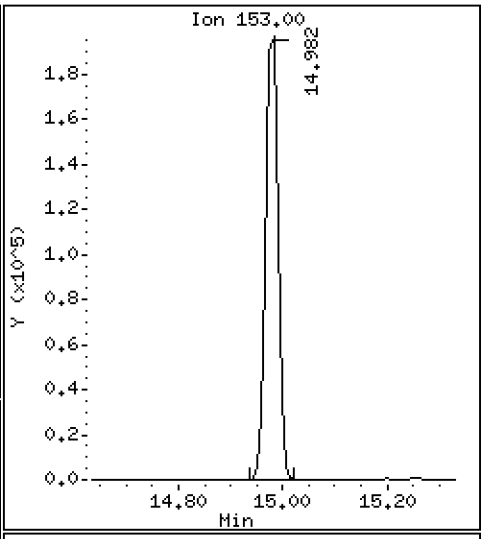
Column phase: ZB-5msi

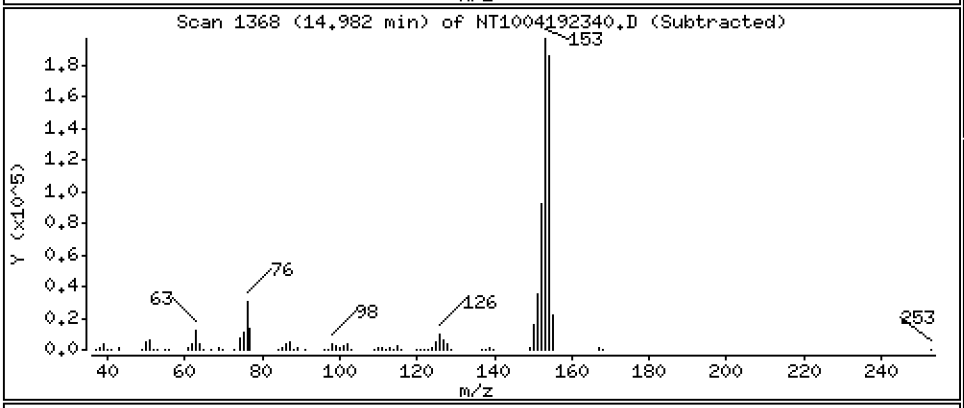
Column diameter: 0.25

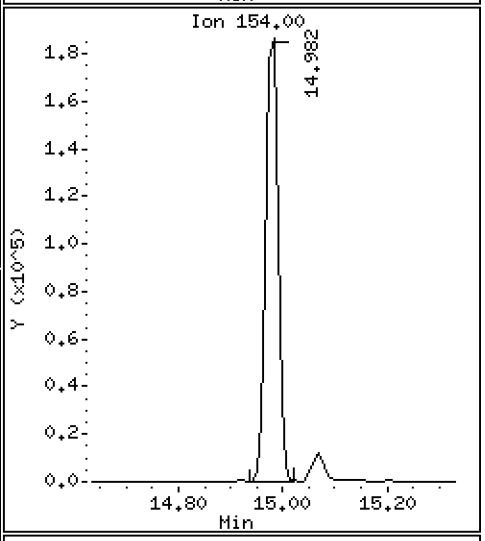
44 Acenaphthene

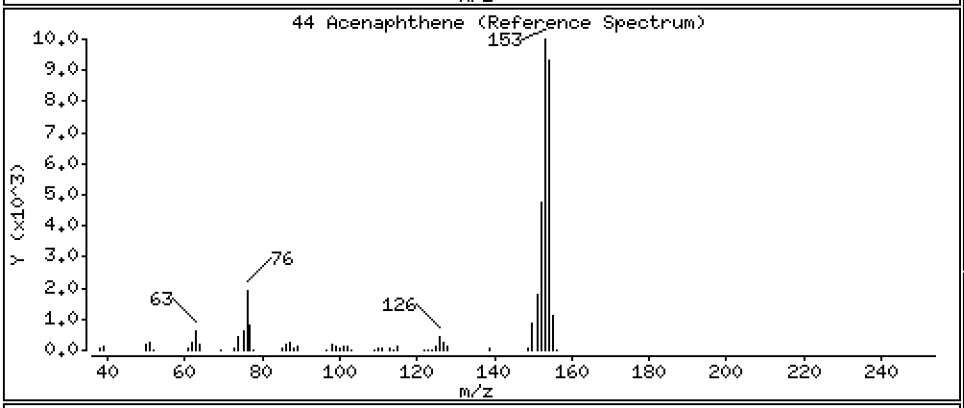
Concentration: 3.416 ug/mL

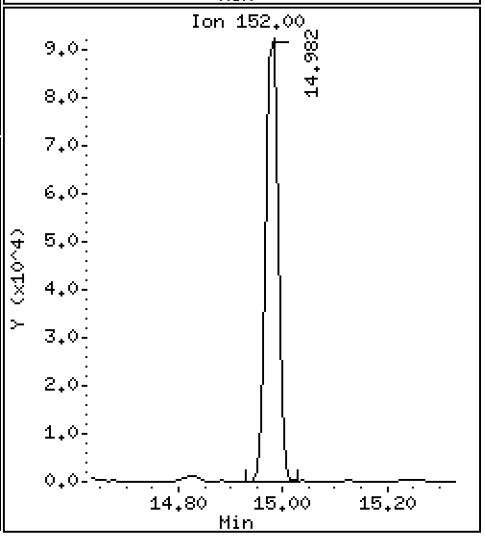


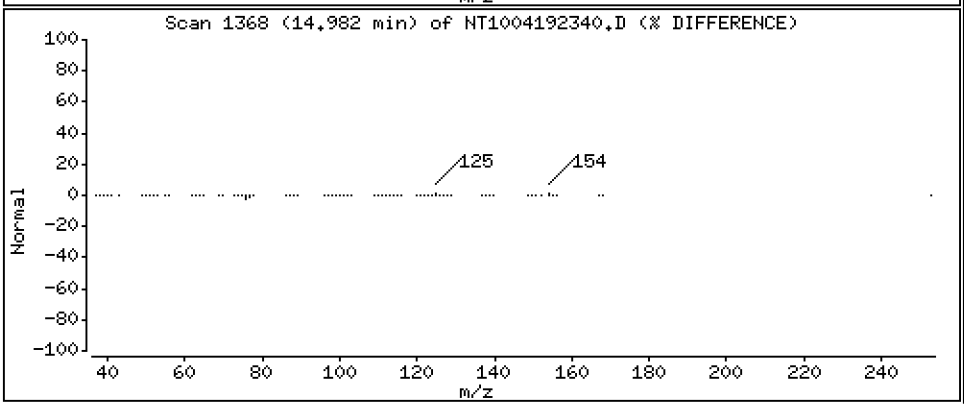












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

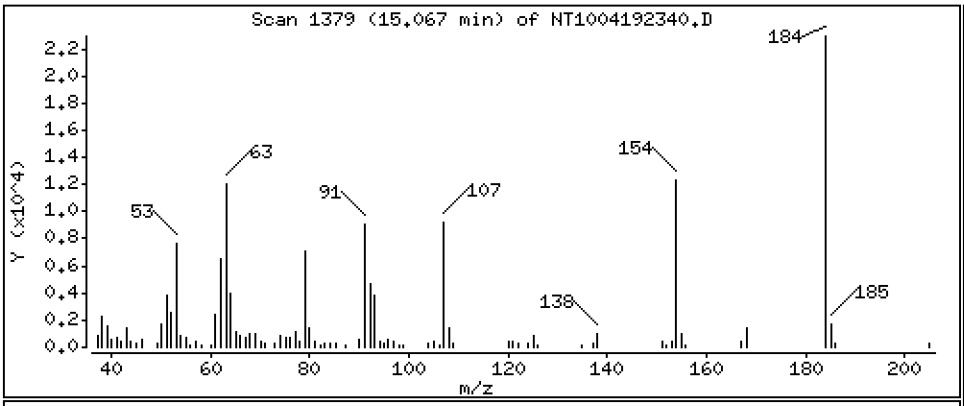
Operator: VTS

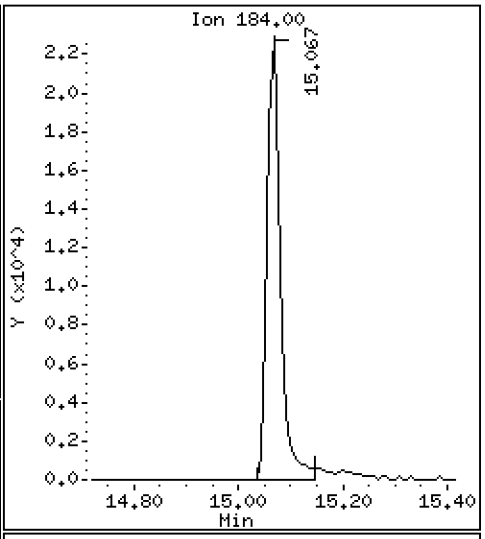
Column phase: ZB-5msi

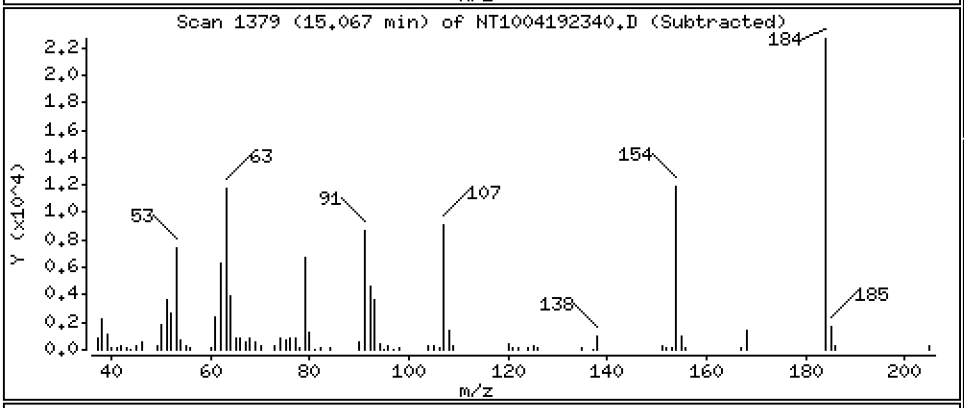
Column diameter: 0.25

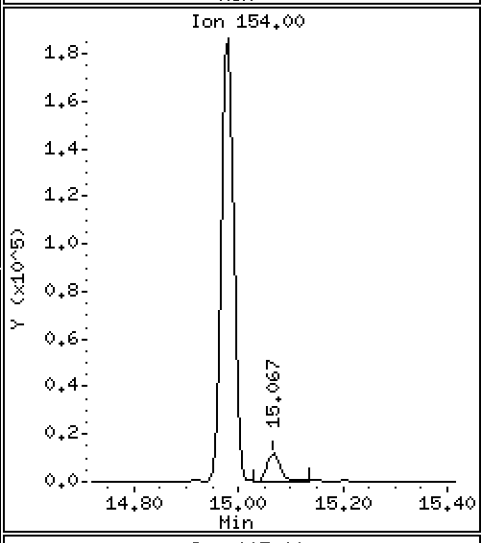
45 2,4-Dinitrophenol

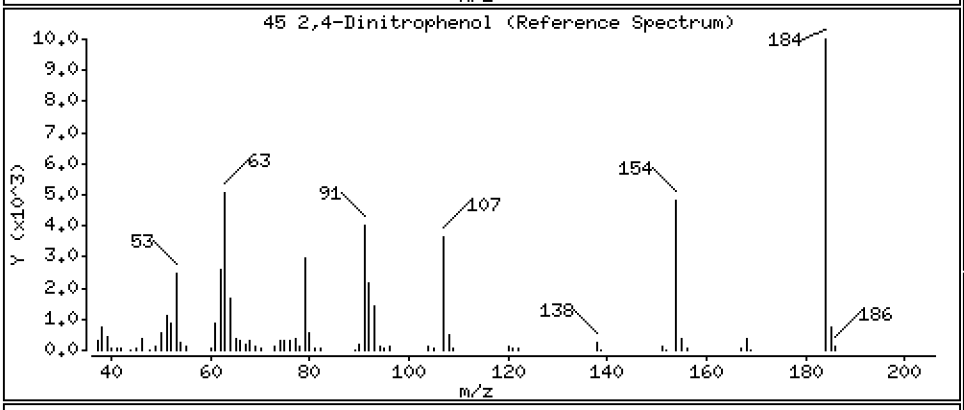
Concentration: 3.088 ug/mL

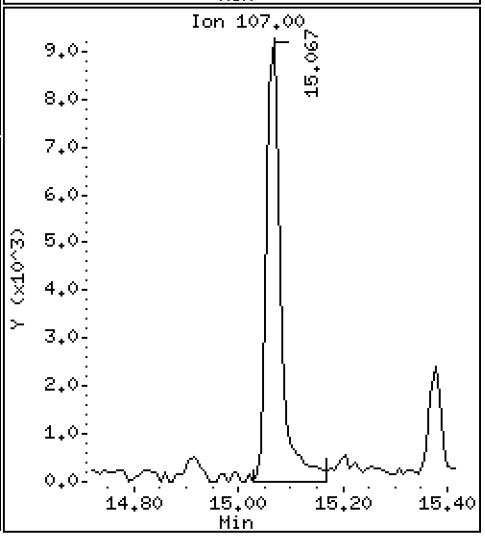


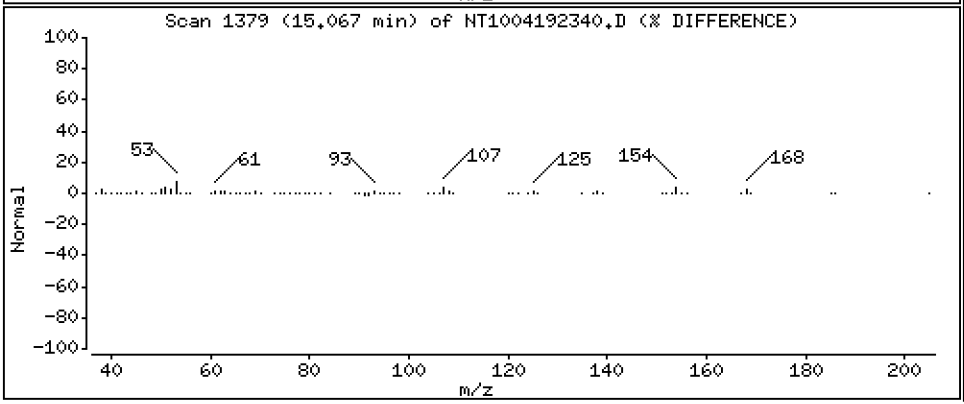












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

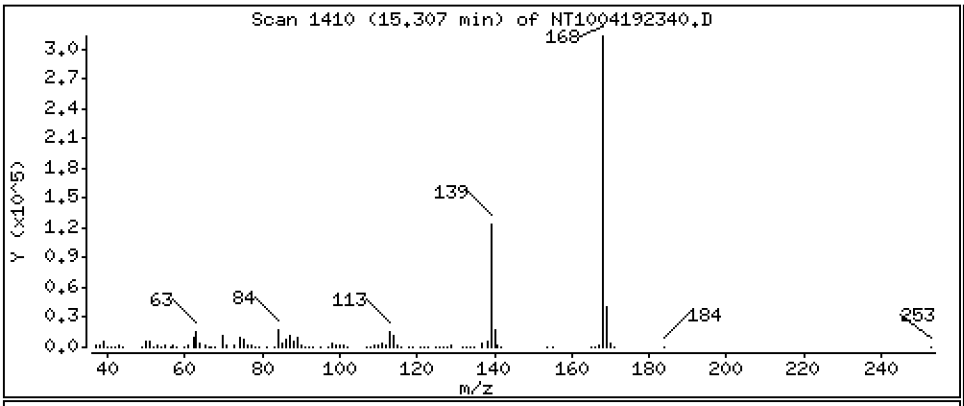
Operator: VTS

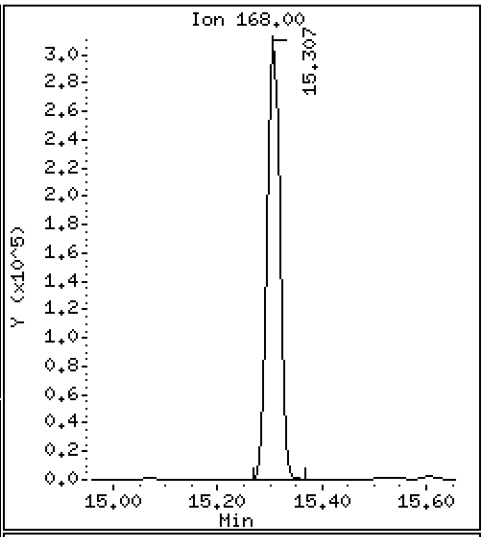
Column phase: ZB-5msi

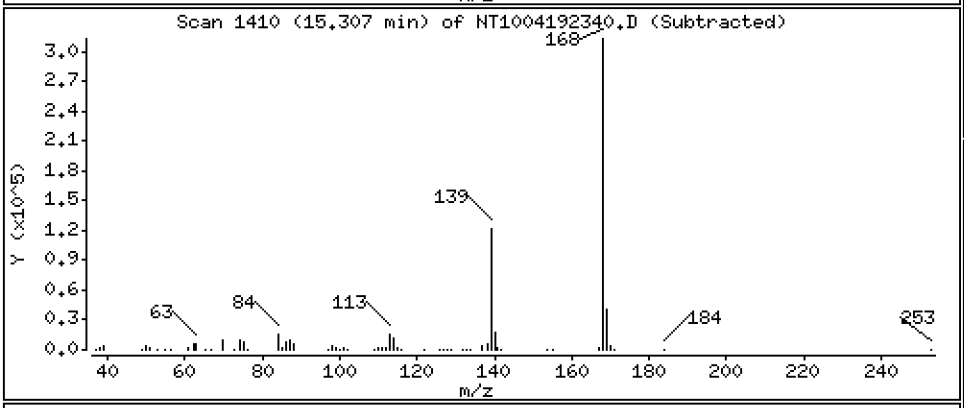
Column diameter: 0.25

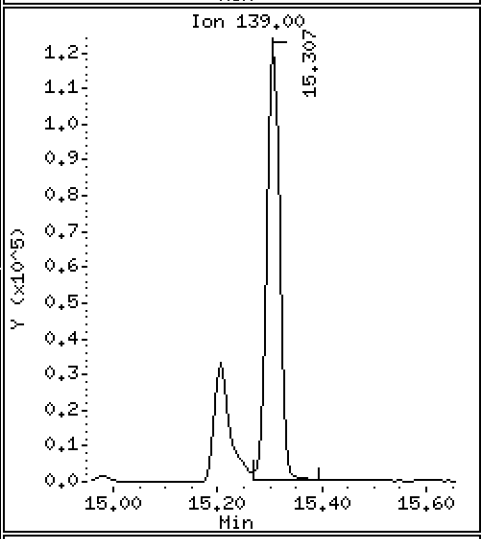
46 Dibenzofuran

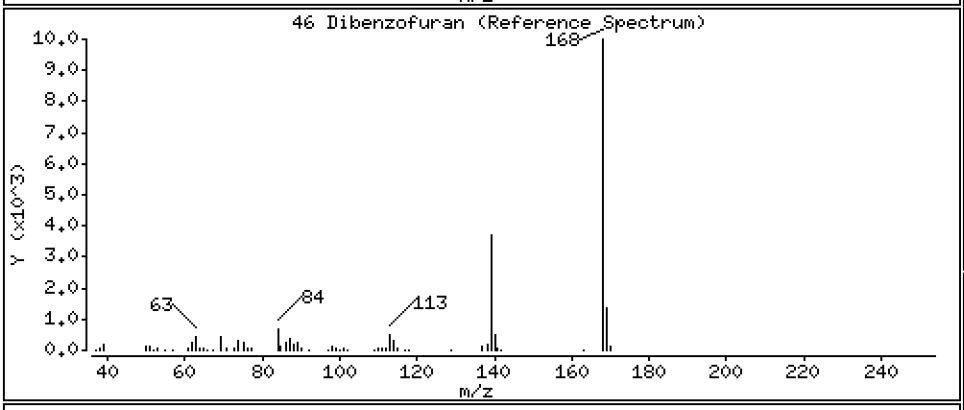
Concentration: 3.710 ug/mL

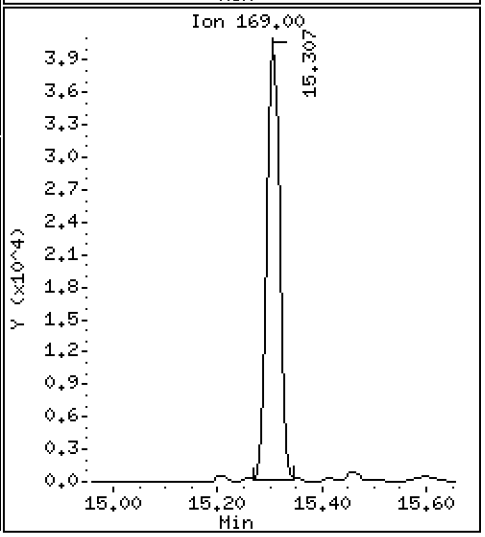


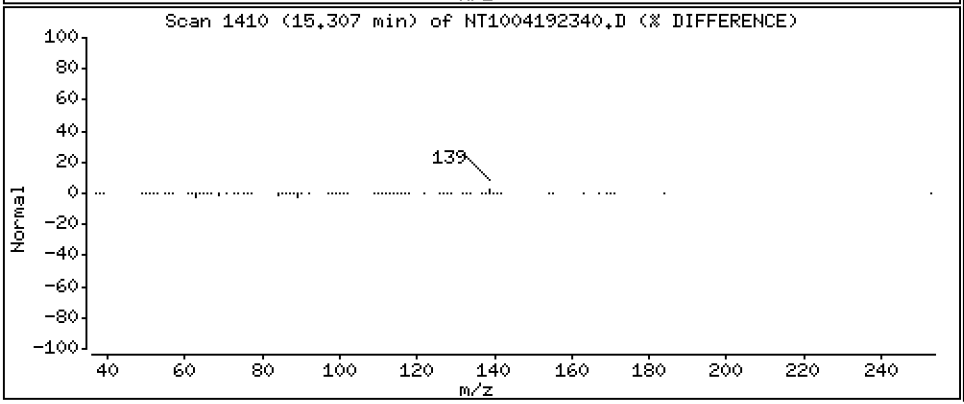












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

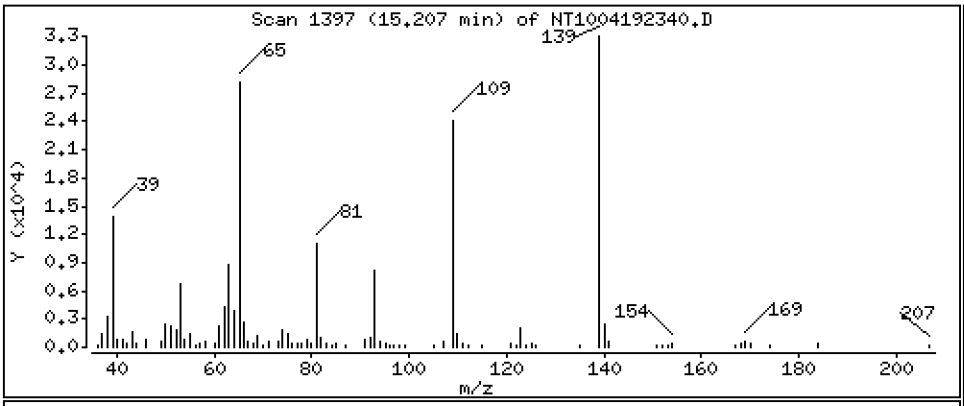
Operator: VTS

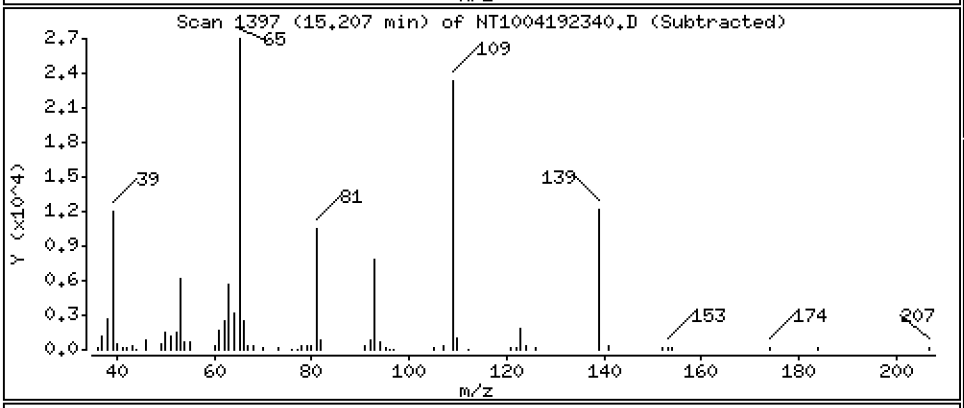
Column phase: ZB-5msi

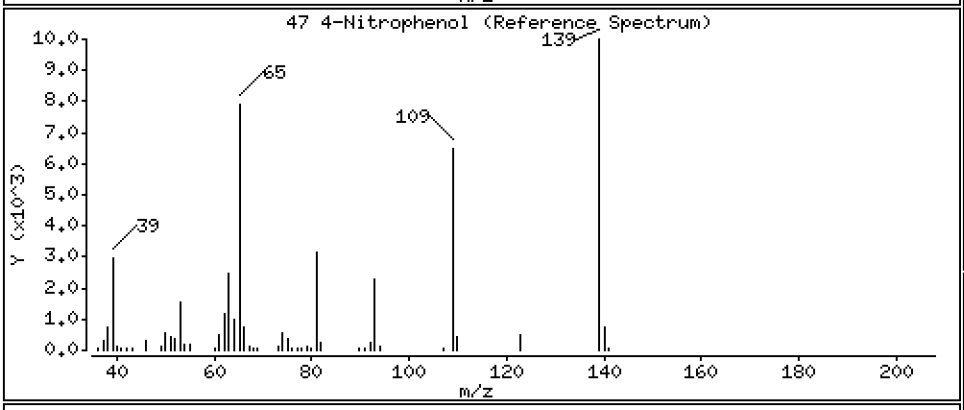
Column diameter: 0.25

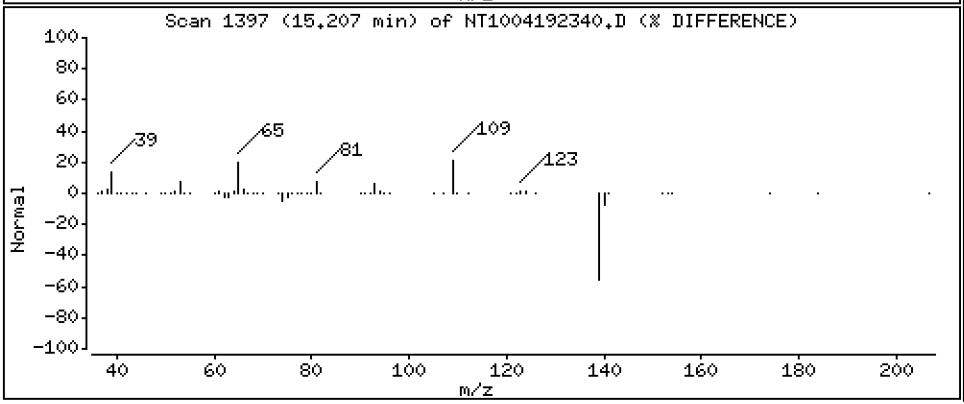
47 4-Nitrophenol

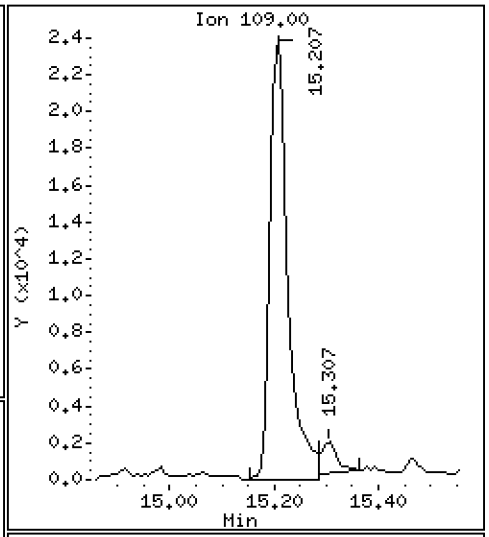
Concentration: 3.813 ug/mL

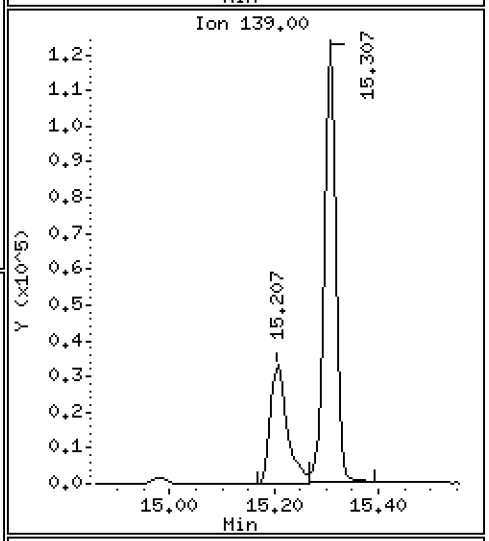


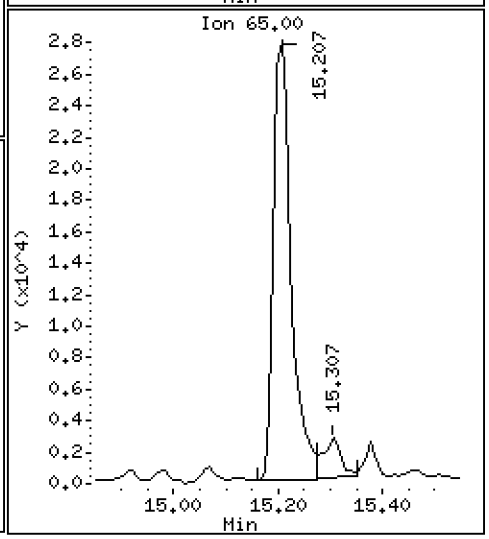












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

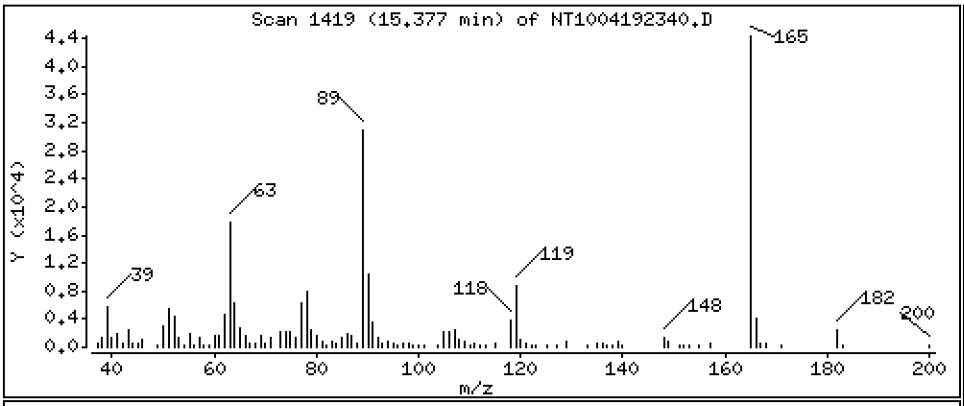
Operator: VTS

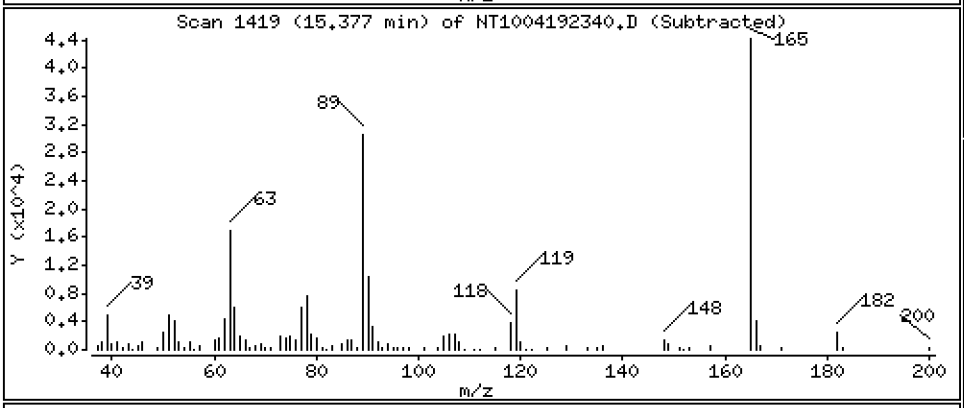
Column phase: ZB-5msi

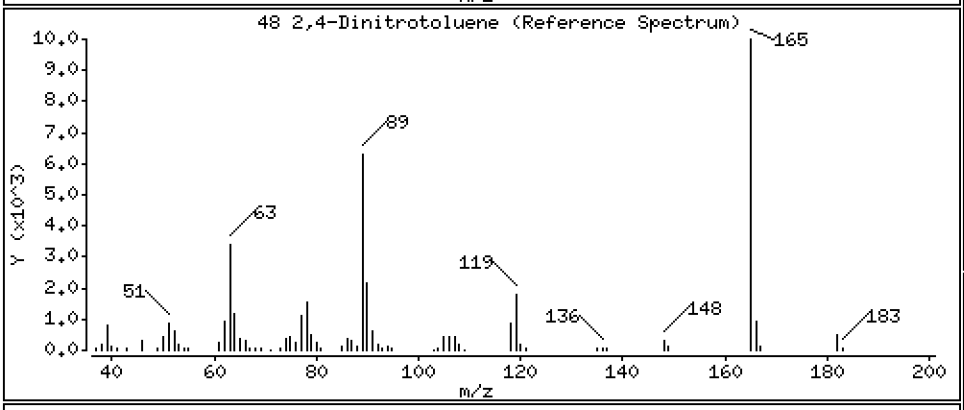
Column diameter: 0.25

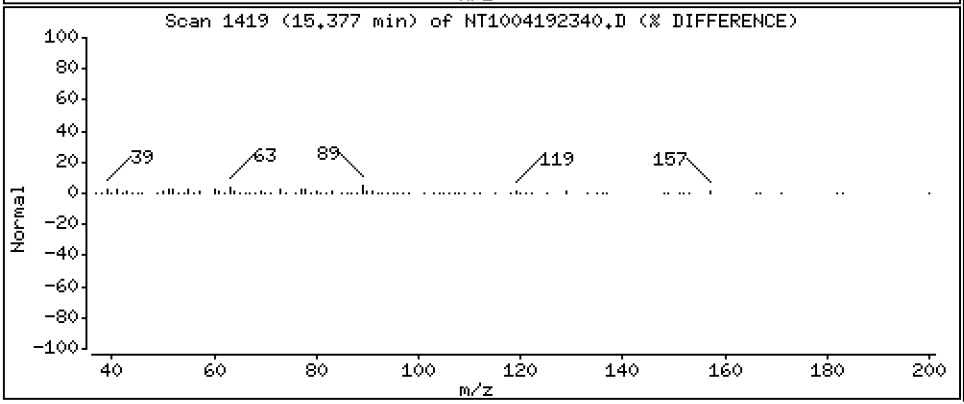
48 2,4-Dinitrotoluene

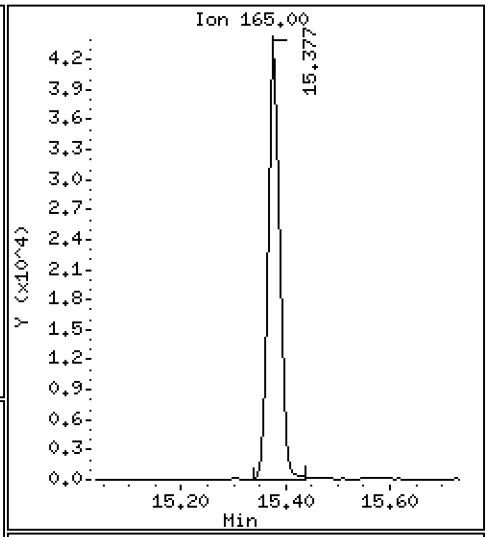
Concentration: 2.107 ug/mL

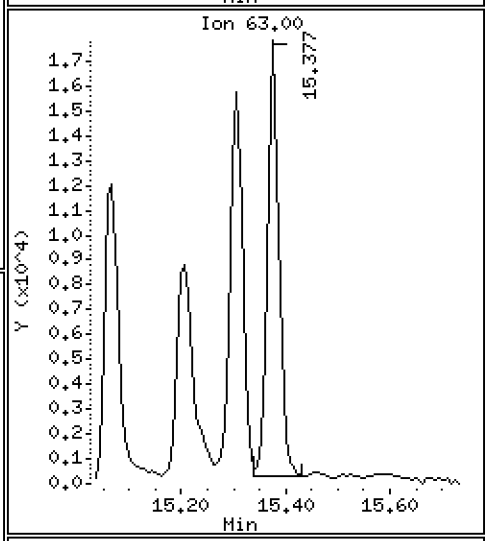


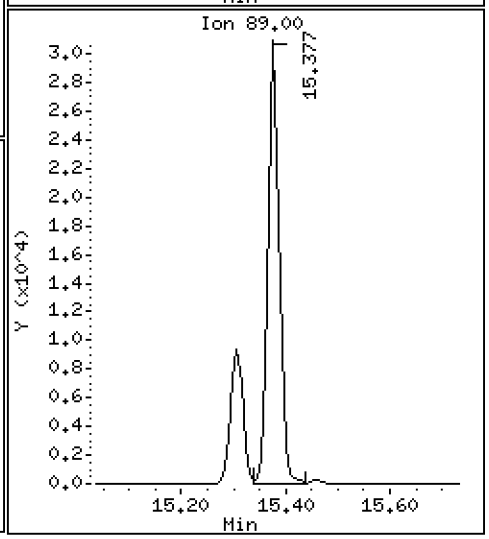












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

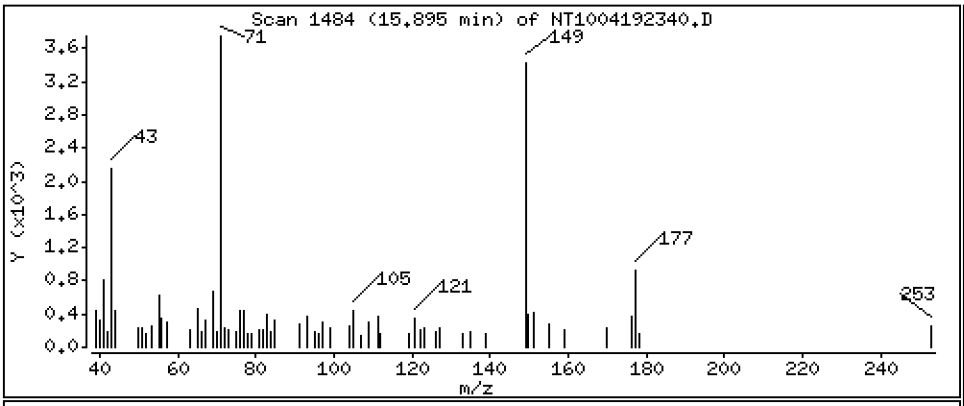
Operator: VTS

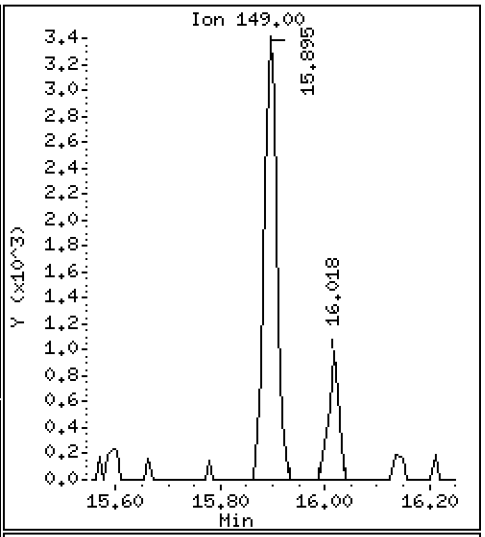
Column phase: ZB-5msi

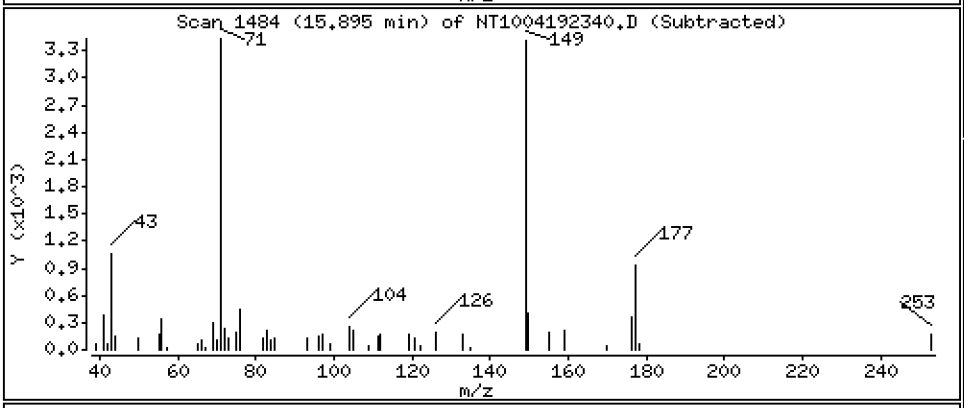
Column diameter: 0.25

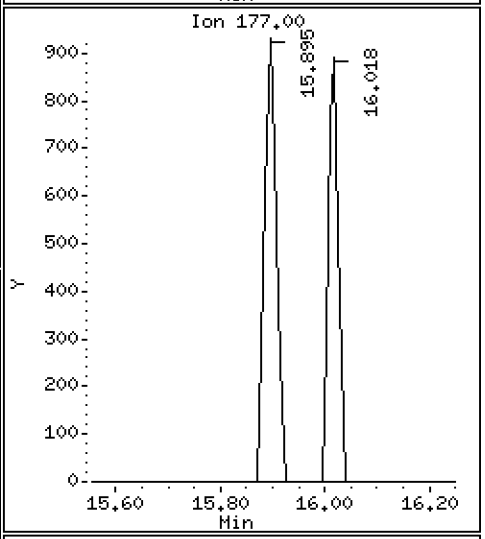
50 Diethylphthalate

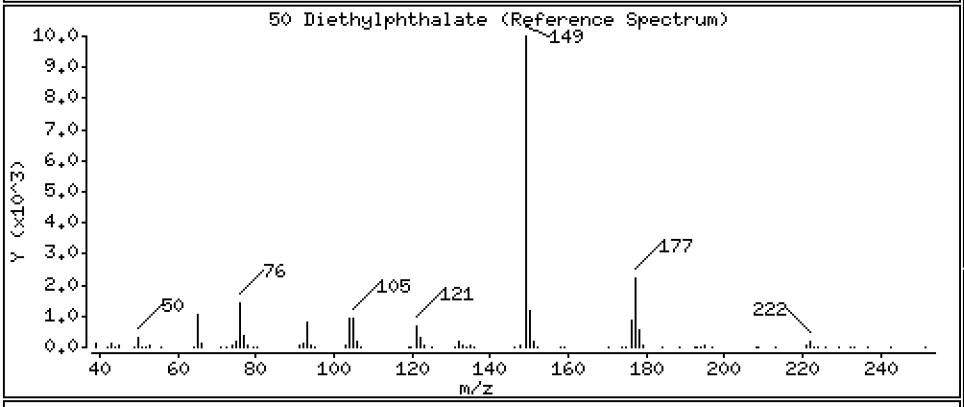
Concentration: 0.05811 ug/mL

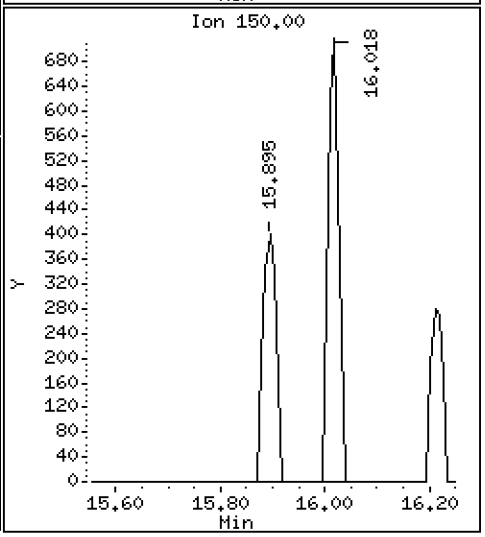


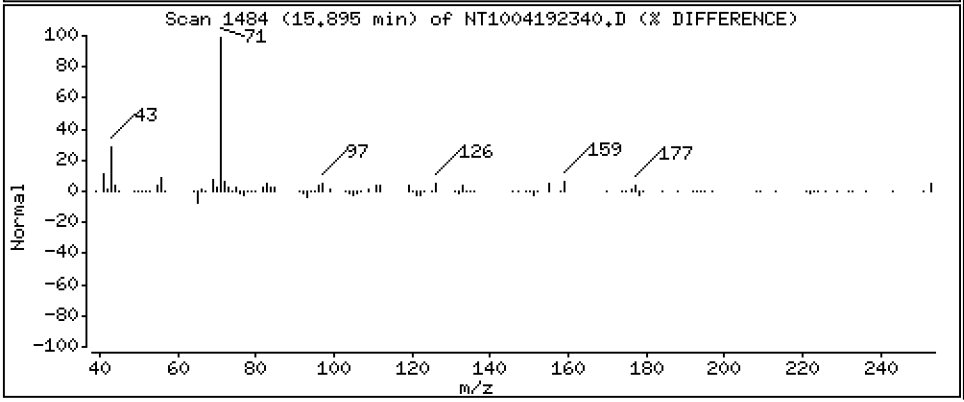












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

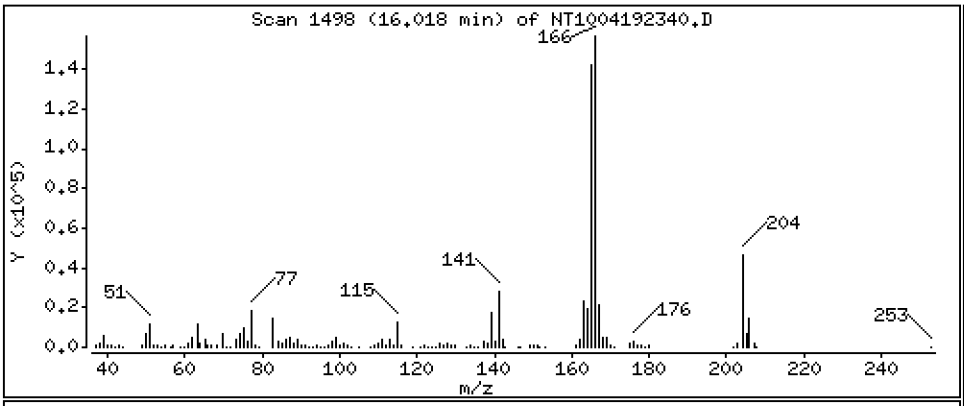
Operator: VTS

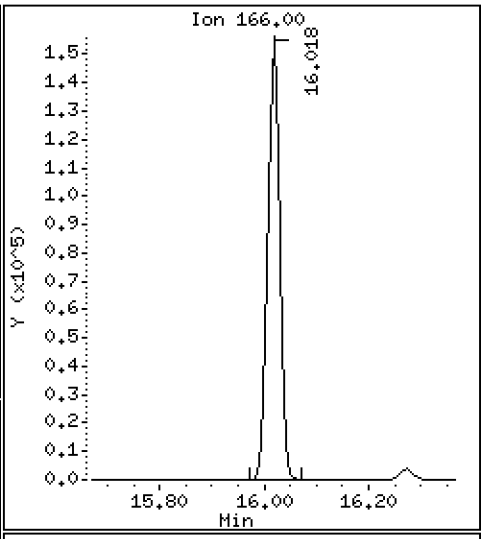
Column phase: ZB-5msi

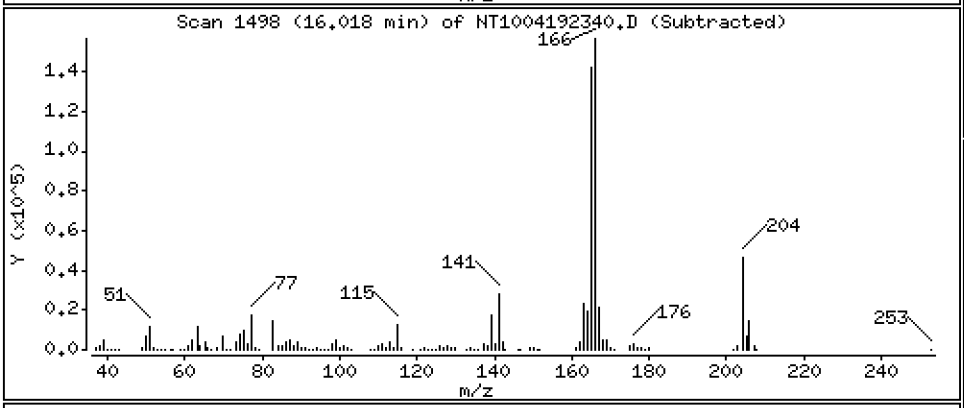
Column diameter: 0.25

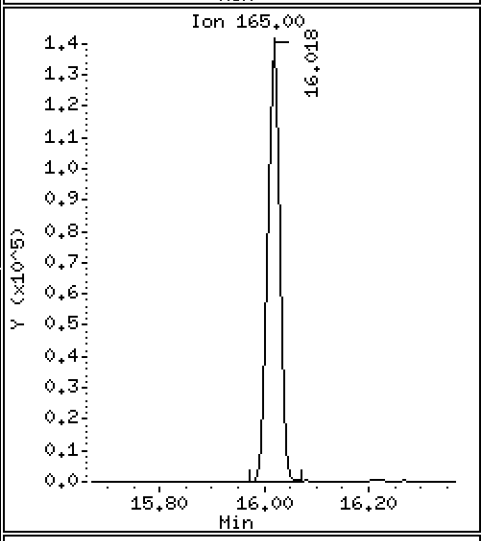
49 Fluorene

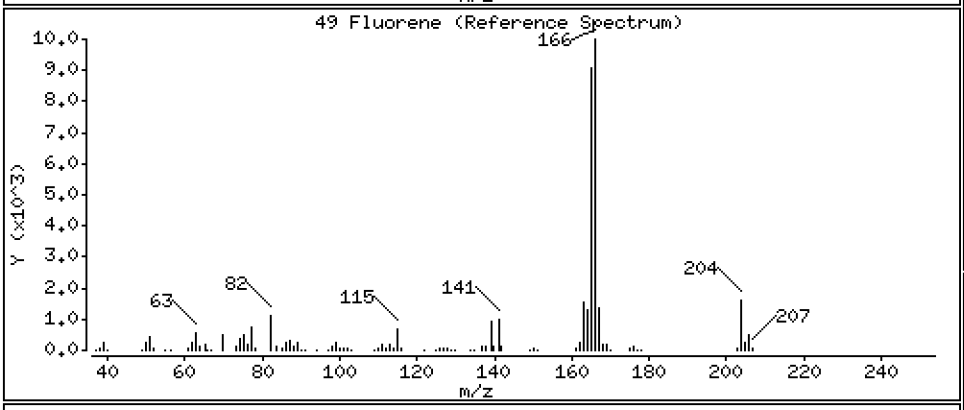
Concentration: 2.305 ug/mL

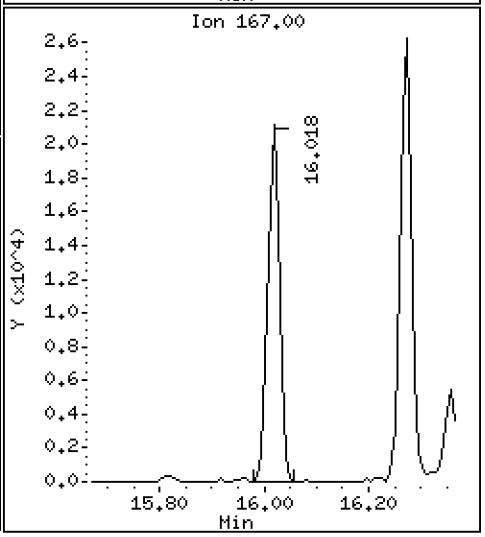


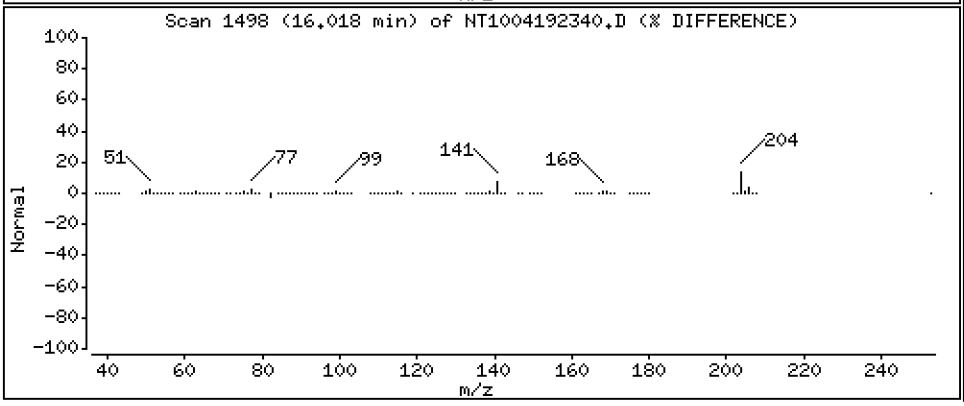












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

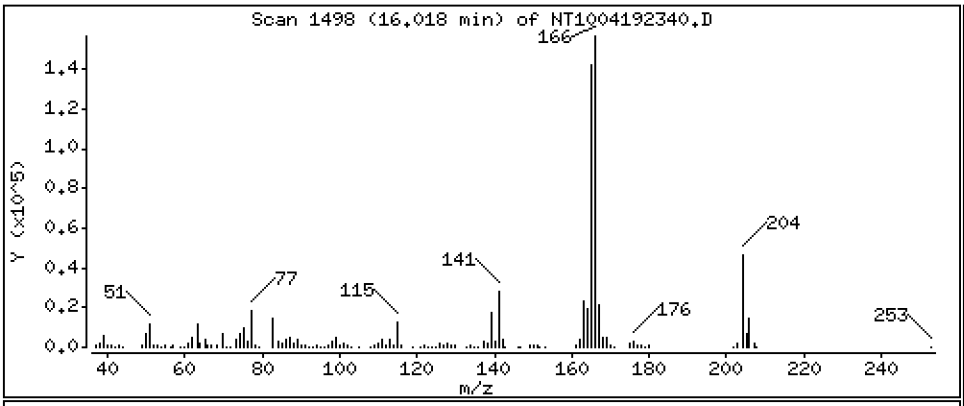
Operator: VTS

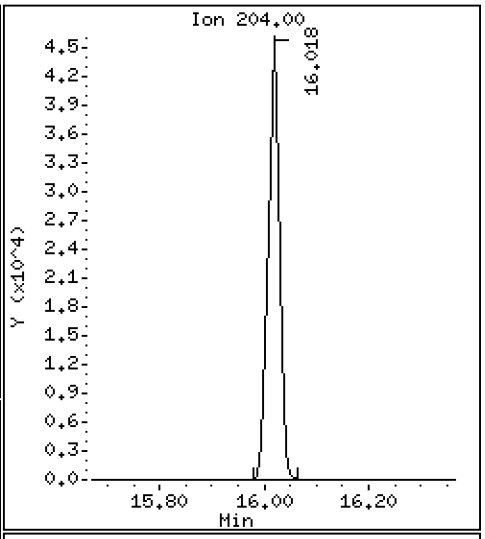
Column phase: ZB-5msi

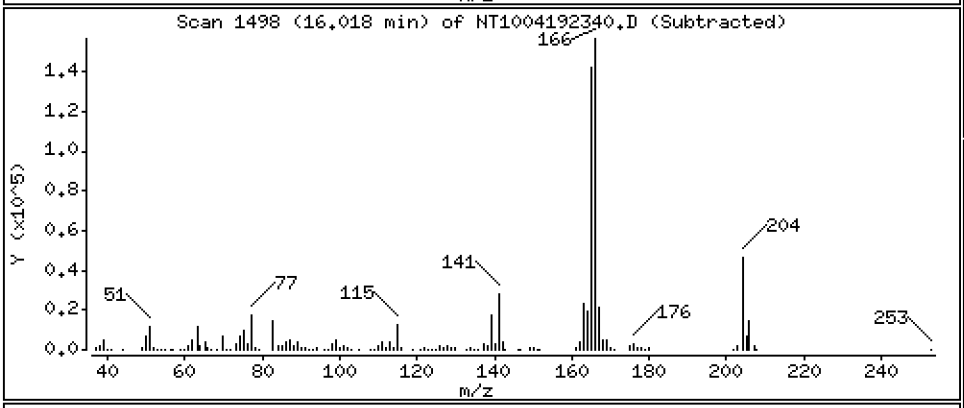
Column diameter: 0.25

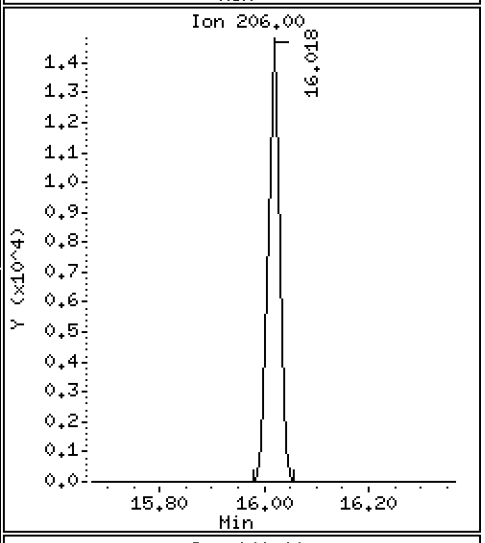
51 4-Chlorophenyl-phenylether

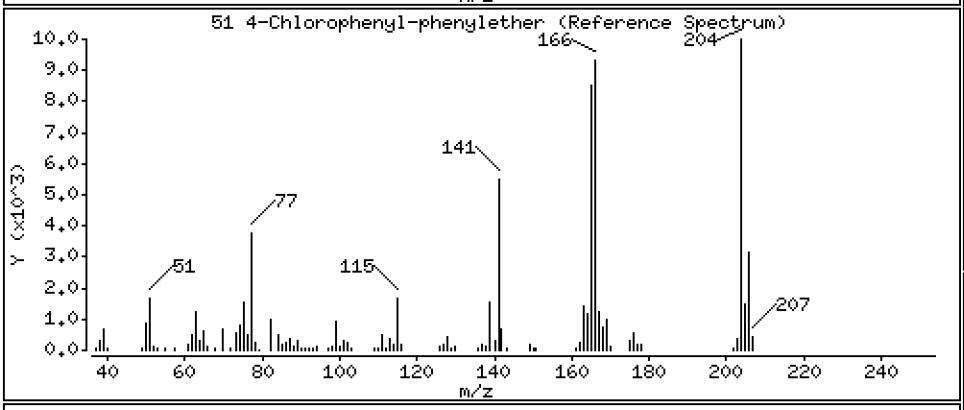
Concentration: 1.350 ug/mL

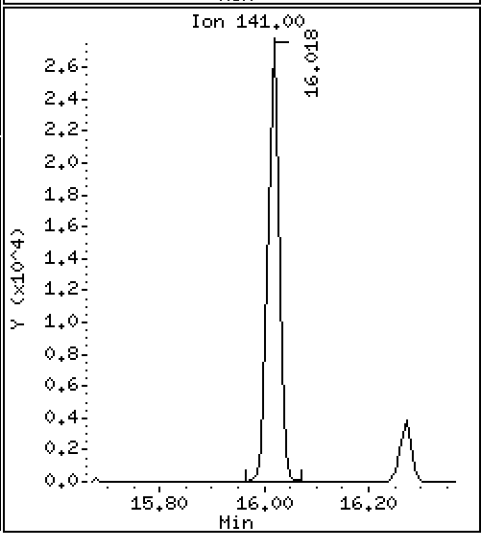


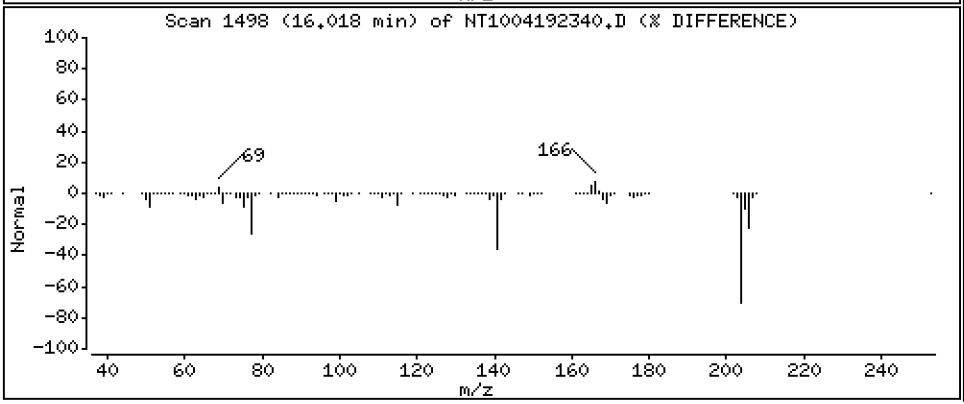












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

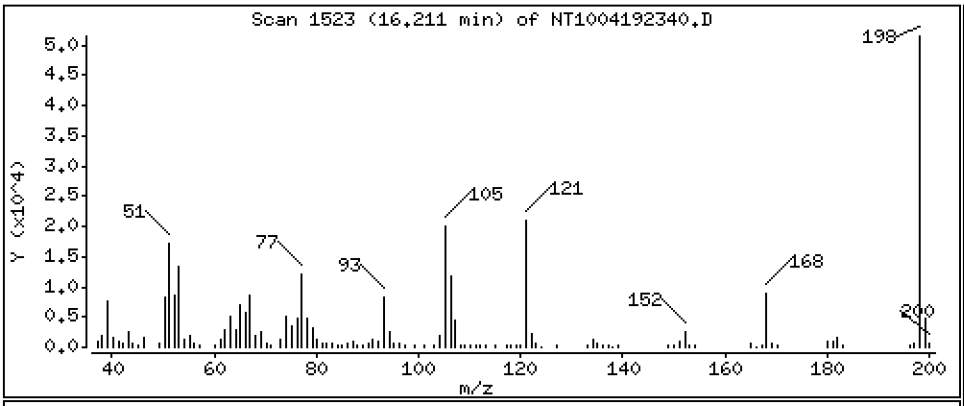
Operator: VTS

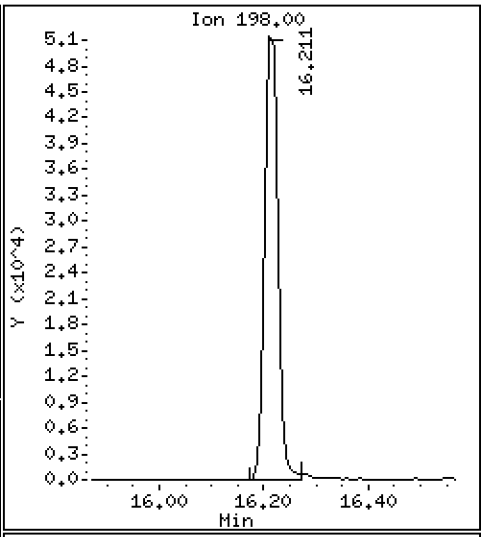
Column phase: ZB-5msi

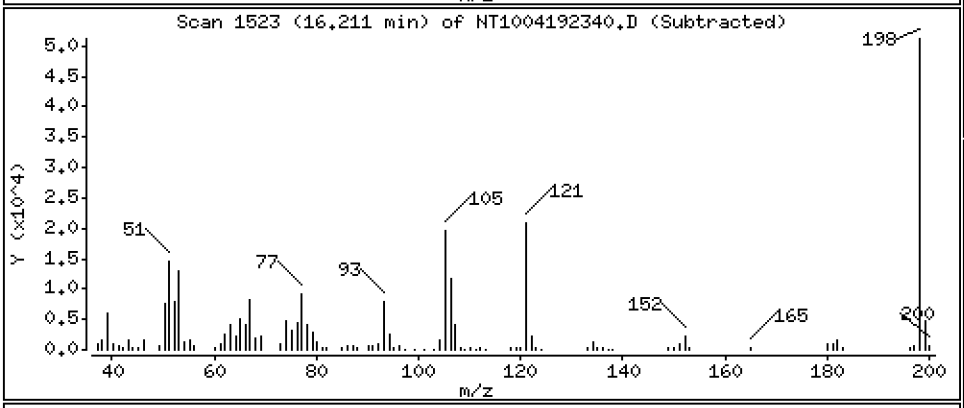
Column diameter: 0.25

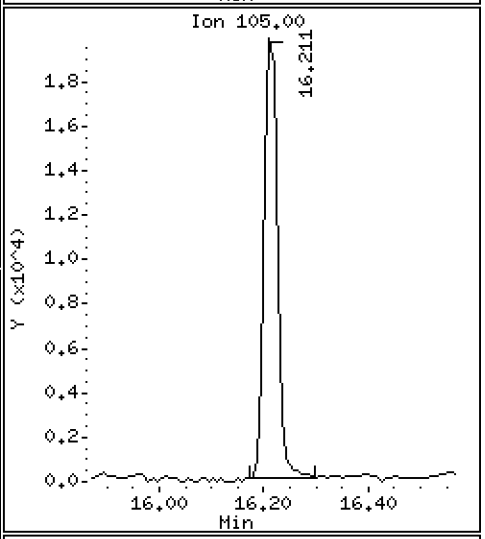
53 4,6-Dinitro-2-methylphenol

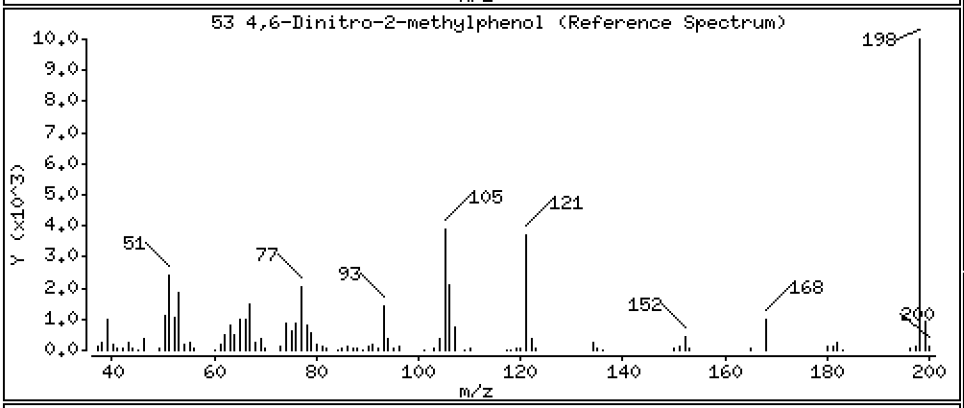
Concentration: 5.454 ug/mL

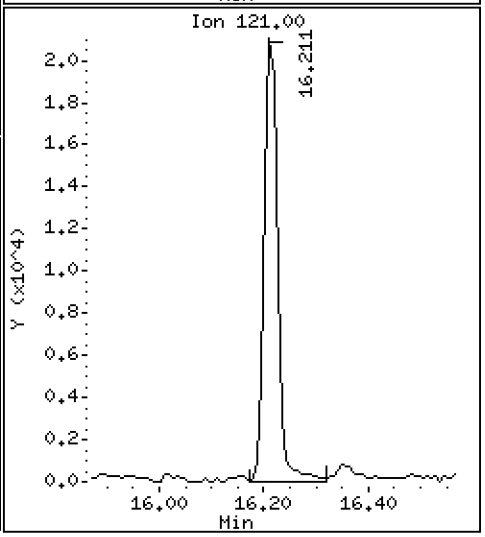


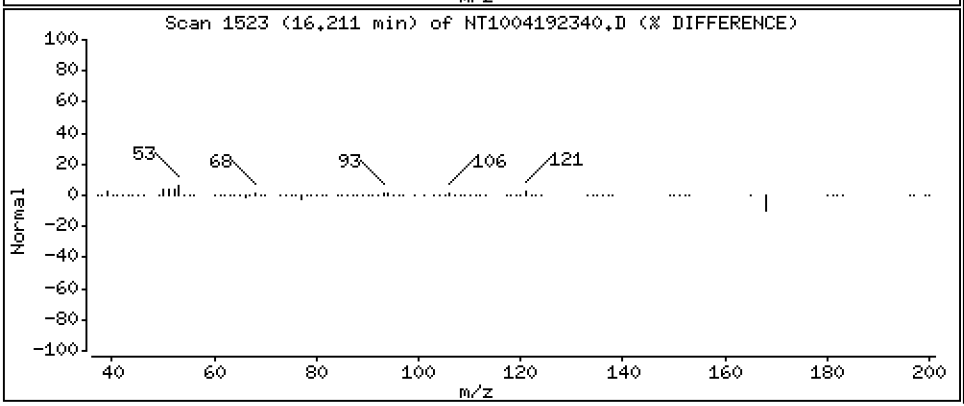












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

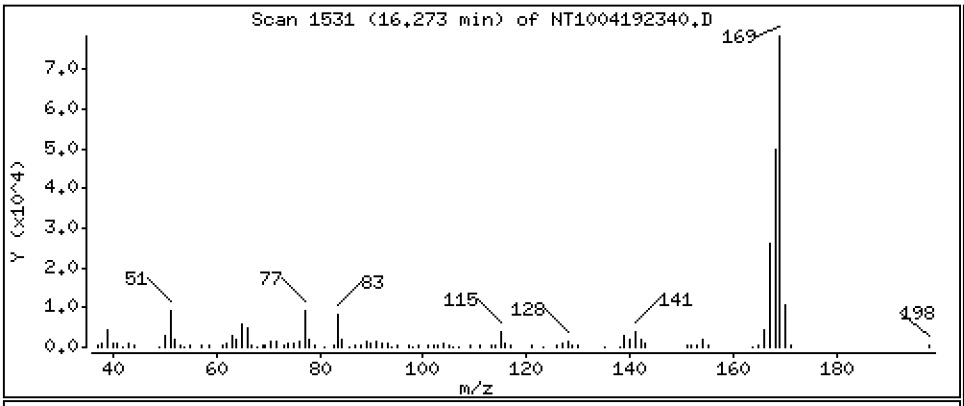
Operator: VTS

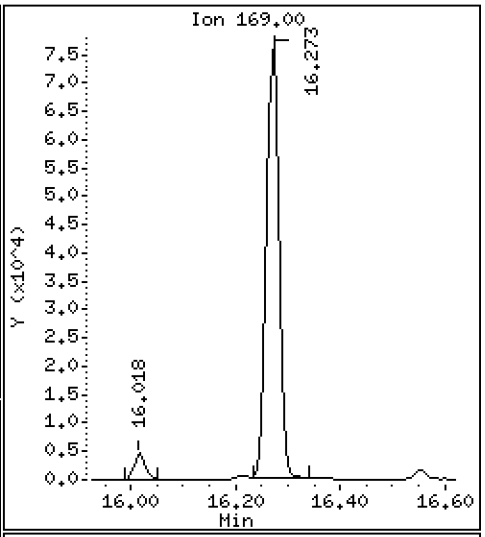
Column phase: ZB-5msi

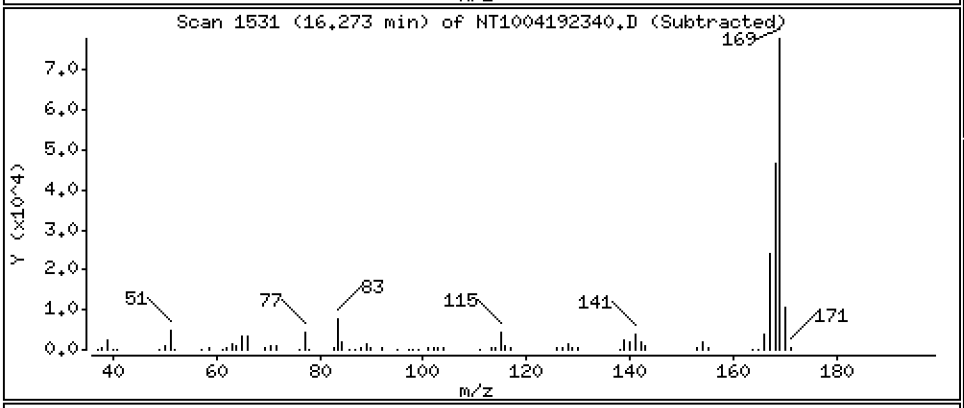
Column diameter: 0.25

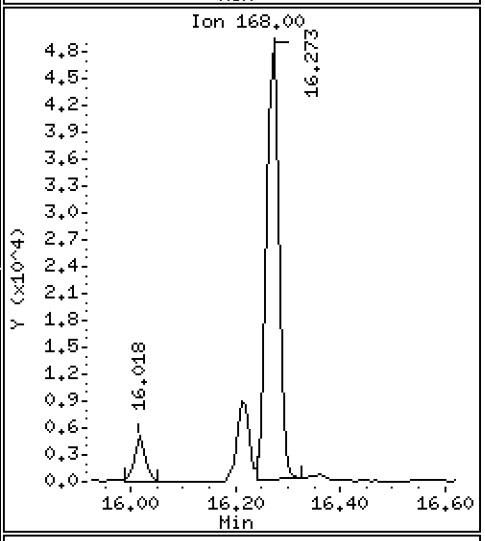
54 N-Nitrosodiphenylamine

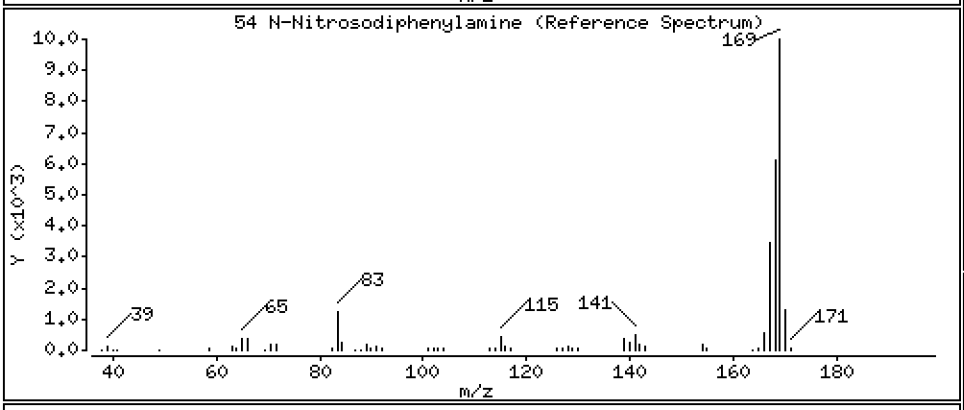
Concentration: 1.740 ug/mL

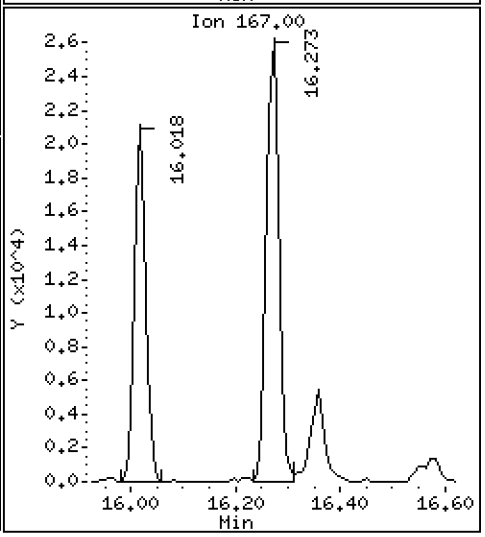


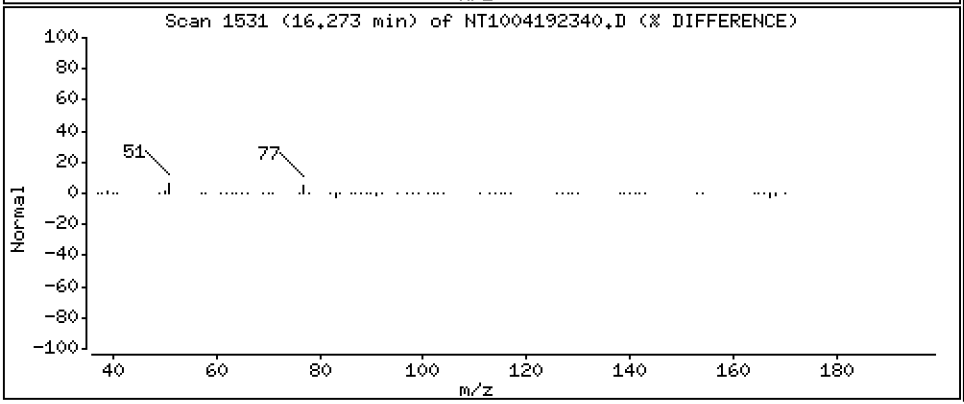












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192340.D

Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

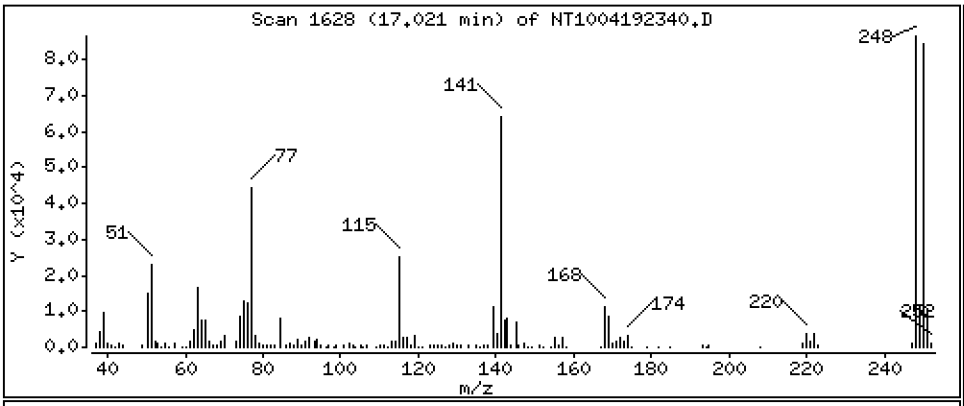
Operator: VTS

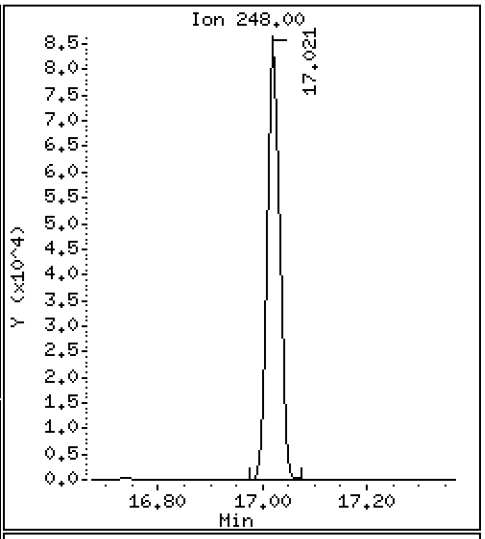
Column phase: ZB-5msi

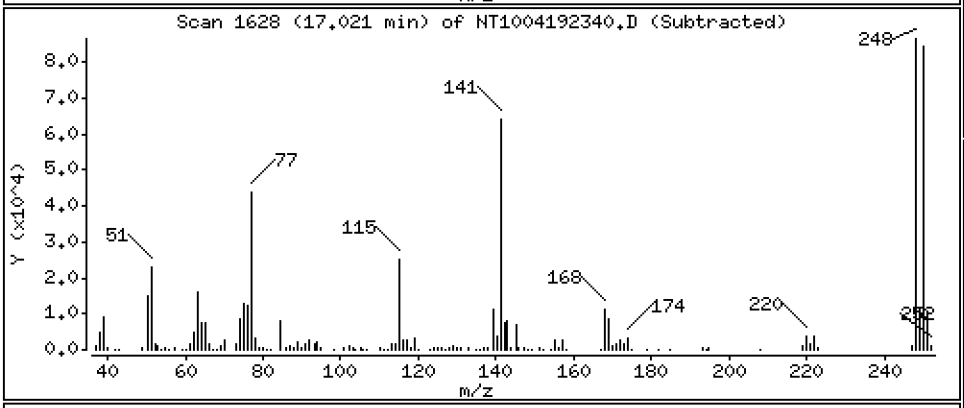
Column diameter: 0.25

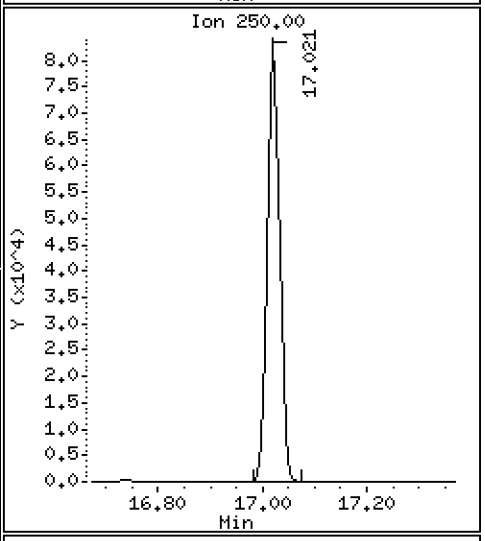
56 4-Bromophenyl-phenylether

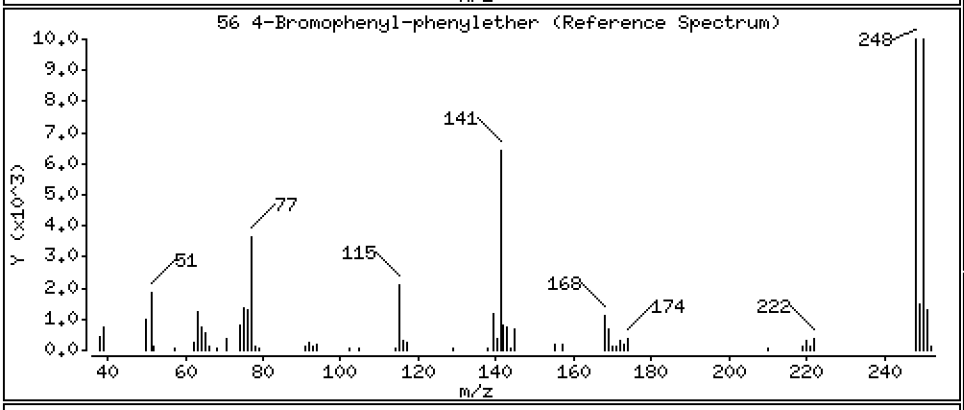
Concentration: 4.745 ug/mL

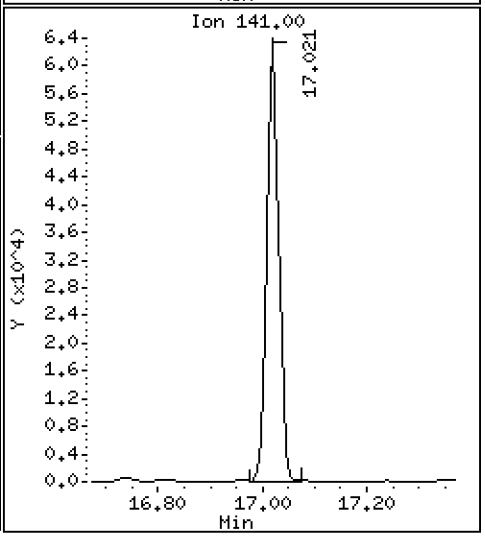


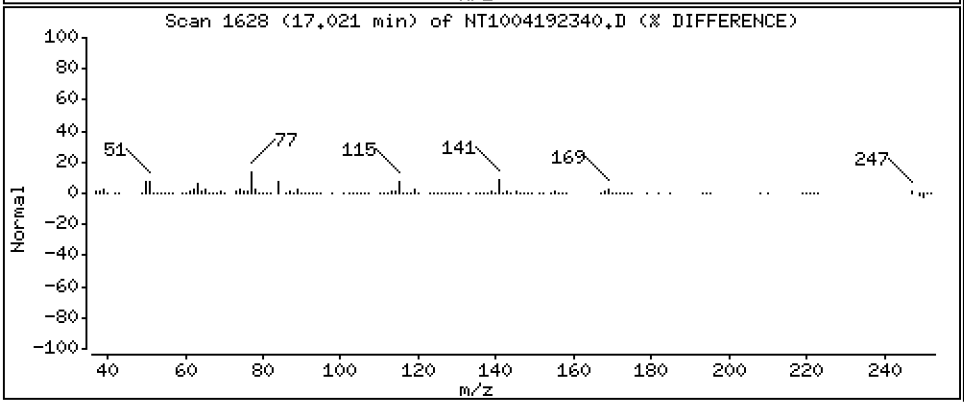












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

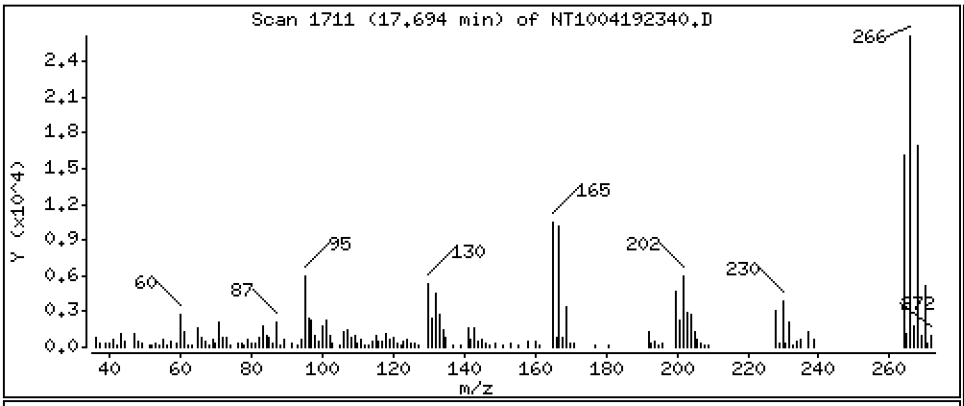
Operator: VTS

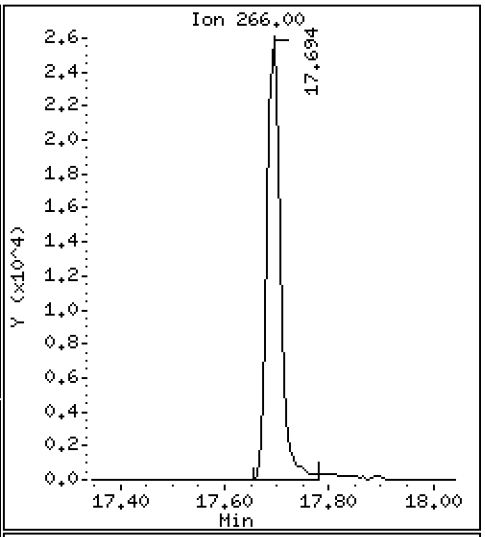
Column phase: ZB-5msi

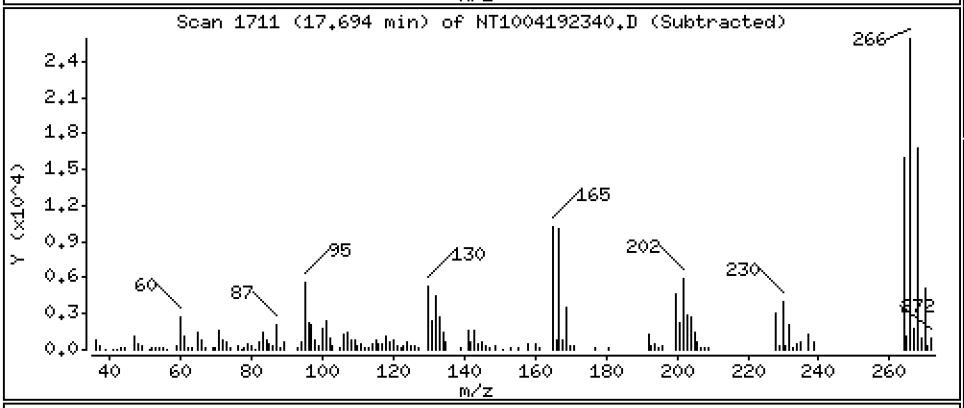
Column diameter: 0.25

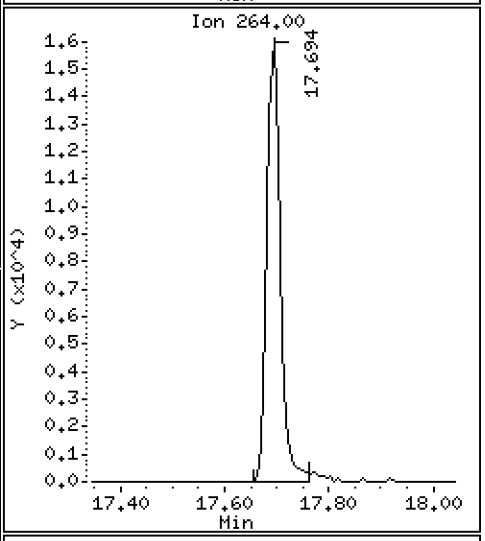
58 Pentachlorophenol

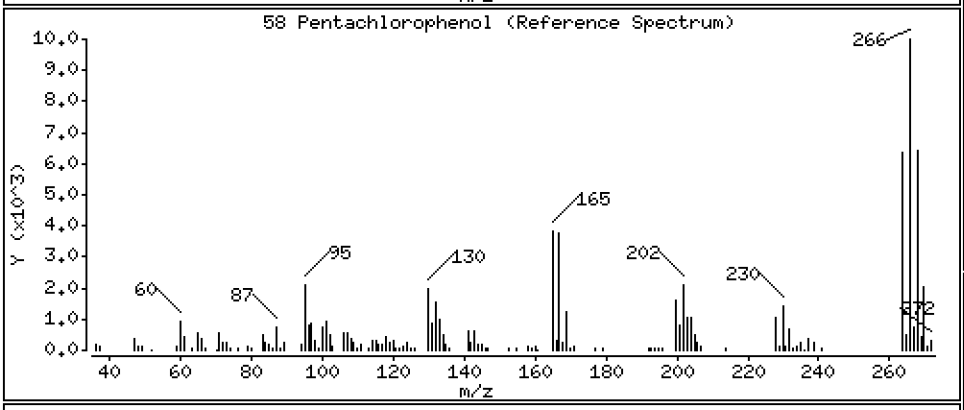
Concentration: 2.482 ug/mL

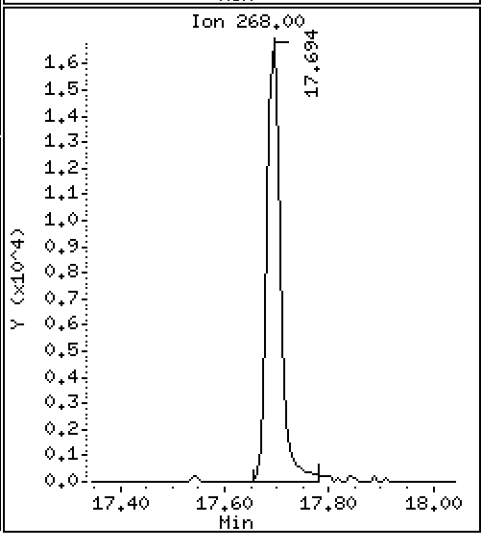


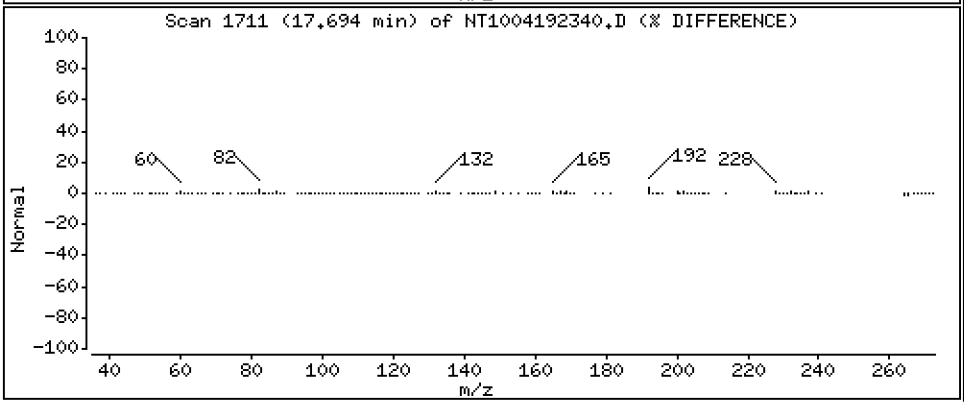












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

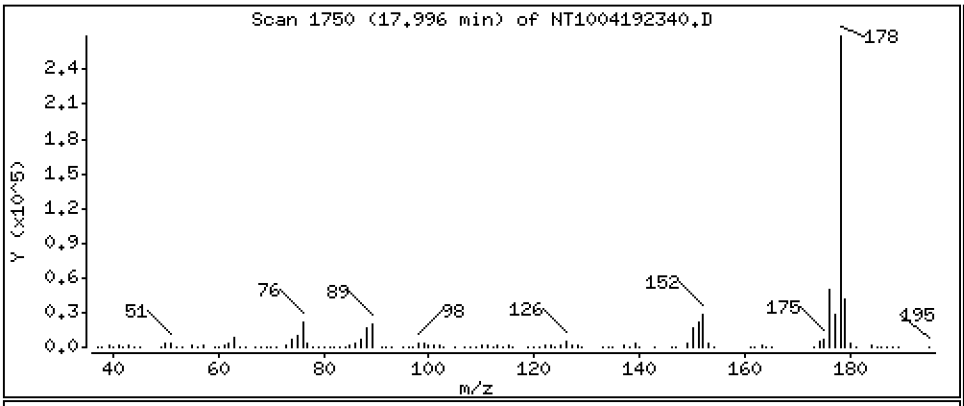
Operator: VTS

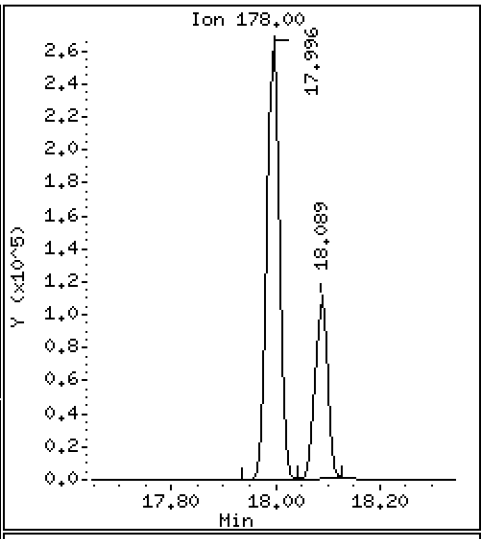
Column phase: ZB-5msi

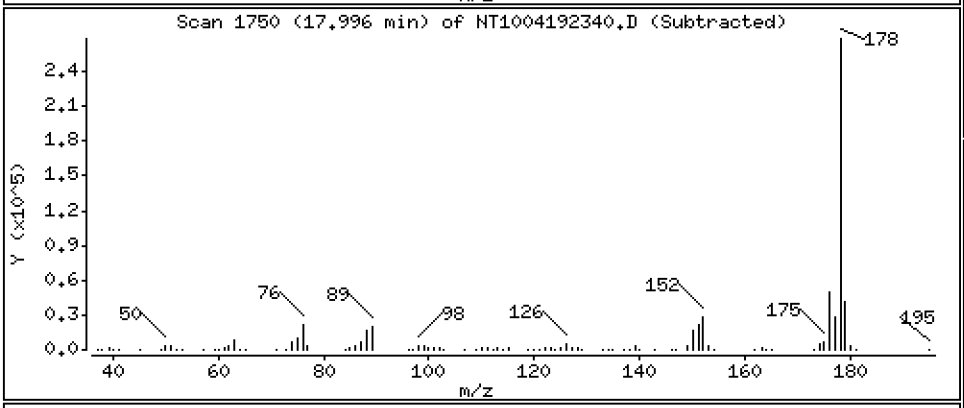
Column diameter: 0.25

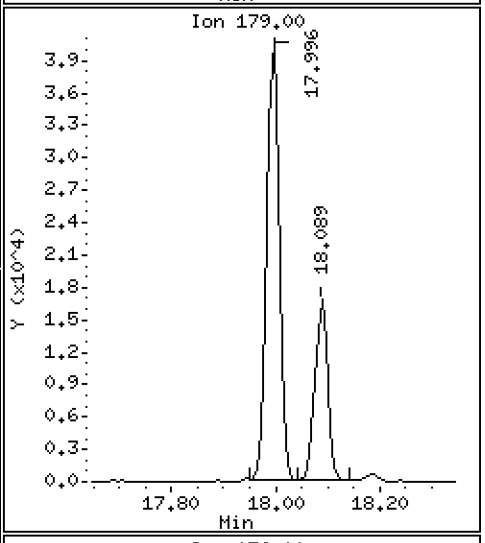
60 Phenanthrene

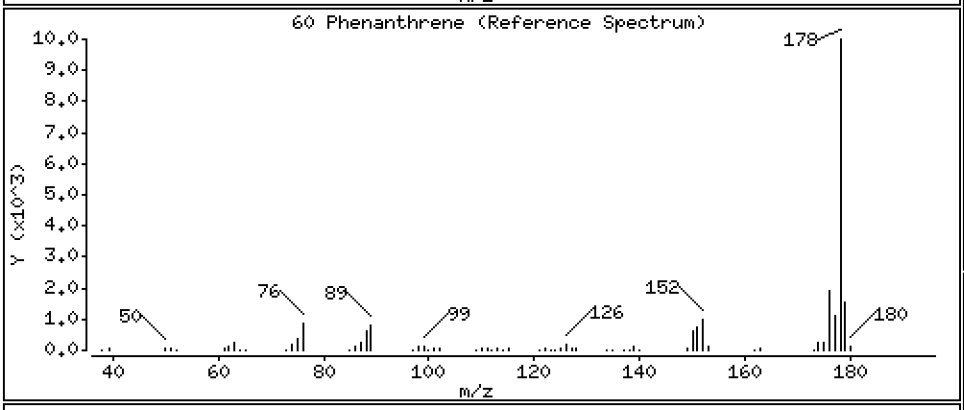
Concentration: 2.967 ug/mL

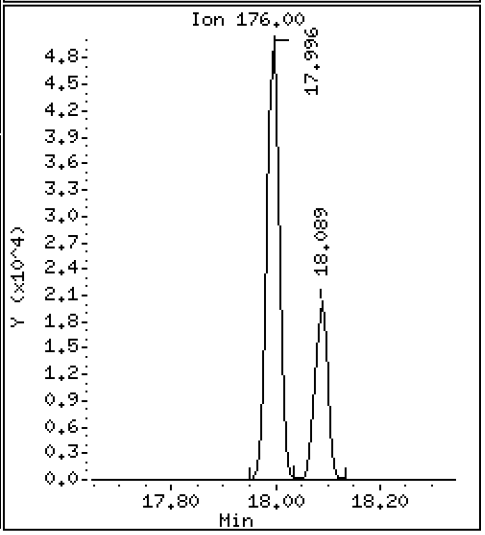


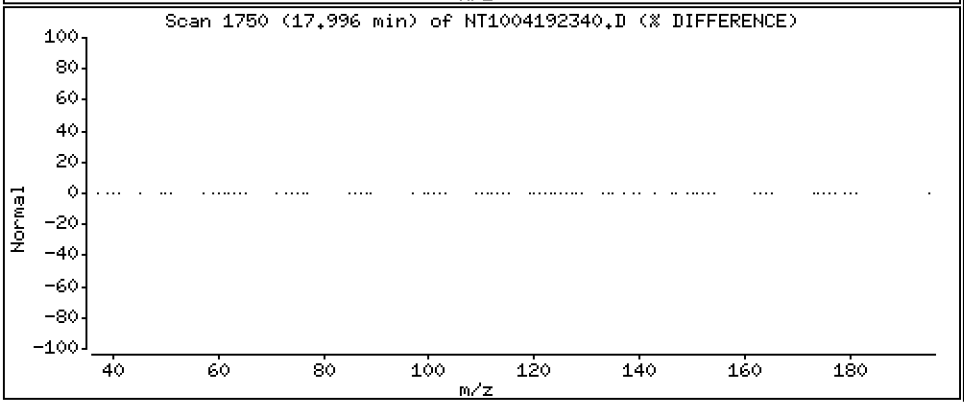












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

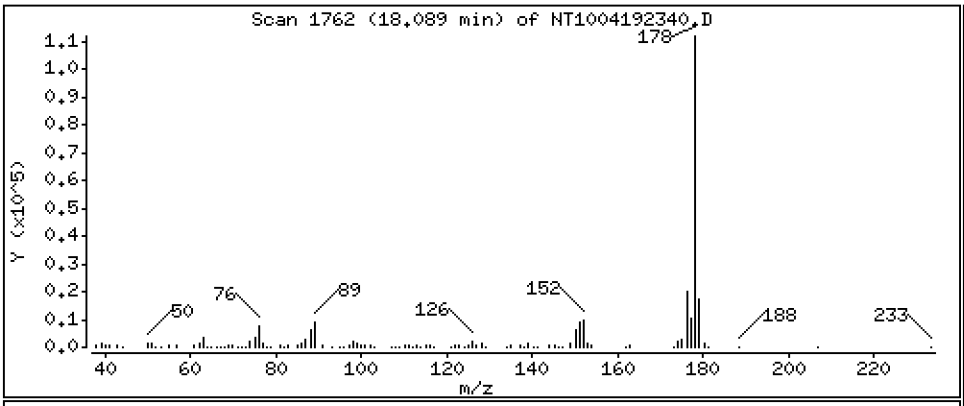
Operator: VTS

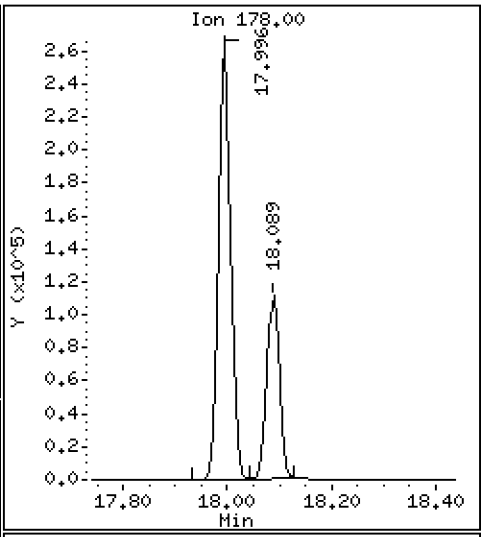
Column phase: ZB-5msi

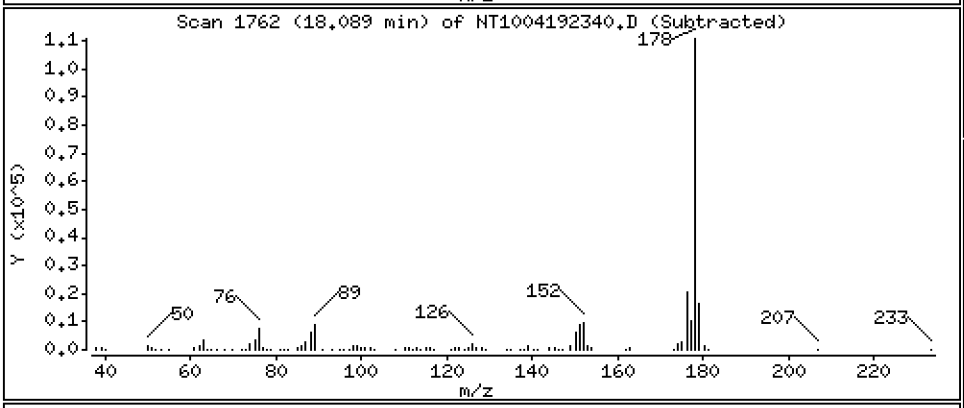
Column diameter: 0.25

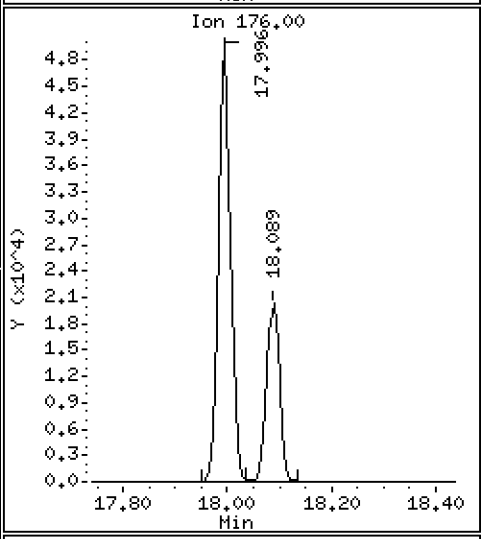
61 Anthracene

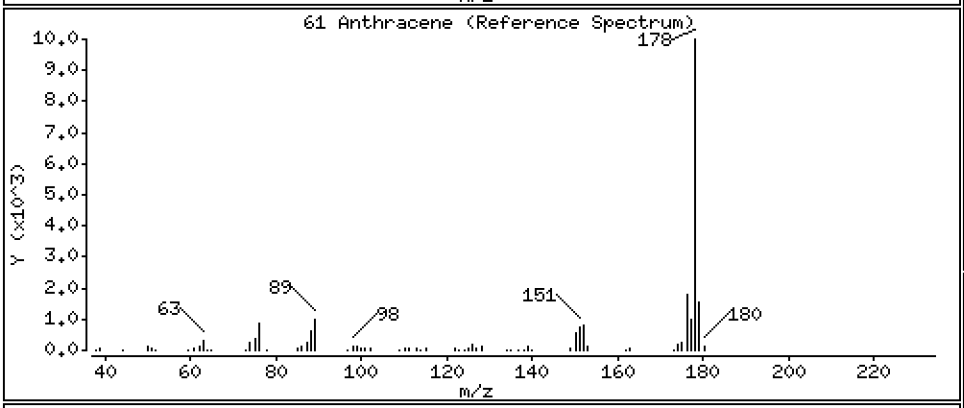
Concentration: 1.315 ug/mL

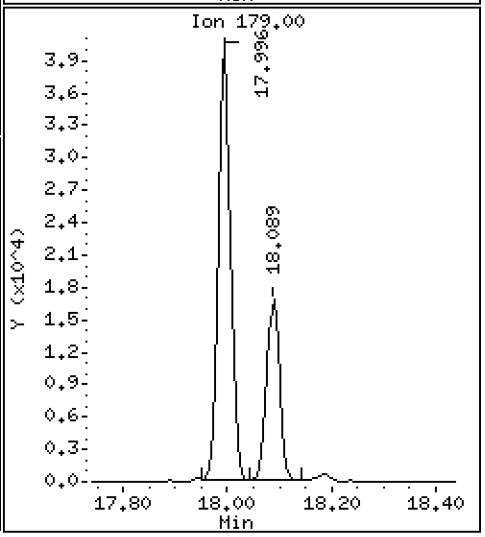


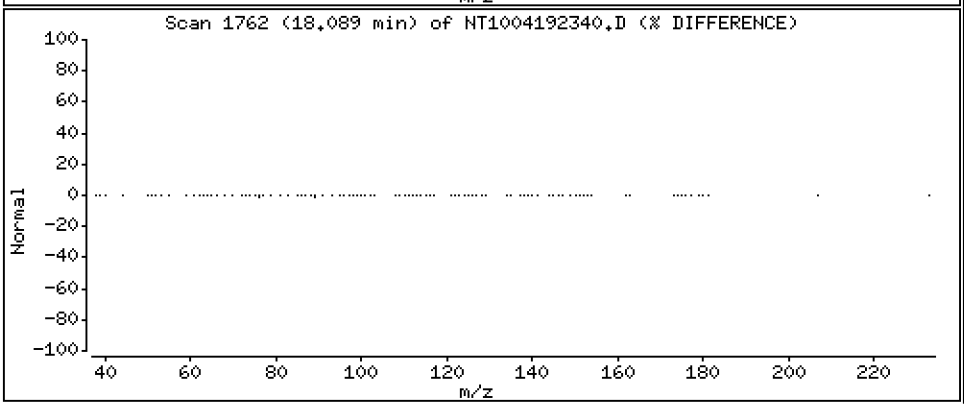












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

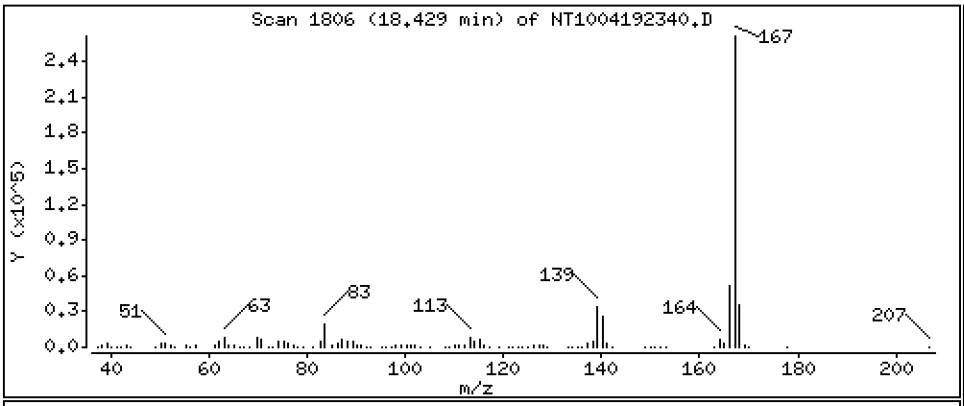
Operator: VTS

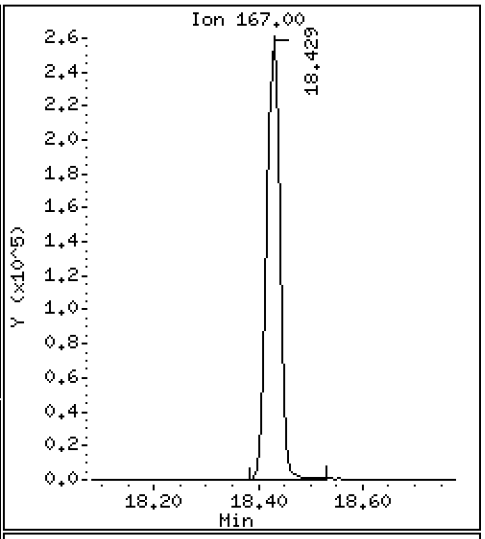
Column phase: ZB-5msi

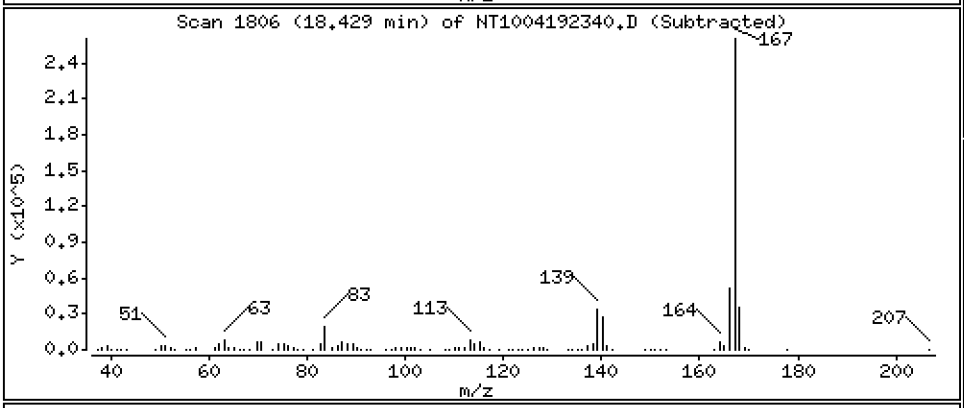
Column diameter: 0.25

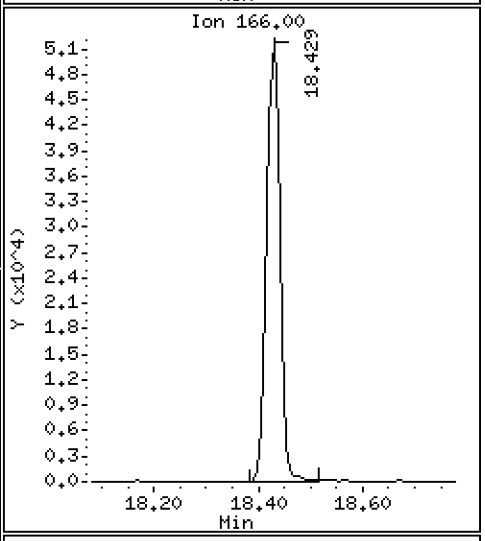
62 Carbazole

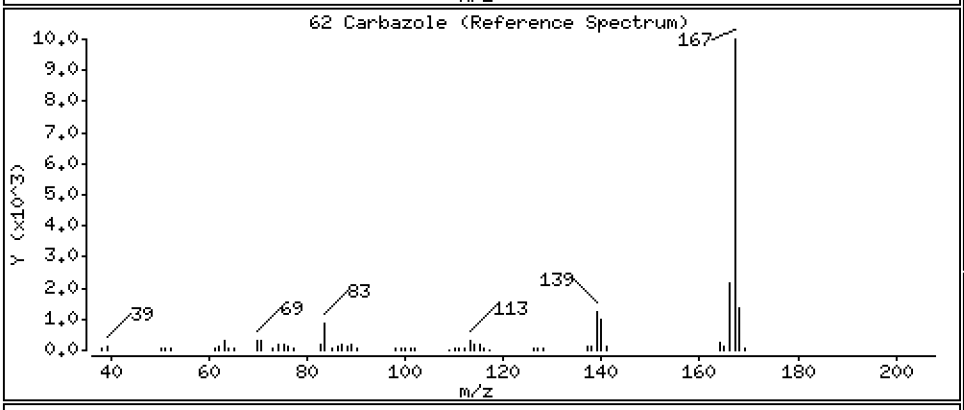
Concentration: 3.599 ug/mL

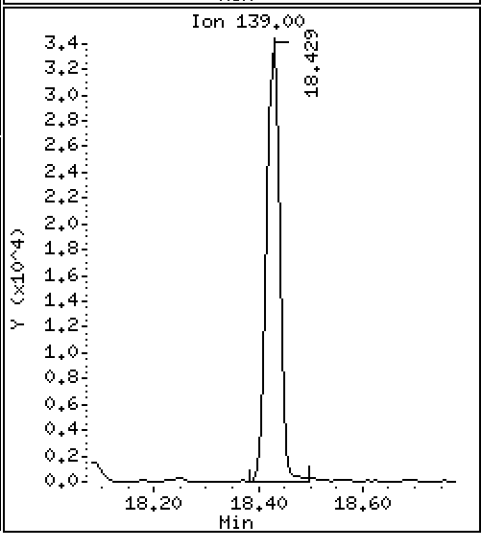


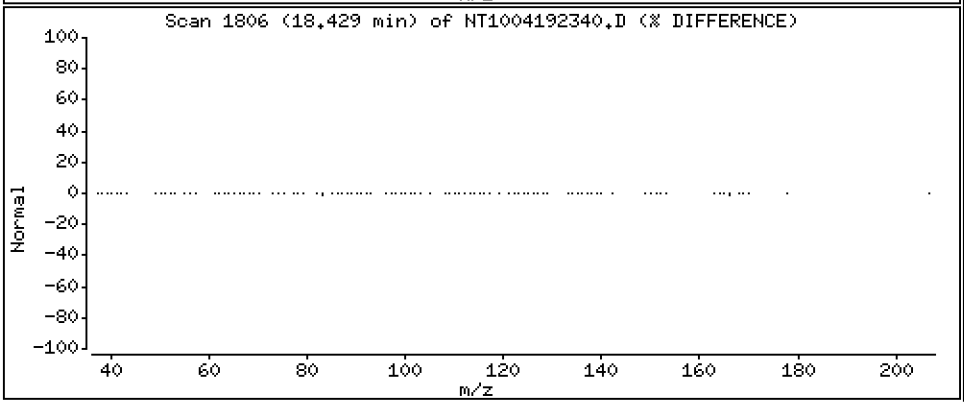












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

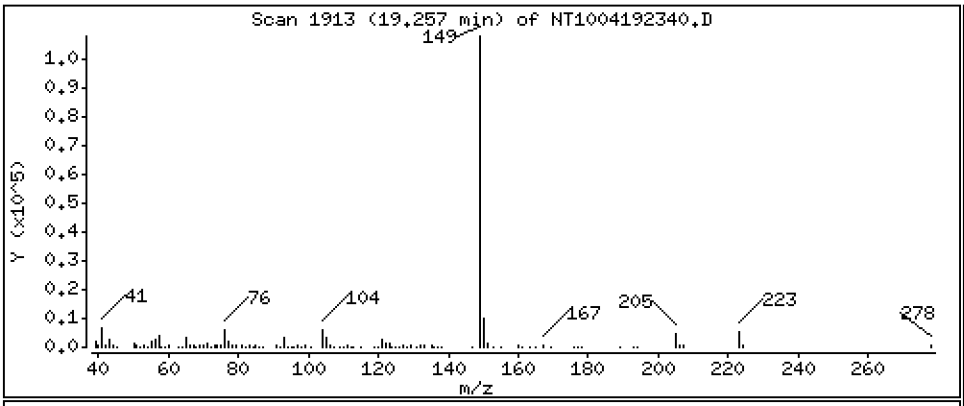
Operator: VTS

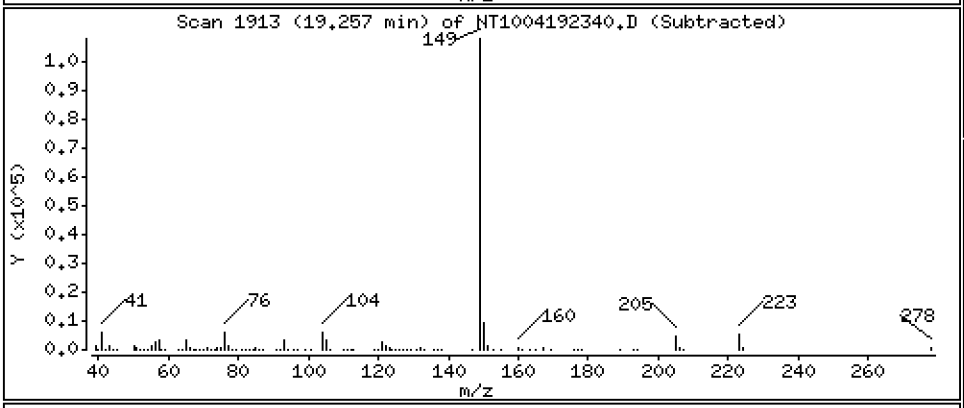
Column phase: ZB-5msi

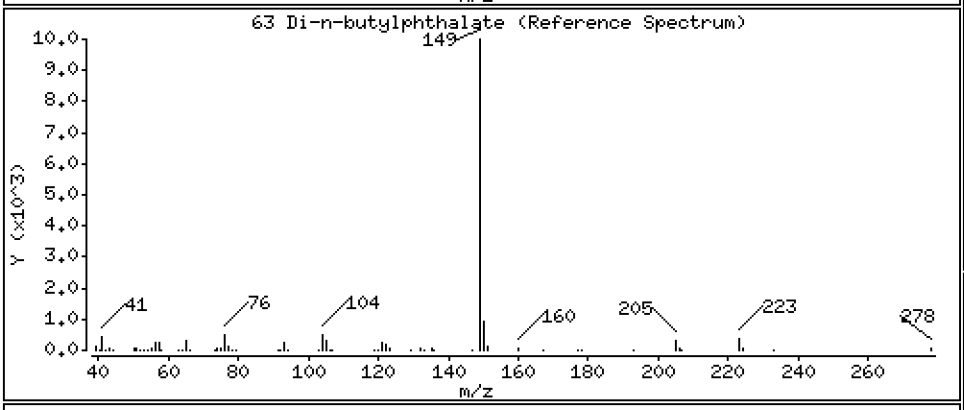
Column diameter: 0.25

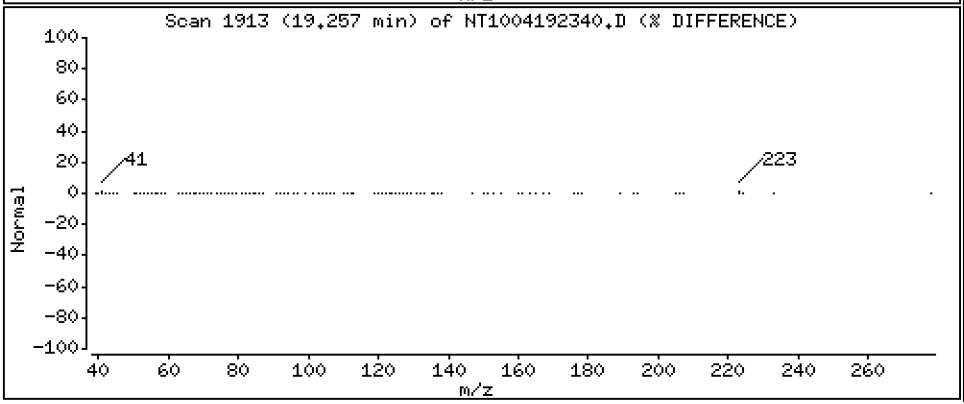
63 Di-n-butylphthalate

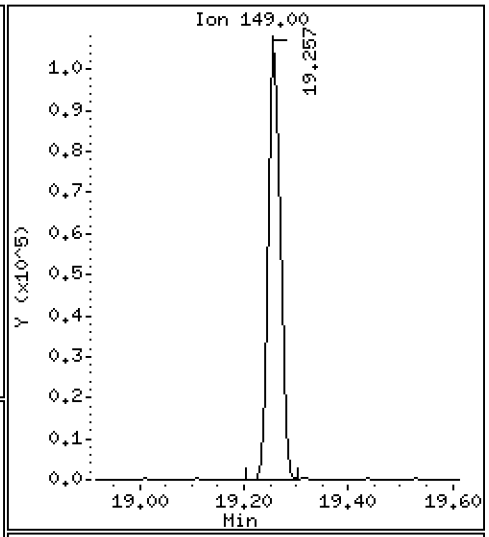
Concentration: 1.017 ug/mL

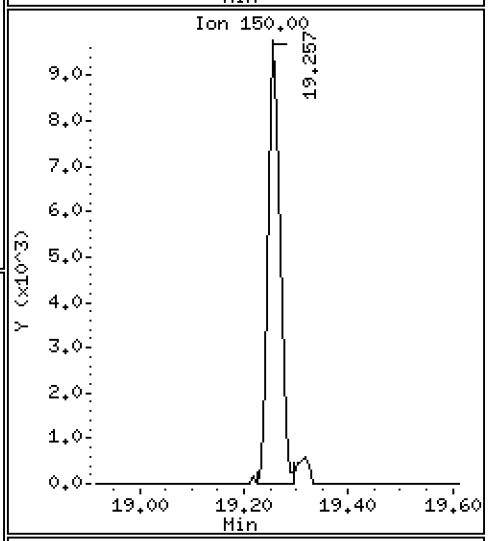


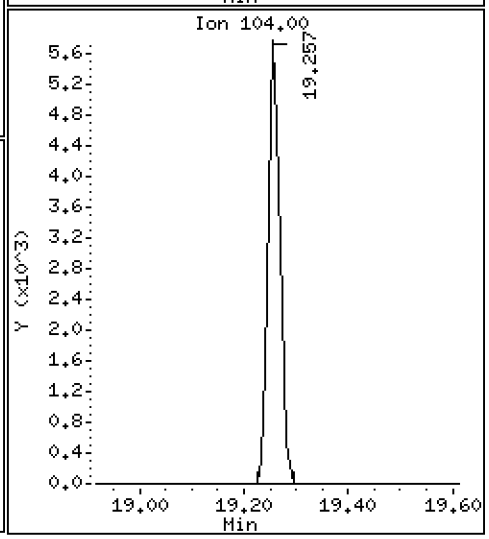












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

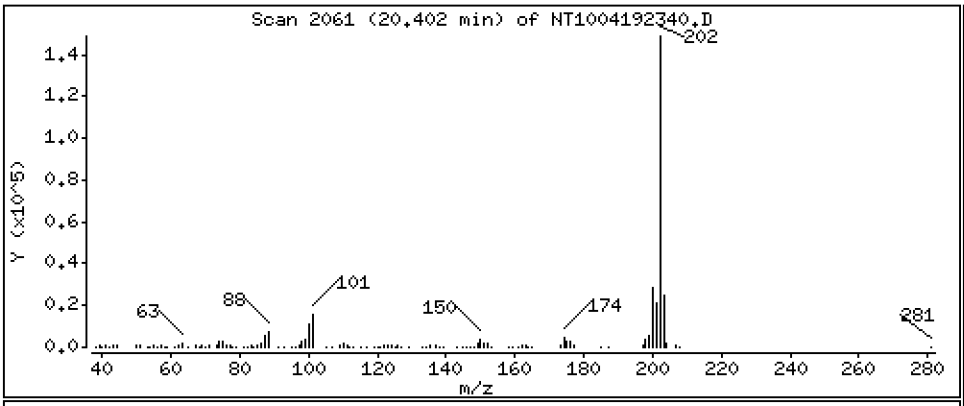
Operator: VTS

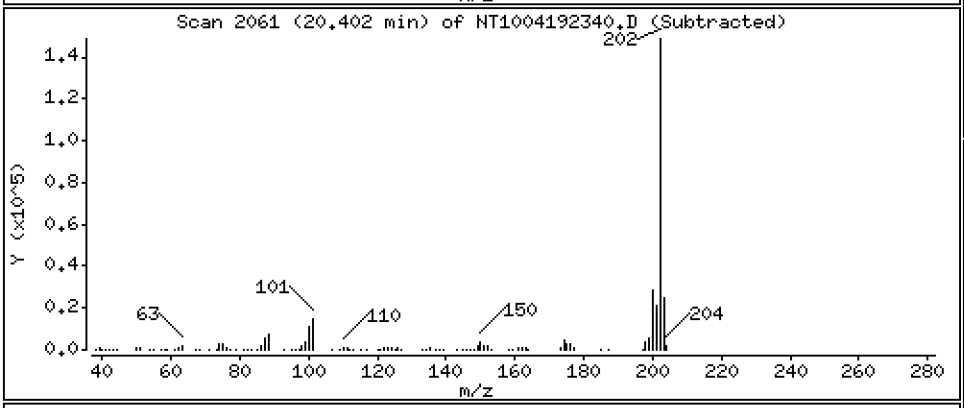
Column phase: ZB-5msi

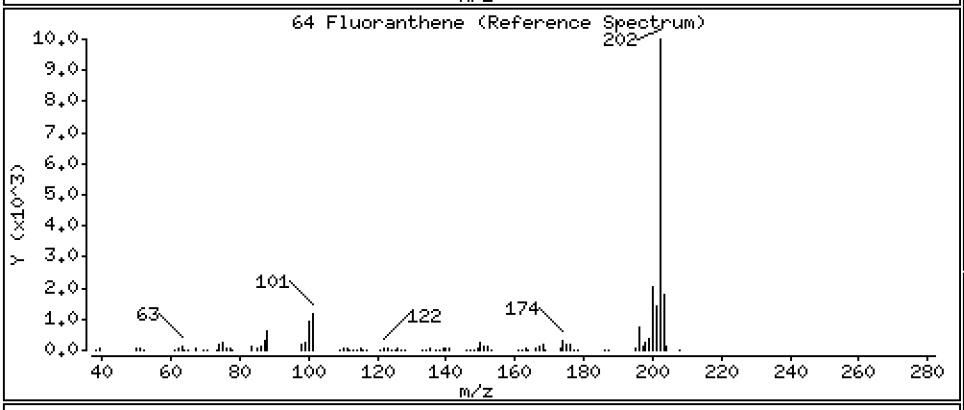
Column diameter: 0.25

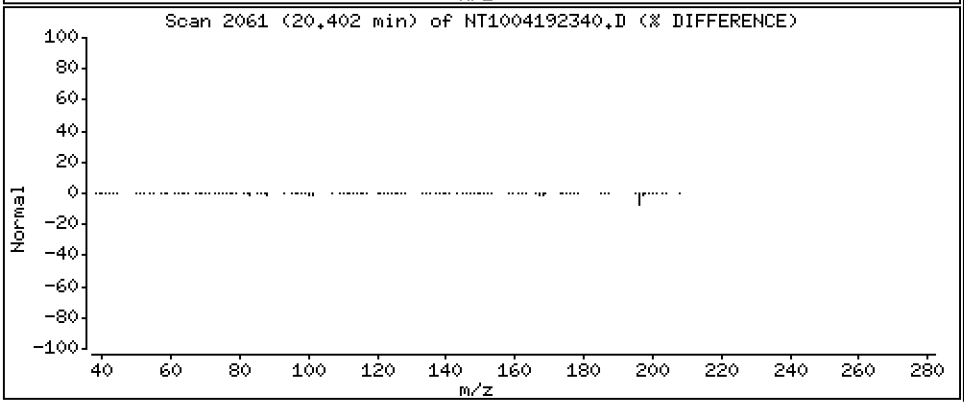
64 Fluoranthene

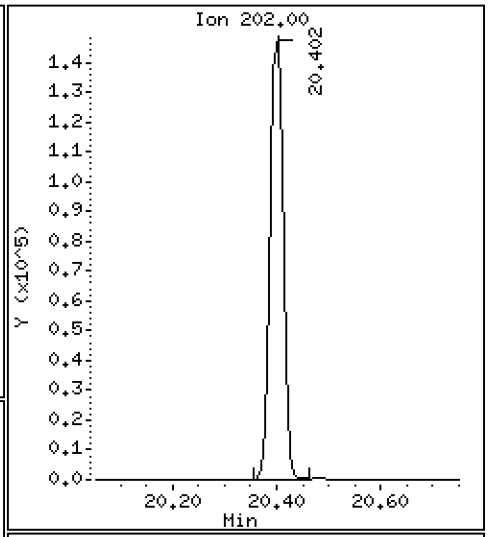
Concentration: 1.280 ug/mL

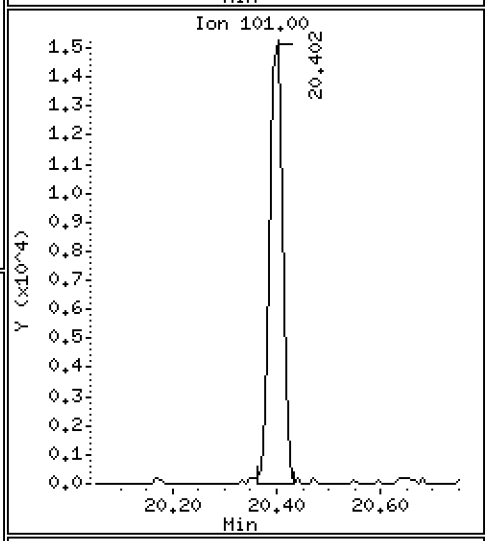


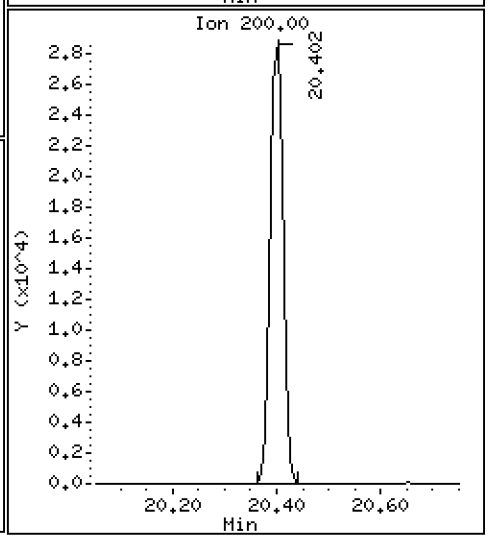












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192340.D

Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

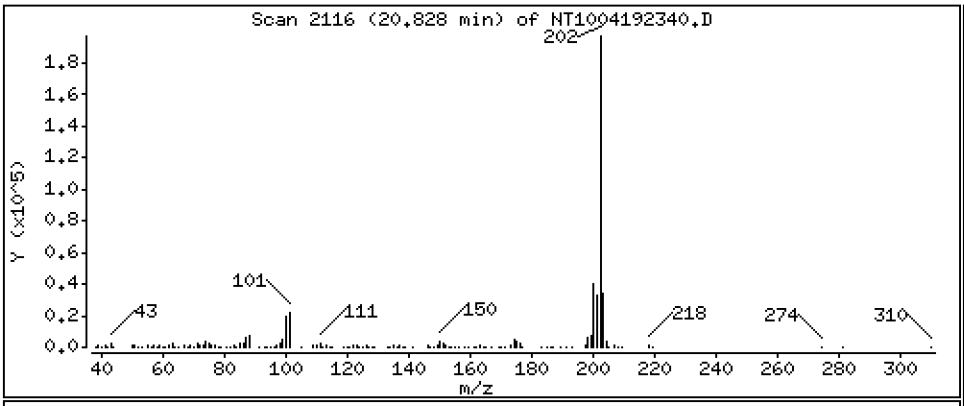
Operator: VTS

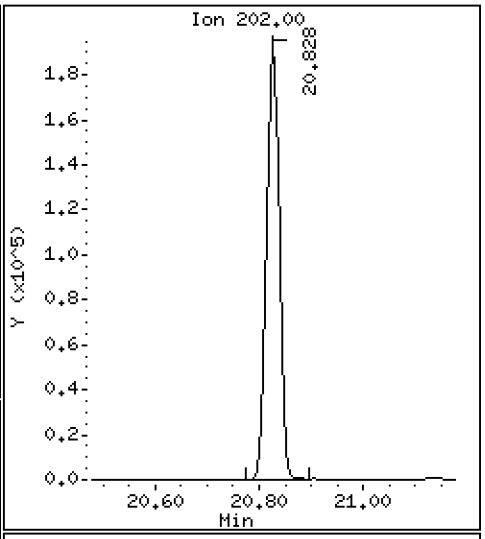
Column phase: ZB-5msi

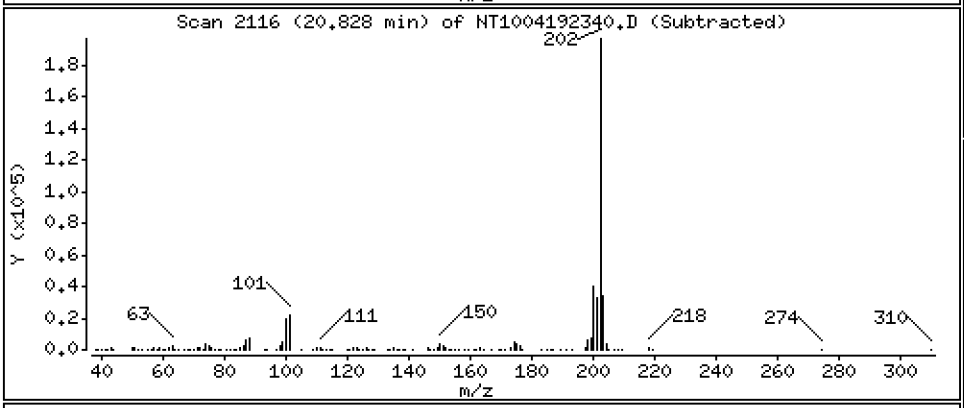
Column diameter: 0.25

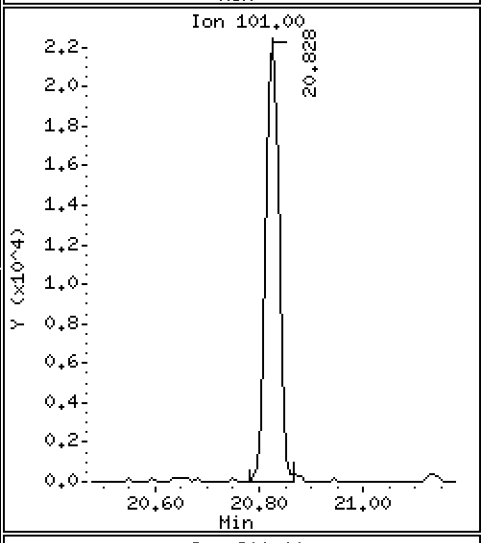
65 Pyrene

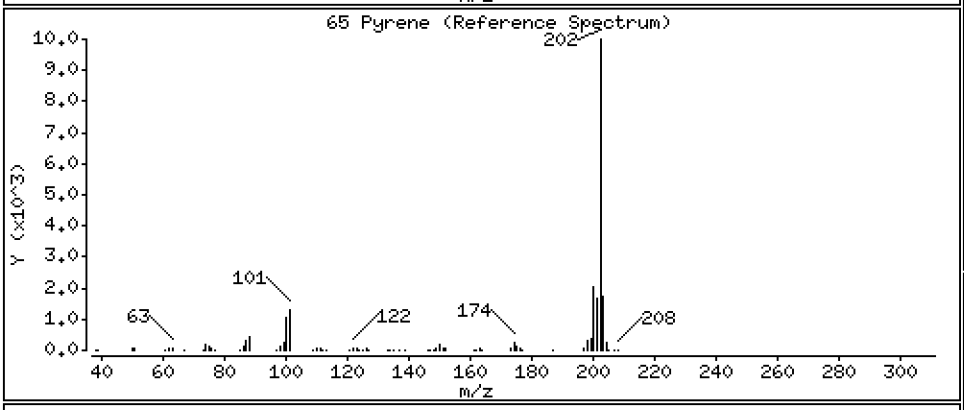
Concentration: 1.589 ug/mL

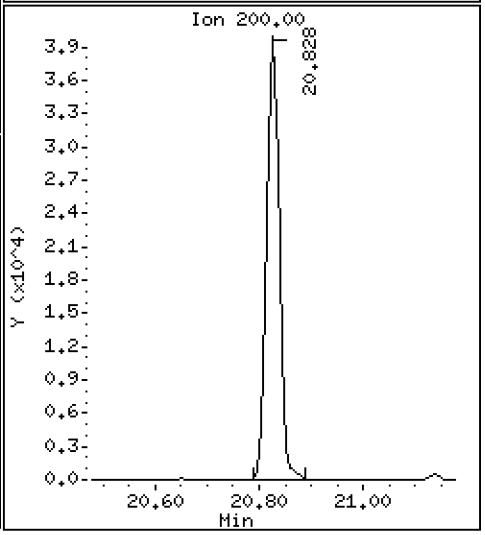


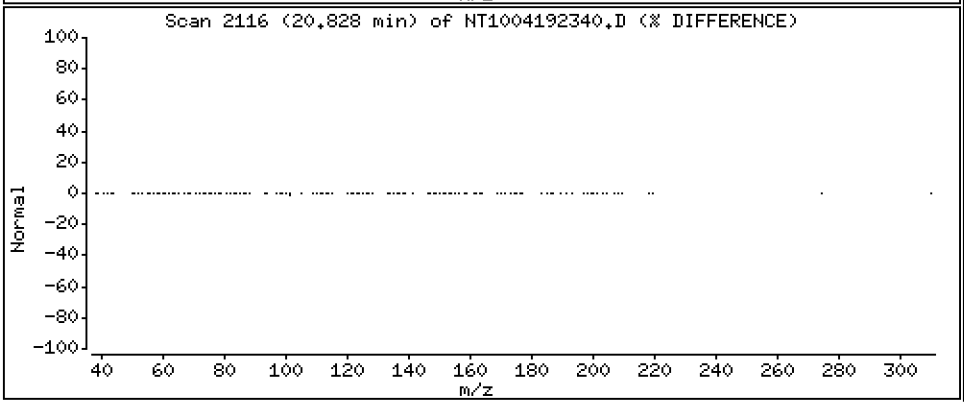












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

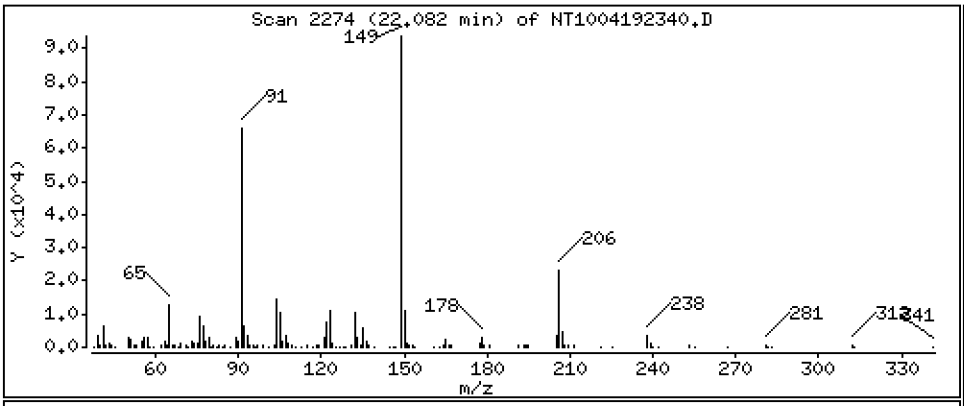
Operator: VTS

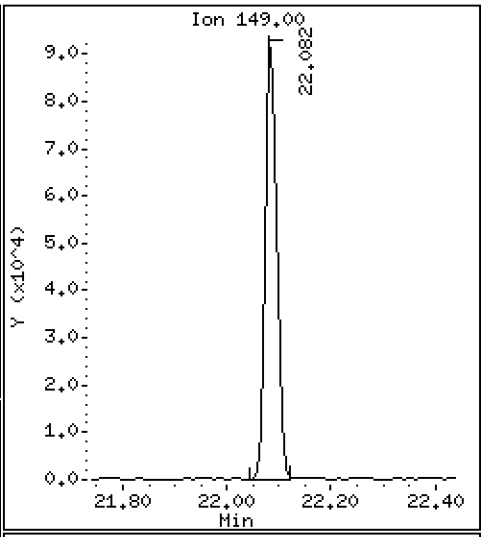
Column phase: ZB-5msi

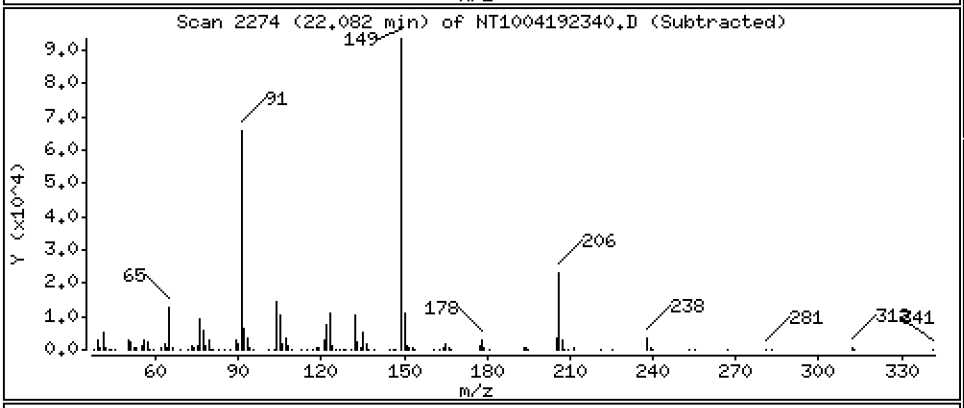
Column diameter: 0.25

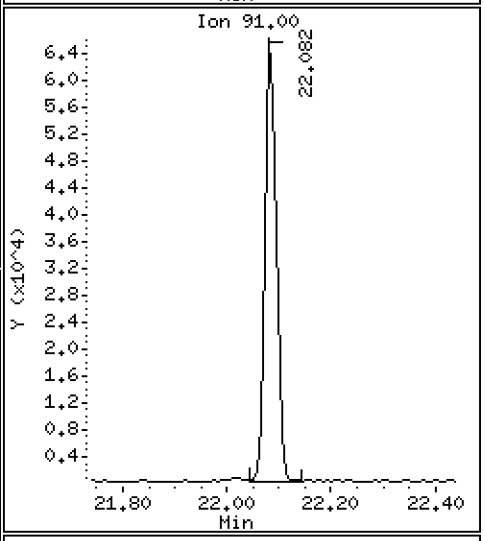
67 Butylbenzylphthalate

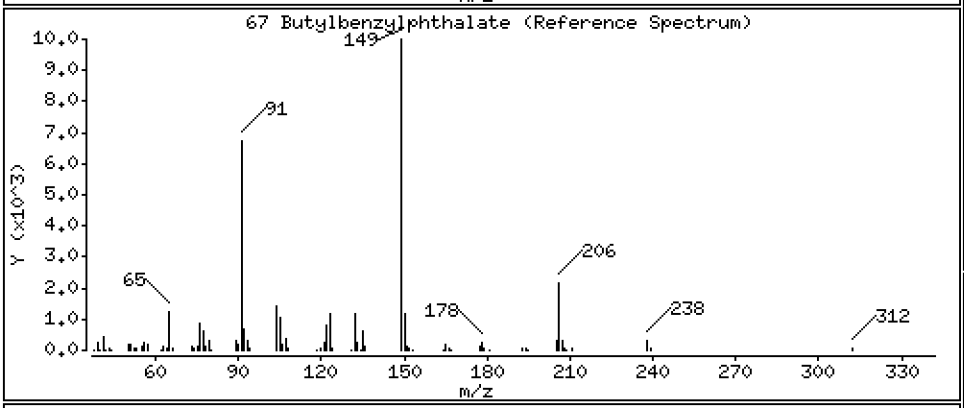
Concentration: 1.949 ug/mL

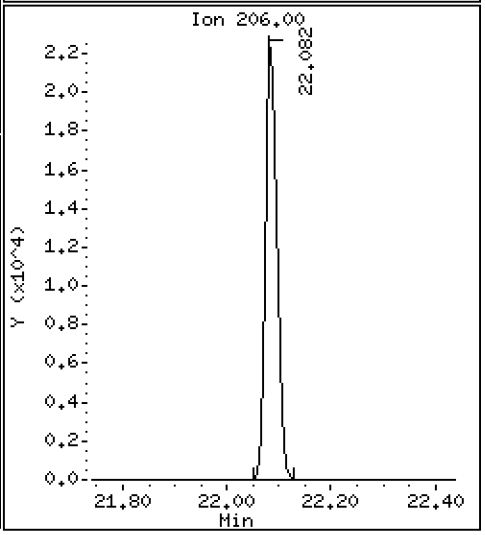


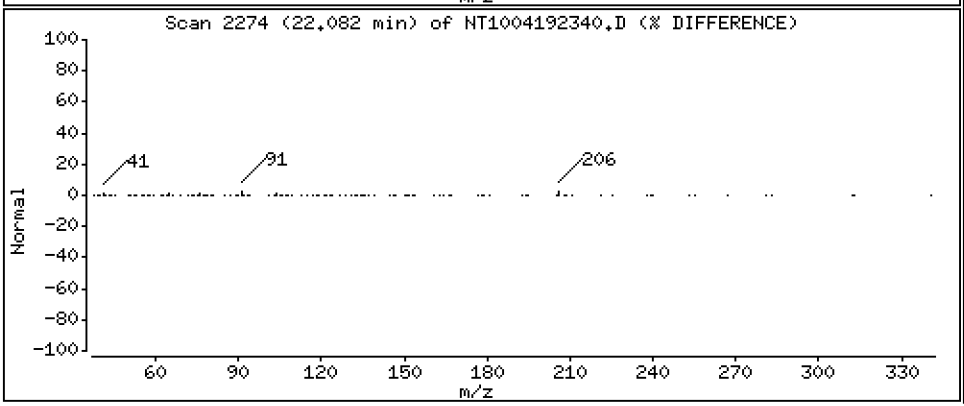












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

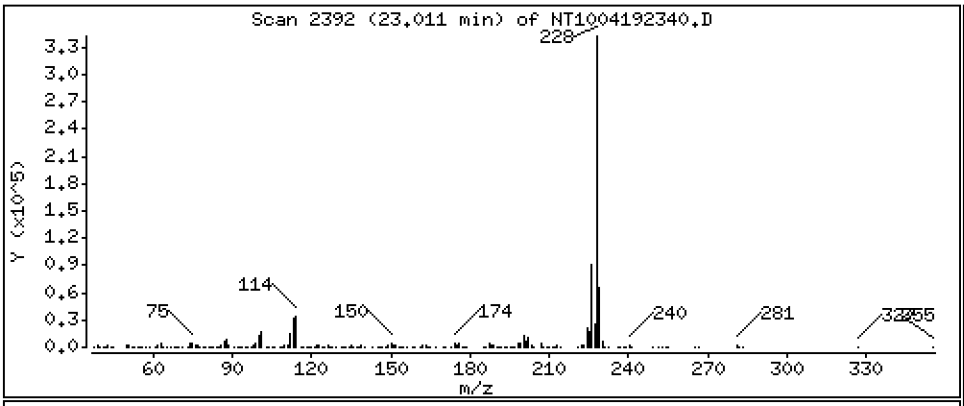
Operator: VTS

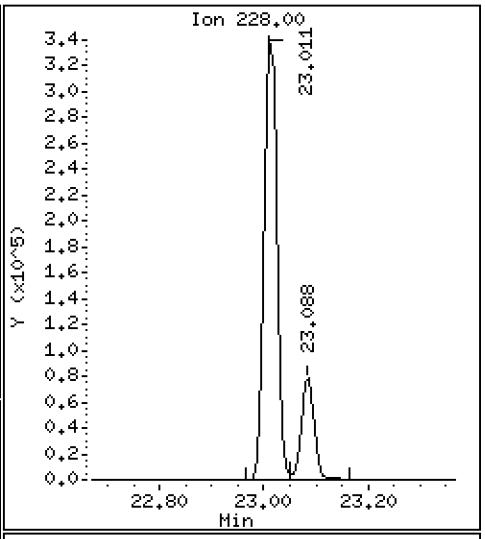
Column phase: ZB-5msi

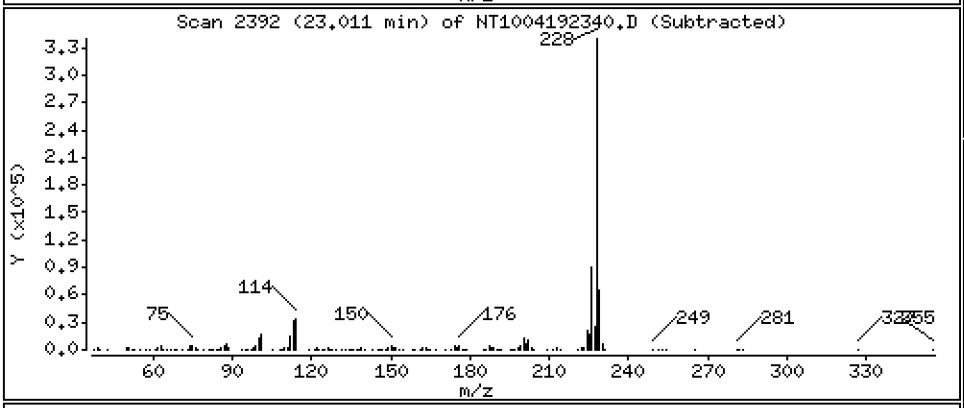
Column diameter: 0.25

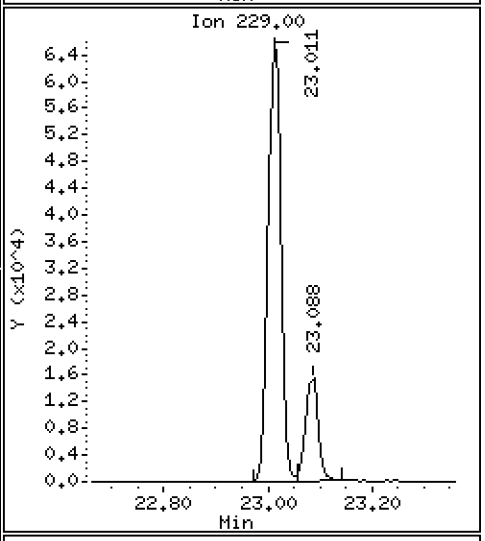
68 Benzo(a)anthracene

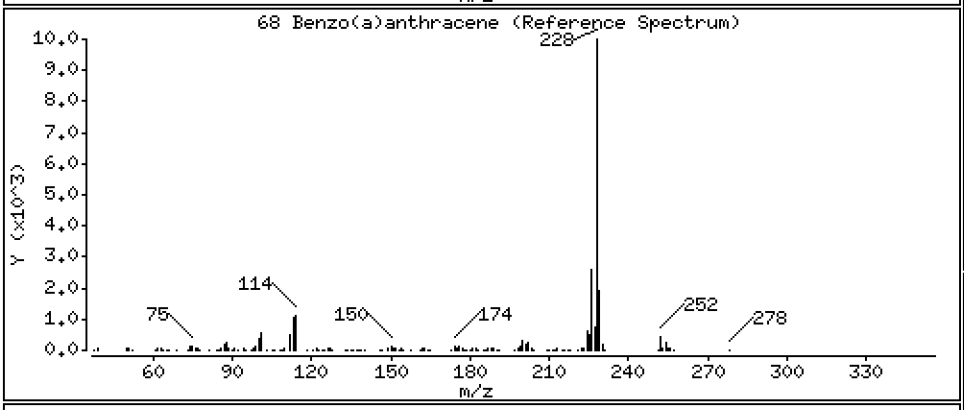
Concentration: 3.249 ug/mL

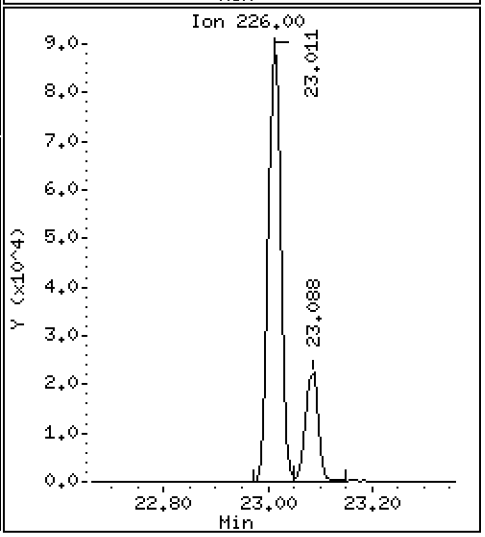


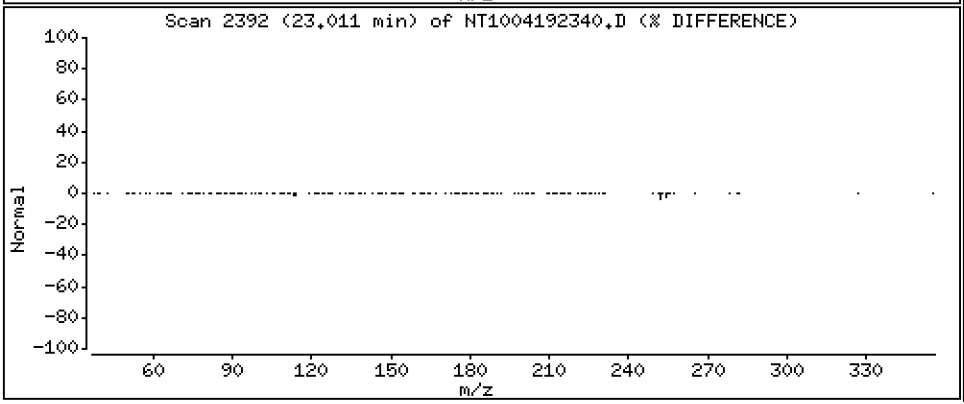












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

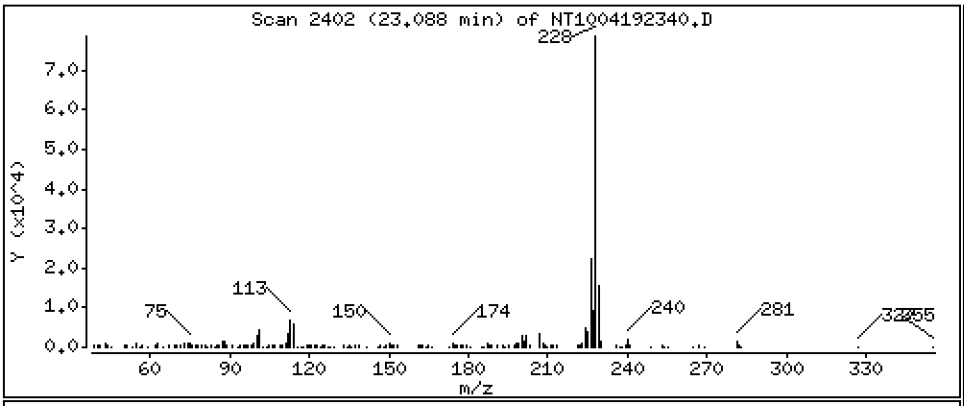
Operator: VTS

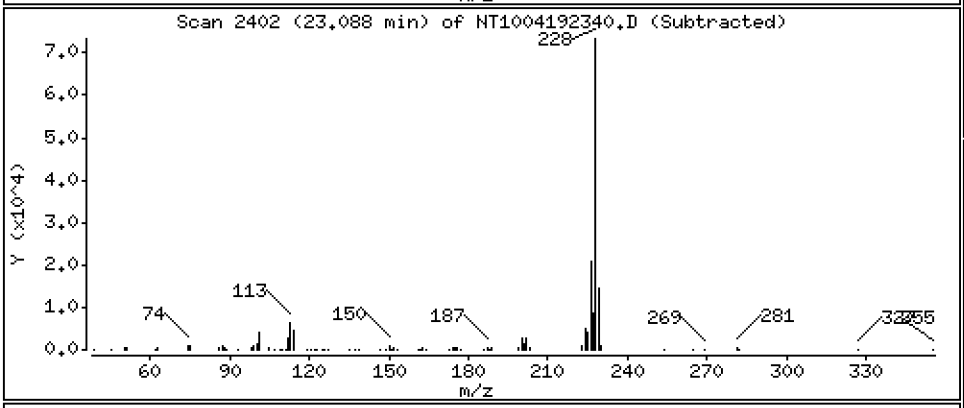
Column phase: ZB-5msi

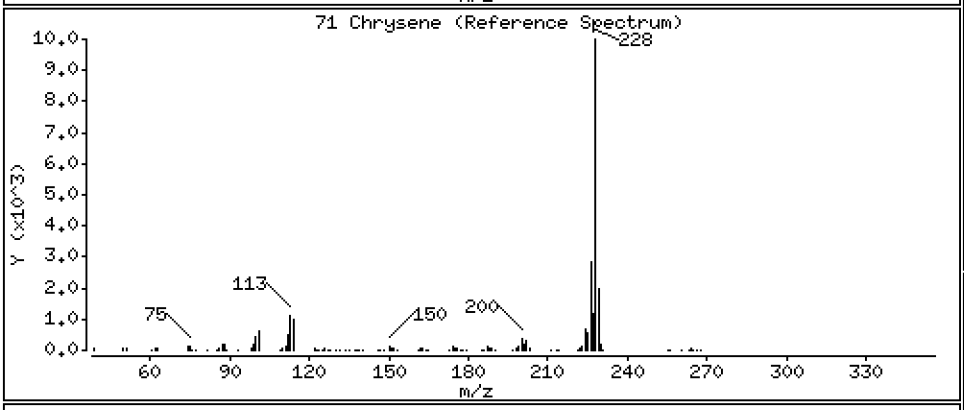
Column diameter: 0.25

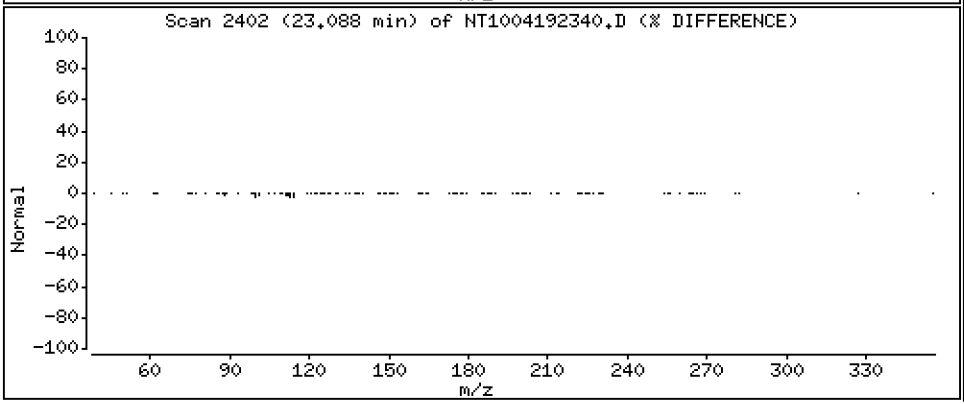
71 Chrysene

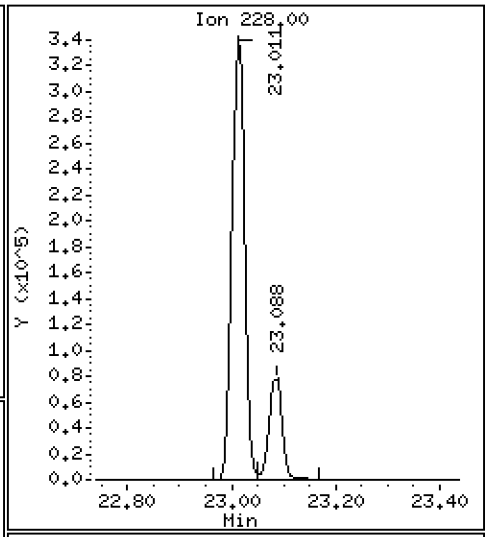
Concentration: 0.7776 ug/mL

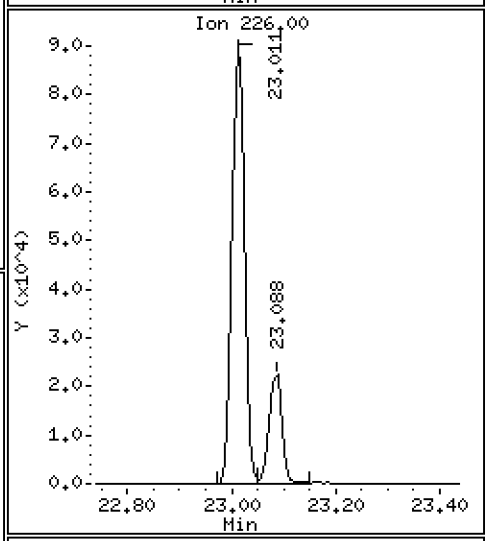


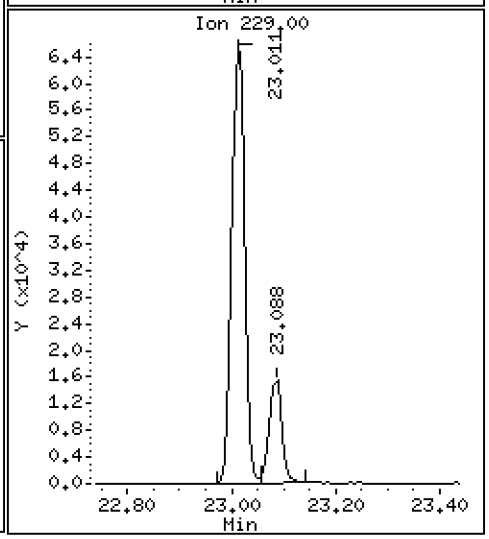












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

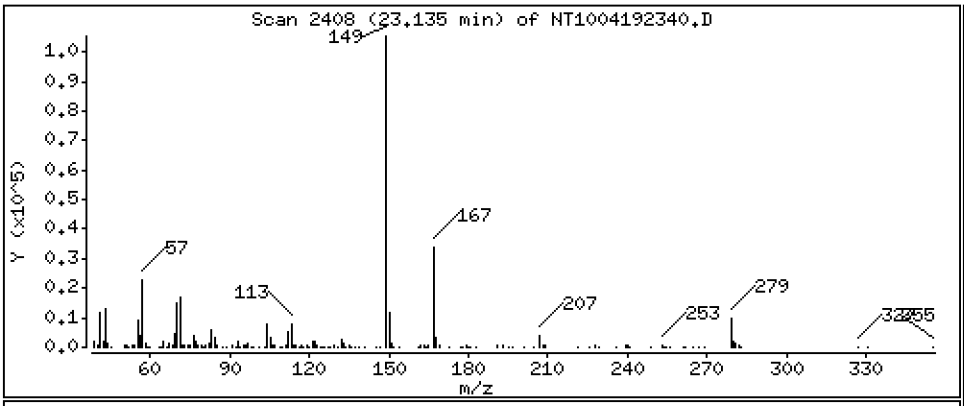
Operator: VTS

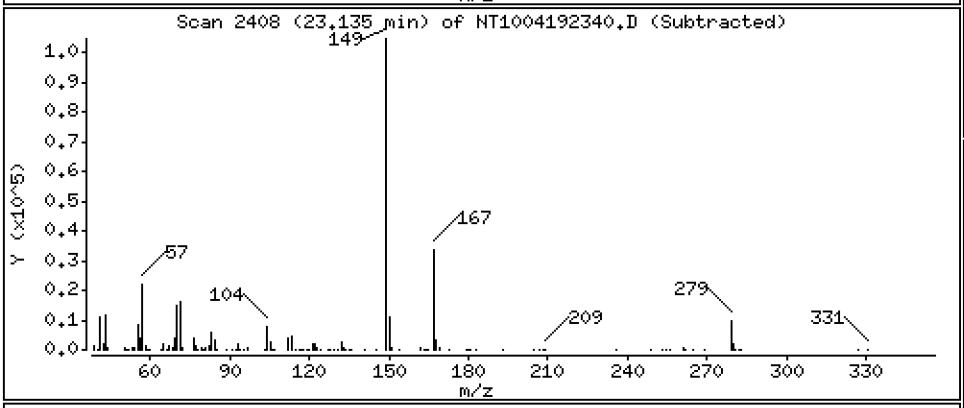
Column phase: ZB-5msi

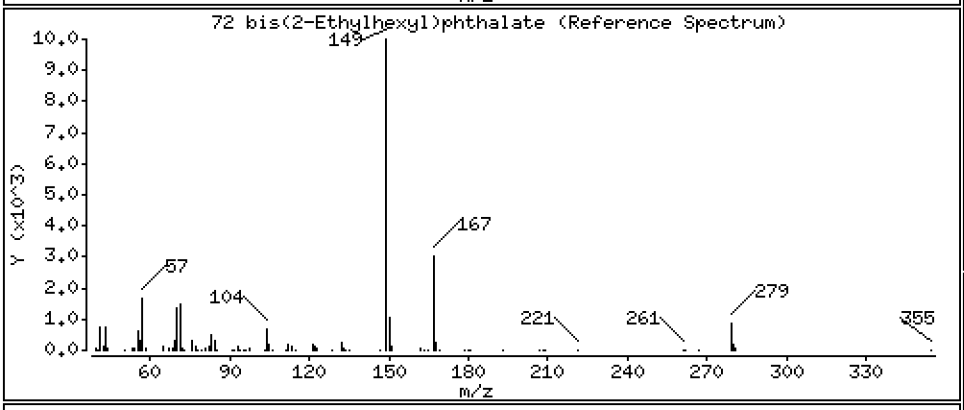
Column diameter: 0.25

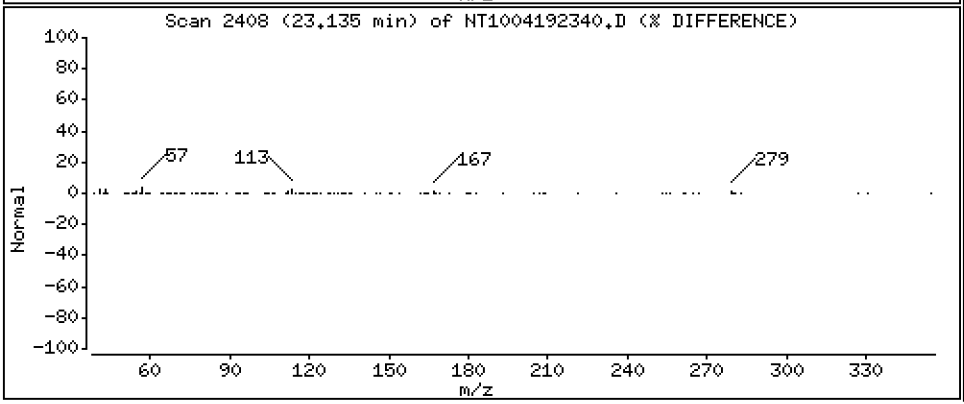
72 bis(2-Ethylhexyl)phthalate

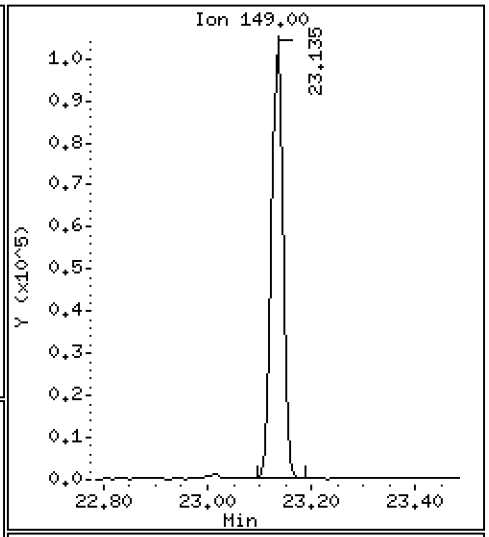
Concentration: 1.497 ug/mL

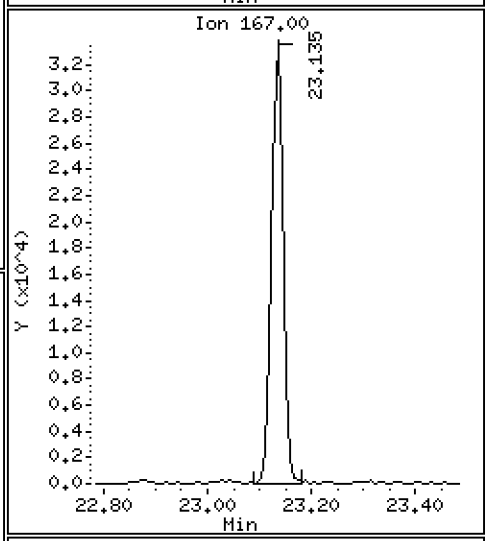


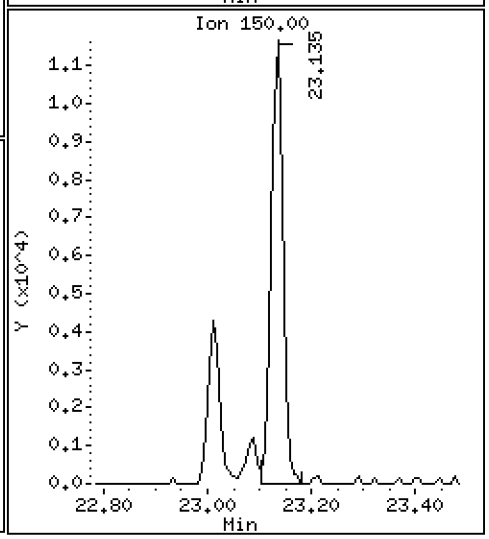












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

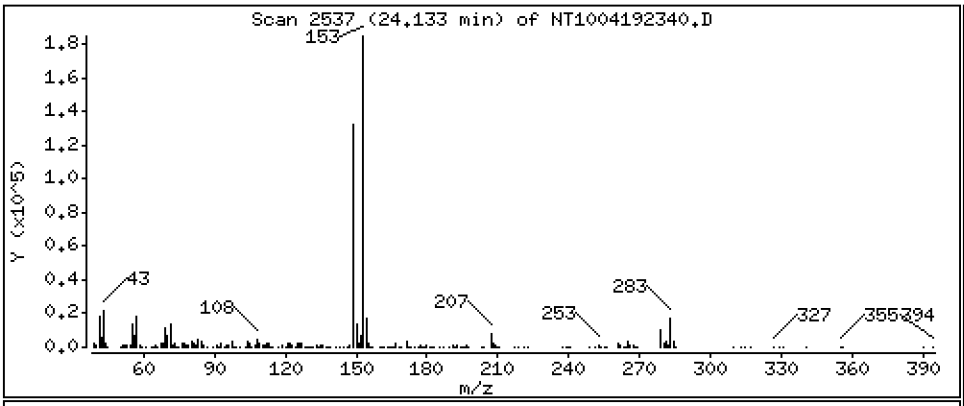
Operator: VTS

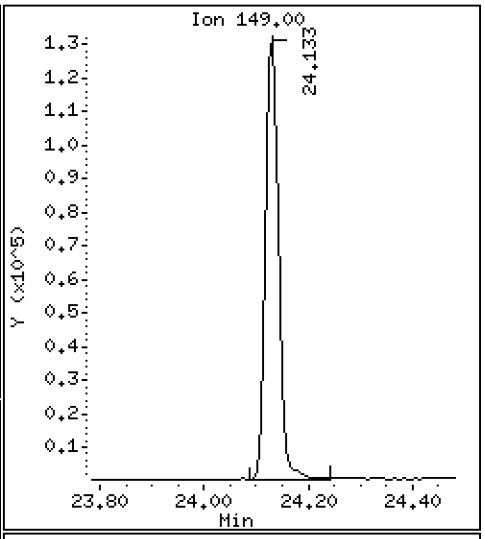
Column phase: ZB-5msi

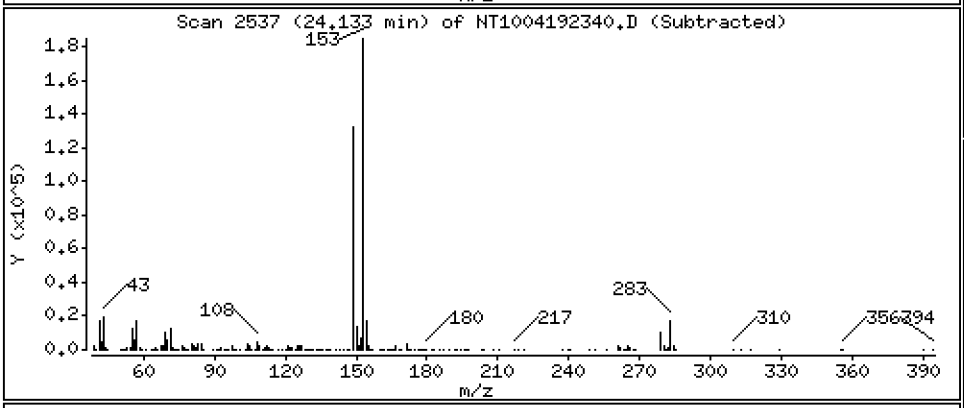
Column diameter: 0.25

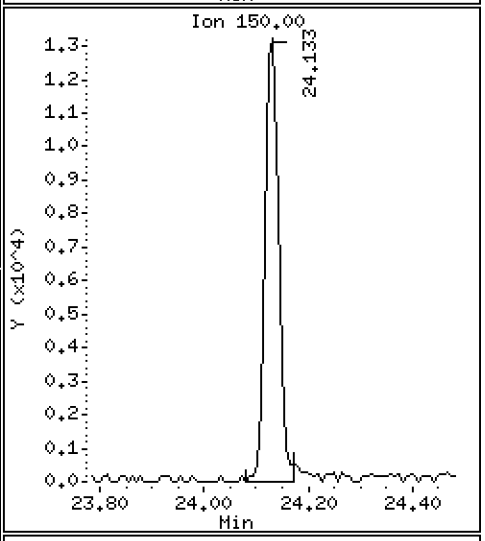
73 Di-n-octylphthalate

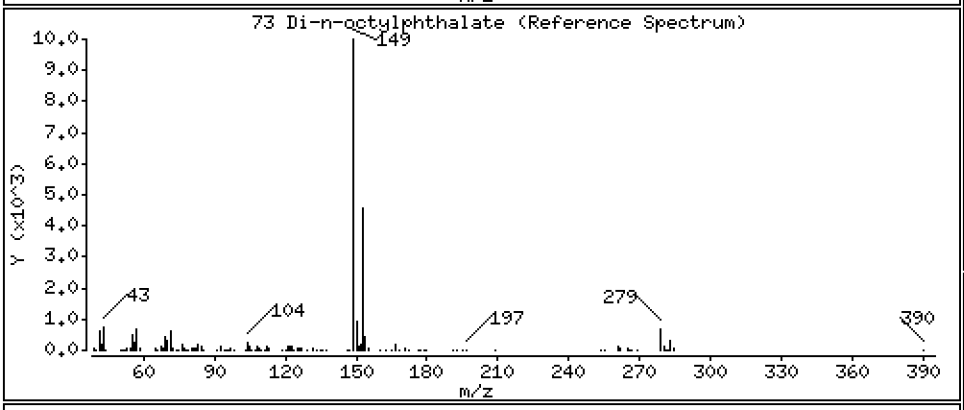
Concentration: 1.240 ug/mL

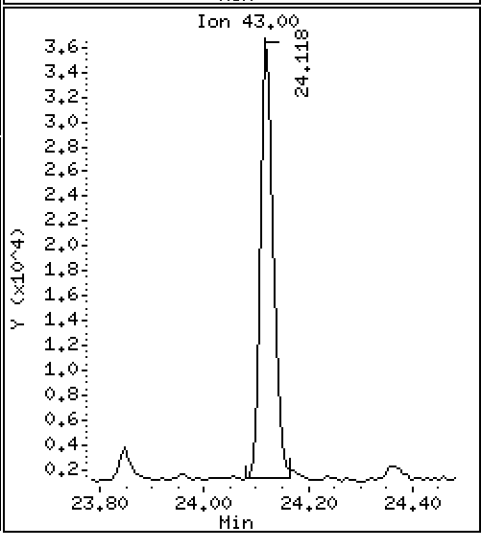


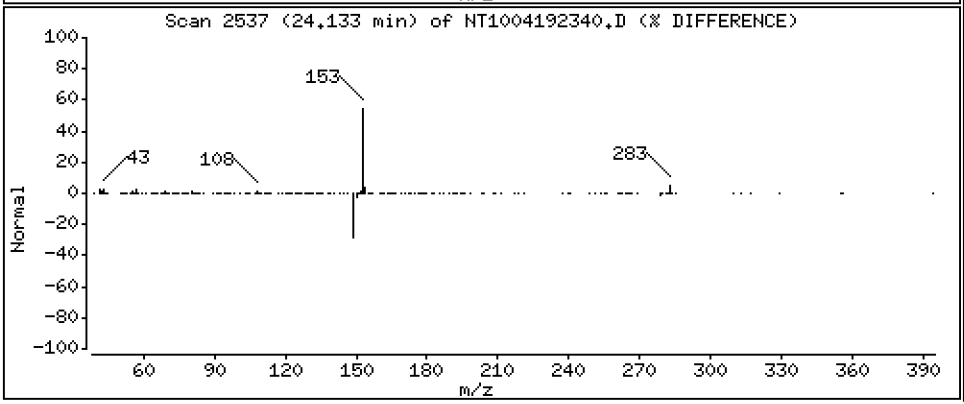












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

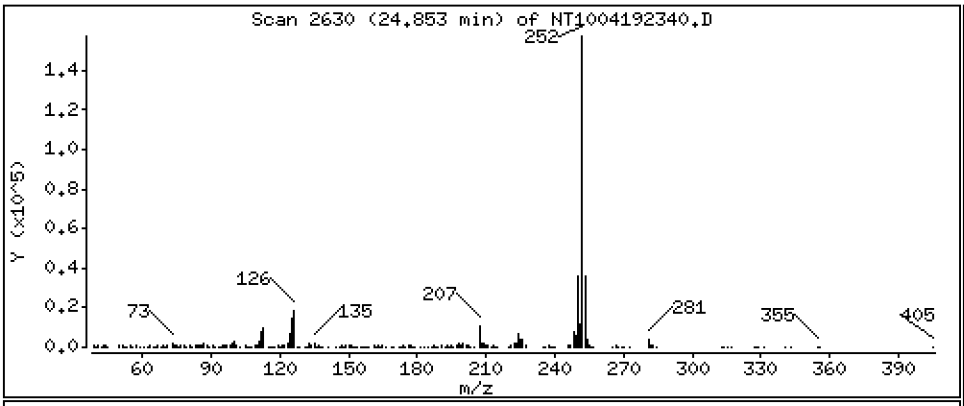
Operator: VTS

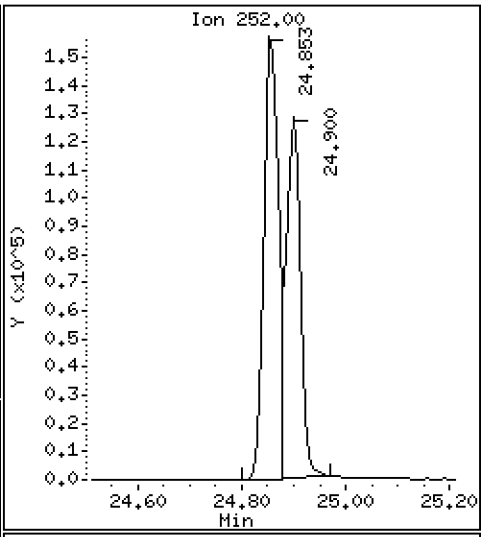
Column phase: ZB-5msi

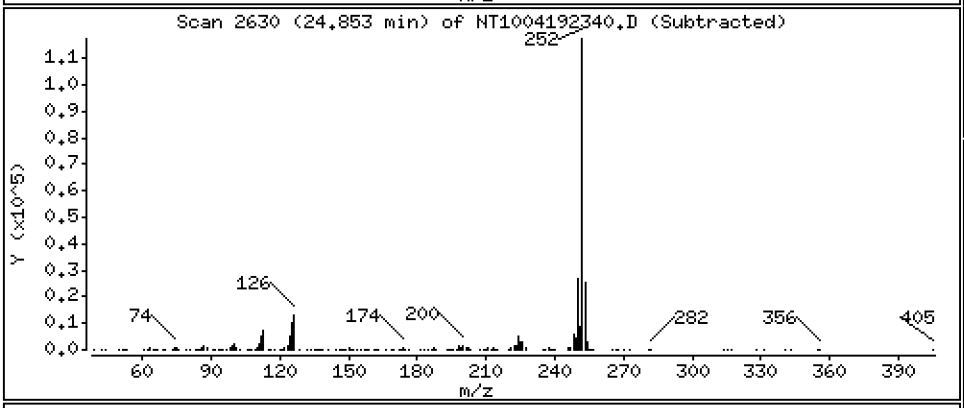
Column diameter: 0.25

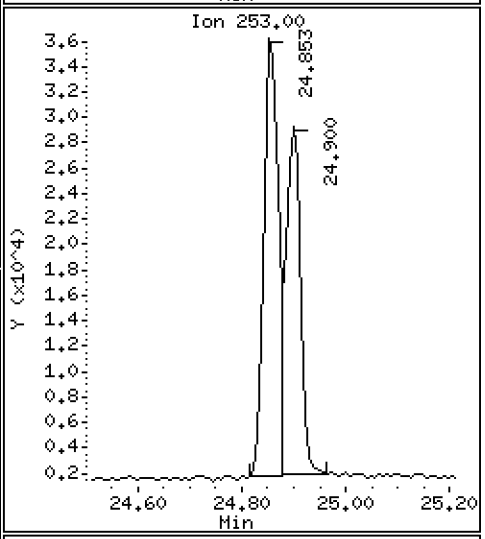
74 Benzo(b)fluoranthene

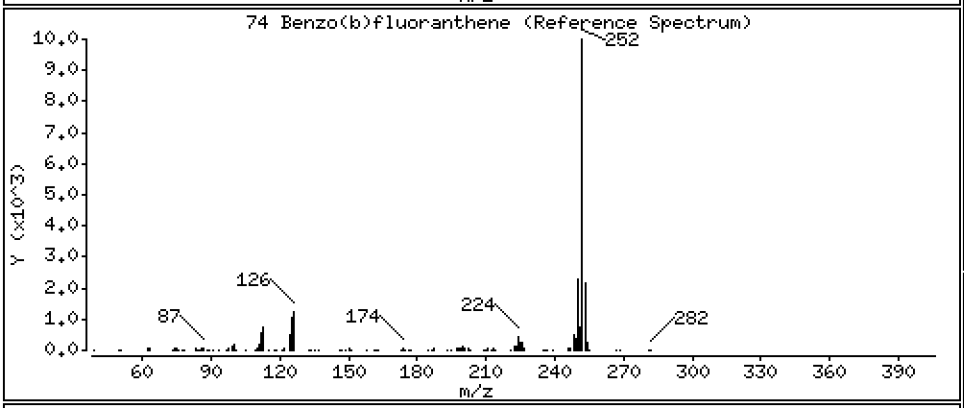
Concentration: 1.721 ug/mL

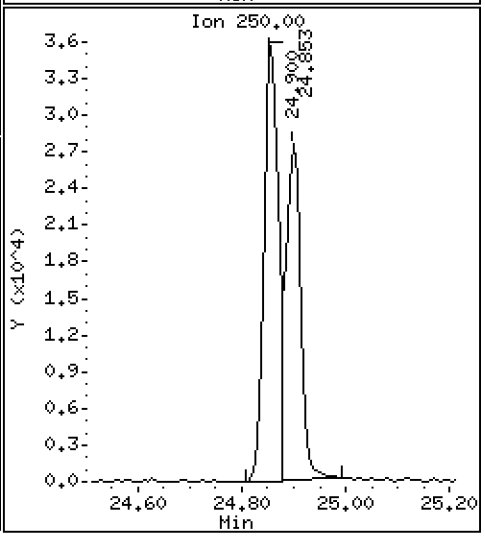


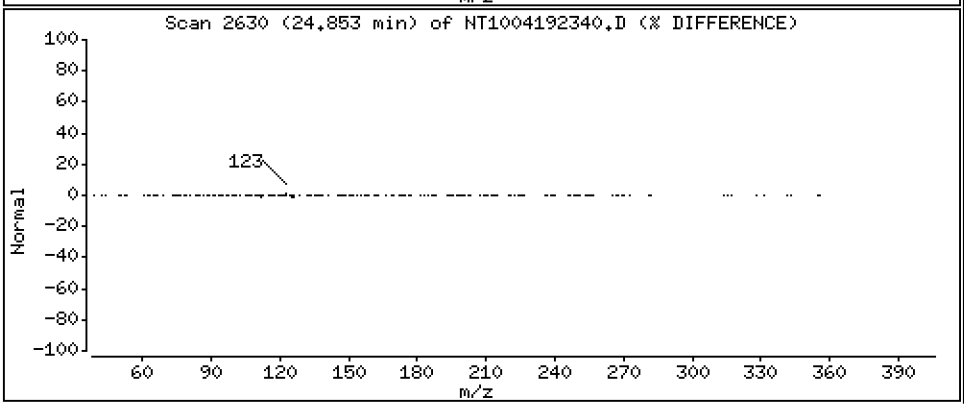












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

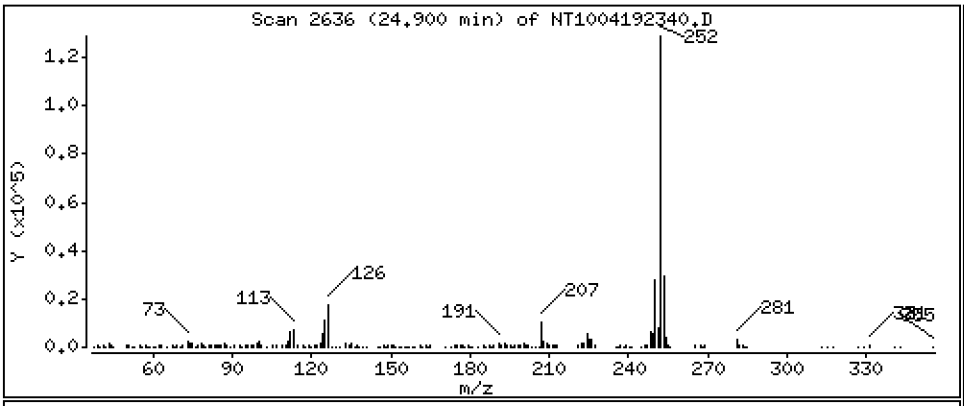
Operator: VTS

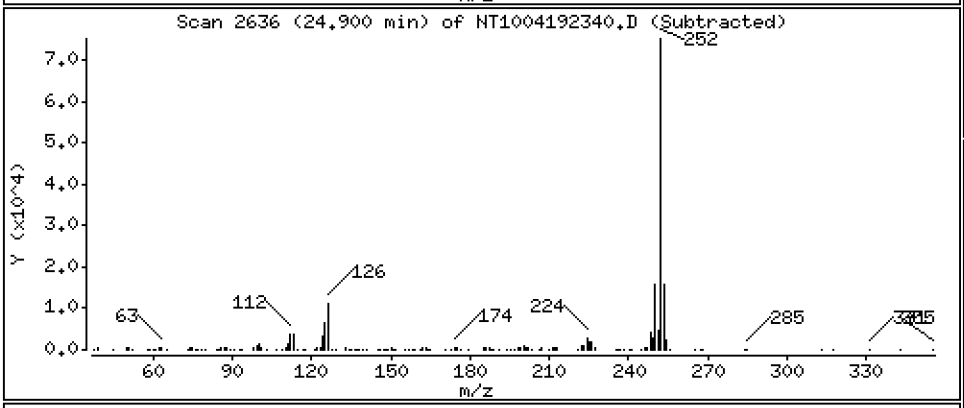
Column phase: ZB-5msi

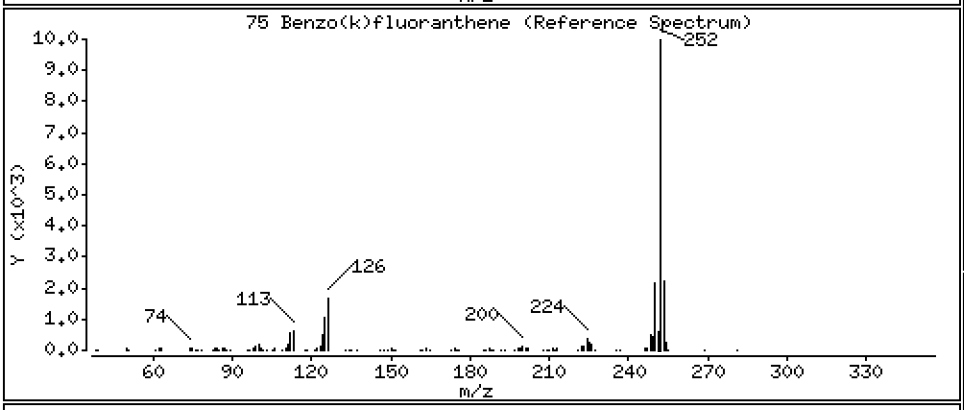
Column diameter: 0.25

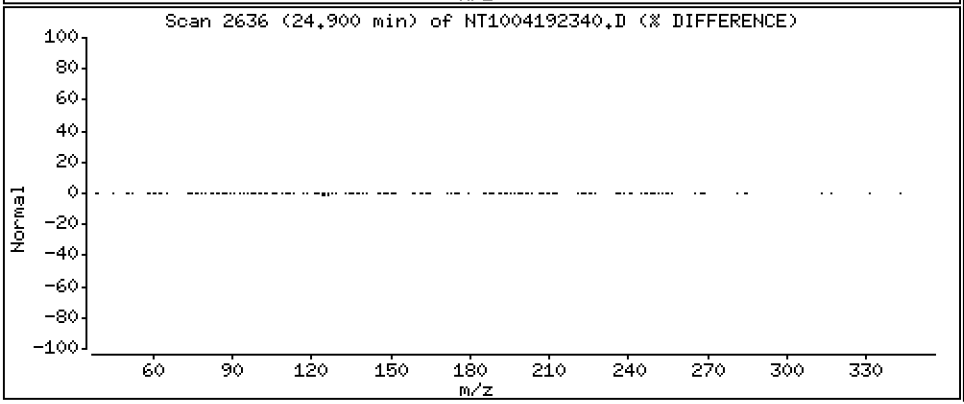
75 Benzo(k)fluoranthene

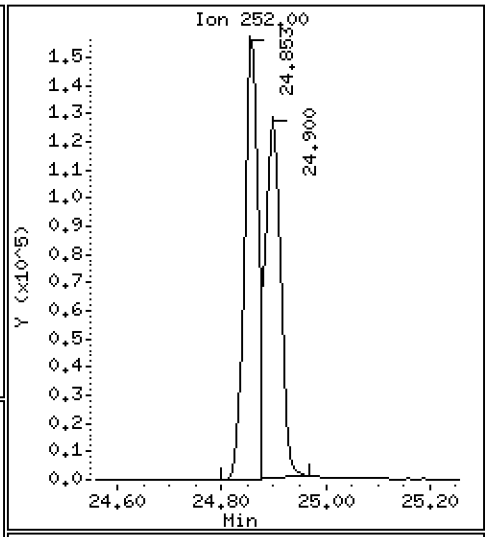
Concentration: 1.545 ug/mL

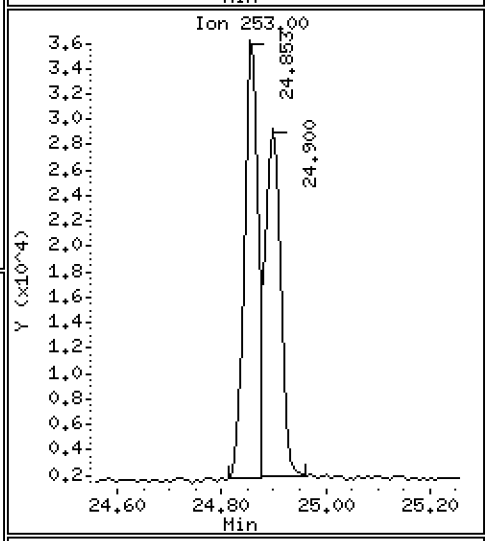


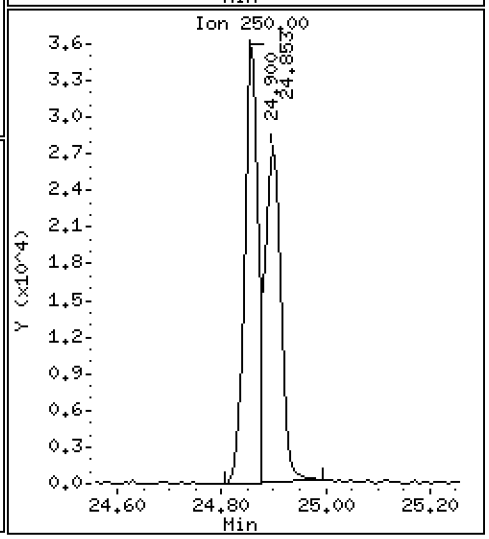












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

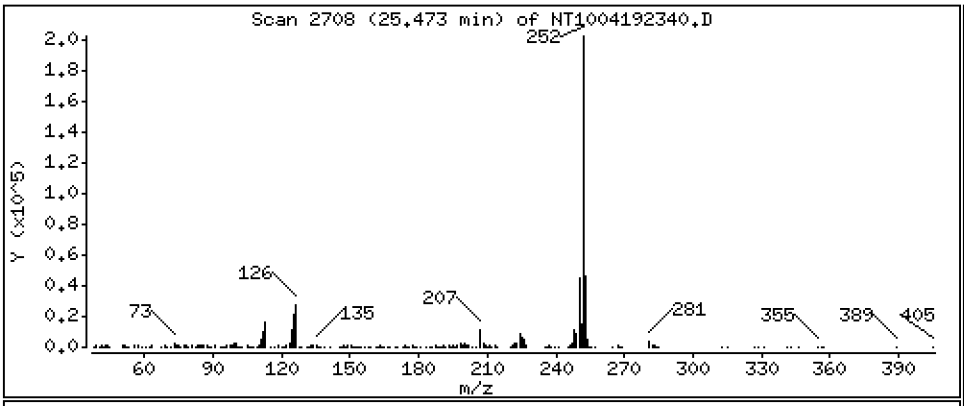
Operator: VTS

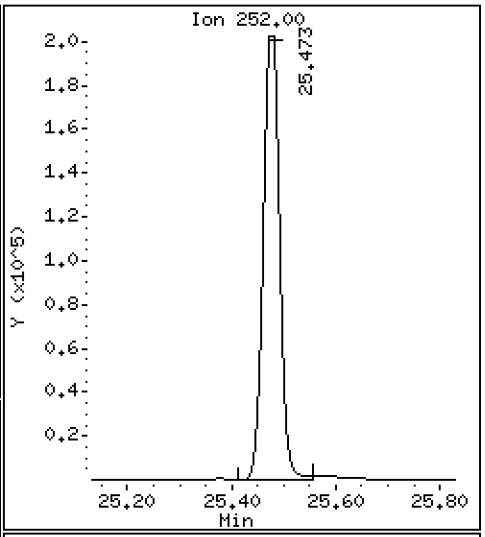
Column phase: ZB-5msi

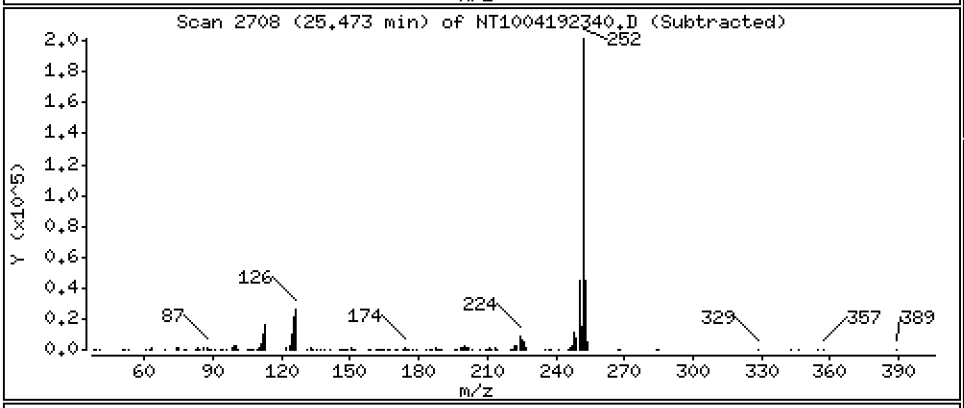
Column diameter: 0.25

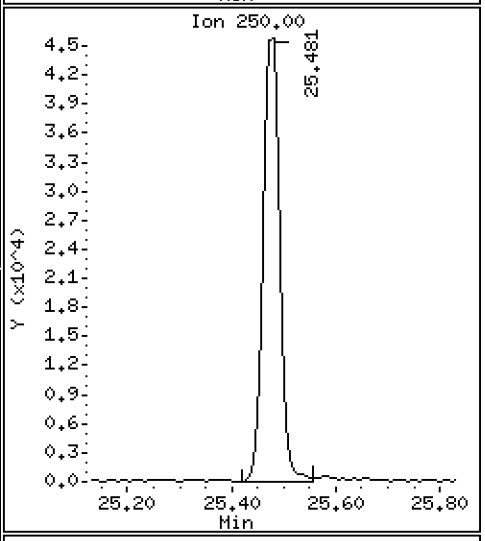
76 Benzo(a)pyrene

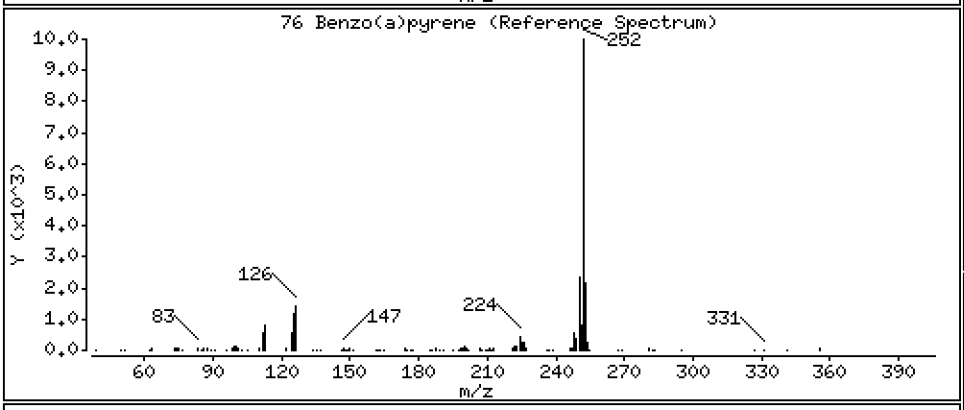
Concentration: 2.715 ug/mL

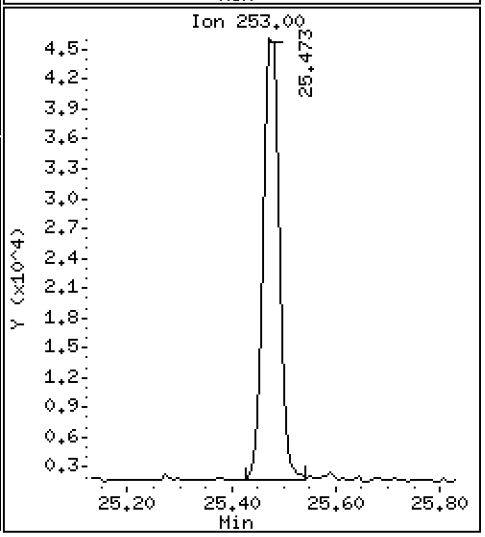


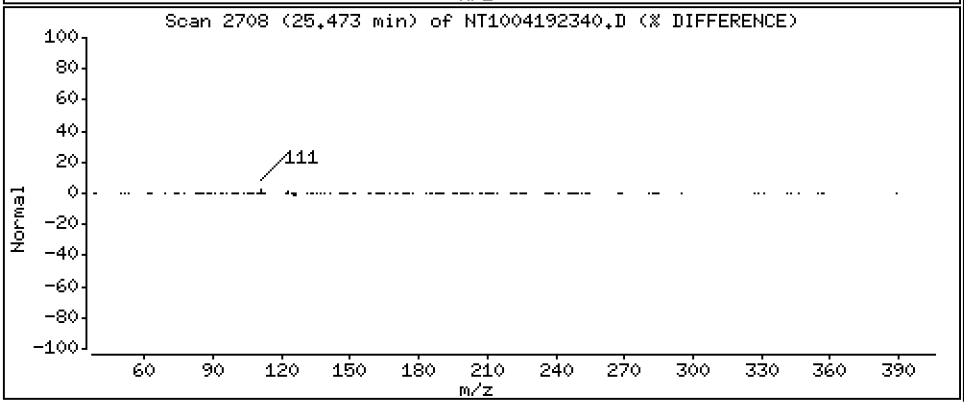












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

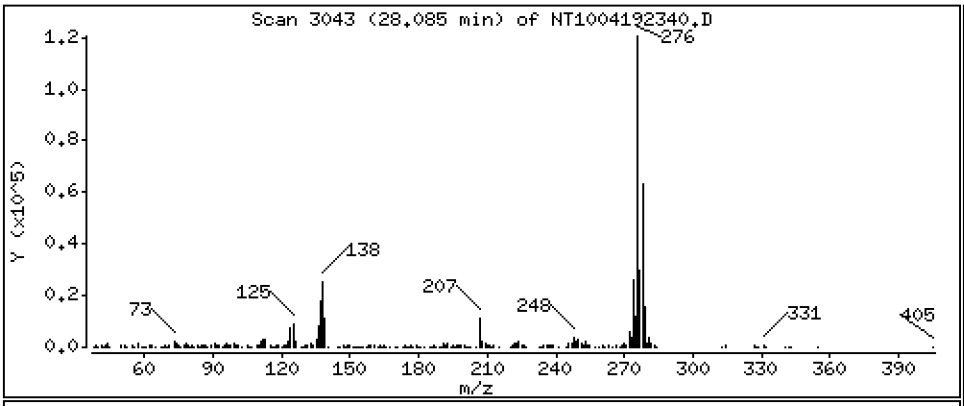
Operator: VTS

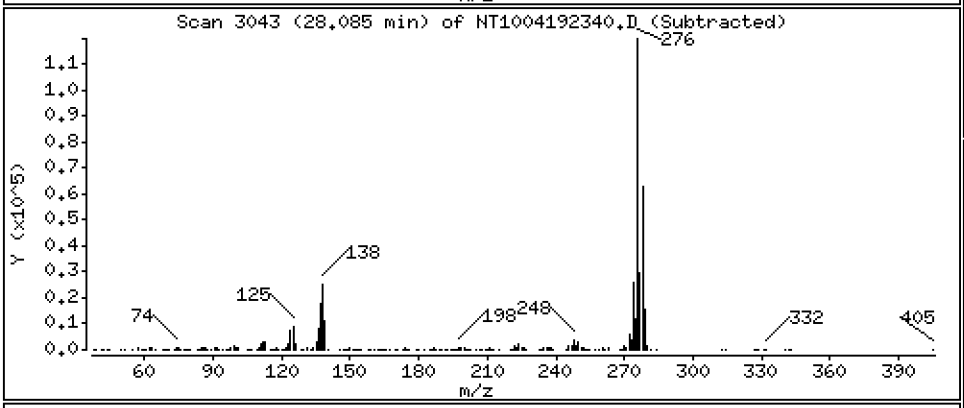
Column phase: ZB-5msi

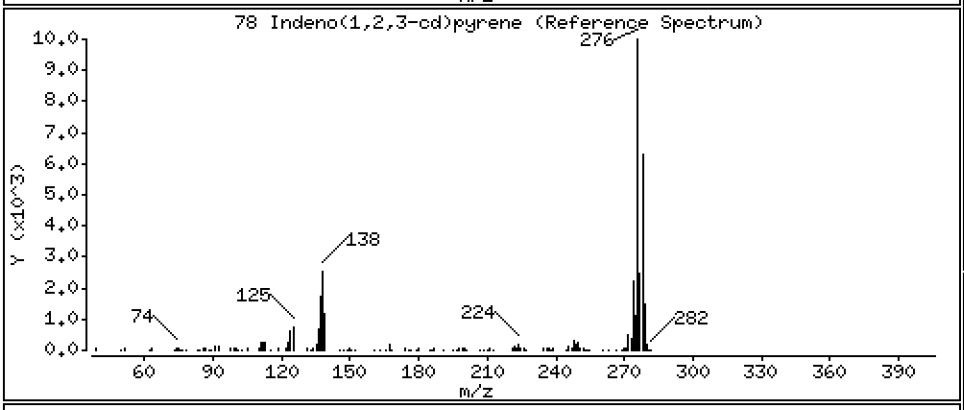
Column diameter: 0.25

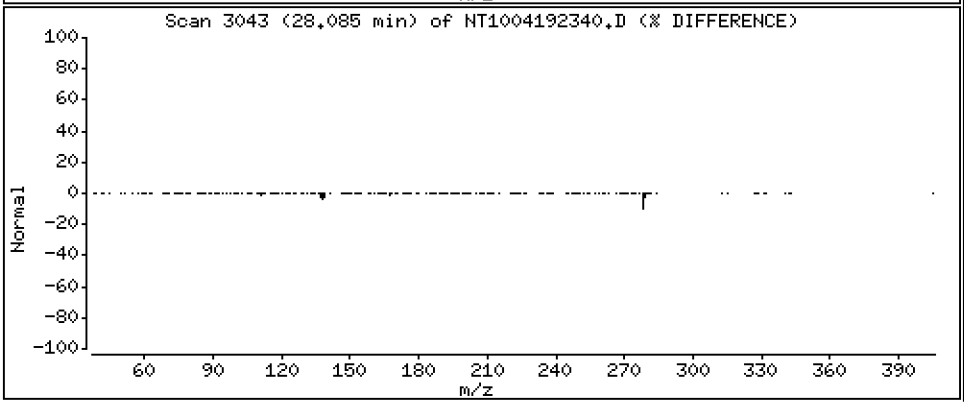
78 Indeno(1,2,3-cd)pyrene

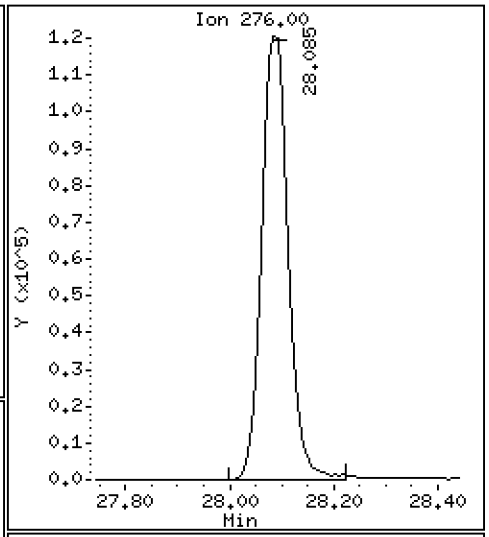
Concentration: 2.135 ug/mL

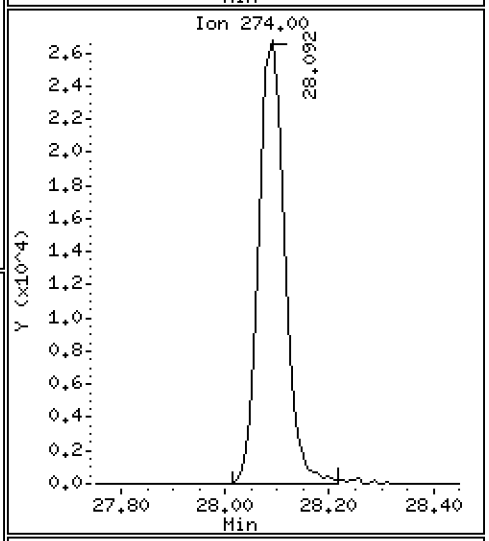


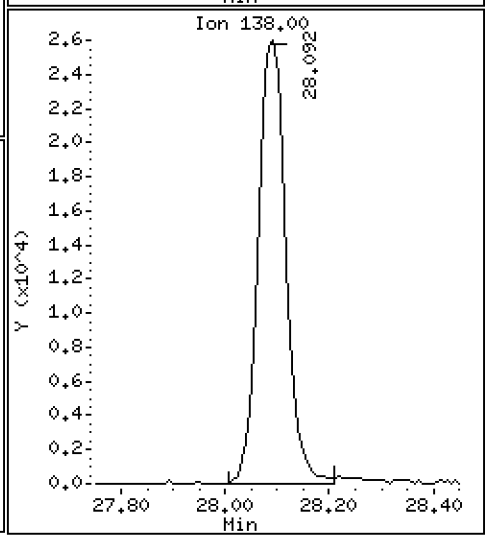












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

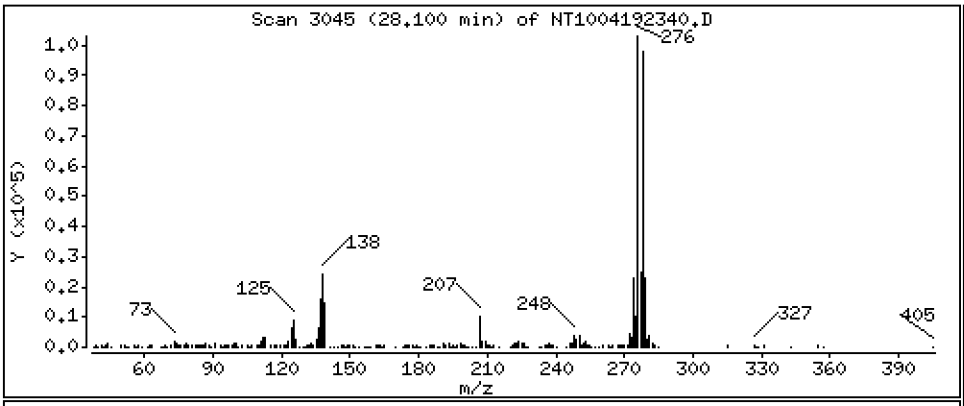
Operator: VTS

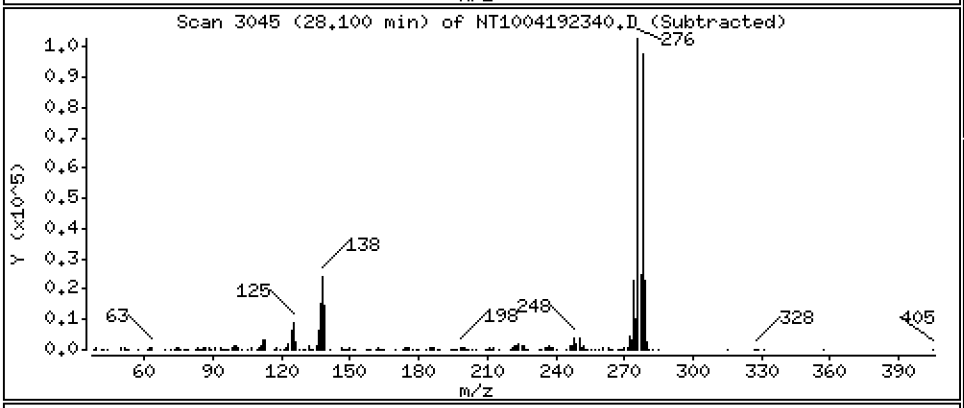
Column phase: ZB-5msi

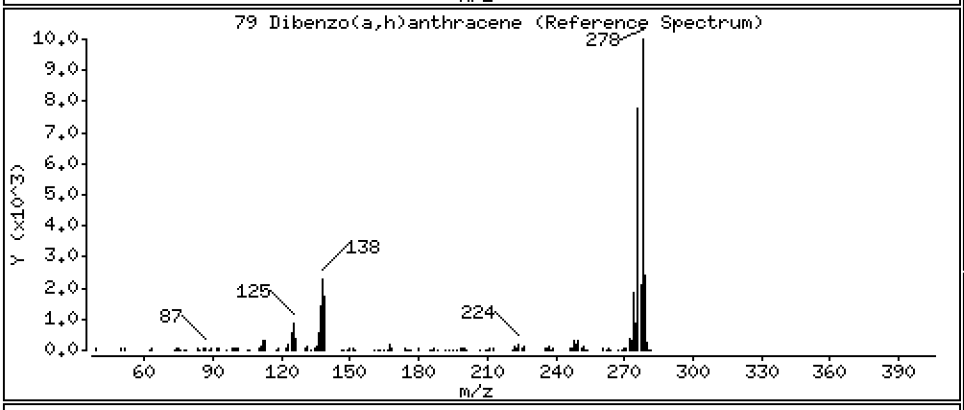
Column diameter: 0.25

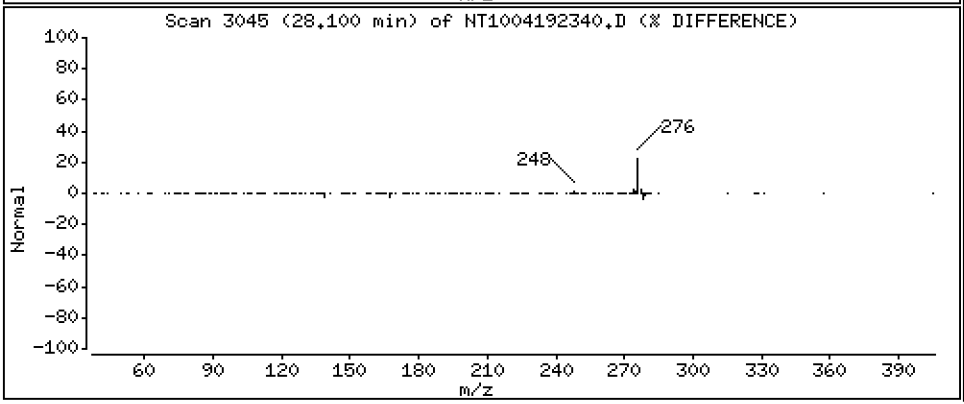
79 Dibenzo(a,h)anthracene

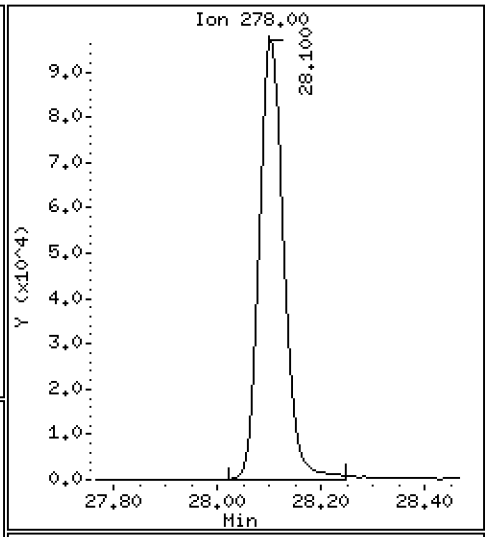
Concentration: 1.926 ug/mL

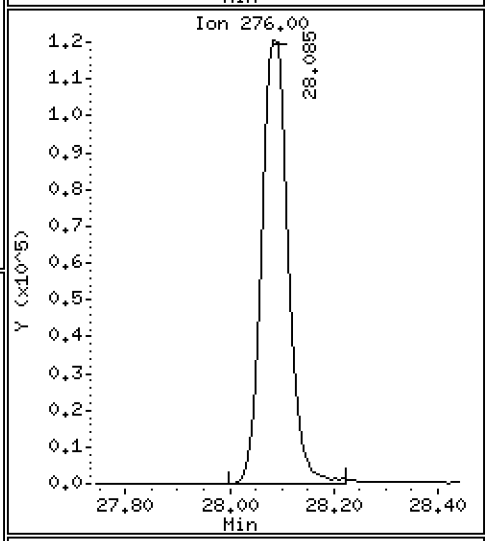


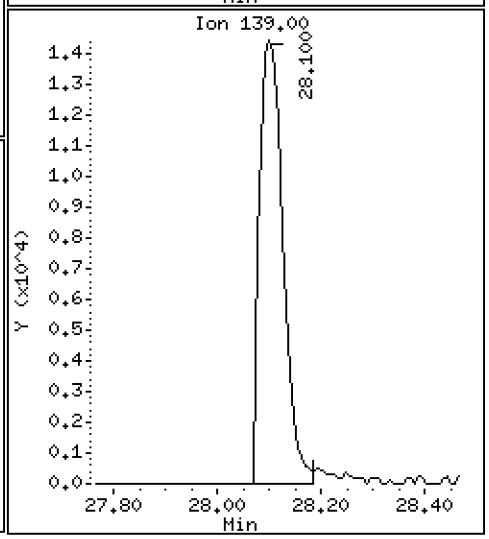












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

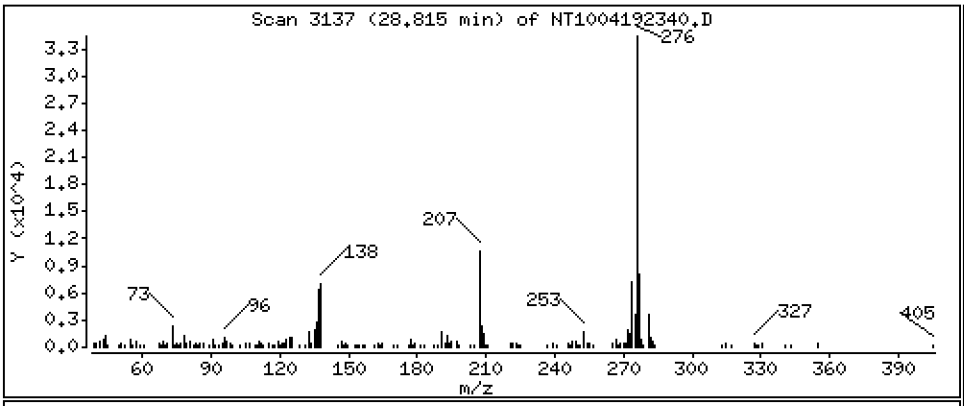
Operator: VTS

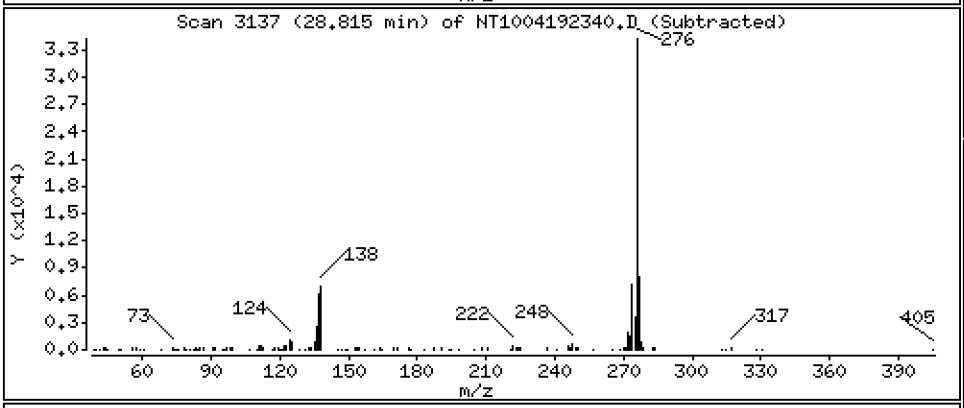
Column phase: ZB-5msi

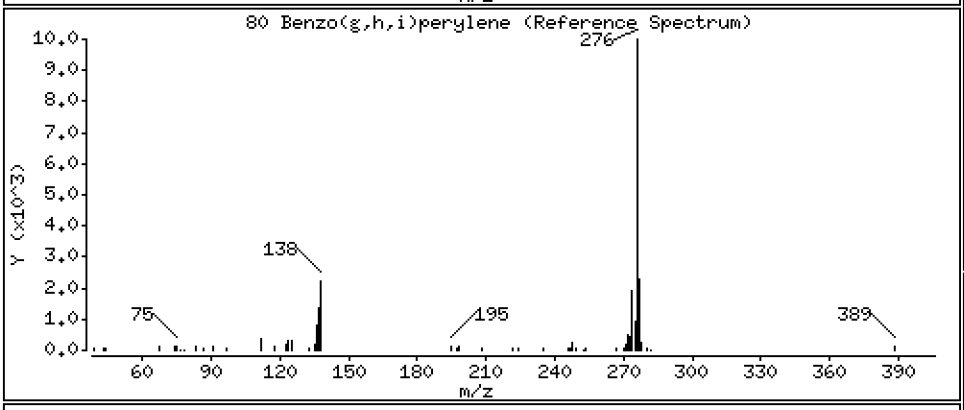
Column diameter: 0.25

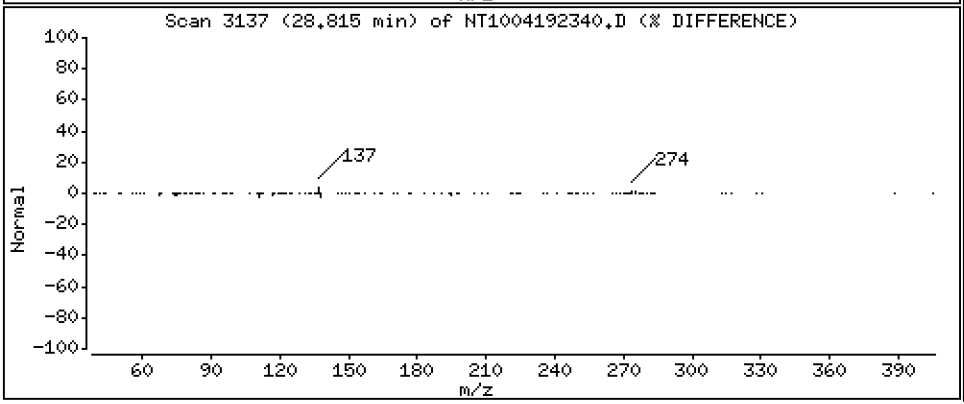
80 Benzo(g,h,i)perylene

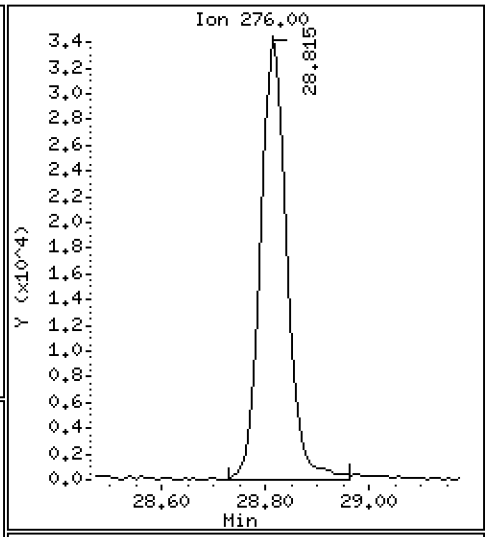
Concentration: 0.7039 ug/mL

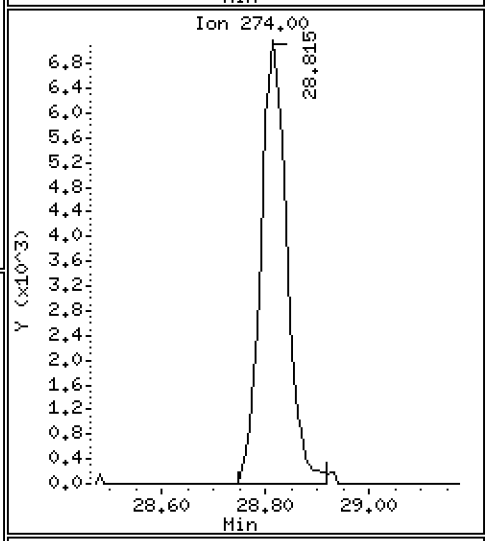


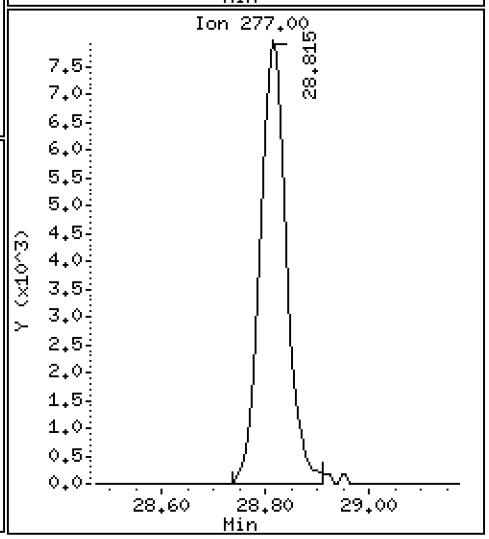












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

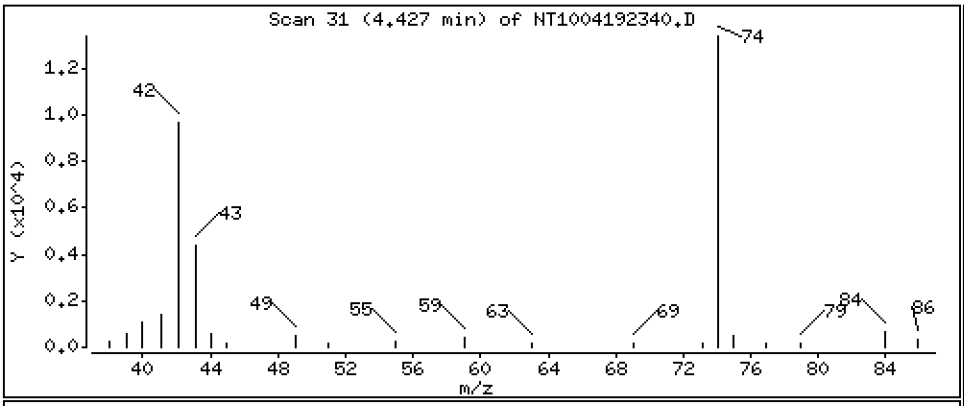
Operator: VTS

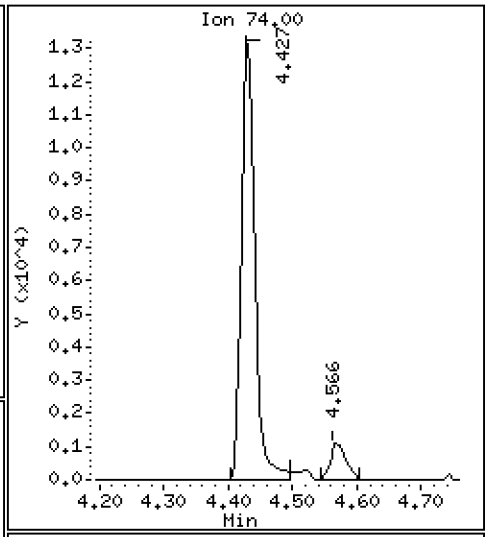
Column phase: ZB-5msi

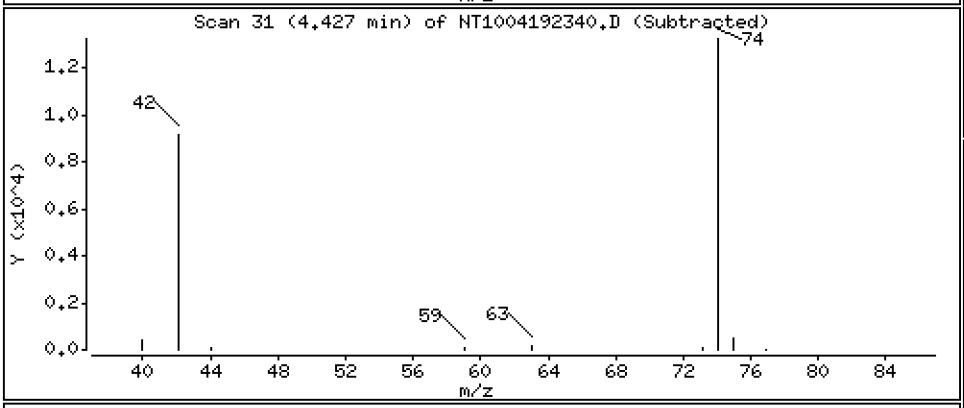
Column diameter: 0.25

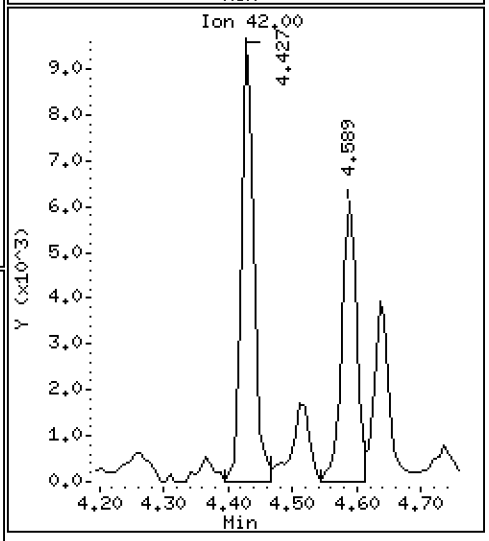
90 N-Nitrosodimethylamine

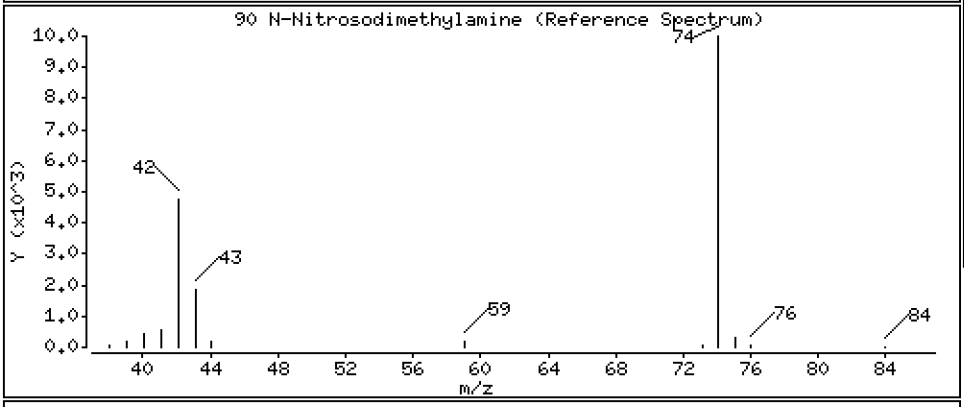
Concentration: 0.7651 ug/mL

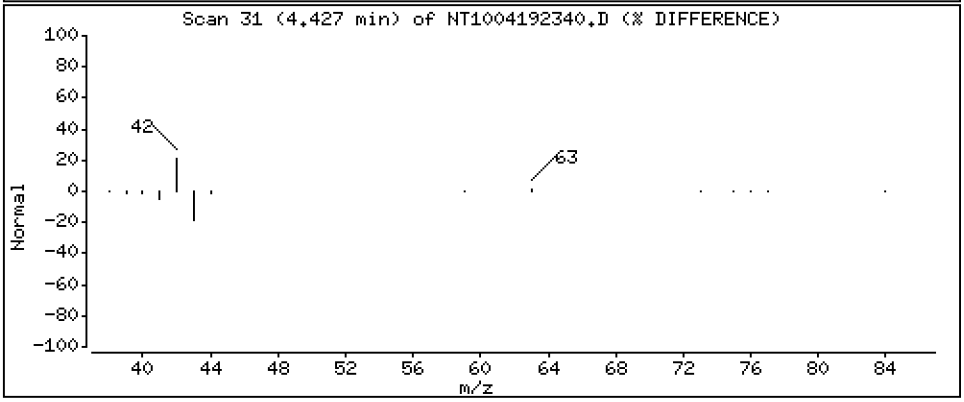












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

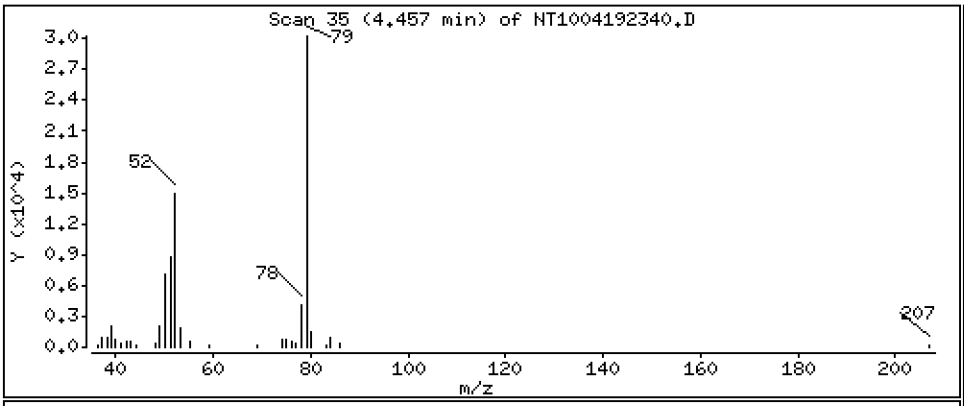
Operator: VTS

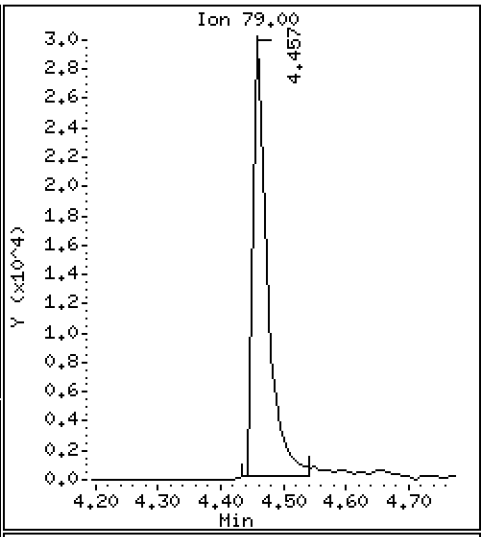
Column phase: ZB-5msi

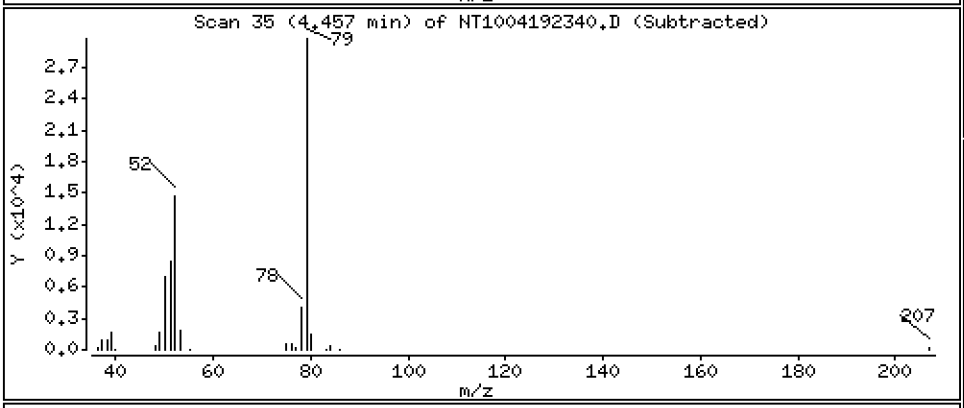
Column diameter: 0.25

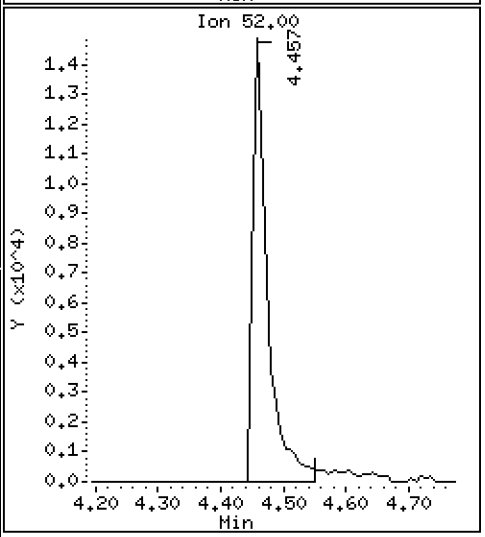
103 Pyridine

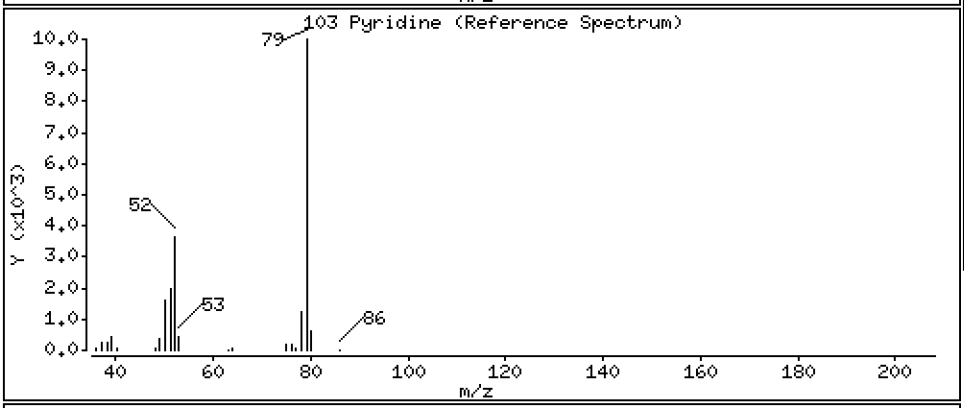
Concentration: 1.231 ug/mL

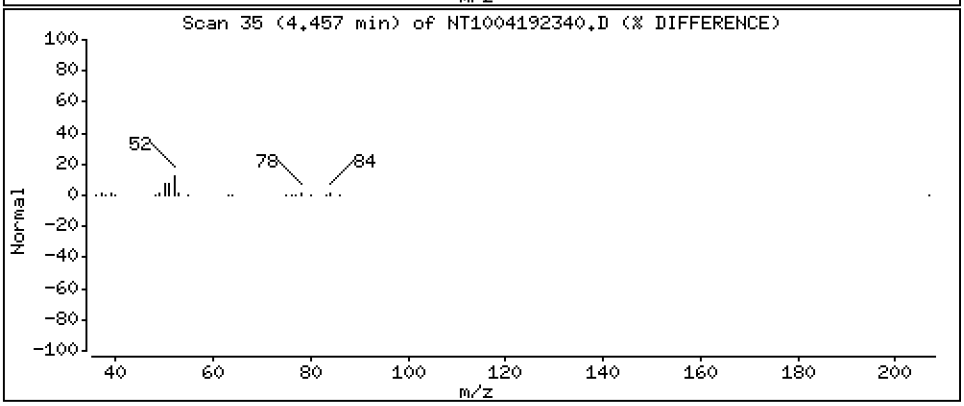












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192340.D

Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

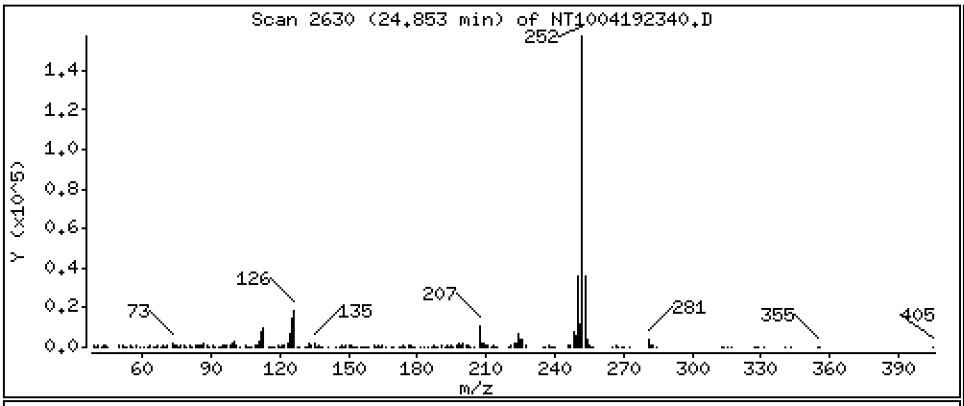
Operator: VTS

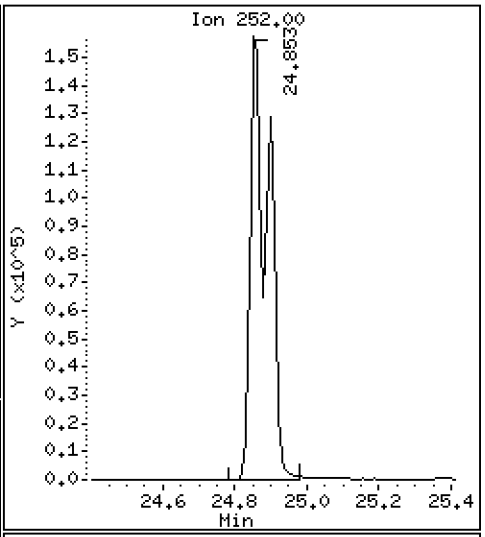
Column phase: ZB-5msi

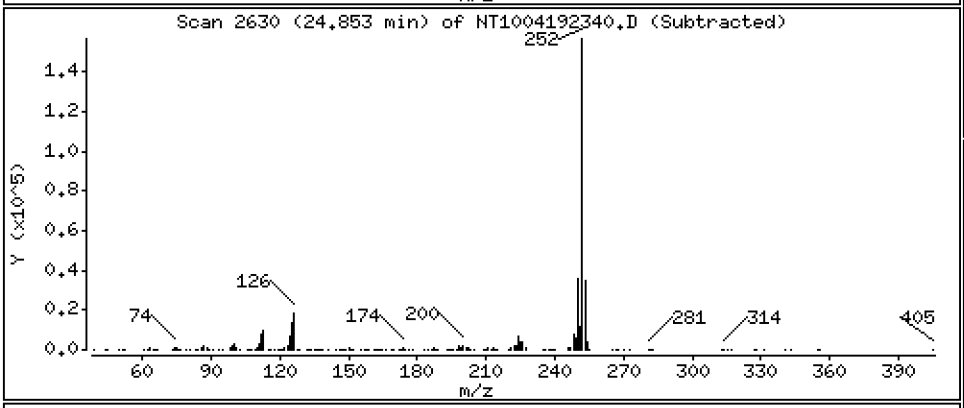
Column diameter: 0.25

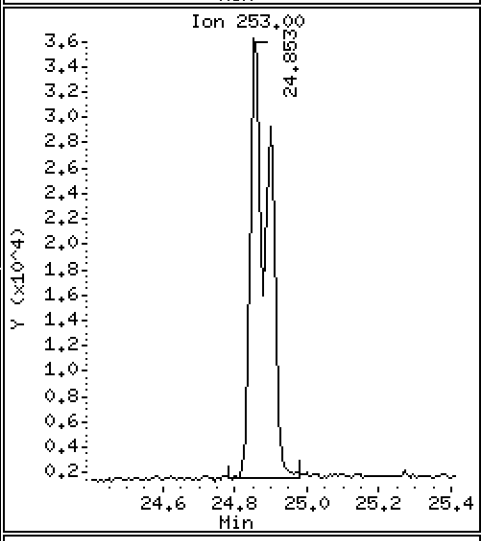
187 Total Benzofluoranthenes

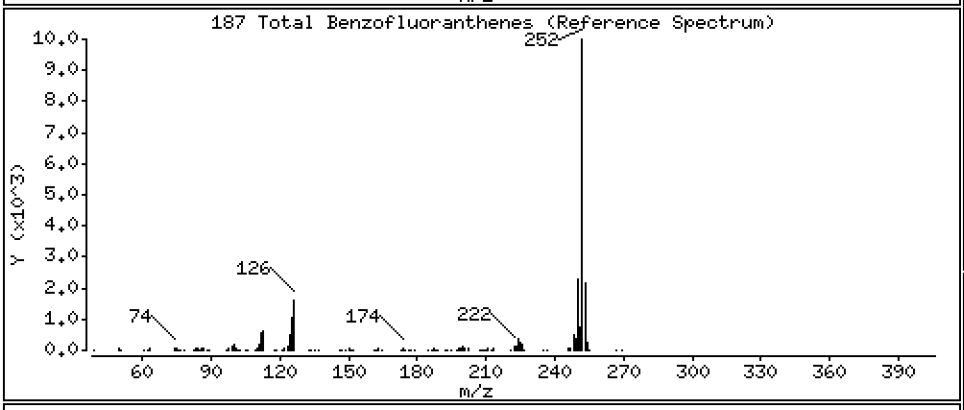
Concentration: 3.262 ug/mL

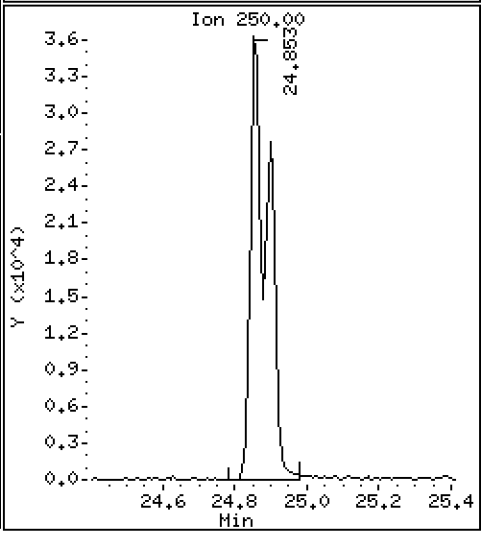


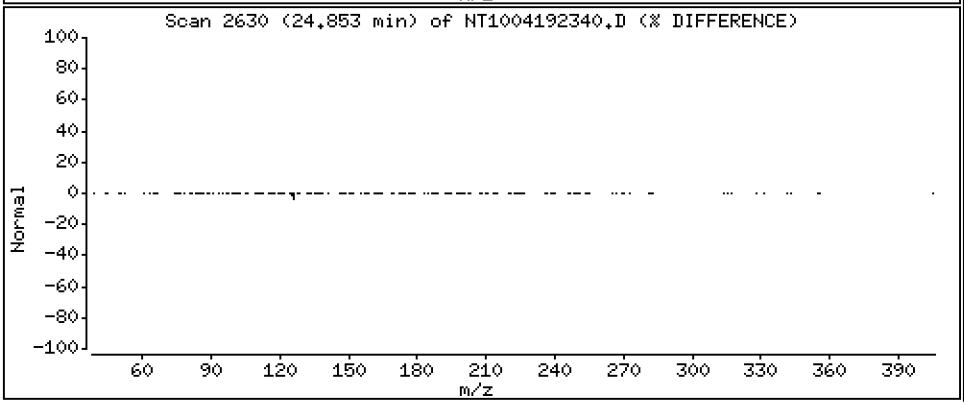












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192340.D

Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM1

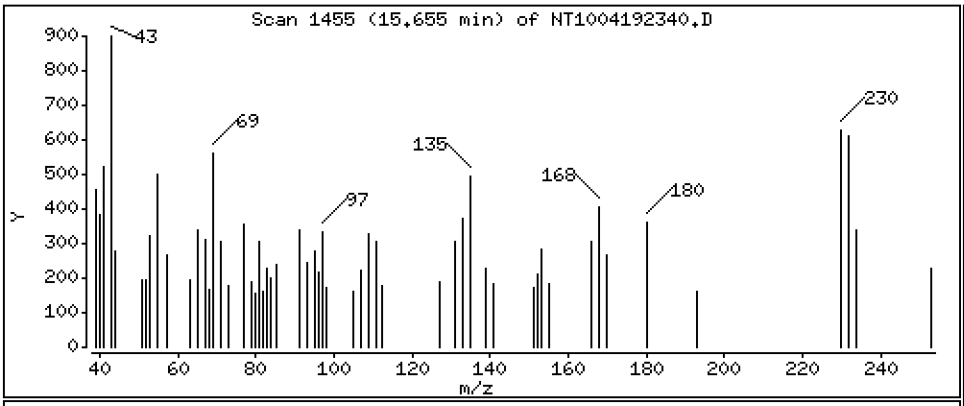
Operator: VTS

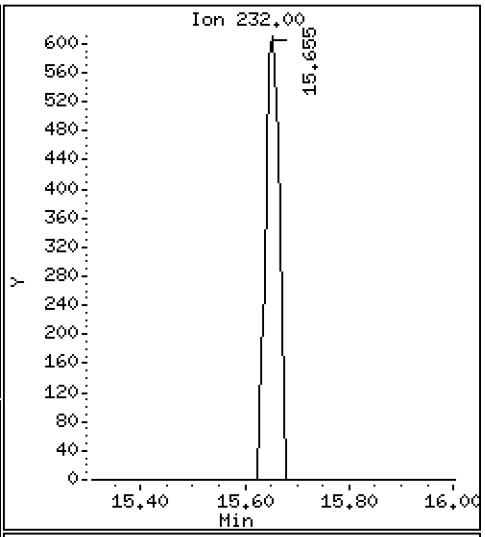
Column phase: ZB-5msi

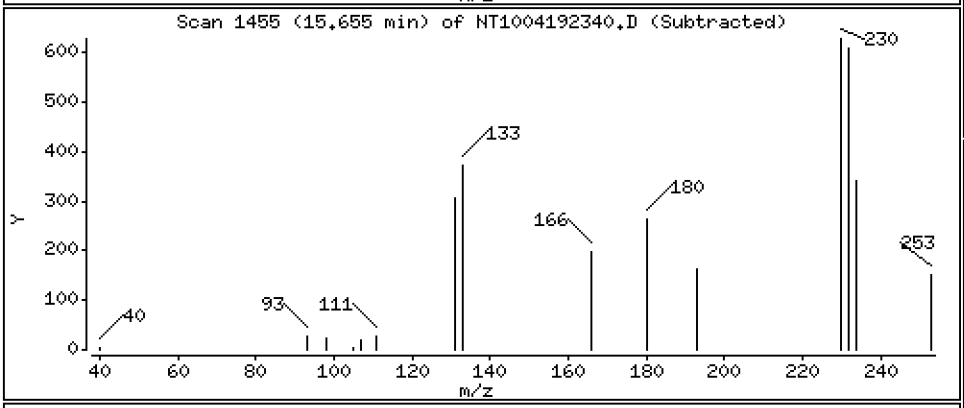
Column diameter: 0.25

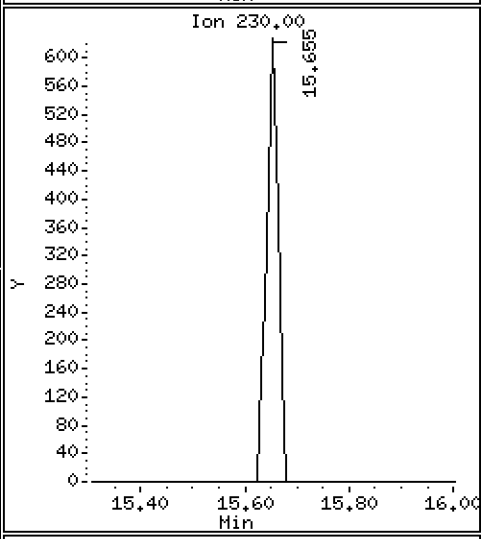
120 2,3,4,6-Tetrachlorophenol

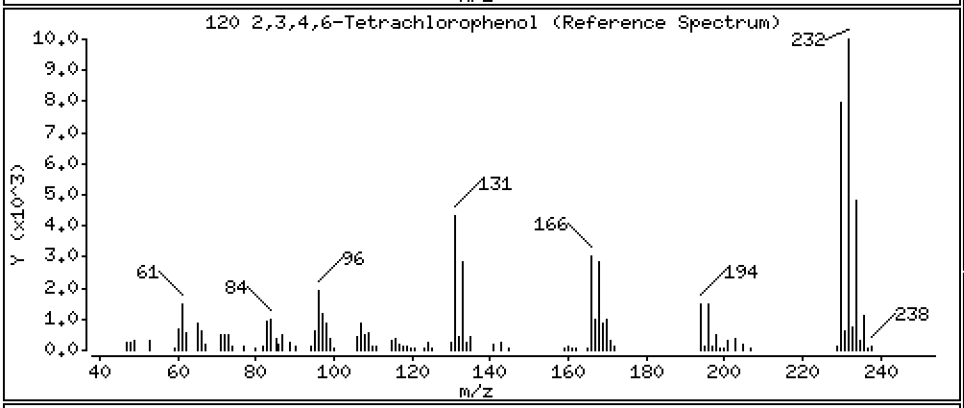
Concentration: 0.03651 ug/mL

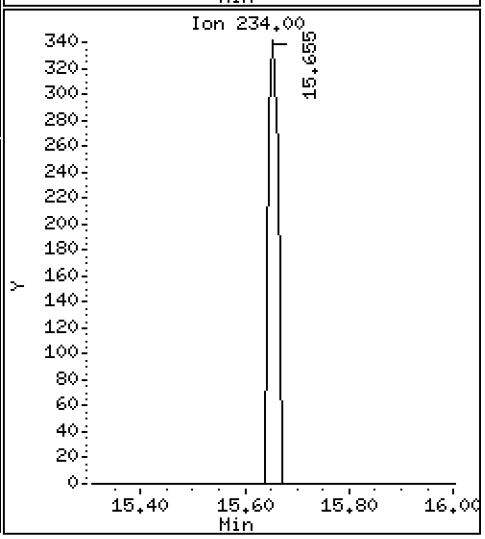


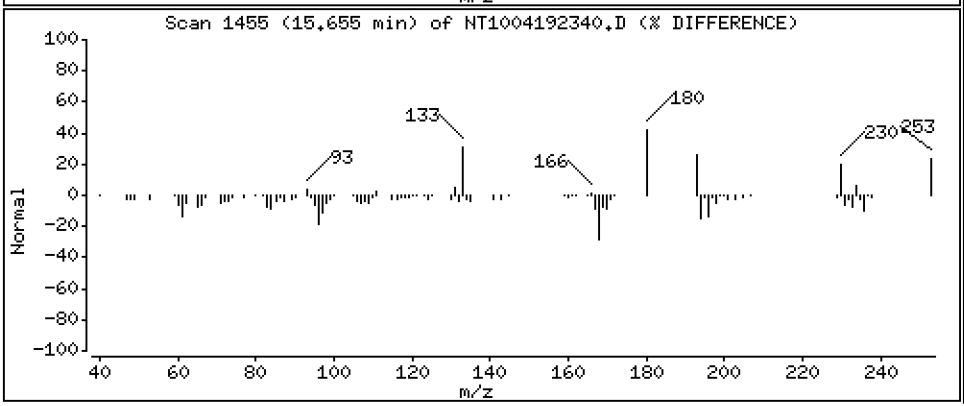












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230419B.b\NT1004192340.D
Lab Smp Id: BLD0008-SRM1
Inj Date : 20-APR-2023 12:07
Operator : VTS Inst ID: nt10.i
Smp Info : BLD0008-SRM1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Meth Date : 21-Apr-2023 11:46 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.619	6.612	(0.750)	185136	4.60106	4.601
$	2 Phenol-d5	99	8.219	8.219	(0.931)	242799	4.59970	4.600
	3 Phenol	94	8.234	8.235	(0.933)	96254	1.75477	1.755
$	5 2-Chlorophenol-d4	132	8.474	8.474	(0.960)	243297	5.39756	5.398
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	8.497	8.497	(0.962)	51725	1.10179	1.102
	7 1,3-Dichlorobenzene	146	8.760	8.761	(0.992)	49352	0.99436	0.9944
*	8 1,4-Dichlorobenzene-d4	152	8.830	8.830	(1.000)	133056	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	9.187	9.187	(1.040)	99885	3.08563	3.086
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	121	9.412	9.413	(1.066)	32525	2.34719	2.347
	13 2-Methylphenol	108	9.342	9.343	(1.058)	124917	3.12402	3.124
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	9.622	9.622	(1.090)	155404	3.68855	3.689
$	18 Nitrobenzene-d5	82	9.924	9.925	(0.878)	153975	3.06674	3.067
	19 Nitrobenzene	77	9.955	9.964	(0.881)	100773	2.04521	2.045
	20 Isophorone	82	10.406	10.414	(0.920)	89808	1.42478	1.425
	21 2-Nitrophenol	139	10.591	10.592	(0.937)	102590	4.26262	4.263
	22 2,4-Dimethylphenol	107	10.659	10.660	(0.943)	24520	0.54179	0.5418
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	11.050	11.050	(0.977)	198249	5.47399	5.474
	26 1,2,4-Trichlorobenzene	180	11.229	11.230	(0.993)	47288	1.11233	1.112
*	27 Naphthalene-d8	136	11.307	11.307	(1.000)	497424	4.00000	
	28 Naphthalene	128	11.345	11.353	(1.003)	422557	3.20666	3.207
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	11.716	11.716	(1.036)	42577	1.70924	1.709
	31 4-Chloro-3-methylphenol	107	12.467	12.467	(1.103)	49719	1.26814	1.268
	32 2-Methylnaphthalene	142	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

		QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
34	2,4,6-Trichlorophenol	196	13.372	13.373	(0.897)	38766	1.33642	1.336
35	2,4,5-Trichlorophenol	196	13.450	13.450	(0.902)	65624	2.03605	2.036
$ 36	2-Fluorobiphenyl	172	13.527	13.527	(0.907)	362964	3.12643	3.126
37	2-Chloronaphthalene	162	13.728	13.736	(0.921)	131006	1.39363	1.394
38	2-Nitroaniline	65	14.030	14.007	(0.941)	1952	0.07392	0.07392
39	Dimethylphthalate	163	14.440	14.441	(0.968)	272816	2.86146	2.861
40	Acenaphthylene	152	14.595	14.603	(0.979)	153712	1.04937	1.049
41	2,6-Dinitrotoluene	165	Compound Not Detected.					
* 42	Acenaphthene-d10	164	14.912	14.913	(1.000)	293487	4.00000	
43	3-Nitroaniline	138	Compound Not Detected.					
44	Acenaphthene	153	14.982	14.982	(1.005)	309137	3.41615	3.416
45	2,4-Dinitrophenol	184	15.067	15.067	(1.010)	38614	3.08841	3.088
46	Dibenzofuran	168	15.307	15.307	(1.026)	495090	3.71006	3.710
47	4-Nitrophenol	109	15.206	15.206	(1.020)	55629	3.81342	3.813
48	2,4-Dinitrotoluene	165	15.376	15.384	(1.031)	65449	2.10738	2.107
50	Diethylphthalate	149	15.894	15.902	(1.066)	5436	0.05811	0.05811
49	Fluorene	166	16.018	16.018	(1.074)	241953	2.30464	2.305
51	4-Chlorophenyl-phenylether	204	16.018	16.018	(1.074)	67408	1.35022	1.350
52	4-Nitroaniline	138	Compound Not Detected.					
53	4,6-Dinitro-2-methylphenol	198	16.211	16.219	(0.903)	85925	5.45354	5.454
54	N-Nitrosodiphenylamine	169	16.272	16.273	(0.907)	120583	1.73970	1.740
$ 55	2,4,6-Tribromophenol	330	16.550	16.558	(1.110)	76962	5.61452	5.615
56	4-Bromophenyl-phenylether	248	17.020	17.021	(0.948)	137583	4.74483	4.745
57	Hexachlorobenzene	284	Compound Not Detected.					
58	Pentachlorophenol	266	17.694	17.694	(0.986)	44830	2.48162	2.482
* 59	Phenanthrene-d10	188	17.949	17.949	(1.000)	518432	4.00000	
60	Phenanthrene	178	17.995	17.996	(1.003)	419487	2.96740	2.967
61	Anthracene	178	18.088	18.089	(1.008)	178302	1.31486	1.315
62	Carbazole	167	18.429	18.429	(1.027)	437376	3.59935	3.599
63	Di-n-butylphthalate	149	19.256	19.265	(1.073)	165982	1.01687	1.017
64	Fluoranthene	202	20.402	20.402	(0.885)	245440	1.28039	1.280
65	Pyrene	202	20.827	20.827	(0.904)	312452	1.58895	1.589
$ 66	Terphenyl-d14	244	21.137	21.137	(0.917)	472521	3.19977	3.200
67	Butylbenzylphthalate	149	22.081	22.089	(0.958)	136127	1.94944	1.949
68	Benzo(a)anthracene	228	23.010	23.019	(0.999)	547129	3.24923	3.249
* 69	Chrysene-d12	240	23.041	23.042	(1.000)	477060	4.00000	
70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71	Chrysene	228	23.088	23.088	(1.002)	127920	0.77757	0.7776
72	bis(2-Ethylhexyl)phthalate	149	23.134	23.135	(0.959)	148423	1.49666	1.497
* 134	Di-n-octylphthalate-d4	153	24.117	24.126	(1.000)	677474	4.00000	
73	Di-n-octylphthalate	149	24.133	24.133	(1.001)	219788	1.23971	1.240
74	Benzo(b)fluoranthene	252	24.853	24.861	(0.971)	299570	1.72144	1.721
75	Benzo(k)fluoranthene	252	24.899	24.908	(0.973)	273037	1.54515	1.545
76	Benzo(a)pyrene	252	25.472	25.481	(0.995)	422452	2.71523	2.715
* 77	Perylene-d12	264	25.589	25.589	(1.000)	536857	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.084	28.092	(1.098)	422607	2.13500	2.135
79	Dibenzo(a,h)anthracene	278	28.100	28.116	(1.098)	316444	1.92558	1.926
80	Benzo(g,h,i)perylene	276	28.814	28.822	(1.126)	120587	0.70394	0.7039
90	N-Nitrosodimethylamine	74	4.426	4.411	(0.501)	19640	0.76507	0.7651
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	4.457	4.426	(0.505)	48543	1.23127	1.231
105	1-methylnaphthalene	142	Compound Not Detected.					
111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	24.853	24.908	(0.971)	548157	3.26239	3.262
120 2,3,4,6-Tetrachlorophenol	232	15.654	15.655	(1.050)	1078	0.03651	0.03651

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192340.D
Lab Smp Id: BLD0008-SRM1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Misc Info:

Calibration Date: 20-APR-2023
Calibration Time: 07:41
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	129725	64863	259450	133056	2.57
27 Naphthalene-d8	475671	237836	951342	497424	4.57
42 Acenaphthene-d10	277889	138945	555778	293487	5.61
59 Phenanthrene-d10	485346	242673	970692	518432	6.82
69 Chrysene-d12	453075	226538	906150	477060	5.29
134 Di-n-octylphthala	697265	348633	1394530	677474	-2.84
77 Perylene-d12	538138	269069	1076276	536857	-0.24

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.83	8.33	9.33	8.83	-0.00
27 Naphthalene-d8	11.31	10.81	11.81	11.31	-0.00
42 Acenaphthene-d10	14.91	14.41	15.41	14.91	-0.00
59 Phenanthrene-d10	17.95	17.45	18.45	17.95	-0.00
69 Chrysene-d12	23.04	22.54	23.54	23.04	-0.00
134 Di-n-octylphthala	24.13	23.63	24.63	24.12	-0.03
77 Perylene-d12	25.59	25.09	26.09	25.59	-0.00

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

REVIEW SUMMARY FOR FILE - NT1004192340.D

Lab ID: BLD0008-SRM1
nt10.i, 20230419B.b\ABN.m,   20-APR-2023 12:07

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: NT1004192333.D

On Column LOD for nt10.i, 20230419B.b\ABN.m, ICAL.sub = 0.0000

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

Analytical Resources, LLC
Analytical Chemists and Consultants

MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E

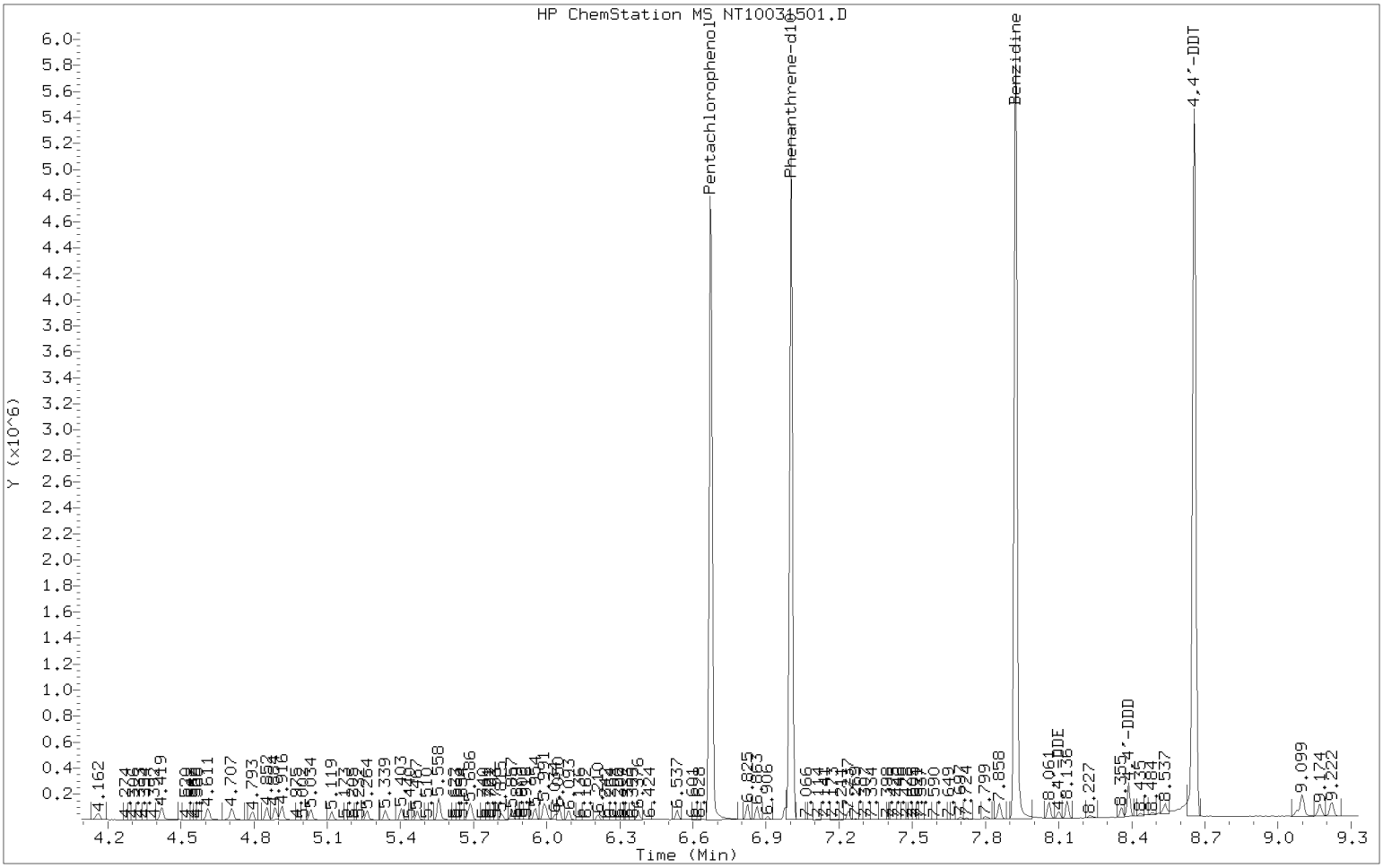
Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Lab File ID:	NT10031501.D	Injection Date:	03/15/23
Instrument ID:	NT10	Injection Time:	20:19
Sequence:	SLC0228	Lab Sample ID:	SLC0228-TUN1

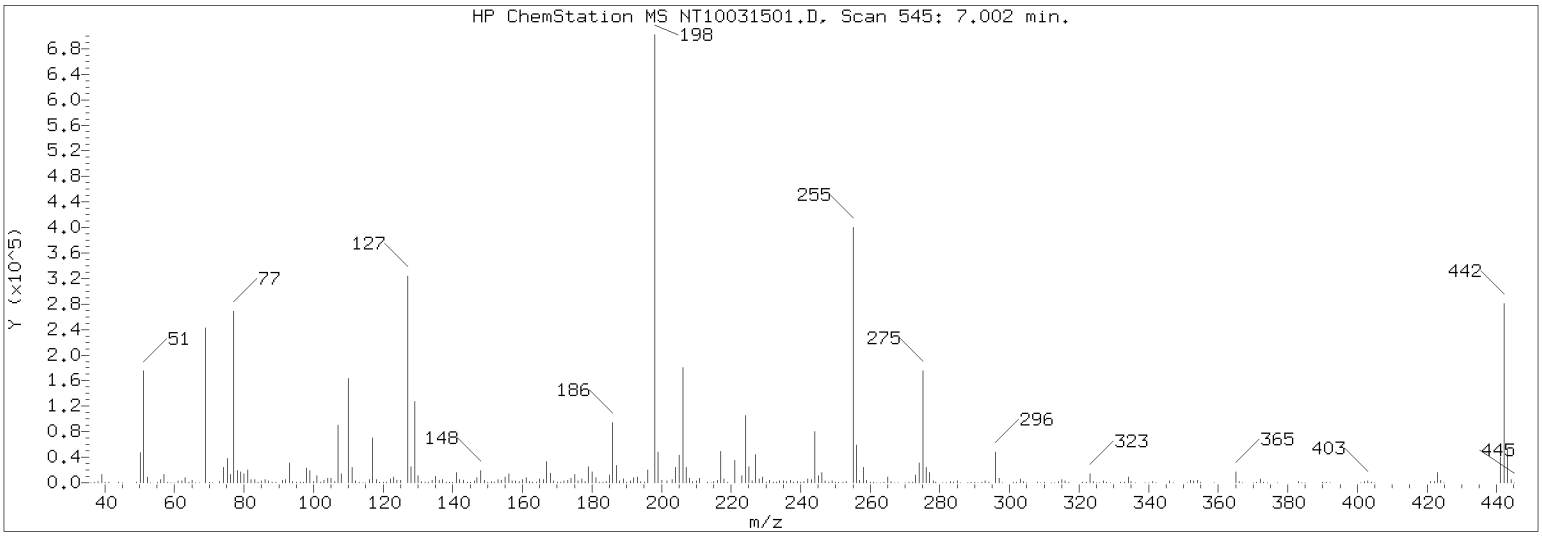
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	0.372	PASS
69	Less than 100% of 198	36.5	PASS
70	Less than 2% of 69	0.498	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.88	PASS
365	1 - 100% of 198	2.52	PASS
441	Less than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

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

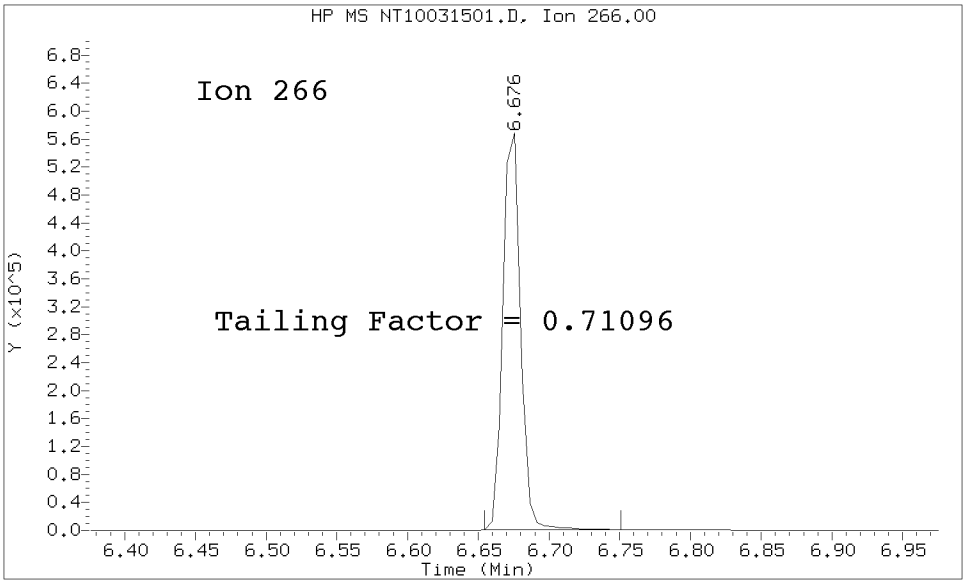
DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

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



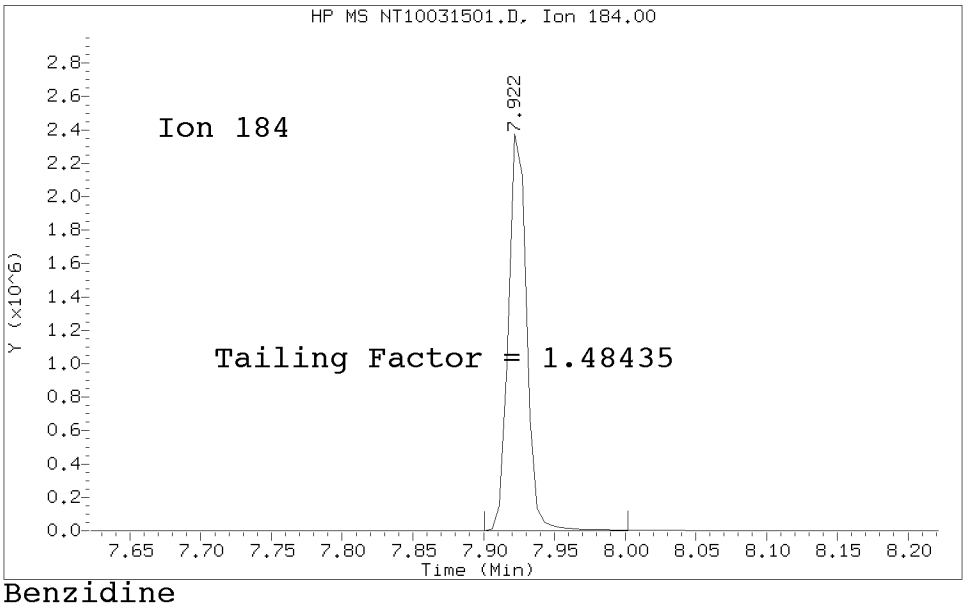


Datafile Analyzed: /20230315.b/NT10031501.D/NT10031501.D
Method Used: \20230315.b\DFTPP8270E.m\sw846ddt.m Inst: nt10
Injection Date: 15-MAR-2023 20:19 Operator: JGR
Sample Info: SEQ-TUN1
Report Date: 03/16/2023 12:23



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

Tail Factor = 0.711 Maximum Allowed = 2.0



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

Tail Factor = 1.484 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

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

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

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

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

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

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

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

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

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GC00046	Instrument:	NT10
Calibration Date:	03/15/2023	Column (1):	ZB-5MSi

Calibration Comments: 625.1/8270E ICAL

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

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GC00046	Instrument:	NT10
Calibration Date:	03/15/2023	Column (1):	ZB-5MSi

Calibration Comments: 625.1/8270E ICAL

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

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GC00046	Instrument:	NT10
Calibration Date:	03/15/2023	Column (1):	ZB-5MSi

Calibration Comments: 625.1/8270E ICAL

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

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GC00046	Instrument:	NT10
Calibration Date:	03/15/2023	Column (1):	ZB-5MSi

Calibration Comments: 625.1/8270E ICAL

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

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GC00046	Instrument:	NT10
Calibration Date:	03/15/2023	Column (1):	ZB-5MSi

Calibration Comments: 625.1/8270E ICAL

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

ANALYSIS SEQUENCE

SLC0228

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

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

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

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

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

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

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

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

Security Status Report

Date: 16-Mar-2023 13:06

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

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INITIAL CALIBRATION DATA

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

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

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

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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

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

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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

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

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INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Last Edit : 16-Mar-2023 10:24 van

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

ARI Labs, Inc.

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

ARI Labs, Inc.

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Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Last Edit : 16-Mar-2023 10:24 van

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

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Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Last Edit : 16-Mar-2023 10:24 van

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

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Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Last Edit : 16-Mar-2023 10:24 van

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

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Last Edit : 16-Mar-2023 10:24 van

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

ARI Labs, Inc.

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Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Last Edit : 16-Mar-2023 10:24 van

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

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Last Edit : 16-Mar-2023 10:24 van

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

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Start Cal Date : 15-MAR-2023 20:34
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Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
163 1,2,3,5,8-Pentachloronaphthal	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
164 1,2,3,4,6,7-Hexachloronaphtha	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
165 1,2,3,4,5,6,7-Heptachloronaph	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
166 Octachloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
167 2,2',4,4',5-Pentabromobipheny	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
3 Phenol	1.62208	1.74439	1.73891	1.74173	1.62645	1.54845					
	1.52108						AVRG		1.64901		5.72558
4 Bis(2-Chloroethyl)ether	1.27683	1.24672	1.27324	1.27820	1.20197	1.15937					
	1.12492						AVRG		1.22304		5.07805

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Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Last Edit : 16-Mar-2023 10:24 van

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

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Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Last Edit : 16-Mar-2023 10:24 van

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

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

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

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

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
47 4-Nitrophenol	+++++	10811	26972	72524	160601	346416					
	684596						QUAD	0.000e+000	5.01739	0.06496	0.99964
48 2,4-Dinitrotoluene	7302	27229	61485	155514	337620	723393					
	1405429						QUAD	0.000e+000	2.35401	0.03800	0.99969
49 Fluorene	1.40605	1.45103	1.47671	1.50043	1.40082	1.41469					
	1.36635						AVRG		1.43087		3.28917
50 Diethylphthalate	1.20144	1.24989	1.30138	1.31975	1.24786	1.27783					
	1.32643						AVRG		1.27494		3.52654
51 4-Chlorophenyl-phenylether	0.69799	0.68992	0.68629	0.69085	0.66721	0.67242					
	0.65828						AVRG		0.68042		2.13873
52 4-Nitroaniline	+++++	0.27470	0.28009	0.23607	0.29239	0.32686					
	0.30307						AVRG		0.28553		10.68771
53 4,6-Dinitro-2-methylphenol	+++++	16474	45458	137459	335578	794181					
	1560214						QUAD	0.000e+000	8.27405	-0.28973	0.99917

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

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

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

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

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

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

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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

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

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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

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

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

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

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

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

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

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

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

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

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

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

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
106	Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.243	6.243-12.243	+++++	+++++
105	1-methylnaphthalene	13.433	13.432	13.433	13.426	13.432	13.425	13.426	13.426	10.426-16.426	13.430	0.004
151	1,2,4,5-Tetrachloroben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.499	8.499-14.499	+++++	+++++
152	Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	30.943	27.943-33.943	+++++	+++++
153	Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.642	24.642-30.642	+++++	+++++
154	Diazinon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.953	22.953-28.953	+++++	+++++
155	Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.750	24.750-30.750	+++++	+++++
156	Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.464	23.464-29.464	+++++	+++++
157	Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.099	24.099-30.099	+++++	+++++
158	Ethion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.513	21.513-27.513	+++++	+++++
159	4-Nonylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.132	22.132-28.132	+++++	+++++
160	Tetraethyl Tin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.528	16.528-22.528	+++++	+++++
161	1,2,3-Trichloronaphtha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	36.246	33.246-39.246	+++++	+++++
162	1,2,3,4-Tetrachloronap	+++++	+++++	+++++	+++++	+++++	+++++	+++++	37.506	34.506-40.506	+++++	+++++
163	1,2,3,5,8-Pentachloron	+++++	+++++	+++++	+++++	+++++	+++++	+++++	38.893	35.893-41.893	+++++	+++++
164	1,2,3,4,6,7-Hexachloro	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.681	36.681-42.681	+++++	+++++
165	1,2,3,4,5,6,7-Heptachl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	41.123	38.123-44.123	+++++	+++++
166	Octachloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.253	39.253-45.253	+++++	+++++
167	2,2',4,4',5-Pentabromo	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.033	39.033-45.033	+++++	+++++
$ 2	Phenol-d5	8.652	8.644	8.637	8.629	8.636	8.637	8.637	8.637	5.637-11.637	8.639	0.007
3	Phenol	8.675	8.659	8.660	8.660	8.652	8.660	8.652	8.652	5.652-11.652	8.660	0.008
4	Bis(2-Chloroethyl)ethe	8.845	8.845	8.837	8.838	8.837	8.837	8.838	8.838	5.838-11.838	8.840	0.004
$ 5	2-Chlorophenol-d4	8.938	8.937	8.930	8.930	8.930	8.930	8.930	8.930	5.930-11.930	8.932	0.004

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

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

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

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

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

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

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

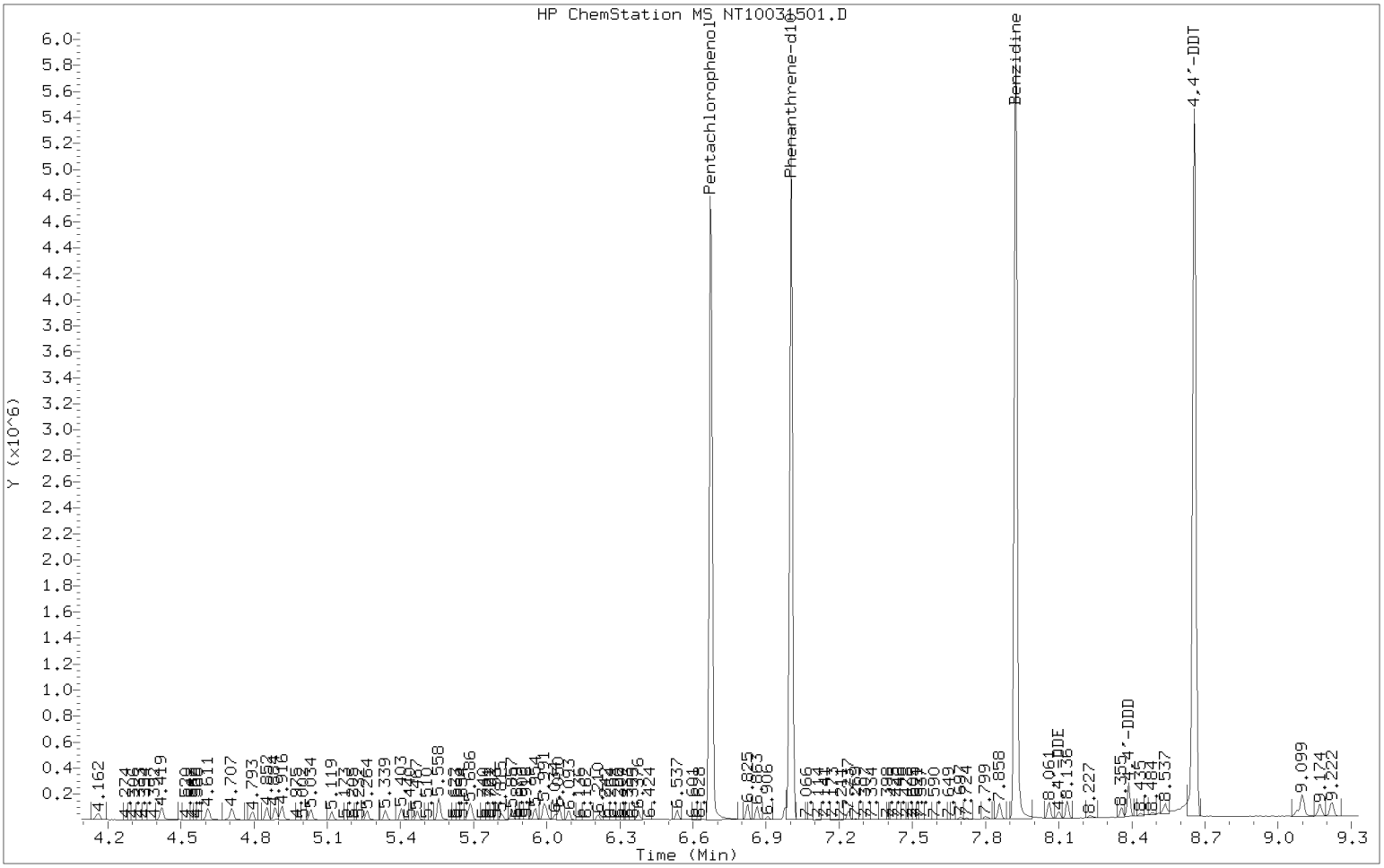
ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

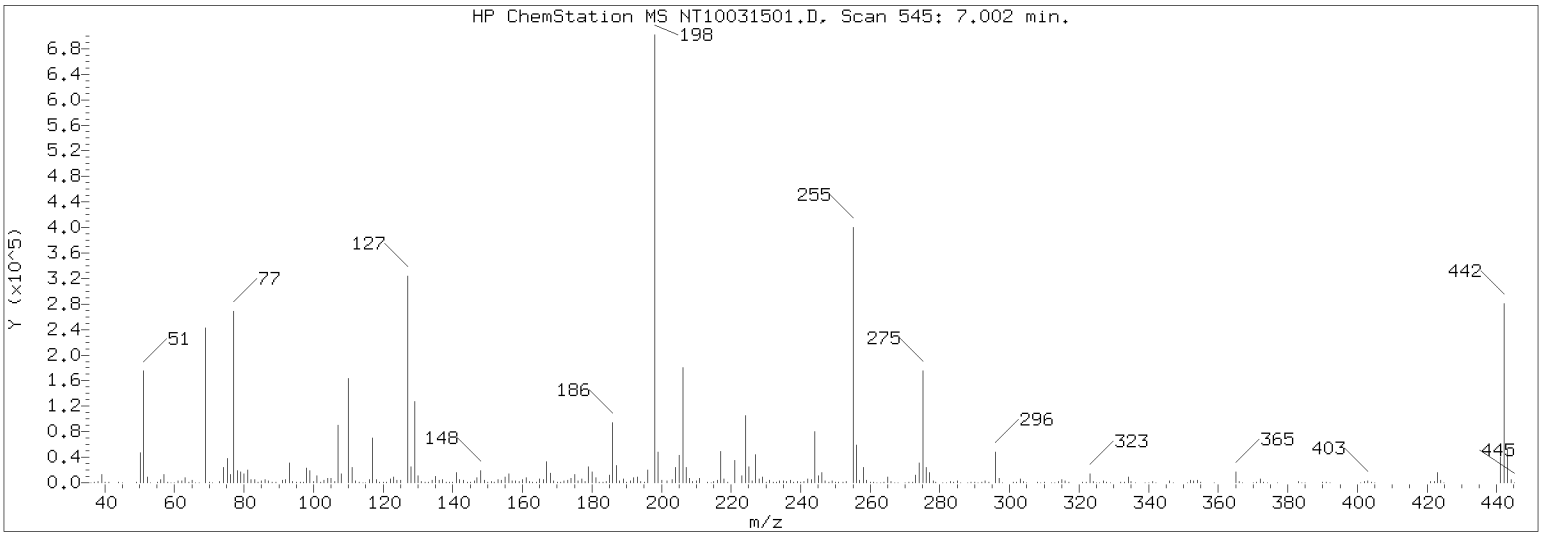
Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230315.b
Inst ID: nt10.i

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

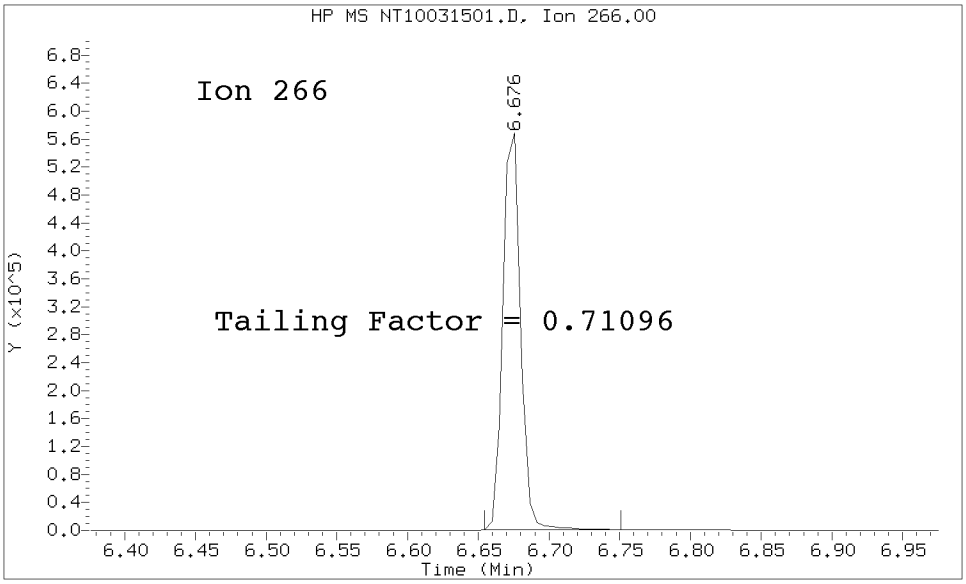
DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

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



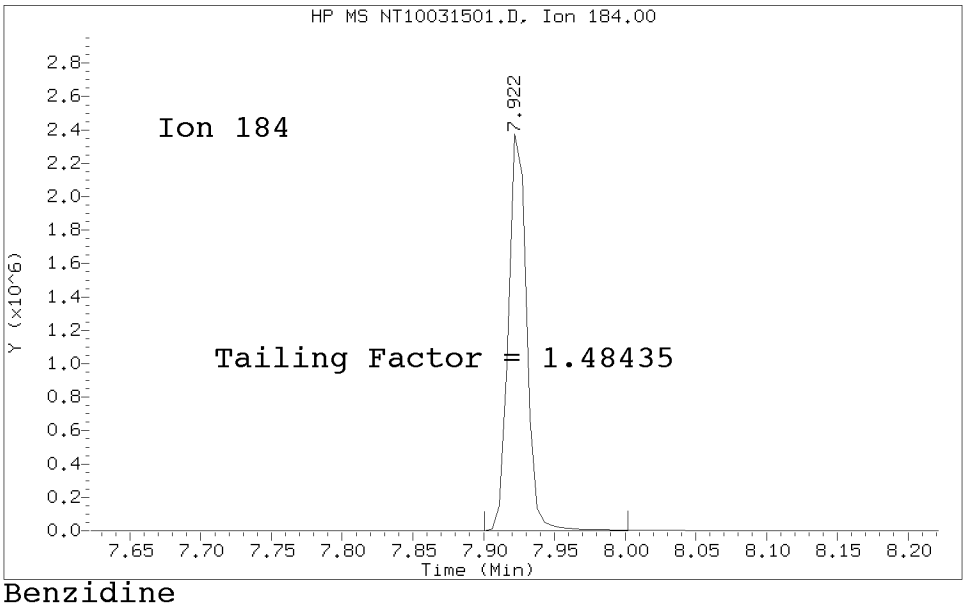


Datafile Analyzed: /20230315.b/NT10031501.D/NT10031501.D
Method Used: \20230315.b\DFTPP8270E.m\sw846ddt.m Inst: nt10
Injection Date: 15-MAR-2023 20:19 Operator: JGR
Sample Info: SEQ-TUN1
Report Date: 03/16/2023 12:23



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

Tail Factor = 0.711 Maximum Allowed = 2.0



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

Tail Factor = 1.484 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

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

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

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

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

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

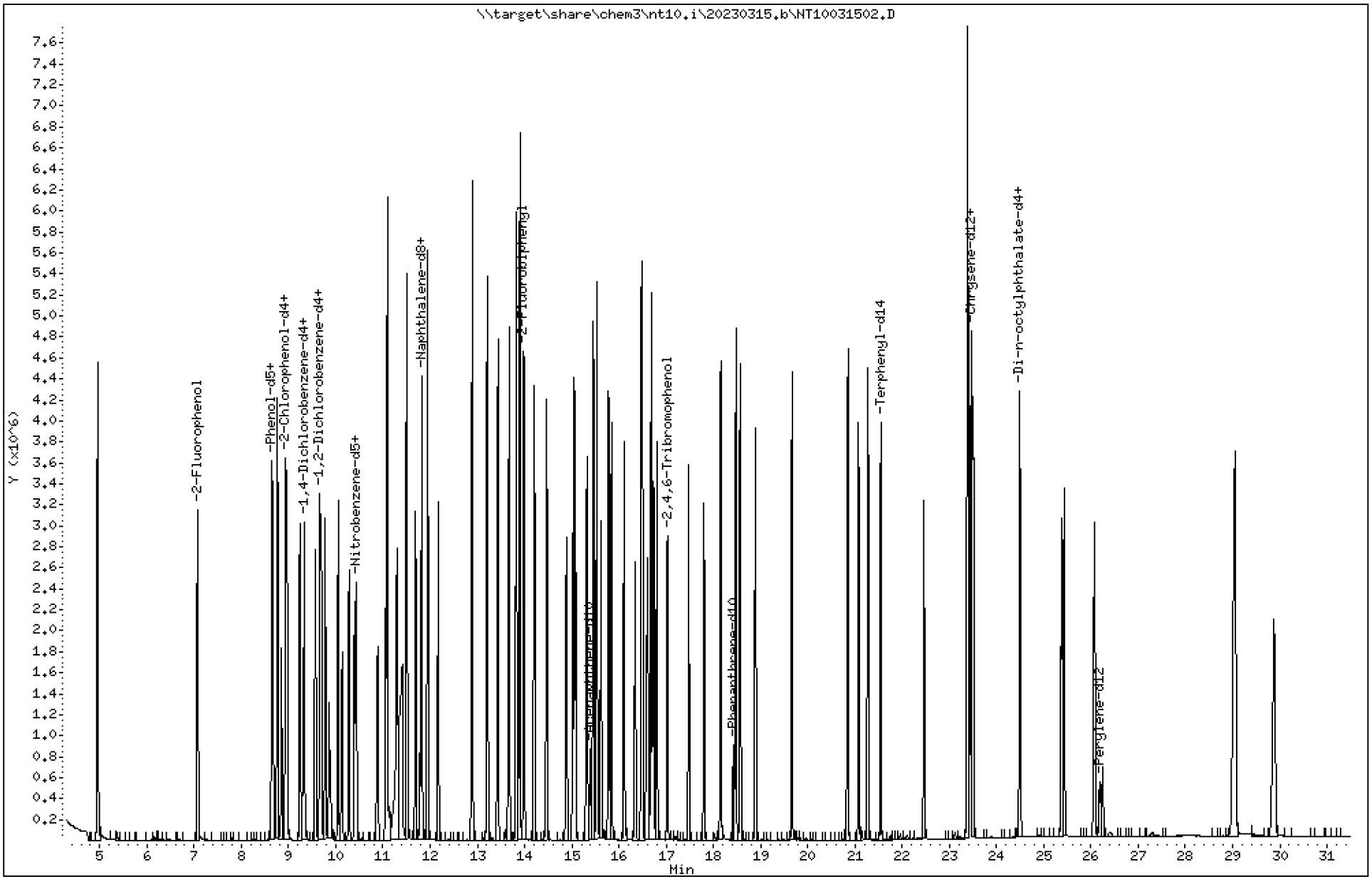
Data File: NT10031501.D
Spectrum: Avg. Scans 544-546 (7.00), Background Scan 536
Location of Maximum: 198.00
Number of points: 316

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

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

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

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



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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

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

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

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

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

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

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

Test Mode:
Use Last Continuing Calibrator.

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

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

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

REVIEW SUMMARY FOR FILE - NT10031502.D

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

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

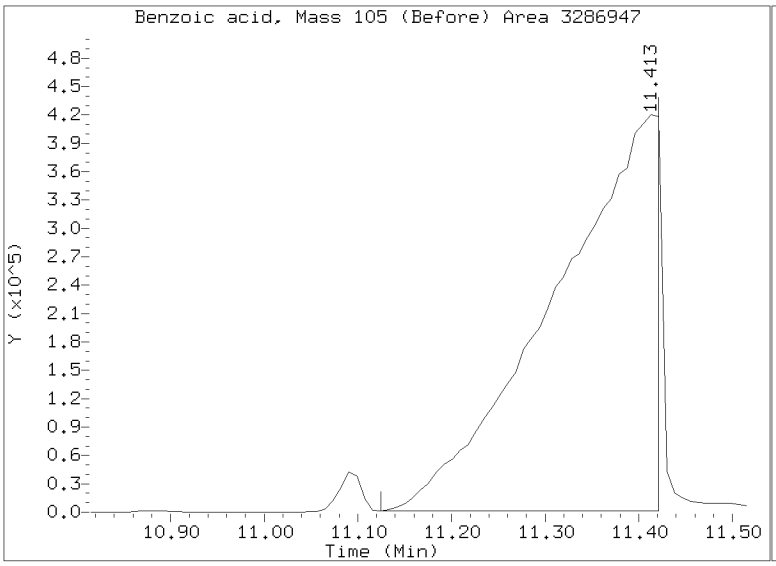
RRT check based on Ccal File: NT10031508.D

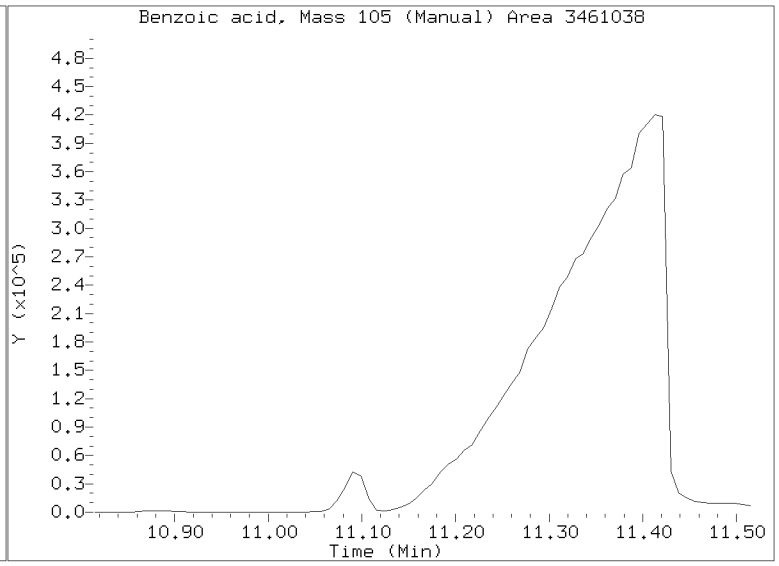
On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

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





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

Date : 15-MAR-2023 21:12

Client ID:

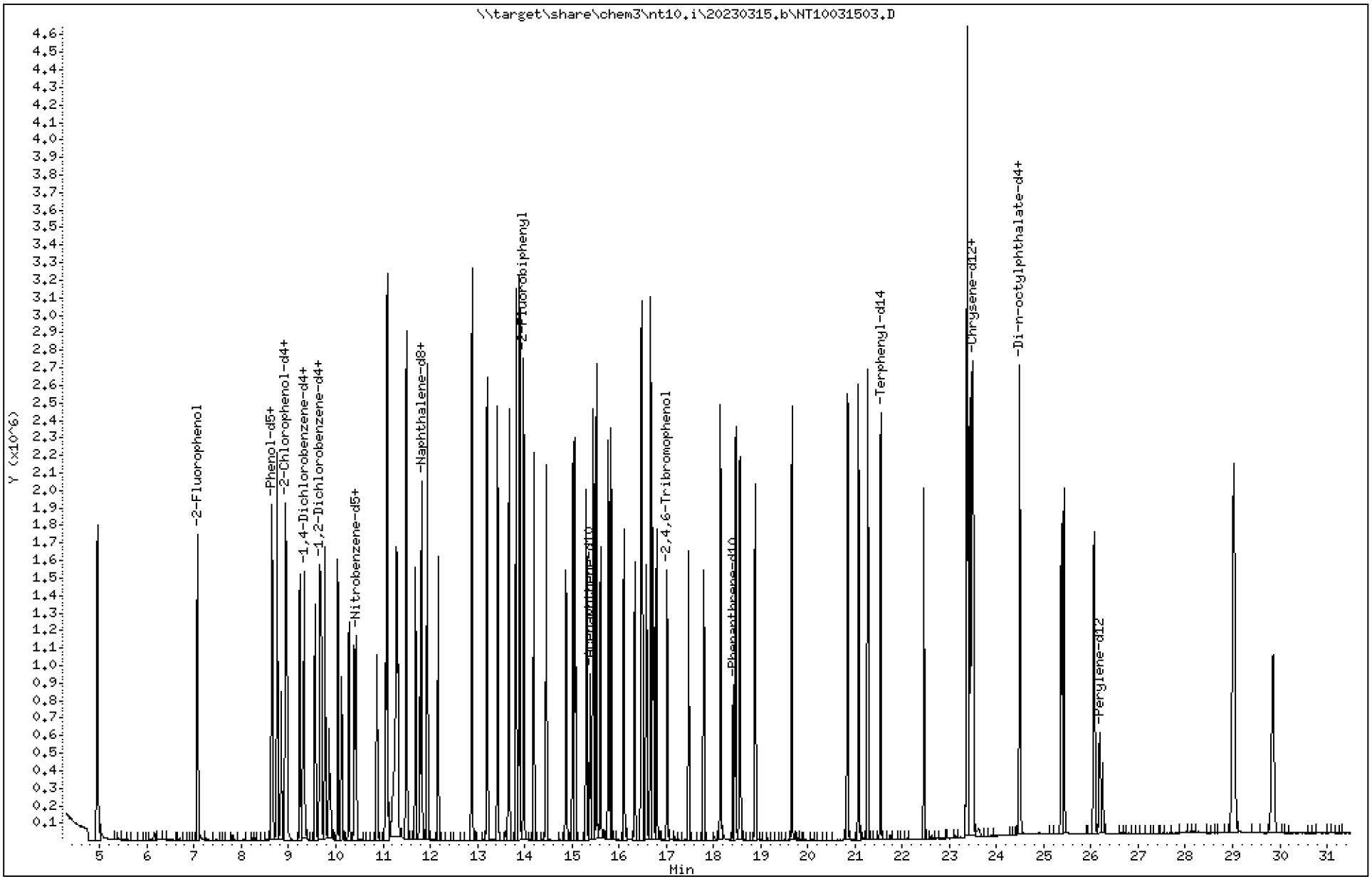
Instrument: nt10.i

Sample Info: SLC0228-CAL6

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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

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

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

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

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

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

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

Test Mode:
Use Last Continuing Calibrator.

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

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

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

REVIEW SUMMARY FOR FILE - NT10031503.D

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

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

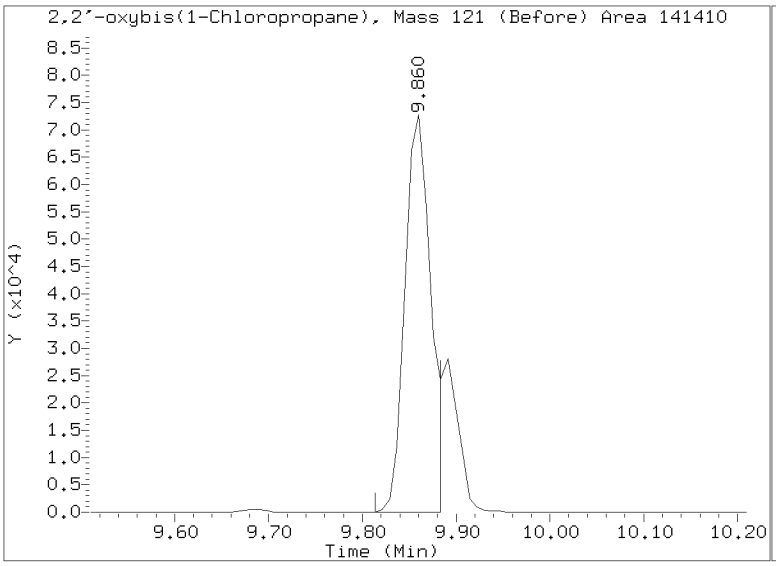
RRT check based on Ccal File: NT10031508.D

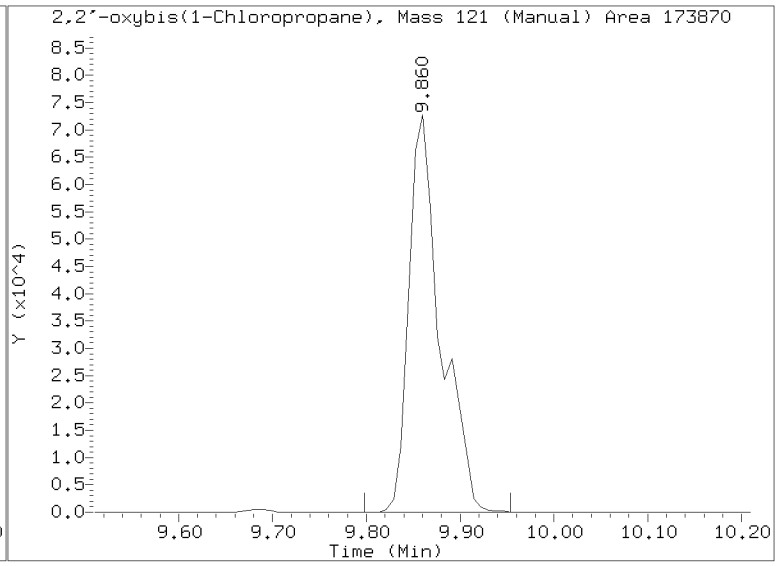
On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

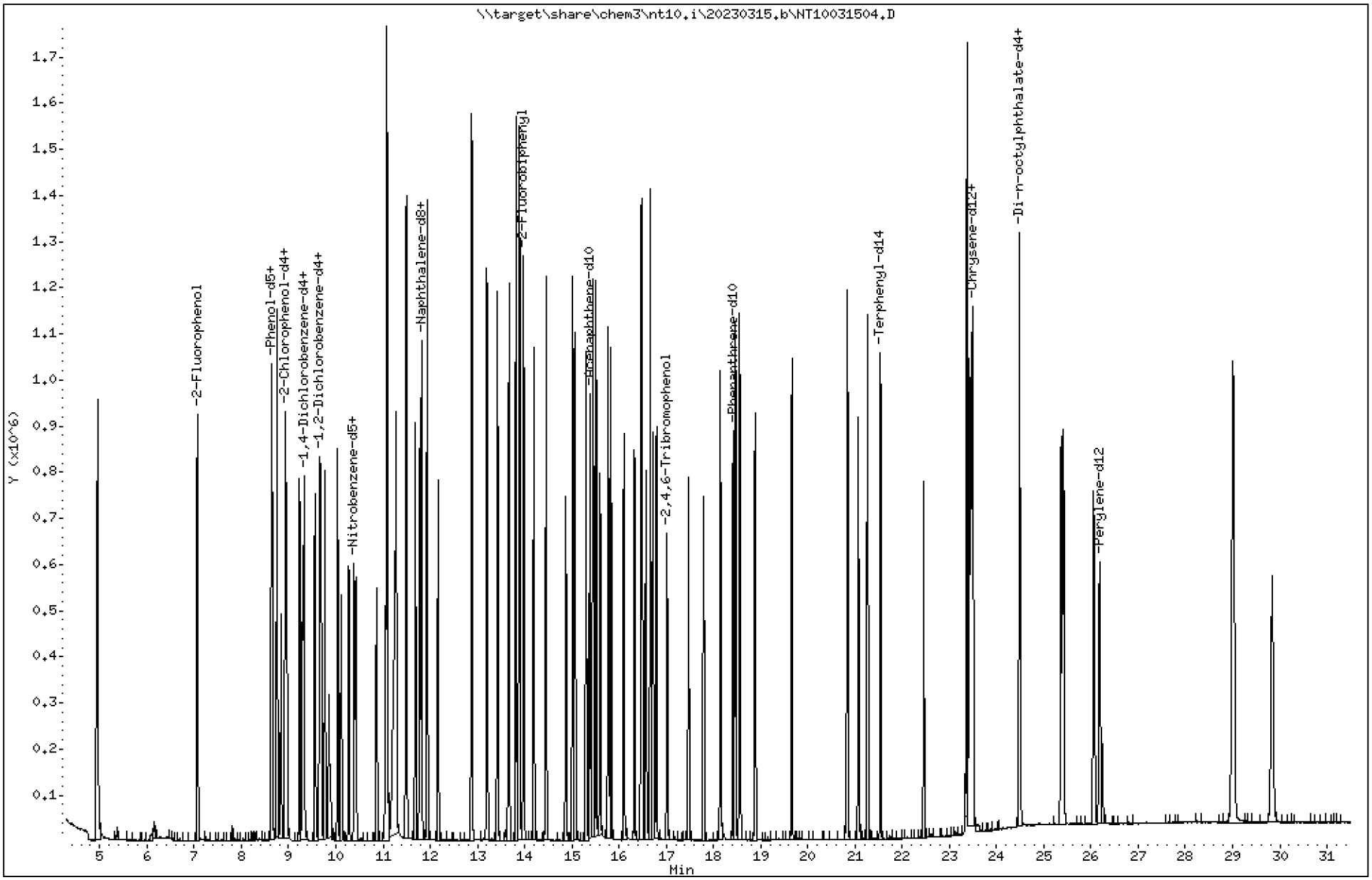
Datafile: //target/share/chem3/nt10.i/20230315.b/NT10031503.D
Injection Date: 15-MAR-2023 21:12
Lab ID:SLC0228-CAL6 Client ID:
Report Date: 03/16/2023 12:20





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

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



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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

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

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

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

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

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

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

Test Mode:
Use Last Continuing Calibrator.

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

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

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

REVIEW SUMMARY FOR FILE - NT10031504.D

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

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

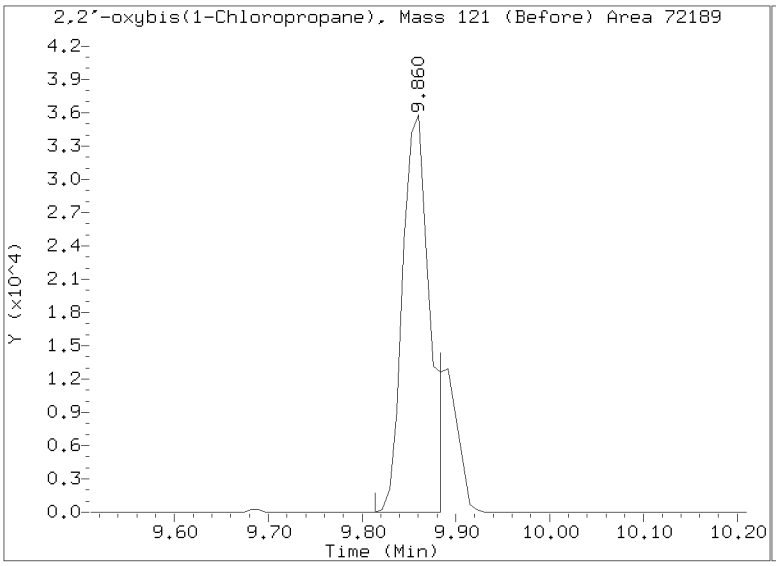
RRT check based on Ccal File: NT10031508.D

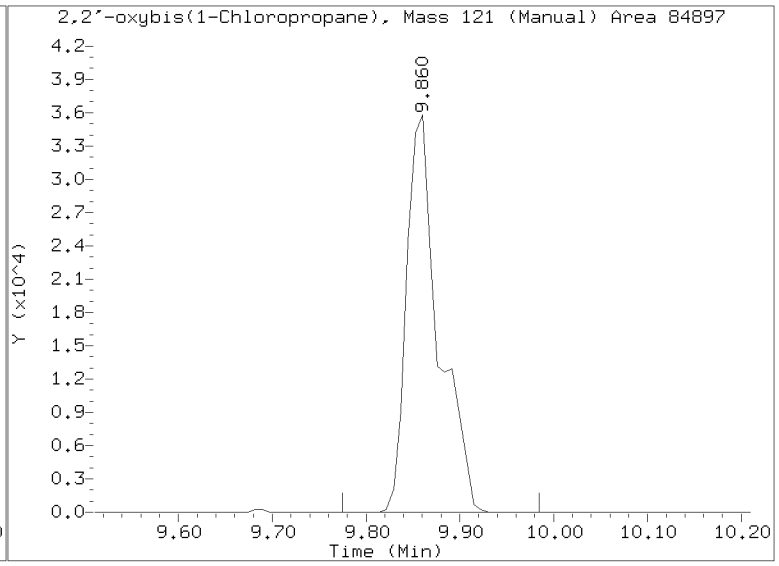
On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

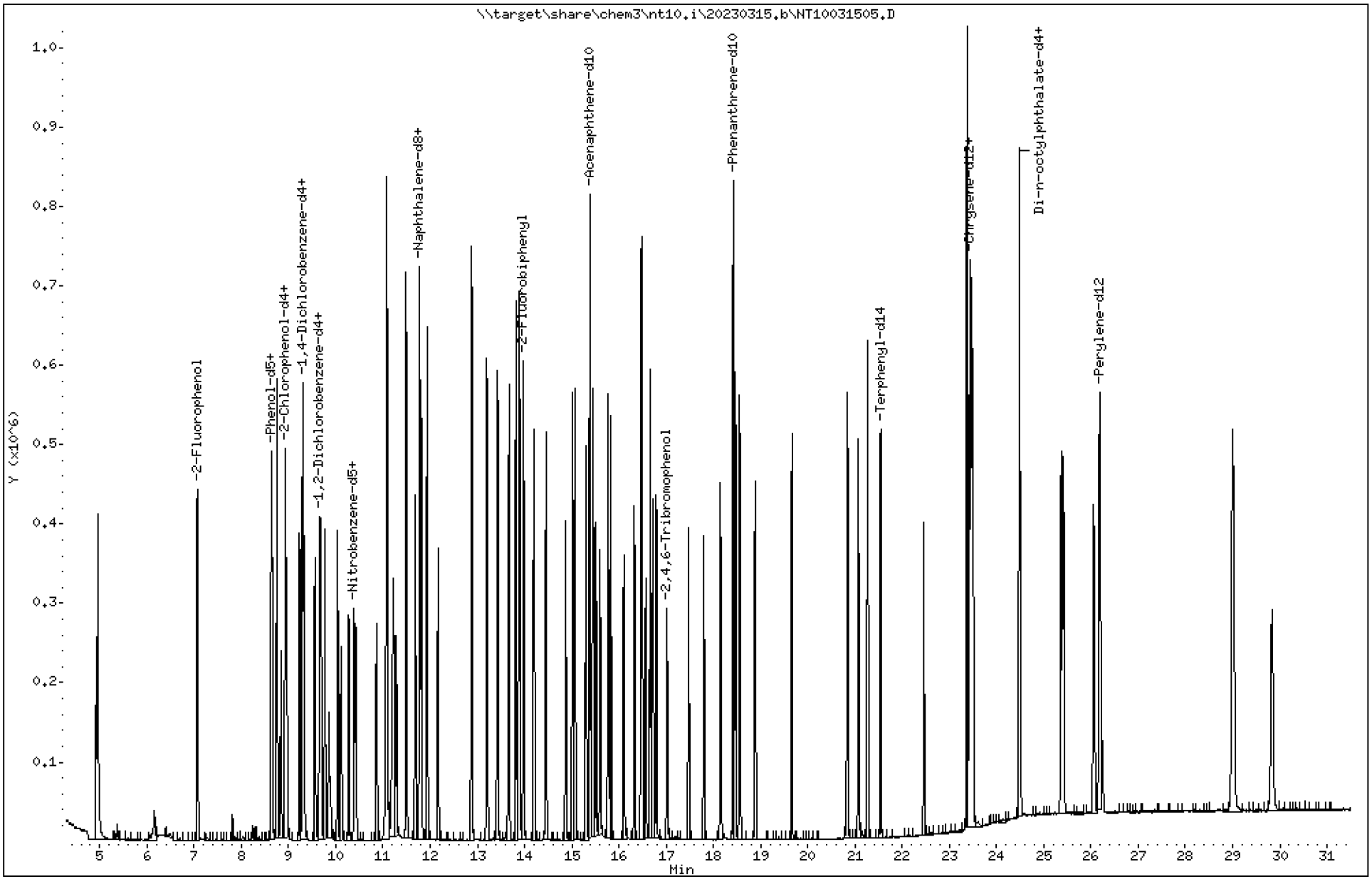
Datafile: //target/share/chem3/nt10.i/20230315.b/NT10031504.D
Injection Date: 15-MAR-2023 21:50
Lab ID:SLC0228-CAL5 Client ID:
Report Date: 03/16/2023 12:20





Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031505.D
Date : 15-MAR-2023 22:28
Client ID:
Sample Info: SLC0228-CAL4

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



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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

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

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

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

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

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

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

Test Mode:
Use Last Continuing Calibrator.

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

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

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

REVIEW SUMMARY FOR FILE - NT10031505.D

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

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.953	0.000	0.9532	Benzoic acid

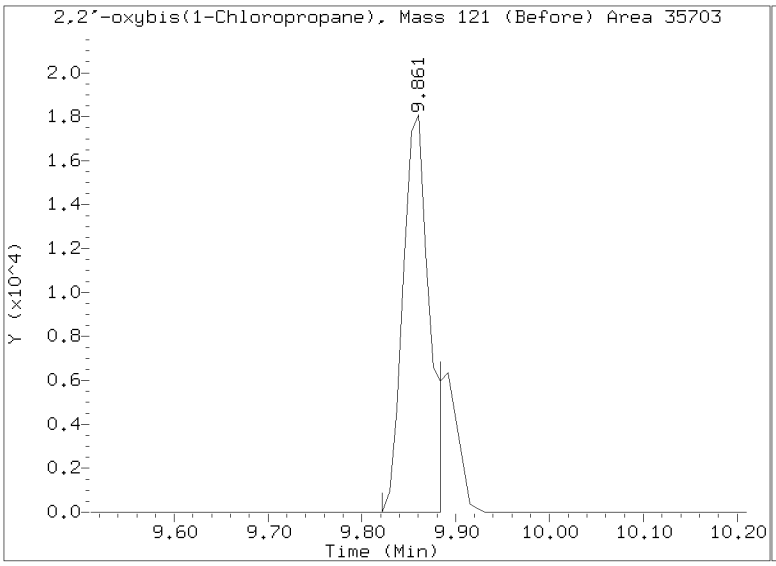
RRT check based on Ccal File: NT10031508.D

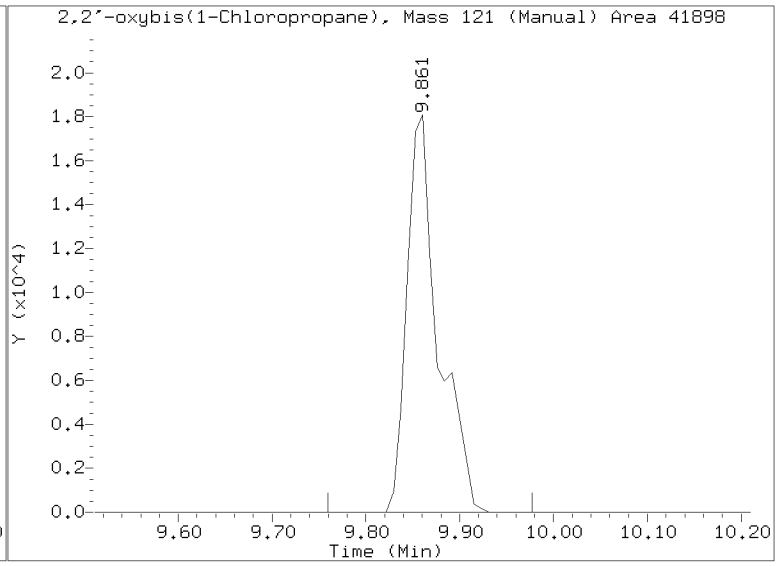
On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

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





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

Page 1

Date : 15-MAR-2023 23:06

Client ID:

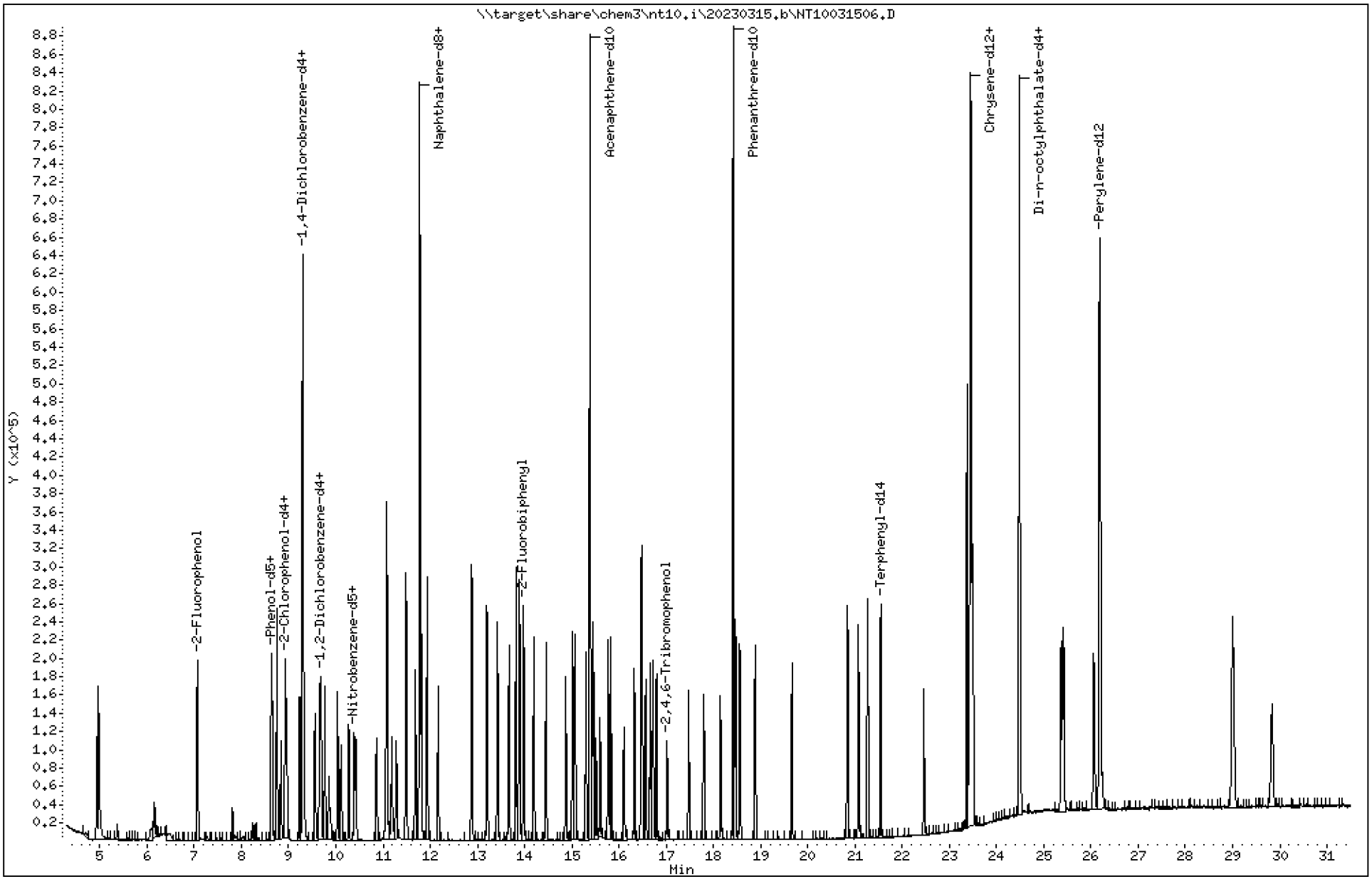
Instrument: nt10.i

Sample Info: SLC0228-CAL3

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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

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

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

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

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

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

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

Test Mode:
Use Last Continuing Calibrator.

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

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

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

REVIEW SUMMARY FOR FILE - NT10031506.D

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

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.950	0.000	0.9496	Benzoic acid

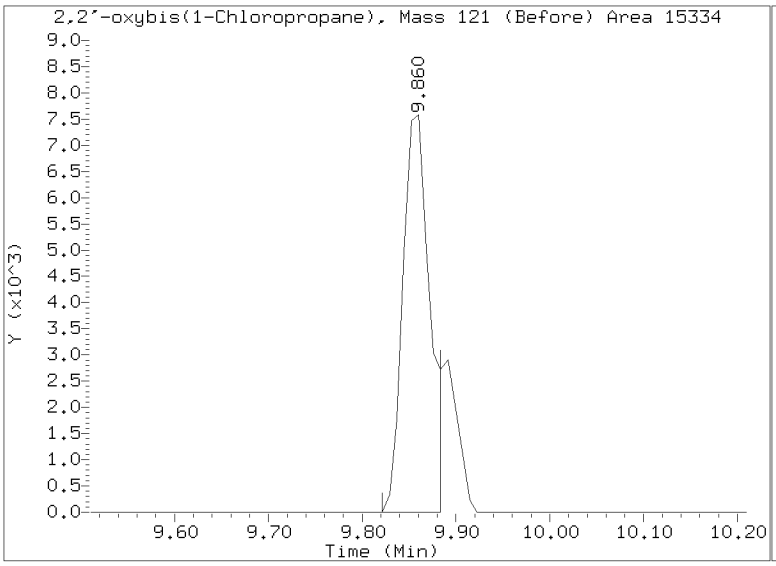
RRT check based on Ccal File: NT10031508.D

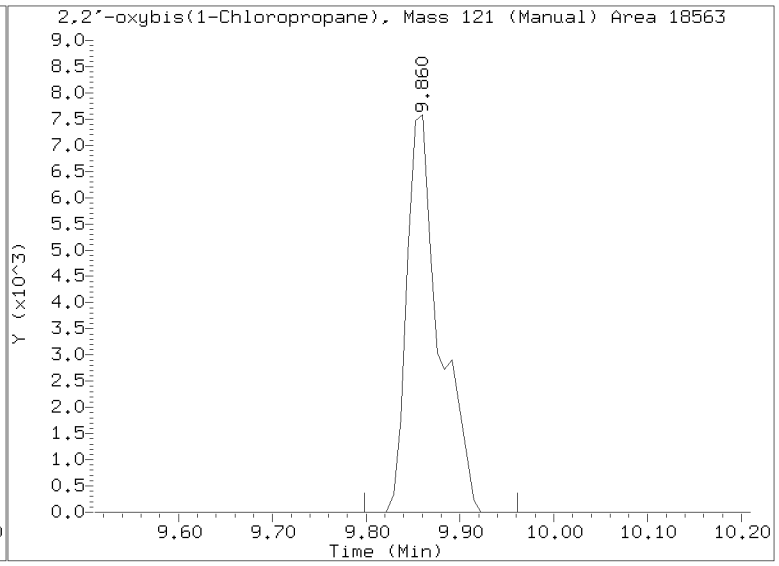
On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

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





Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031507.D

Page 1

Date : 15-MAR-2023 23:44

Client ID:

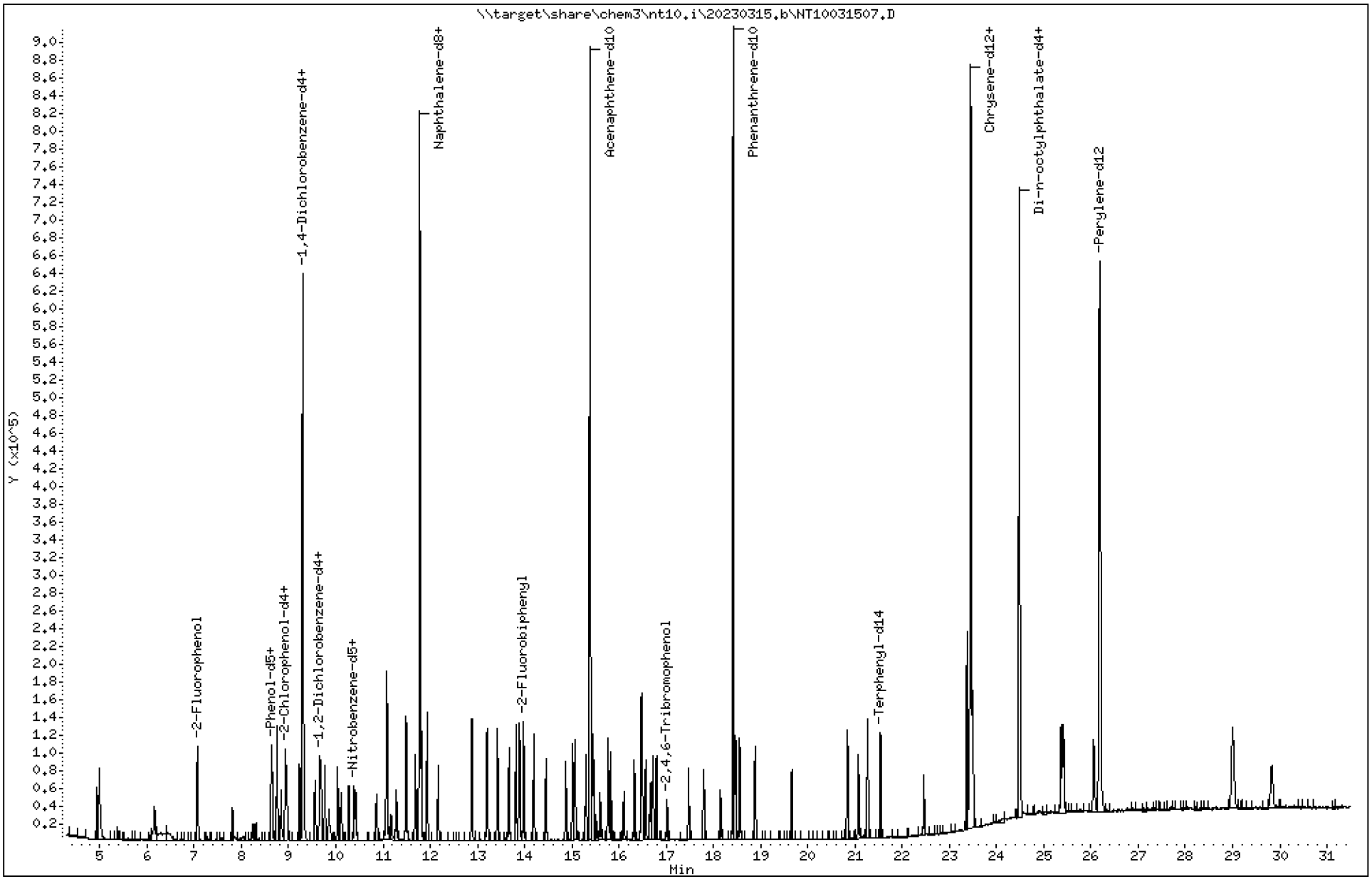
Instrument: nt10.i

Sample Info: SLC0228-CAL2

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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

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

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

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

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

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

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

Test Mode:
Use Last Continuing Calibrator.

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

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

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

REVIEW SUMMARY FOR FILE - NT10031507.D

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

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.948	0.000	0.9481	Benzoic acid

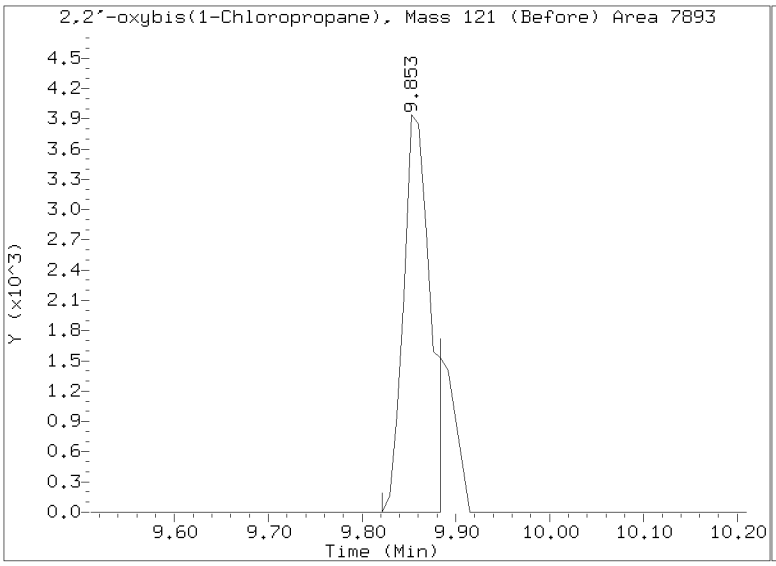
RRT check based on Ccal File: NT10031508.D

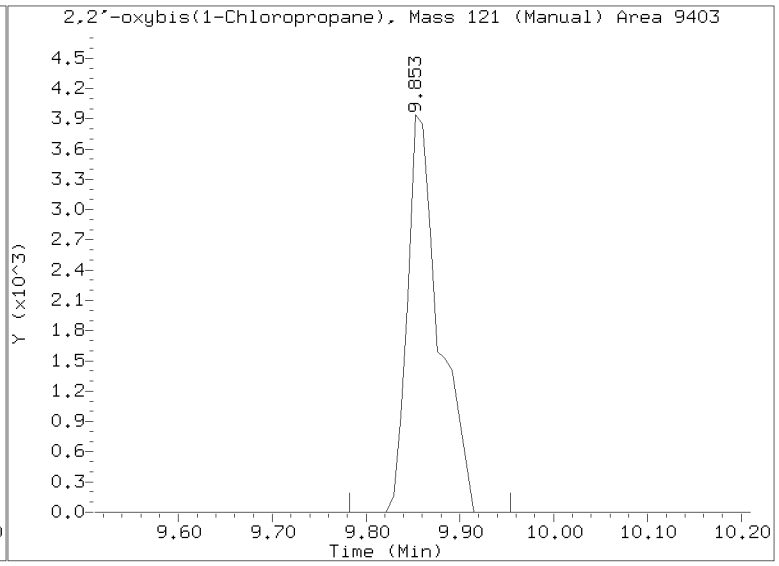
On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

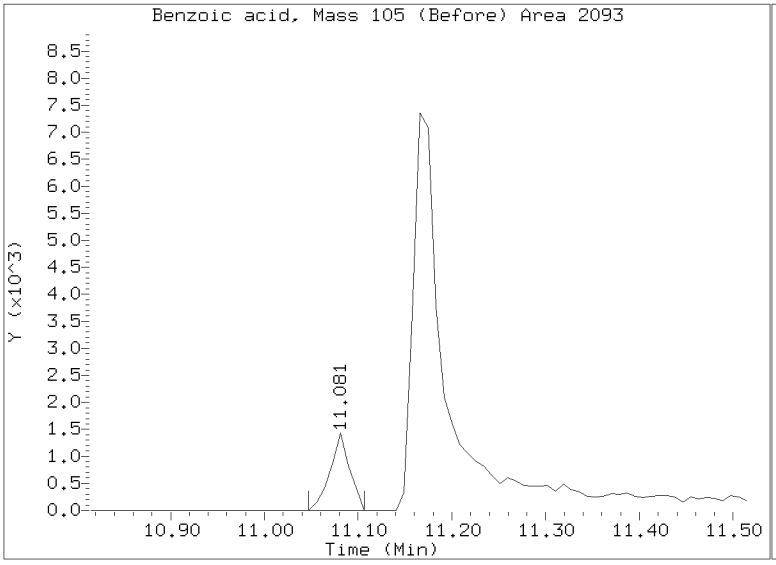
* Only compounds listed in the work order have been verified by the analyst *

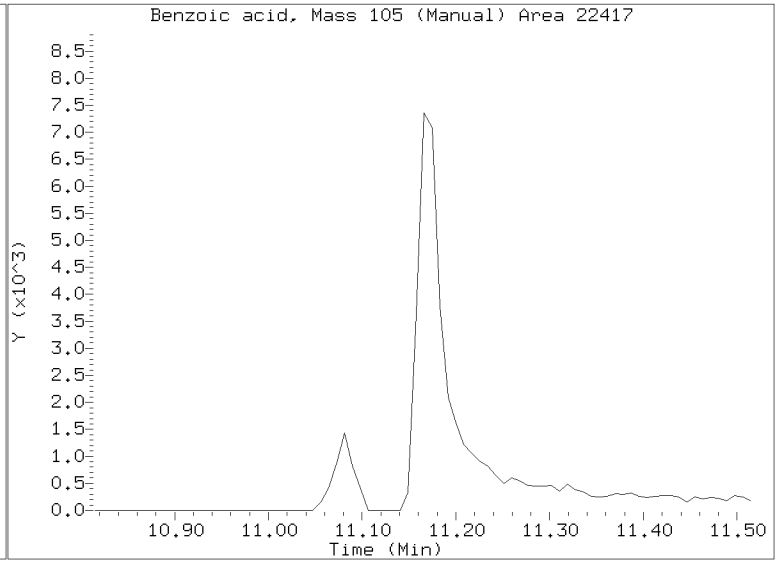
Quant Ion Manual Peak Adjustment Report

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



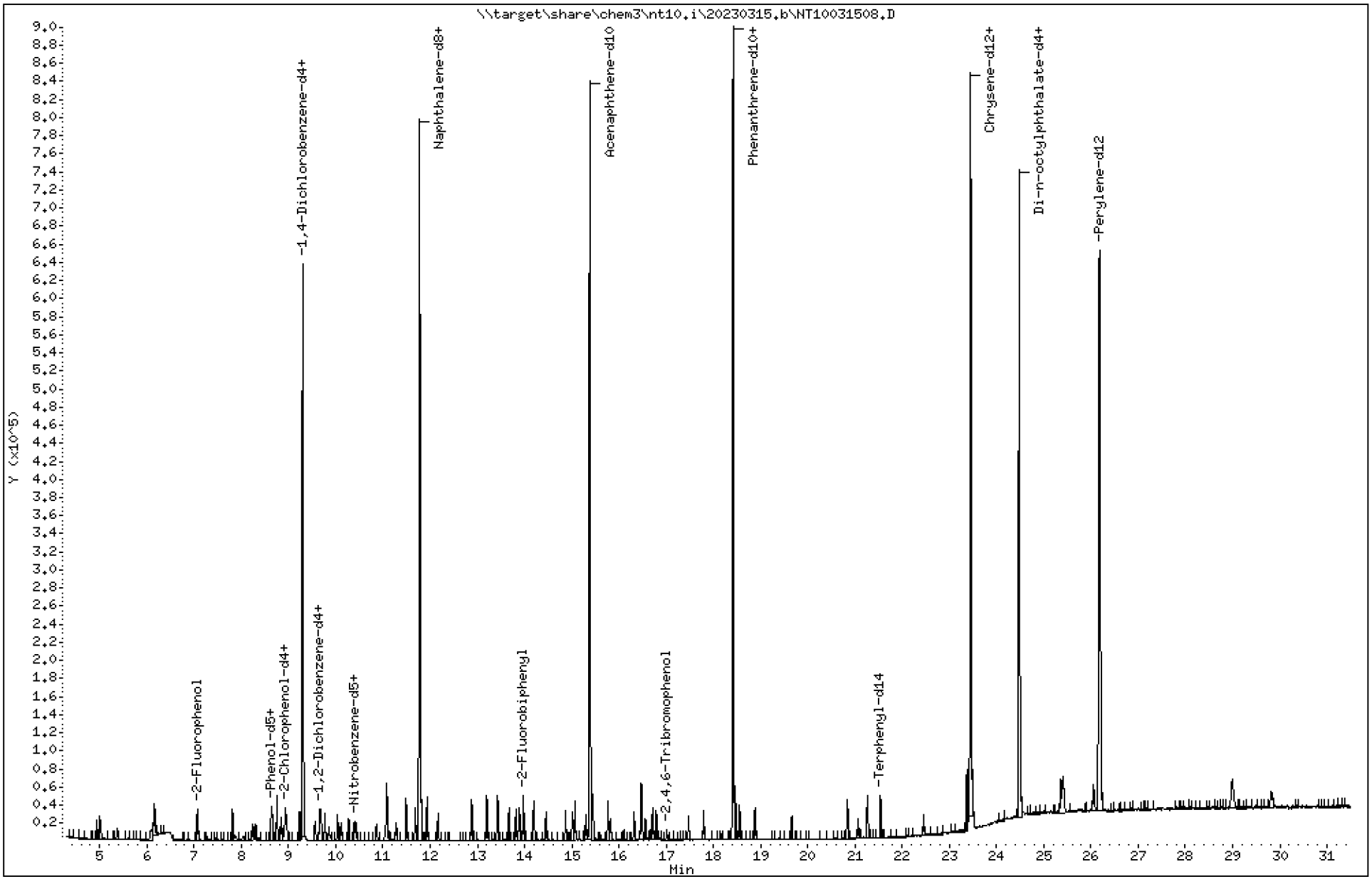






Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031508.D
Date : 16-MAR-2023 00:22
Client ID:
Sample Info: SLC0228-CAL1

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



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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

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

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

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

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

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

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

Test Mode:
Use Last Continuing Calibrator.

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

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

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

REVIEW SUMMARY FOR FILE - NT10031508.D

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

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

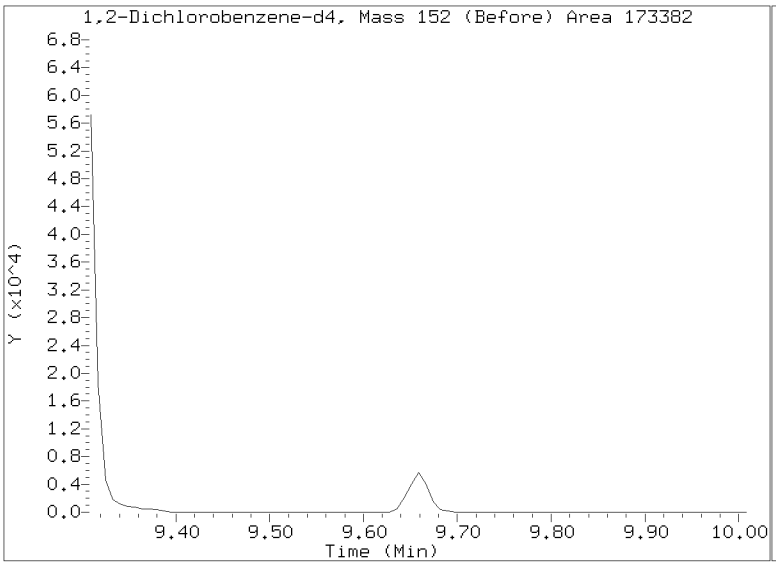
RRT check based on Ccal File: NT10031508.D

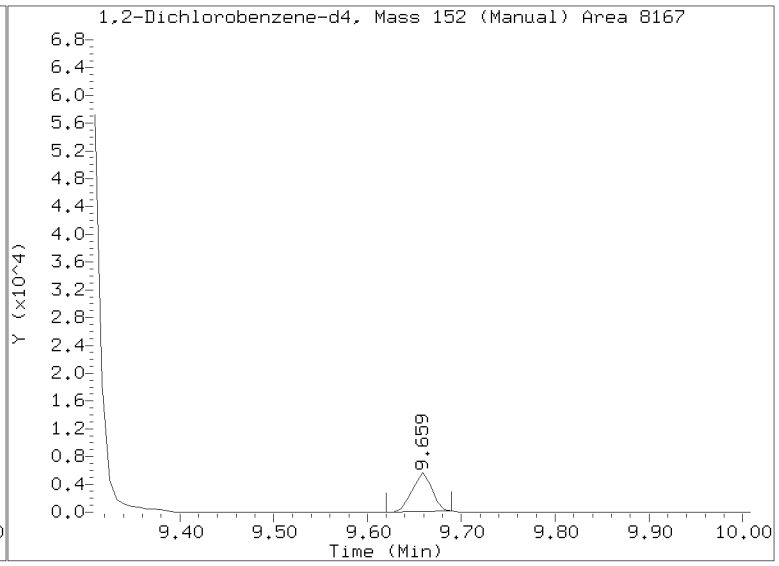
On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

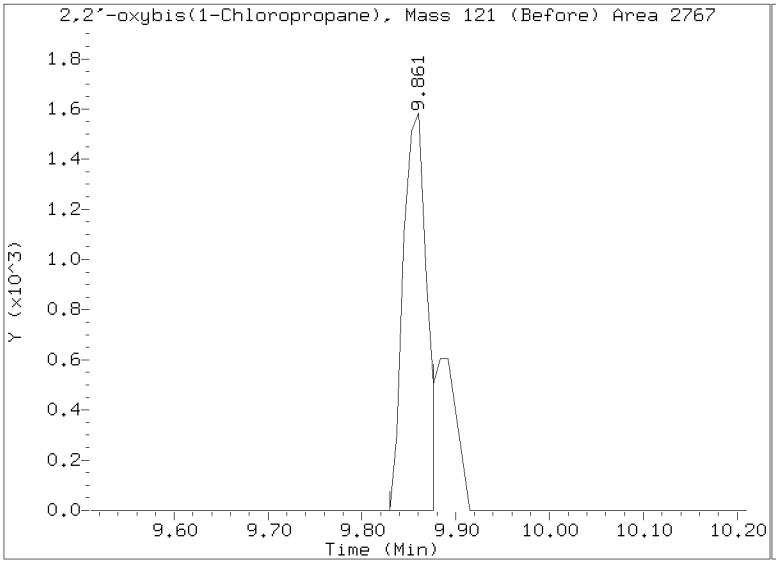
* Only compounds listed in the work order have been verified by the analyst *

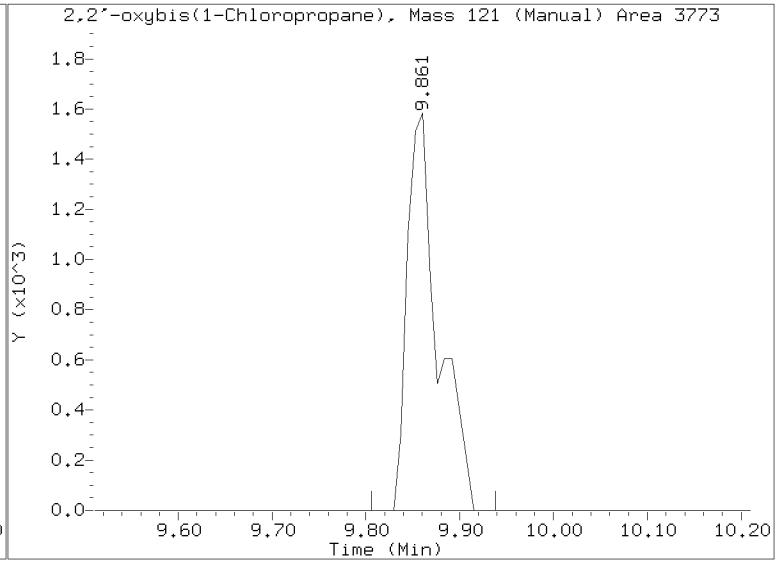
Quant Ion Manual Peak Adjustment Report

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









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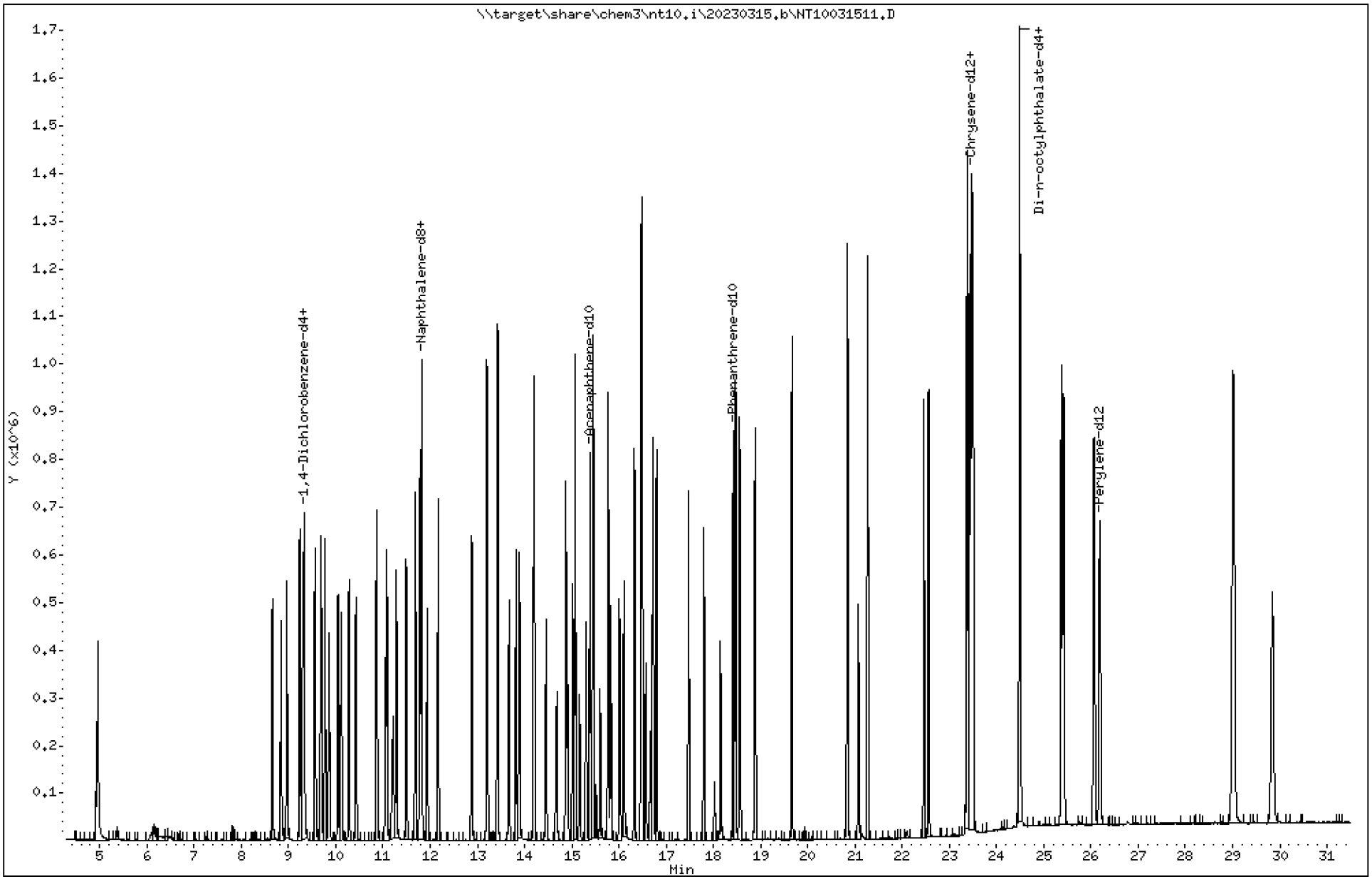
Date : 16-MAR-2023 02:16
Client ID:
Sample Info: SLC0228-SCV1

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



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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

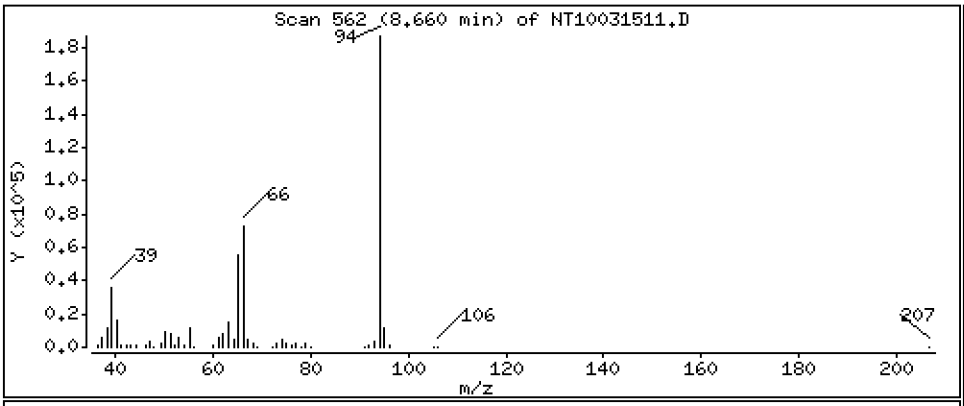
Operator: VTS

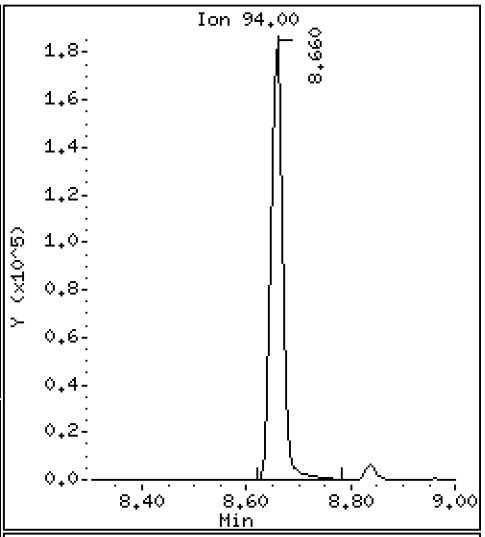
Column phase: ZB-5msi

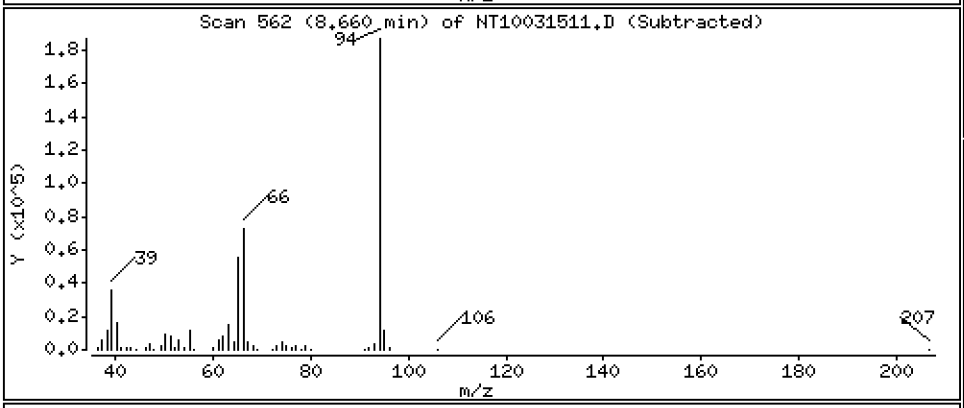
Column diameter: 0.25

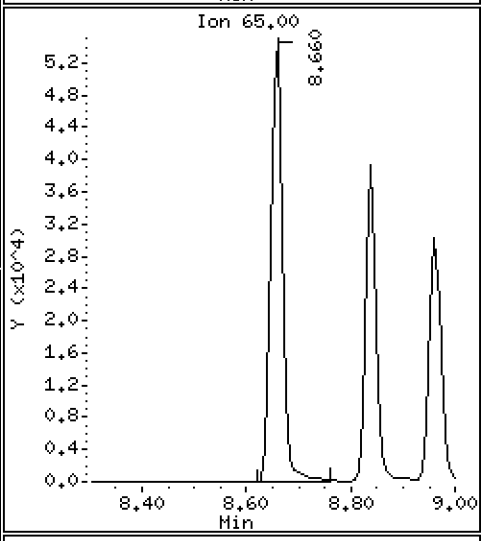
3 Phenol

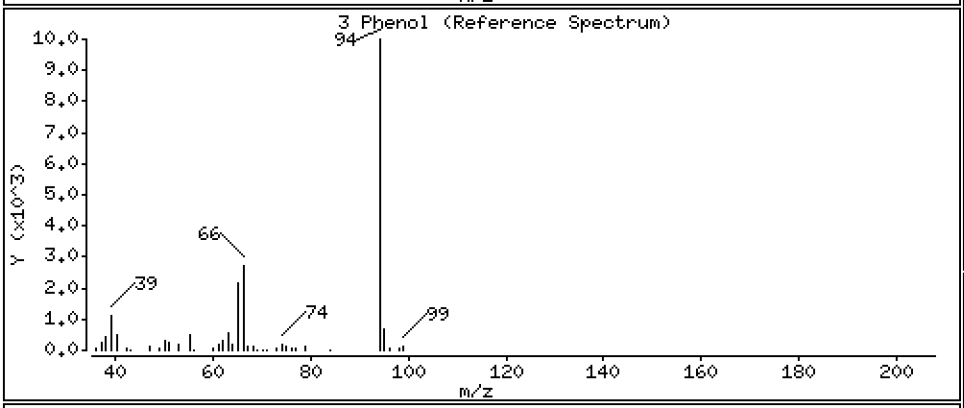
Concentration: 4.412 ug/mL

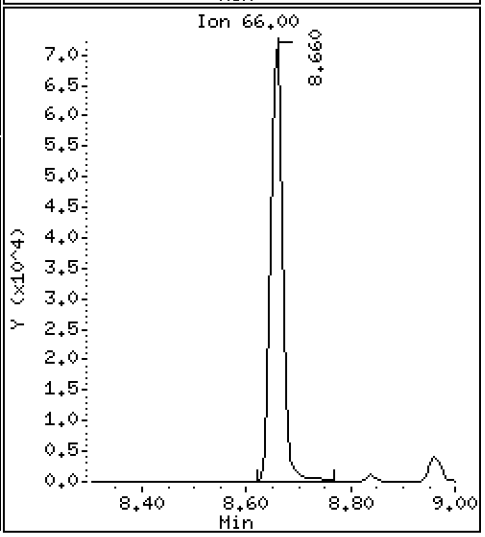


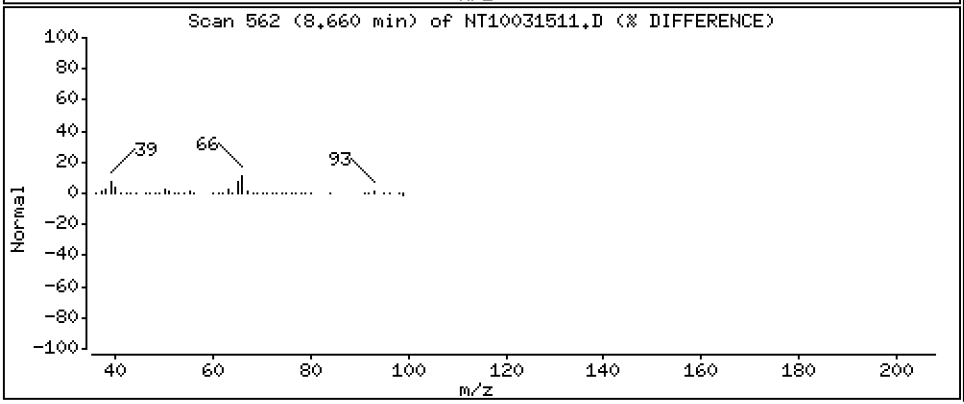












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

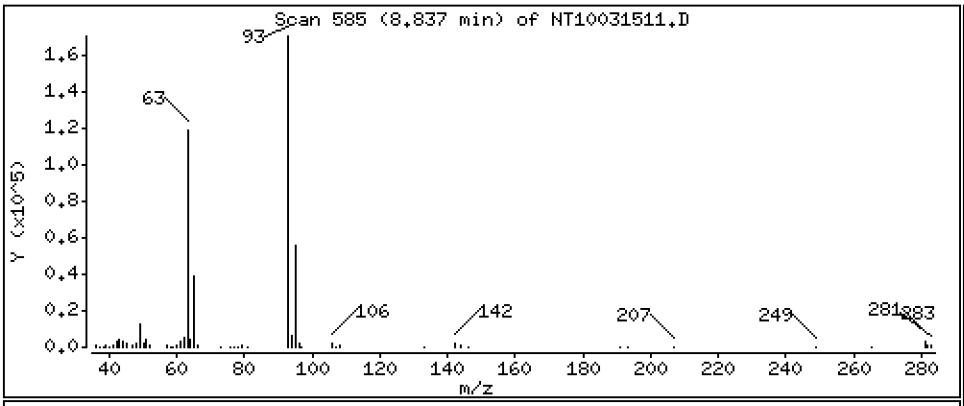
Operator: VTS

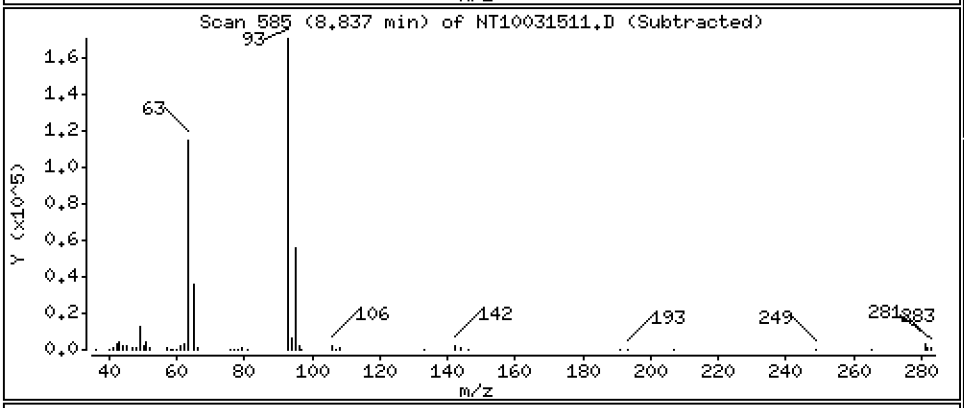
Column phase: ZB-5msi

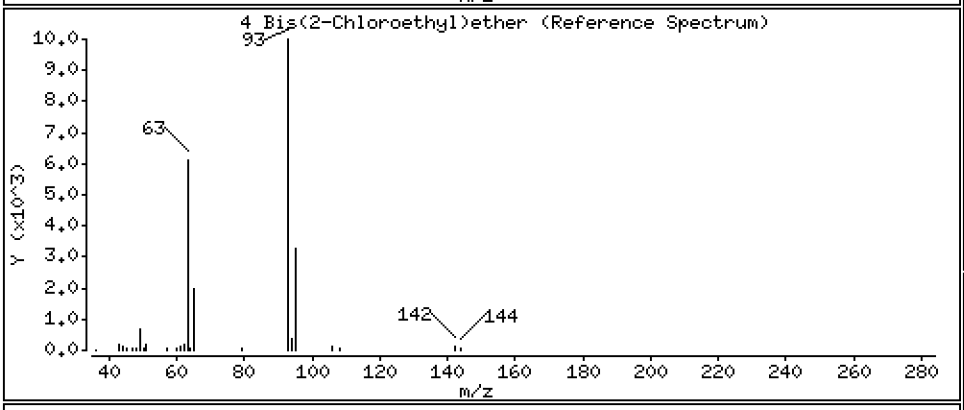
Column diameter: 0.25

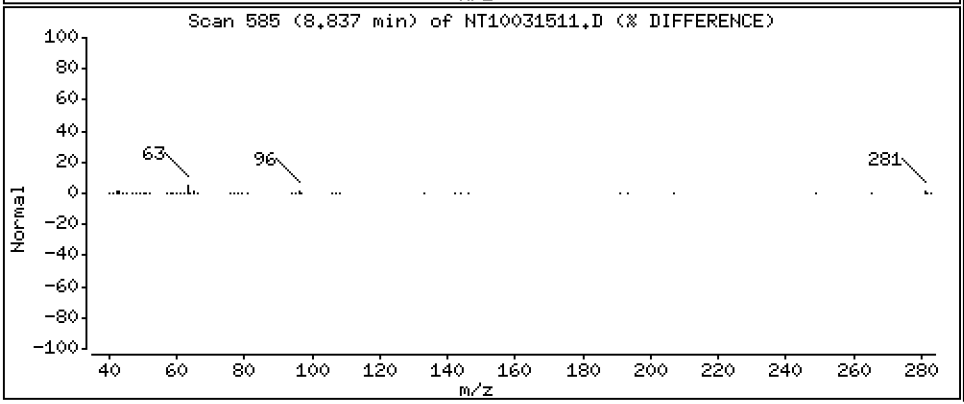
4 Bis(2-Chloroethyl)ether

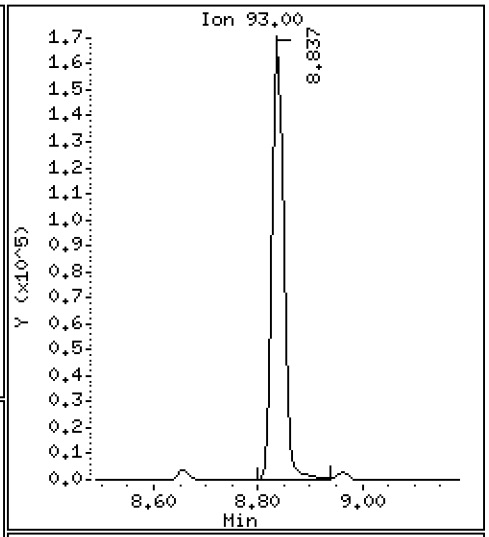
Concentration: 5.258 ug/mL

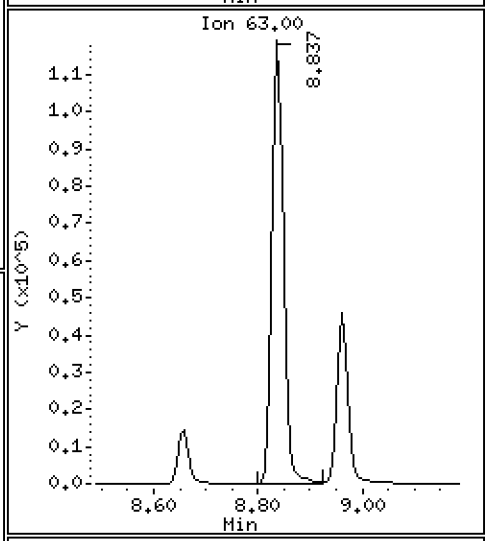


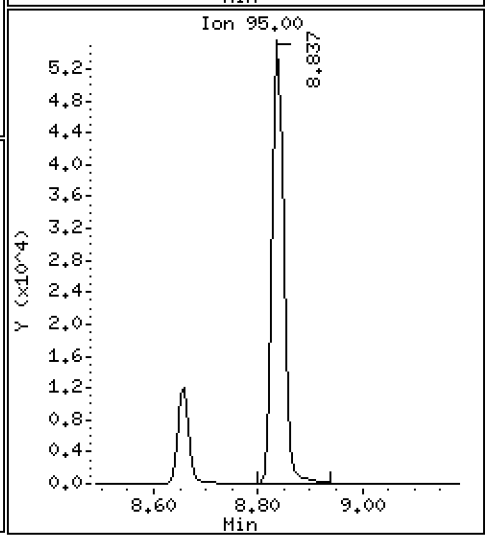












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

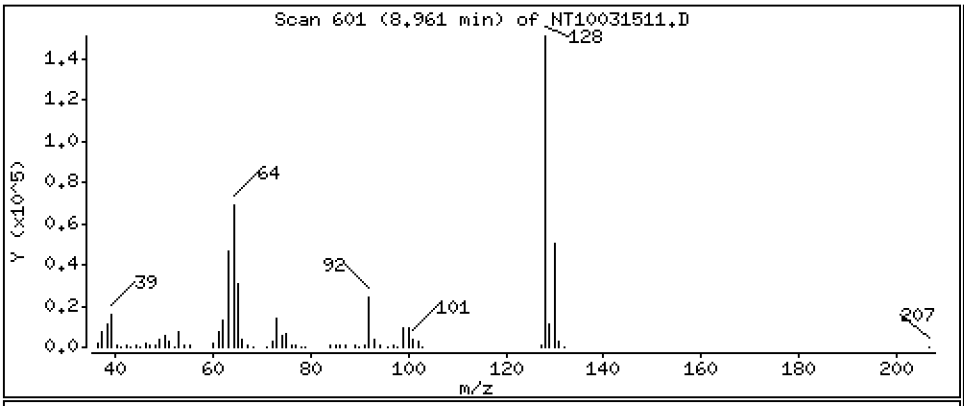
Operator: VTS

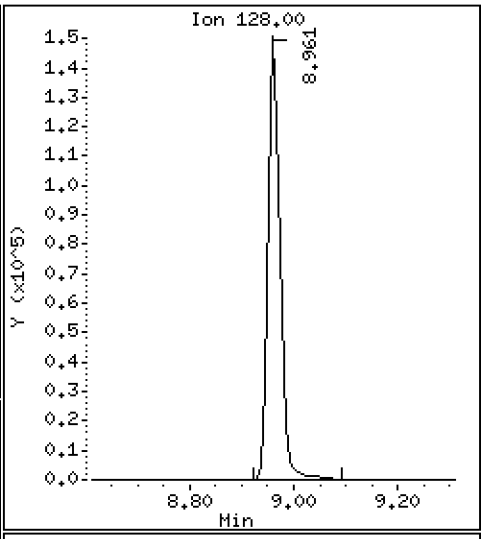
Column phase: ZB-5msi

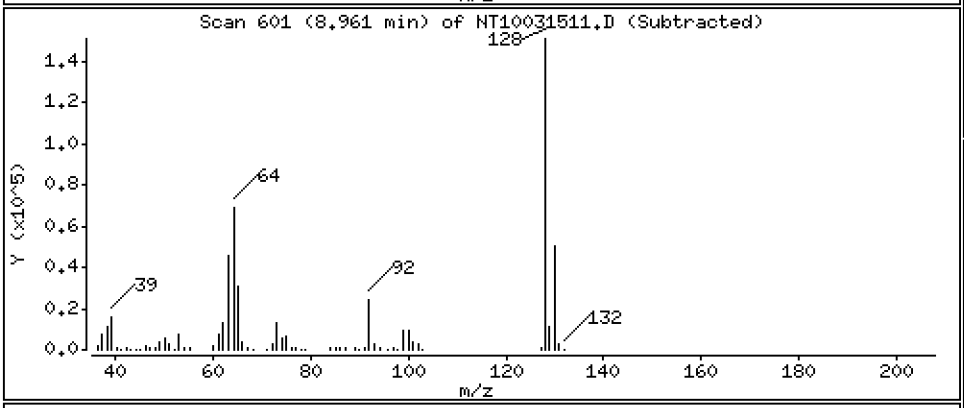
Column diameter: 0.25

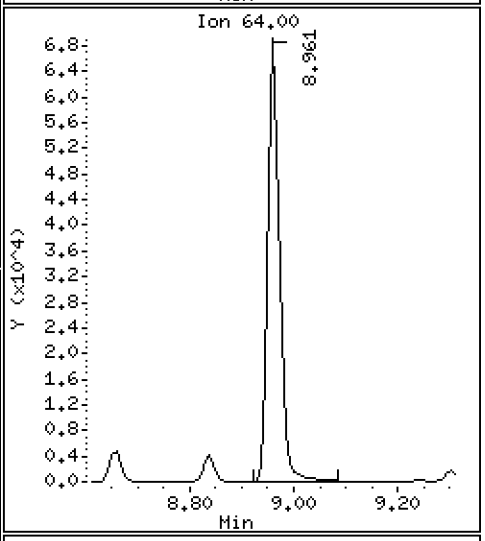
6 2-Chlorophenol

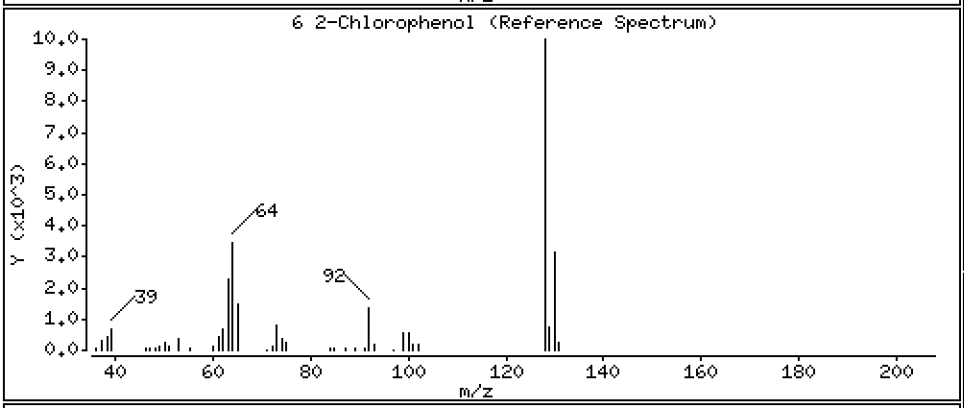
Concentration: 4.277 ug/mL

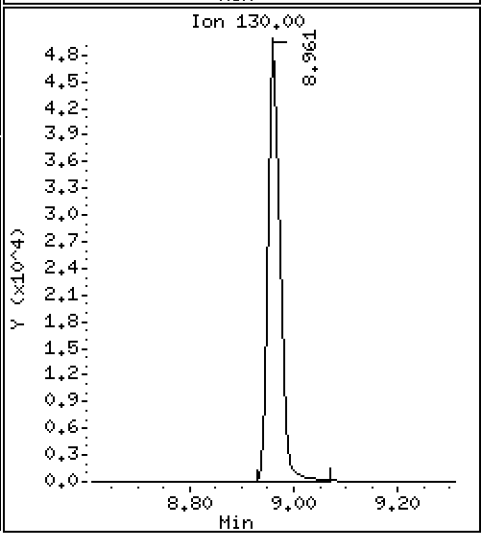


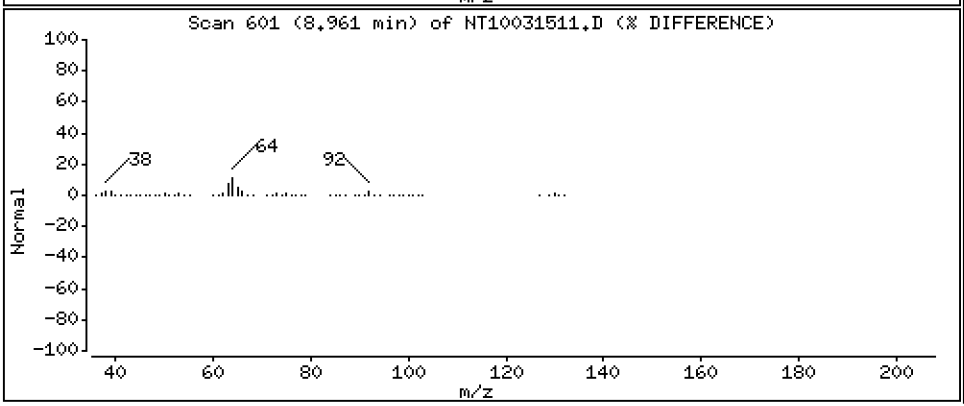












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

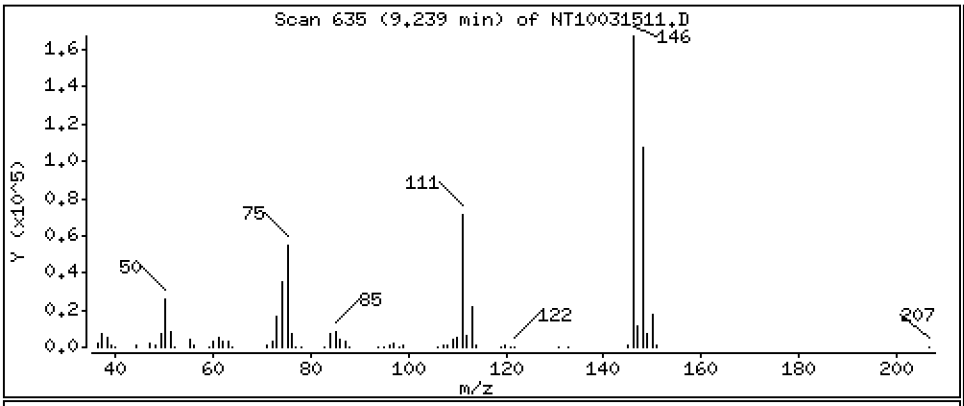
Operator: VTS

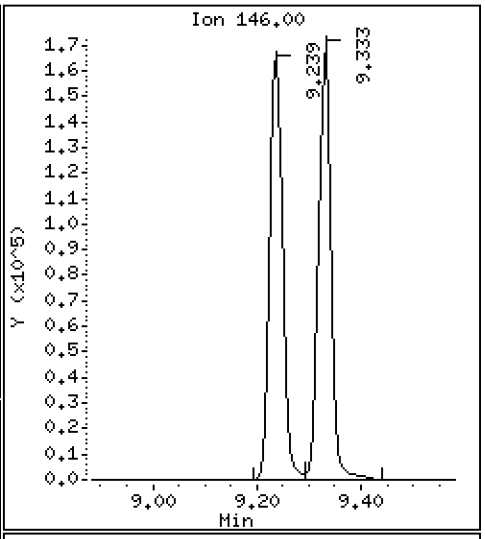
Column phase: ZB-5msi

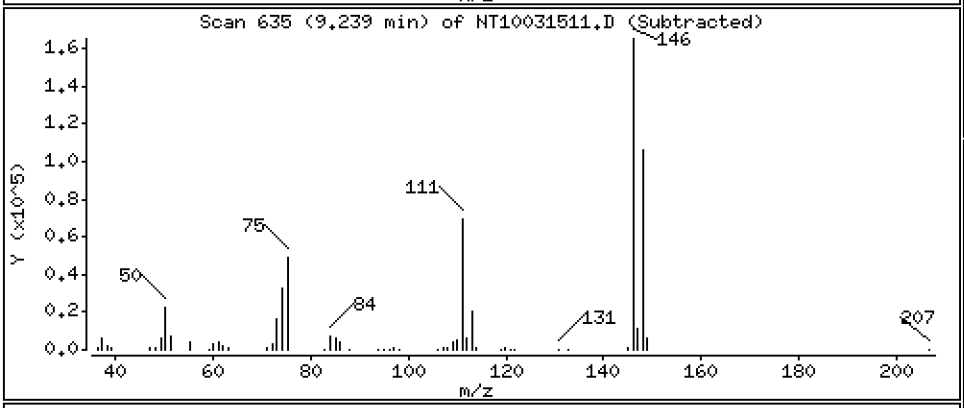
Column diameter: 0.25

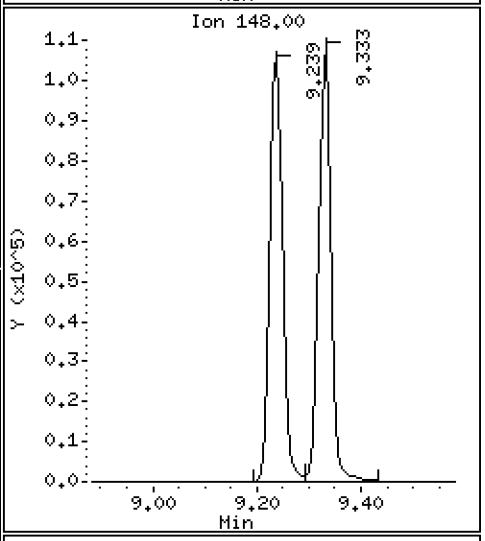
7 1,3-Dichlorobenzene

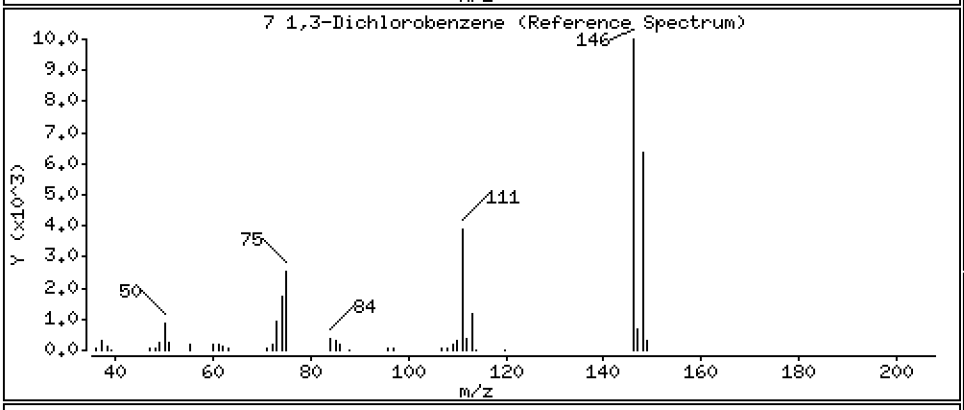
Concentration: 4.772 ug/mL

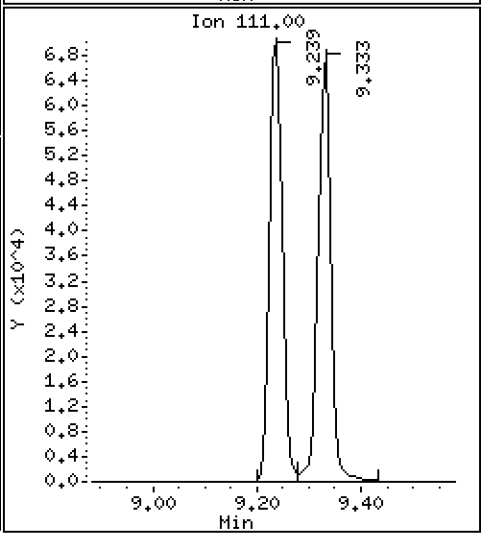


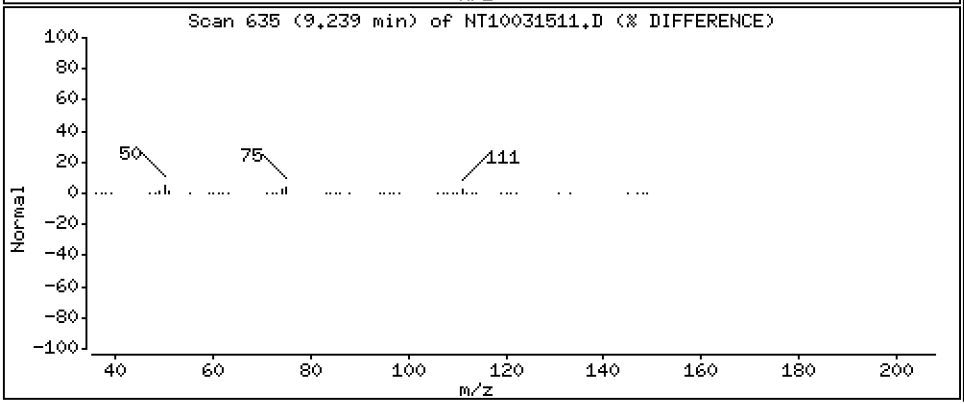












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

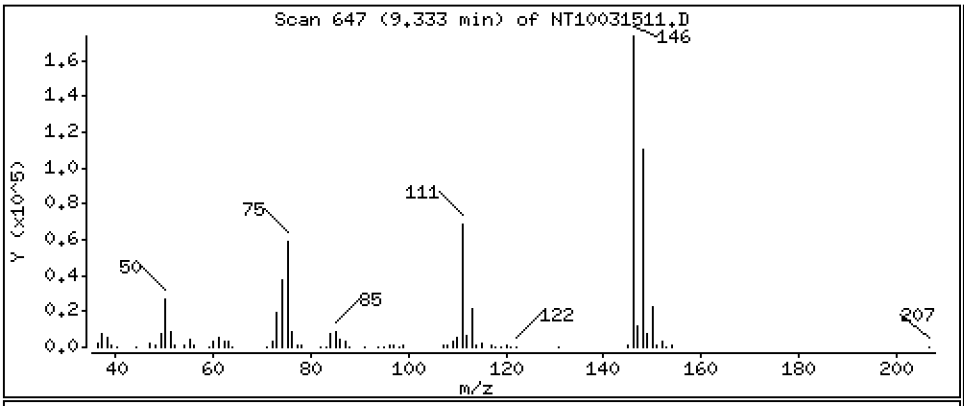
Operator: VTS

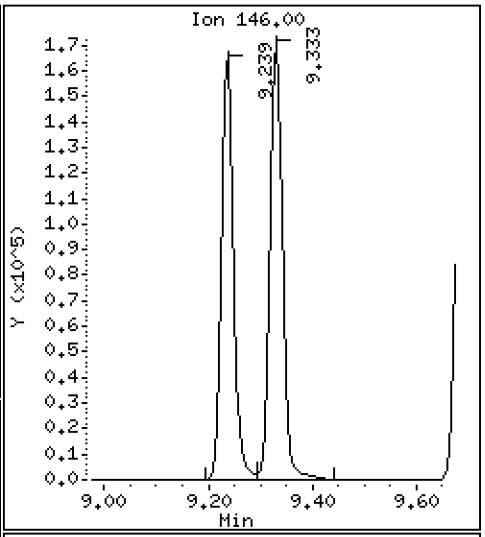
Column phase: ZB-5msi

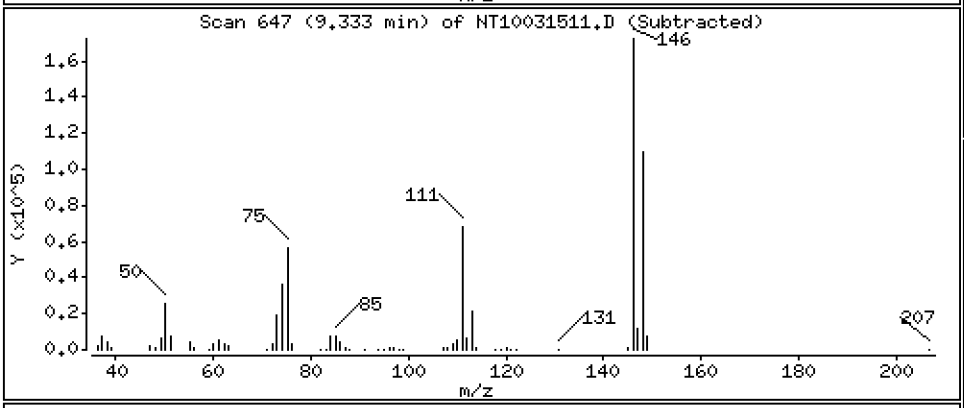
Column diameter: 0.25

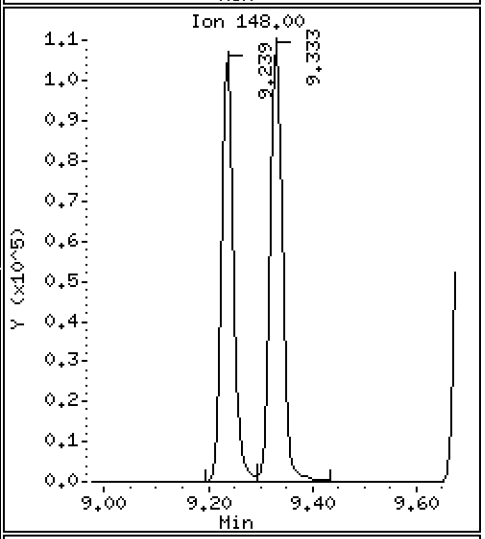
9 1,4-Dichlorobenzene

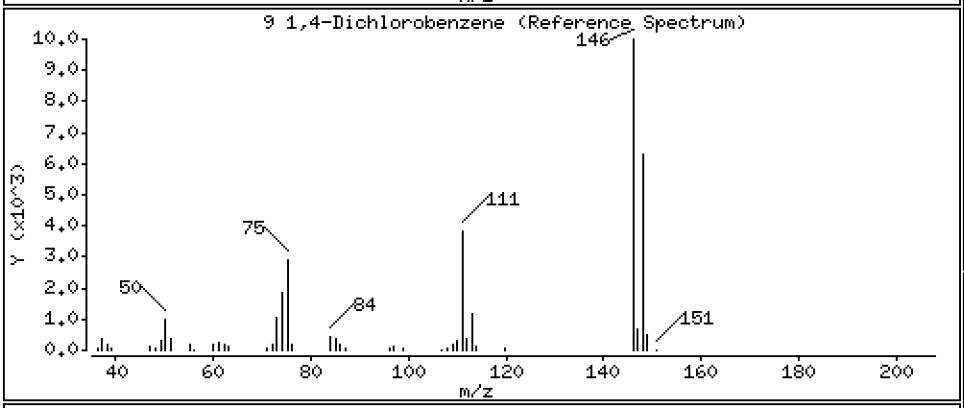
Concentration: 4.913 ug/mL

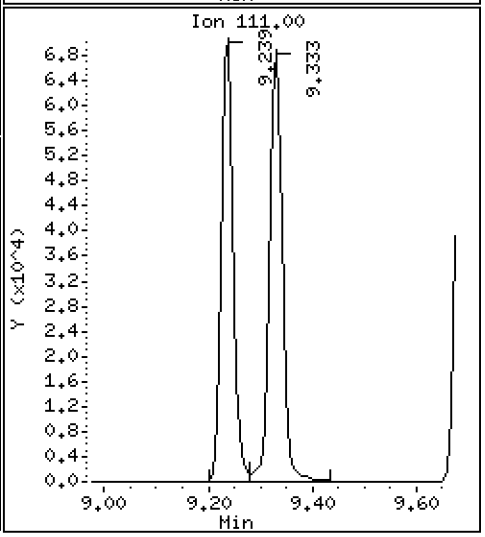


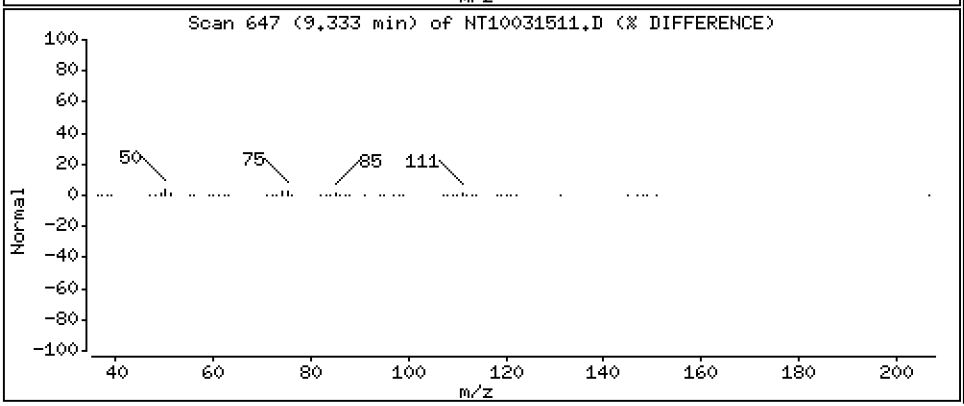












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

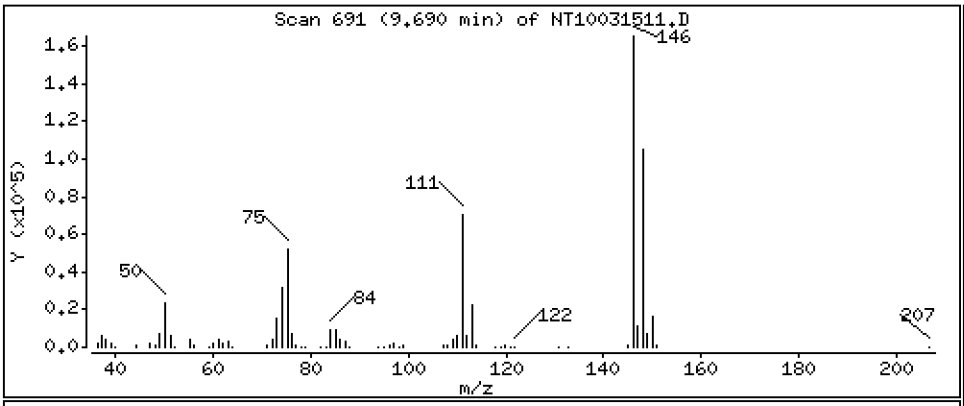
Operator: VTS

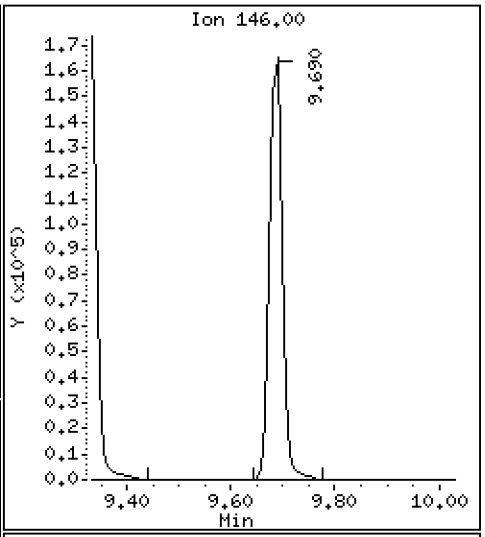
Column phase: ZB-5msi

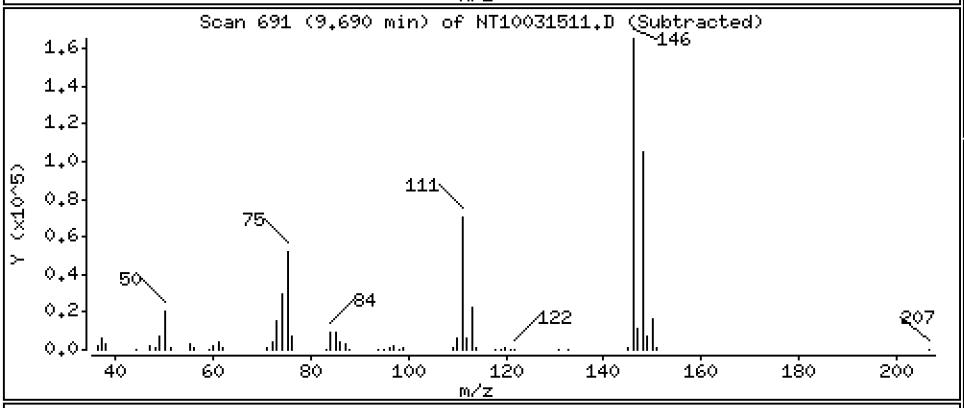
Column diameter: 0.25

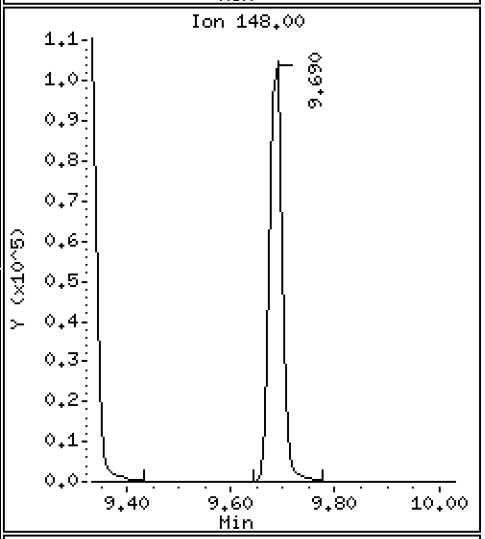
12 1,2-Dichlorobenzene

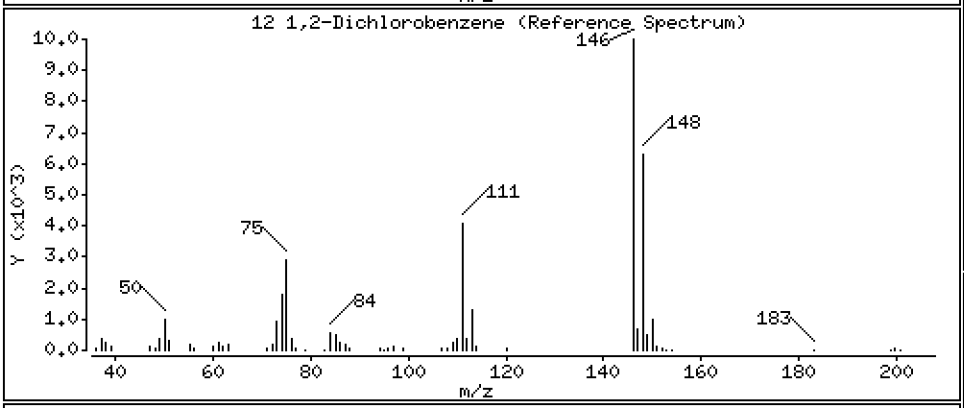
Concentration: 4.882 ug/mL

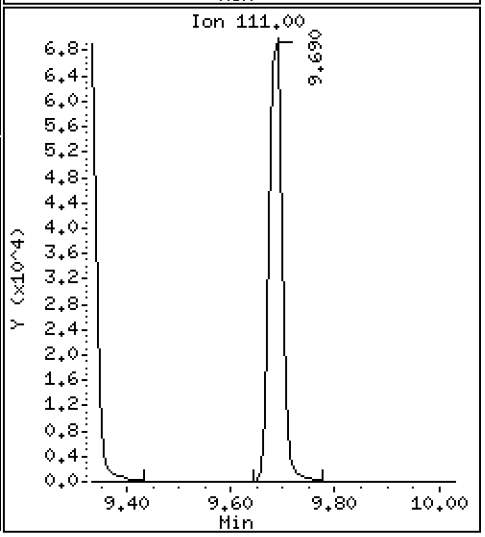


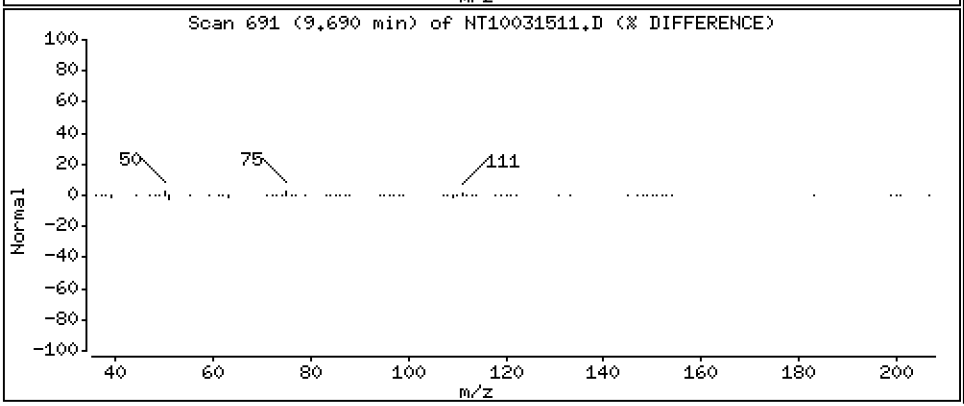












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

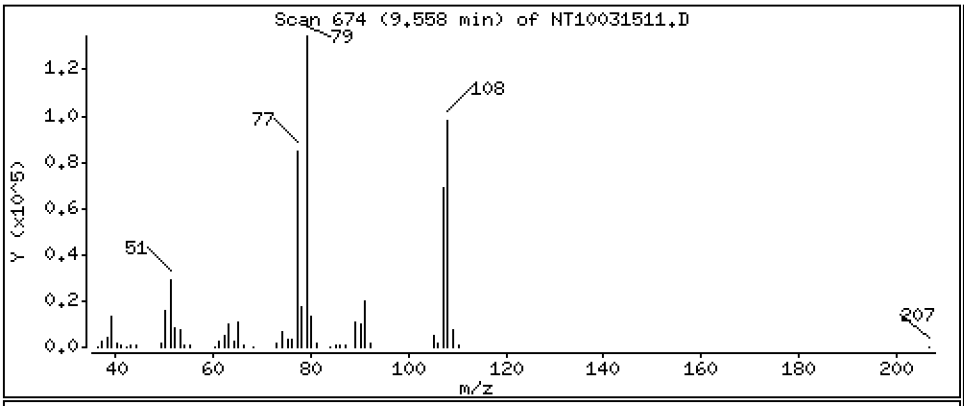
Operator: VTS

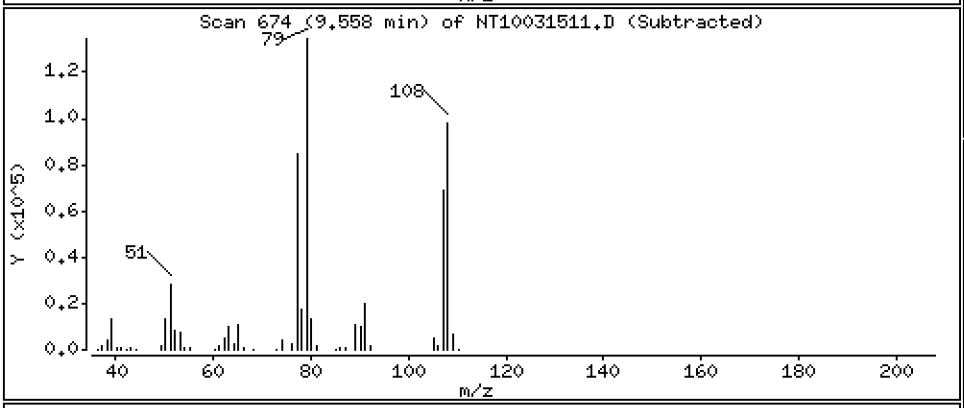
Column phase: ZB-5msi

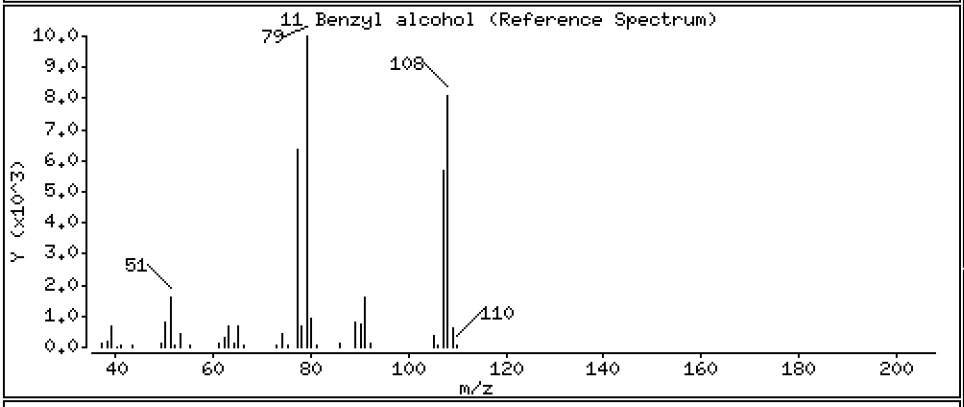
Column diameter: 0.25

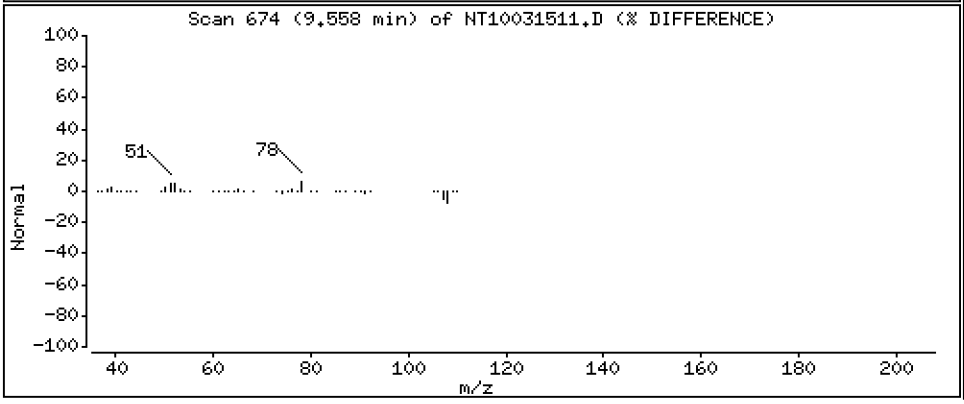
11 Benzyl alcohol

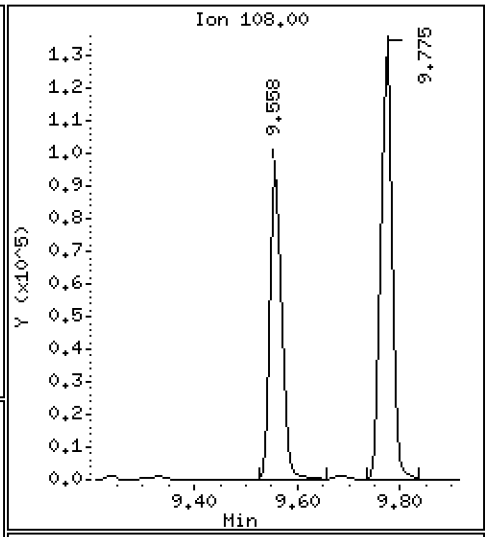
Concentration: 4.927 ug/mL

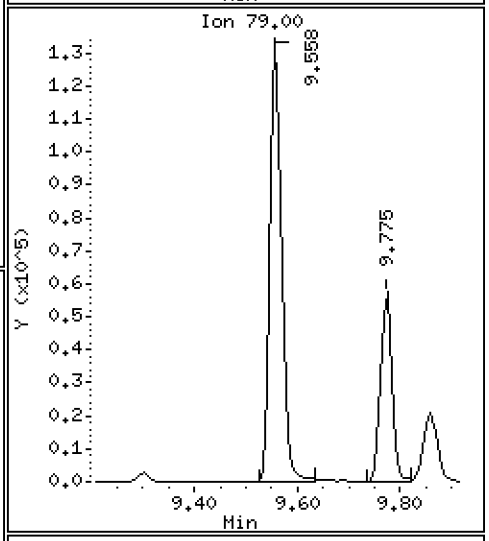


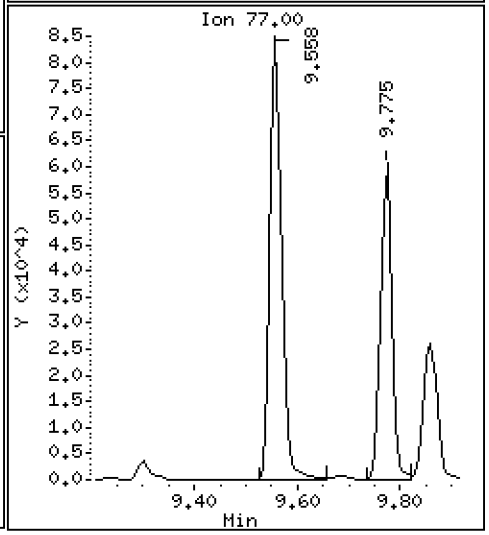












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

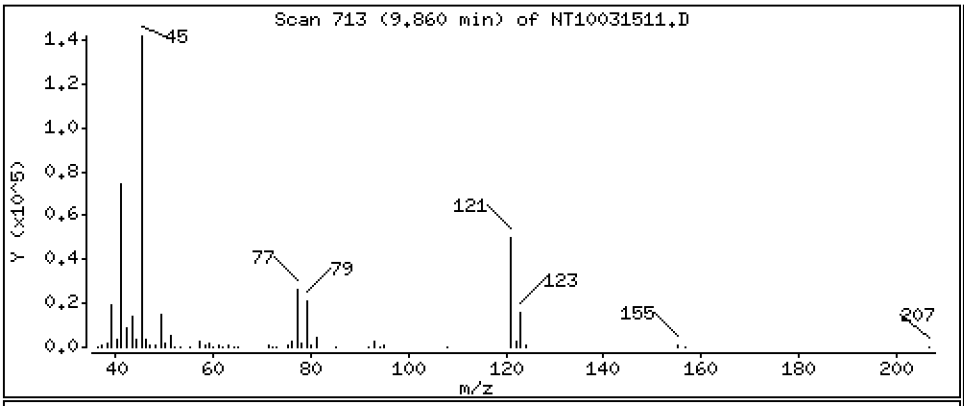
Operator: VTS

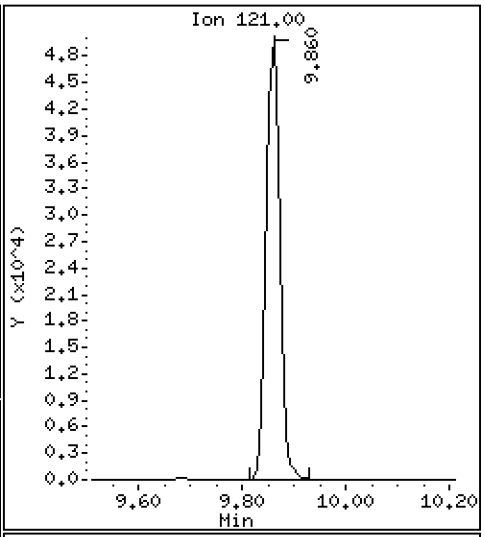
Column phase: ZB-5msi

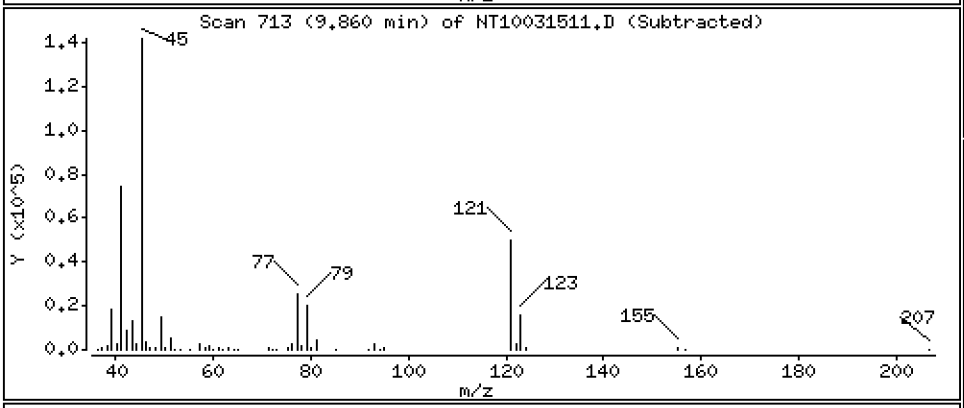
Column diameter: 0.25

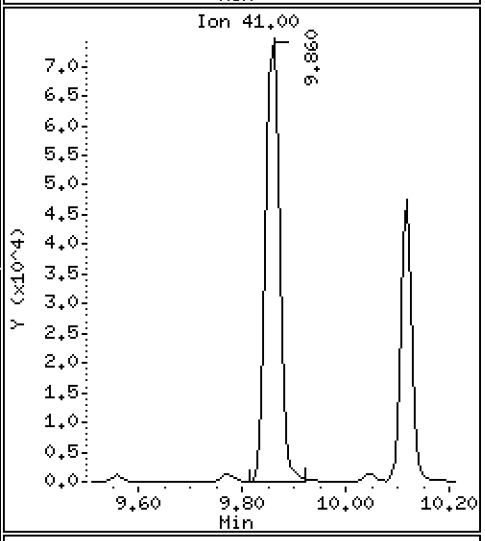
14 2,2'-oxybis(1-Chloropropane)

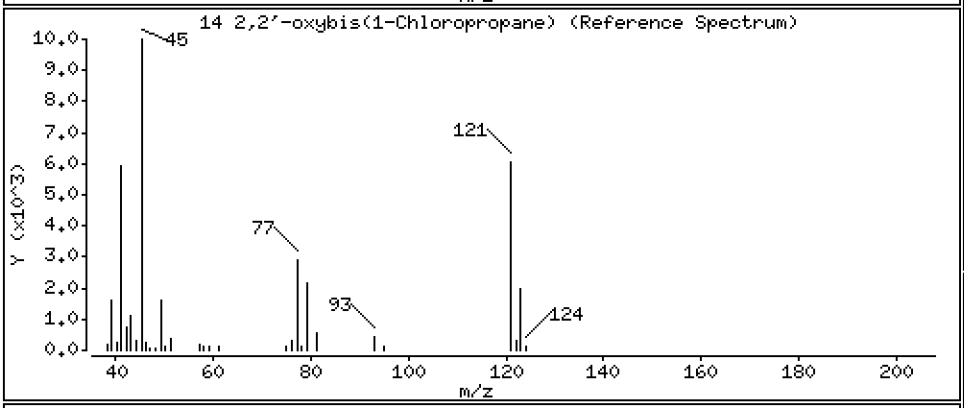
Concentration: 6.214 ug/mL

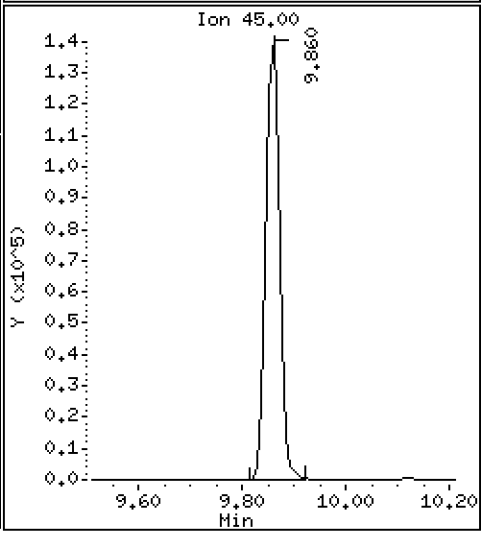


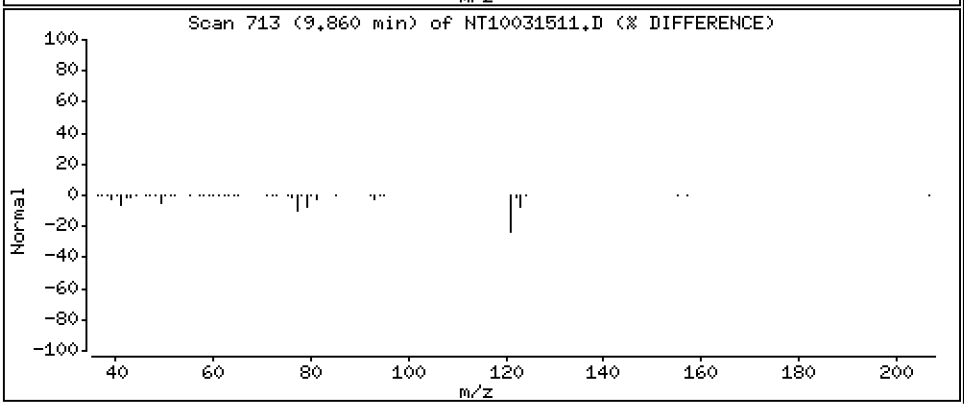












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

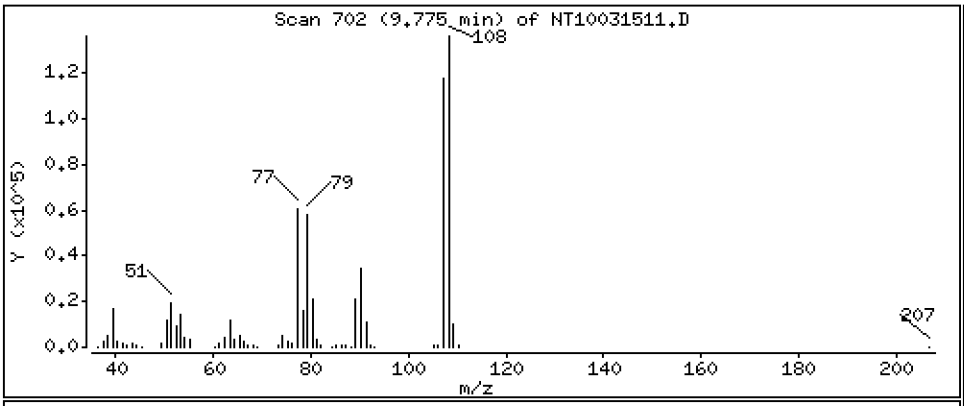
Operator: VTS

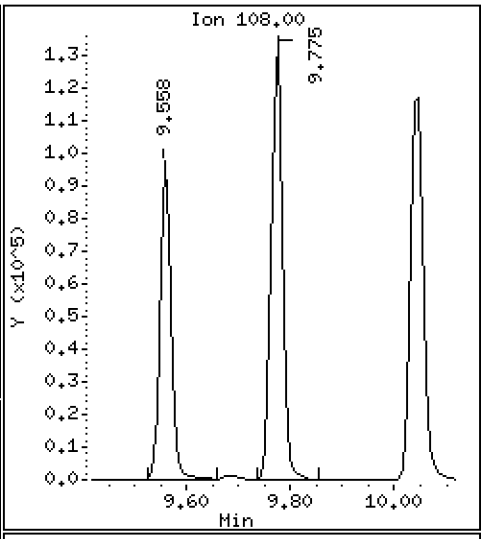
Column phase: ZB-5msi

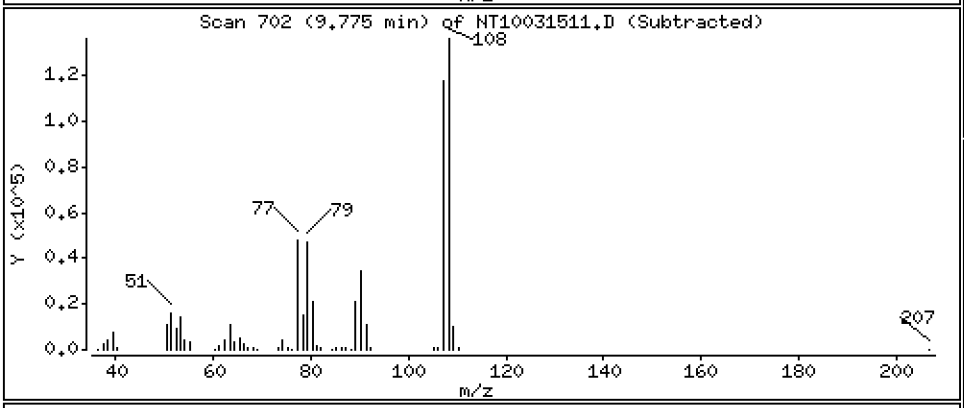
Column diameter: 0.25

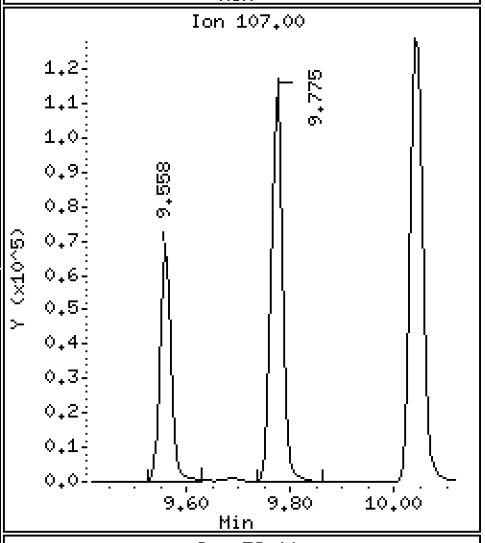
13 2-Methylphenol

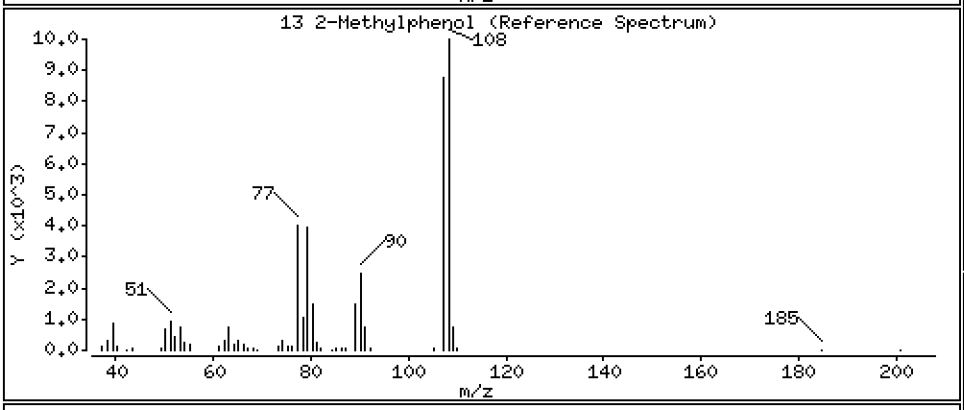
Concentration: 4.215 ug/mL

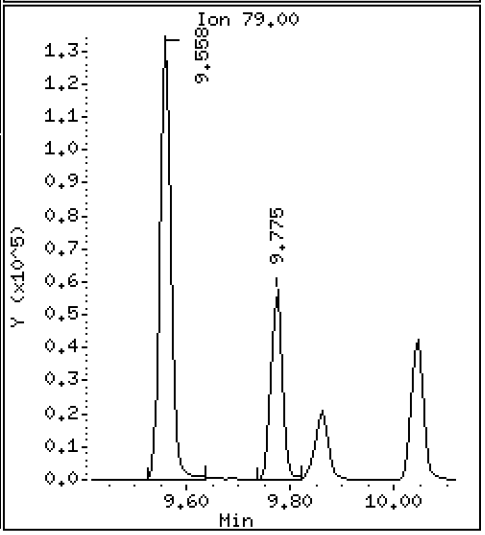


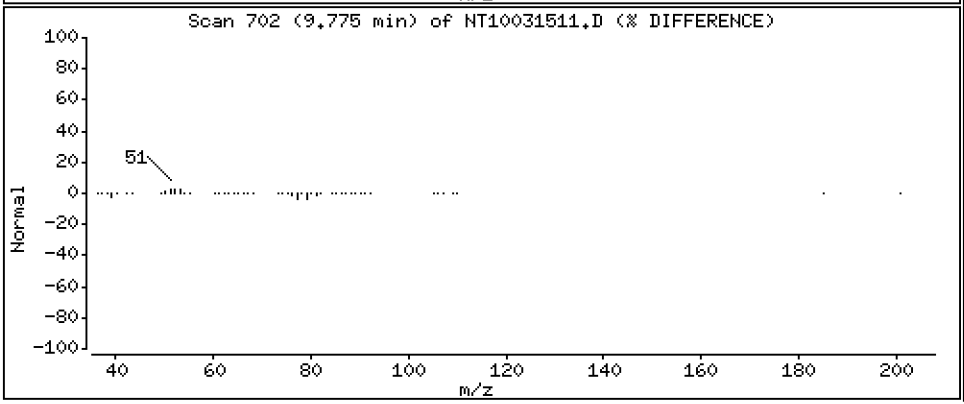












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

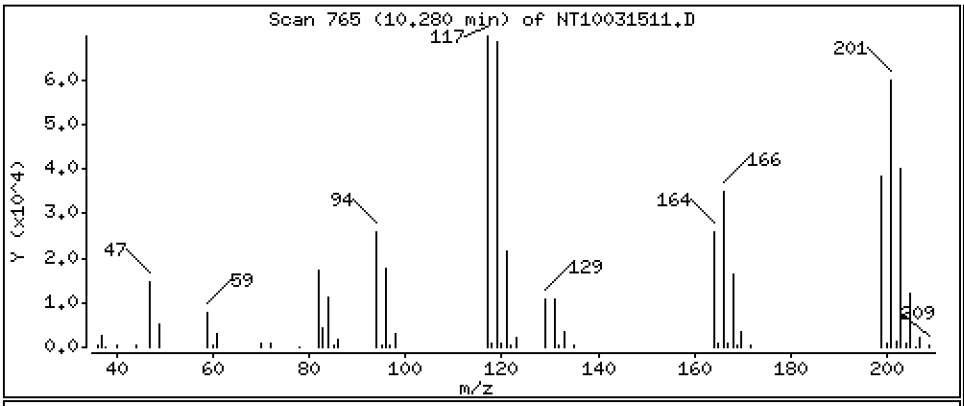
Operator: VTS

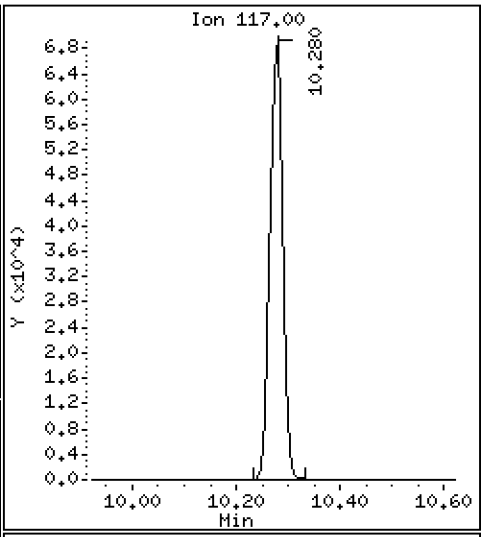
Column phase: ZB-5msi

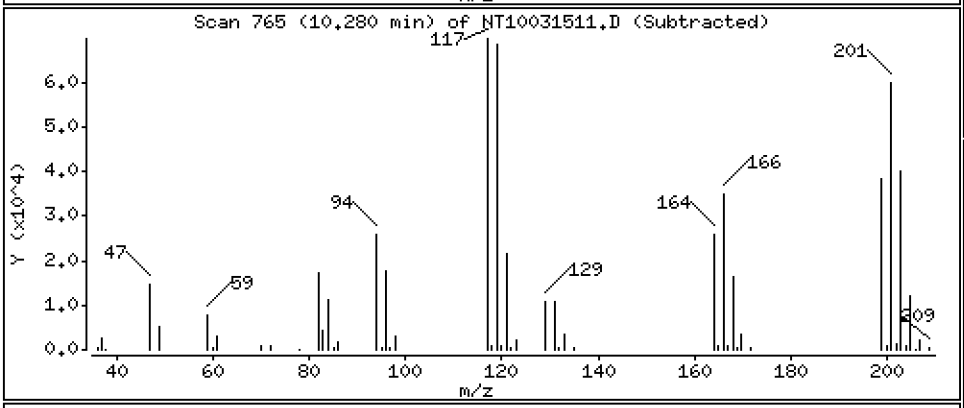
Column diameter: 0.25

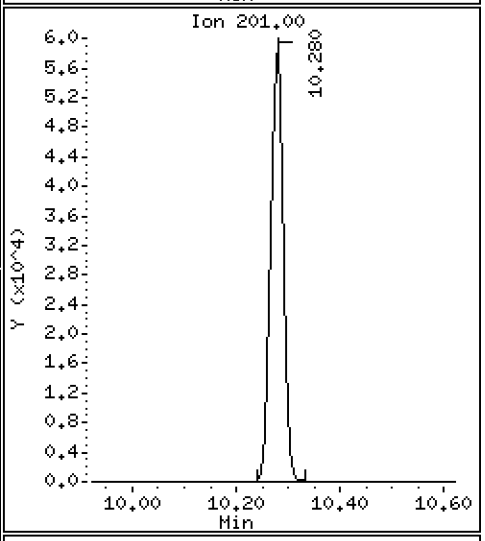
17 Hexachloroethane

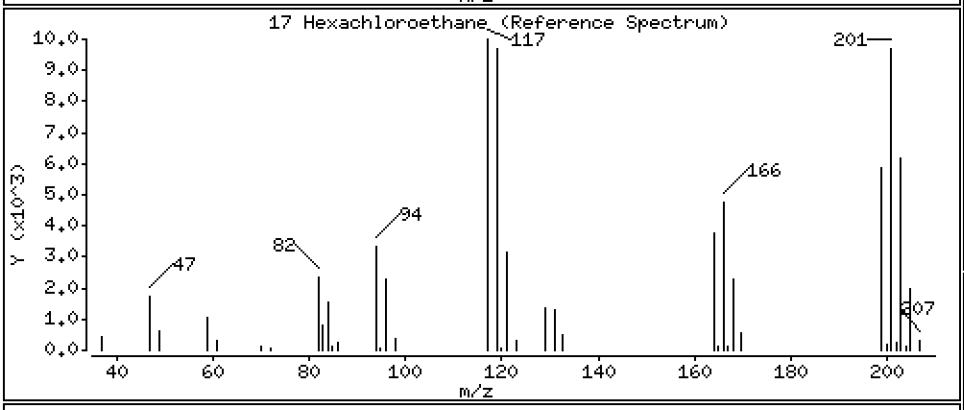
Concentration: 5.003 ug/mL

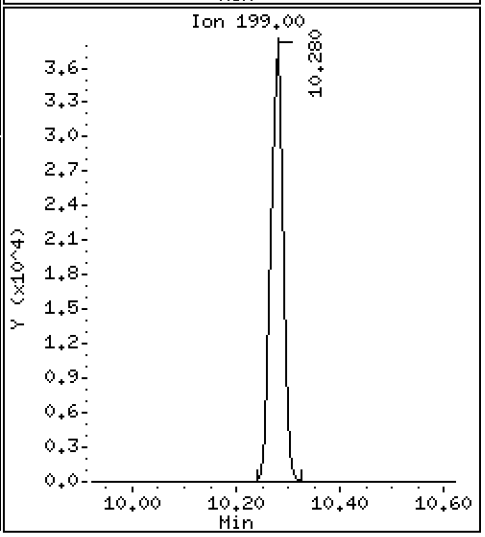


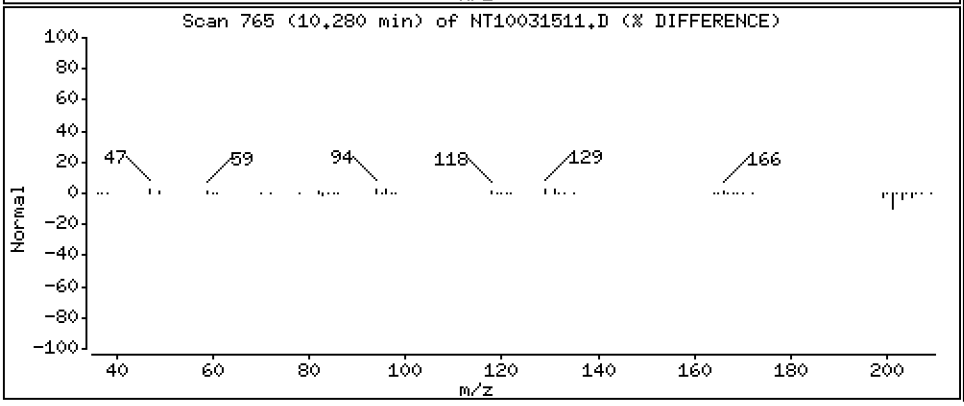












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

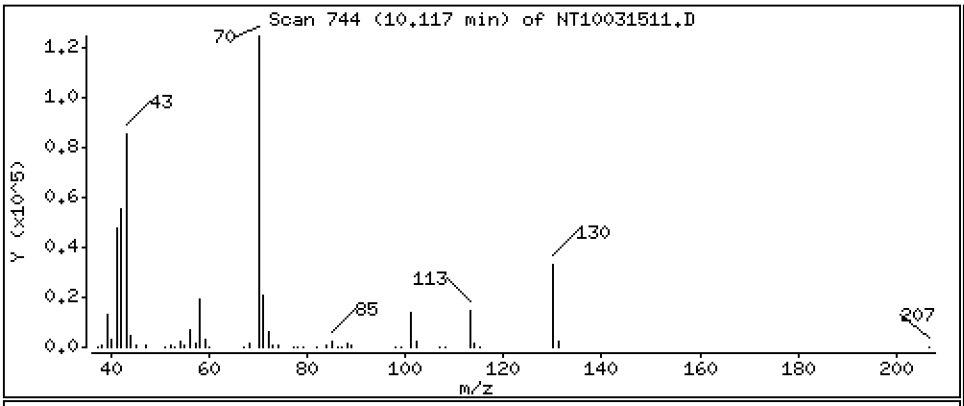
Operator: VTS

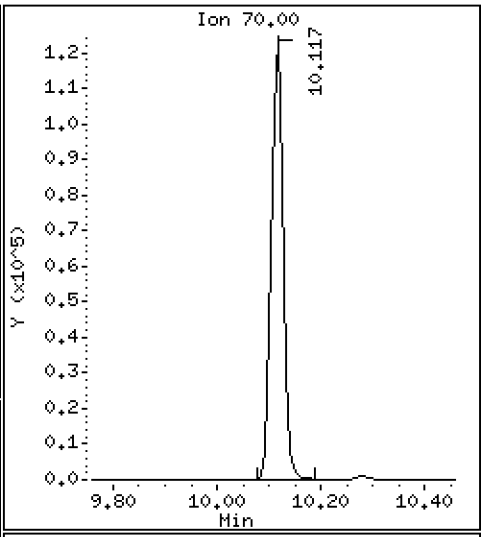
Column phase: ZB-5msi

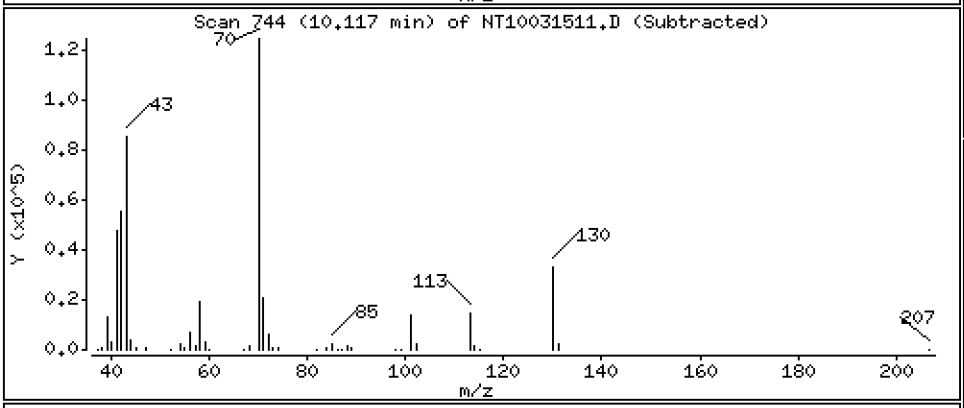
Column diameter: 0.25

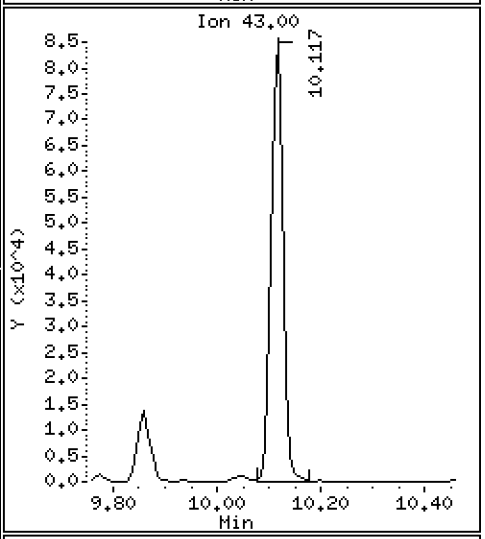
16 N-Nitroso-di-n-propylamine

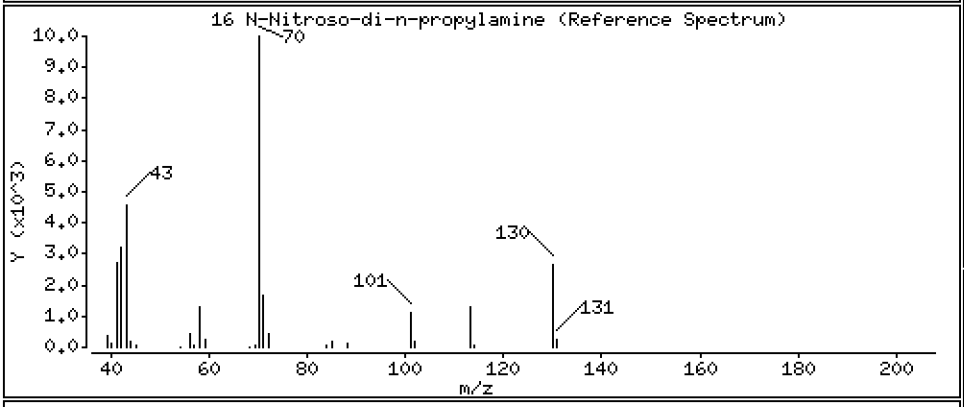
Concentration: 5.179 ug/mL

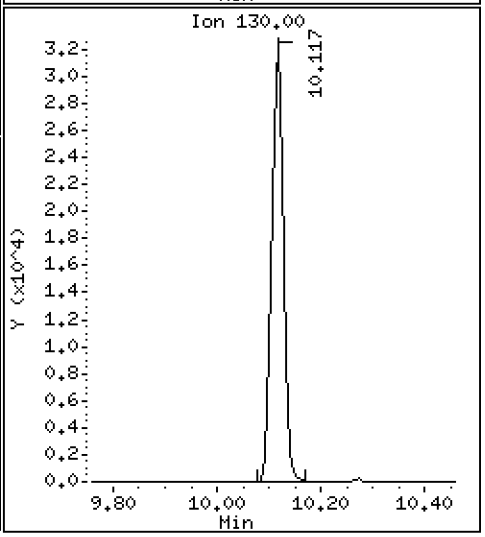


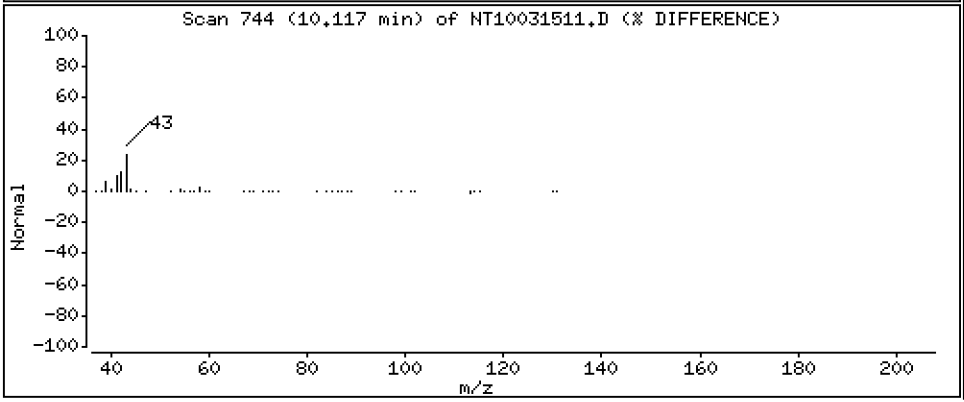












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

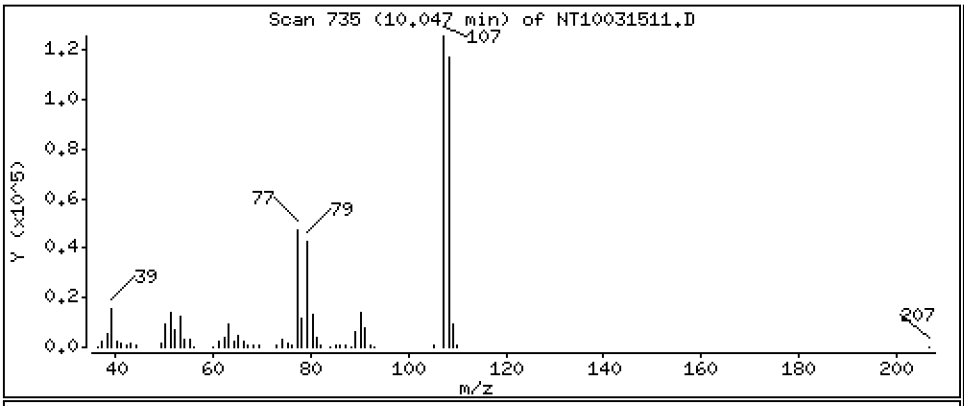
Operator: VTS

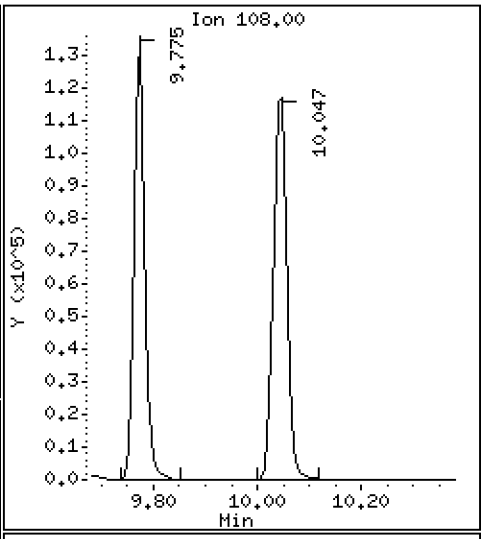
Column phase: ZB-5msi

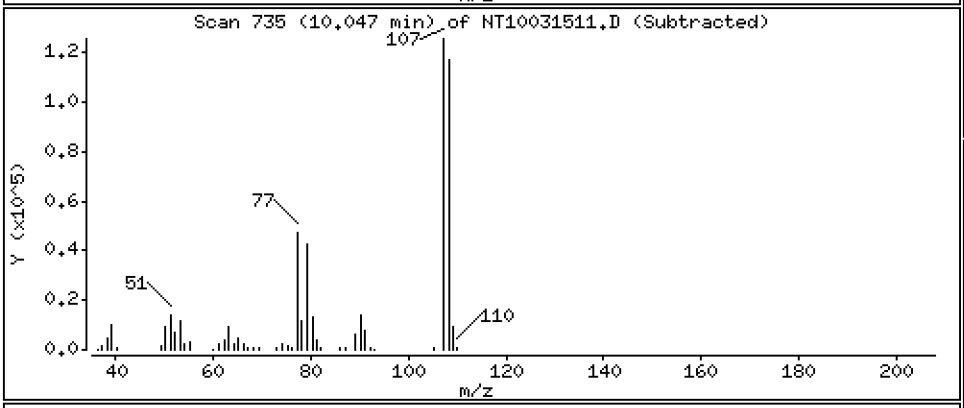
Column diameter: 0.25

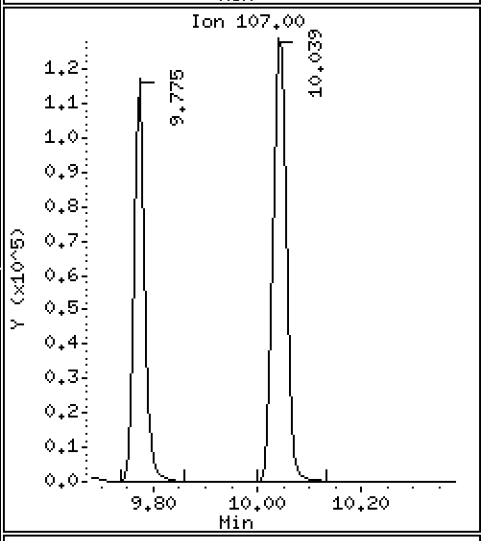
15 4-Methylphenol

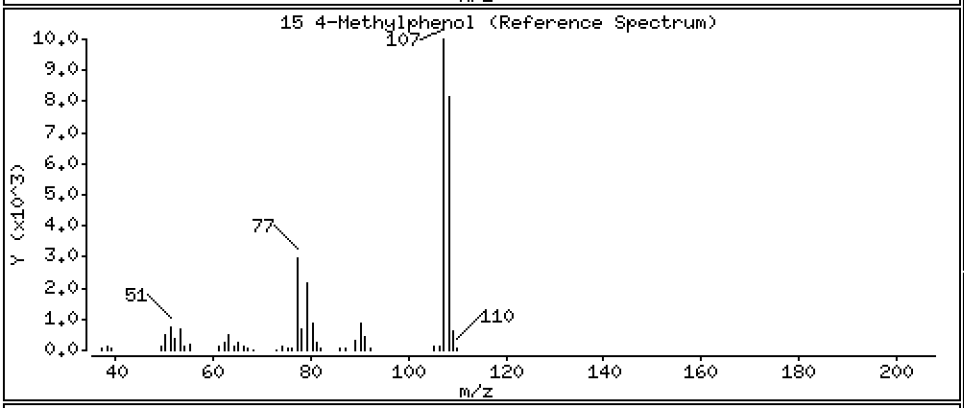
Concentration: 4.365 ug/mL

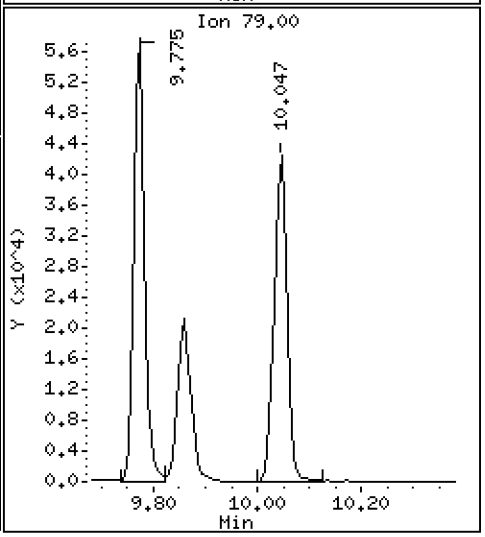


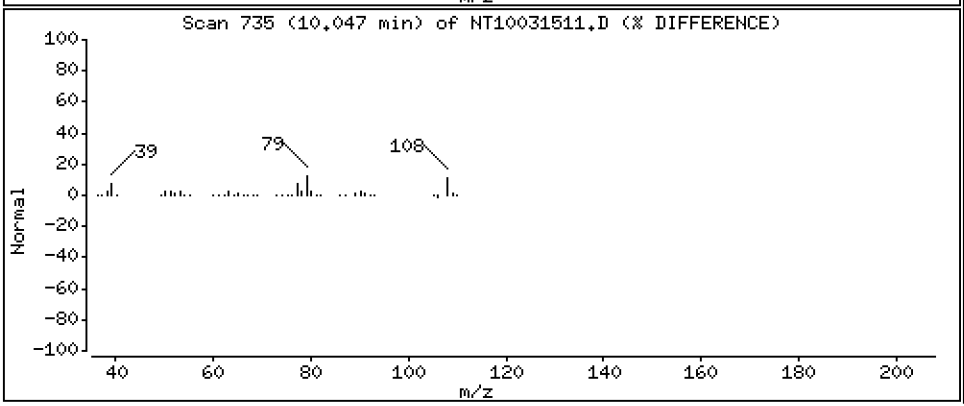












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

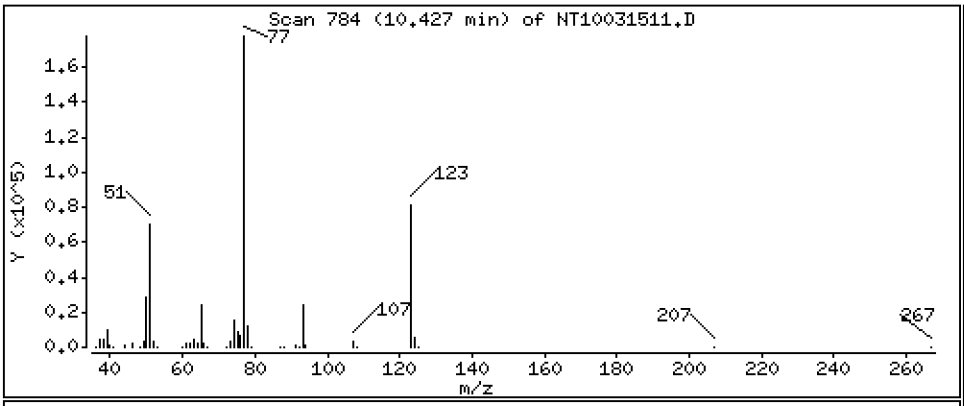
Operator: VTS

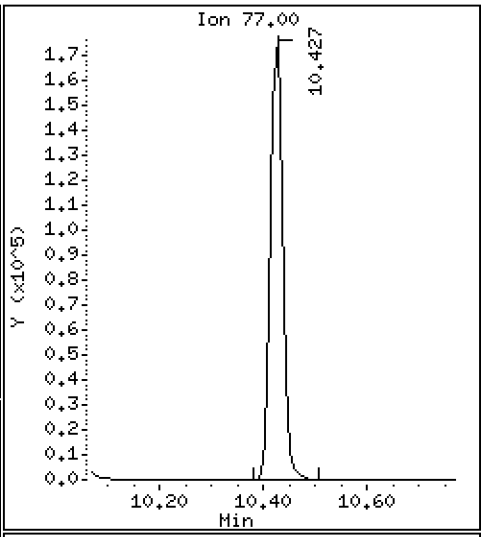
Column phase: ZB-5msi

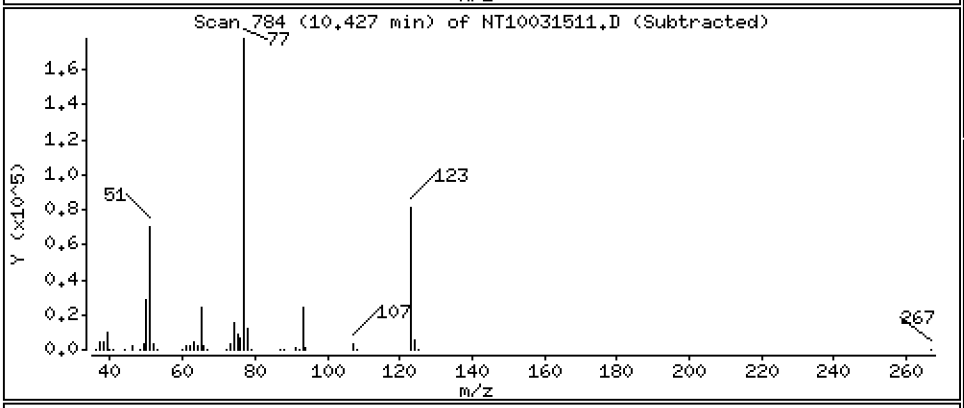
Column diameter: 0.25

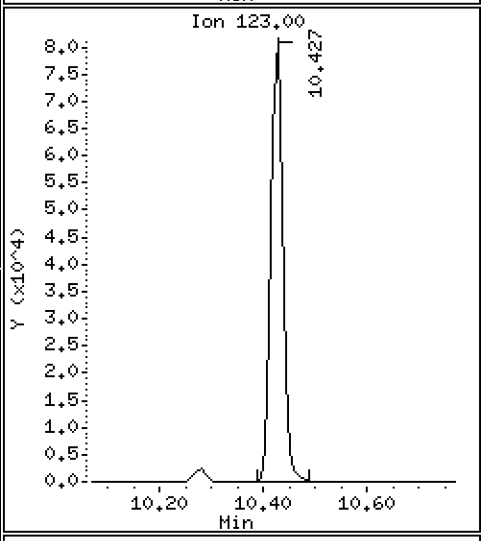
19 Nitrobenzene

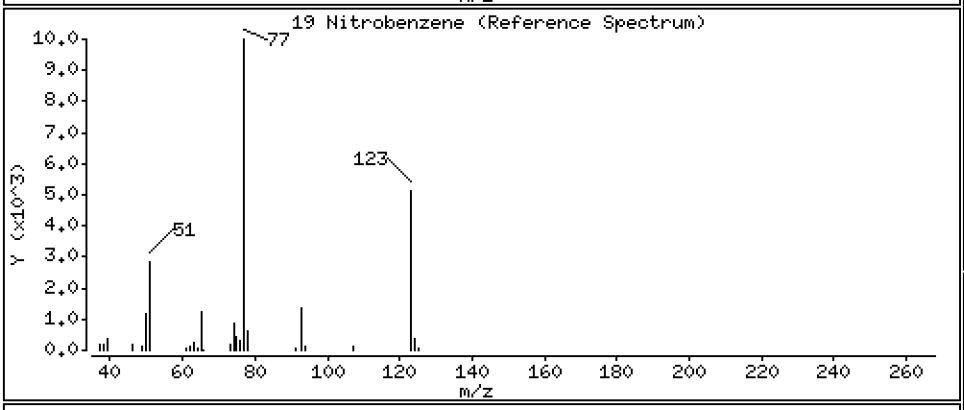
Concentration: 4.858 ug/mL

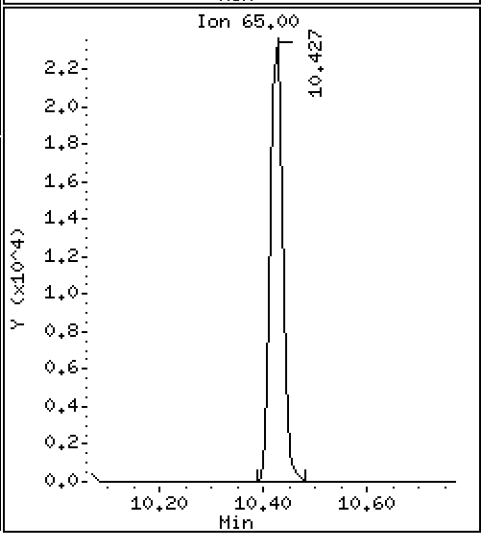


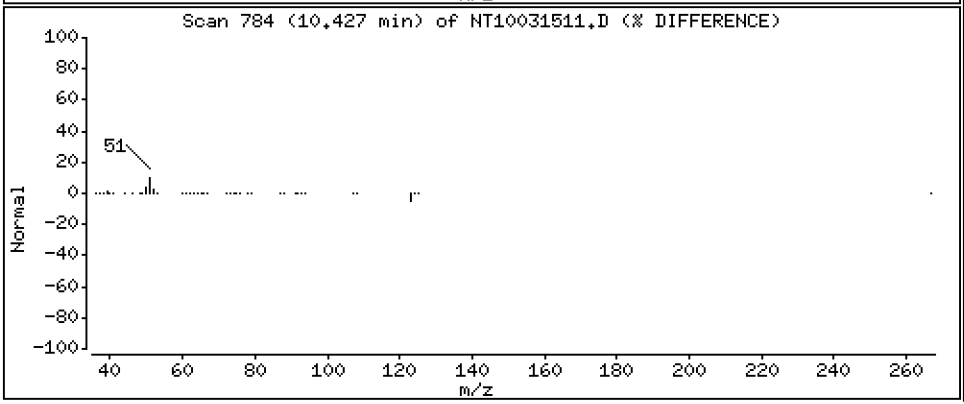












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

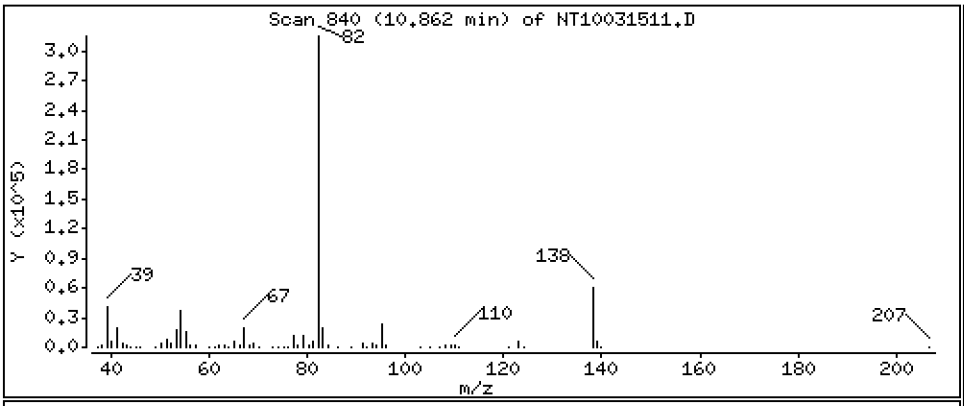
Operator: VTS

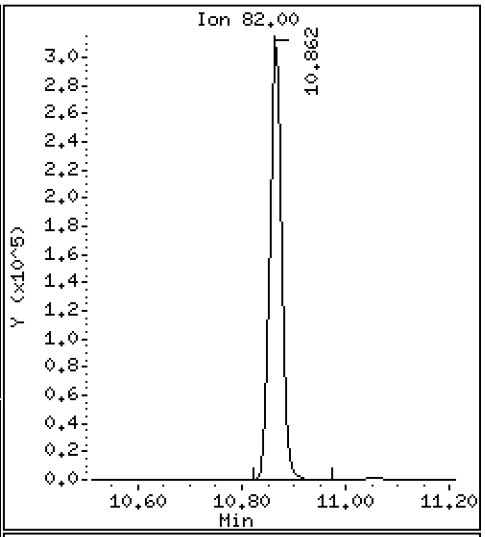
Column phase: ZB-5msi

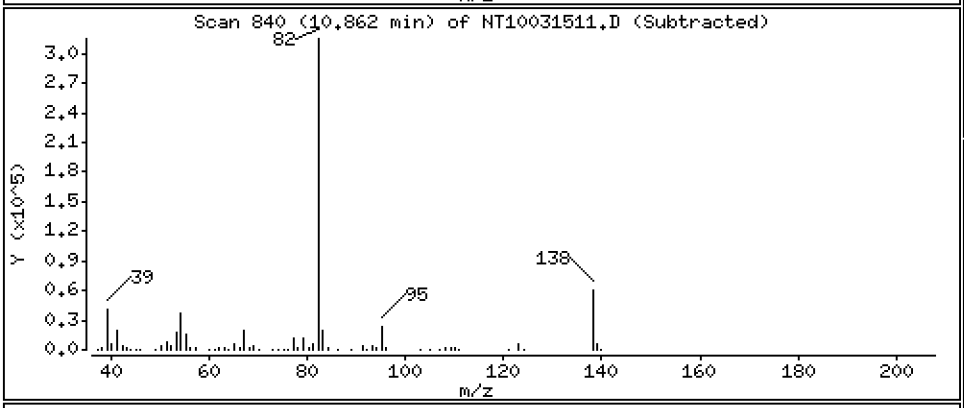
Column diameter: 0.25

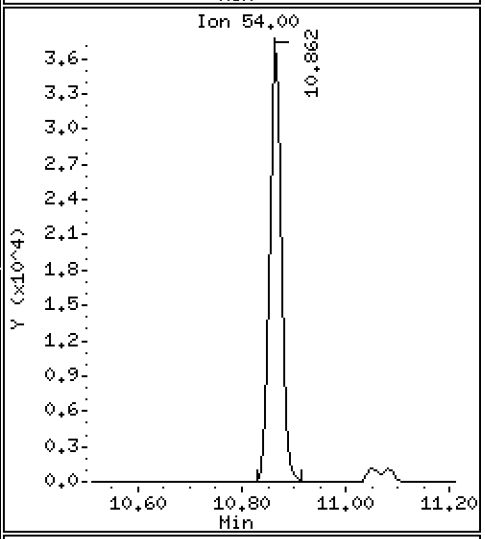
20 Isophorone

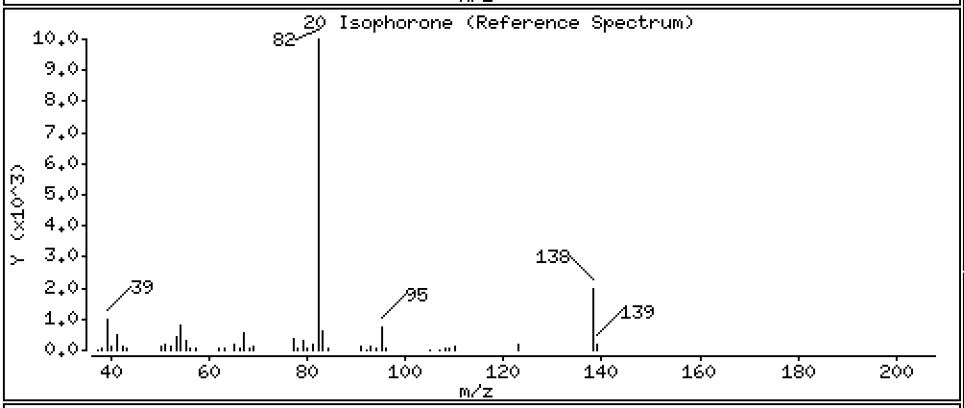
Concentration: 7.696 ug/mL

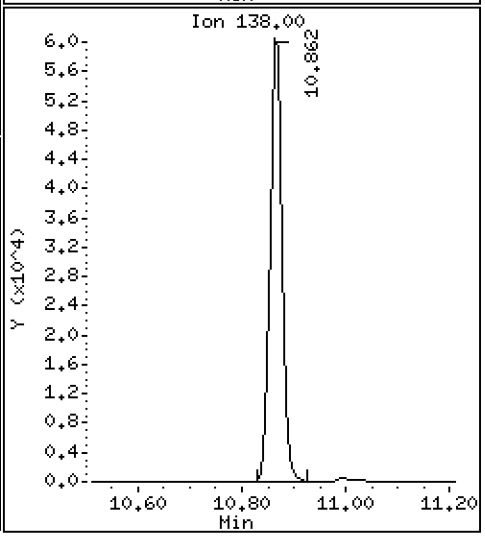


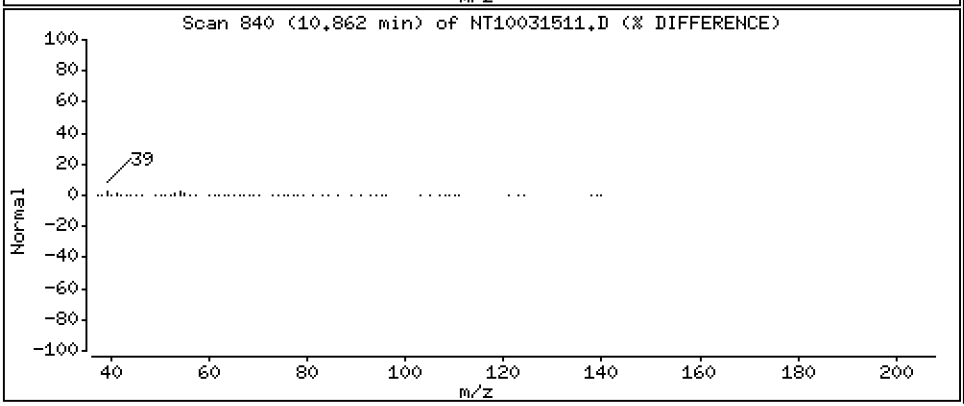












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

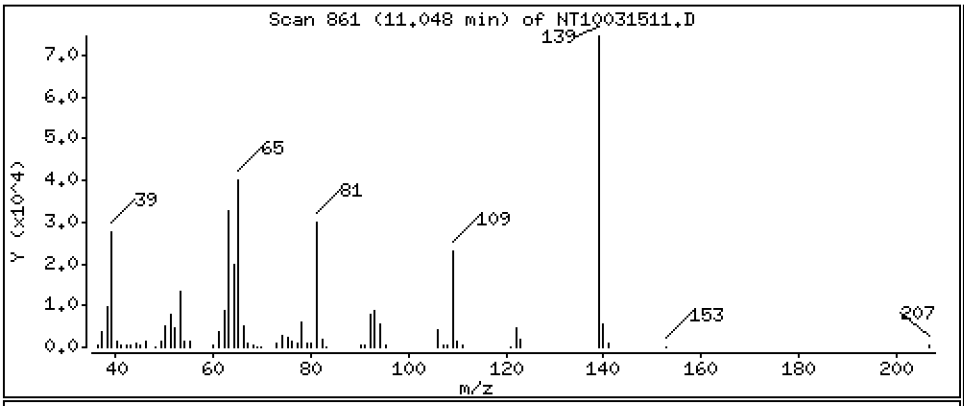
Operator: VTS

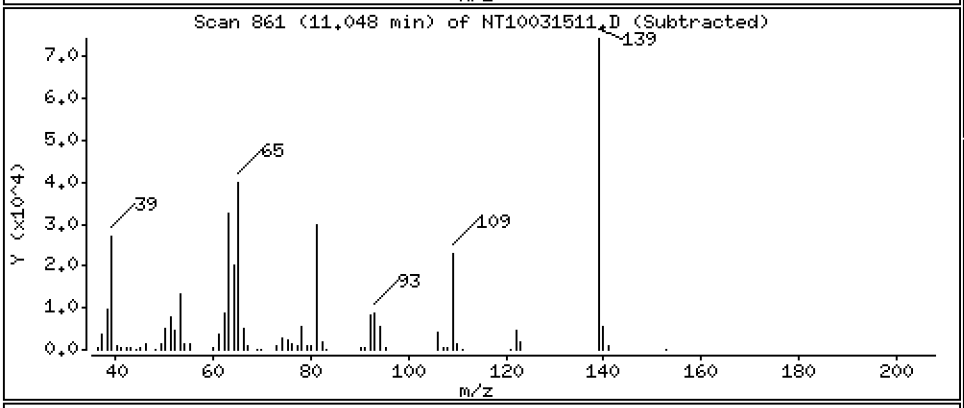
Column phase: ZB-5msi

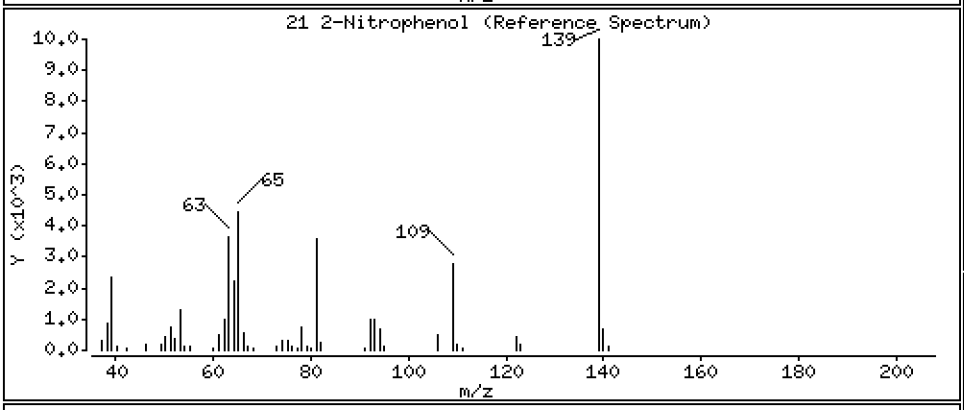
Column diameter: 0.25

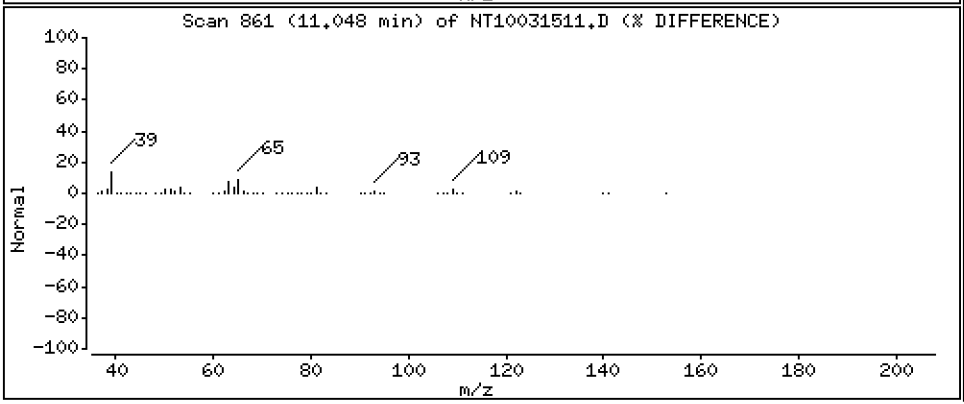
21 2-Nitrophenol

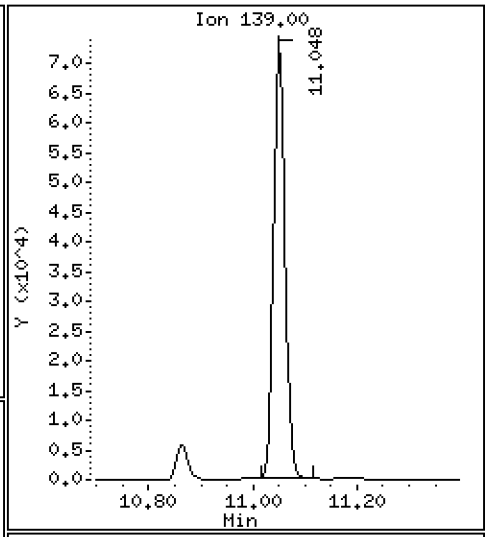
Concentration: 3.995 ug/mL

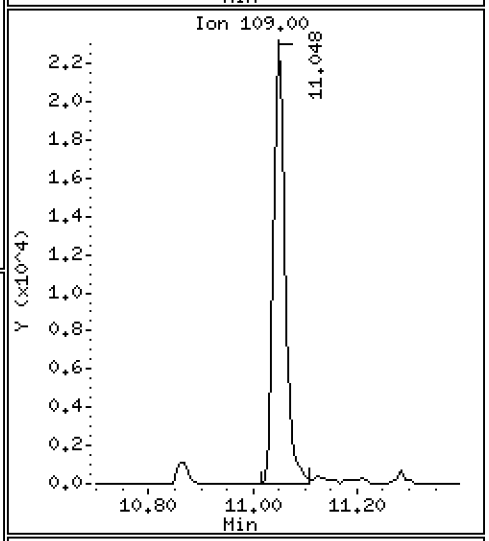


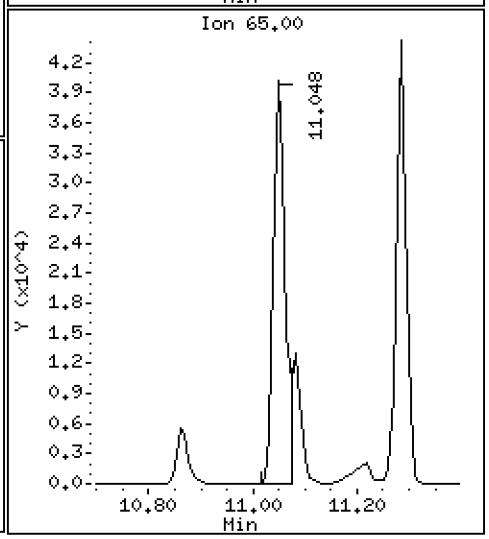












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

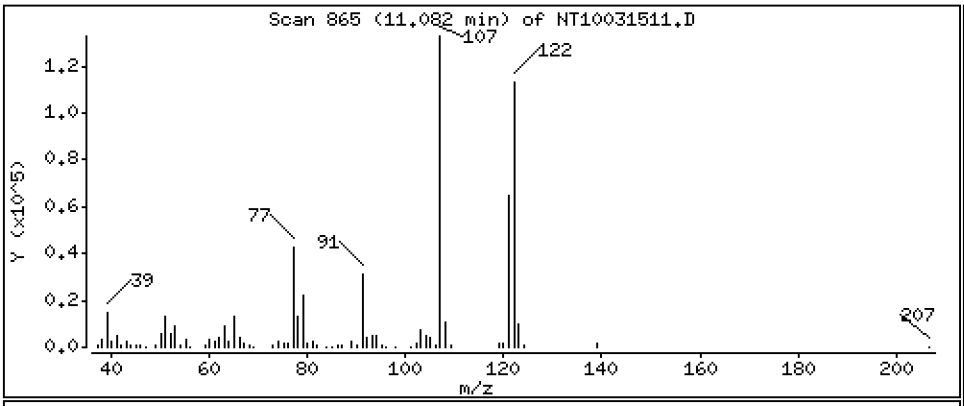
Operator: VTS

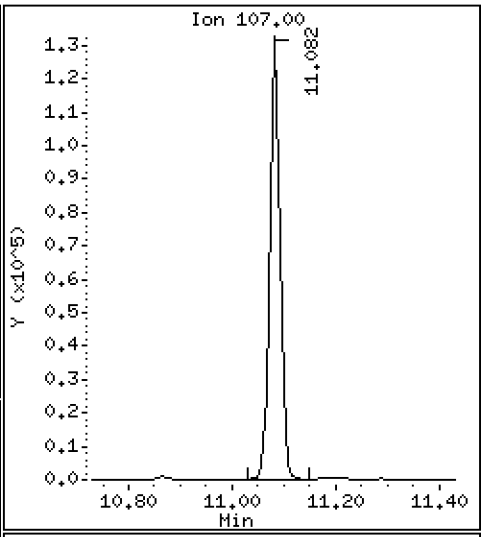
Column phase: ZB-5msi

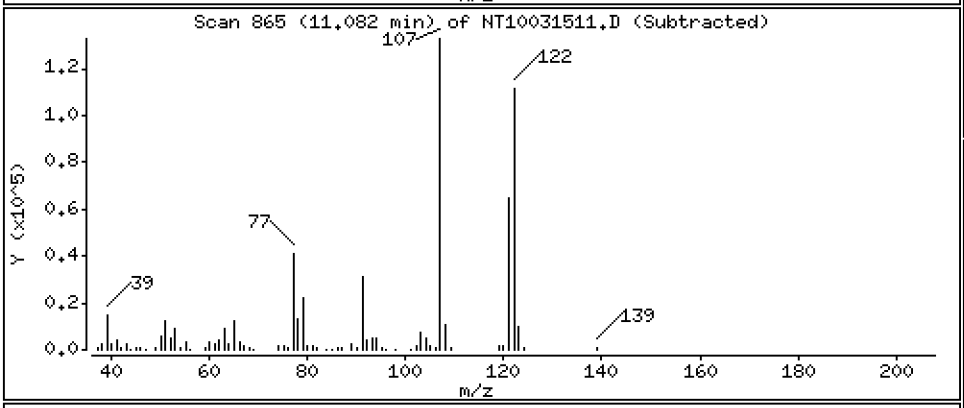
Column diameter: 0.25

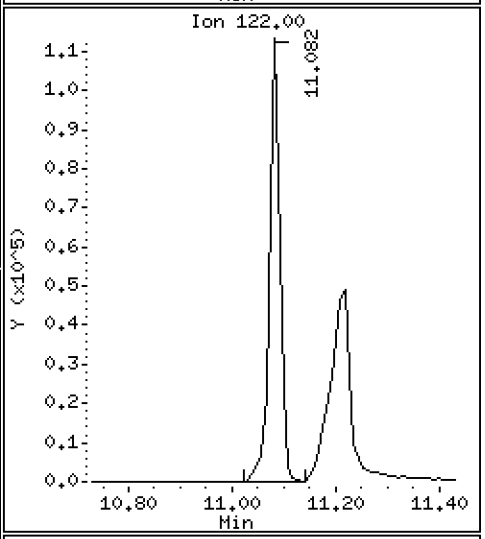
22 2,4-Dimethylphenol

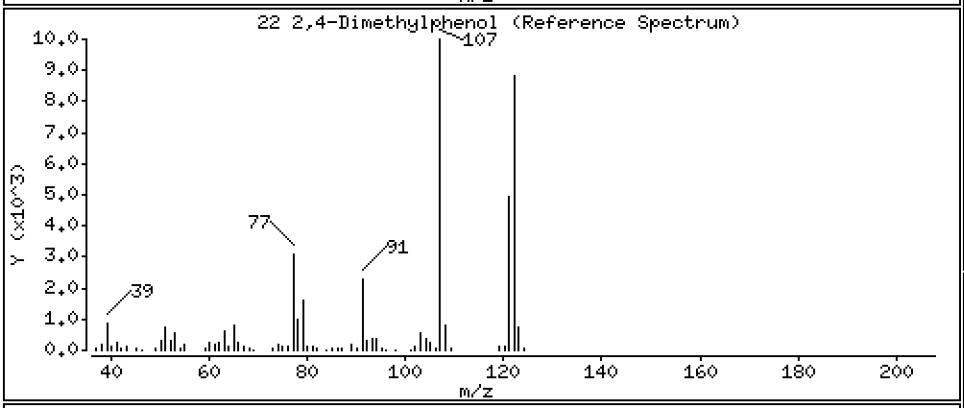
Concentration: 3.632 ug/mL

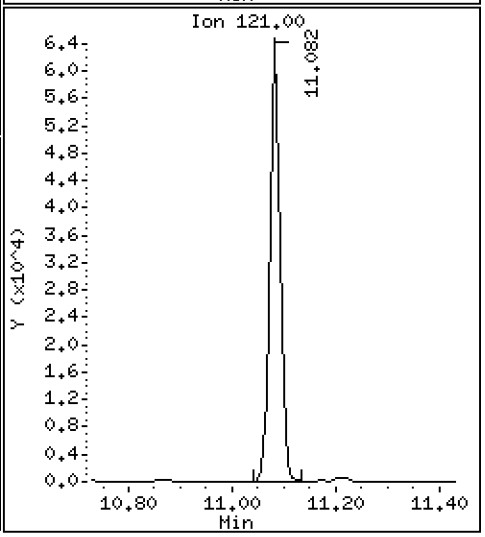


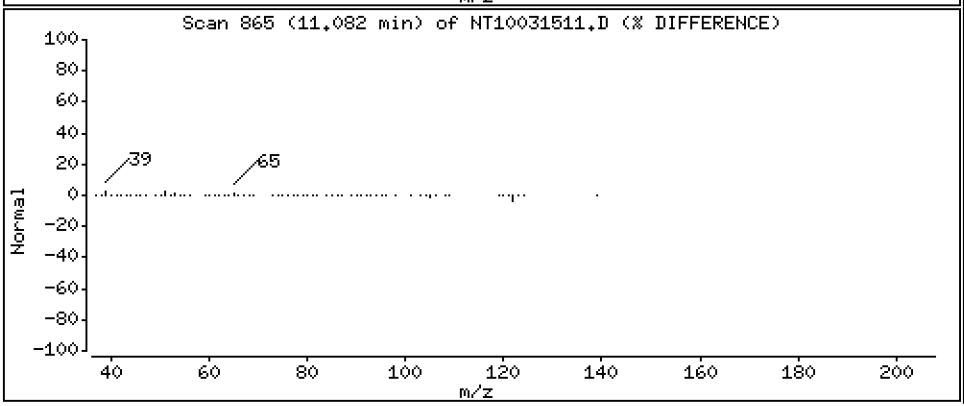












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

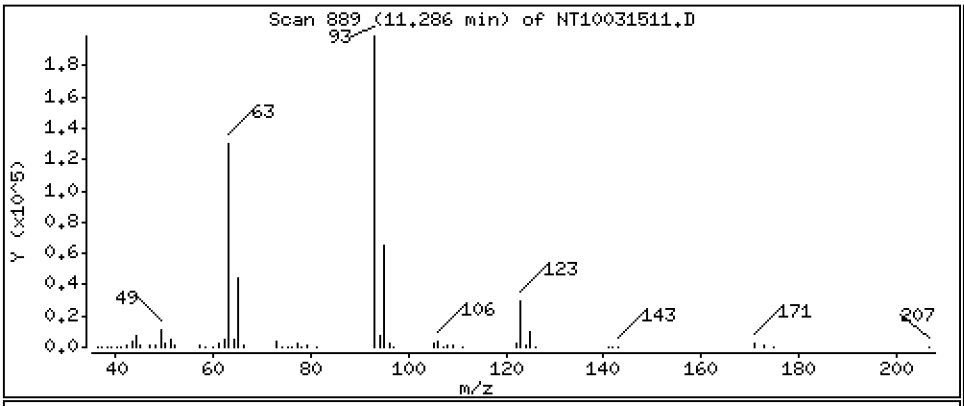
Operator: VTS

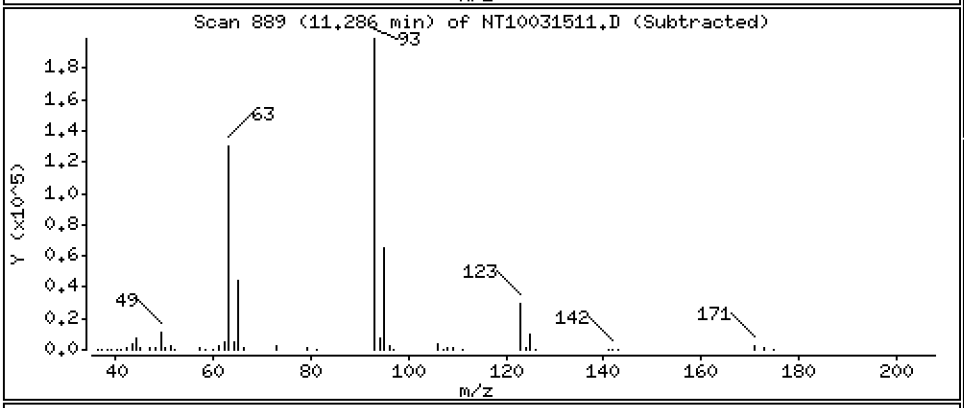
Column phase: ZB-5msi

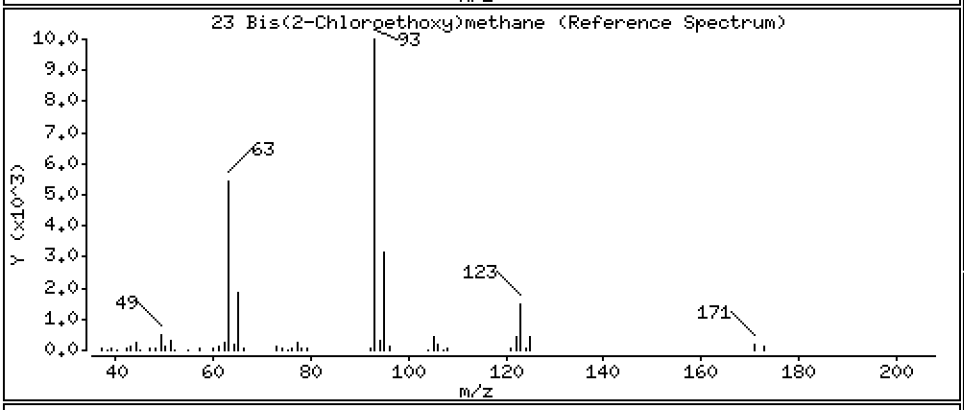
Column diameter: 0.25

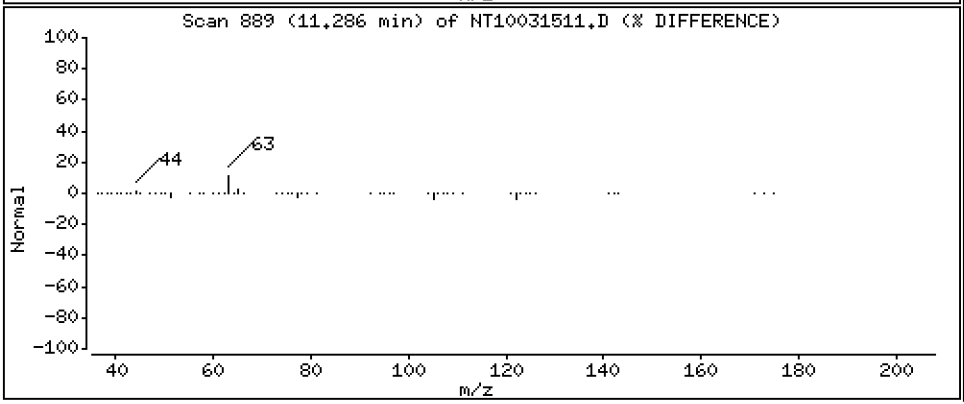
23 Bis(2-Chloroethoxy)methane

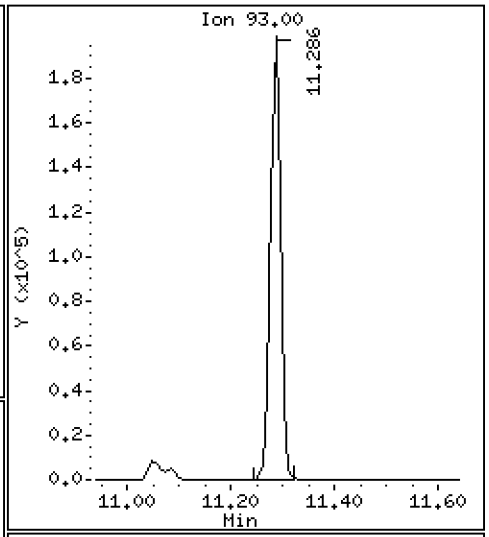
Concentration: 5.654 ug/mL

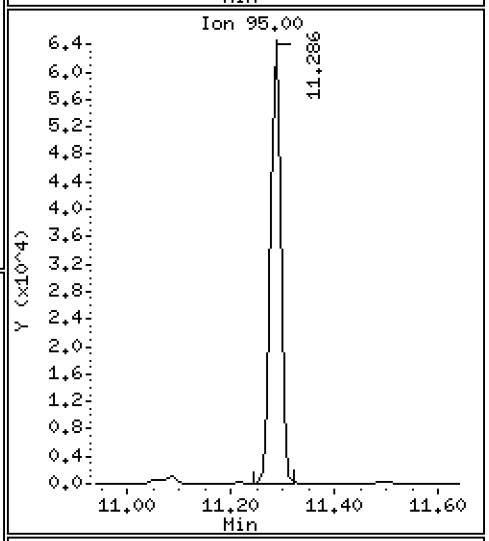


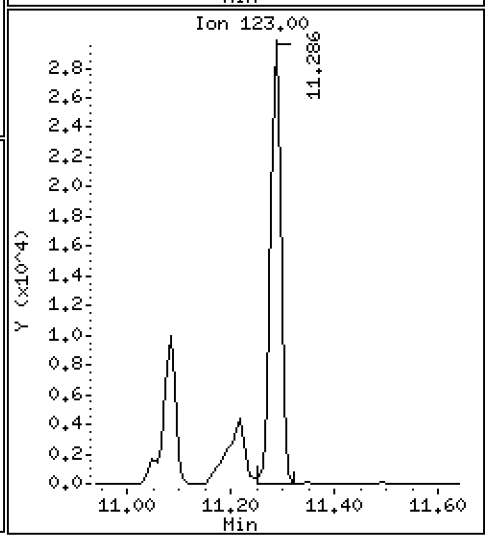












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

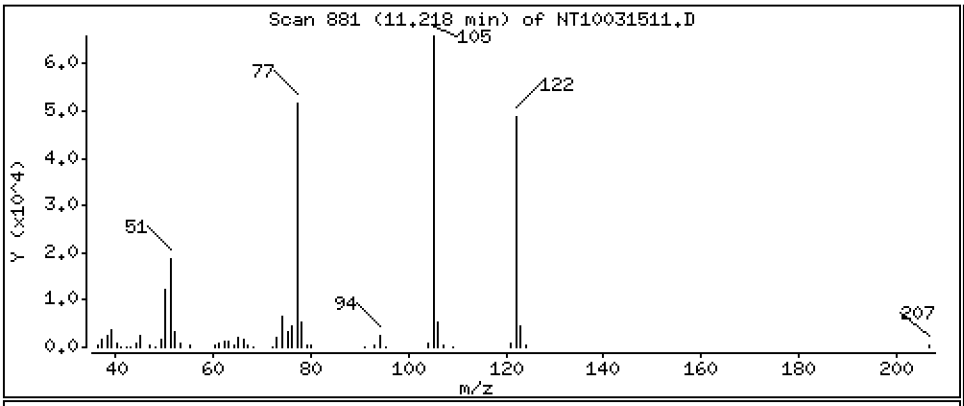
Operator: VTS

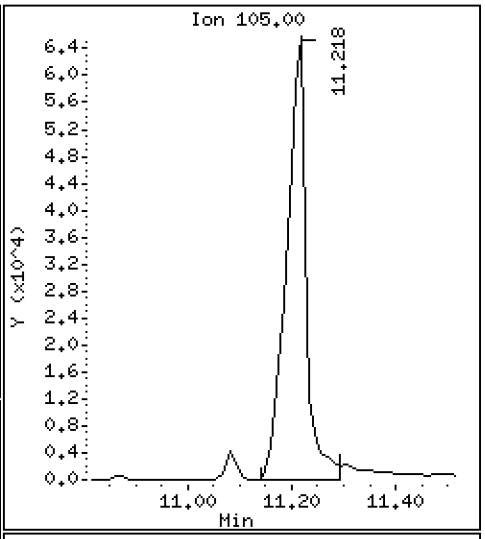
Column phase: ZB-5msi

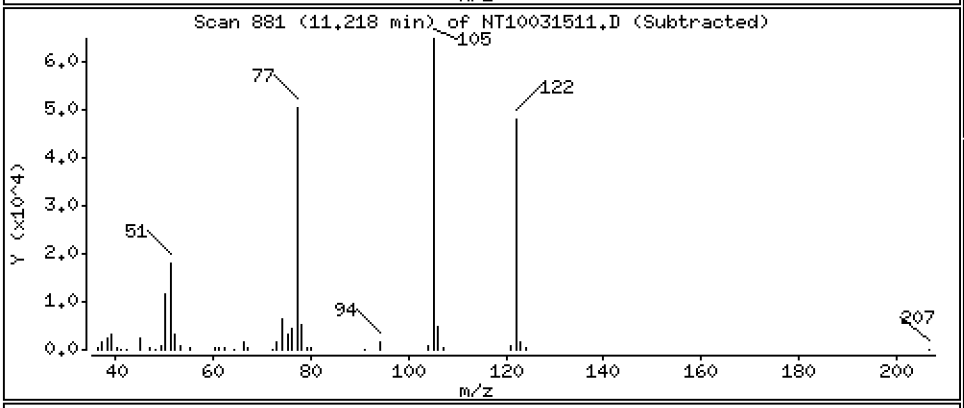
Column diameter: 0.25

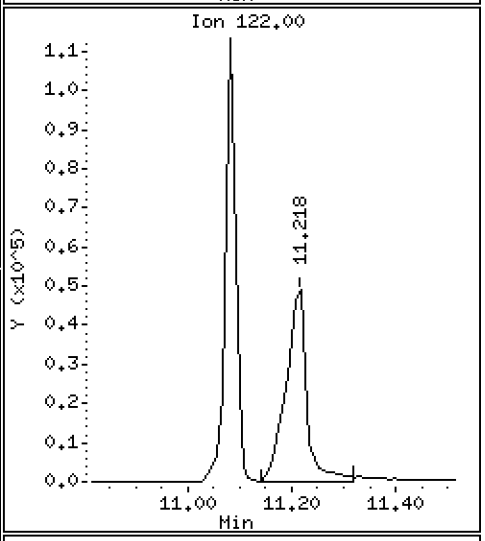
24 Benzoic acid

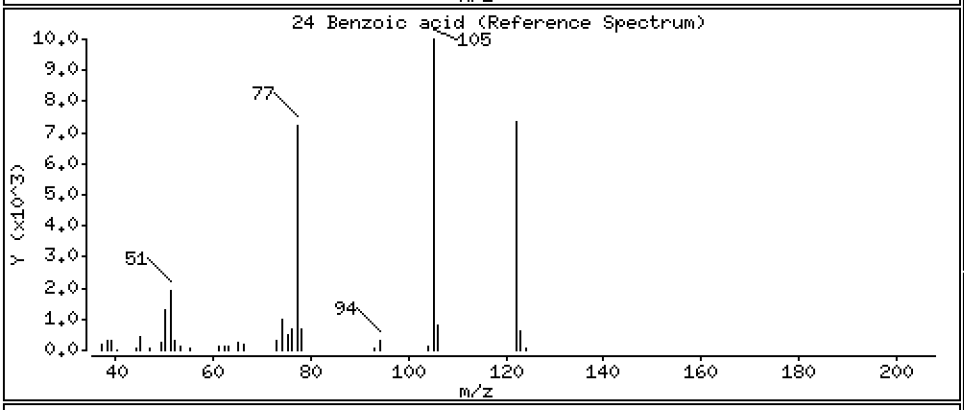
Concentration: 5.952 ug/mL

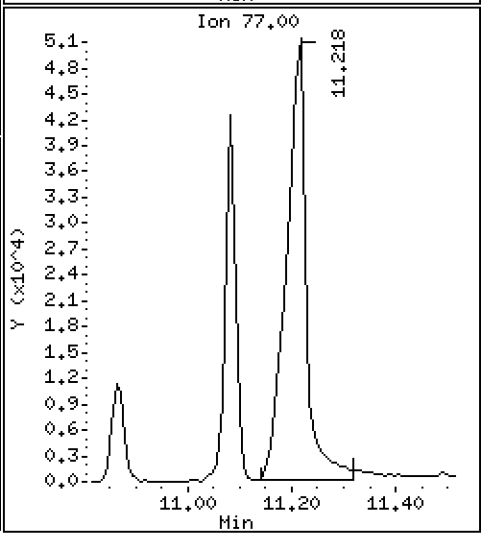


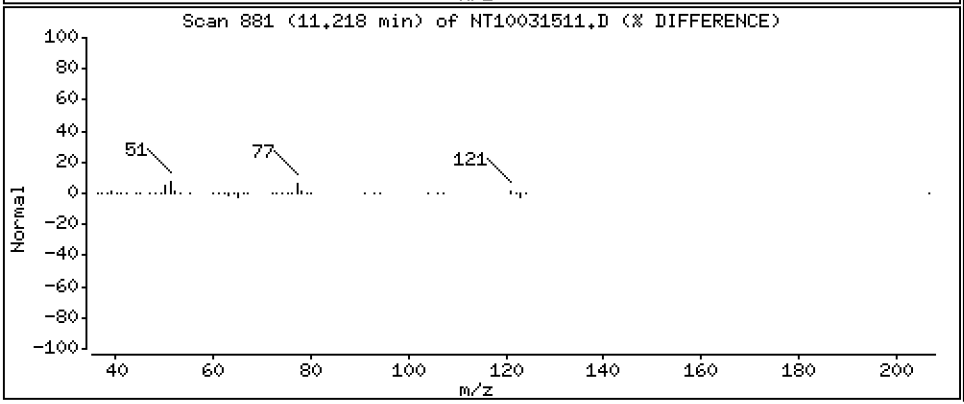












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

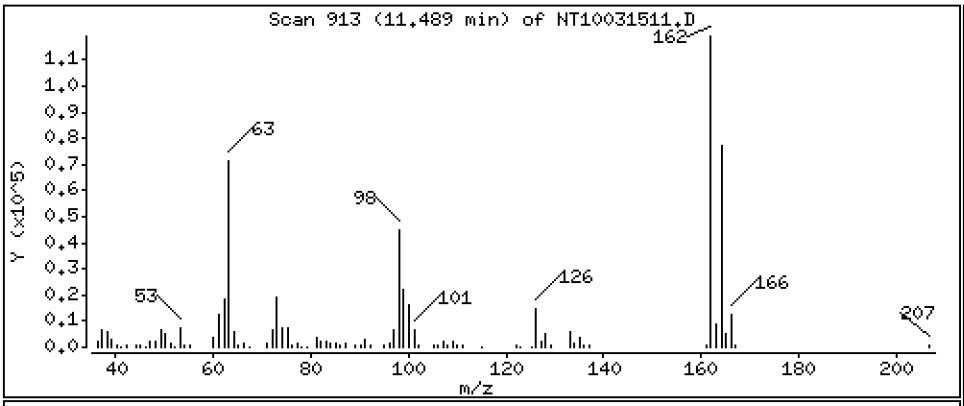
Operator: VTS

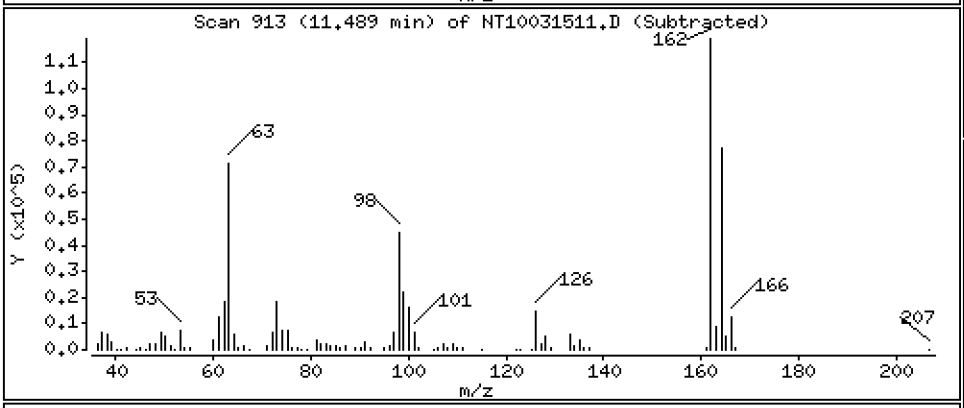
Column phase: ZB-5msi

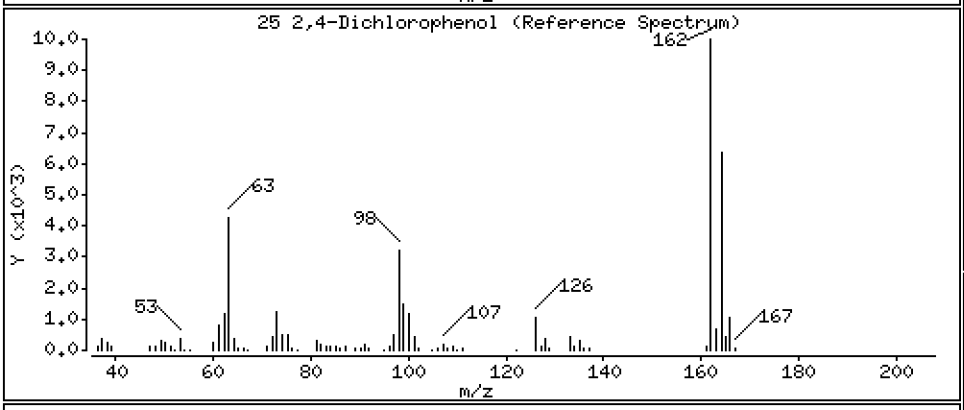
Column diameter: 0.25

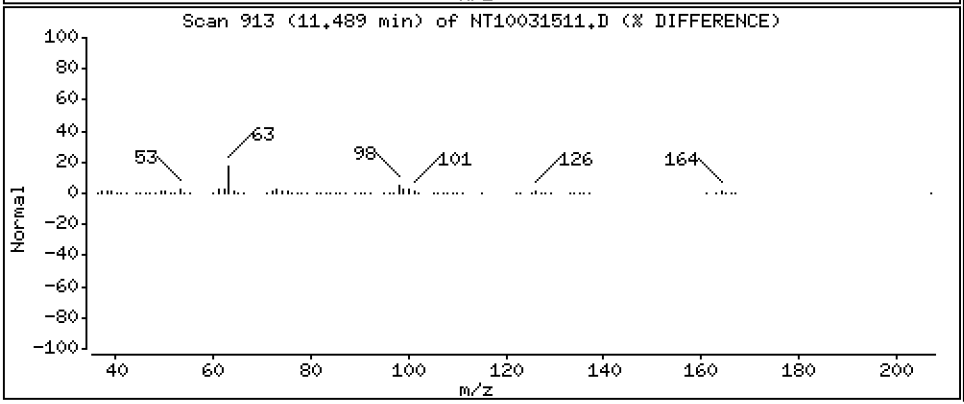
25 2,4-Dichlorophenol

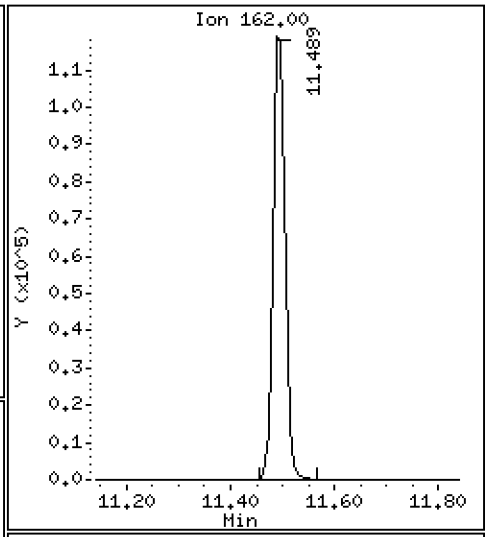
Concentration: 4.703 ug/mL

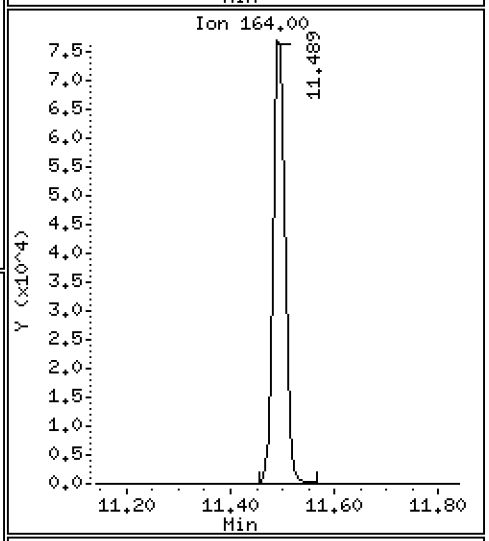


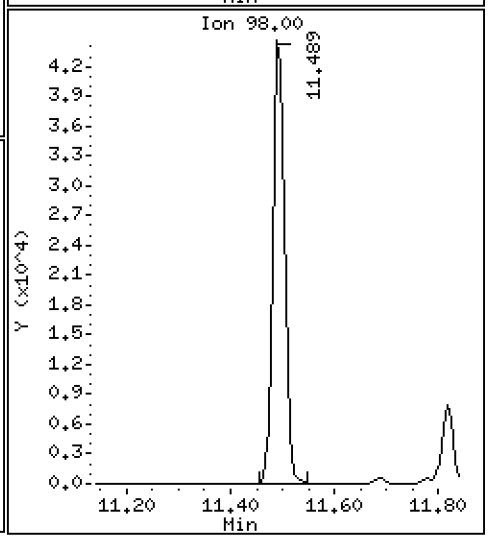












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

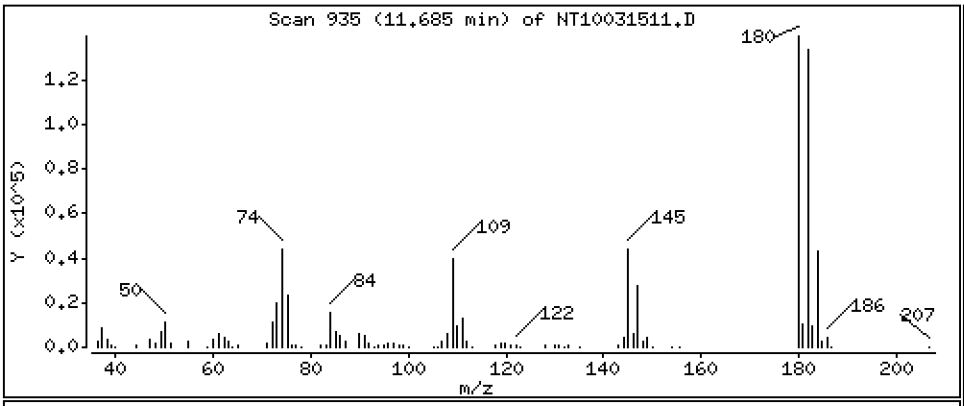
Operator: VTS

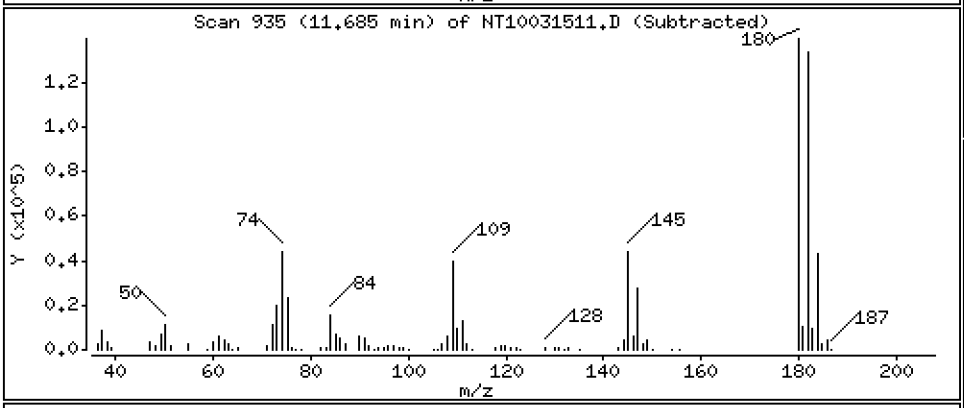
Column phase: ZB-5msi

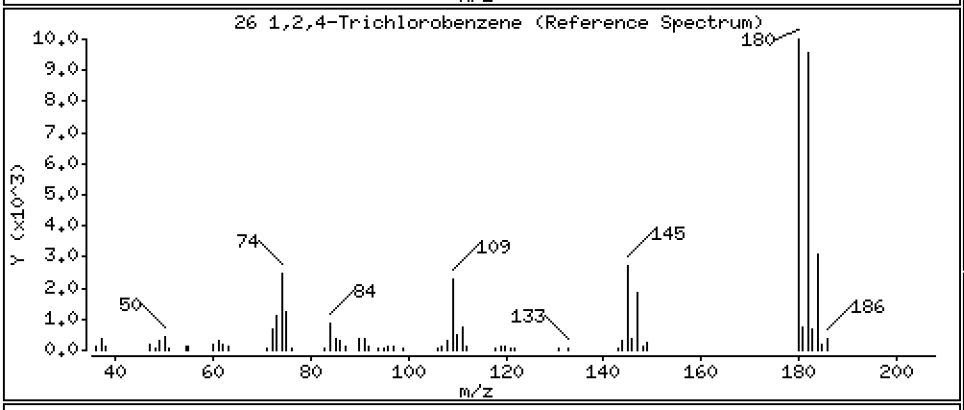
Column diameter: 0.25

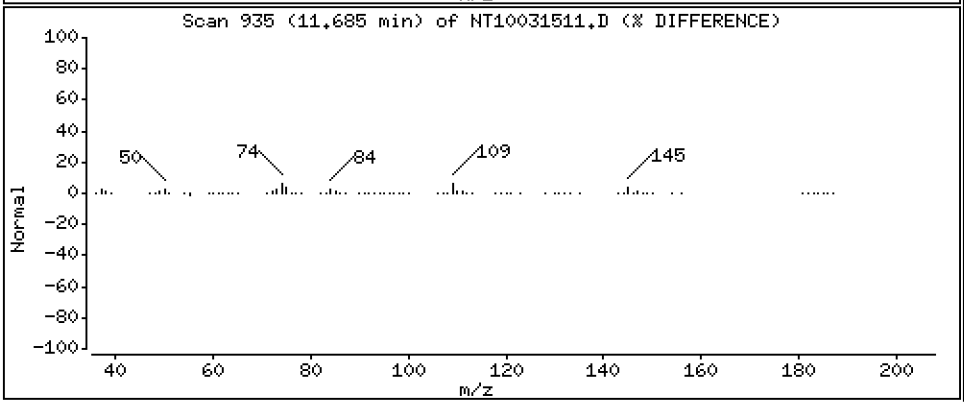
26 1,2,4-Trichlorobenzene

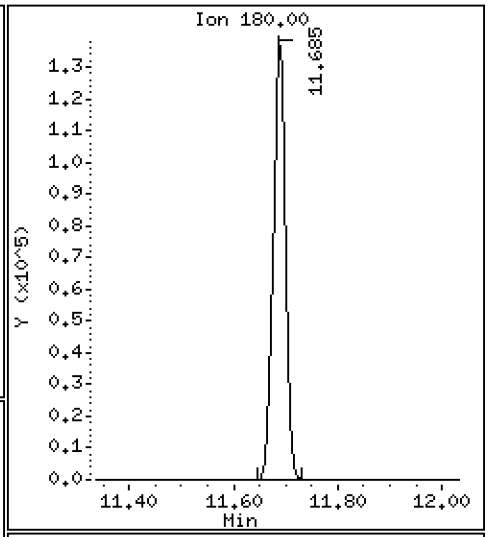
Concentration: 4.554 ug/mL

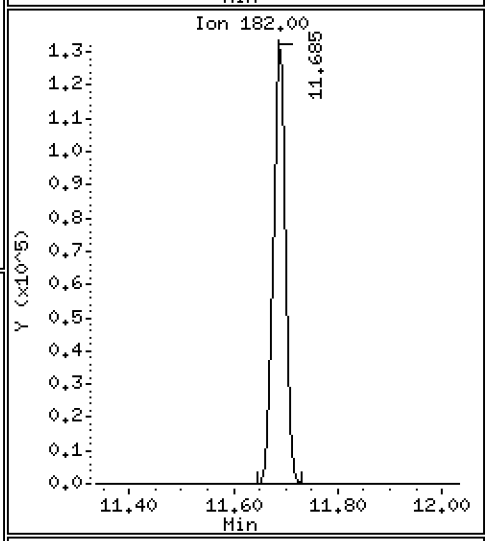


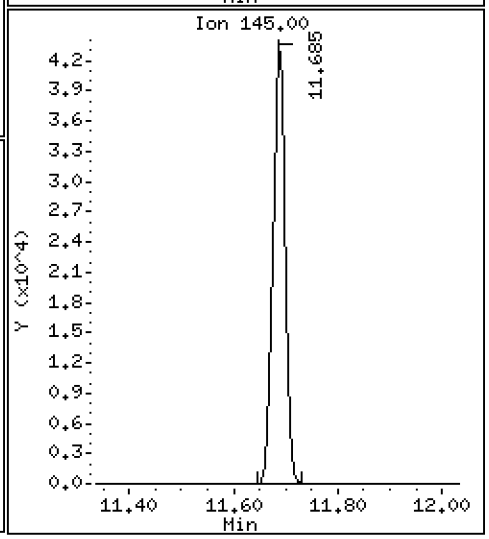












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

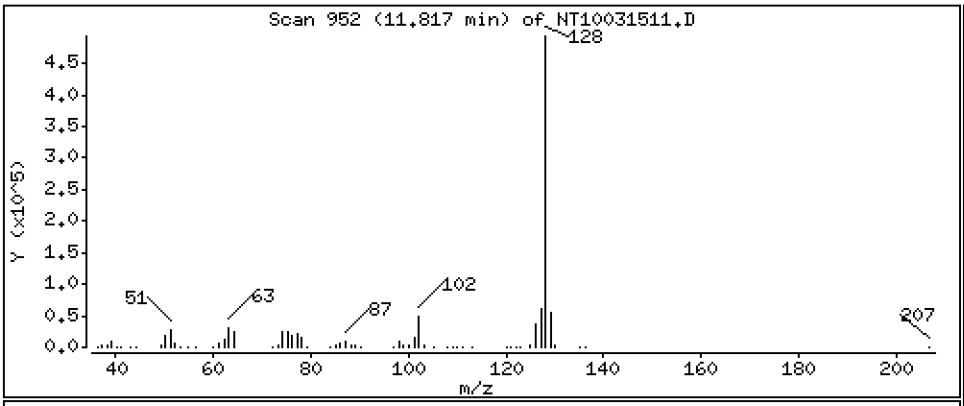
Operator: VTS

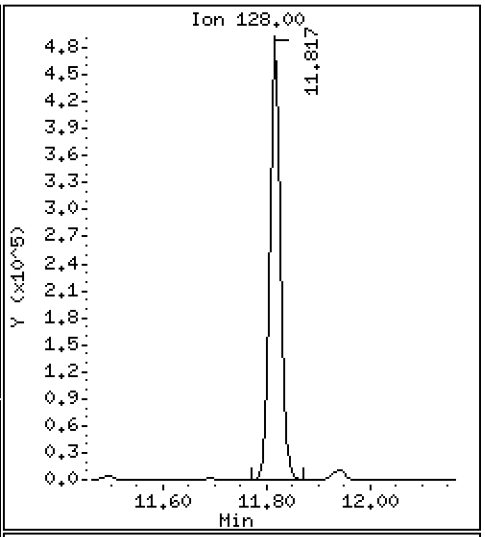
Column phase: ZB-5msi

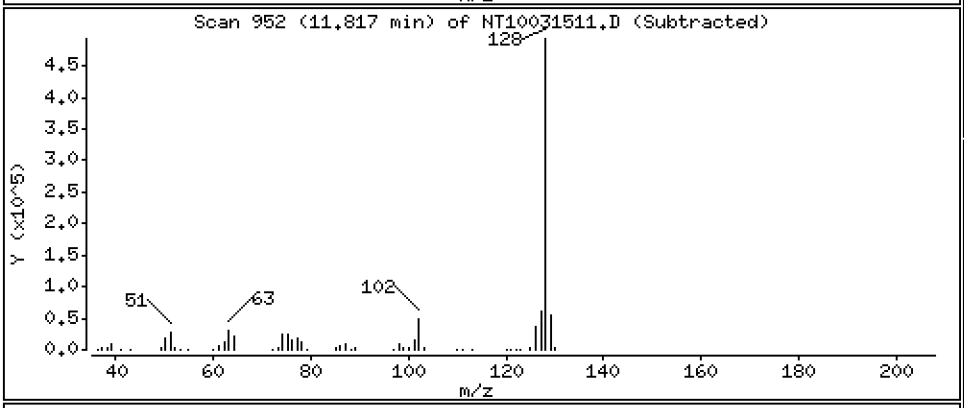
Column diameter: 0.25

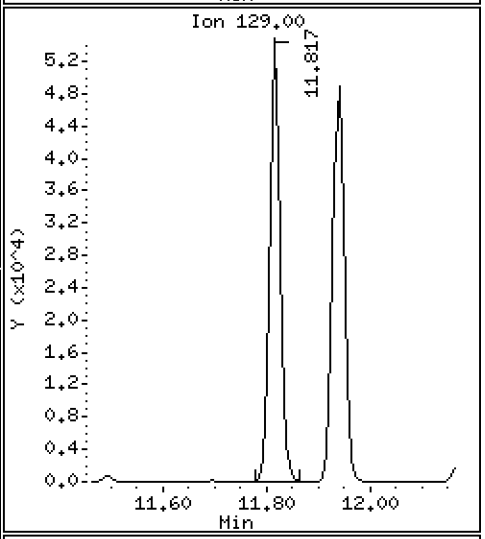
28 Naphthalene

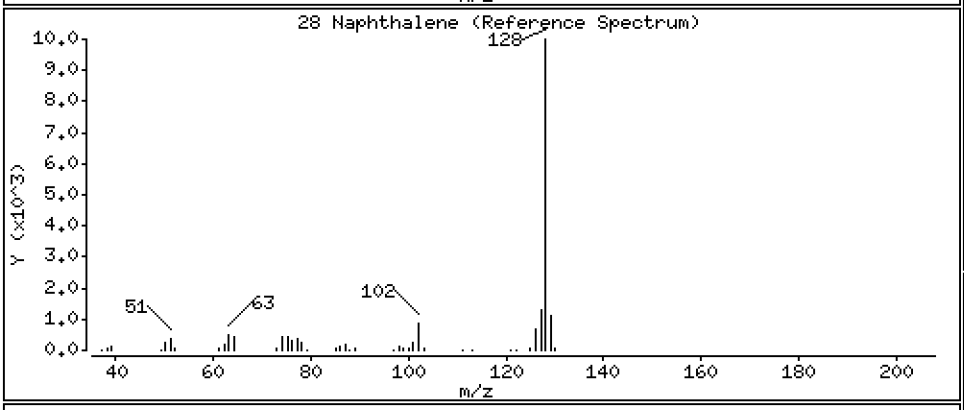
Concentration: 4.717 ug/mL

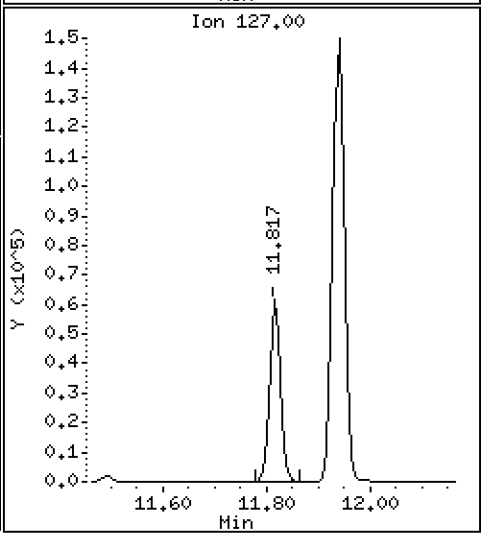


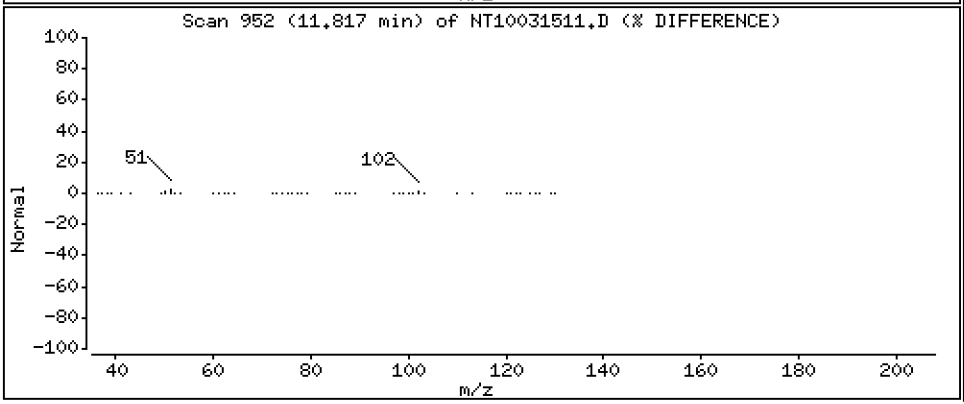












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

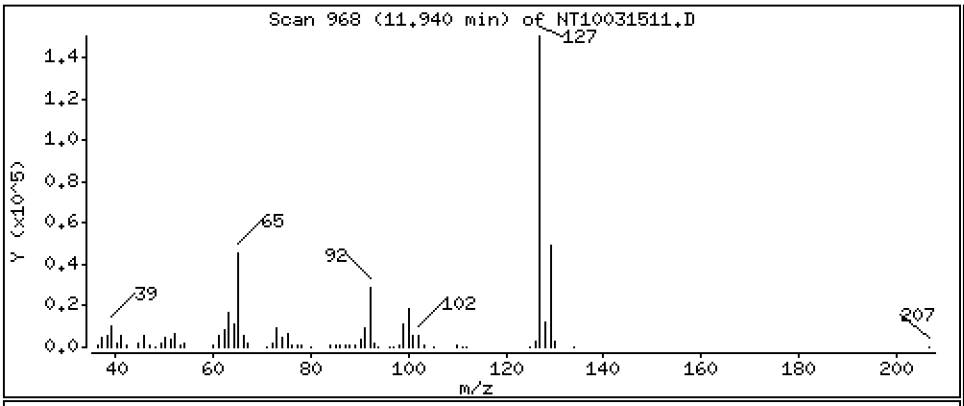
Operator: VTS

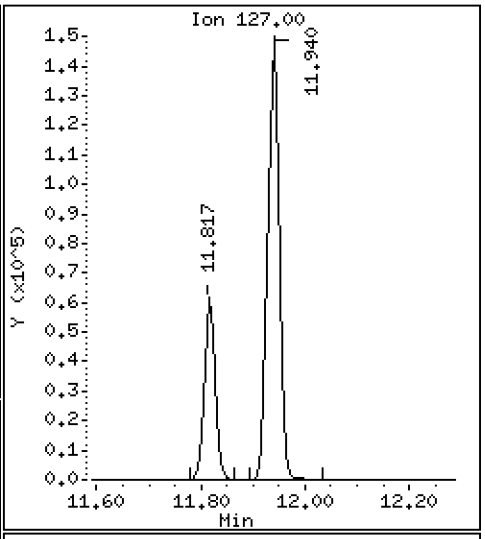
Column phase: ZB-5msi

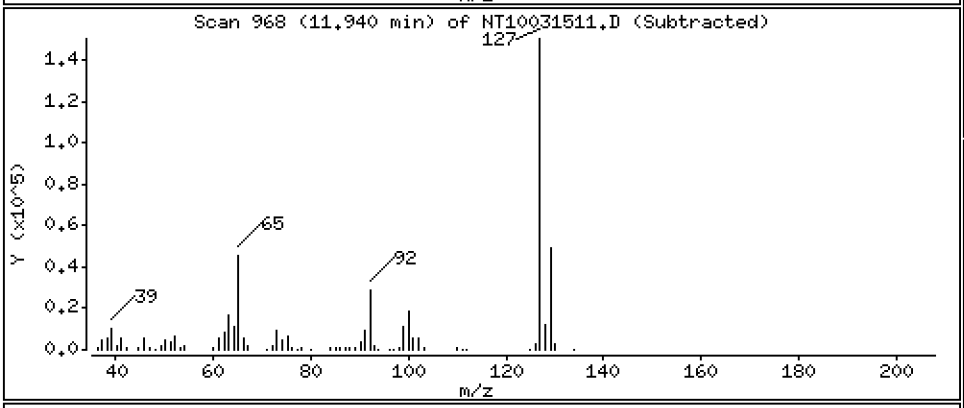
Column diameter: 0.25

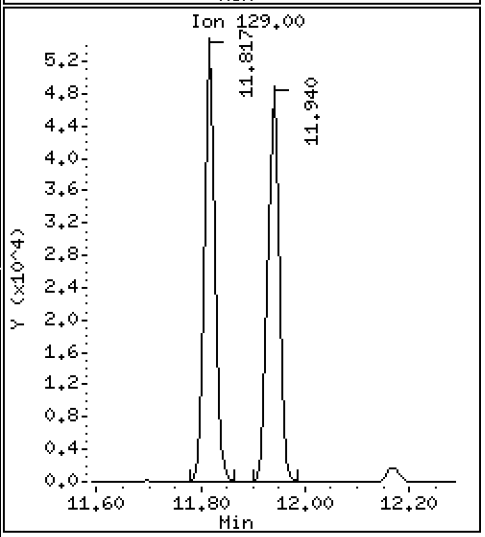
29 4-Chloroaniline

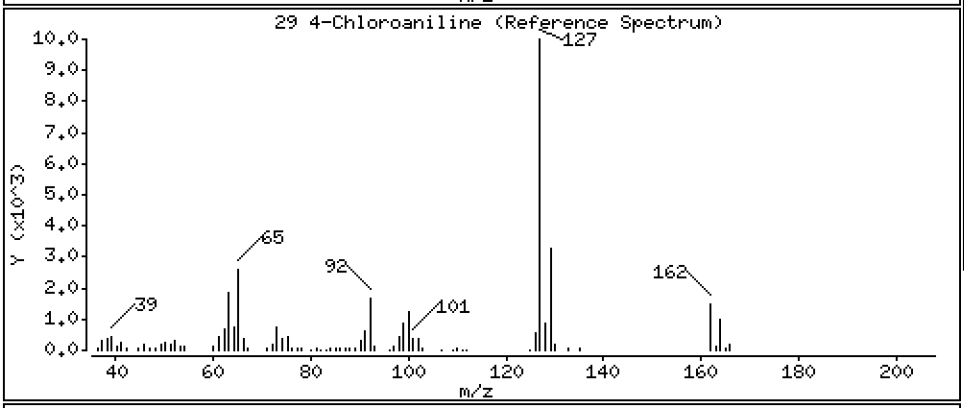
Concentration: 3.787 ug/mL

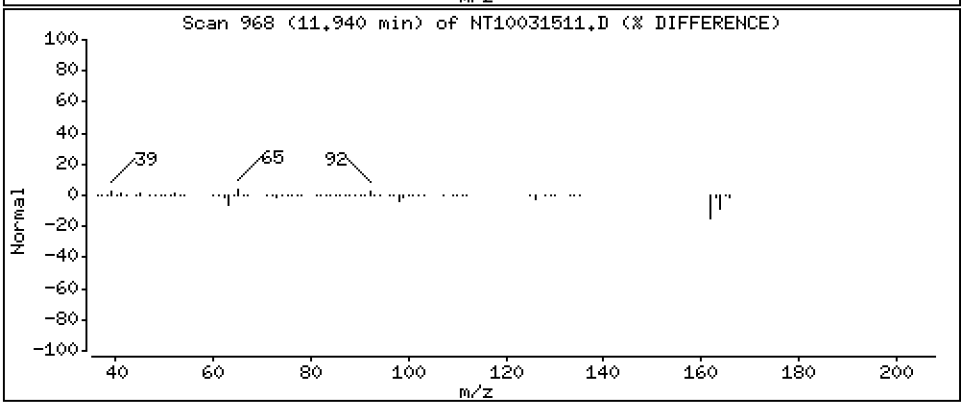












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

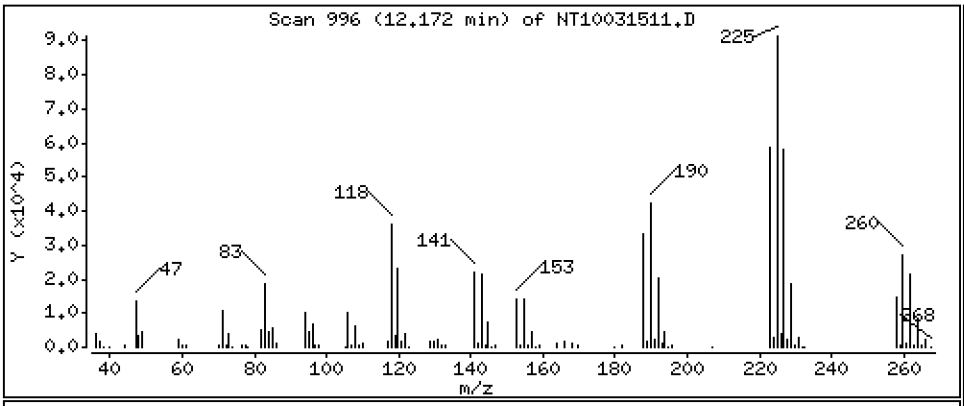
Operator: VTS

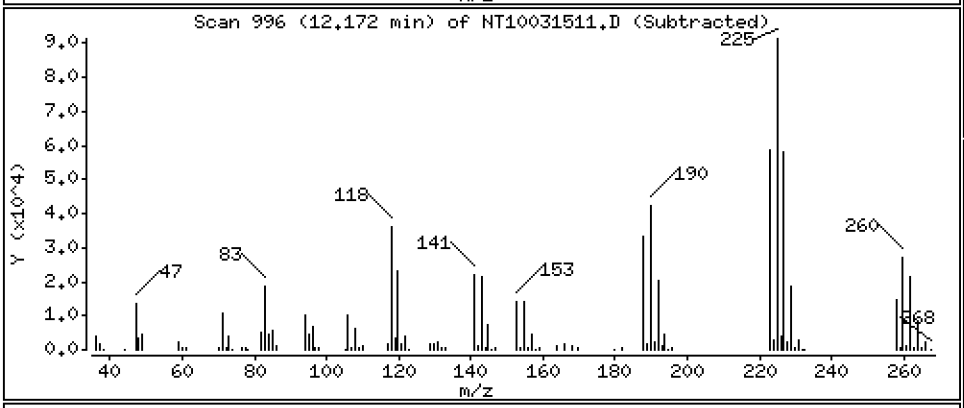
Column phase: ZB-5msi

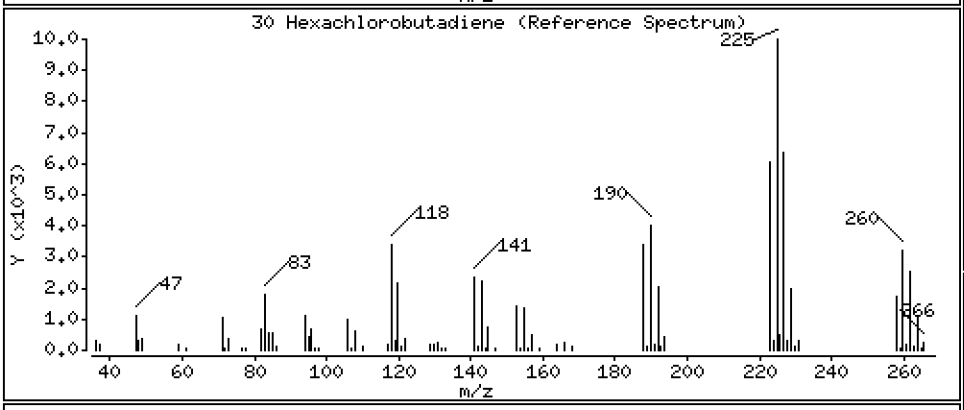
Column diameter: 0.25

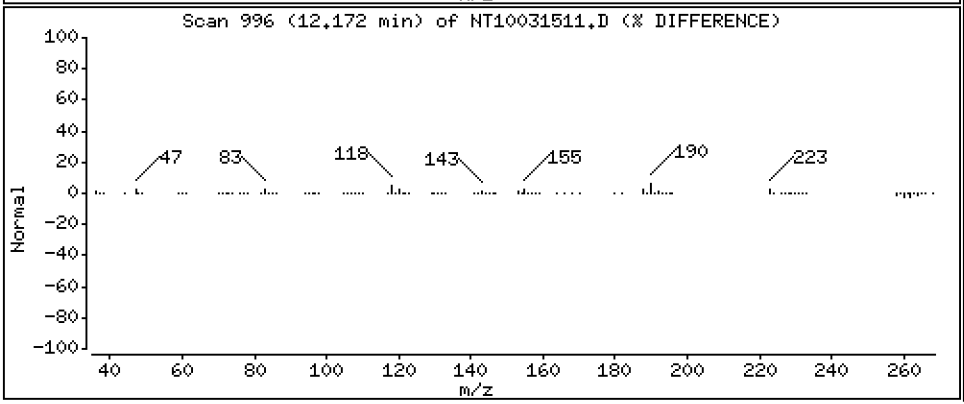
30 Hexachlorobutadiene

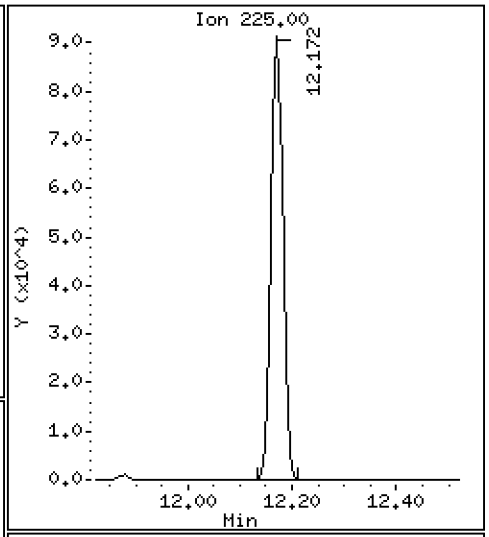
Concentration: 4.834 ug/mL

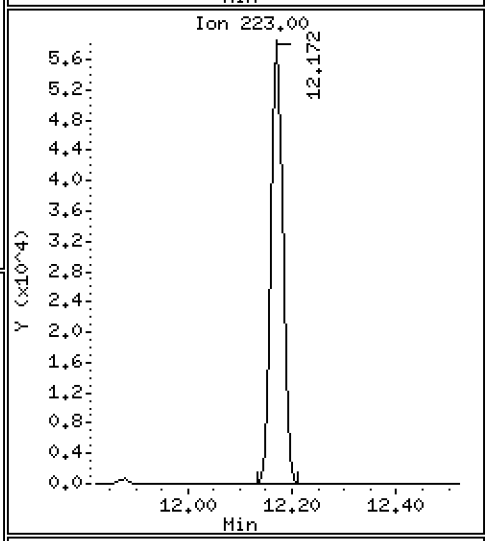


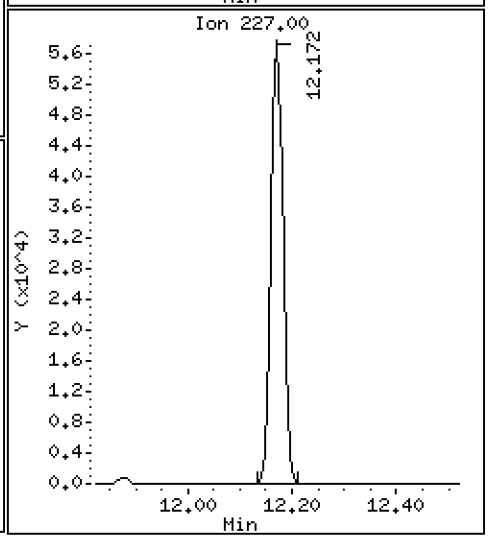












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

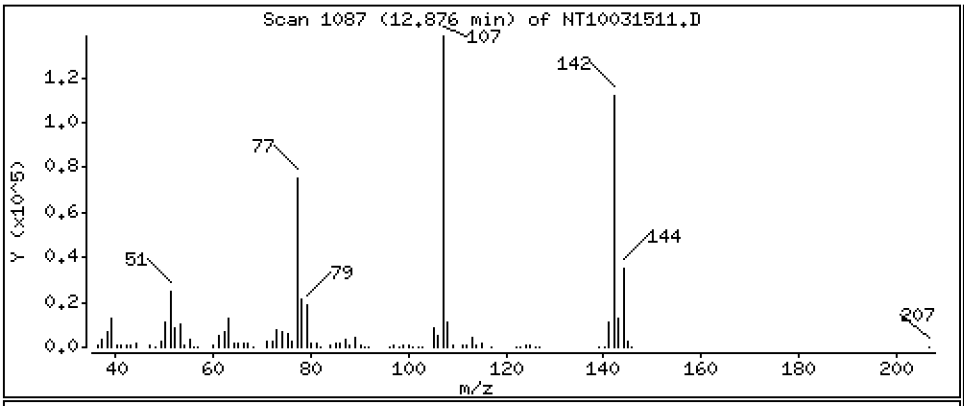
Operator: VTS

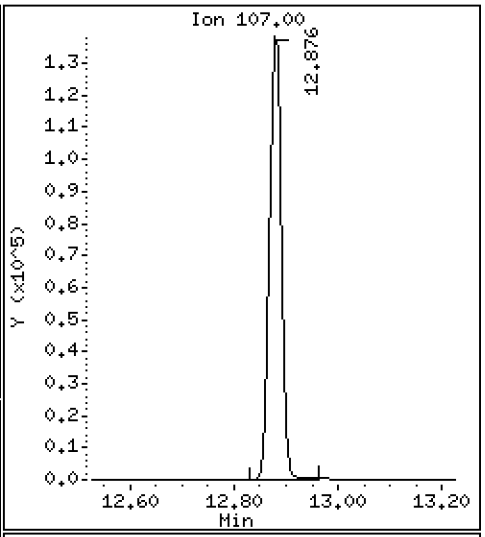
Column phase: ZB-5msi

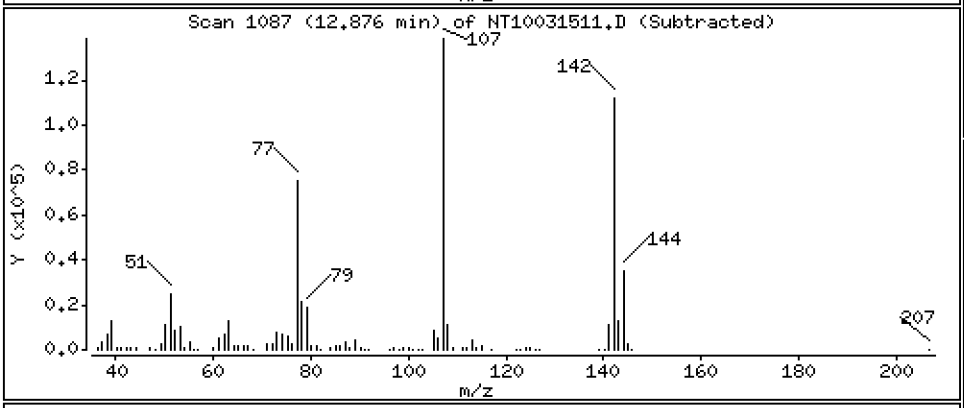
Column diameter: 0.25

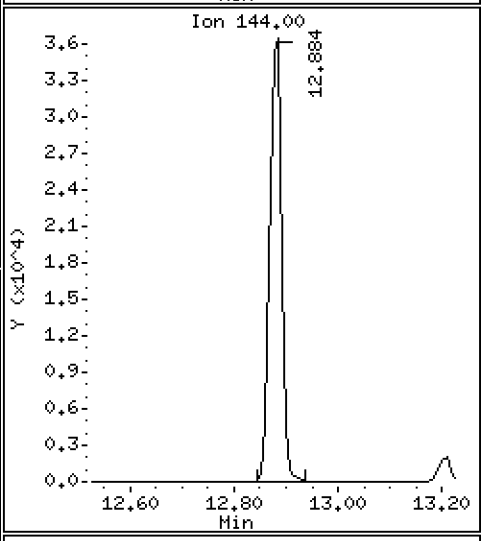
31 4-Chloro-3-methylphenol

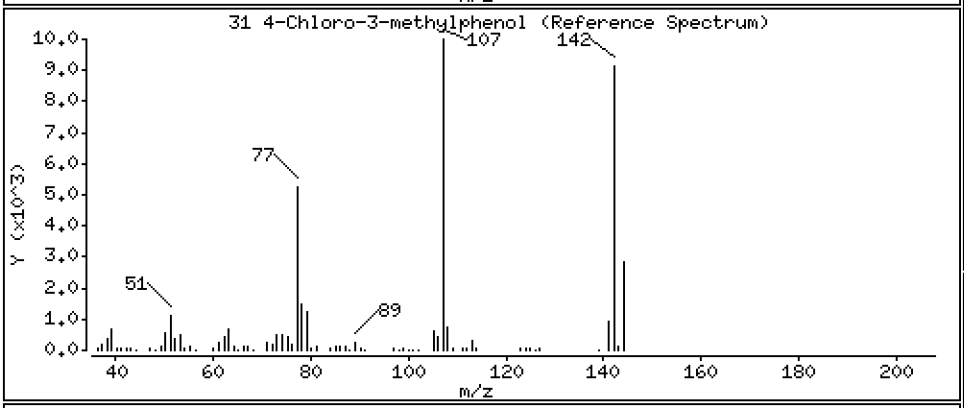
Concentration: 4.640 ug/mL

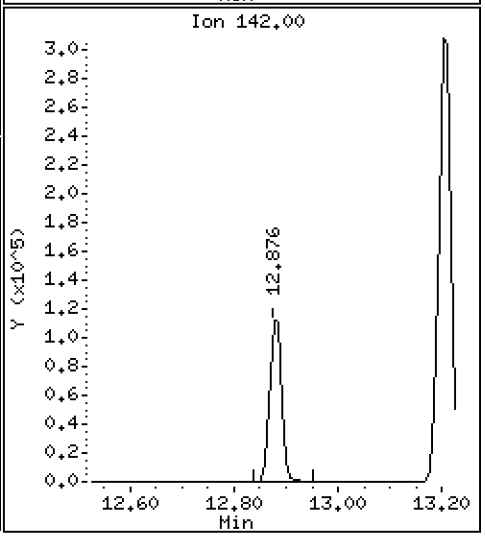


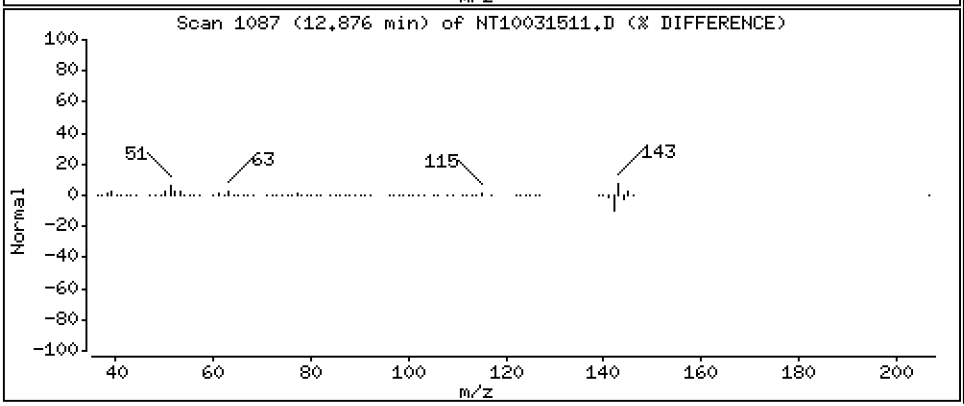












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

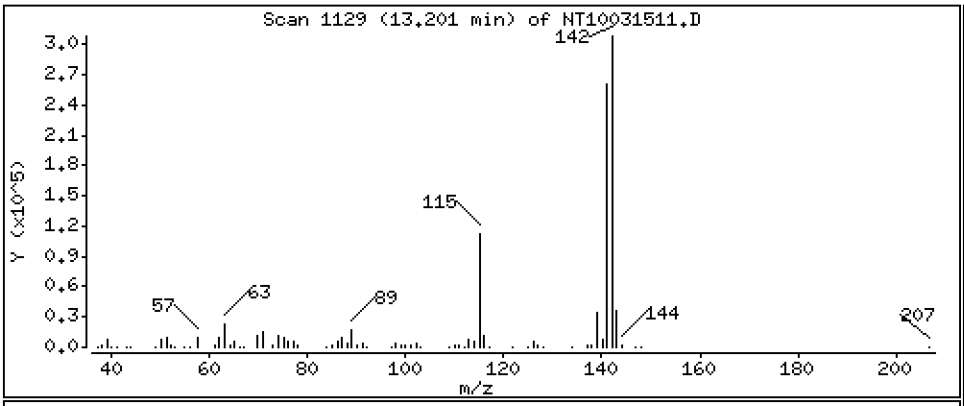
Operator: VTS

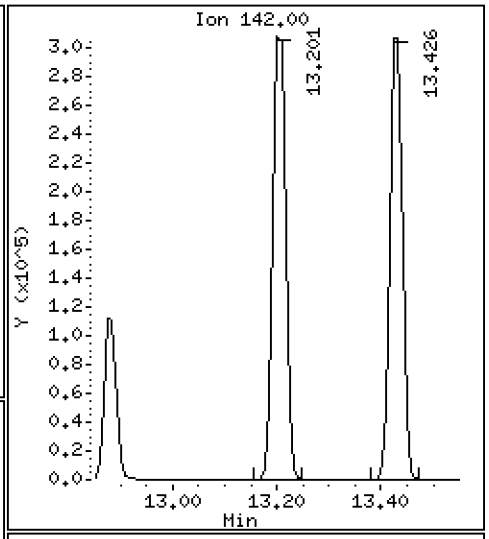
Column phase: ZB-5msi

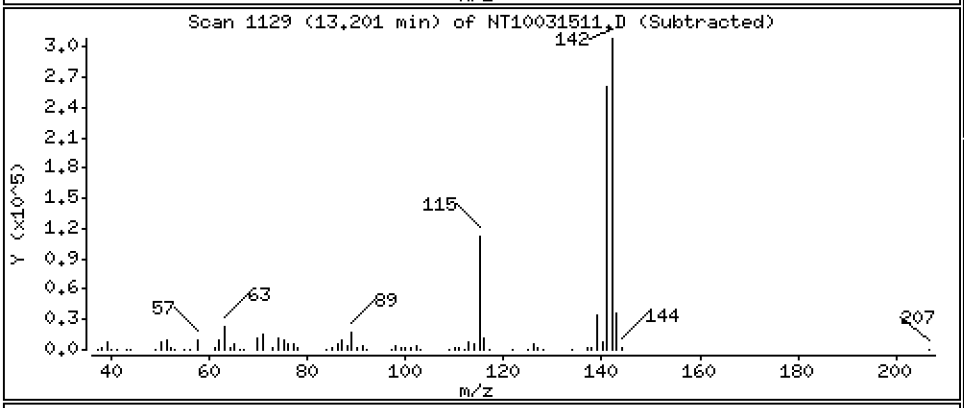
Column diameter: 0.25

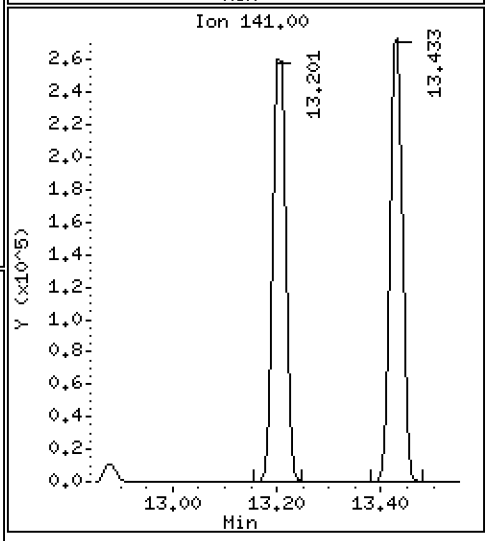
32 2-Methylnaphthalene

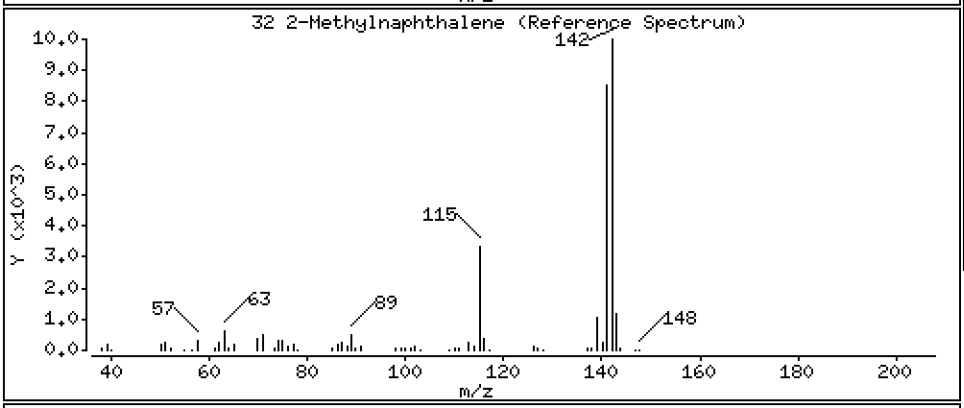
Concentration: 4.596 ug/mL

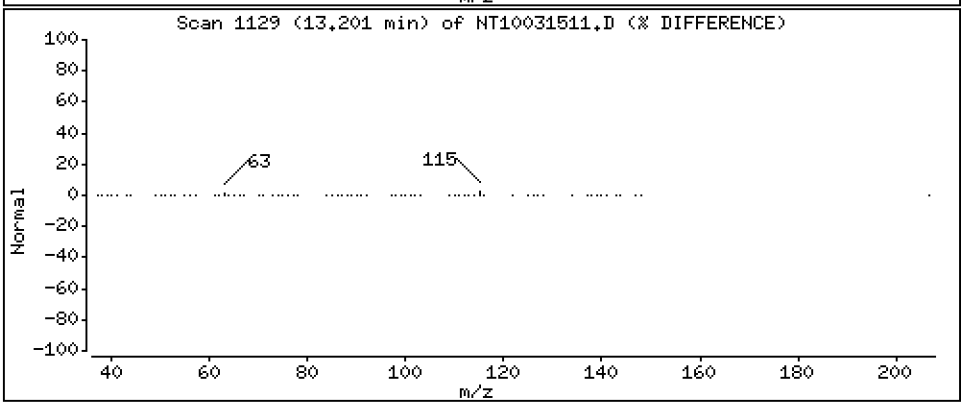












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

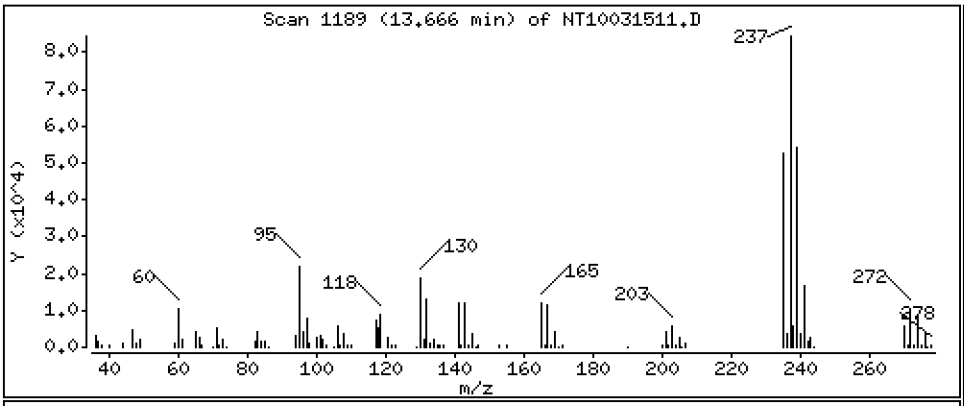
Operator: VTS

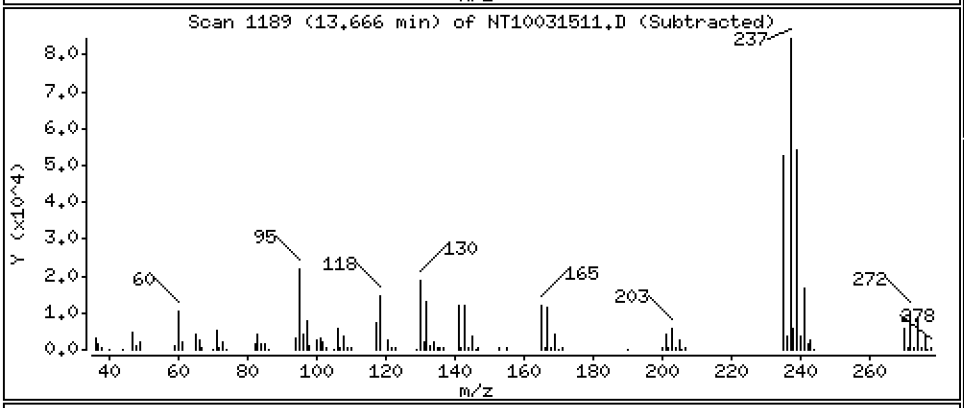
Column phase: ZB-5msi

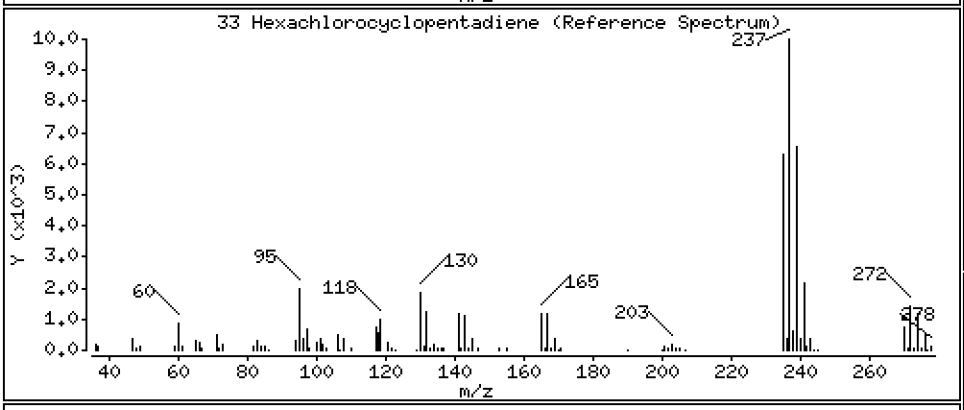
Column diameter: 0.25

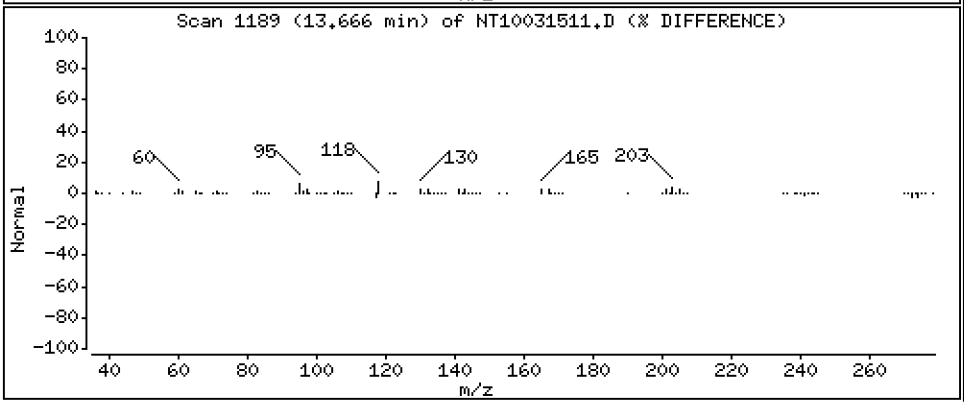
33 Hexachlorocyclopentadiene

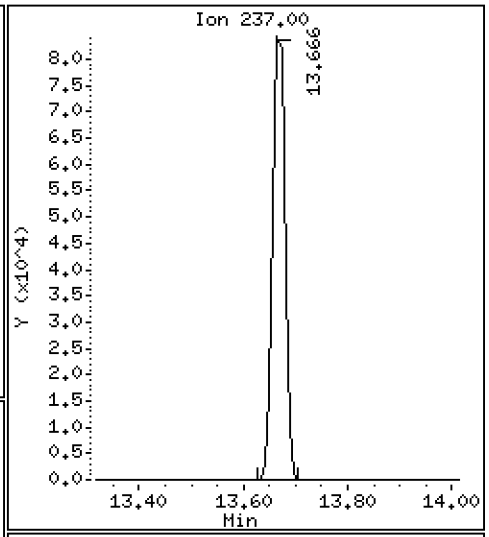
Concentration: 4.729 ug/mL

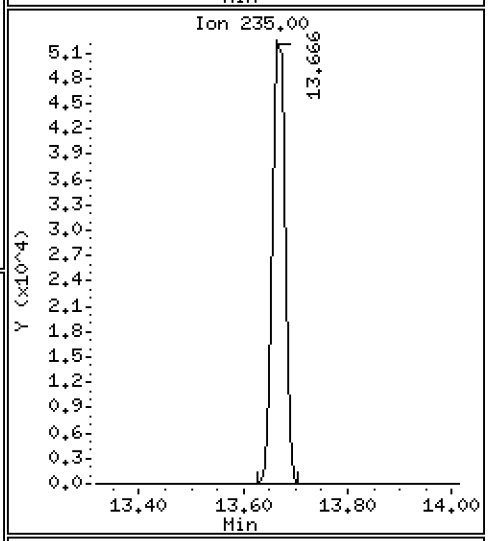


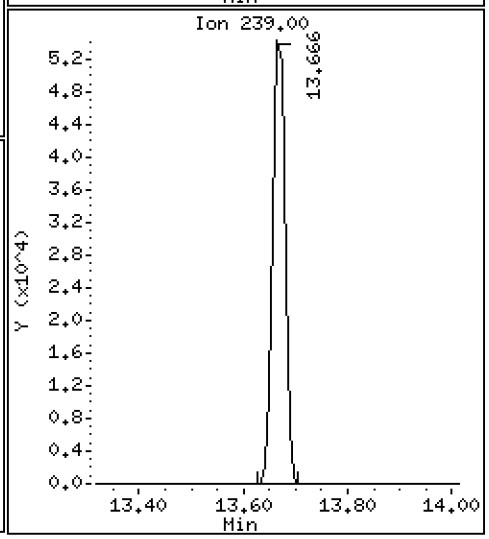












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

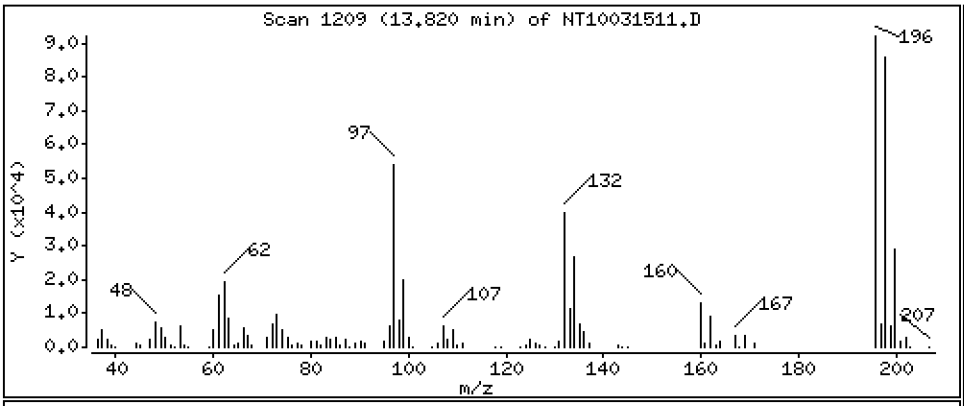
Operator: VTS

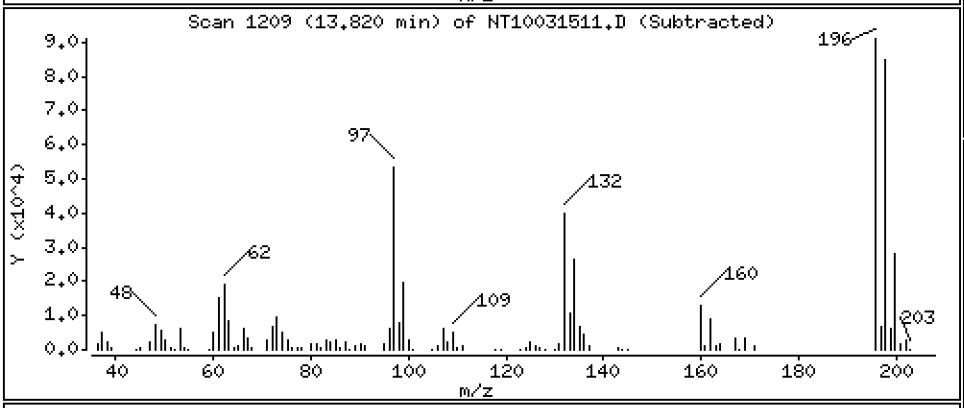
Column phase: ZB-5msi

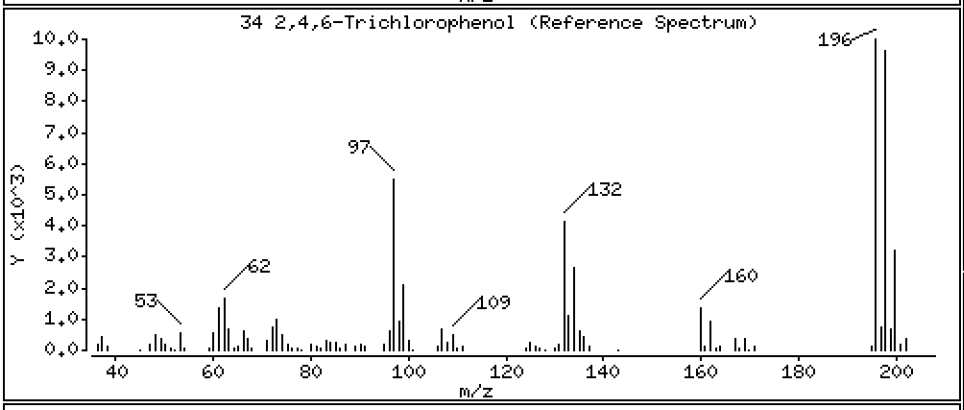
Column diameter: 0.25

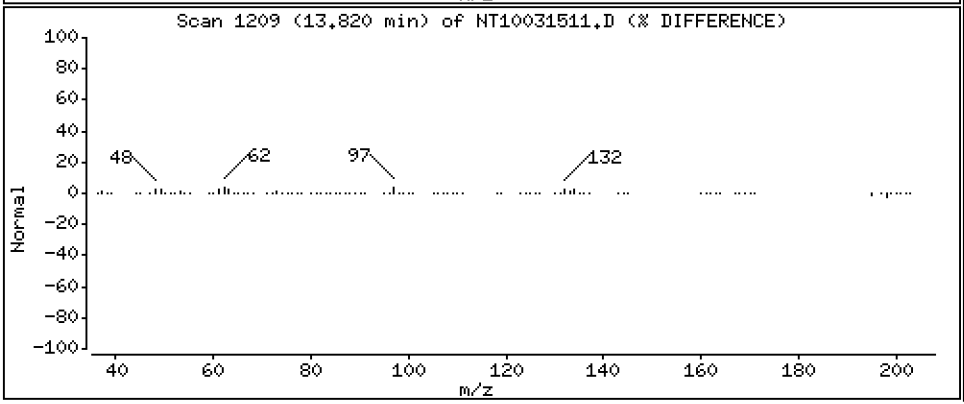
34 2,4,6-Trichlorophenol

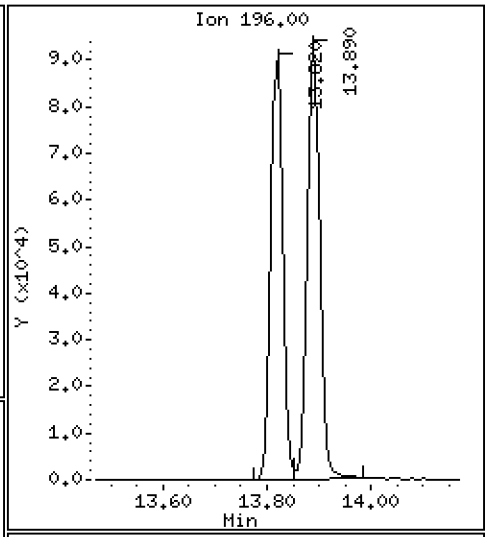
Concentration: 4.596 ug/mL

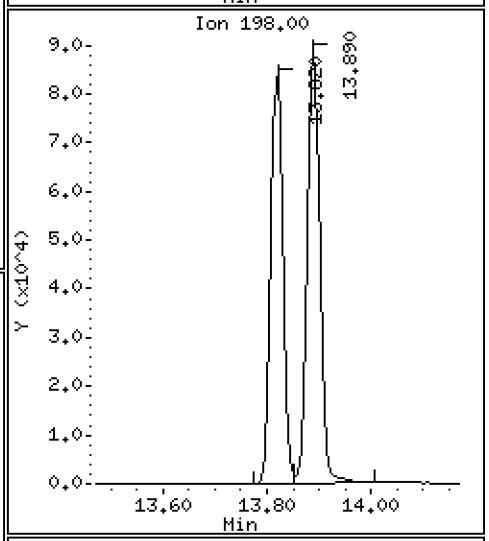


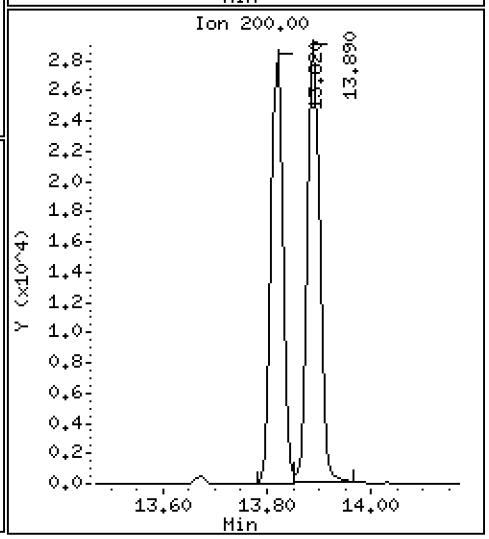












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

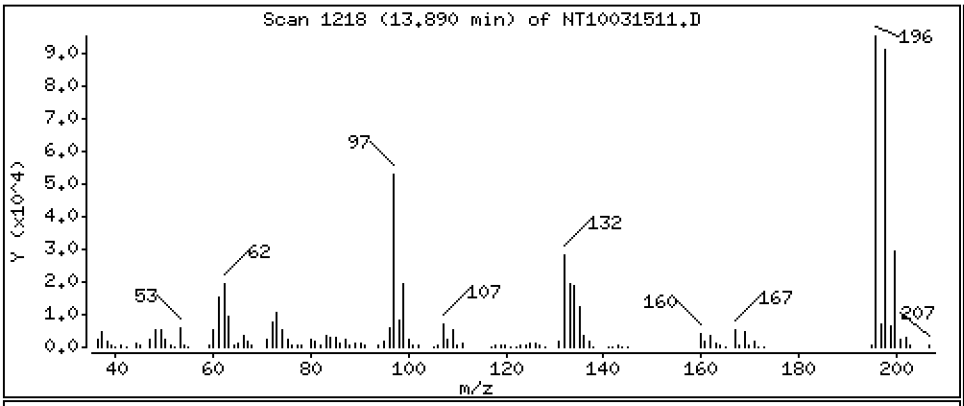
Operator: VTS

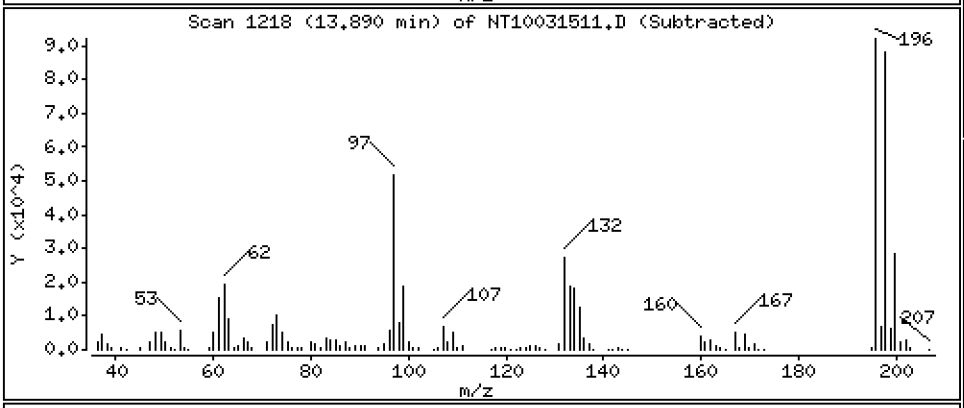
Column phase: ZB-5msi

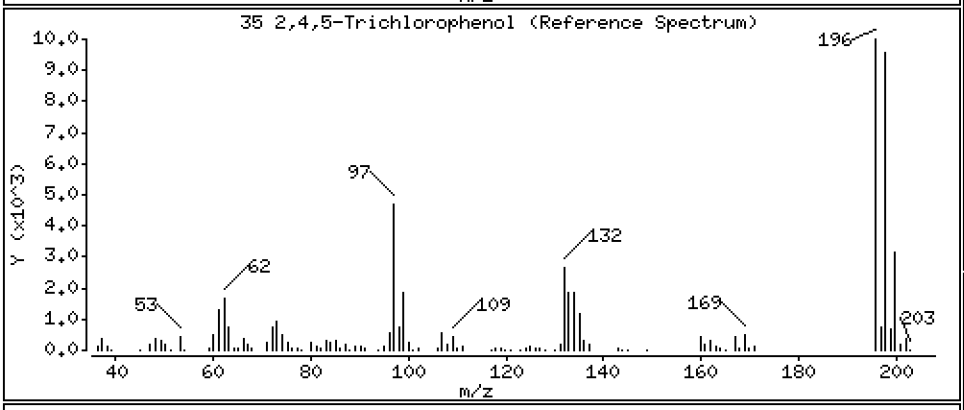
Column diameter: 0.25

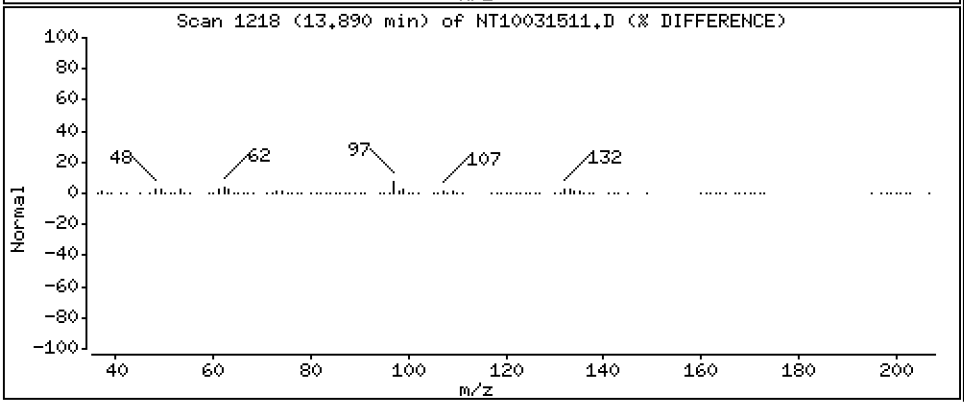
35 2,4,5-Trichlorophenol

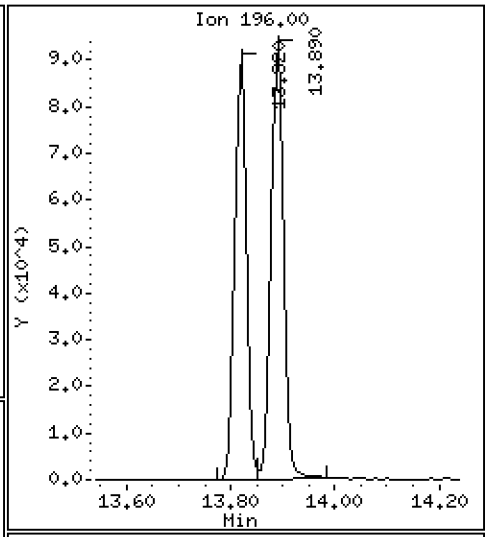
Concentration: 4.409 ug/mL

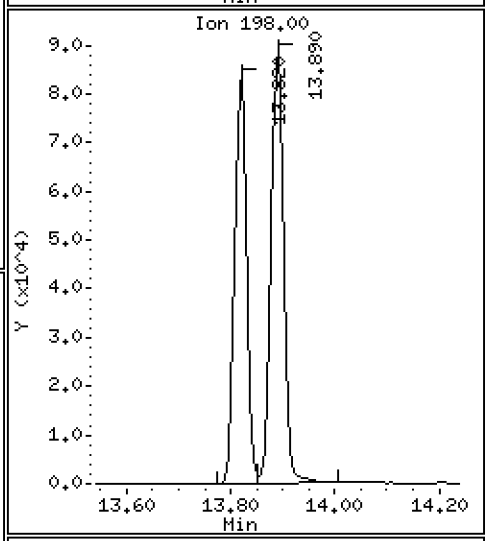


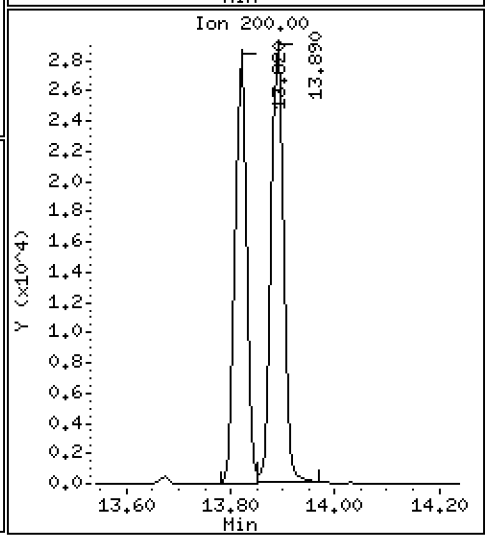












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

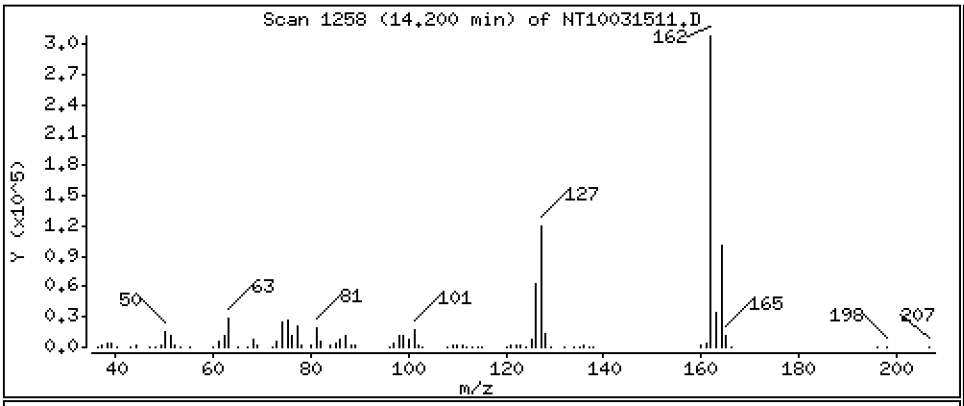
Operator: VTS

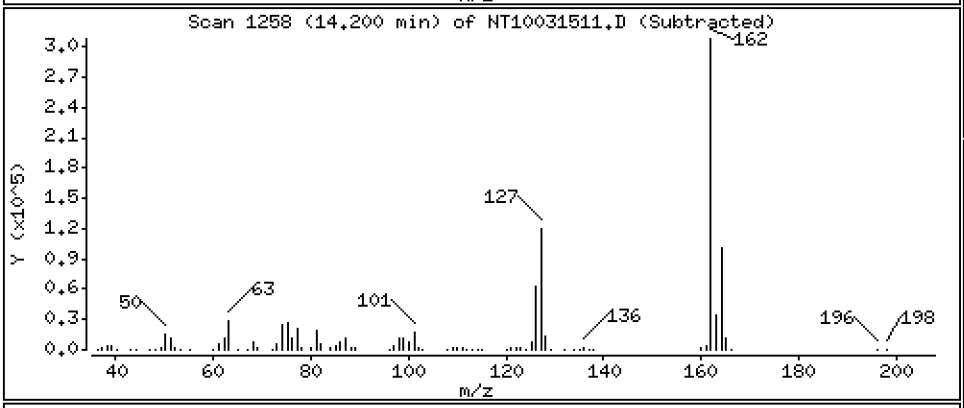
Column phase: ZB-5msi

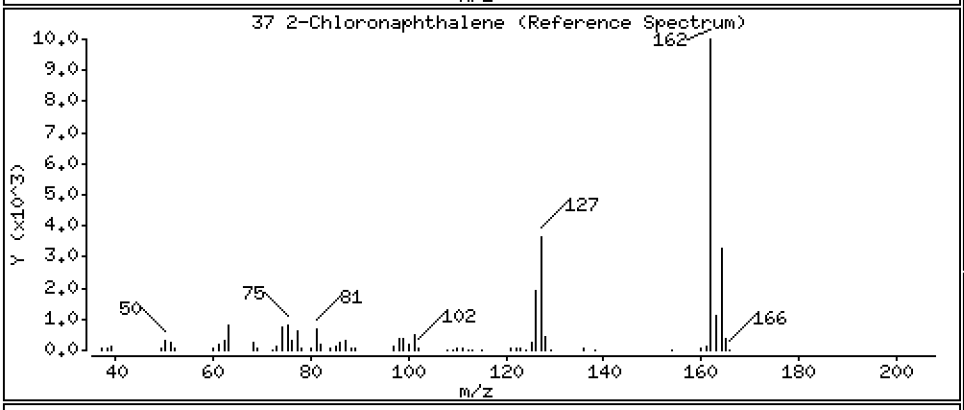
Column diameter: 0.25

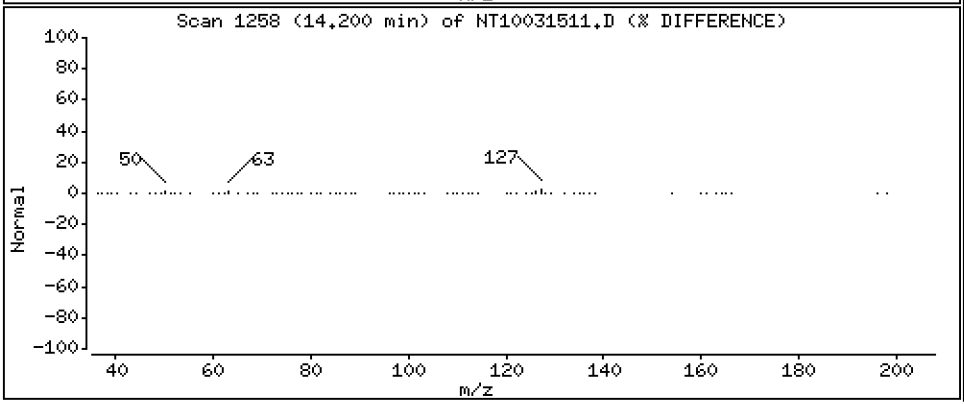
37 2-Chloronaphthalene

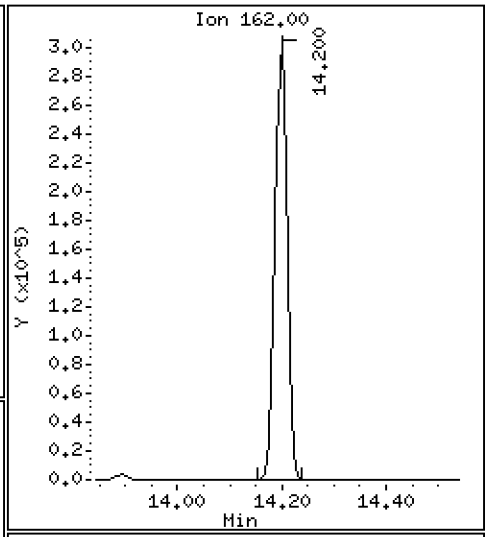
Concentration: 4.796 ug/mL

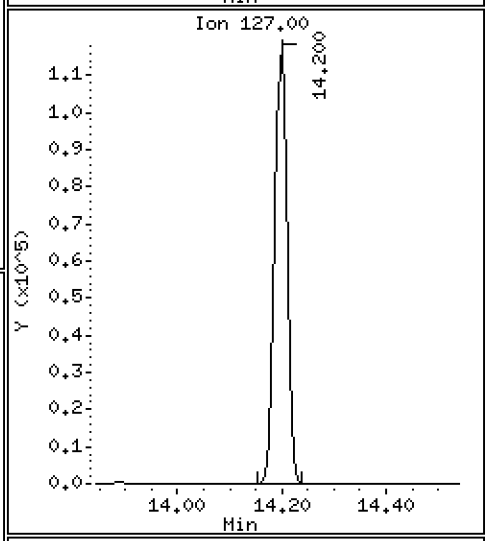


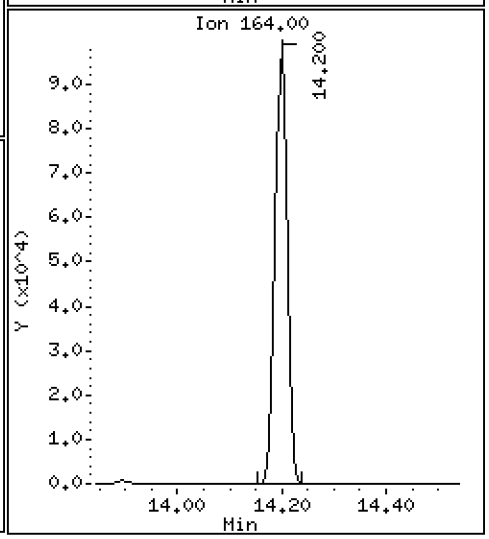












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

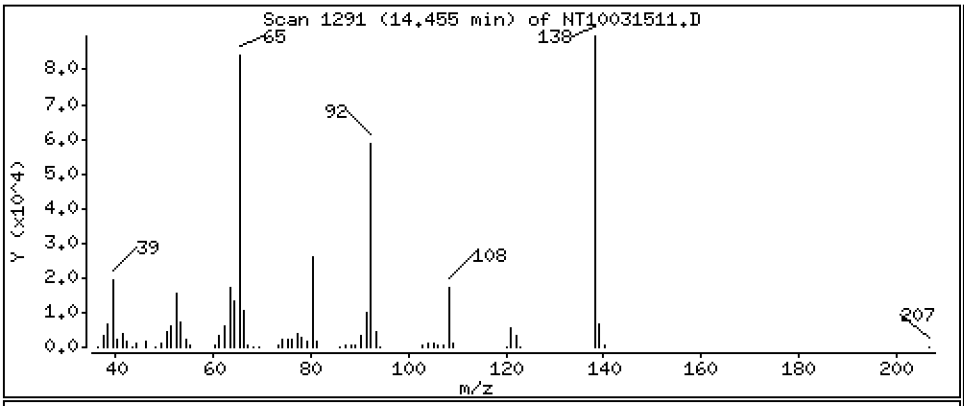
Operator: VTS

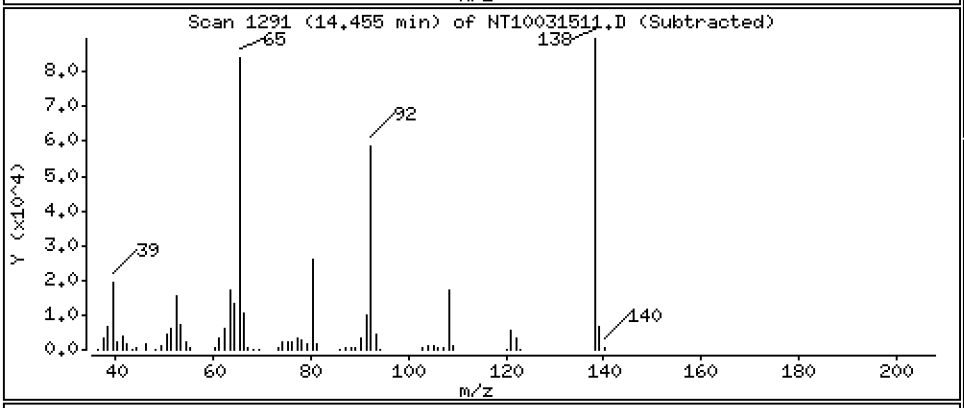
Column phase: ZB-5msi

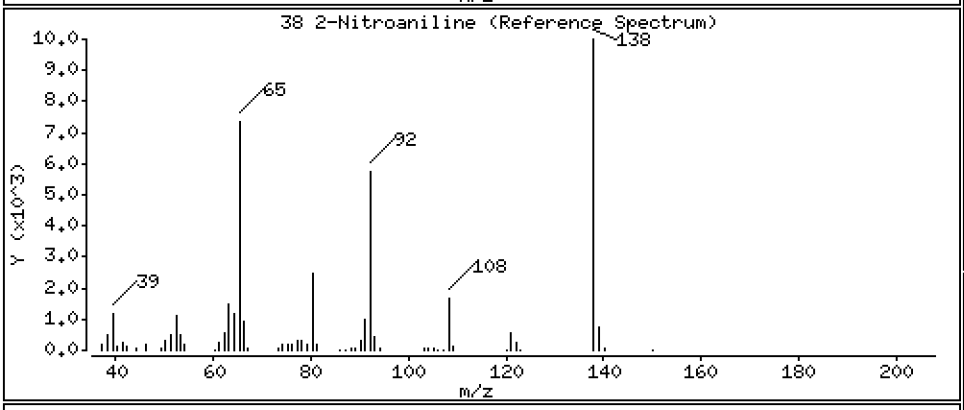
Column diameter: 0.25

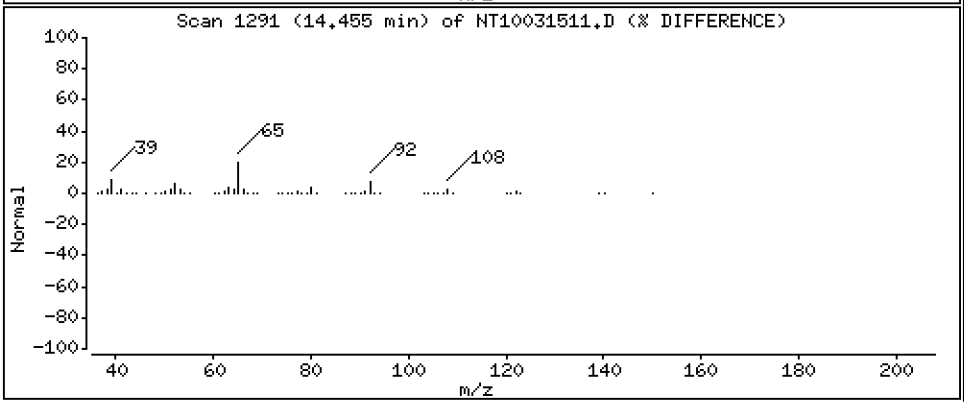
38 2-Nitroaniline

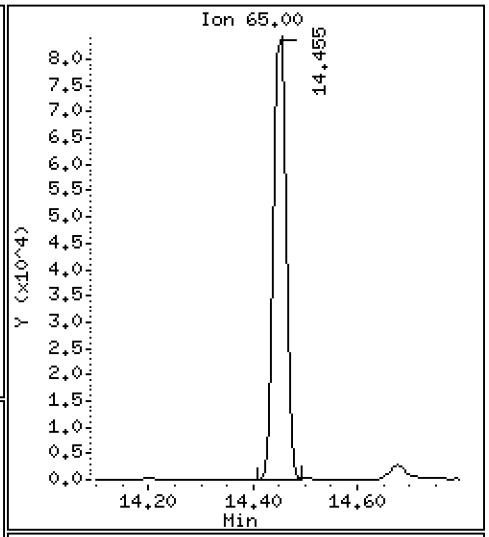
Concentration: 4.911 ug/mL

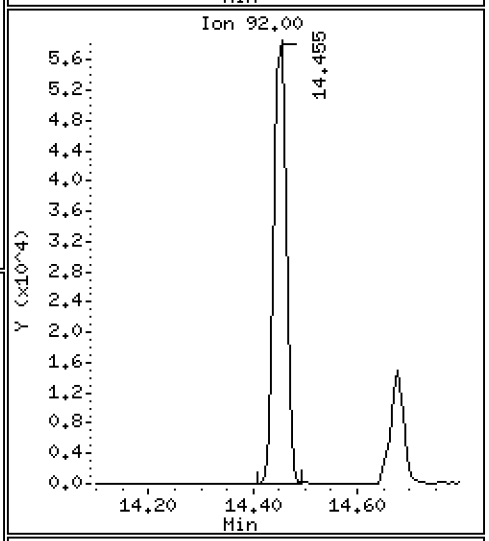


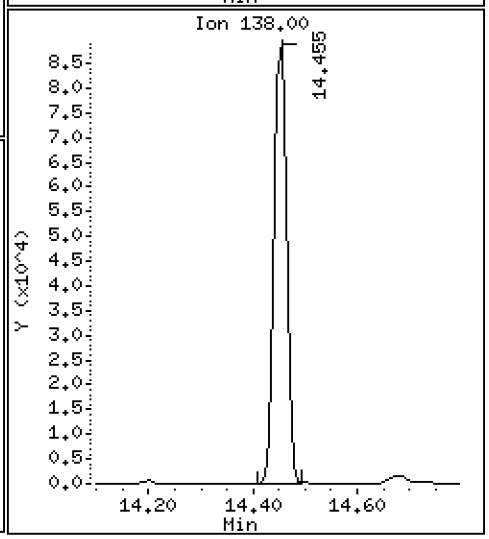












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

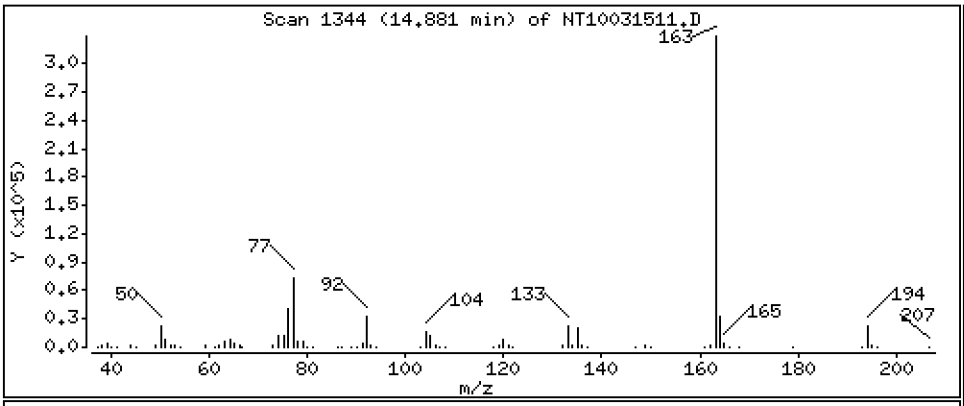
Operator: VTS

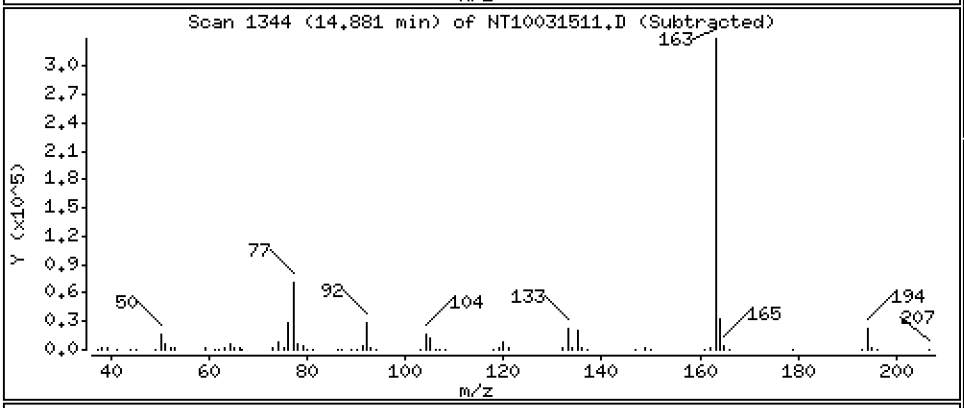
Column phase: ZB-5msi

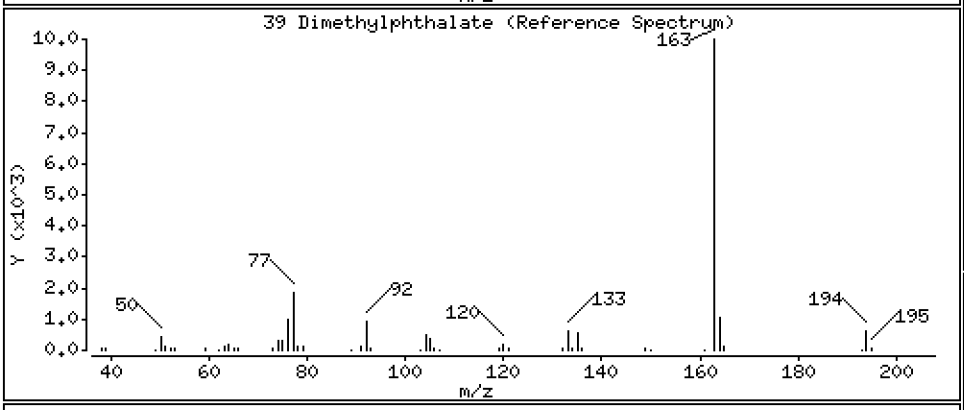
Column diameter: 0.25

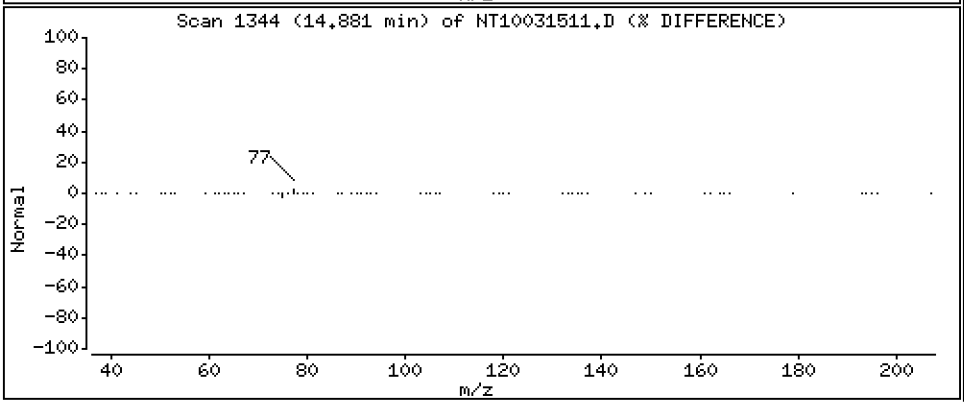
39 Dimethylphthalate

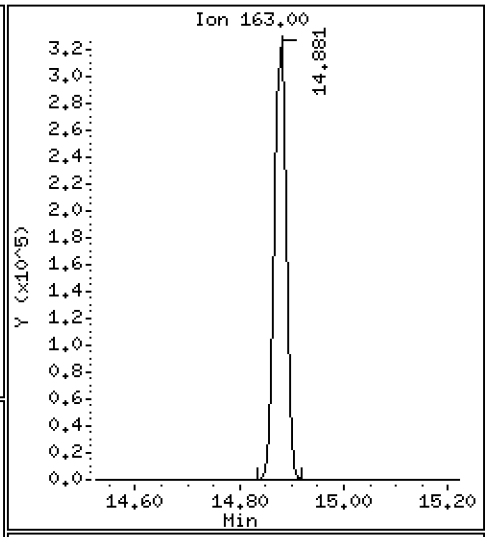
Concentration: 4.937 ug/mL

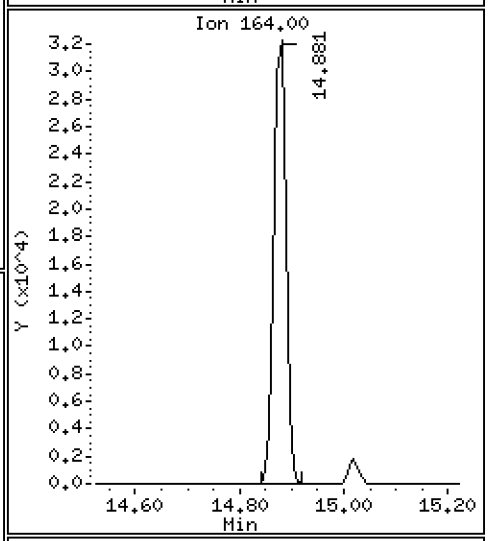


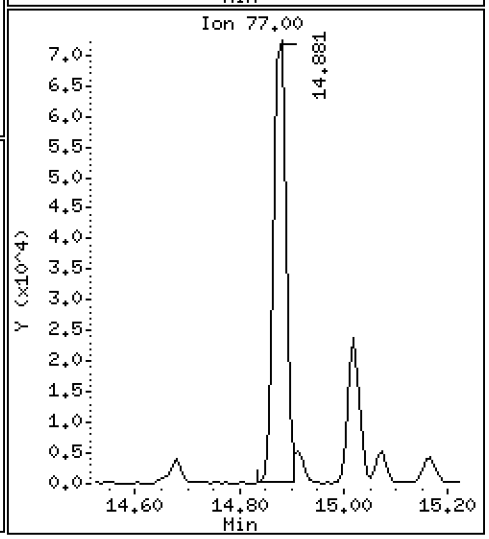












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

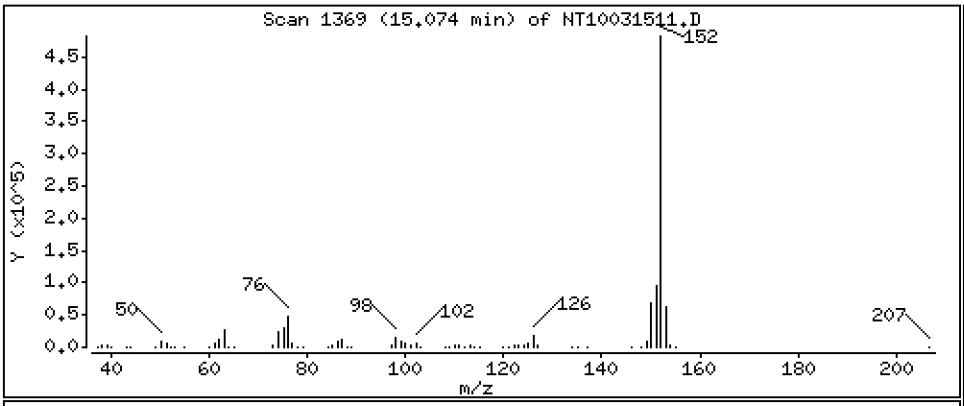
Operator: VTS

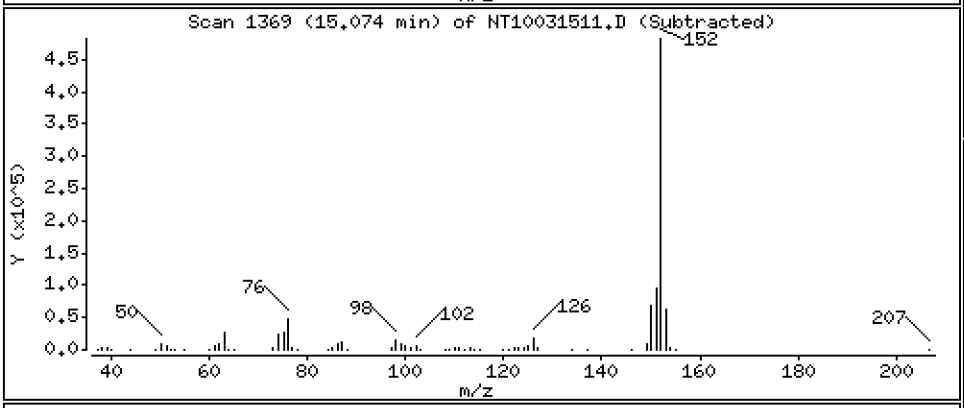
Column phase: ZB-5msi

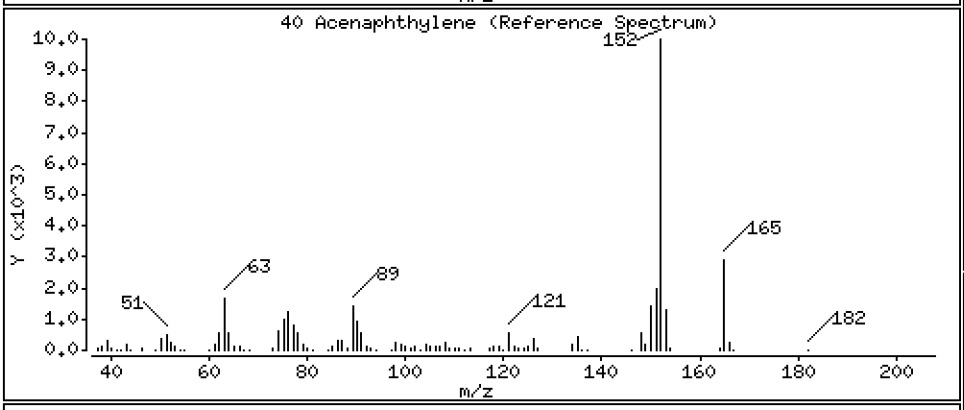
Column diameter: 0.25

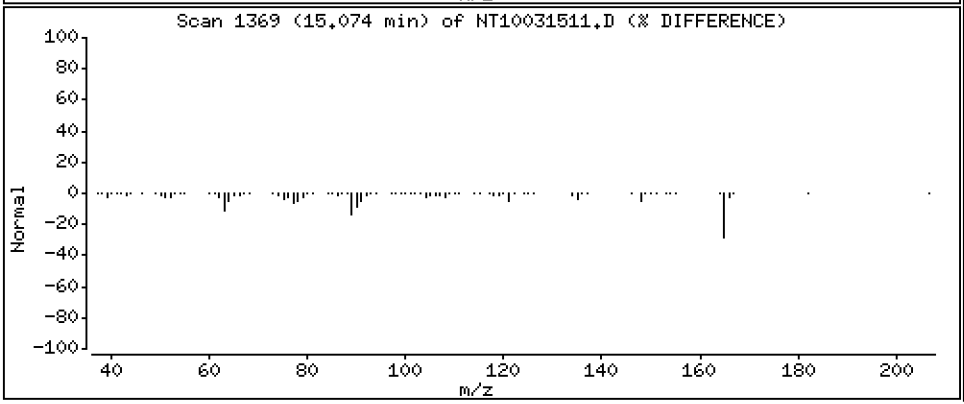
40 Acenaphthylene

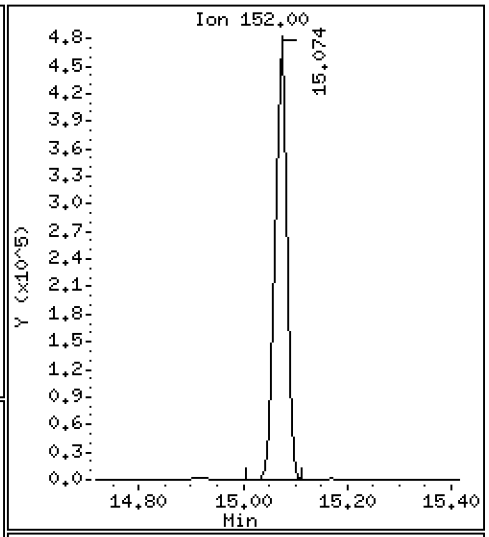
Concentration: 4.805 ug/mL

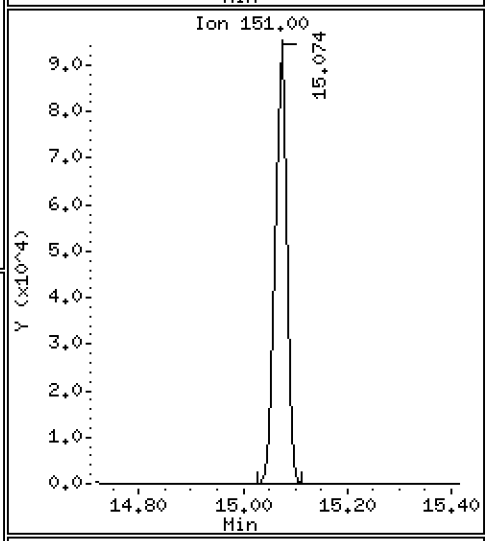


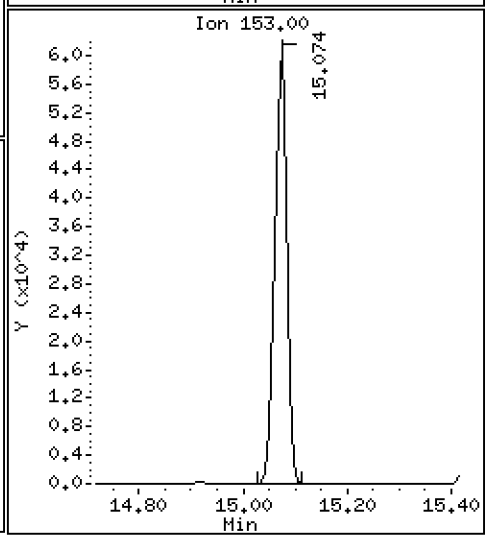












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

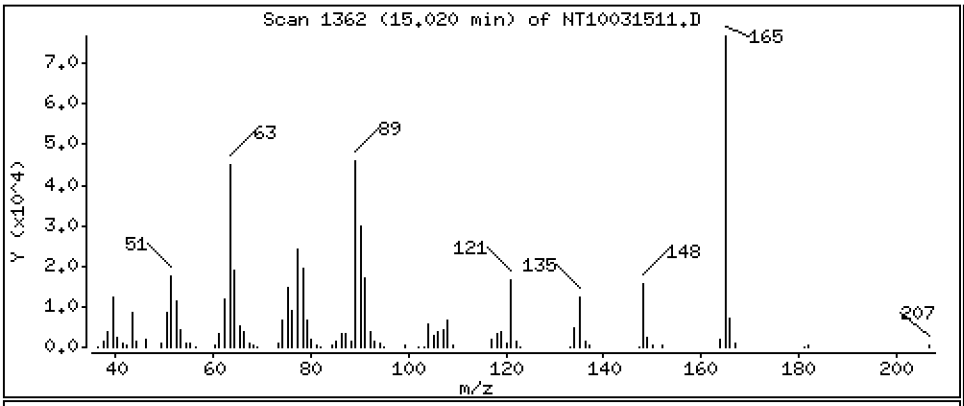
Operator: VTS

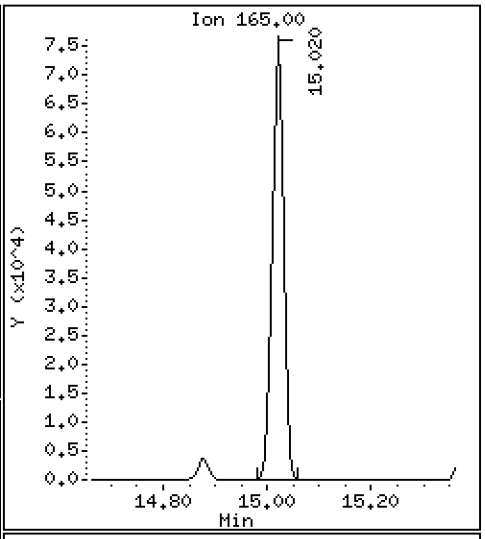
Column phase: ZB-5msi

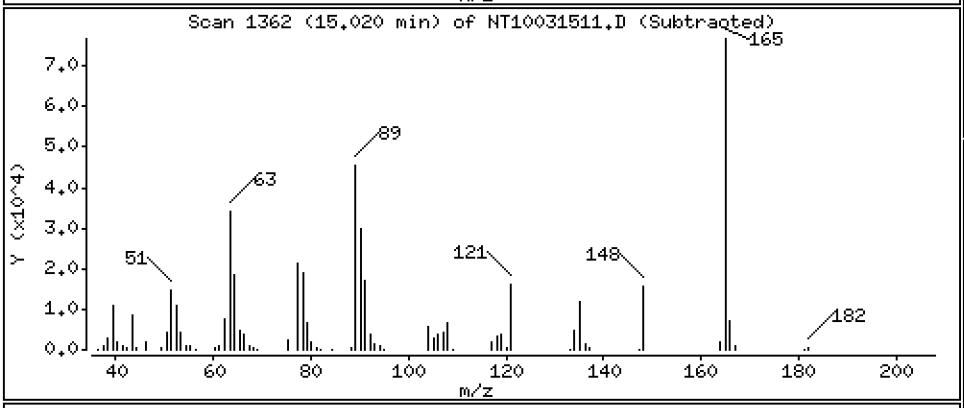
Column diameter: 0.25

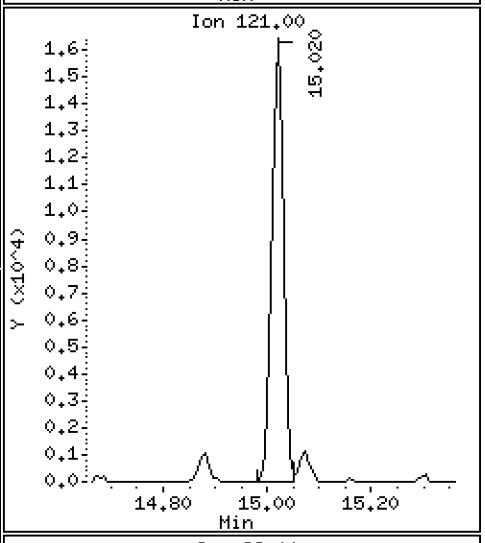
41 2,6-Dinitrotoluene

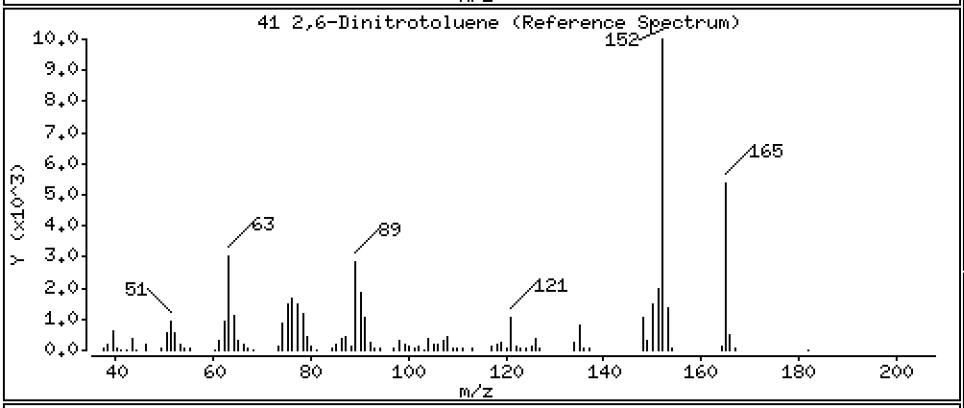
Concentration: 5.298 ug/mL

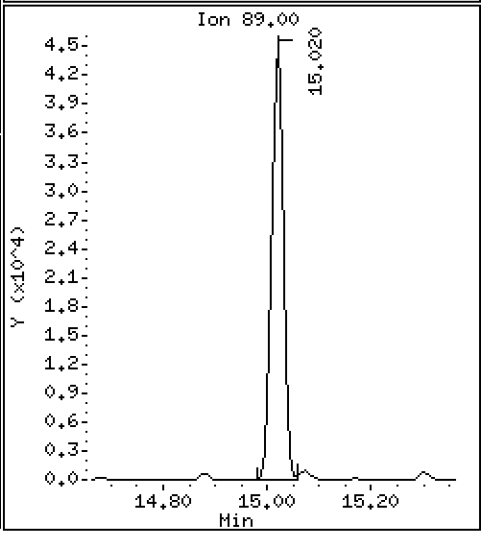


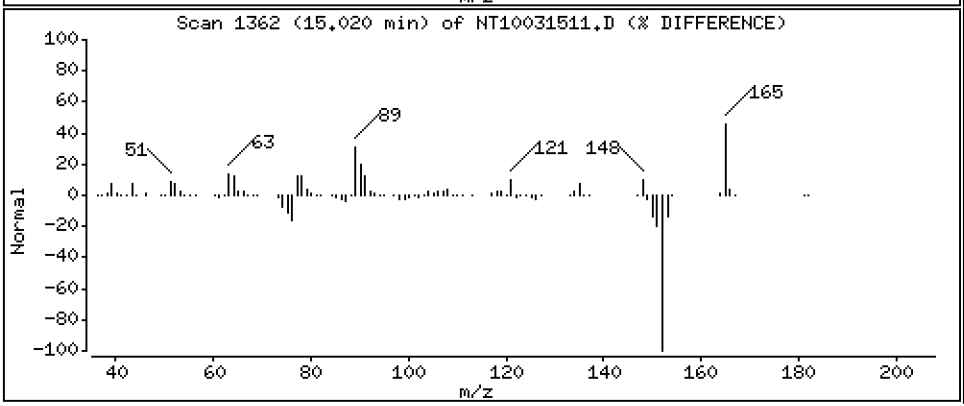












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

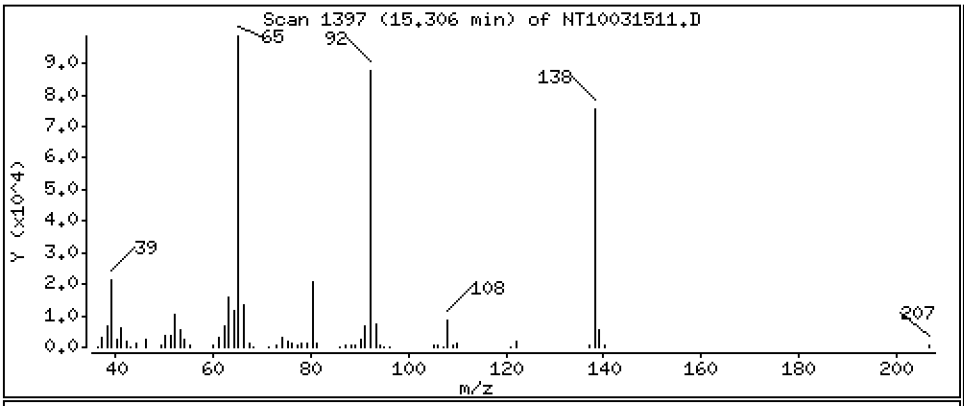
Operator: VTS

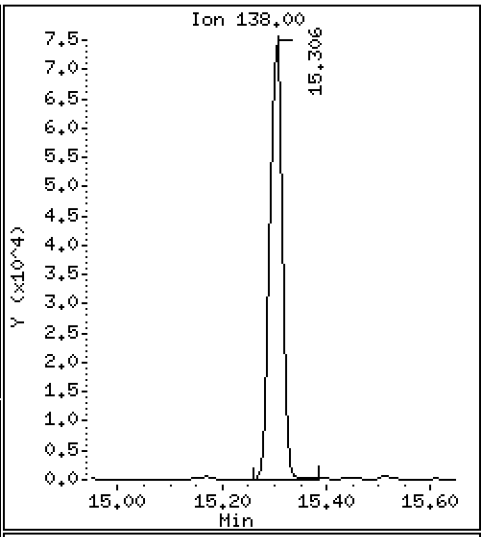
Column phase: ZB-5msi

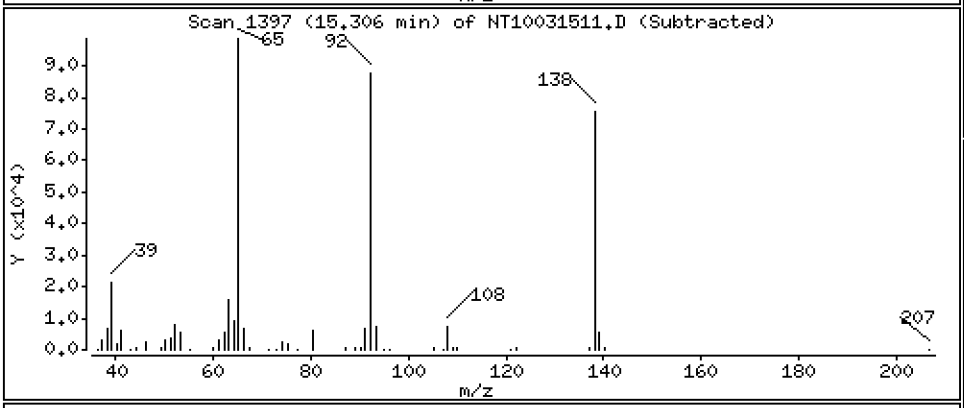
Column diameter: 0.25

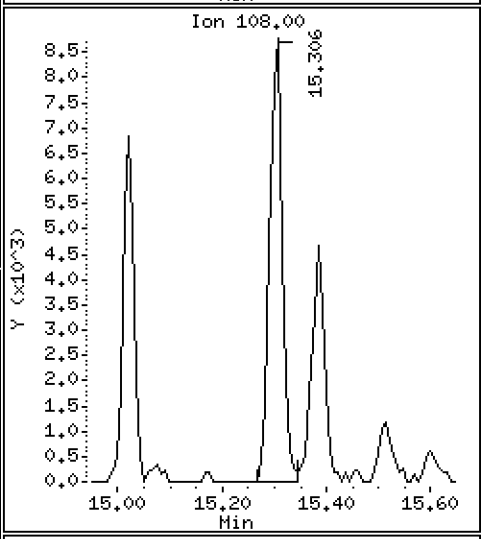
43 3-Nitroaniline

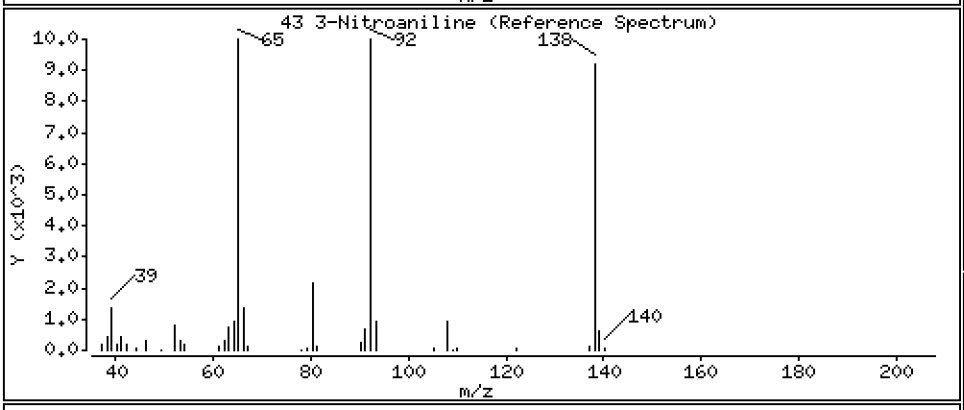
Concentration: 5.014 ug/mL

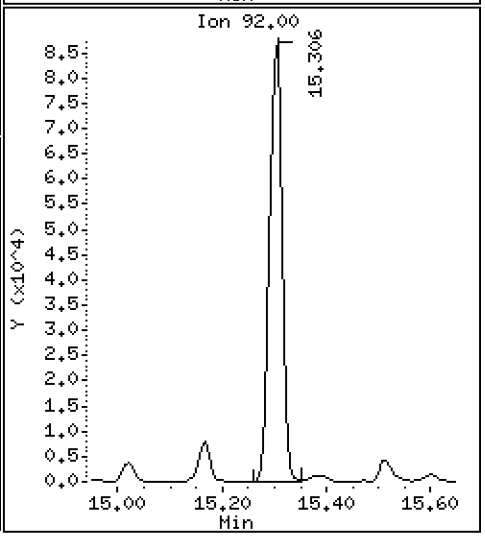


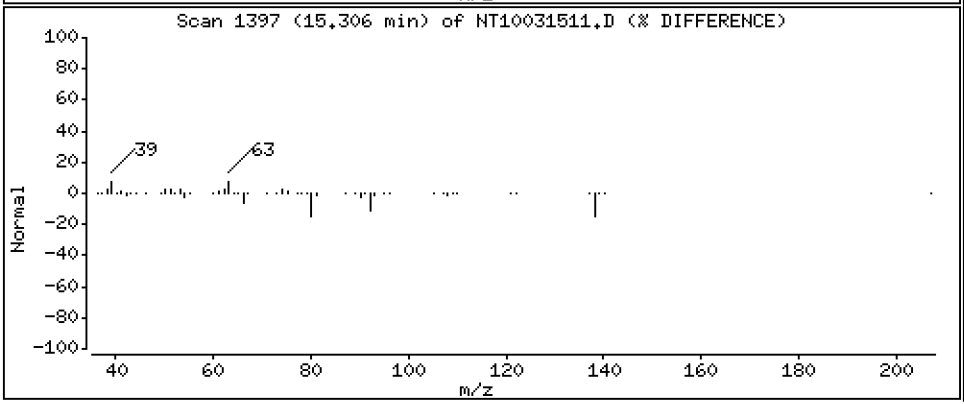












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

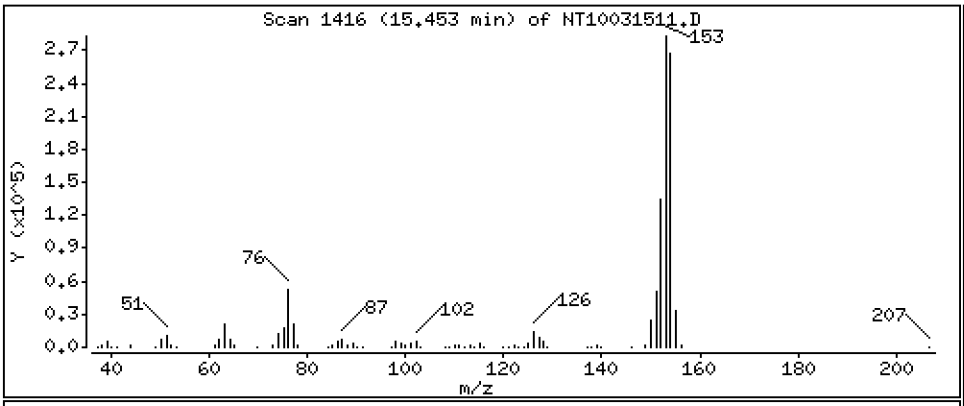
Operator: VTS

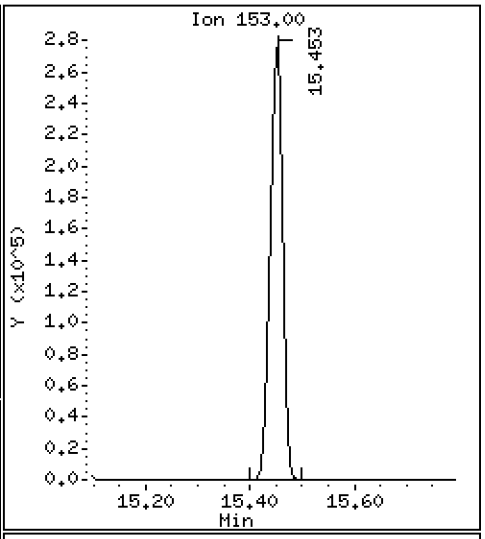
Column phase: ZB-5msi

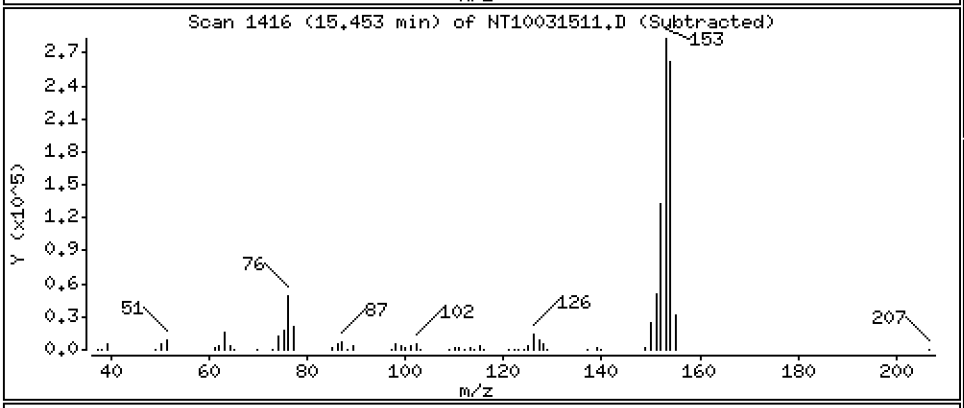
Column diameter: 0.25

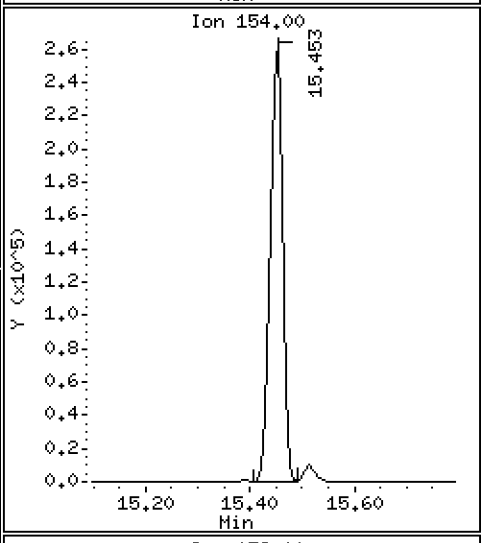
44 Acenaphthene

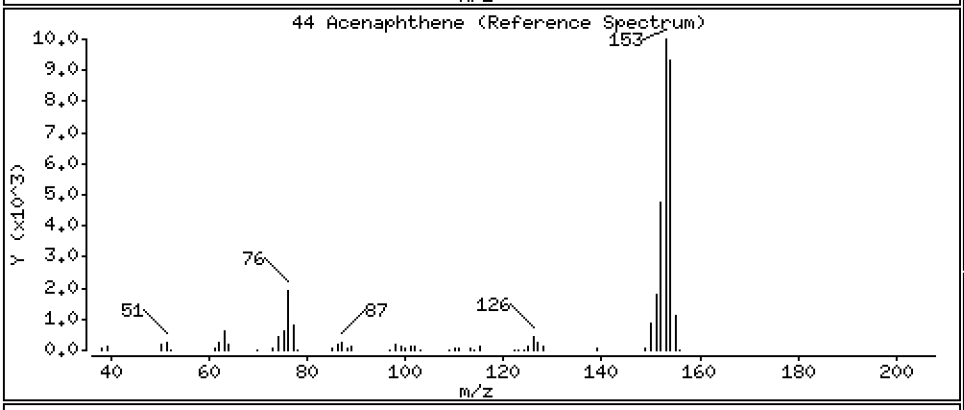
Concentration: 4.776 ug/mL

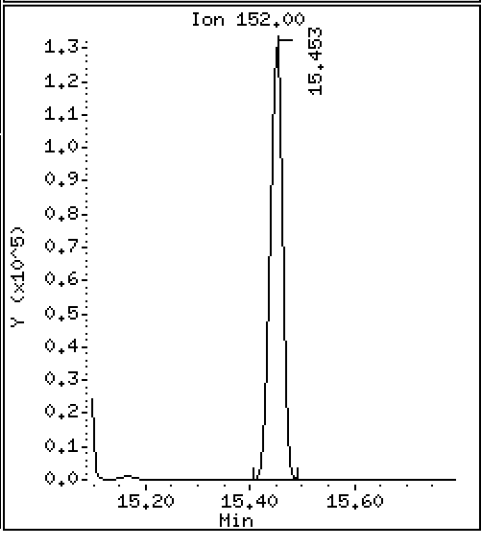


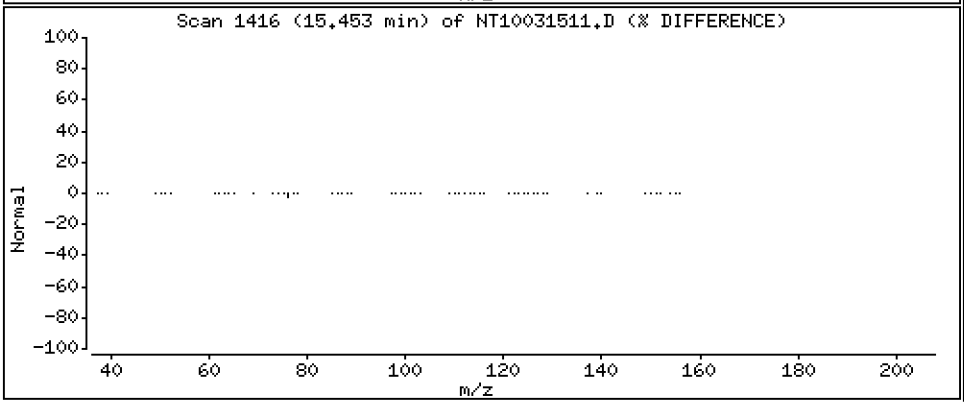












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

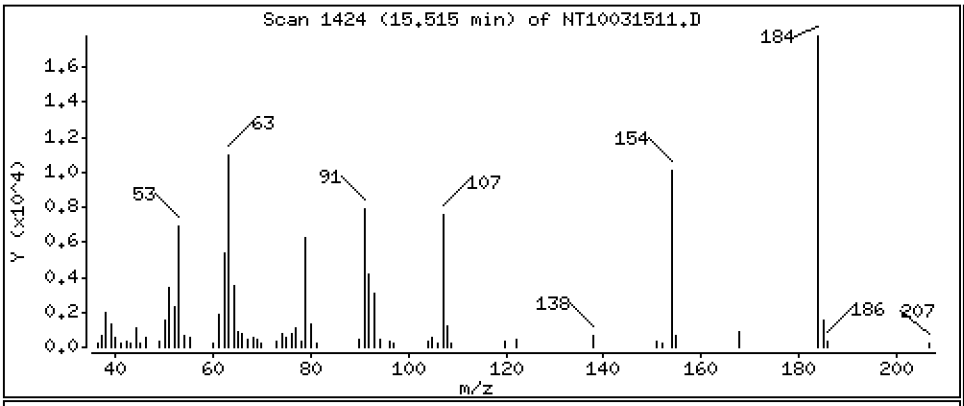
Operator: VTS

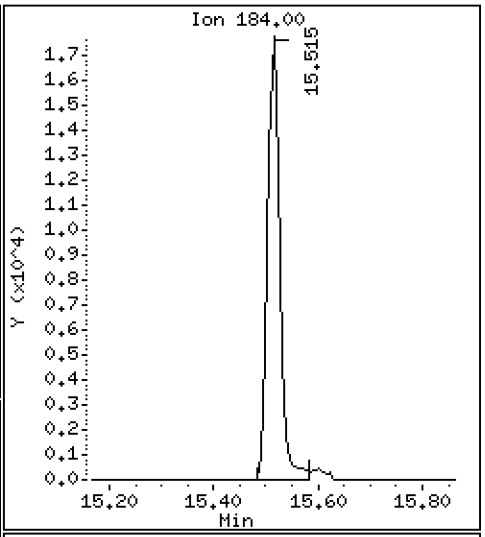
Column phase: ZB-5msi

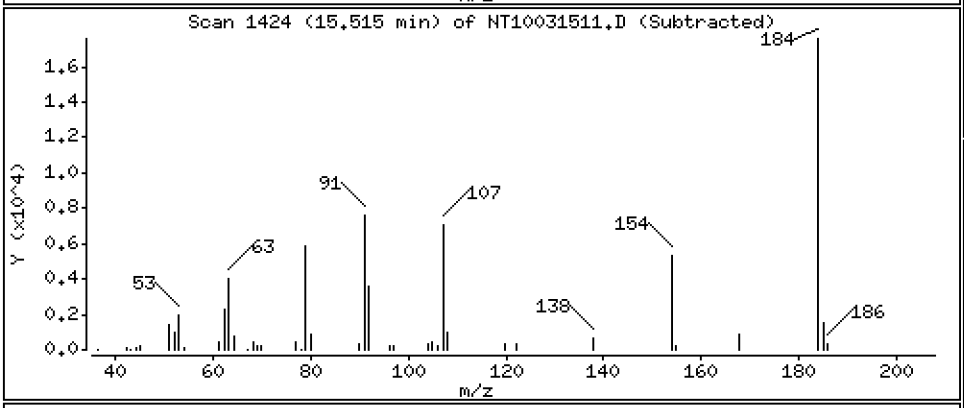
Column diameter: 0.25

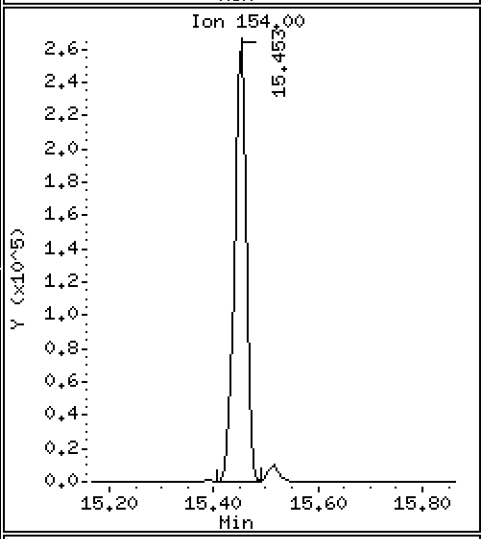
45 2,4-Dinitrophenol

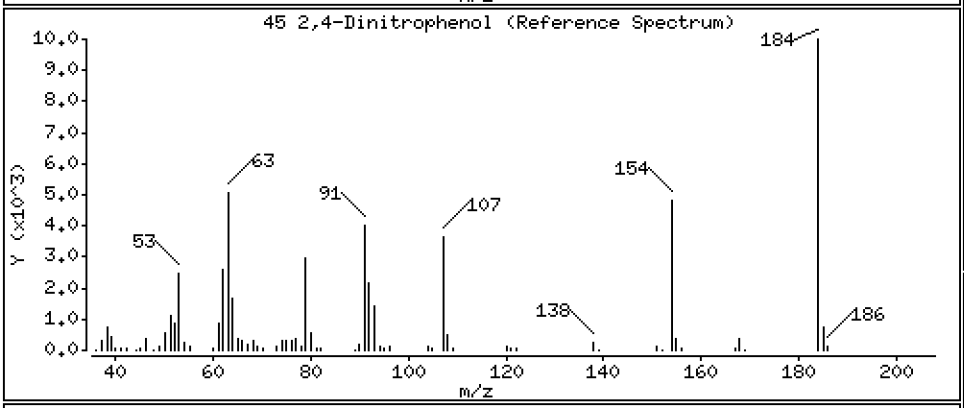
Concentration: 2.124 ug/mL

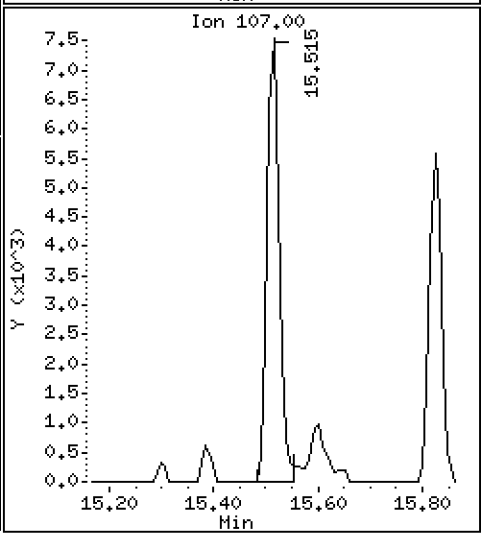


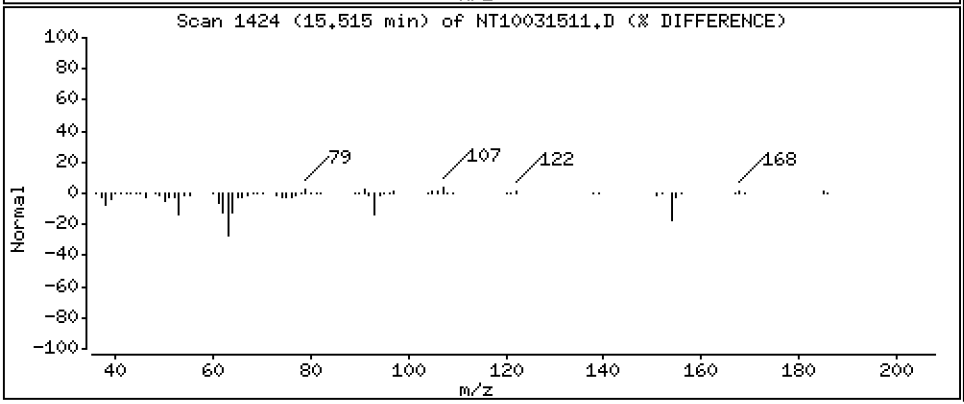












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

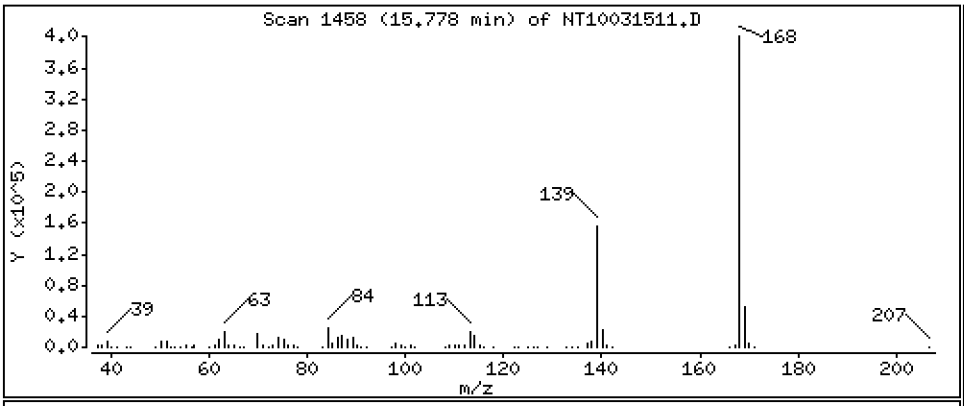
Operator: VTS

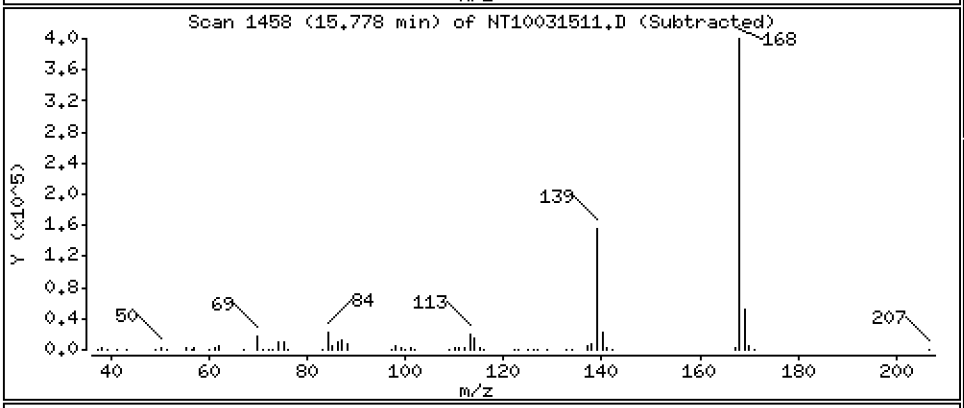
Column phase: ZB-5msi

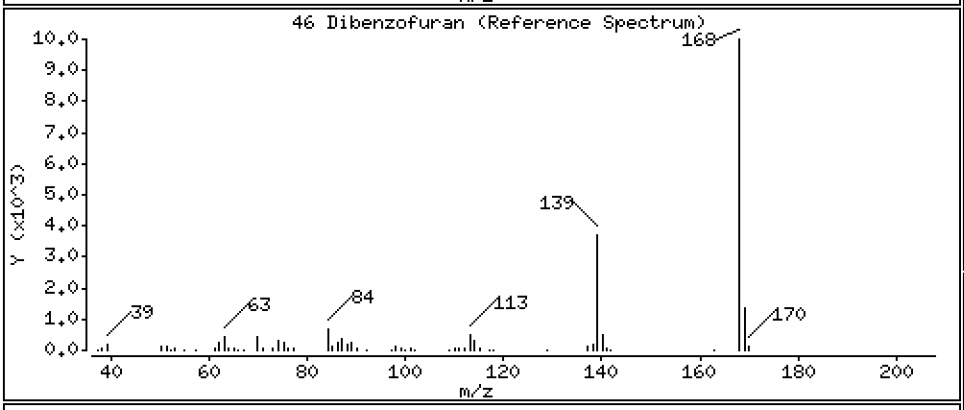
Column diameter: 0.25

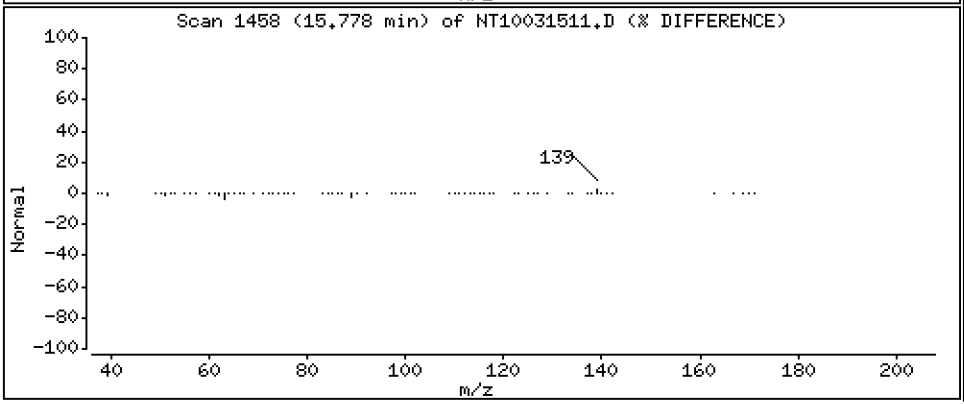
46 Dibenzofuran

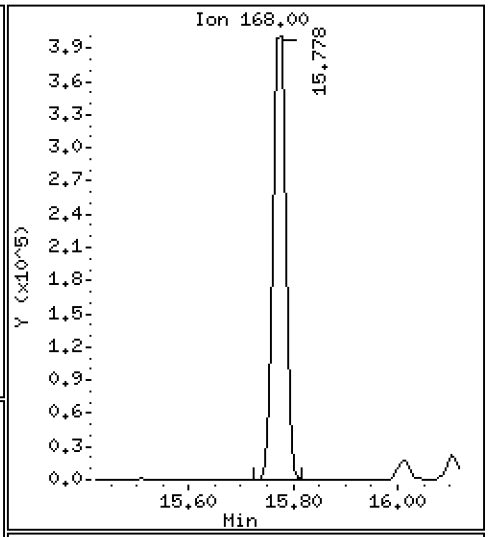
Concentration: 4.648 ug/mL

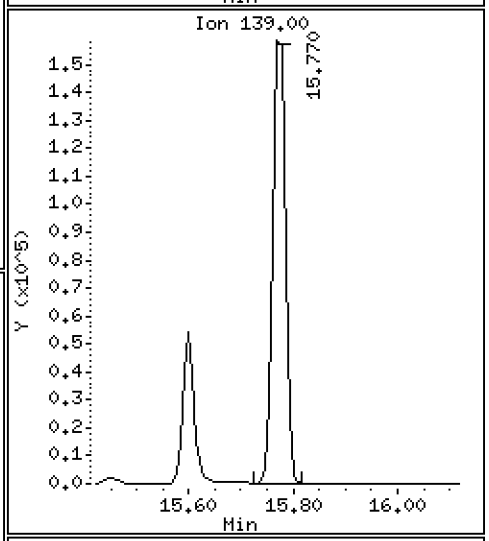


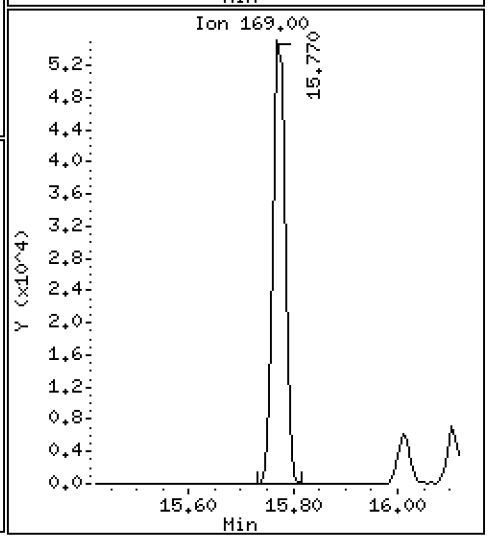












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

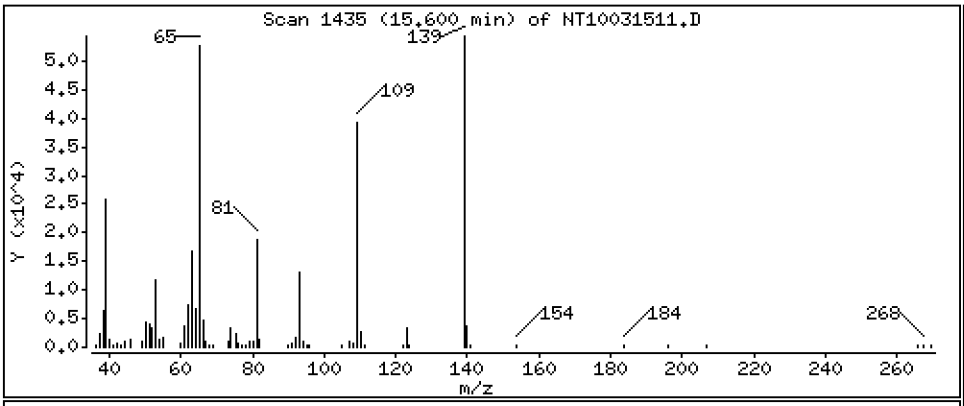
Operator: VTS

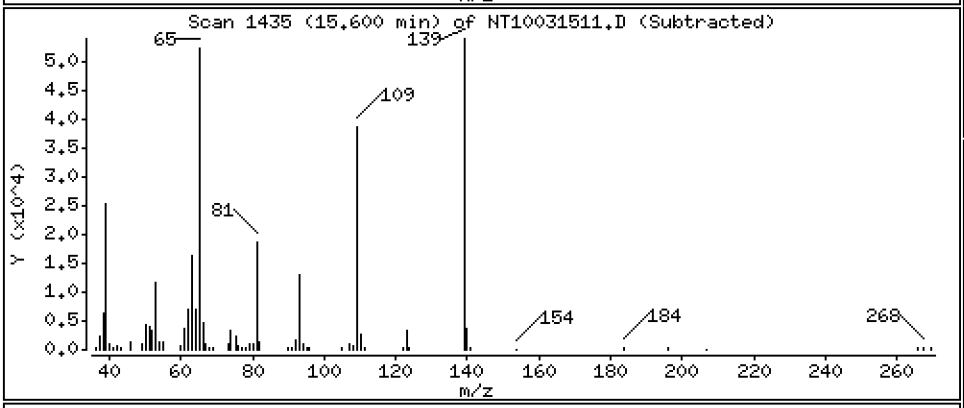
Column phase: ZB-5msi

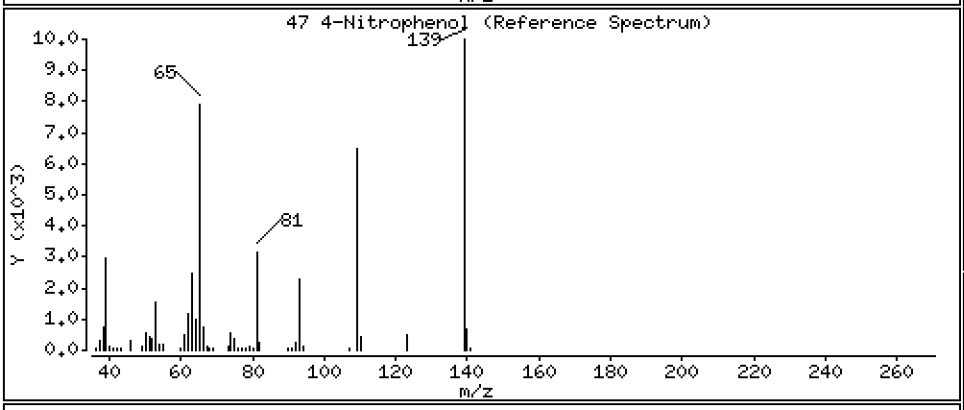
Column diameter: 0.25

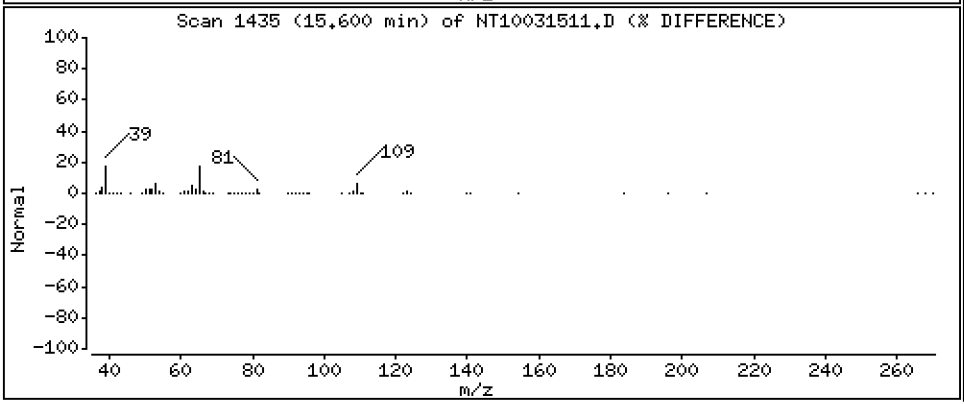
47 4-Nitrophenol

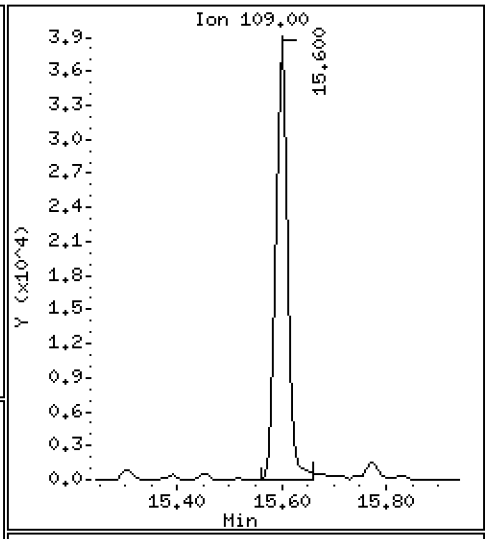
Concentration: 3.966 ug/mL

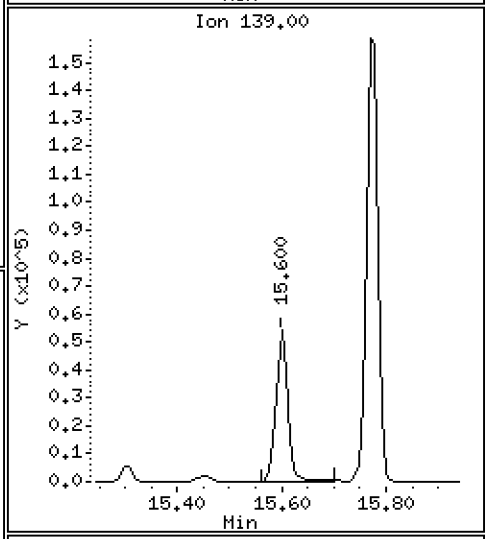


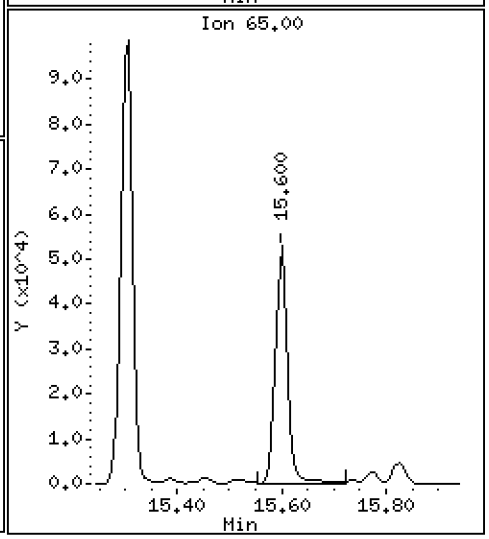












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

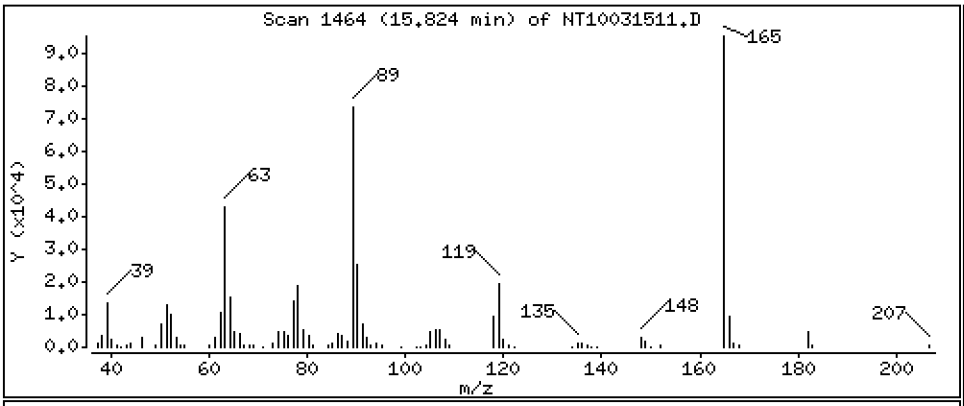
Operator: VTS

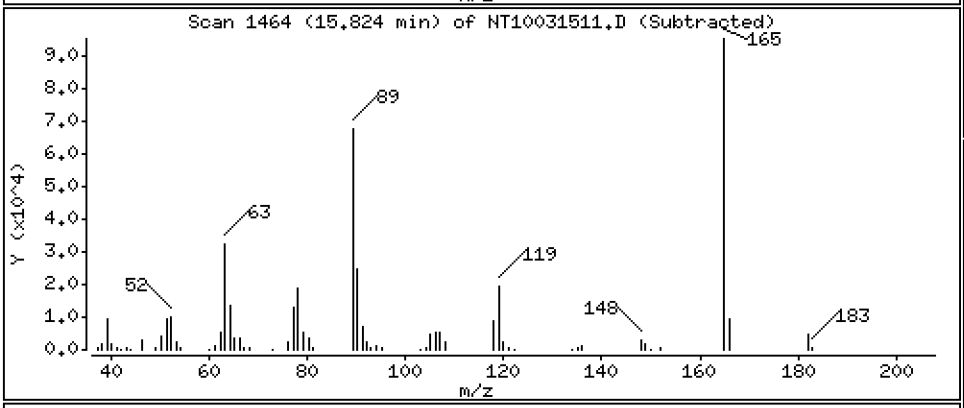
Column phase: ZB-5msi

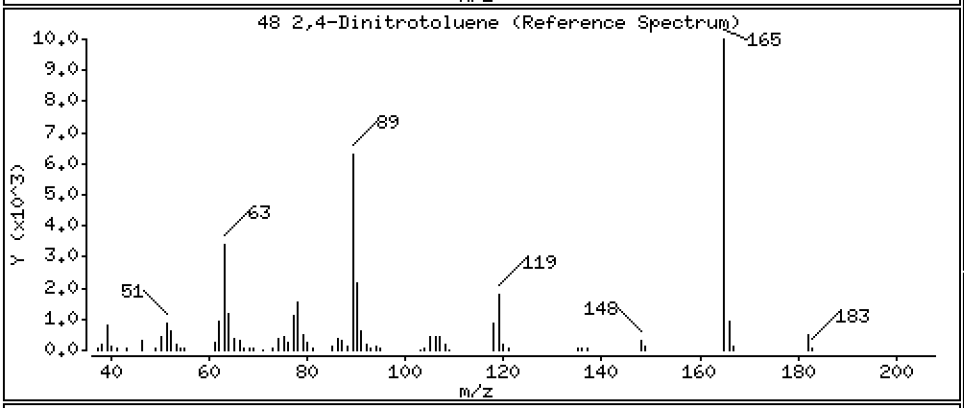
Column diameter: 0.25

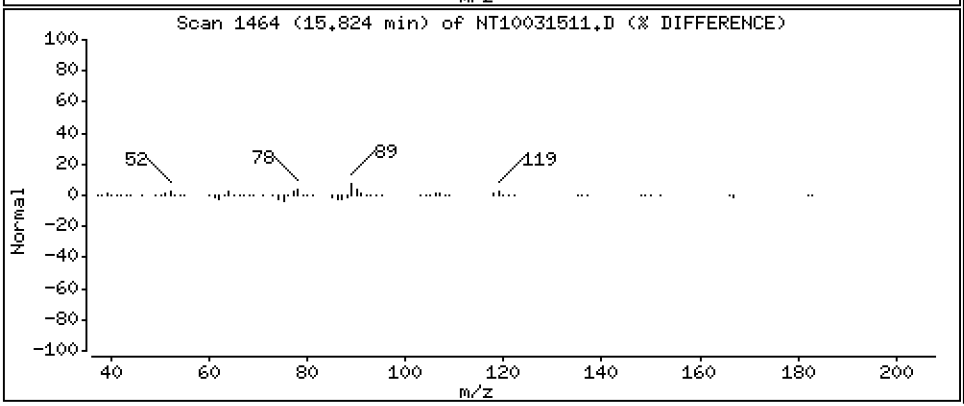
48 2,4-Dinitrotoluene

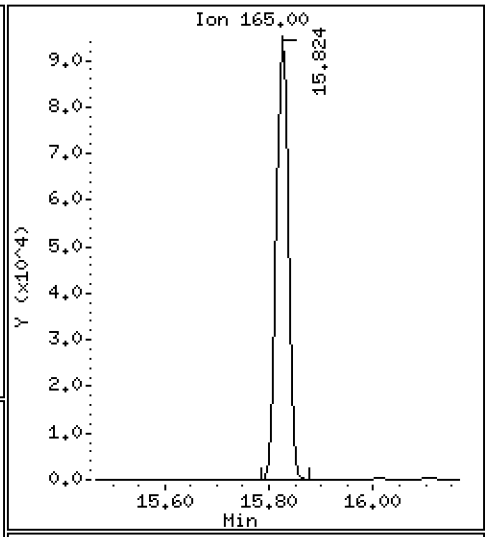
Concentration: 4.510 ug/mL

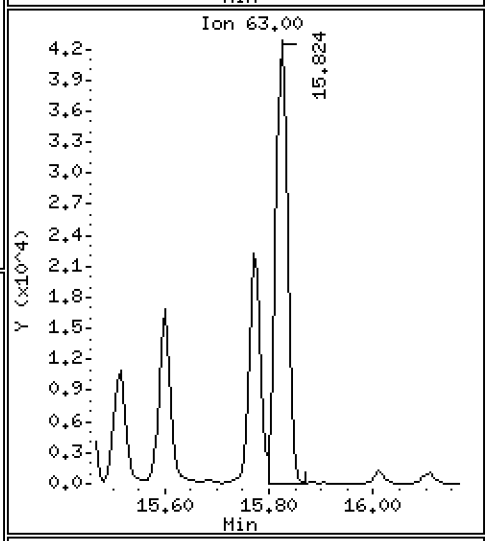


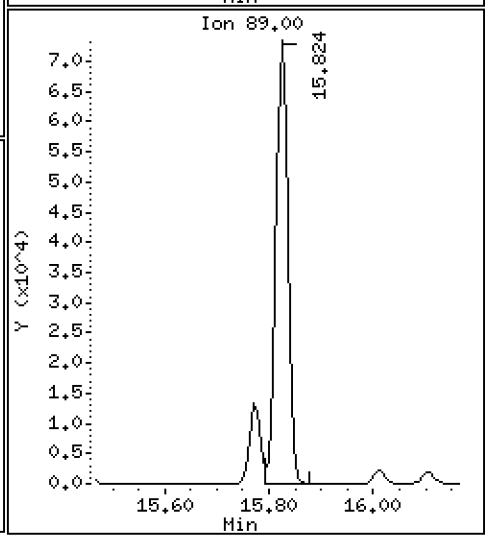












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

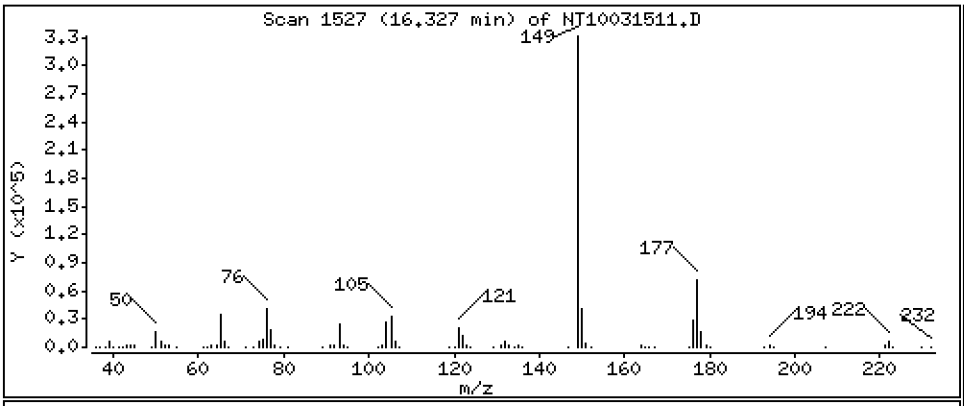
Operator: VTS

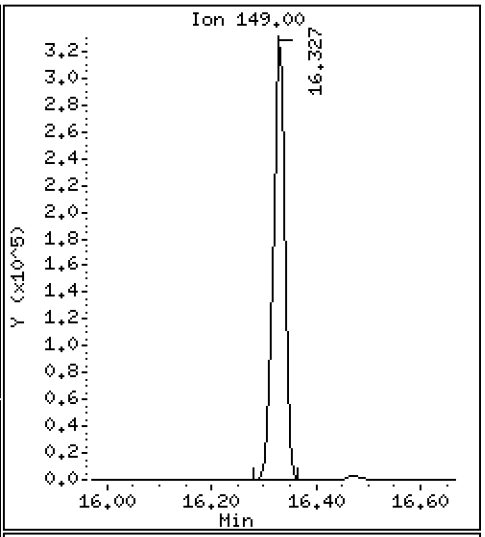
Column phase: ZB-5msi

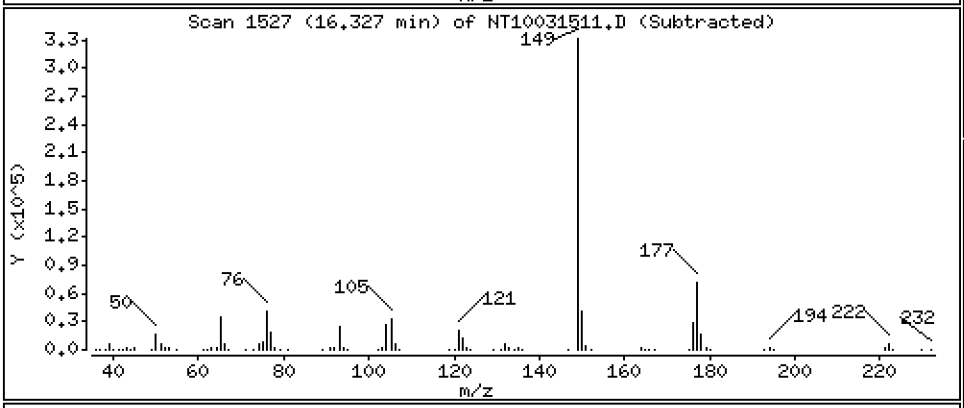
Column diameter: 0.25

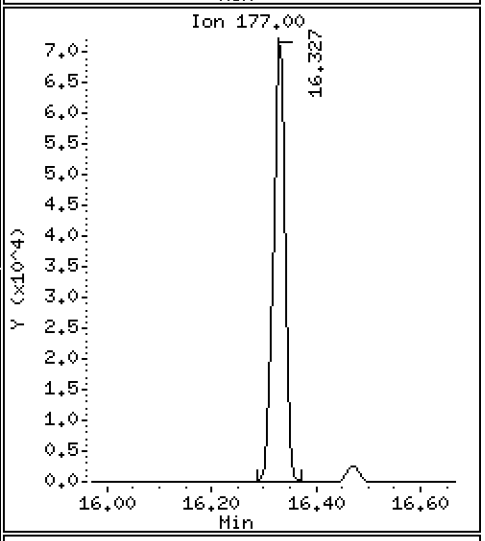
50 Diethylphthalate

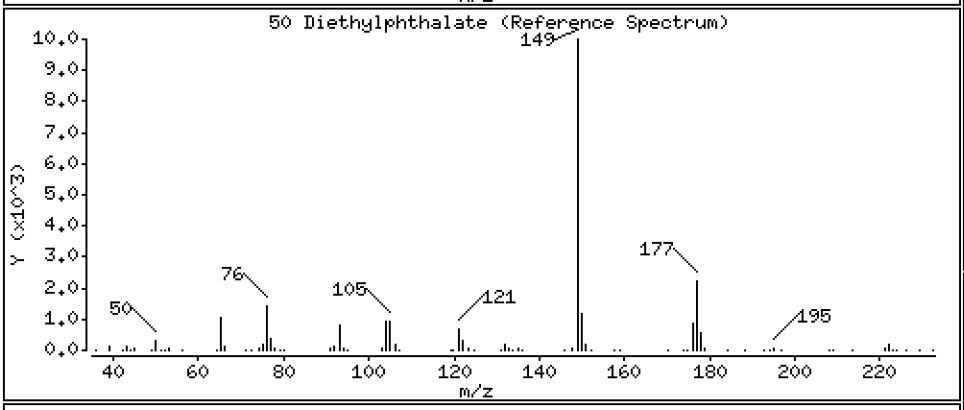
Concentration: 5.209 ug/mL

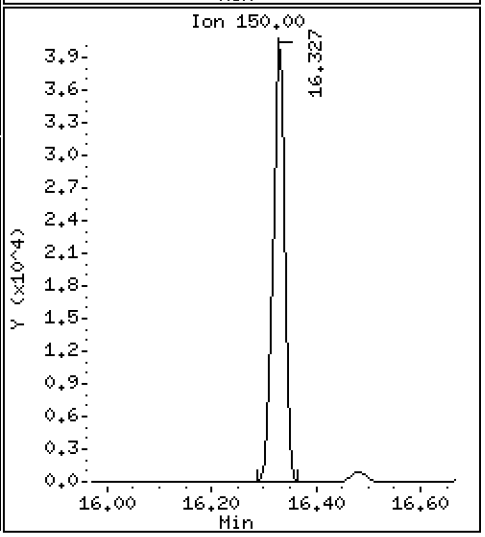


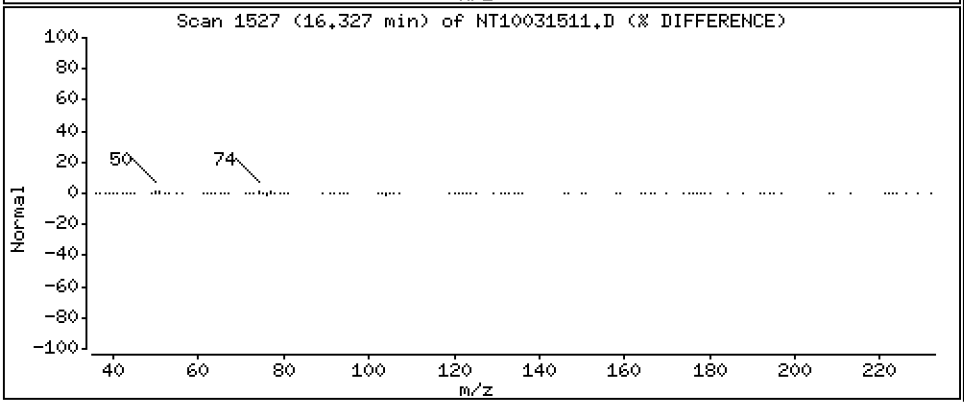












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

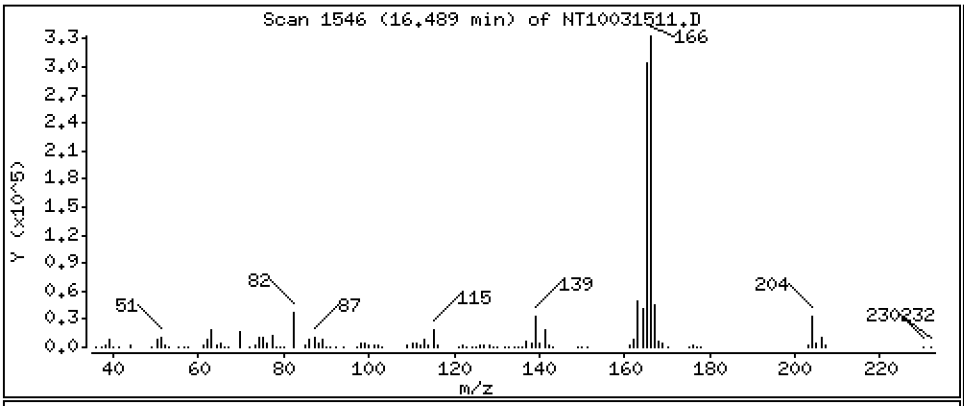
Operator: VTS

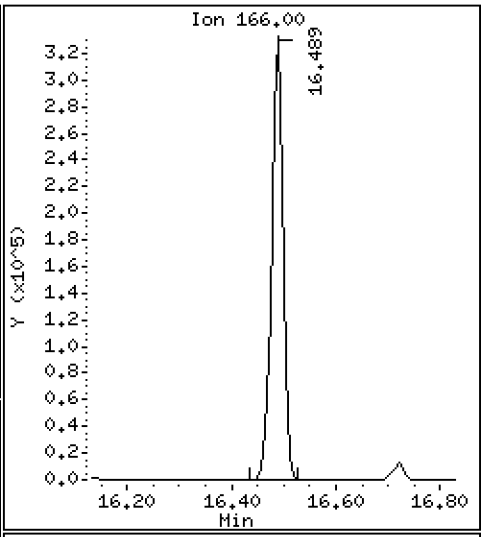
Column phase: ZB-5msi

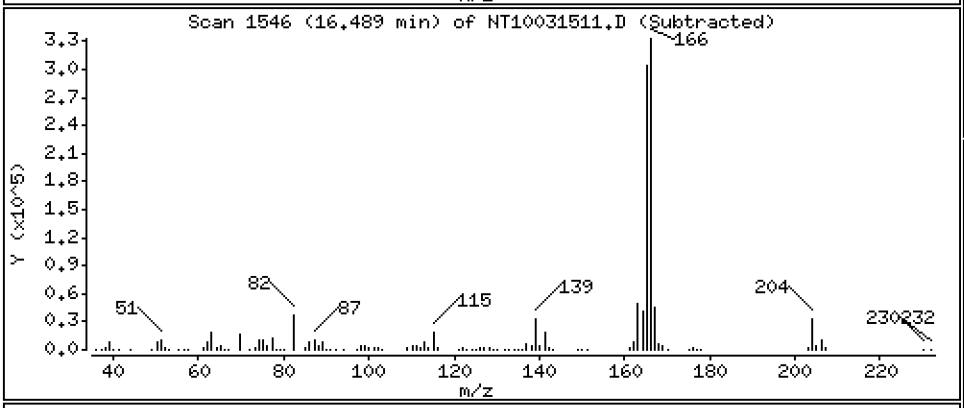
Column diameter: 0.25

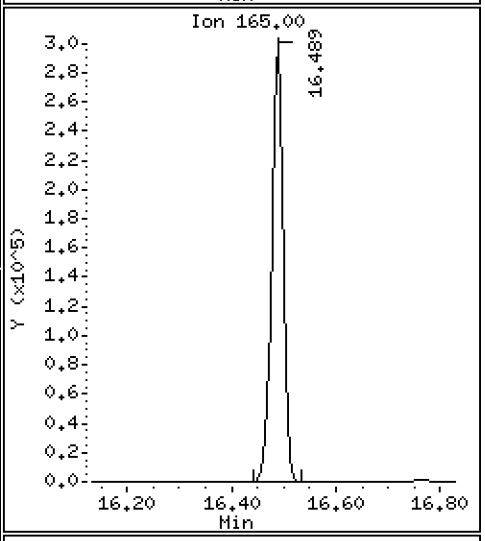
49 Fluorene

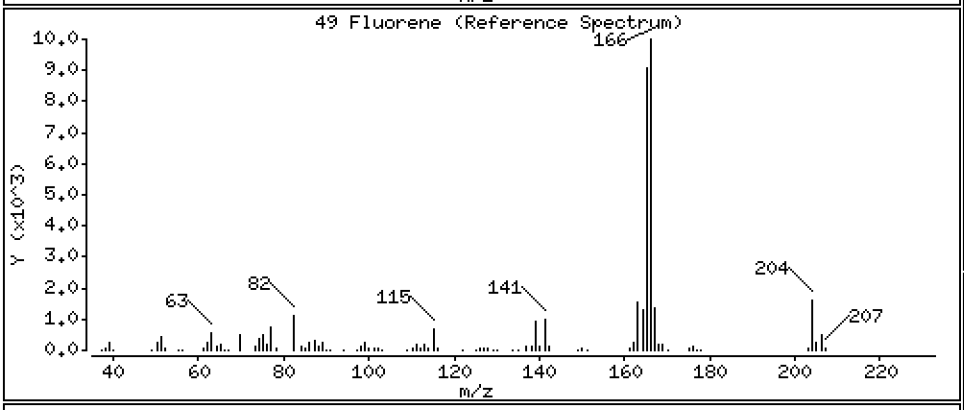
Concentration: 4.708 ug/mL

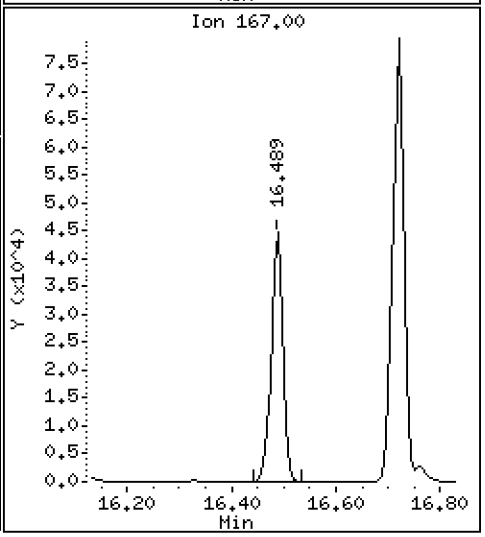


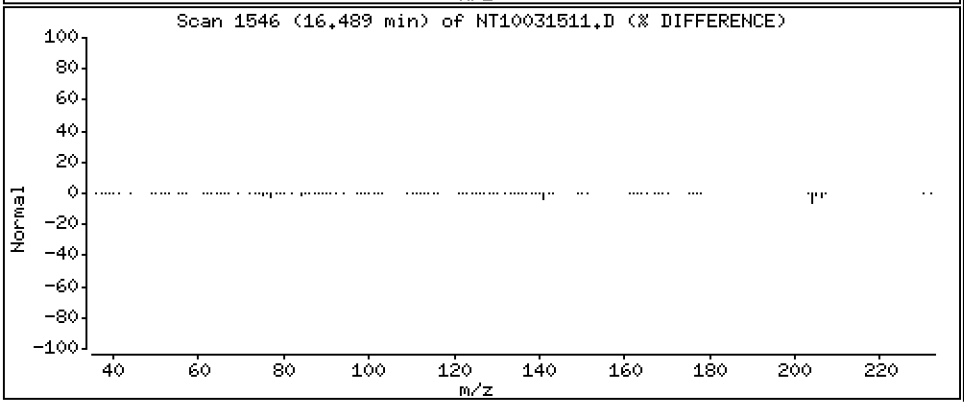












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

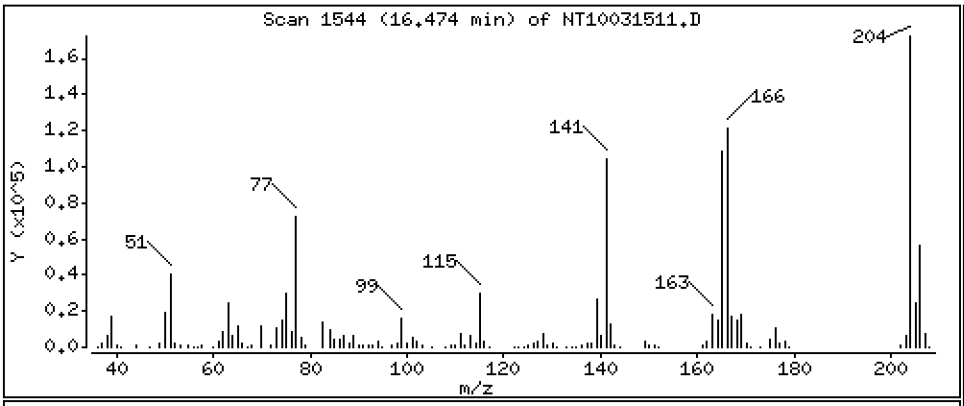
Operator: VTS

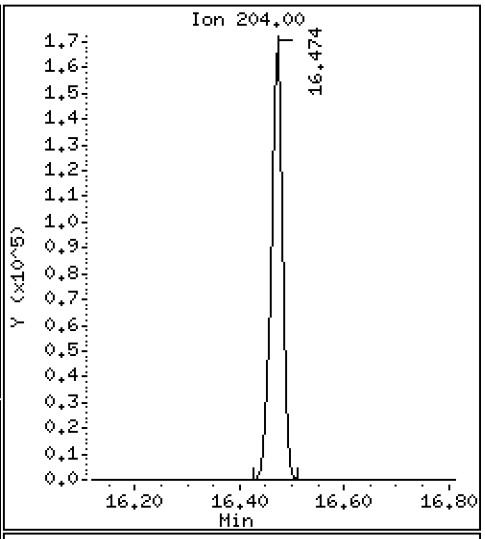
Column phase: ZB-5msi

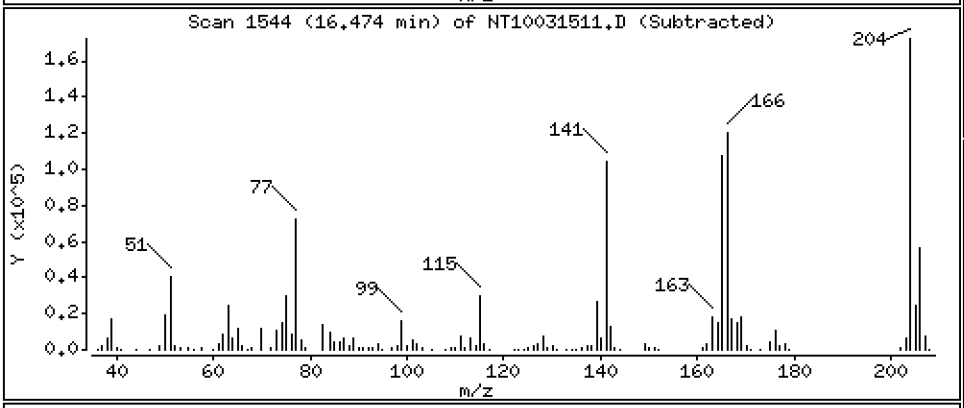
Column diameter: 0.25

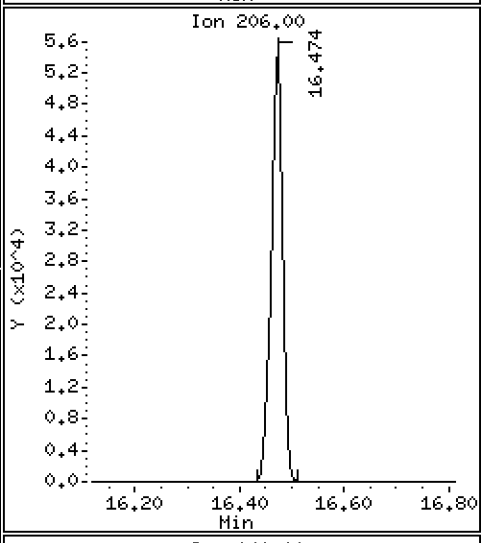
51 4-Chlorophenyl-phenylether

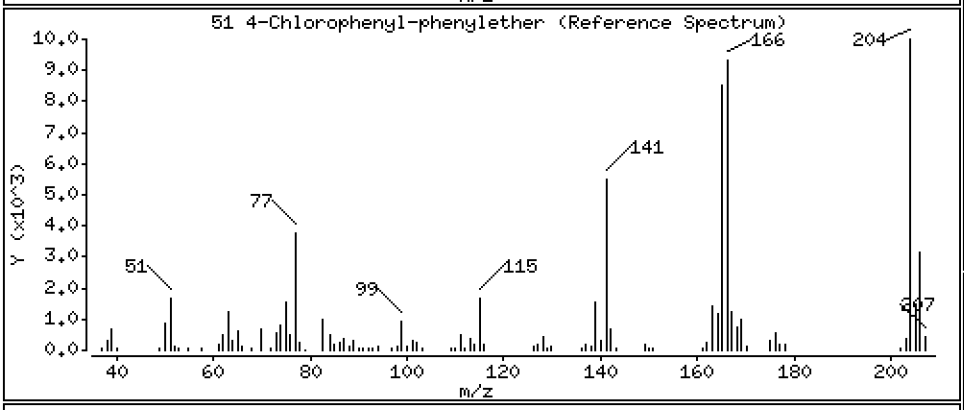
Concentration: 4.993 ug/mL

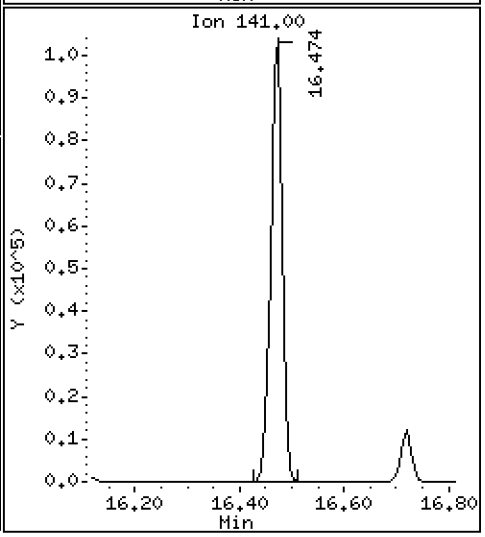


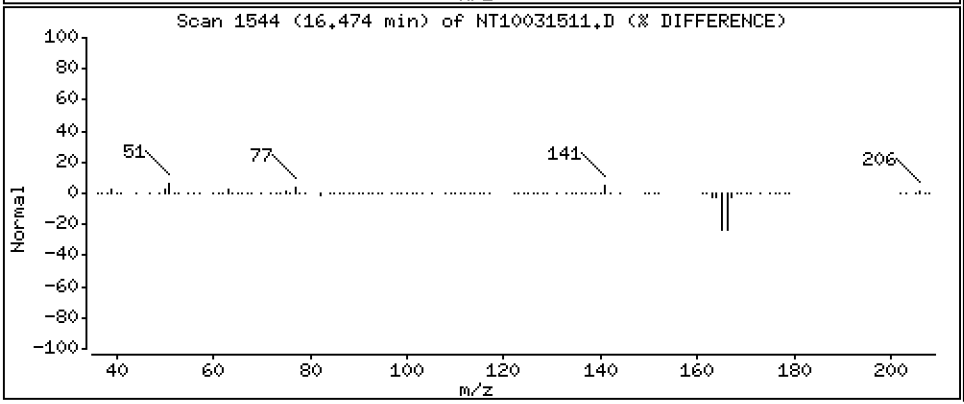












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

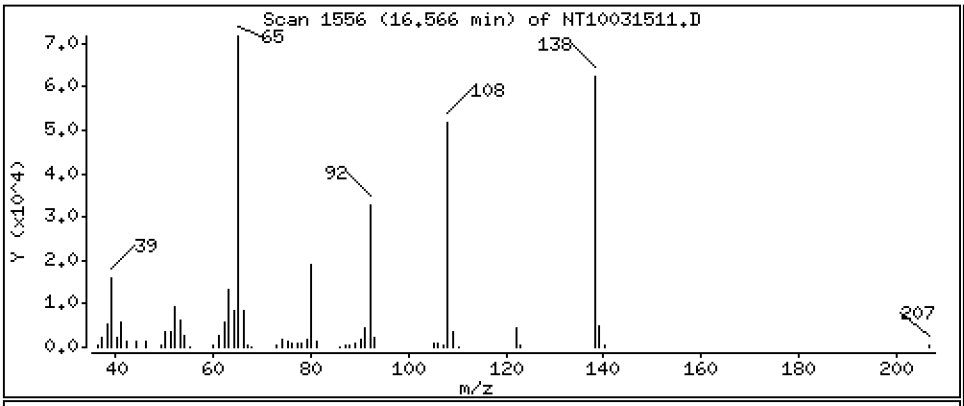
Operator: VTS

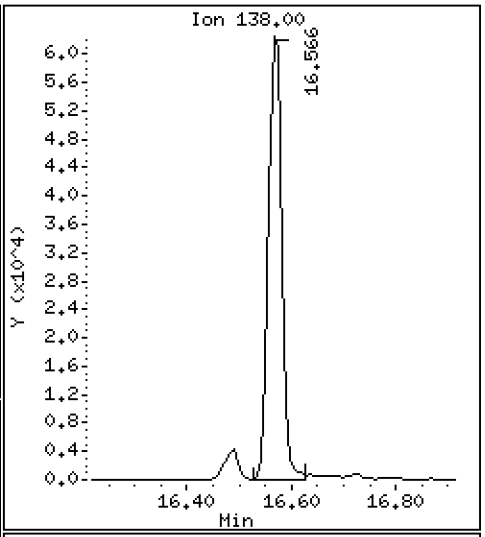
Column phase: ZB-5msi

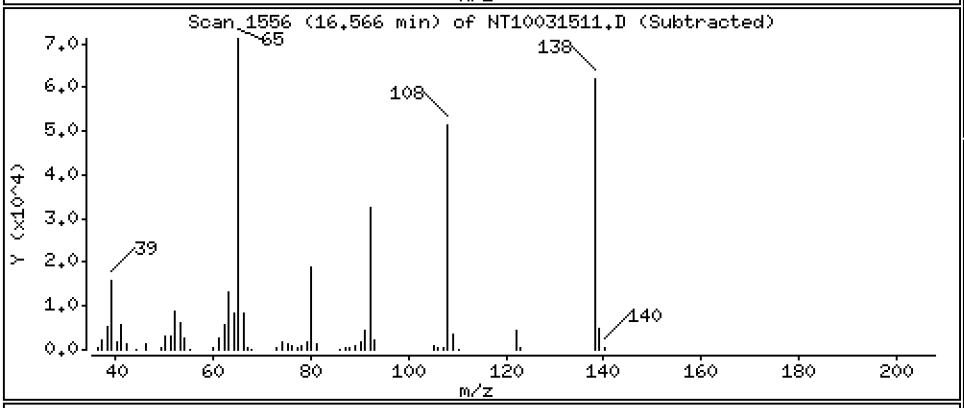
Column diameter: 0.25

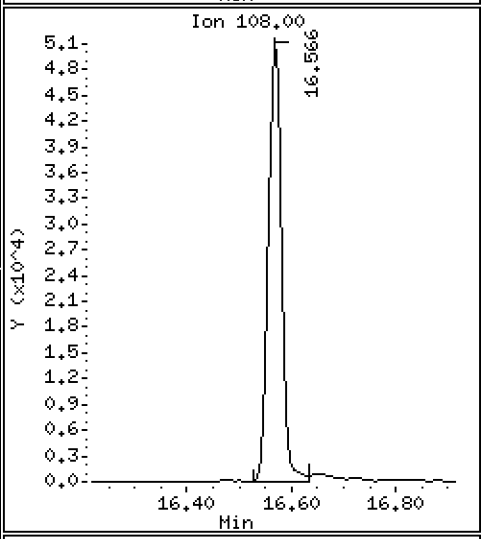
52 4-Nitroaniline

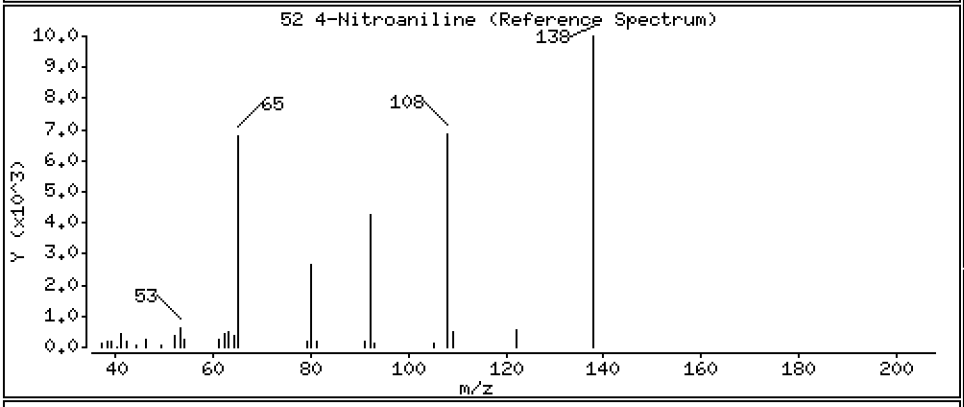
Concentration: 4.925 ug/mL

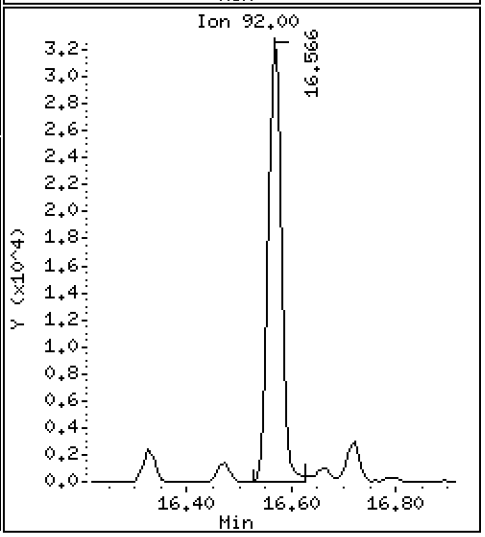


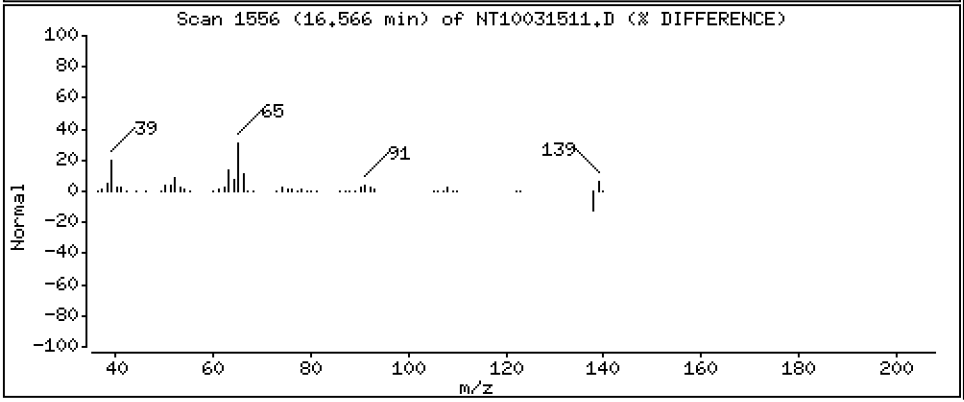












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

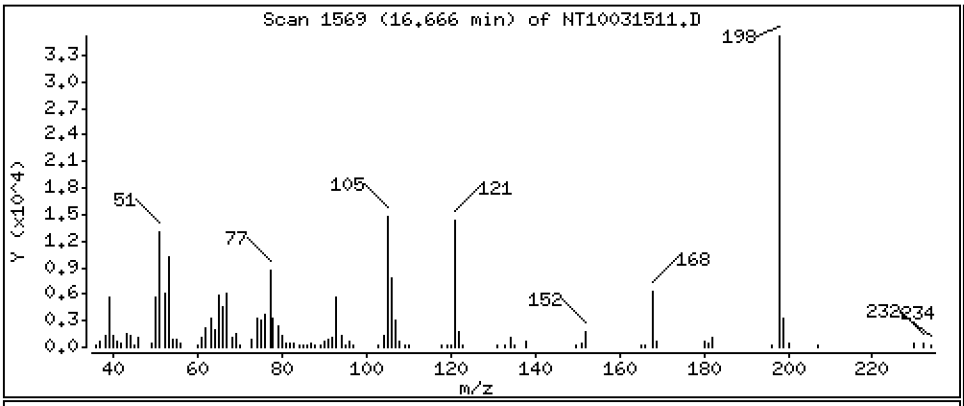
Operator: VTS

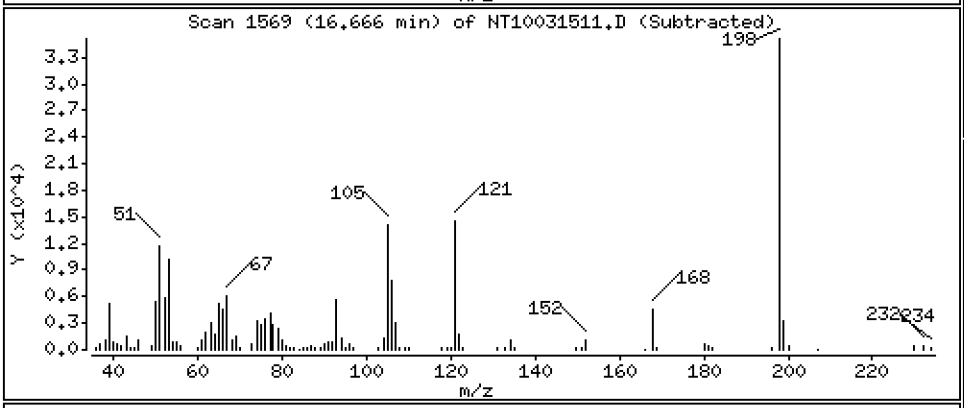
Column phase: ZB-5msi

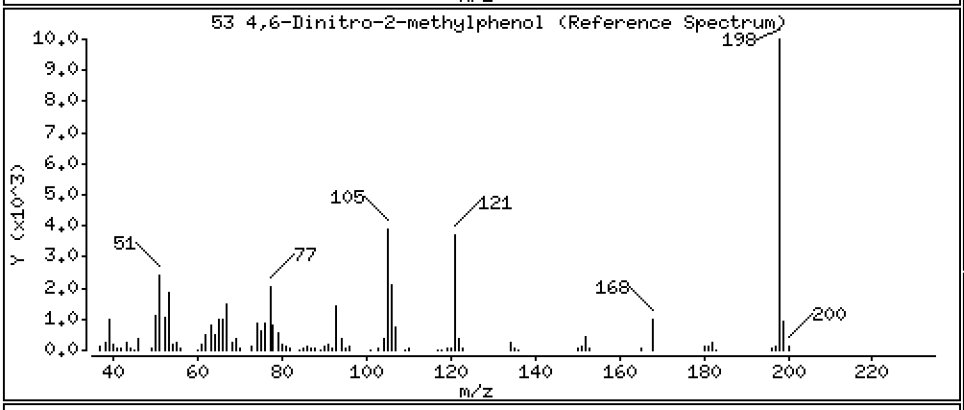
Column diameter: 0.25

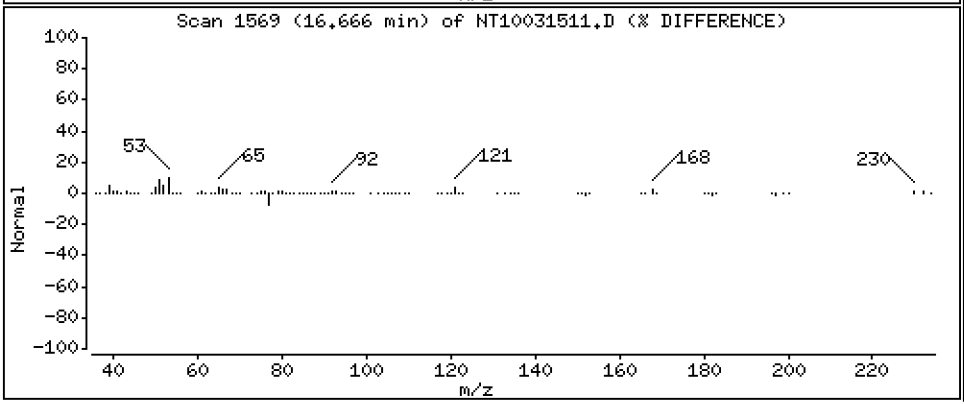
53 4,6-Dinitro-2-methylphenol

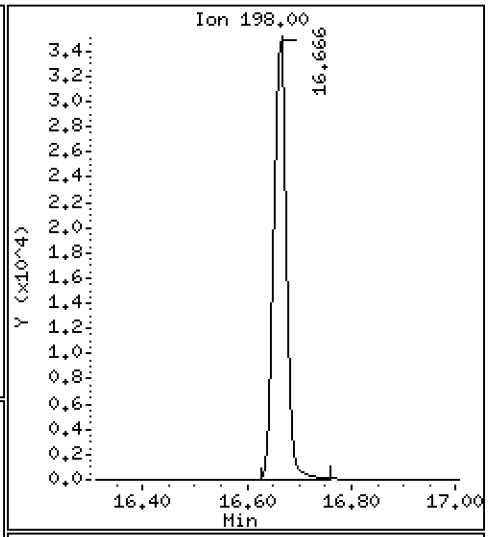
Concentration: 3.515 ug/mL

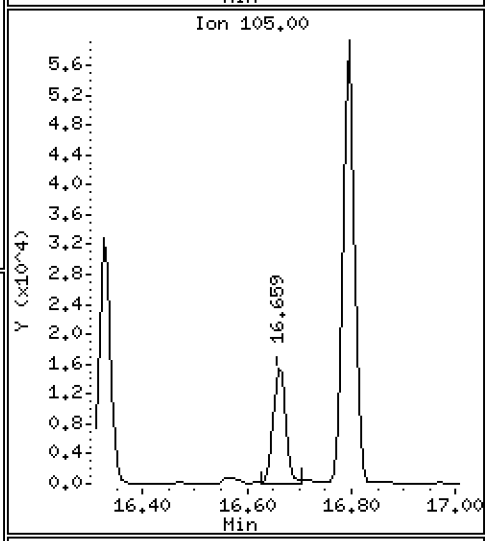


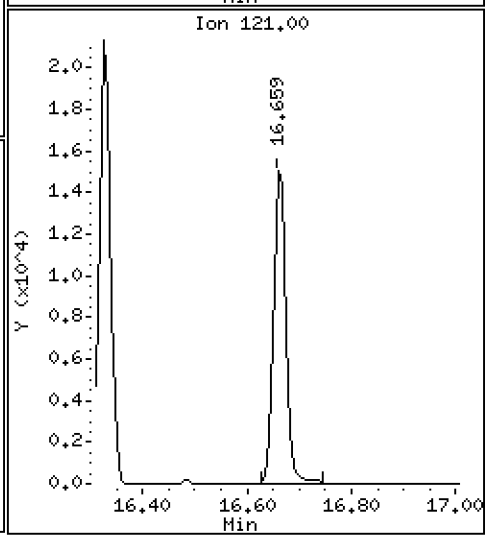












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

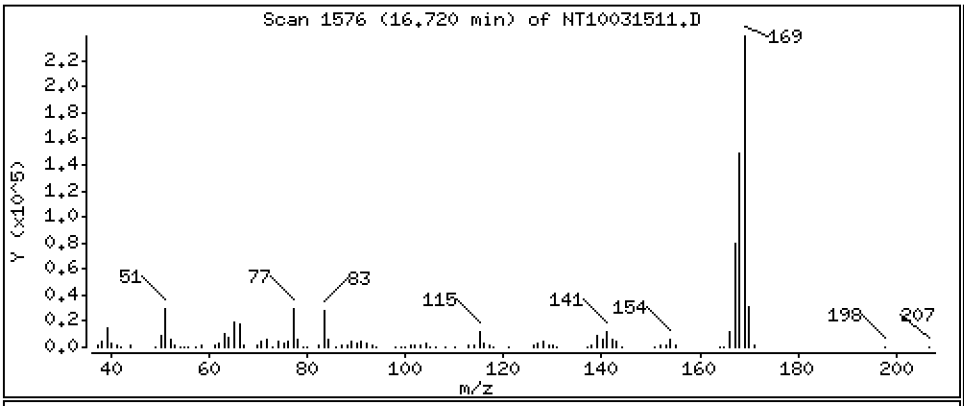
Operator: VTS

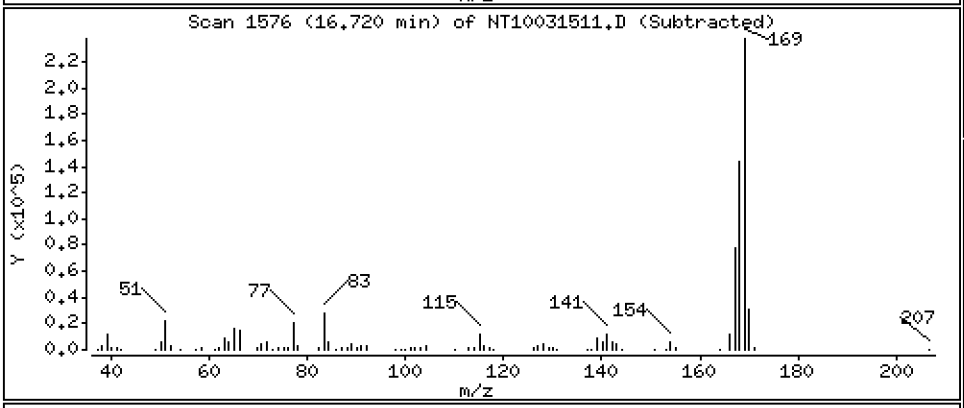
Column phase: ZB-5msi

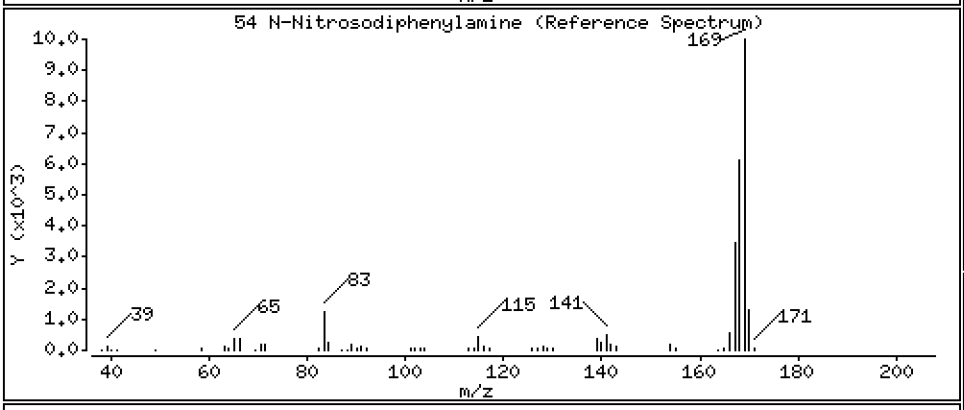
Column diameter: 0.25

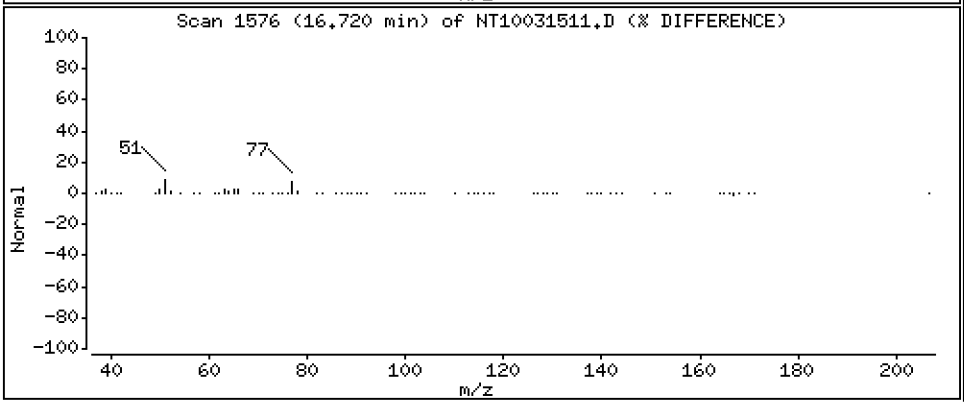
54 N-Nitrosodiphenylamine

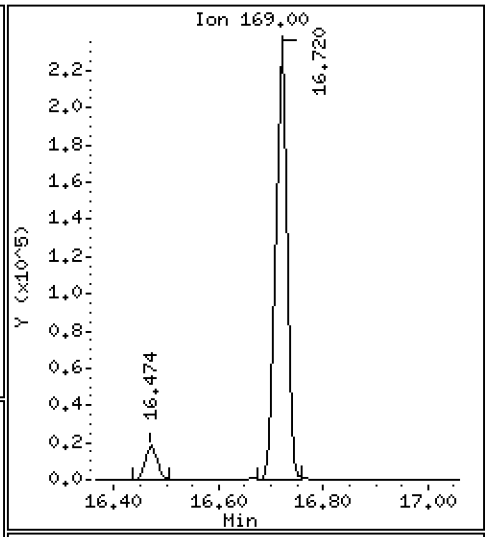
Concentration: 4.802 ug/mL

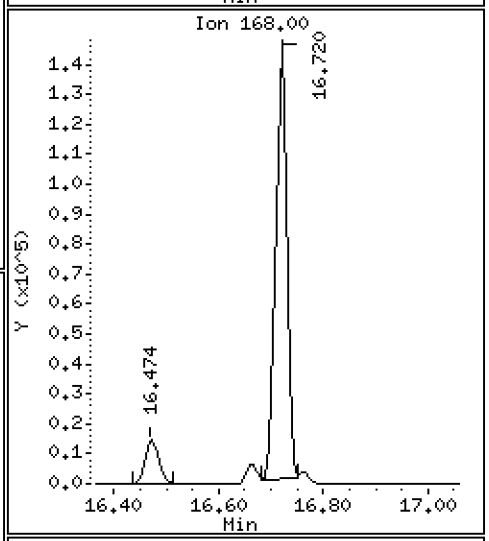


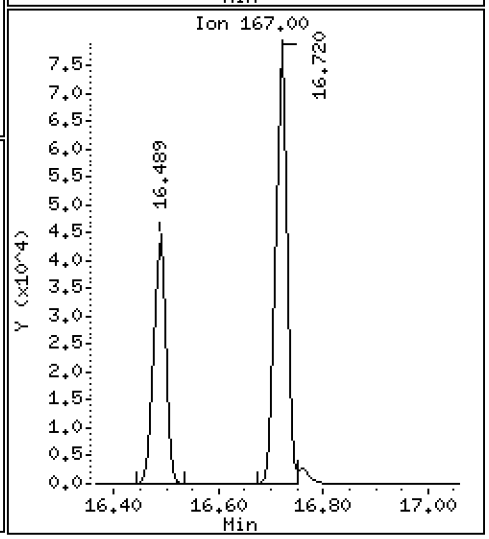












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

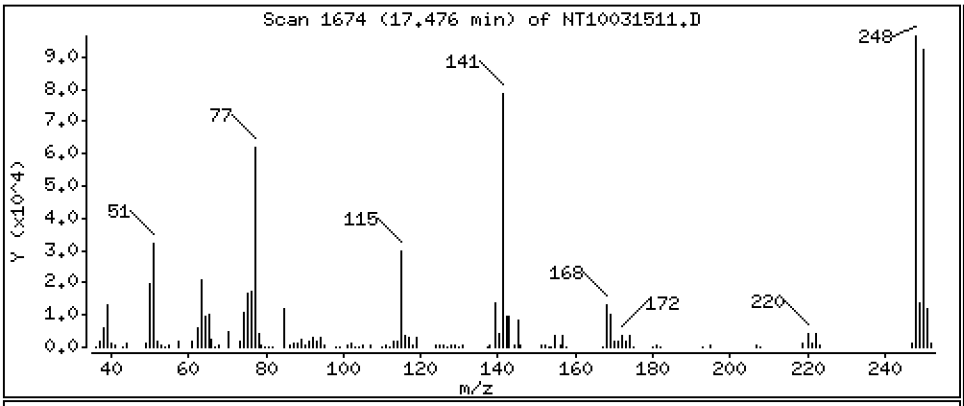
Operator: VTS

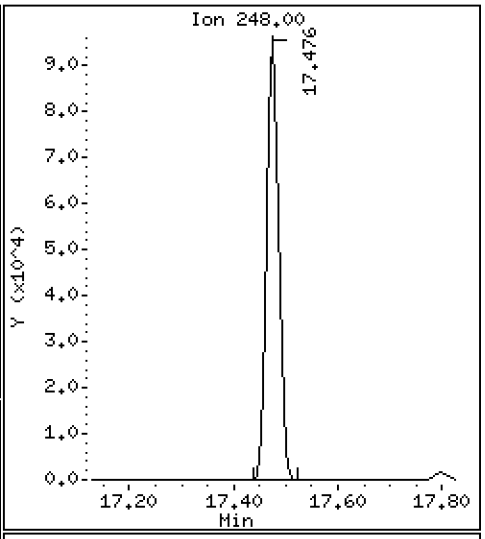
Column phase: ZB-5msi

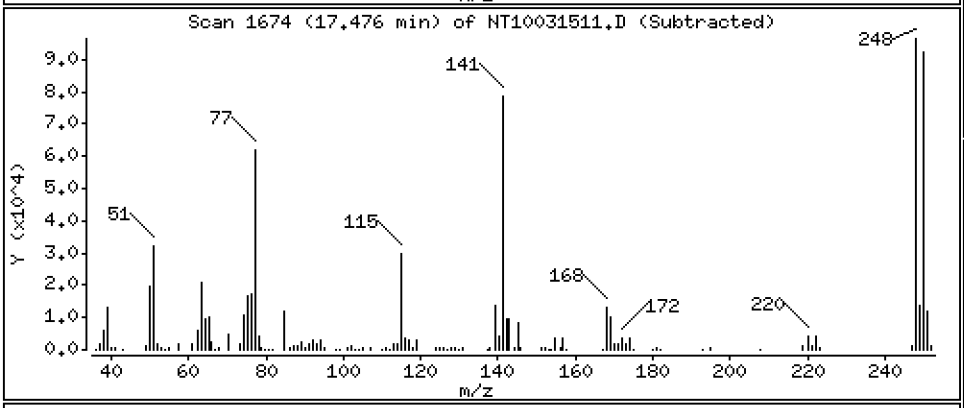
Column diameter: 0.25

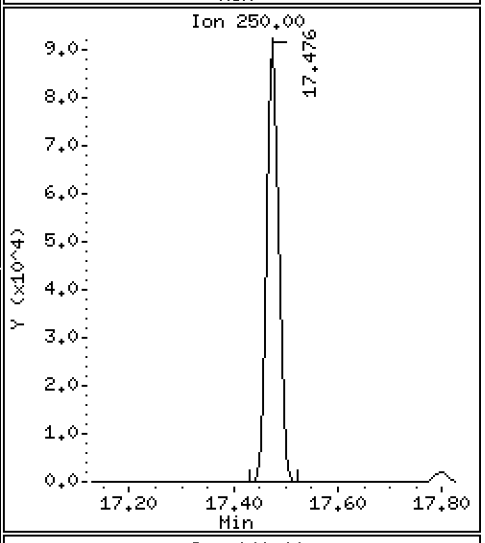
56 4-Bromophenyl-phenylether

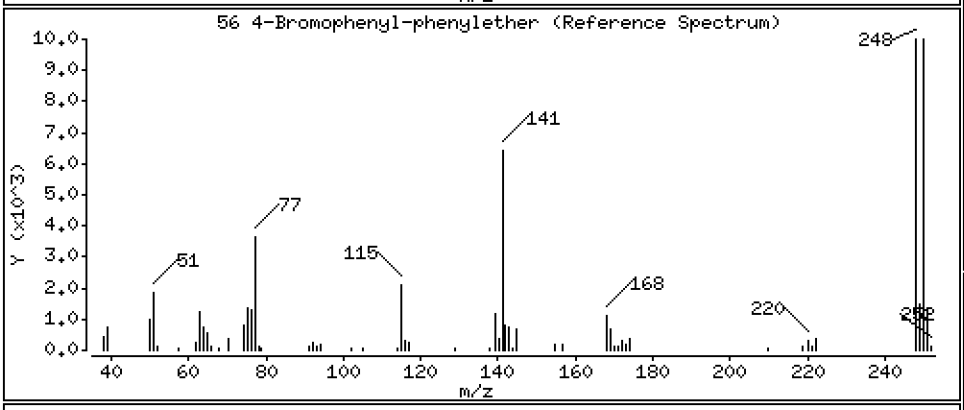
Concentration: 5.060 ug/mL

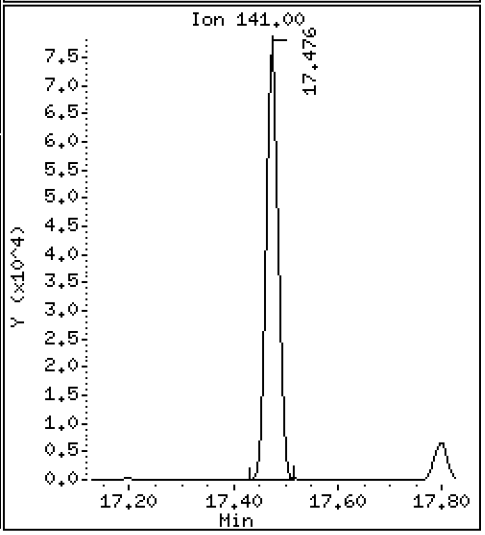


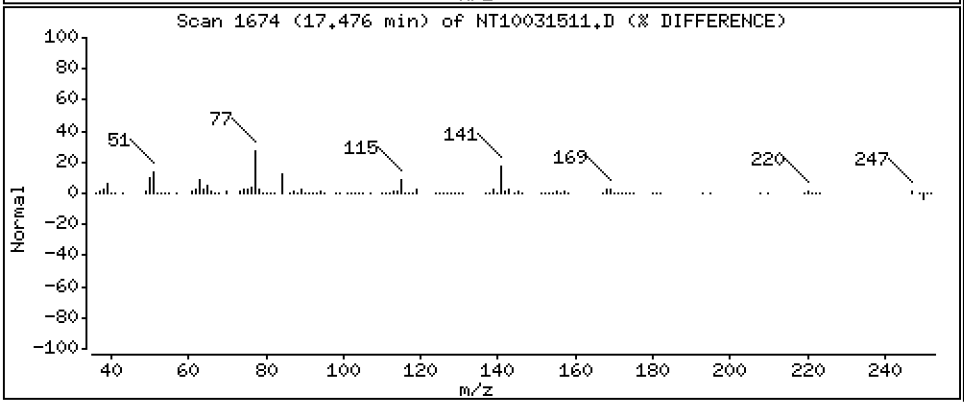












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

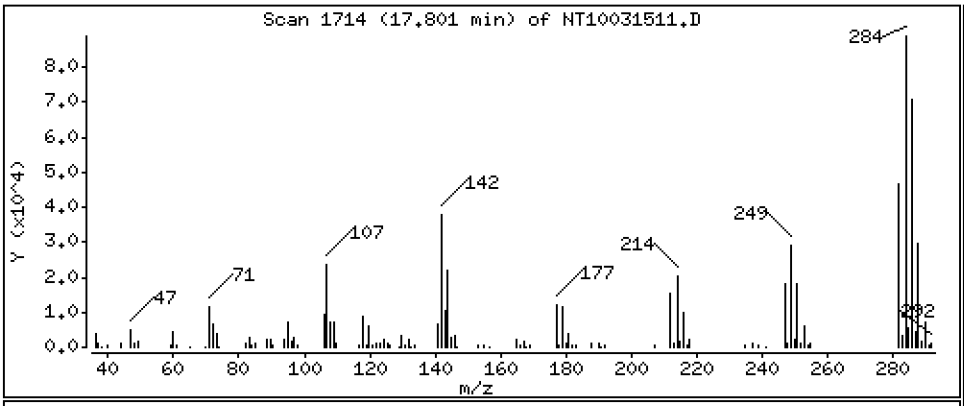
Operator: VTS

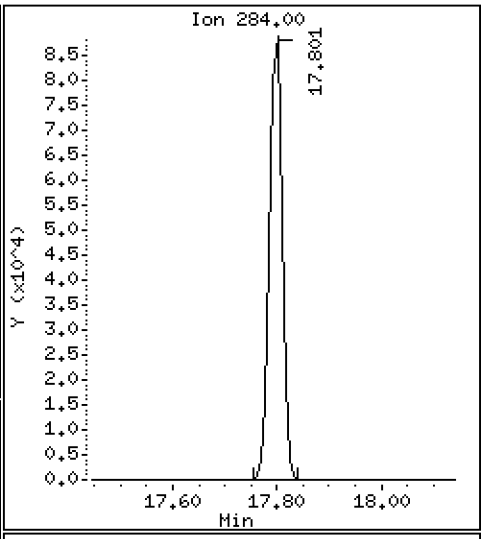
Column phase: ZB-5msi

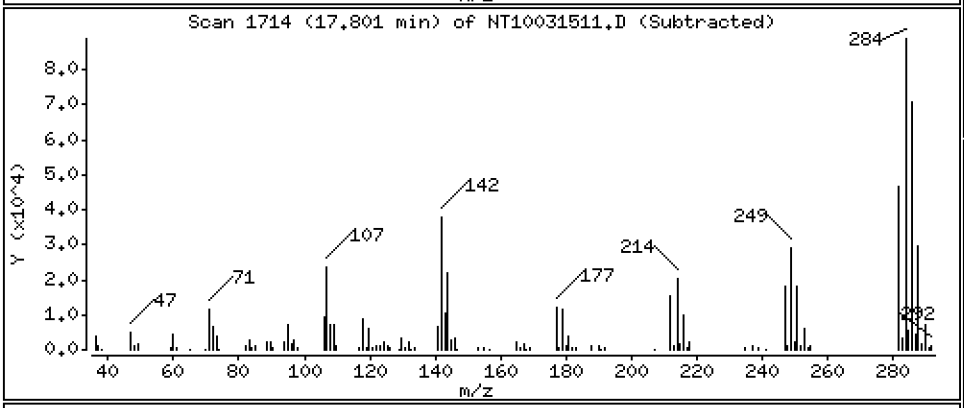
Column diameter: 0.25

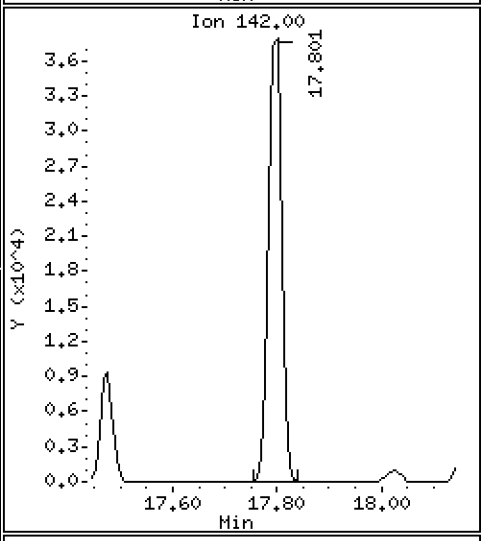
57 Hexachlorobenzene

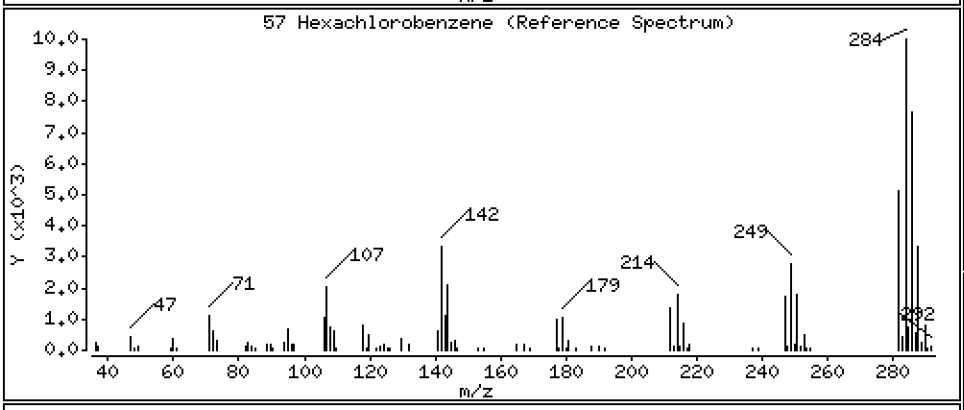
Concentration: 4.596 ug/mL

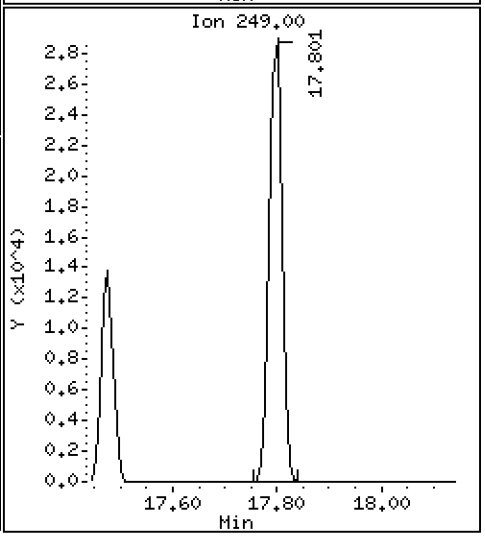


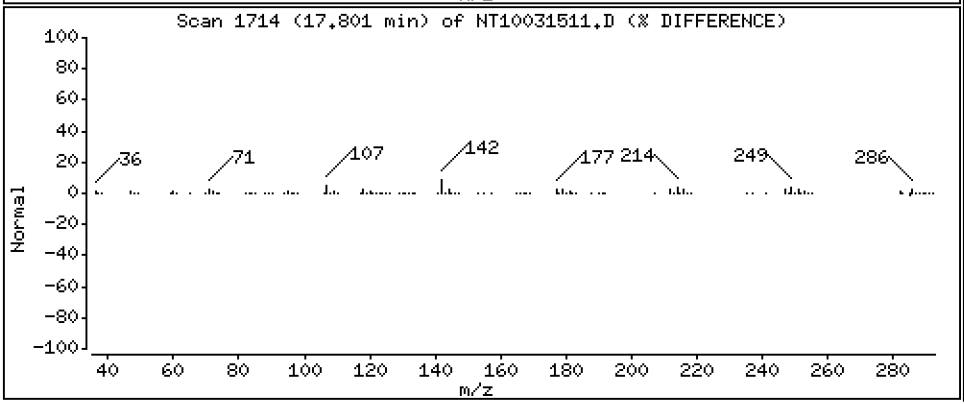












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

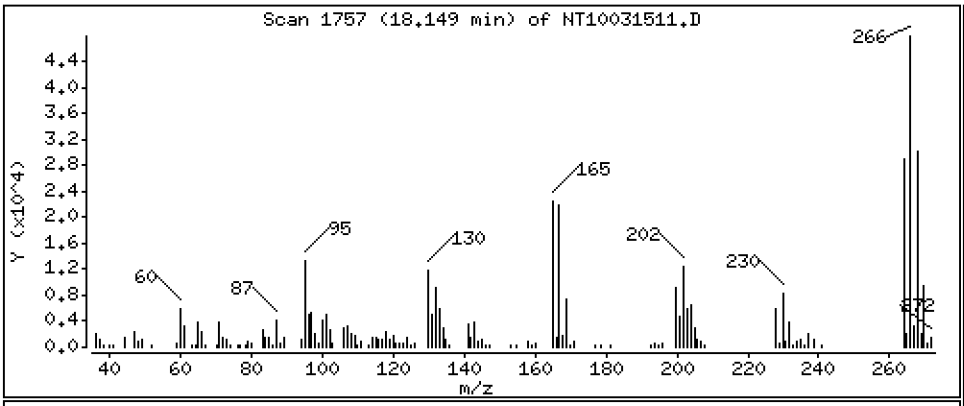
Operator: VTS

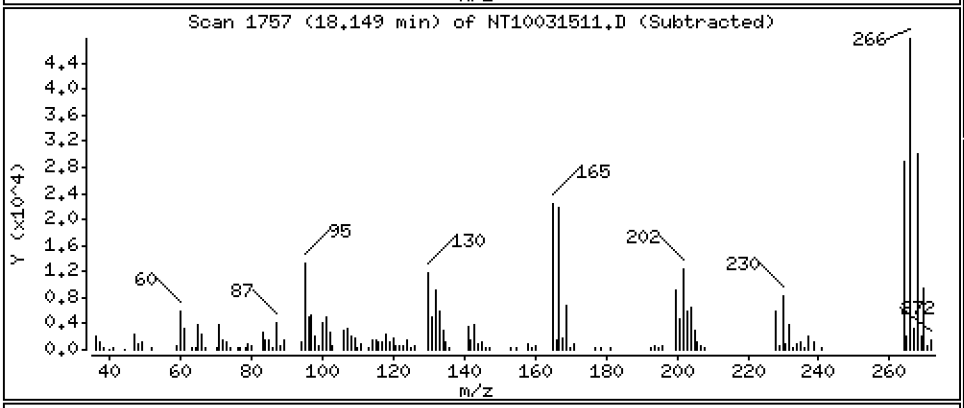
Column phase: ZB-5msi

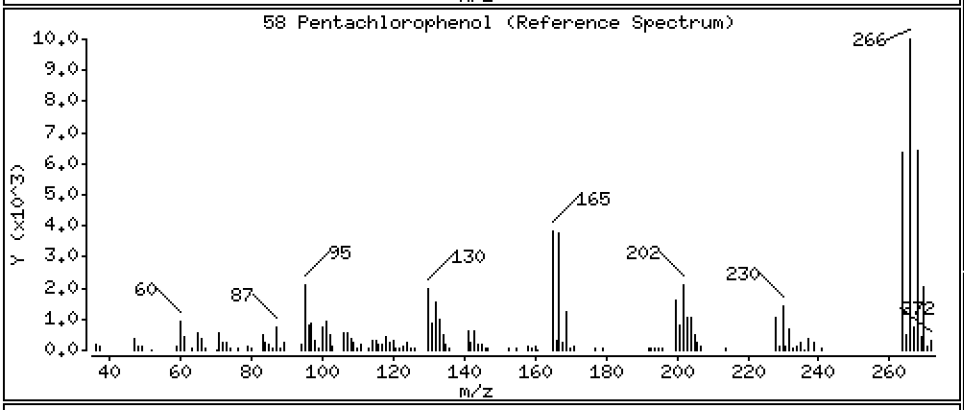
Column diameter: 0.25

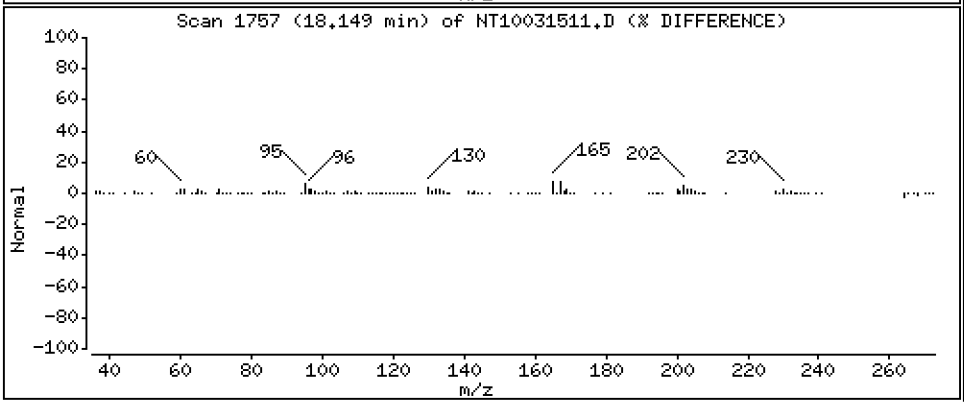
58 Pentachlorophenol

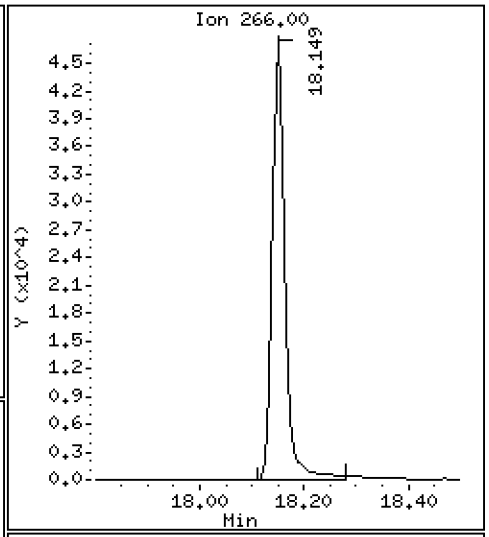
Concentration: 4.057 ug/mL

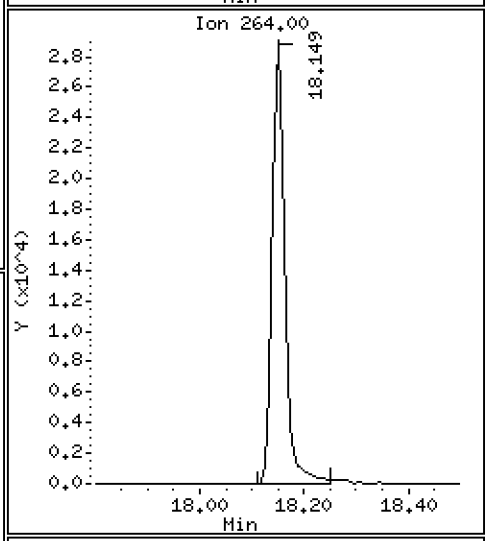


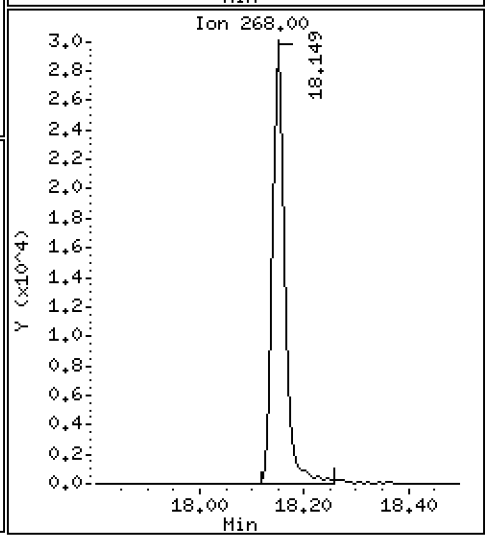












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

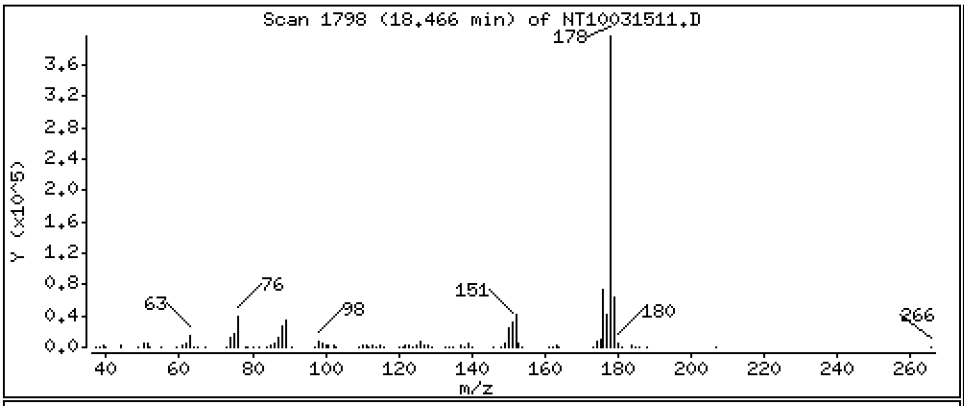
Operator: VTS

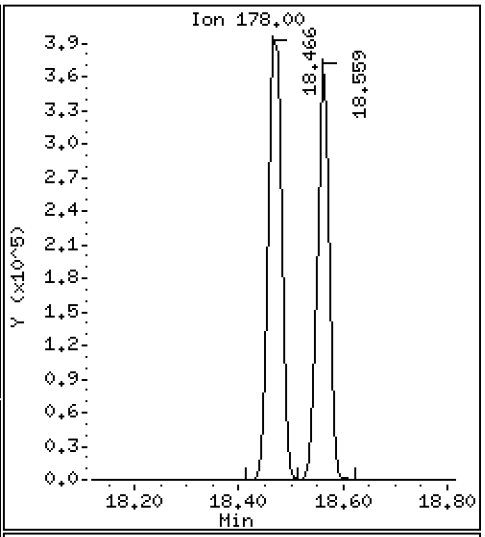
Column phase: ZB-5msi

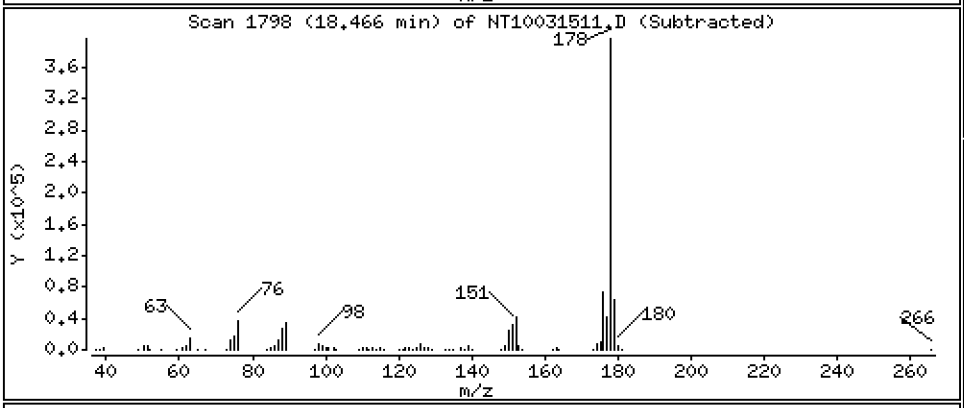
Column diameter: 0.25

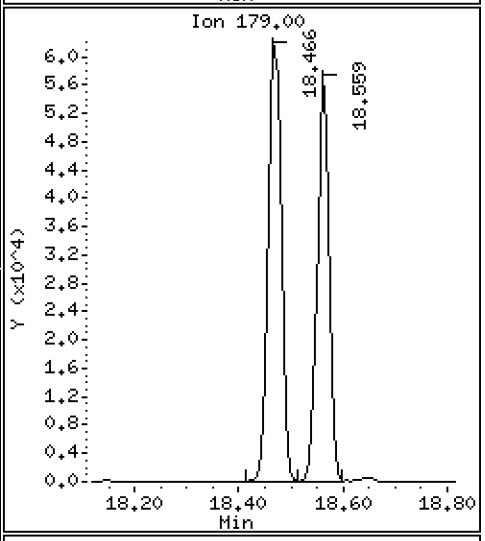
60 Phenanthrene

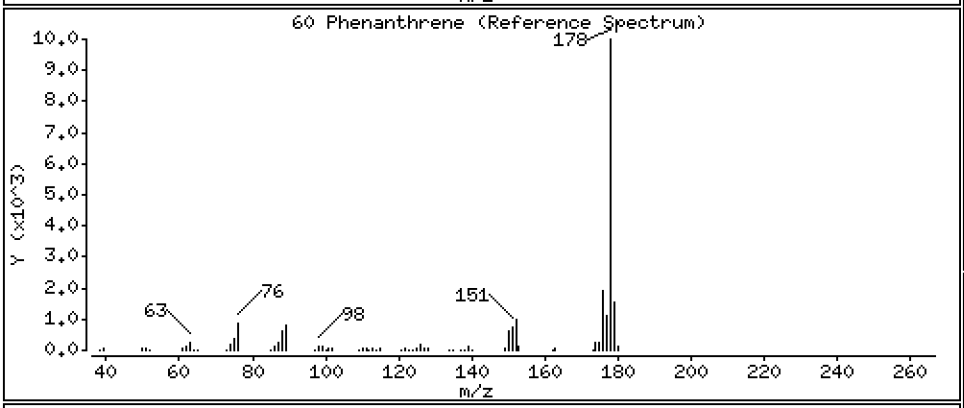
Concentration: 4.602 ug/mL

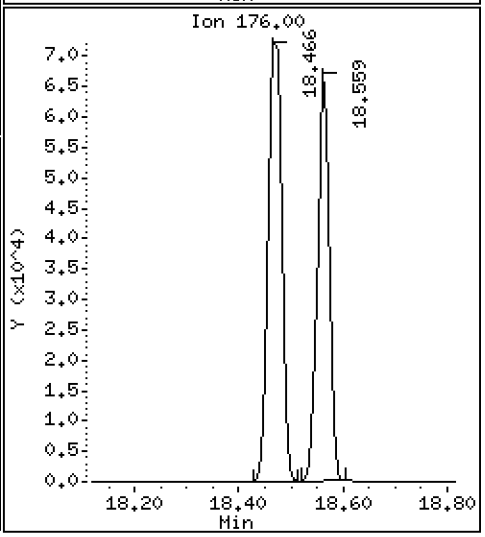


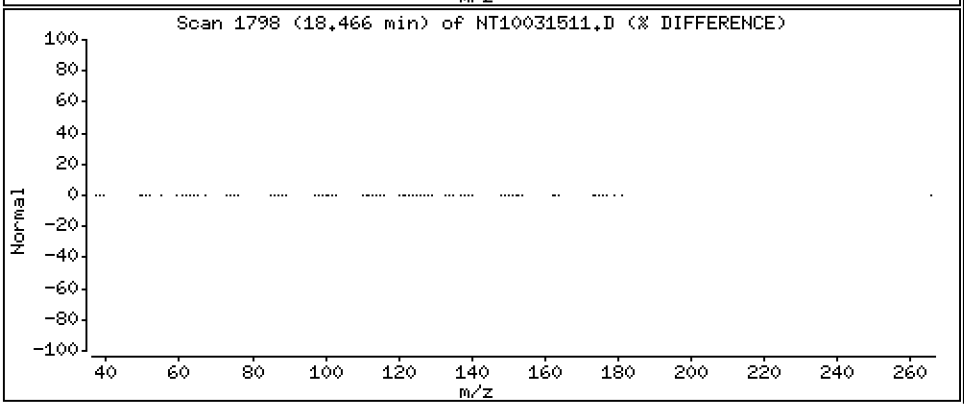












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

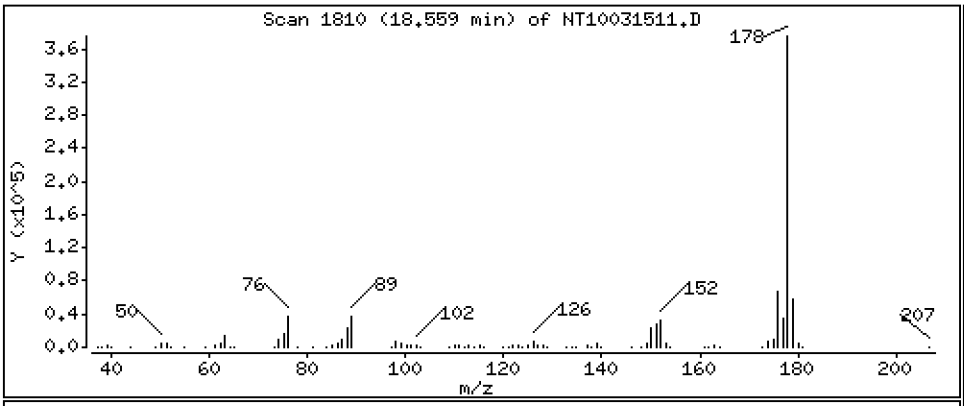
Operator: VTS

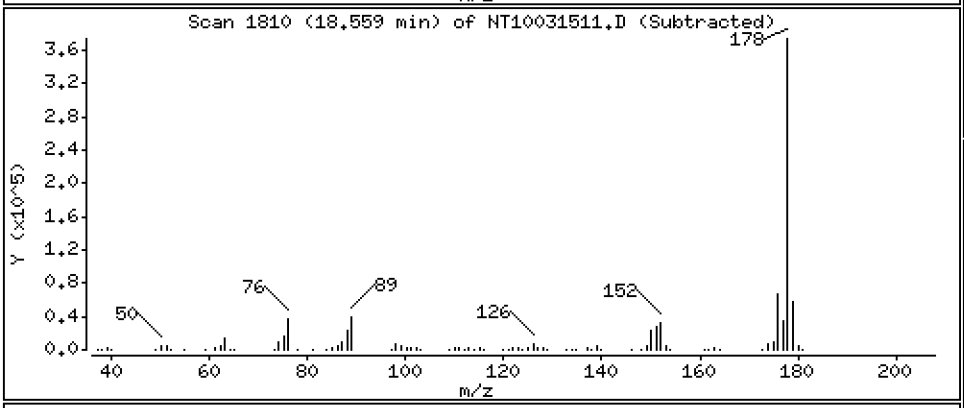
Column phase: ZB-5msi

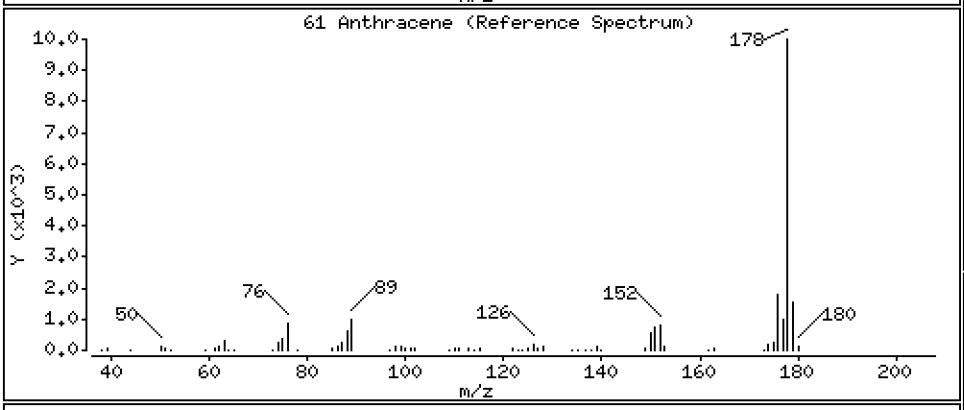
Column diameter: 0.25

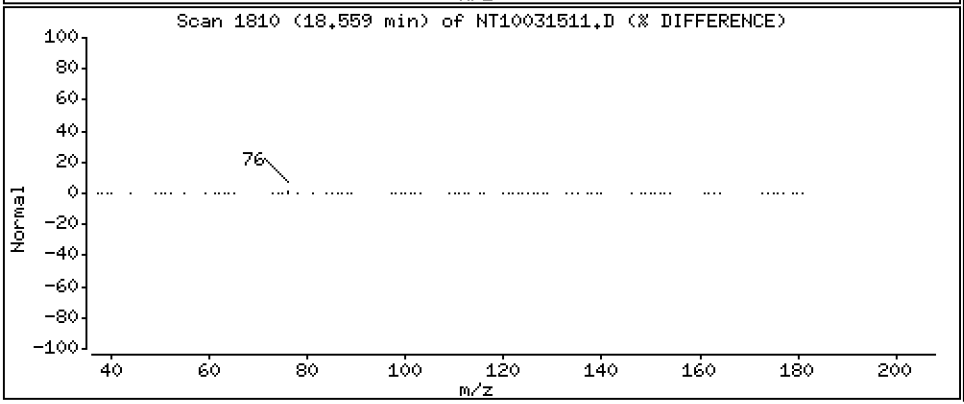
61 Anthracene

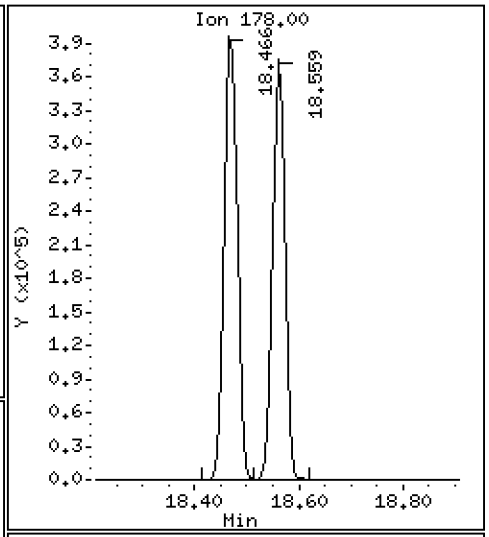
Concentration: 4.167 ug/mL

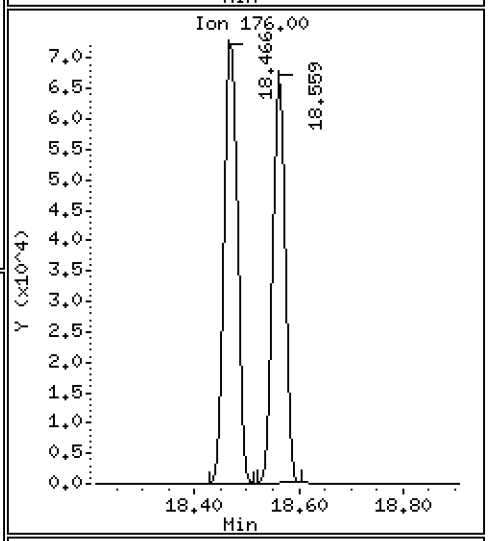


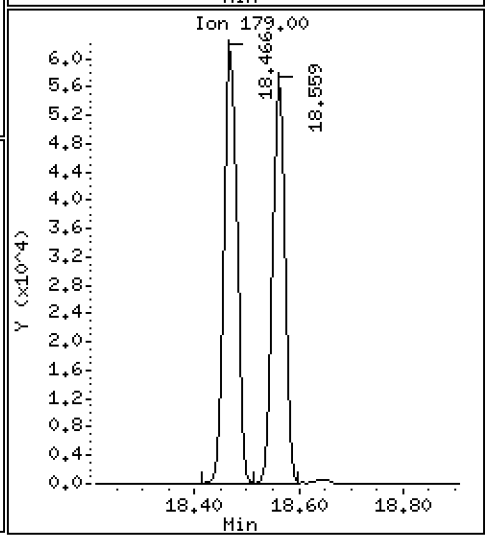












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

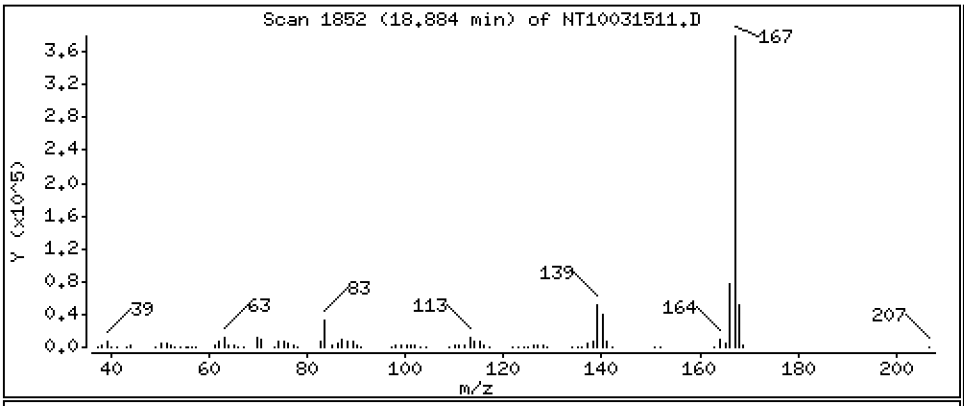
Operator: VTS

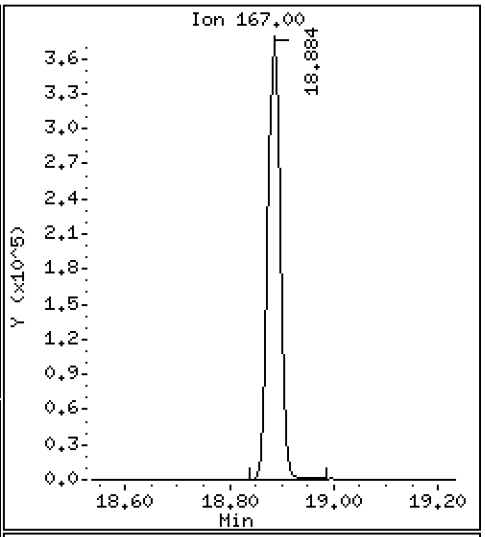
Column phase: ZB-5msi

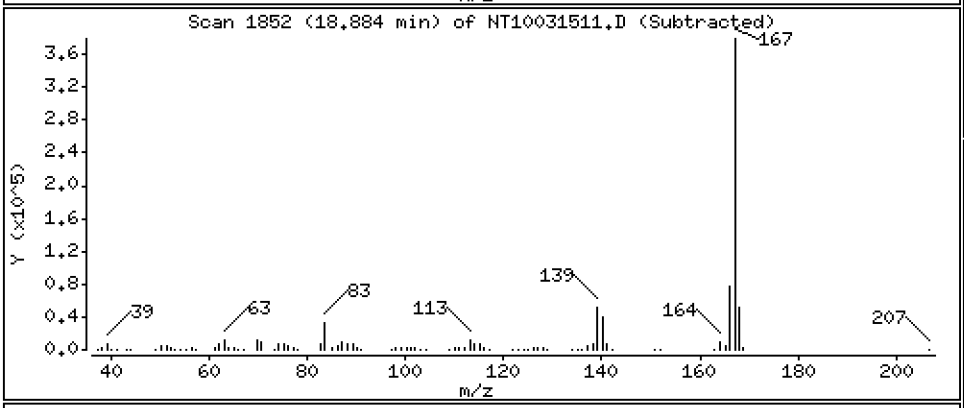
Column diameter: 0.25

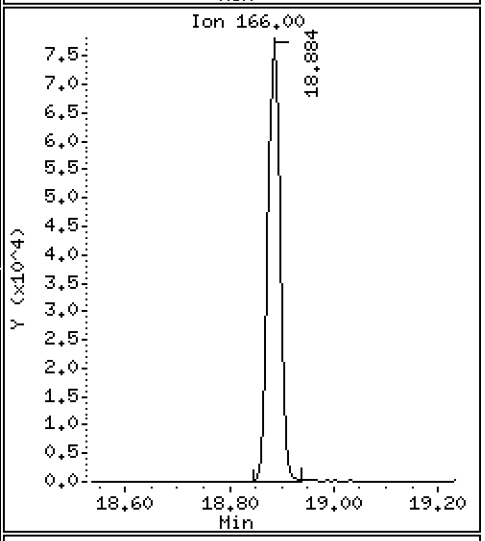
62 Carbazole

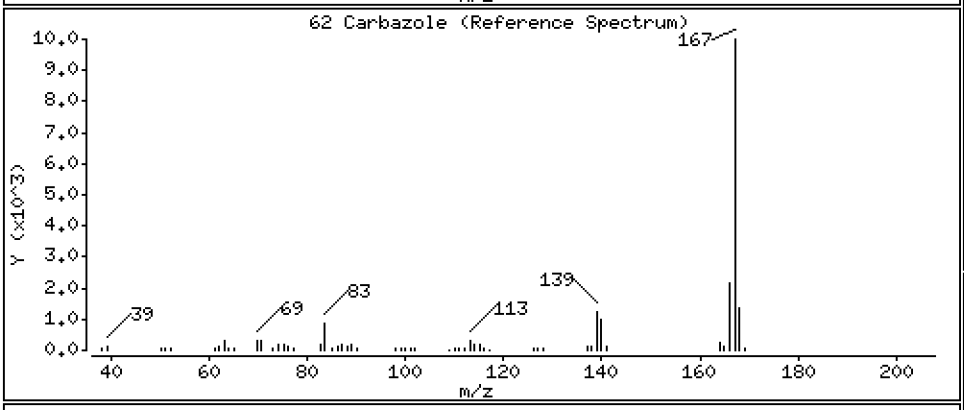
Concentration: 4.730 ug/mL

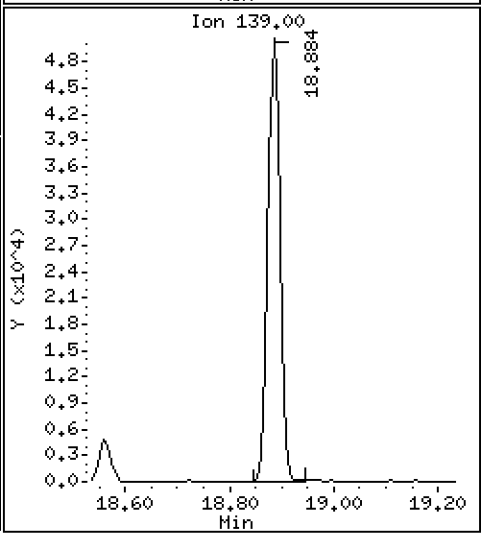


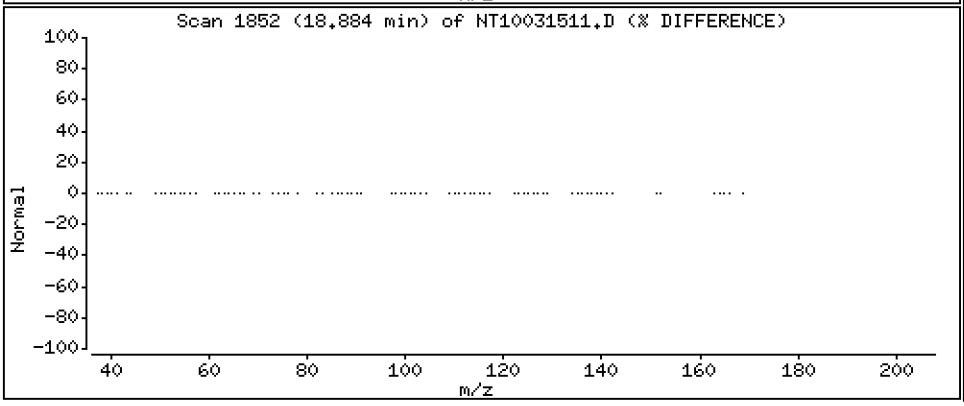












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

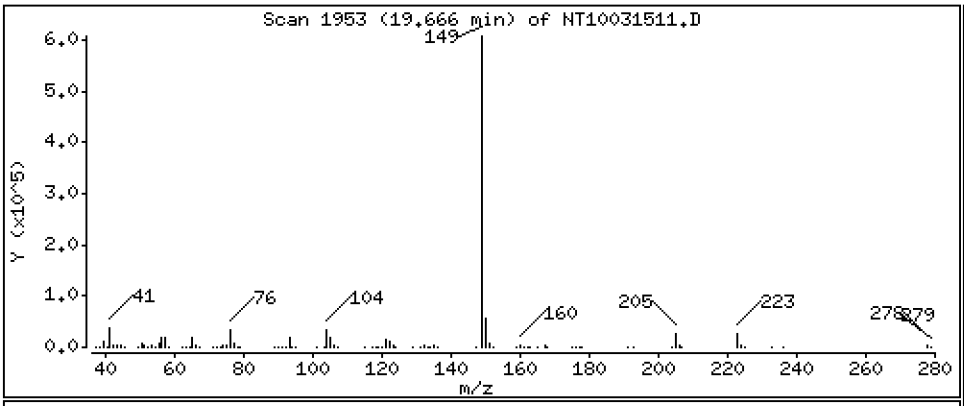
Operator: VTS

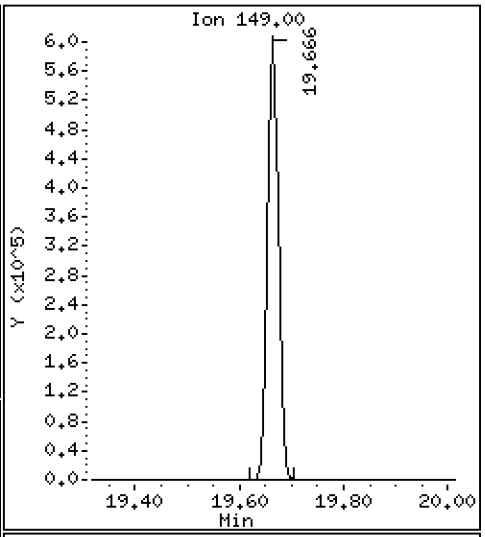
Column phase: ZB-5msi

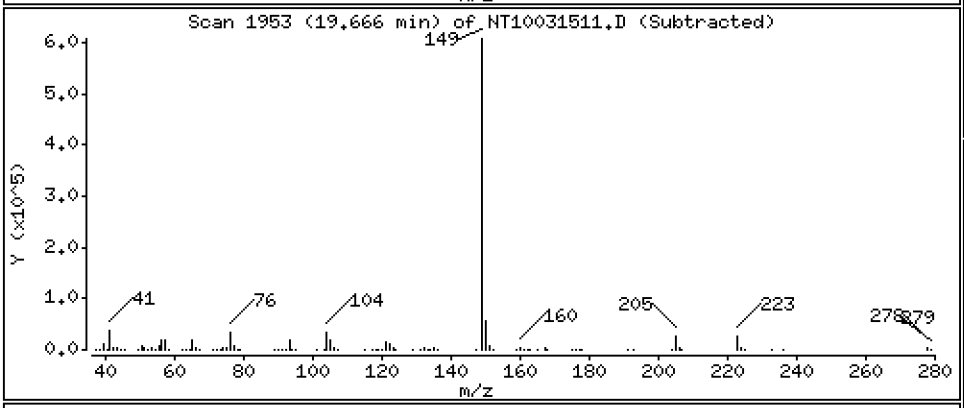
Column diameter: 0.25

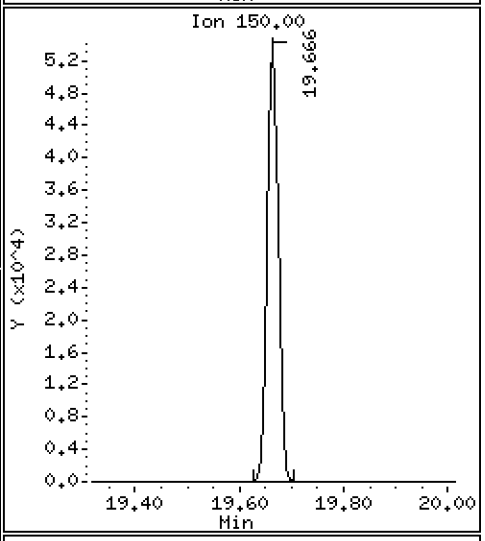
63 Di-n-butylphthalate

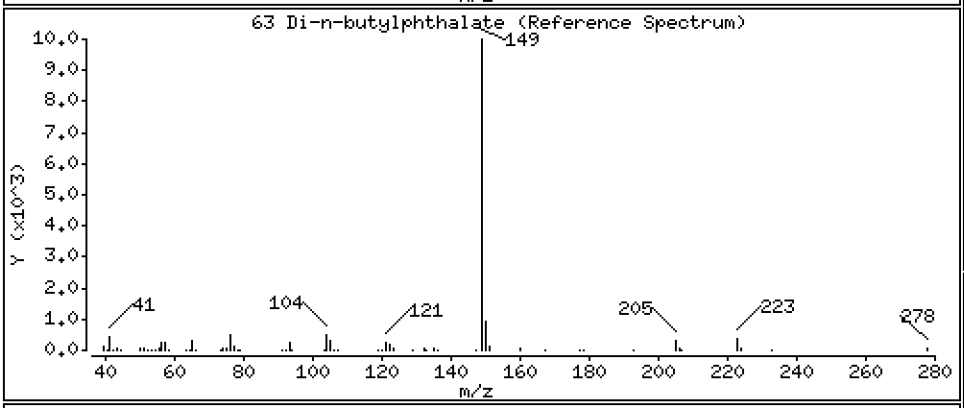
Concentration: 4.967 ug/mL

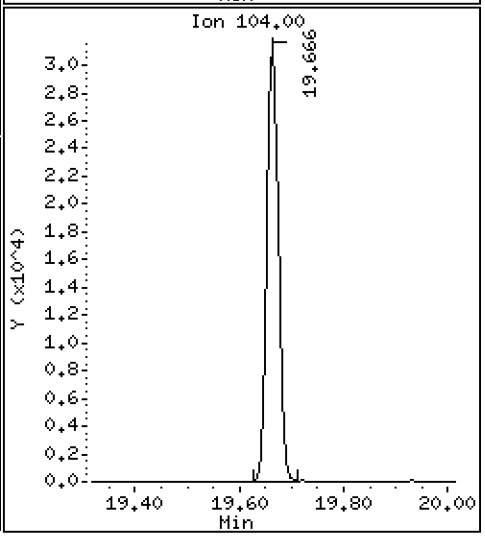


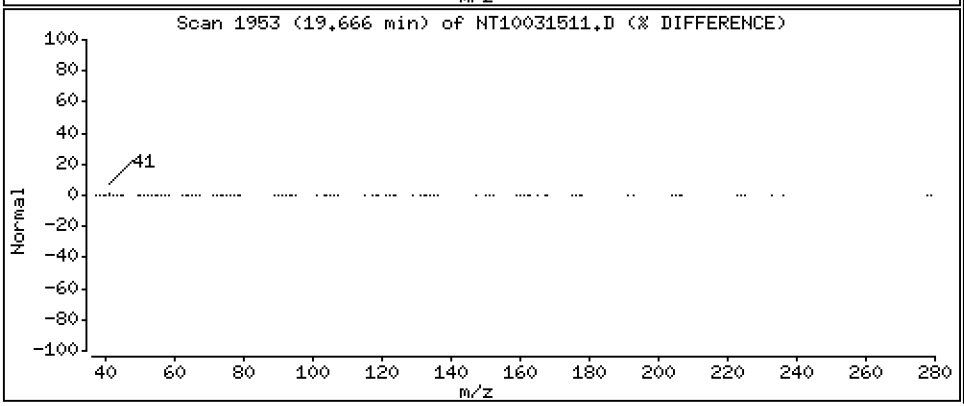












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

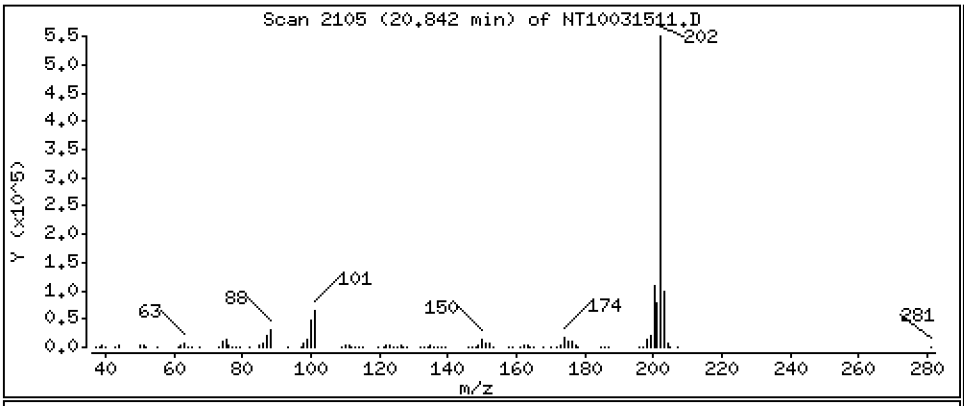
Operator: VTS

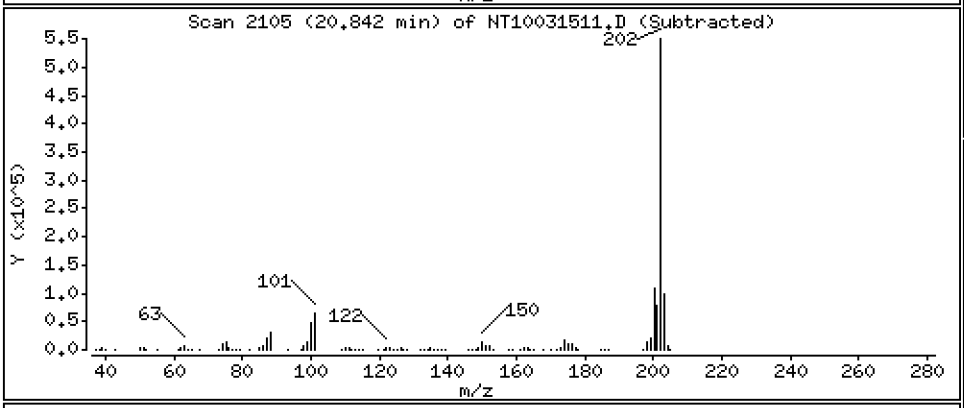
Column phase: ZB-5msi

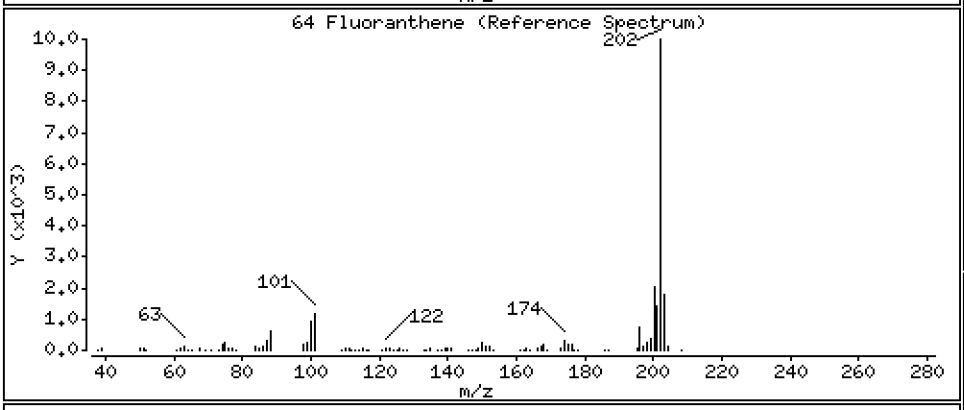
Column diameter: 0.25

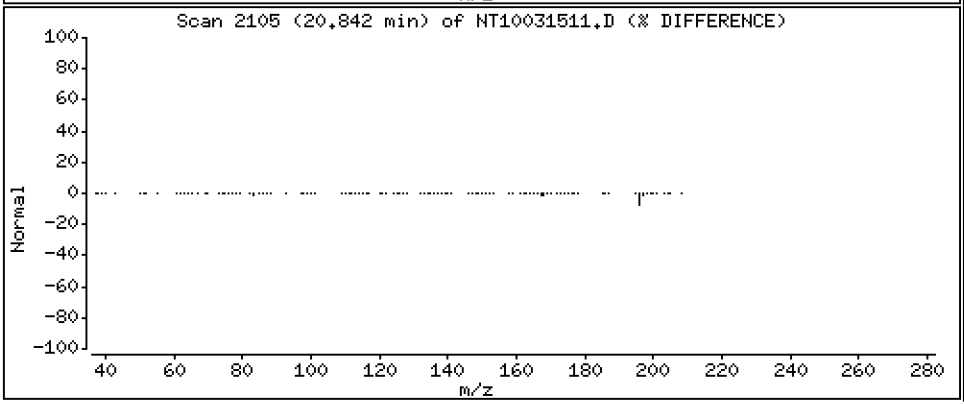
64 Fluoranthene

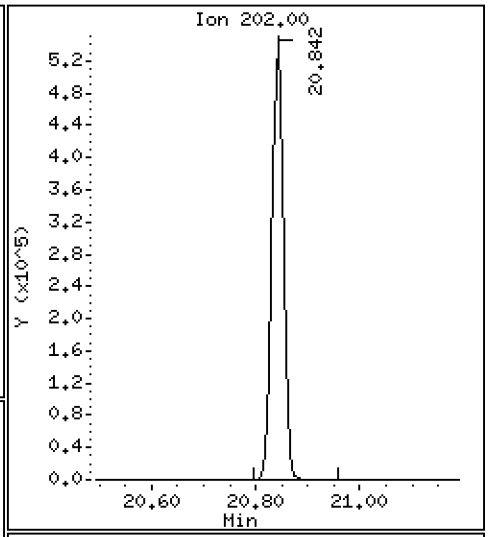
Concentration: 4.472 ug/mL

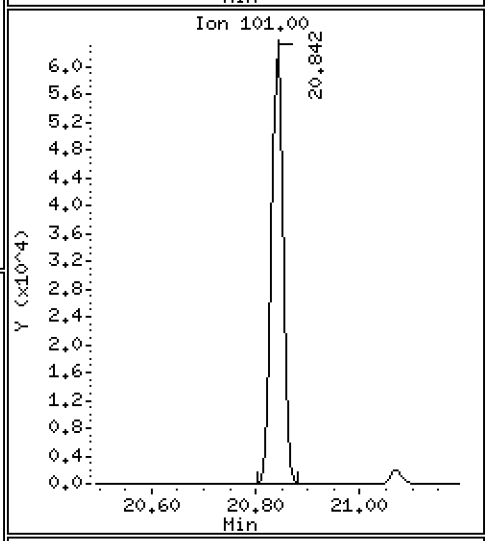


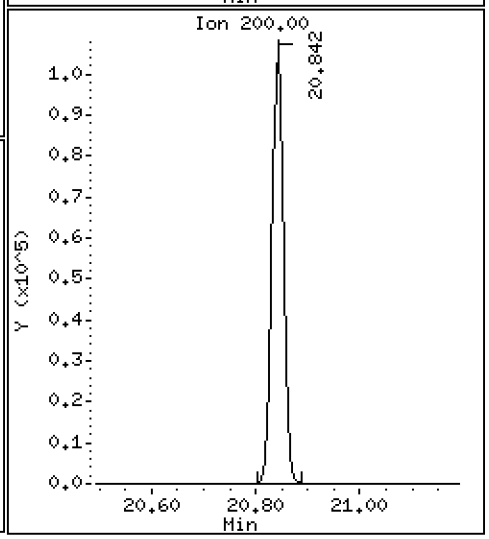












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

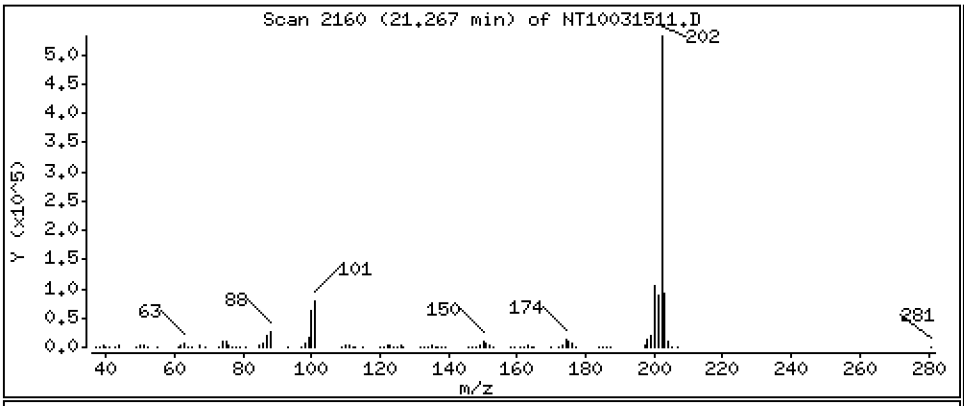
Operator: VTS

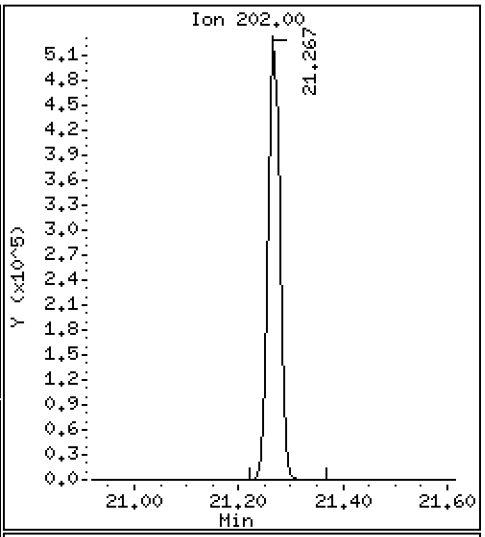
Column phase: ZB-5msi

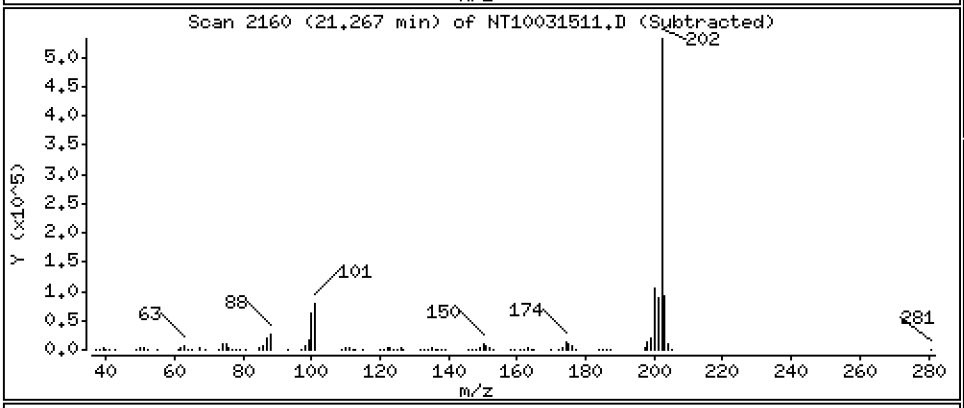
Column diameter: 0.25

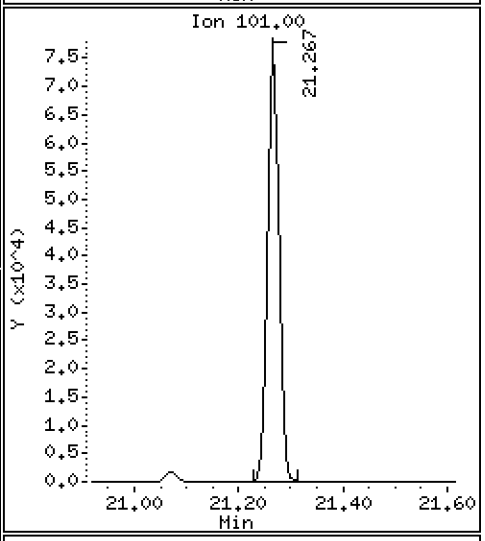
65 Pyrene

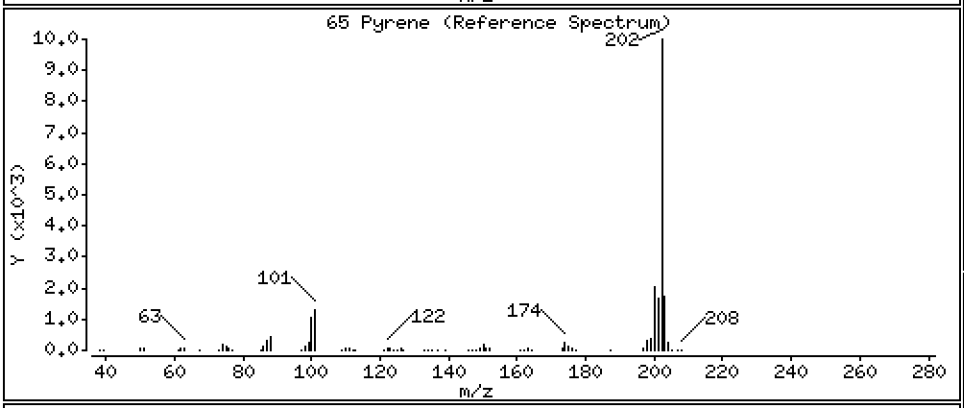
Concentration: 4.339 ug/mL

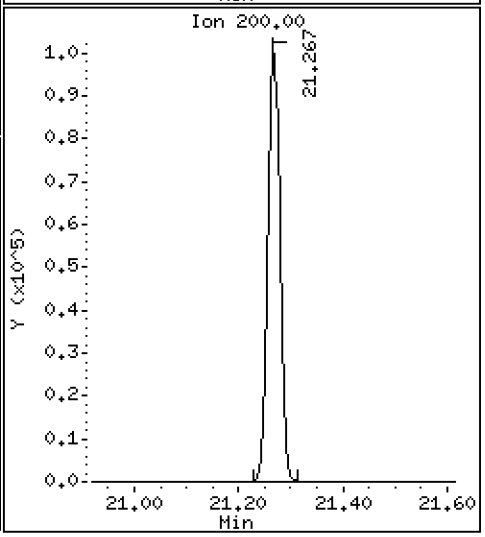


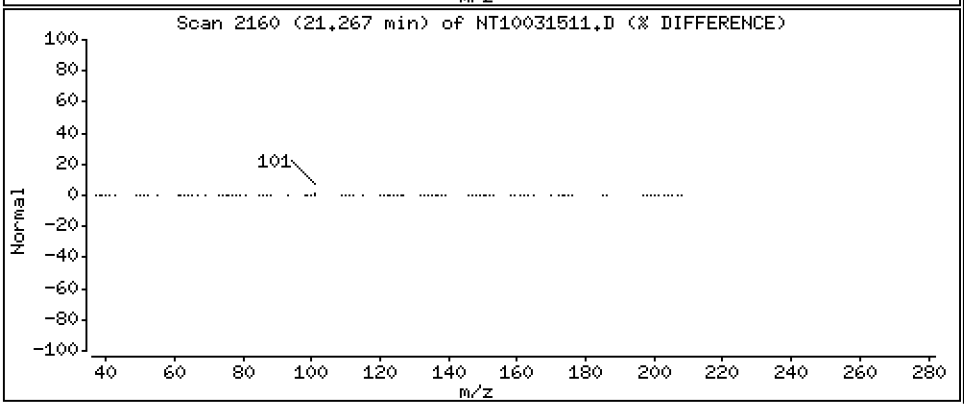












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

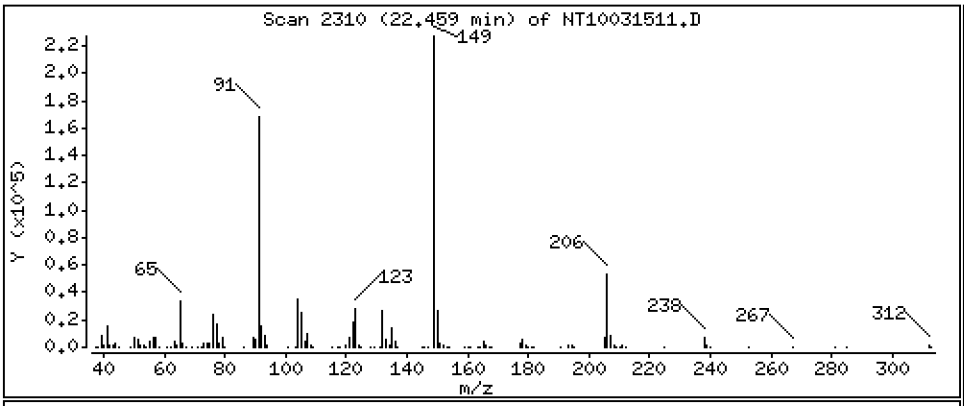
Operator: VTS

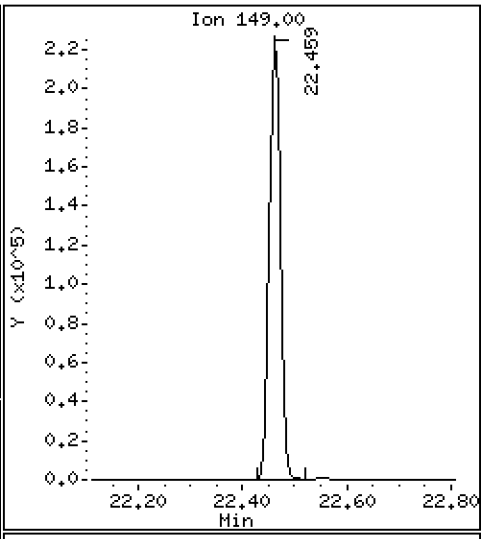
Column phase: ZB-5msi

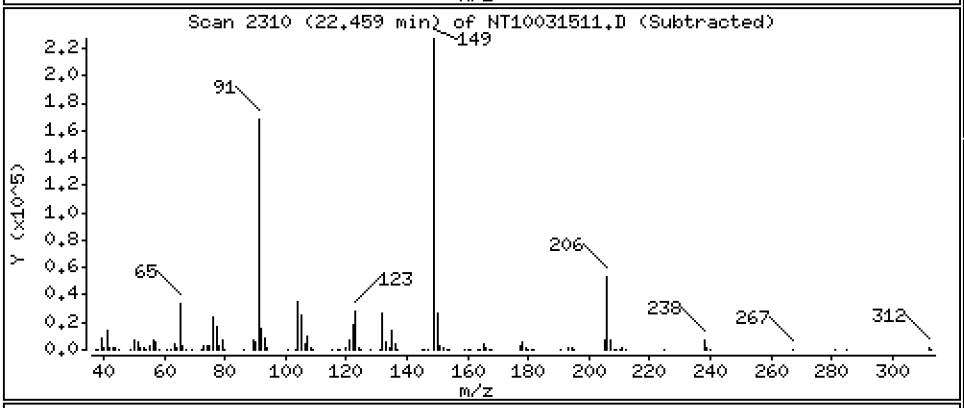
Column diameter: 0.25

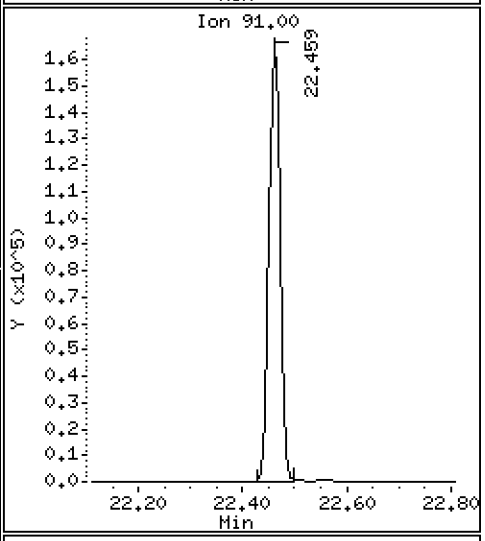
67 Butylbenzylphthalate

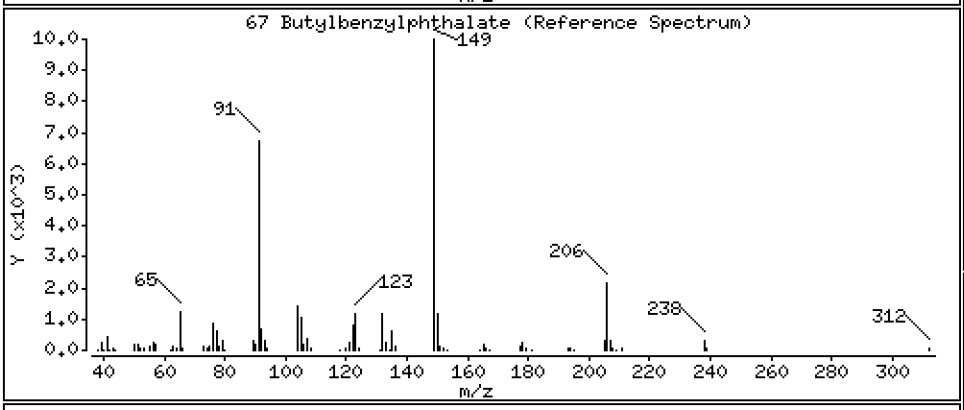
Concentration: 4.834 ug/mL

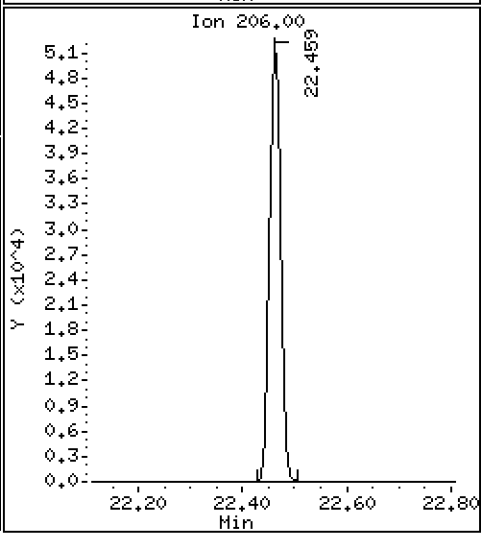


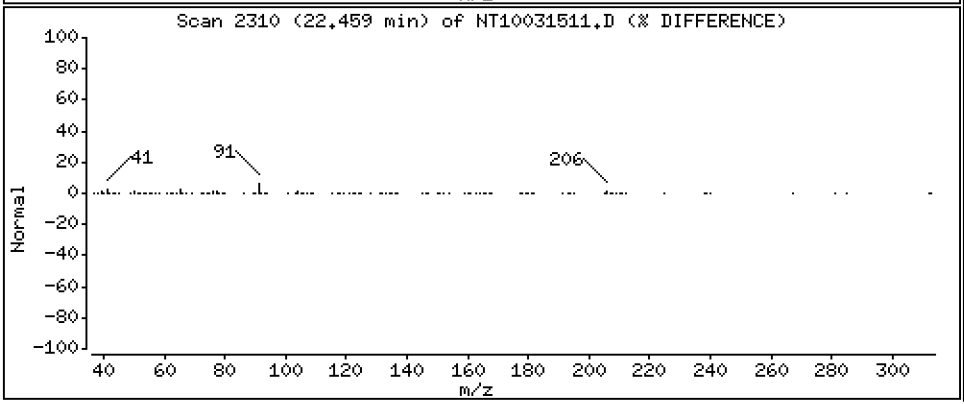












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

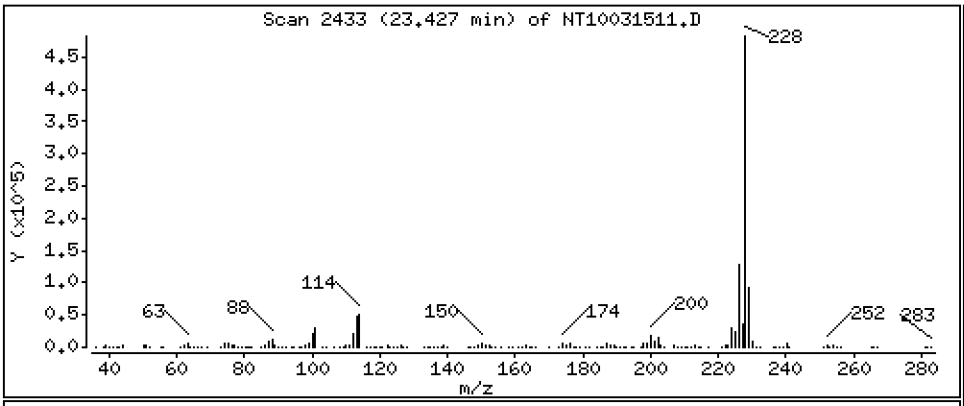
Operator: VTS

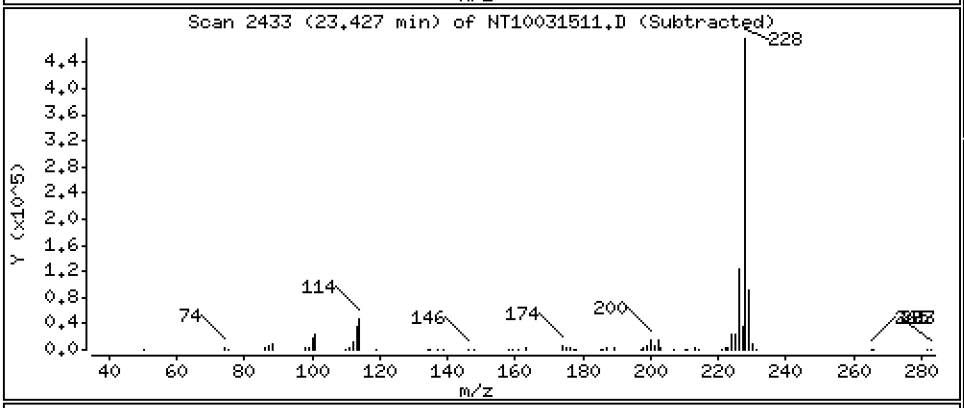
Column phase: ZB-5msi

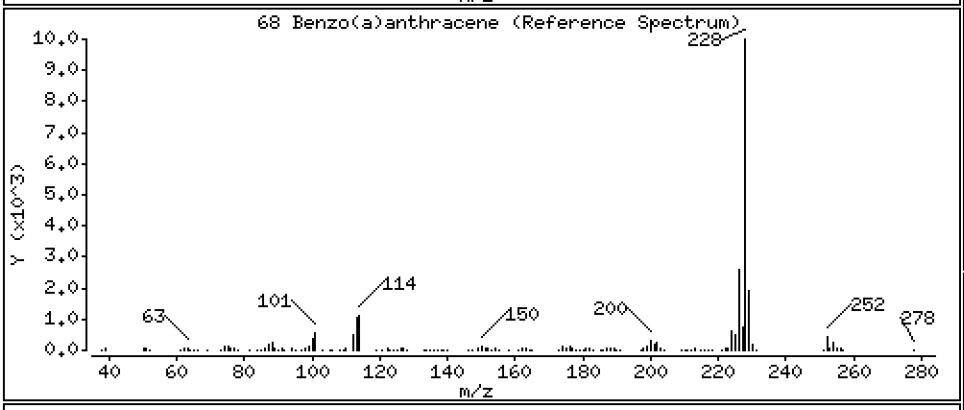
Column diameter: 0.25

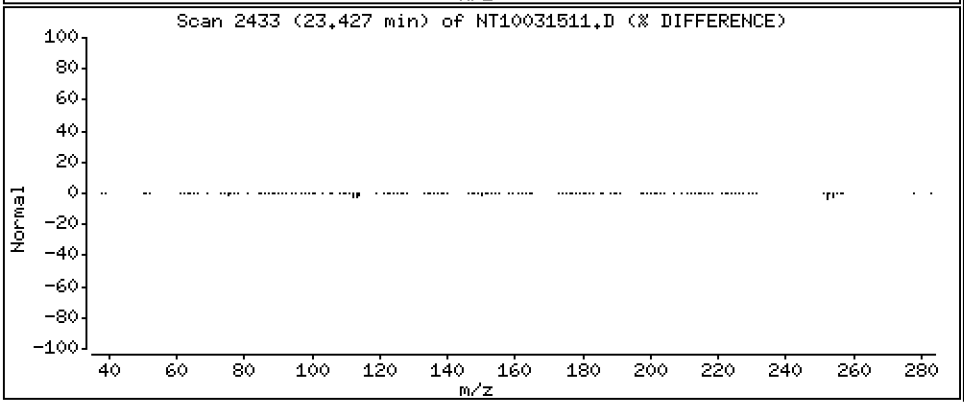
68 Benzo(a)anthracene

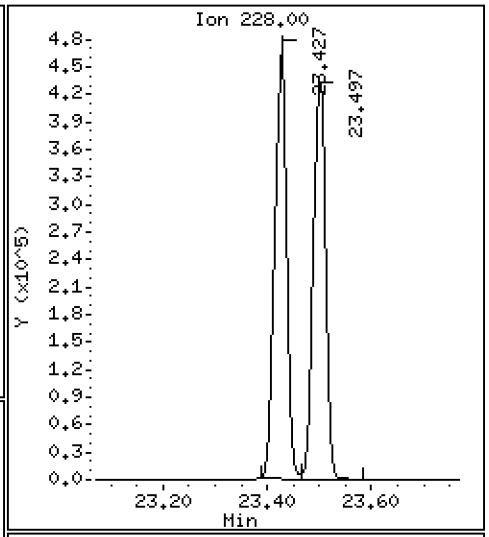
Concentration: 4.647 ug/mL

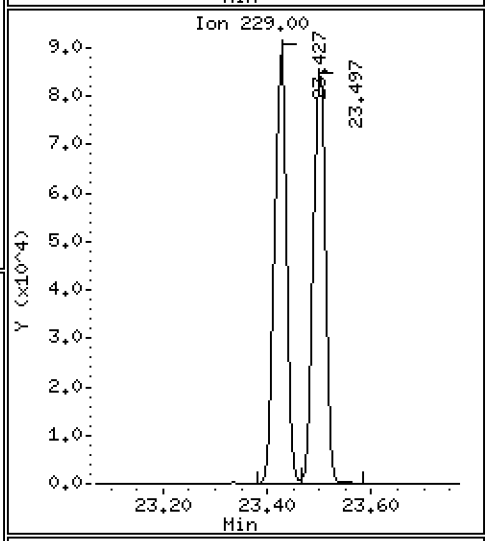


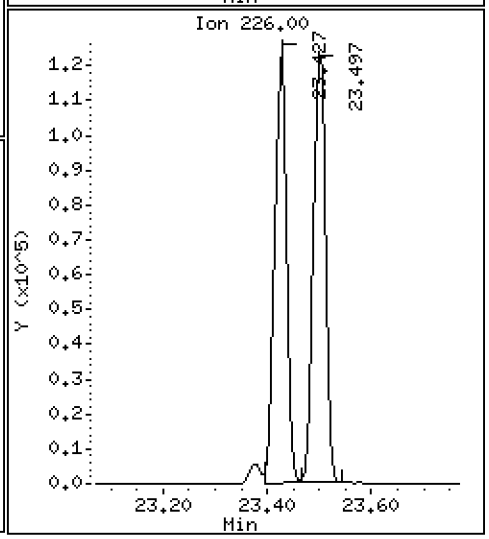












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

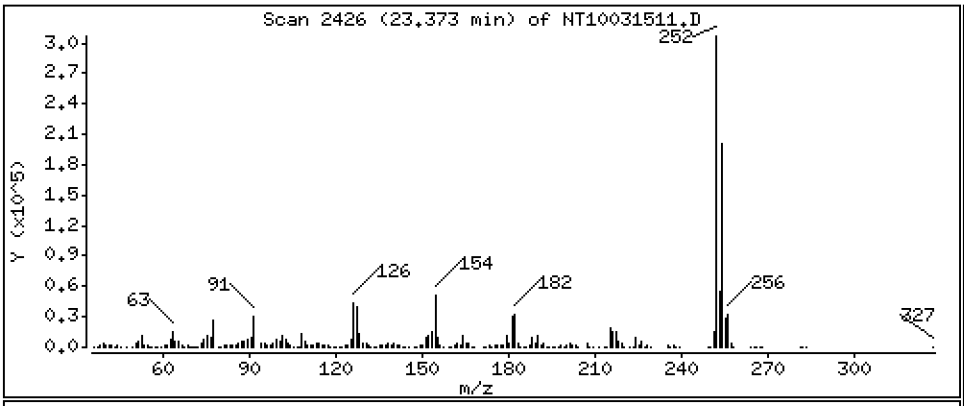
Operator: VTS

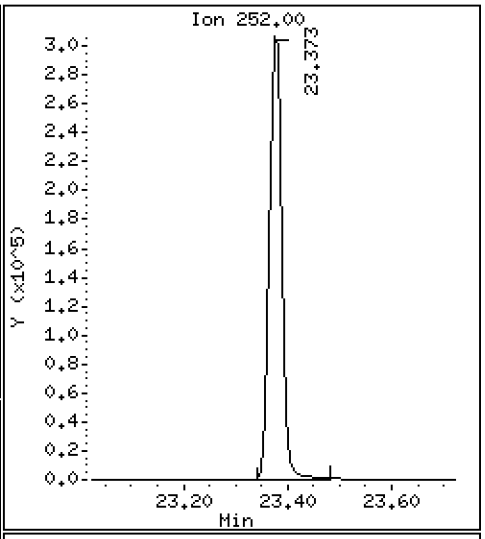
Column phase: ZB-5msi

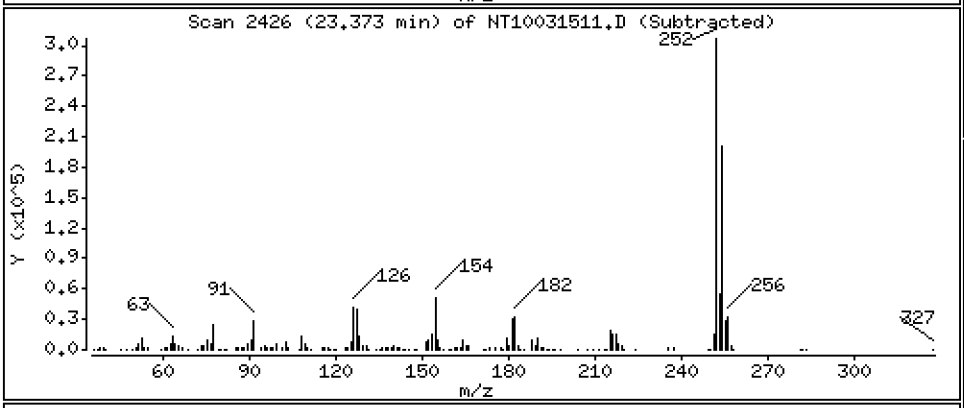
Column diameter: 0.25

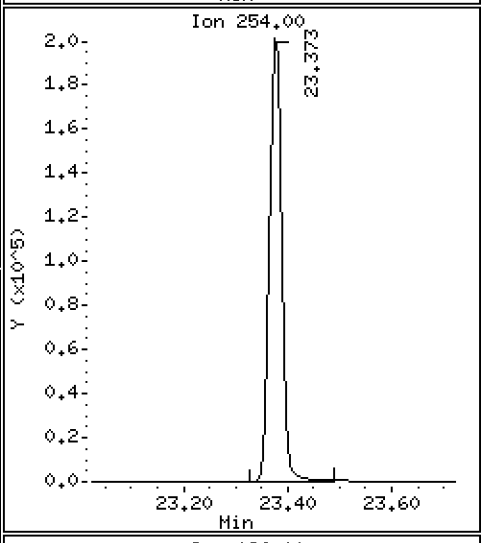
70 3,3'-Dichlorobenzidine

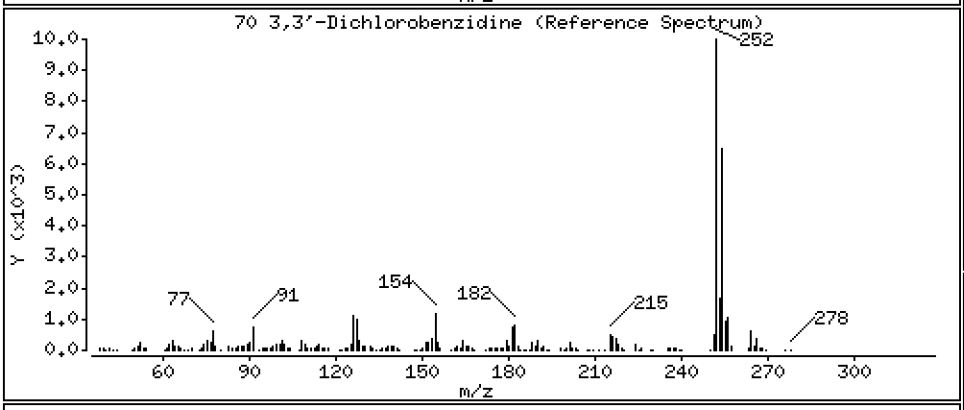
Concentration: 9.817 ug/mL

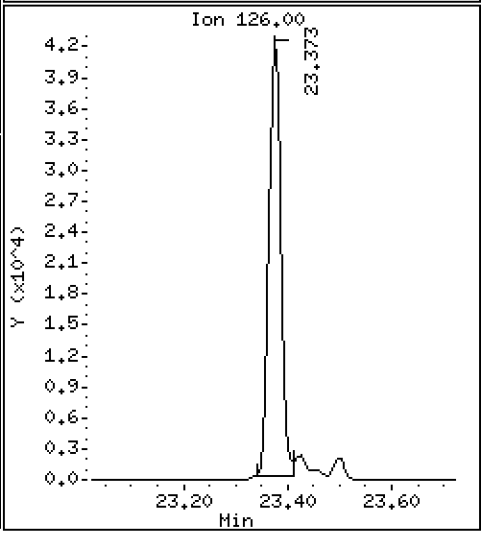


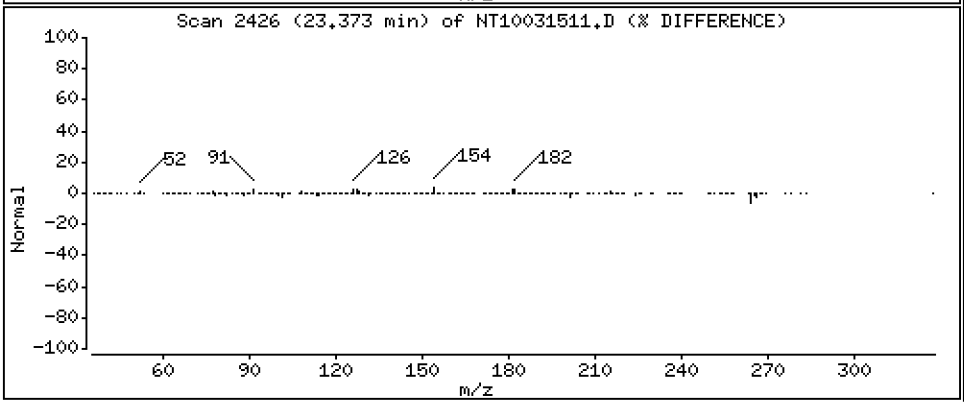












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

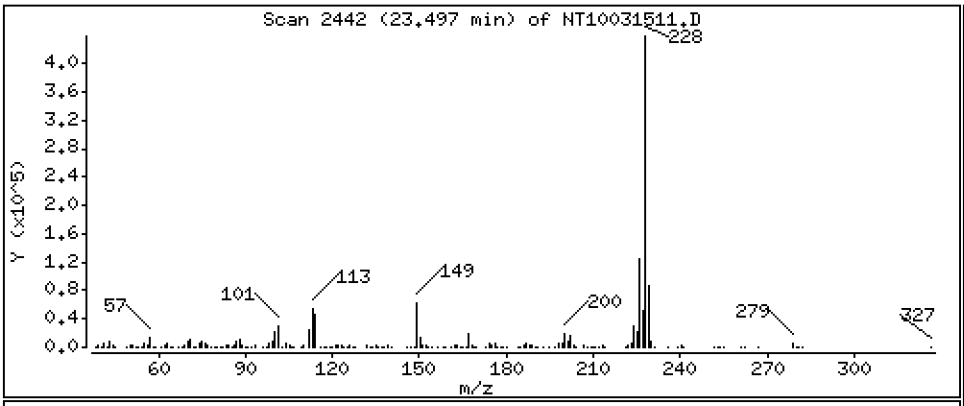
Operator: VTS

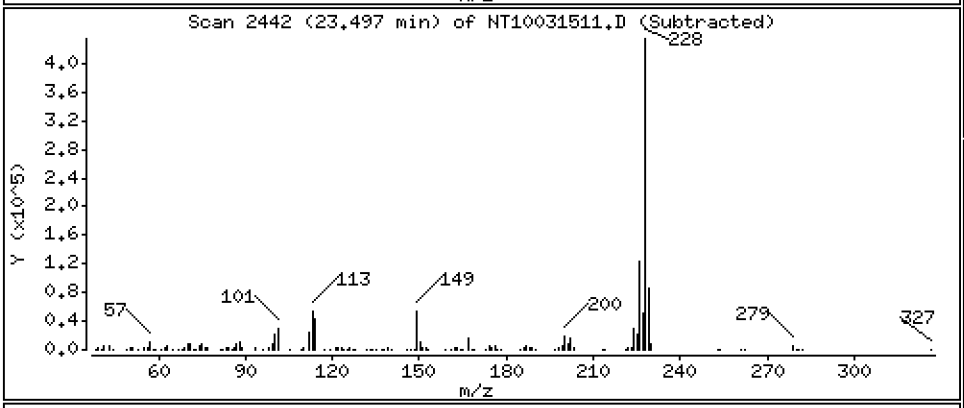
Column phase: ZB-5msi

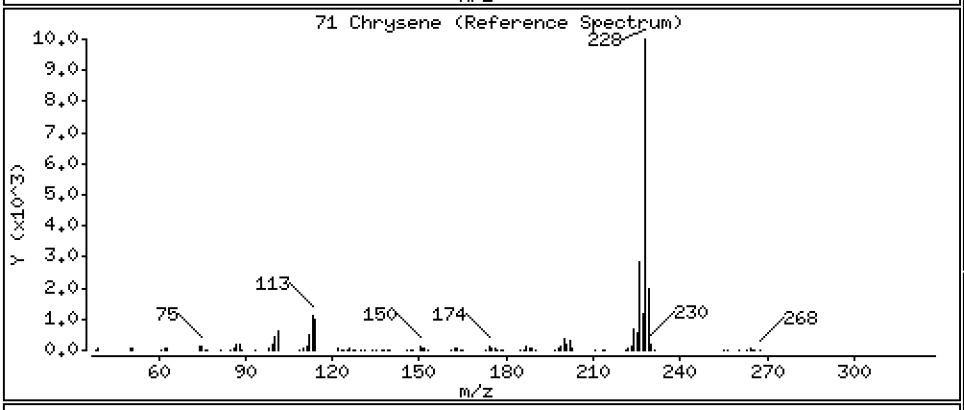
Column diameter: 0.25

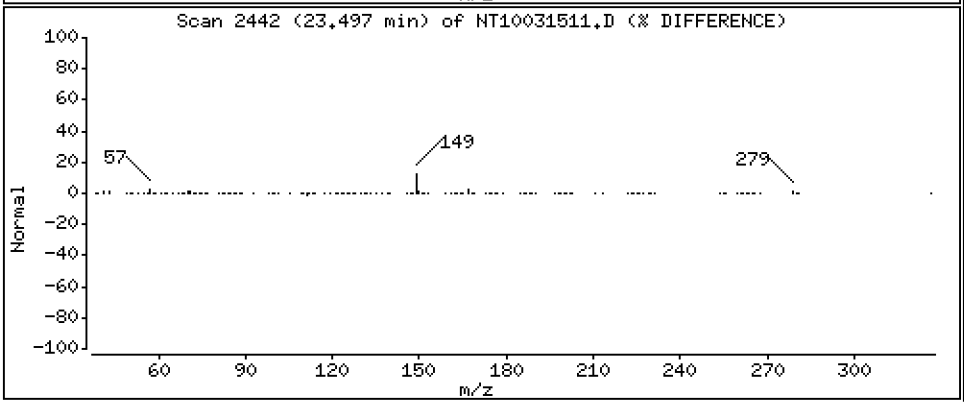
71 Chrysene

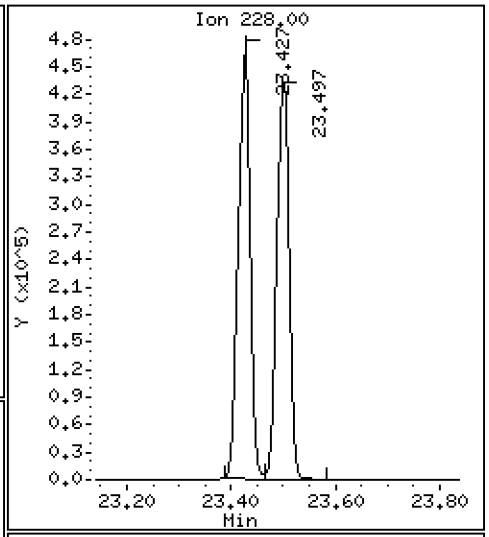
Concentration: 4.510 ug/mL

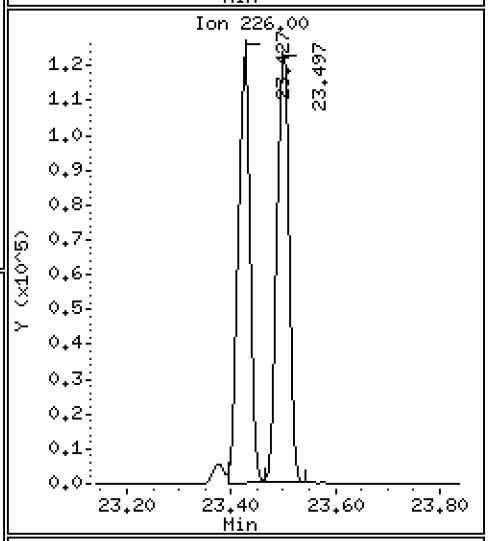


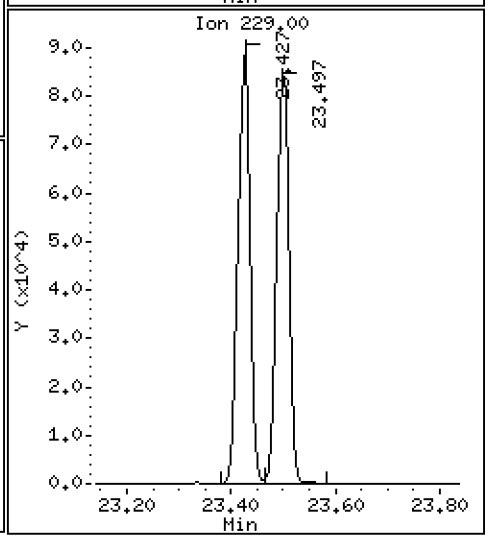












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

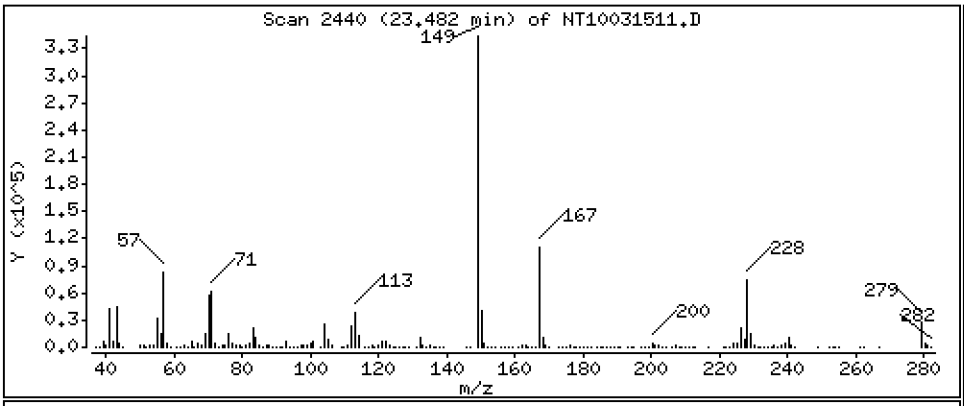
Operator: VTS

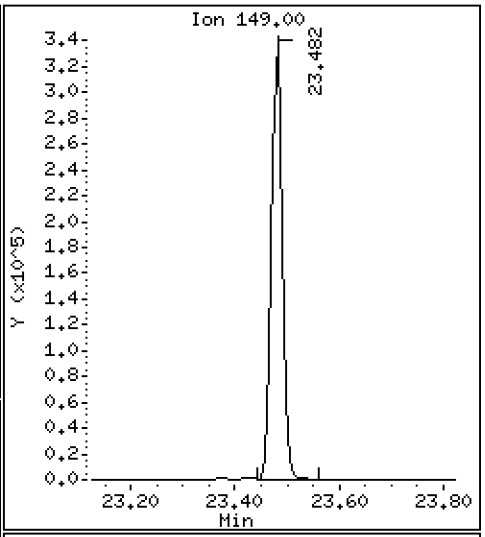
Column phase: ZB-5msi

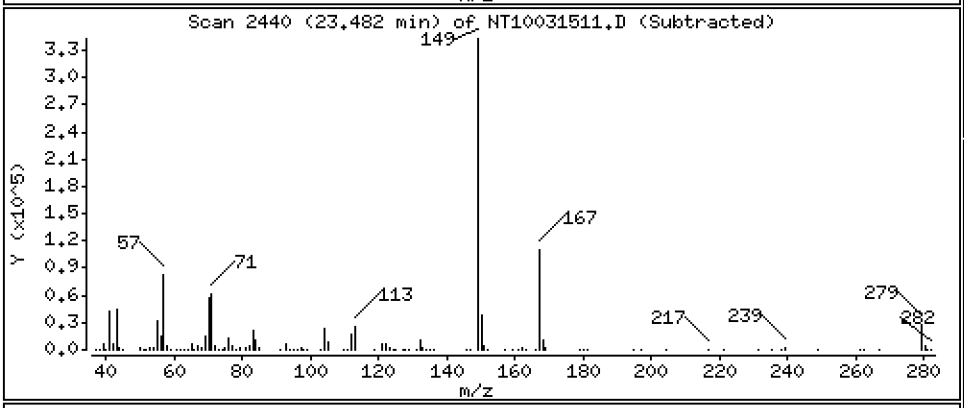
Column diameter: 0.25

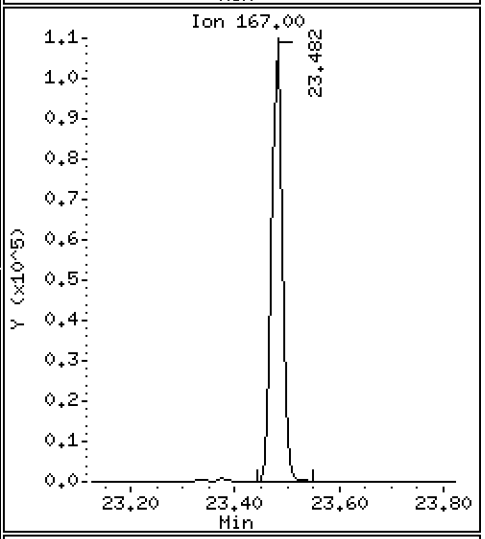
72 bis(2-Ethylhexyl)phthalate

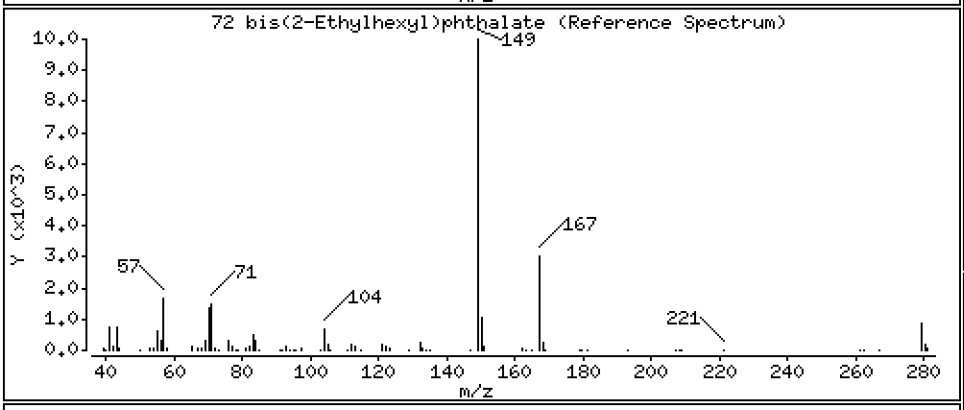
Concentration: 4.680 ug/mL

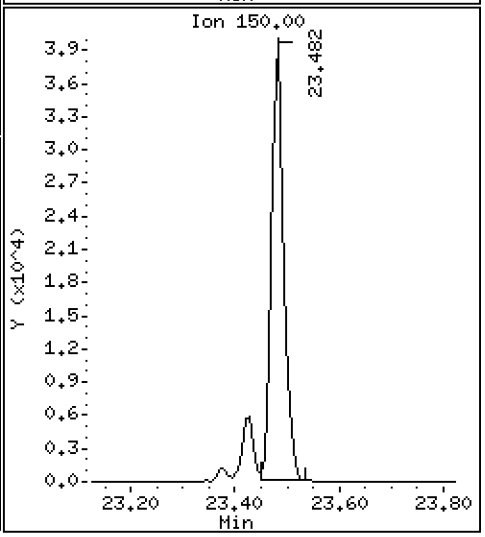


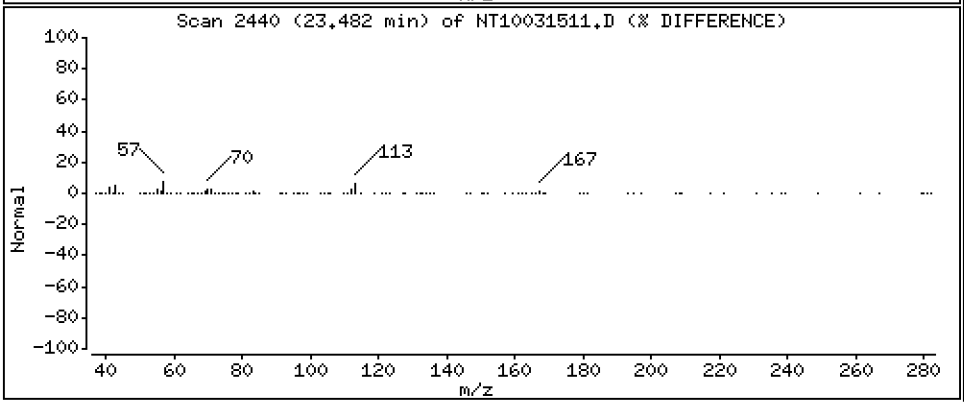












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

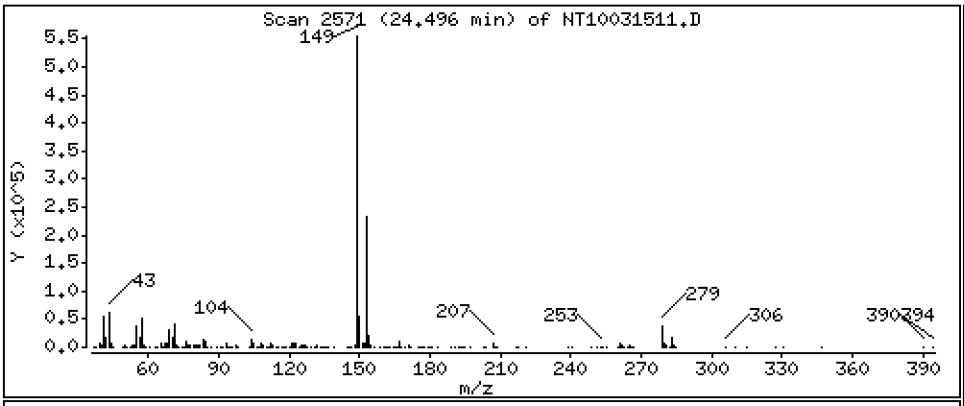
Operator: VTS

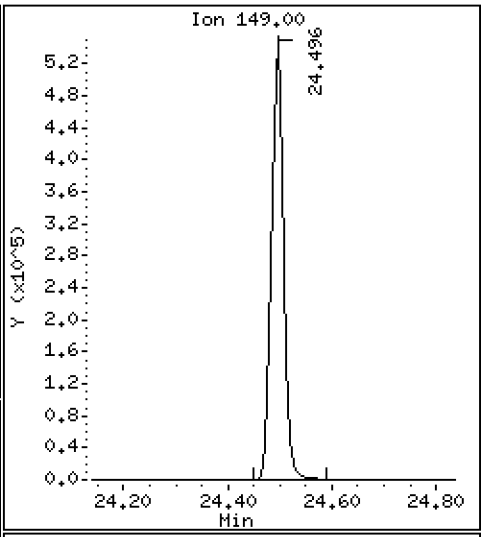
Column phase: ZB-5msi

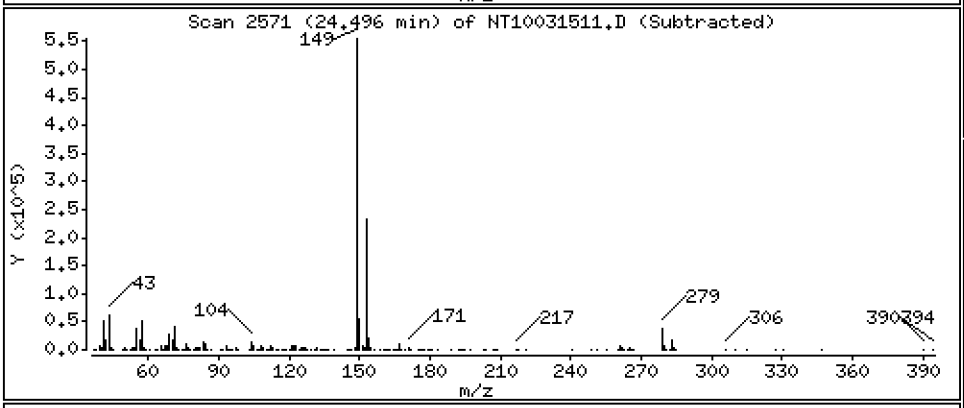
Column diameter: 0.25

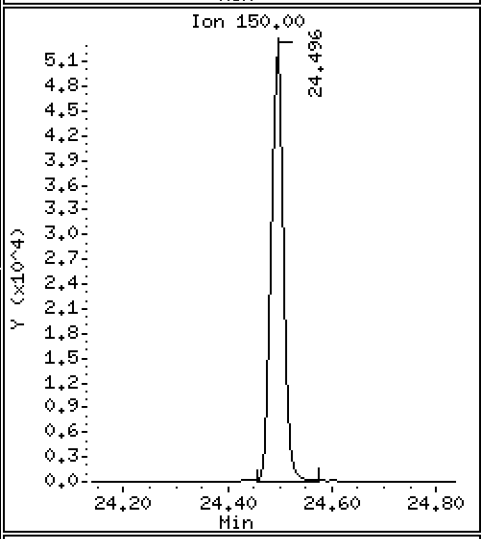
73 Di-n-octylphthalate

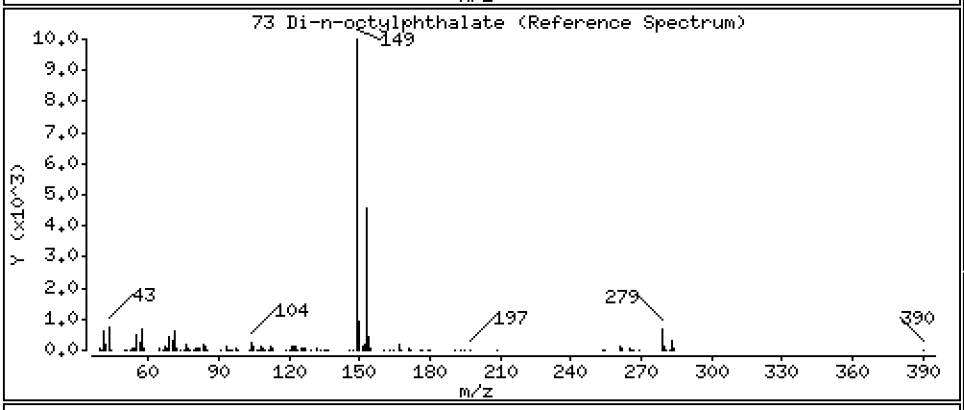
Concentration: 4.947 ug/mL

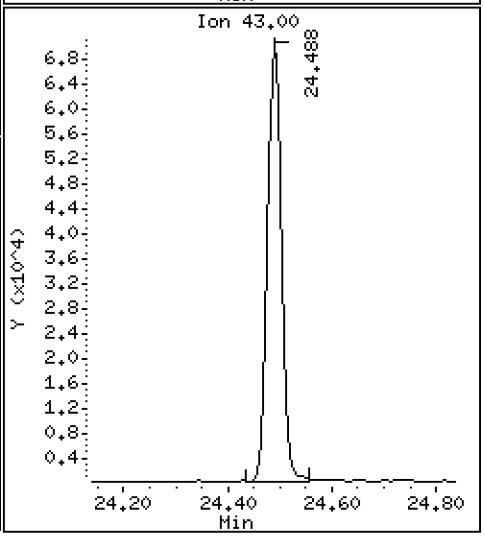


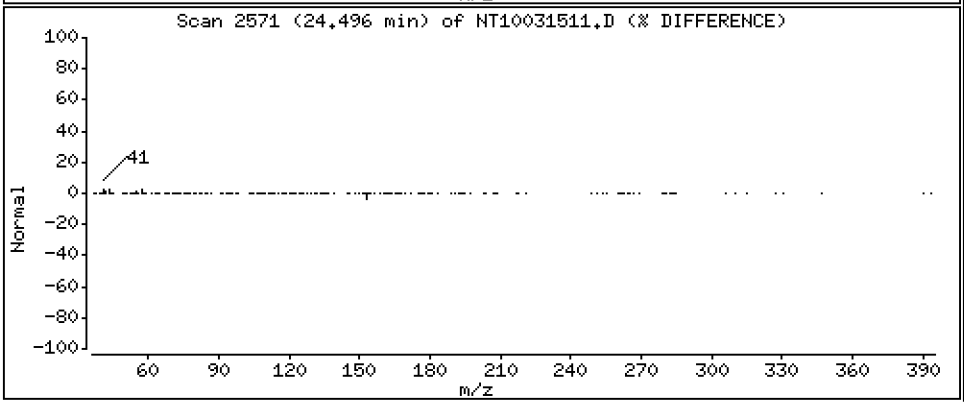












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

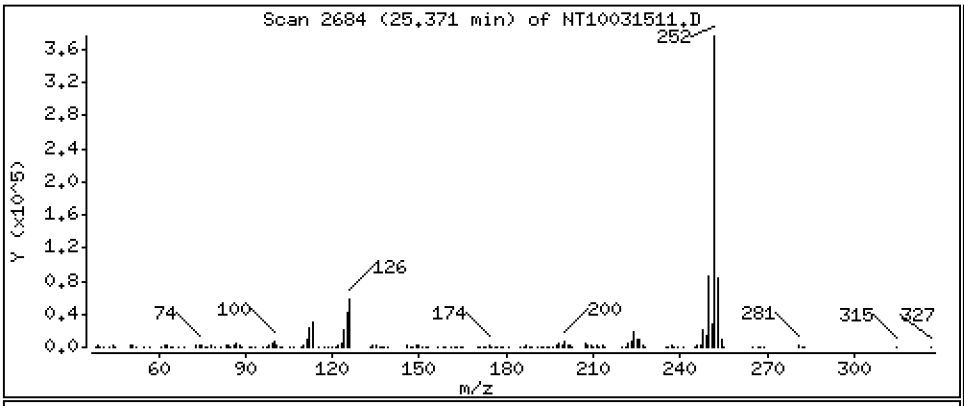
Operator: VTS

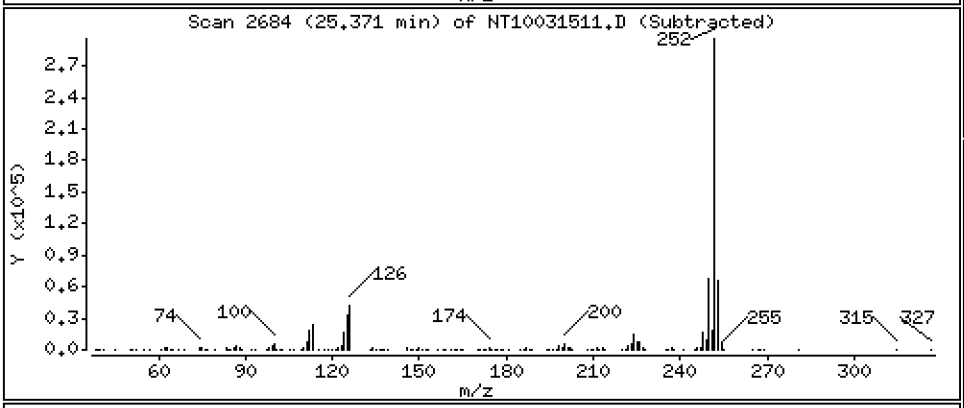
Column phase: ZB-5msi

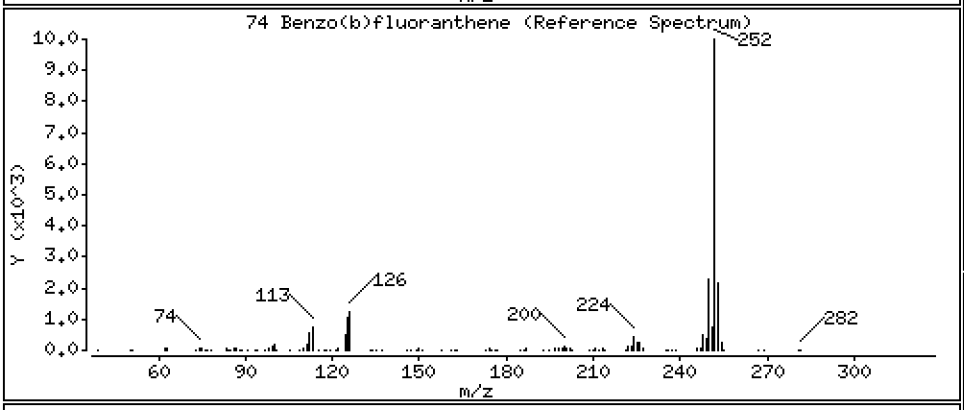
Column diameter: 0.25

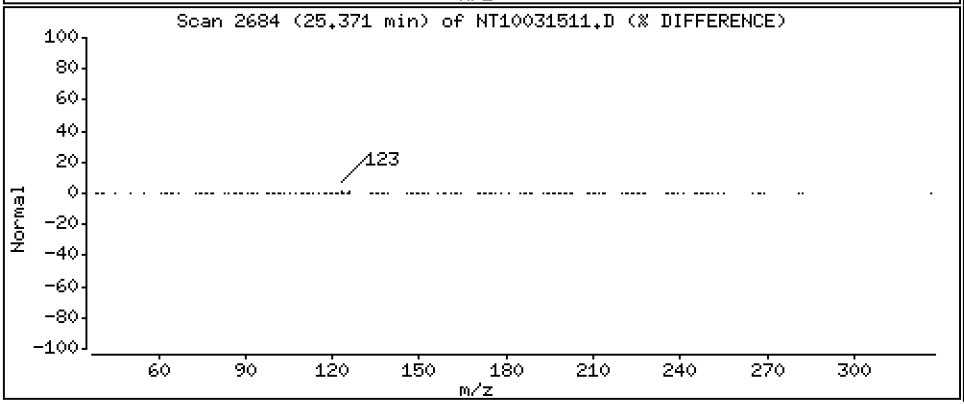
74 Benzo(b)fluoranthene

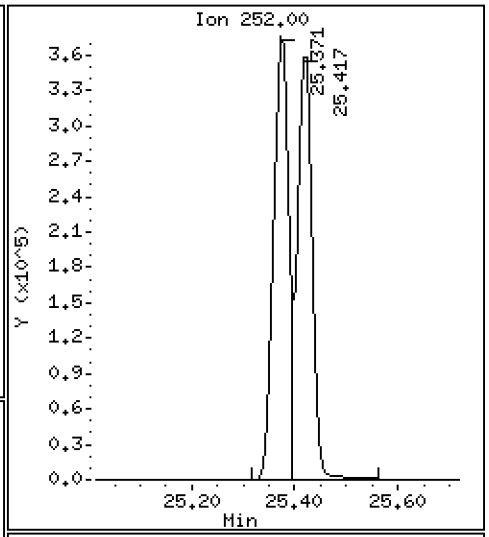
Concentration: 4.602 ug/mL

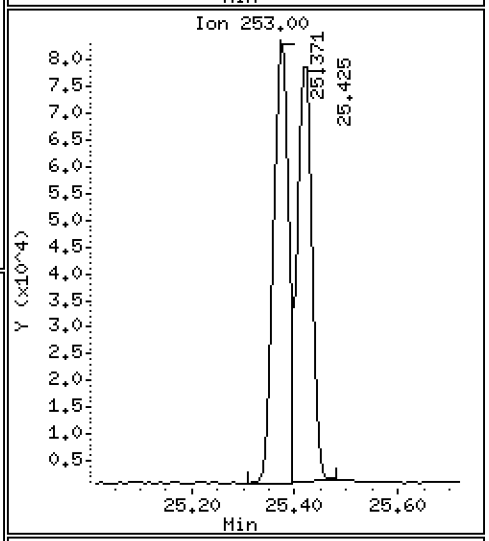


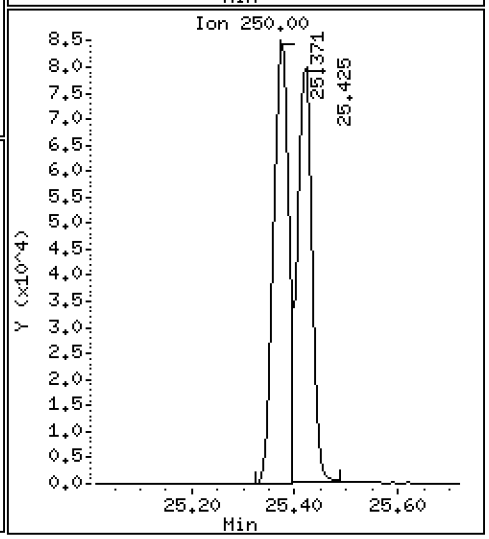












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

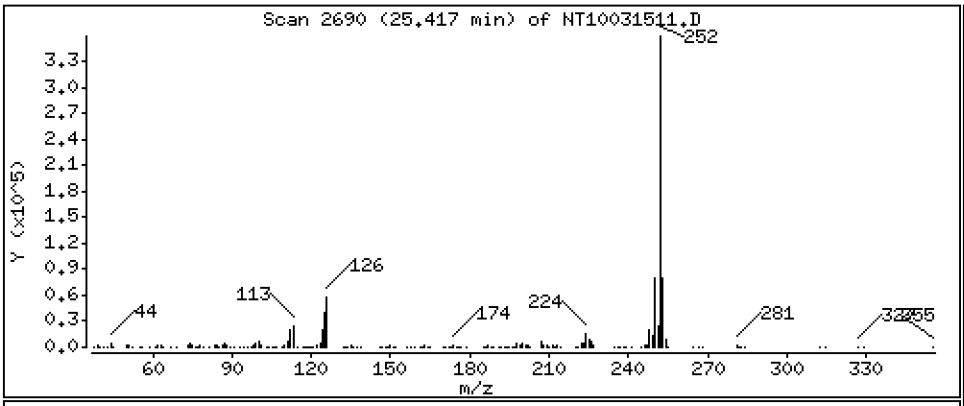
Operator: VTS

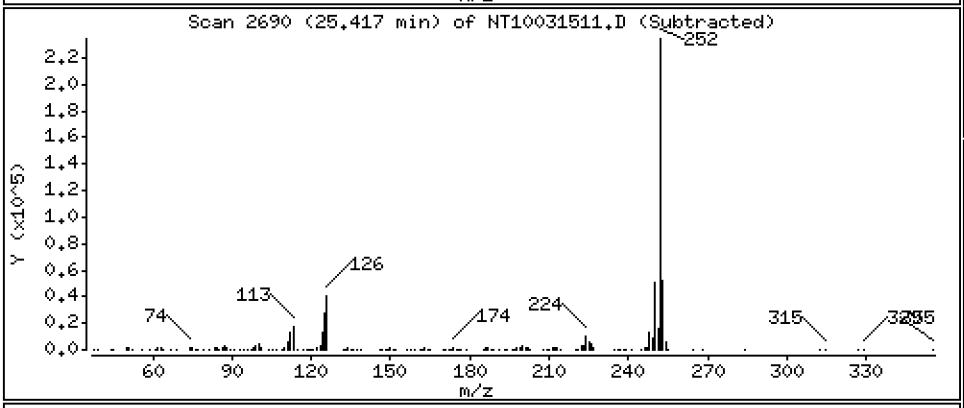
Column phase: ZB-5msi

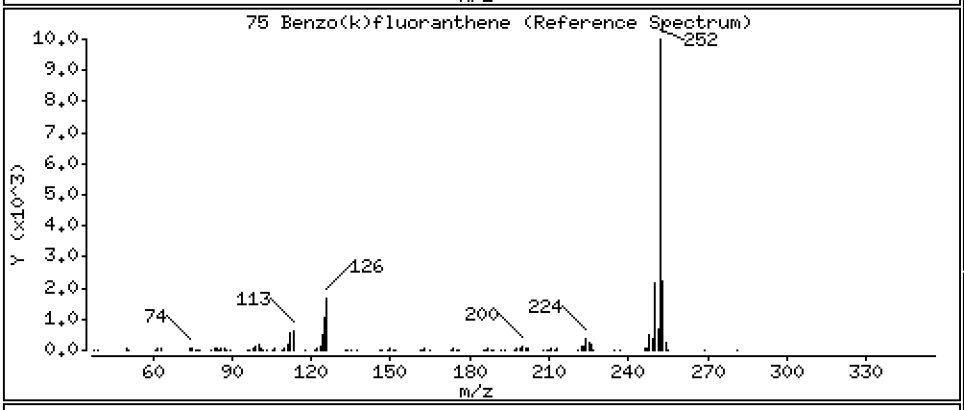
Column diameter: 0.25

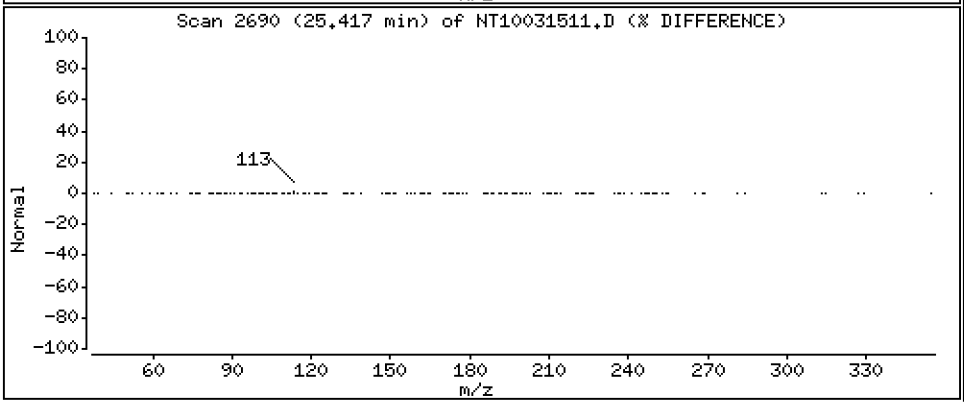
75 Benzo(k)fluoranthene

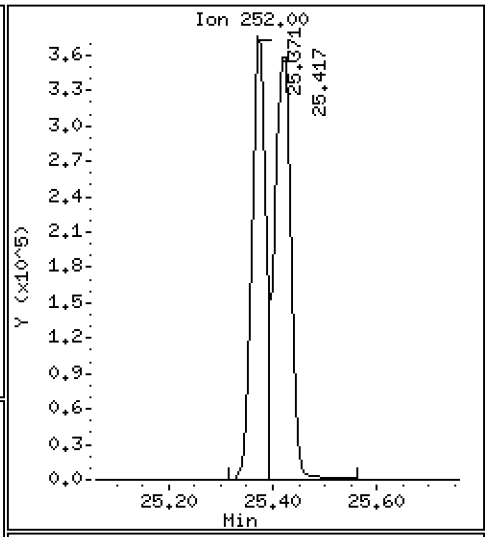
Concentration: 4.898 ug/mL

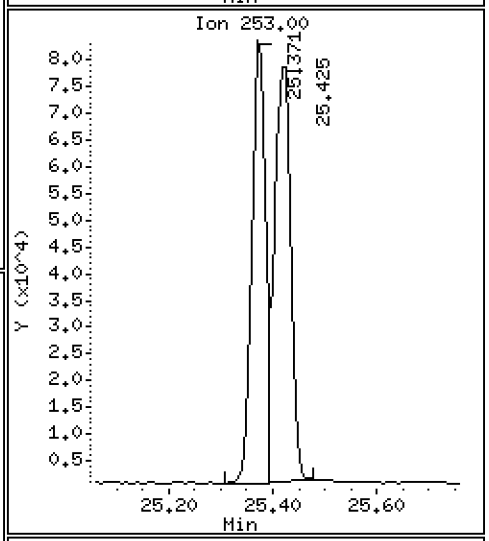


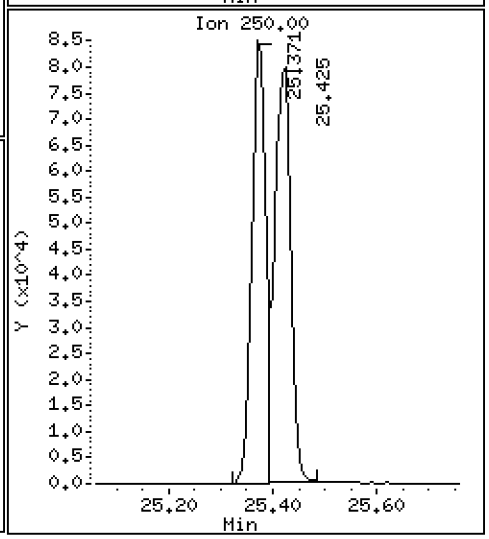












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

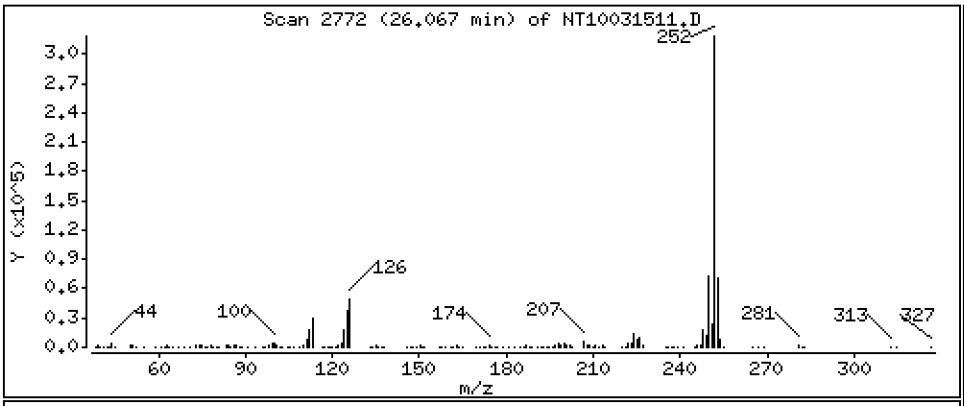
Operator: VTS

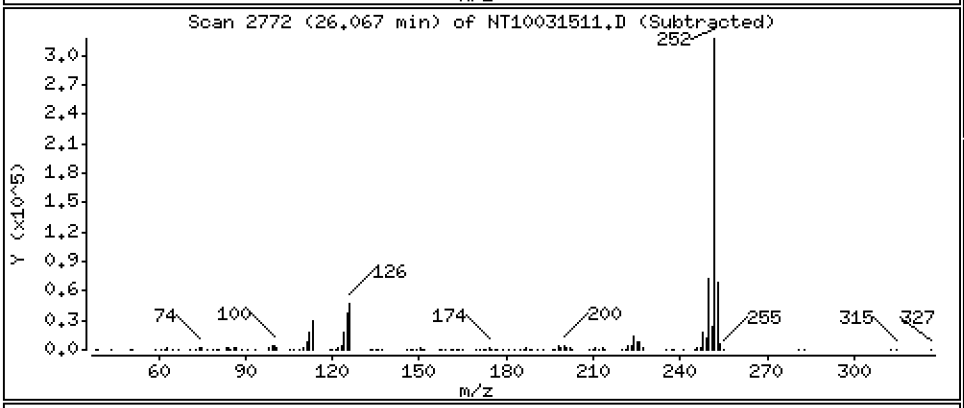
Column phase: ZB-5msi

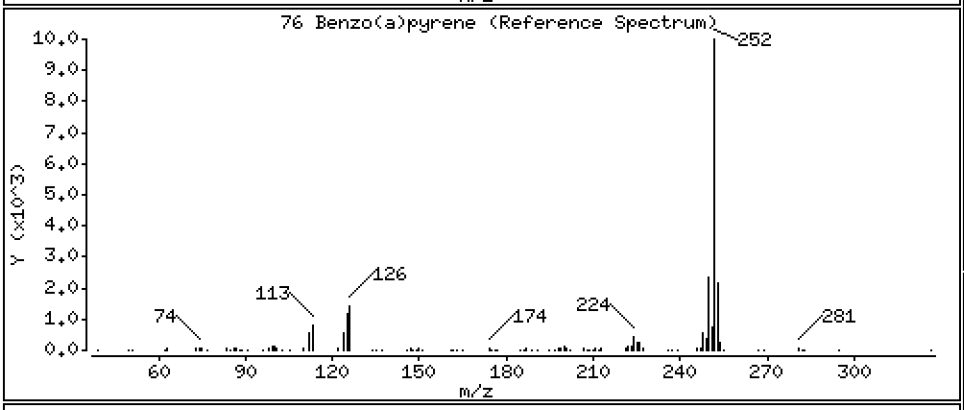
Column diameter: 0.25

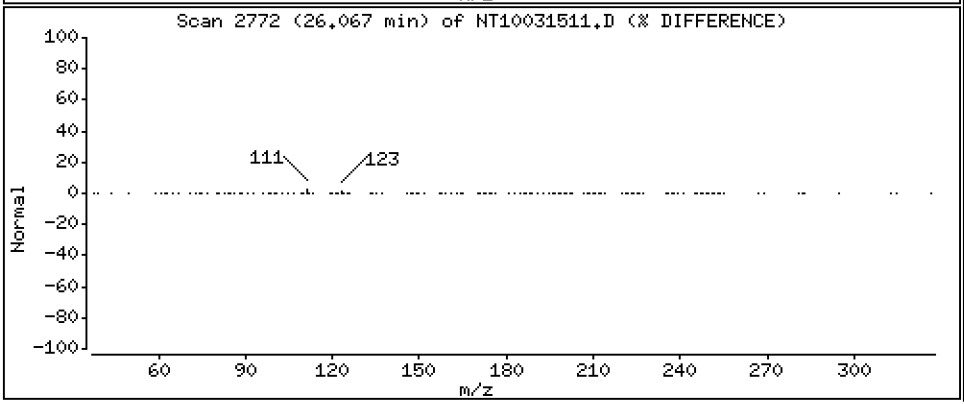
76 Benzo(a)pyrene

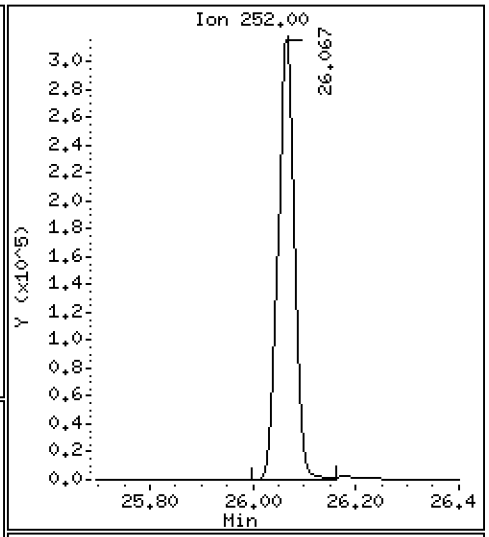
Concentration: 4.873 ug/mL

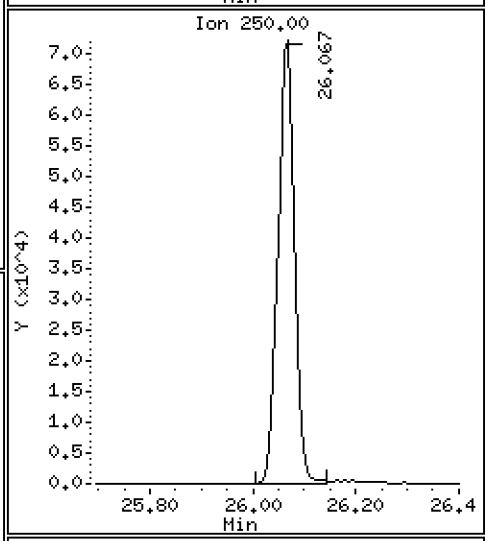


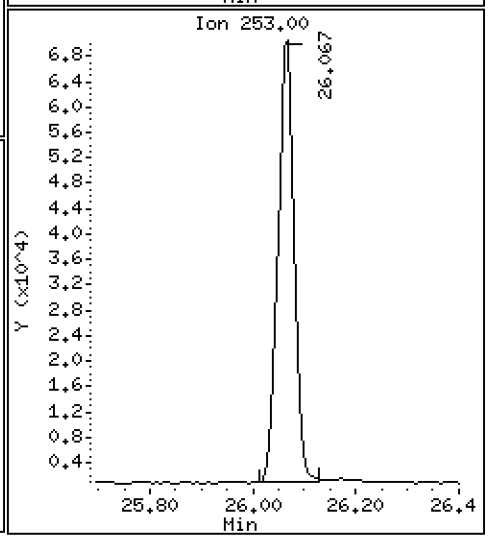












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

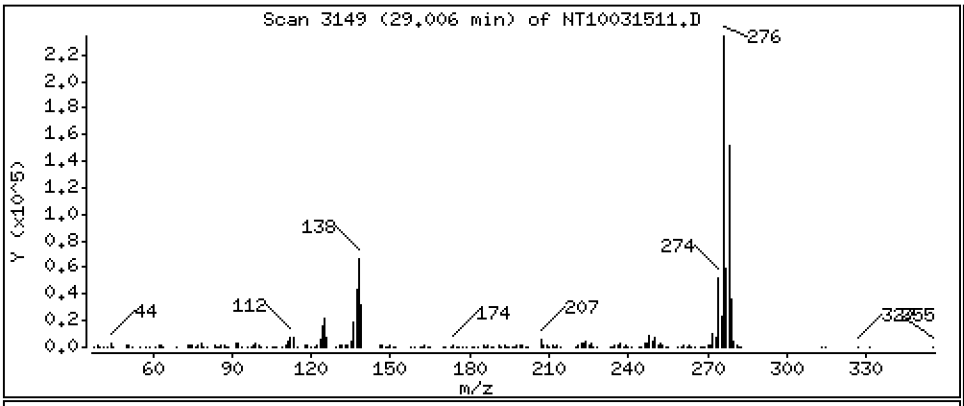
Operator: VTS

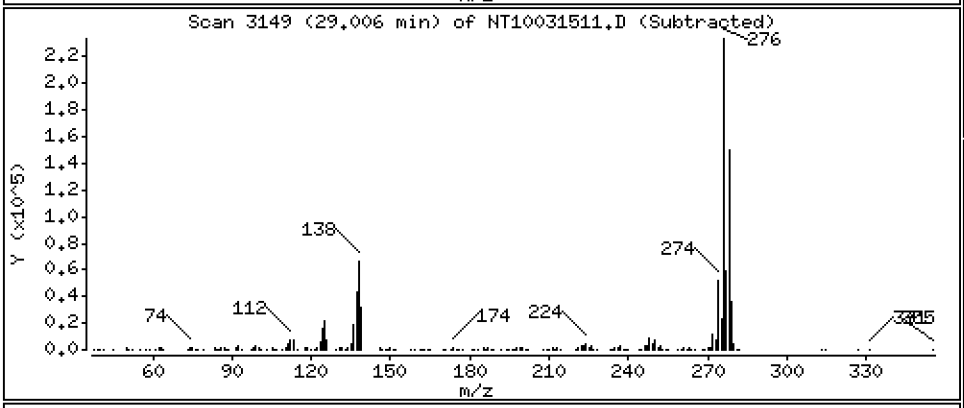
Column phase: ZB-5msi

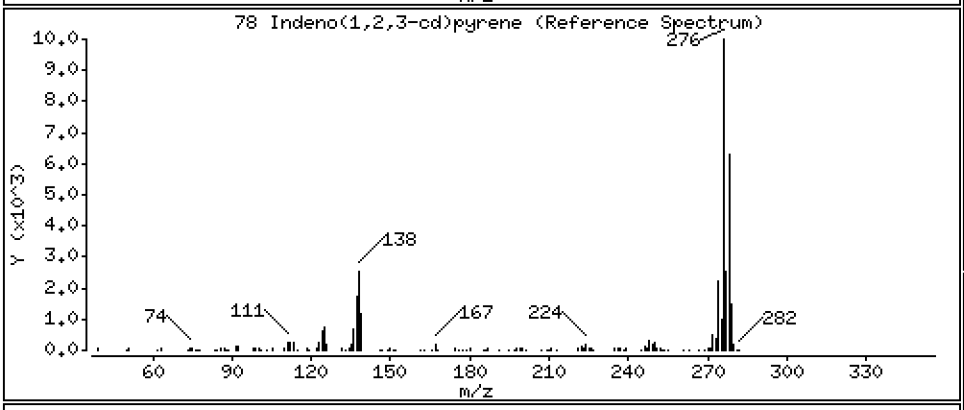
Column diameter: 0.25

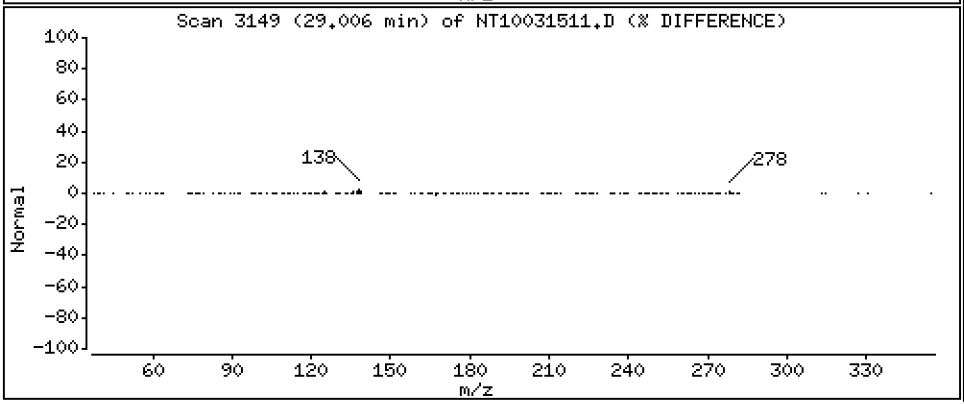
78 Indeno(1,2,3-cd)pyrene

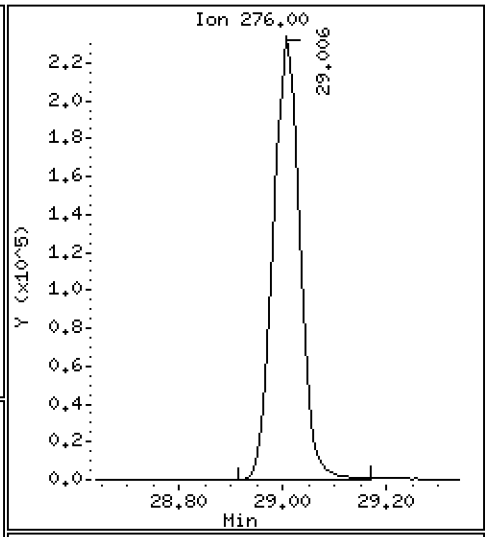
Concentration: 4.577 ug/mL

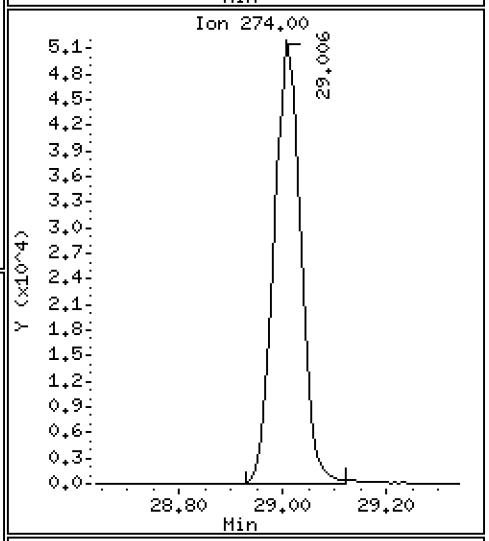


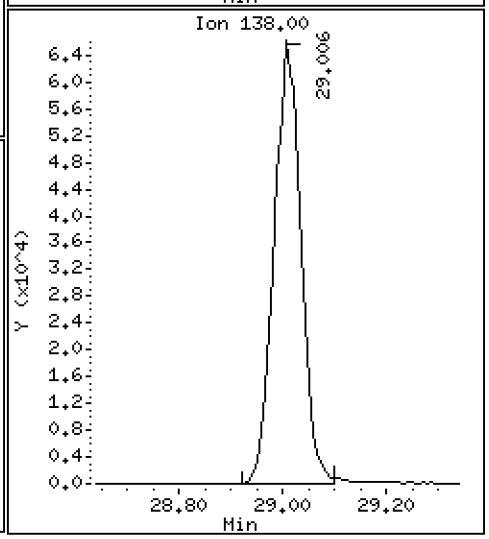












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

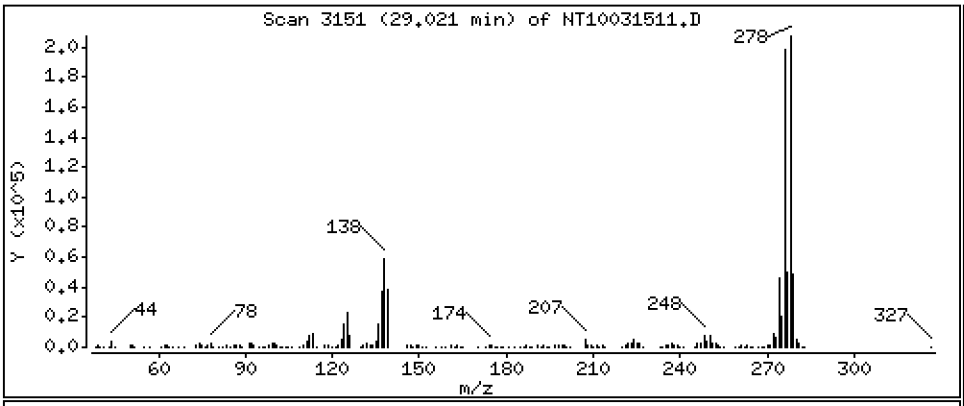
Operator: VTS

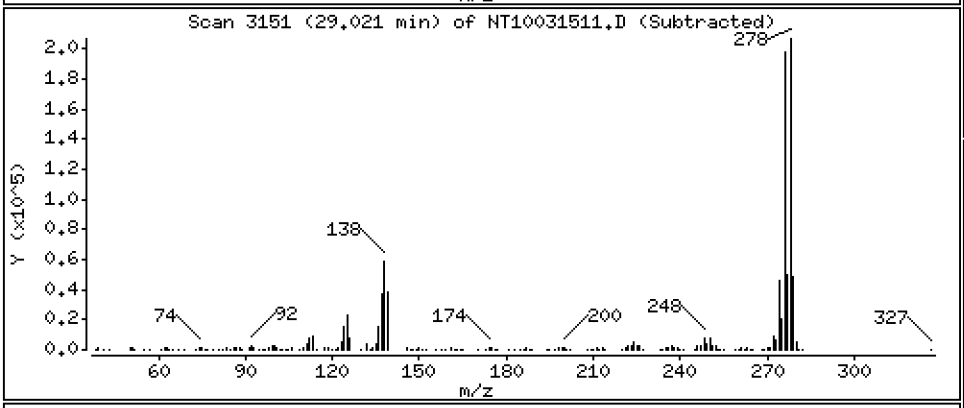
Column phase: ZB-5msi

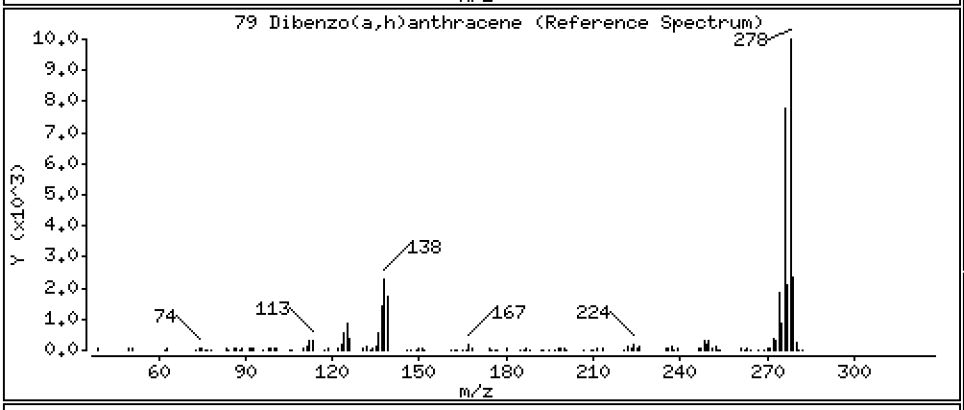
Column diameter: 0.25

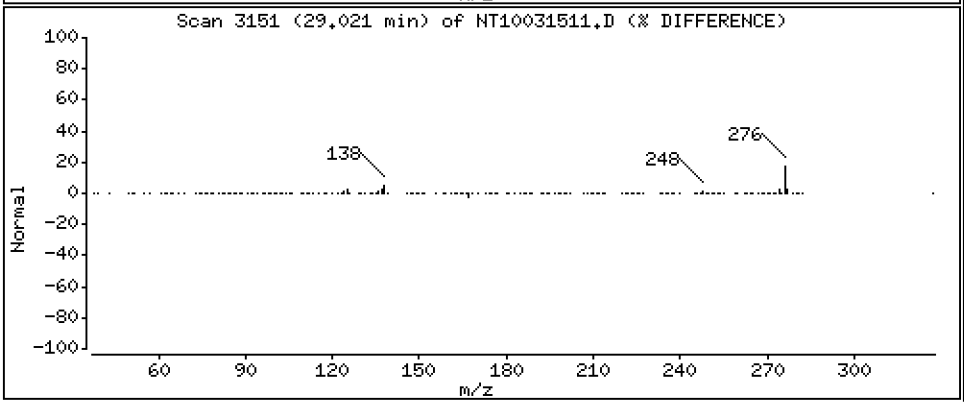
79 Dibenzo(a,h)anthracene

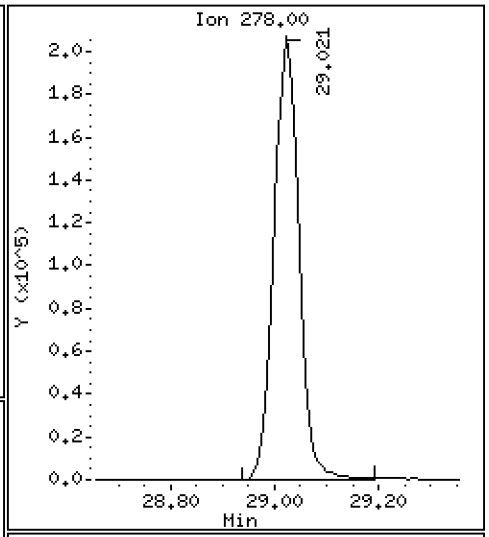
Concentration: 4.547 ug/mL

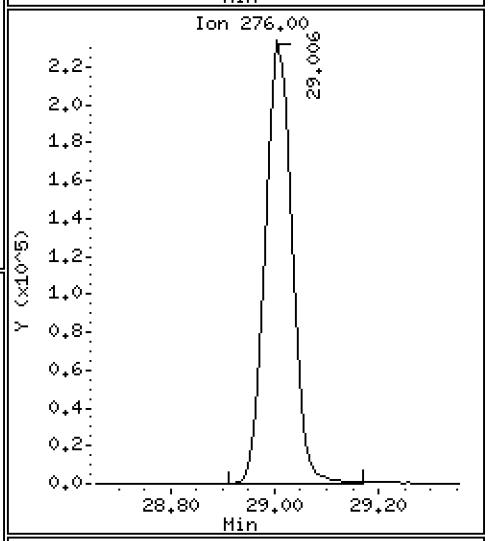


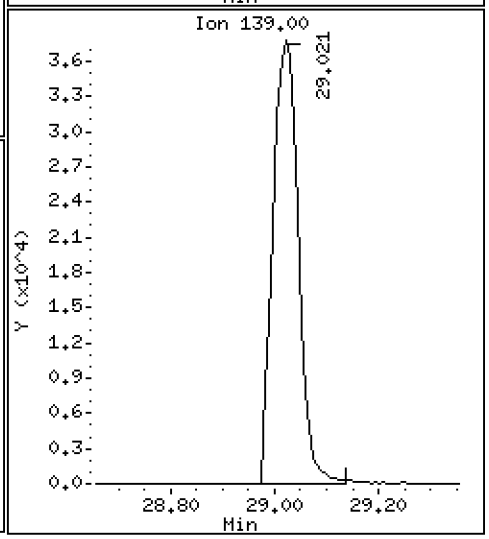












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

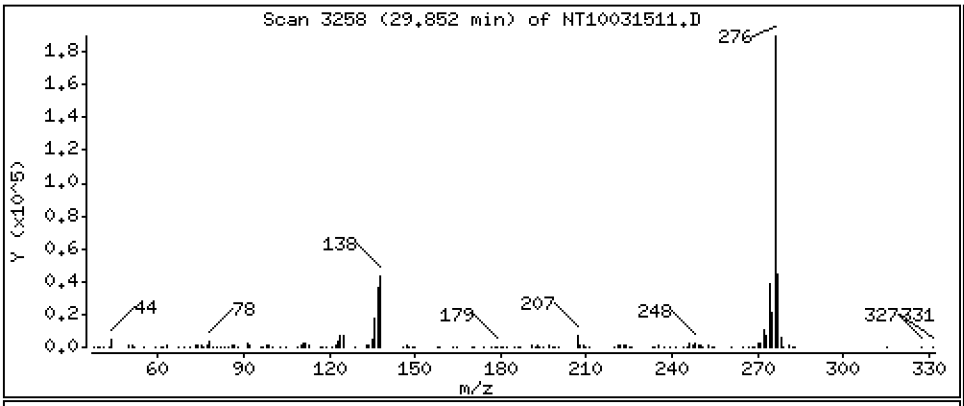
Operator: VTS

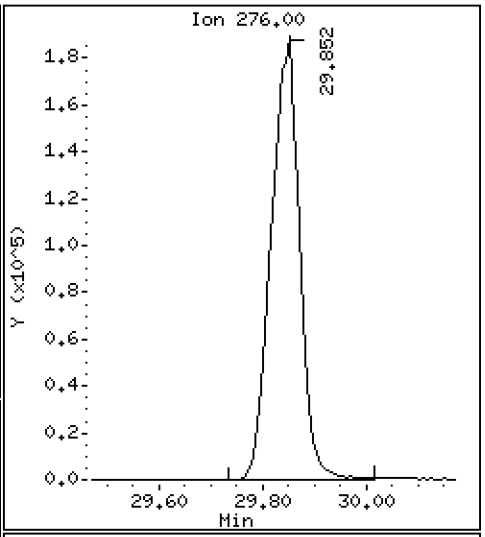
Column phase: ZB-5msi

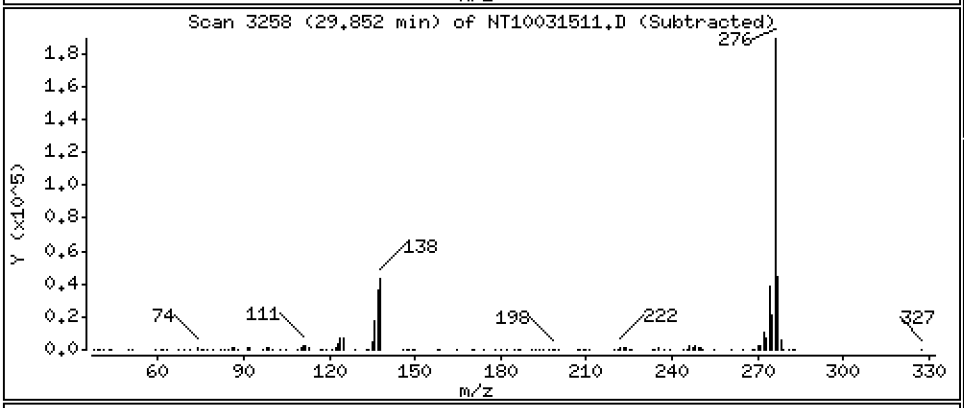
Column diameter: 0.25

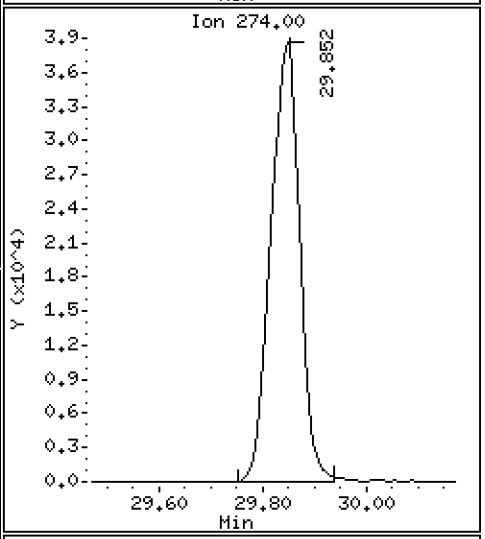
80 Benzo(g,h,i)perylene

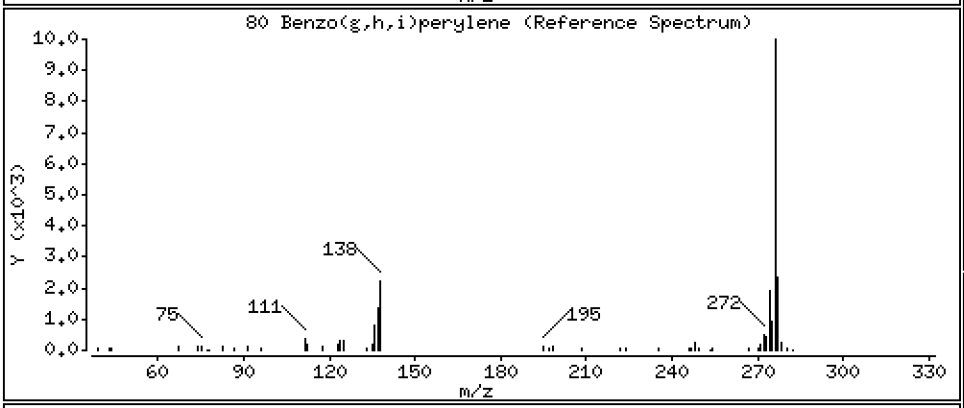
Concentration: 4.590 ug/mL

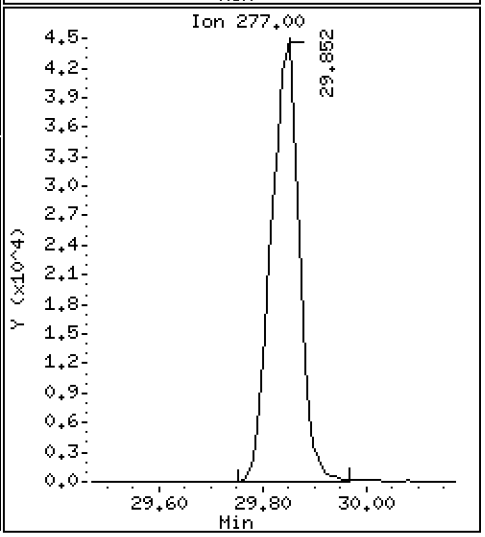


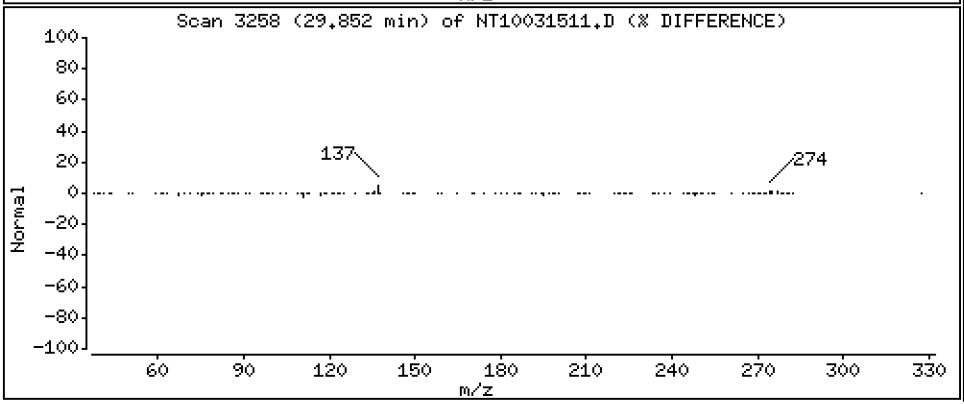












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

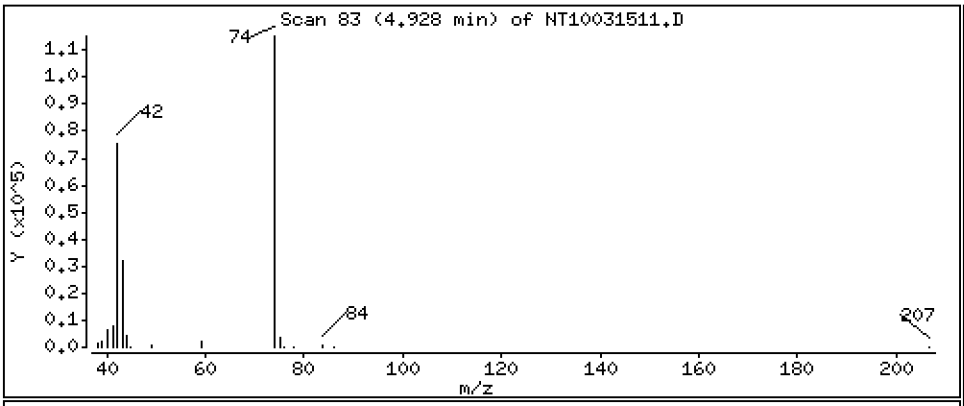
Operator: VTS

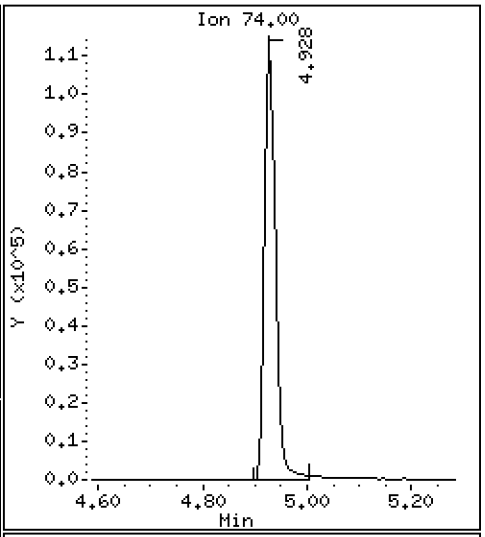
Column phase: ZB-5msi

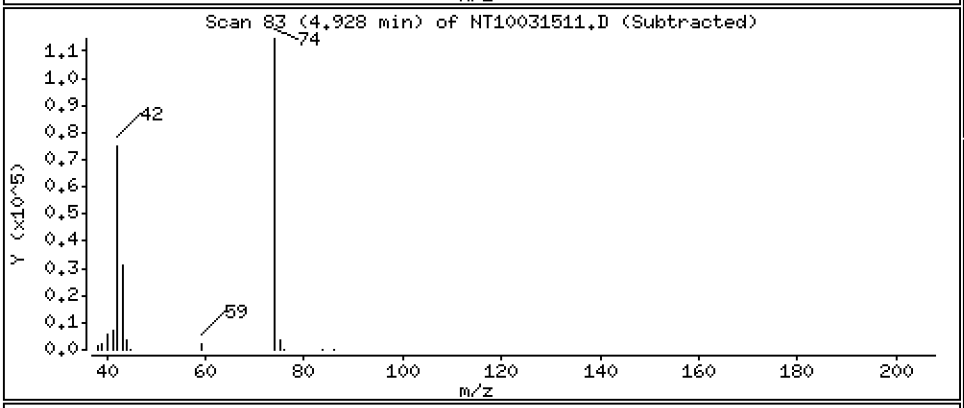
Column diameter: 0.25

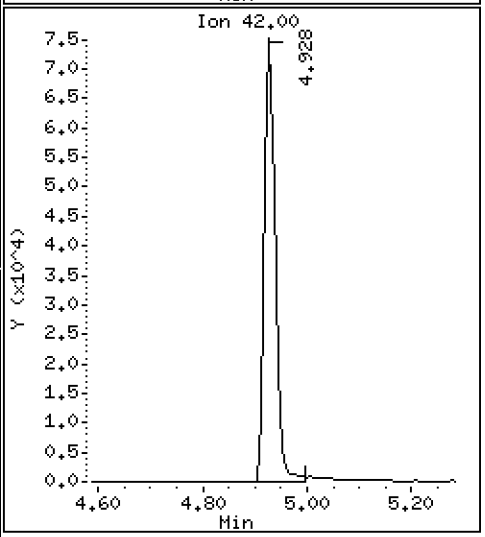
90 N-Nitrosodimethylamine

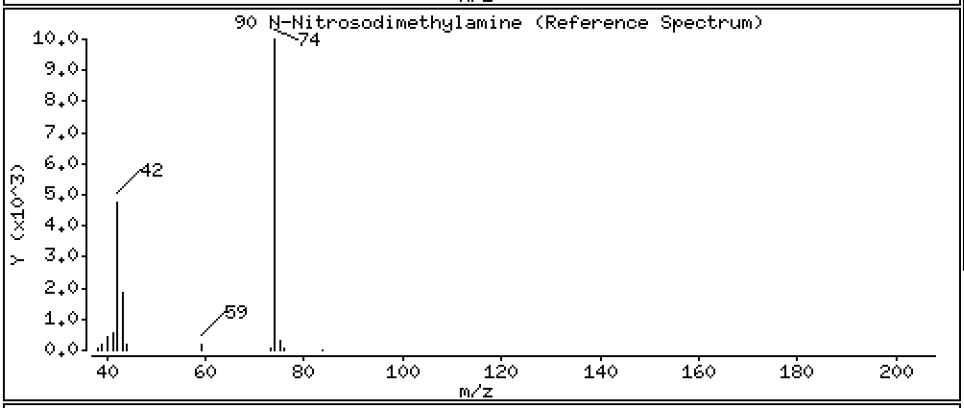
Concentration: 5.194 ug/mL

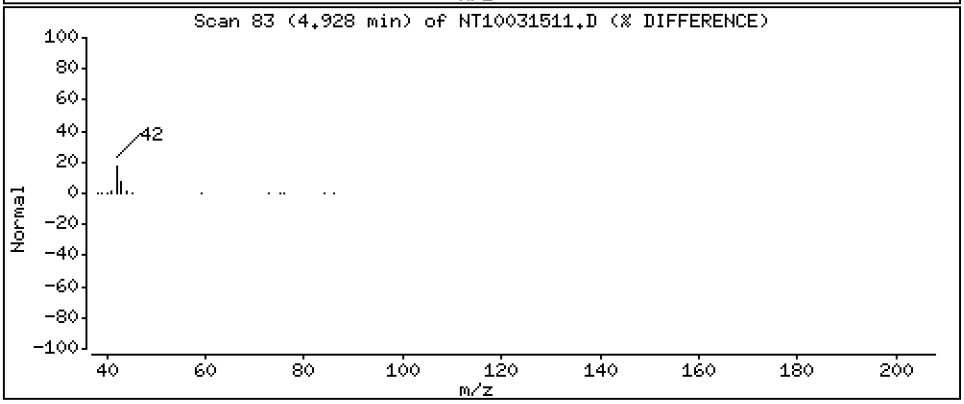












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

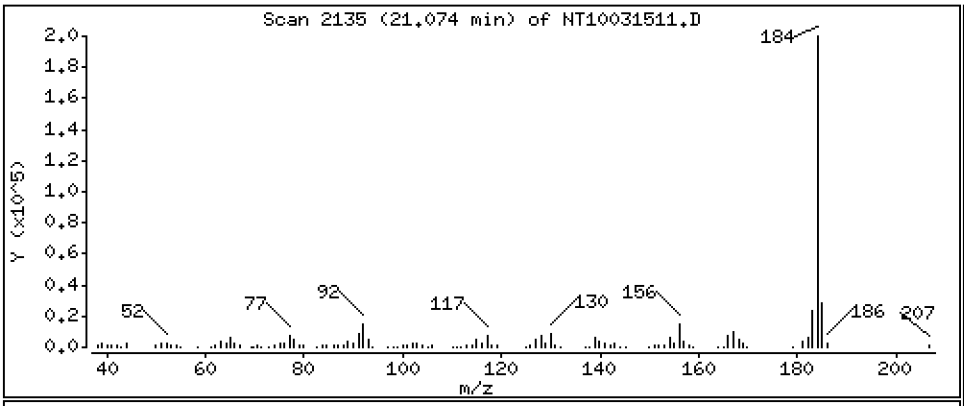
Operator: VTS

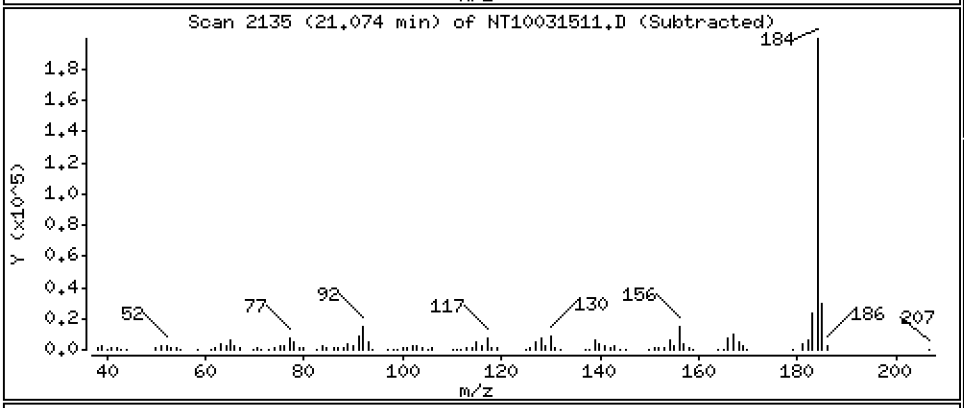
Column phase: ZB-5msi

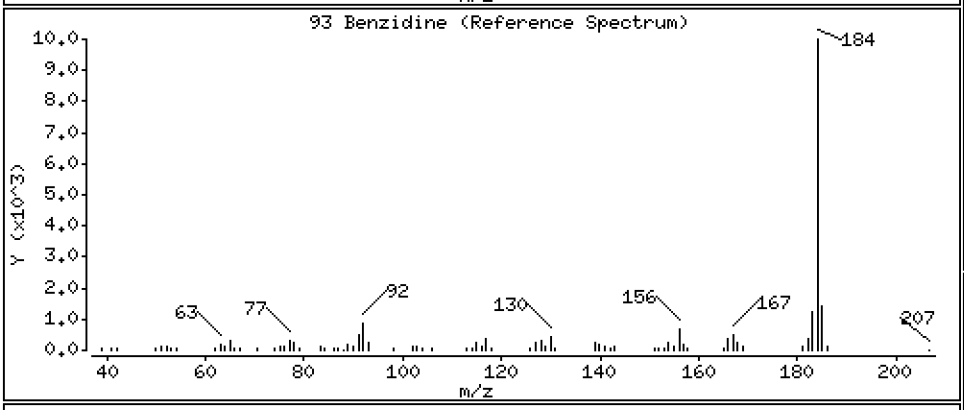
Column diameter: 0.25

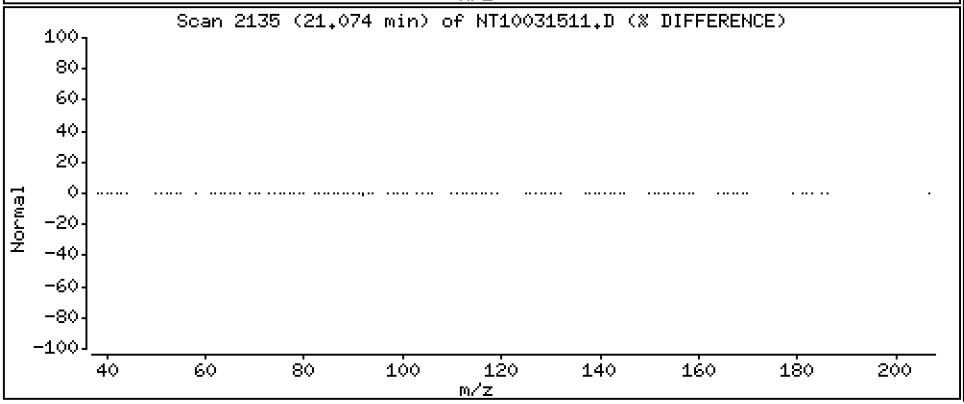
93 Benzidine

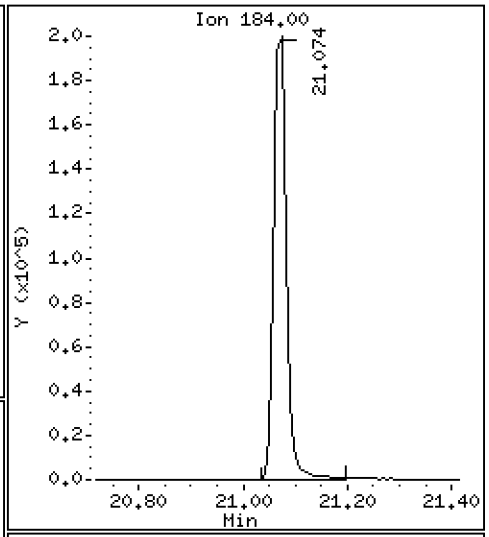
Concentration: 4.380 ug/mL

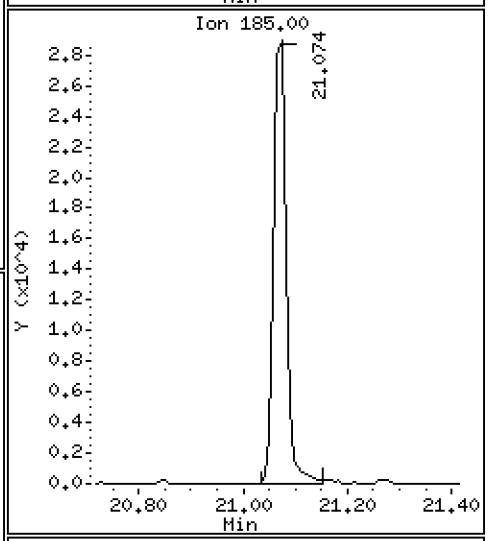


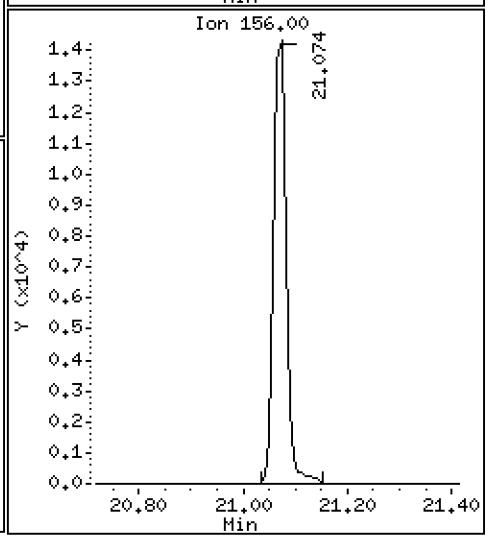












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

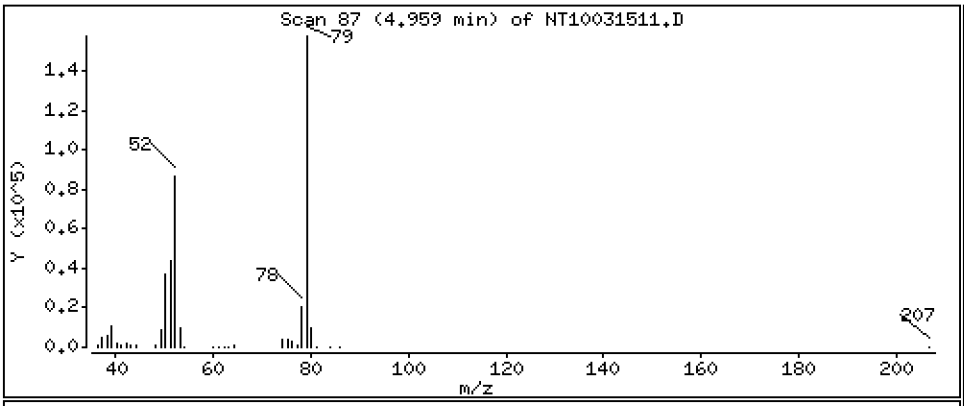
Operator: VTS

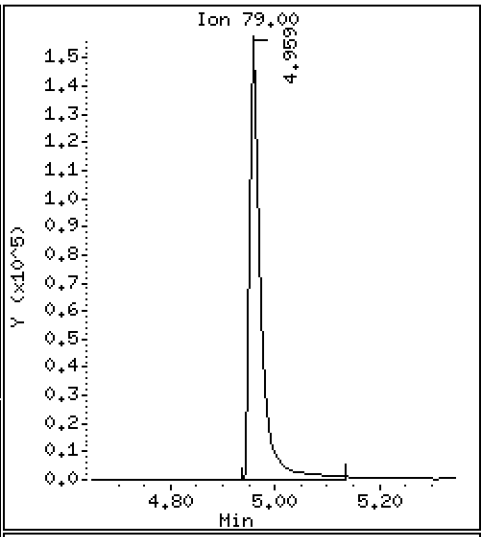
Column phase: ZB-5msi

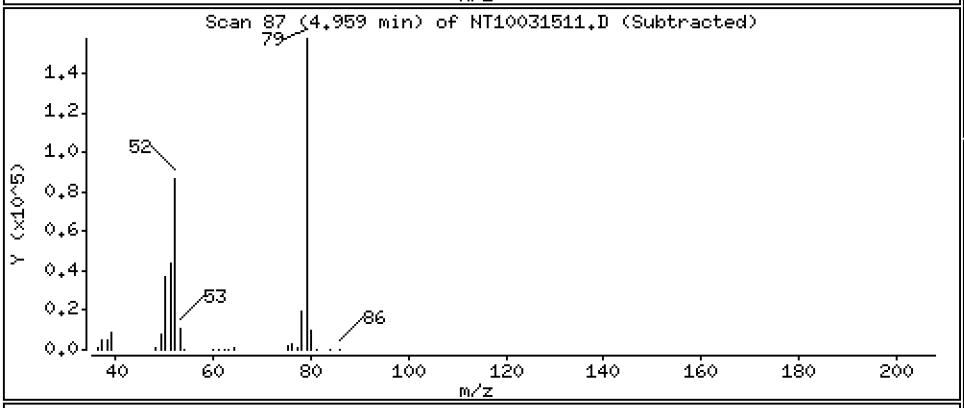
Column diameter: 0.25

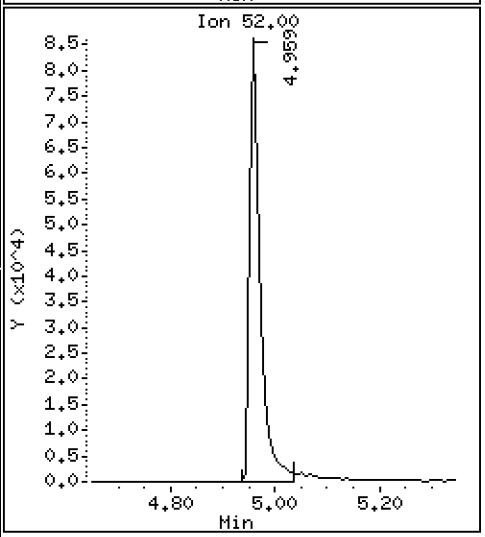
103 Pyridine

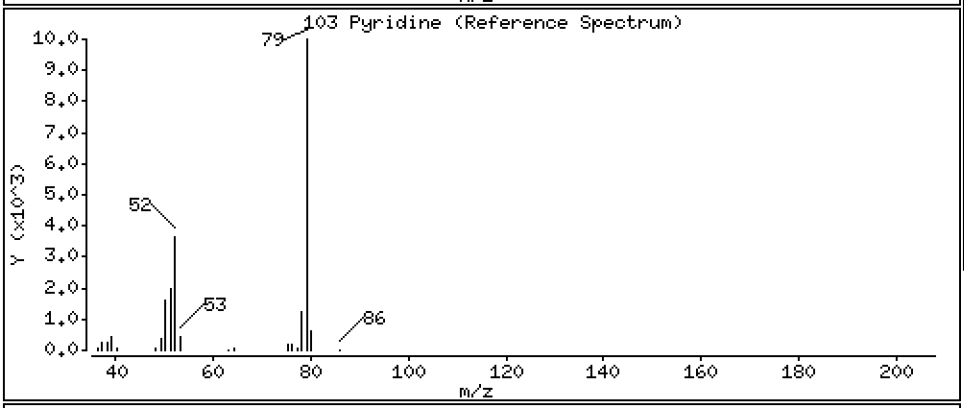
Concentration: 5.337 ug/mL

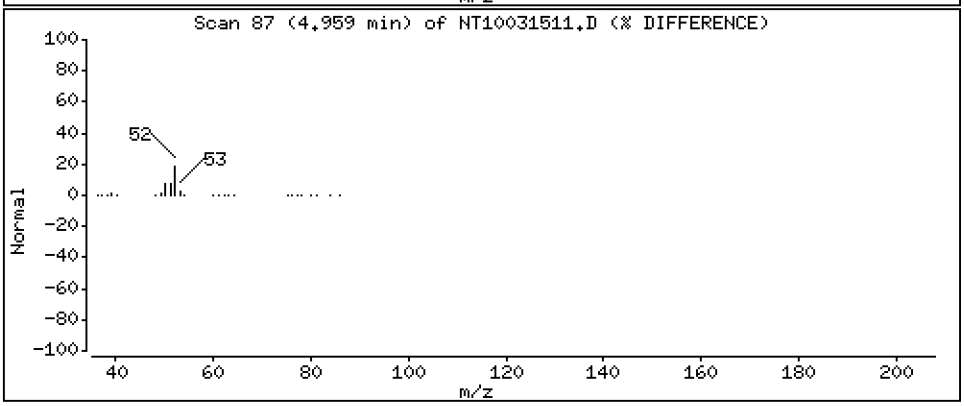












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

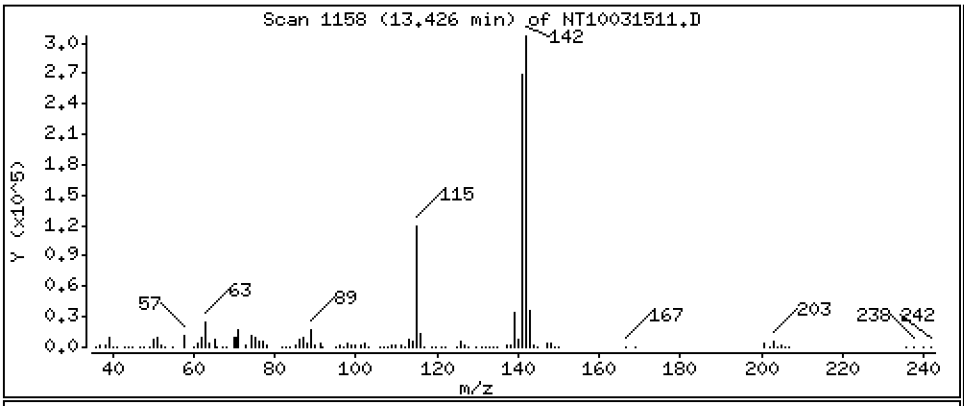
Operator: VTS

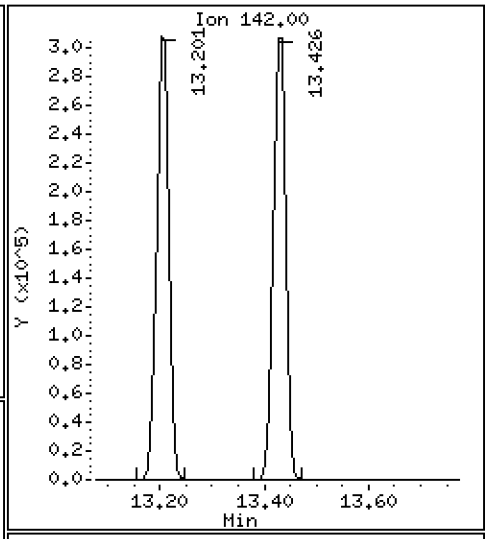
Column phase: ZB-5msi

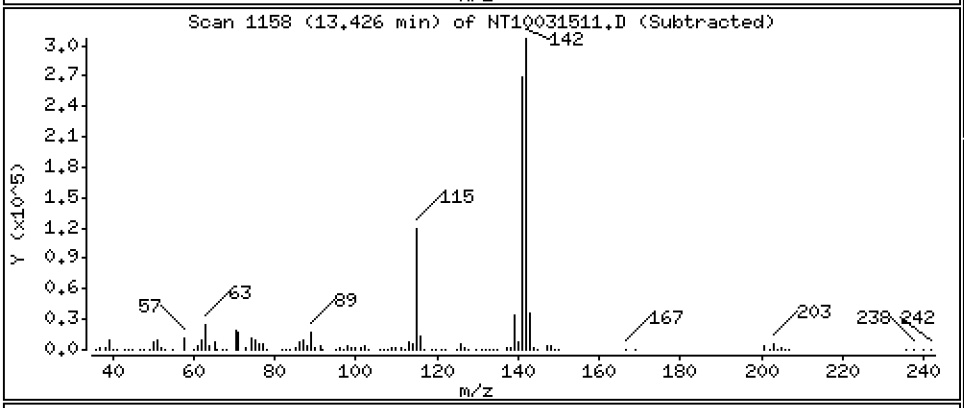
Column diameter: 0.25

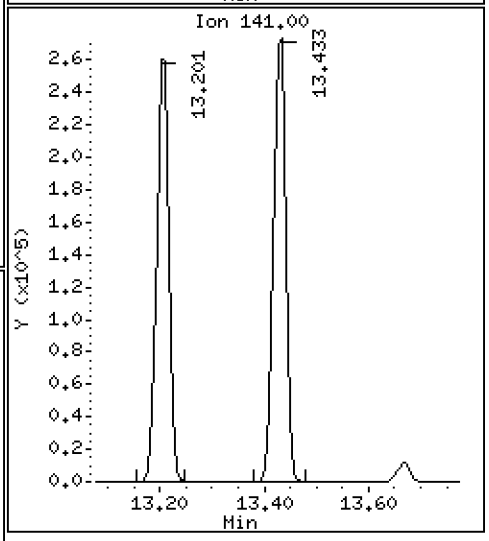
105 1-methylnaphthalene

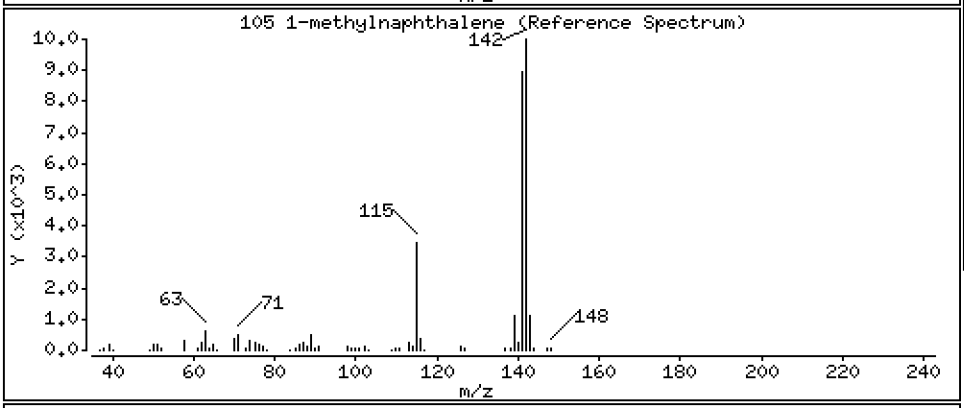
Concentration: 4.875 ug/mL

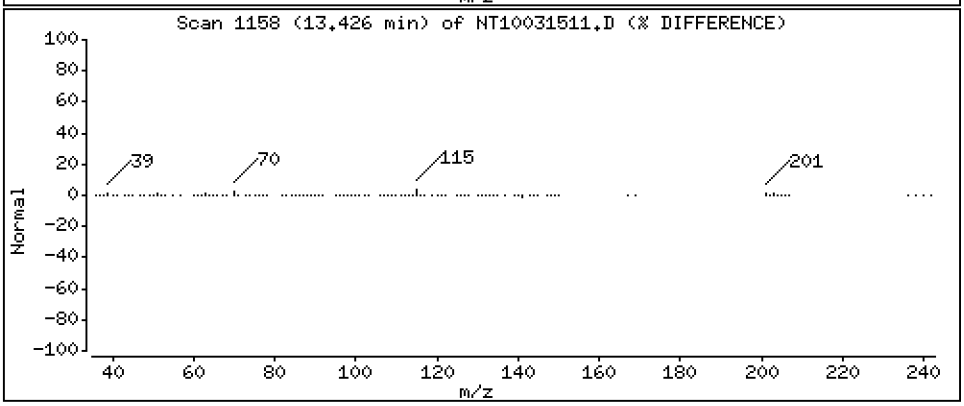












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

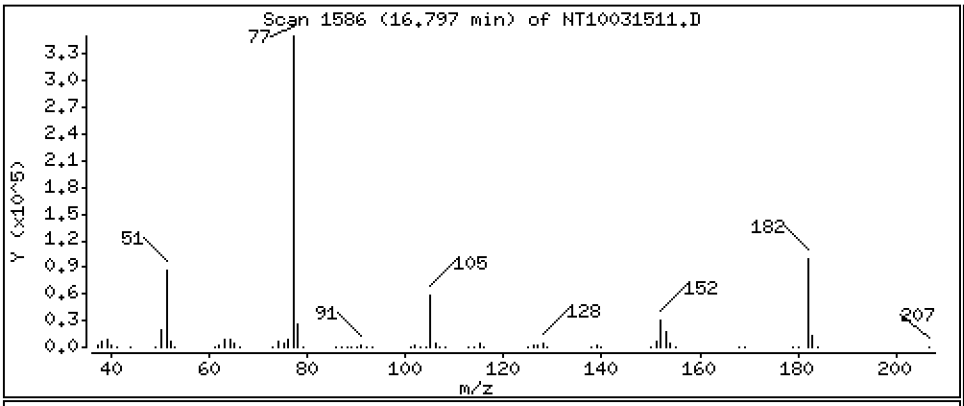
Operator: VTS

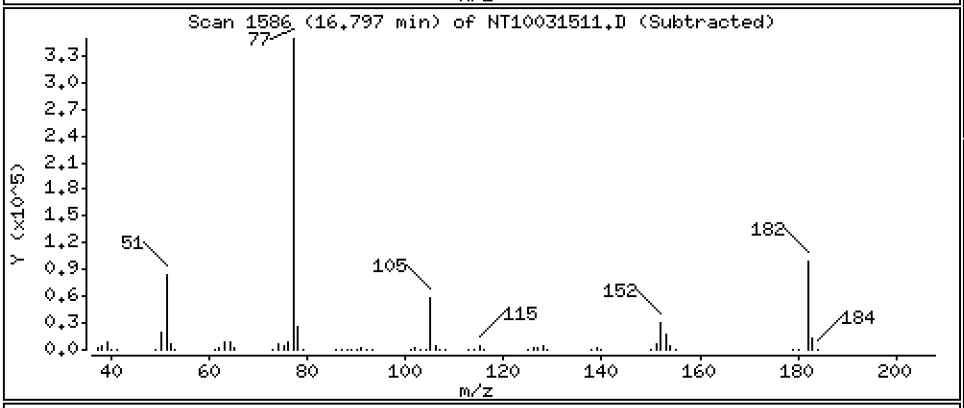
Column phase: ZB-5msi

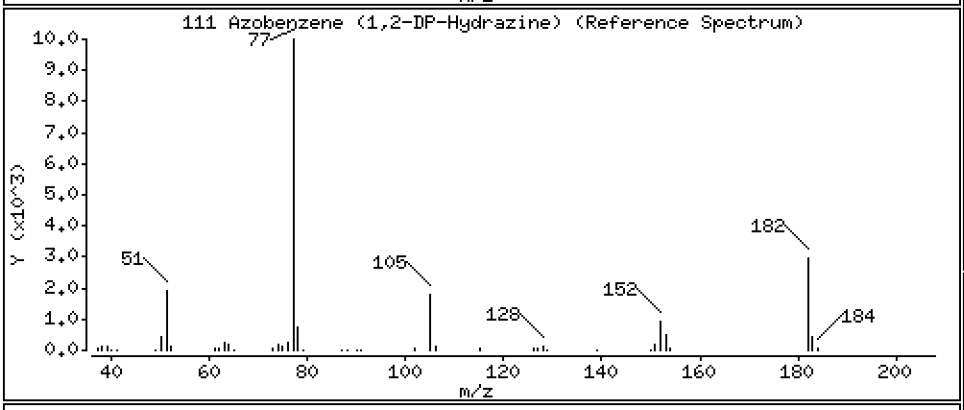
Column diameter: 0.25

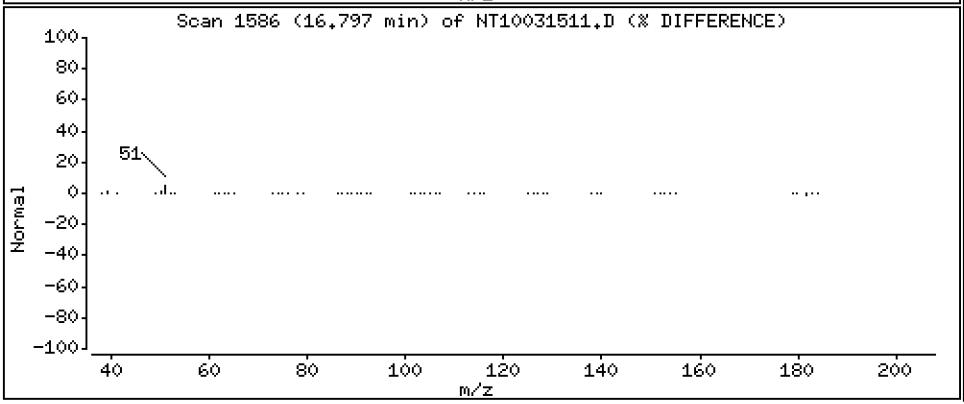
111 Azobenzene (1,2-DP-Hydrazine)

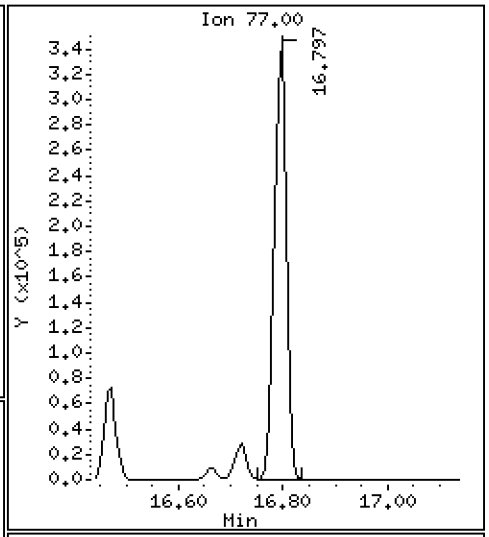
Concentration: 4.937 ug/mL

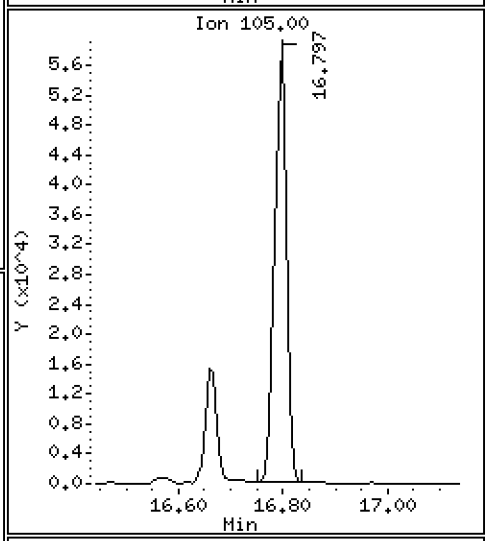


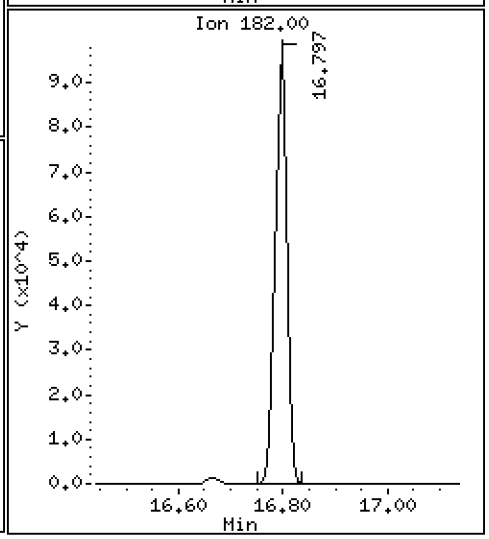












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

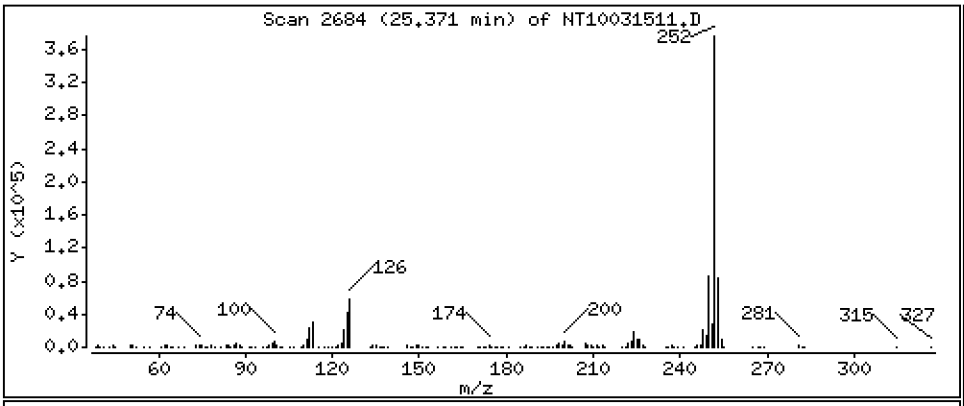
Operator: VTS

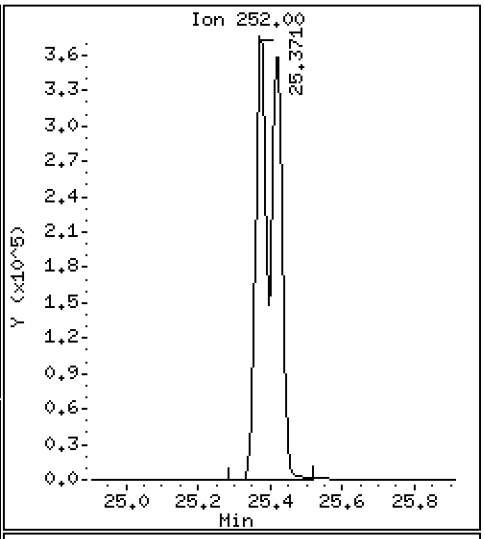
Column phase: ZB-5msi

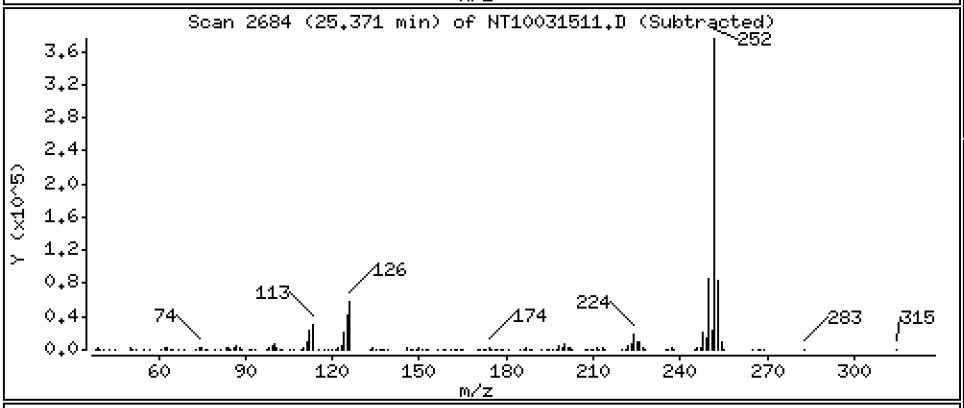
Column diameter: 0.25

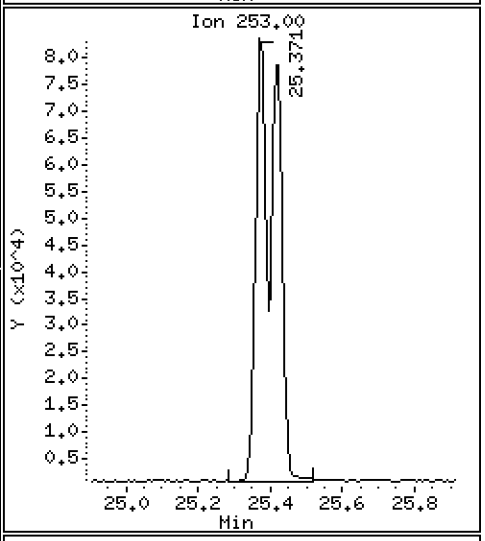
187 Total Benzofluoranthenes

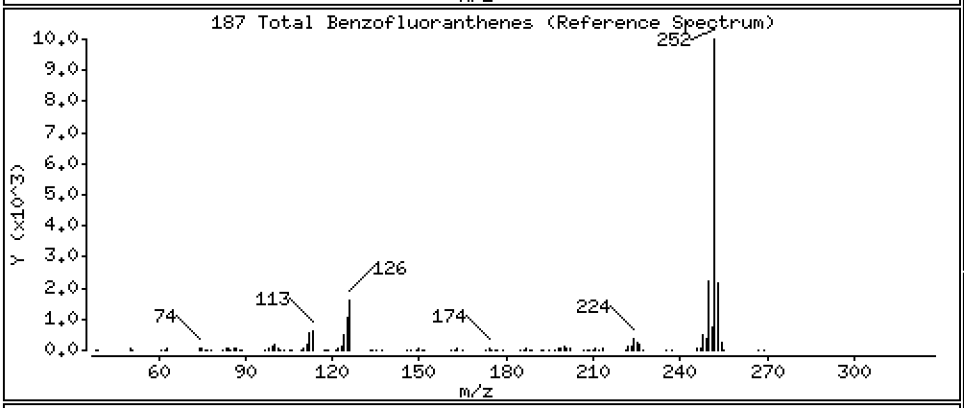
Concentration: 9.483 ug/mL

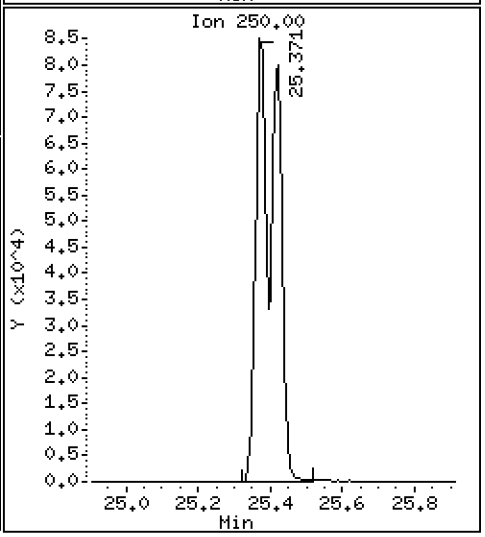


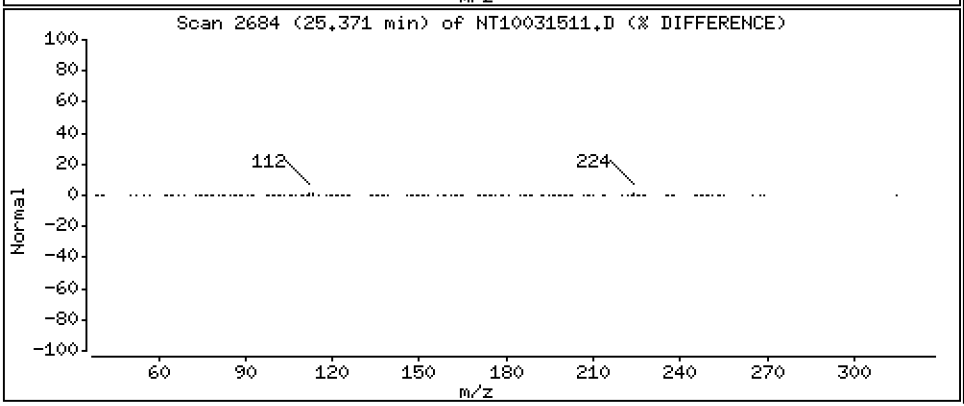












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

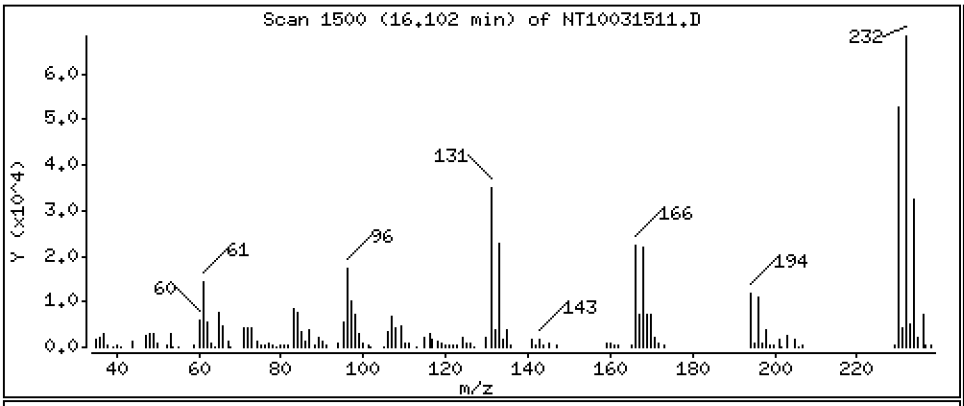
Operator: VTS

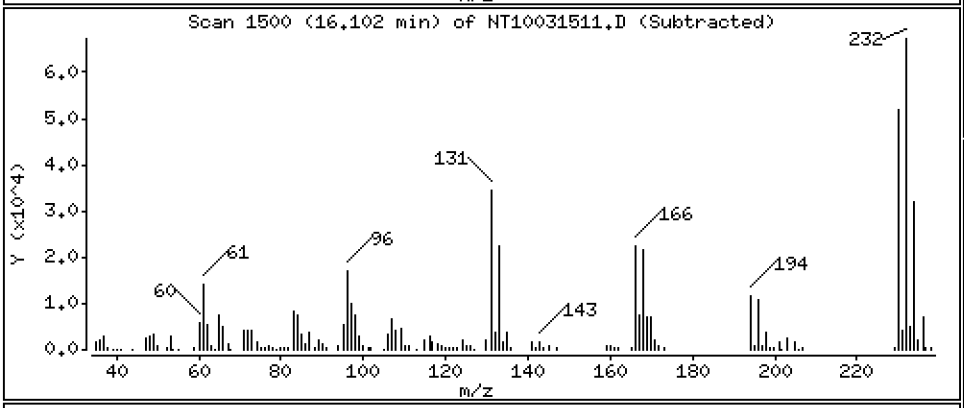
Column phase: ZB-5msi

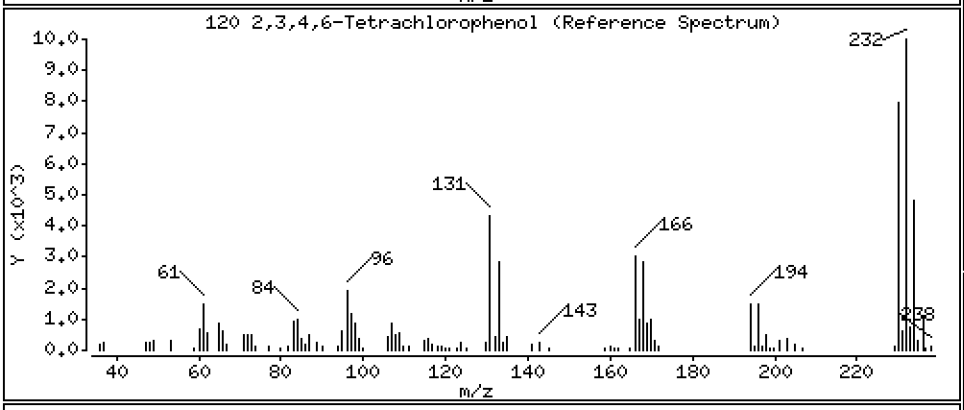
Column diameter: 0.25

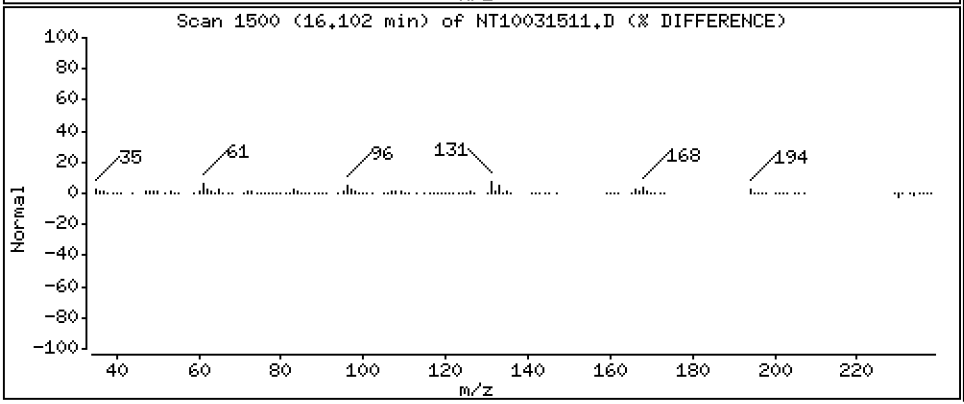
120 2,3,4,6-Tetrachlorophenol

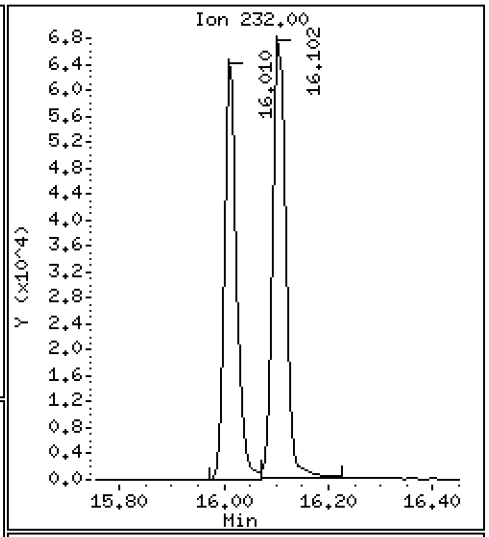
Concentration: 3.980 ug/mL

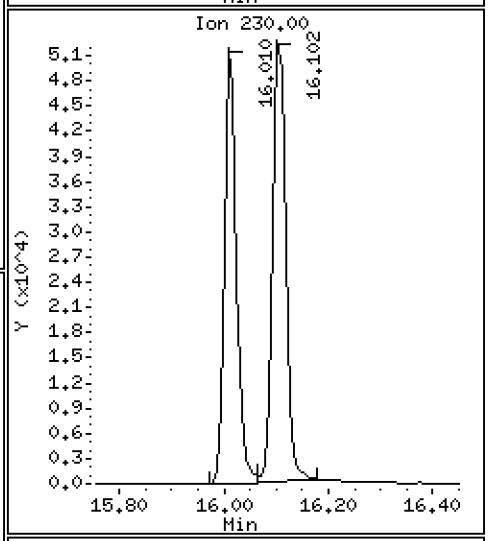


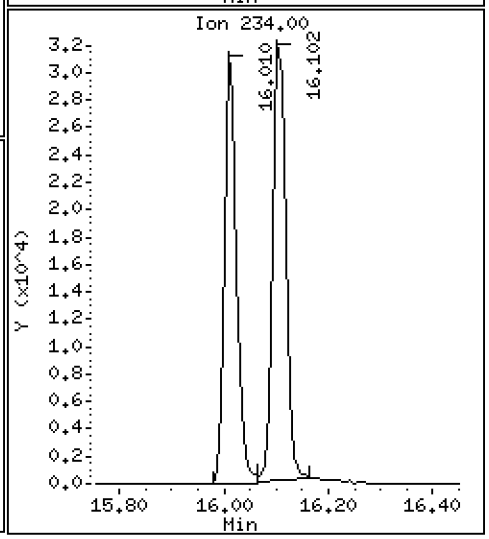












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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

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

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

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

QC Flag Legend

H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

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

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

Test Mode:
Use Last Continuing Calibrator.

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

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

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

REVIEW SUMMARY FOR FILE - NT10031511.D

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

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

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

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.952	0.000	0.9524	Benzoic acid

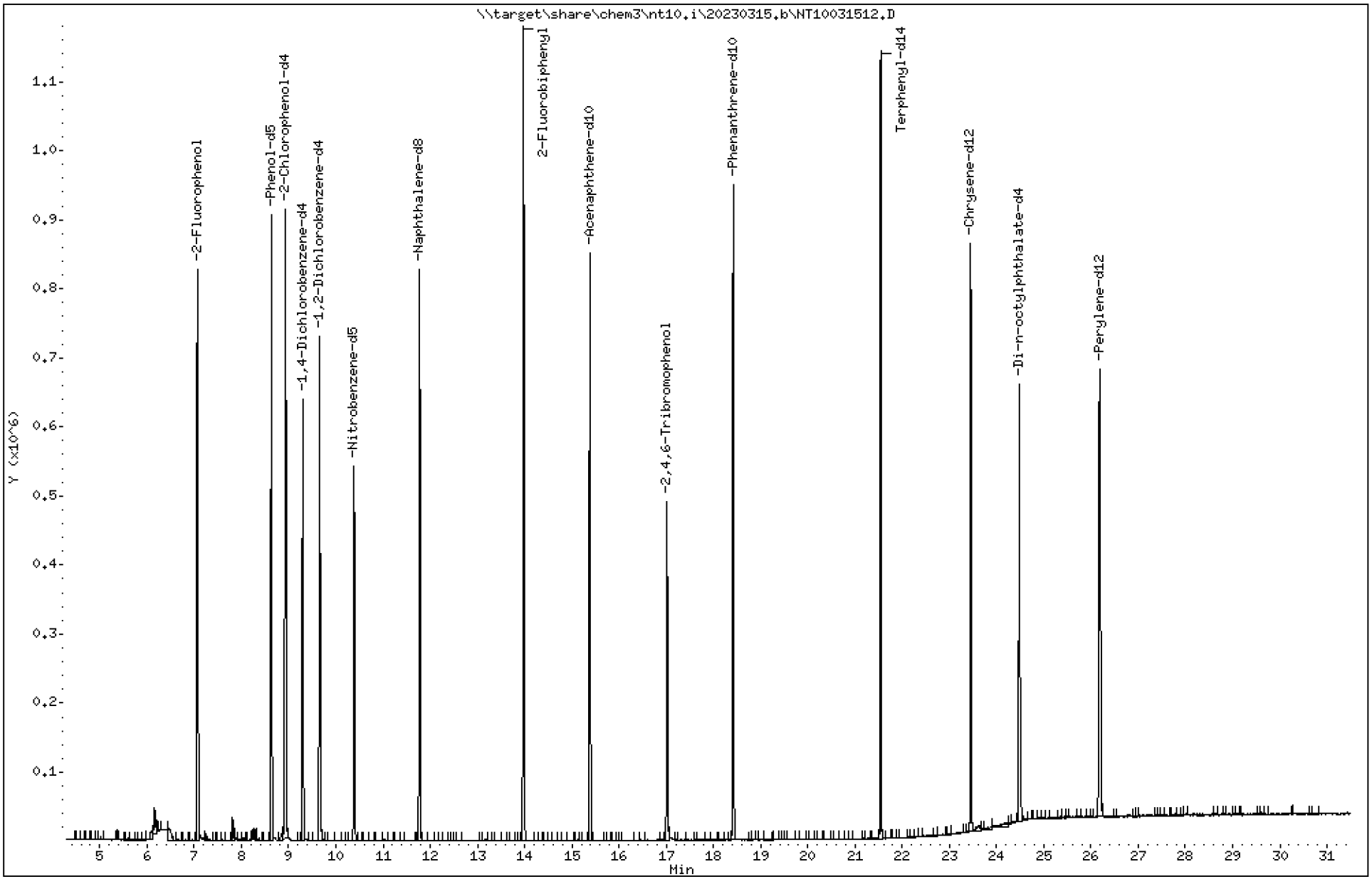
RRT check based on Ccal File: NT10031508.D

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

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

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

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



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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

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

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

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

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

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

Test Mode:
Use Last Continuing Calibrator.

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

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

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

REVIEW SUMMARY FOR FILE - NT10031512.D

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

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT10031508.D

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

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

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GC00046
Laboratory ID: SLC0228-SCV1
Sequence: SLC0228
Sequence Name: SCV 5.0
Standard ID: L002833

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

* Indicates values outside of QC limits

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

Page 1

Date : 16-MAR-2023 02:16

Client ID:

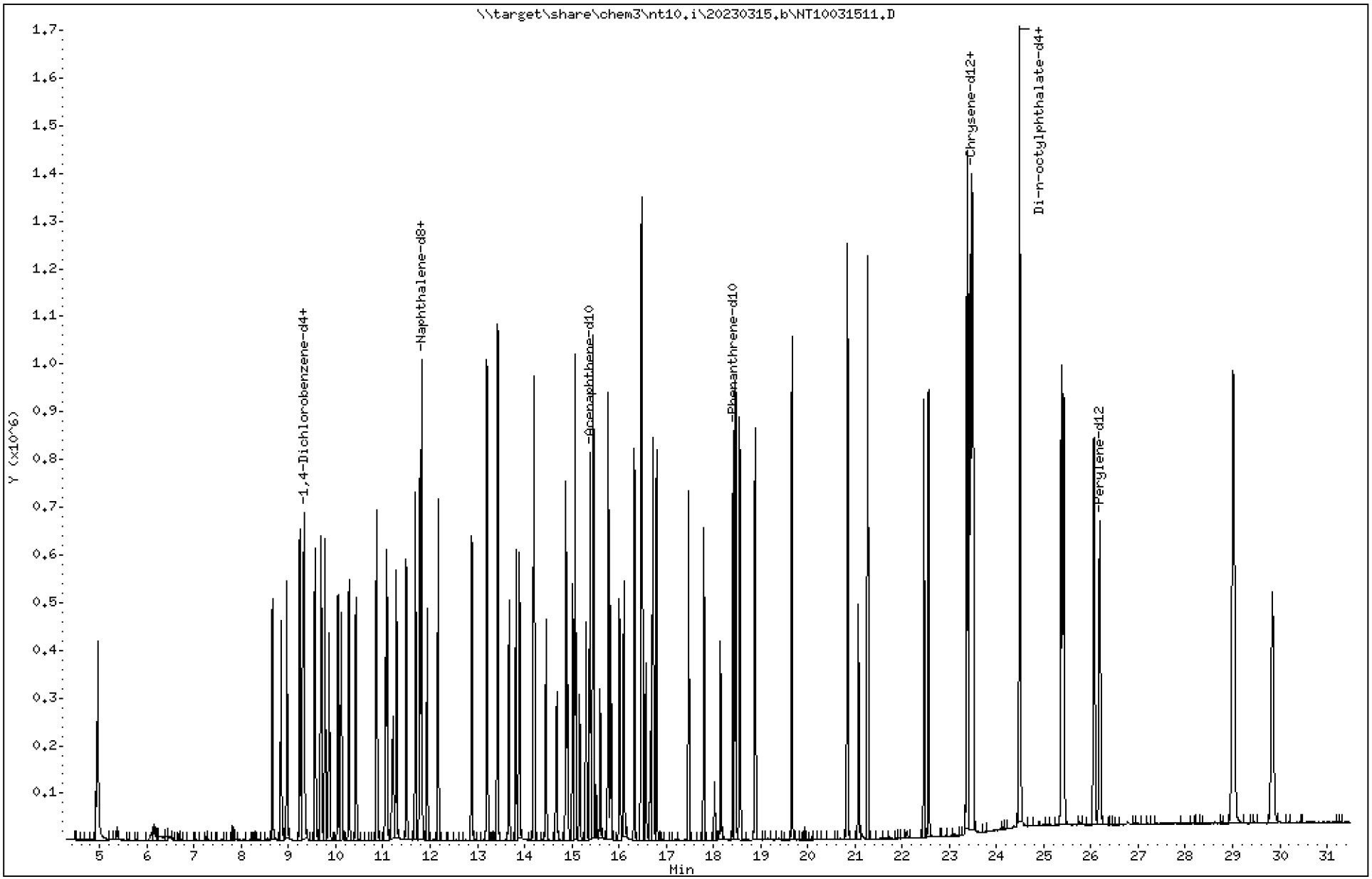
Instrument: nt10.i

Sample Info: SLC0228-SCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

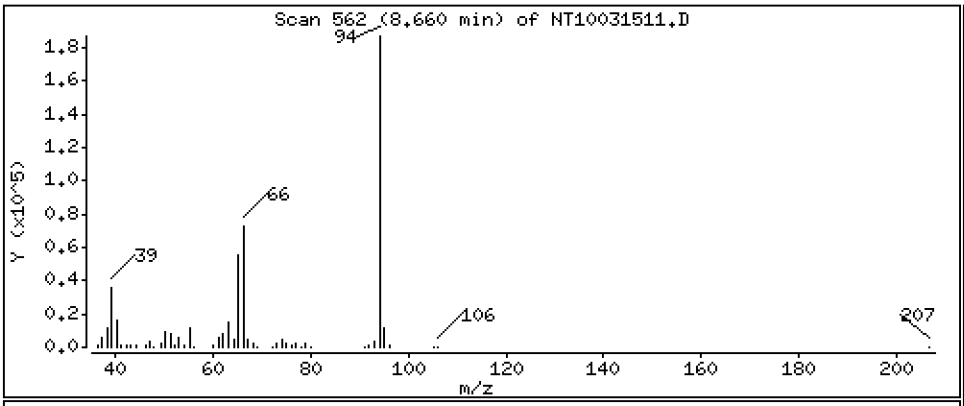
Operator: VTS

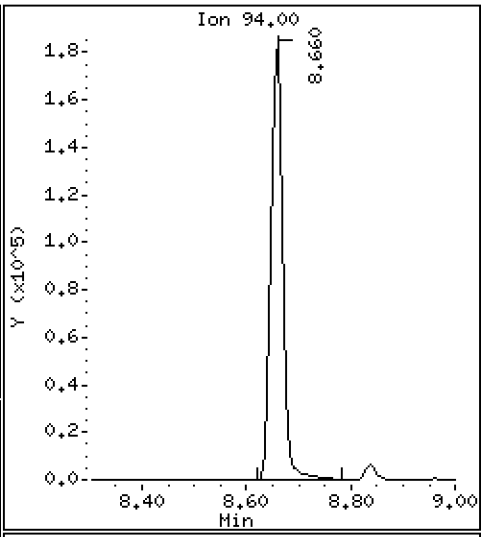
Column phase: ZB-5msi

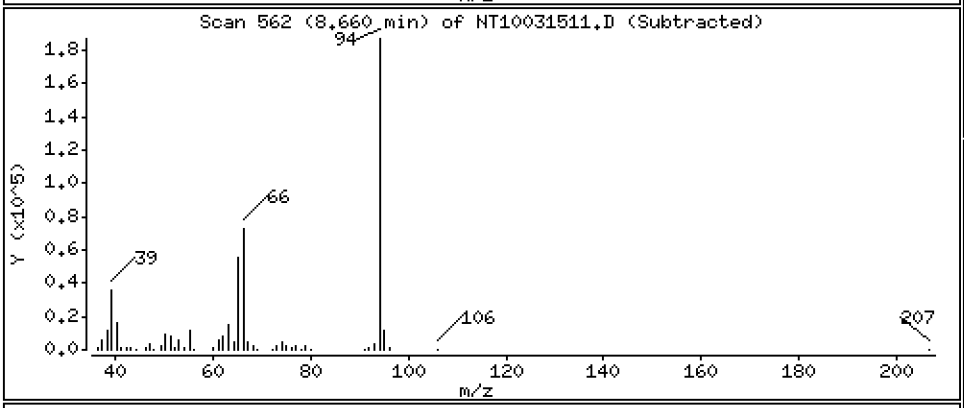
Column diameter: 0.25

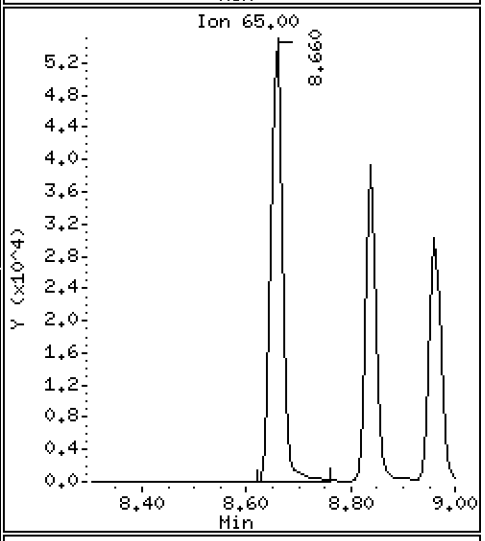
3 Phenol

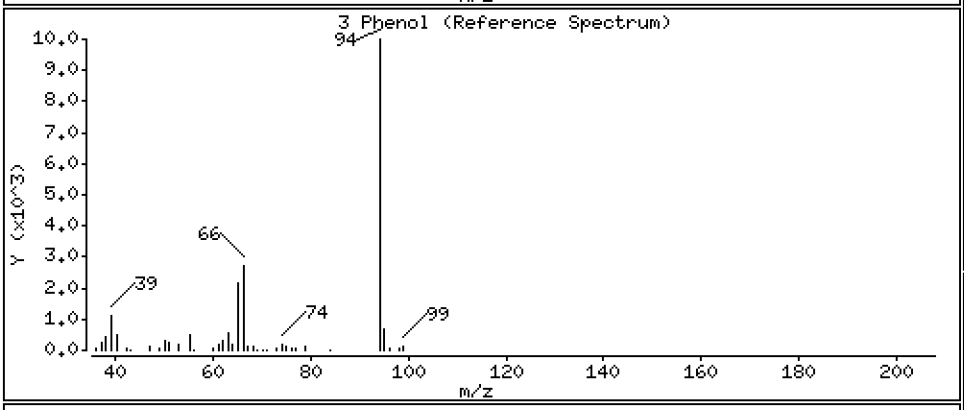
Concentration: 4.412 ug/mL

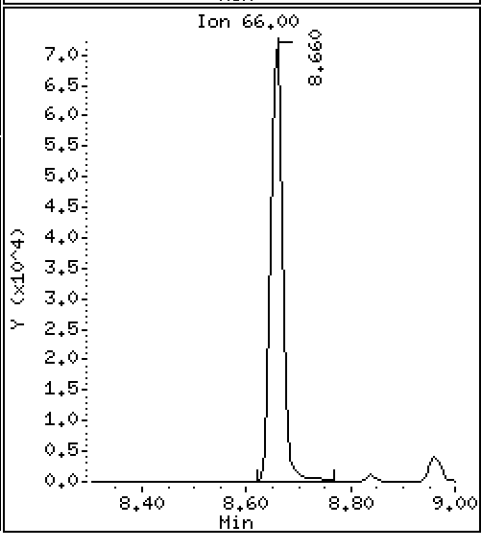


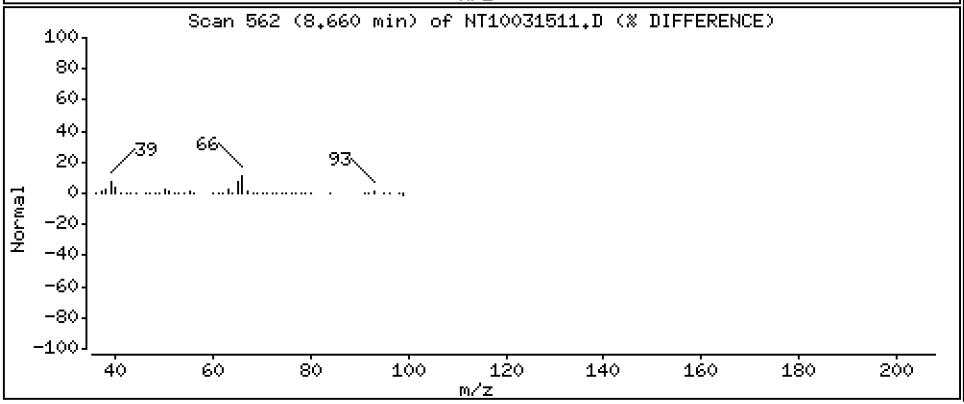












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

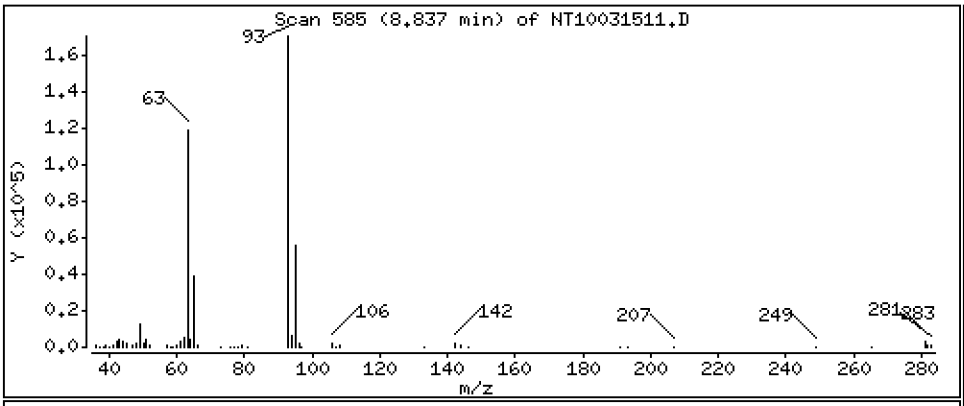
Operator: VTS

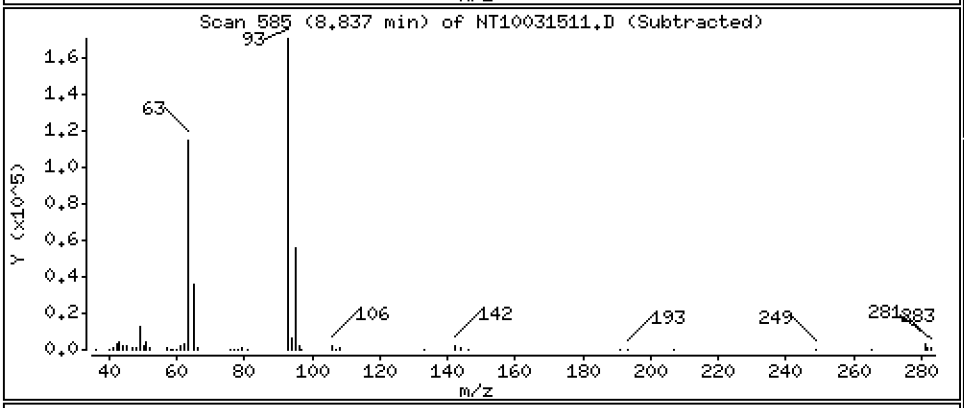
Column phase: ZB-5msi

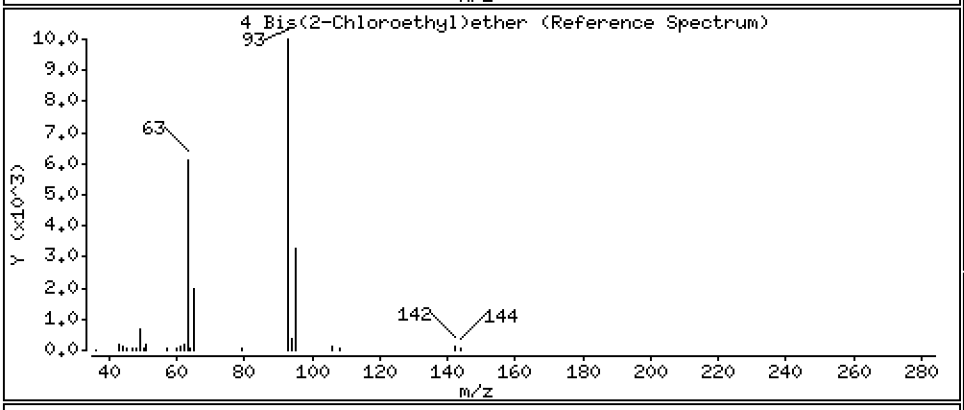
Column diameter: 0.25

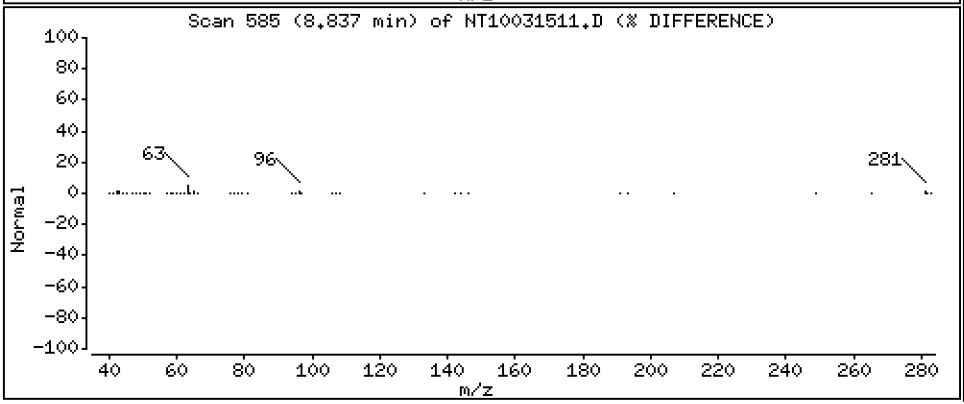
4 Bis(2-Chloroethyl)ether

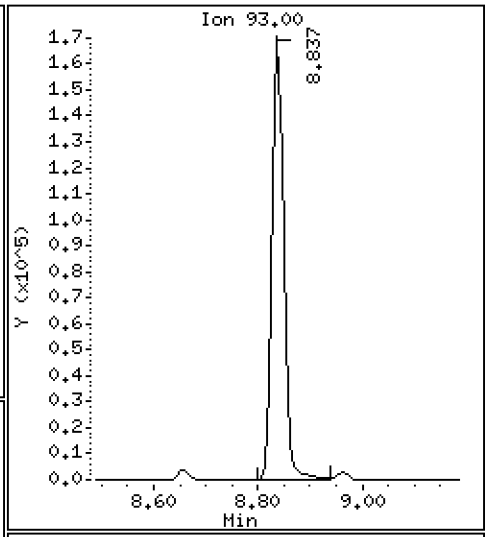
Concentration: 5.258 ug/mL

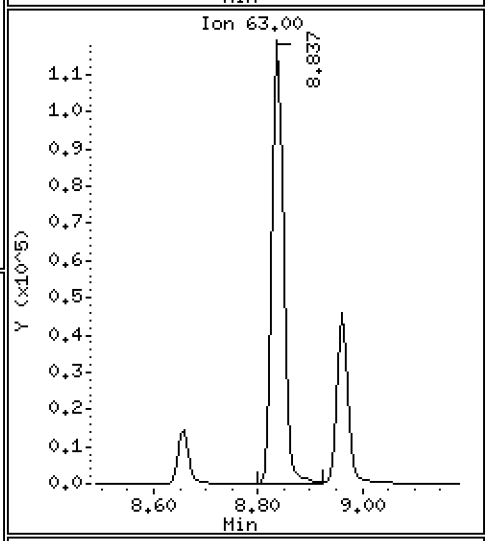


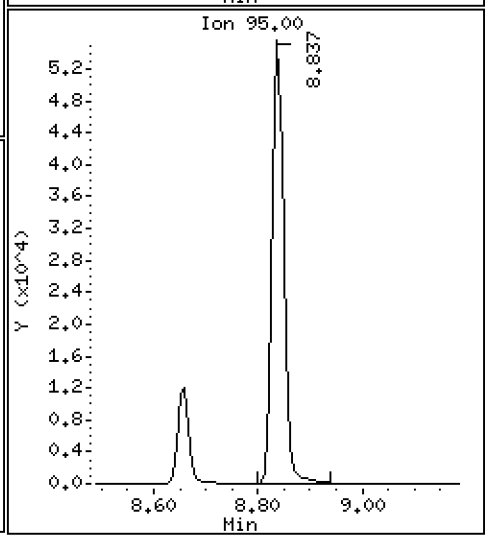












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

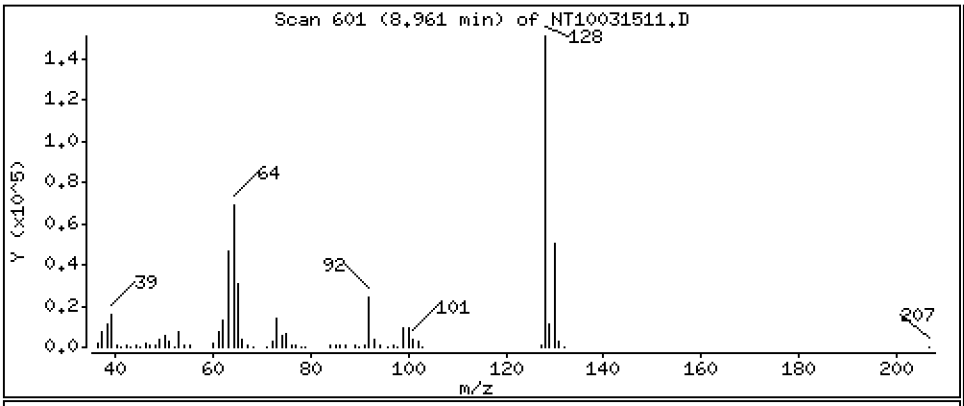
Operator: VTS

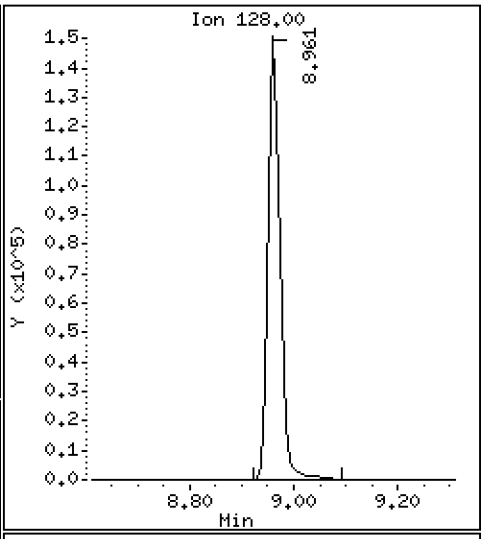
Column phase: ZB-5msi

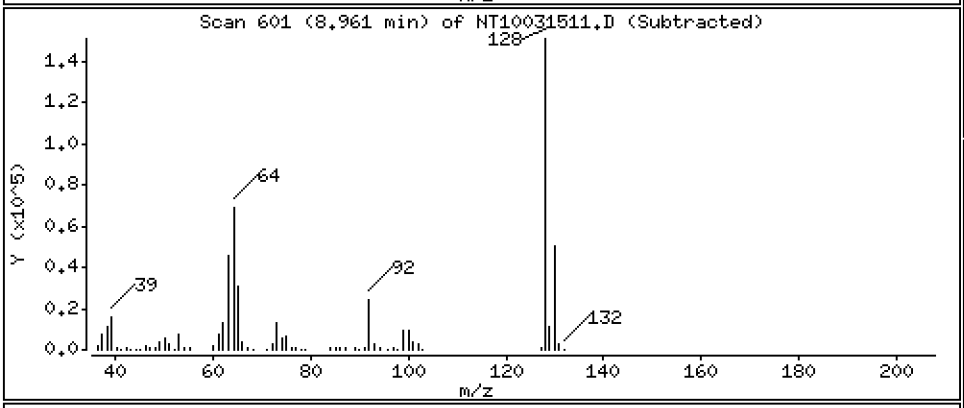
Column diameter: 0.25

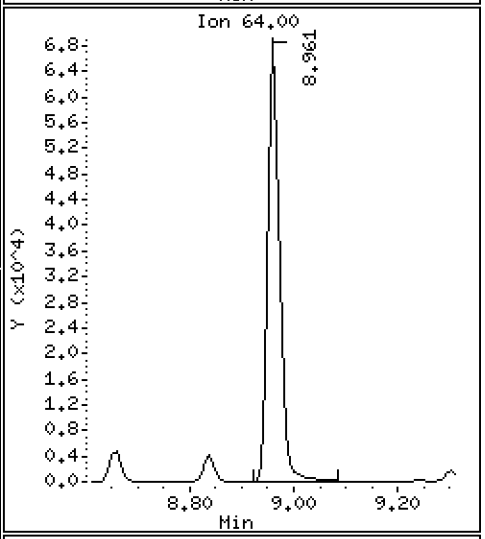
6 2-Chlorophenol

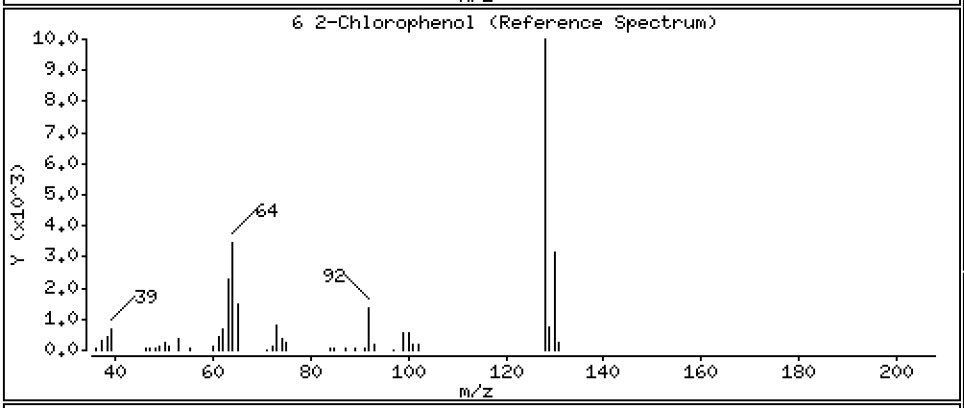
Concentration: 4.277 ug/mL

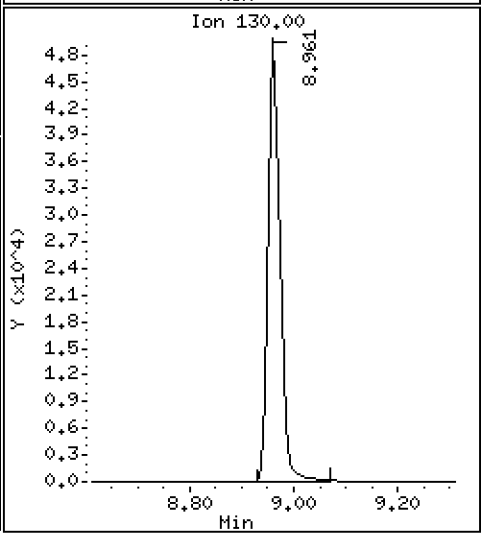


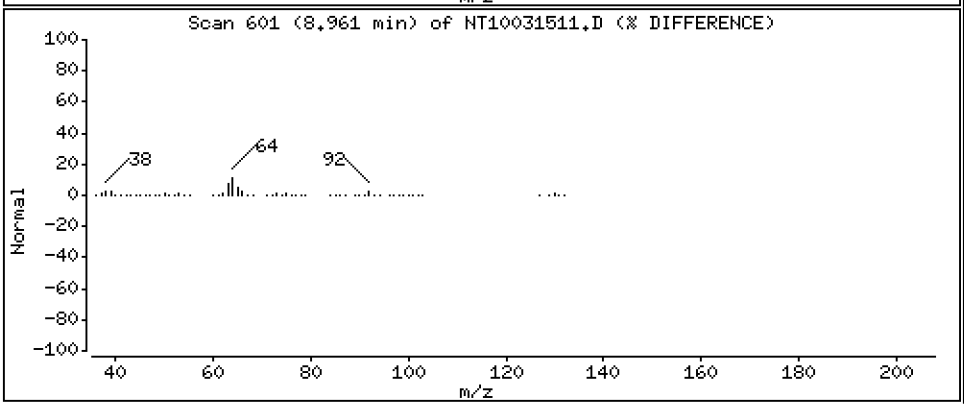












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

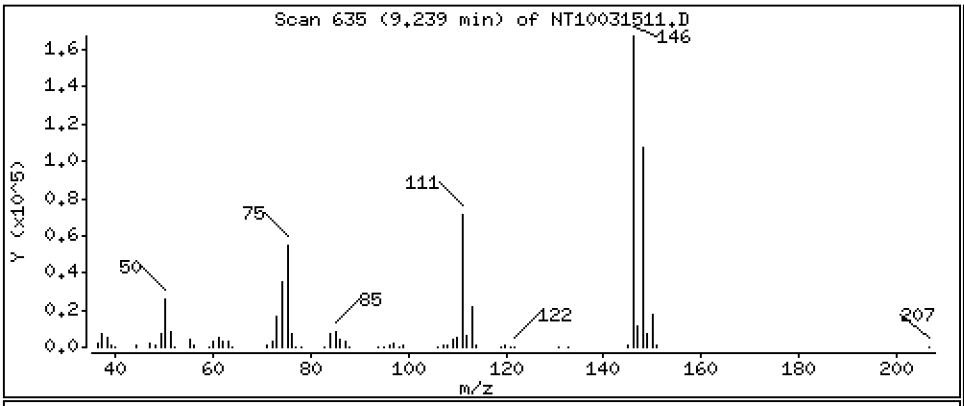
Operator: VTS

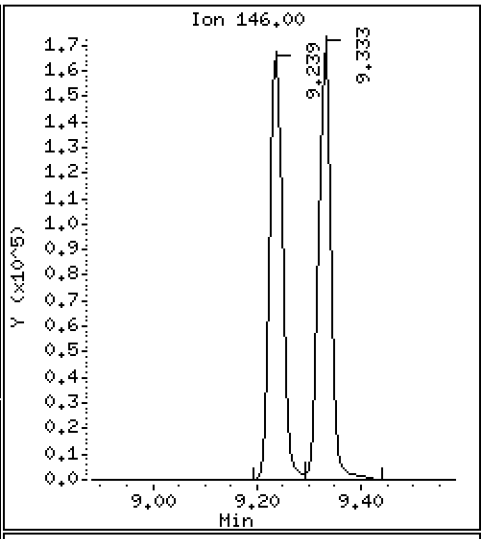
Column phase: ZB-5msi

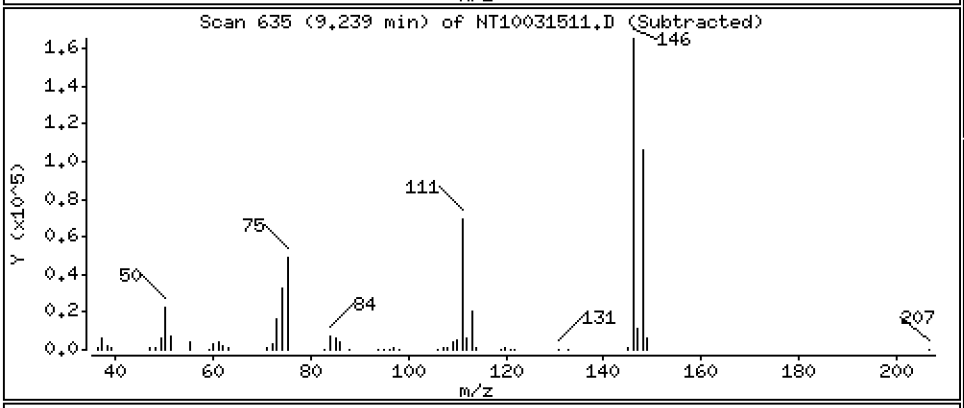
Column diameter: 0.25

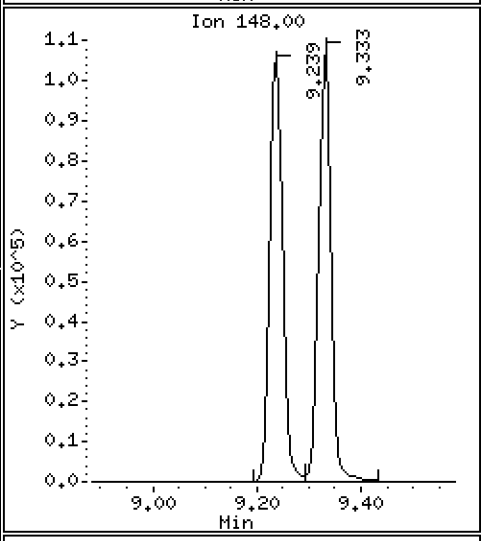
7 1,3-Dichlorobenzene

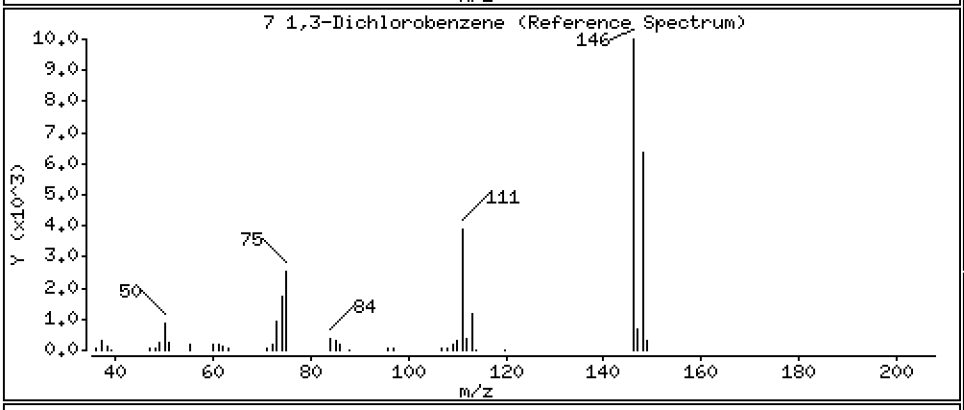
Concentration: 4.772 ug/mL

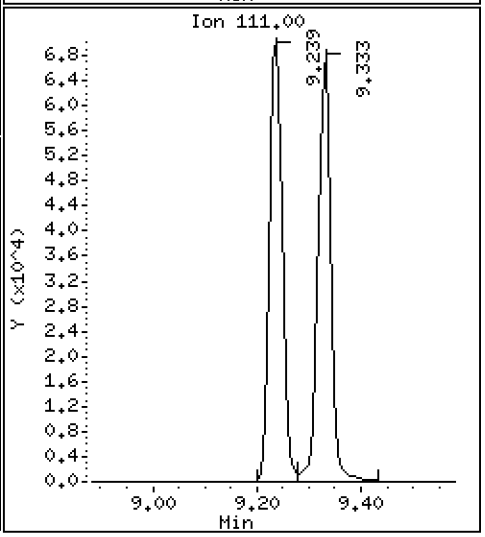


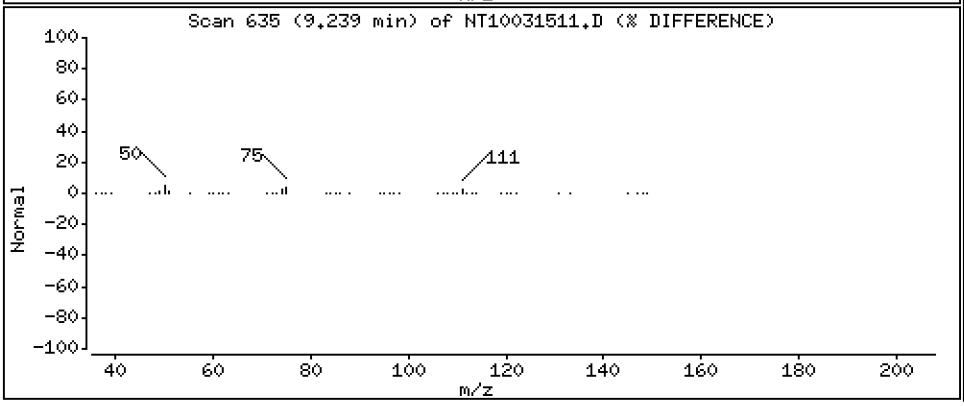












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

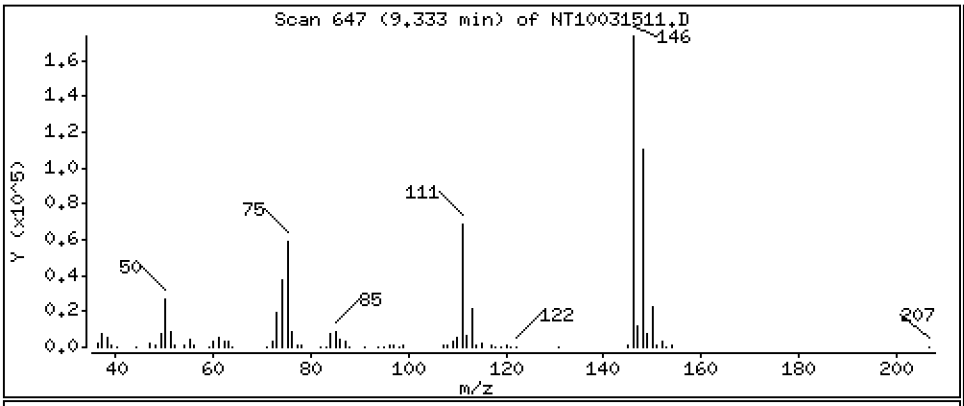
Operator: VTS

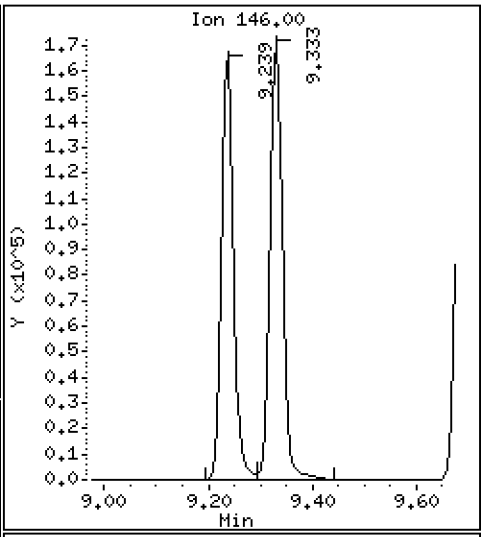
Column phase: ZB-5msi

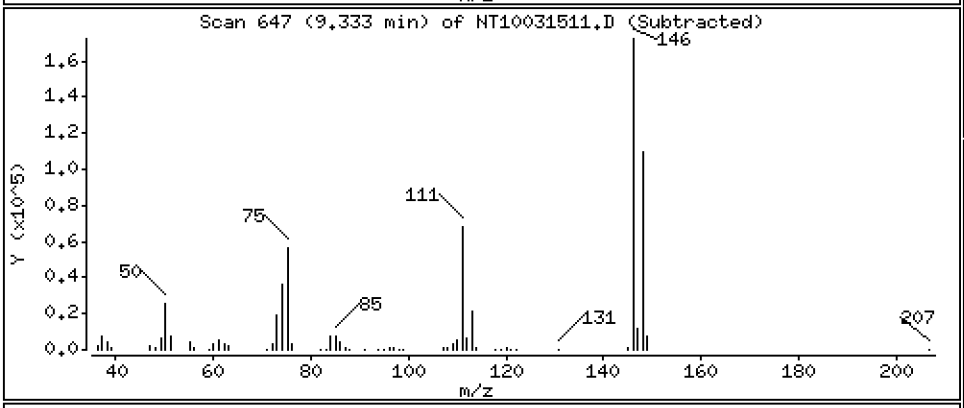
Column diameter: 0.25

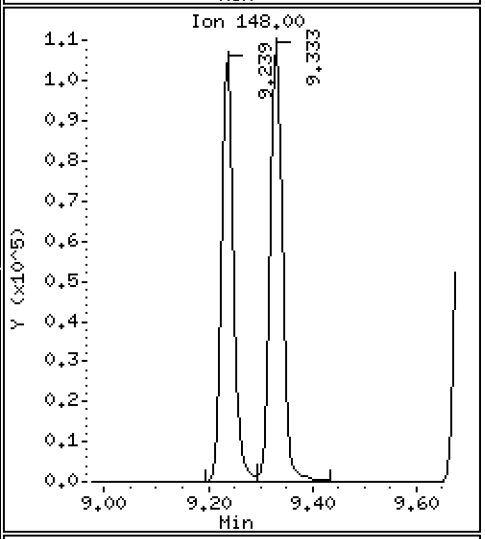
9 1,4-Dichlorobenzene

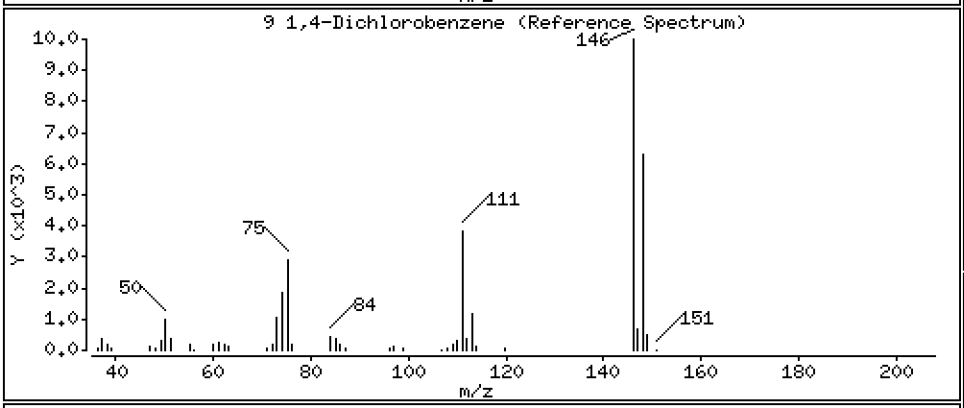
Concentration: 4.913 ug/mL

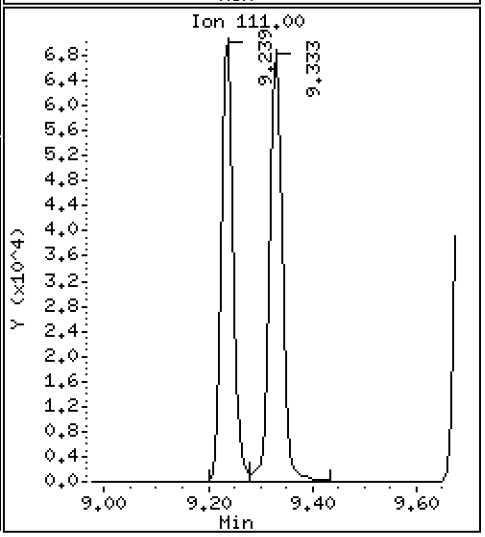


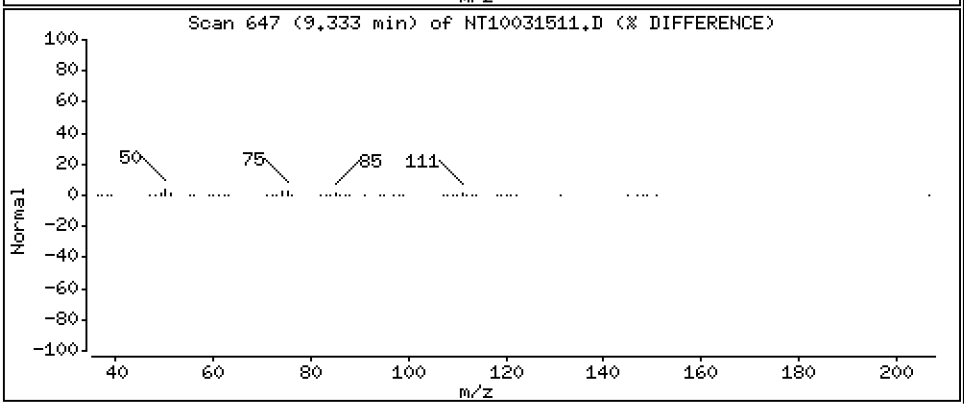












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

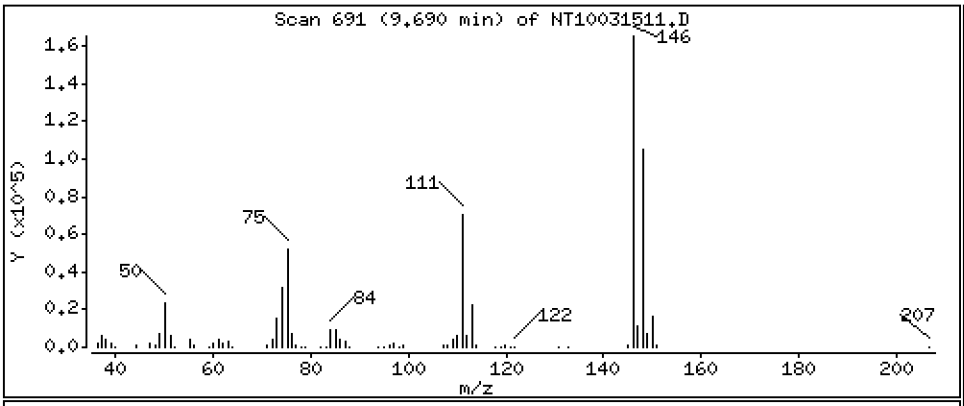
Operator: VTS

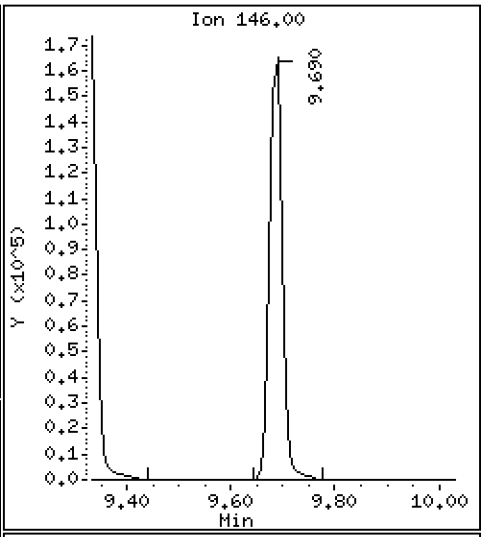
Column phase: ZB-5msi

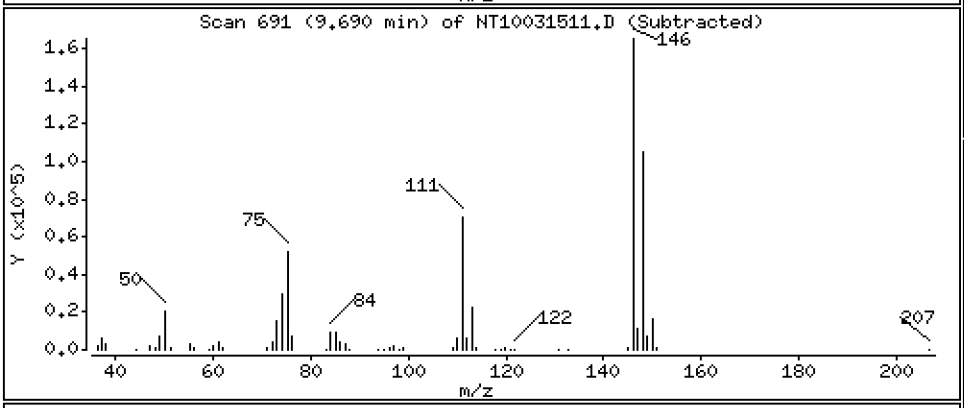
Column diameter: 0.25

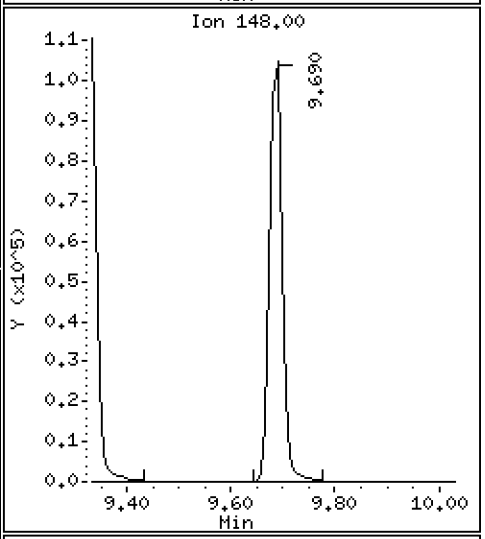
12 1,2-Dichlorobenzene

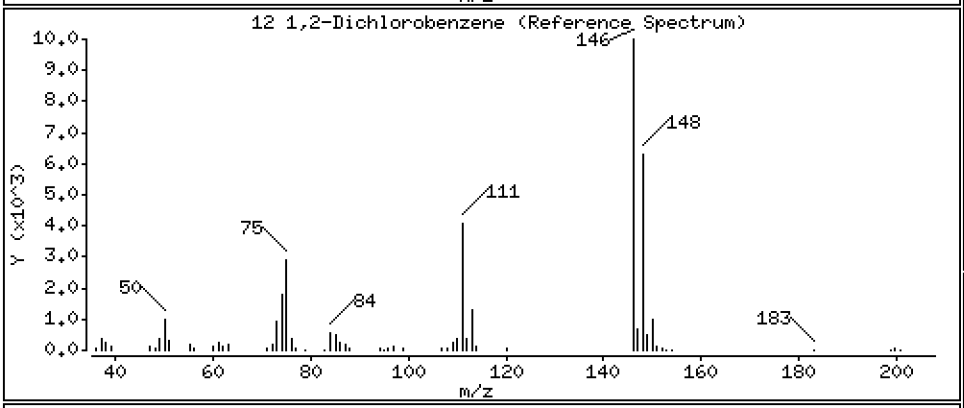
Concentration: 4.882 ug/mL

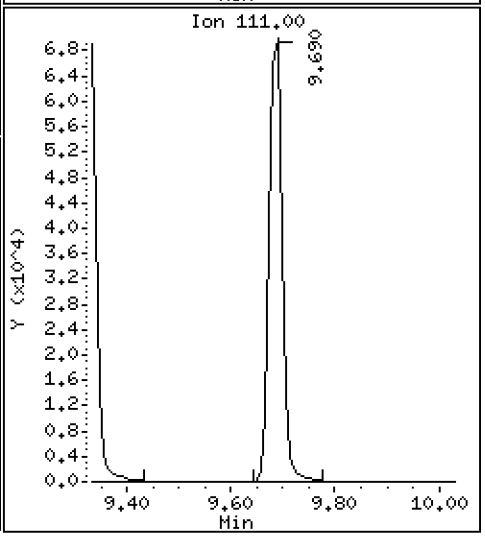


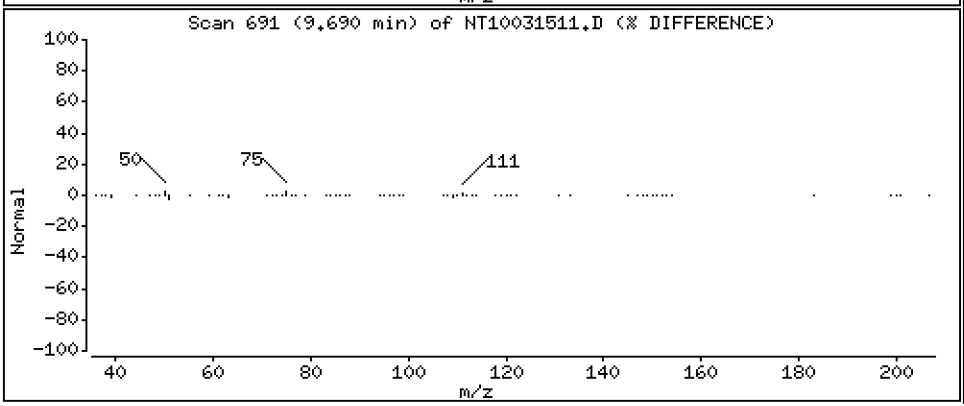












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

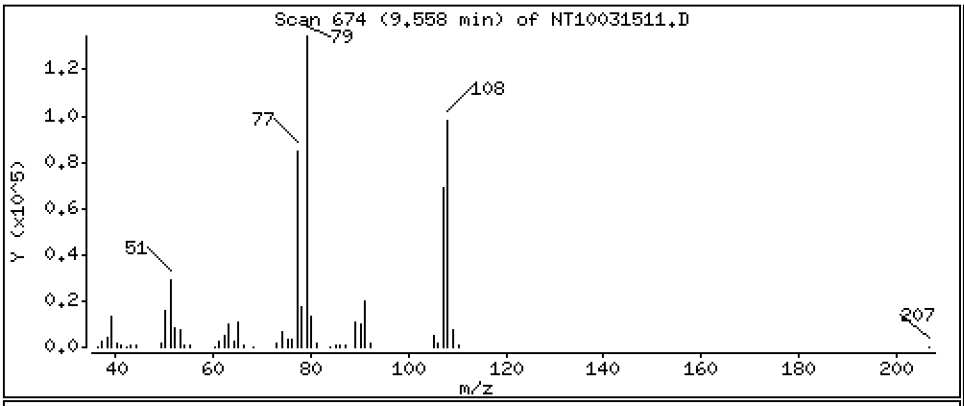
Operator: VTS

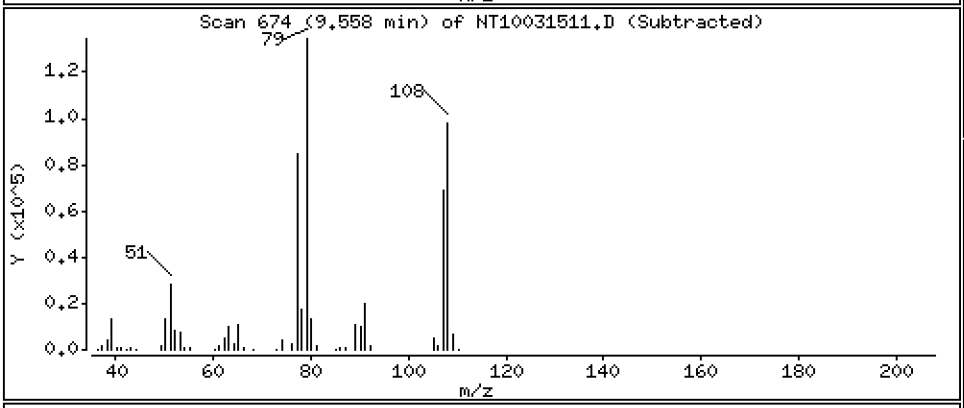
Column phase: ZB-5msi

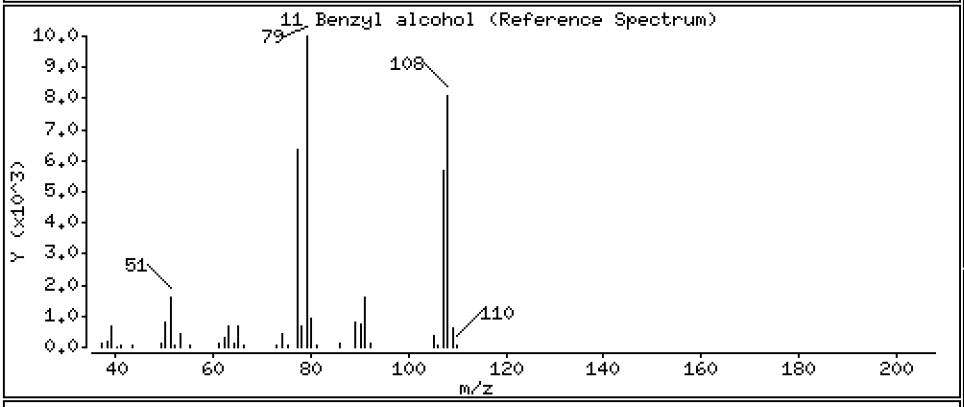
Column diameter: 0.25

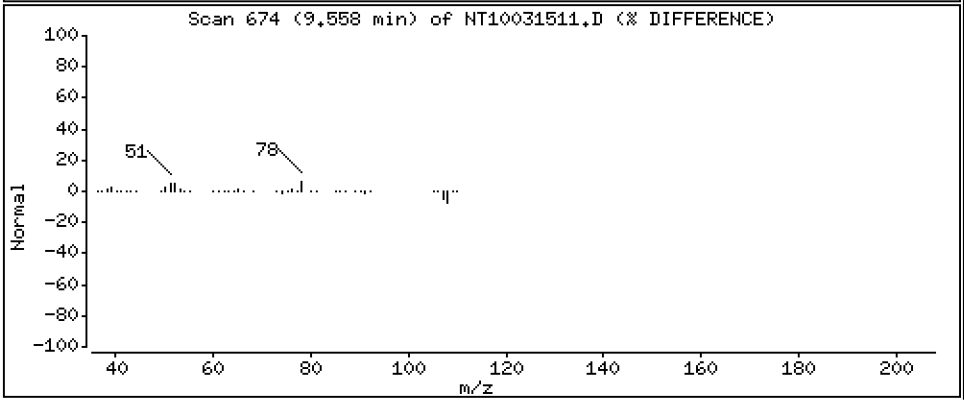
11 Benzyl alcohol

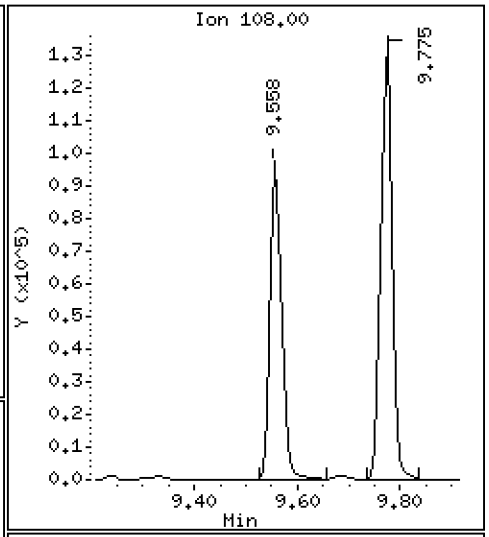
Concentration: 4.927 ug/mL

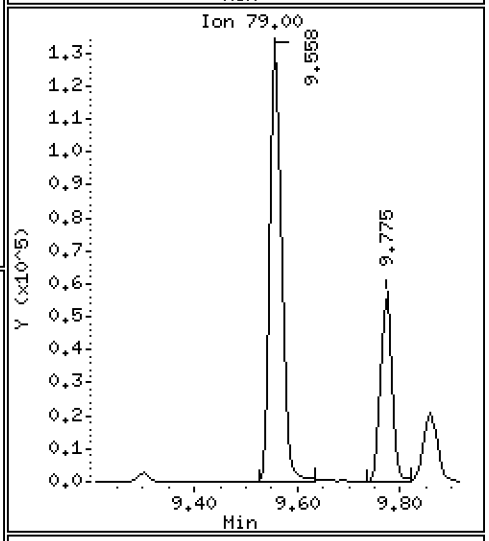


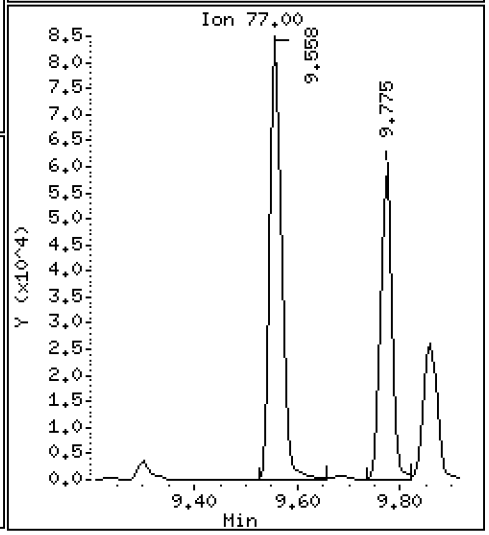












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

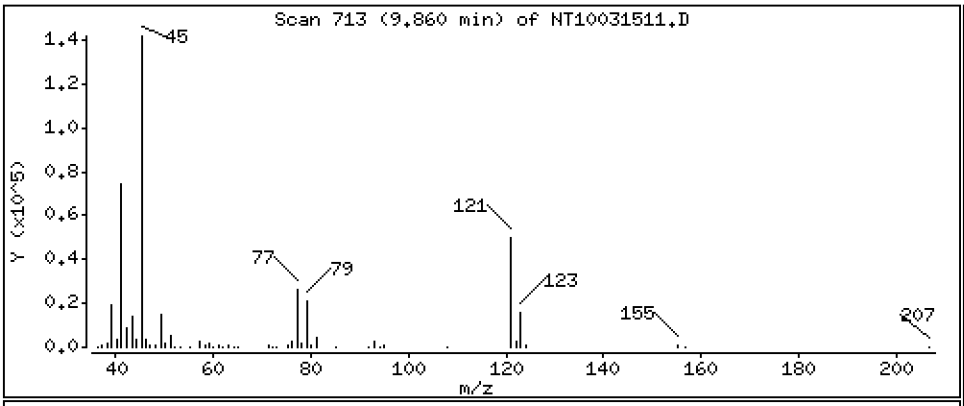
Operator: VTS

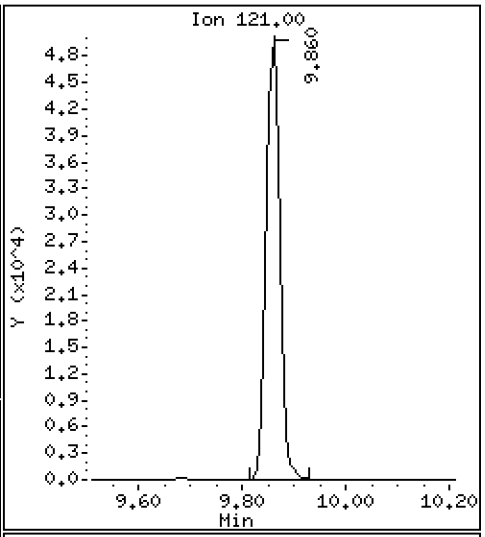
Column phase: ZB-5msi

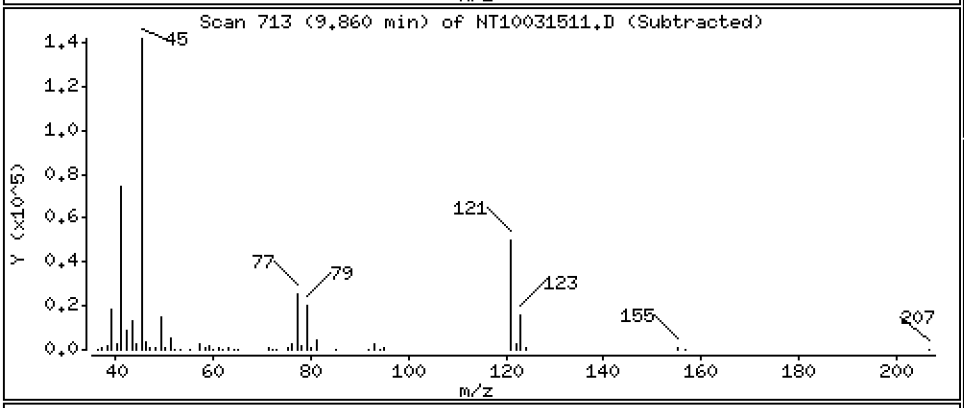
Column diameter: 0.25

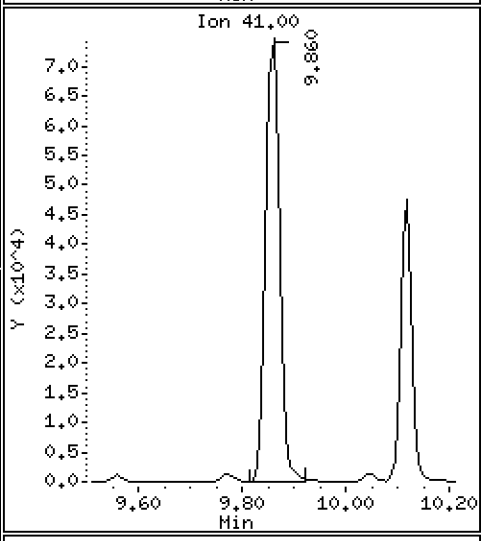
14 2,2'-oxybis(1-Chloropropane)

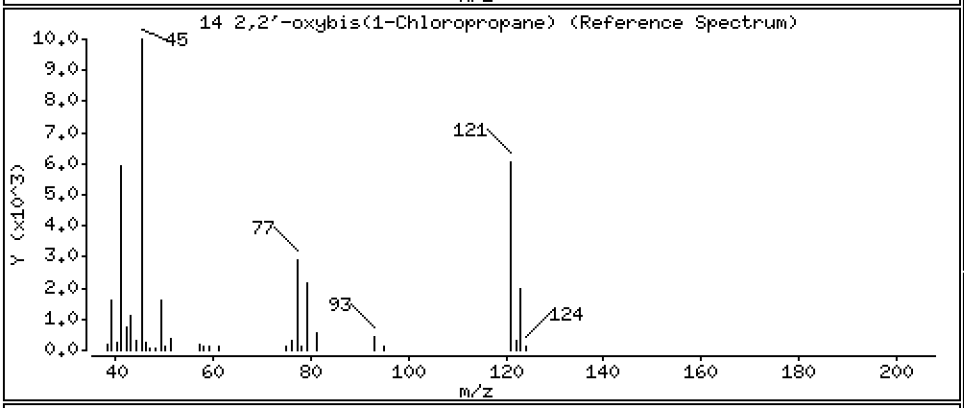
Concentration: 6.214 ug/mL

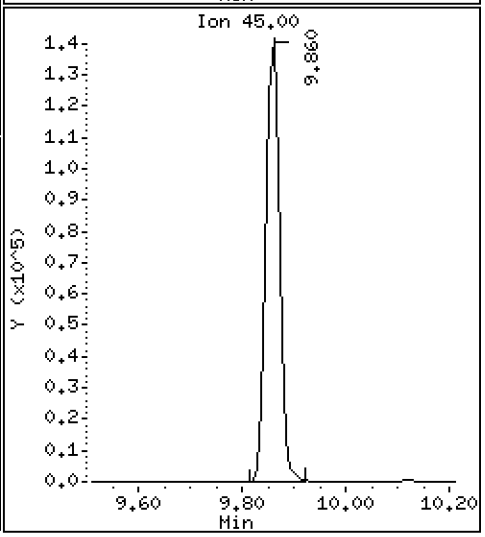


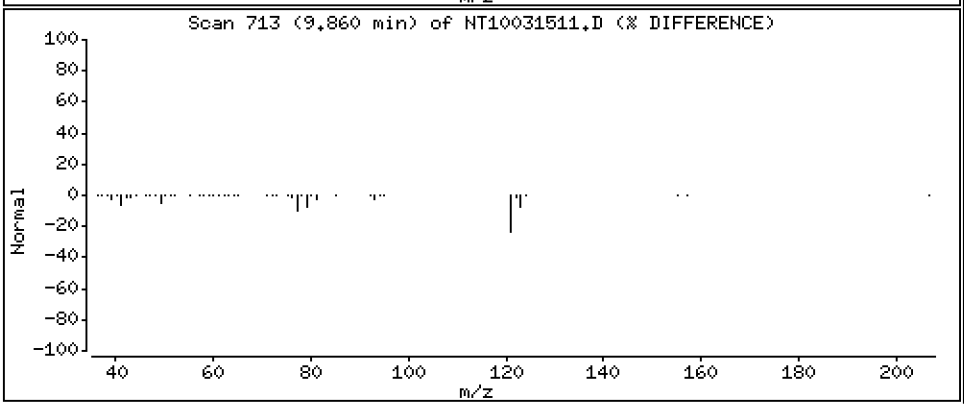












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

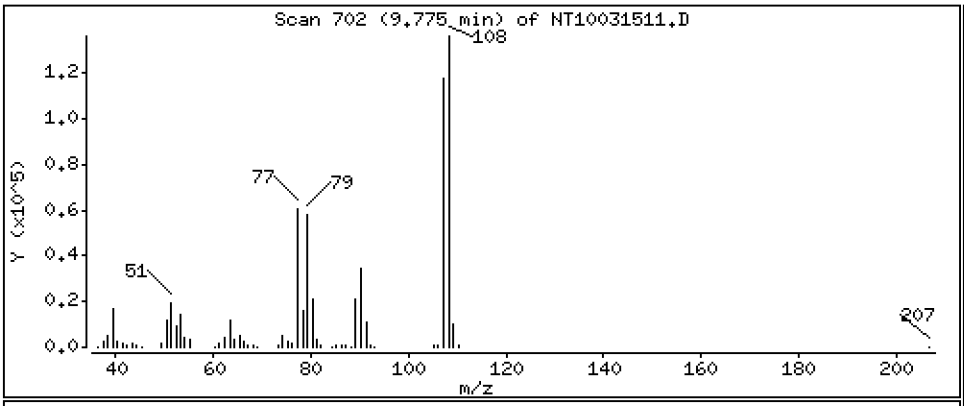
Operator: VTS

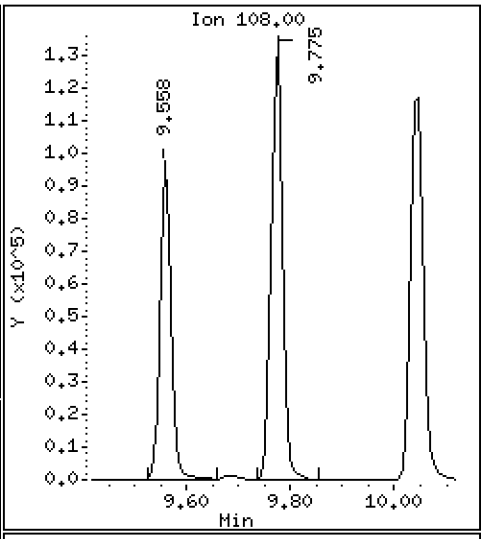
Column phase: ZB-5msi

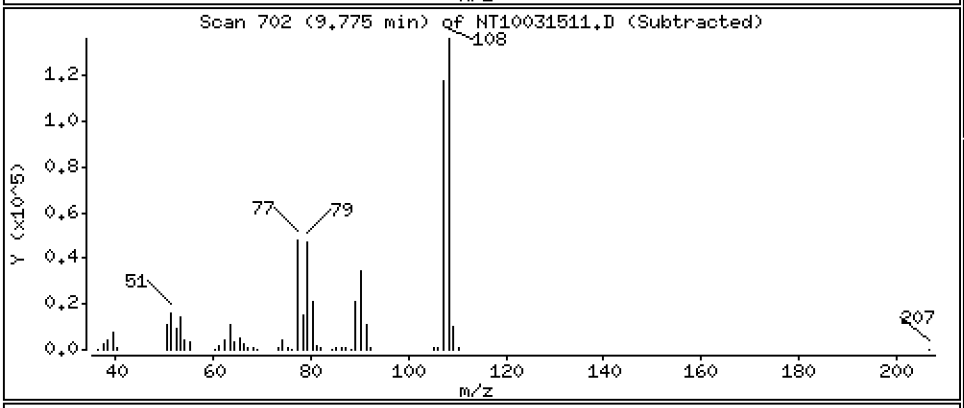
Column diameter: 0.25

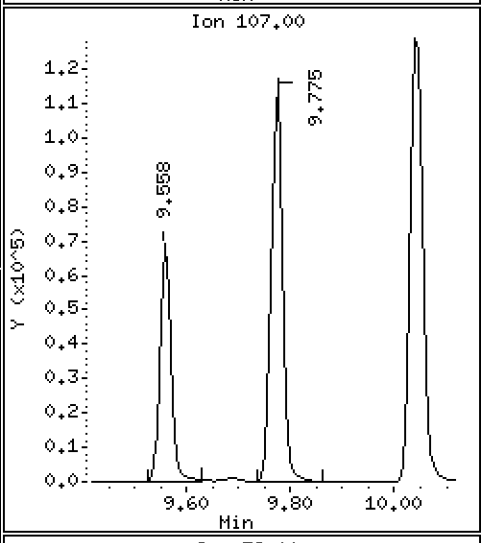
13 2-Methylphenol

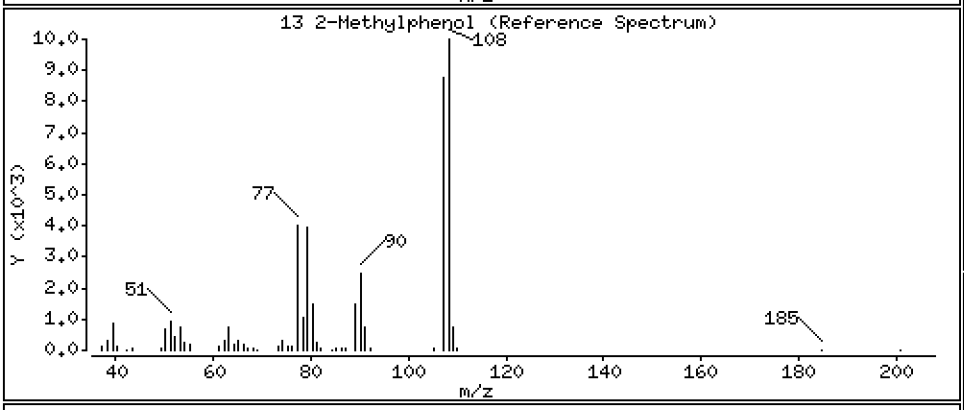
Concentration: 4.215 ug/mL

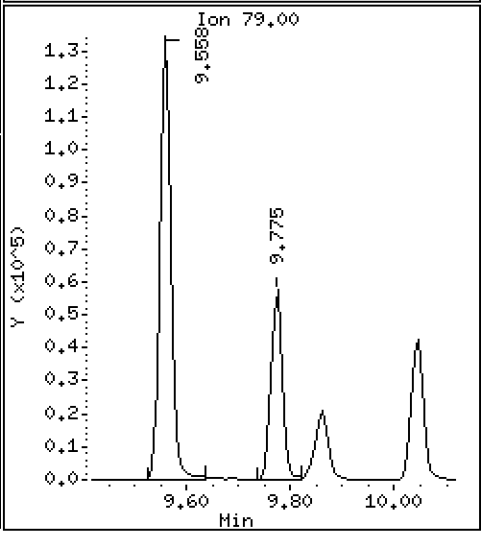


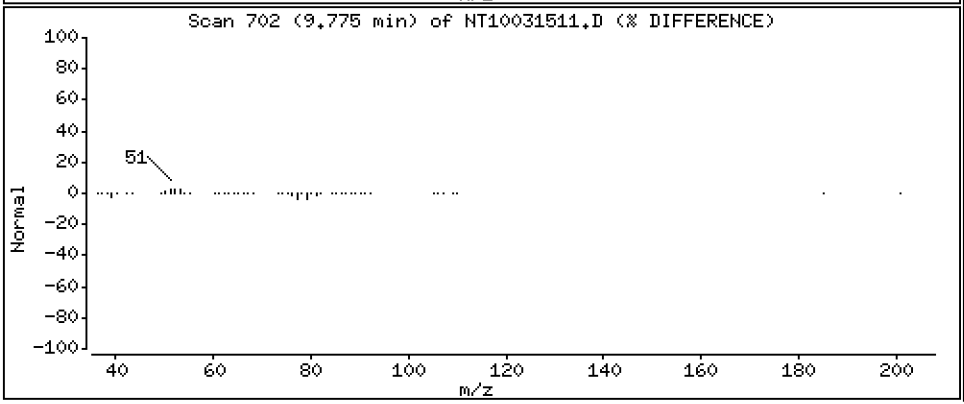












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

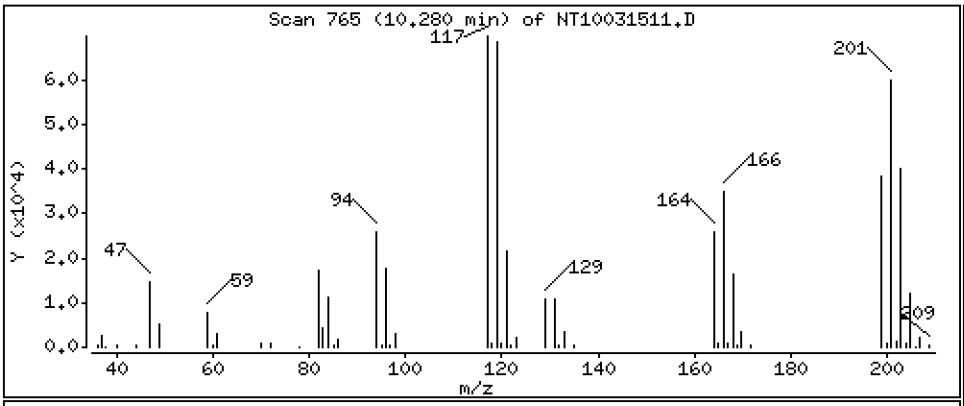
Operator: VTS

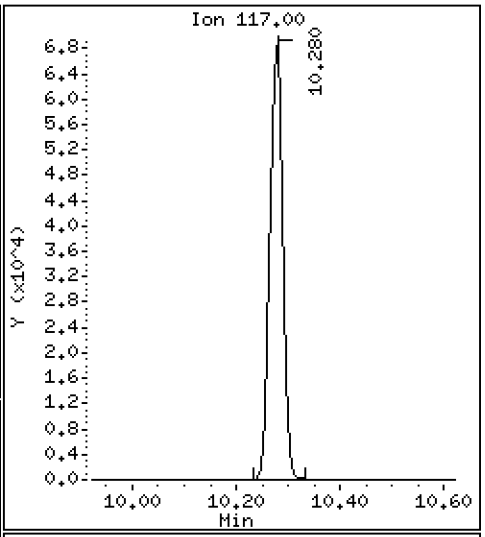
Column phase: ZB-5msi

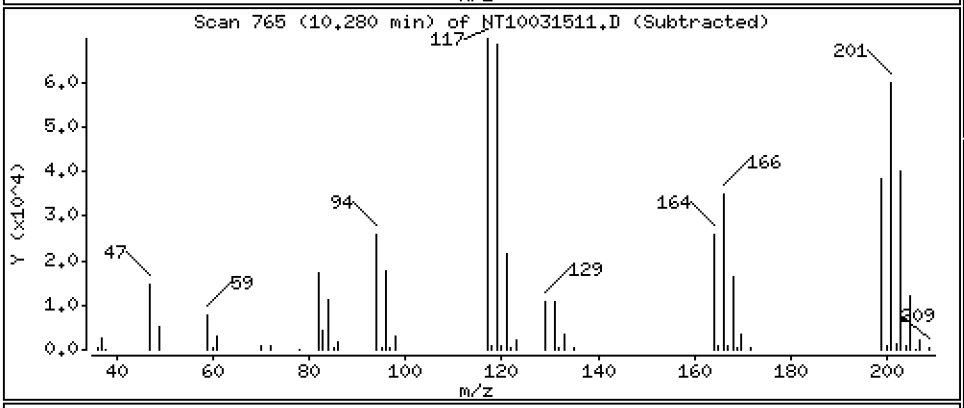
Column diameter: 0.25

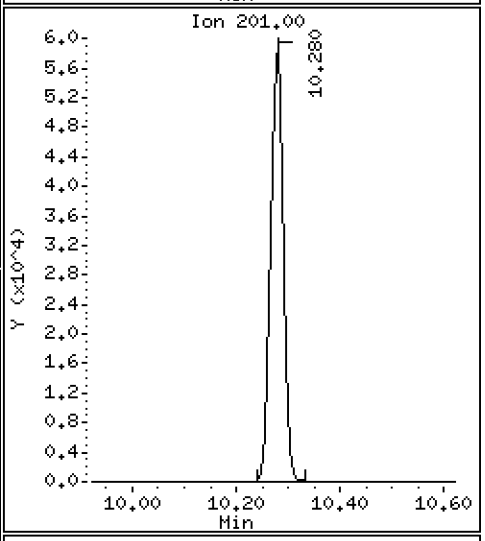
17 Hexachloroethane

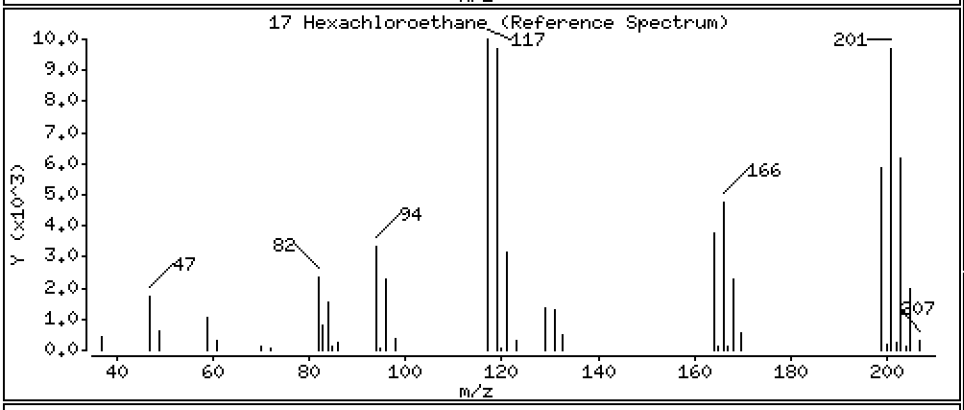
Concentration: 5.003 ug/mL

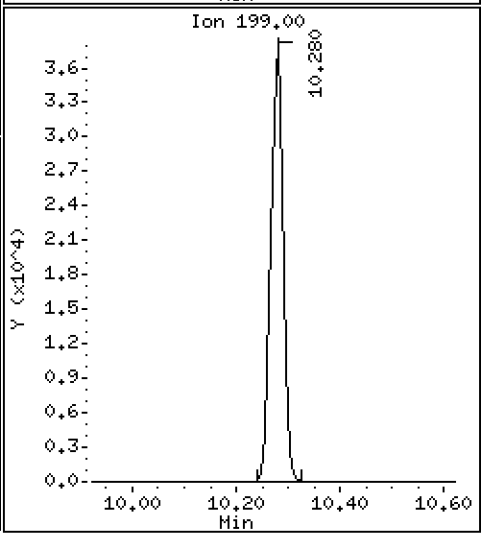


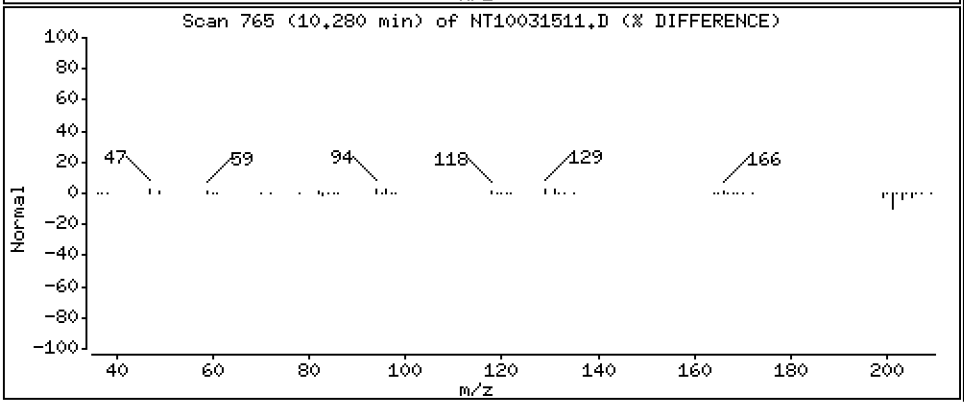












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

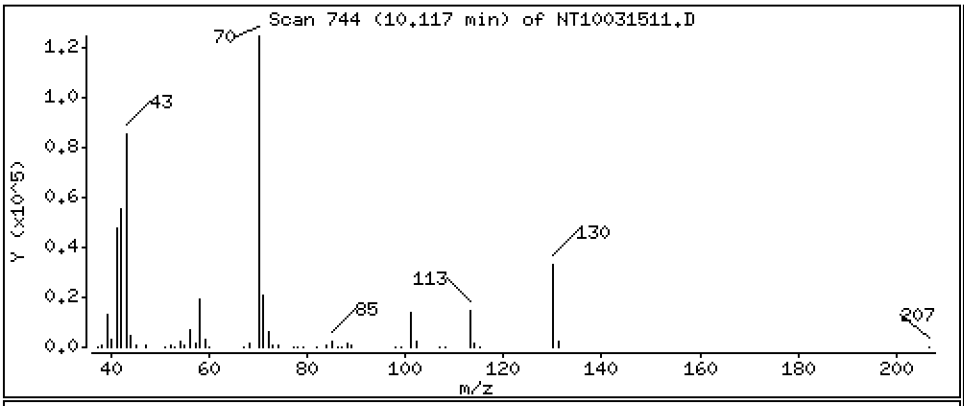
Operator: VTS

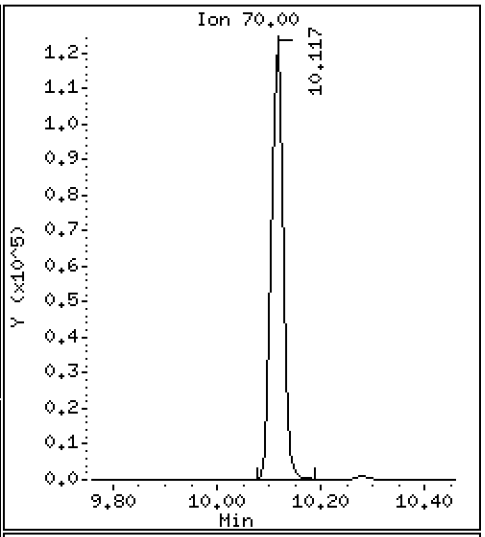
Column phase: ZB-5msi

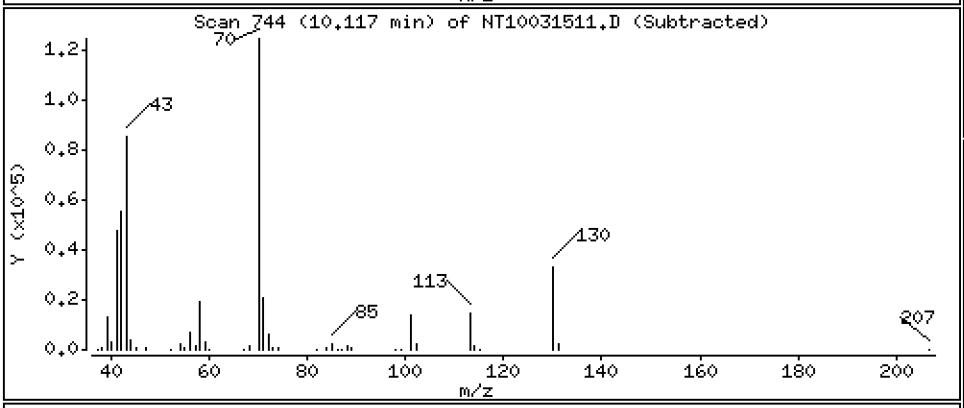
Column diameter: 0.25

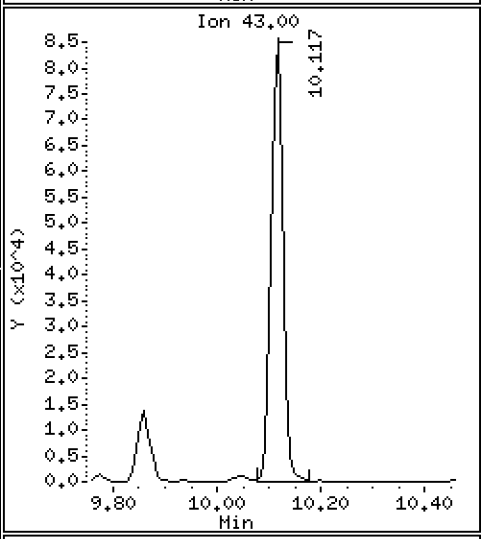
16 N-Nitroso-di-n-propylamine

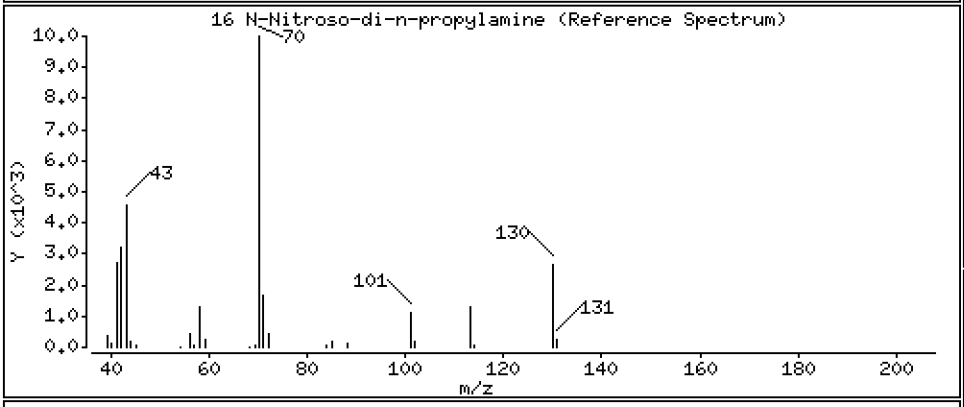
Concentration: 5.179 ug/mL

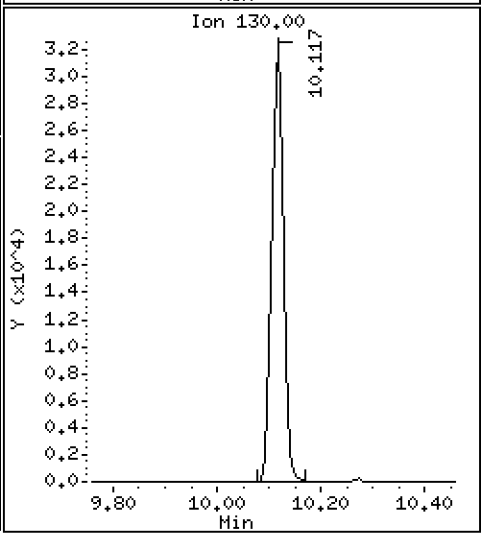


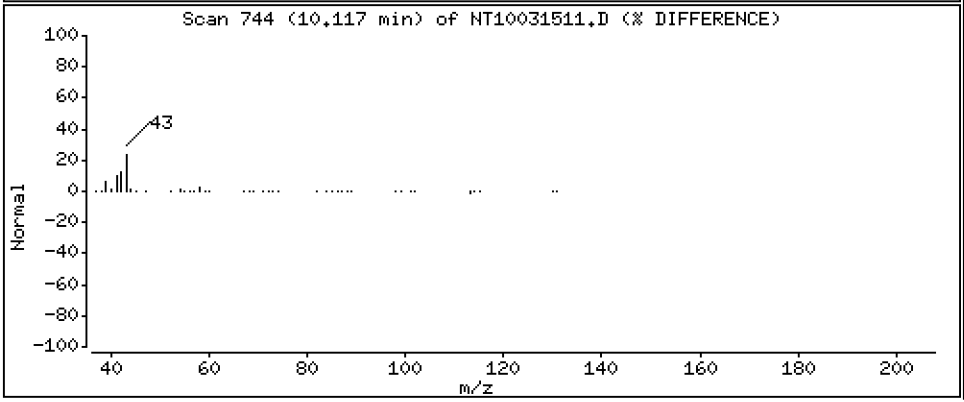












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

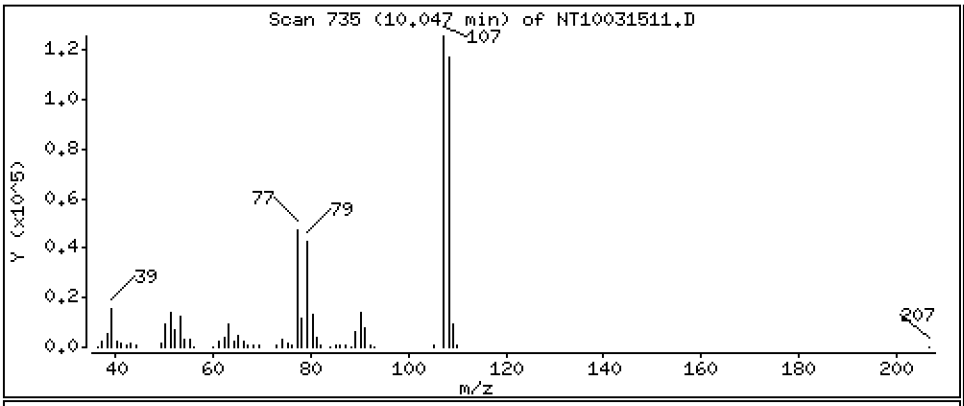
Operator: VTS

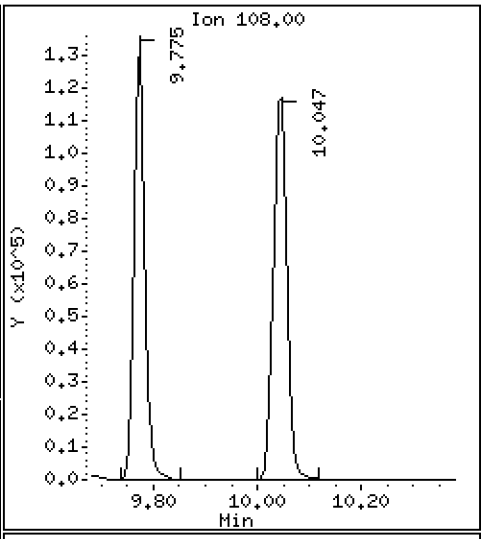
Column phase: ZB-5msi

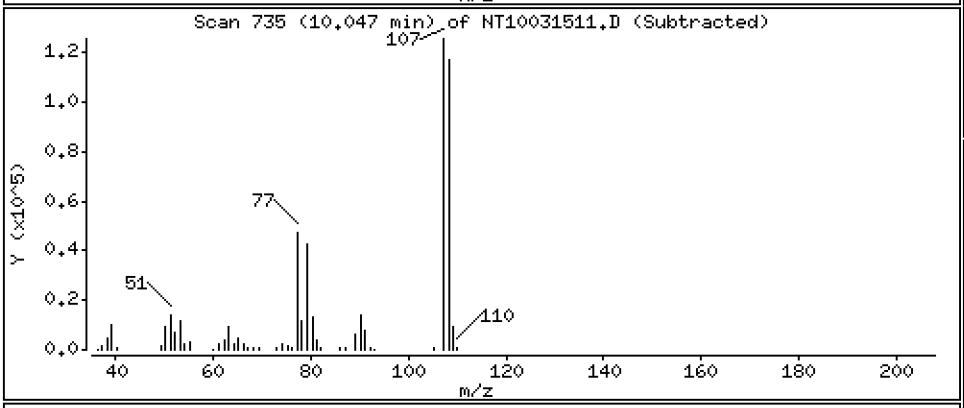
Column diameter: 0.25

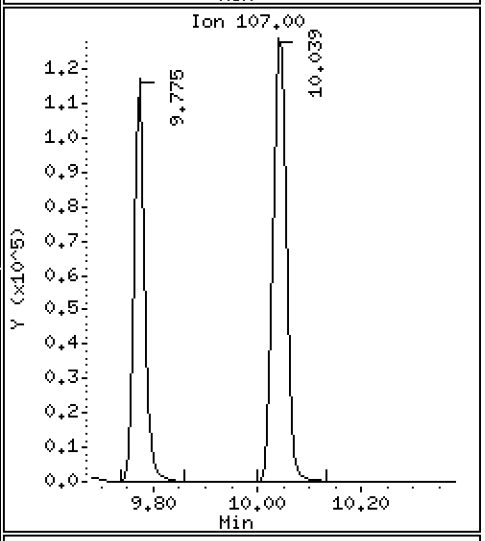
15 4-Methylphenol

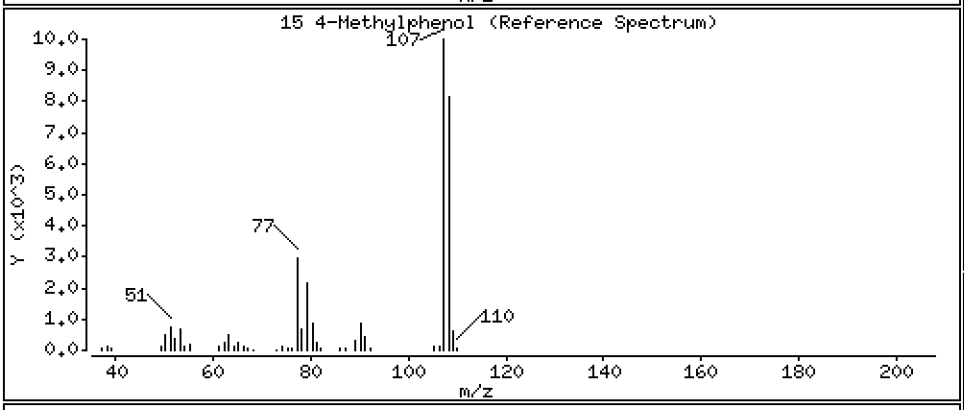
Concentration: 4.365 ug/mL

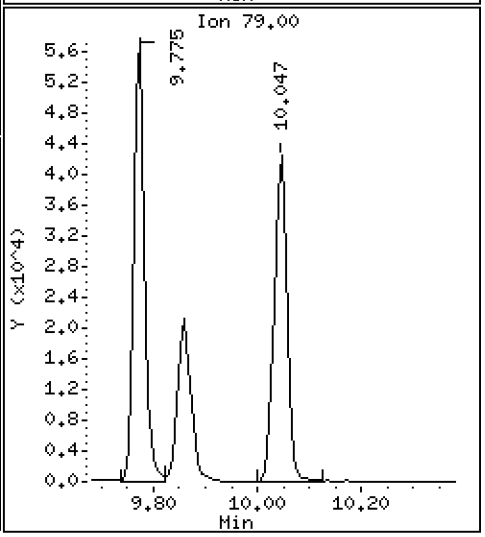


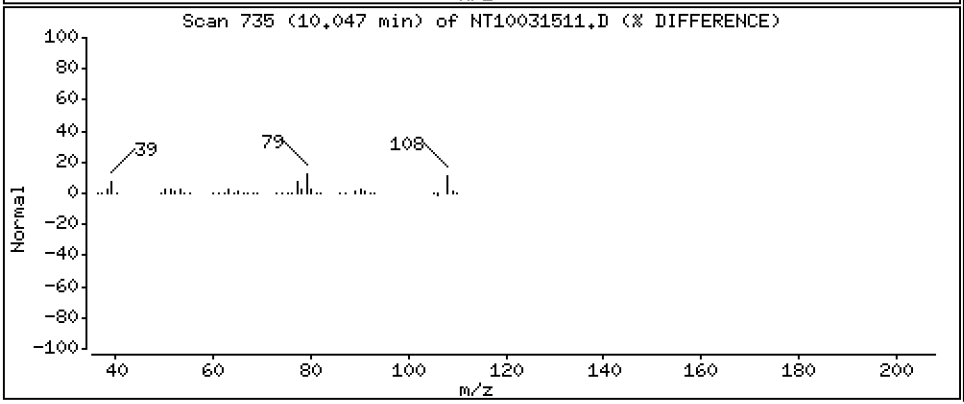












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

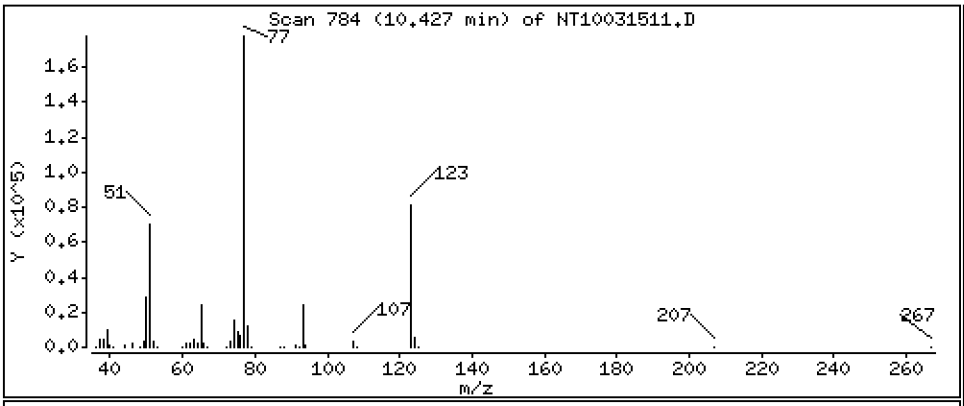
Operator: VTS

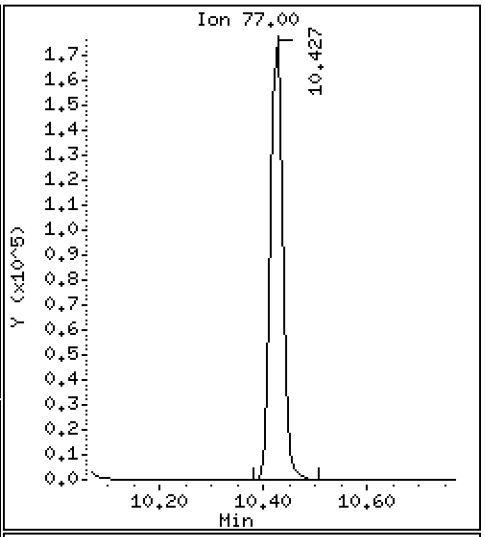
Column phase: ZB-5msi

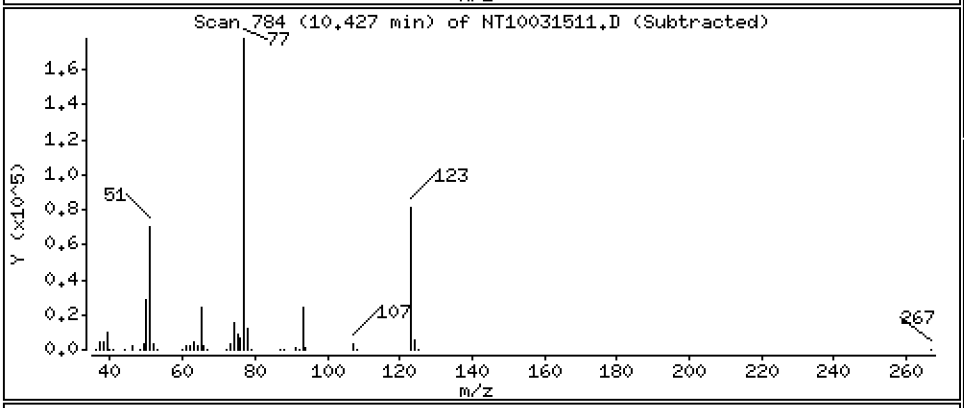
Column diameter: 0.25

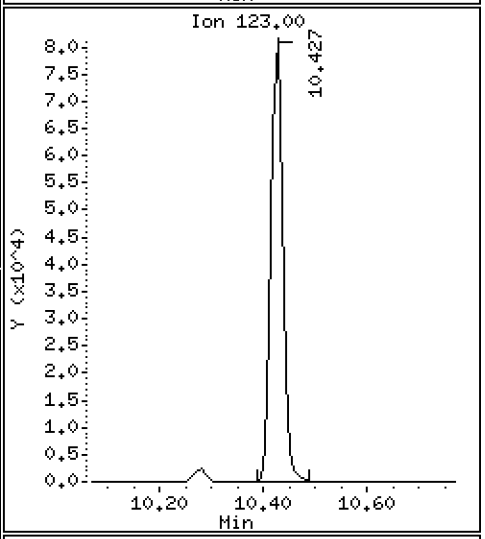
19 Nitrobenzene

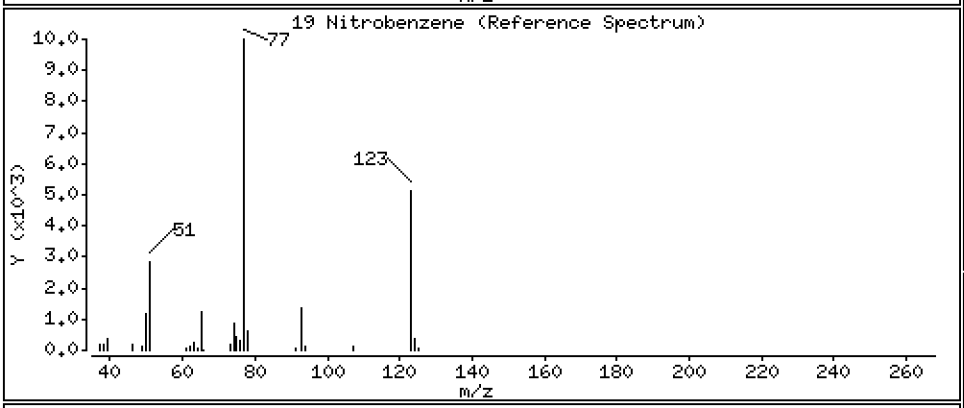
Concentration: 4.858 ug/mL

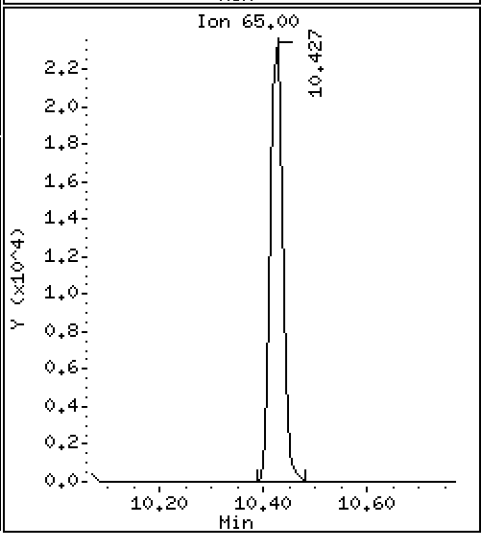


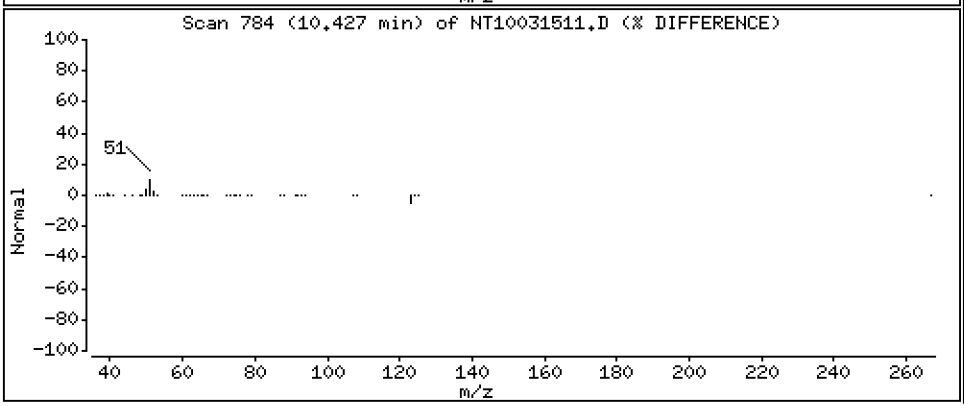












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

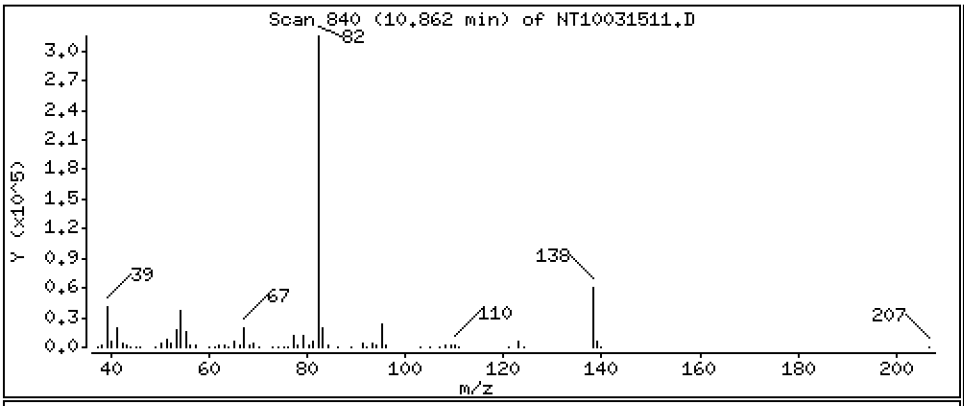
Operator: VTS

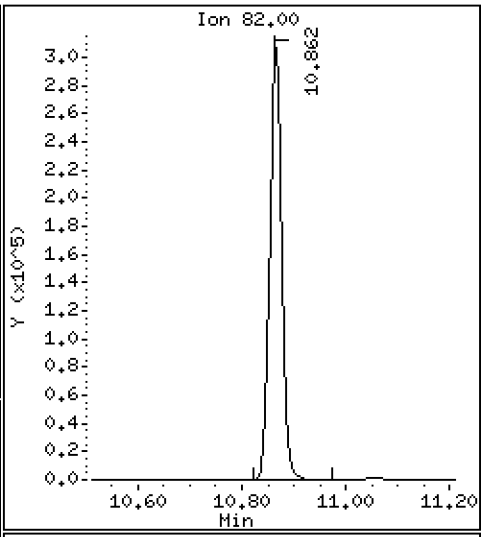
Column phase: ZB-5msi

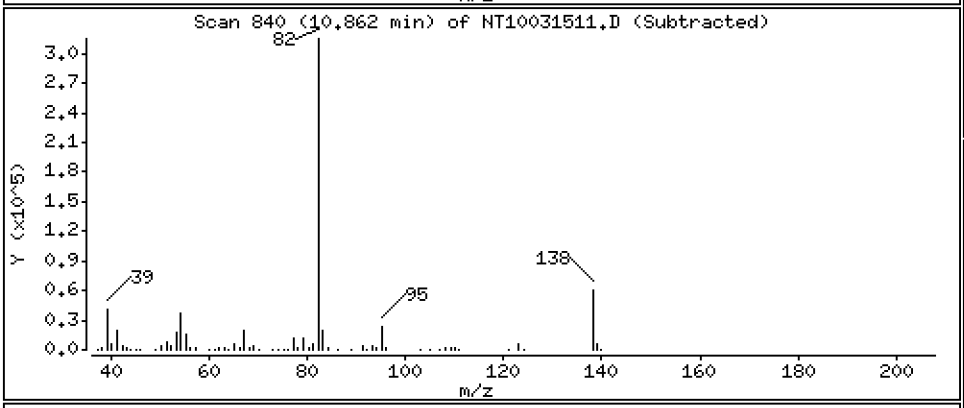
Column diameter: 0.25

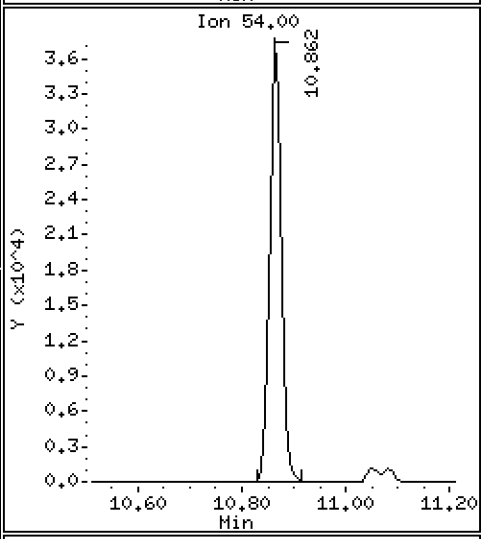
20 Isophorone

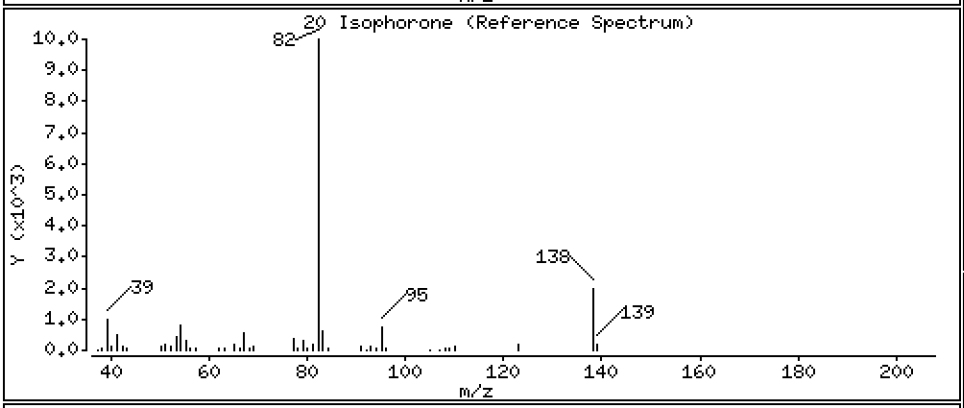
Concentration: 7.696 ug/mL

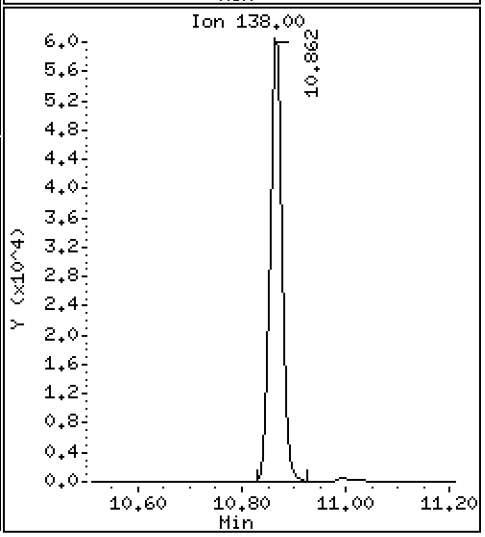


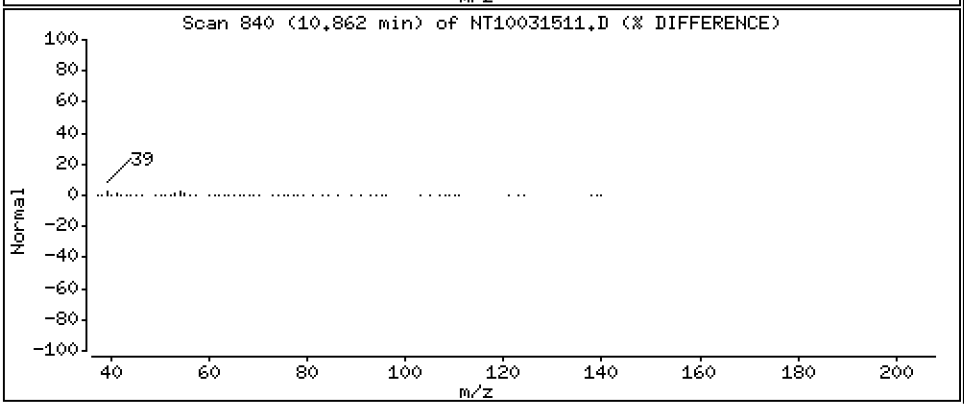












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

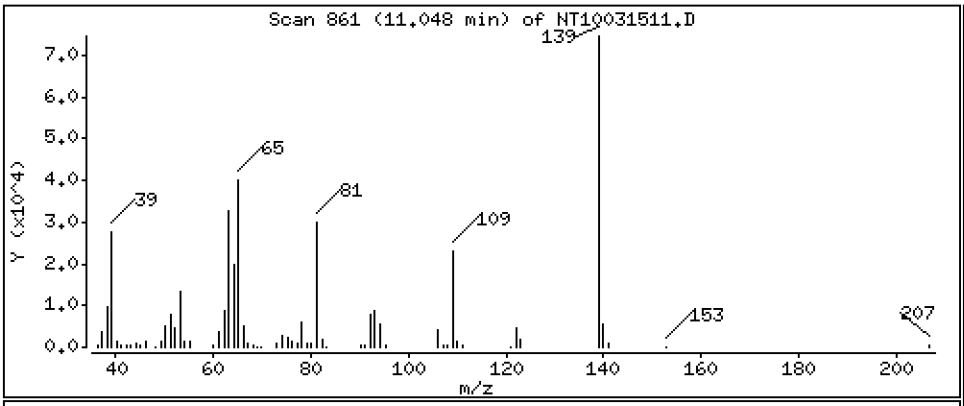
Operator: VTS

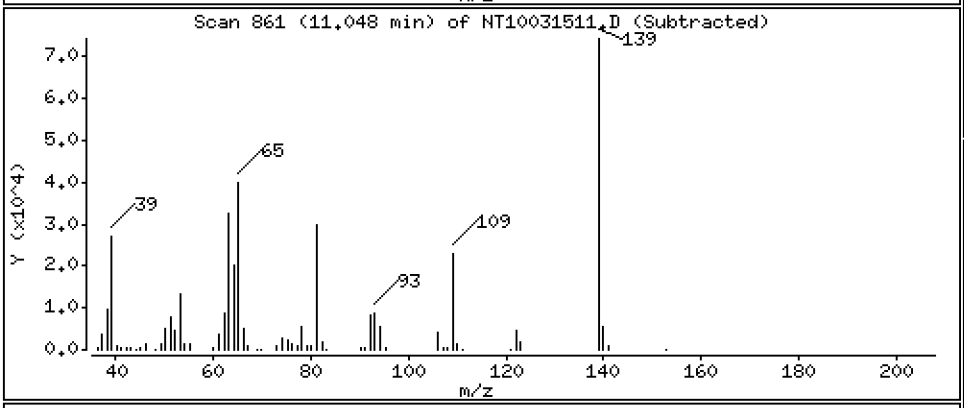
Column phase: ZB-5msi

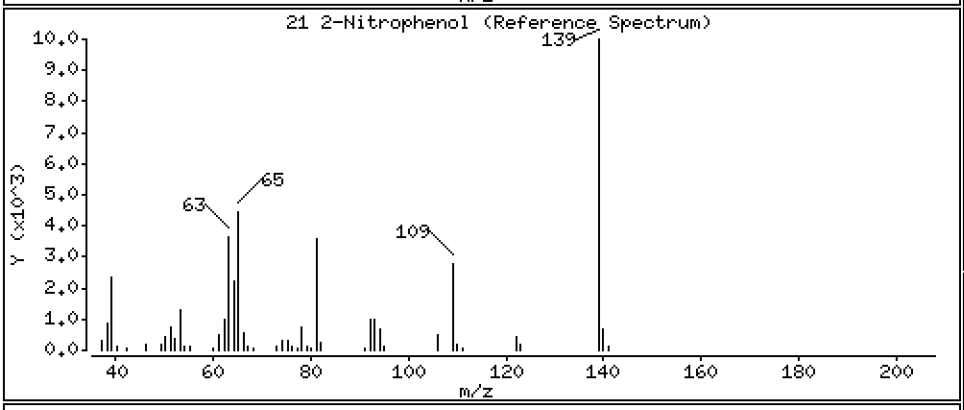
Column diameter: 0.25

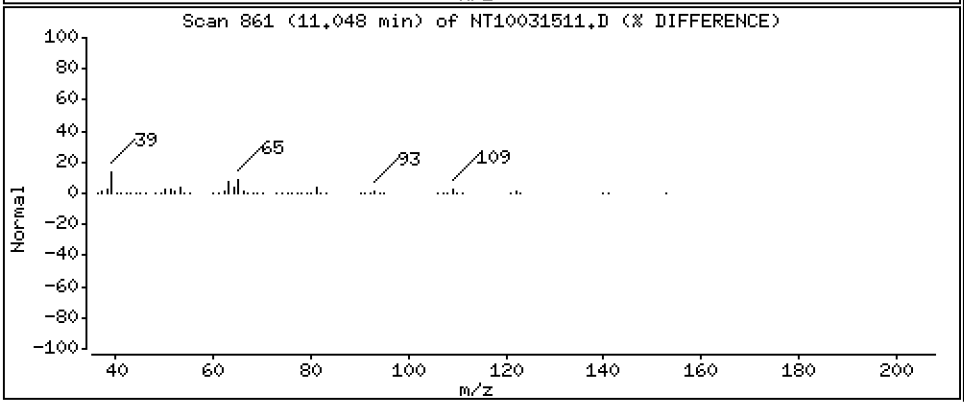
21 2-Nitrophenol

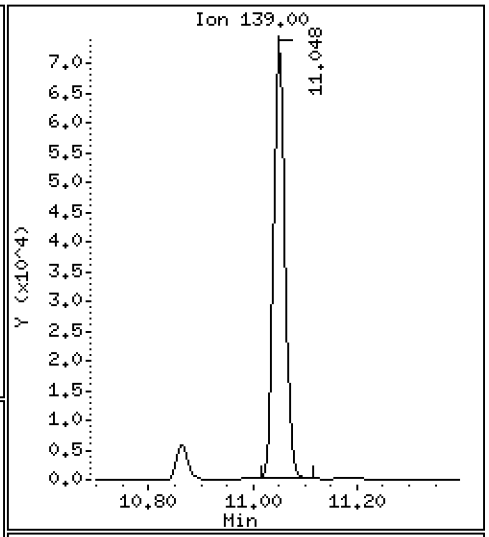
Concentration: 3.995 ug/mL

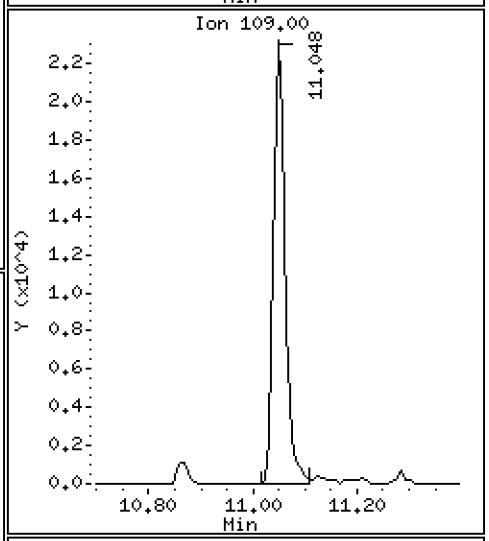


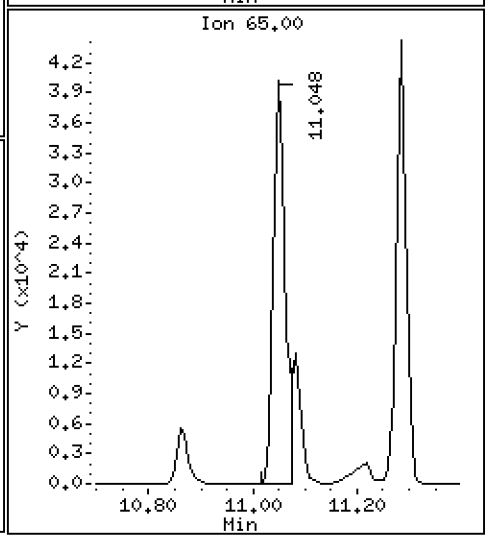












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

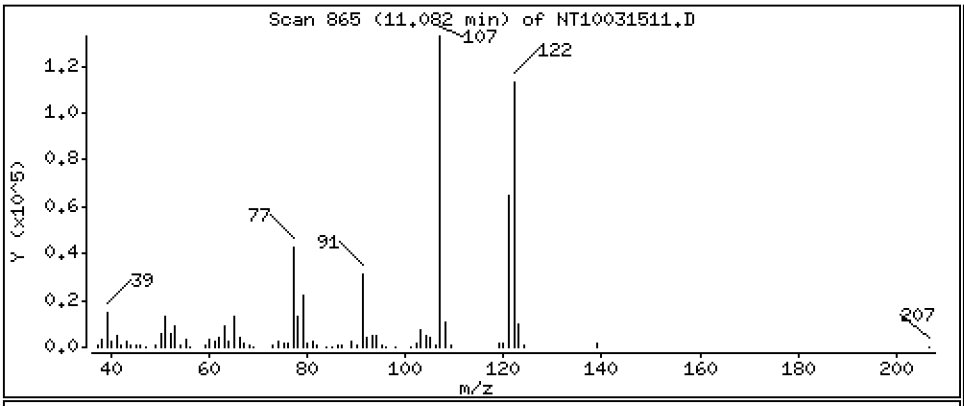
Operator: VTS

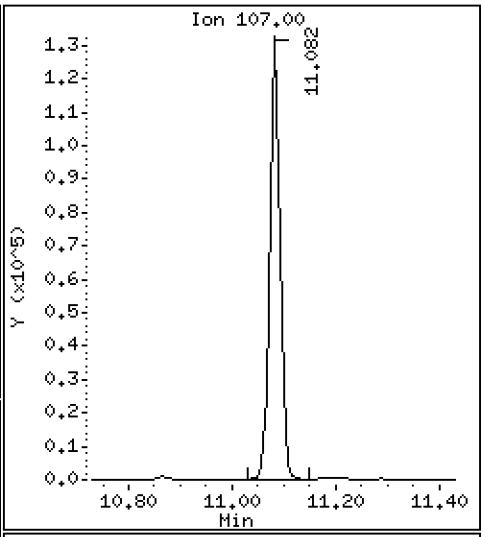
Column phase: ZB-5msi

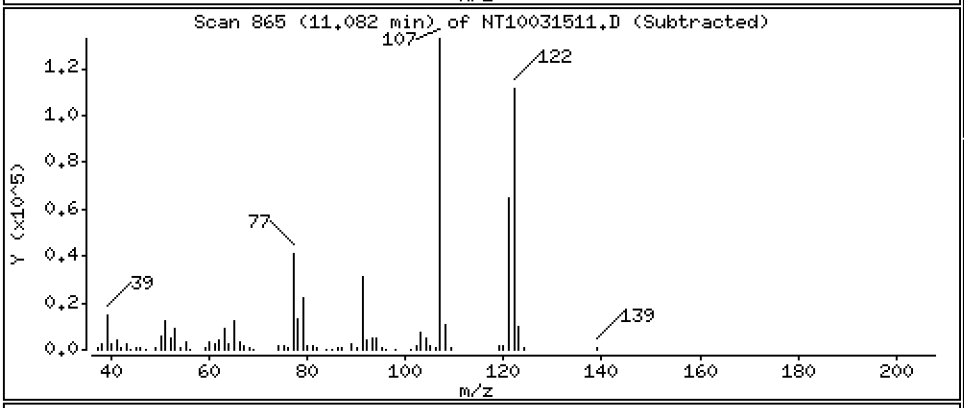
Column diameter: 0.25

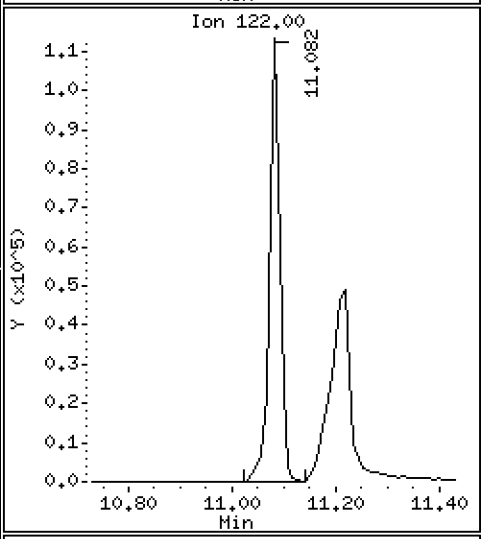
22 2,4-Dimethylphenol

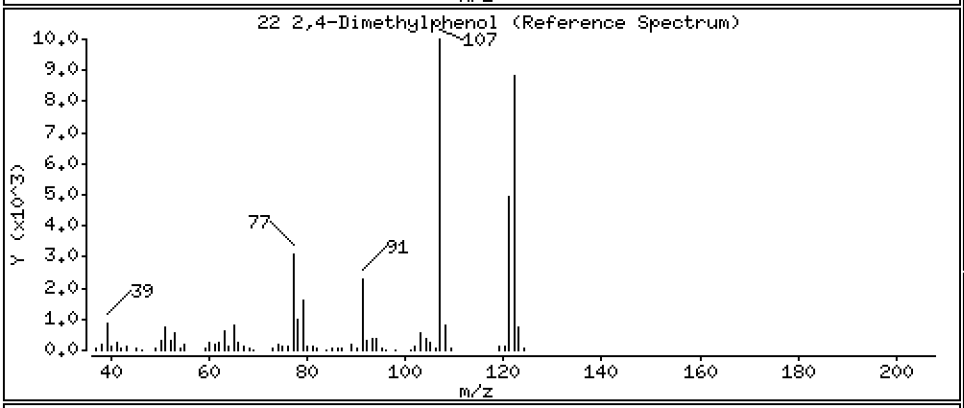
Concentration: 3.632 ug/mL

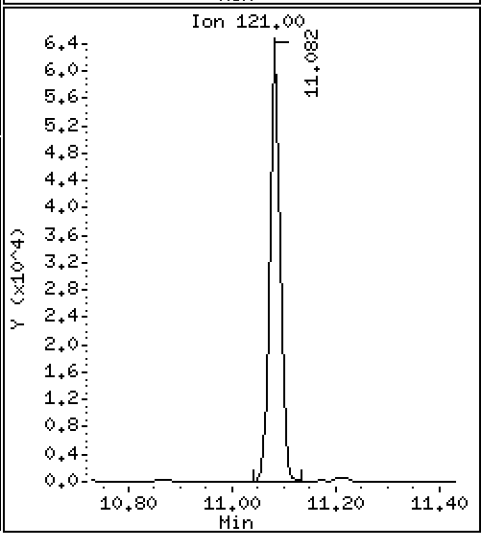


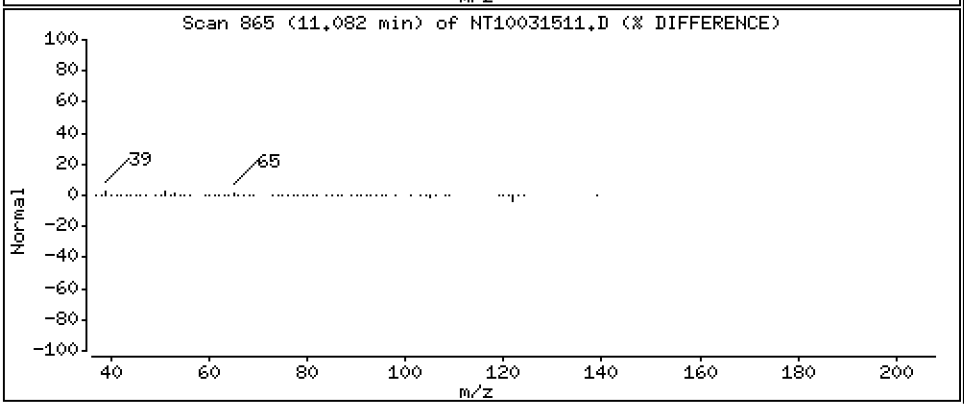












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

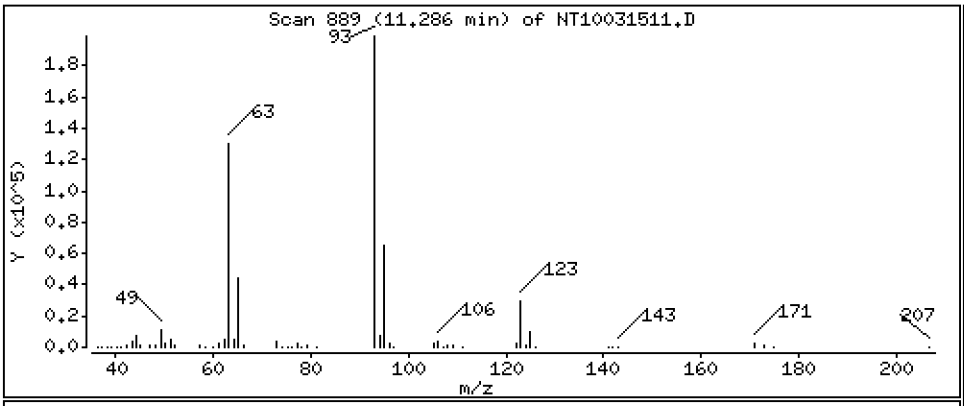
Operator: VTS

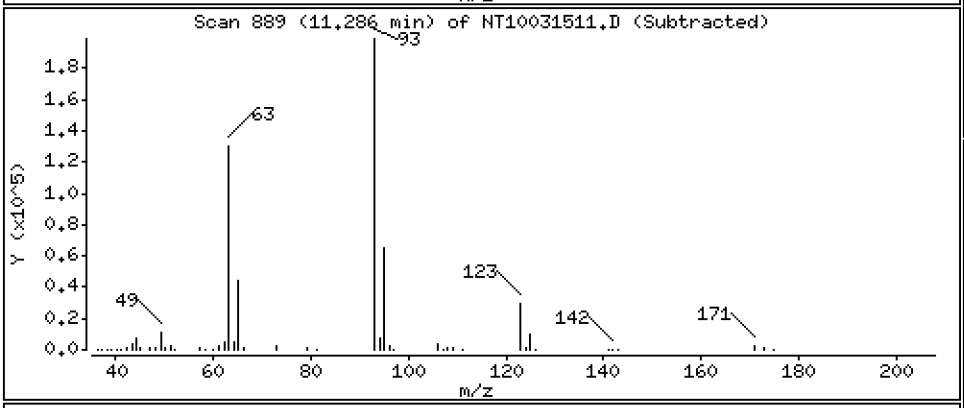
Column phase: ZB-5msi

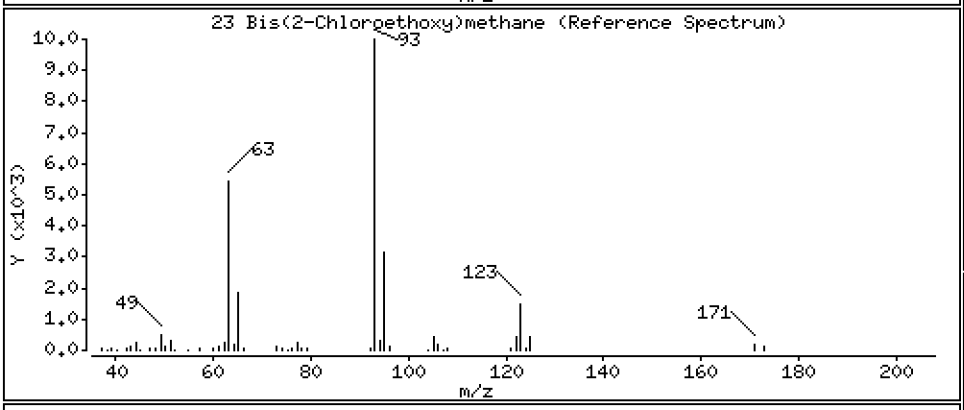
Column diameter: 0.25

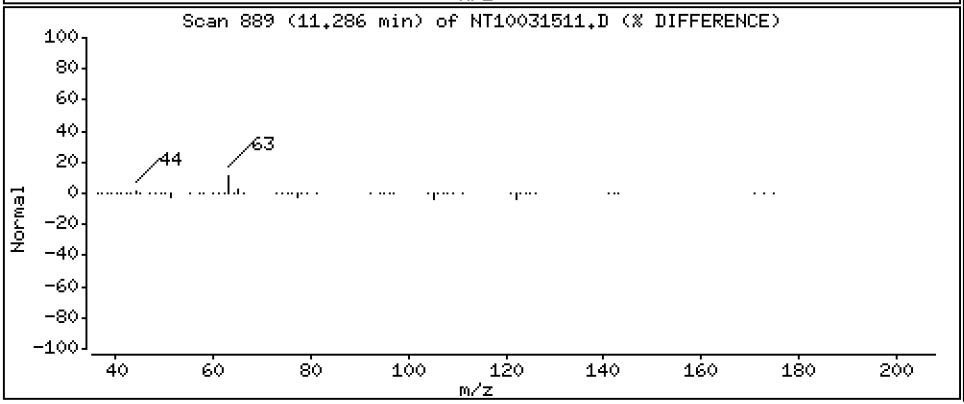
23 Bis(2-Chloroethoxy)methane

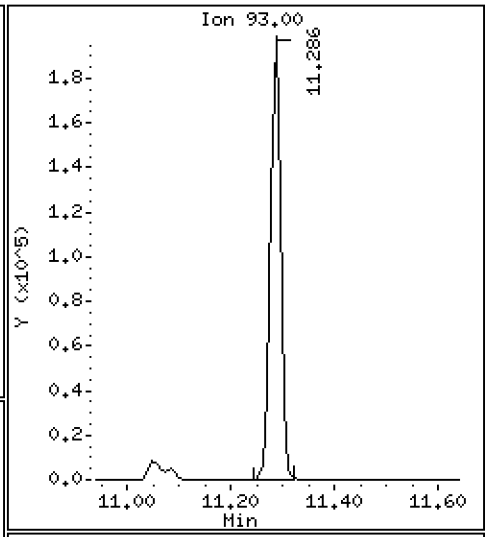
Concentration: 5.654 ug/mL

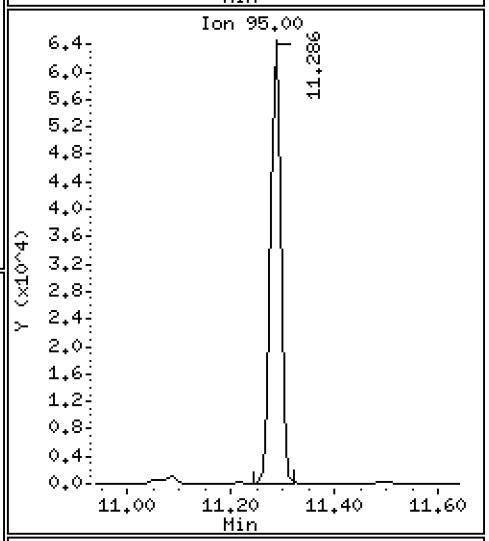


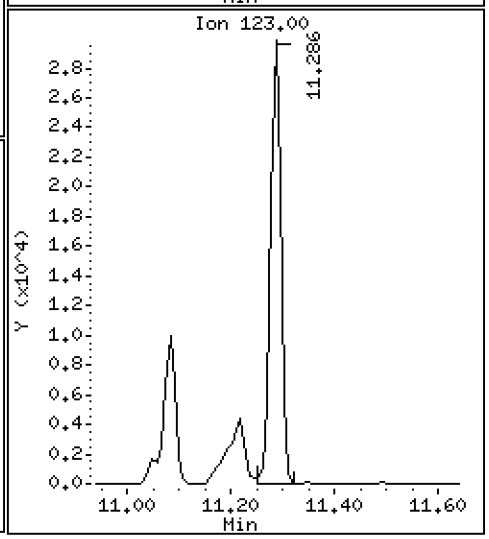












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

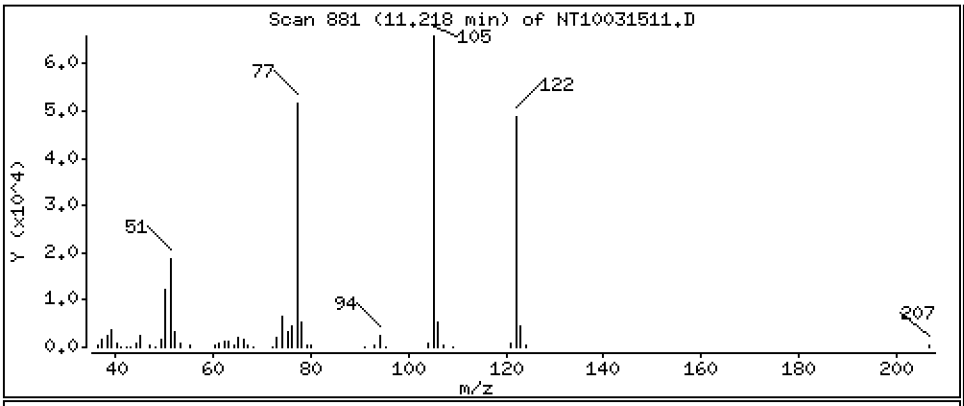
Operator: VTS

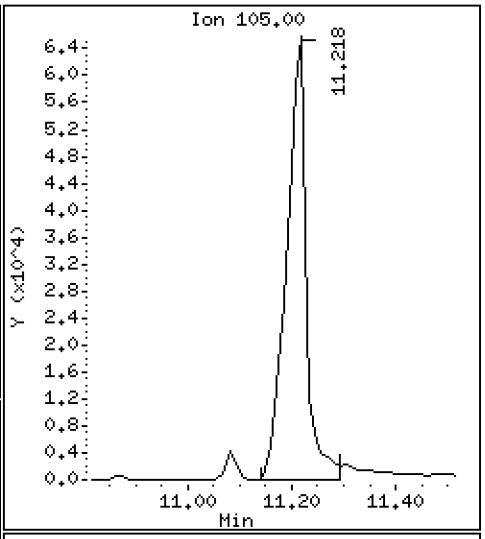
Column phase: ZB-5msi

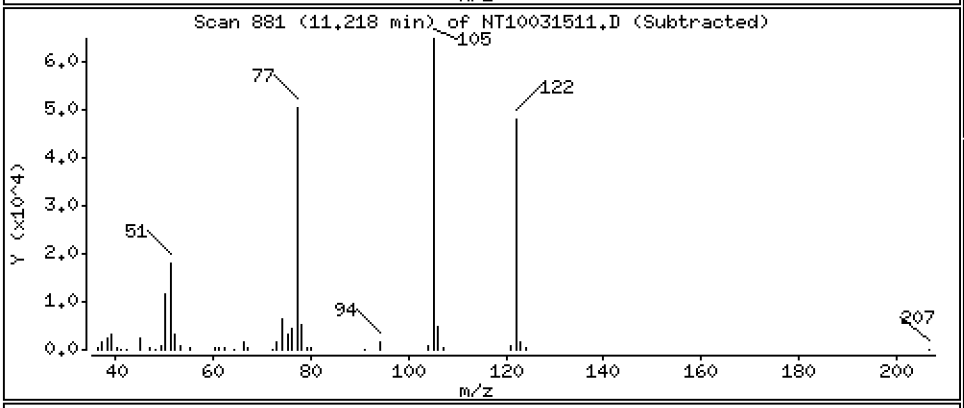
Column diameter: 0.25

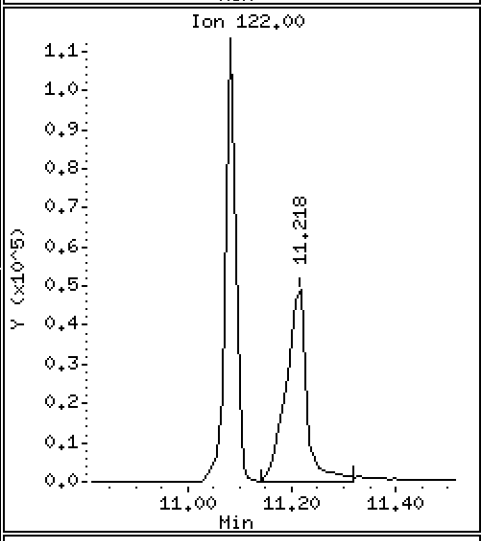
24 Benzoic acid

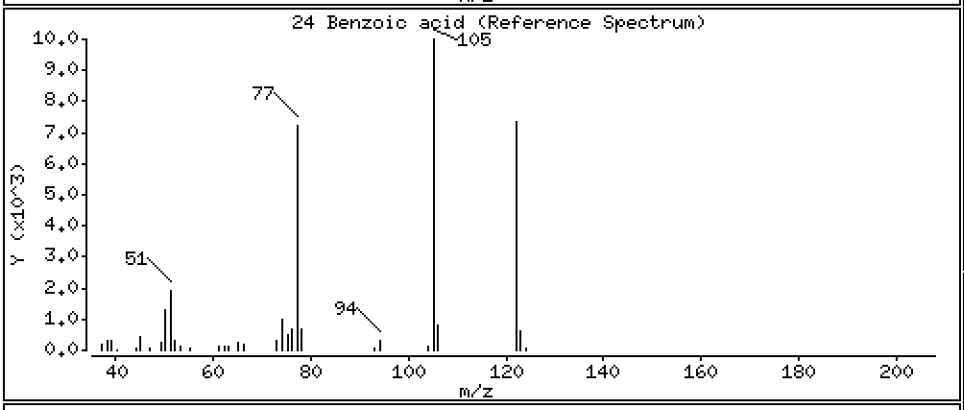
Concentration: 5.952 ug/mL

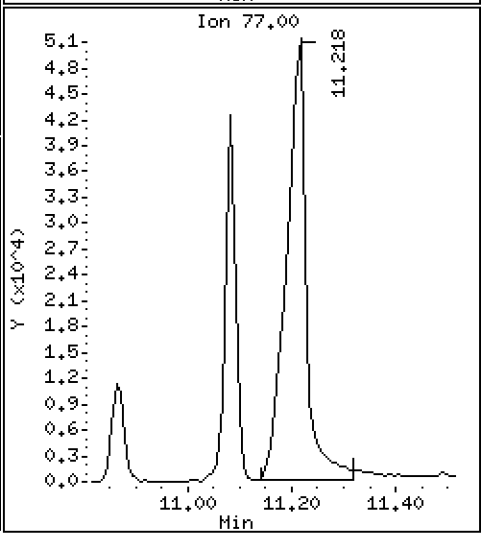


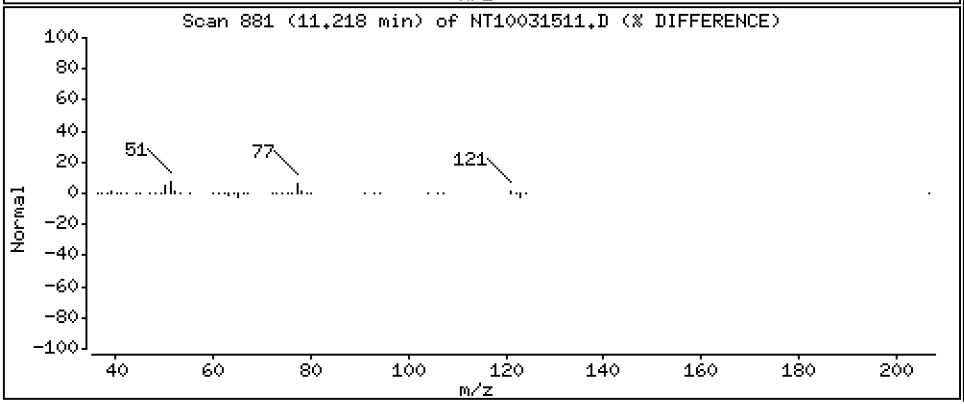












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

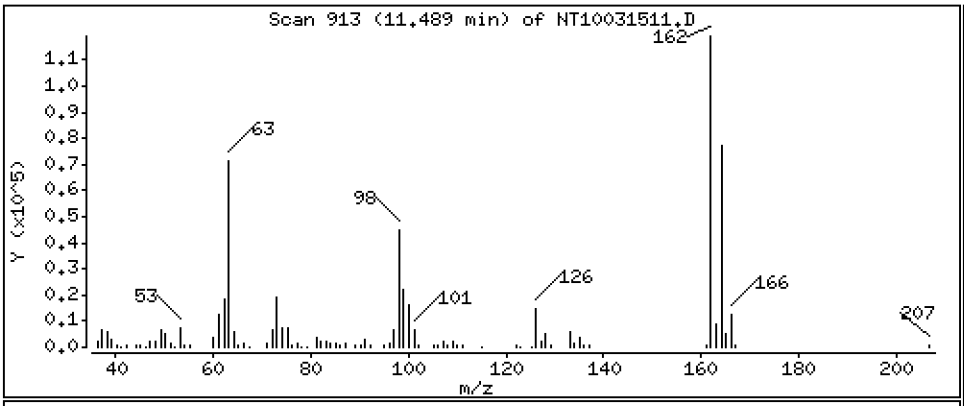
Operator: VTS

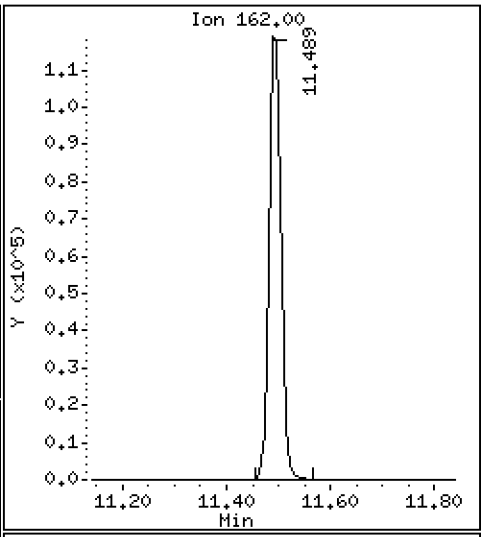
Column phase: ZB-5msi

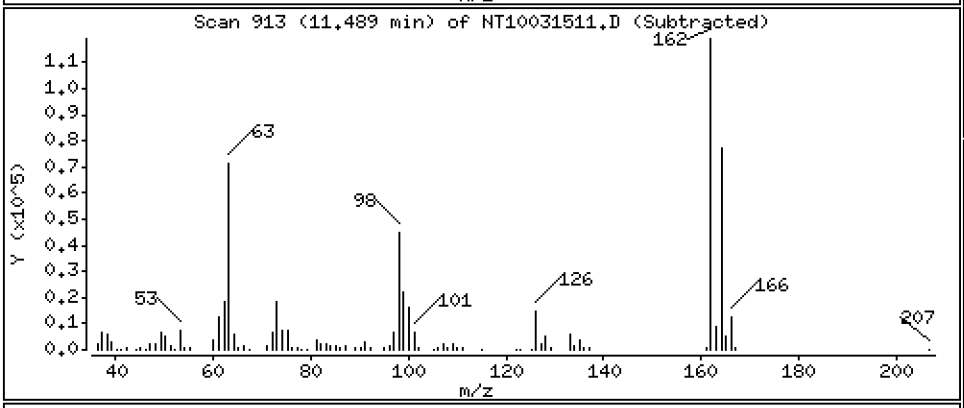
Column diameter: 0.25

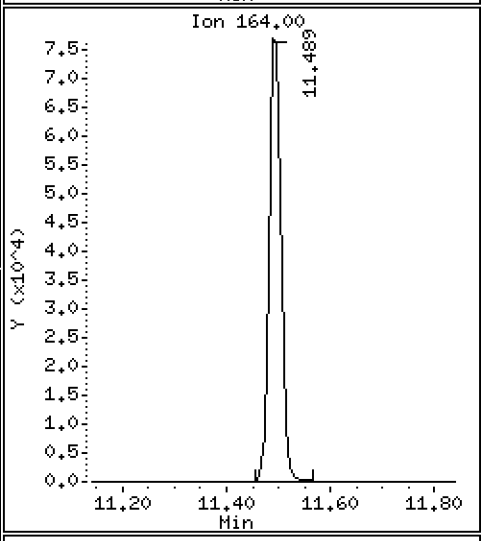
25 2,4-Dichlorophenol

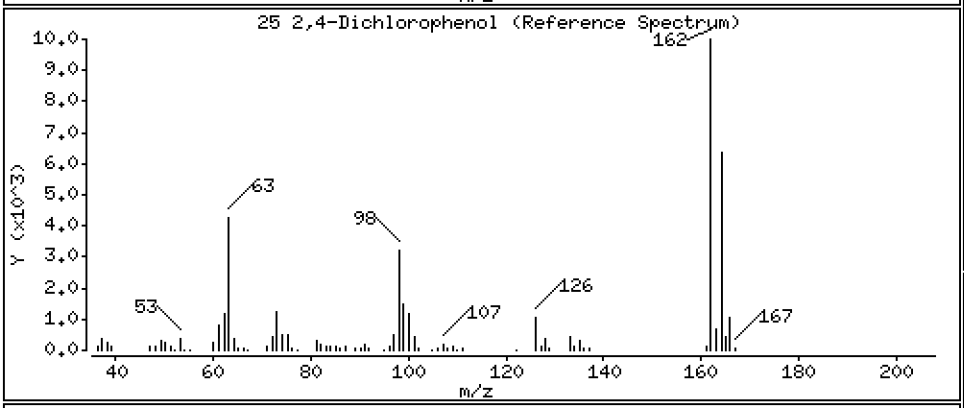
Concentration: 4.703 ug/mL

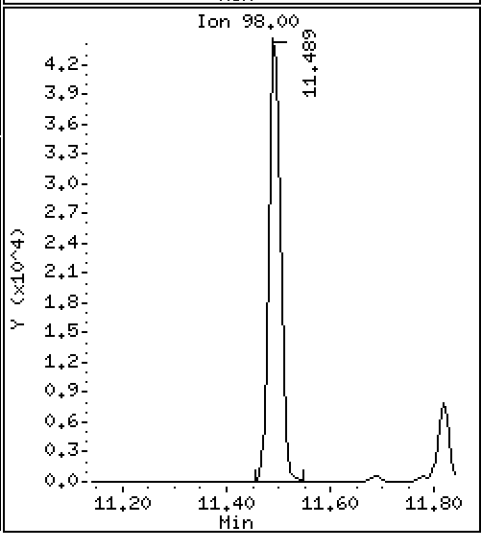


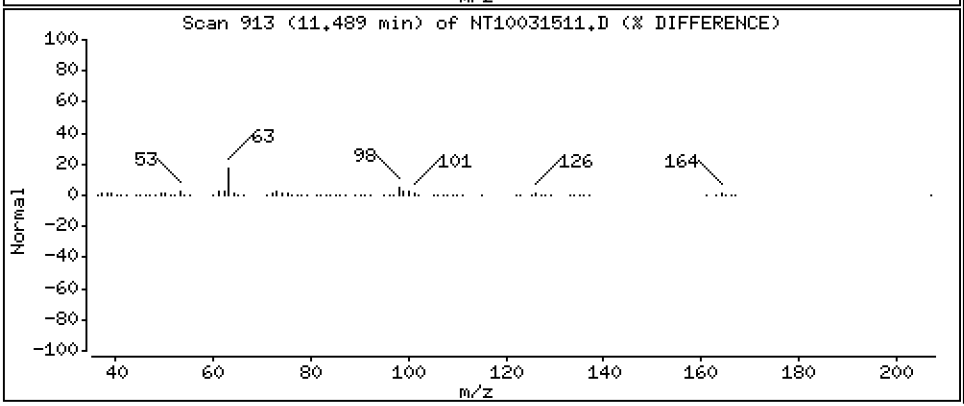












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

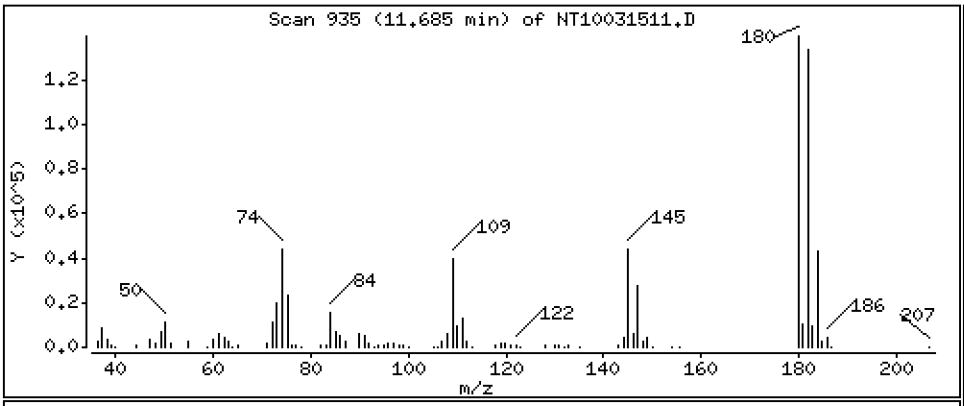
Operator: VTS

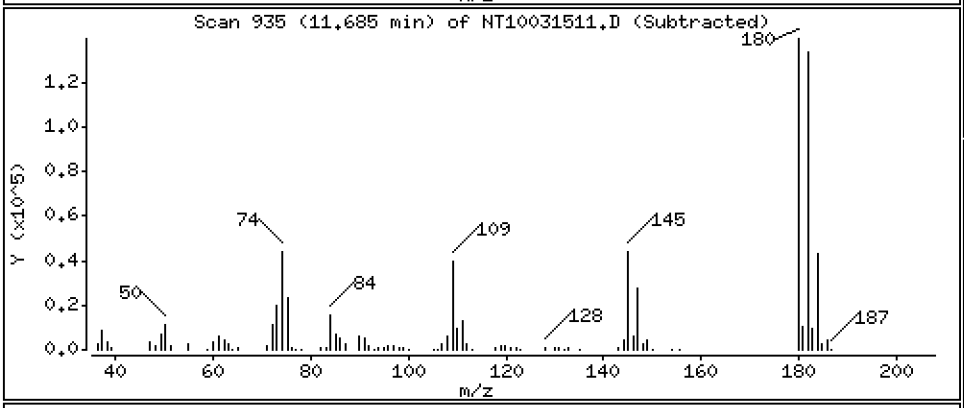
Column phase: ZB-5msi

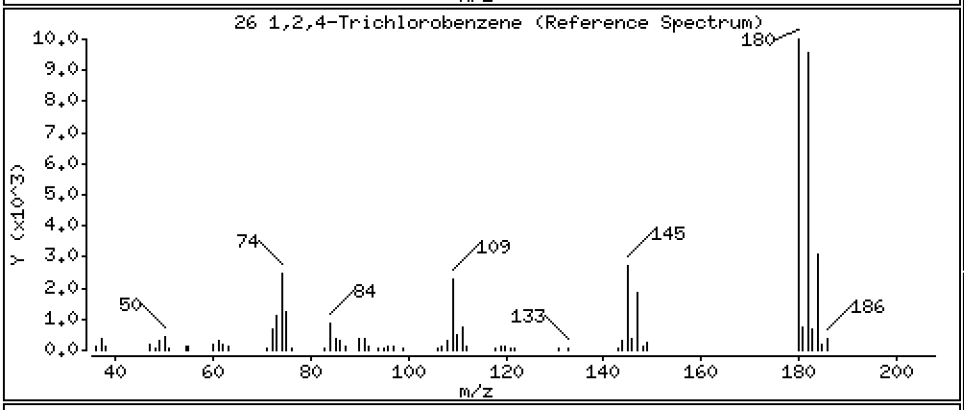
Column diameter: 0.25

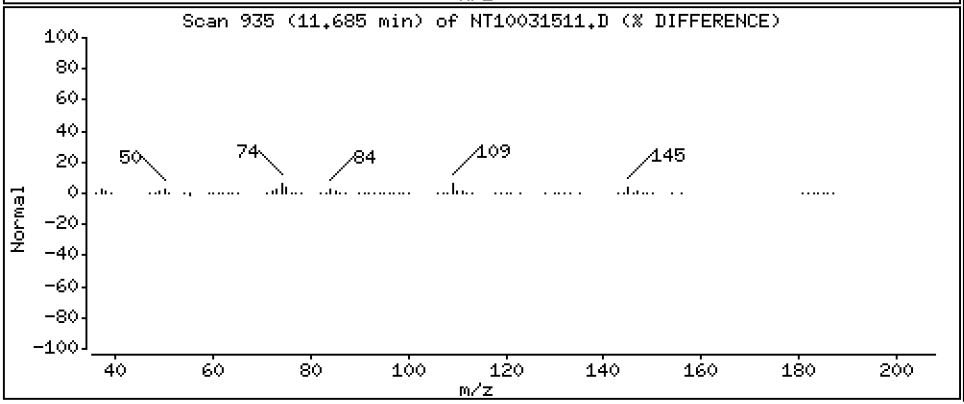
26 1,2,4-Trichlorobenzene

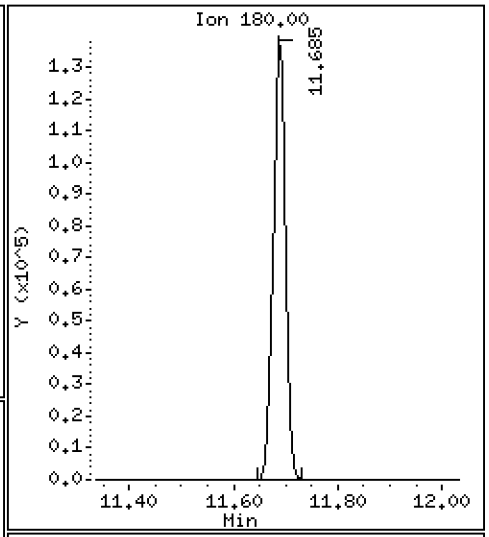
Concentration: 4.554 ug/mL

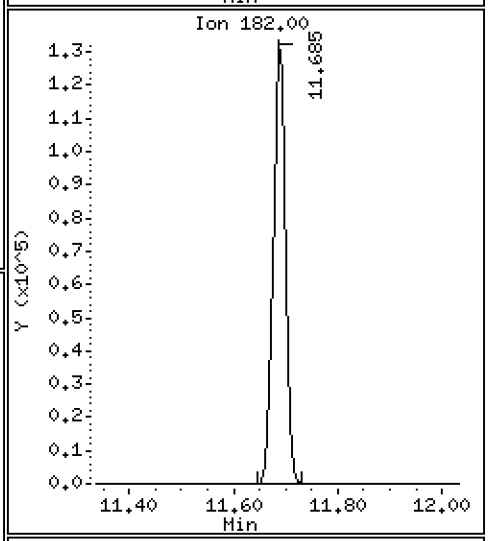


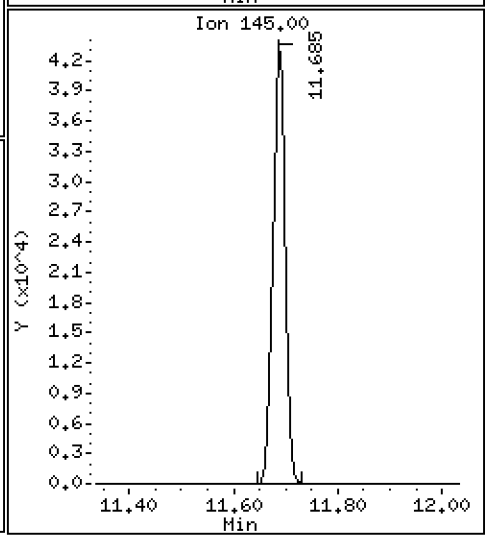












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

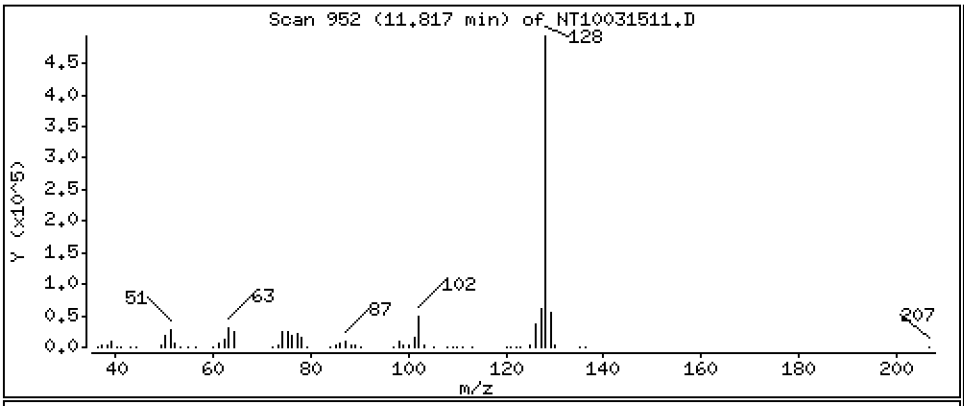
Operator: VTS

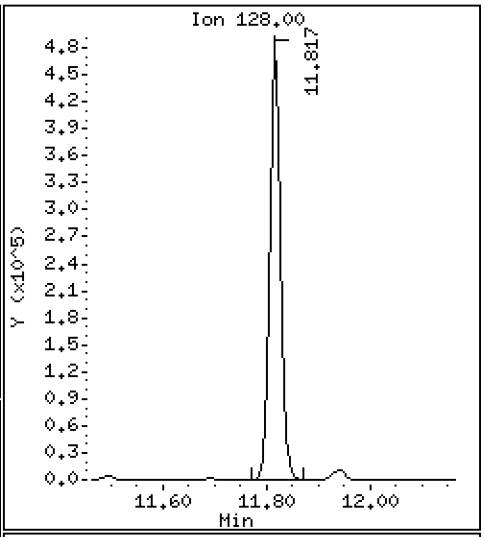
Column phase: ZB-5msi

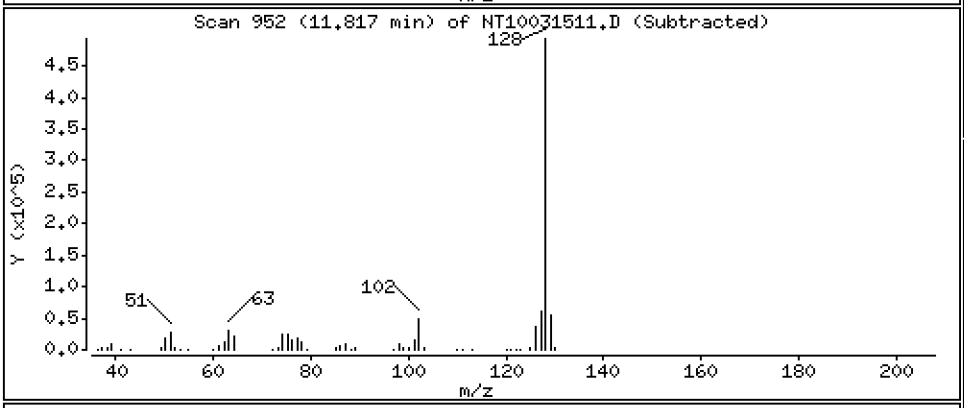
Column diameter: 0.25

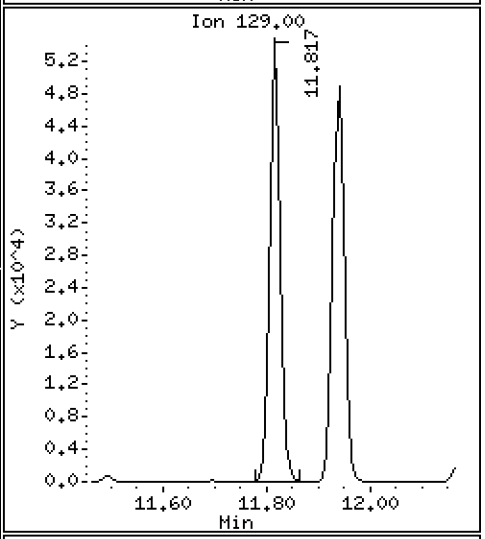
28 Naphthalene

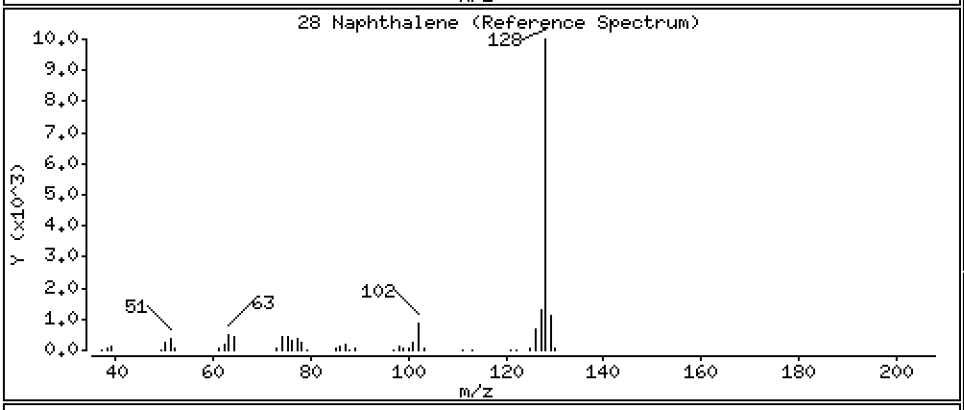
Concentration: 4.717 ug/mL

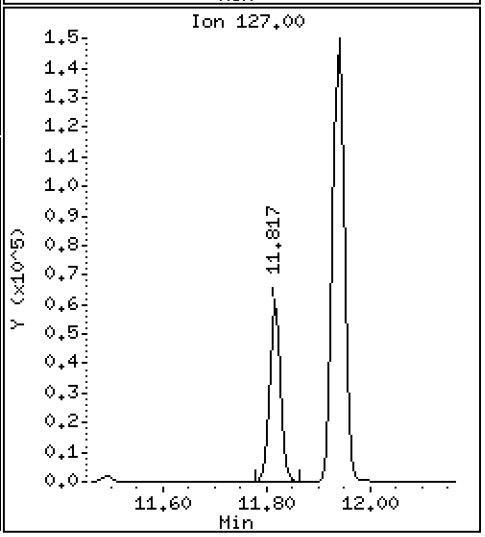


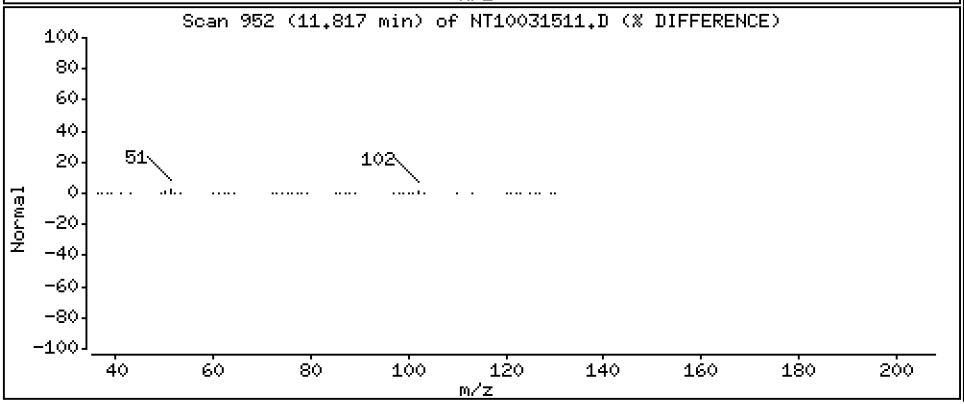












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

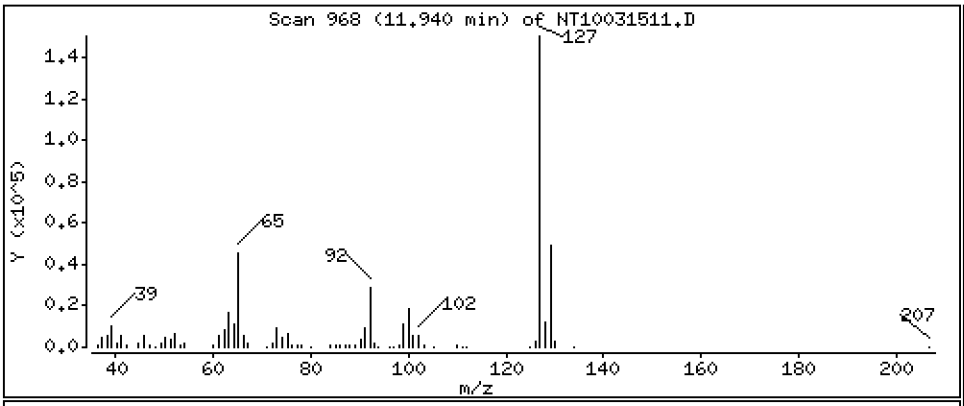
Operator: VTS

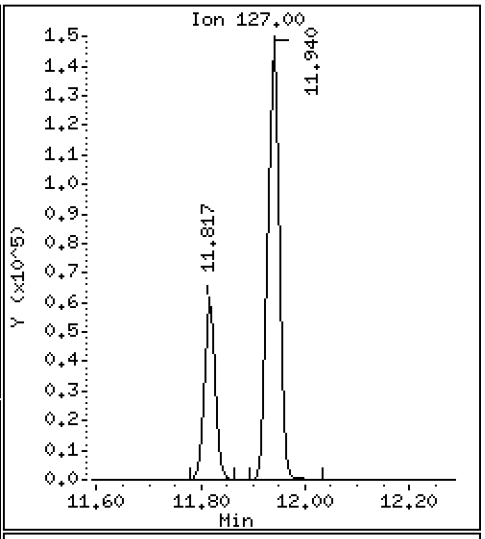
Column phase: ZB-5msi

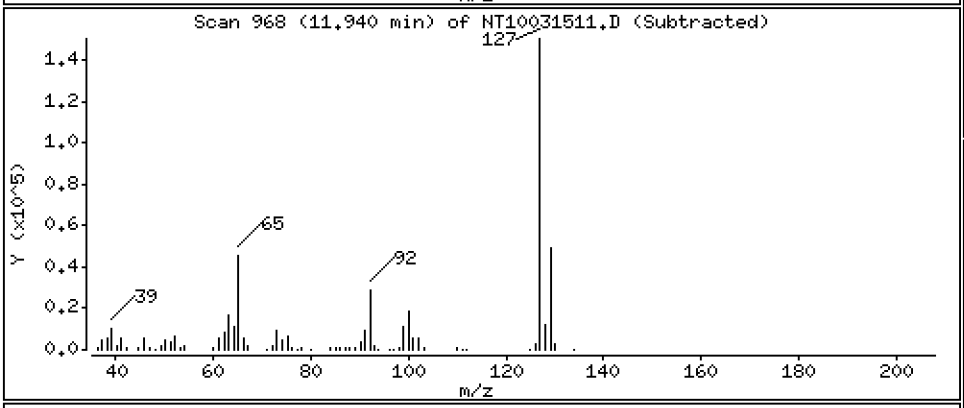
Column diameter: 0.25

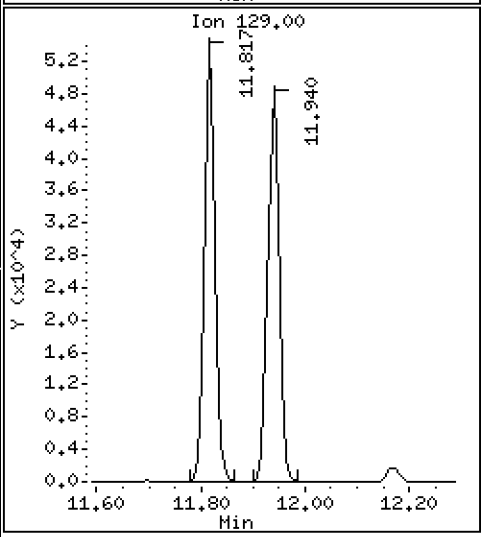
29 4-Chloroaniline

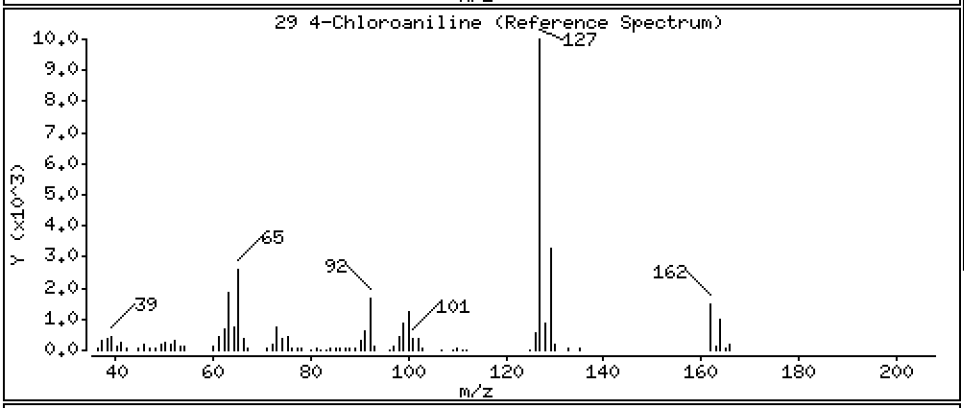
Concentration: 3.787 ug/mL

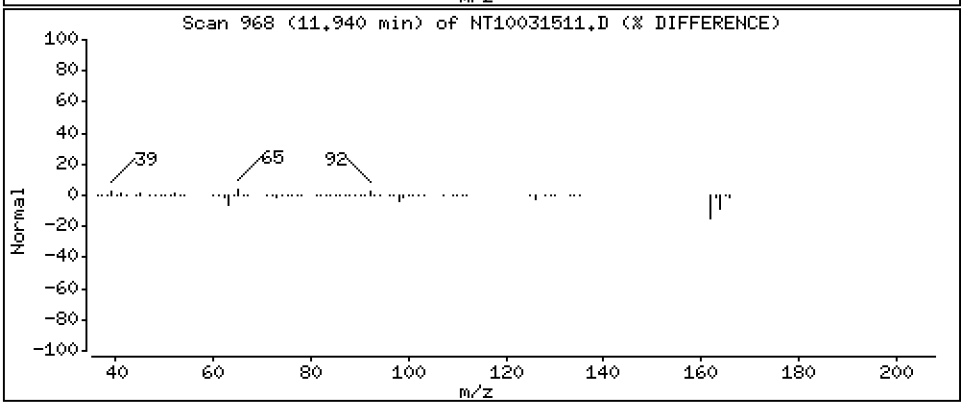












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

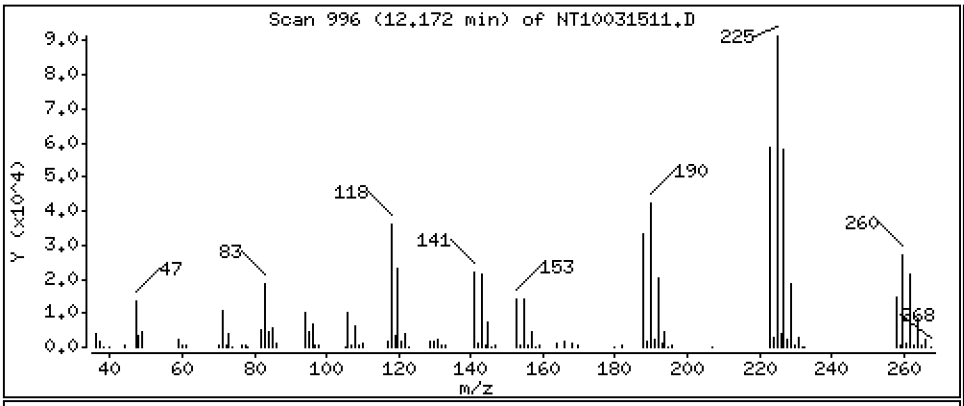
Operator: VTS

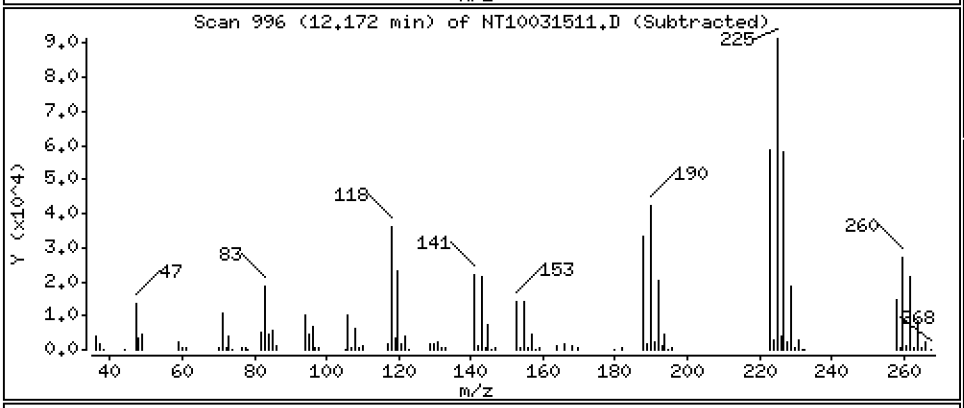
Column phase: ZB-5msi

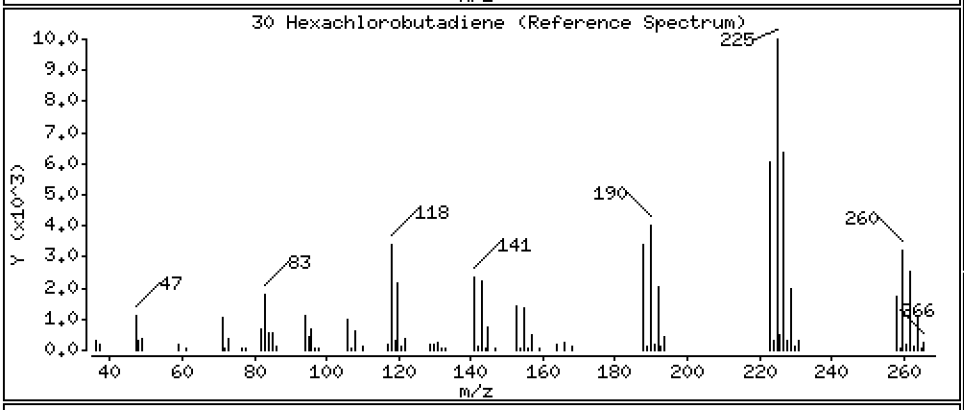
Column diameter: 0.25

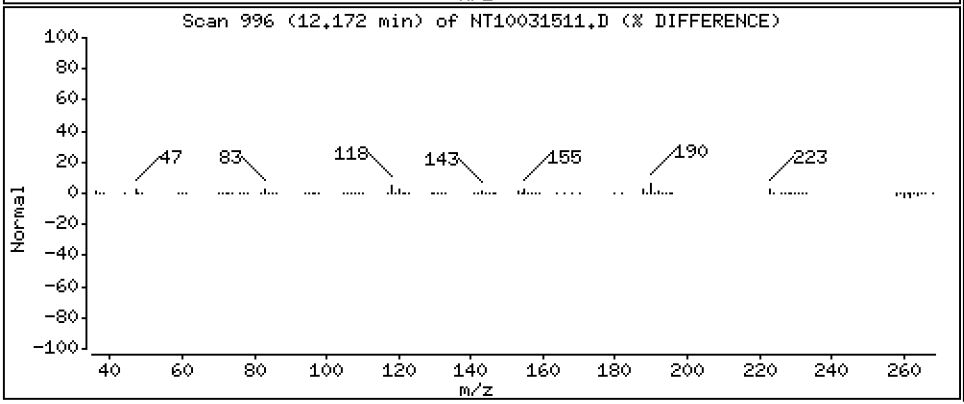
30 Hexachlorobutadiene

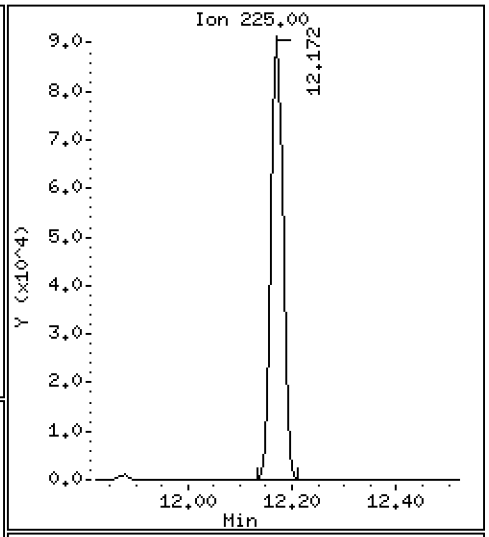
Concentration: 4.834 ug/mL

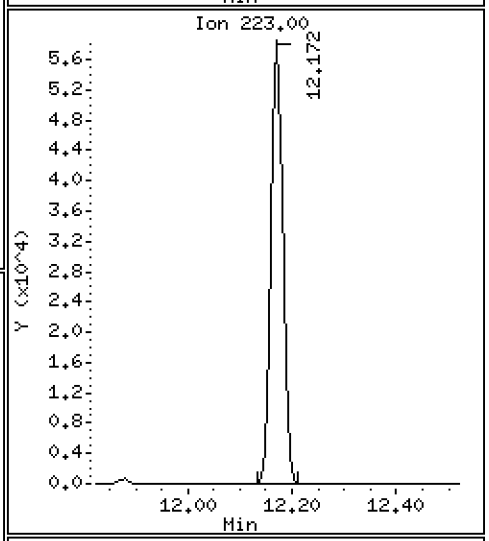


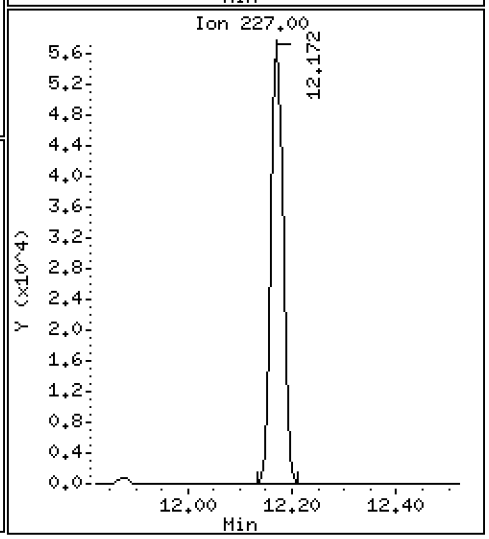












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

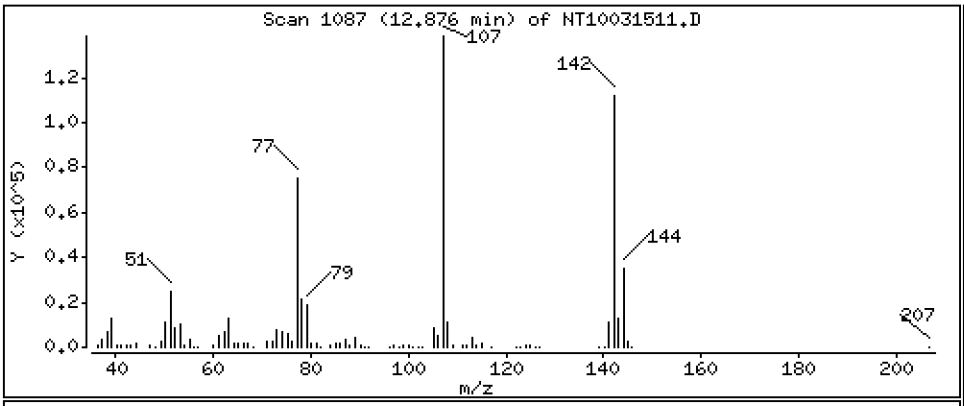
Operator: VTS

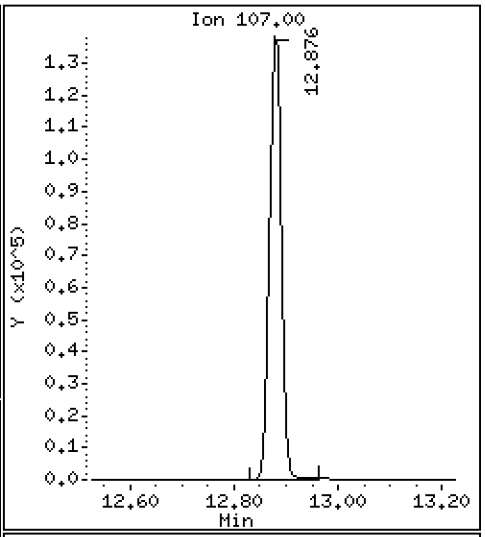
Column phase: ZB-5msi

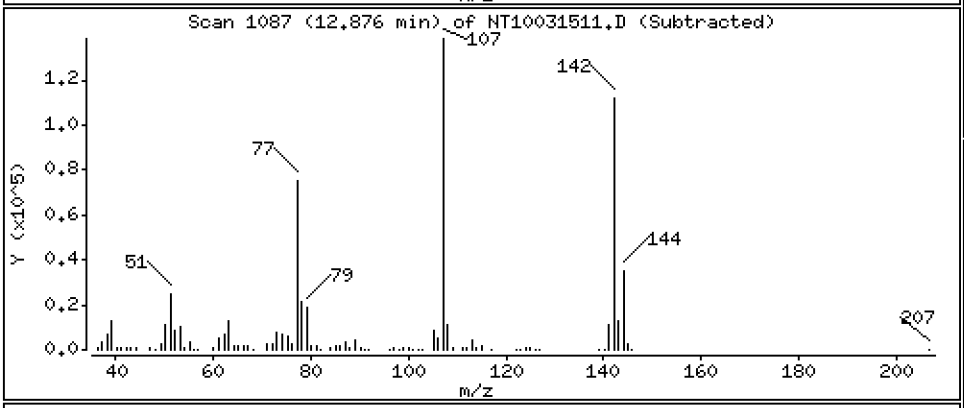
Column diameter: 0.25

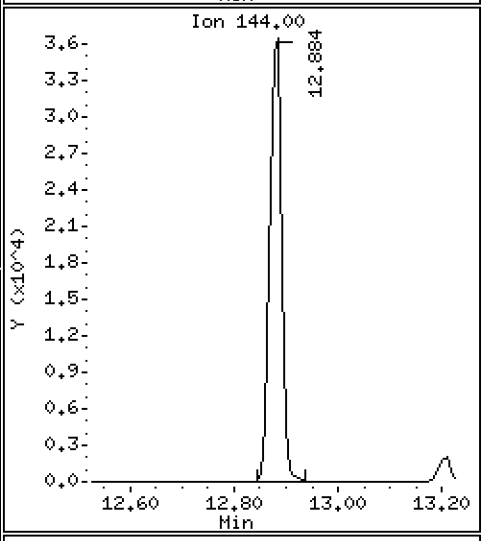
31 4-Chloro-3-methylphenol

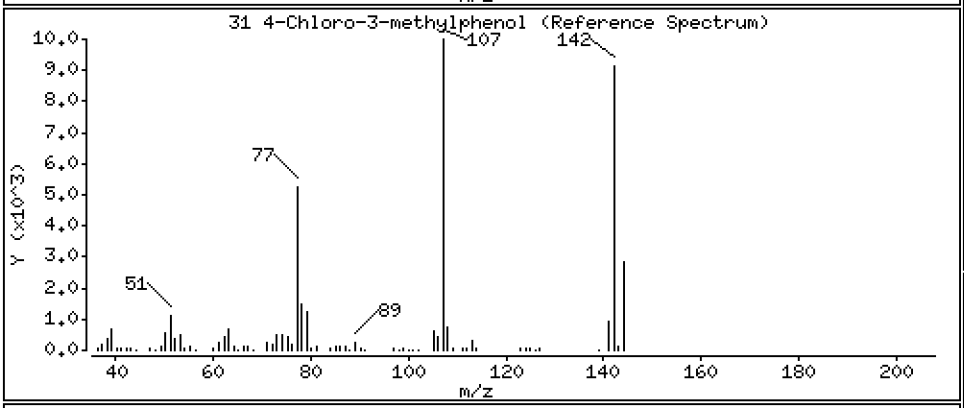
Concentration: 4.640 ug/mL

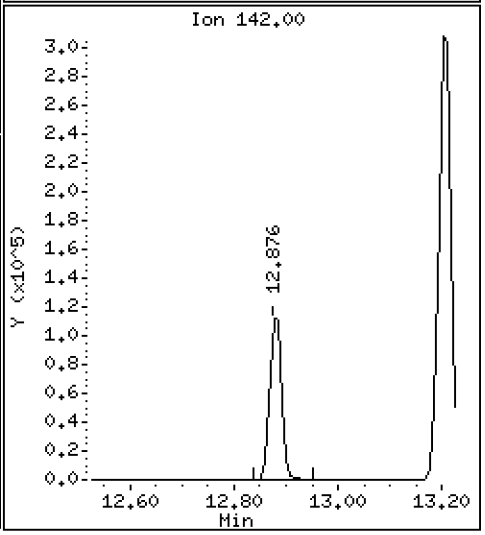


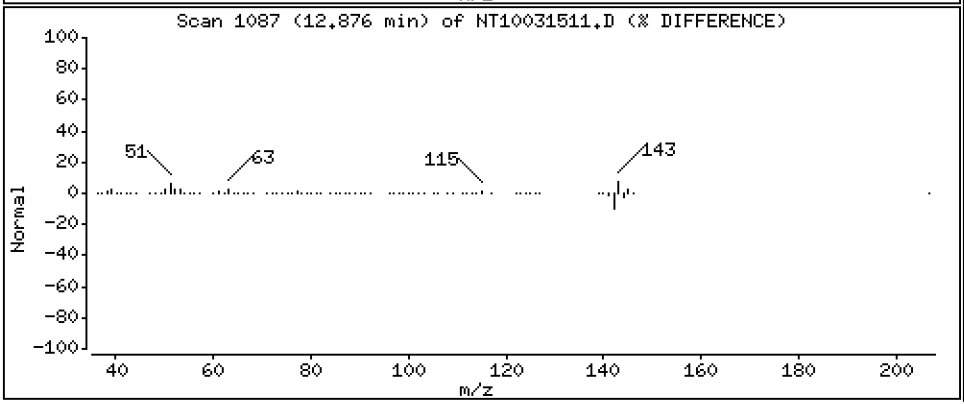












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

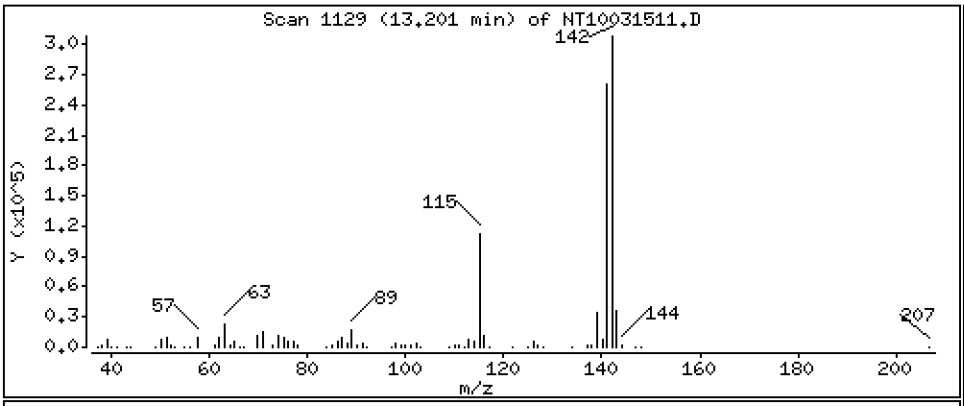
Operator: VTS

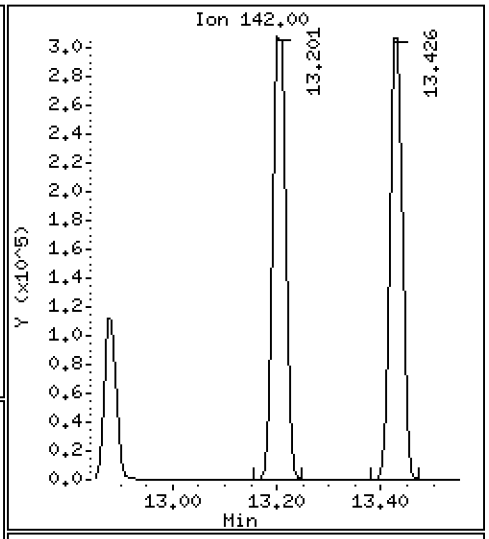
Column phase: ZB-5msi

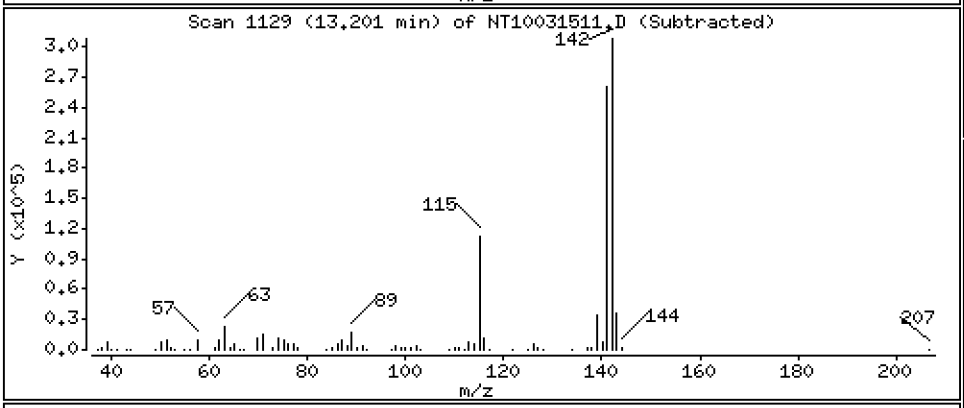
Column diameter: 0.25

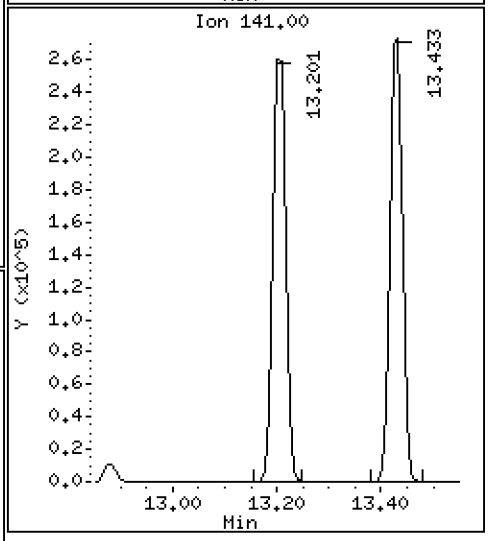
32 2-Methylnaphthalene

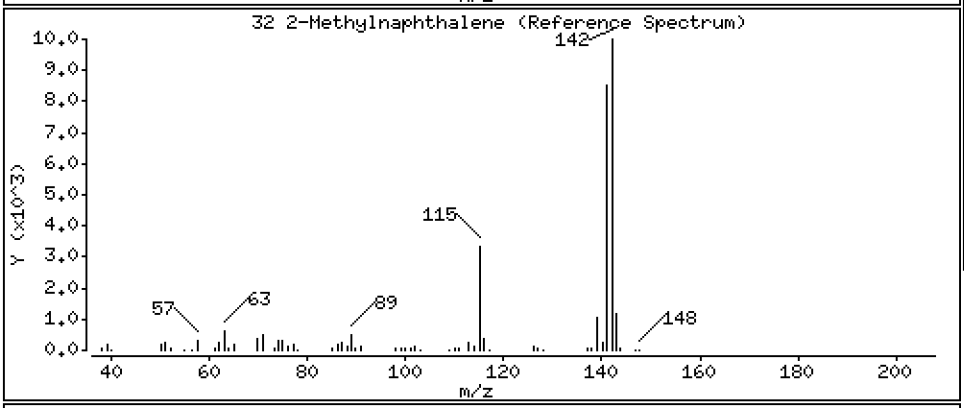
Concentration: 4.596 ug/mL

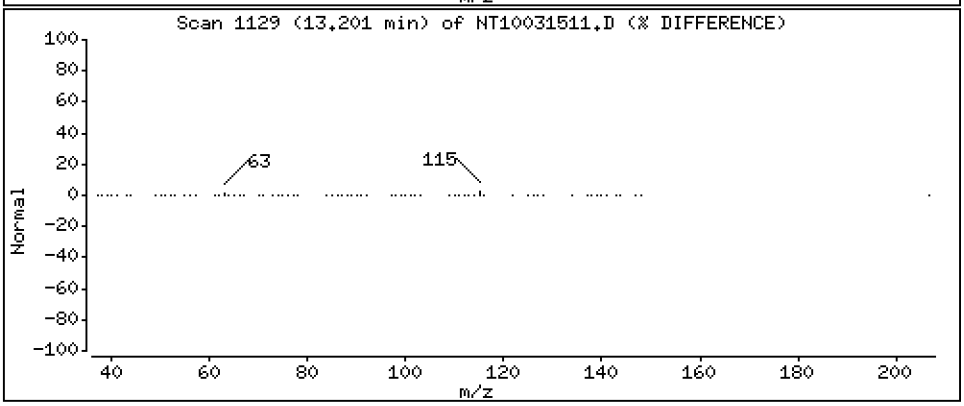












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

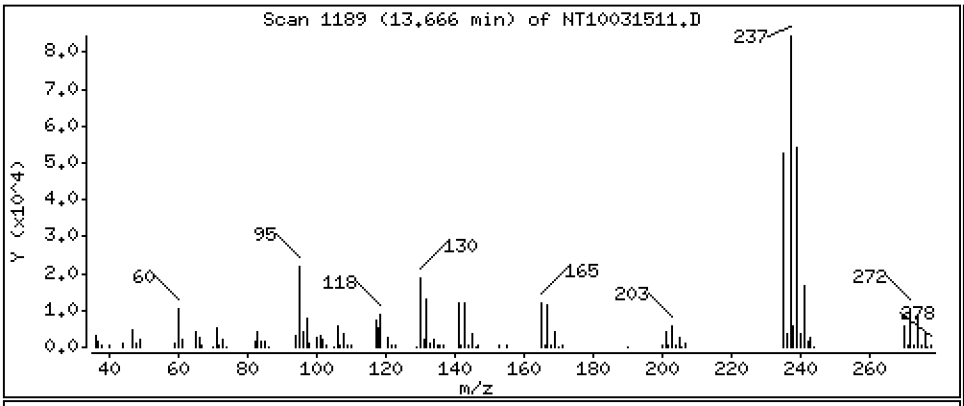
Operator: VTS

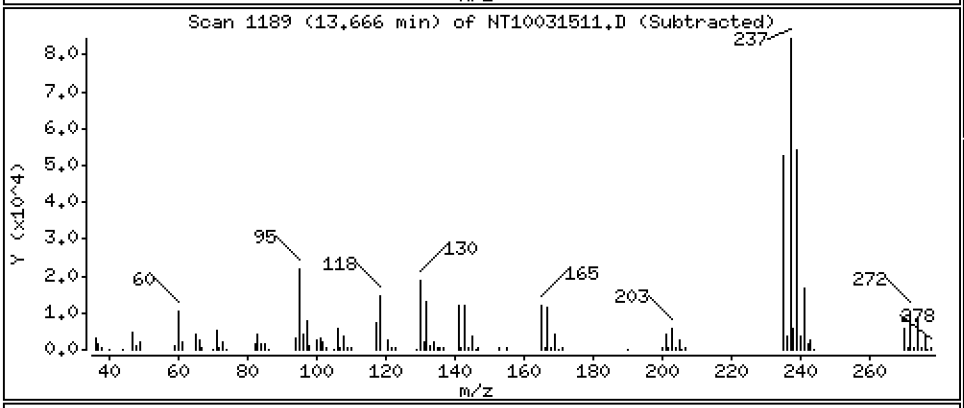
Column phase: ZB-5msi

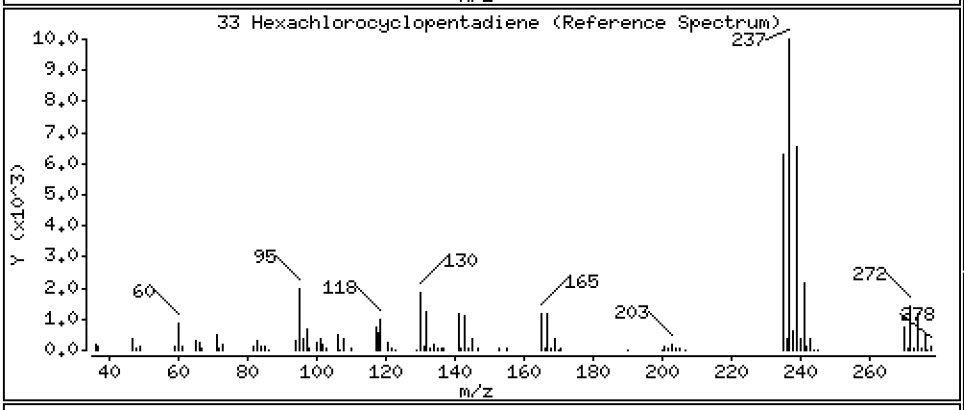
Column diameter: 0.25

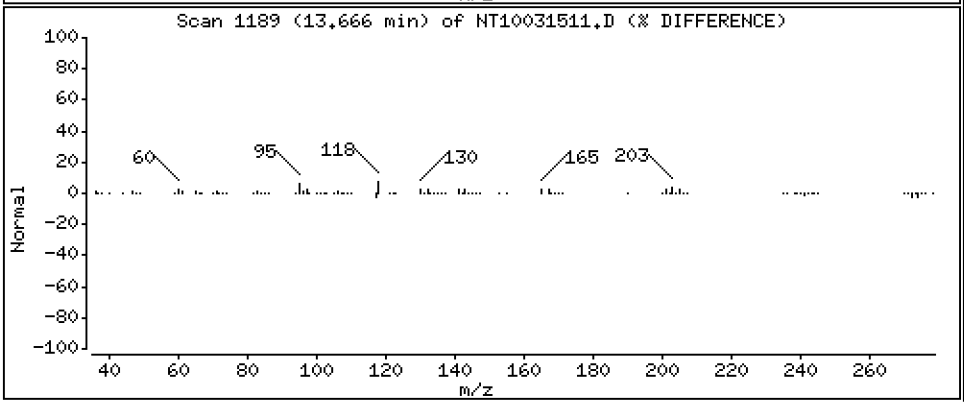
33 Hexachlorocyclopentadiene

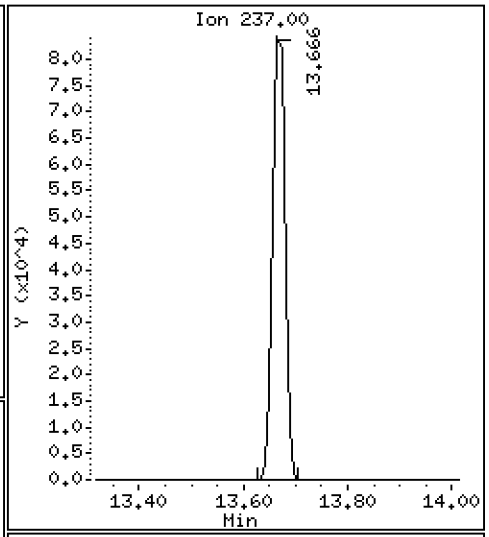
Concentration: 4.729 ug/mL

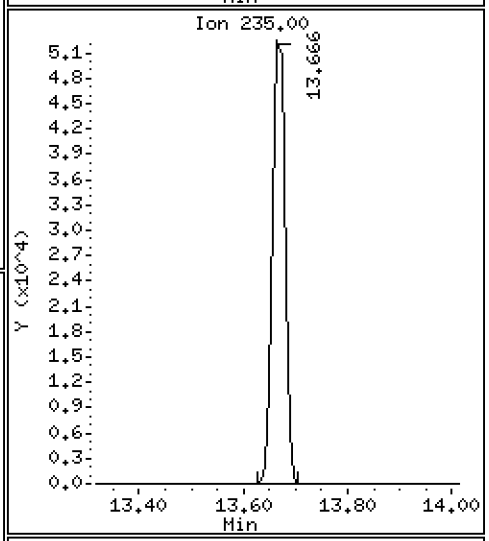


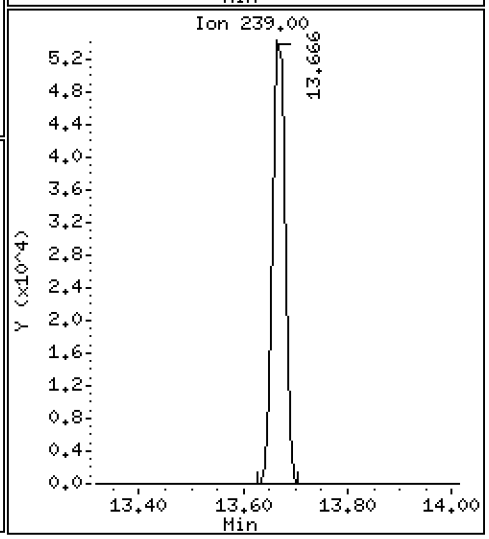












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

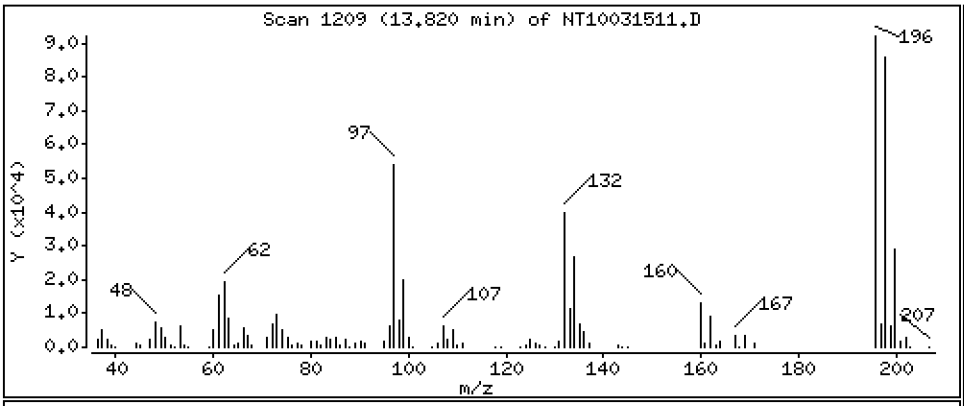
Operator: VTS

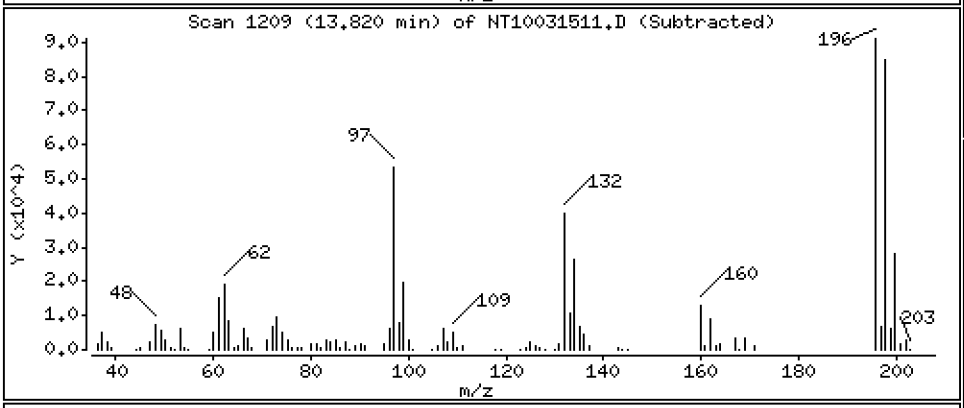
Column phase: ZB-5msi

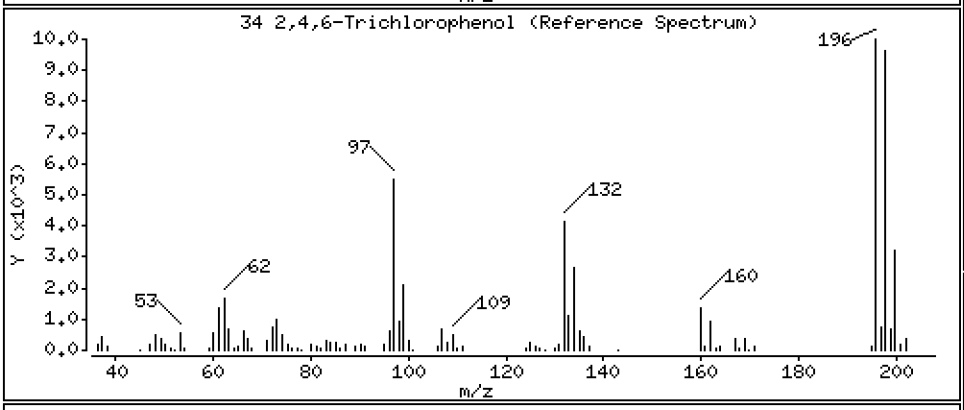
Column diameter: 0.25

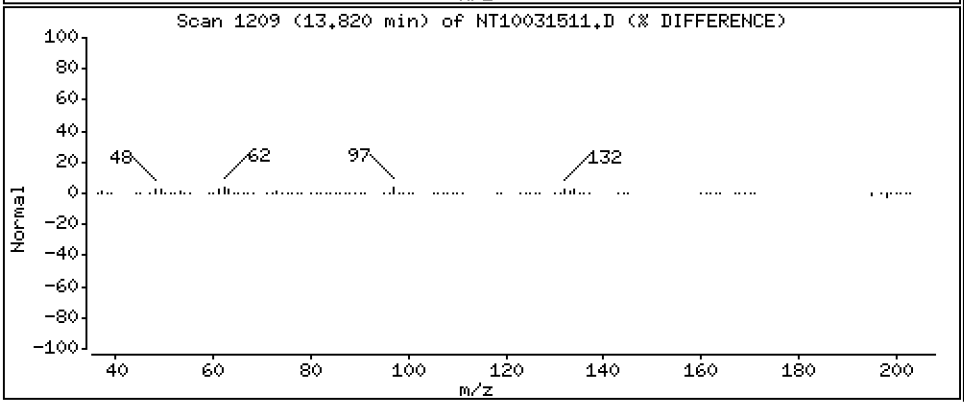
34 2,4,6-Trichlorophenol

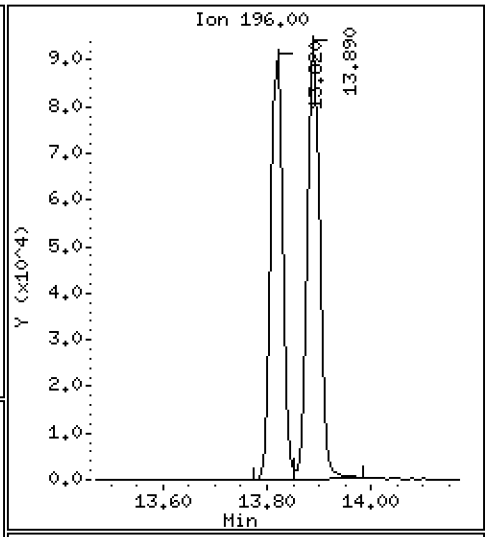
Concentration: 4.596 ug/mL

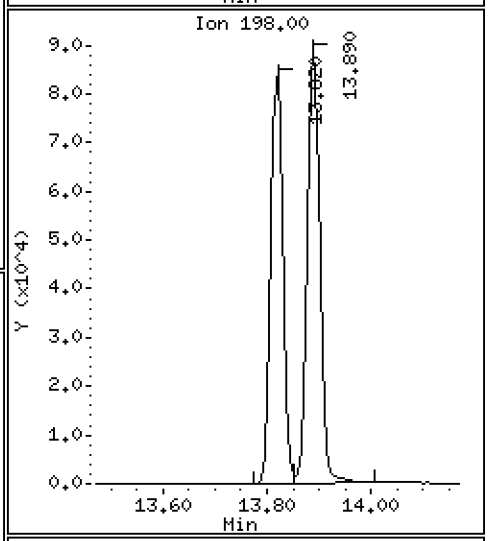


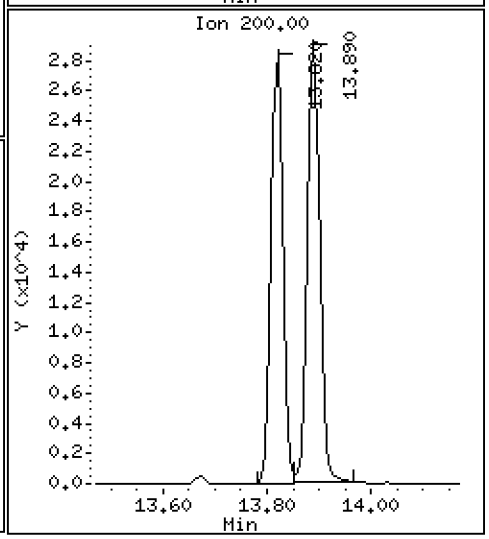












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

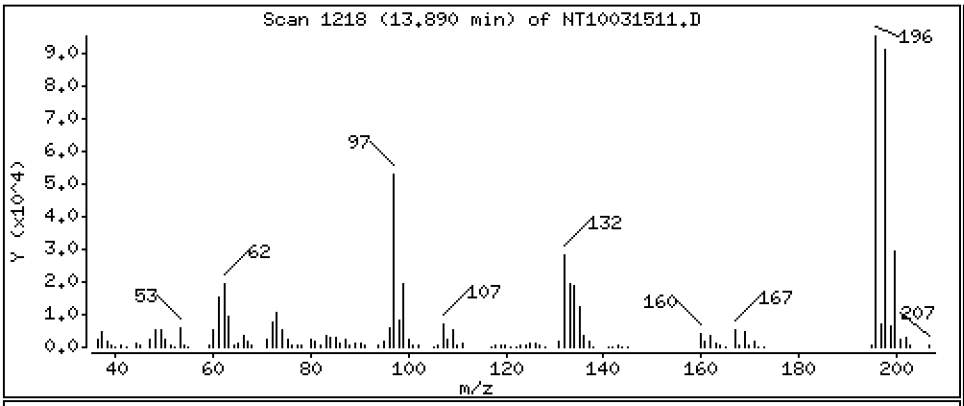
Operator: VTS

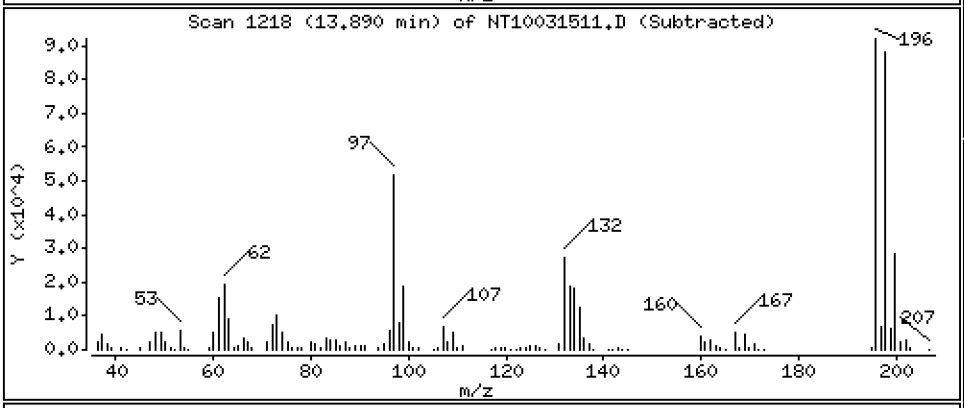
Column phase: ZB-5msi

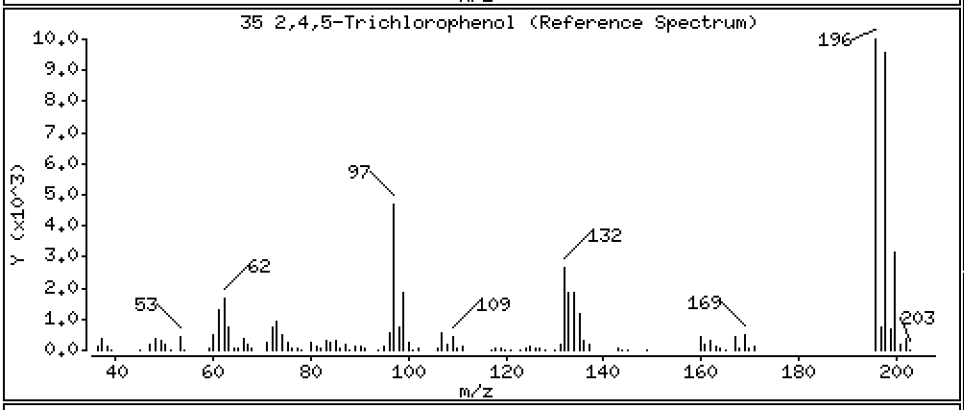
Column diameter: 0.25

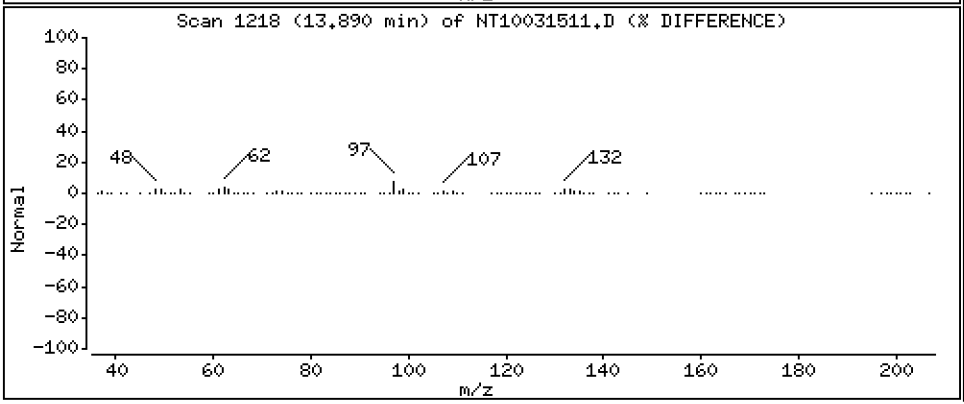
35 2,4,5-Trichlorophenol

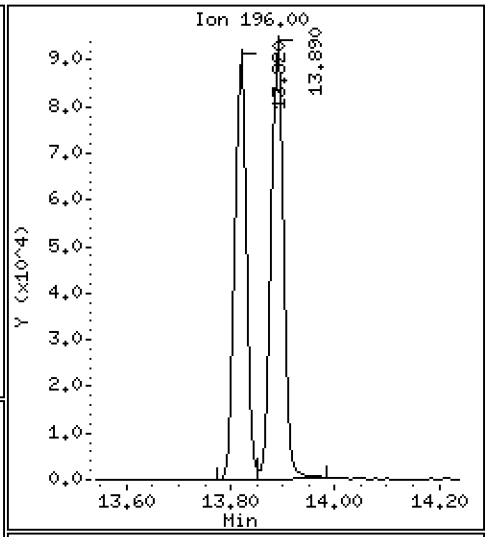
Concentration: 4.409 ug/mL

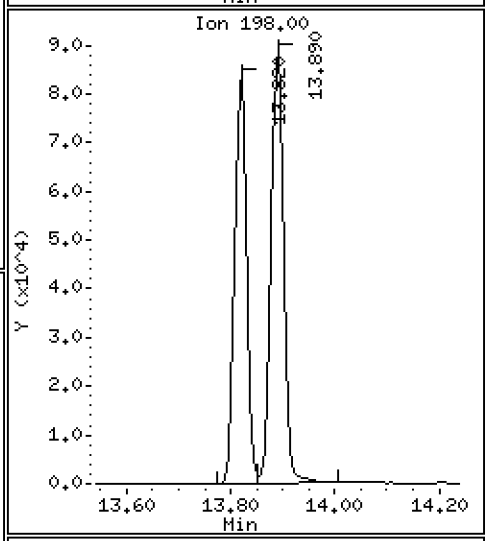


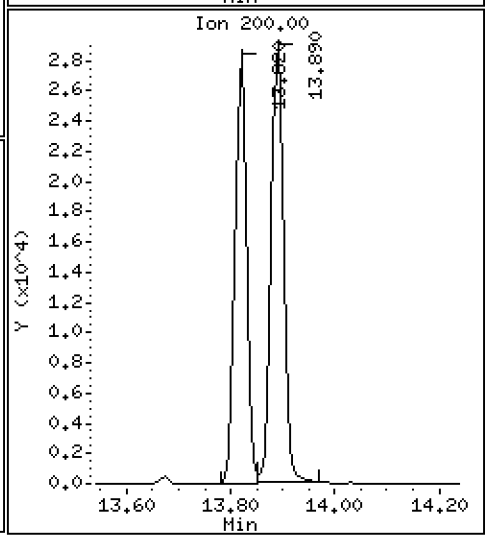












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

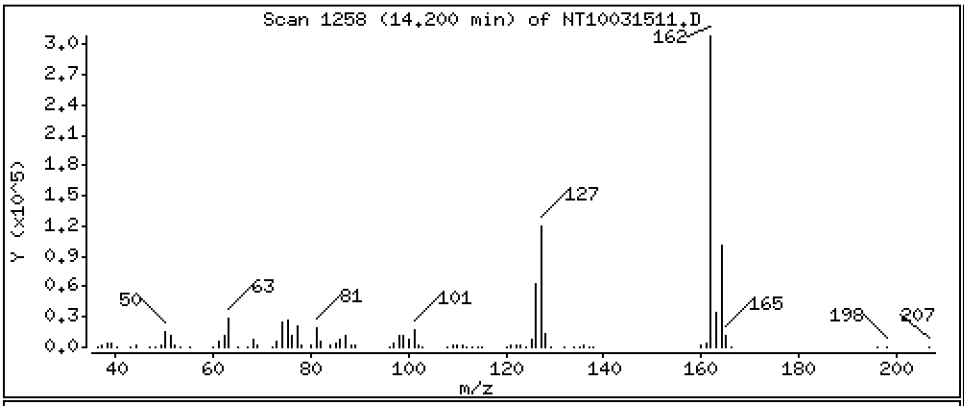
Operator: VTS

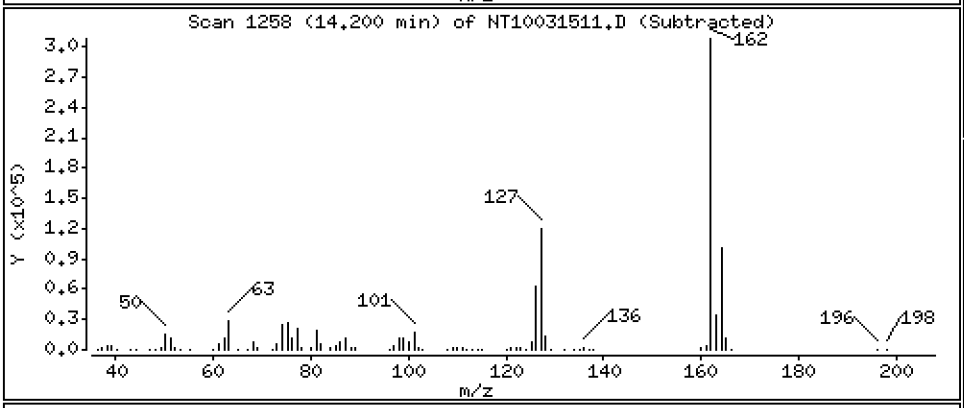
Column phase: ZB-5msi

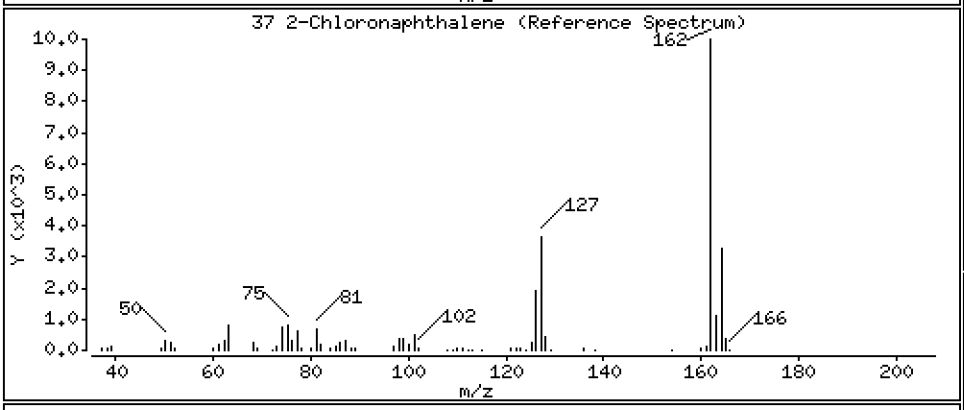
Column diameter: 0.25

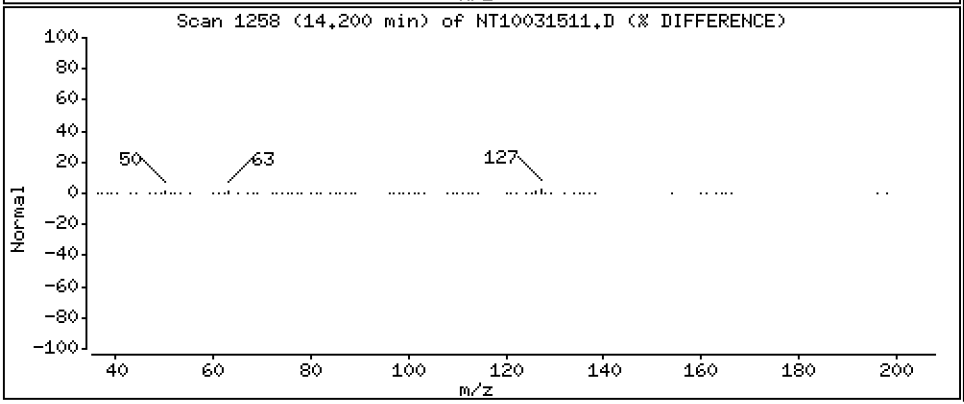
37 2-Chloronaphthalene

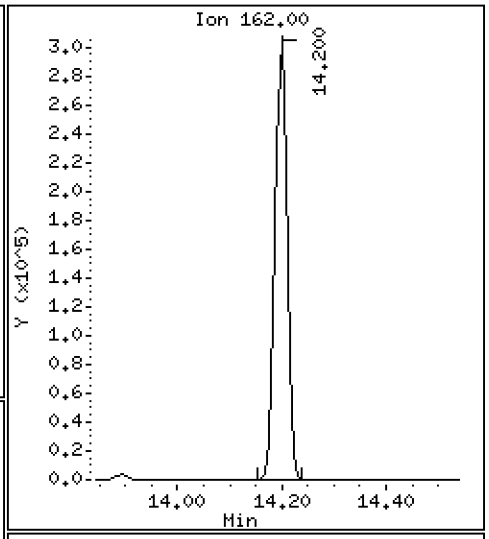
Concentration: 4.796 ug/mL

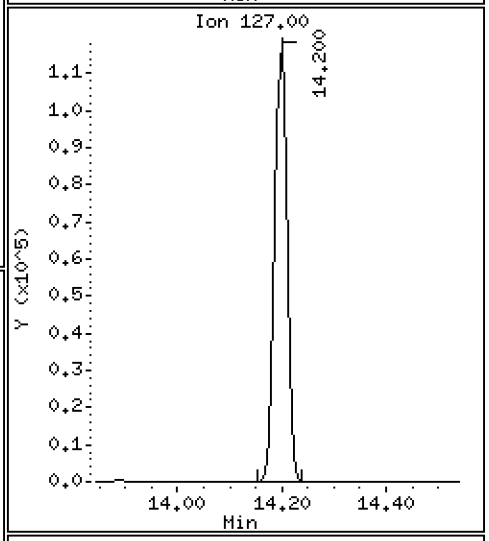


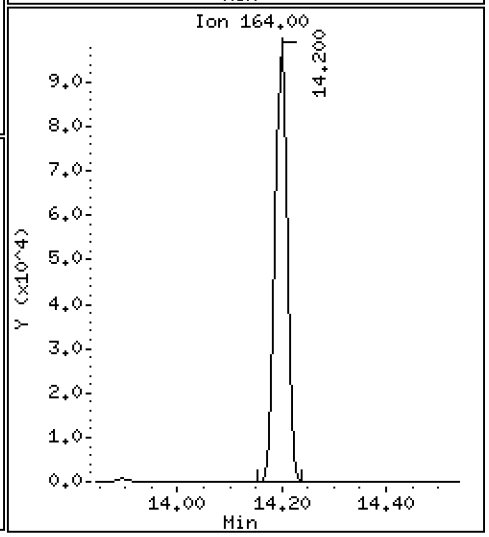












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

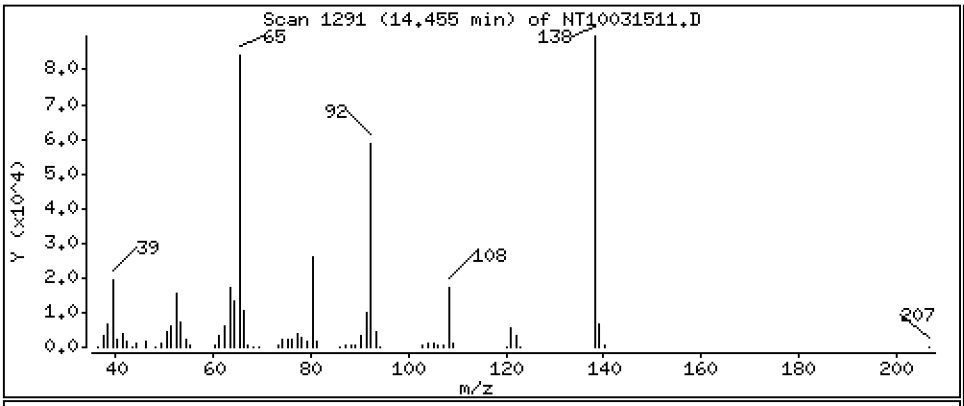
Operator: VTS

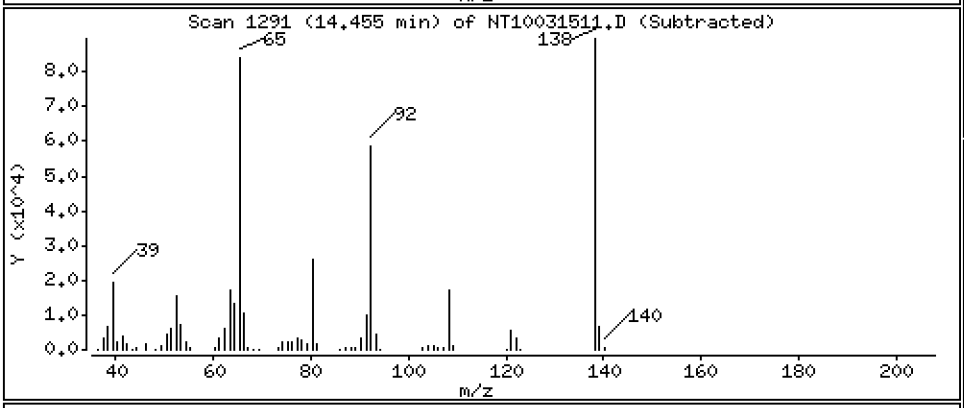
Column phase: ZB-5msi

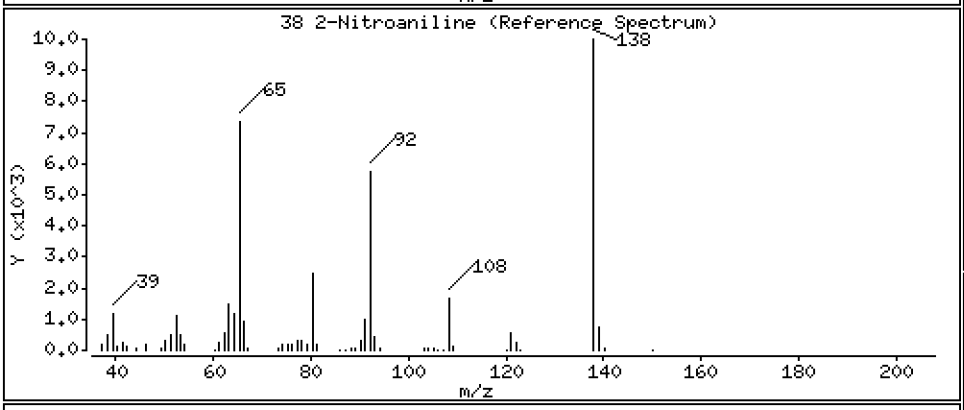
Column diameter: 0.25

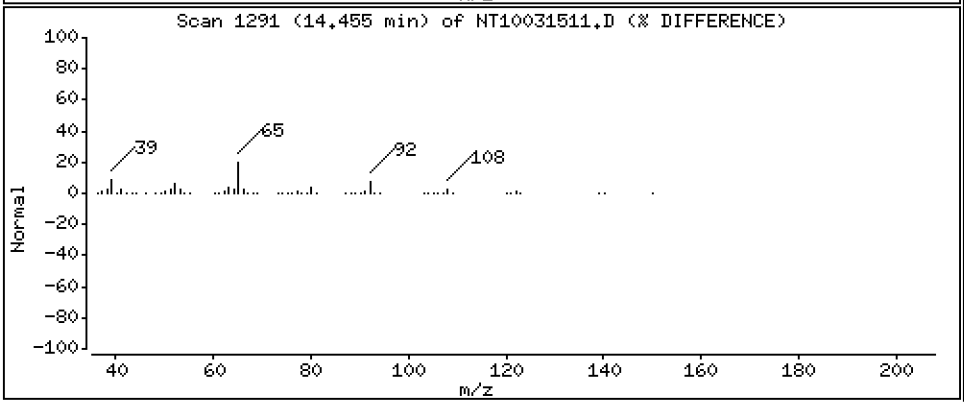
38 2-Nitroaniline

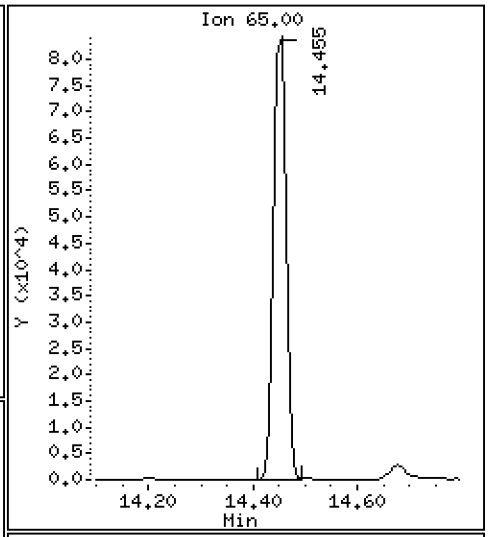
Concentration: 4.911 ug/mL

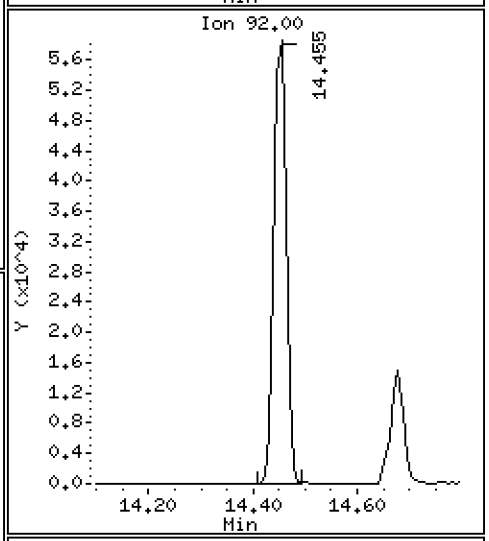


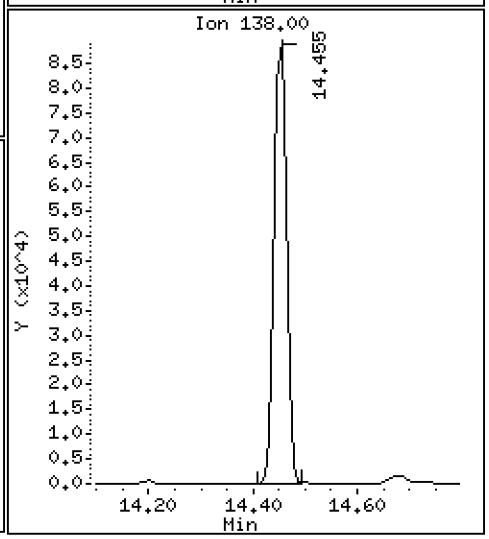












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

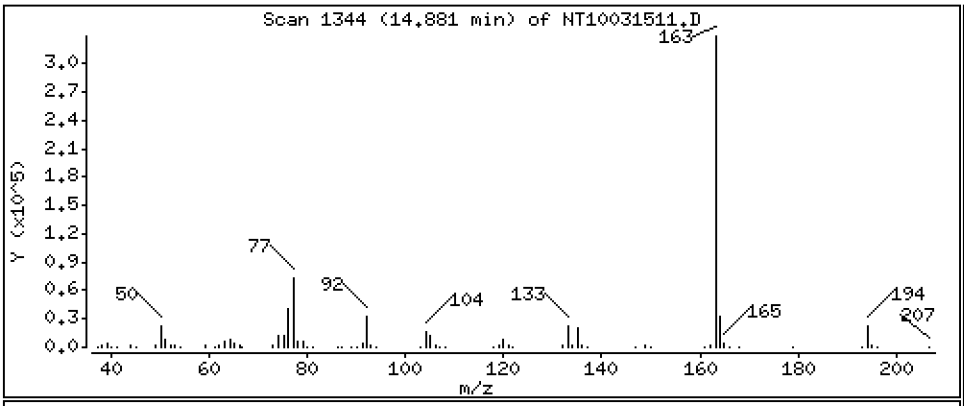
Operator: VTS

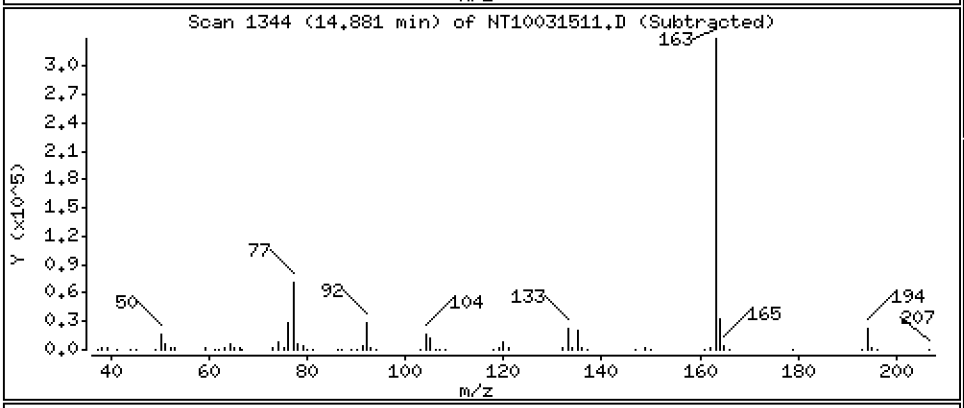
Column phase: ZB-5msi

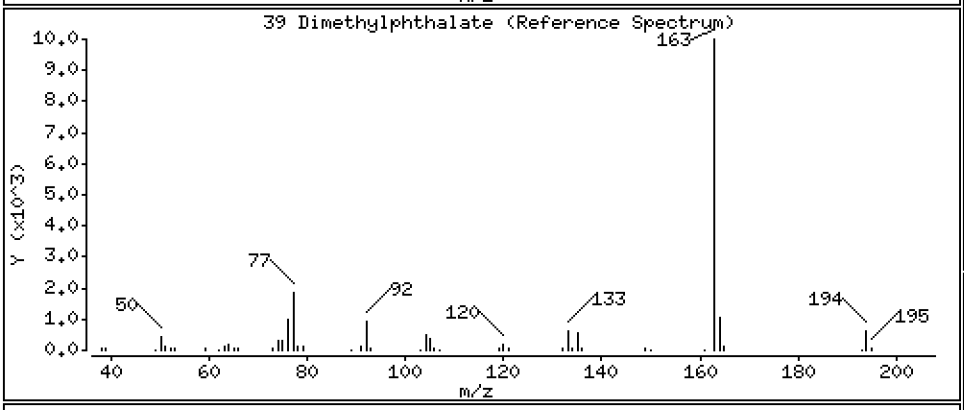
Column diameter: 0.25

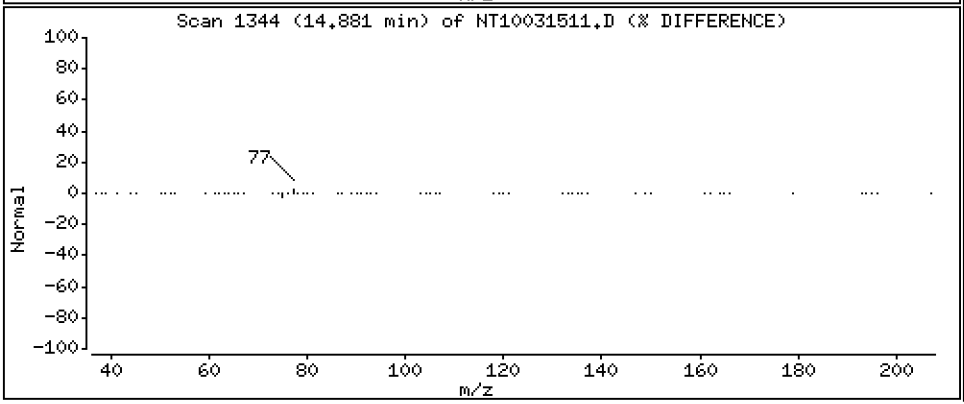
39 Dimethylphthalate

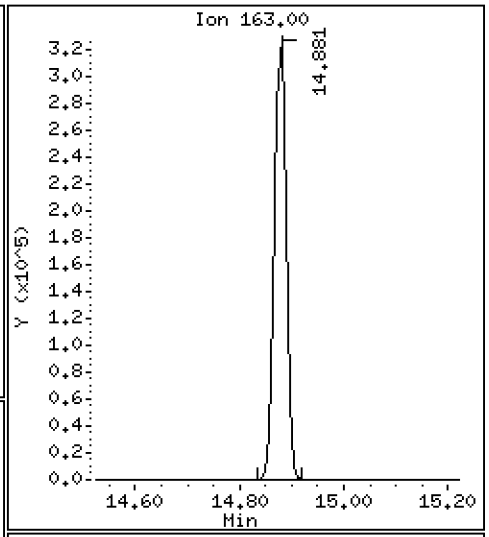
Concentration: 4.937 ug/mL

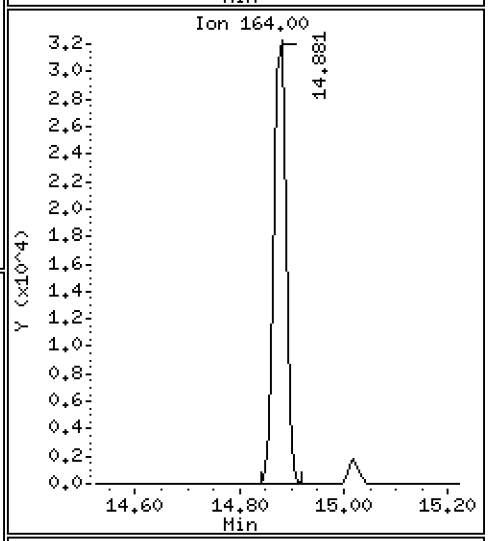


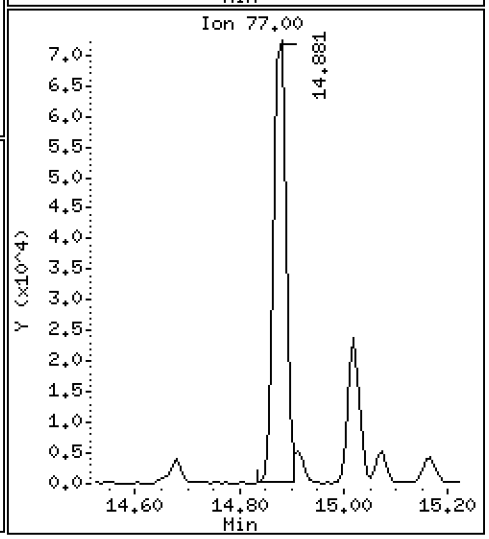












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

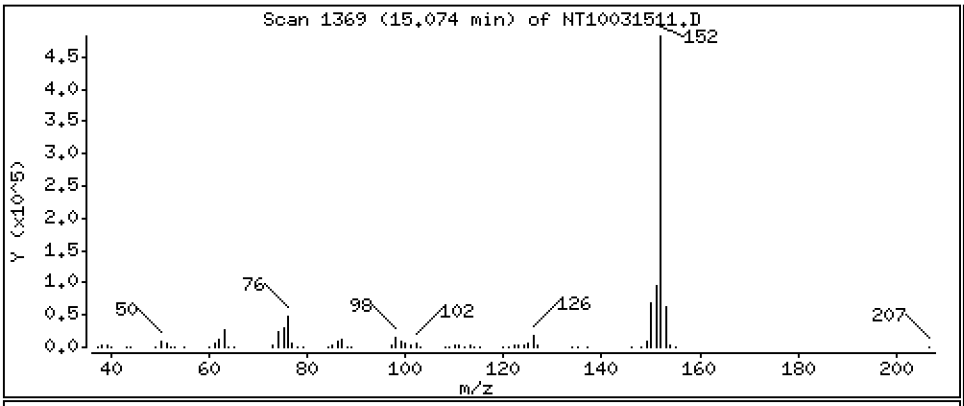
Operator: VTS

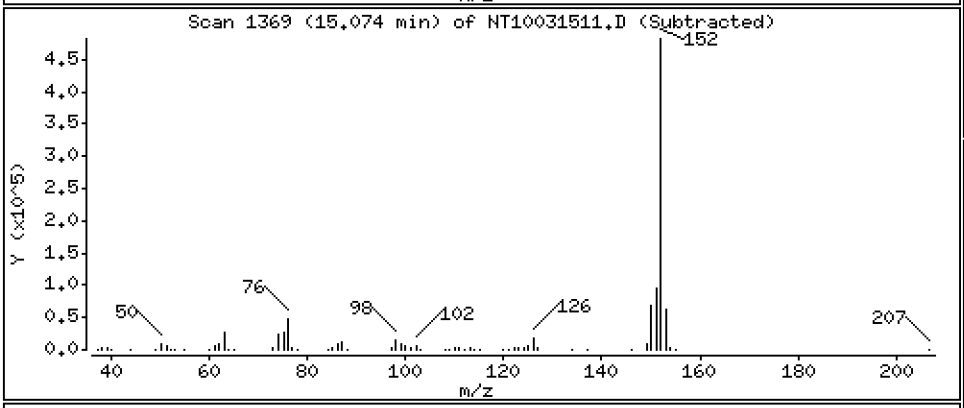
Column phase: ZB-5msi

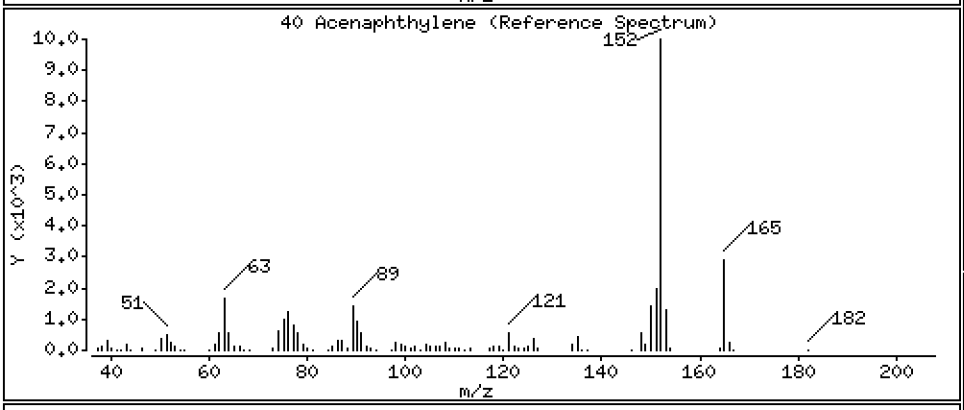
Column diameter: 0.25

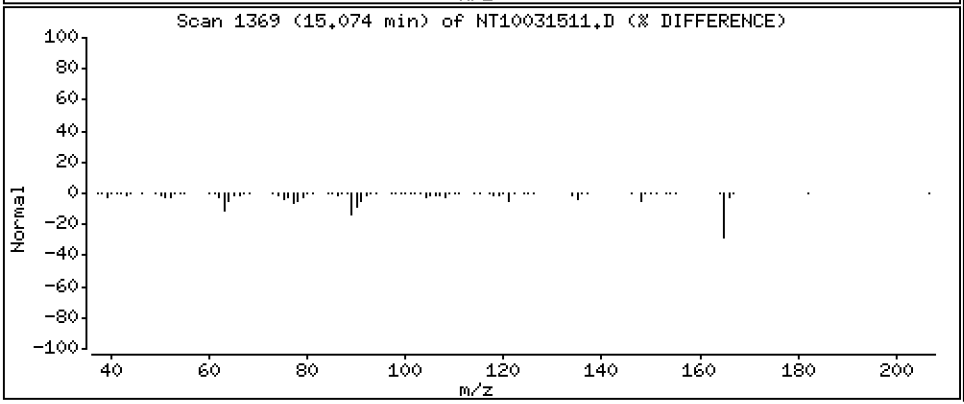
40 Acenaphthylene

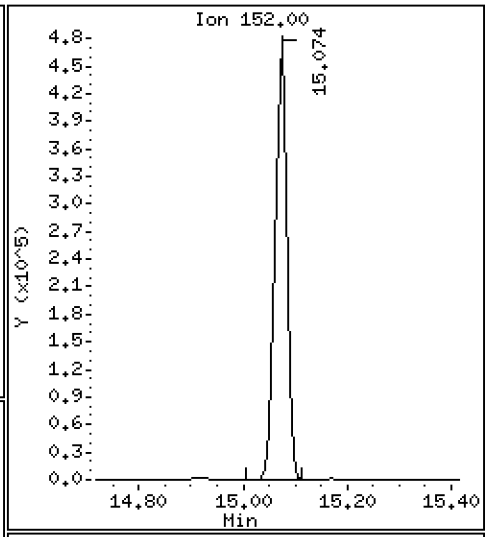
Concentration: 4.805 ug/mL

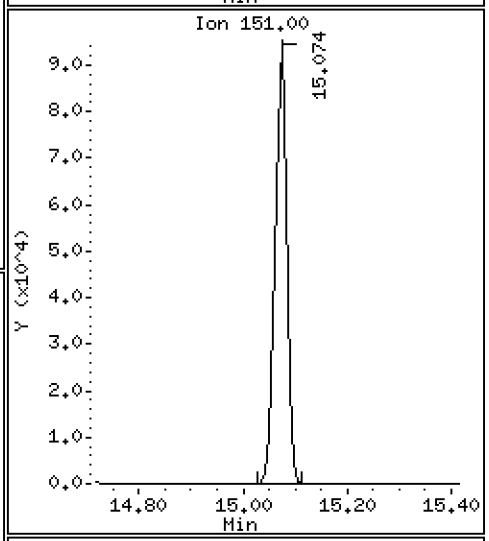


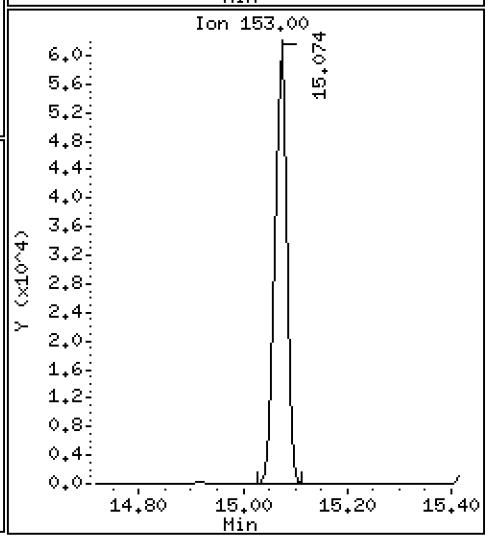












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

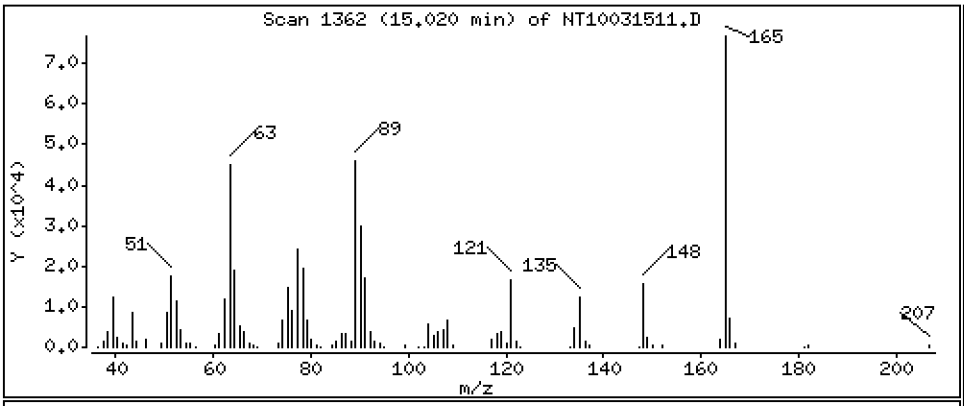
Operator: VTS

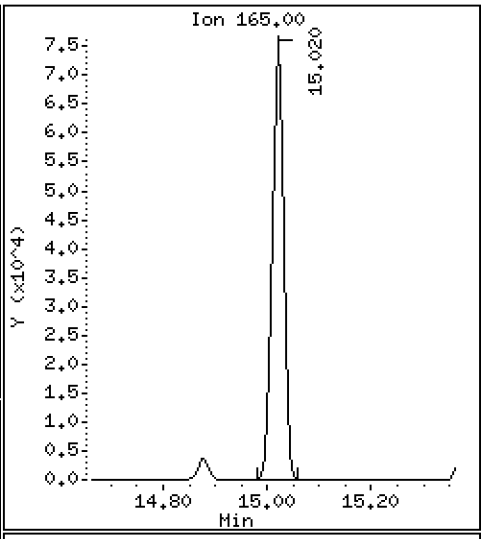
Column phase: ZB-5msi

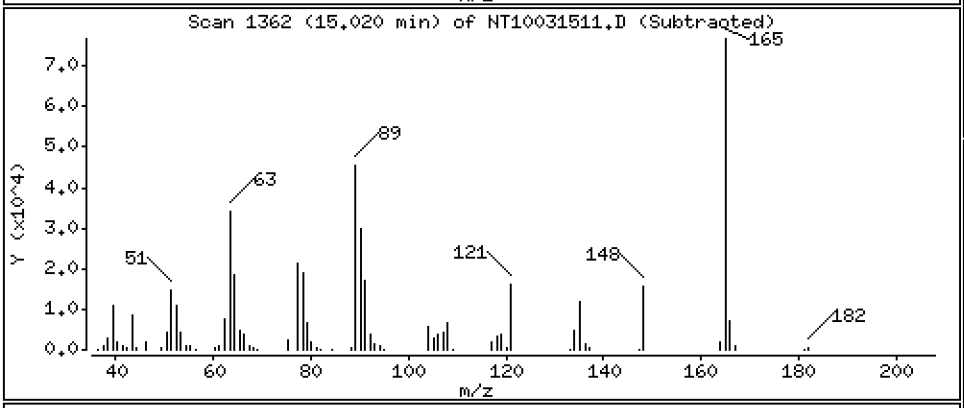
Column diameter: 0.25

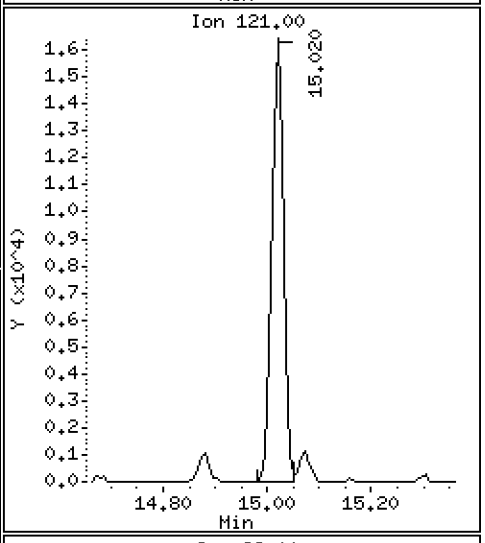
41 2,6-Dinitrotoluene

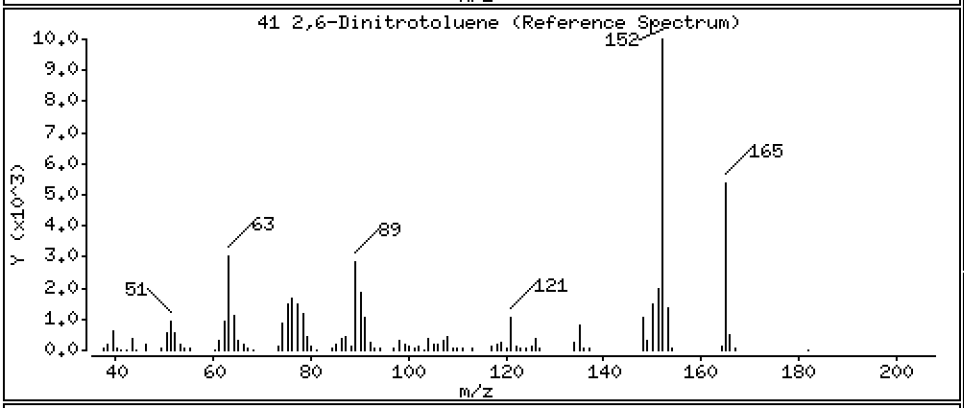
Concentration: 5.298 ug/mL

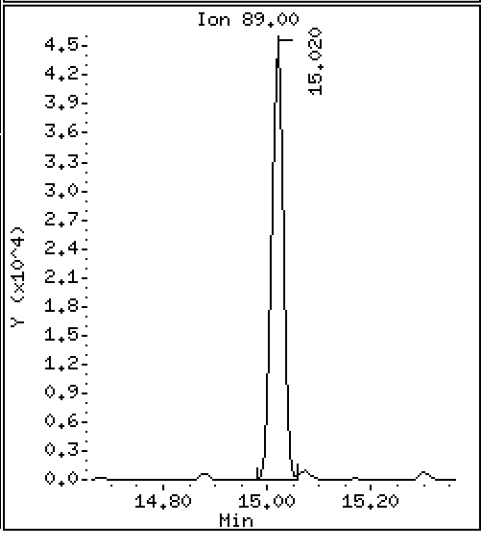


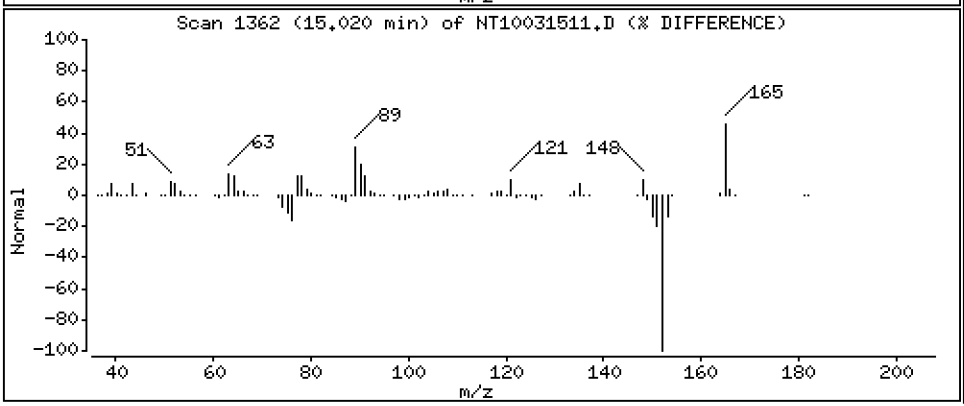












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

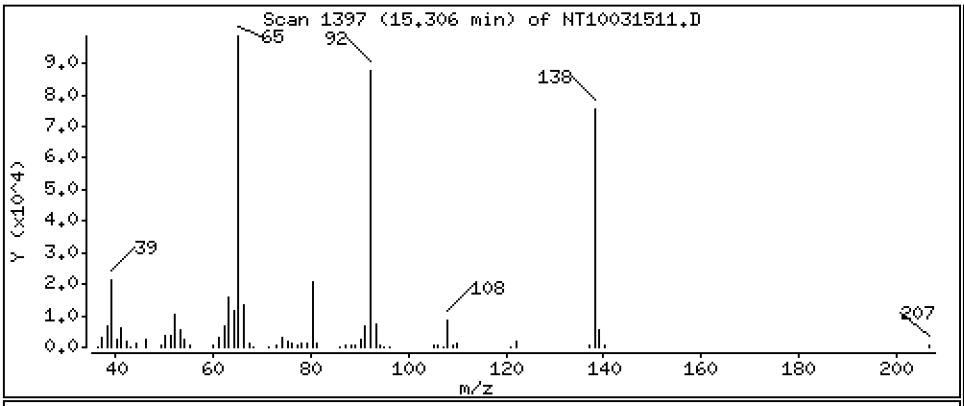
Operator: VTS

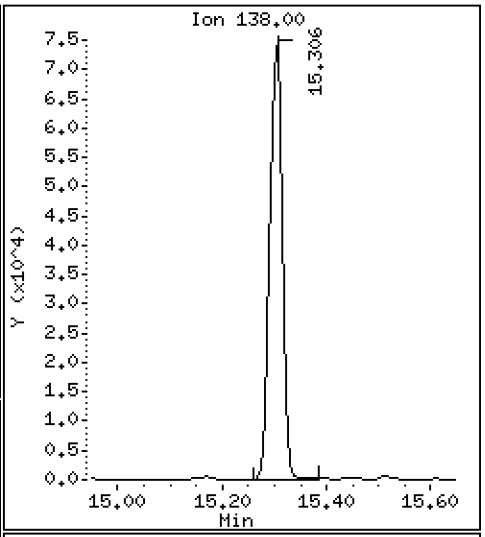
Column phase: ZB-5msi

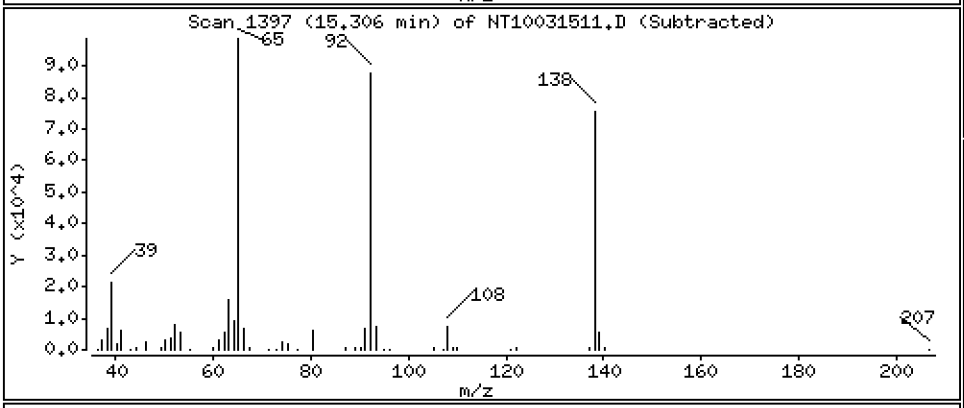
Column diameter: 0.25

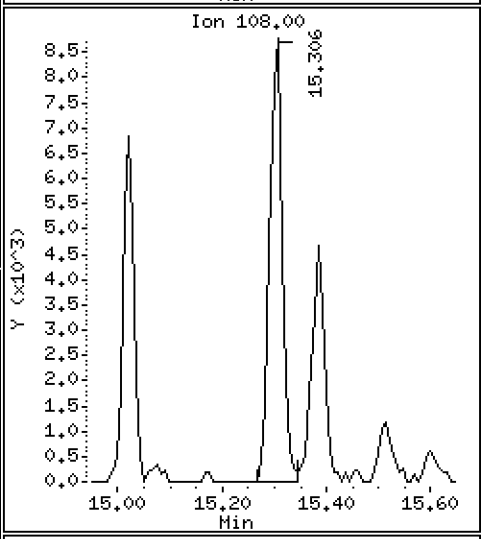
43 3-Nitroaniline

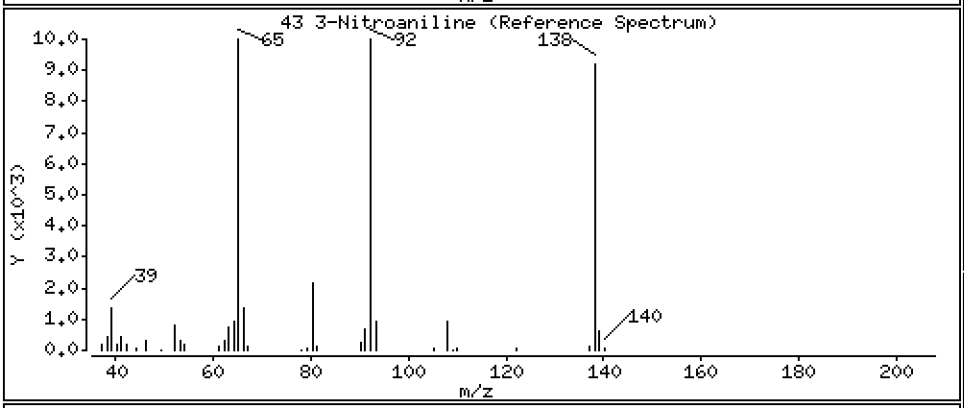
Concentration: 5.014 ug/mL

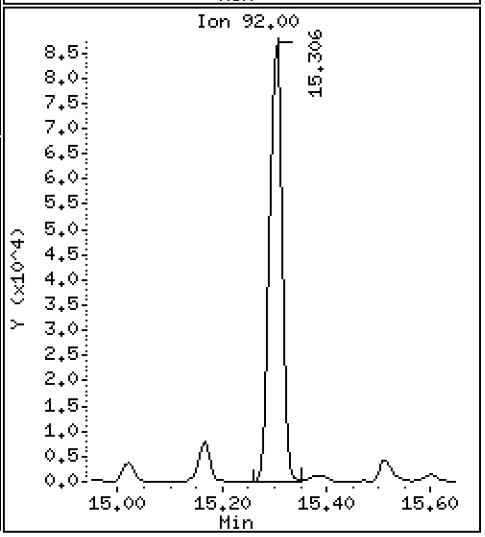


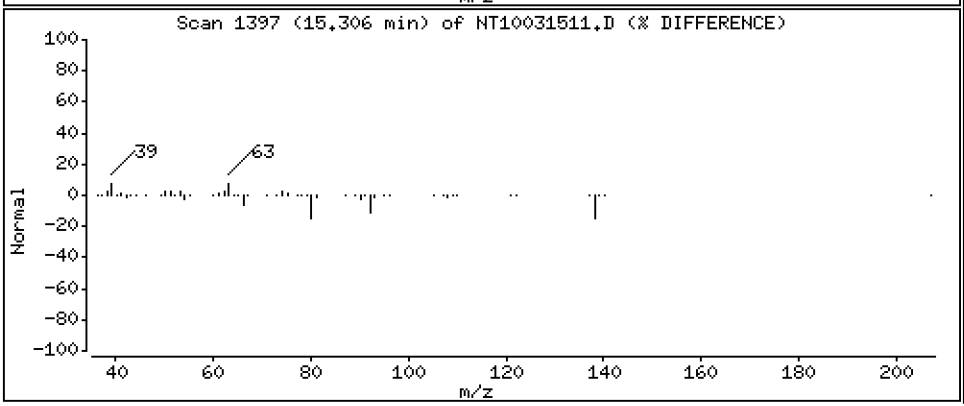












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

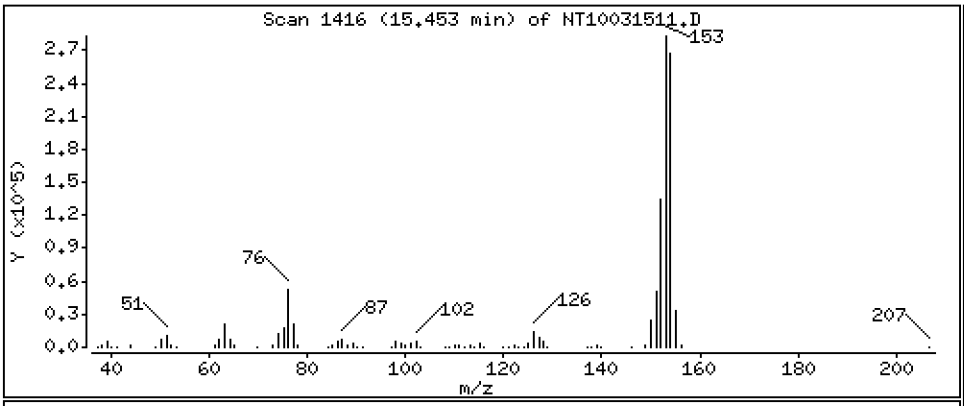
Operator: VTS

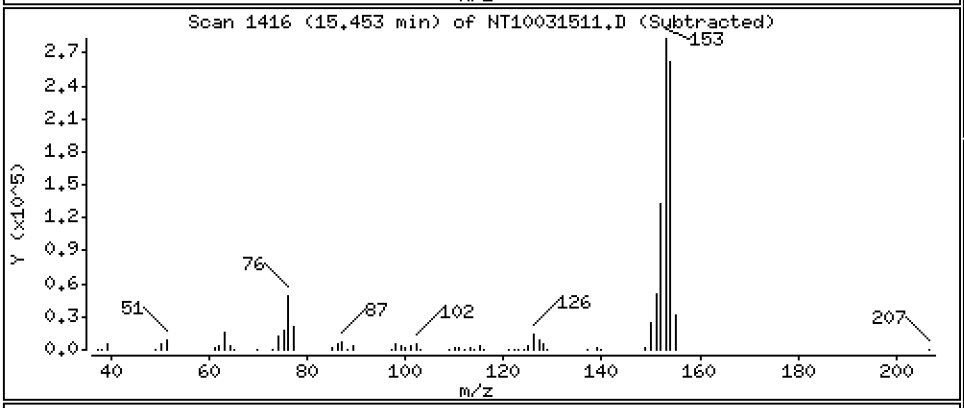
Column phase: ZB-5msi

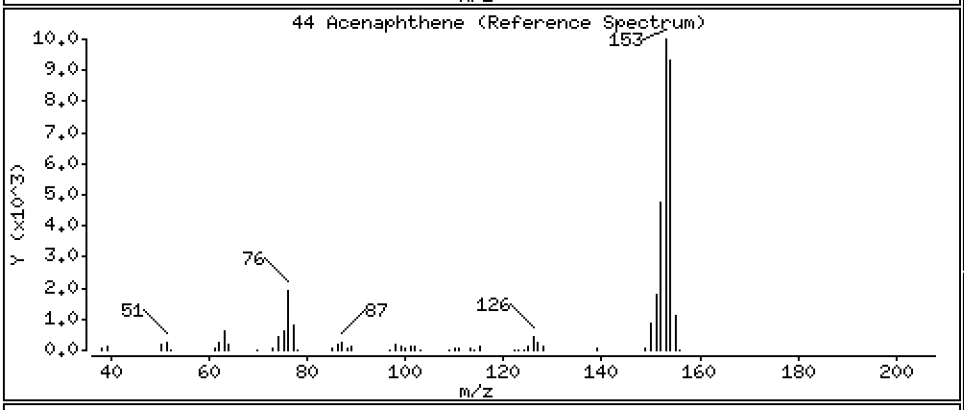
Column diameter: 0.25

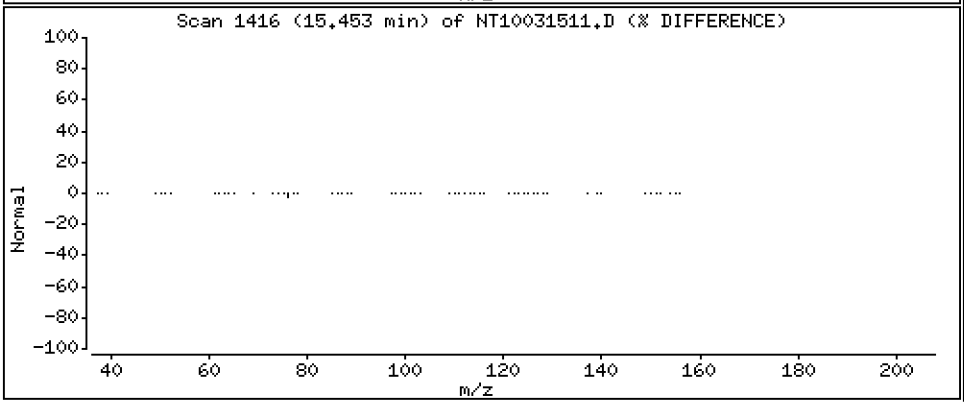
44 Acenaphthene

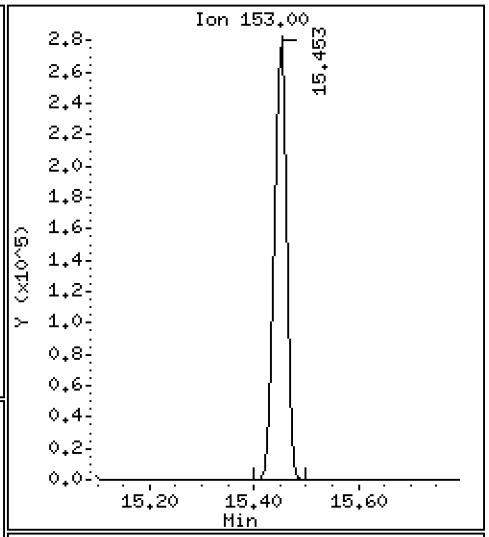
Concentration: 4.776 ug/mL

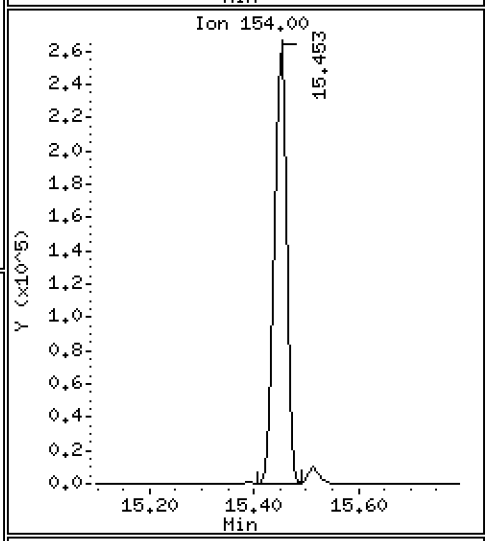


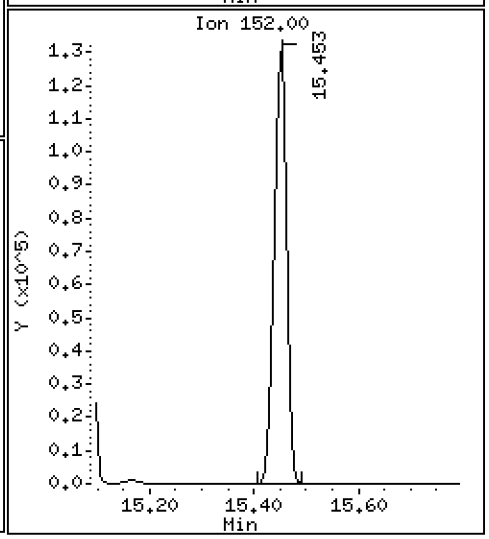












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

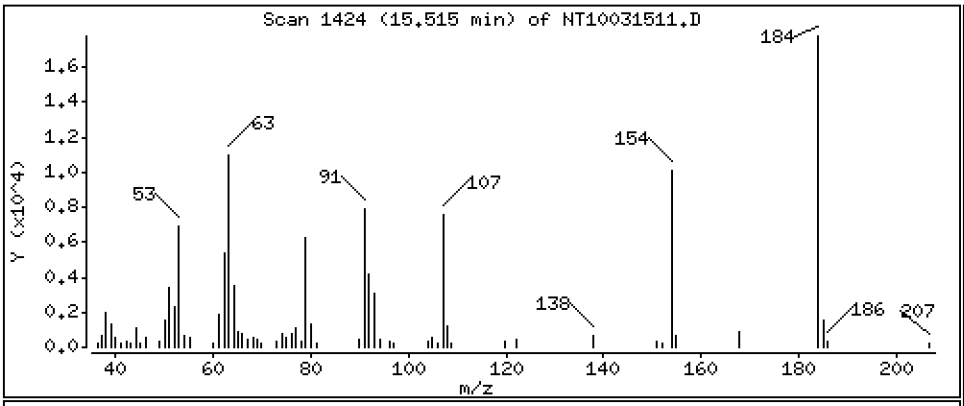
Operator: VTS

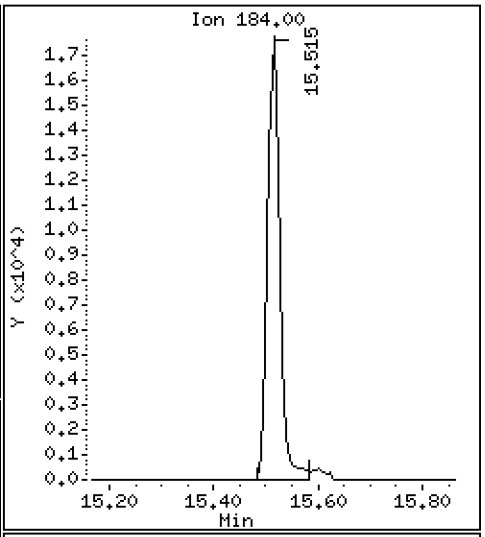
Column phase: ZB-5msi

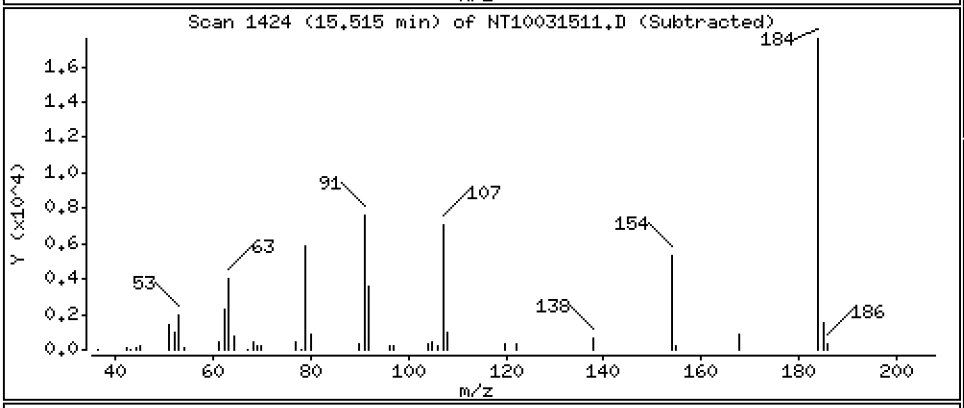
Column diameter: 0.25

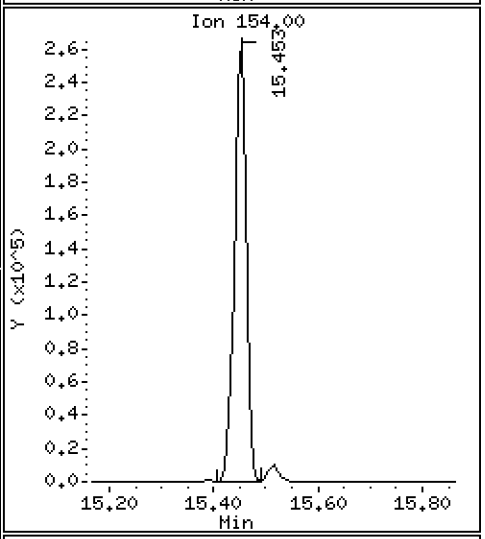
45 2,4-Dinitrophenol

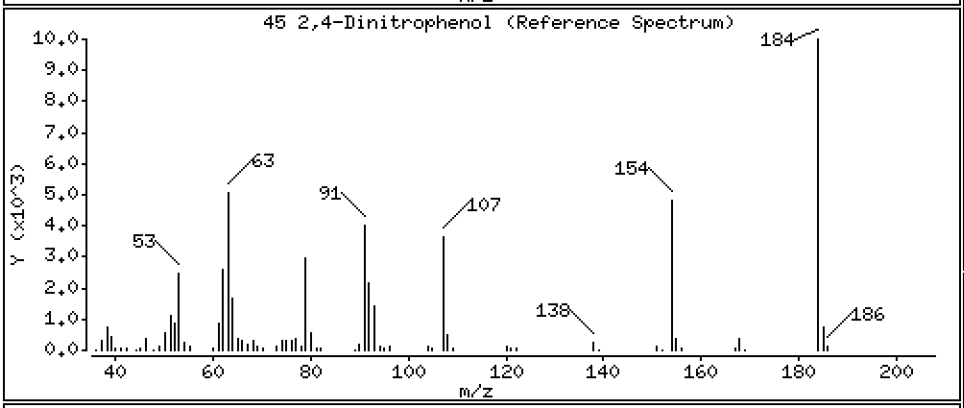
Concentration: 2.124 ug/mL

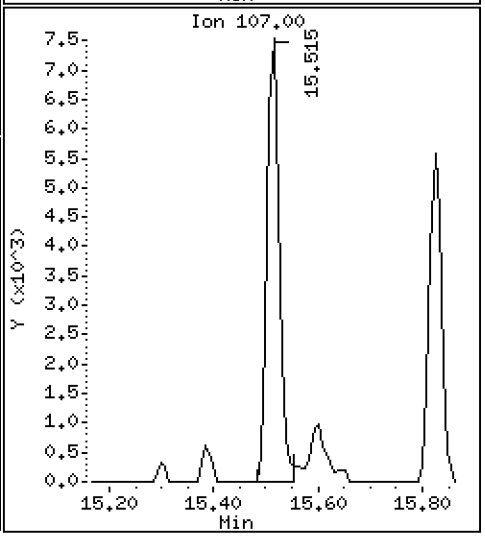


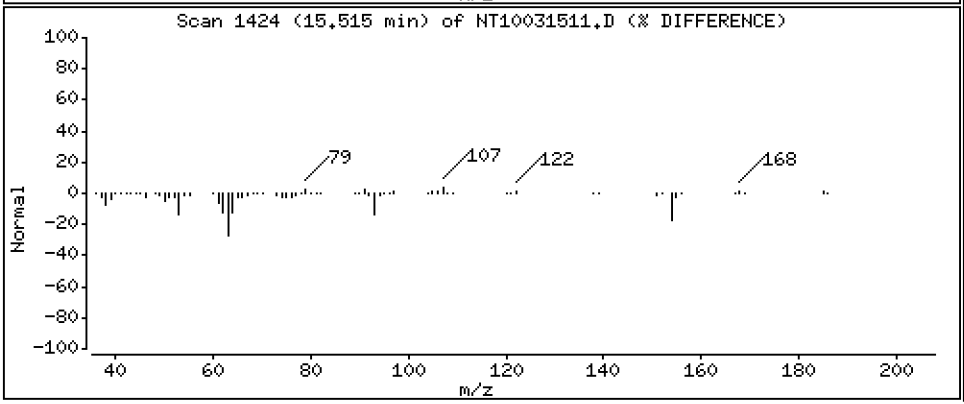












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

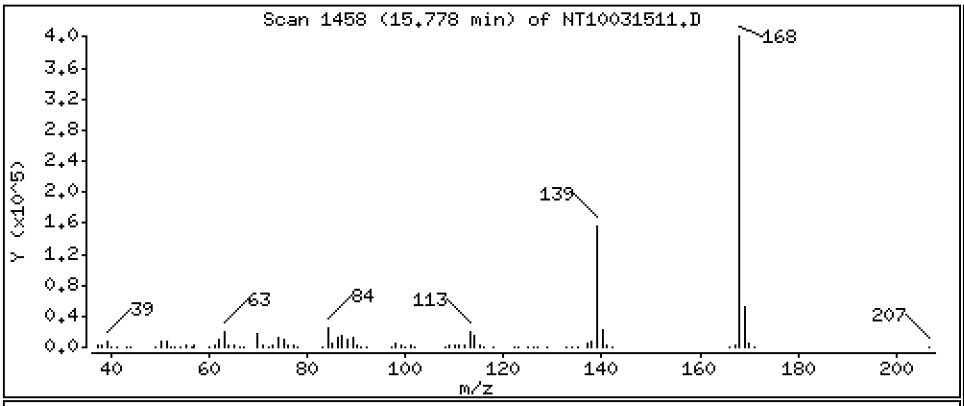
Operator: VTS

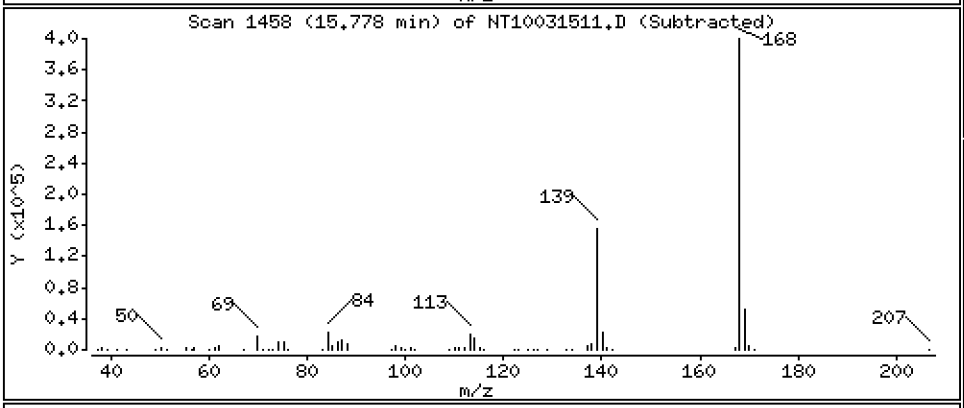
Column phase: ZB-5msi

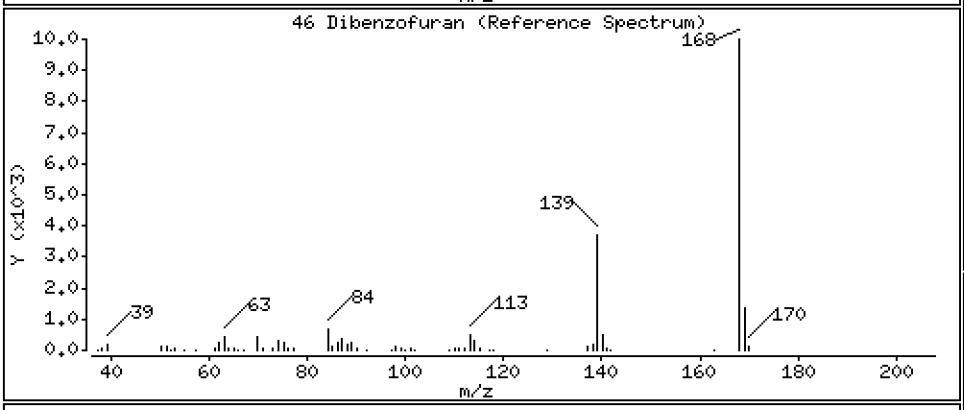
Column diameter: 0.25

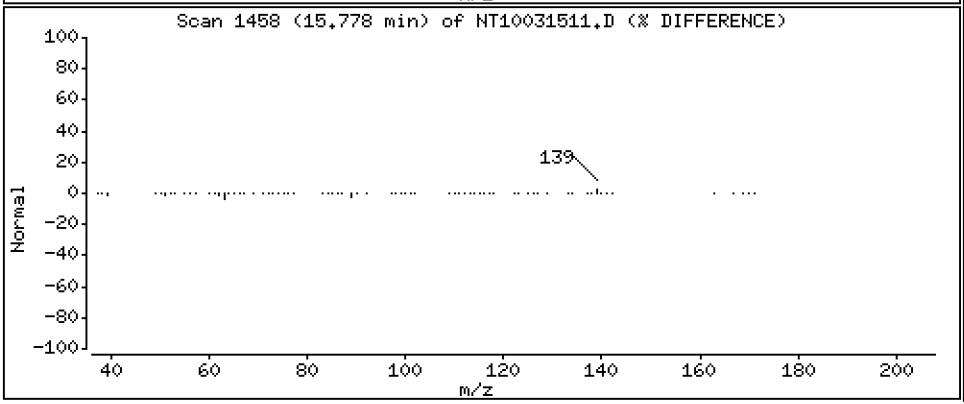
46 Dibenzofuran

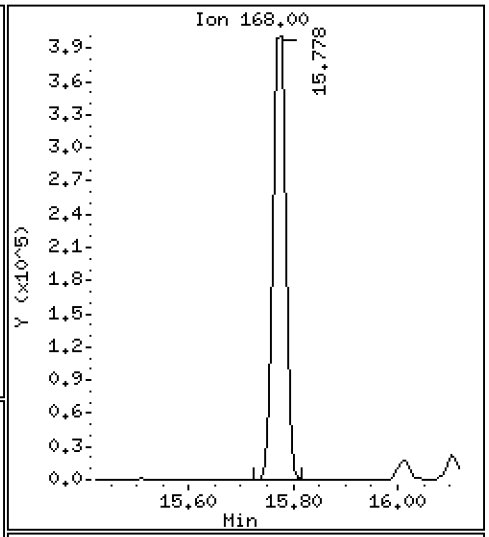
Concentration: 4.648 ug/mL

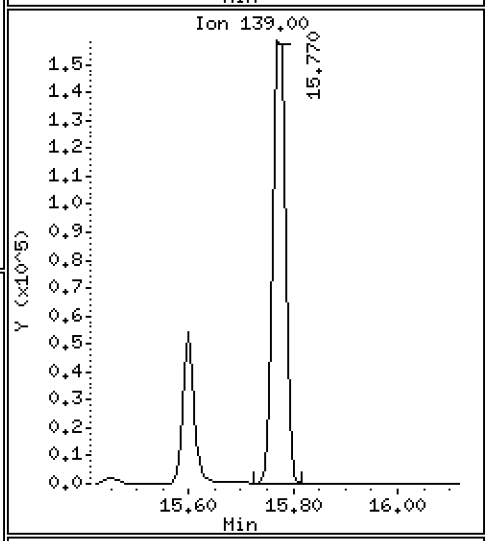


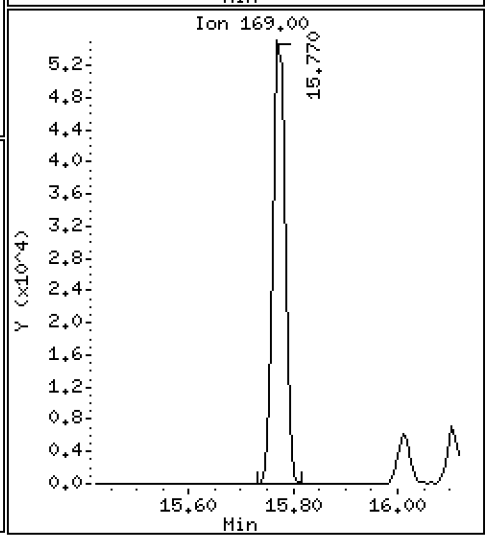












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

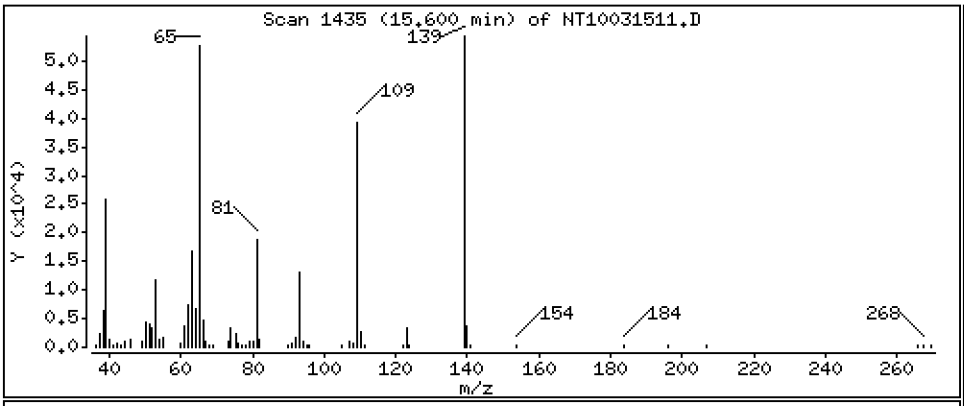
Operator: VTS

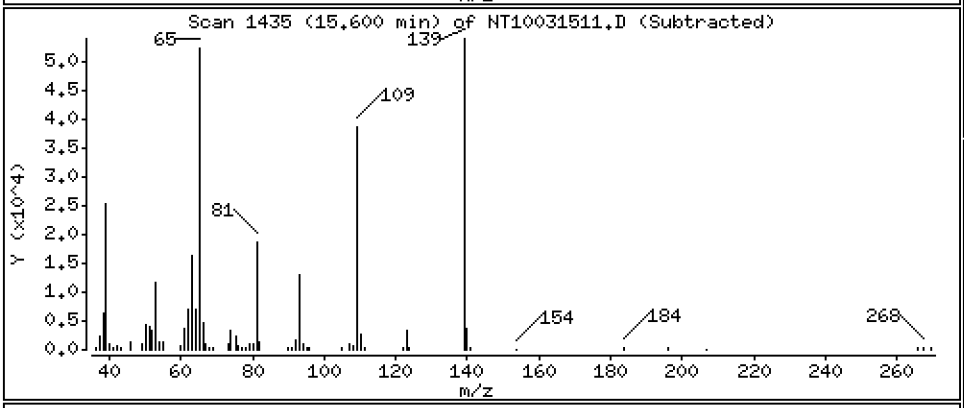
Column phase: ZB-5msi

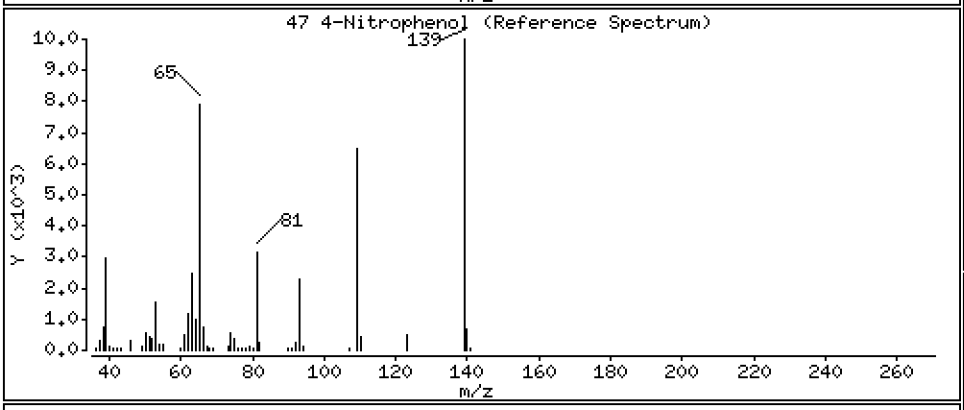
Column diameter: 0.25

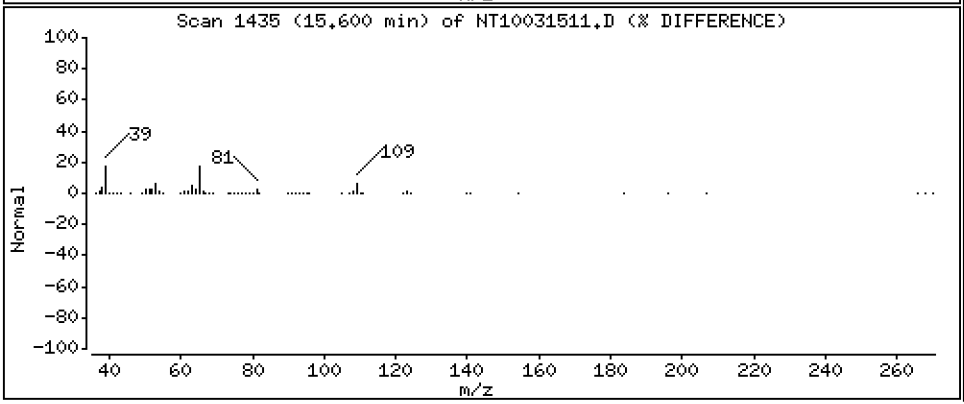
47 4-Nitrophenol

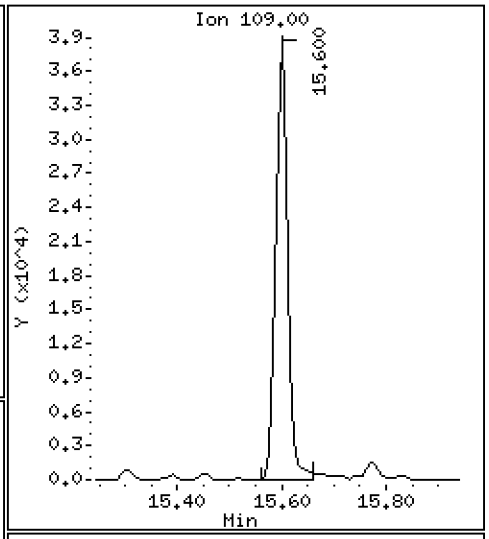
Concentration: 3.966 ug/mL

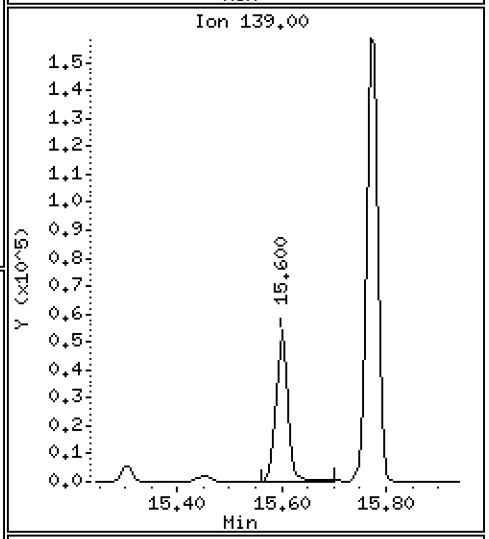


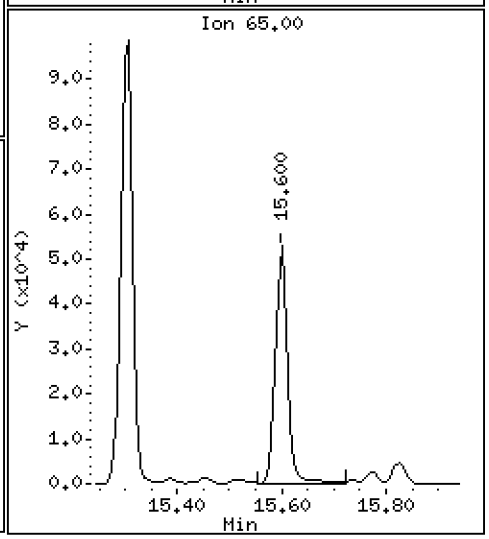












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

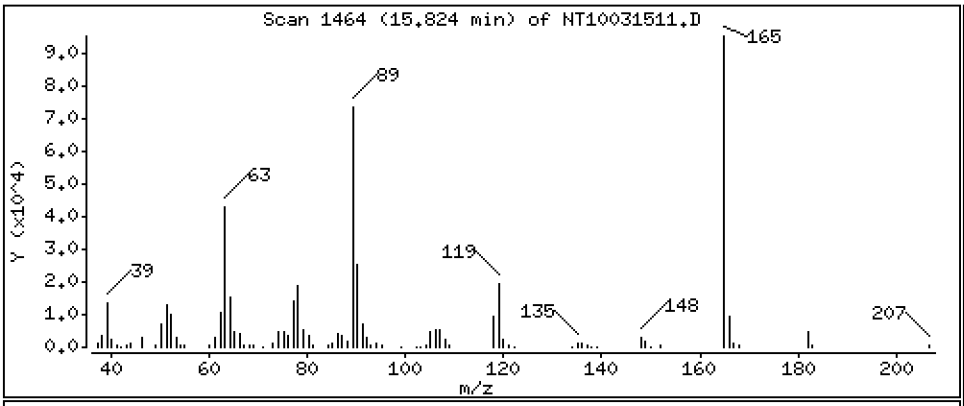
Operator: VTS

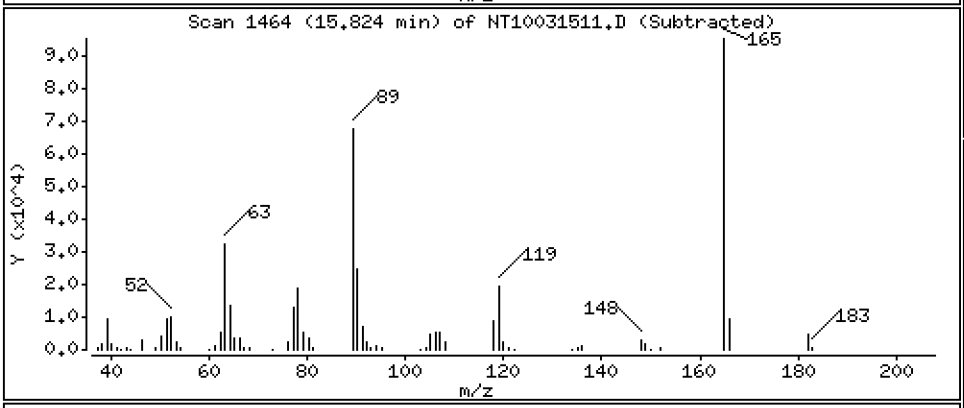
Column phase: ZB-5msi

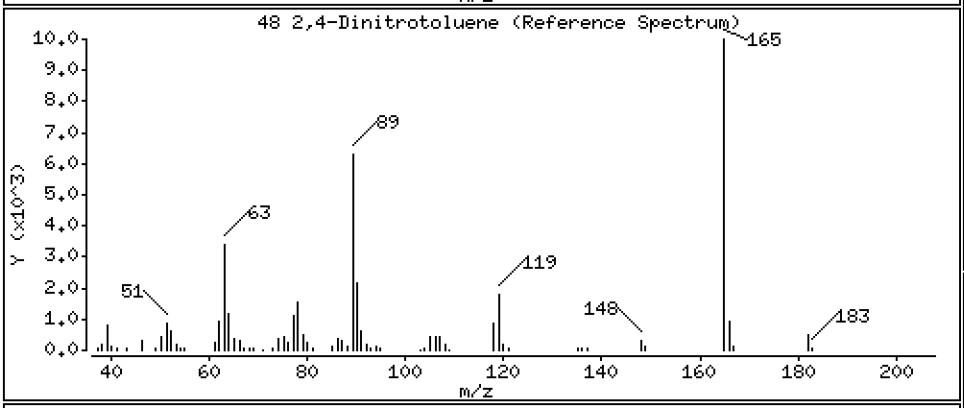
Column diameter: 0.25

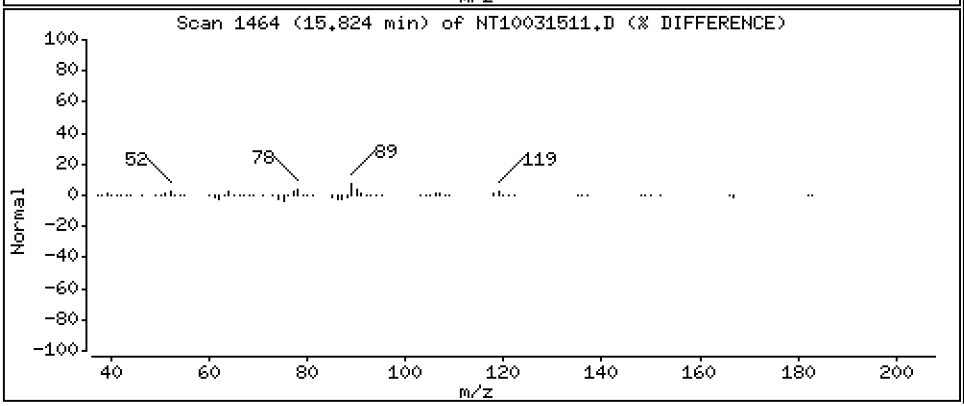
48 2,4-Dinitrotoluene

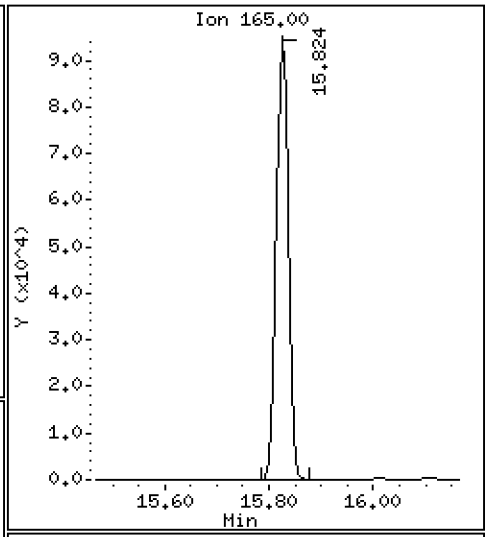
Concentration: 4.510 ug/mL

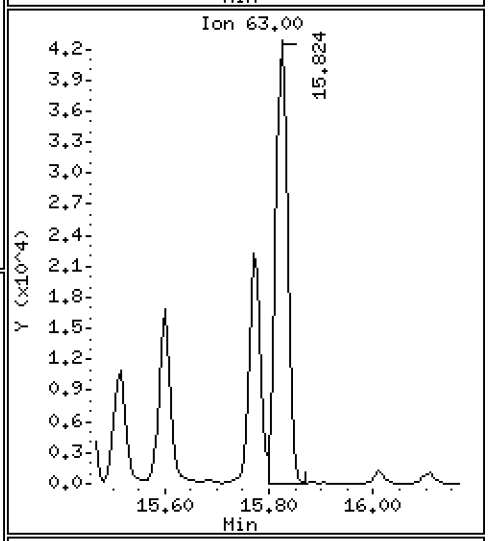


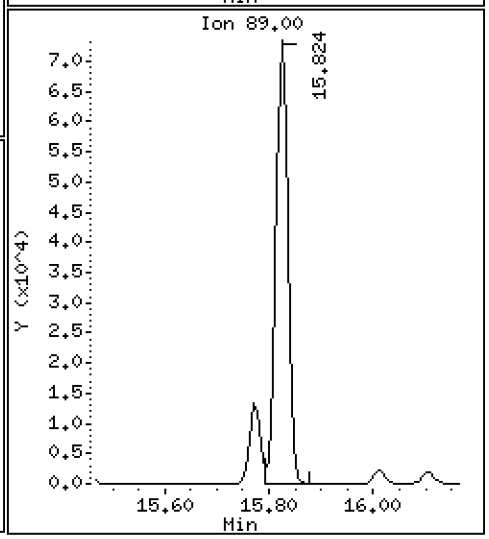












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

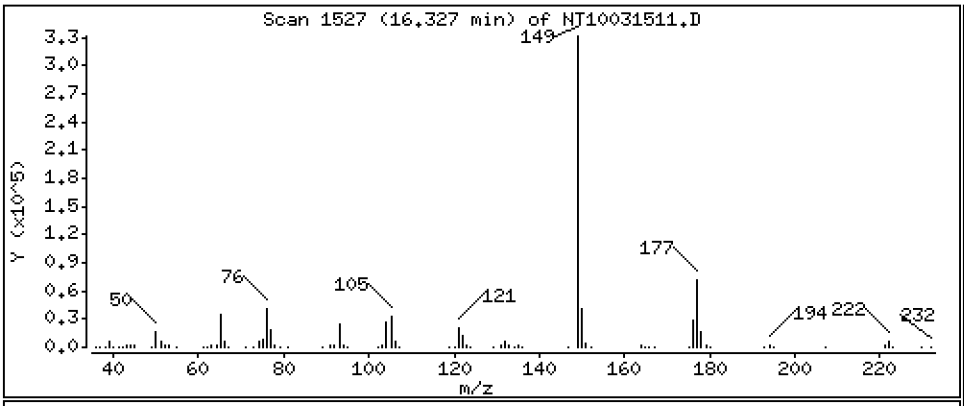
Operator: VTS

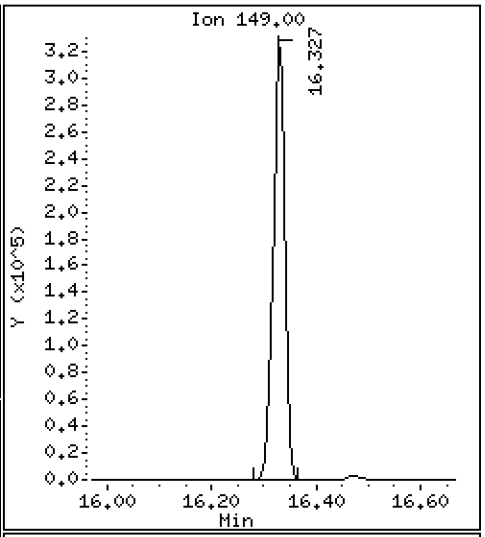
Column phase: ZB-5msi

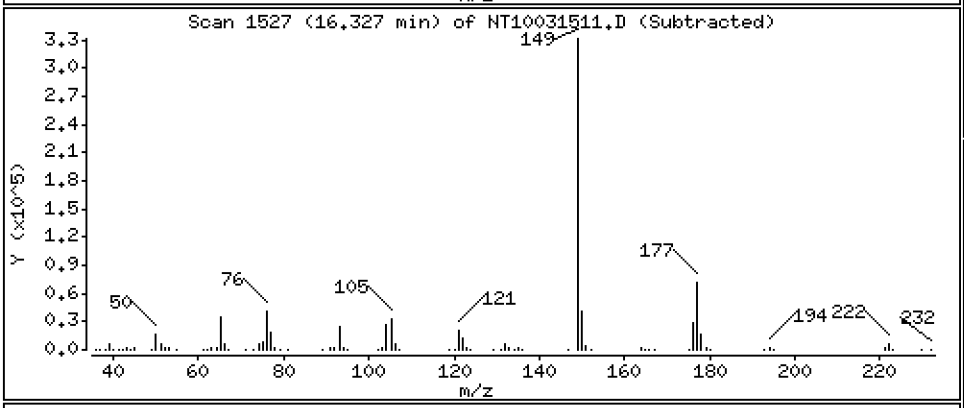
Column diameter: 0.25

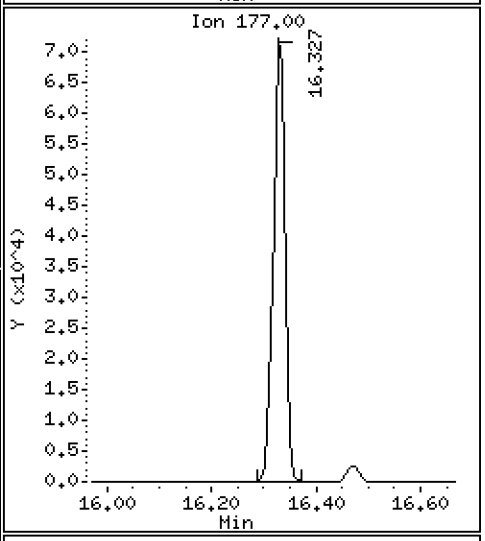
50 Diethylphthalate

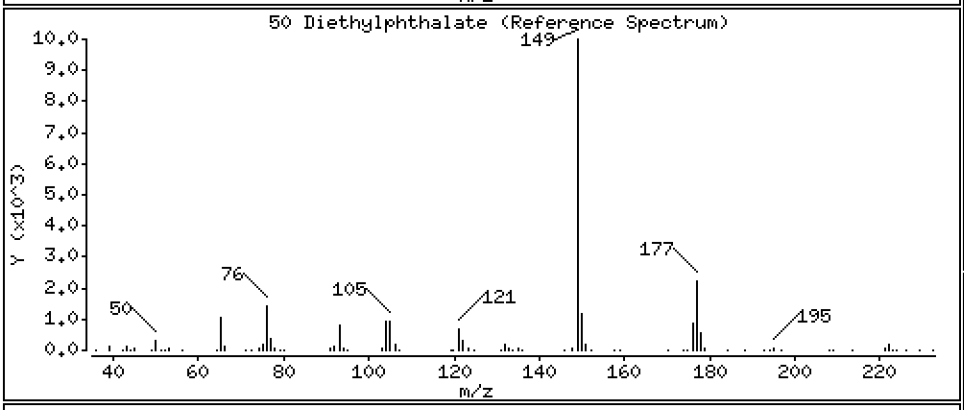
Concentration: 5.209 ug/mL

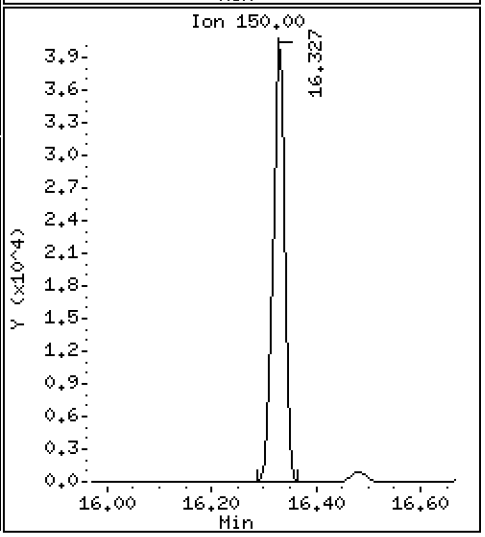


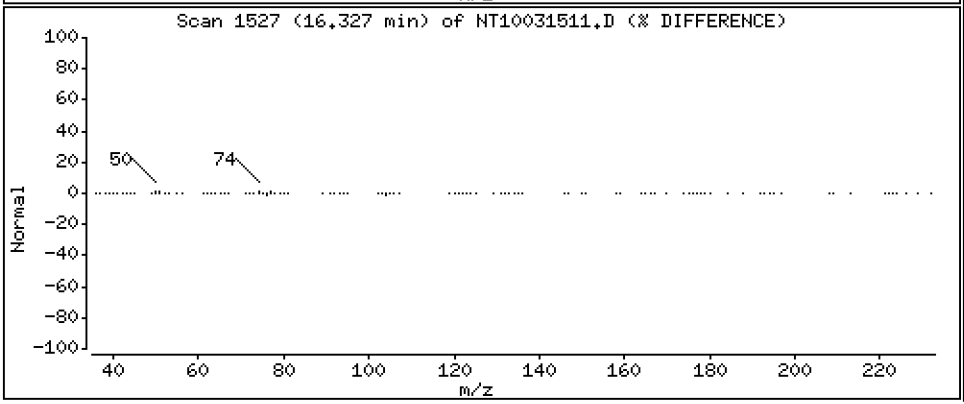












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

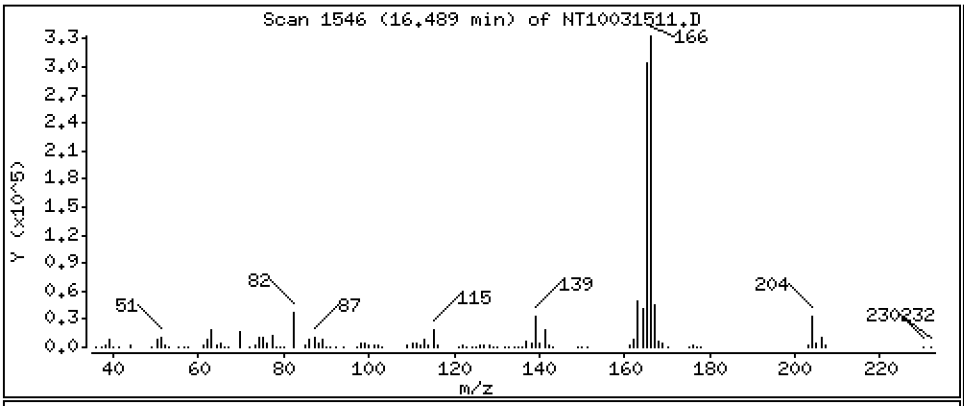
Operator: VTS

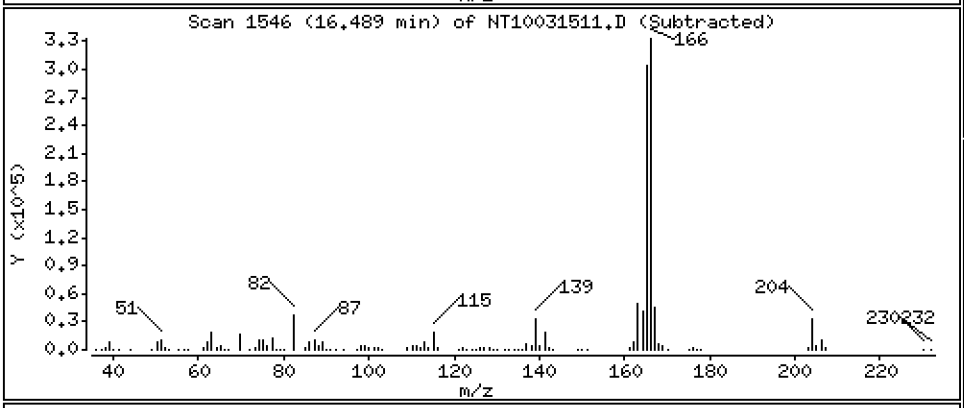
Column phase: ZB-5msi

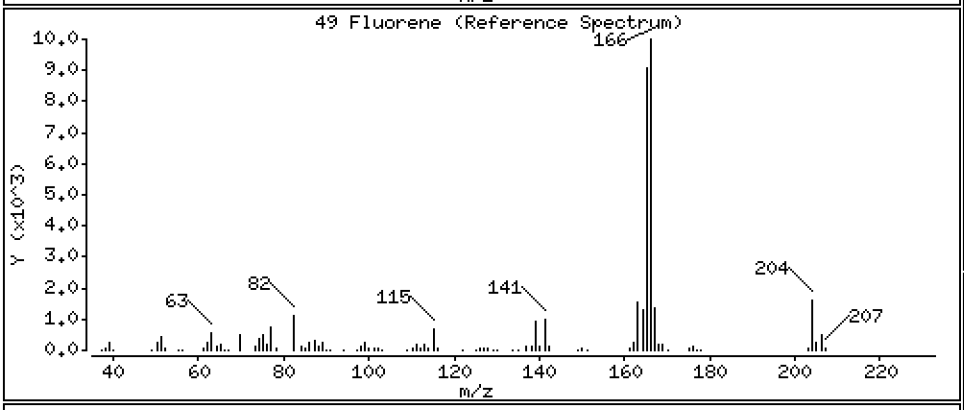
Column diameter: 0.25

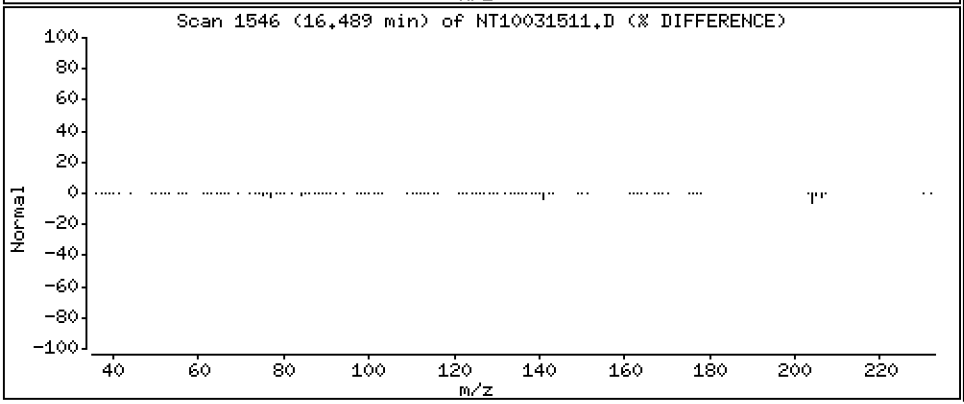
49 Fluorene

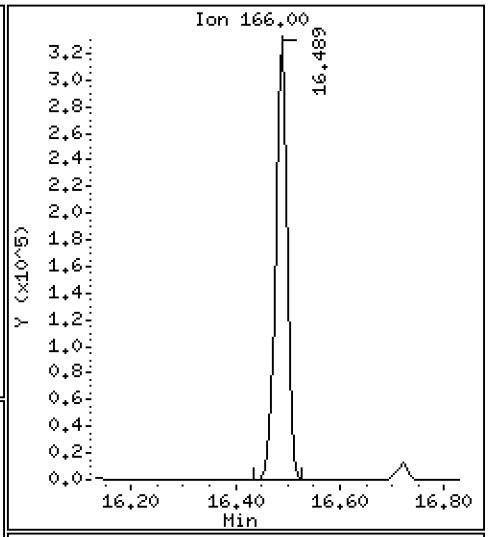
Concentration: 4.708 ug/mL

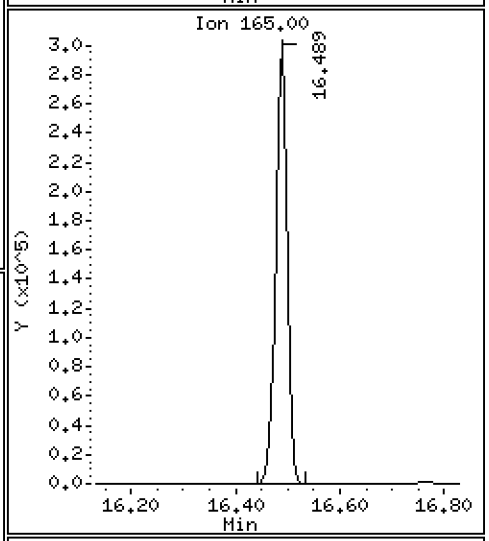


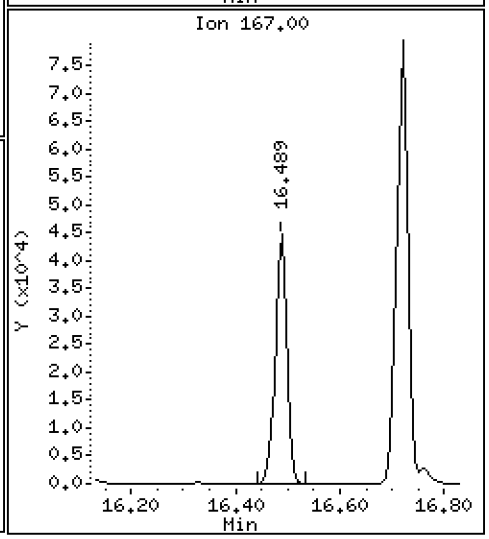












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

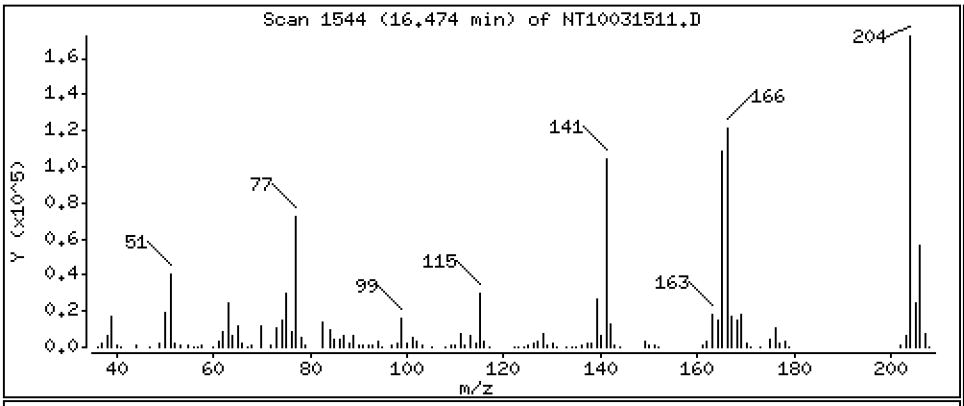
Operator: VTS

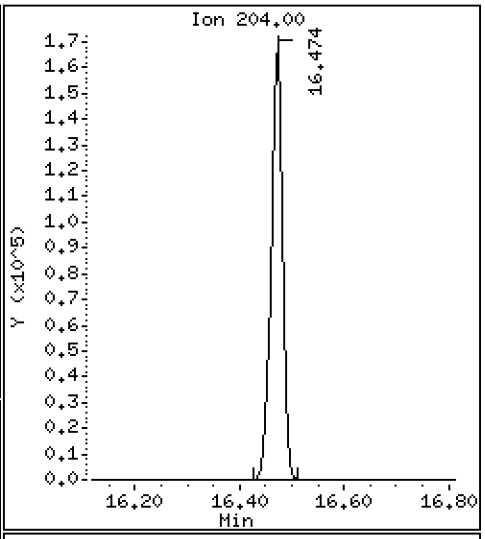
Column phase: ZB-5msi

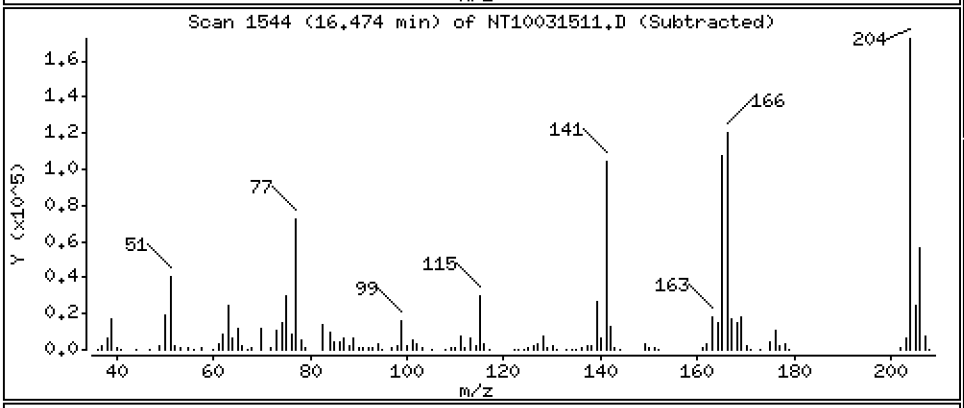
Column diameter: 0.25

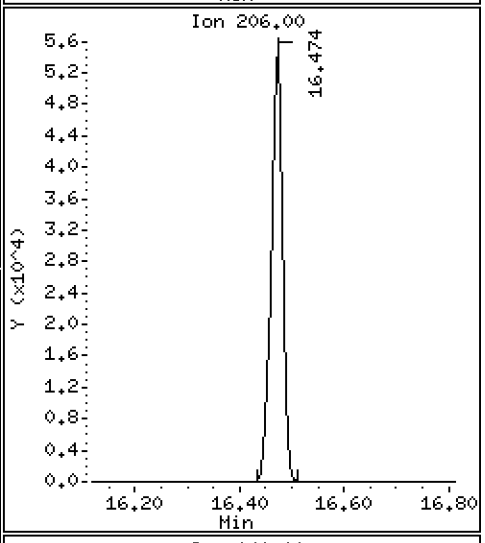
51 4-Chlorophenyl-phenylether

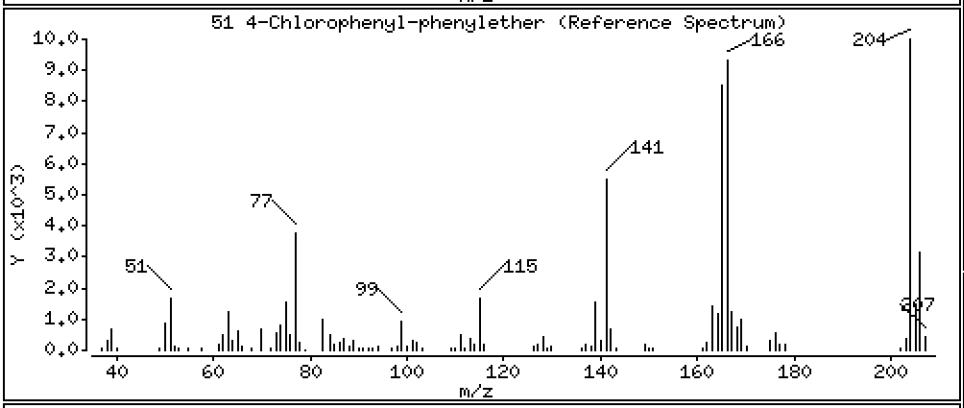
Concentration: 4.993 ug/mL

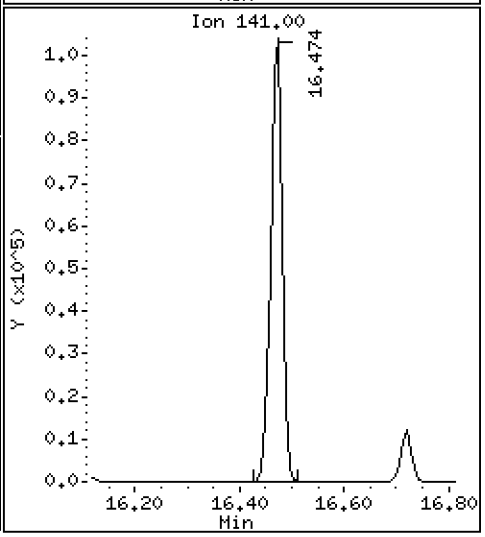


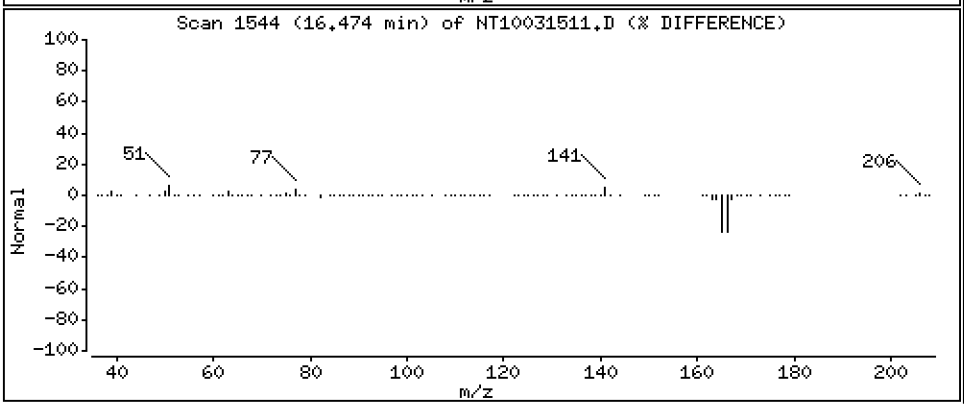












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

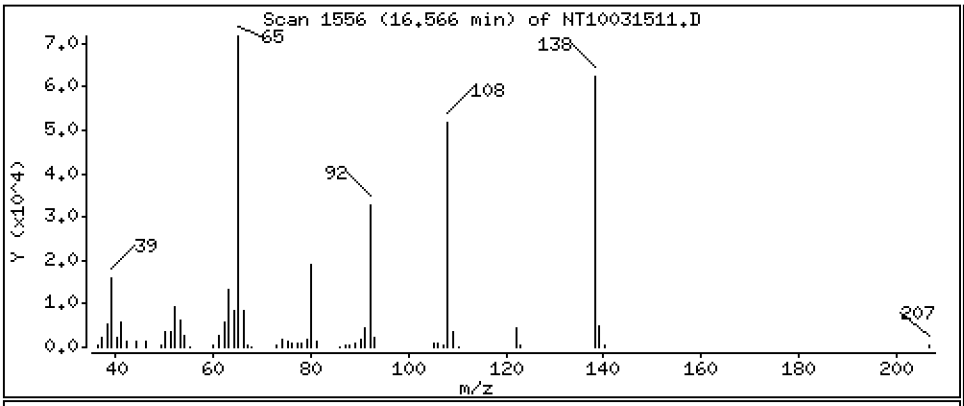
Operator: VTS

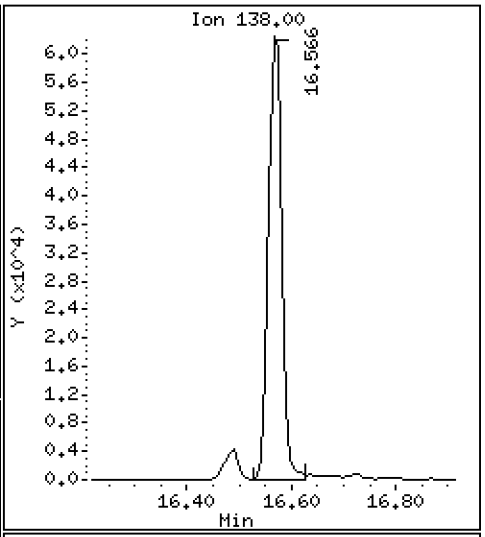
Column phase: ZB-5msi

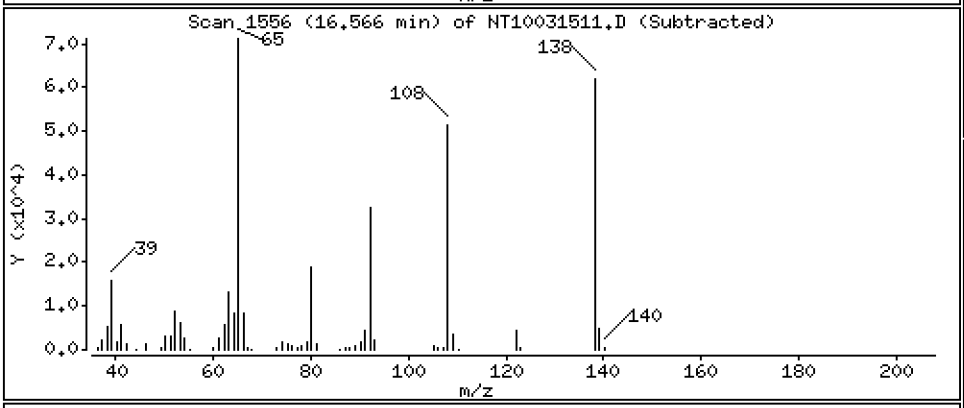
Column diameter: 0.25

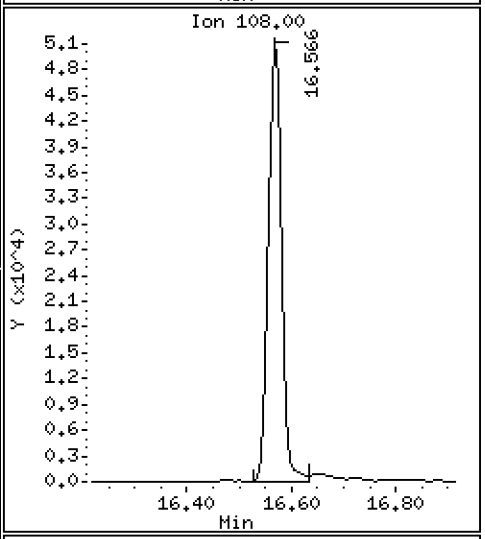
52 4-Nitroaniline

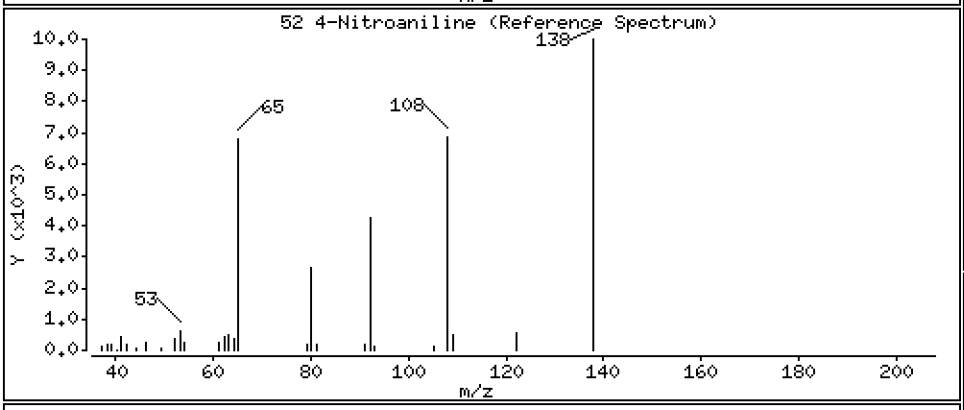
Concentration: 4.925 ug/mL

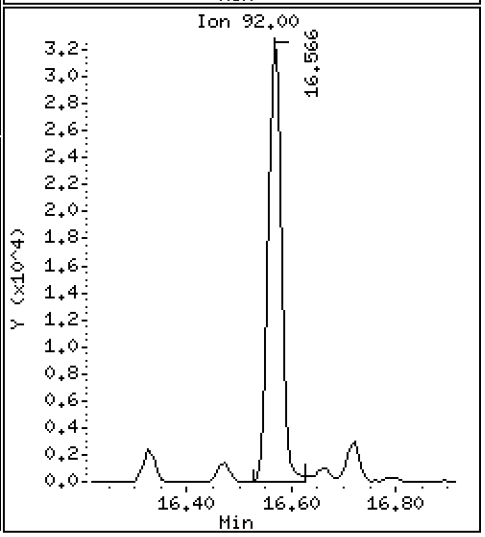


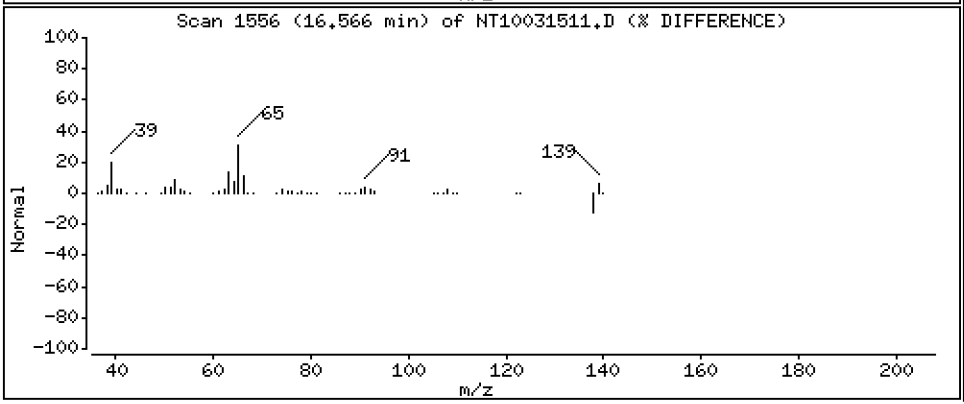












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

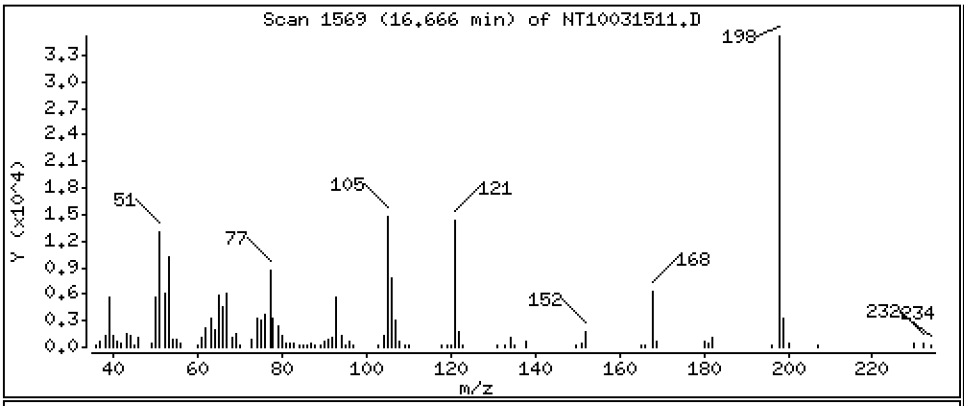
Operator: VTS

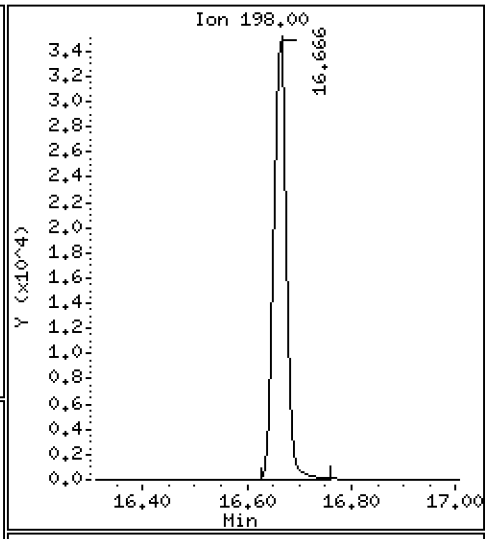
Column phase: ZB-5msi

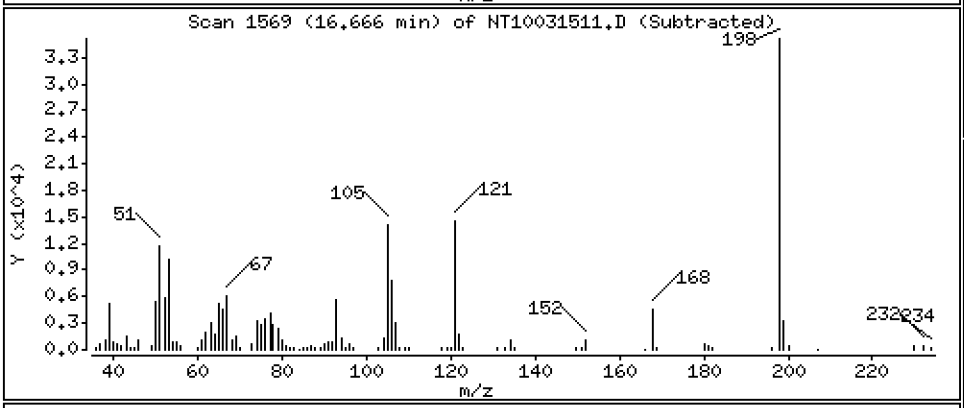
Column diameter: 0.25

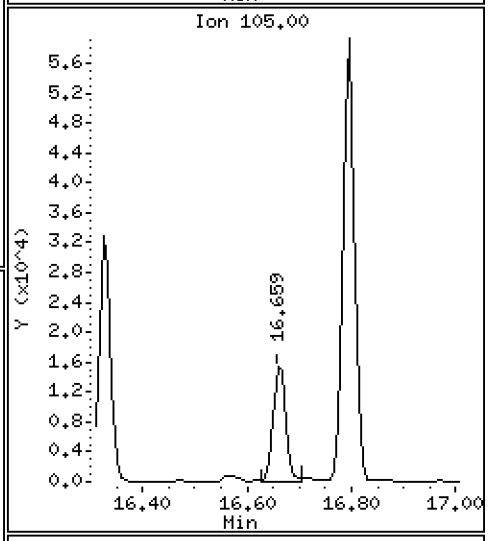
53 4,6-Dinitro-2-methylphenol

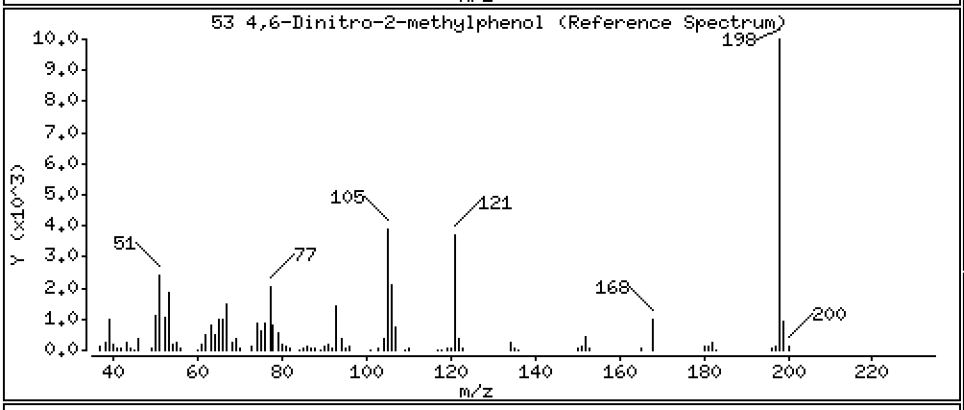
Concentration: 3.515 ug/mL

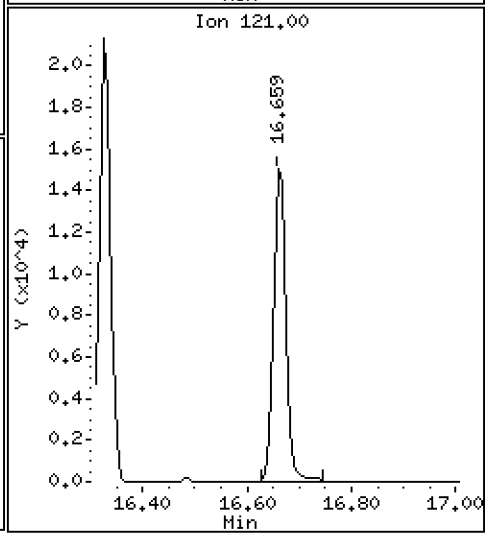


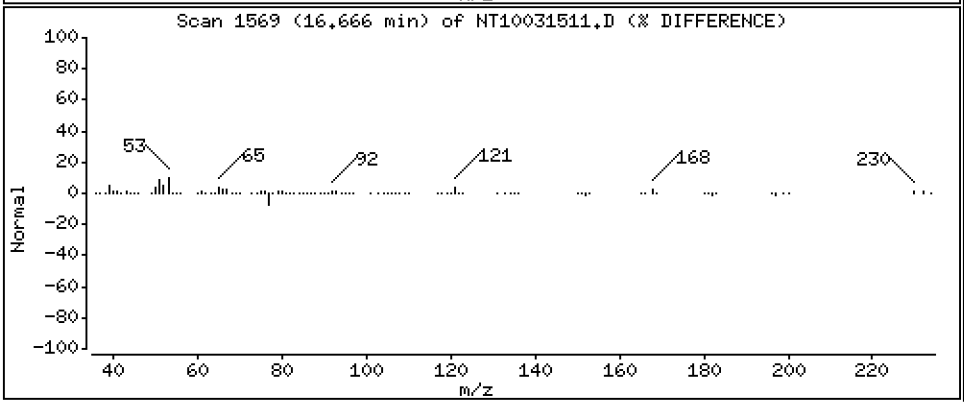












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

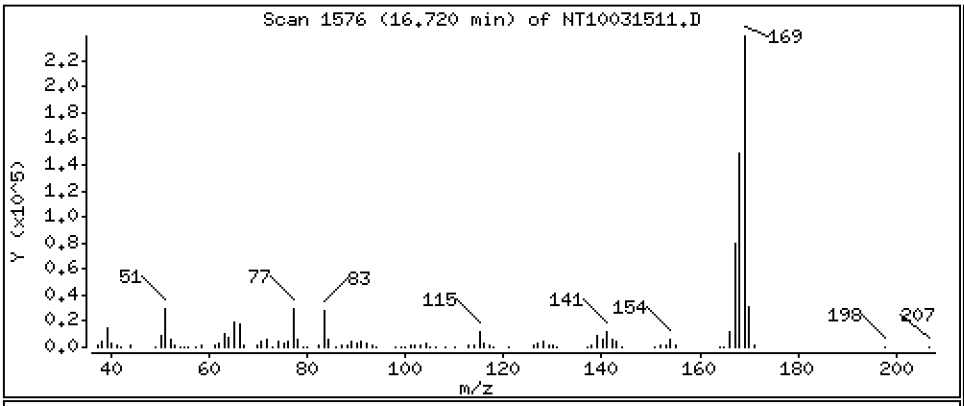
Operator: VTS

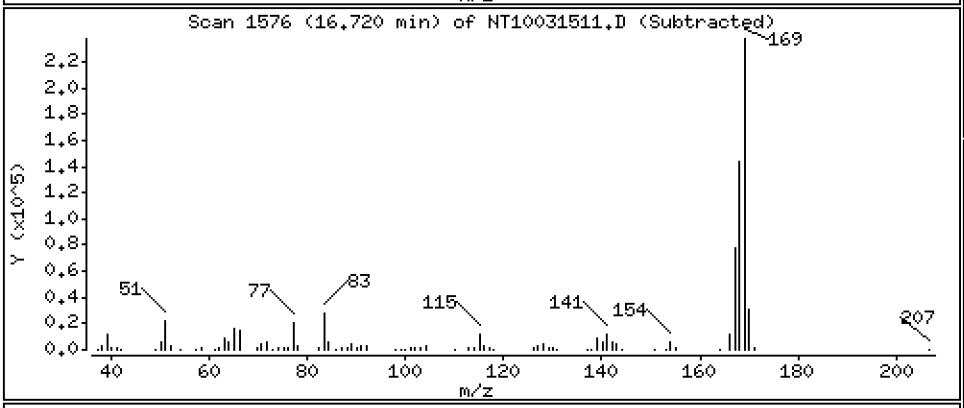
Column phase: ZB-5msi

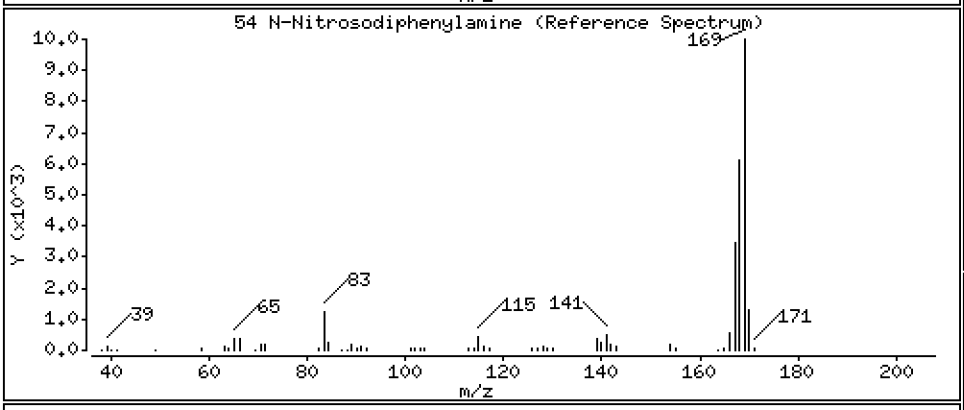
Column diameter: 0.25

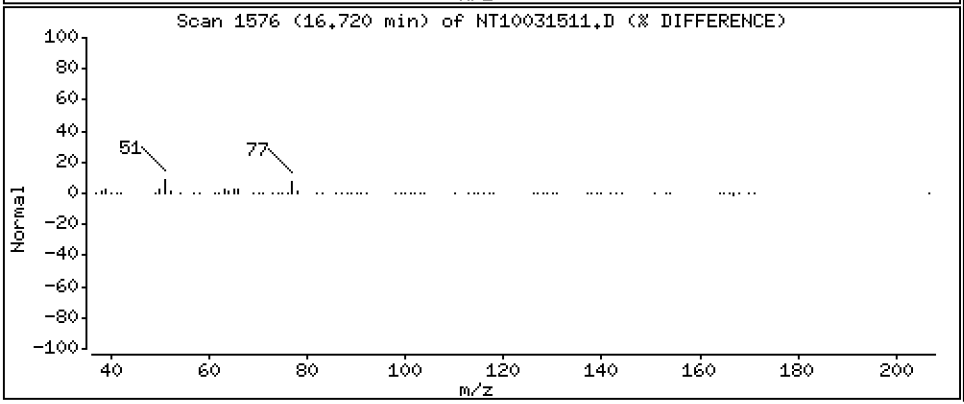
54 N-Nitrosodiphenylamine

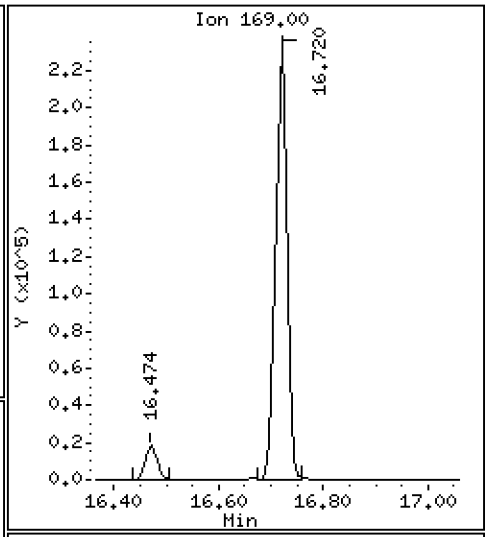
Concentration: 4.802 ug/mL

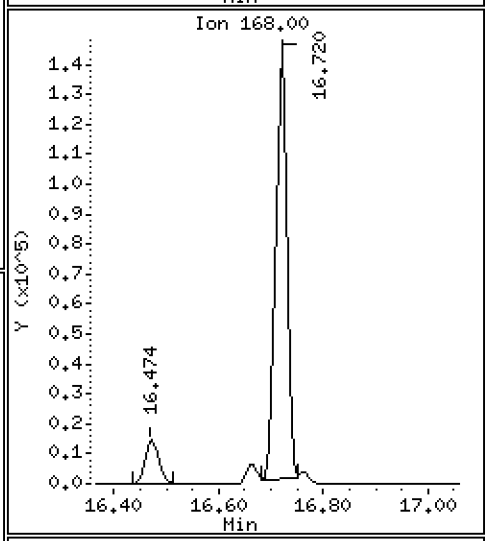


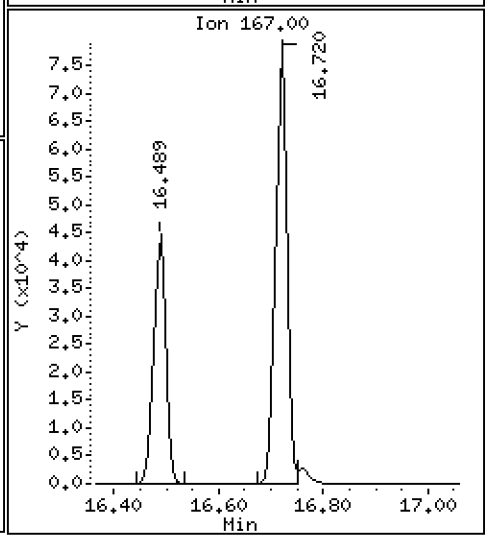












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

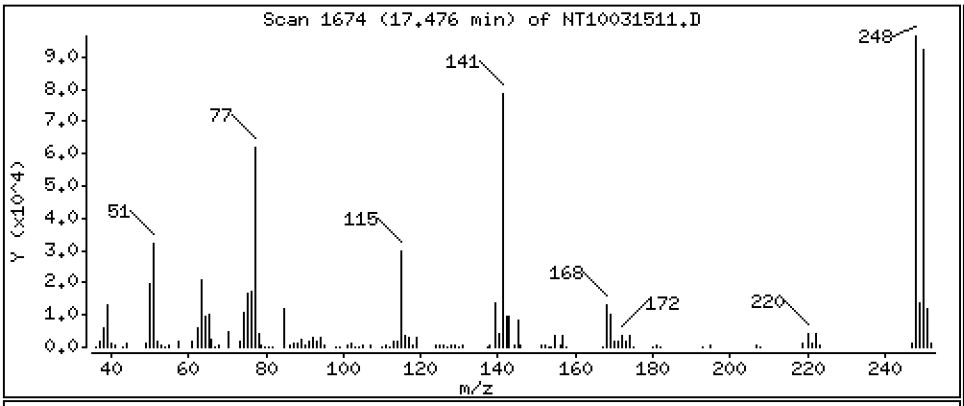
Operator: VTS

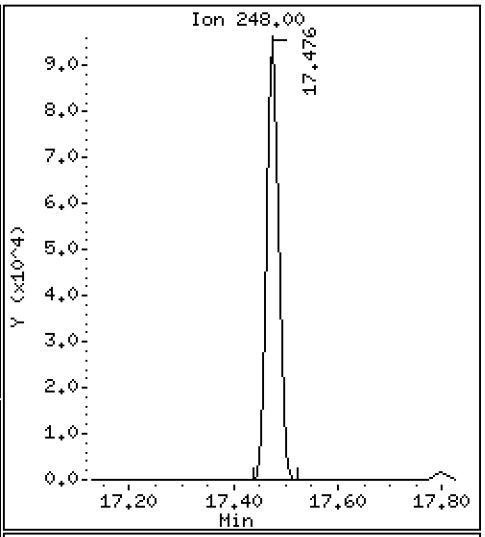
Column phase: ZB-5msi

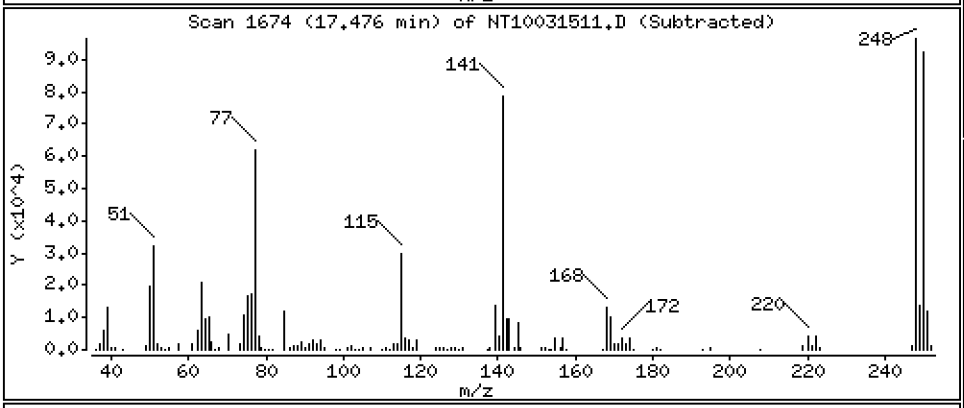
Column diameter: 0.25

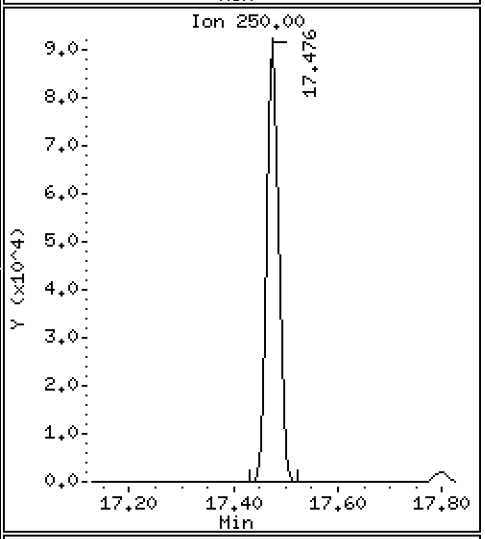
56 4-Bromophenyl-phenylether

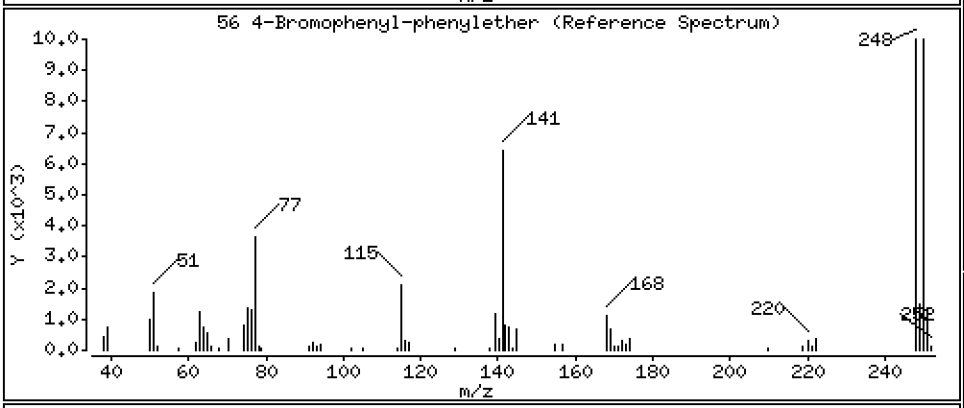
Concentration: 5.060 ug/mL

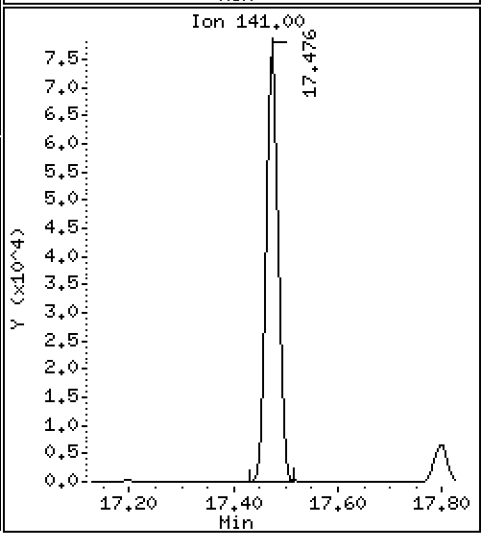


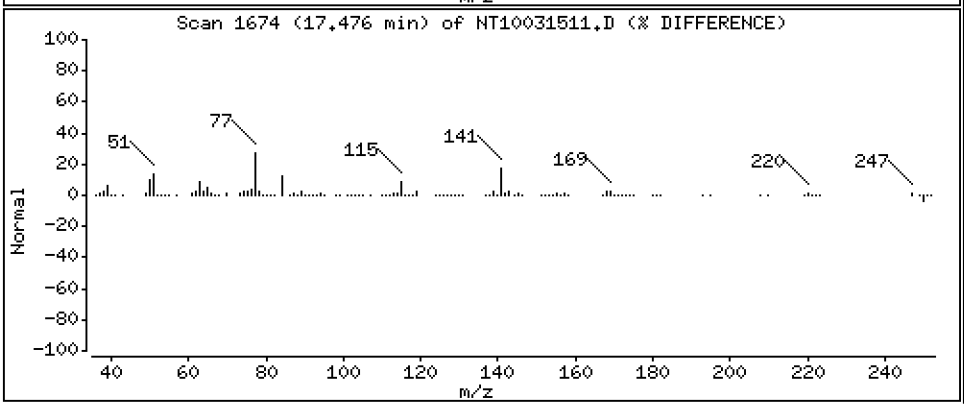












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

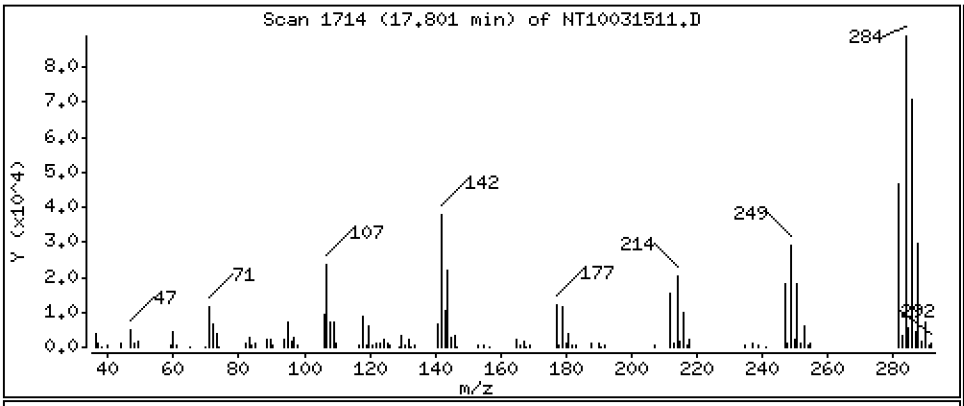
Operator: VTS

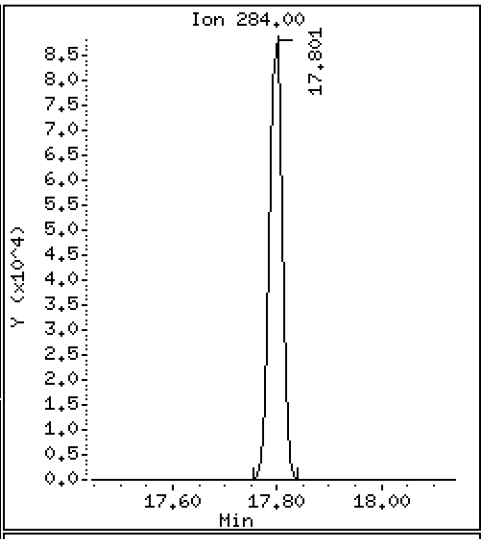
Column phase: ZB-5msi

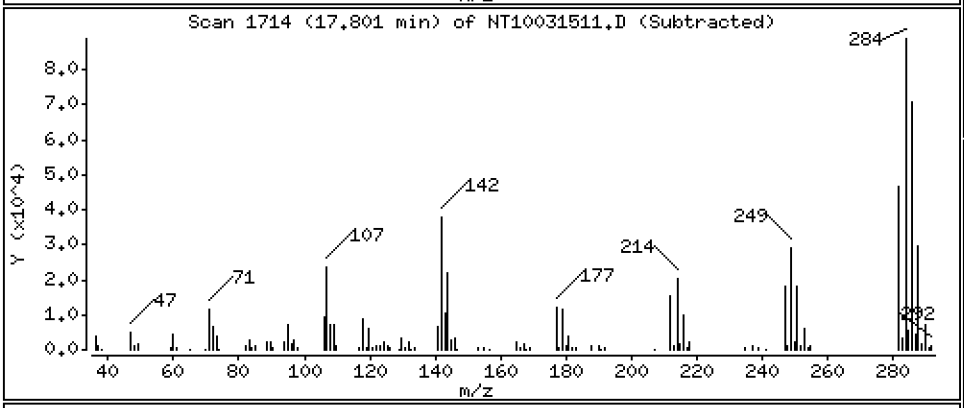
Column diameter: 0.25

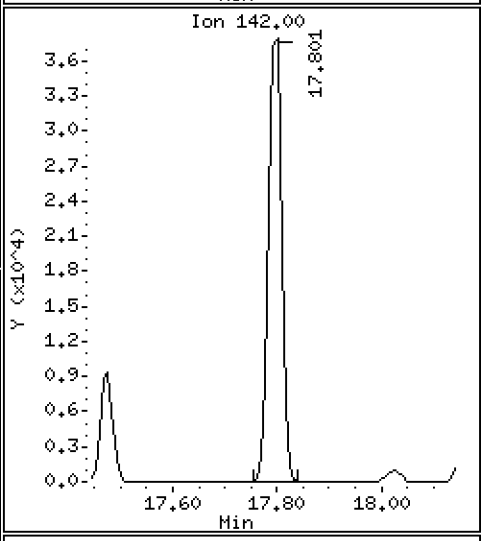
57 Hexachlorobenzene

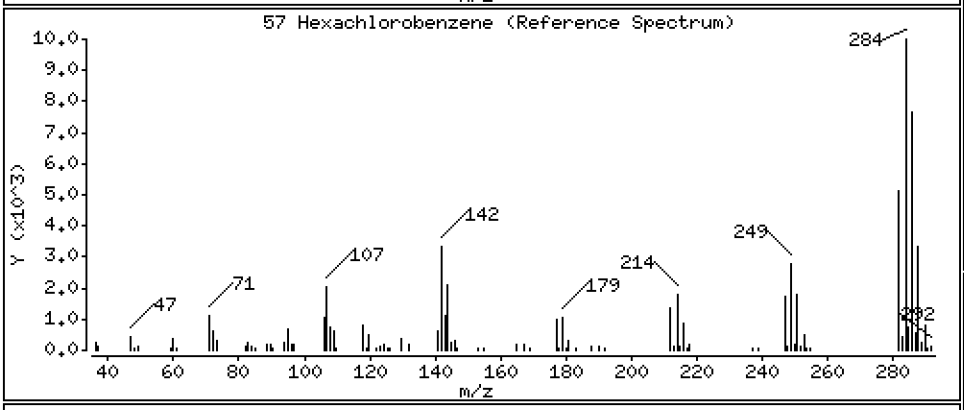
Concentration: 4.596 ug/mL

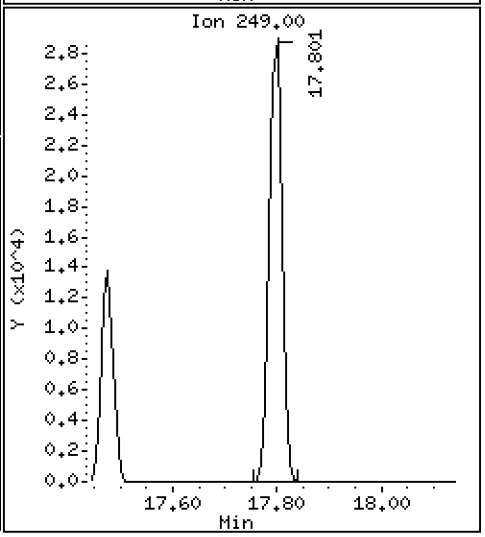


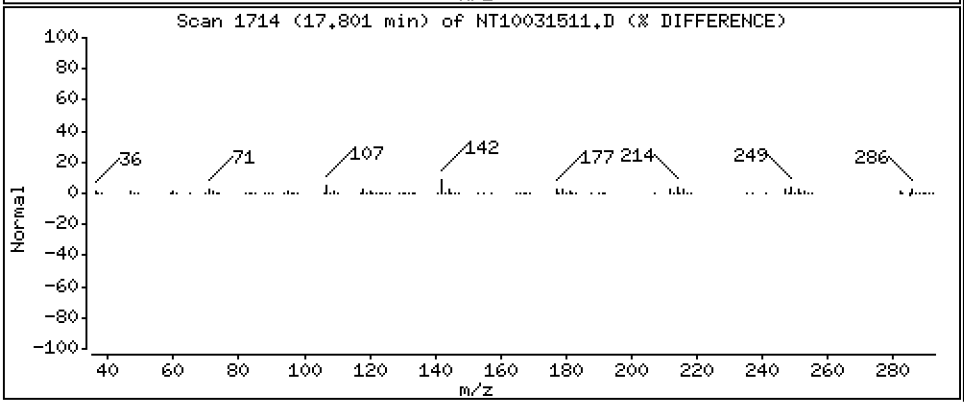












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

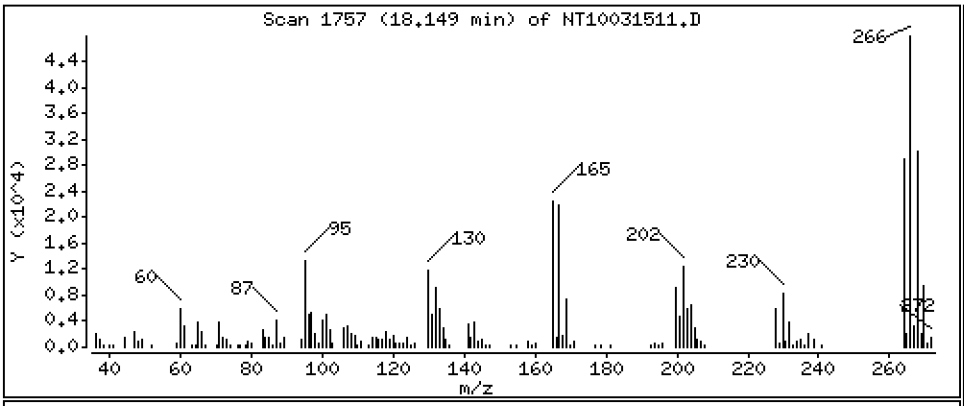
Operator: VTS

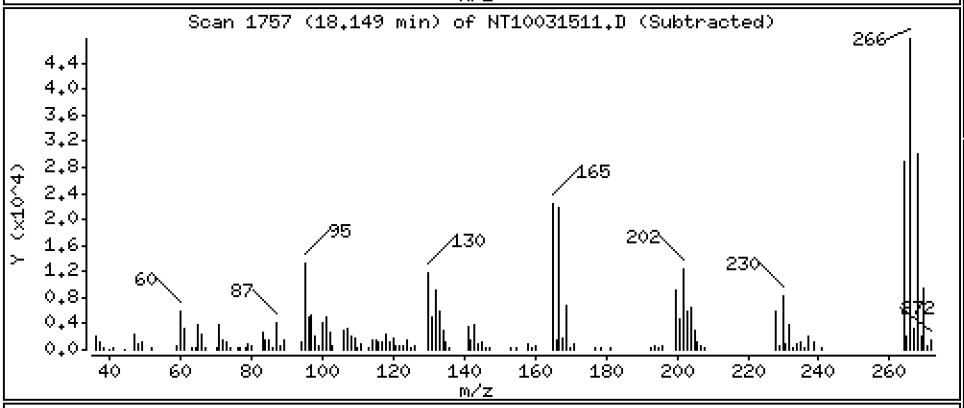
Column phase: ZB-5msi

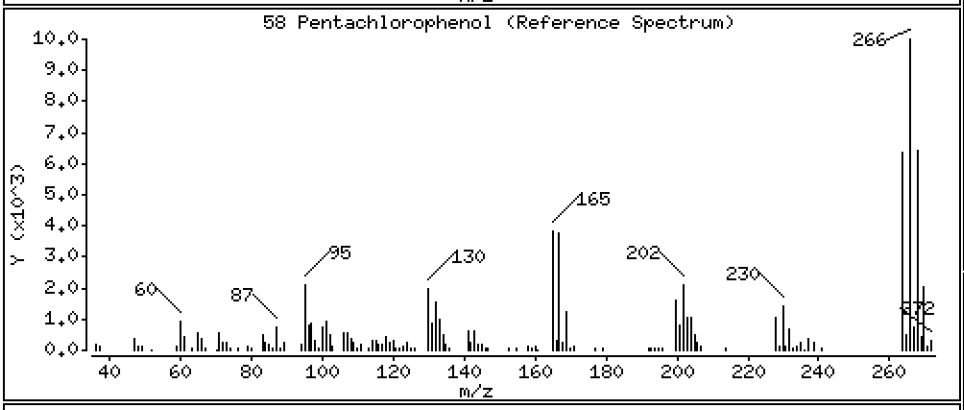
Column diameter: 0.25

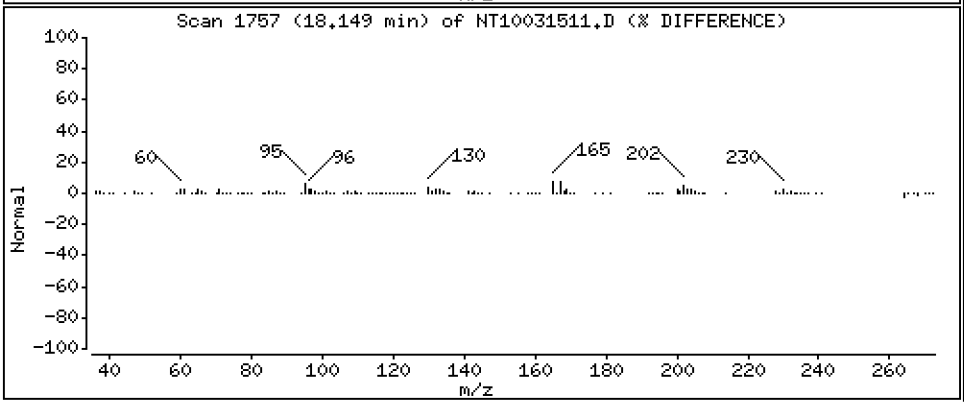
58 Pentachlorophenol

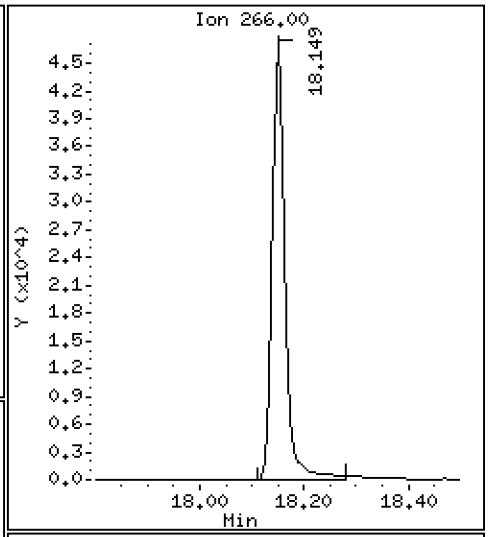
Concentration: 4.057 ug/mL

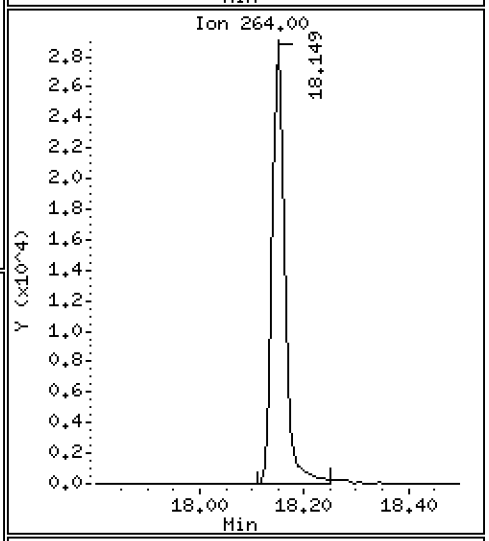


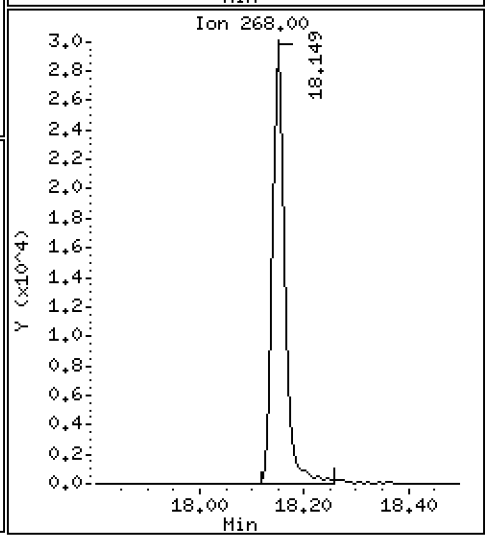












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

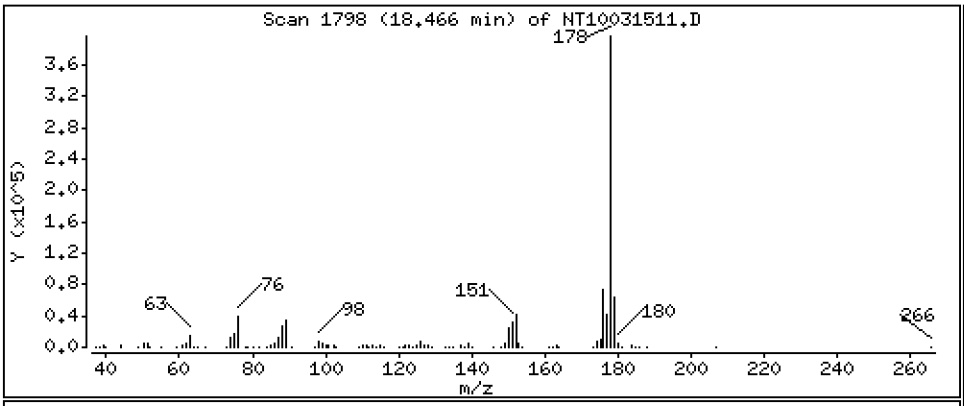
Operator: VTS

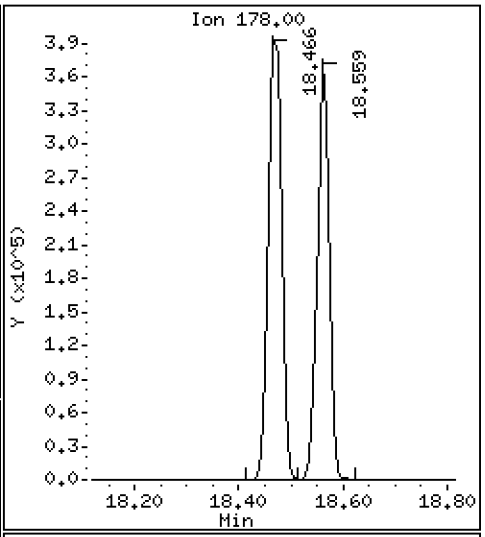
Column phase: ZB-5msi

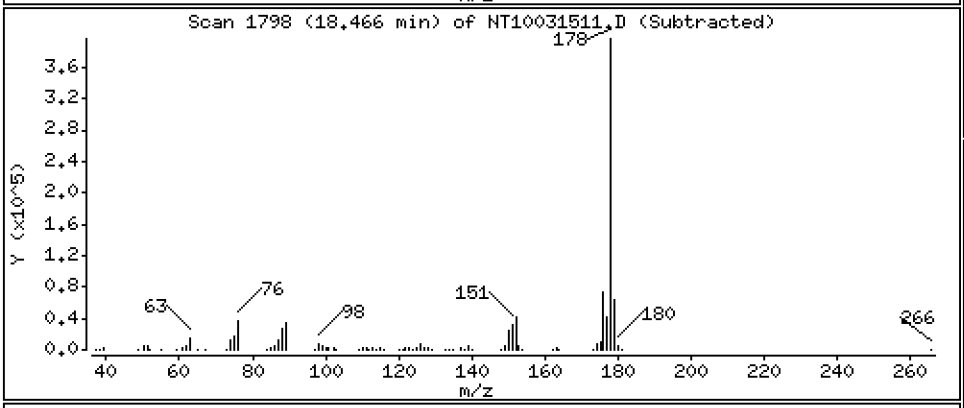
Column diameter: 0.25

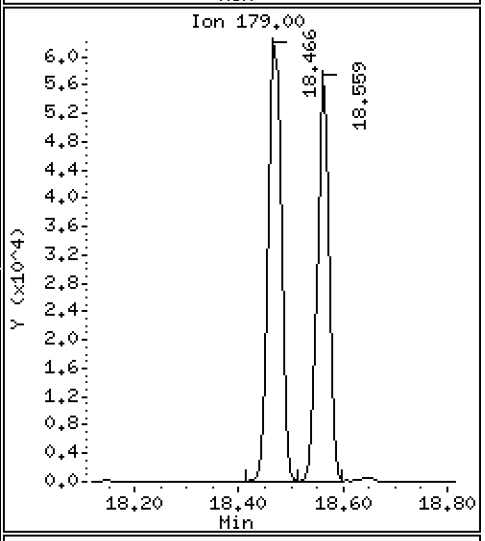
60 Phenanthrene

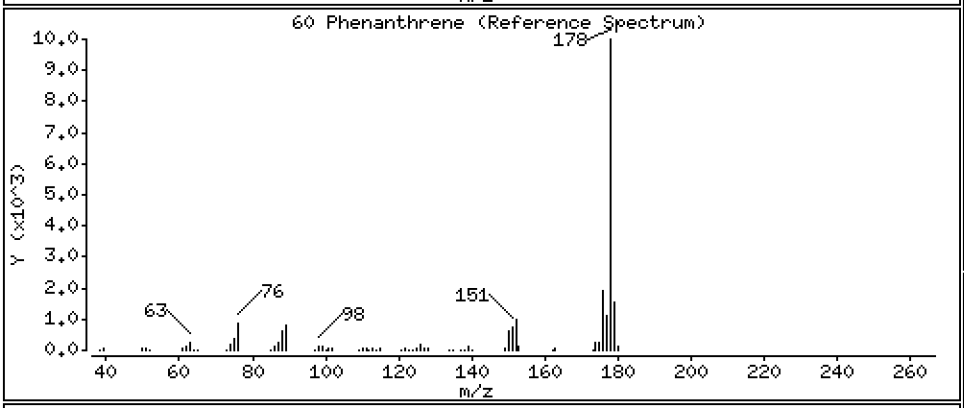
Concentration: 4.602 ug/mL

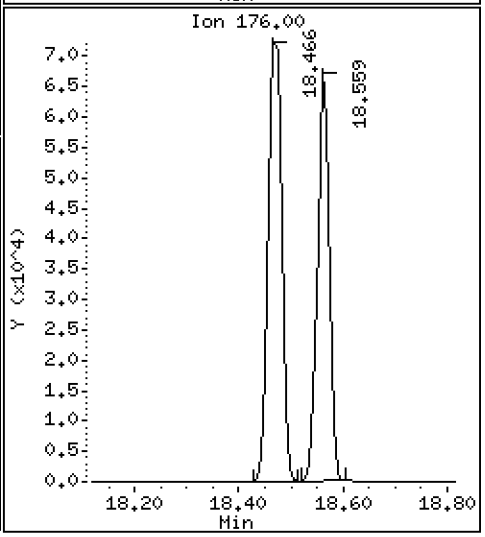


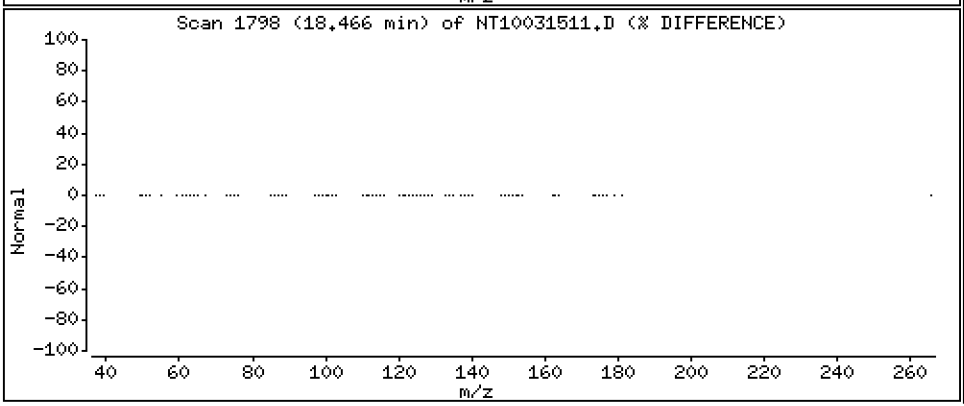












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

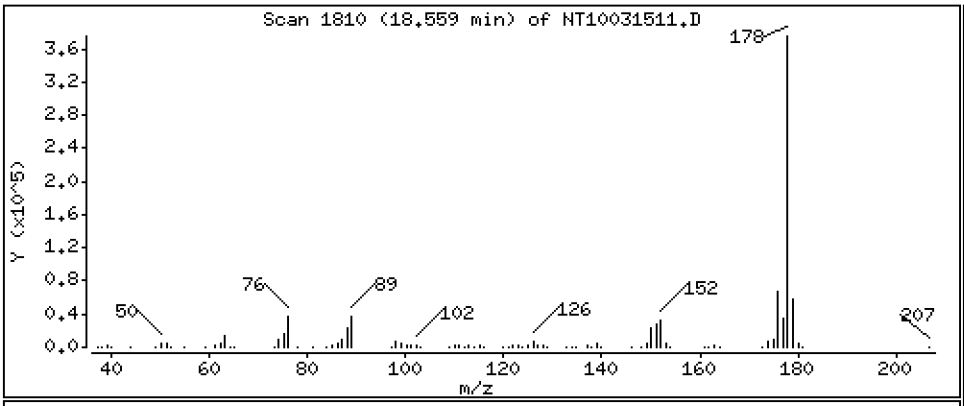
Operator: VTS

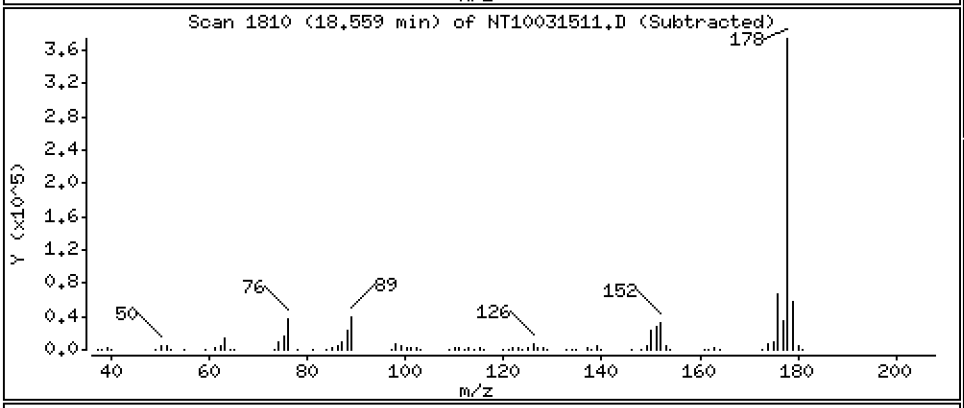
Column phase: ZB-5msi

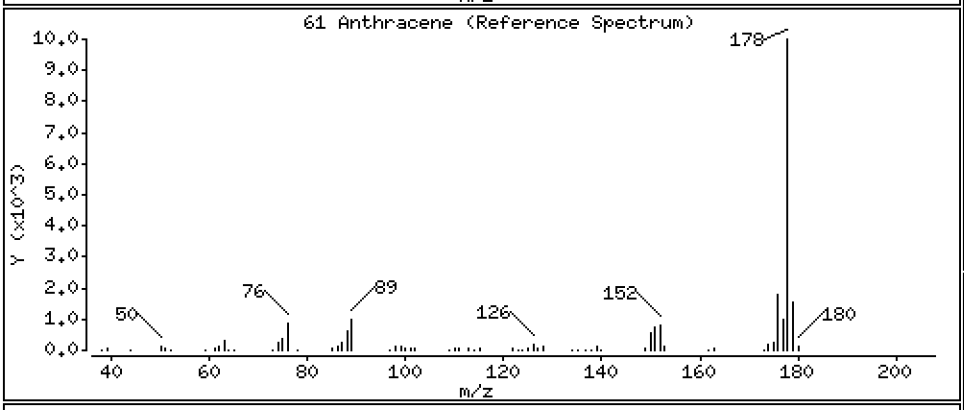
Column diameter: 0.25

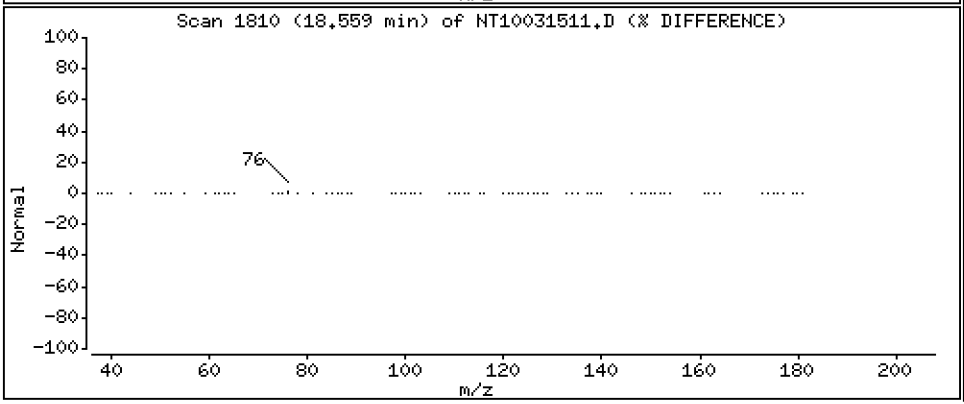
61 Anthracene

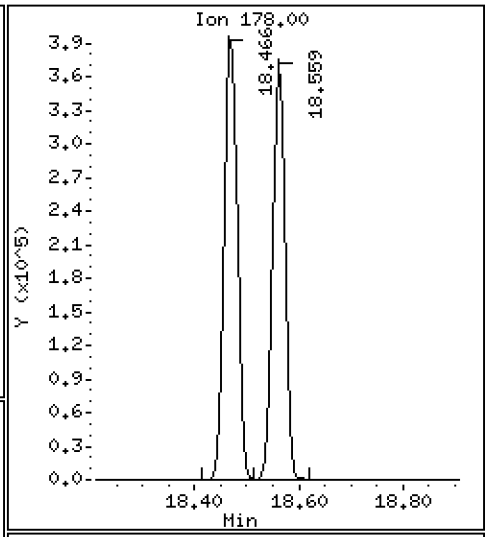
Concentration: 4.167 ug/mL

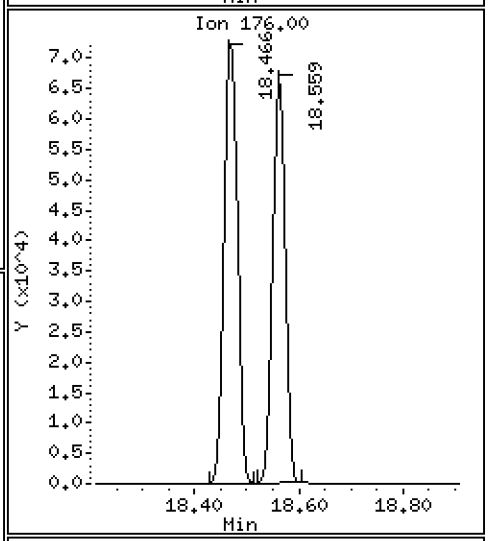


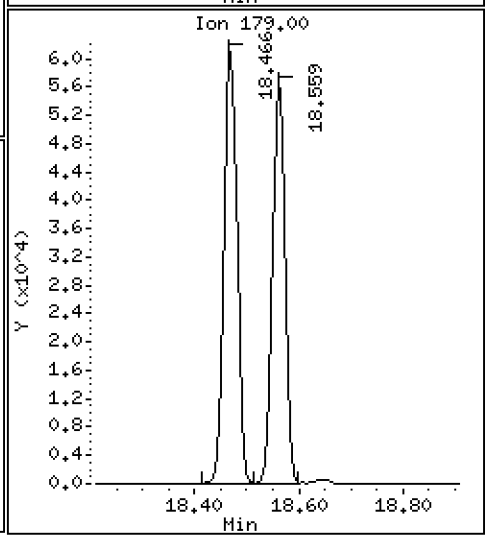












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

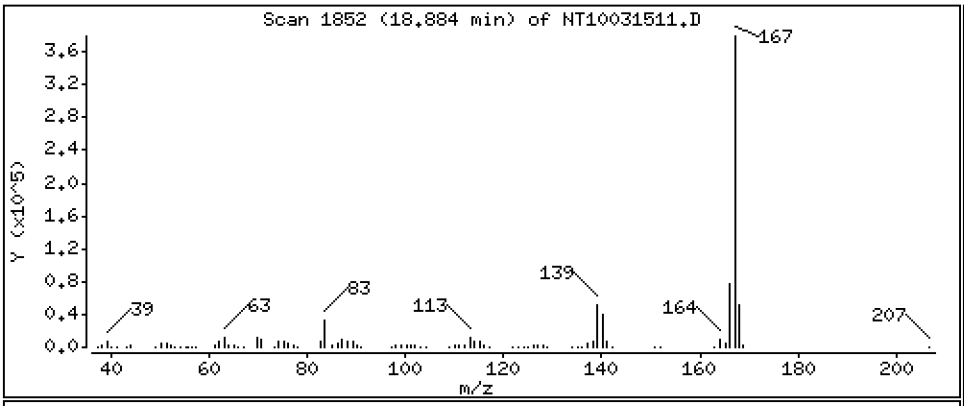
Operator: VTS

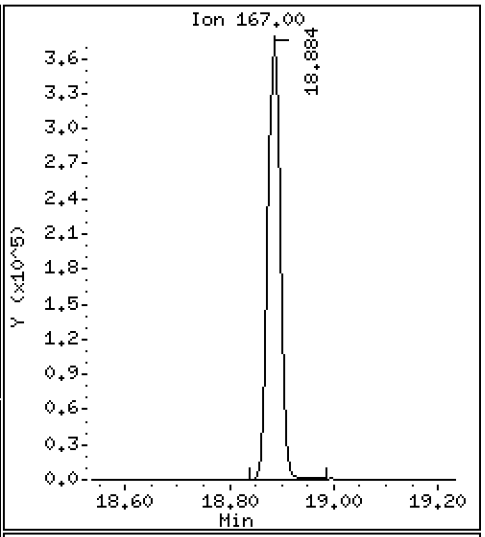
Column phase: ZB-5msi

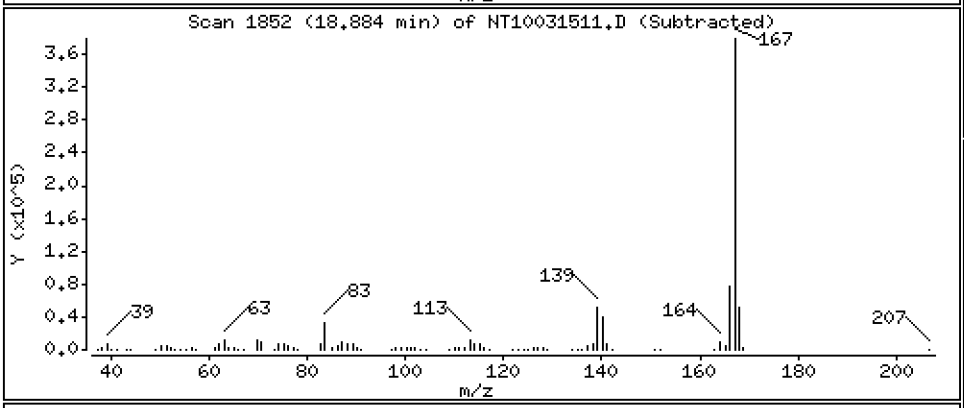
Column diameter: 0.25

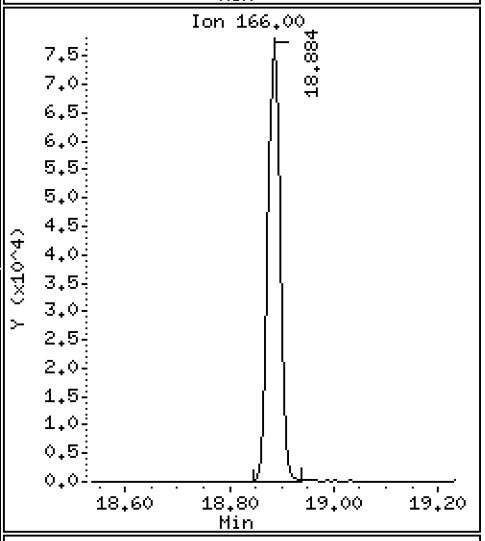
62 Carbazole

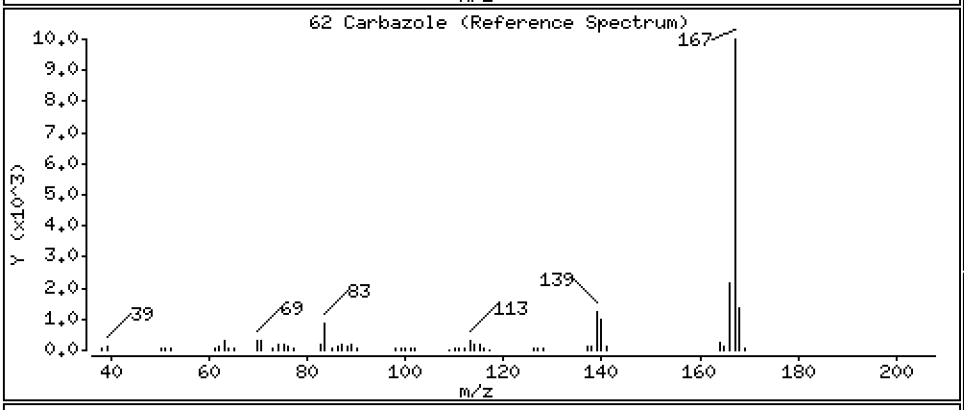
Concentration: 4.730 ug/mL

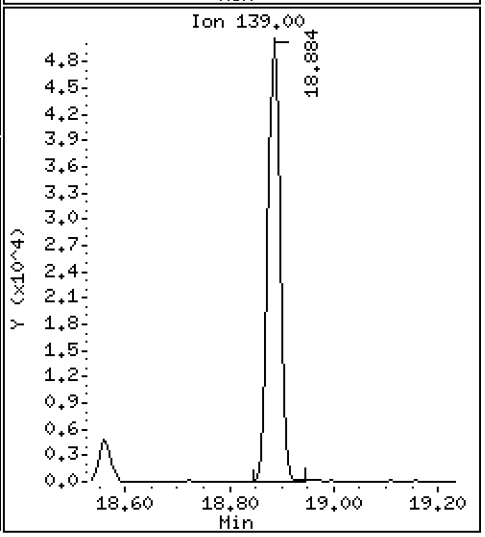


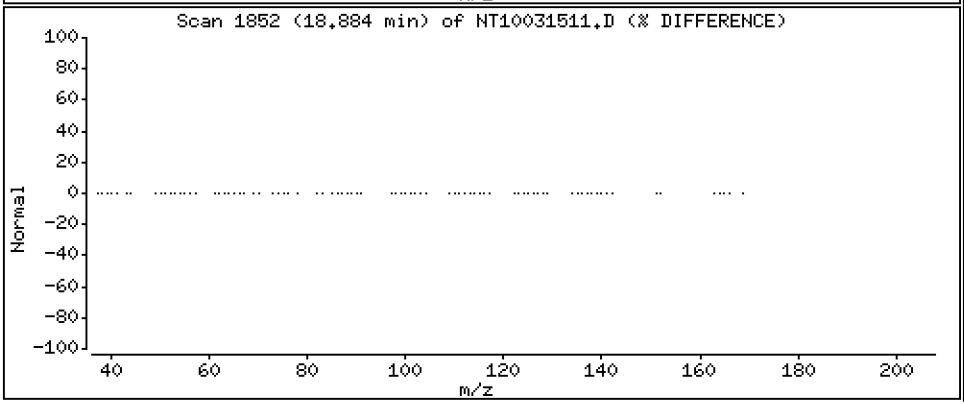












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

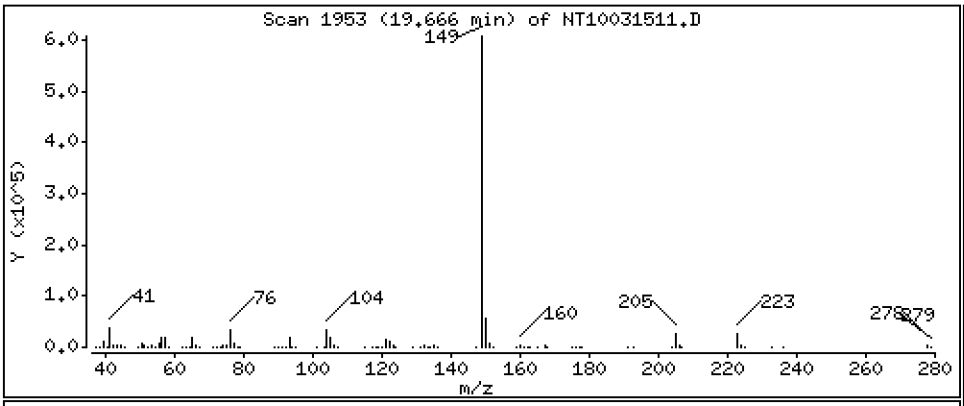
Operator: VTS

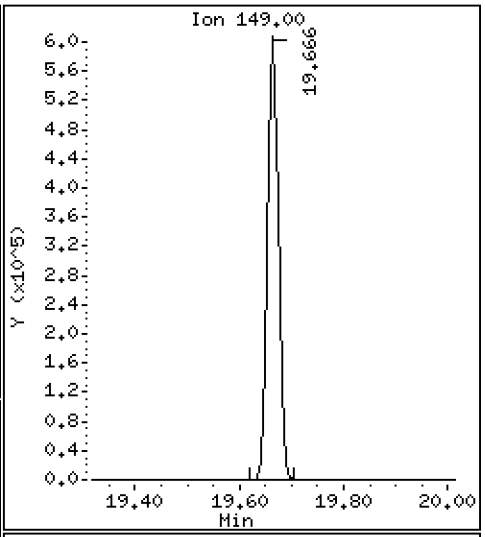
Column phase: ZB-5msi

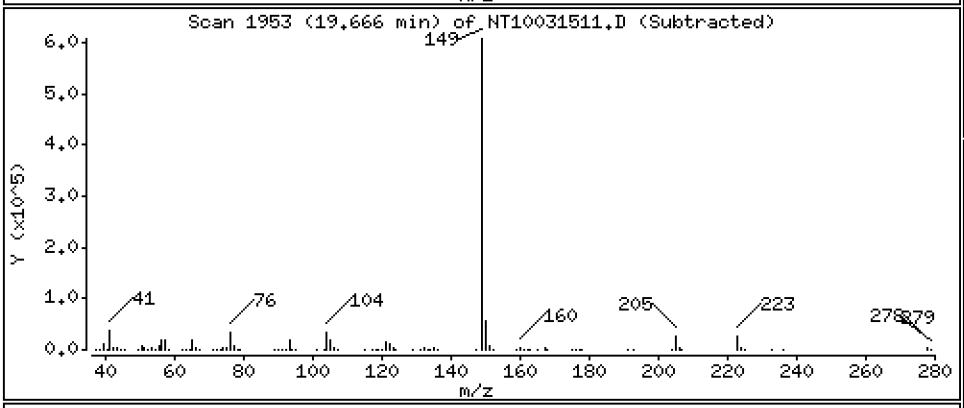
Column diameter: 0.25

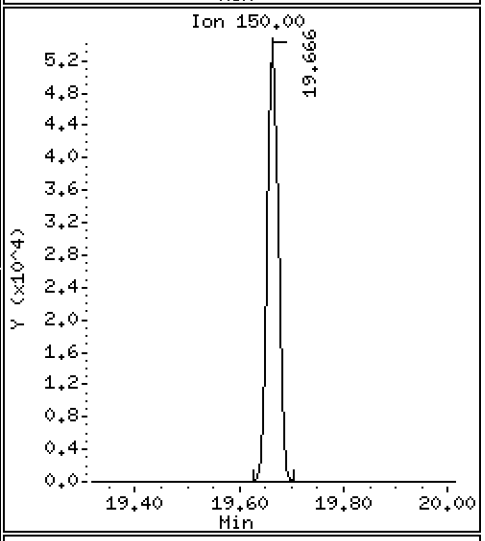
63 Di-n-butylphthalate

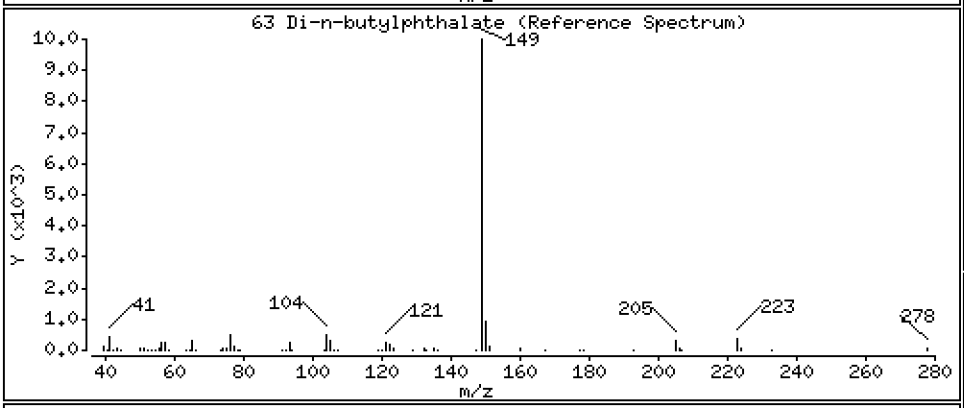
Concentration: 4.967 ug/mL

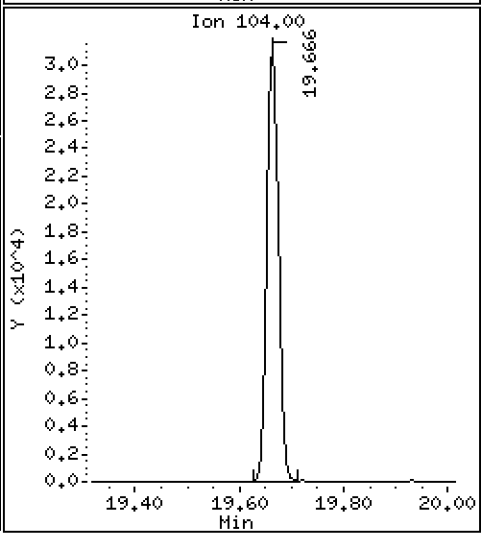


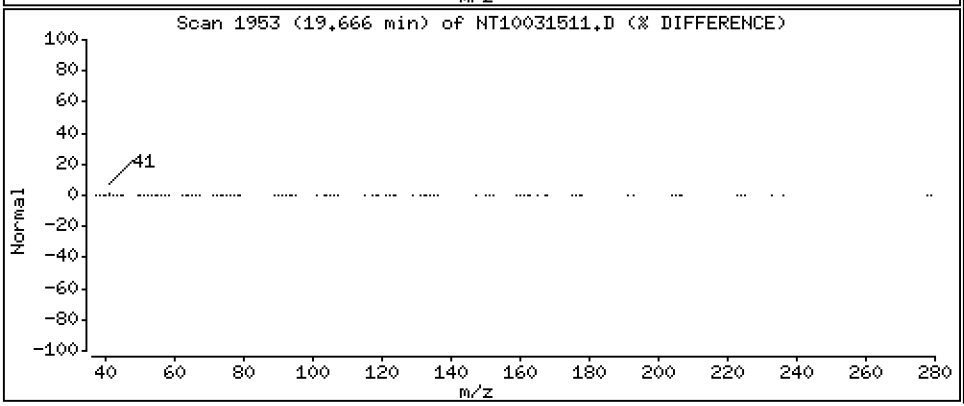












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

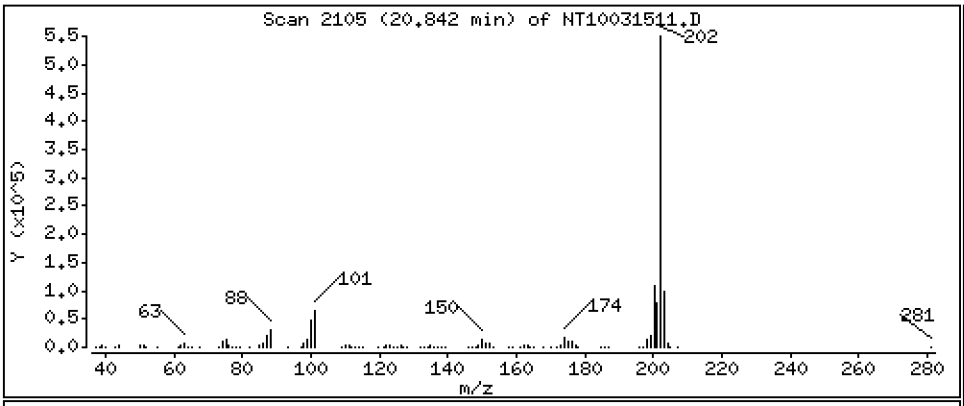
Operator: VTS

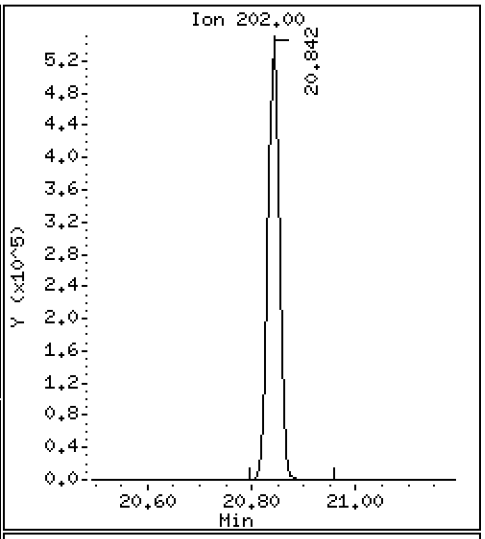
Column phase: ZB-5msi

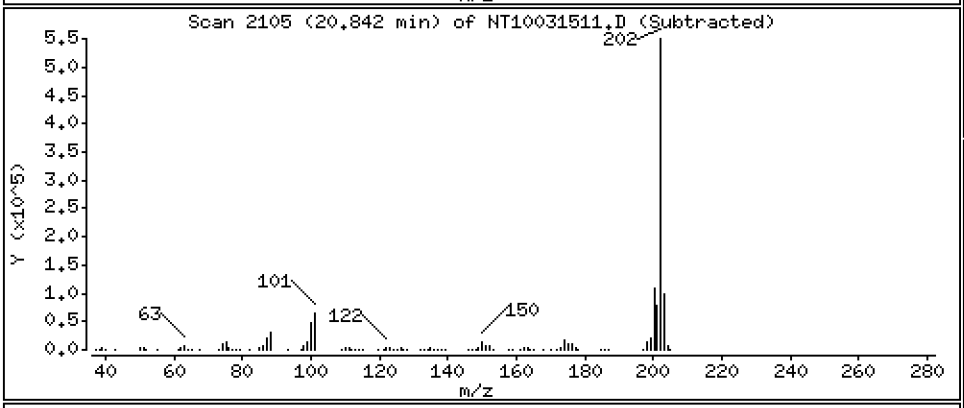
Column diameter: 0.25

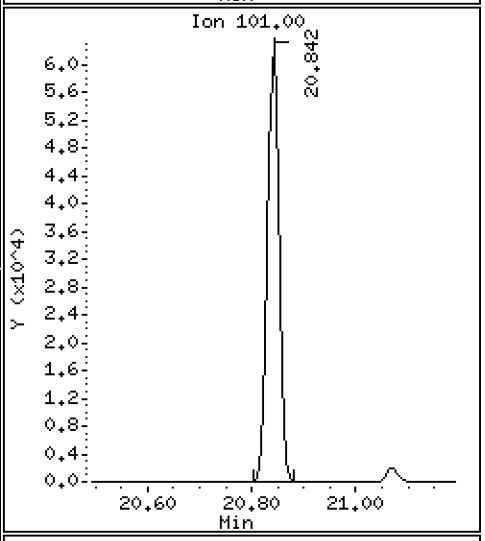
64 Fluoranthene

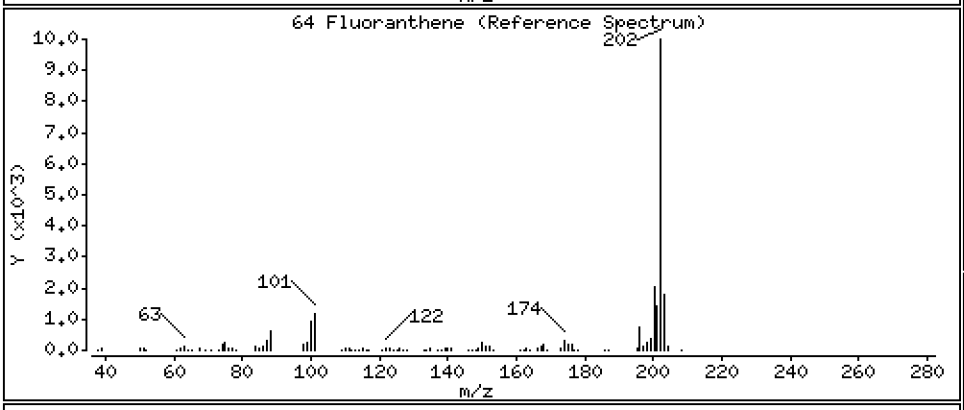
Concentration: 4.472 ug/mL

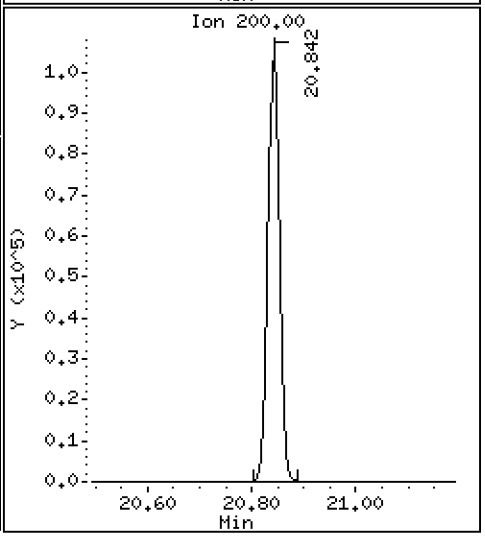


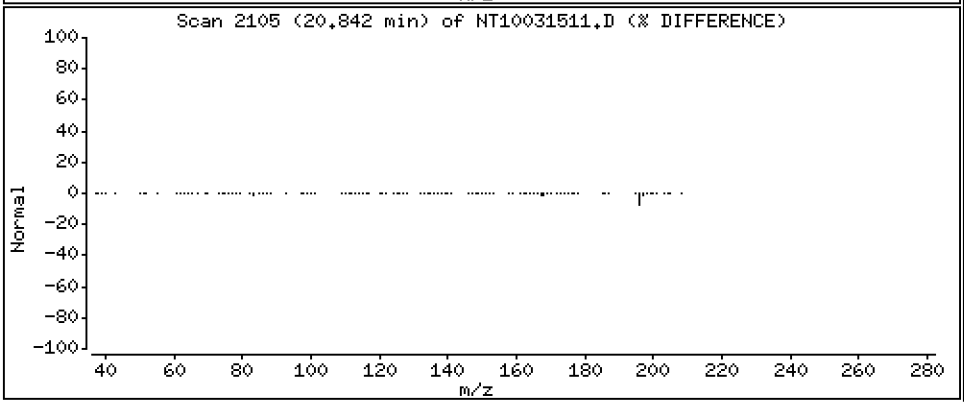












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

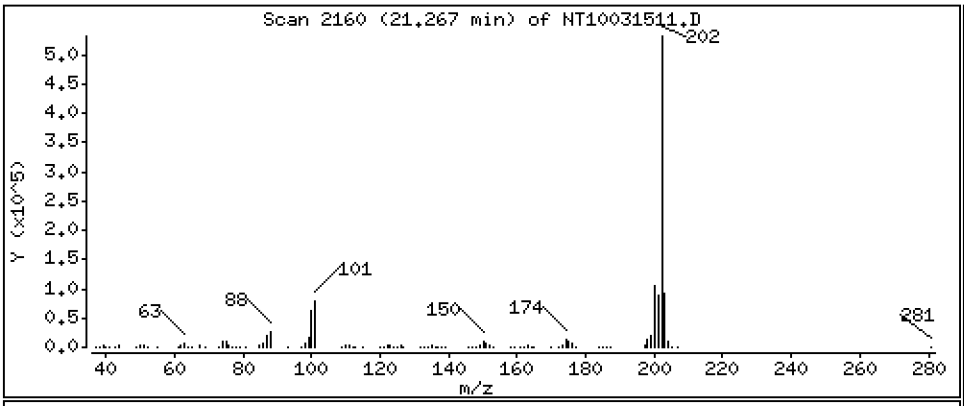
Operator: VTS

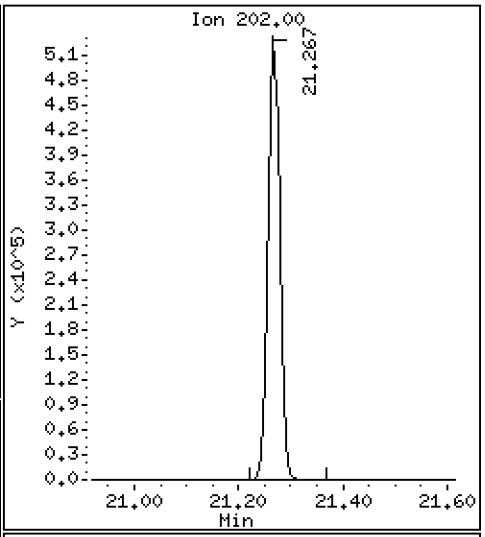
Column phase: ZB-5msi

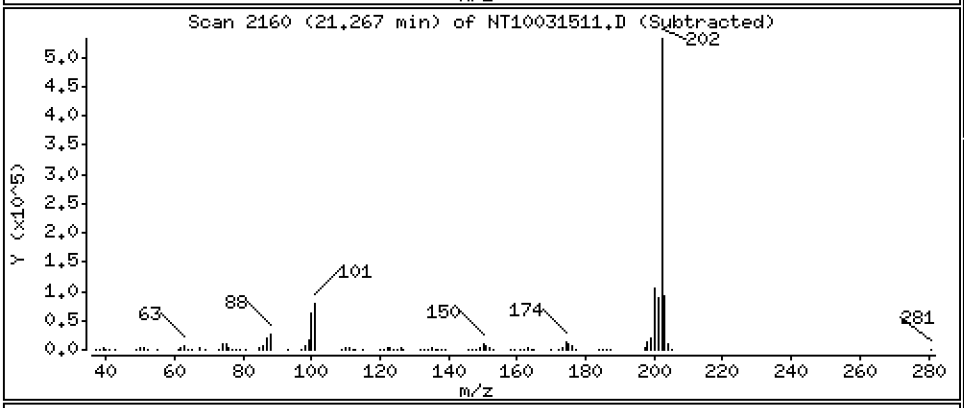
Column diameter: 0.25

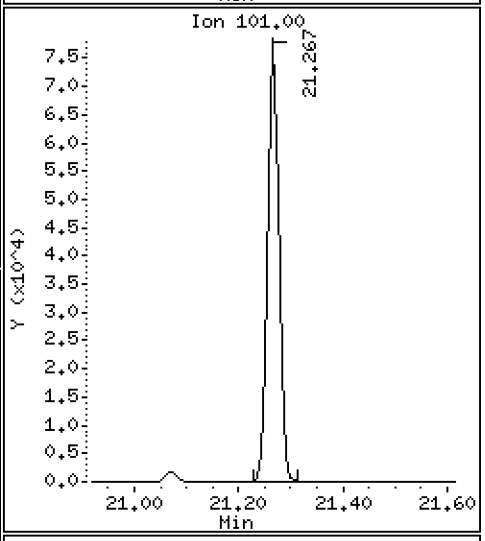
65 Pyrene

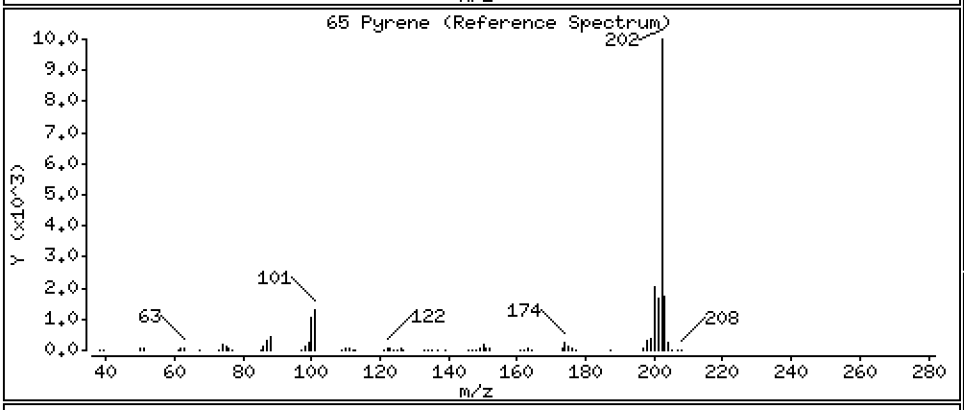
Concentration: 4.339 ug/mL

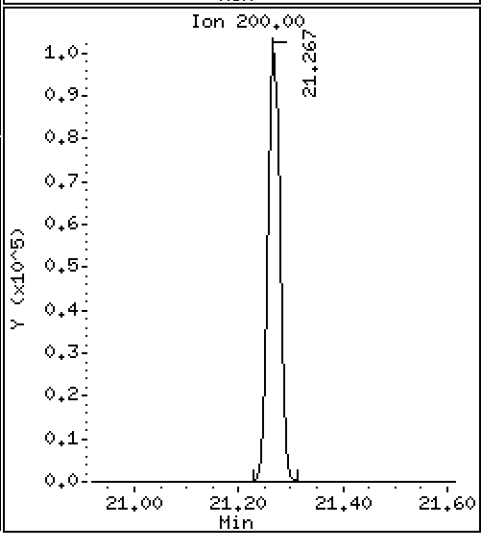


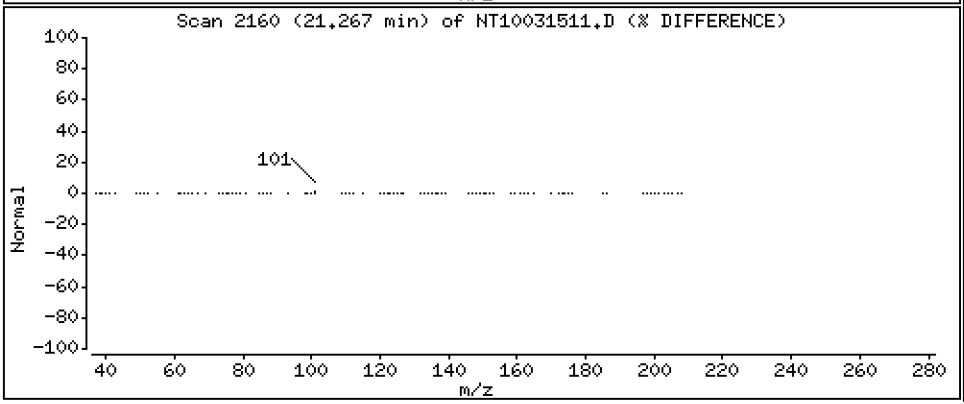












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

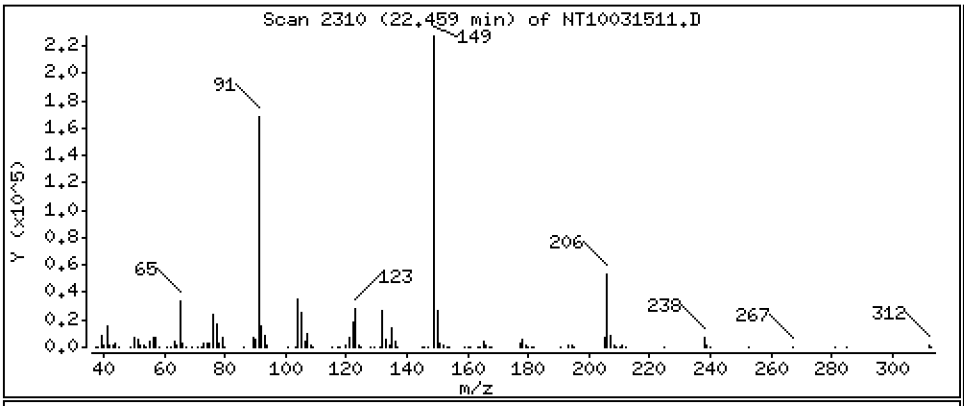
Operator: VTS

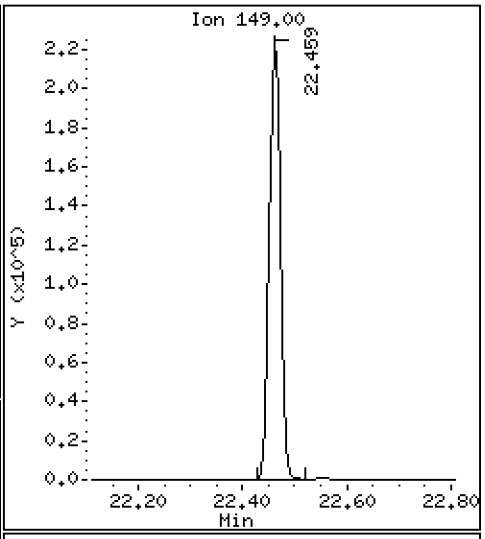
Column phase: ZB-5msi

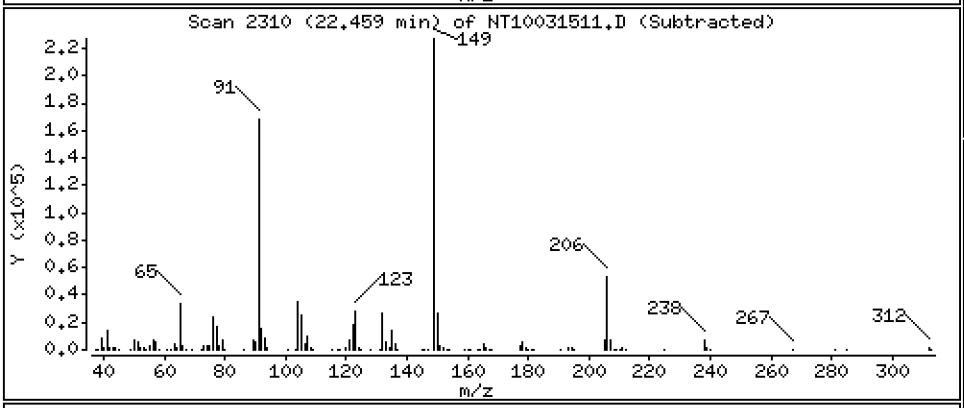
Column diameter: 0.25

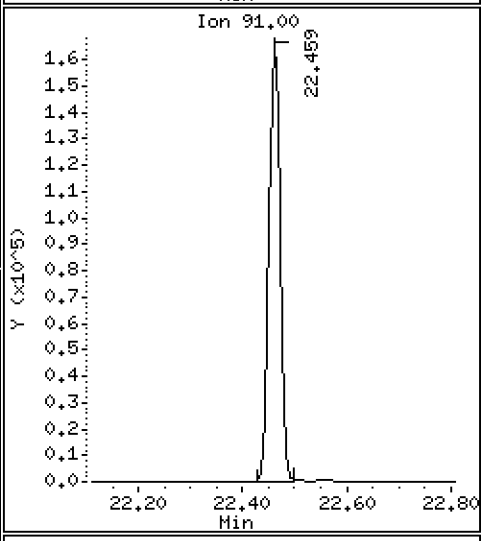
67 Butylbenzylphthalate

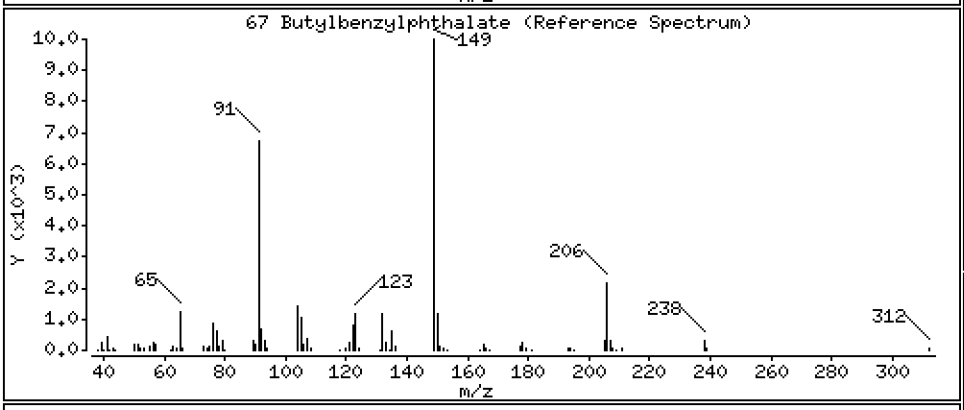
Concentration: 4.834 ug/mL

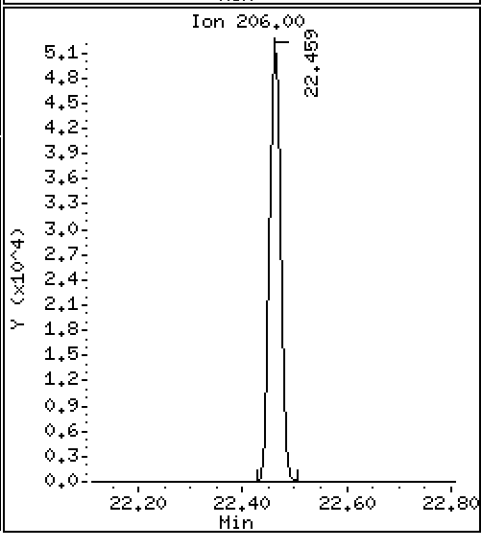


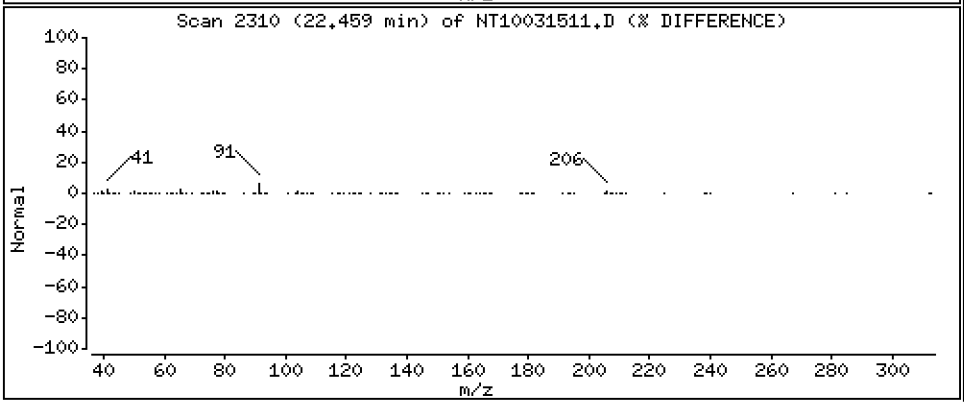












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

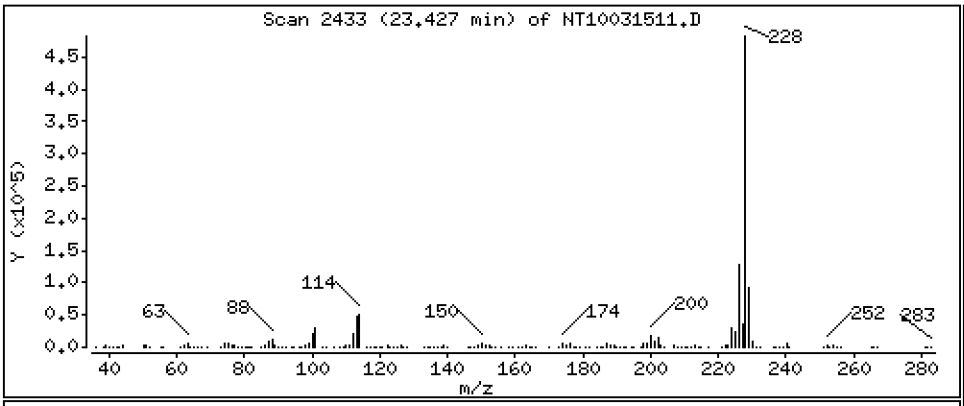
Operator: VTS

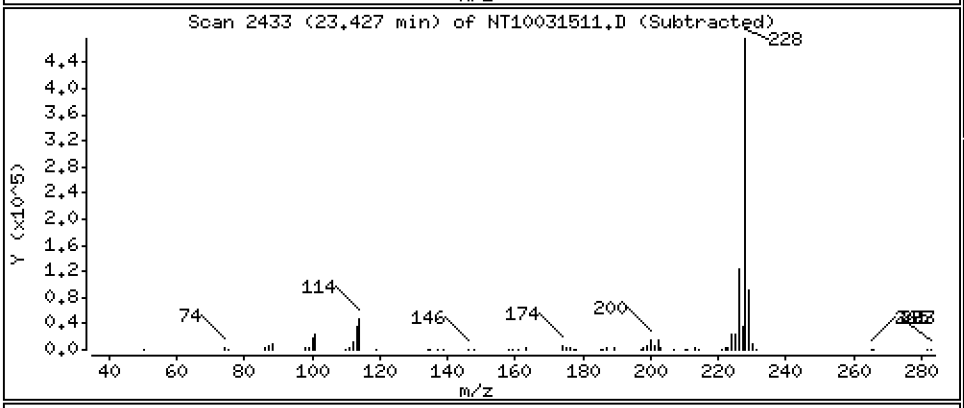
Column phase: ZB-5msi

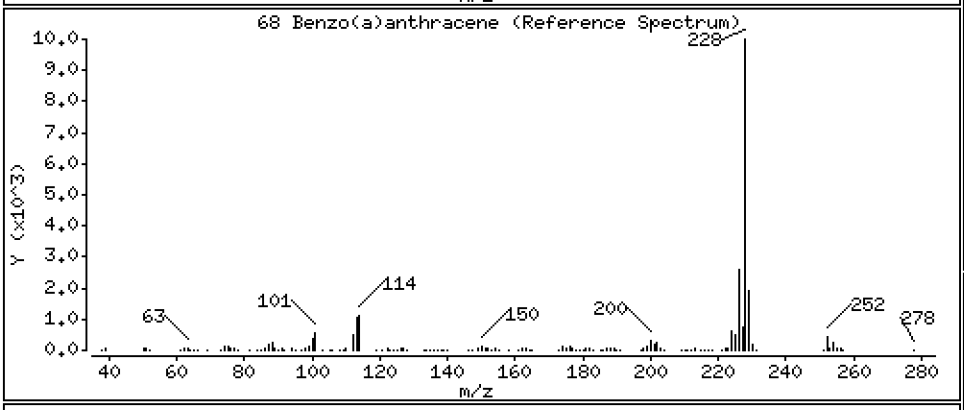
Column diameter: 0.25

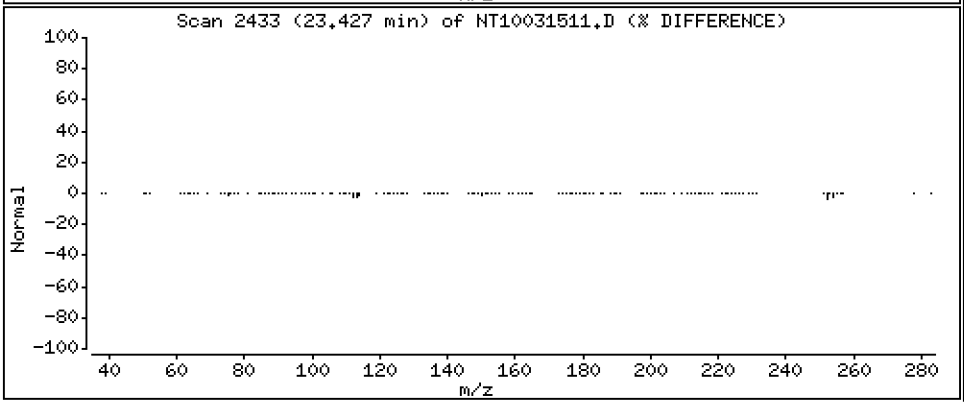
68 Benzo(a)anthracene

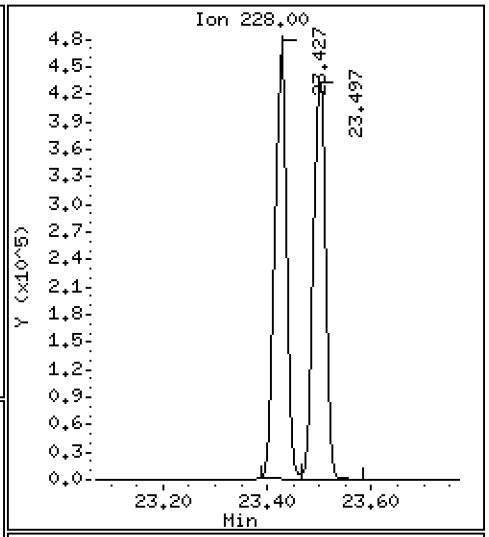
Concentration: 4.647 ug/mL

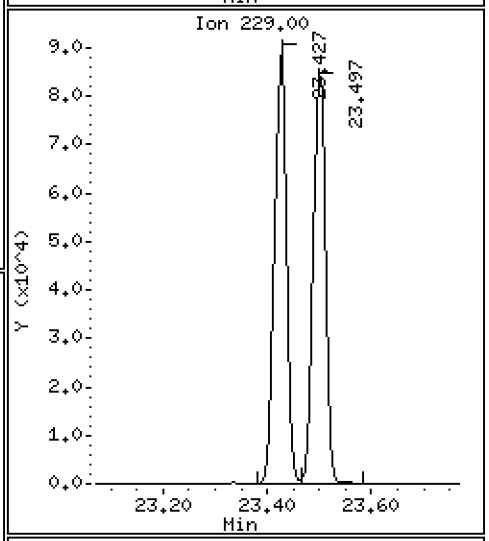


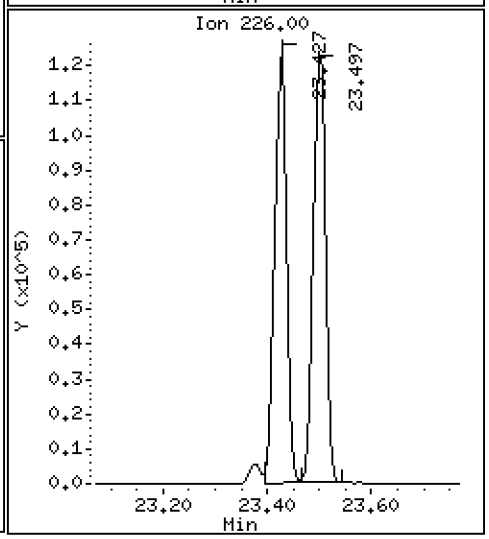












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

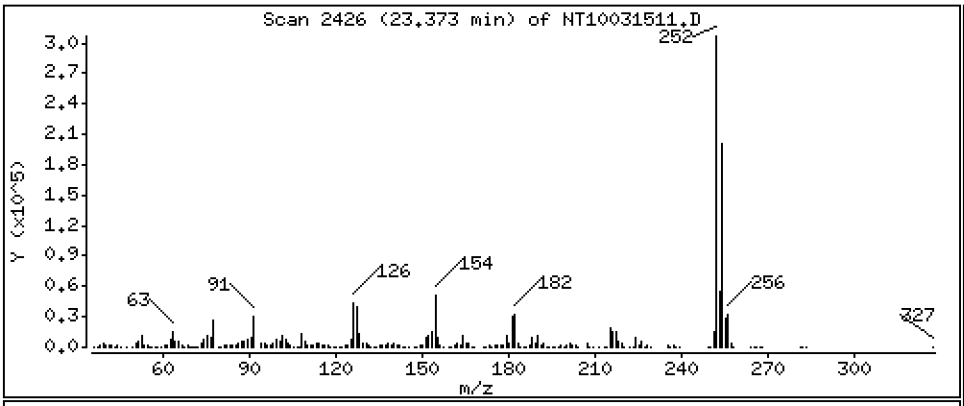
Operator: VTS

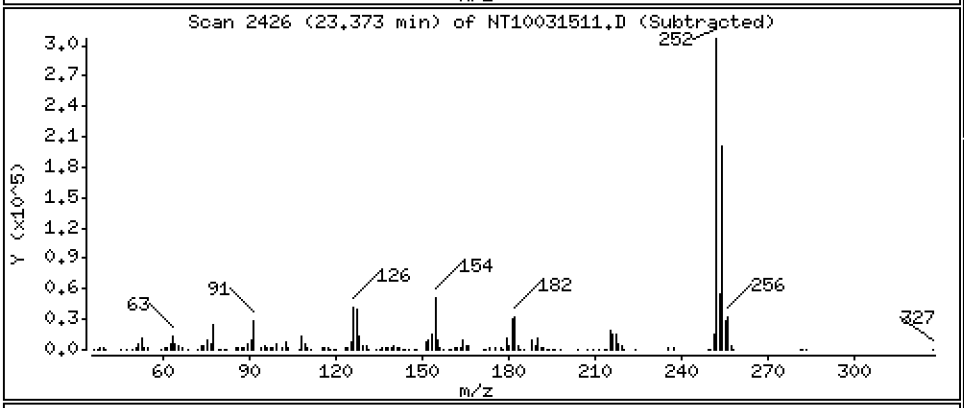
Column phase: ZB-5msi

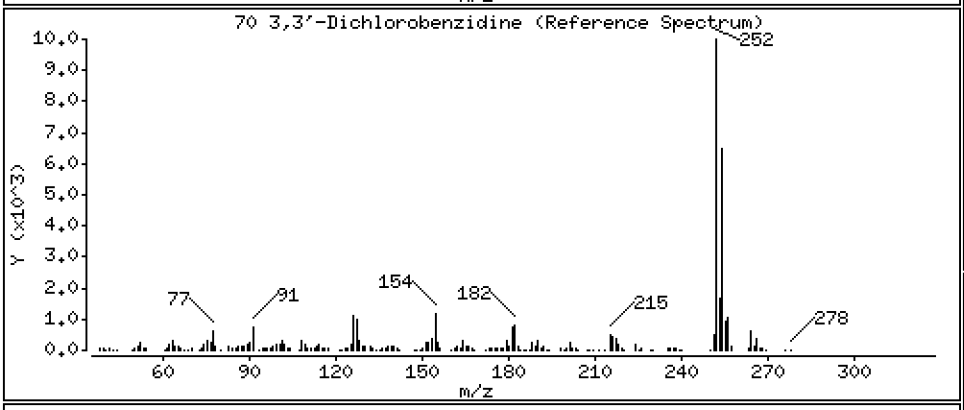
Column diameter: 0.25

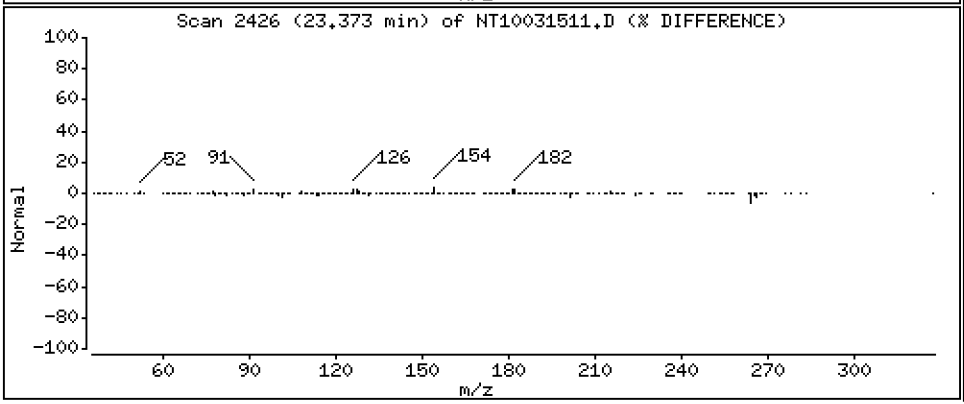
70 3,3'-Dichlorobenzidine

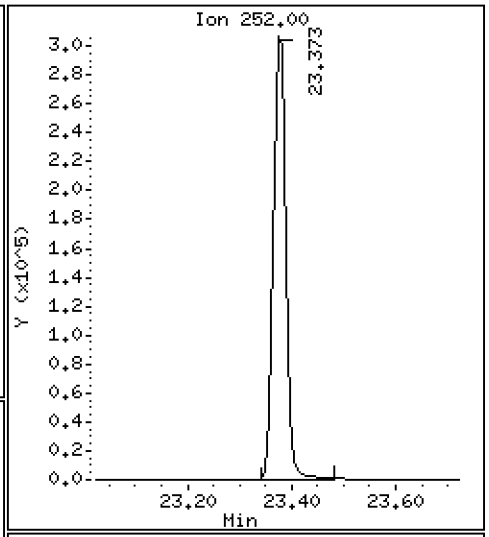
Concentration: 9.817 ug/mL

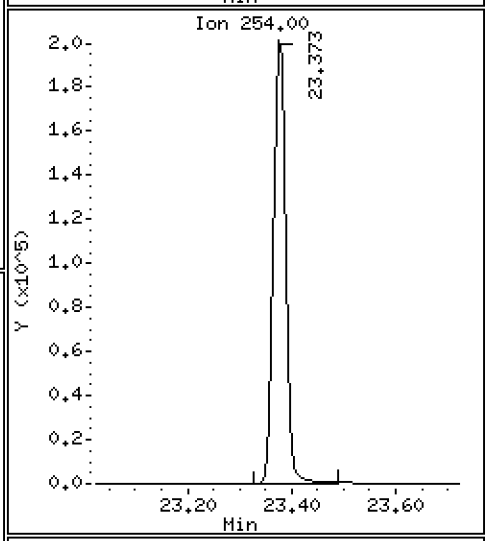


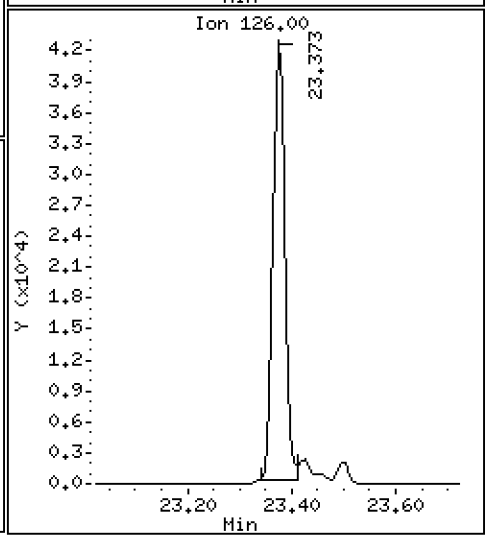












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

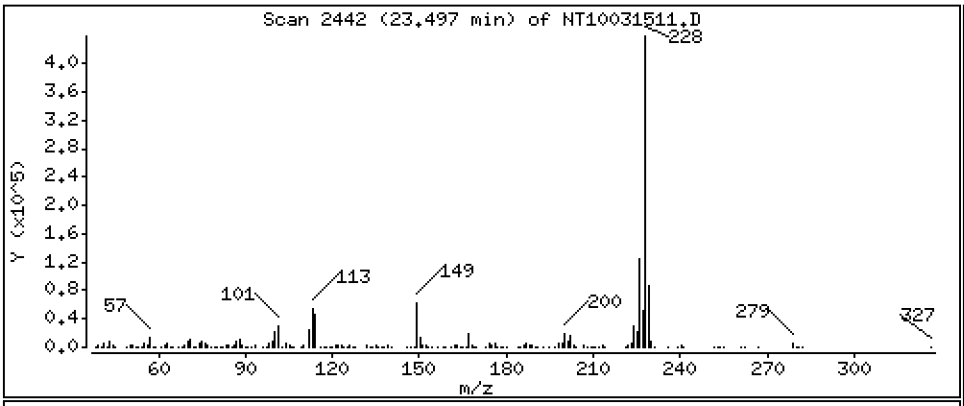
Operator: VTS

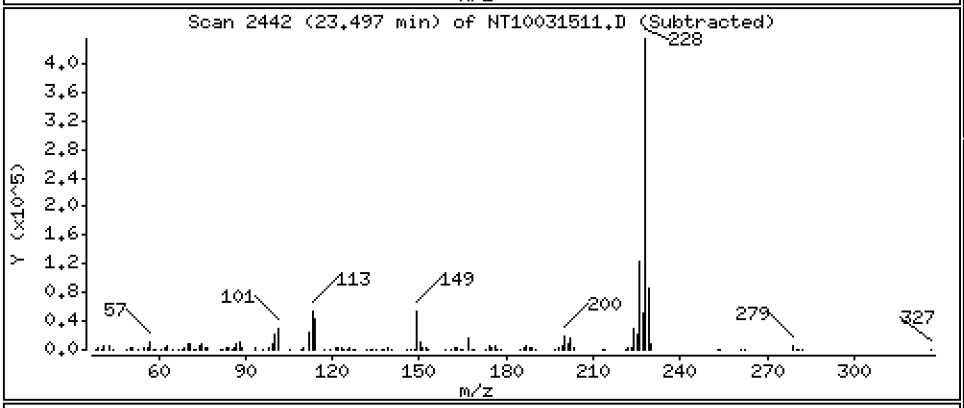
Column phase: ZB-5msi

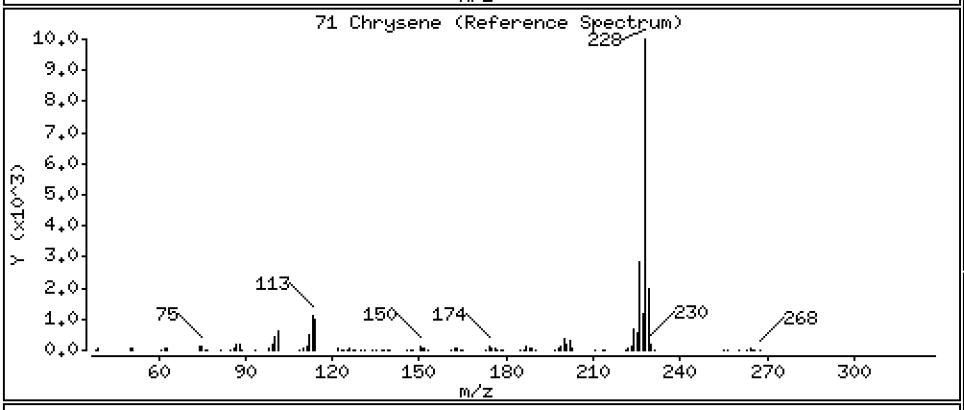
Column diameter: 0.25

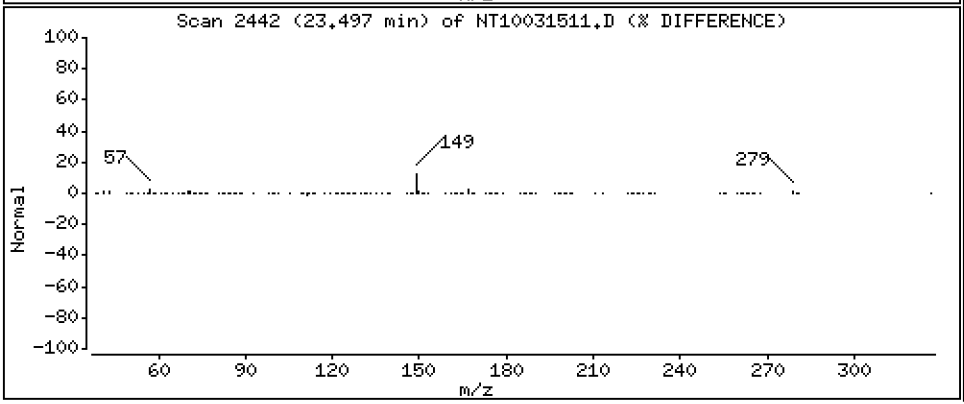
71 Chrysene

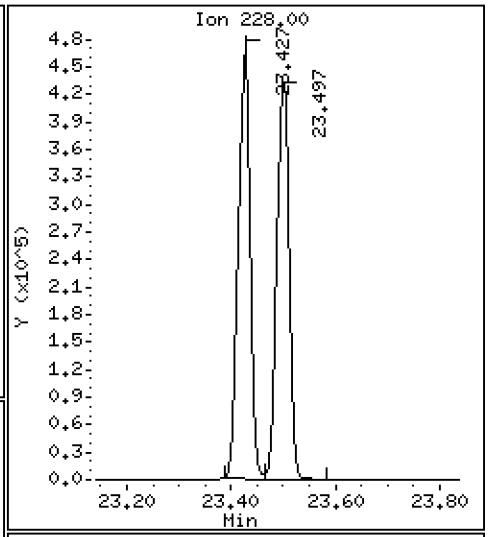
Concentration: 4.510 ug/mL

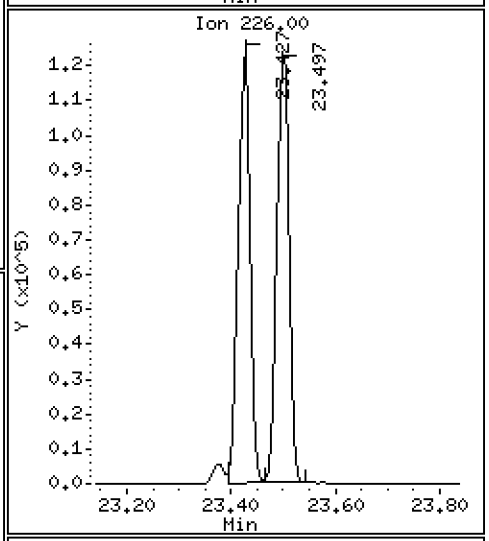


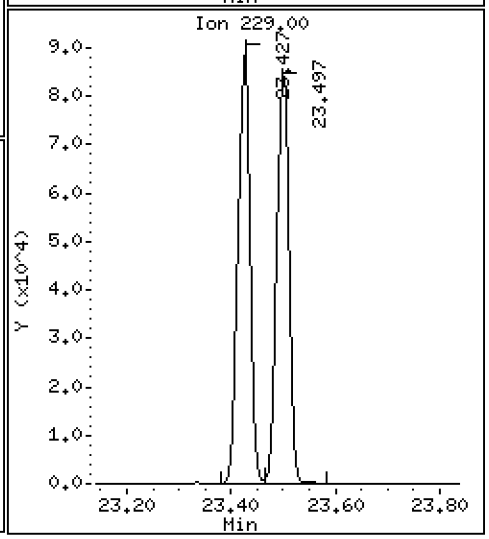












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

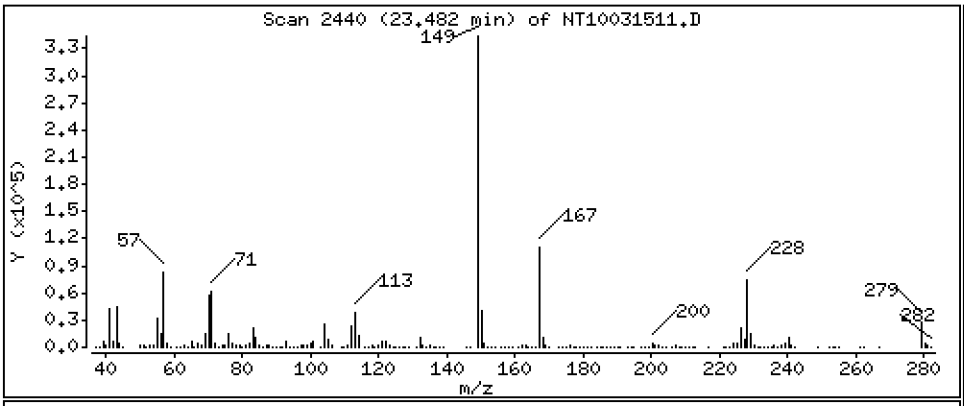
Operator: VTS

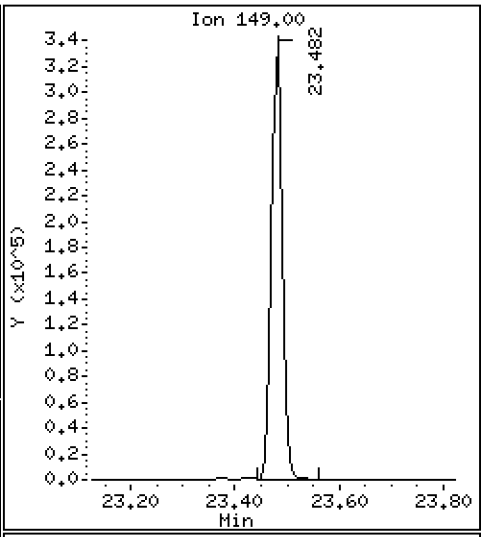
Column phase: ZB-5msi

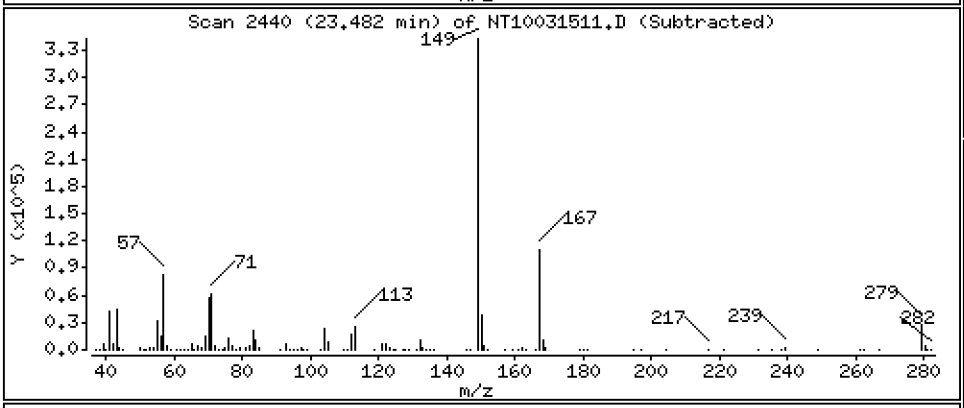
Column diameter: 0.25

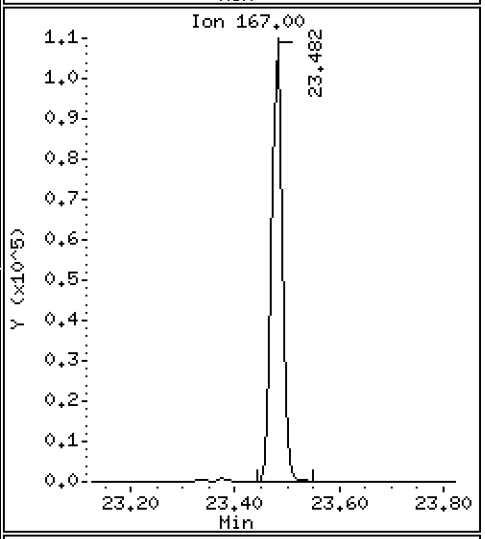
72 bis(2-Ethylhexyl)phthalate

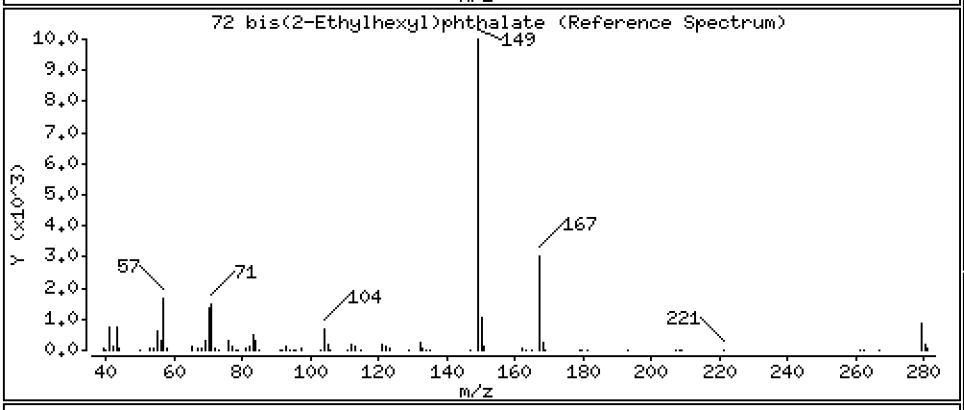
Concentration: 4.680 ug/mL

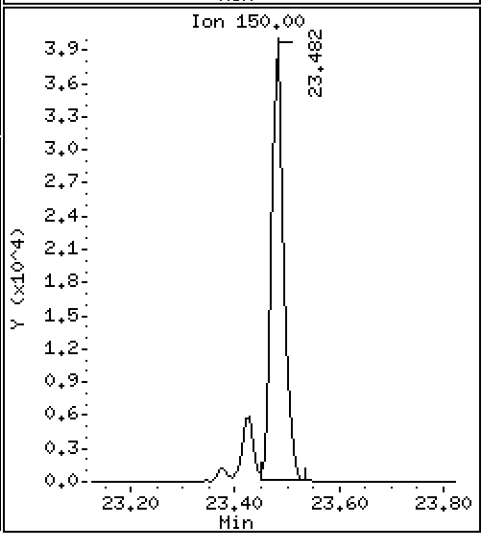


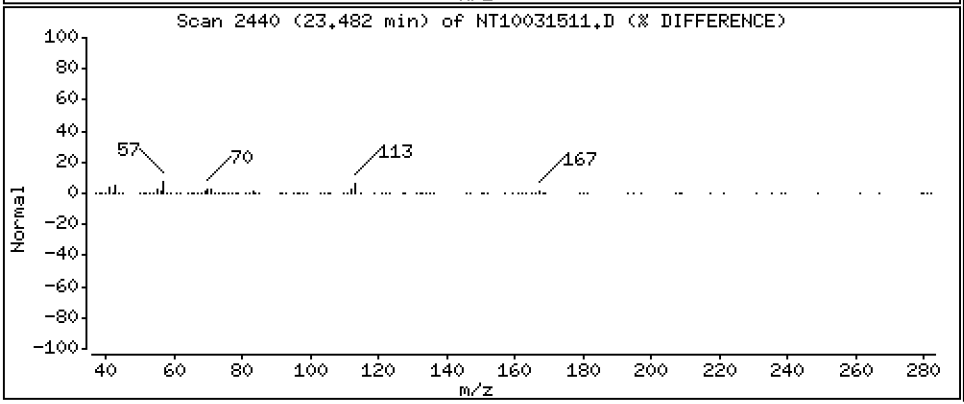












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

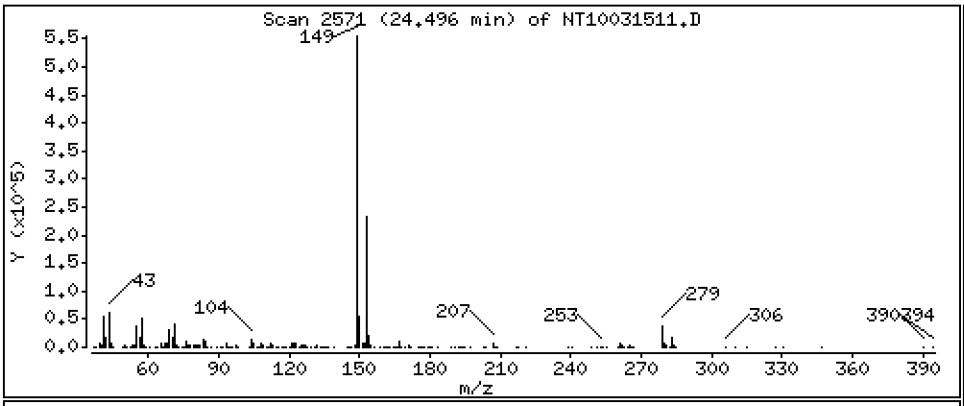
Operator: VTS

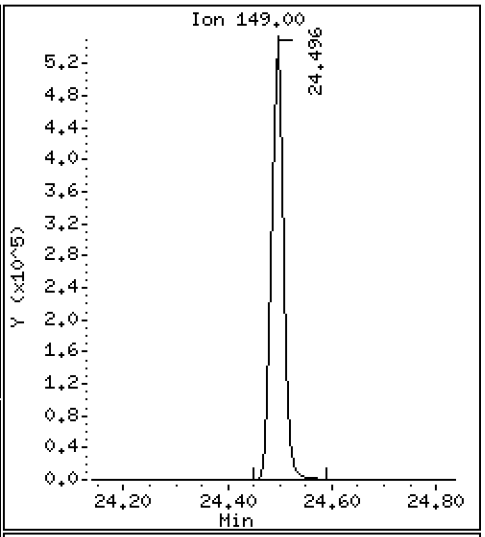
Column phase: ZB-5msi

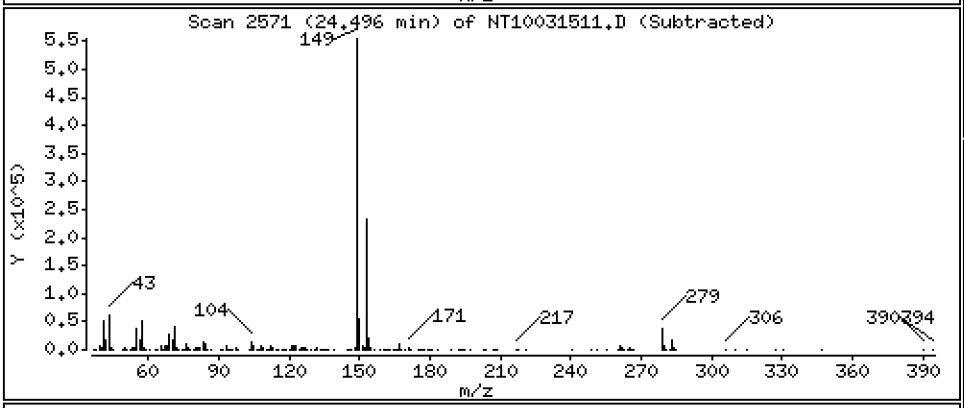
Column diameter: 0.25

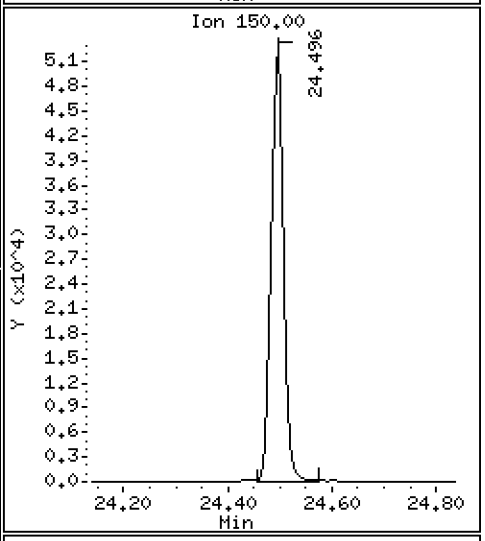
73 Di-n-octylphthalate

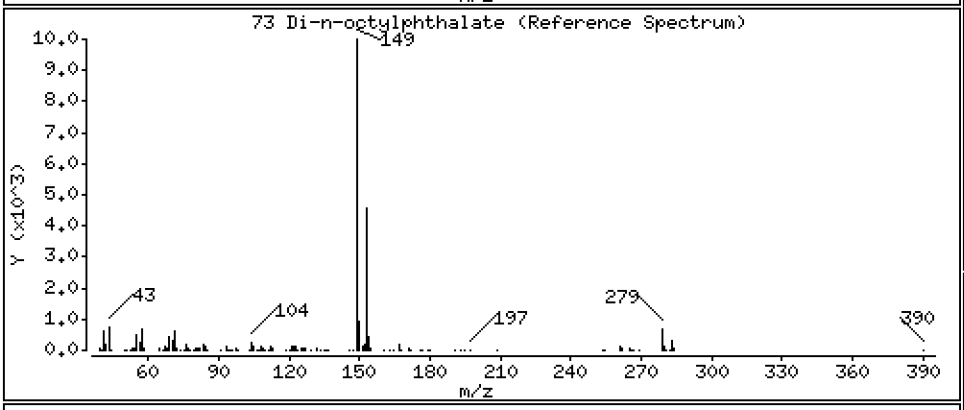
Concentration: 4.947 ug/mL

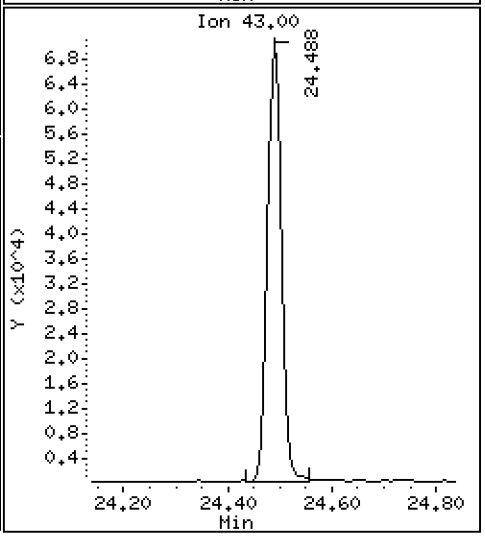


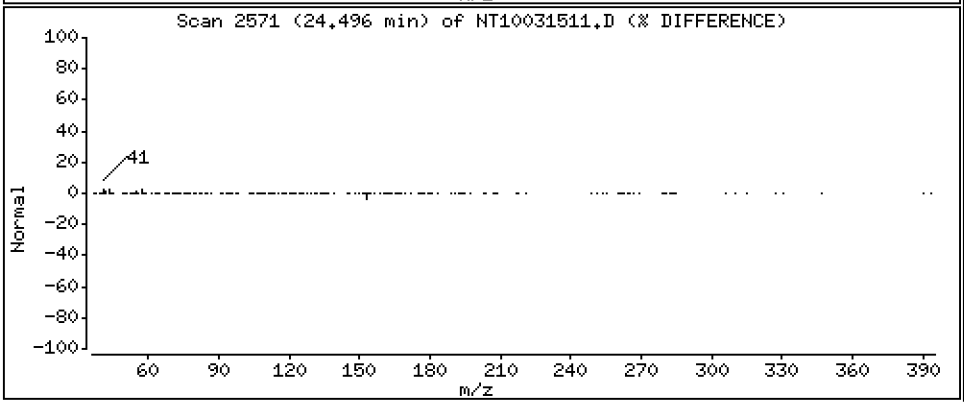












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

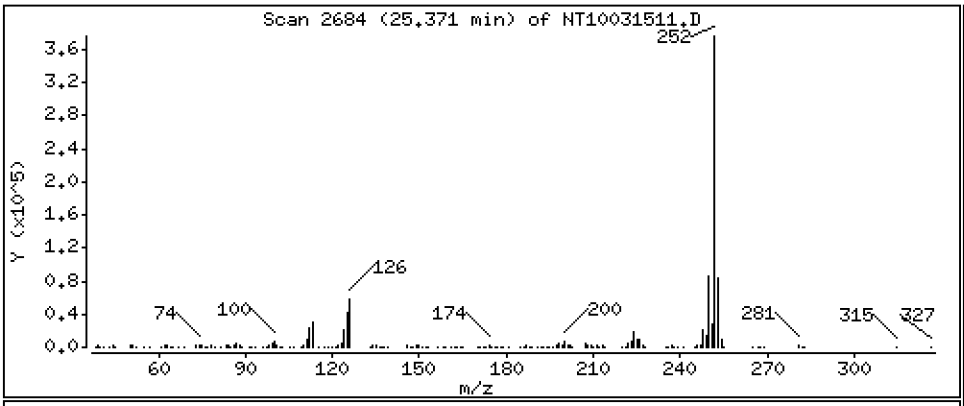
Operator: VTS

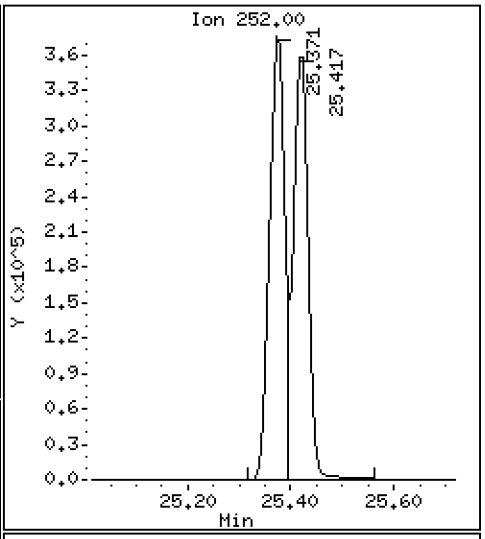
Column phase: ZB-5msi

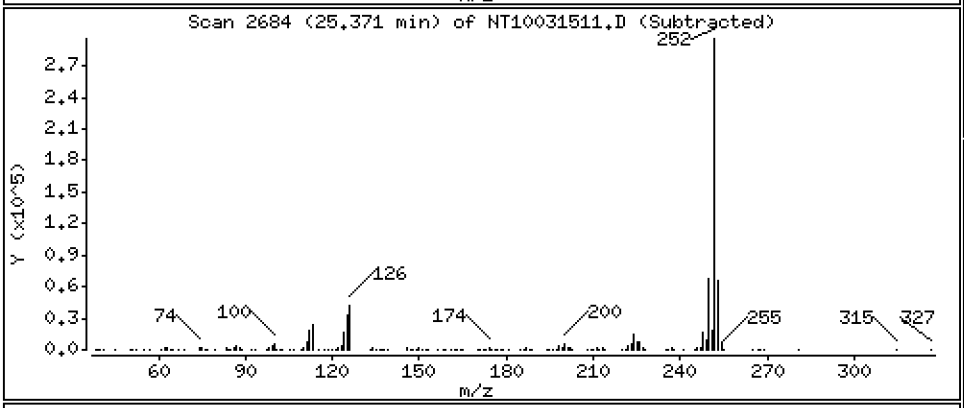
Column diameter: 0.25

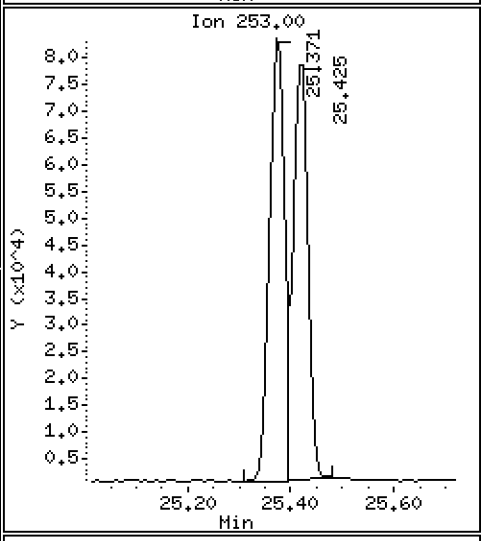
74 Benzo(b)fluoranthene

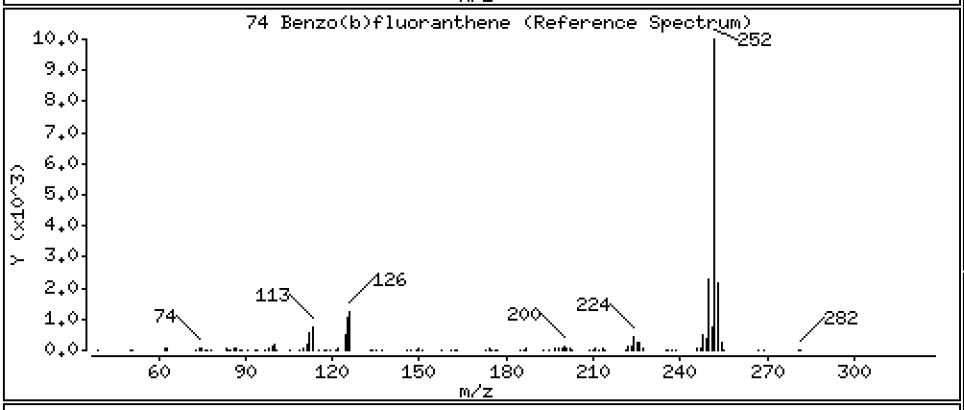
Concentration: 4.602 ug/mL

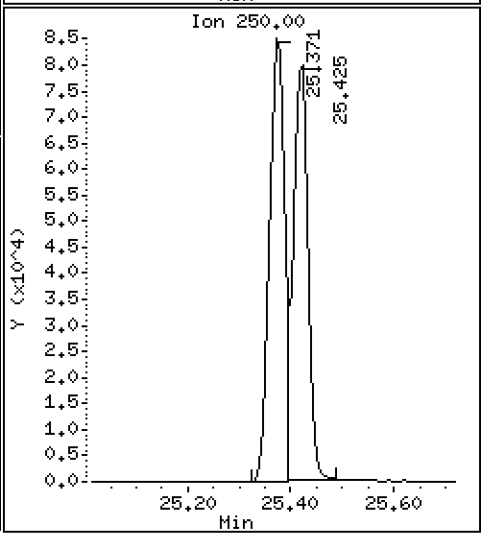


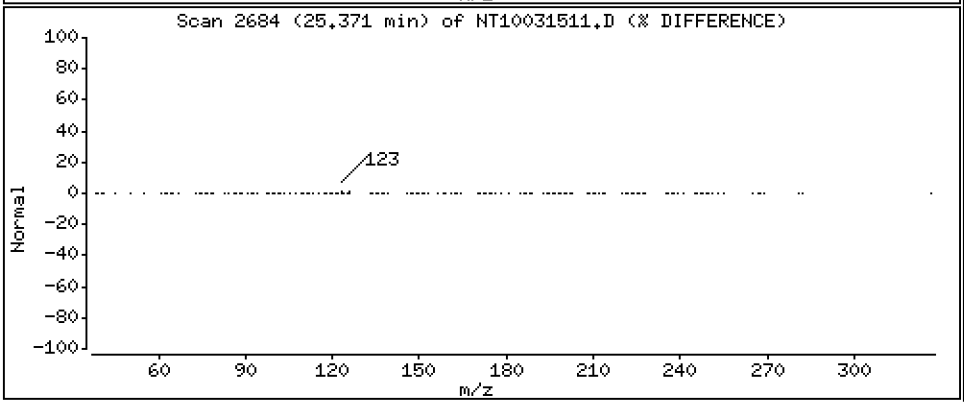












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

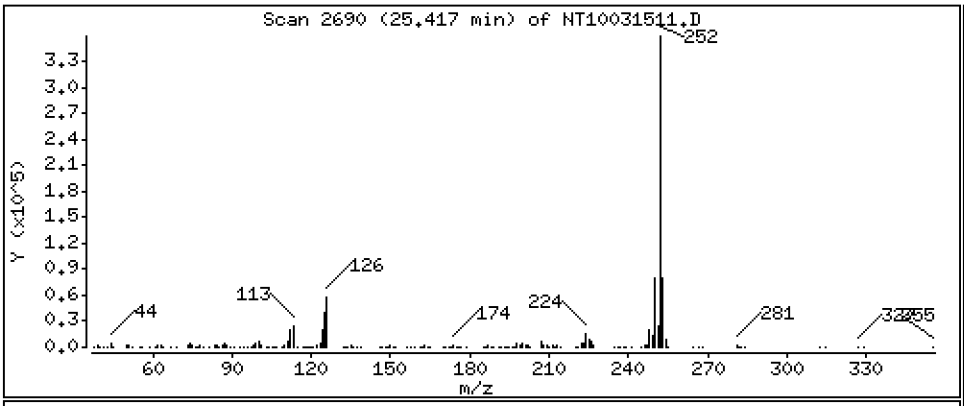
Operator: VTS

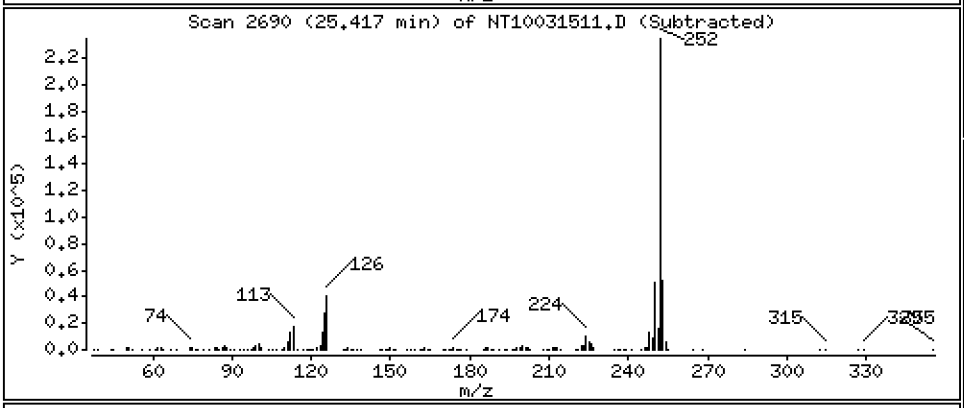
Column phase: ZB-5msi

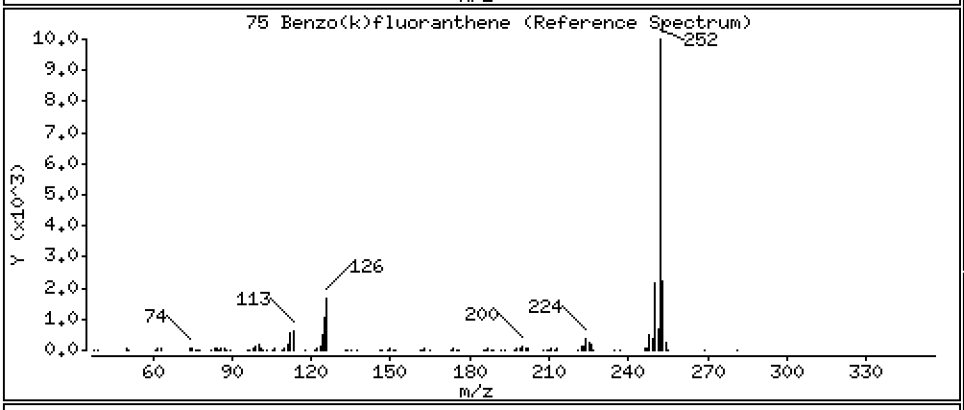
Column diameter: 0.25

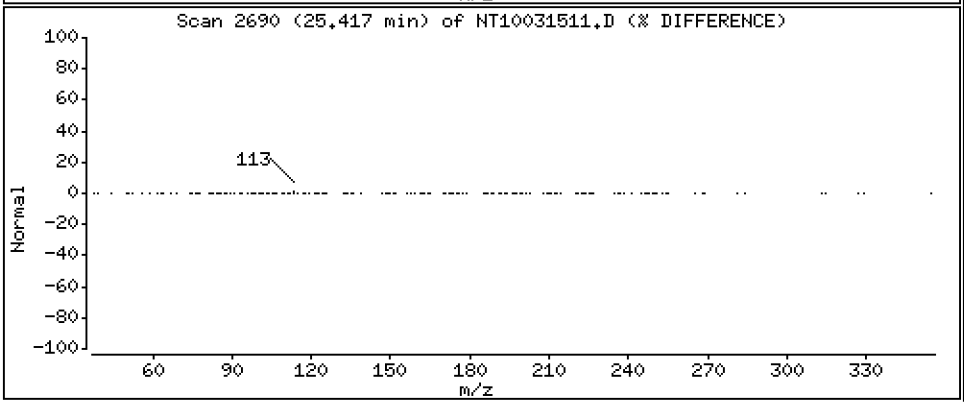
75 Benzo(k)fluoranthene

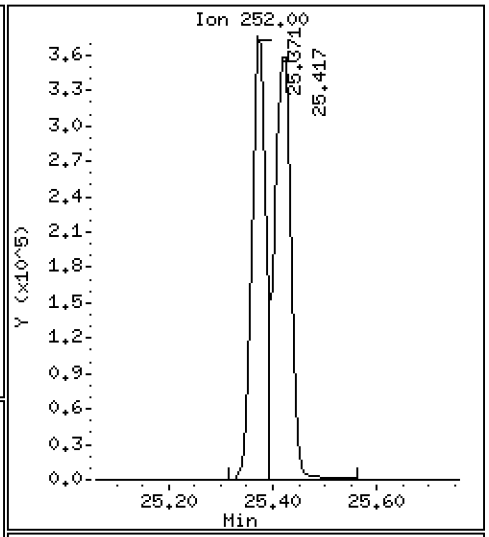
Concentration: 4.898 ug/mL

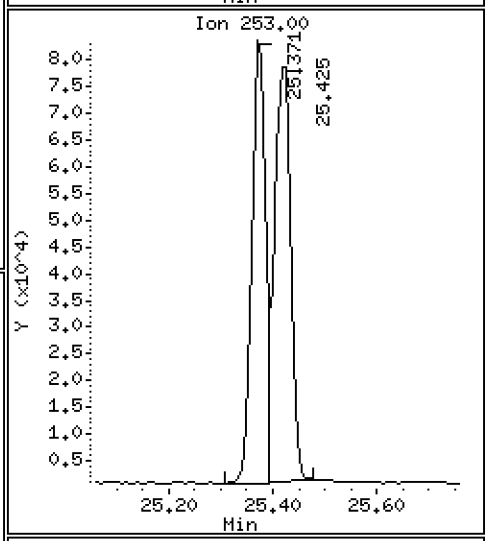


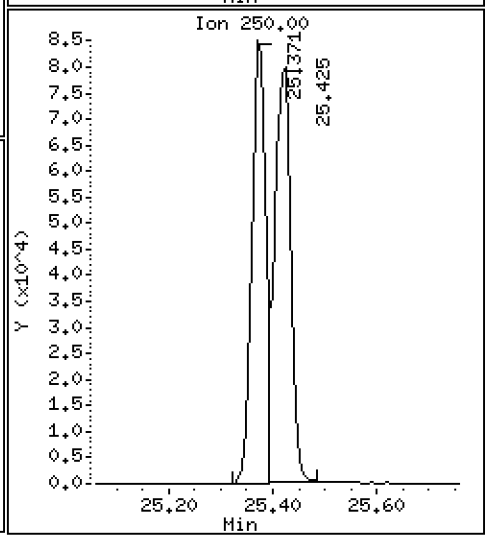












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

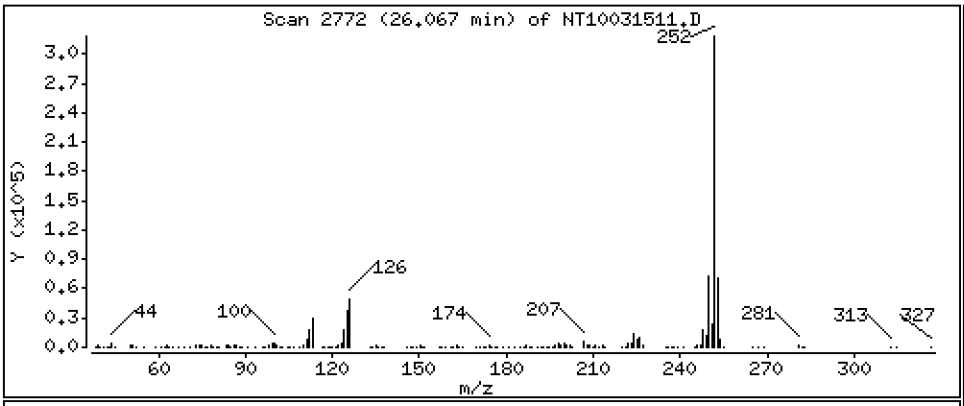
Operator: VTS

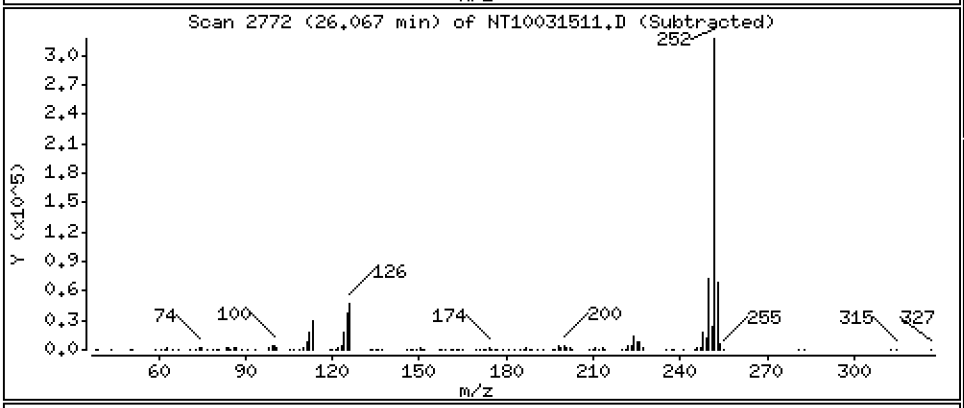
Column phase: ZB-5msi

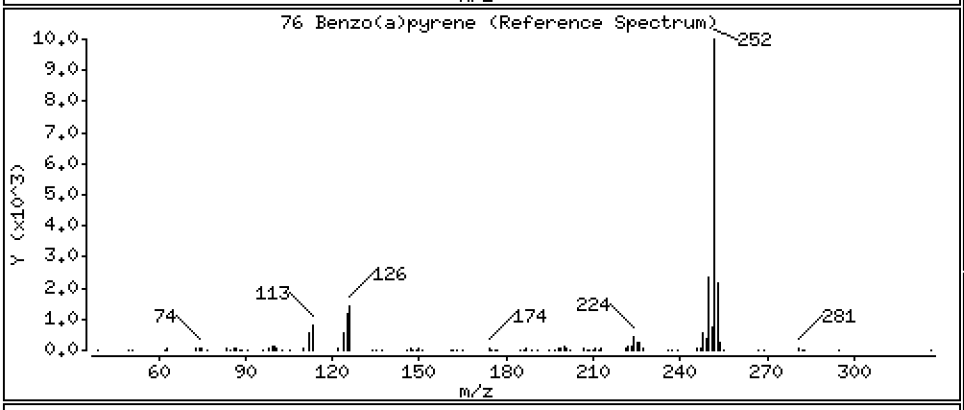
Column diameter: 0.25

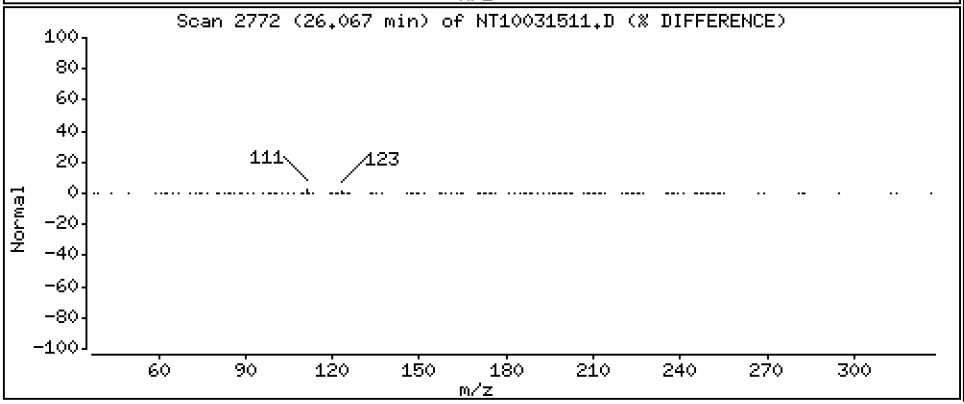
76 Benzo(a)pyrene

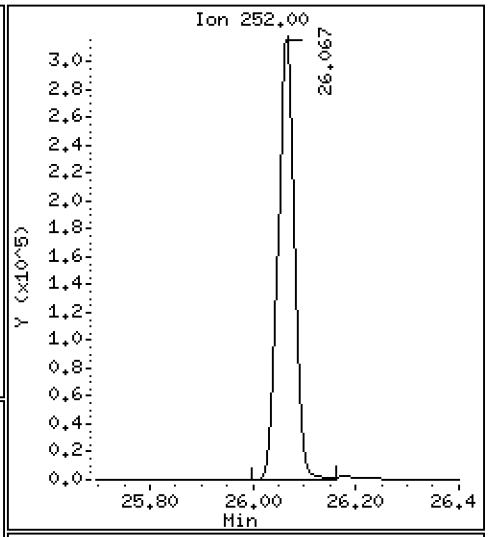
Concentration: 4.873 ug/mL

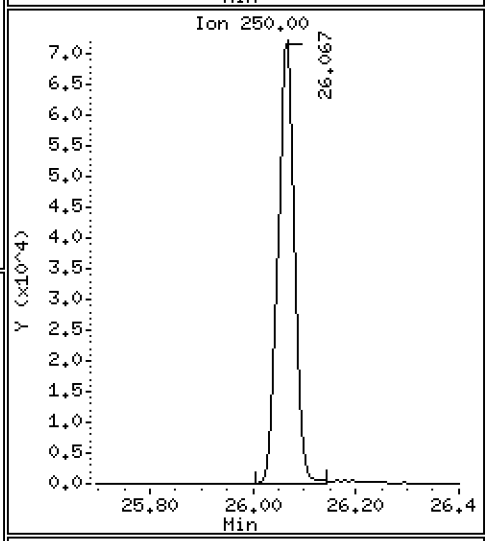


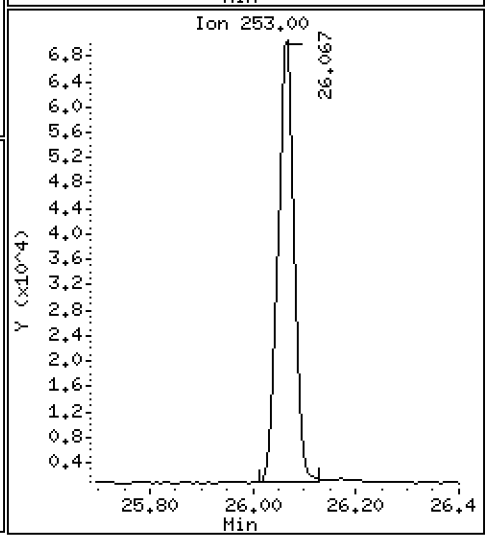












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

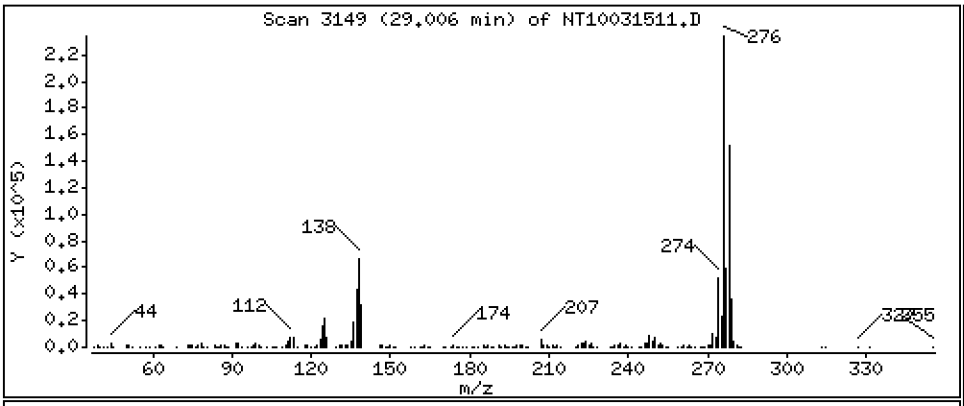
Operator: VTS

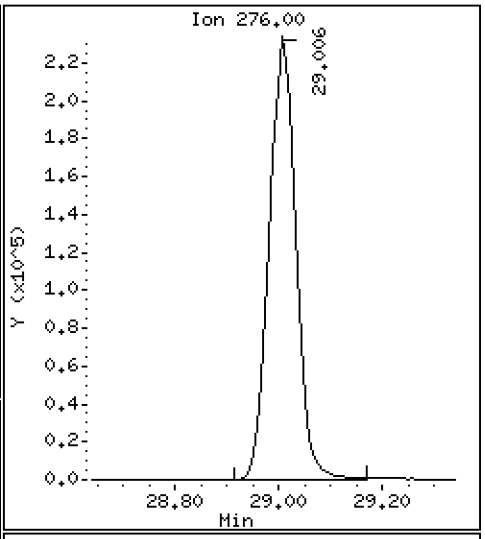
Column phase: ZB-5msi

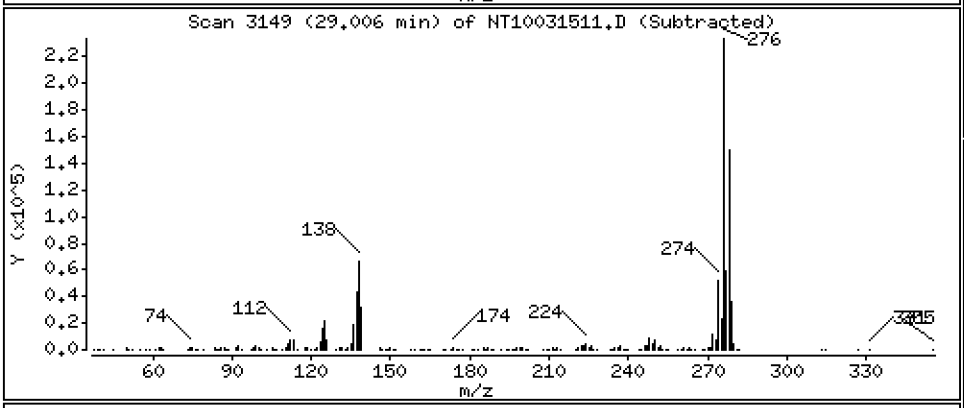
Column diameter: 0.25

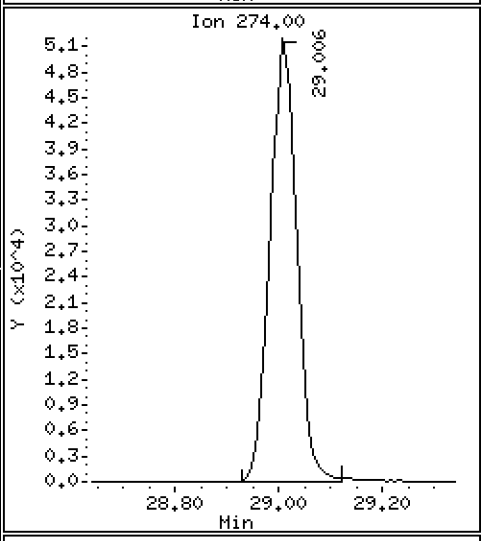
78 Indeno(1,2,3-cd)pyrene

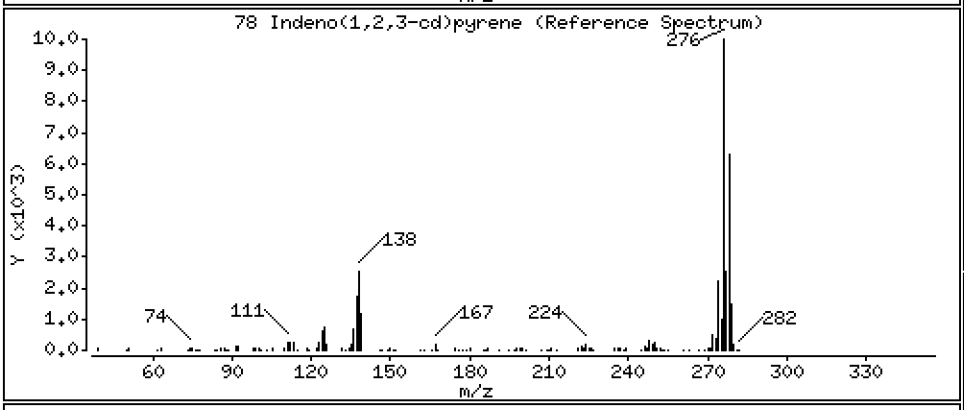
Concentration: 4.577 ug/mL

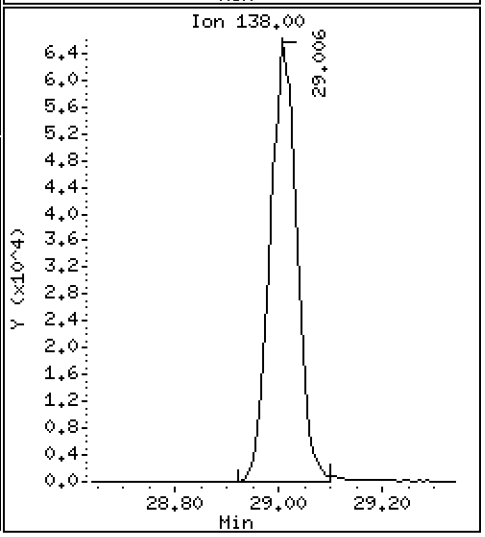


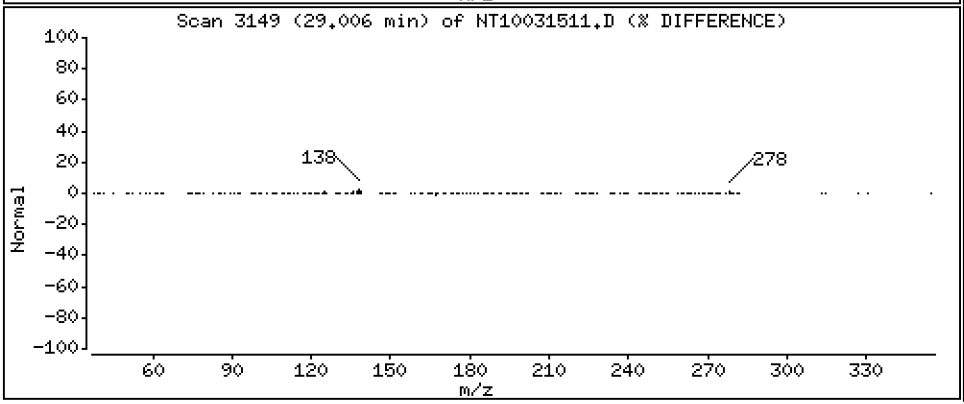












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

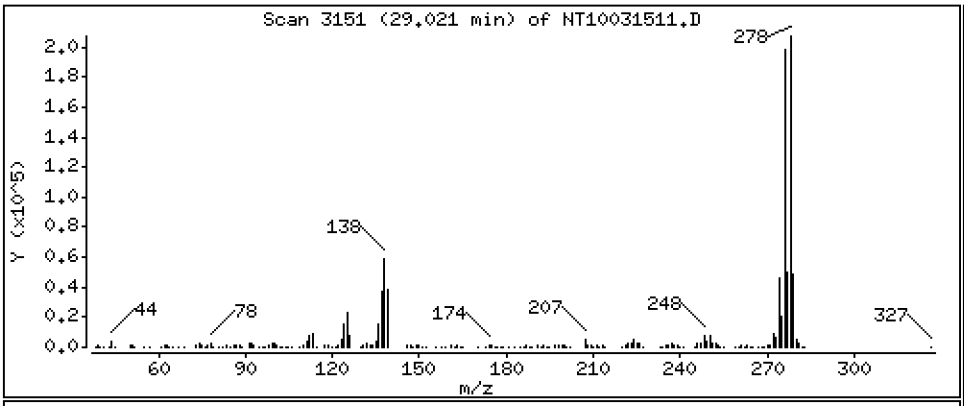
Operator: VTS

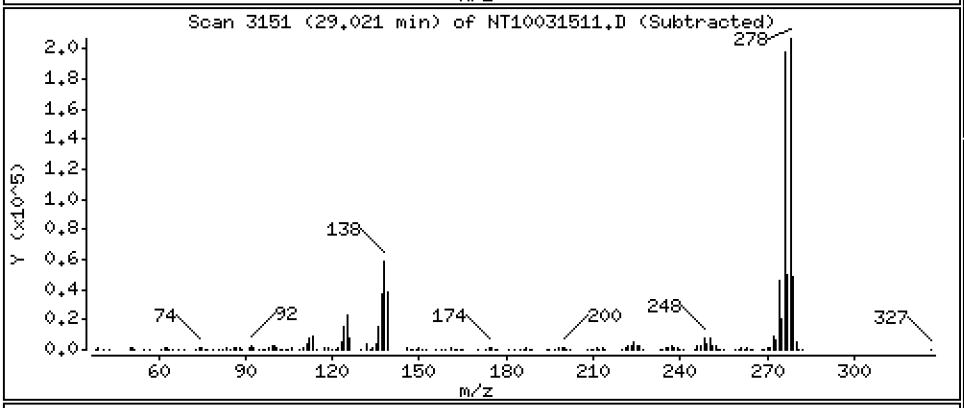
Column phase: ZB-5msi

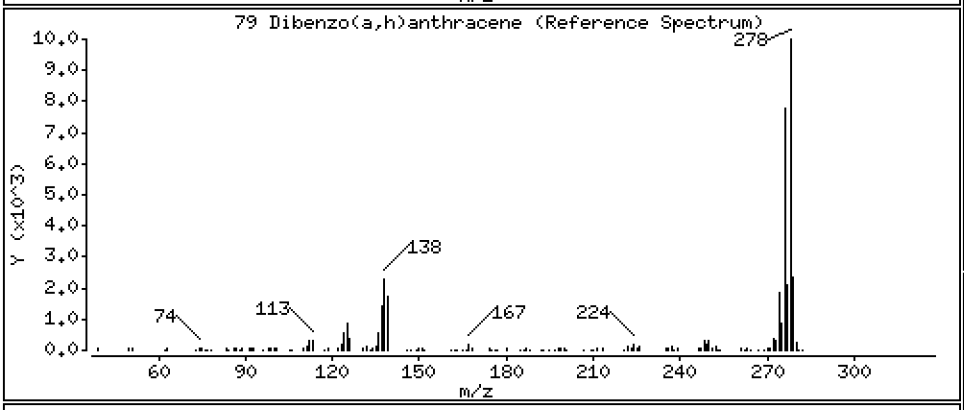
Column diameter: 0.25

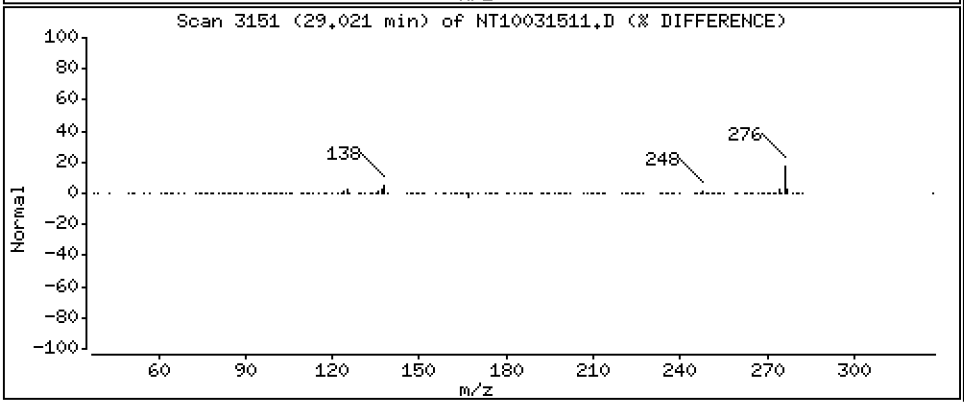
79 Dibenzo(a,h)anthracene

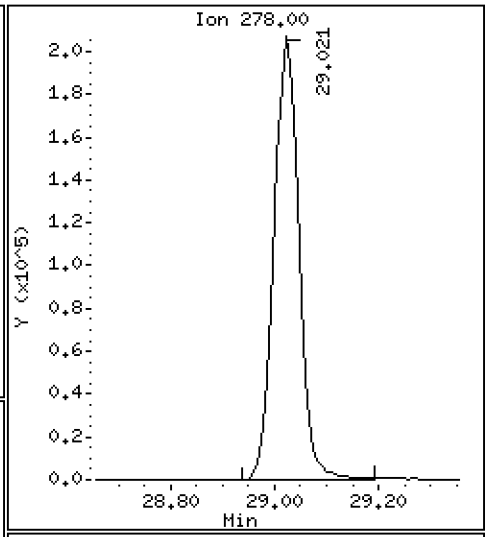
Concentration: 4.547 ug/mL

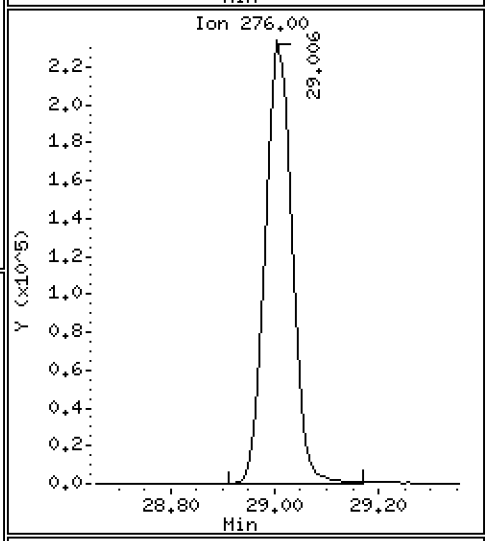


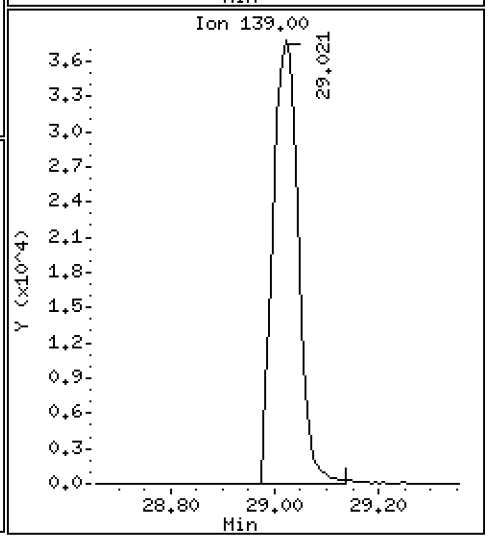












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

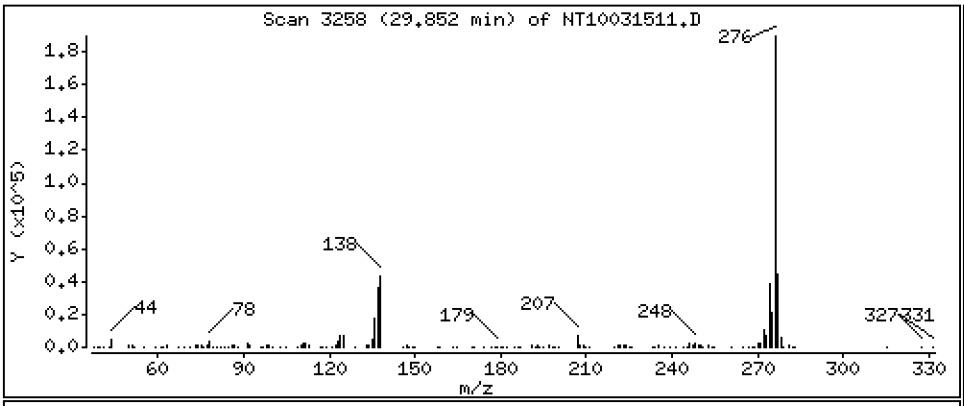
Operator: VTS

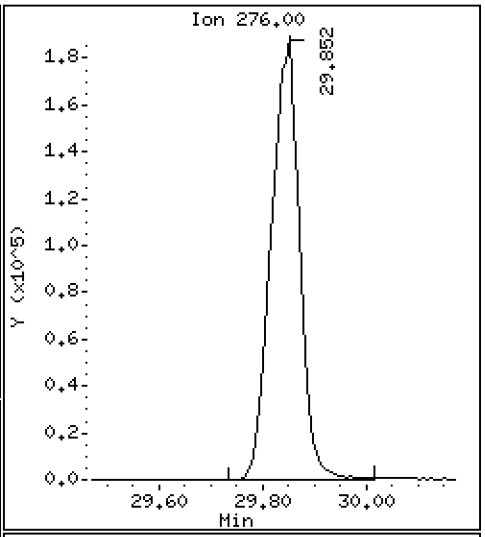
Column phase: ZB-5msi

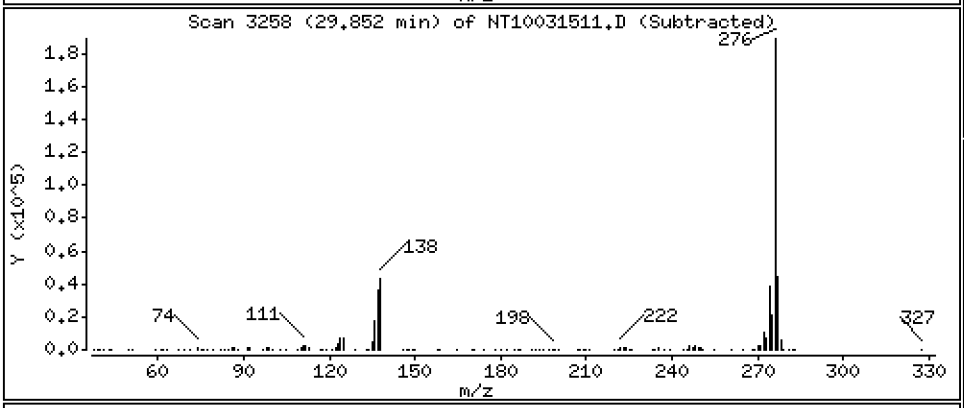
Column diameter: 0.25

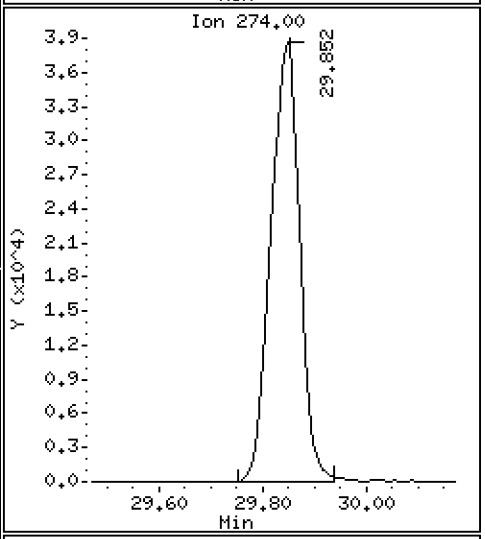
80 Benzo(g,h,i)perylene

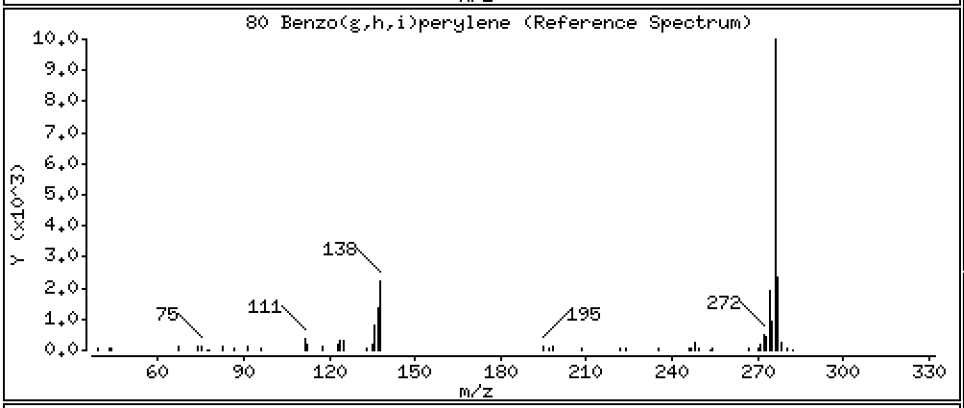
Concentration: 4.590 ug/mL

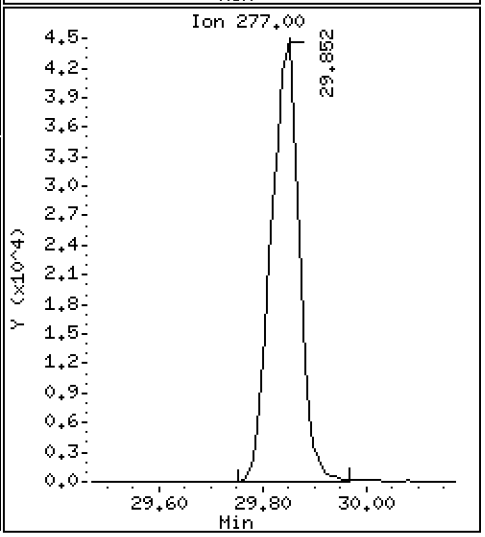


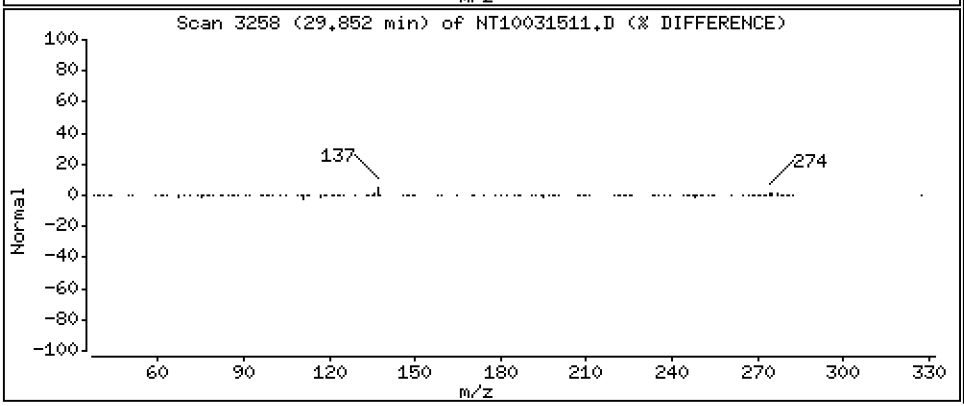












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

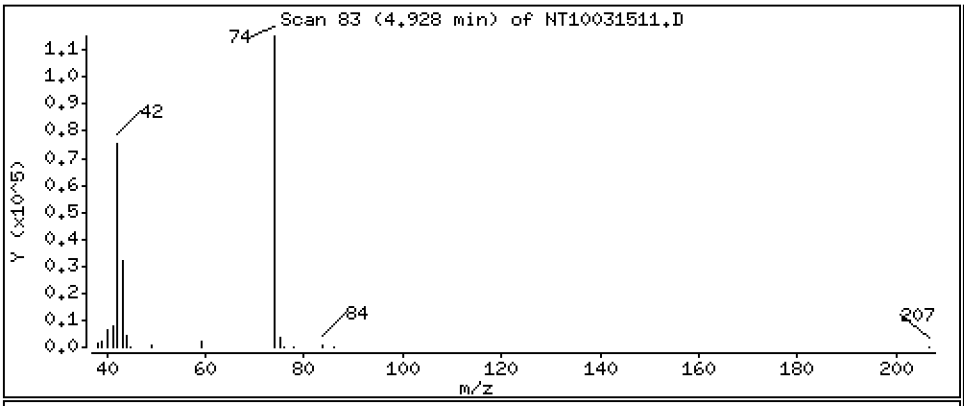
Operator: VTS

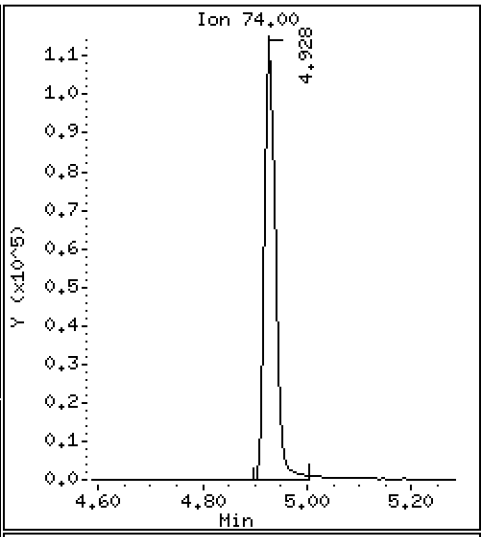
Column phase: ZB-5msi

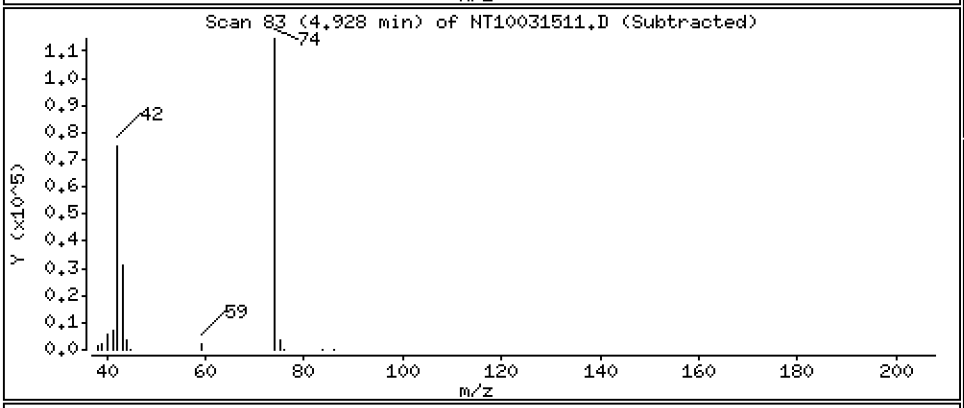
Column diameter: 0.25

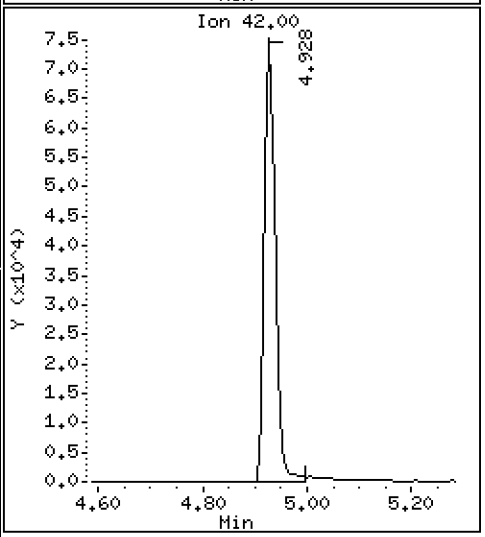
90 N-Nitrosodimethylamine

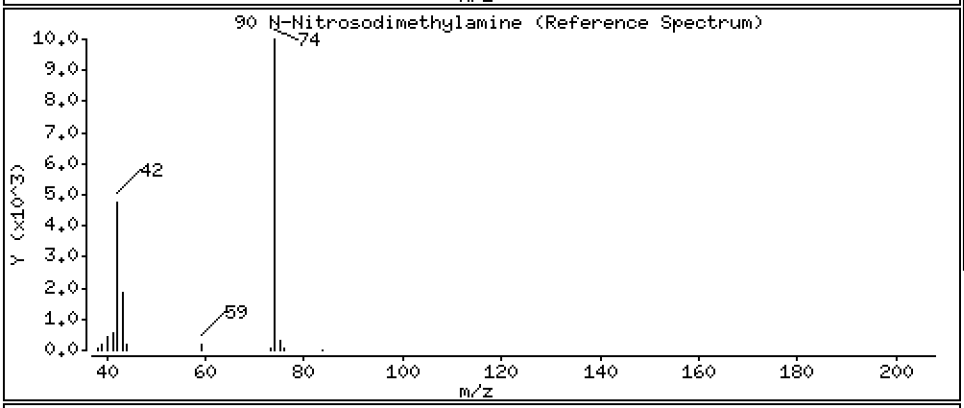
Concentration: 5.194 ug/mL

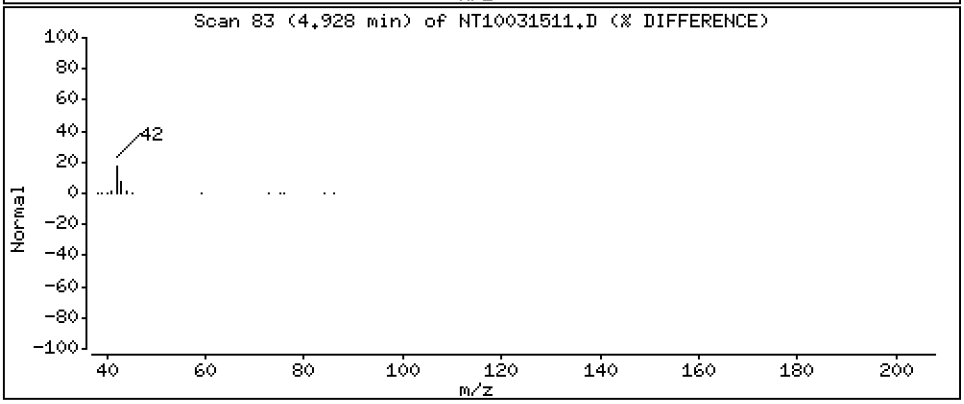












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

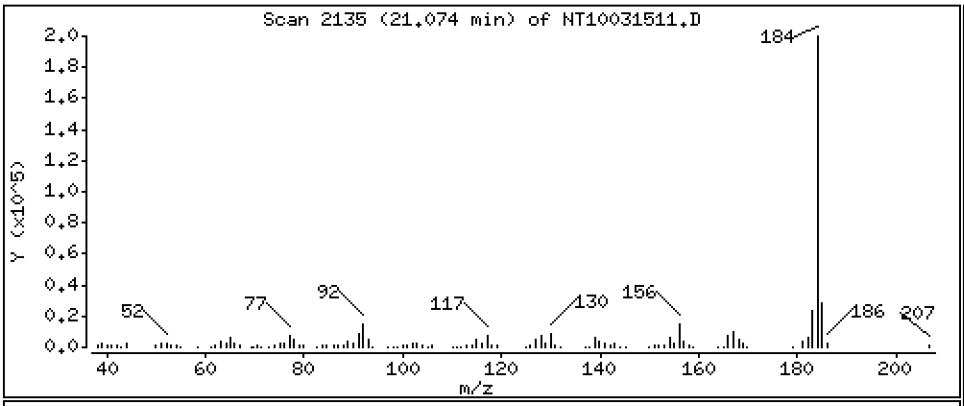
Operator: VTS

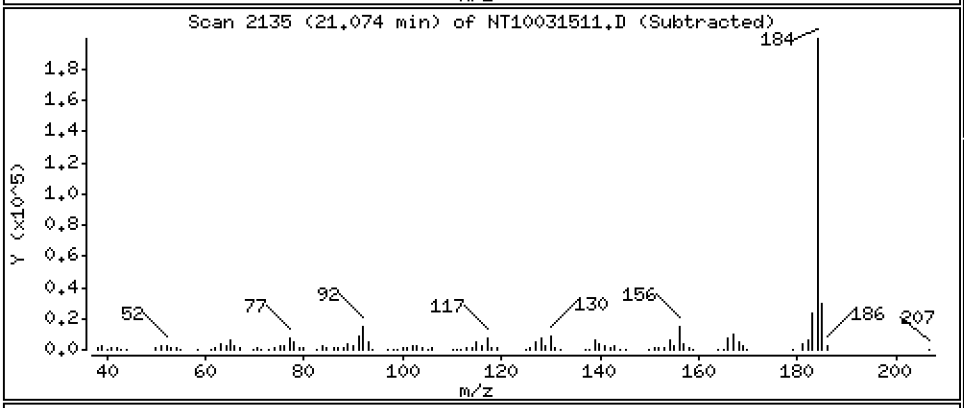
Column phase: ZB-5msi

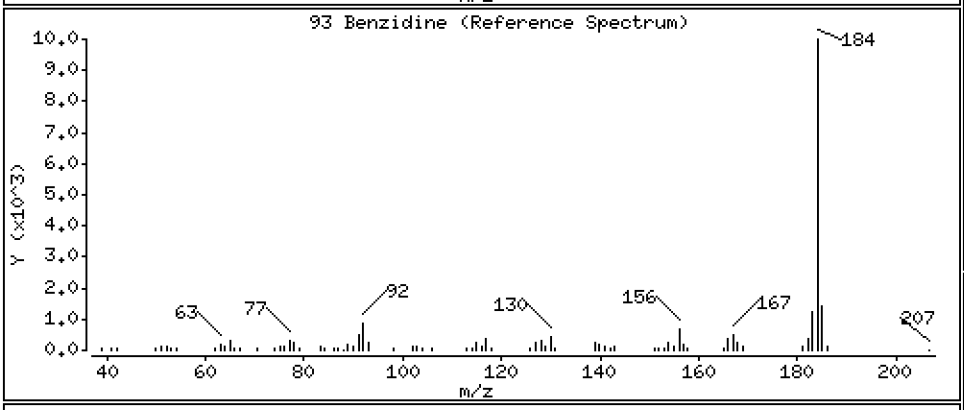
Column diameter: 0.25

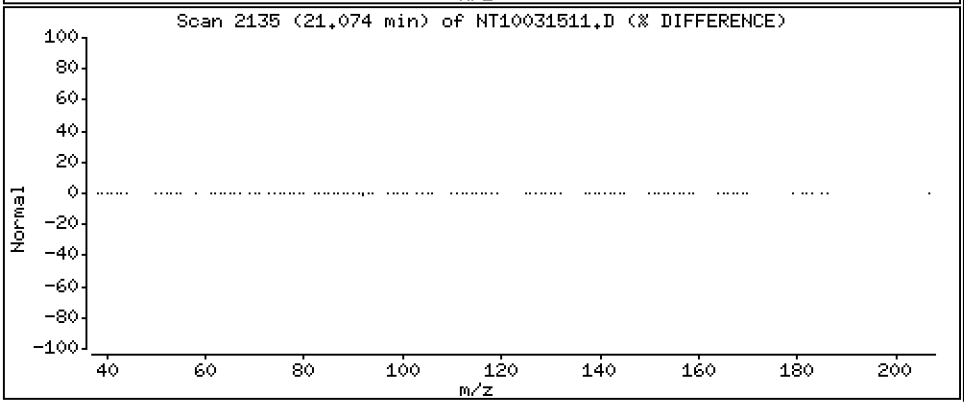
93 Benzidine

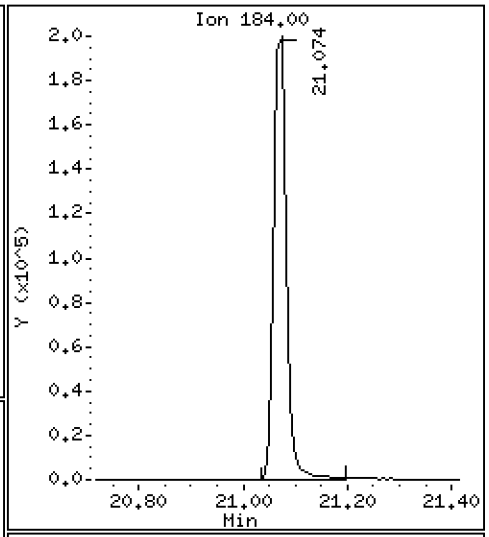
Concentration: 4.380 ug/mL

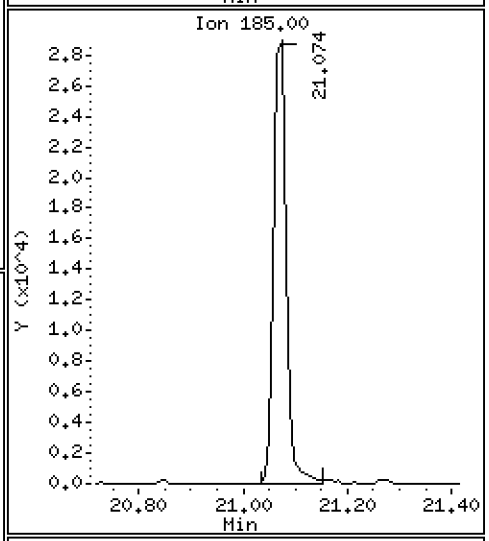


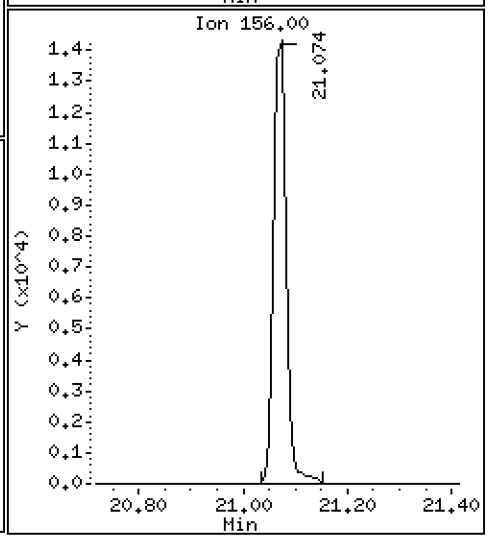












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

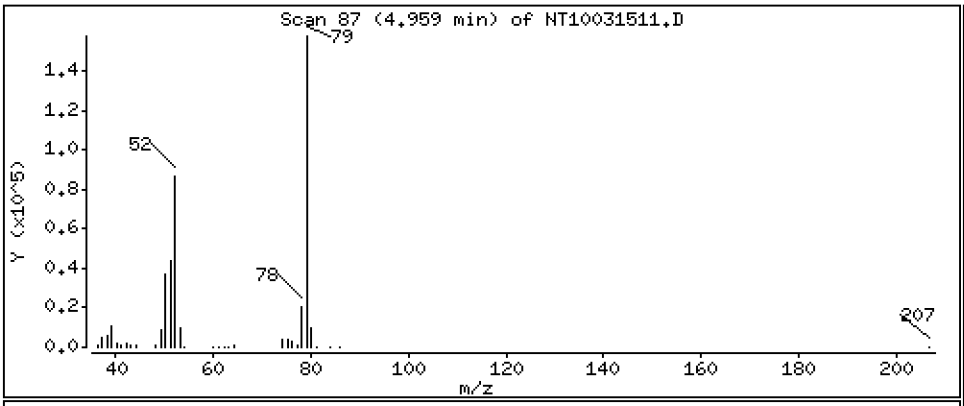
Operator: VTS

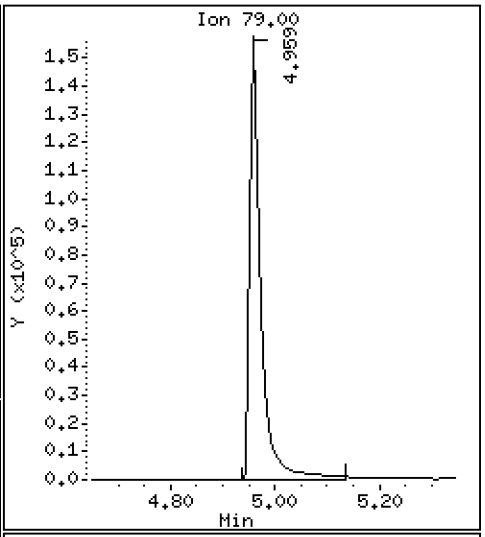
Column phase: ZB-5msi

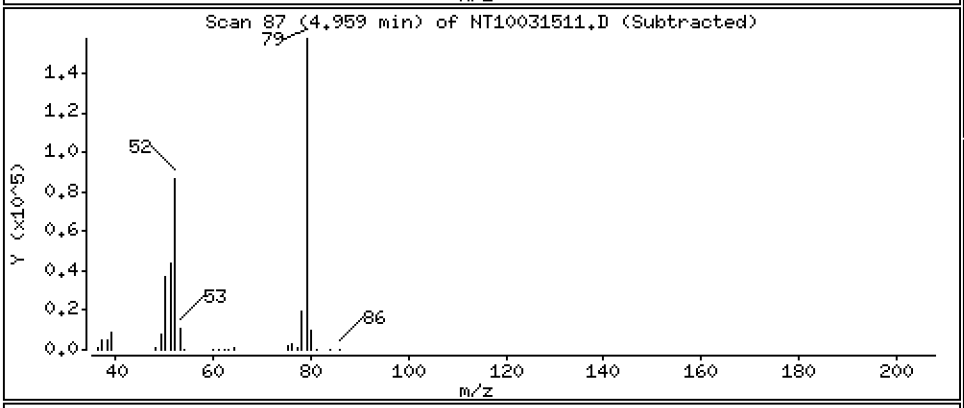
Column diameter: 0.25

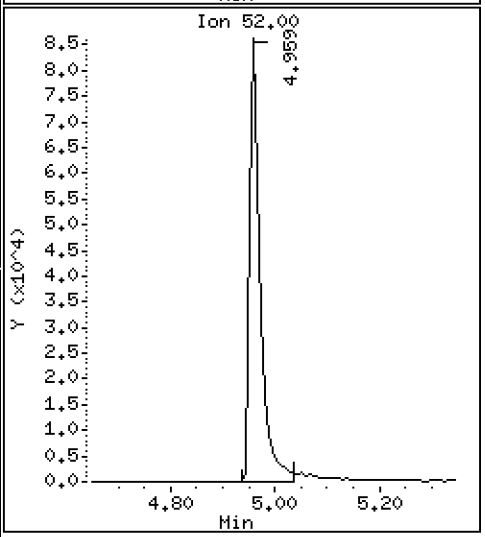
103 Pyridine

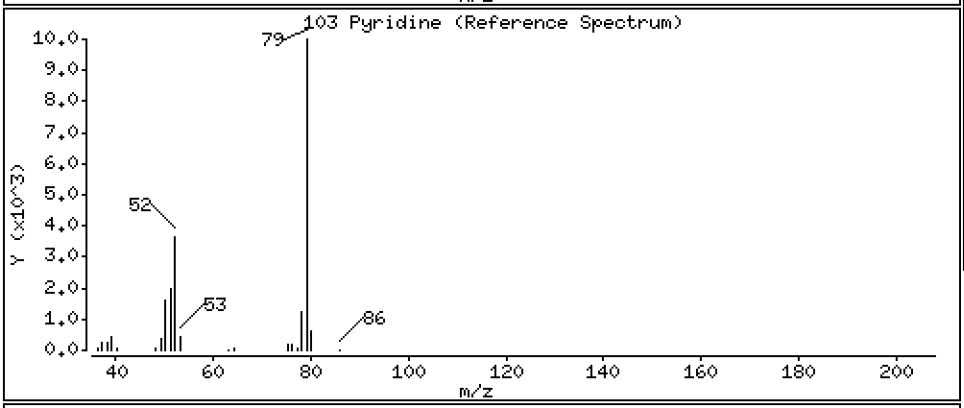
Concentration: 5.337 ug/mL

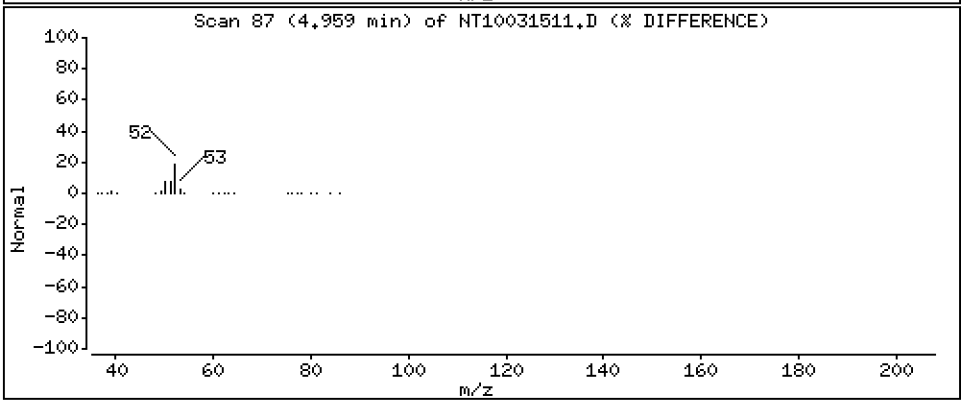












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

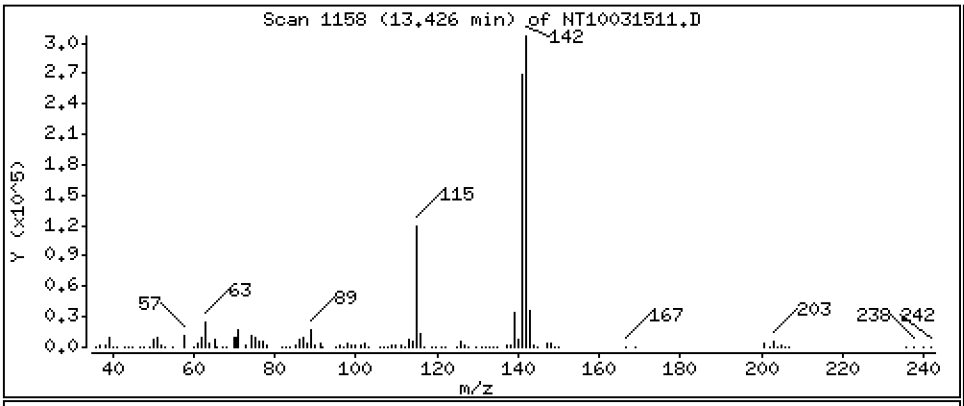
Operator: VTS

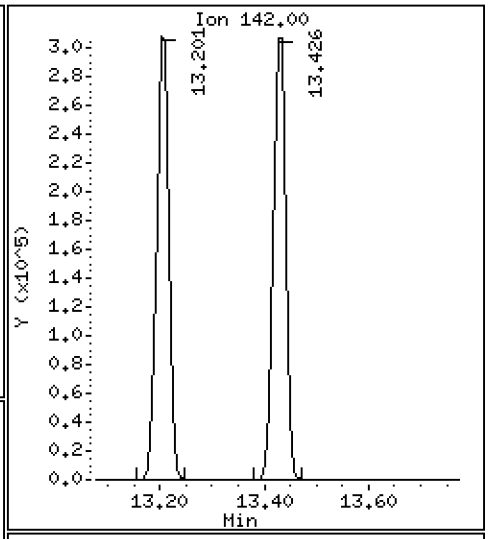
Column phase: ZB-5msi

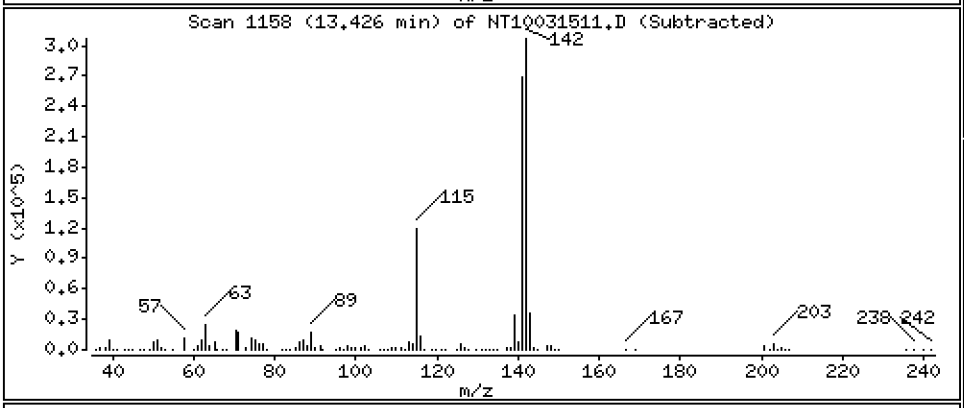
Column diameter: 0.25

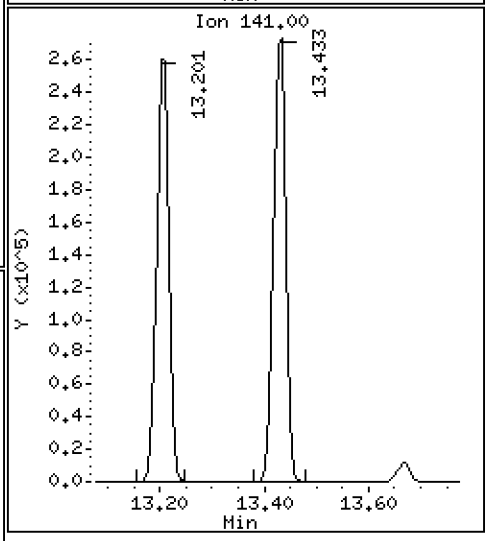
105 1-methylnaphthalene

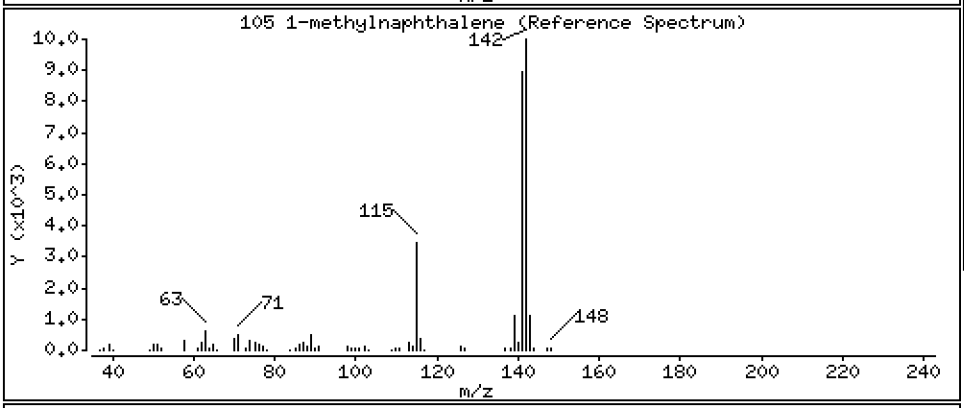
Concentration: 4.875 ug/mL

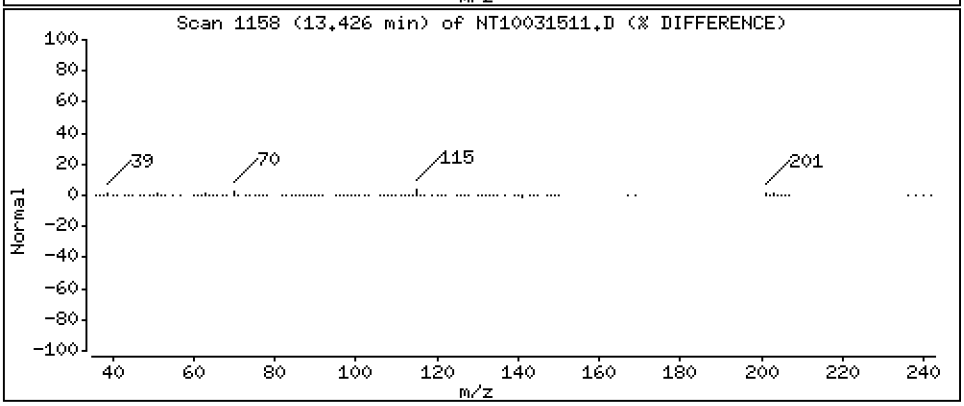












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

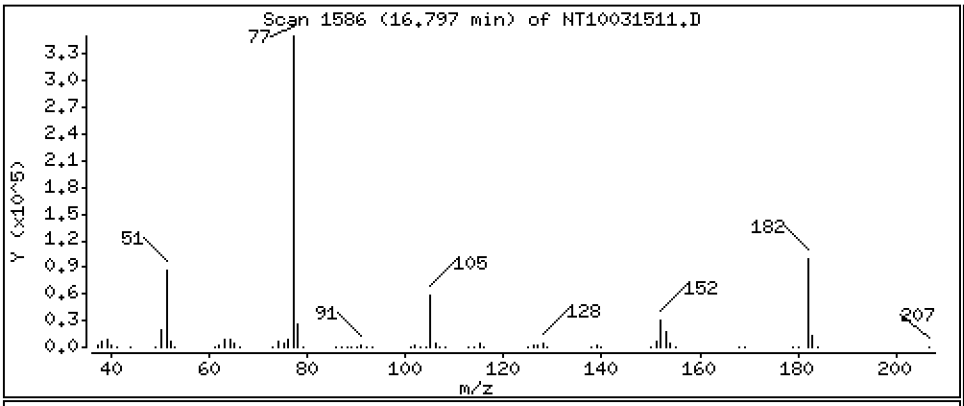
Operator: VTS

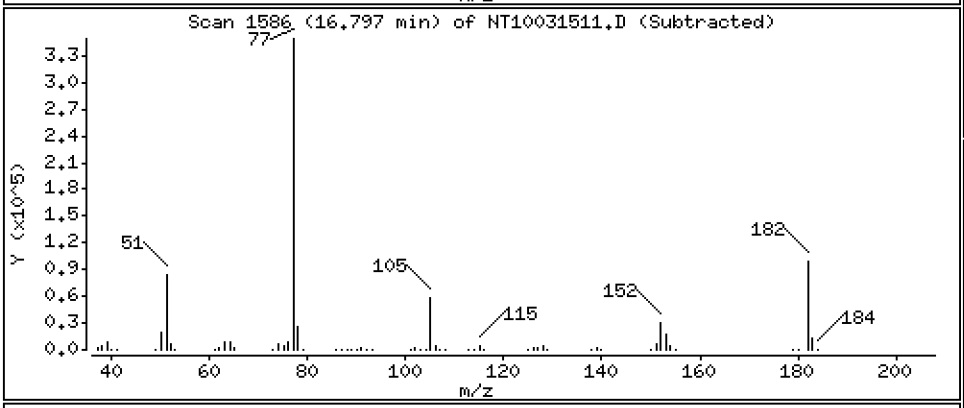
Column phase: ZB-5msi

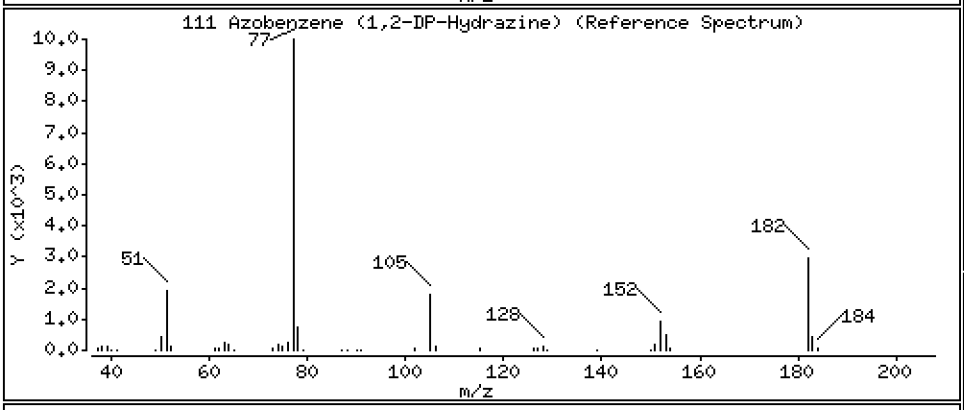
Column diameter: 0.25

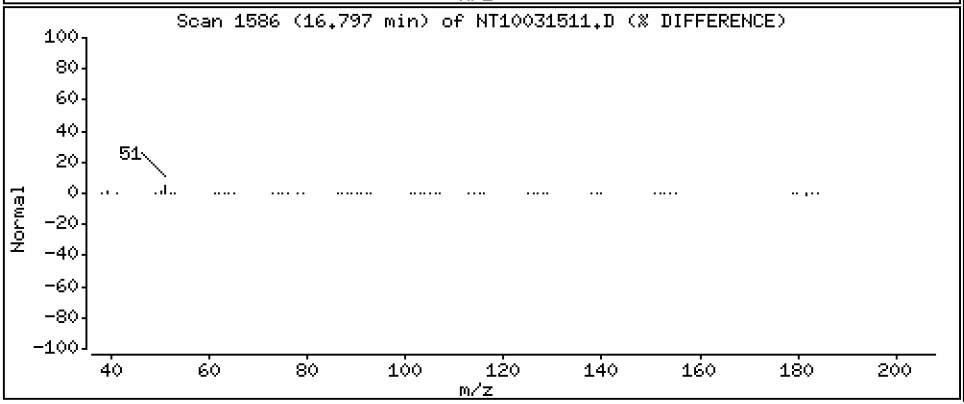
111 Azobenzene (1,2-DP-Hydrazine)

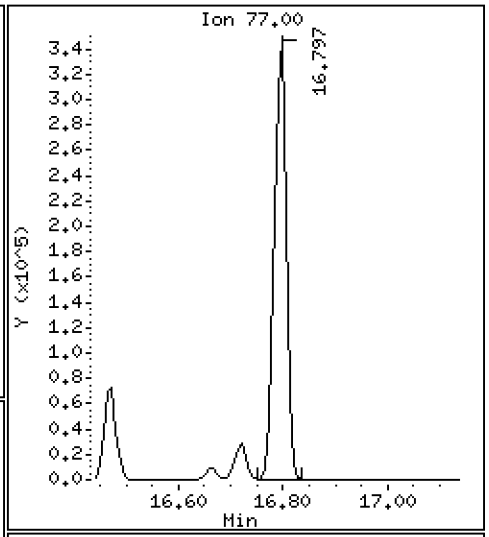
Concentration: 4.937 ug/mL

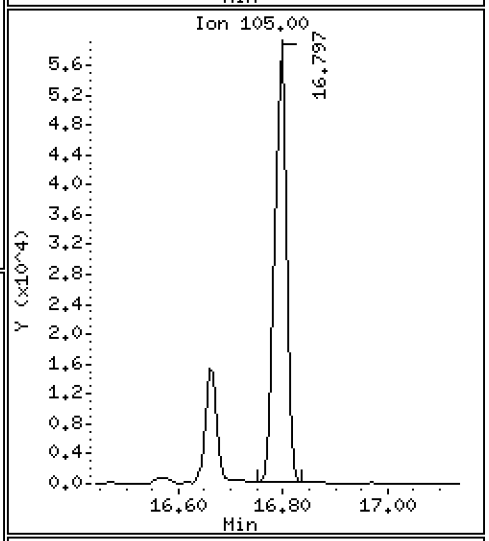


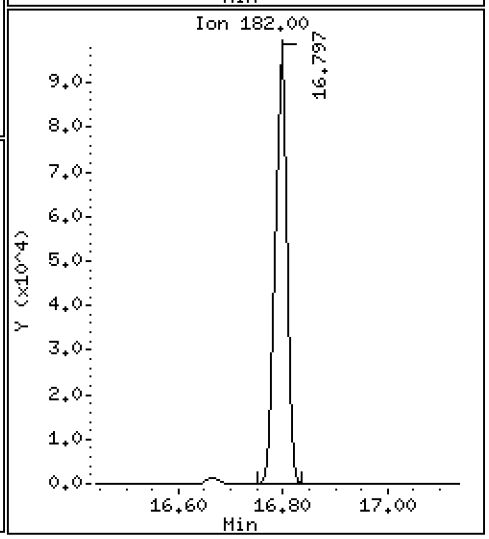












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

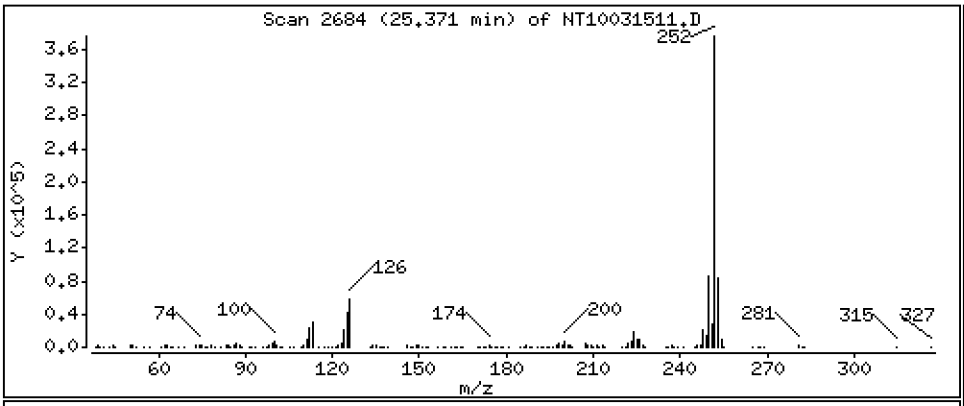
Operator: VTS

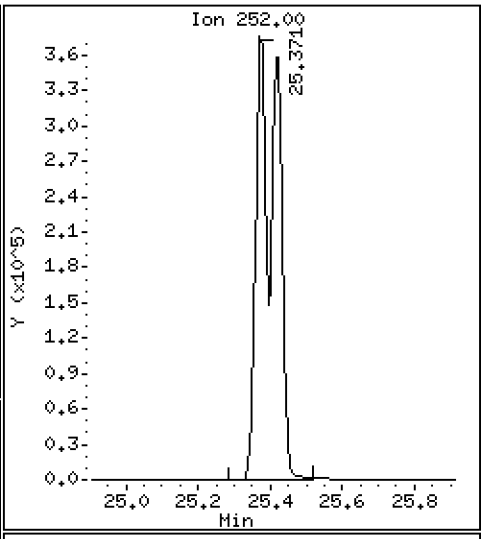
Column phase: ZB-5msi

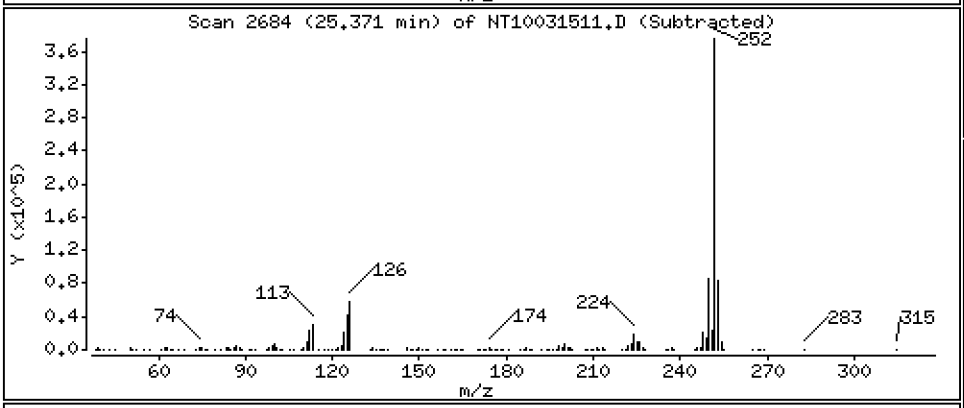
Column diameter: 0.25

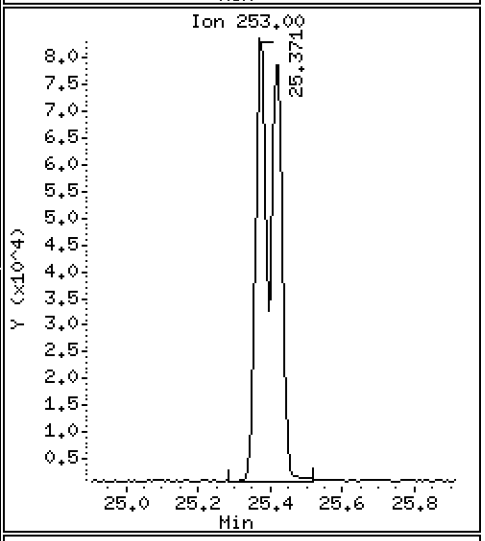
187 Total Benzofluoranthenes

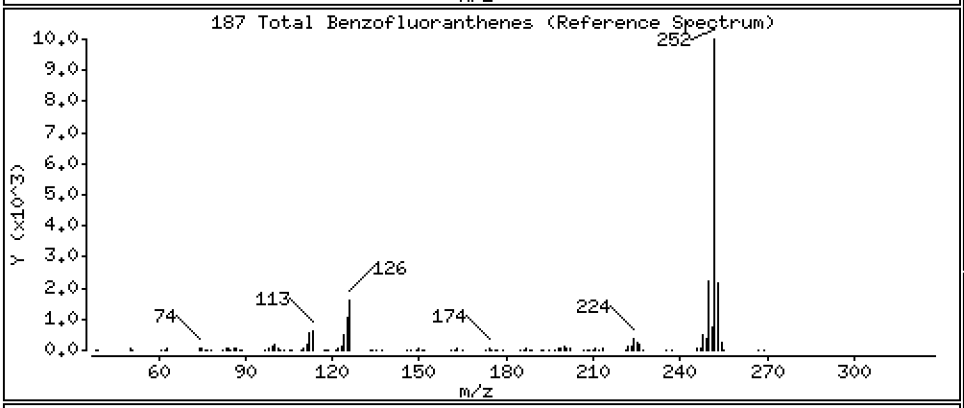
Concentration: 9.483 ug/mL

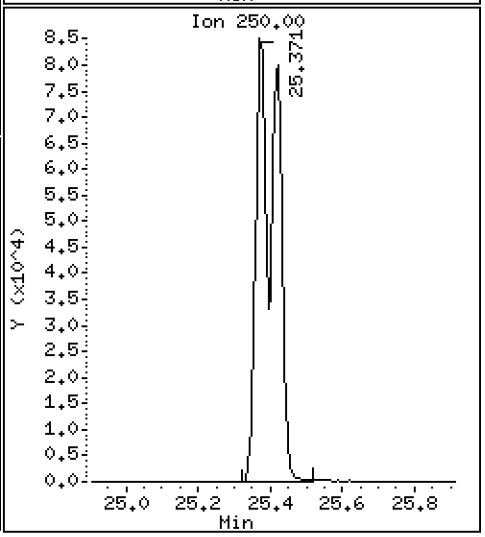


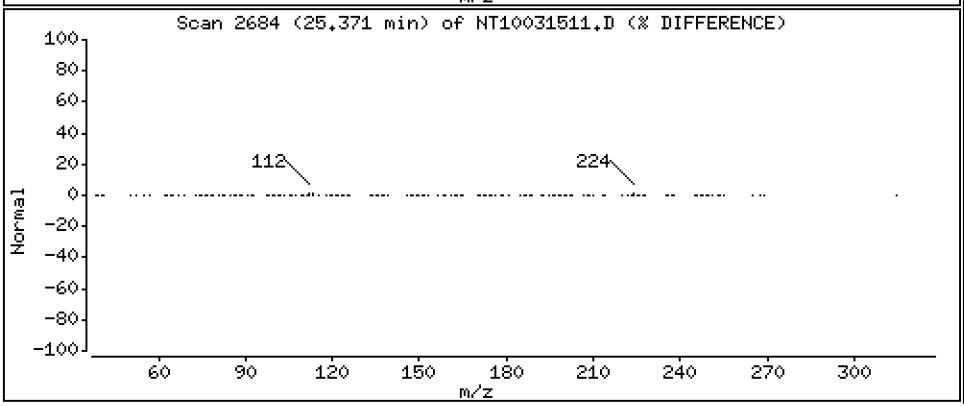












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

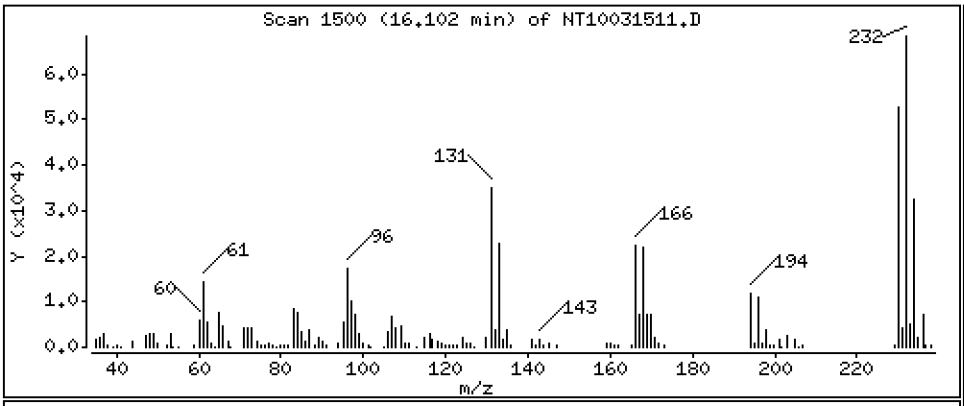
Operator: VTS

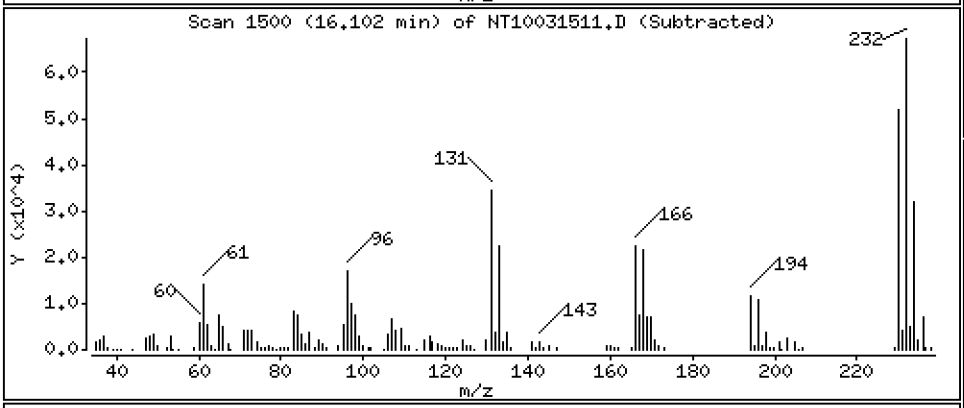
Column phase: ZB-5msi

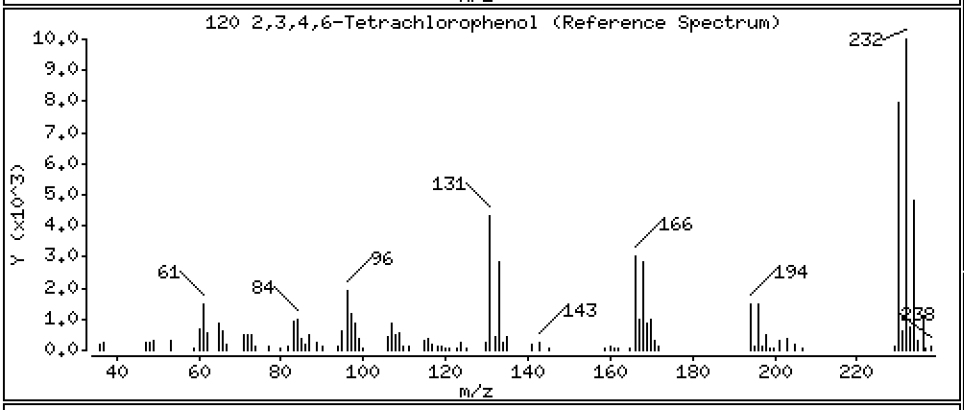
Column diameter: 0.25

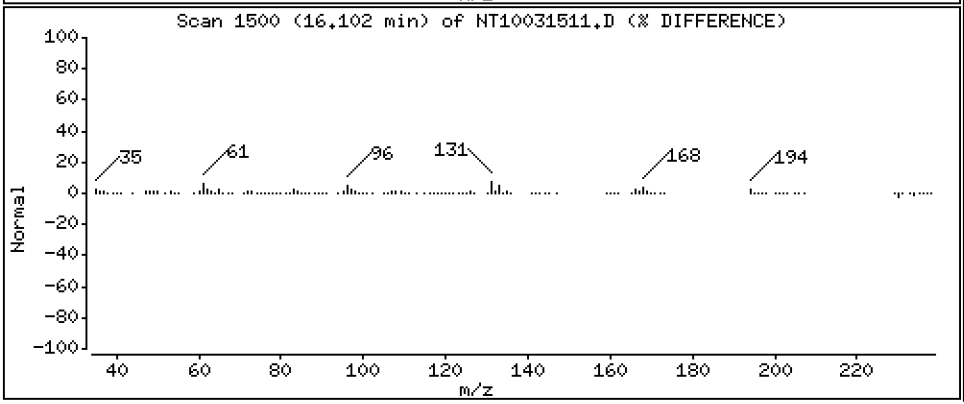
120 2,3,4,6-Tetrachlorophenol

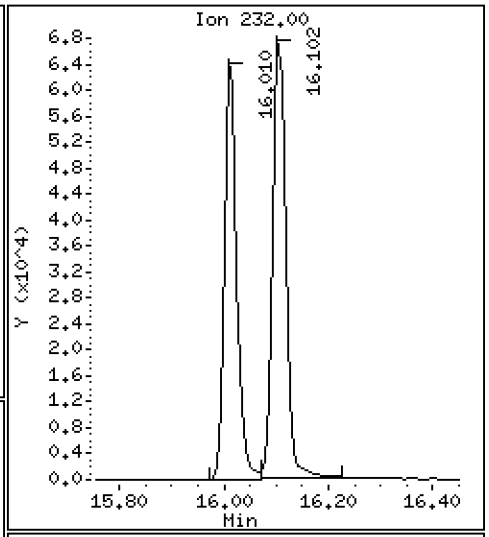
Concentration: 3.980 ug/mL

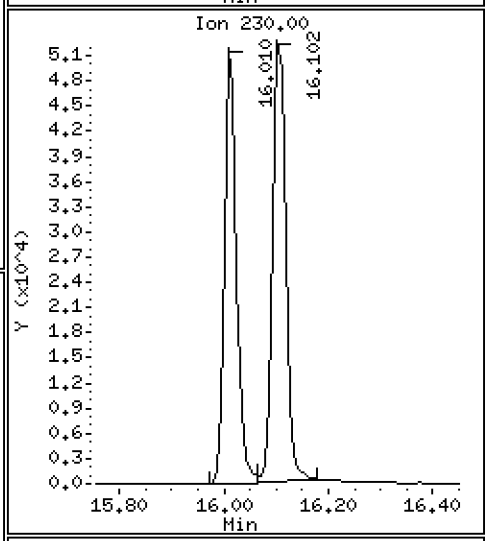


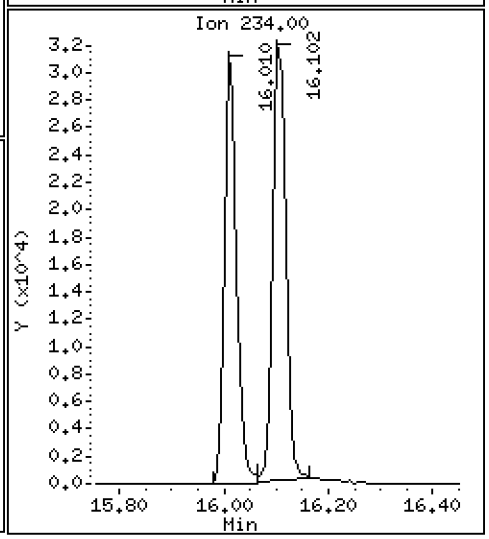












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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

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

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

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

QC Flag Legend

H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

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

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

Test Mode:
Use Last Continuing Calibrator.

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

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

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

REVIEW SUMMARY FOR FILE - NT10031511.D

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

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

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

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.952	0.000	0.9524	Benzoic acid

RRT check based on Ccal File: NT10031508.D

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

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

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GC00046
Laboratory ID: SLC0228-SCV1
Sequence: SLC0228
Standard ID: L002833

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

* Values outside of QC limits

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

Page 1

Date : 16-MAR-2023 02:16

Client ID:

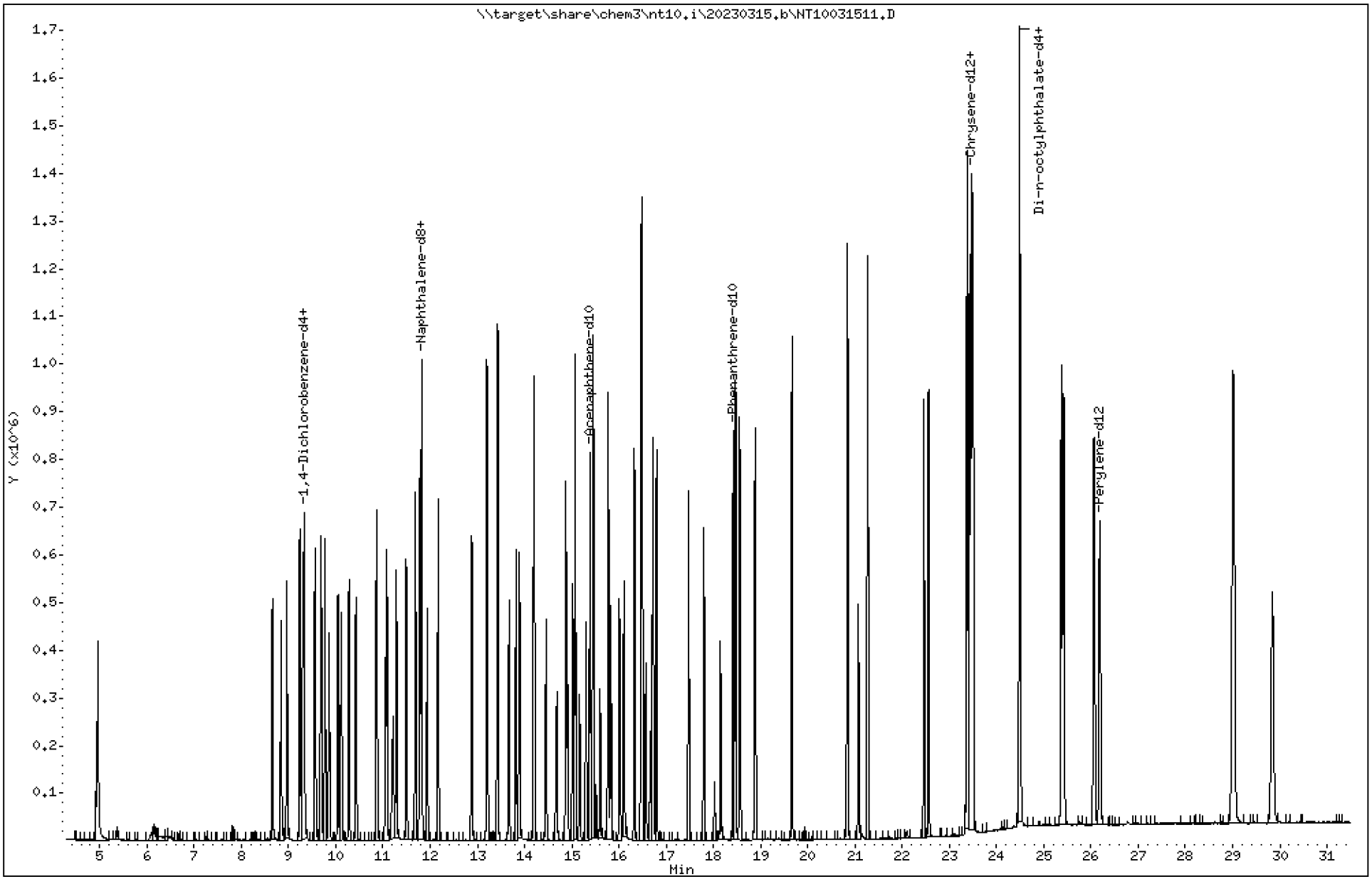
Instrument: nt10.i

Sample Info: SLC0228-SCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

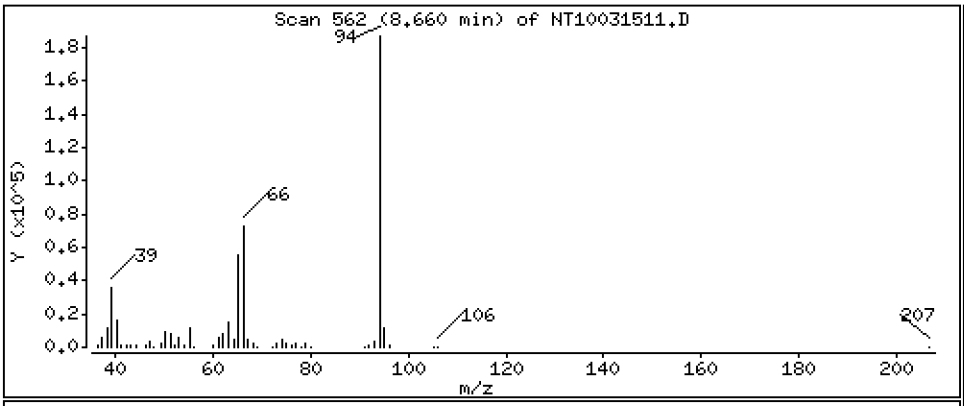
Operator: VTS

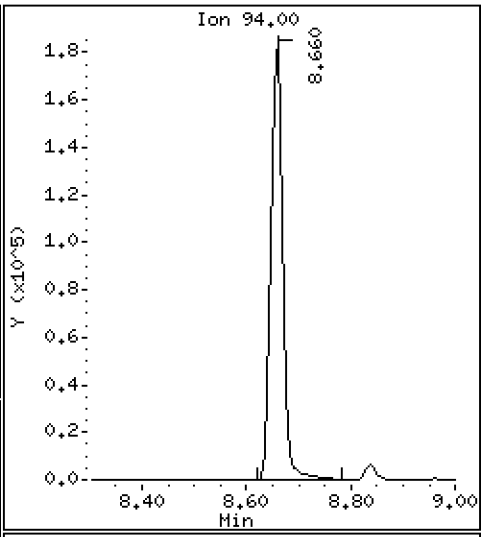
Column phase: ZB-5msi

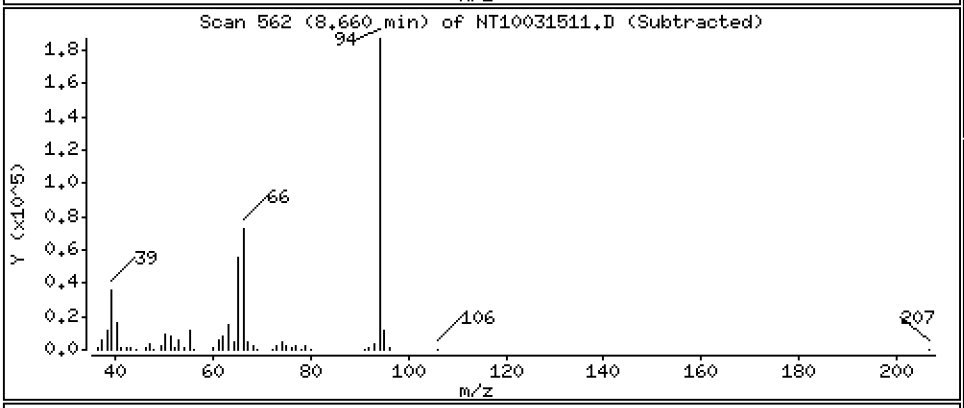
Column diameter: 0.25

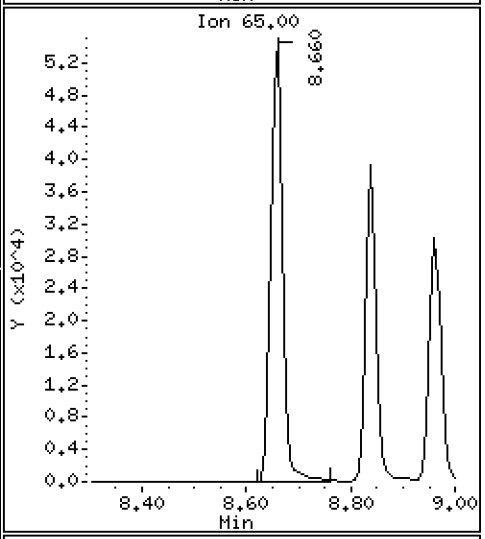
3 Phenol

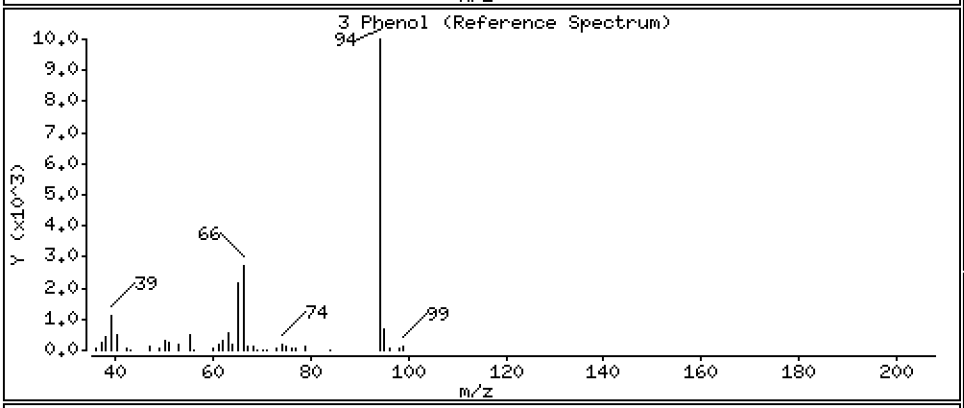
Concentration: 4.412 ug/mL

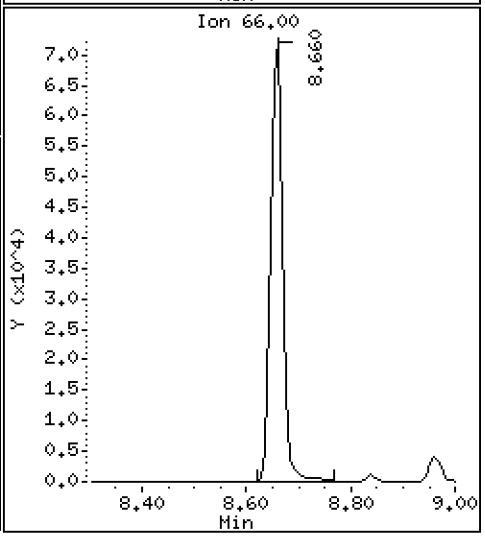


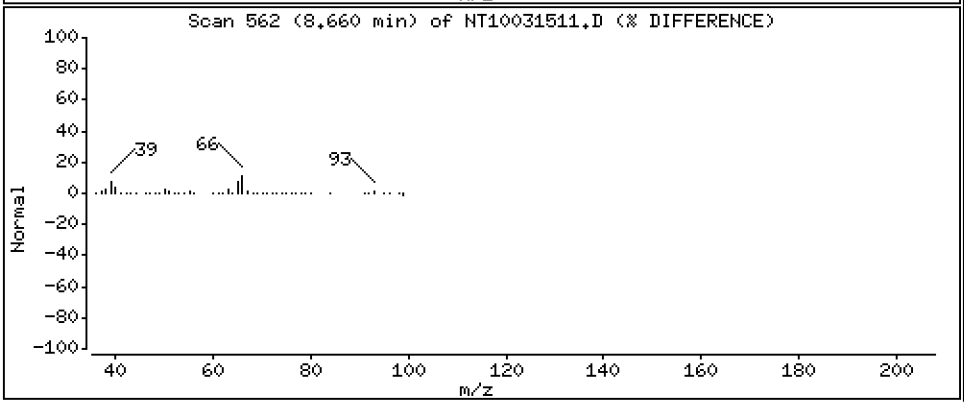












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

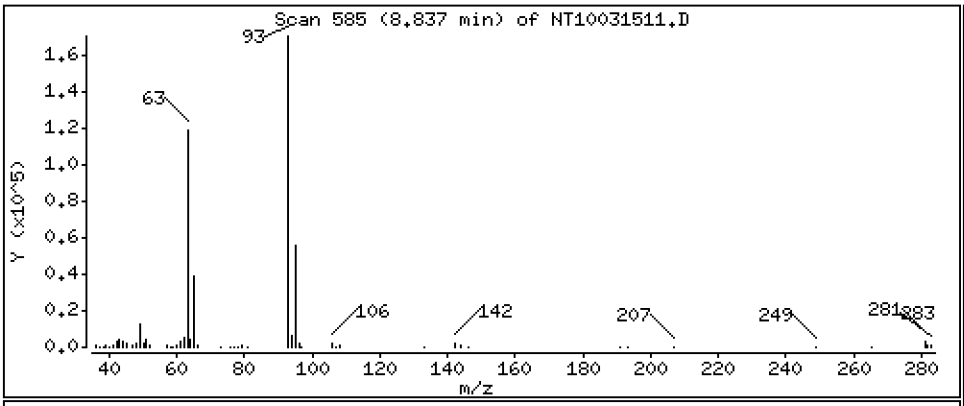
Operator: VTS

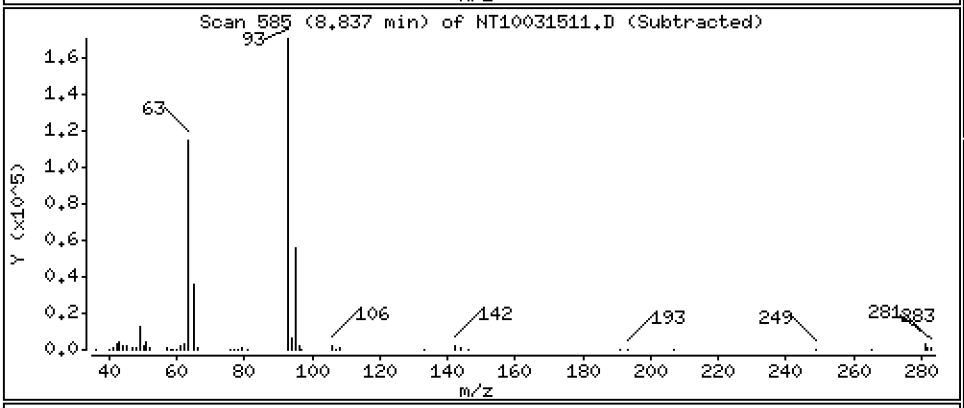
Column phase: ZB-5msi

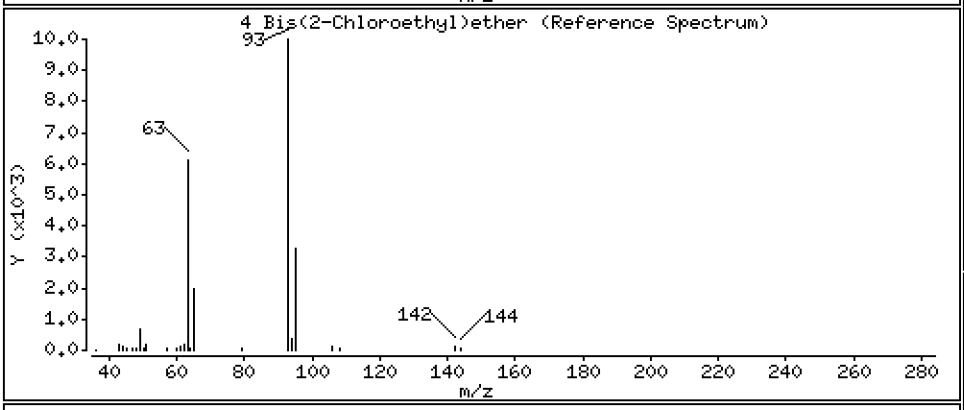
Column diameter: 0.25

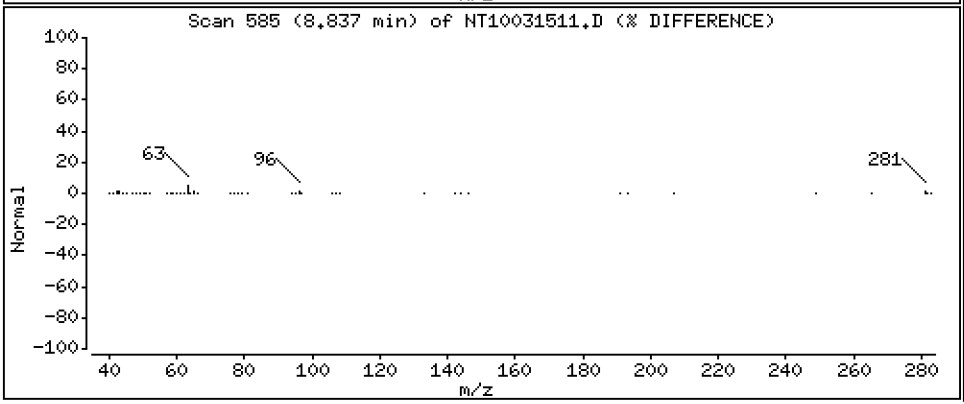
4 Bis(2-Chloroethyl)ether

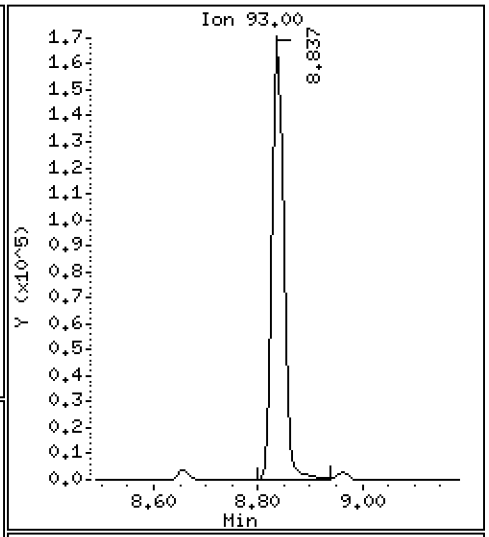
Concentration: 5.258 ug/mL

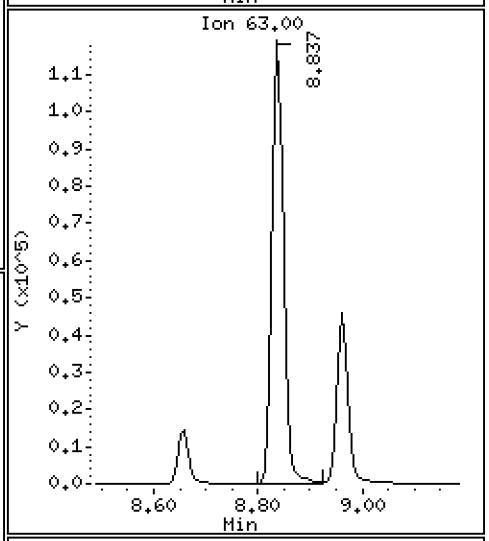


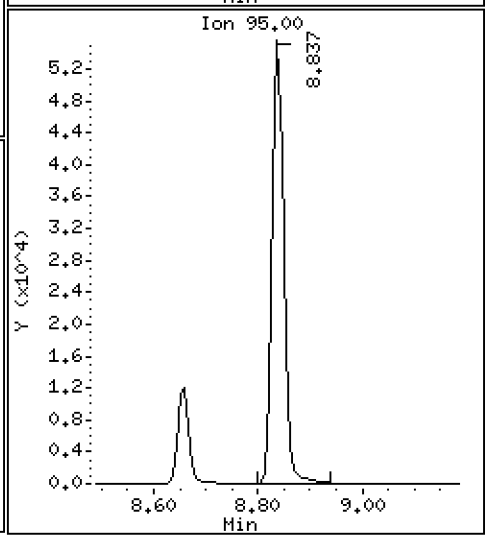












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

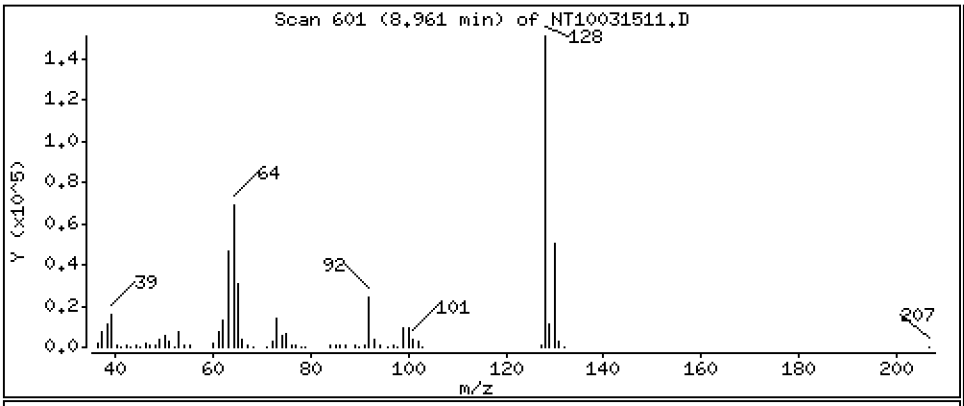
Operator: VTS

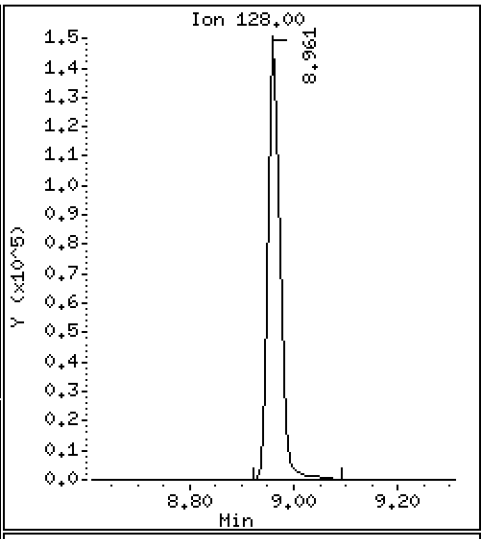
Column phase: ZB-5msi

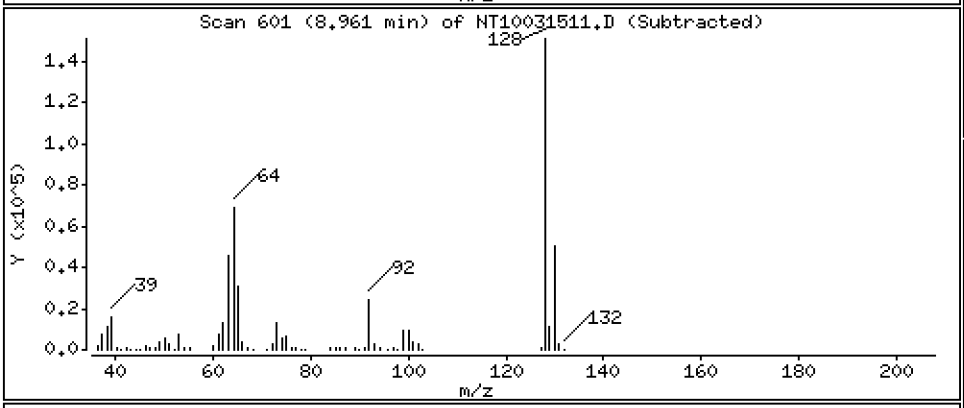
Column diameter: 0.25

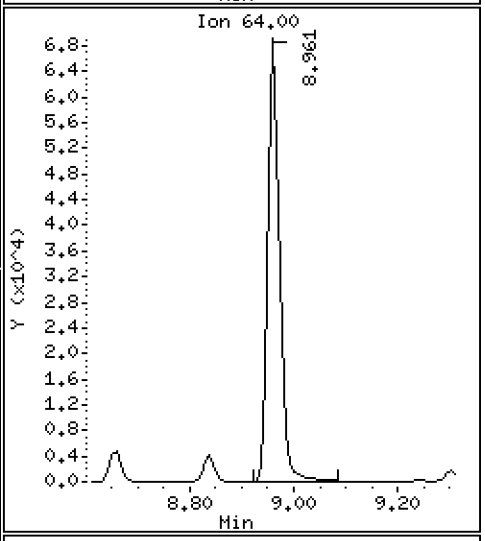
6 2-Chlorophenol

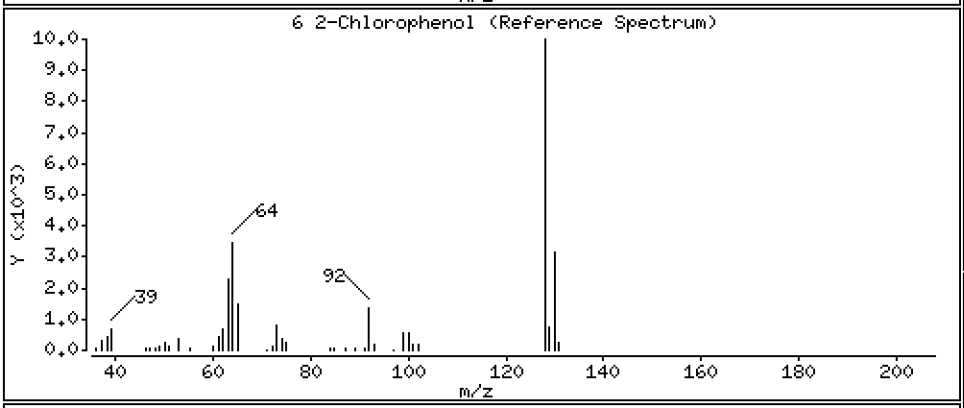
Concentration: 4.277 ug/mL

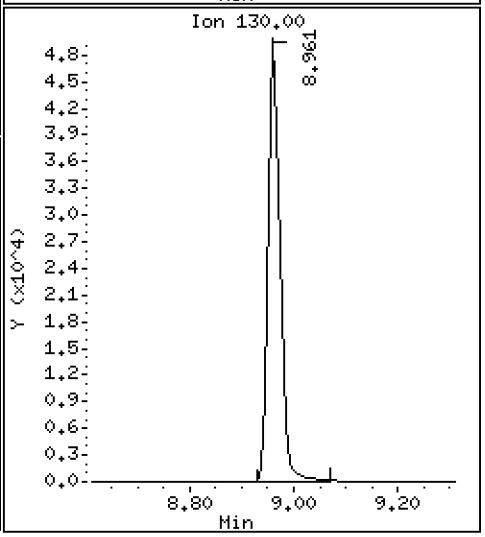


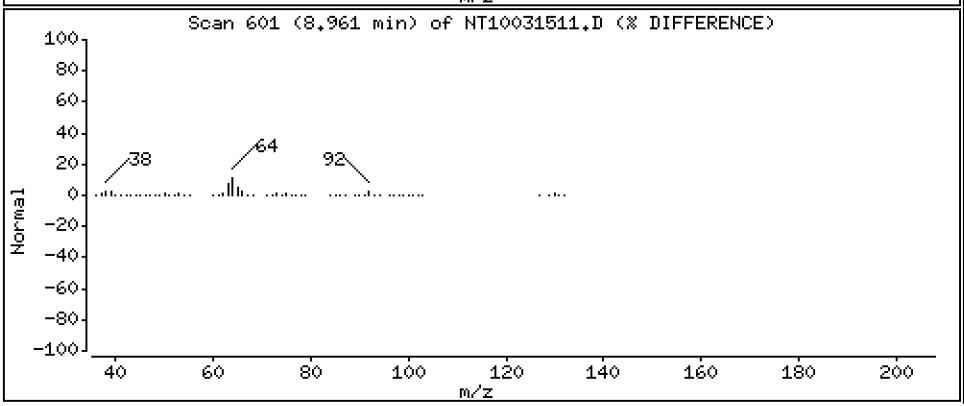












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

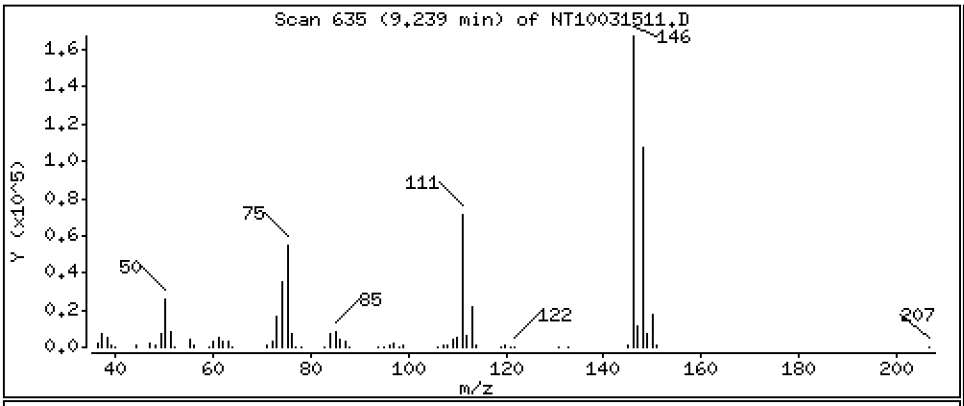
Operator: VTS

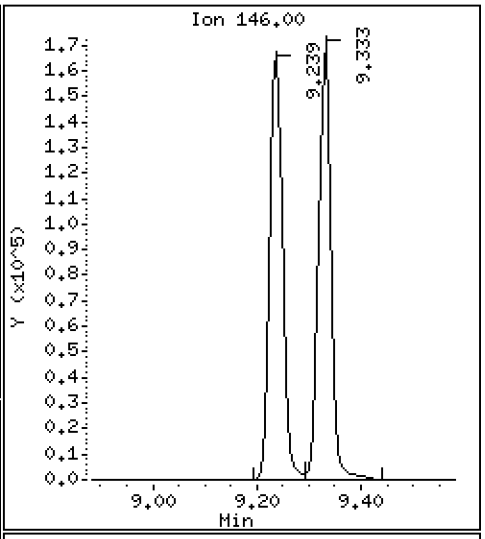
Column phase: ZB-5msi

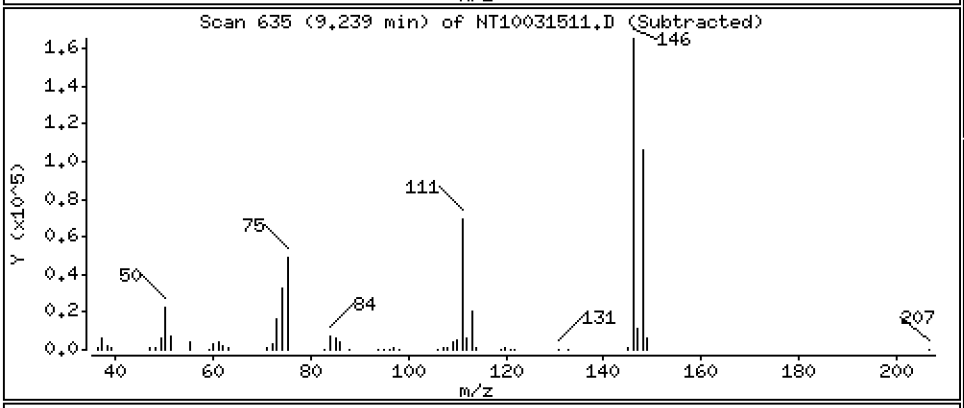
Column diameter: 0.25

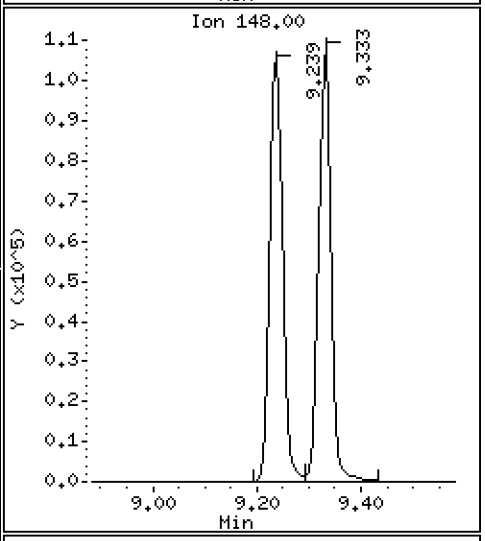
7 1,3-Dichlorobenzene

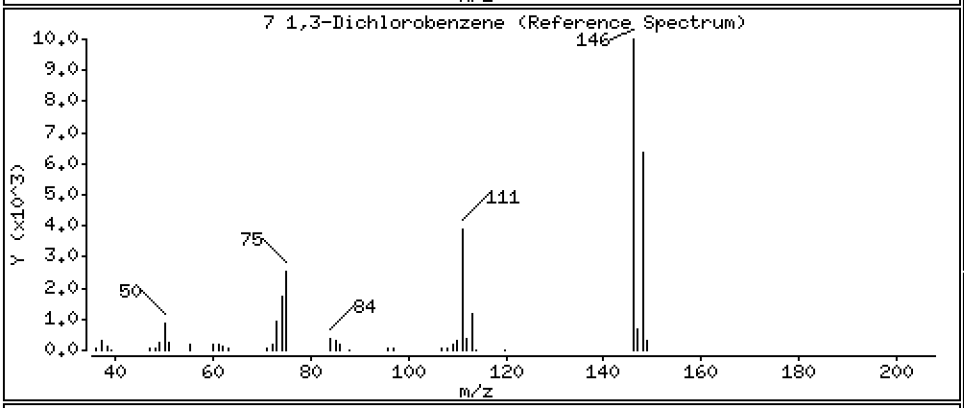
Concentration: 4.772 ug/mL

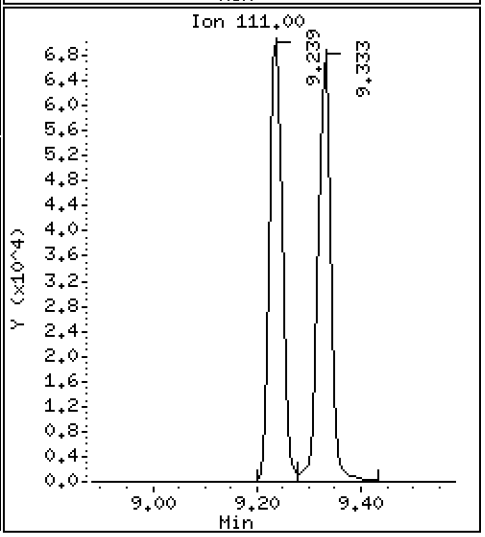


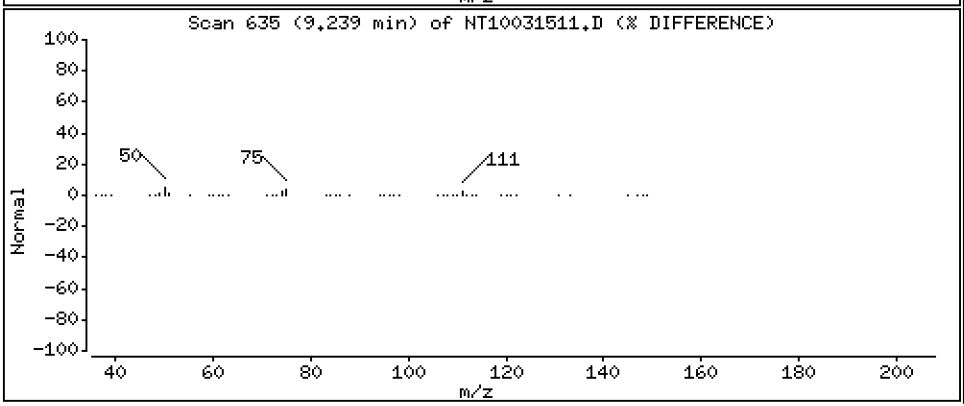












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

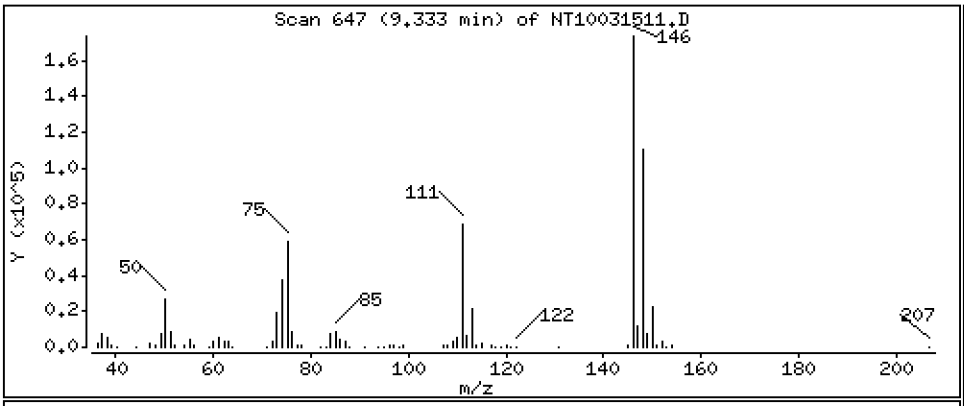
Operator: VTS

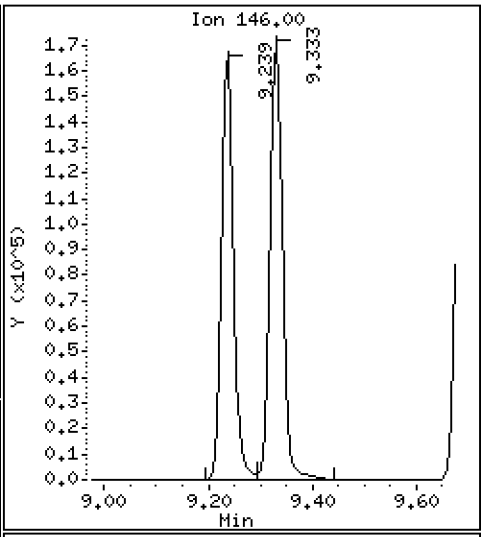
Column phase: ZB-5msi

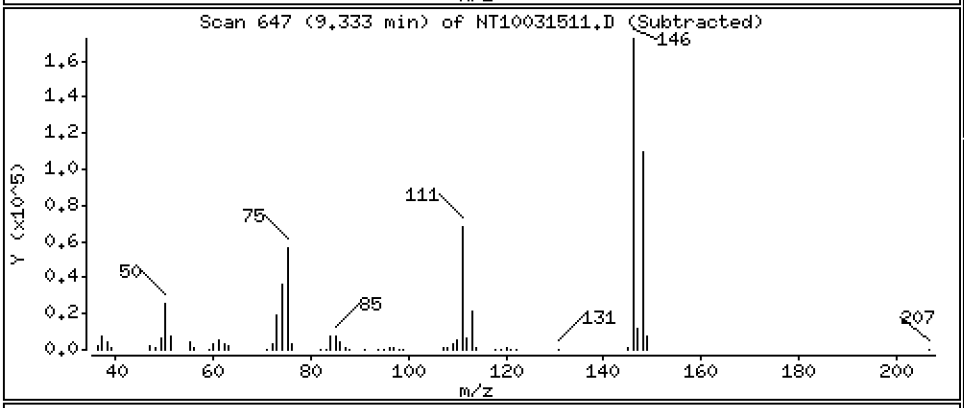
Column diameter: 0.25

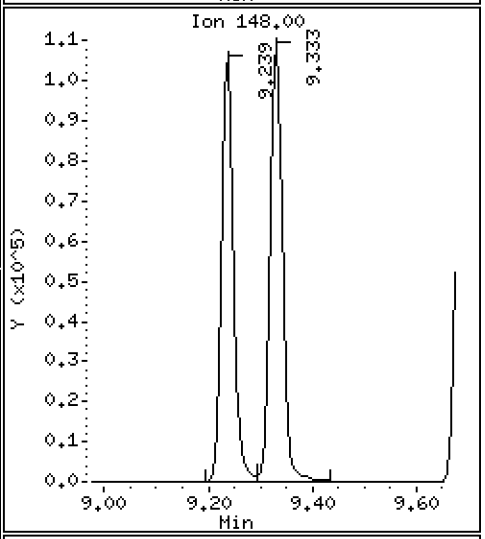
9 1,4-Dichlorobenzene

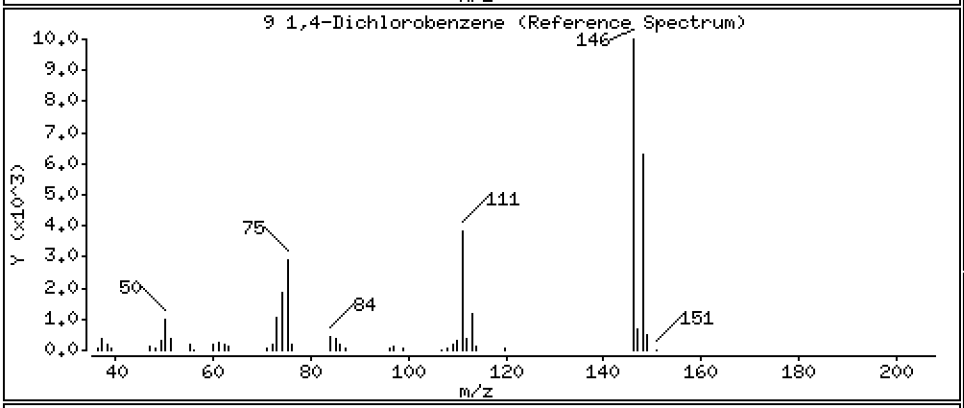
Concentration: 4.913 ug/mL

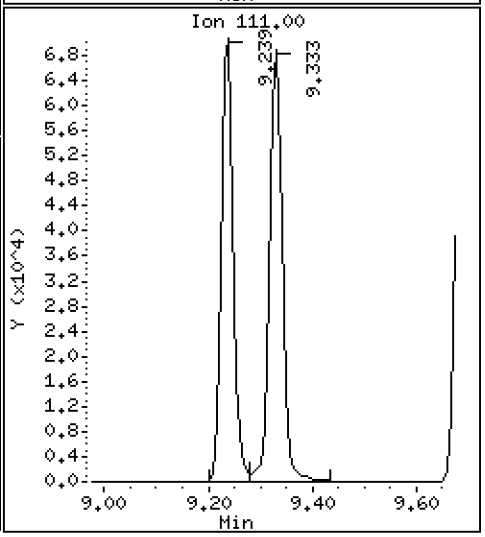


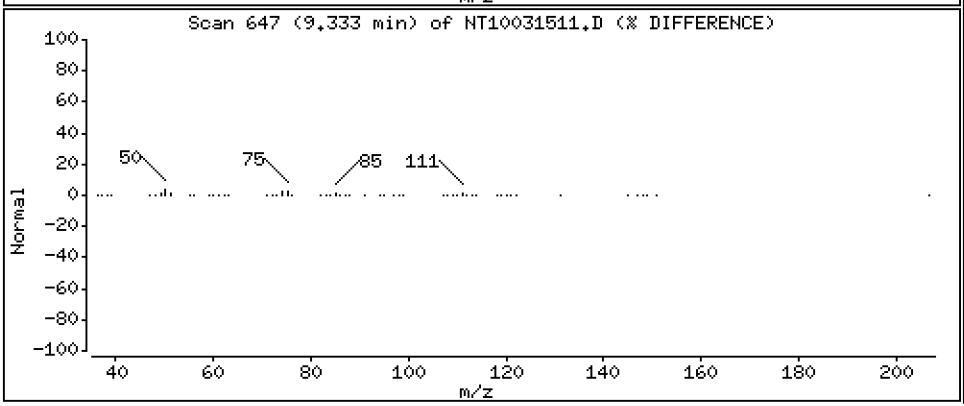












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

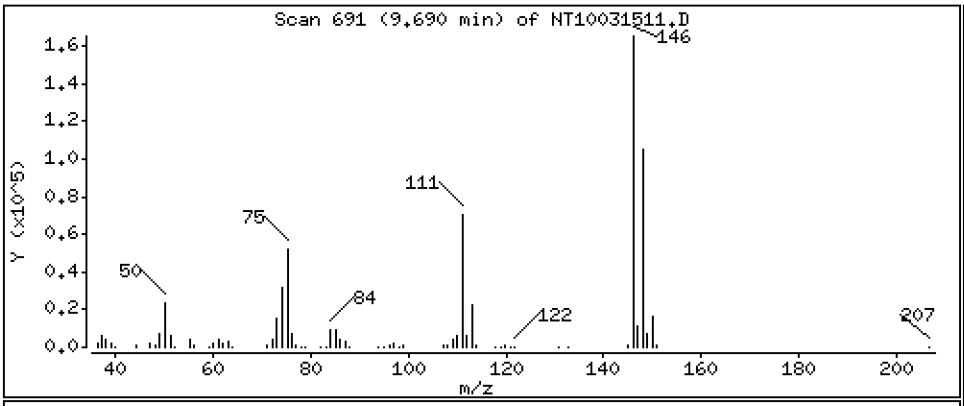
Operator: VTS

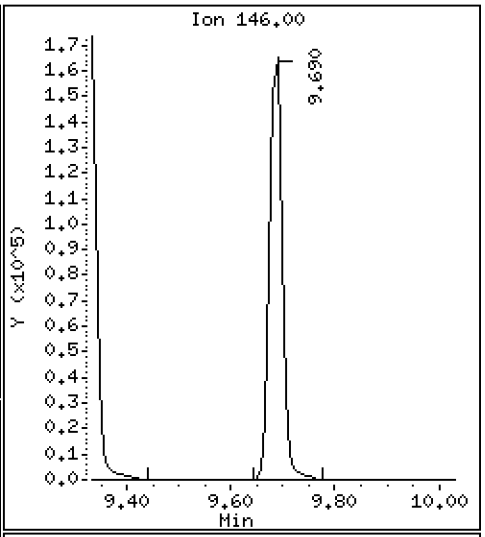
Column phase: ZB-5msi

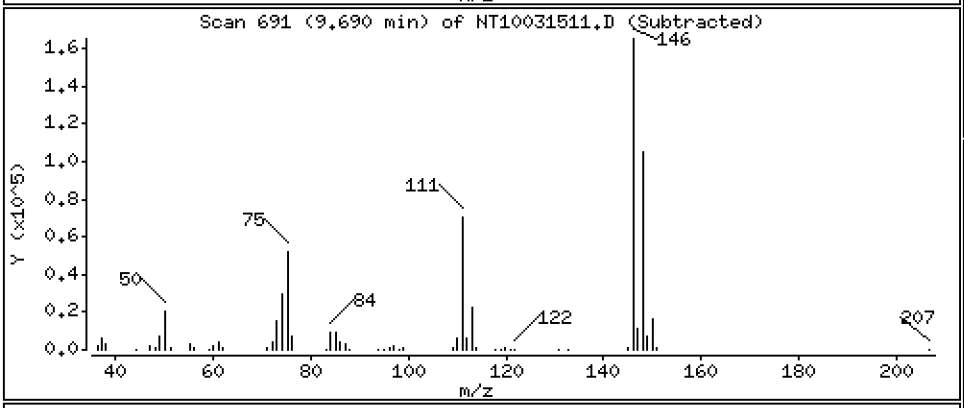
Column diameter: 0.25

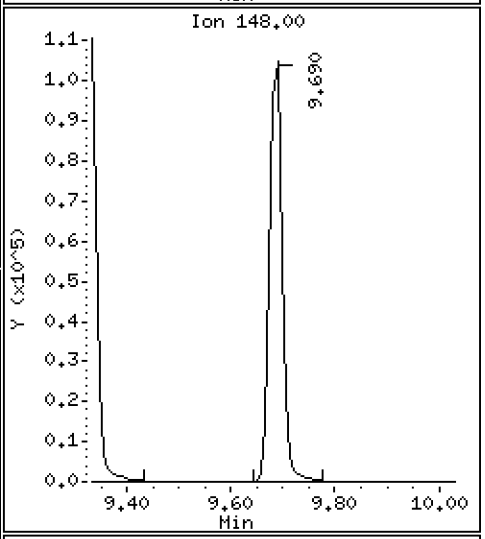
12 1,2-Dichlorobenzene

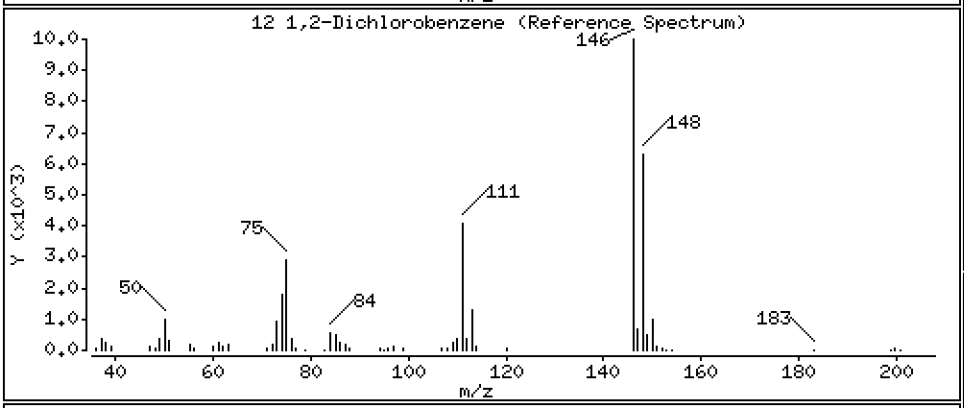
Concentration: 4.882 ug/mL

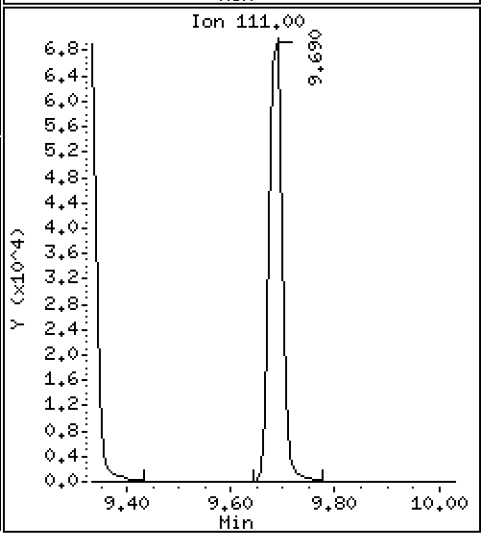


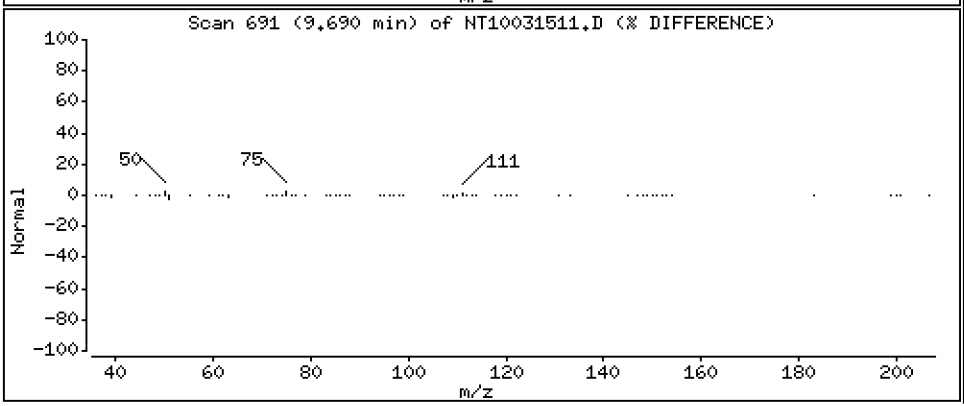












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

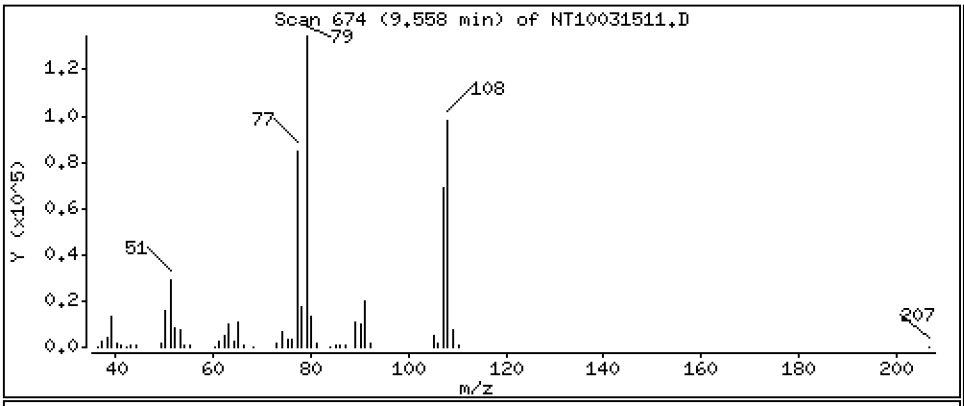
Operator: VTS

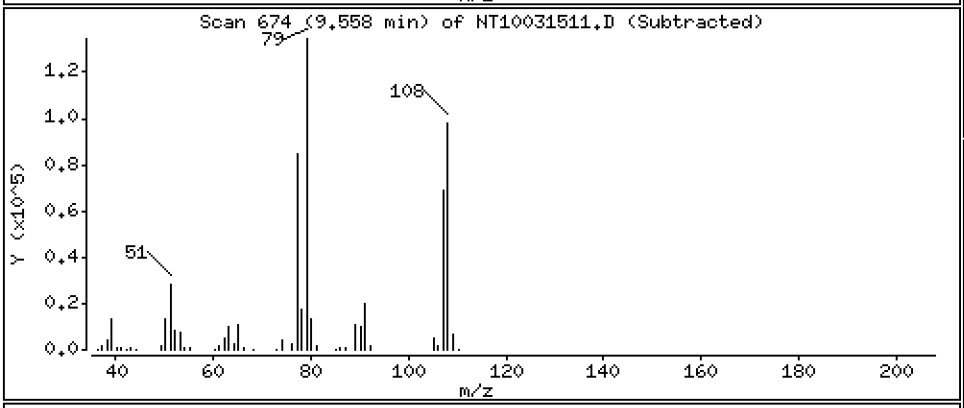
Column phase: ZB-5msi

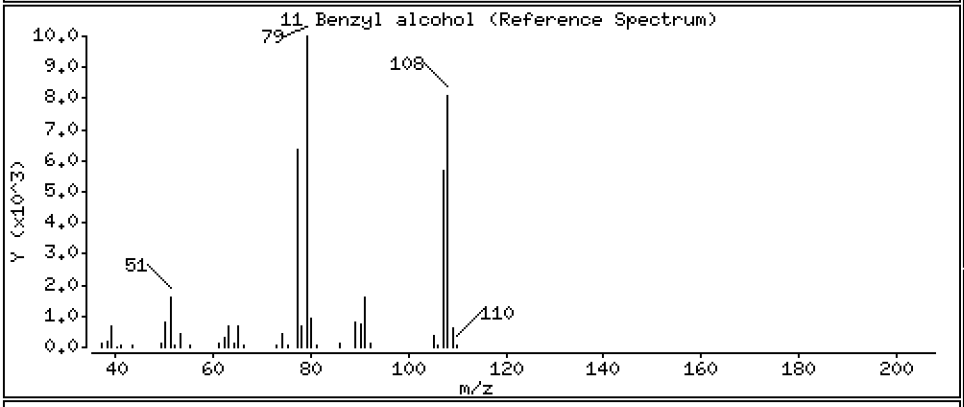
Column diameter: 0.25

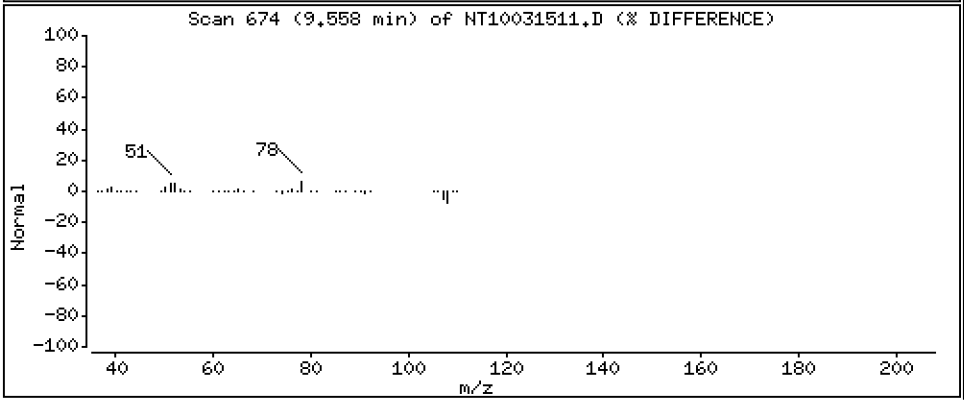
11 Benzyl alcohol

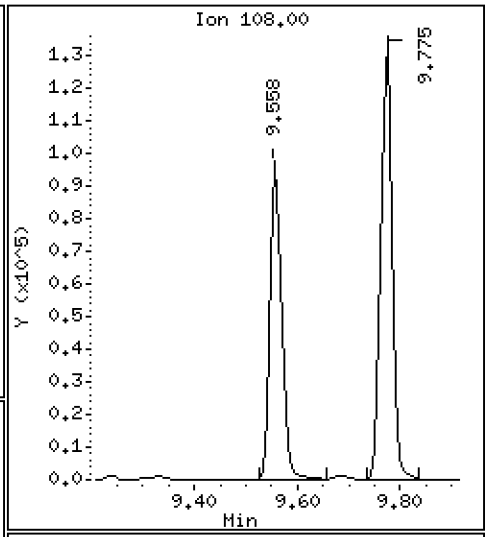
Concentration: 4.927 ug/mL

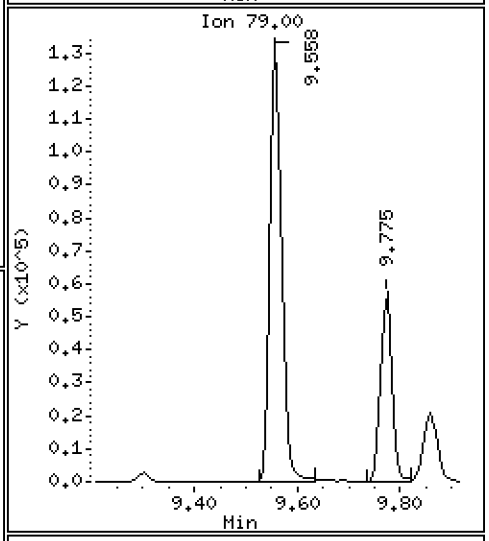


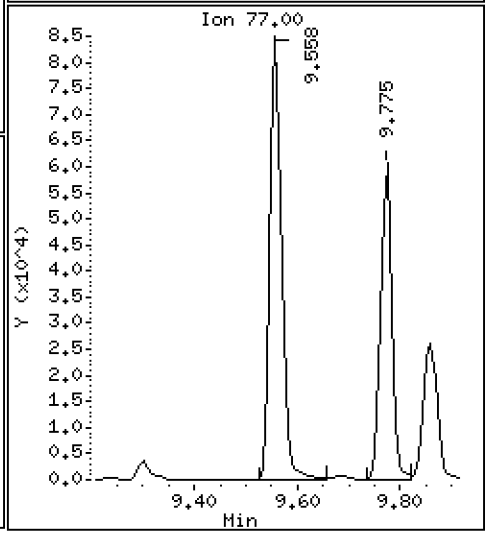












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

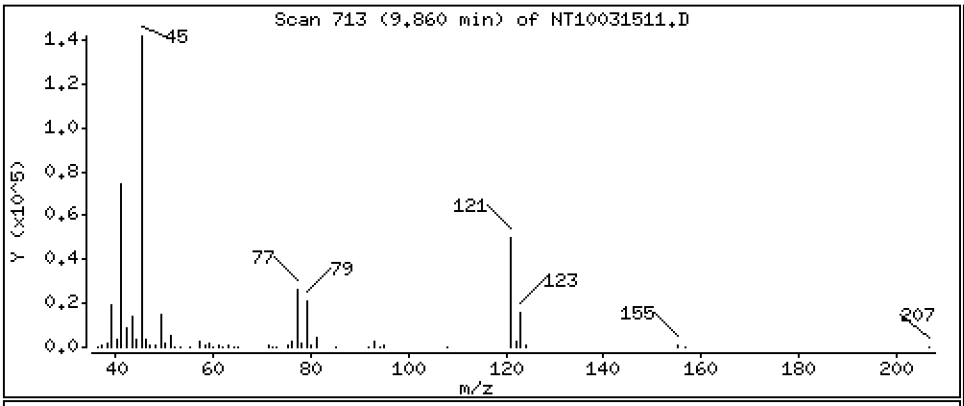
Operator: VTS

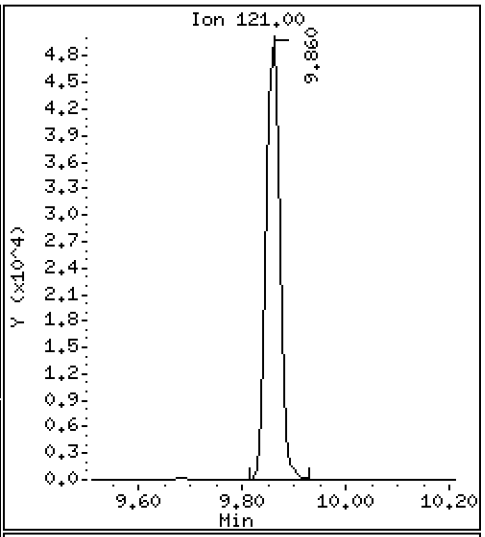
Column phase: ZB-5msi

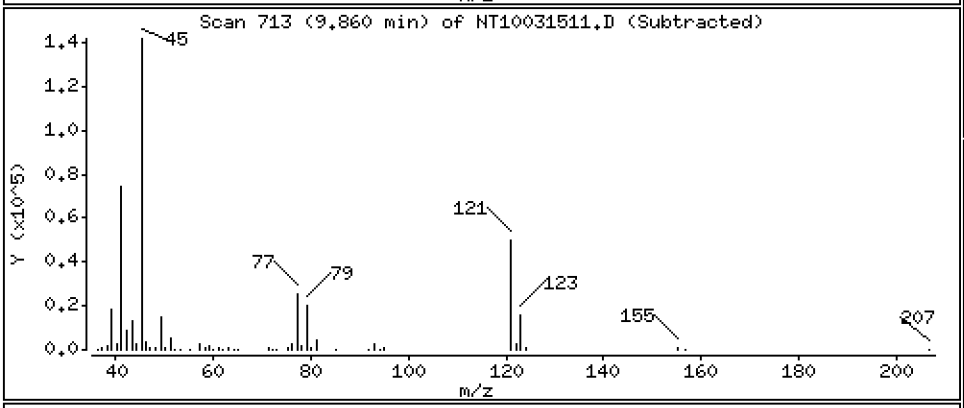
Column diameter: 0.25

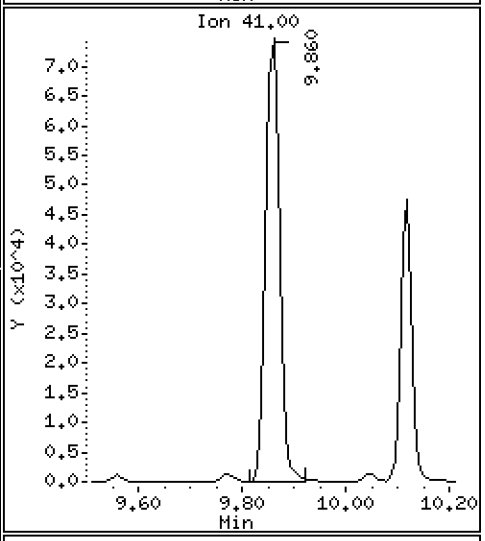
14 2,2'-oxybis(1-Chloropropane)

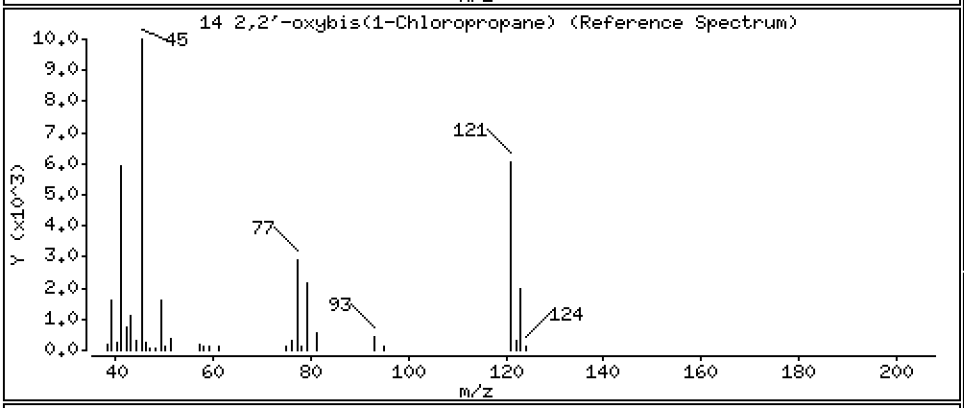
Concentration: 6.214 ug/mL

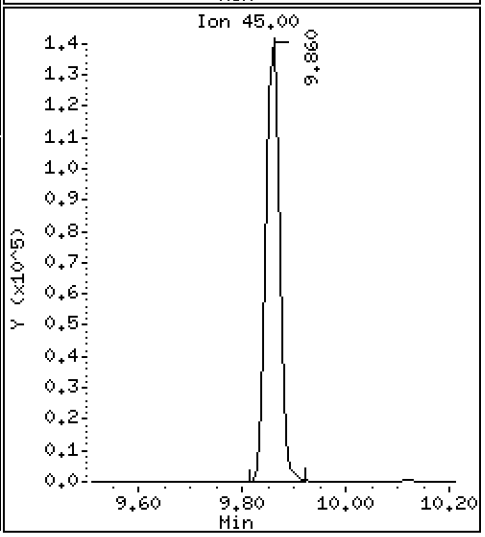


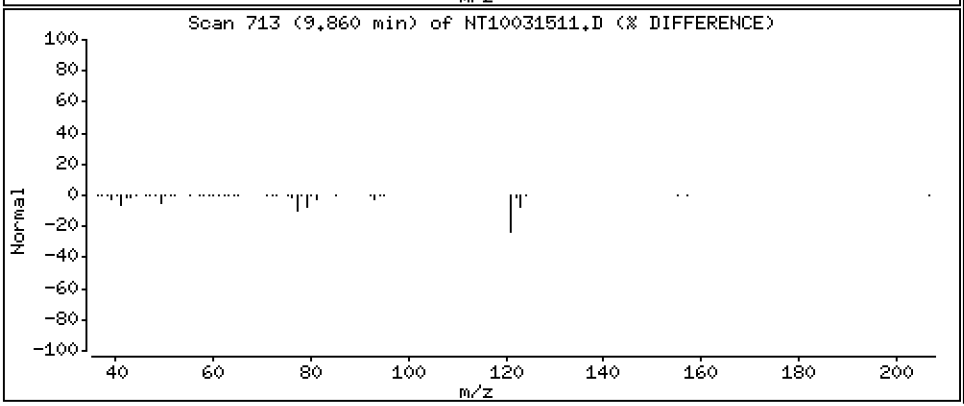












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

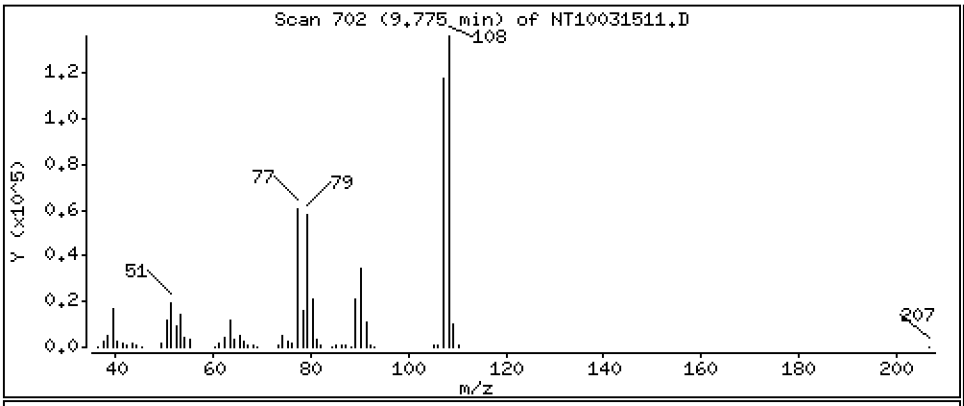
Operator: VTS

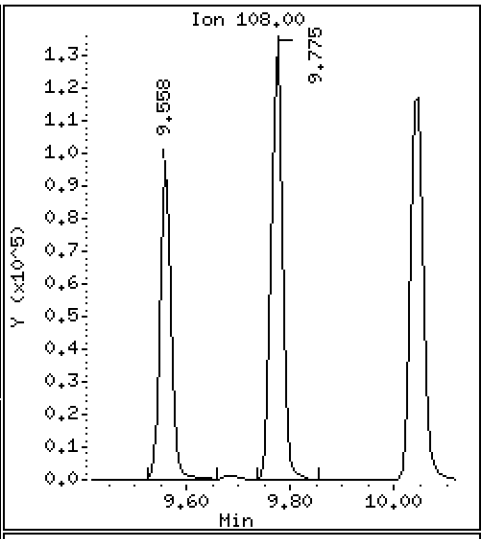
Column phase: ZB-5msi

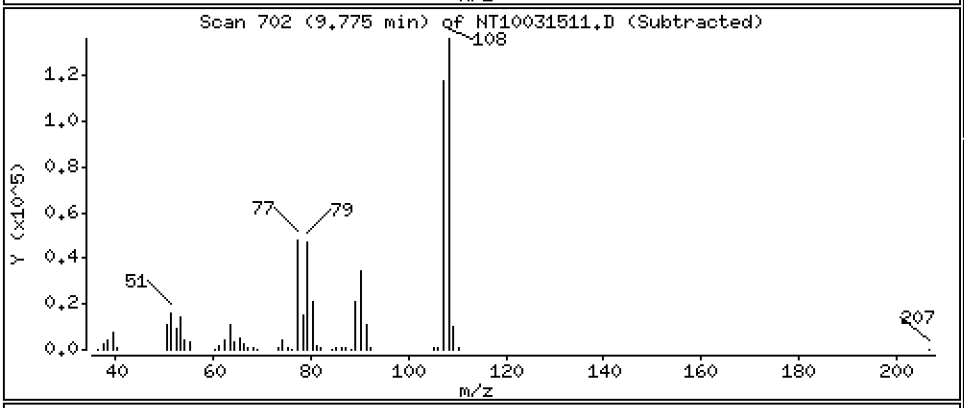
Column diameter: 0.25

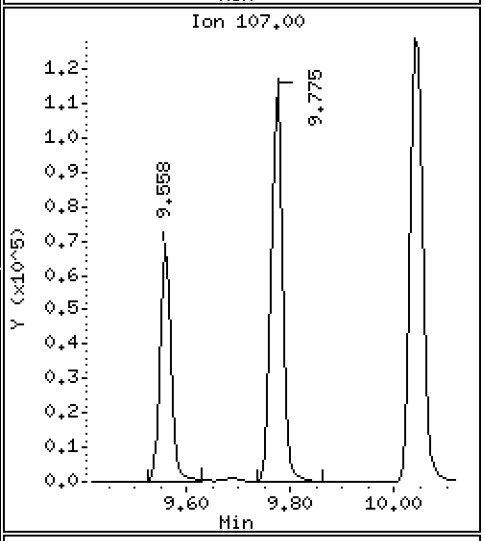
13 2-Methylphenol

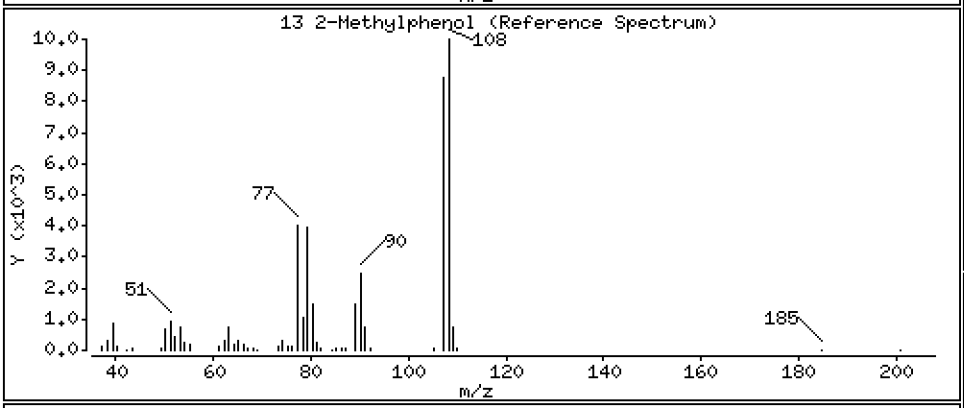
Concentration: 4.215 ug/mL

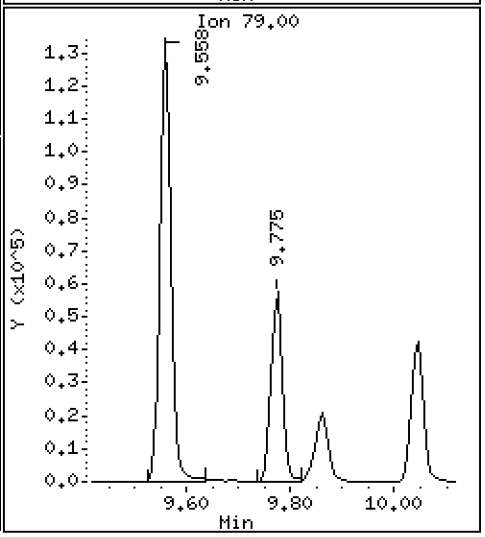


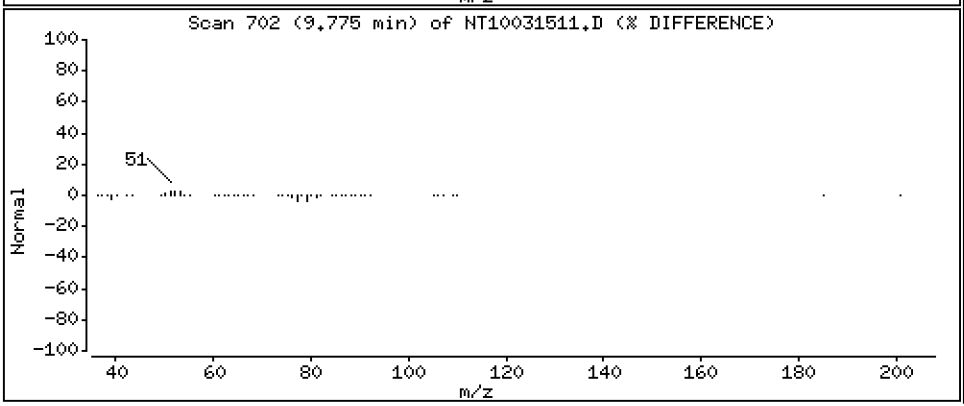












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

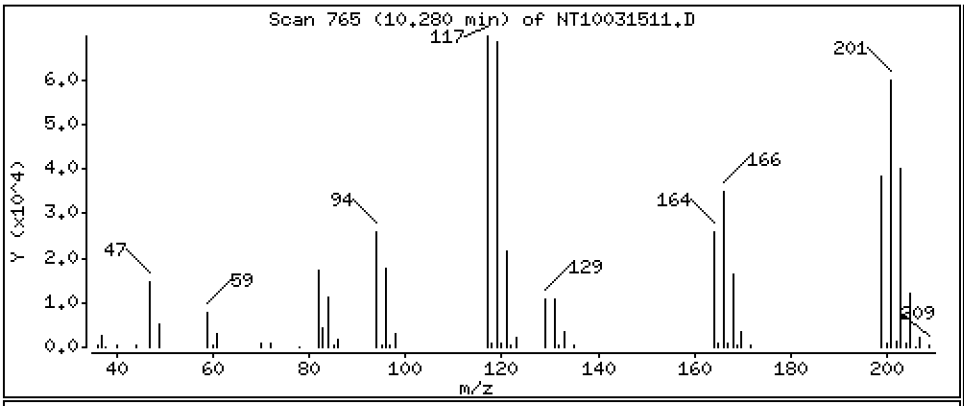
Operator: VTS

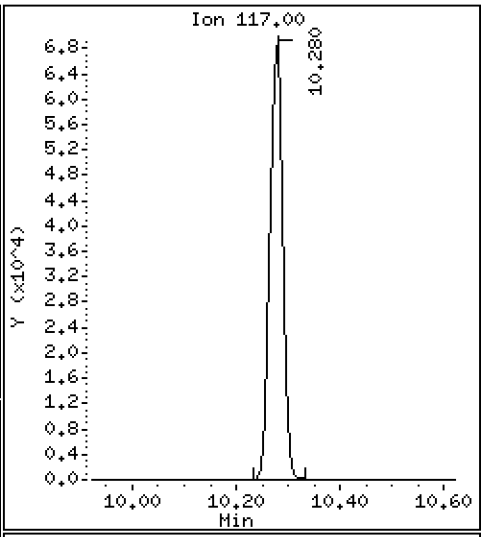
Column phase: ZB-5msi

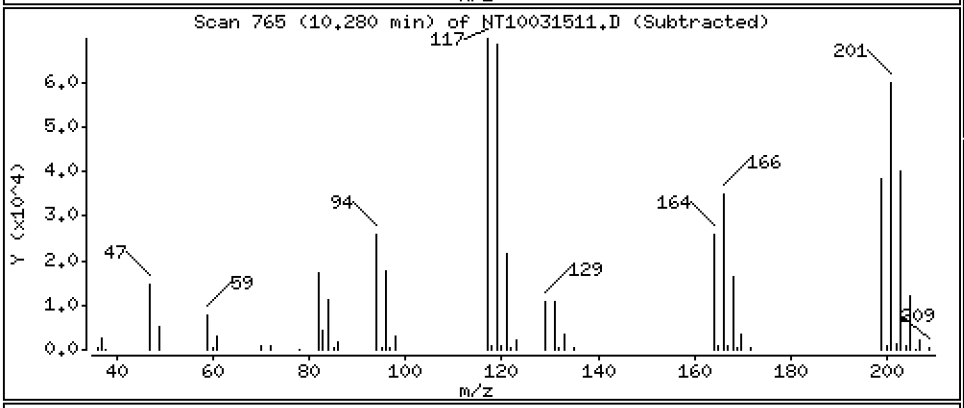
Column diameter: 0.25

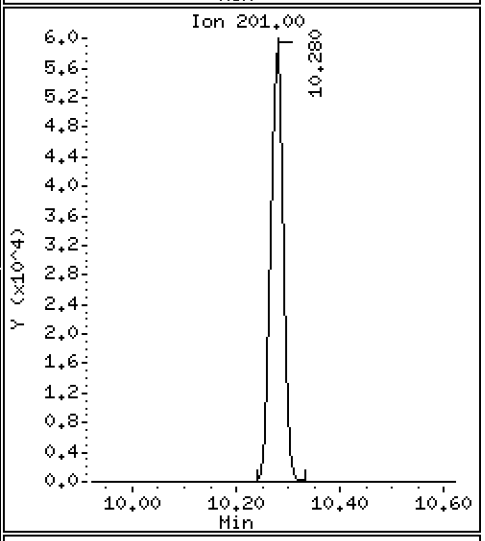
17 Hexachloroethane

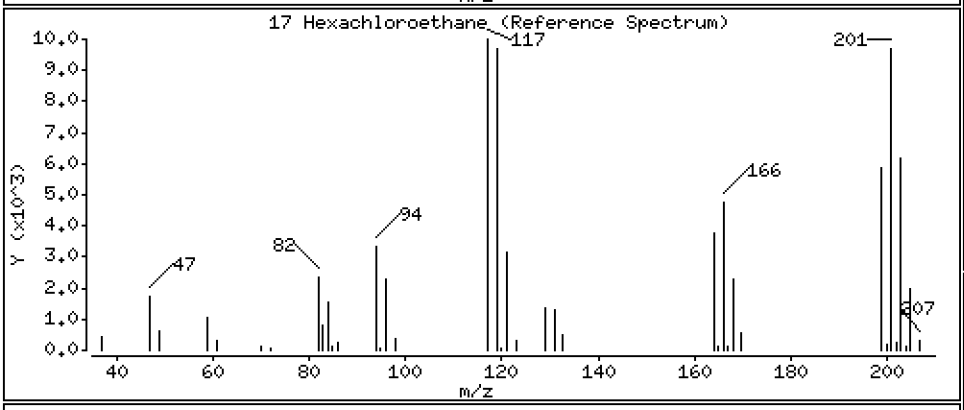
Concentration: 5.003 ug/mL

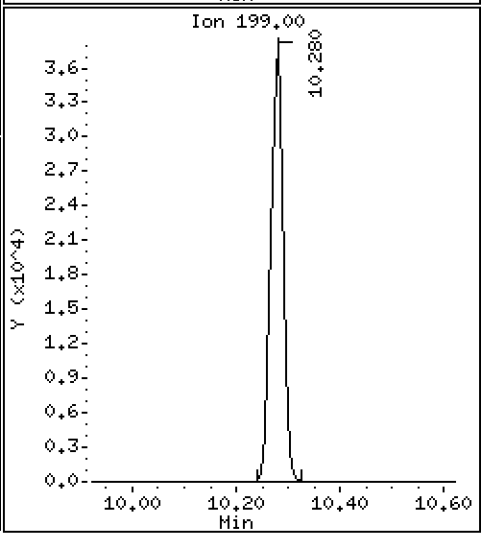


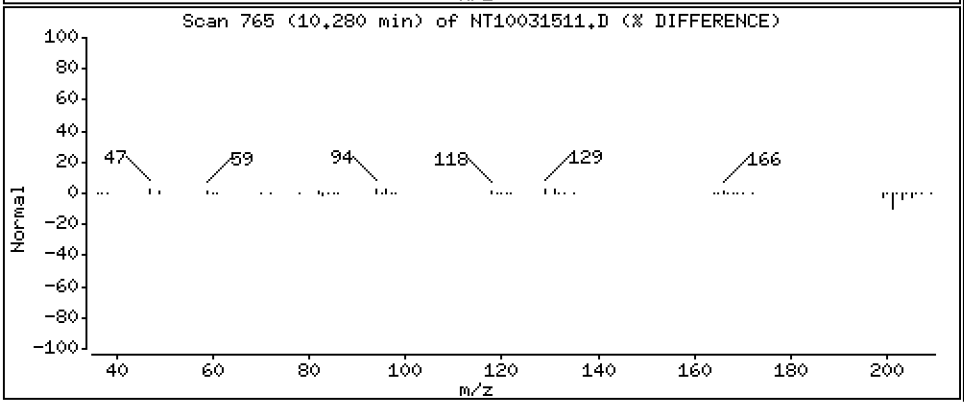












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

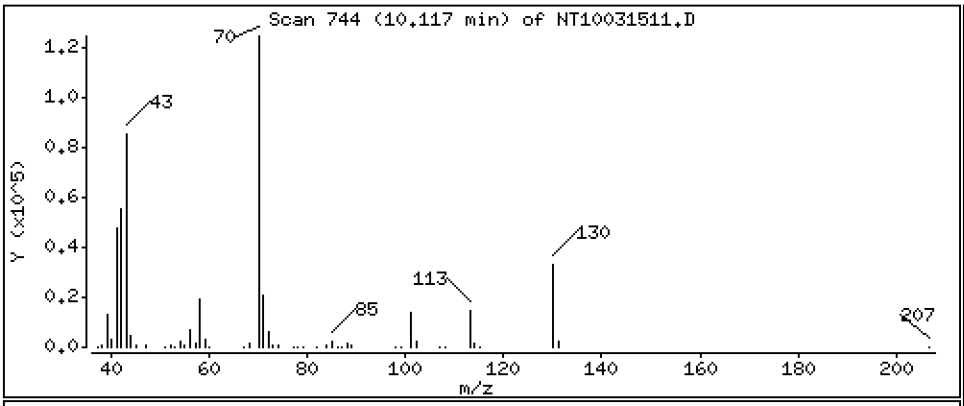
Operator: VTS

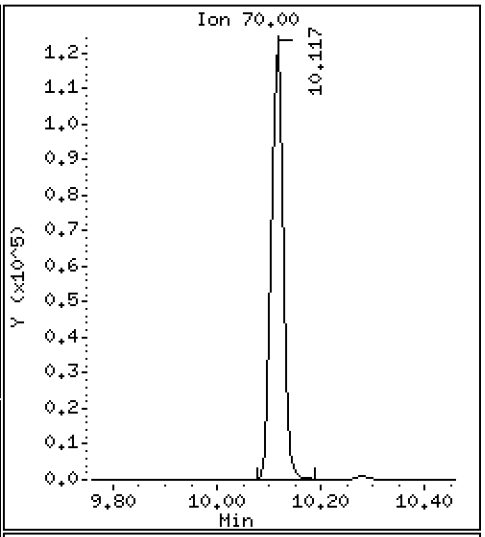
Column phase: ZB-5msi

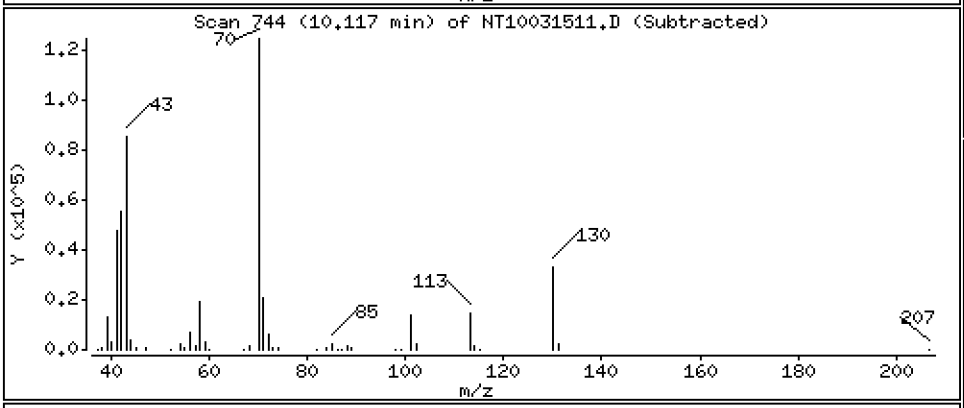
Column diameter: 0.25

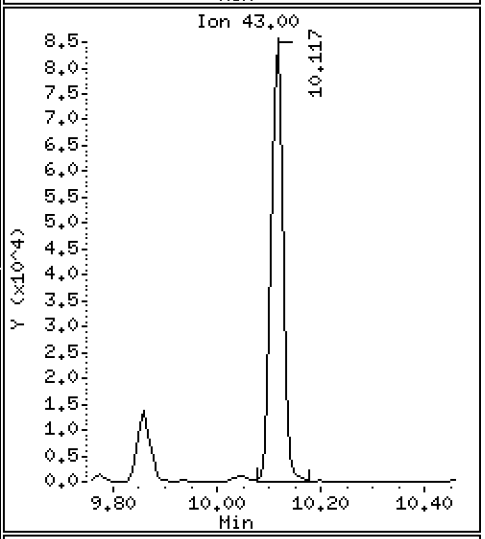
16 N-Nitroso-di-n-propylamine

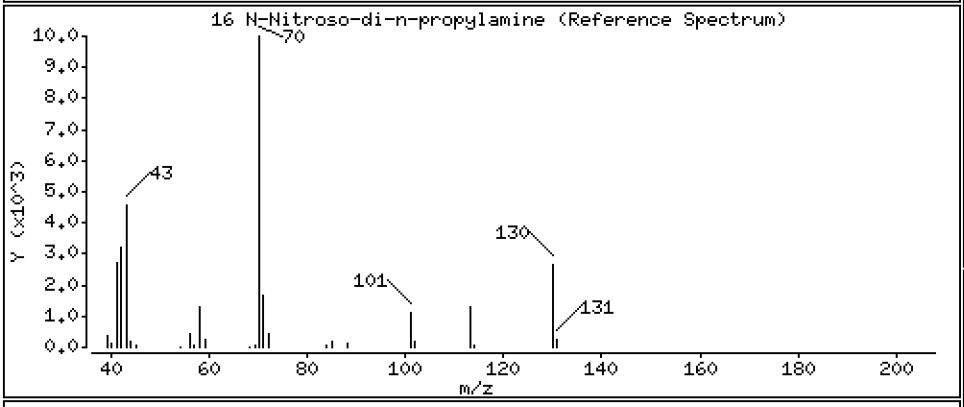
Concentration: 5.179 ug/mL

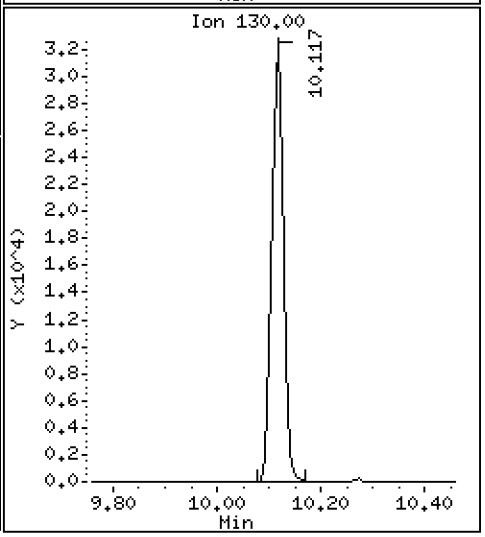


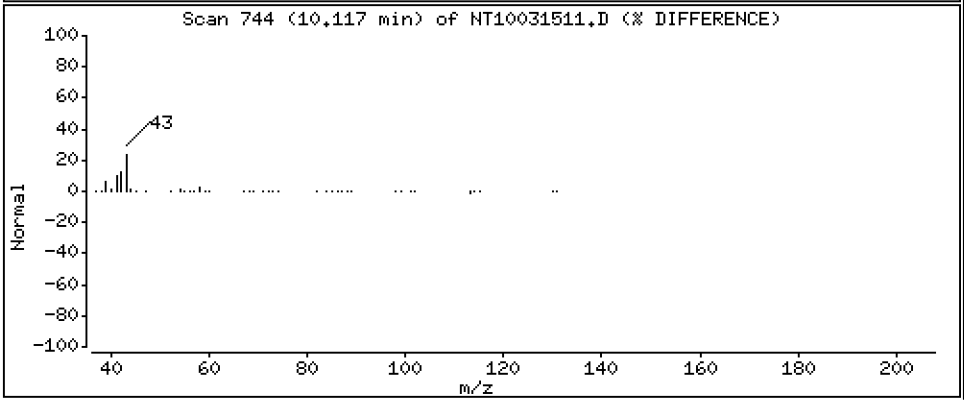












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

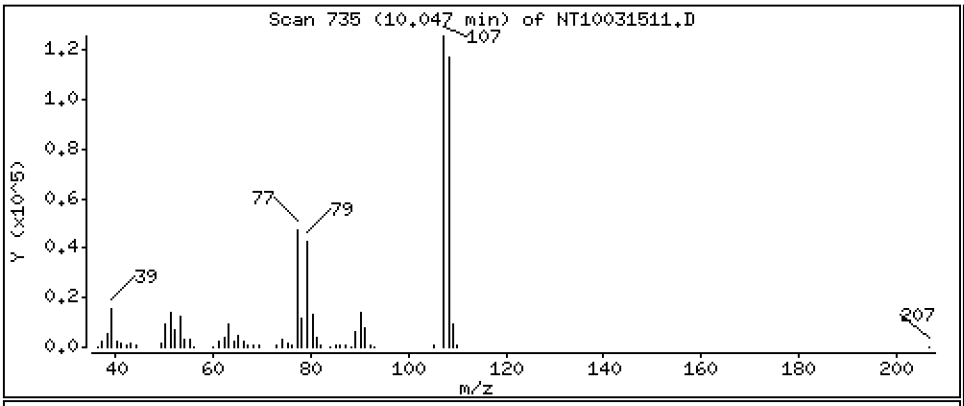
Operator: VTS

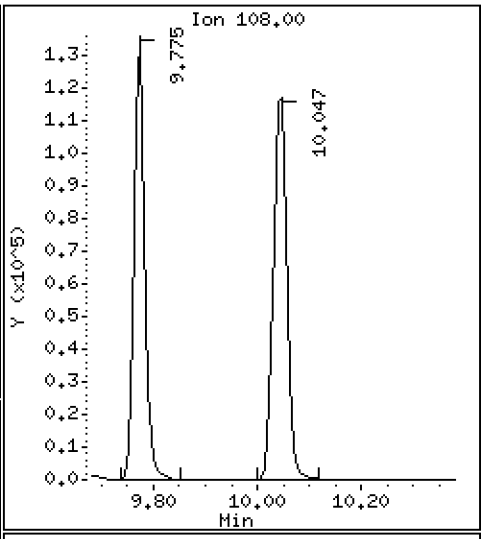
Column phase: ZB-5msi

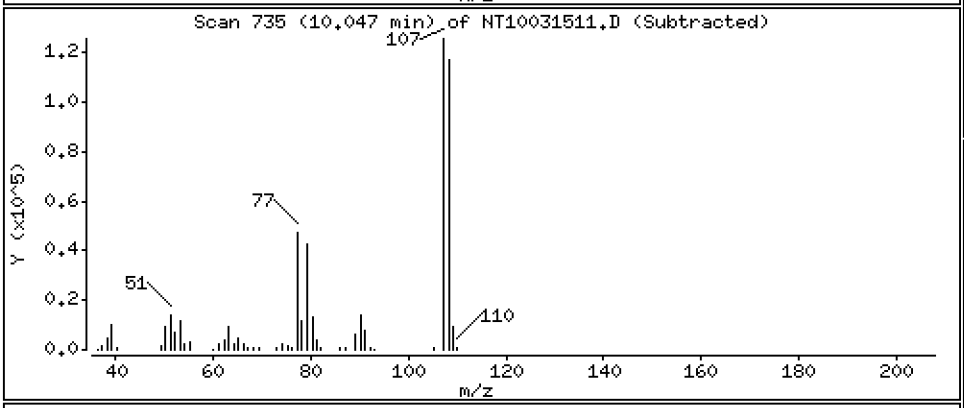
Column diameter: 0.25

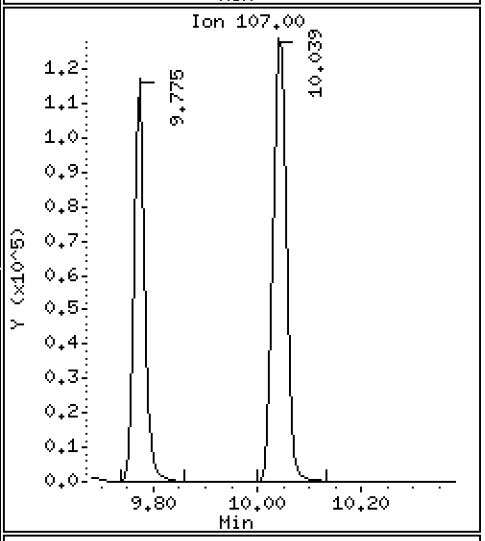
15 4-Methylphenol

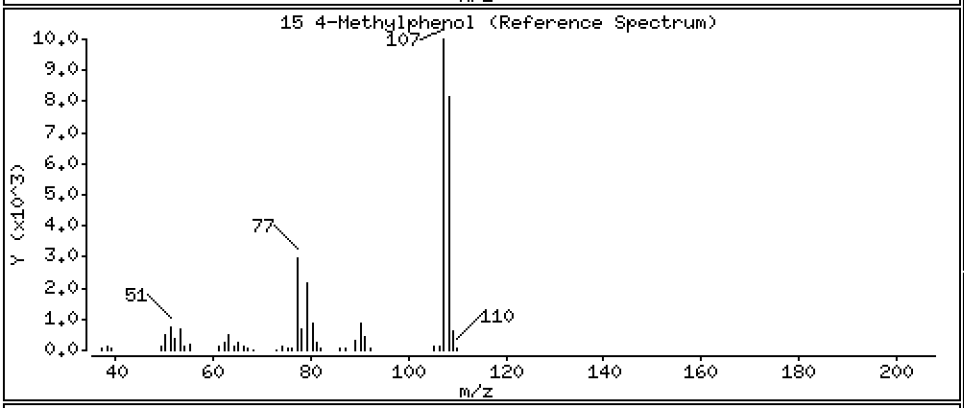
Concentration: 4.365 ug/mL

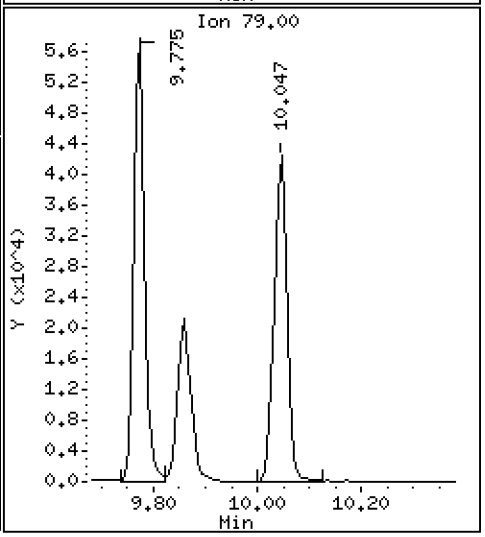


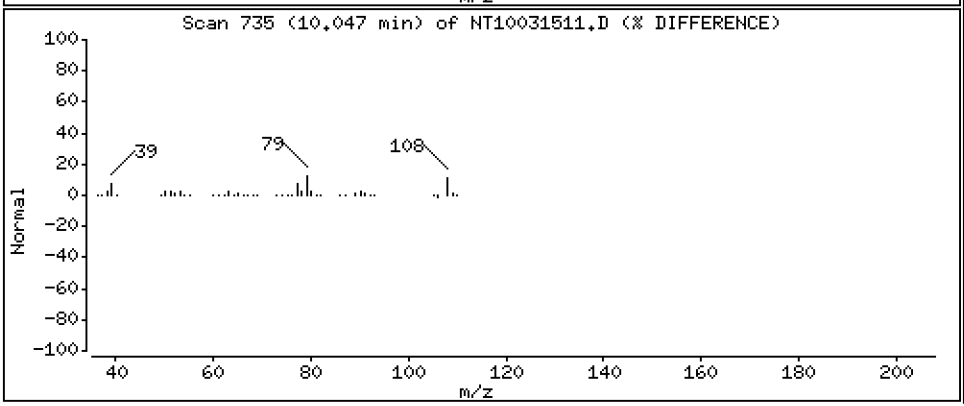












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

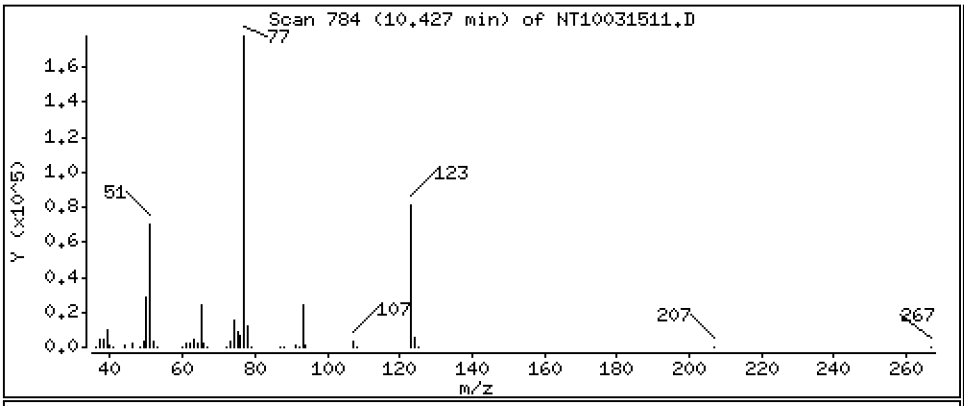
Operator: VTS

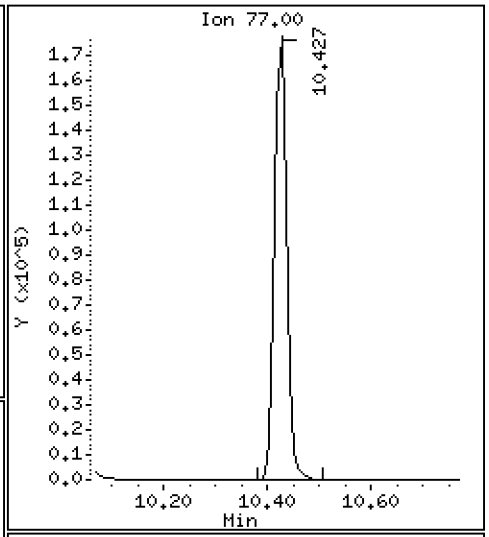
Column phase: ZB-5msi

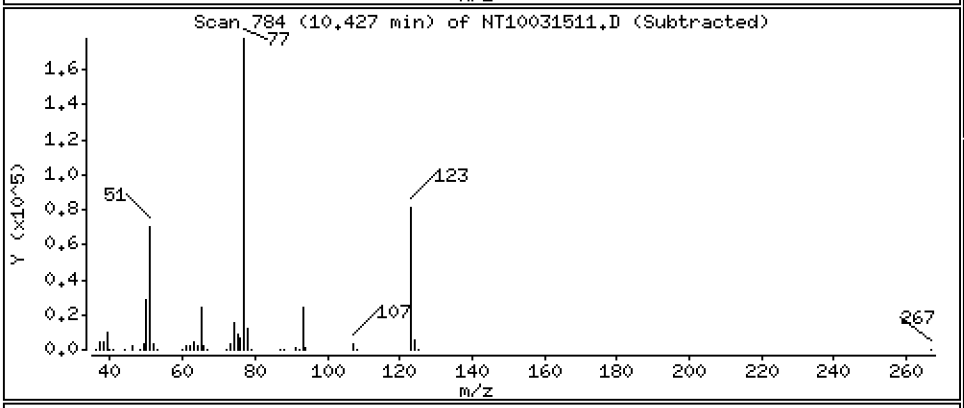
Column diameter: 0.25

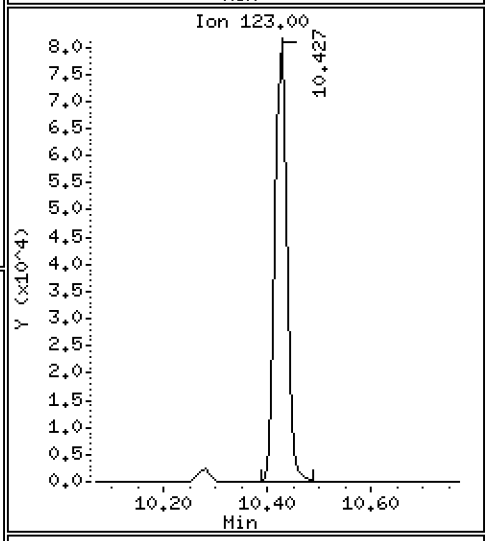
19 Nitrobenzene

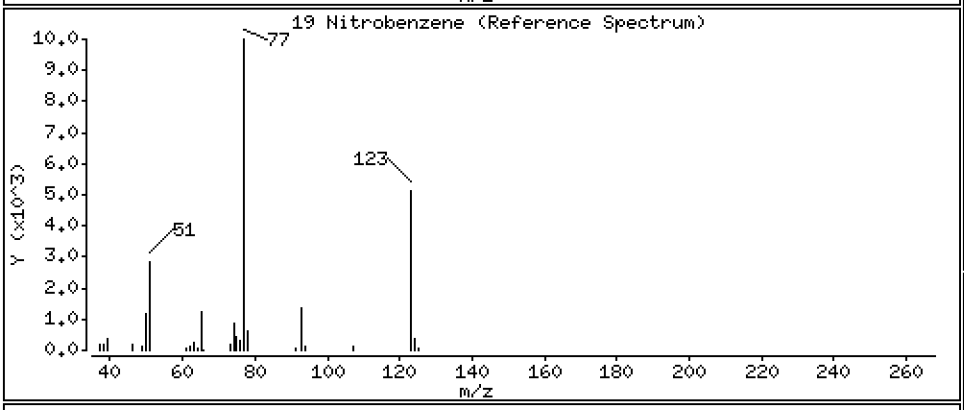
Concentration: 4.858 ug/mL

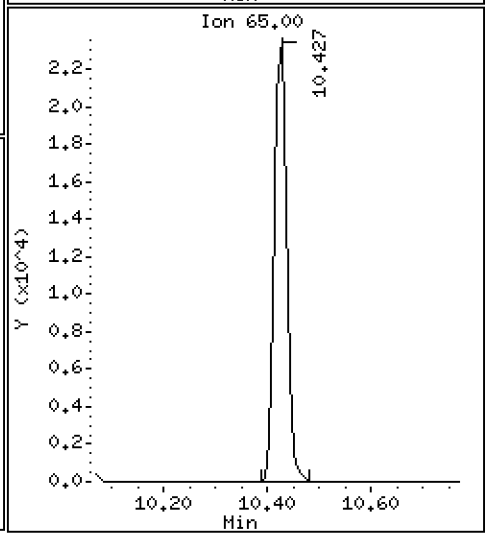


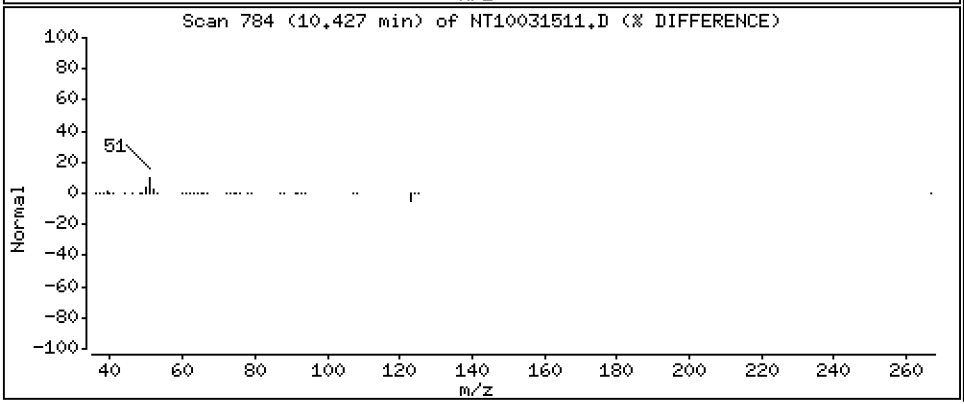












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

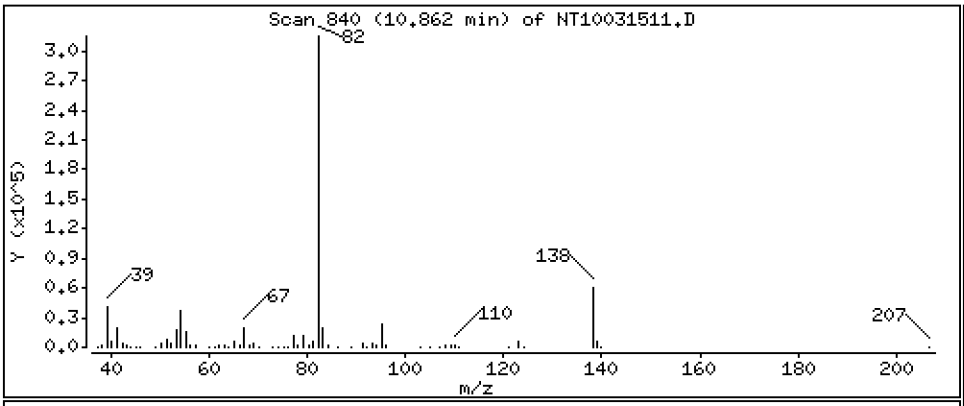
Operator: VTS

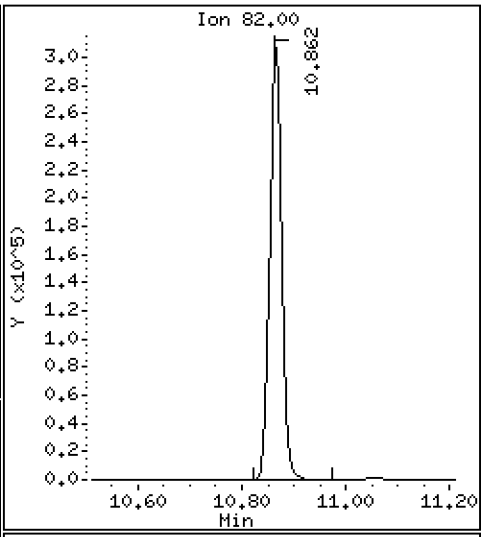
Column phase: ZB-5msi

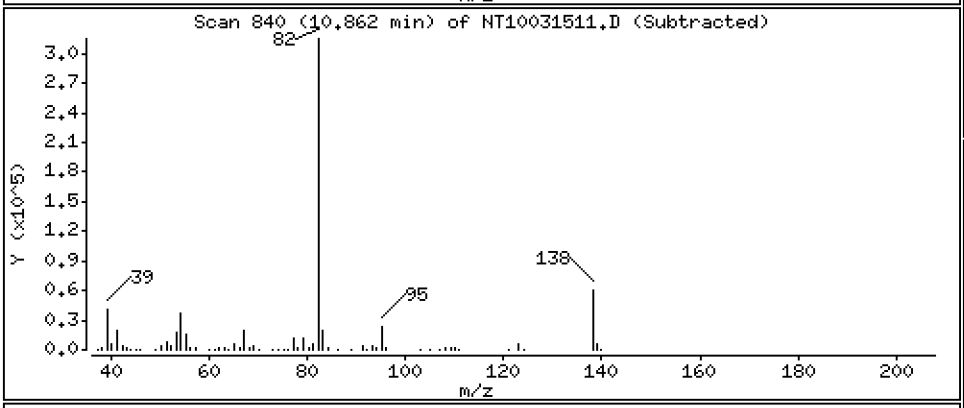
Column diameter: 0.25

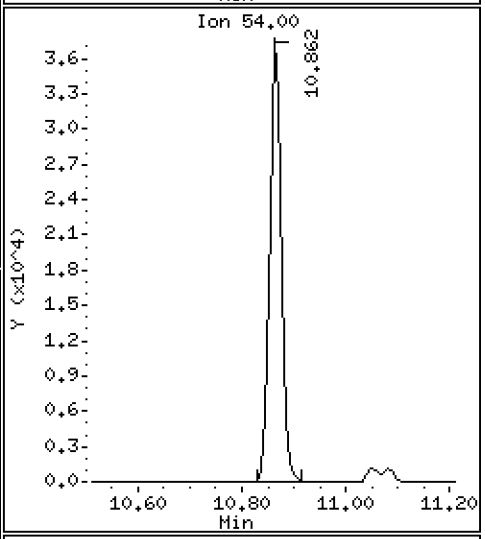
20 Isophorone

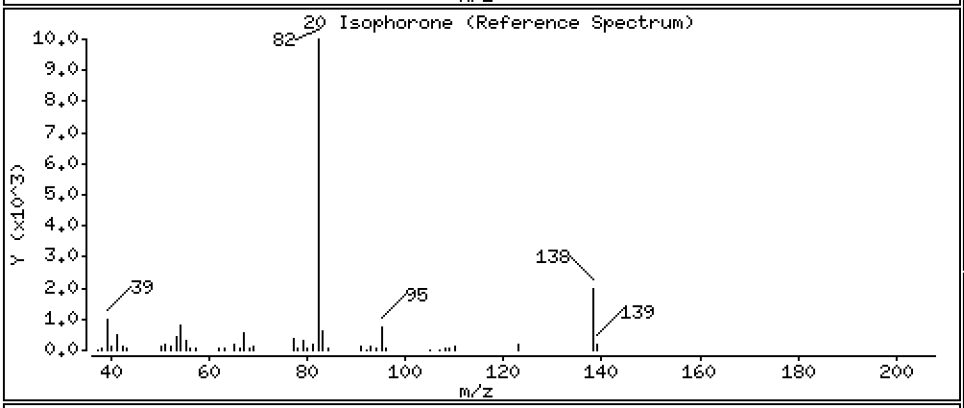
Concentration: 7.696 ug/mL

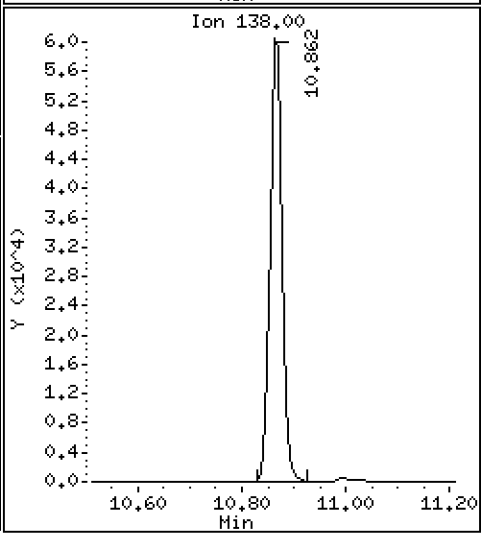


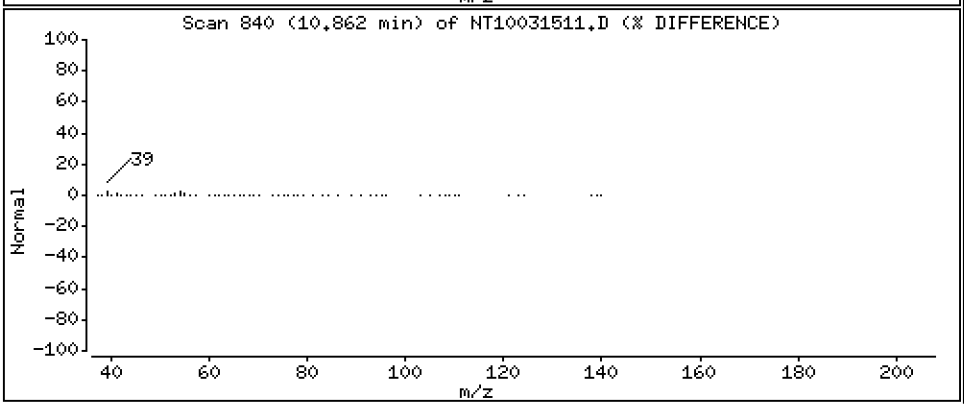












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

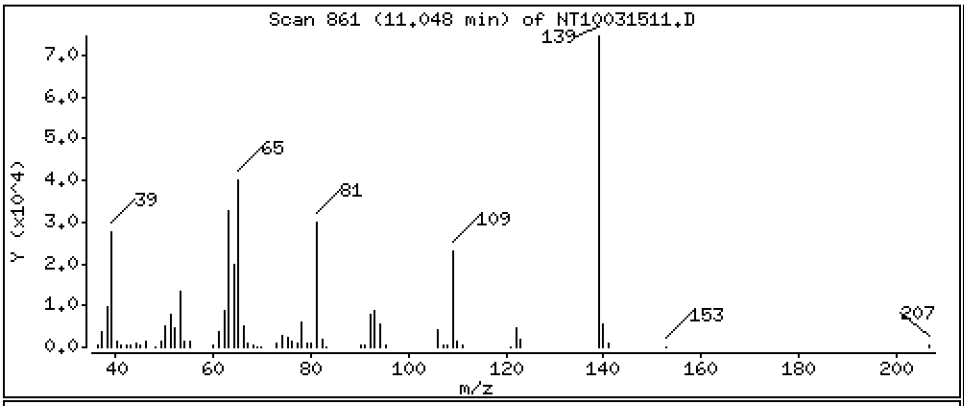
Operator: VTS

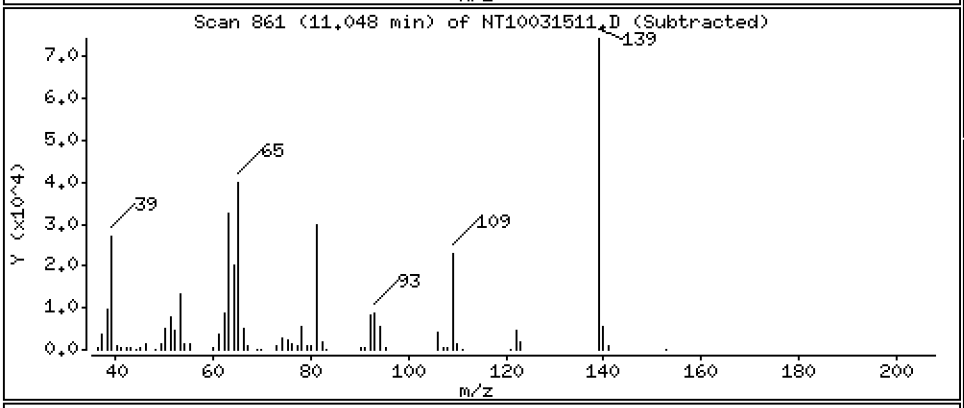
Column phase: ZB-5msi

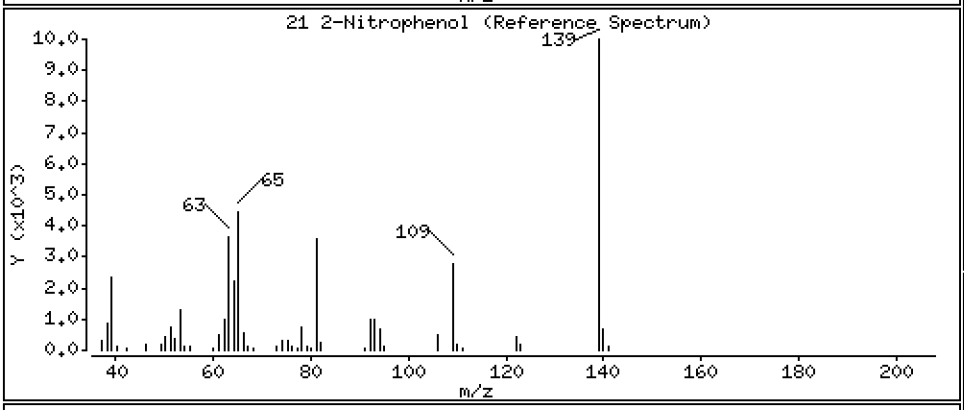
Column diameter: 0.25

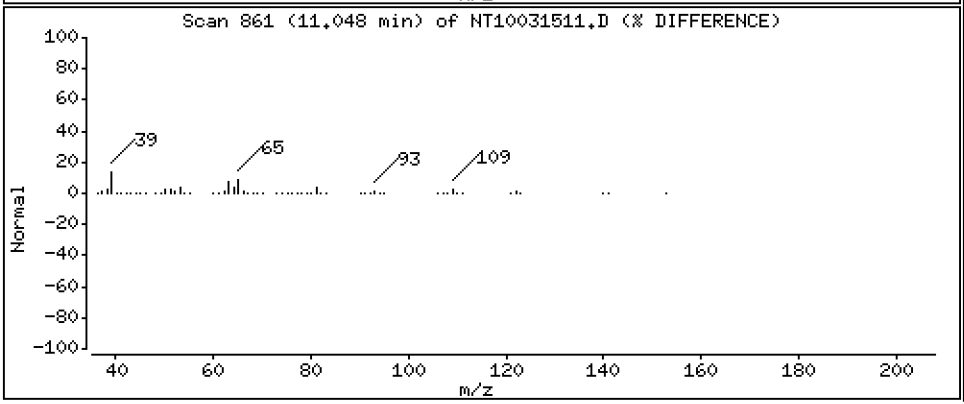
21 2-Nitrophenol

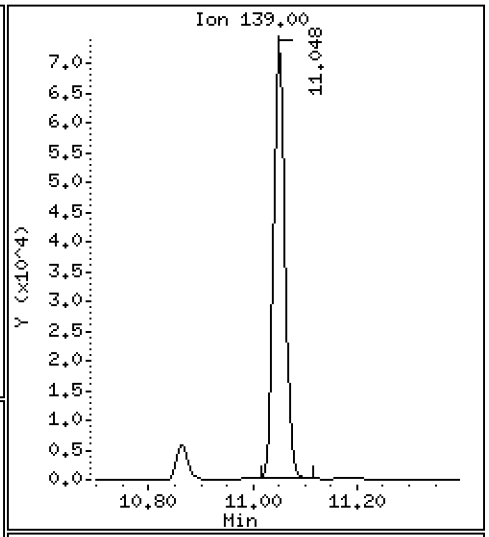
Concentration: 3.995 ug/mL

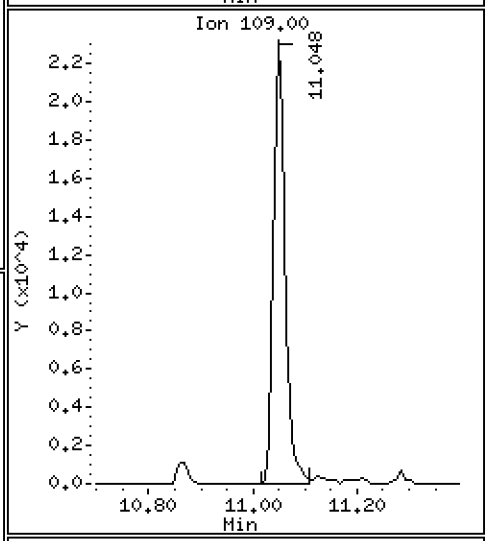


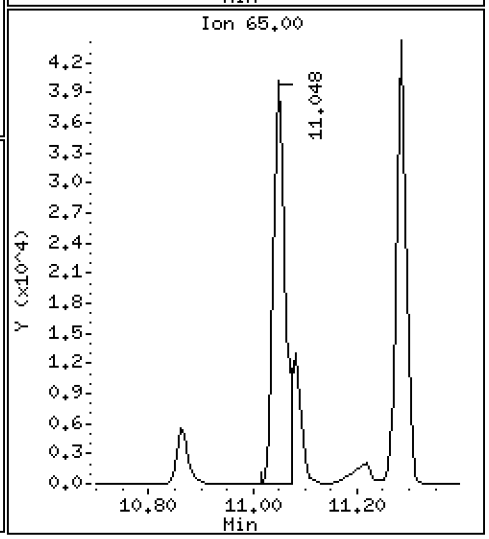












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

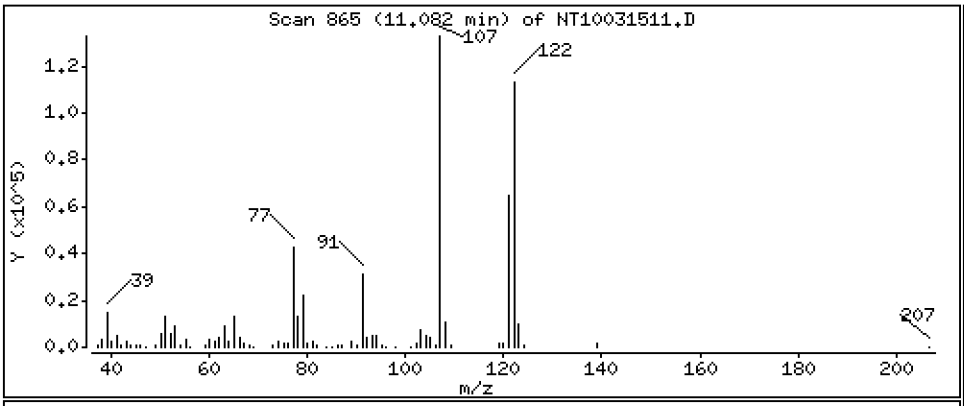
Operator: VTS

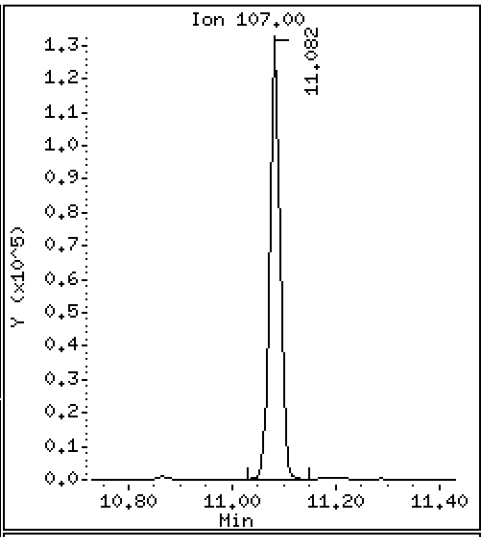
Column phase: ZB-5msi

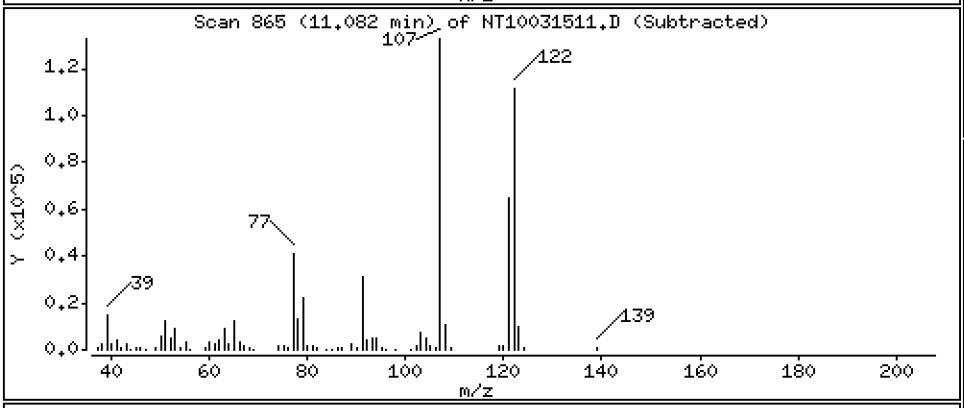
Column diameter: 0.25

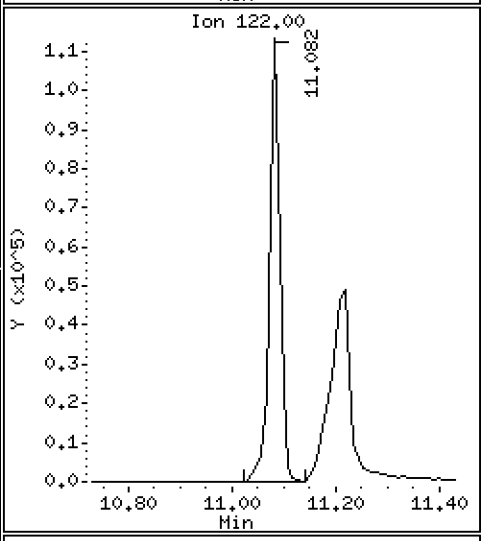
22 2,4-Dimethylphenol

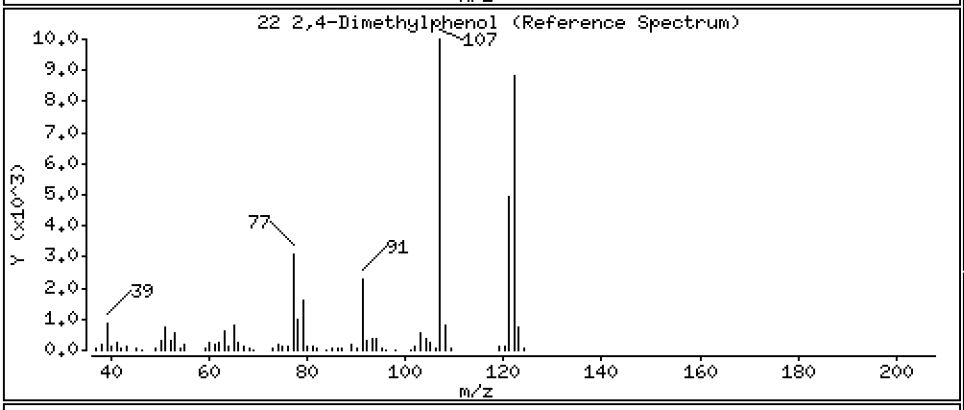
Concentration: 3.632 ug/mL

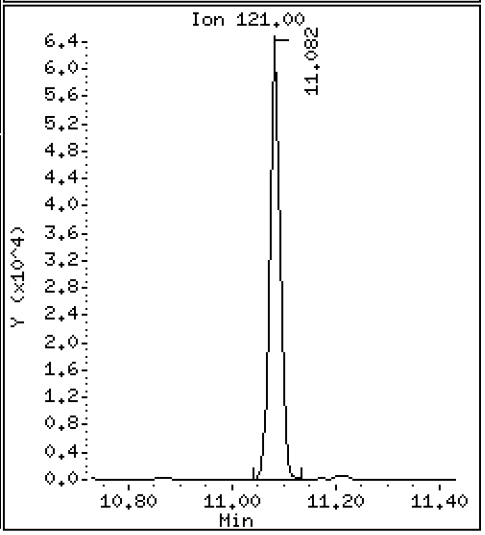


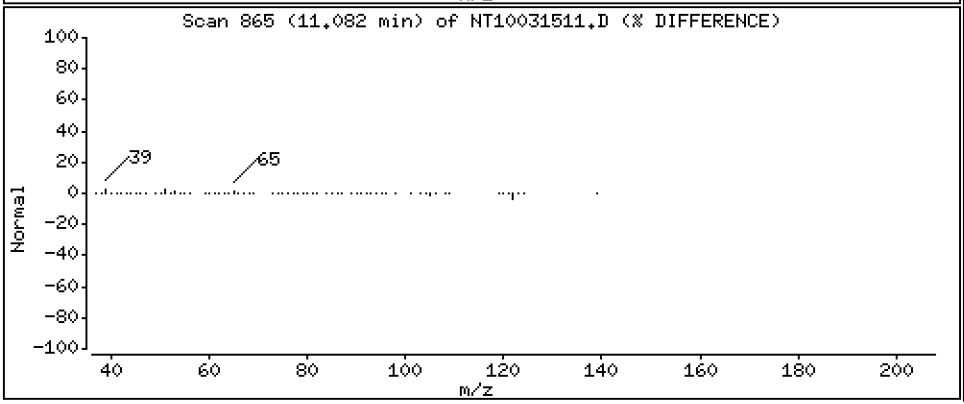












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

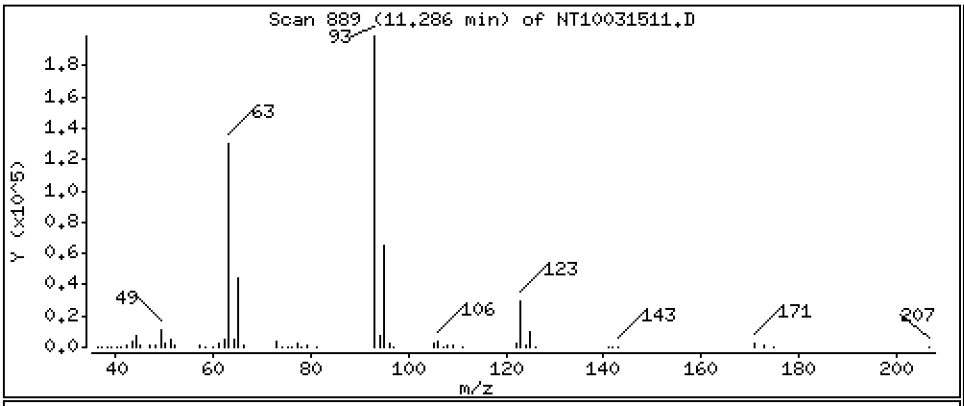
Operator: VTS

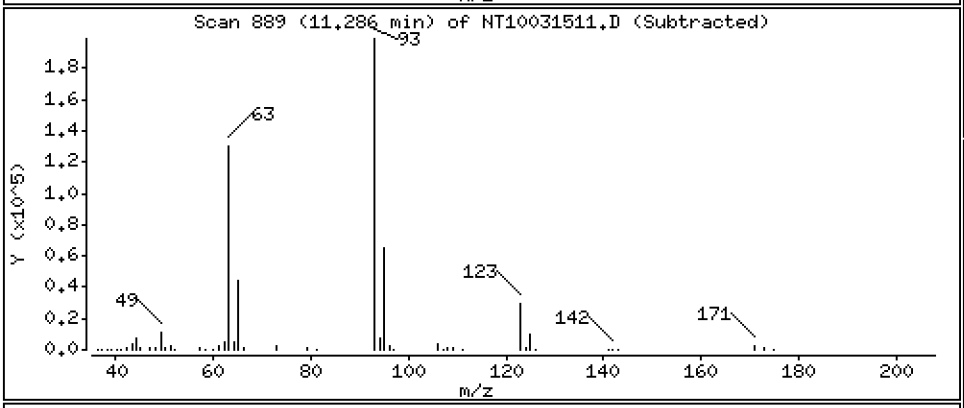
Column phase: ZB-5msi

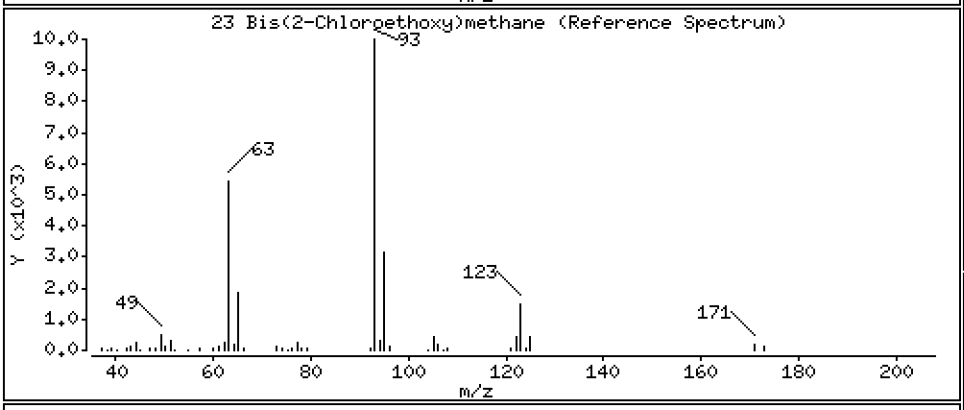
Column diameter: 0.25

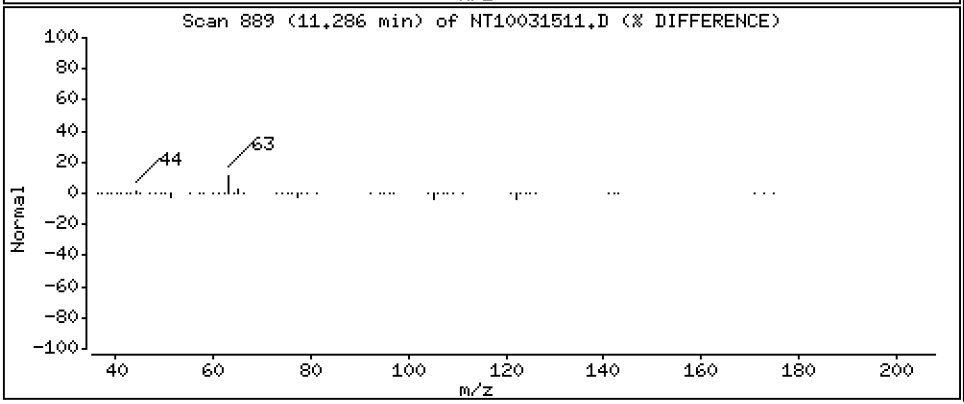
23 Bis(2-Chloroethoxy)methane

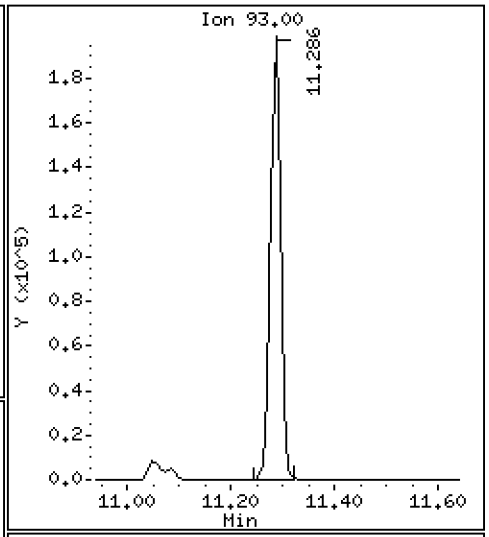
Concentration: 5.654 ug/mL

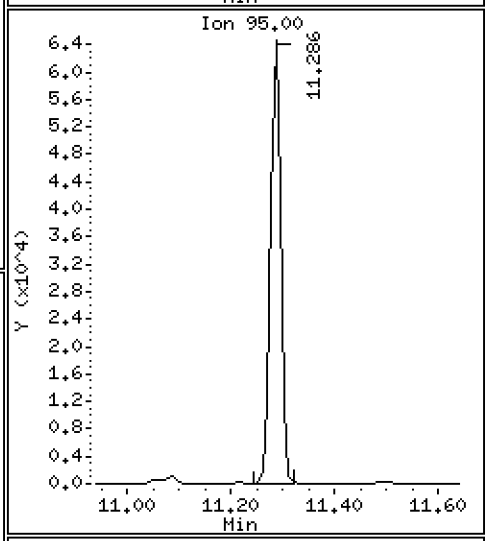


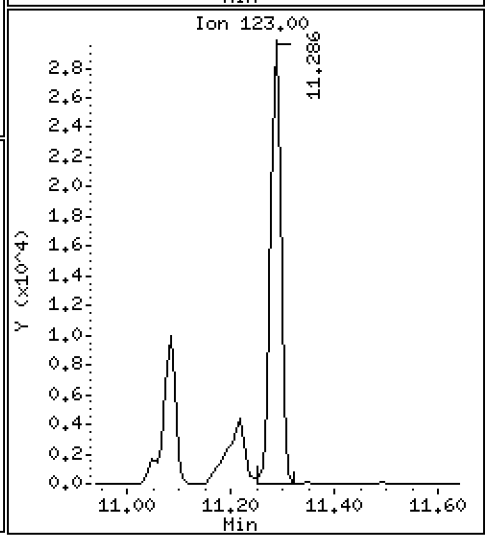












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

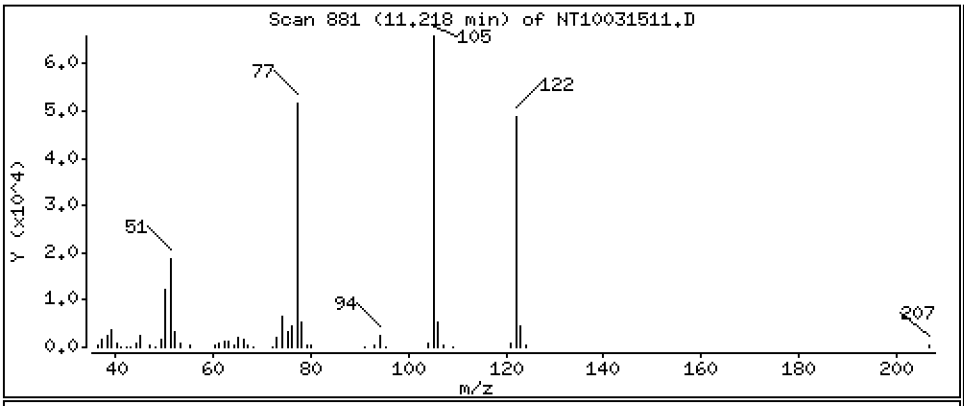
Operator: VTS

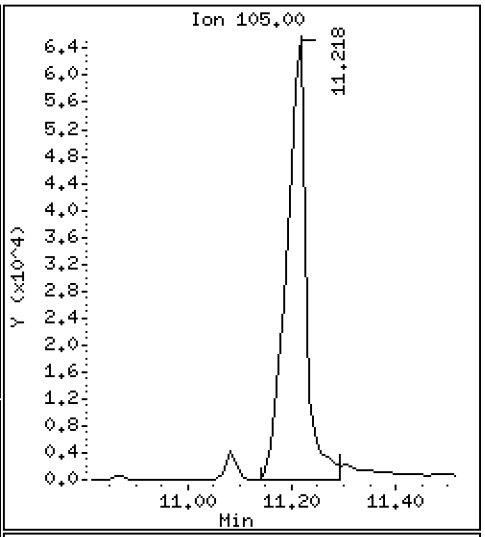
Column phase: ZB-5msi

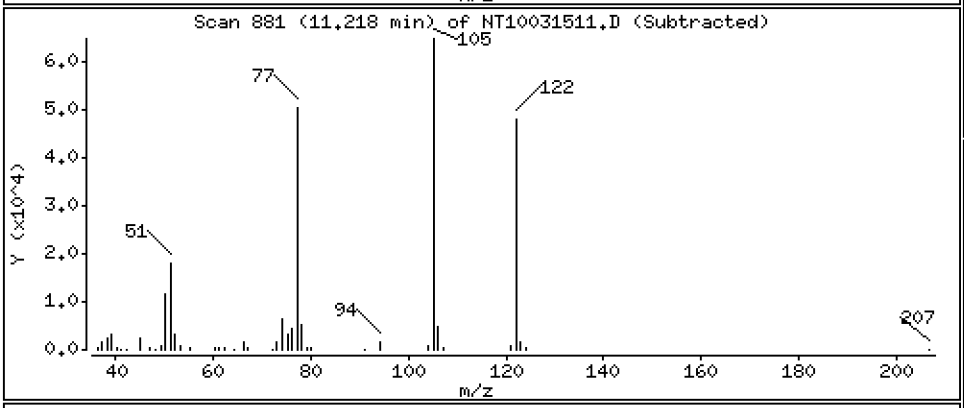
Column diameter: 0.25

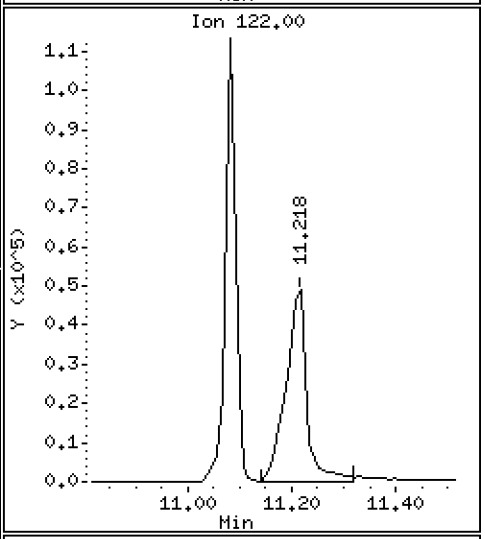
24 Benzoic acid

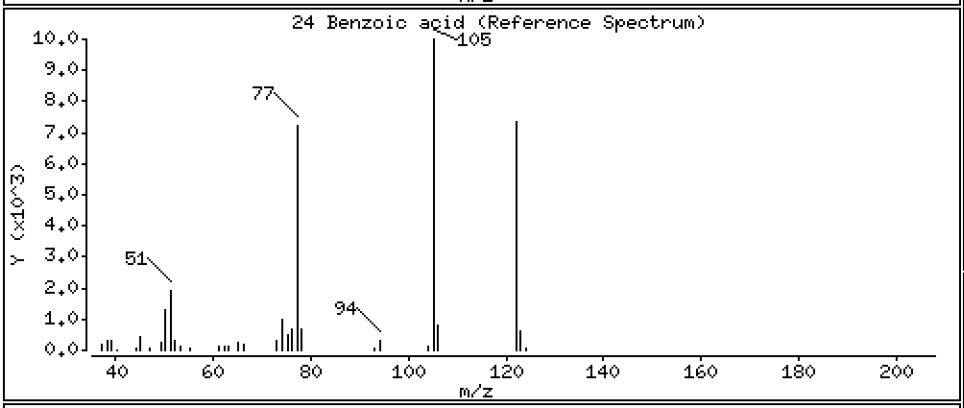
Concentration: 5.952 ug/mL

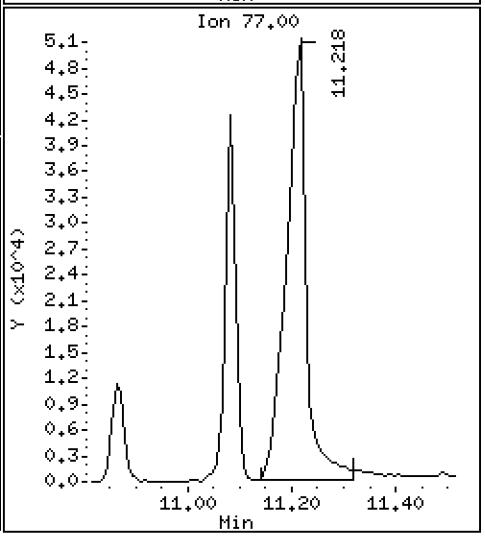


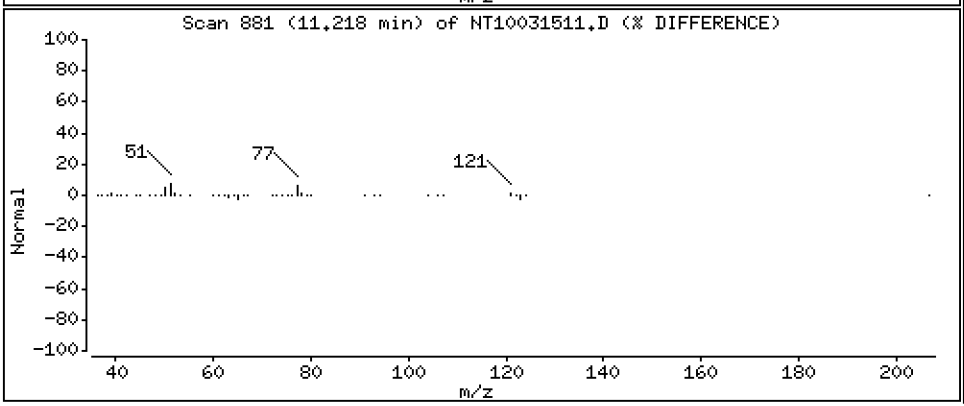












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

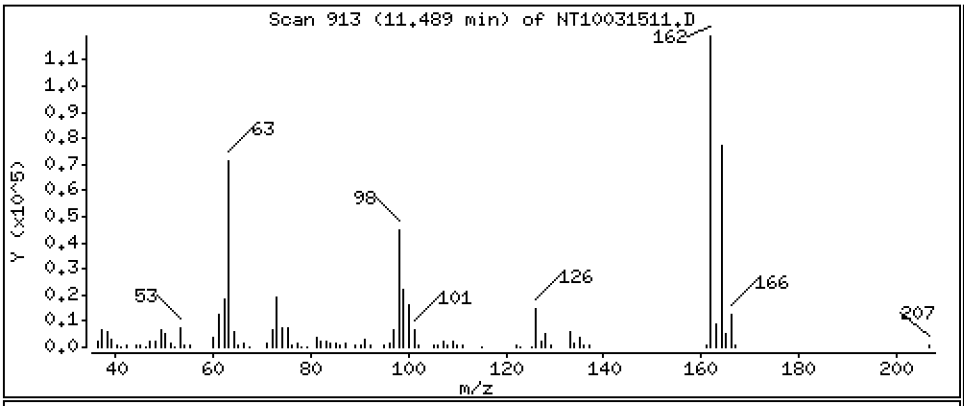
Operator: VTS

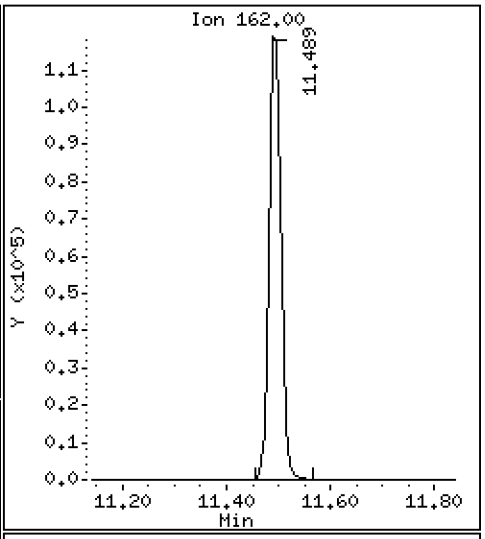
Column phase: ZB-5msi

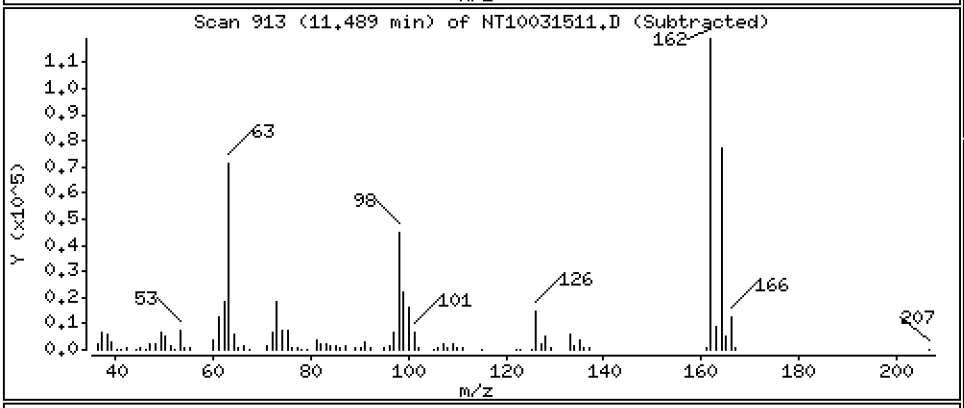
Column diameter: 0.25

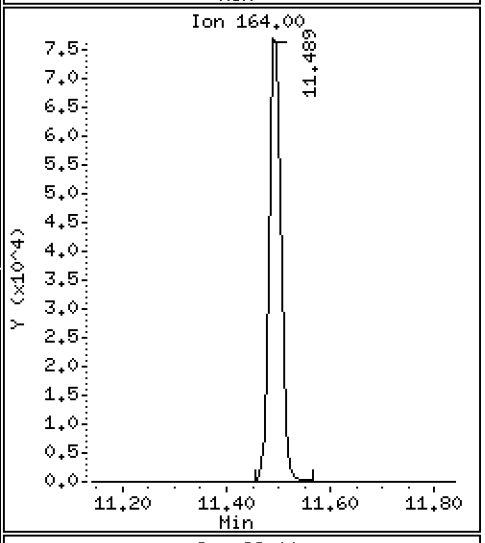
25 2,4-Dichlorophenol

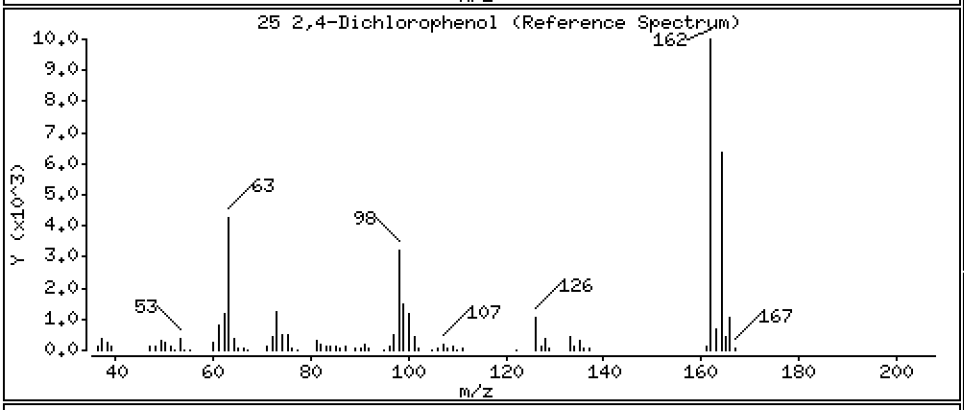
Concentration: 4.703 ug/mL

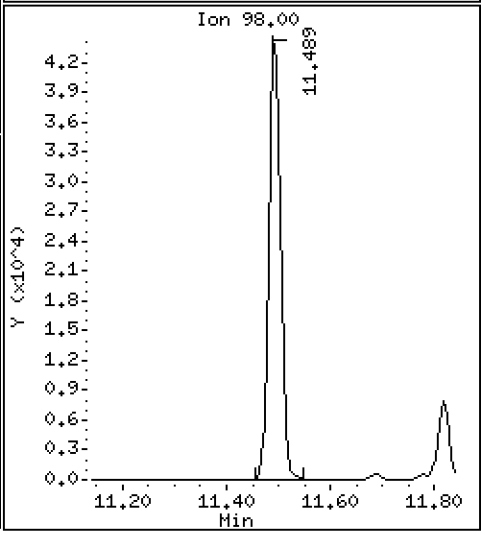


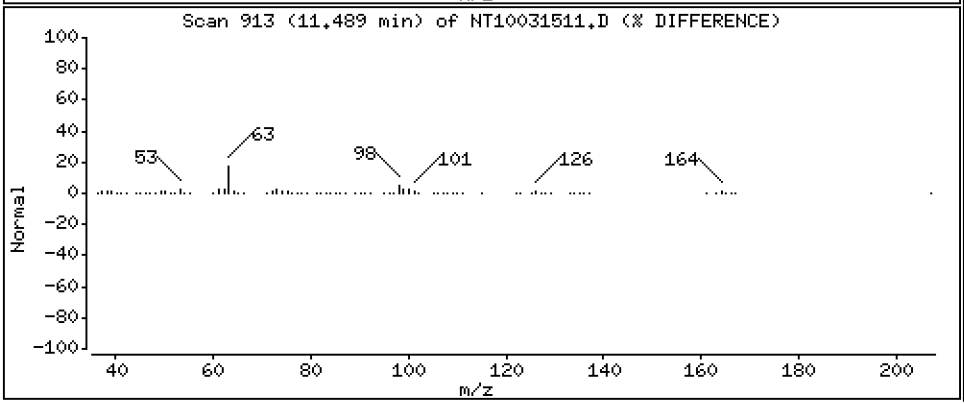












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

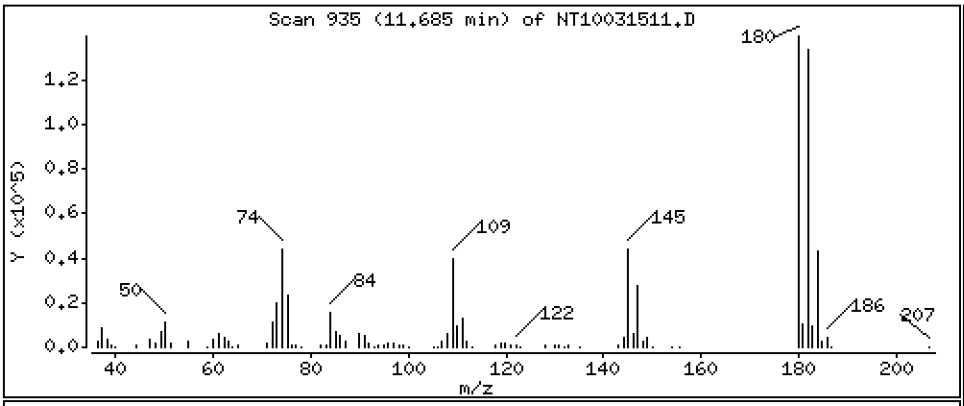
Operator: VTS

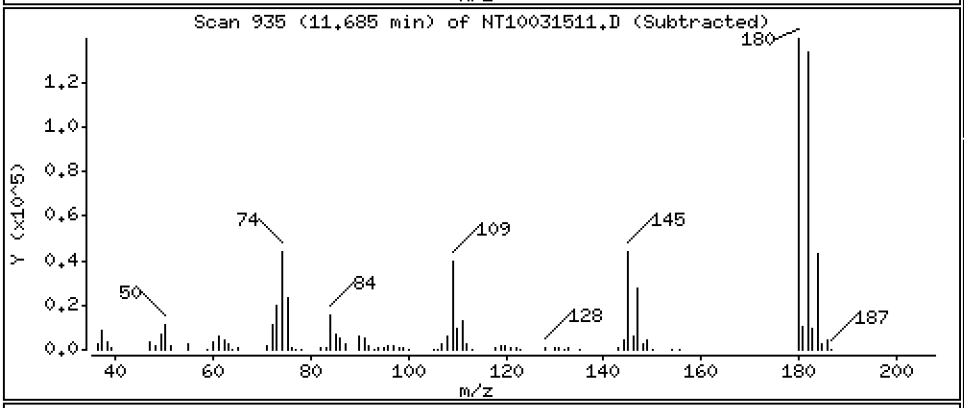
Column phase: ZB-5msi

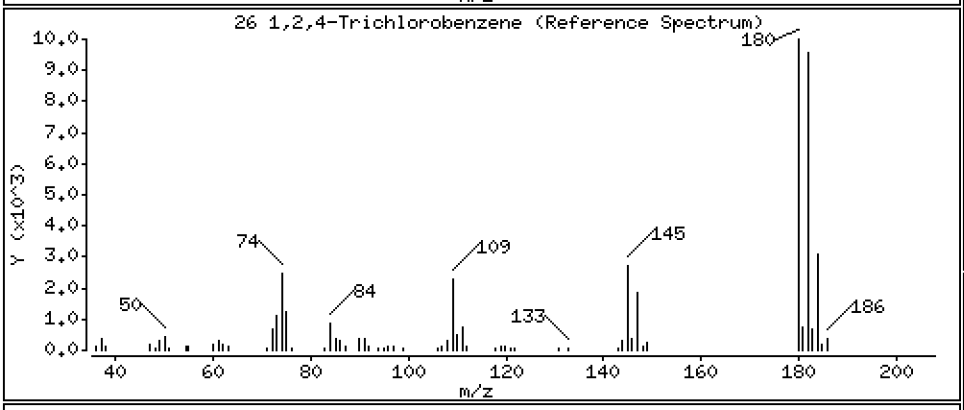
Column diameter: 0.25

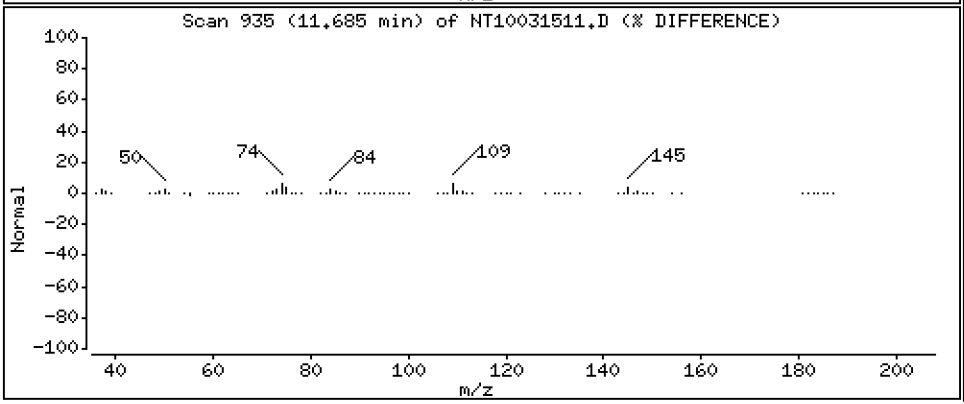
26 1,2,4-Trichlorobenzene

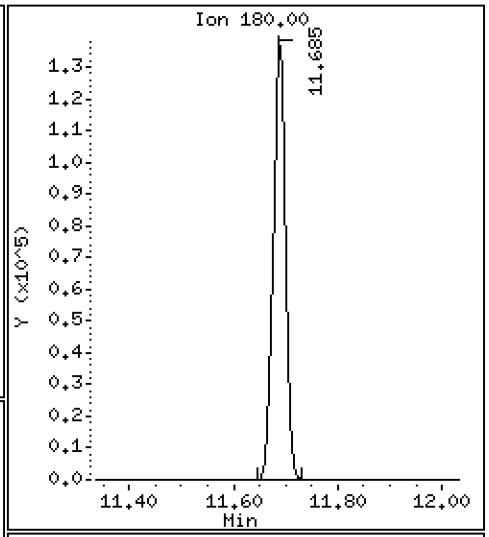
Concentration: 4.554 ug/mL

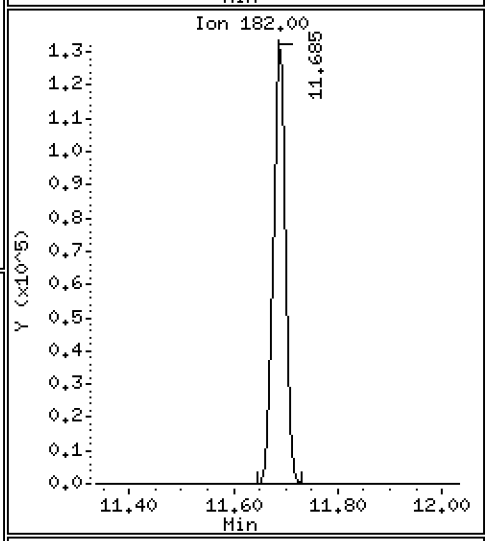


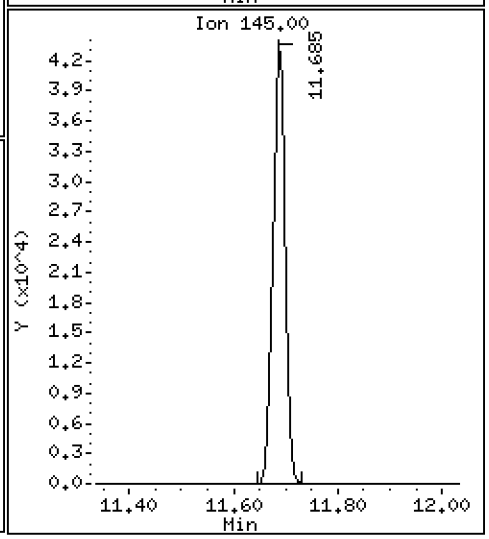












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

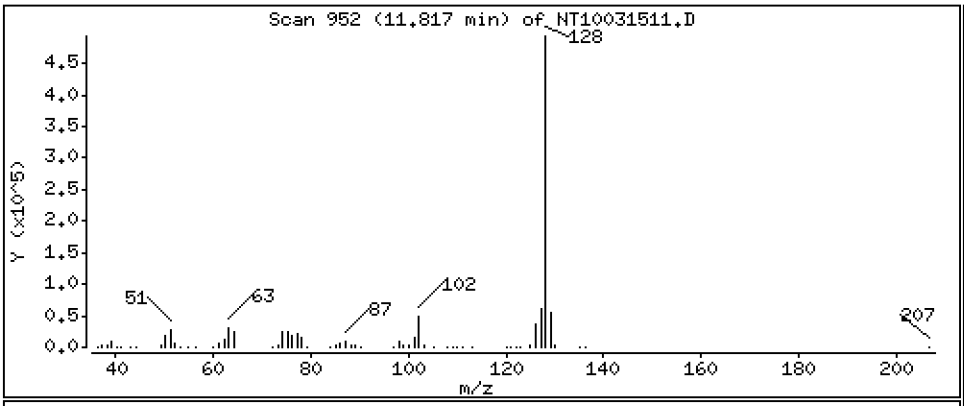
Operator: VTS

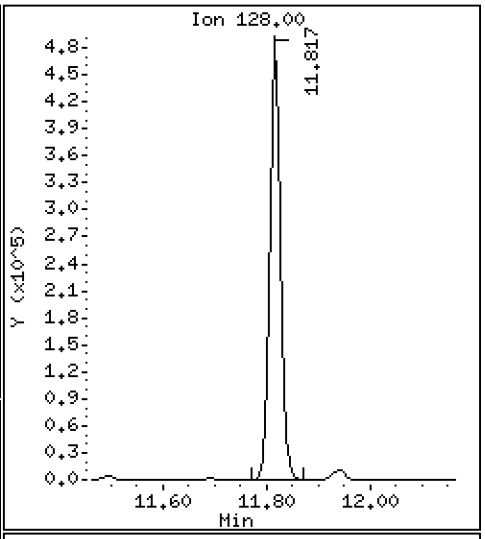
Column phase: ZB-5msi

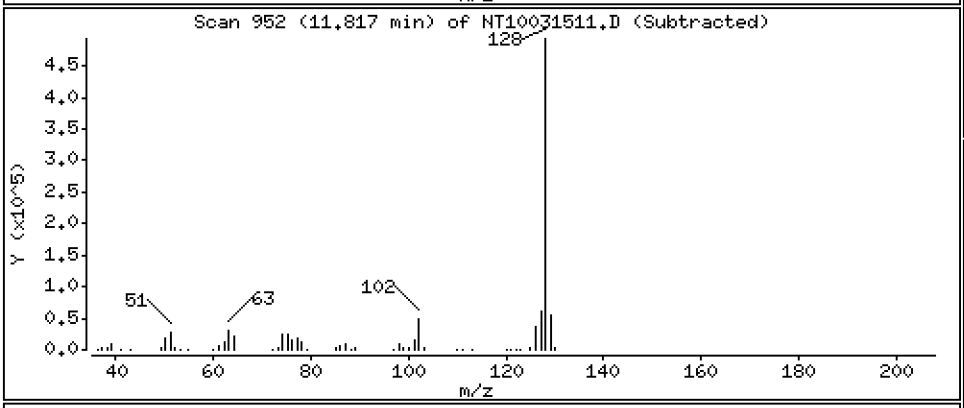
Column diameter: 0.25

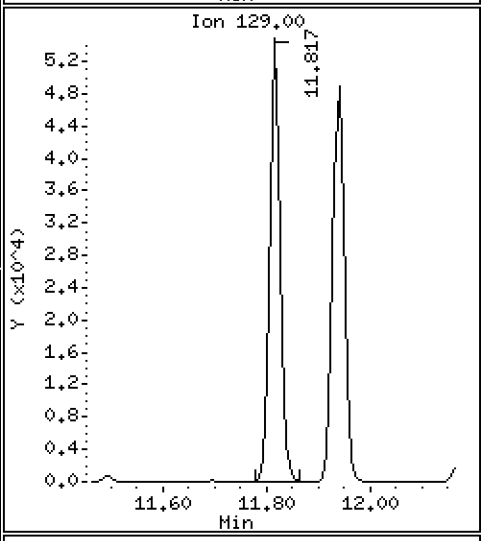
28 Naphthalene

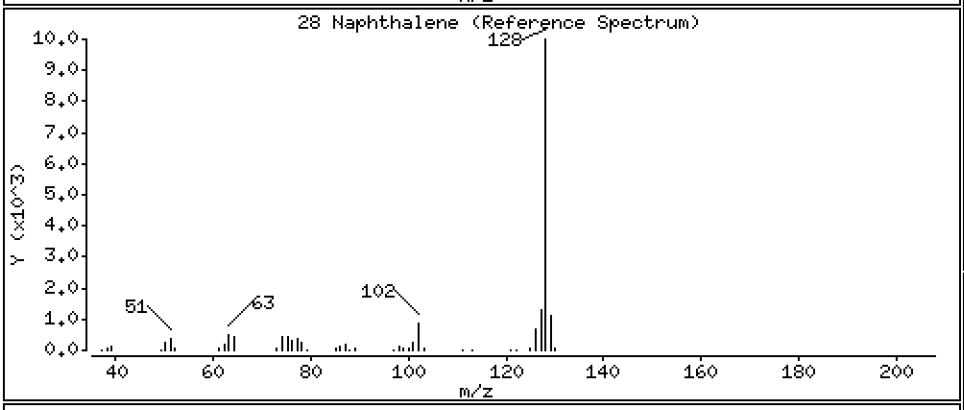
Concentration: 4.717 ug/mL

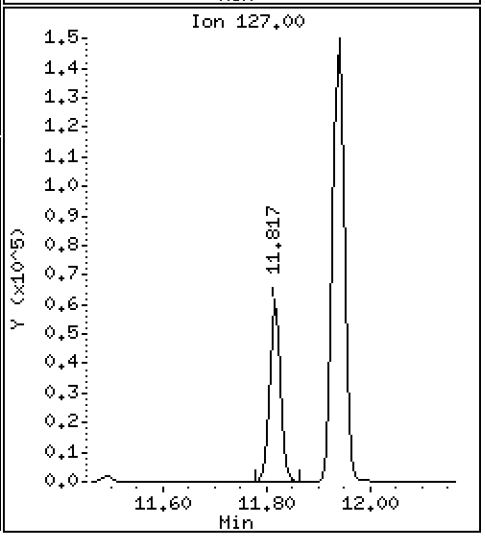


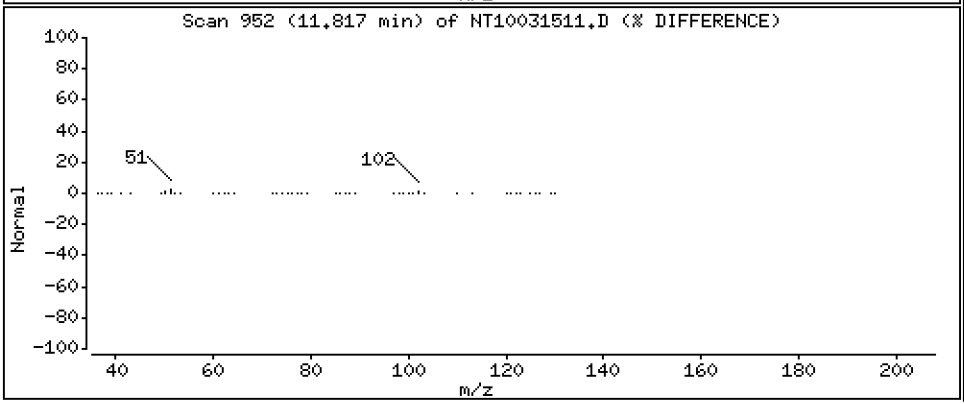












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

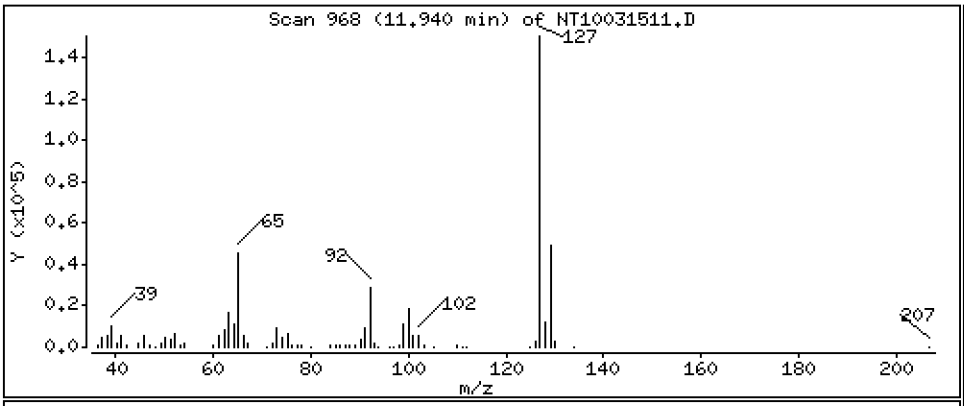
Operator: VTS

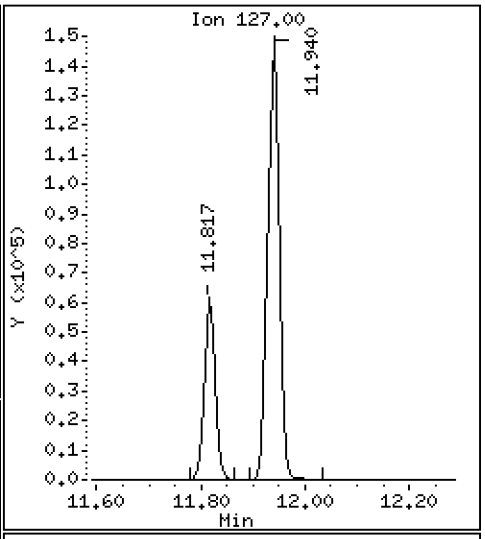
Column phase: ZB-5msi

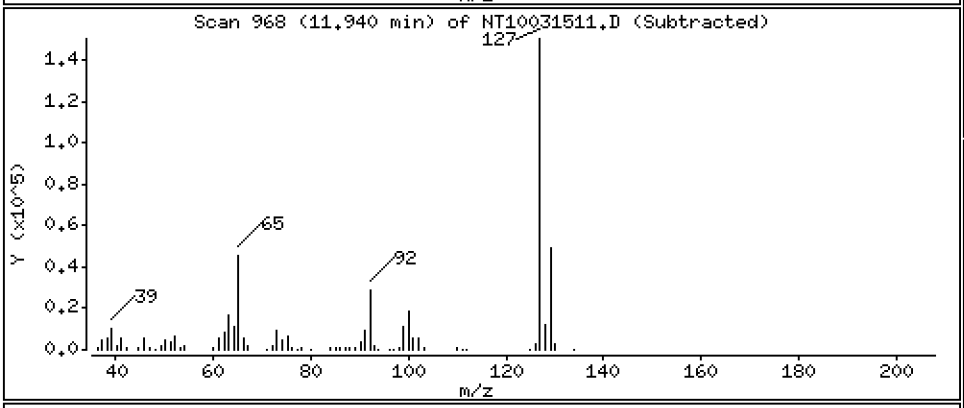
Column diameter: 0.25

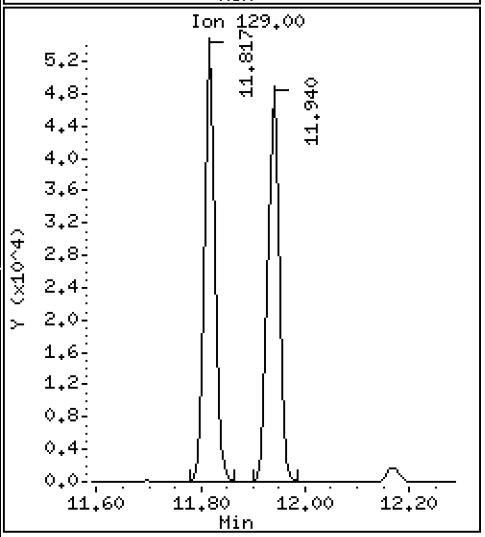
29 4-Chloroaniline

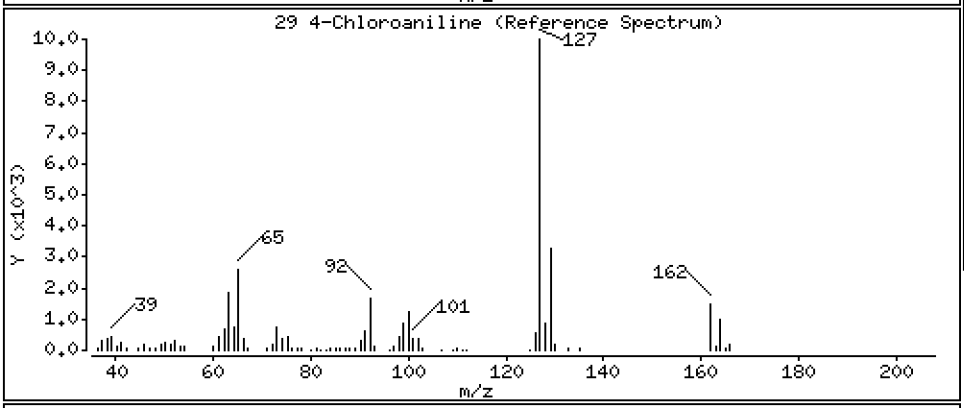
Concentration: 3.787 ug/mL

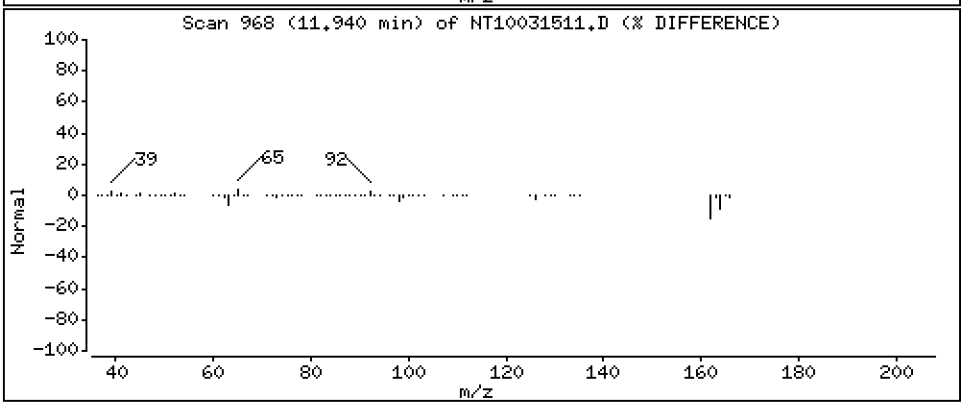












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

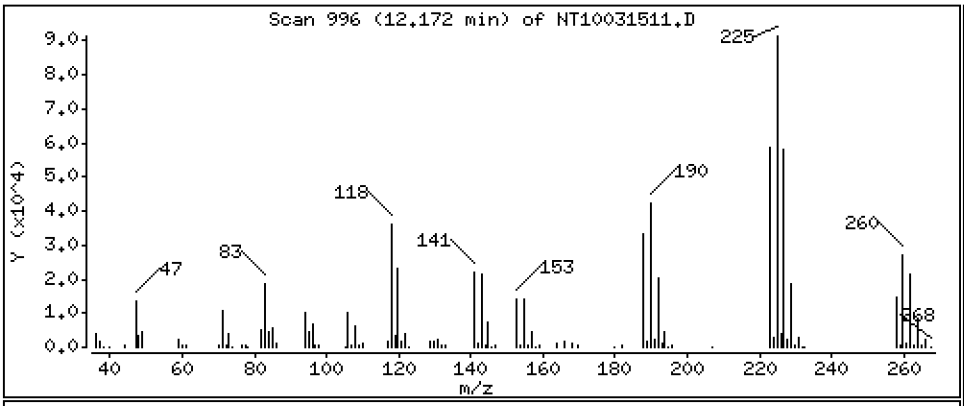
Operator: VTS

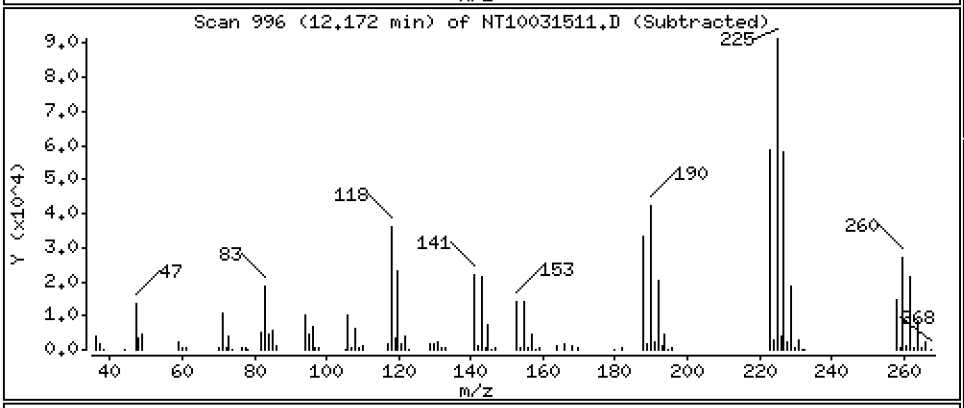
Column phase: ZB-5msi

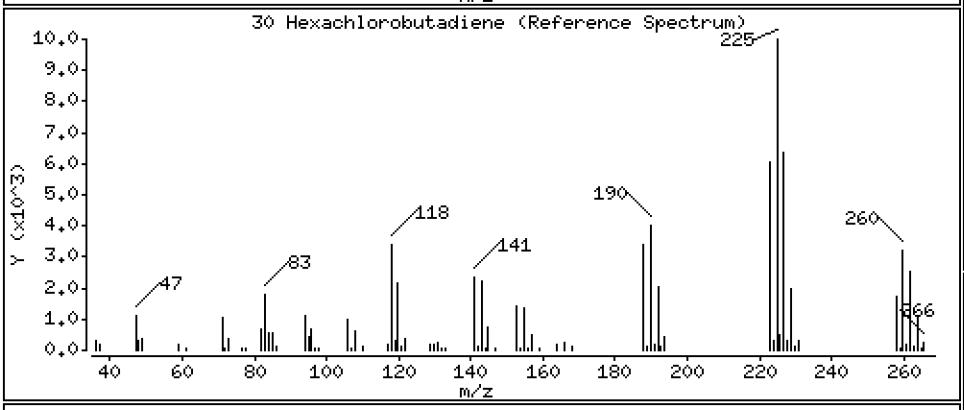
Column diameter: 0.25

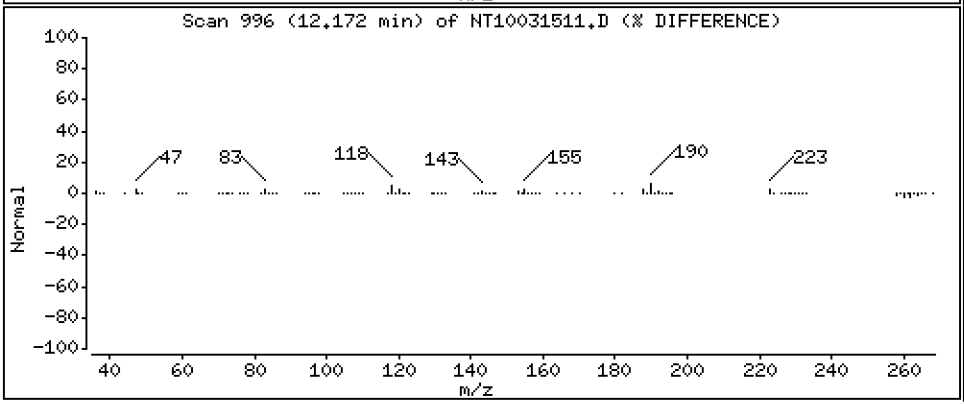
30 Hexachlorobutadiene

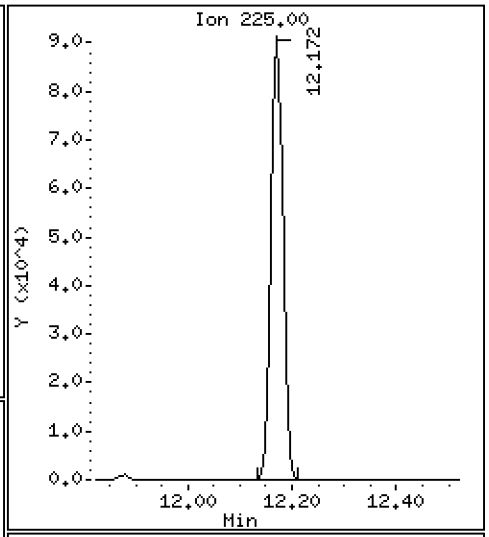
Concentration: 4.834 ug/mL

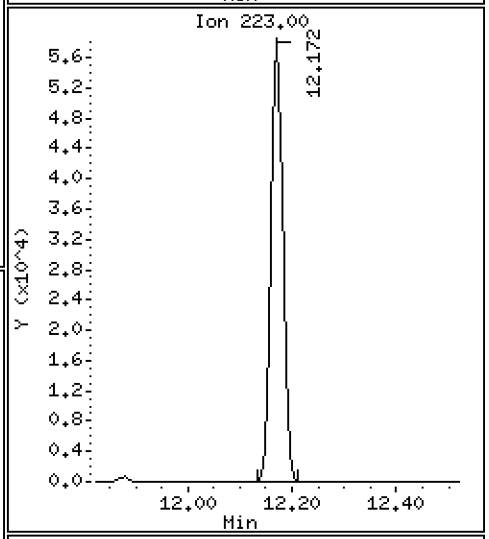


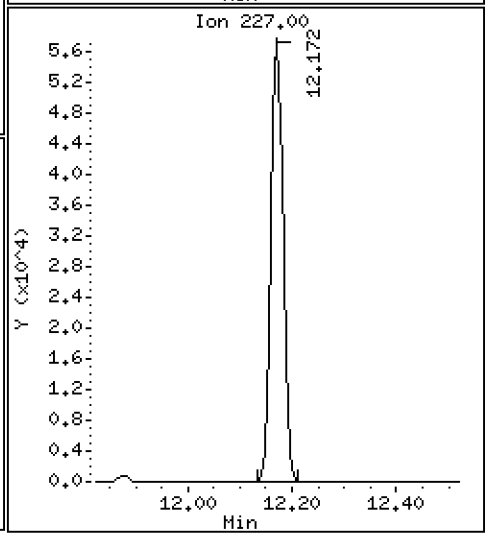












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

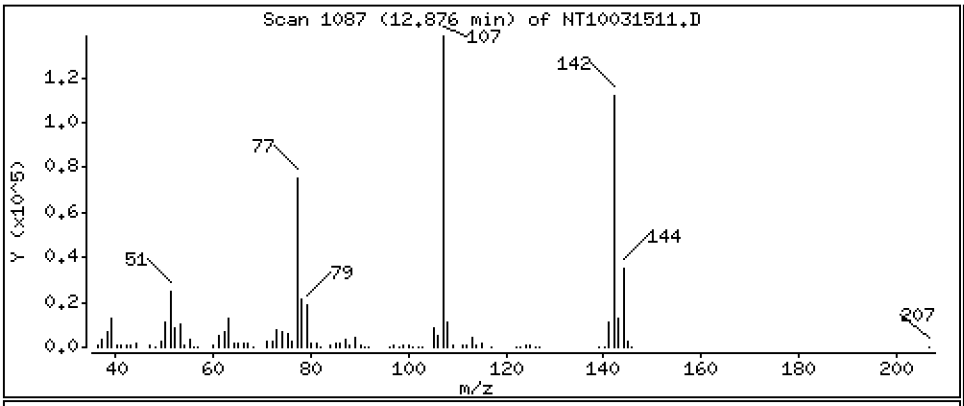
Operator: VTS

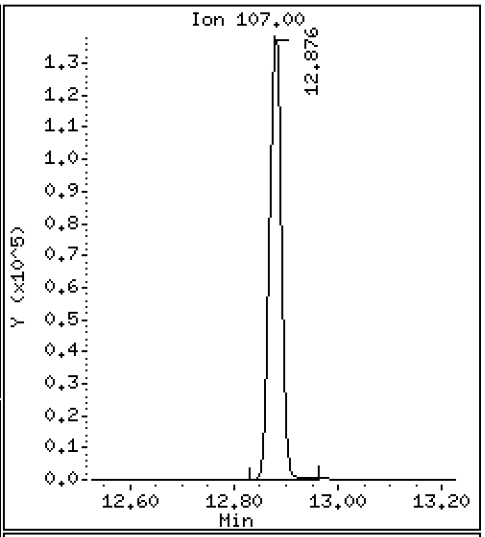
Column phase: ZB-5msi

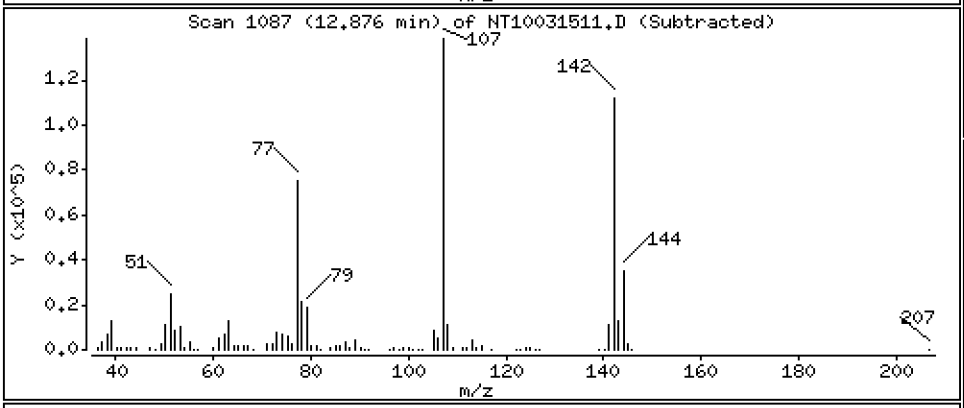
Column diameter: 0.25

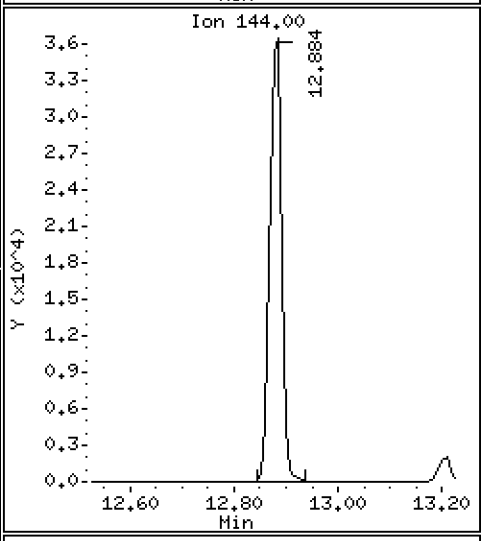
31 4-Chloro-3-methylphenol

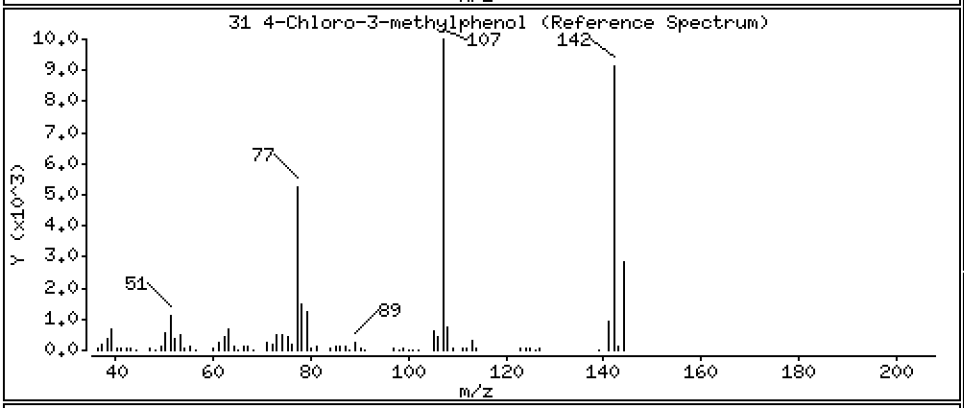
Concentration: 4.640 ug/mL

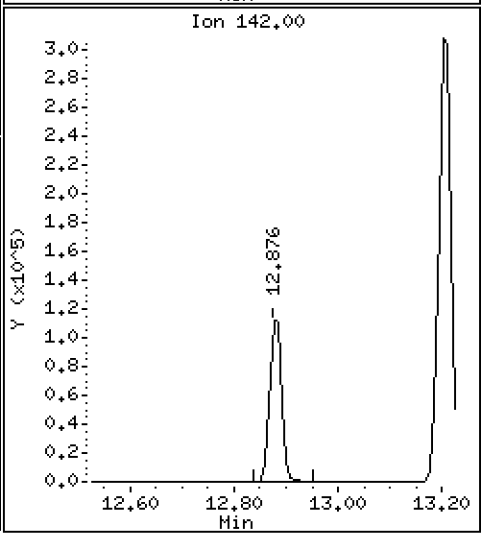


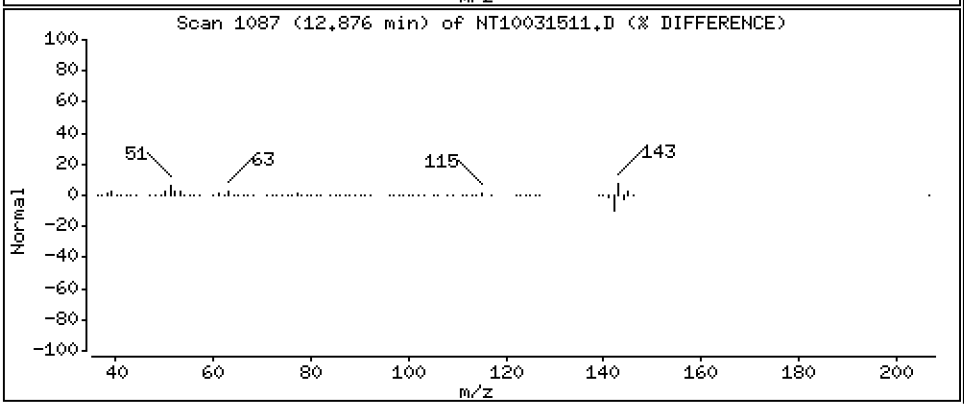












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

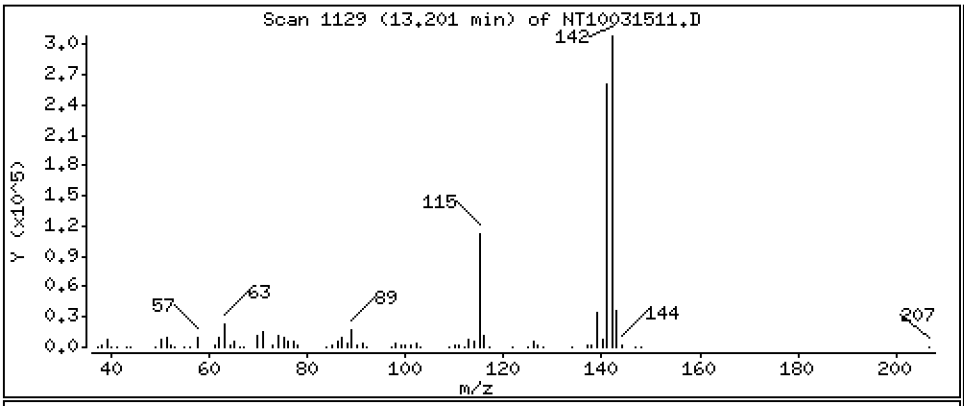
Operator: VTS

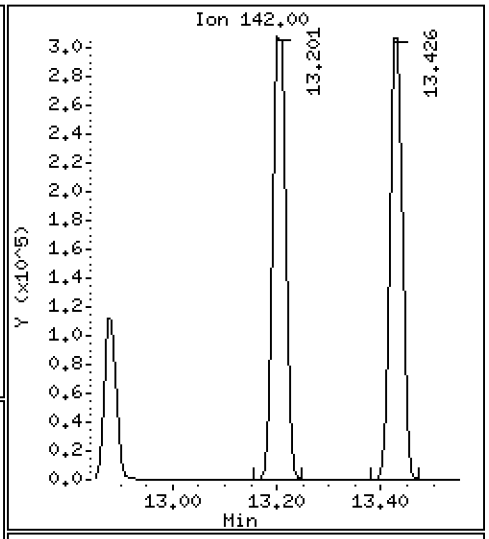
Column phase: ZB-5msi

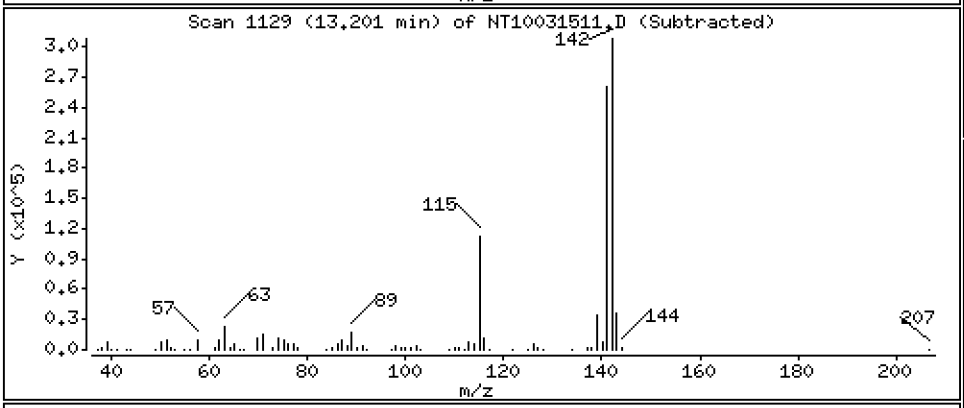
Column diameter: 0.25

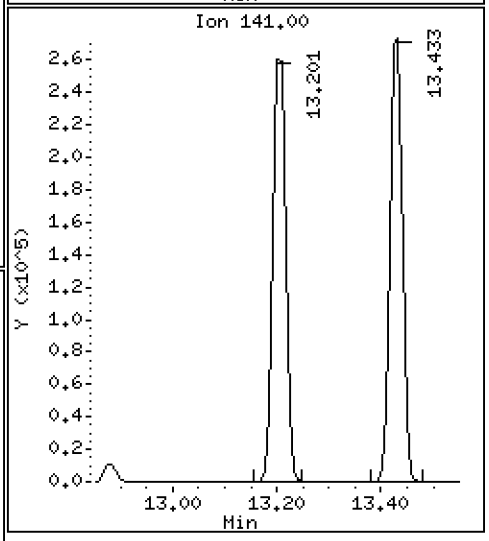
32 2-Methylnaphthalene

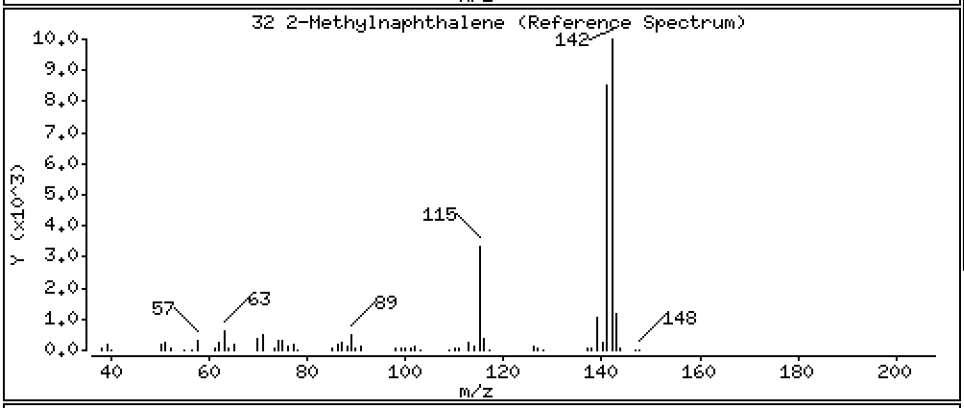
Concentration: 4.596 ug/mL

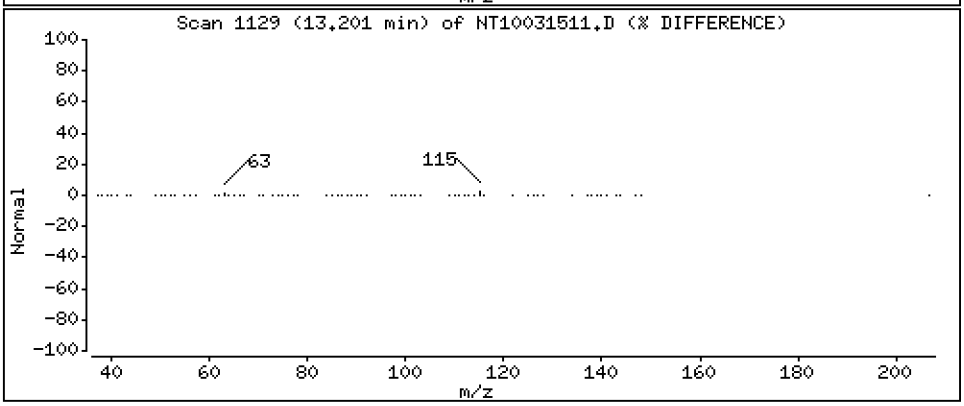












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

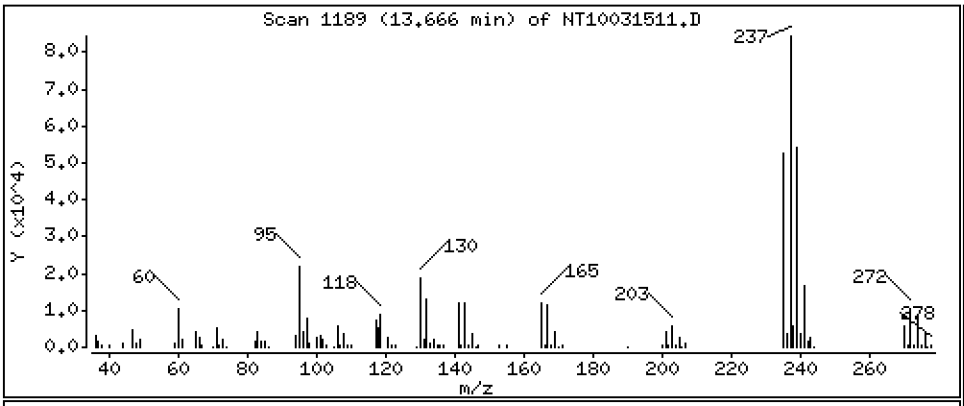
Operator: VTS

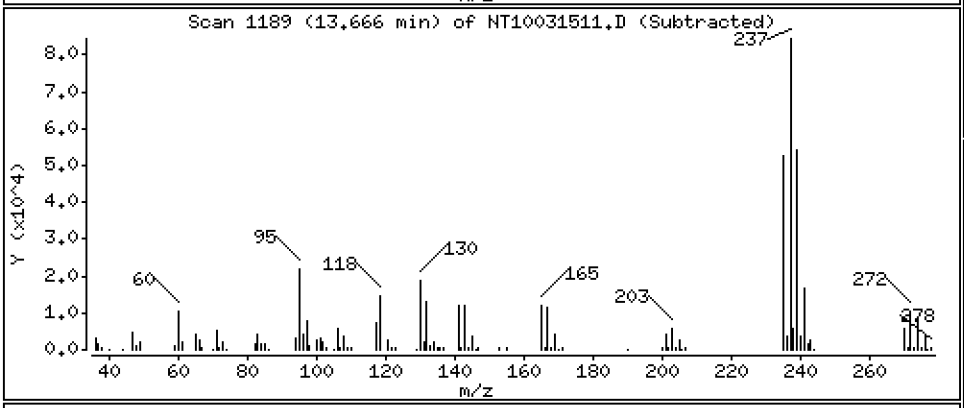
Column phase: ZB-5msi

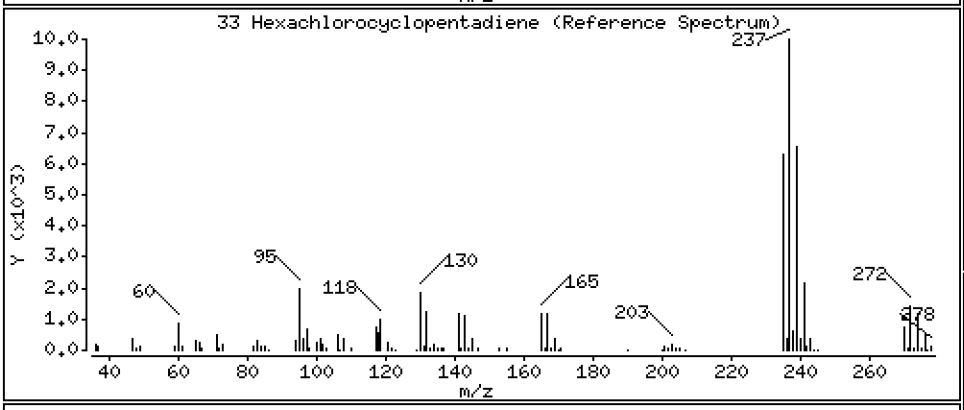
Column diameter: 0.25

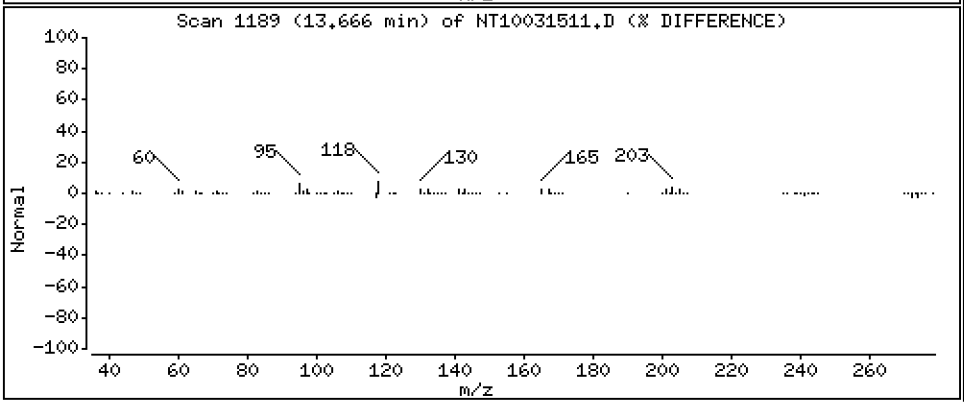
33 Hexachlorocyclopentadiene

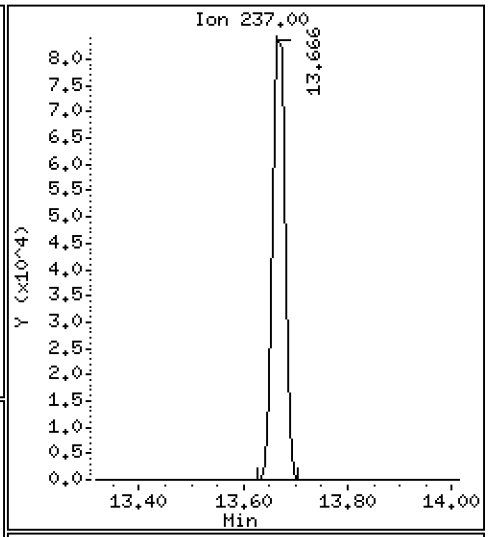
Concentration: 4.729 ug/mL

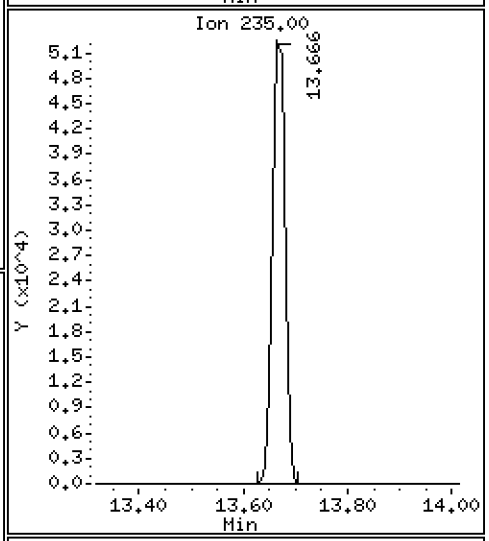


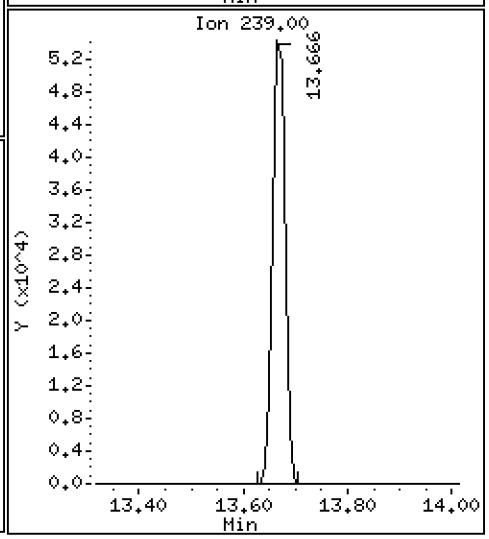












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

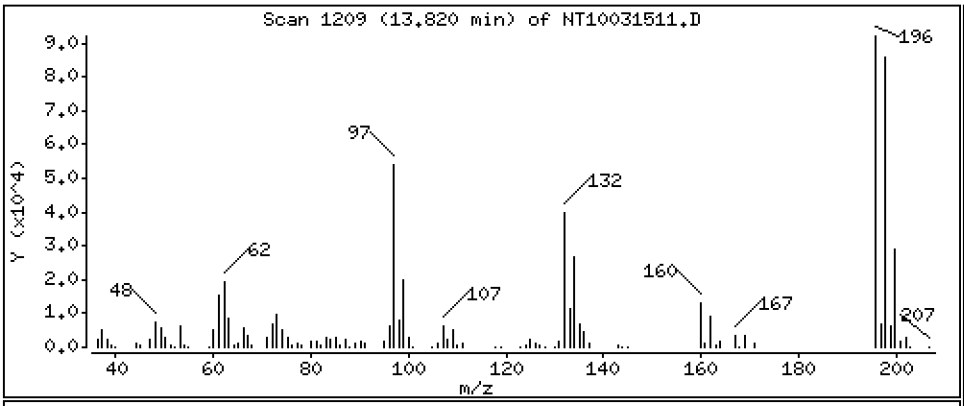
Operator: VTS

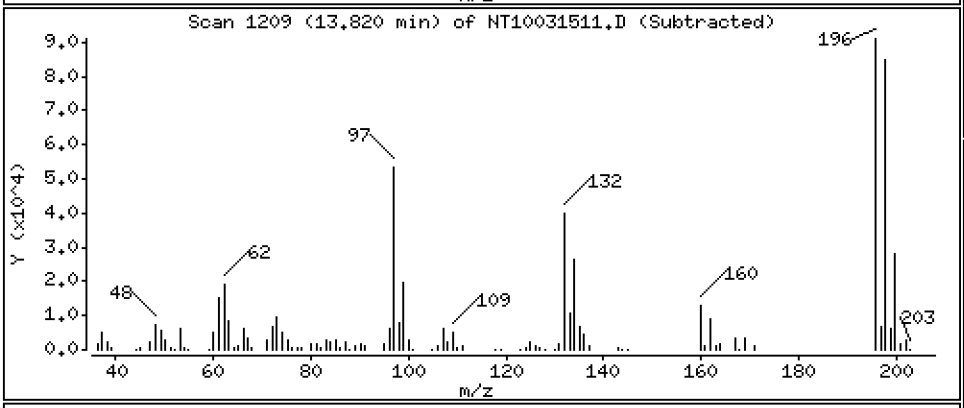
Column phase: ZB-5msi

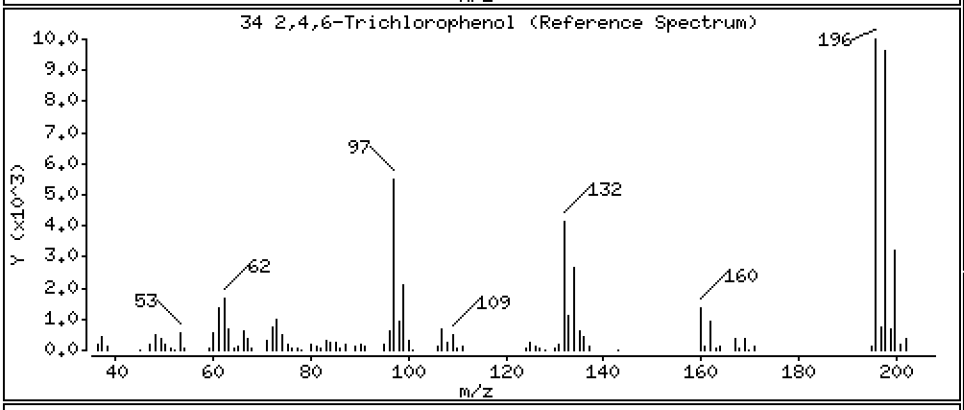
Column diameter: 0.25

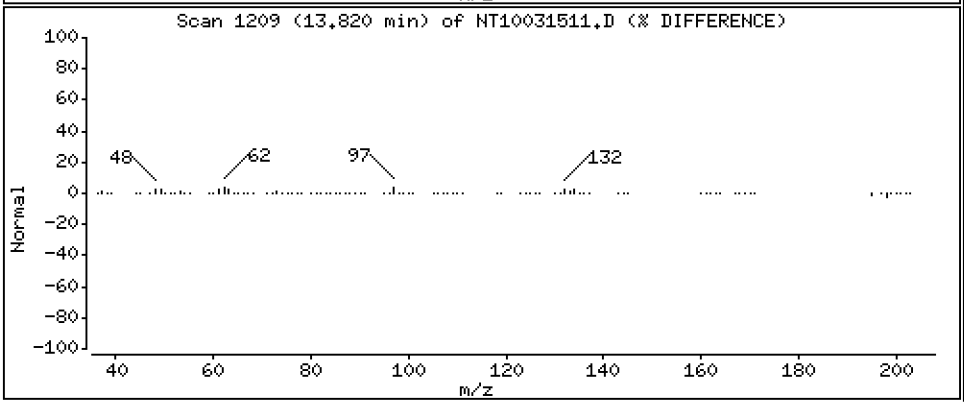
34 2,4,6-Trichlorophenol

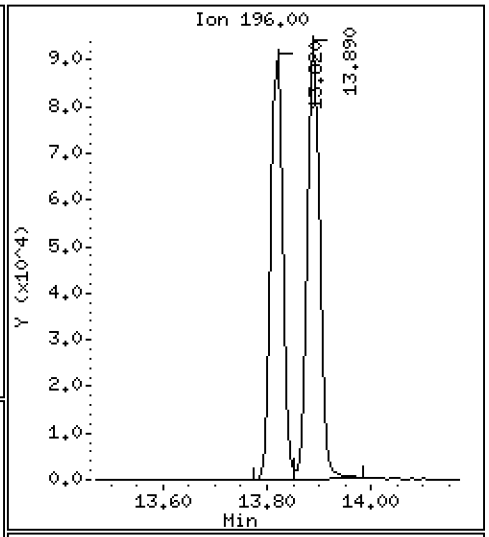
Concentration: 4.596 ug/mL

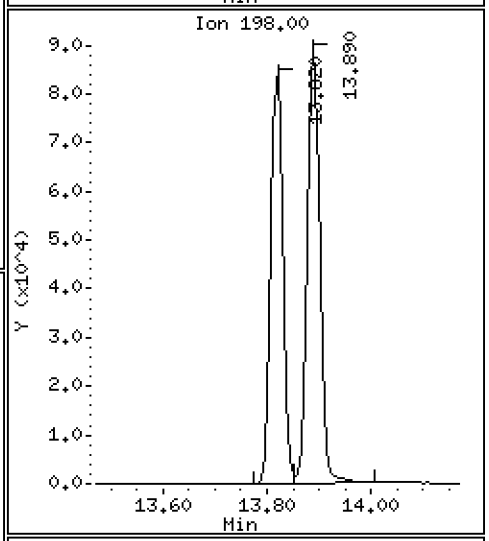


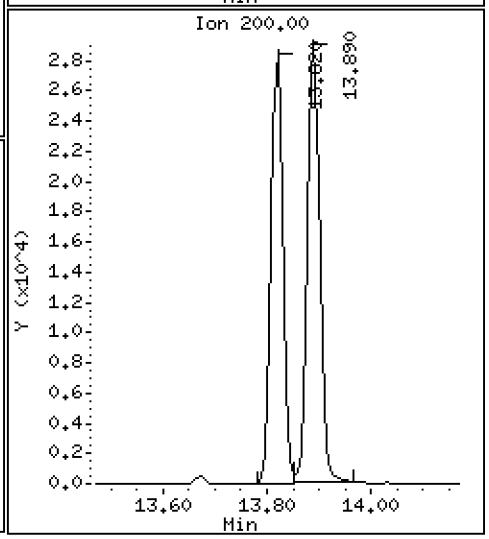












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

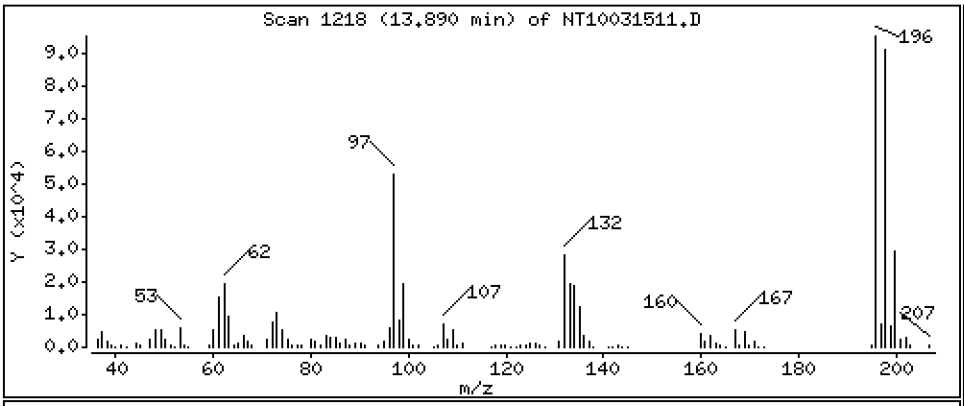
Operator: VTS

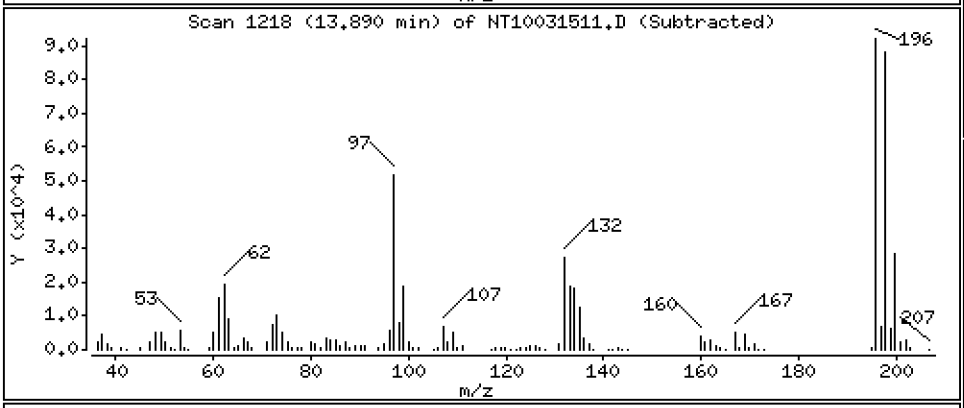
Column phase: ZB-5msi

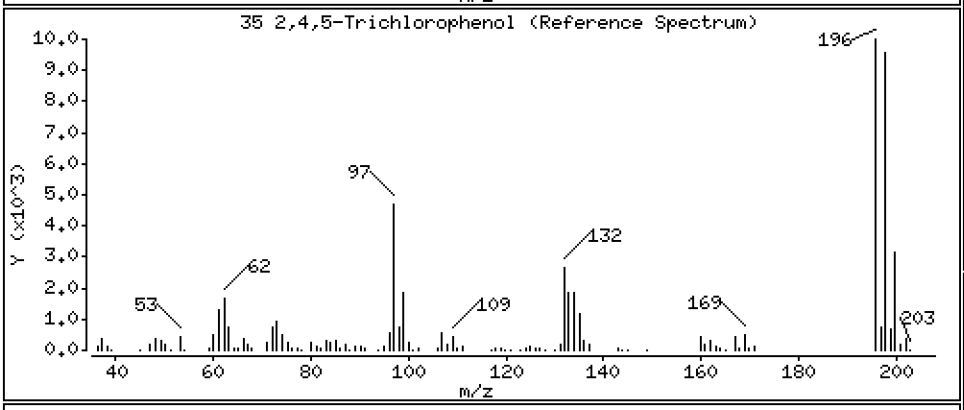
Column diameter: 0.25

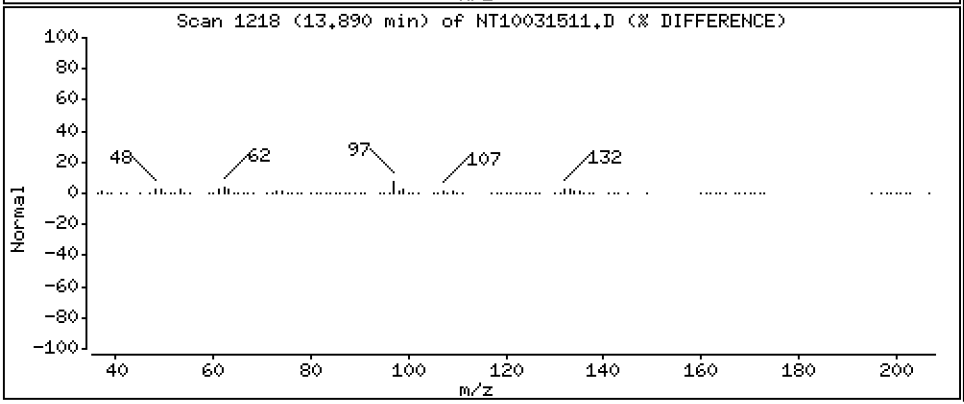
35 2,4,5-Trichlorophenol

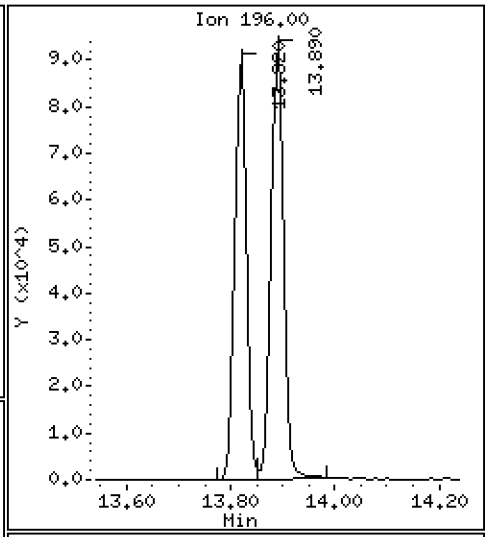
Concentration: 4.409 ug/mL

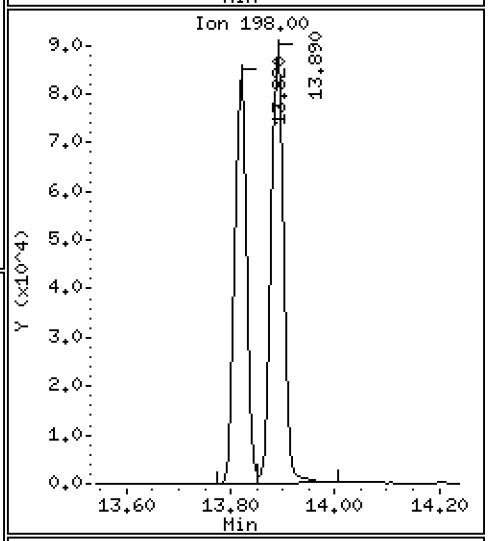


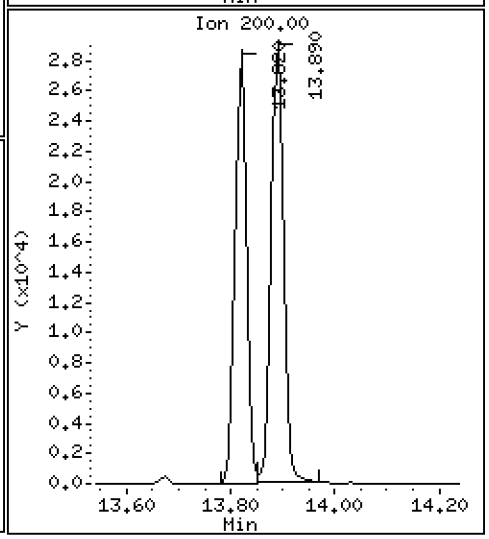












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

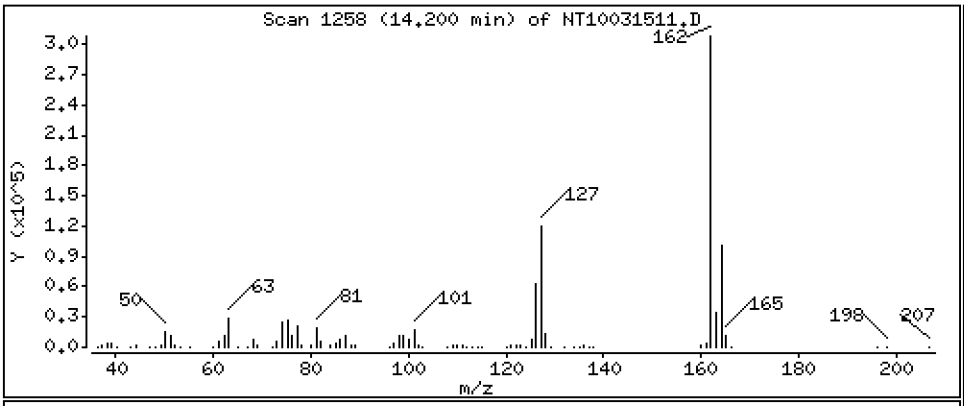
Operator: VTS

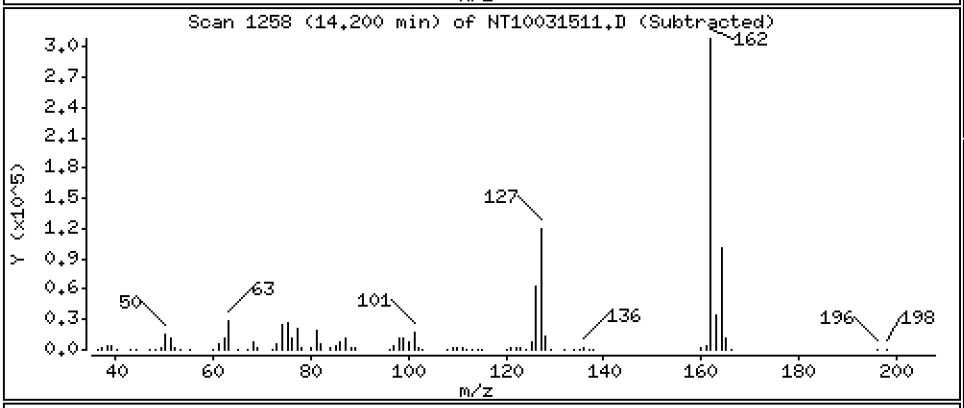
Column phase: ZB-5msi

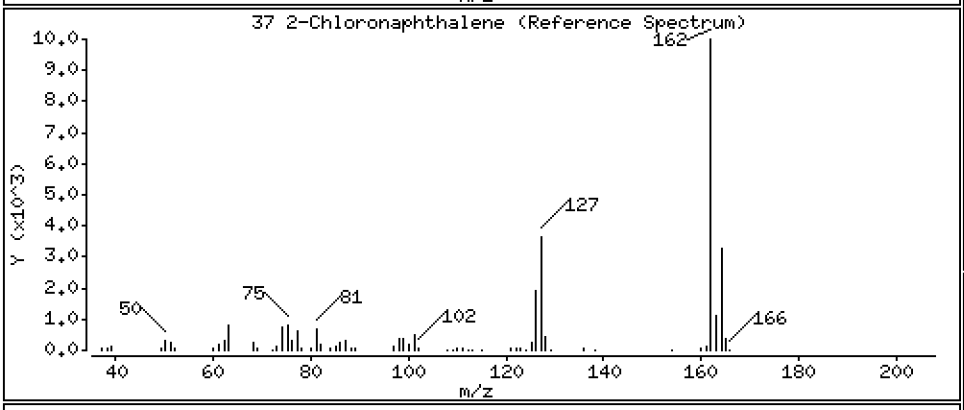
Column diameter: 0.25

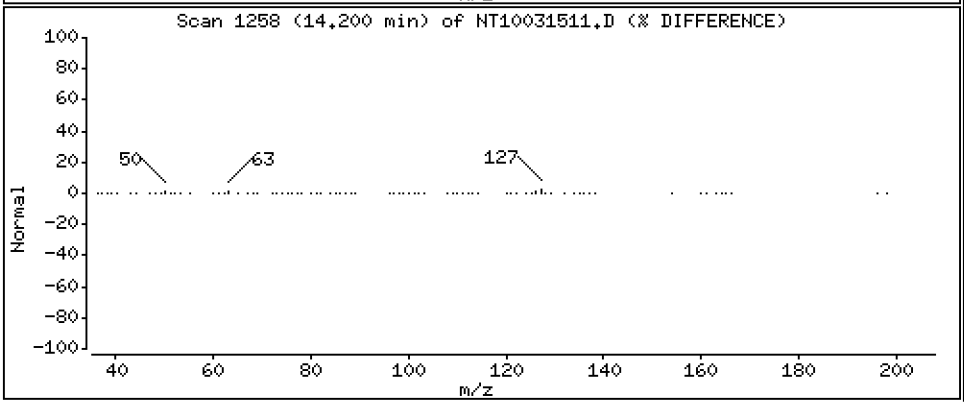
37 2-Chloronaphthalene

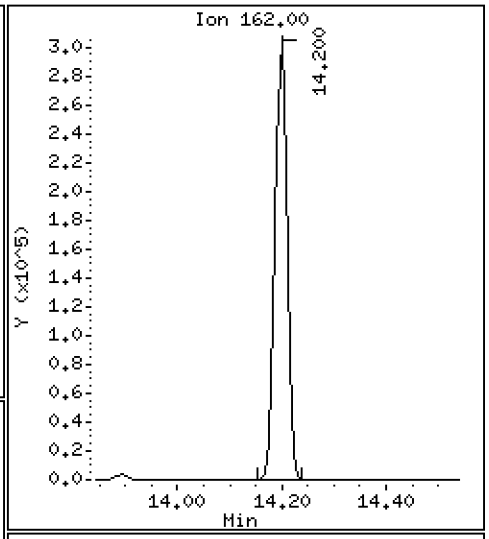
Concentration: 4.796 ug/mL

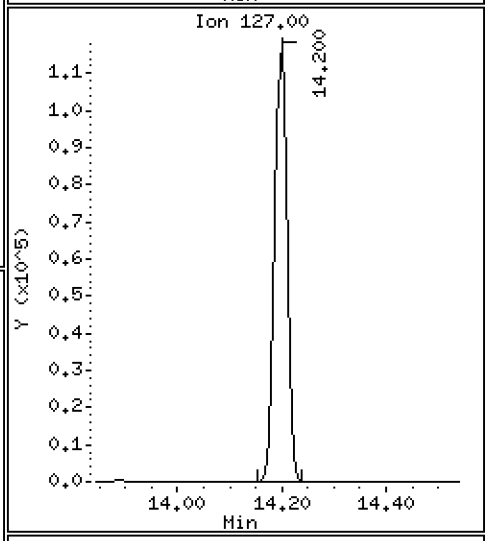


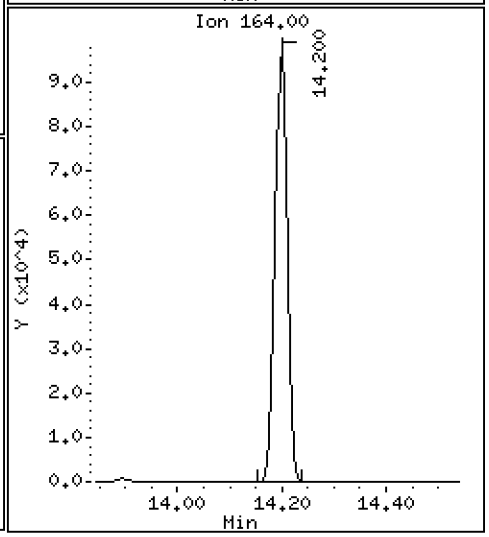












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

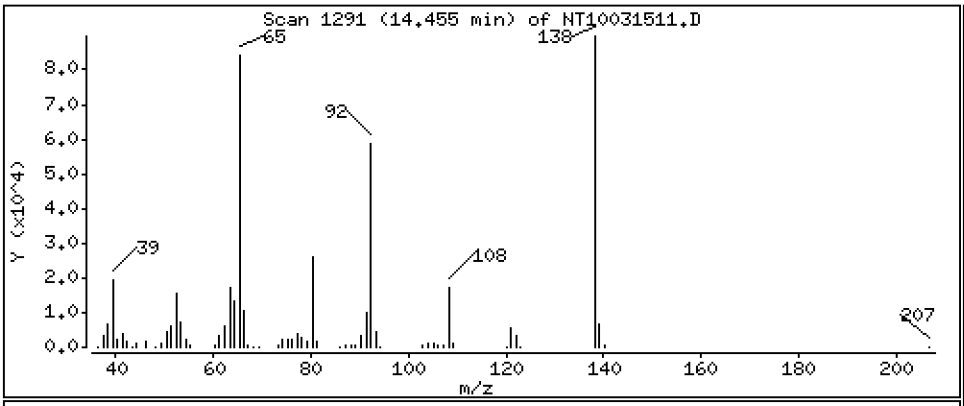
Operator: VTS

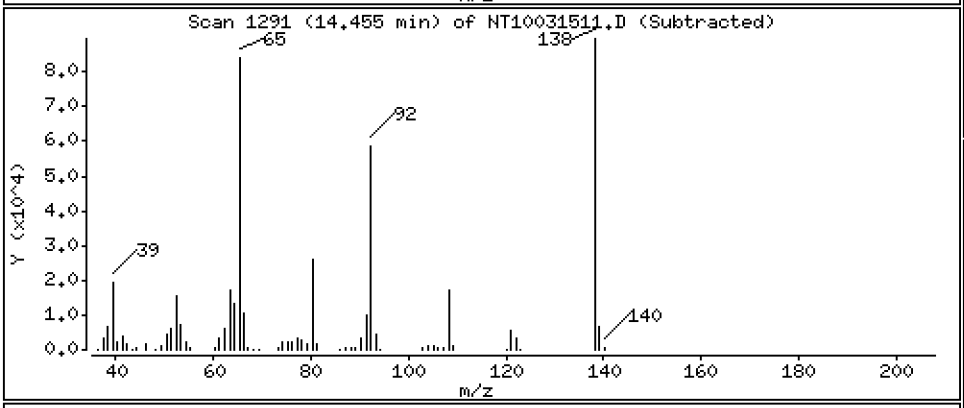
Column phase: ZB-5msi

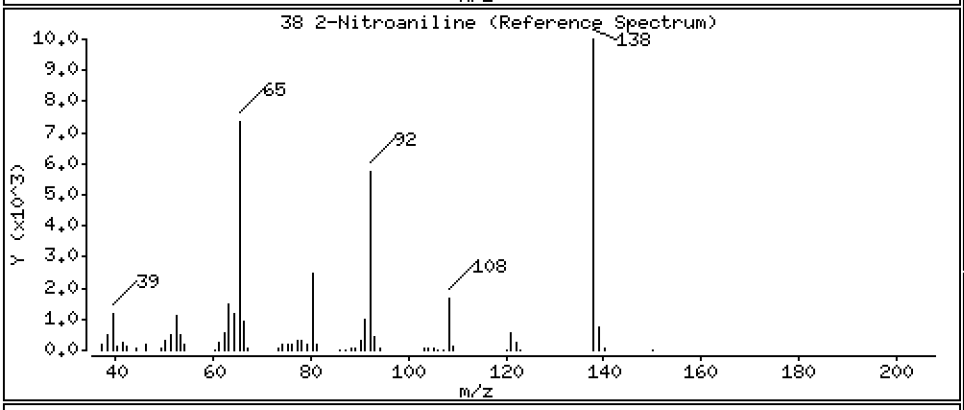
Column diameter: 0.25

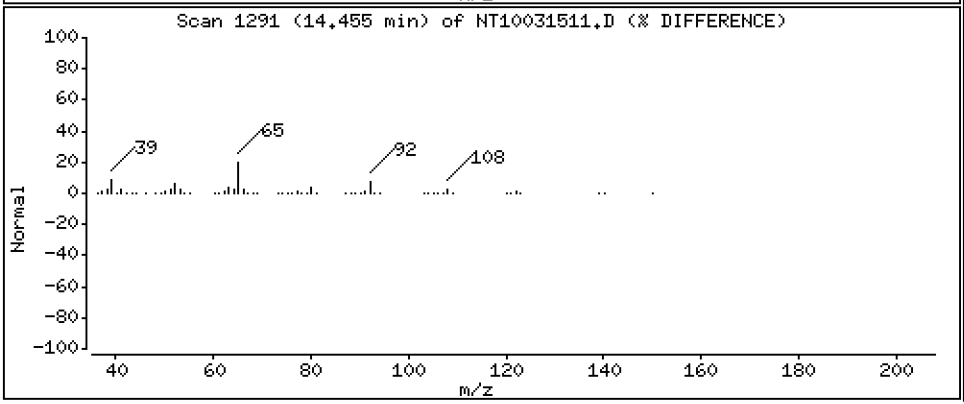
38 2-Nitroaniline

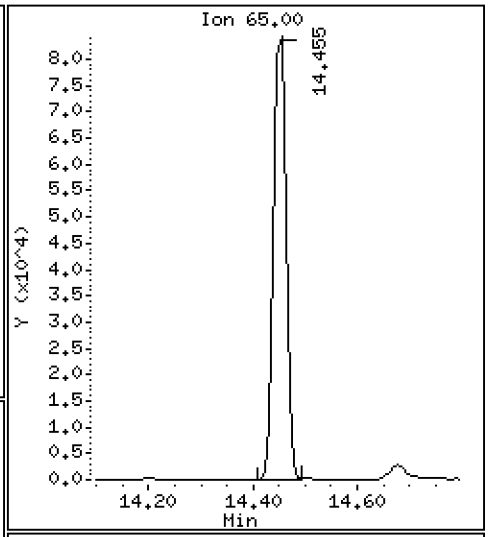
Concentration: 4.911 ug/mL

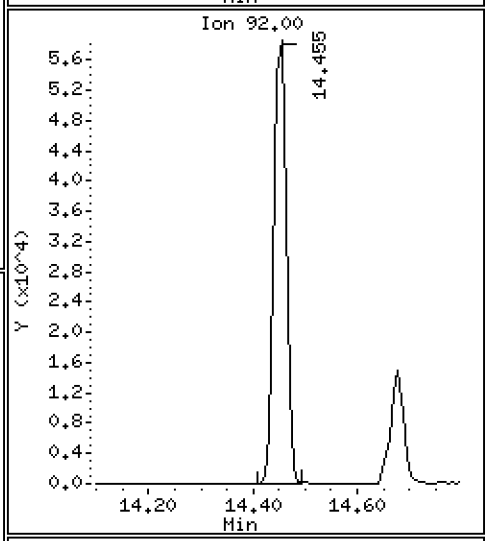


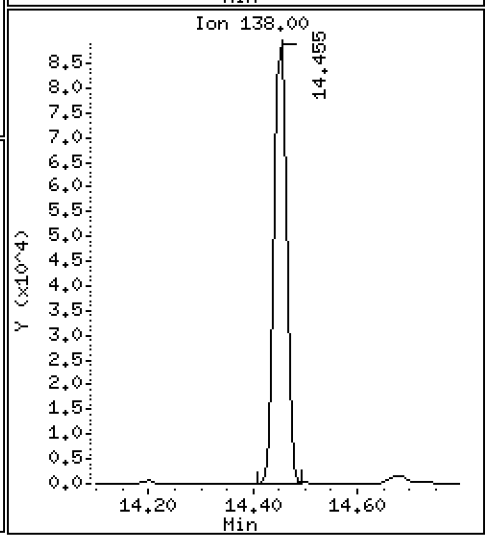












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

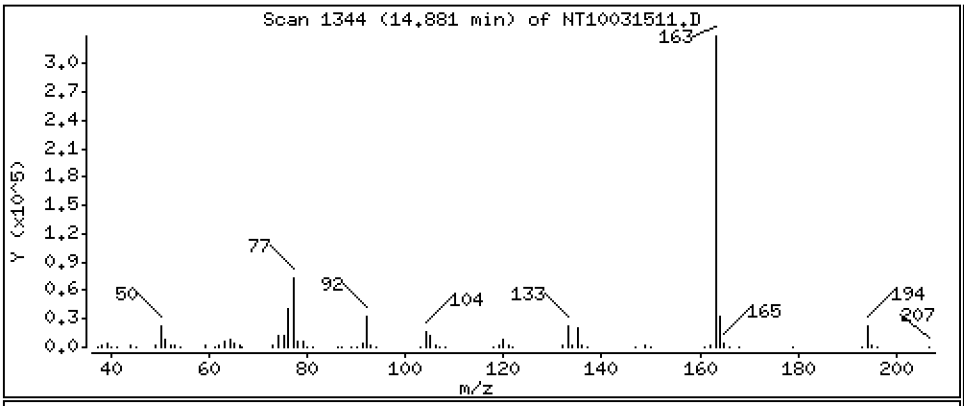
Operator: VTS

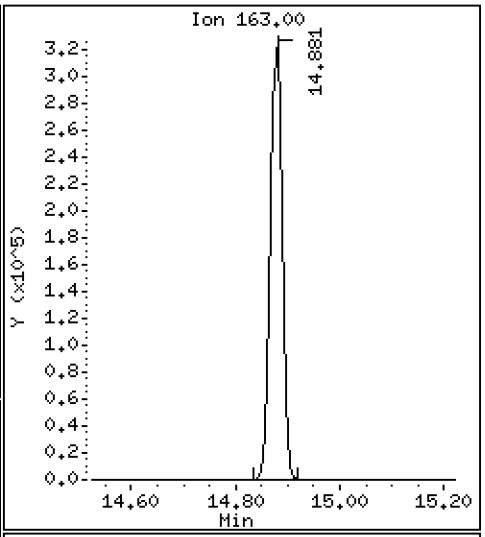
Column phase: ZB-5msi

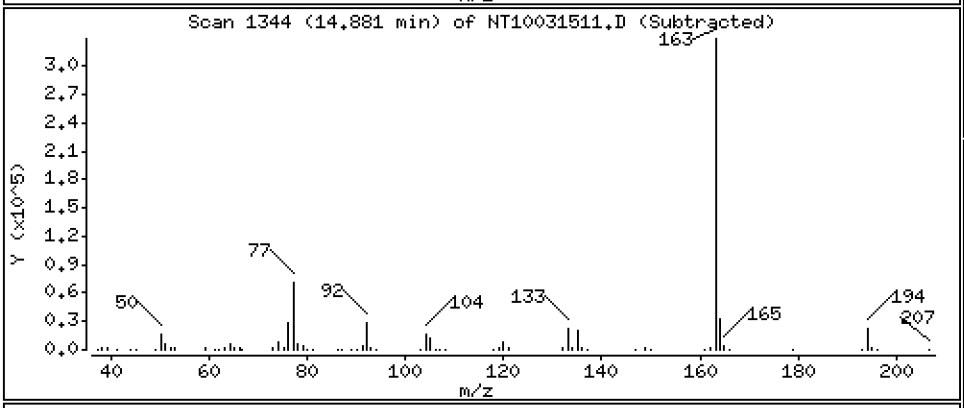
Column diameter: 0.25

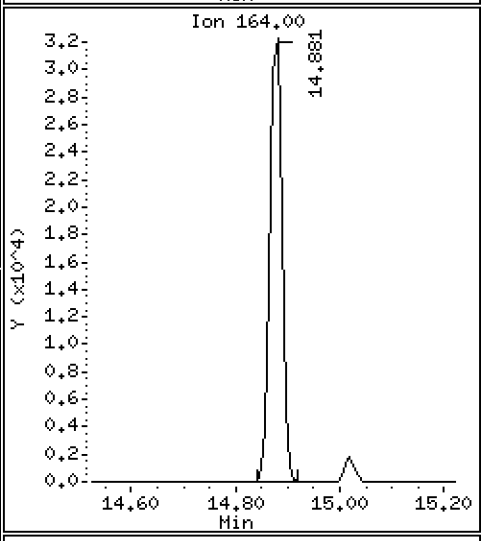
39 Dimethylphthalate

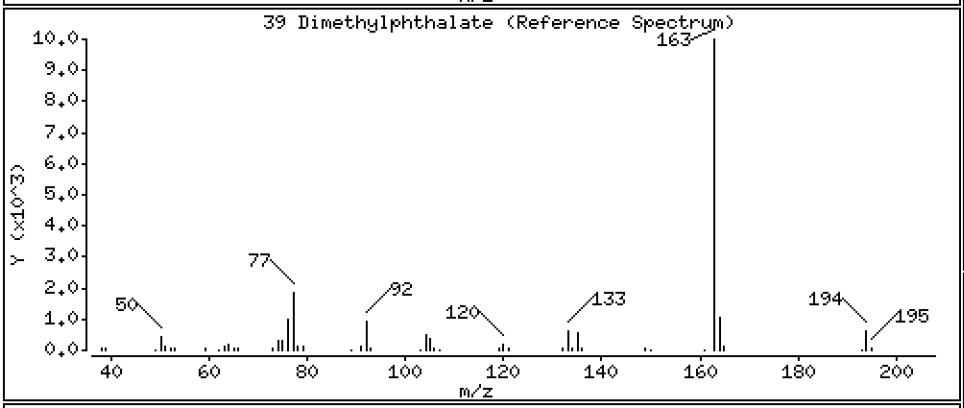
Concentration: 4.937 ug/mL

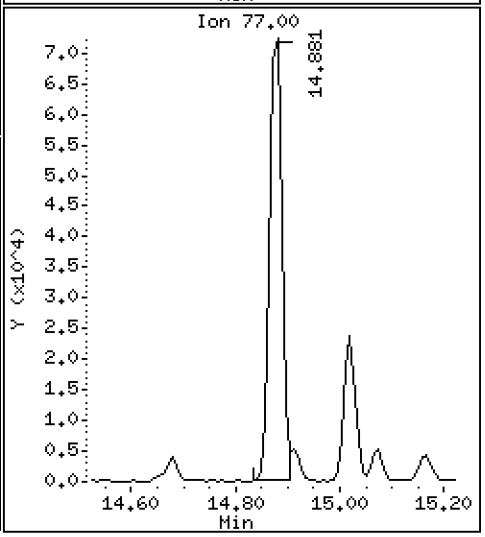


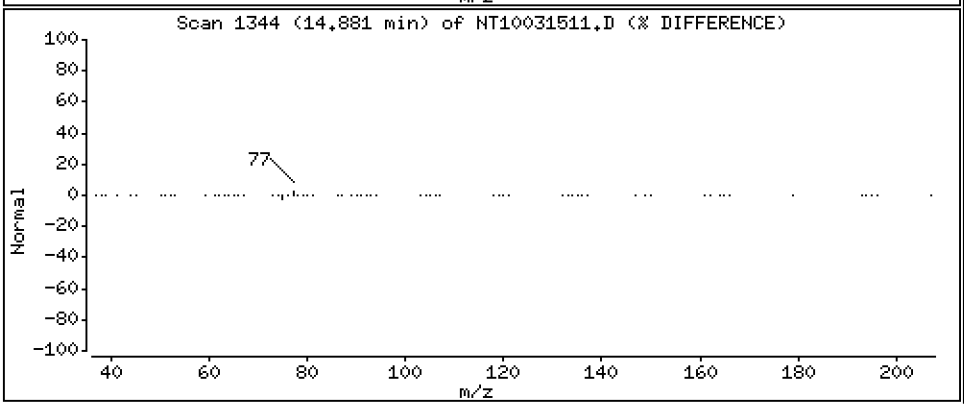












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

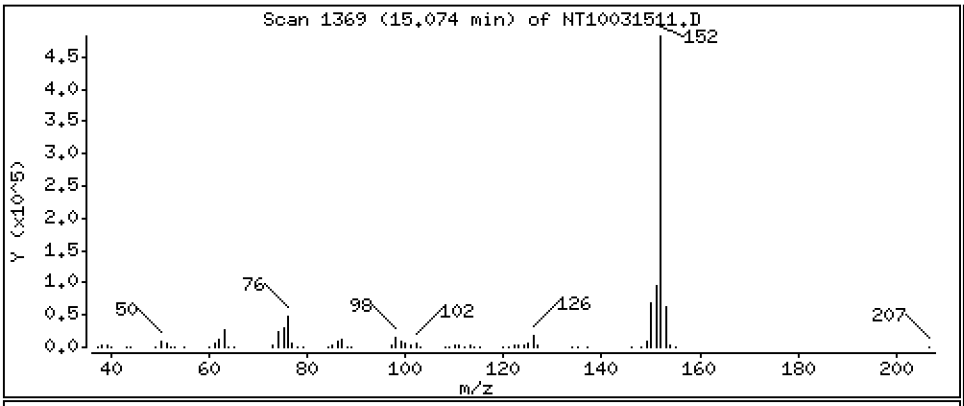
Operator: VTS

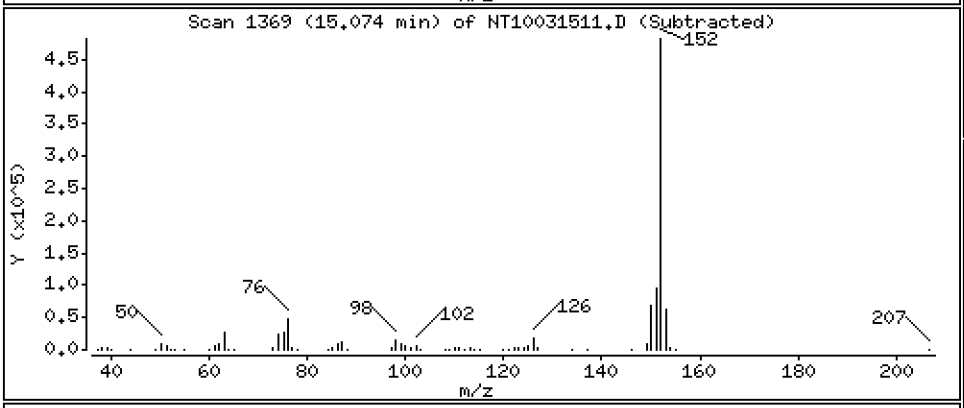
Column phase: ZB-5msi

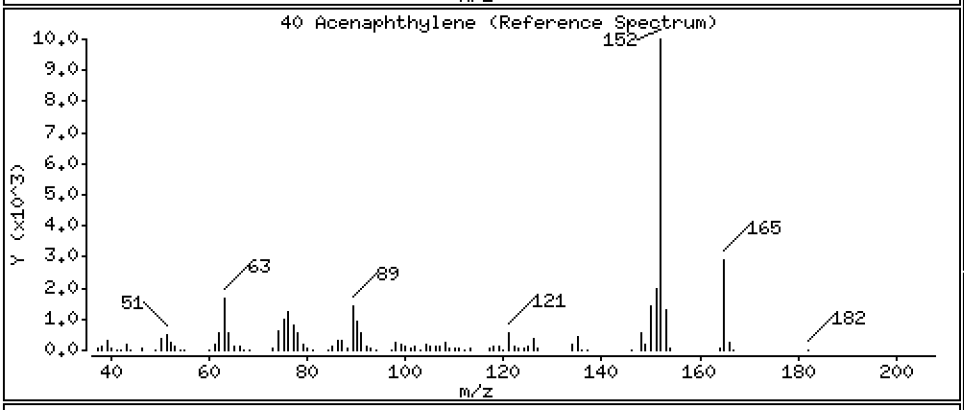
Column diameter: 0.25

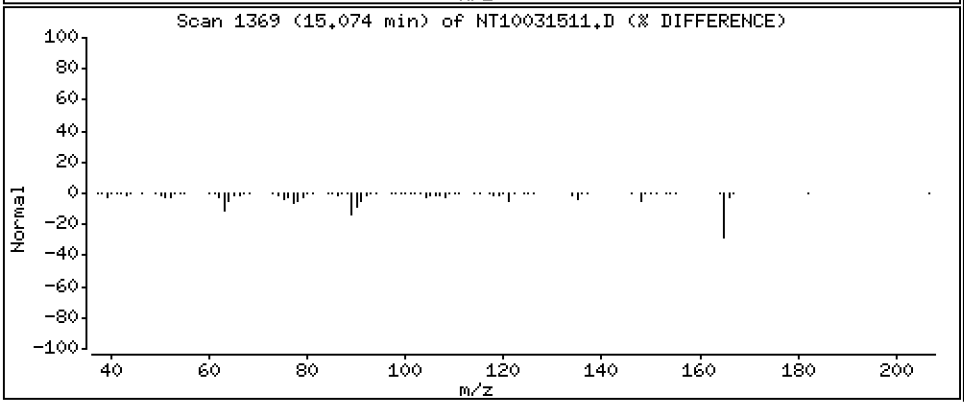
40 Acenaphthylene

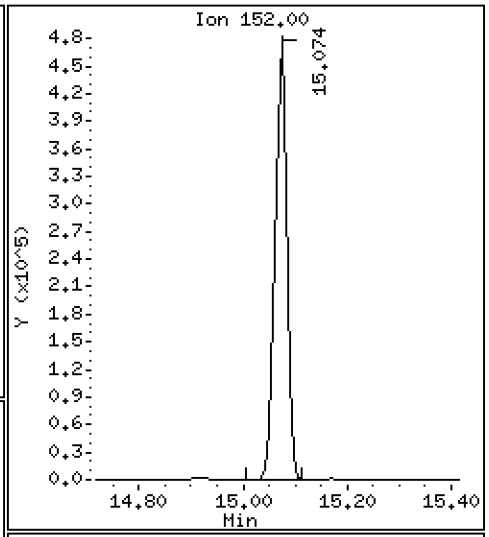
Concentration: 4.805 ug/mL

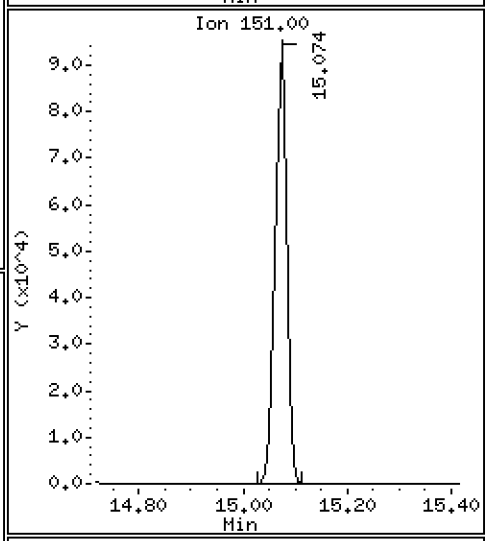


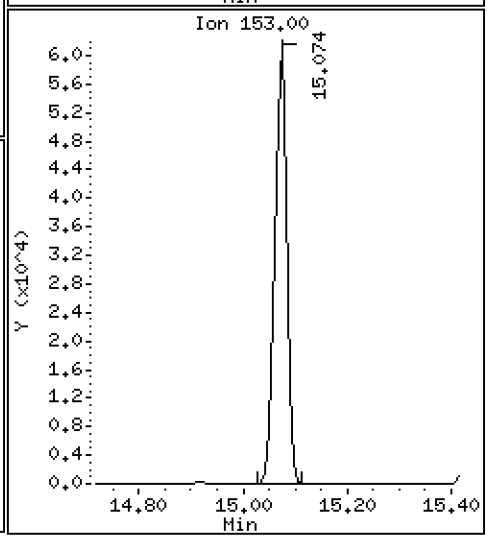












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

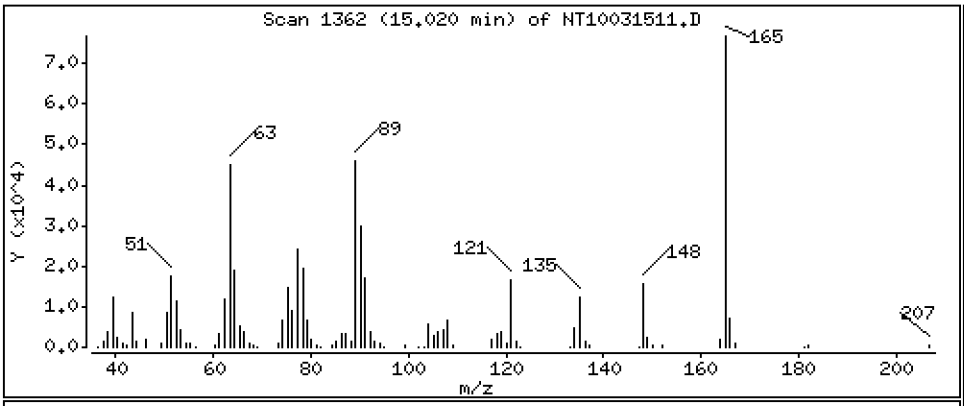
Operator: VTS

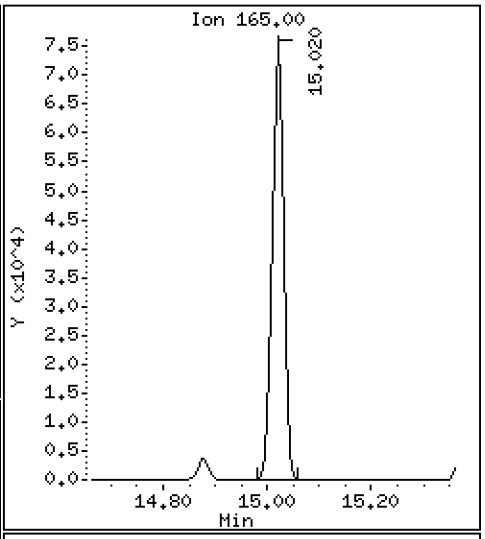
Column phase: ZB-5msi

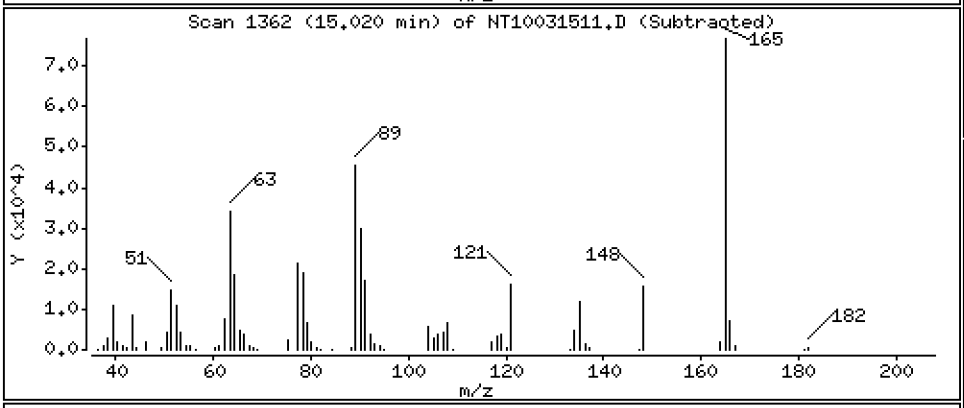
Column diameter: 0.25

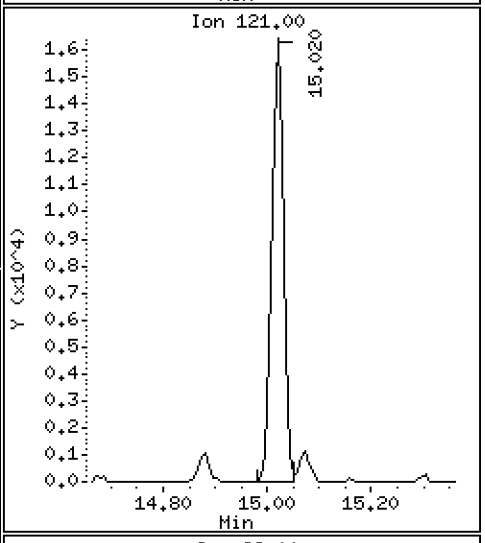
41 2,6-Dinitrotoluene

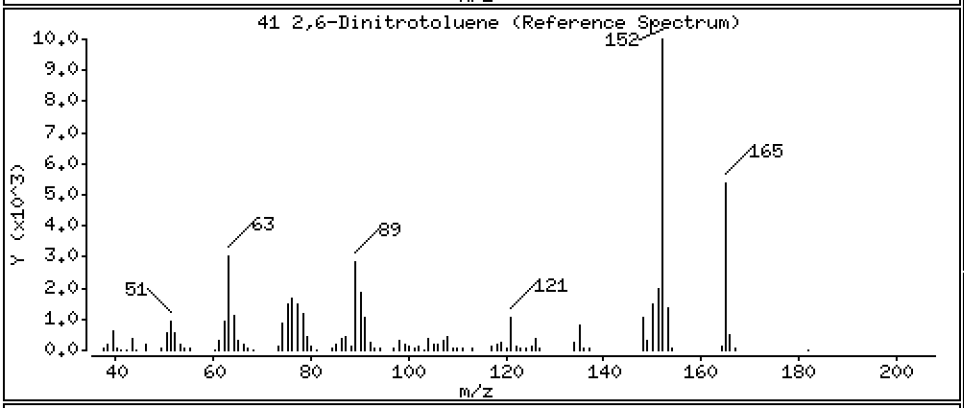
Concentration: 5.298 ug/mL

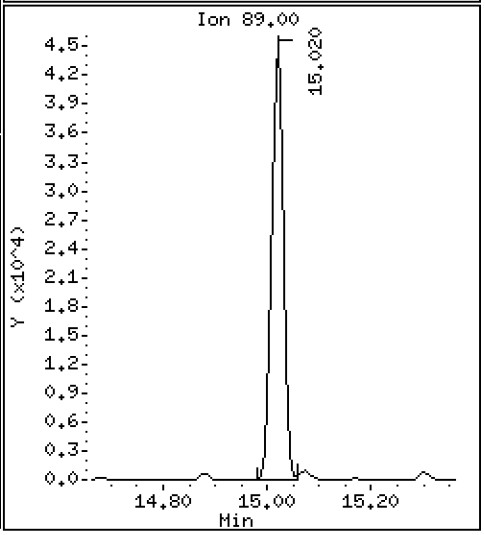


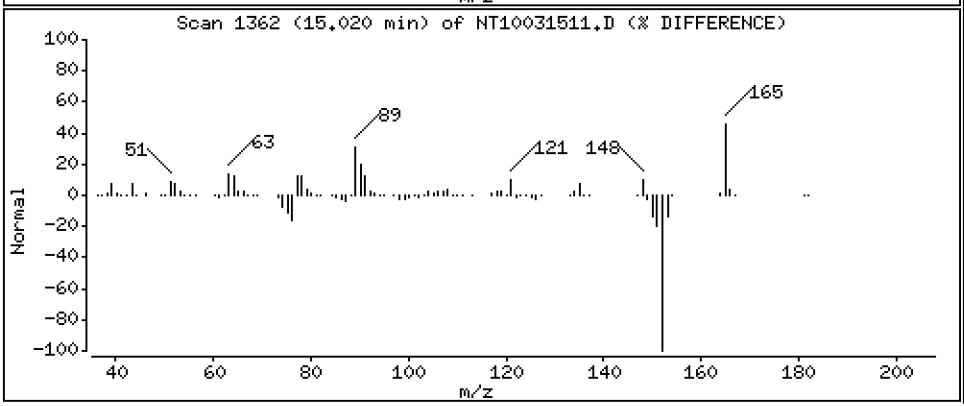












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

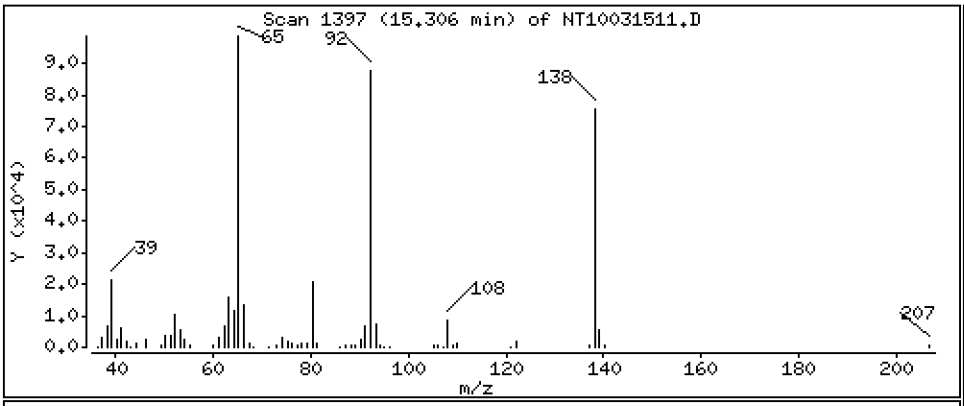
Operator: VTS

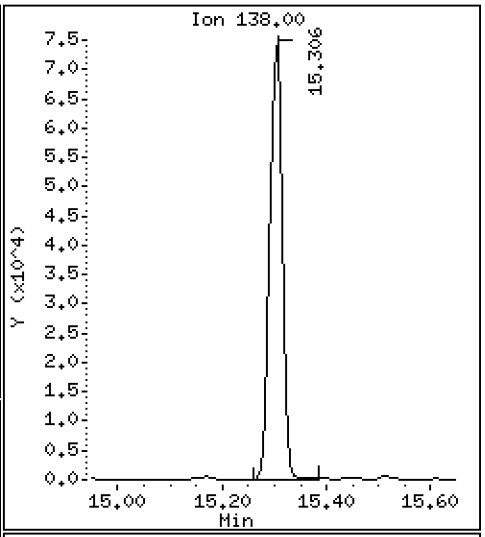
Column phase: ZB-5msi

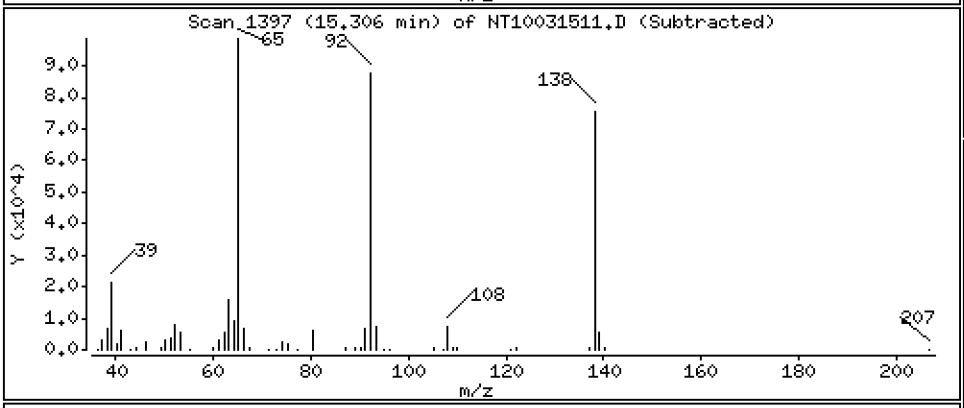
Column diameter: 0.25

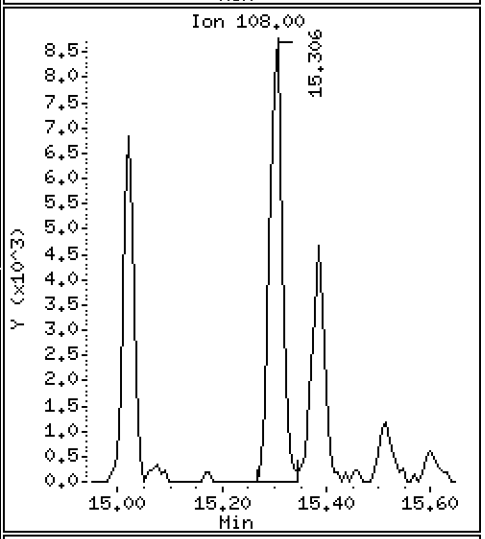
43 3-Nitroaniline

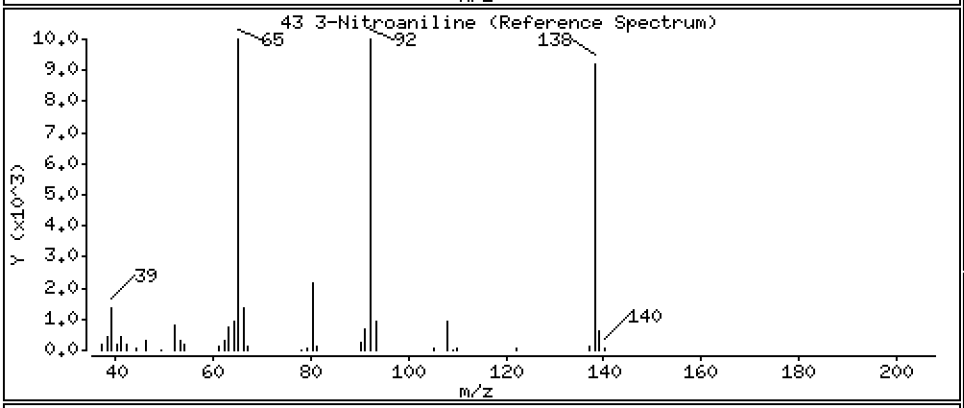
Concentration: 5.014 ug/mL

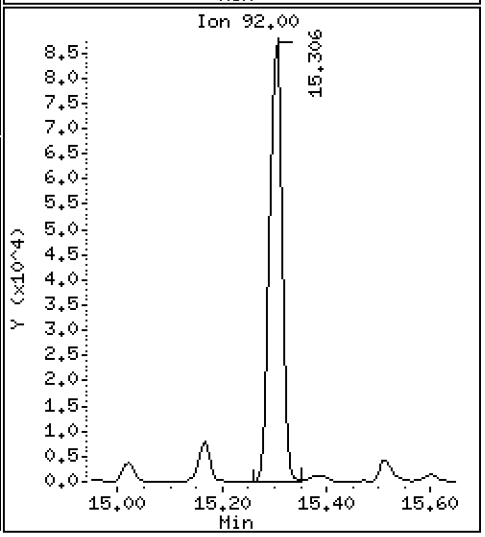


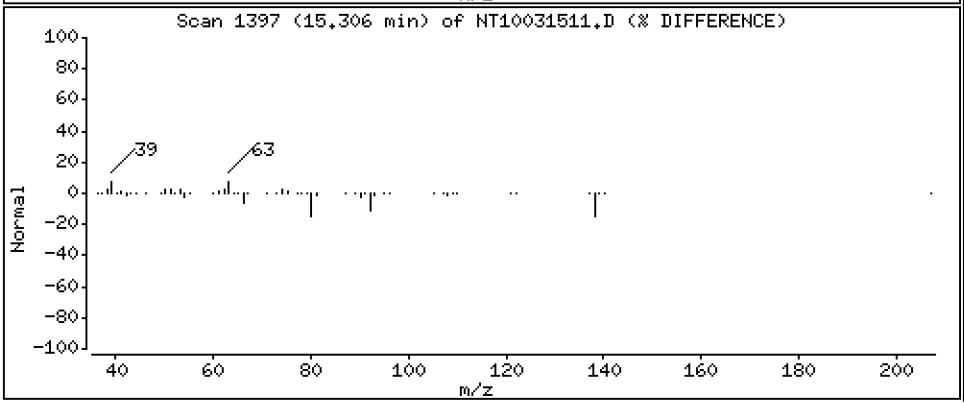












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

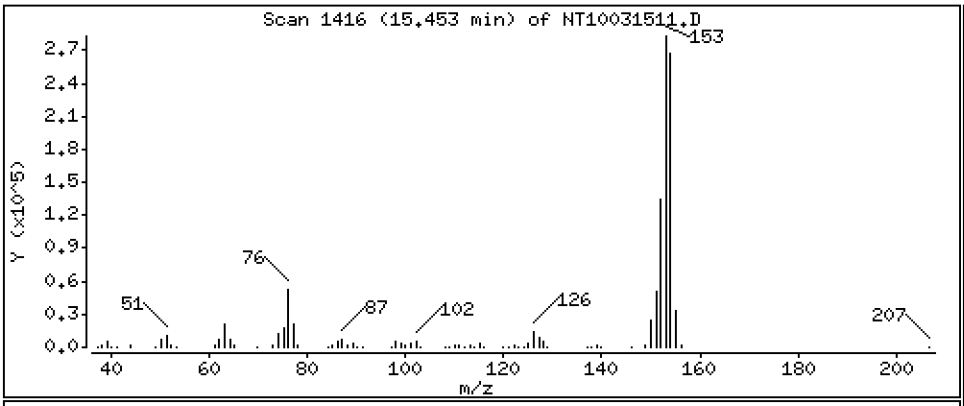
Operator: VTS

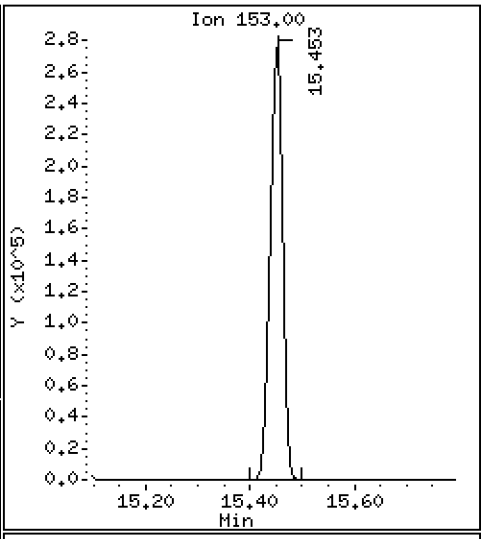
Column phase: ZB-5msi

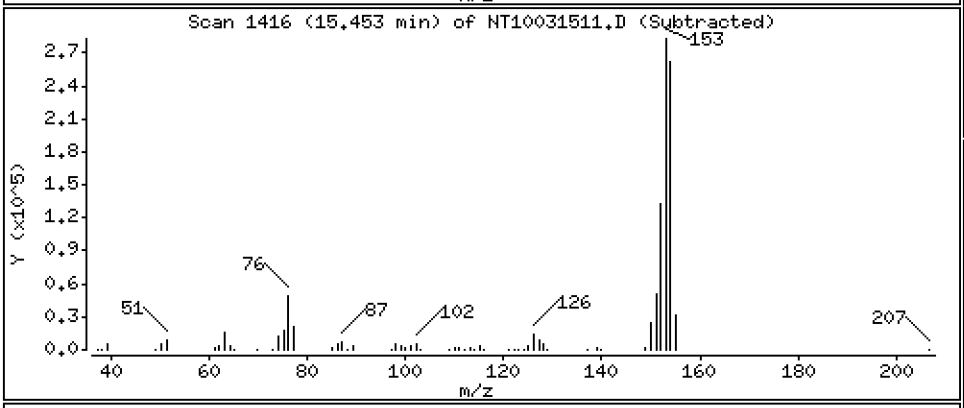
Column diameter: 0.25

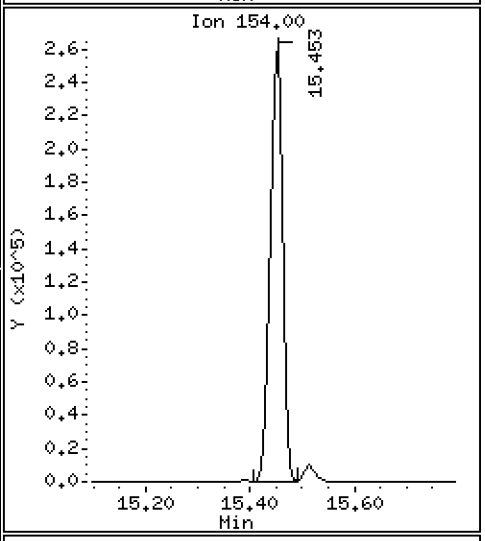
44 Acenaphthene

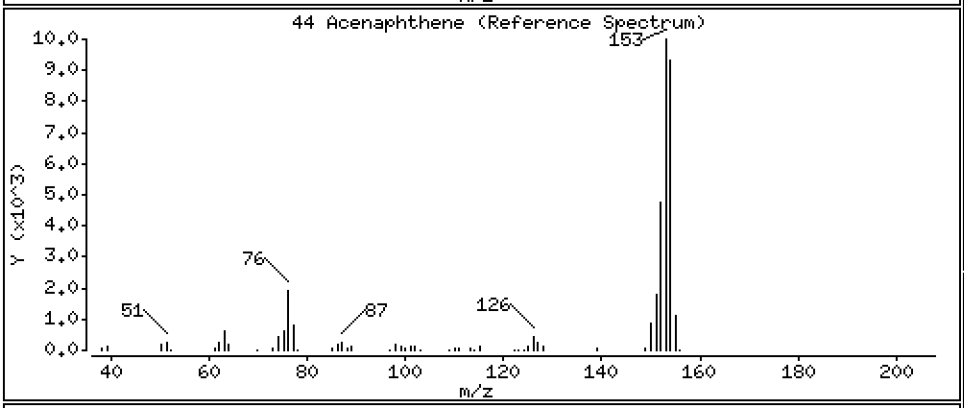
Concentration: 4.776 ug/mL

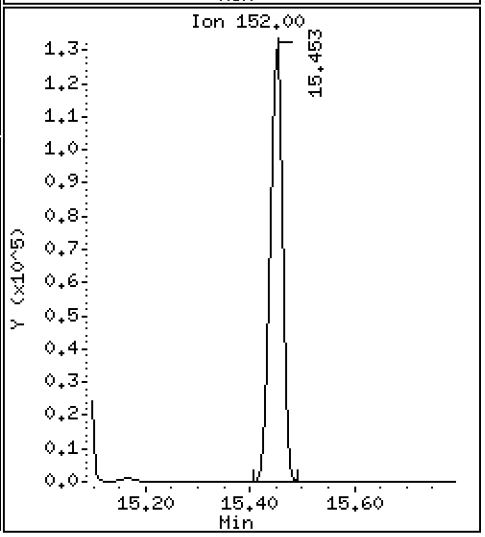


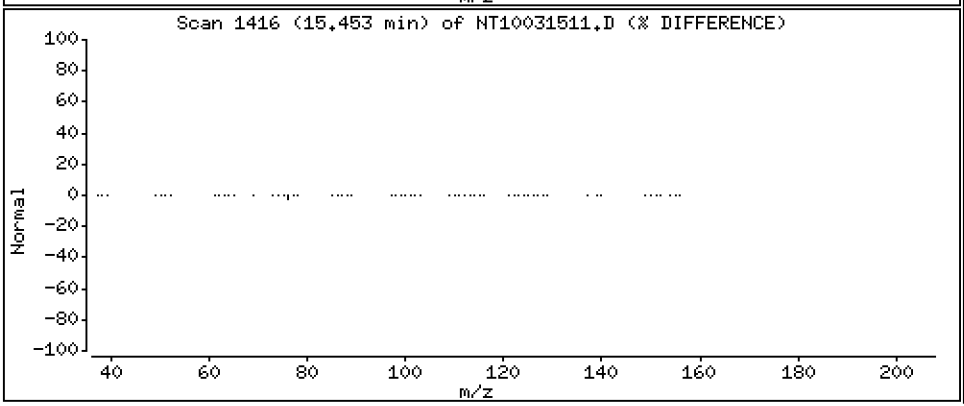












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

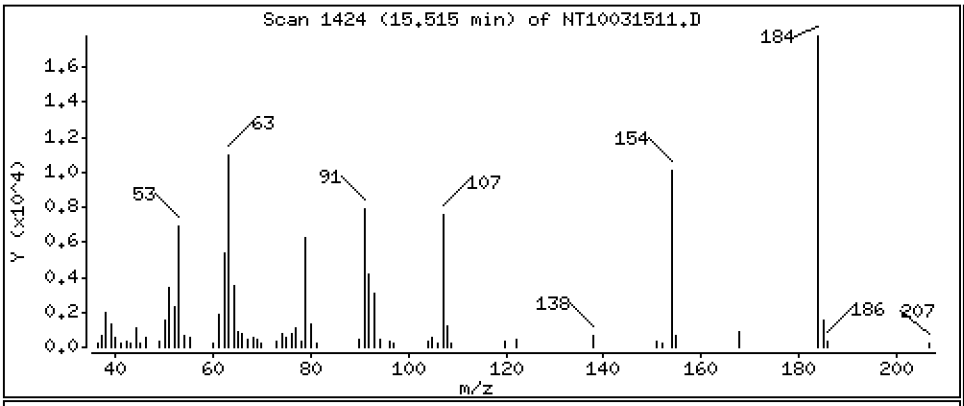
Operator: VTS

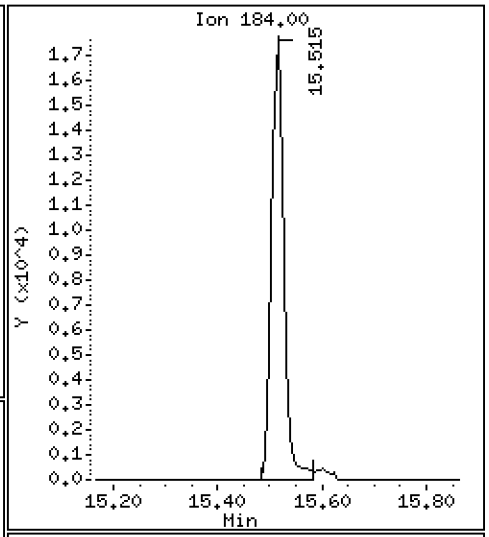
Column phase: ZB-5msi

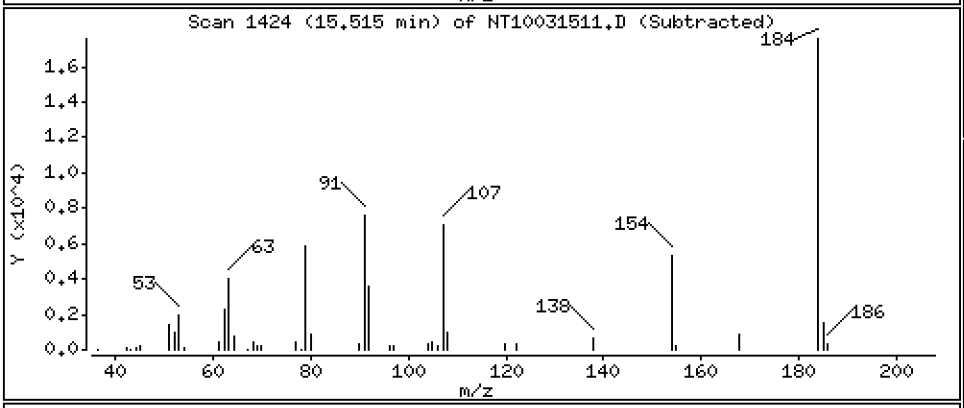
Column diameter: 0.25

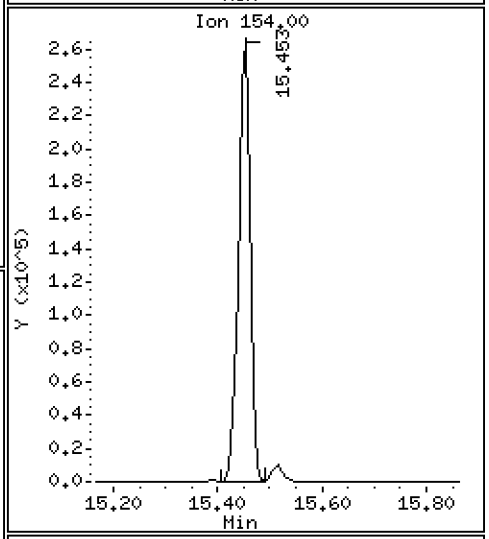
45 2,4-Dinitrophenol

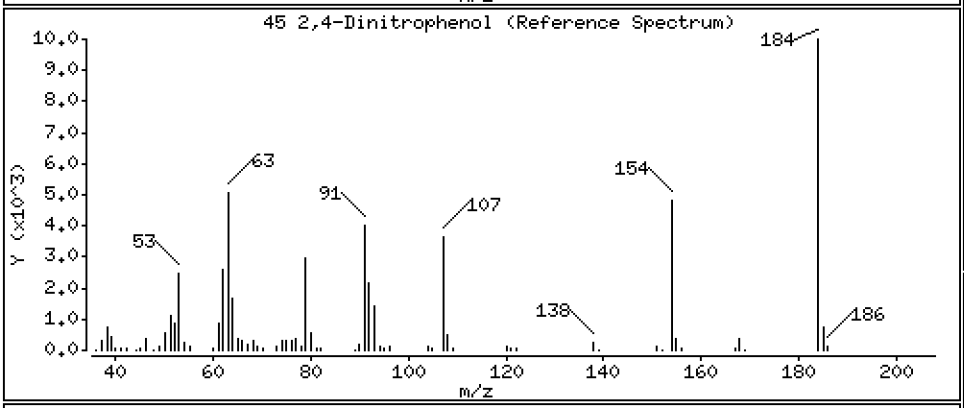
Concentration: 2.124 ug/mL

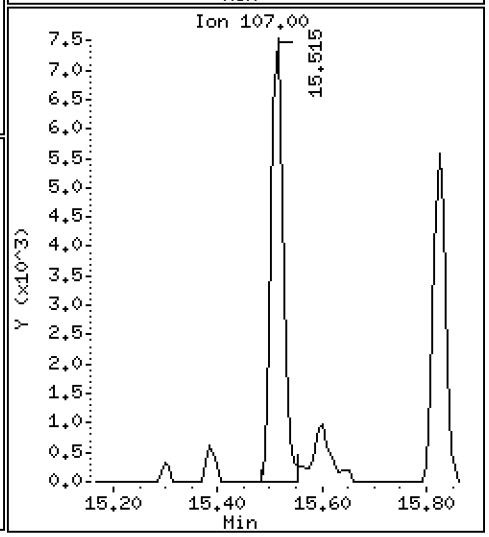


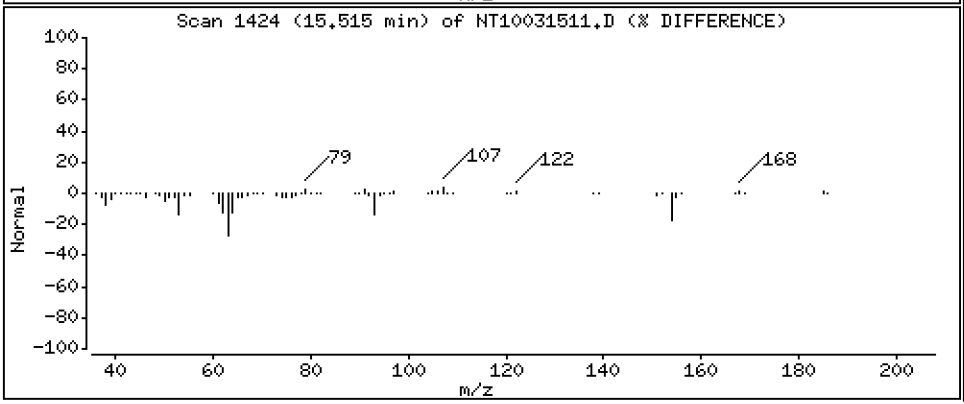












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

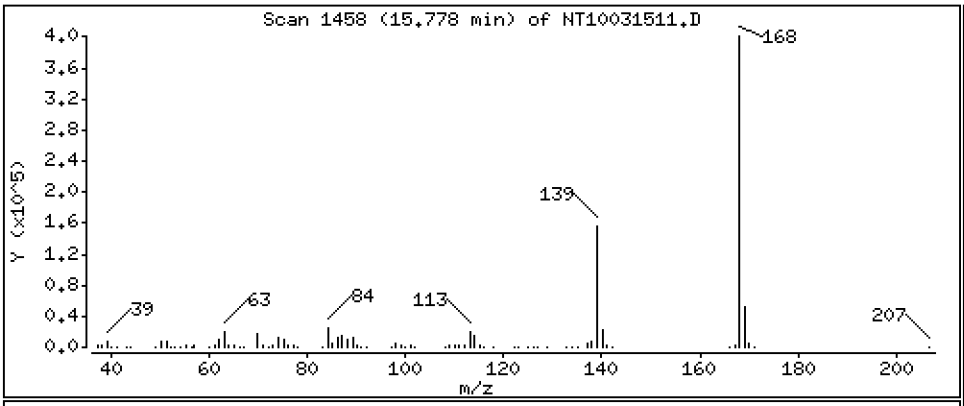
Operator: VTS

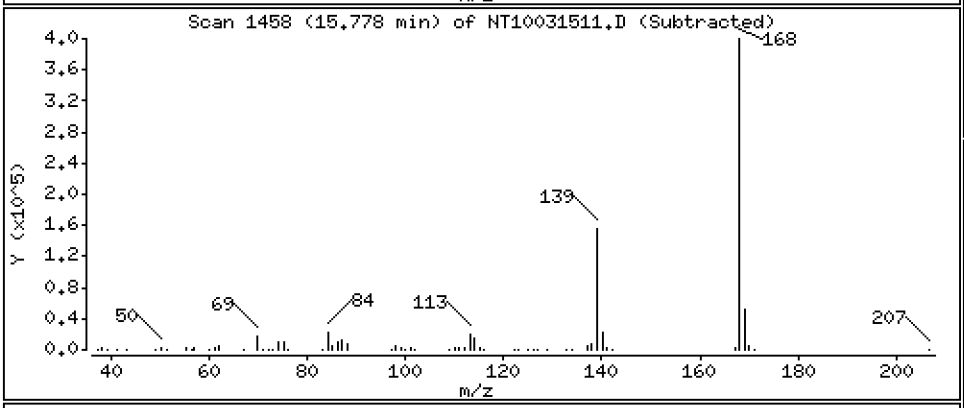
Column phase: ZB-5msi

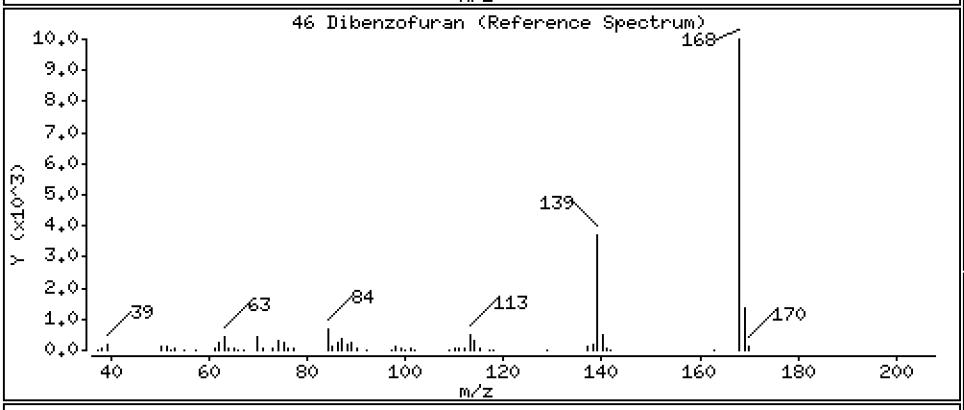
Column diameter: 0.25

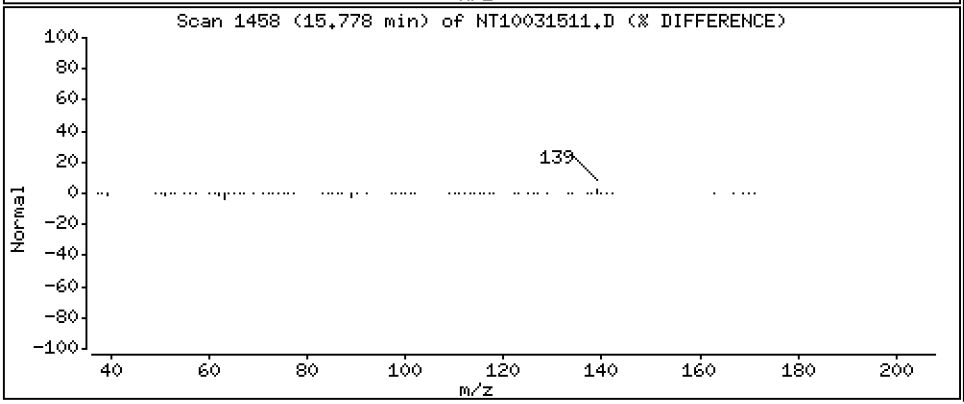
46 Dibenzofuran

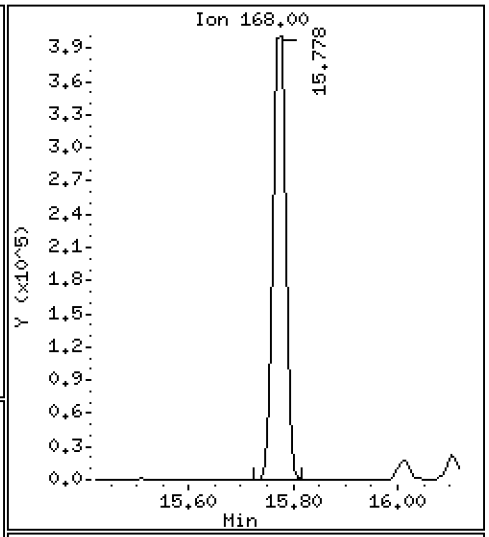
Concentration: 4.648 ug/mL

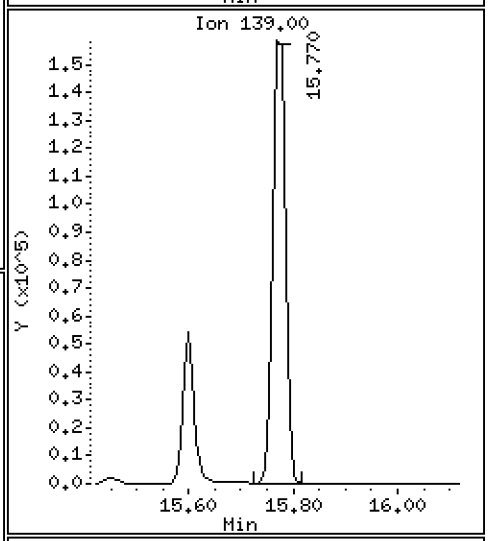


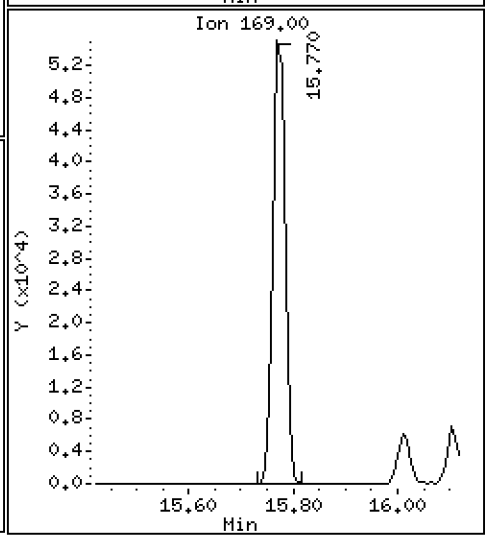












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

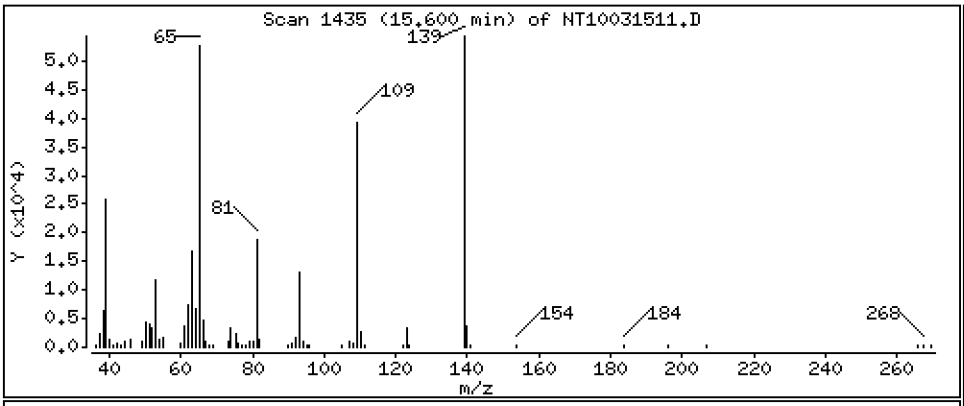
Operator: VTS

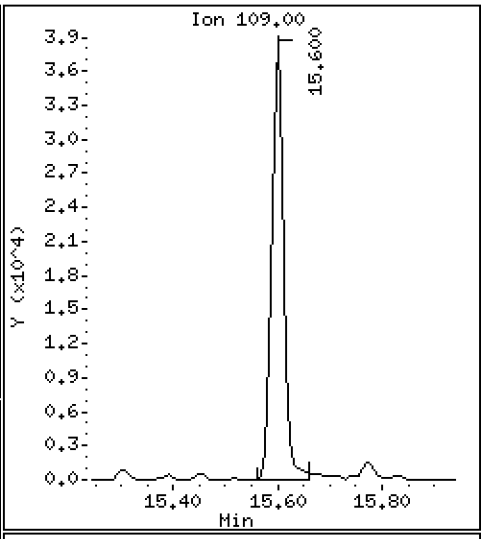
Column phase: ZB-5msi

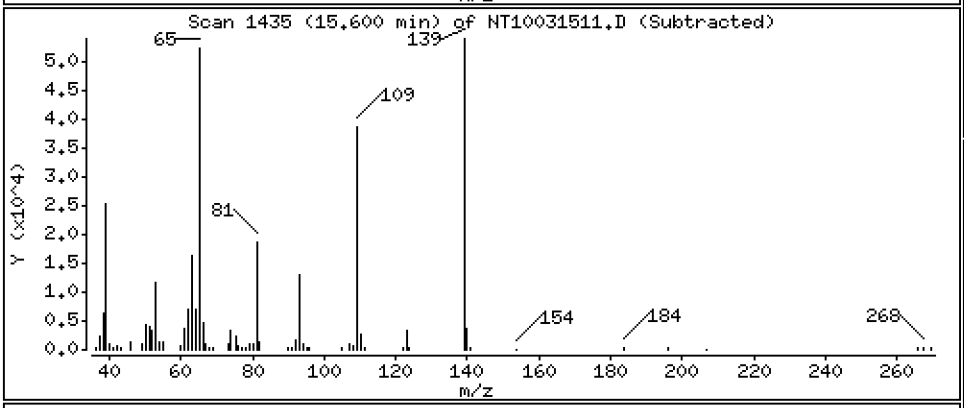
Column diameter: 0.25

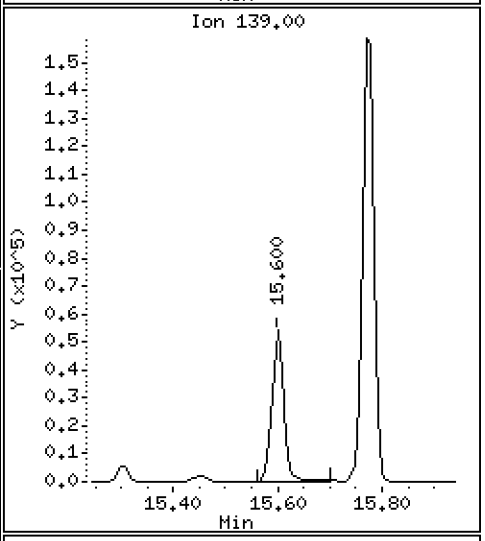
47 4-Nitrophenol

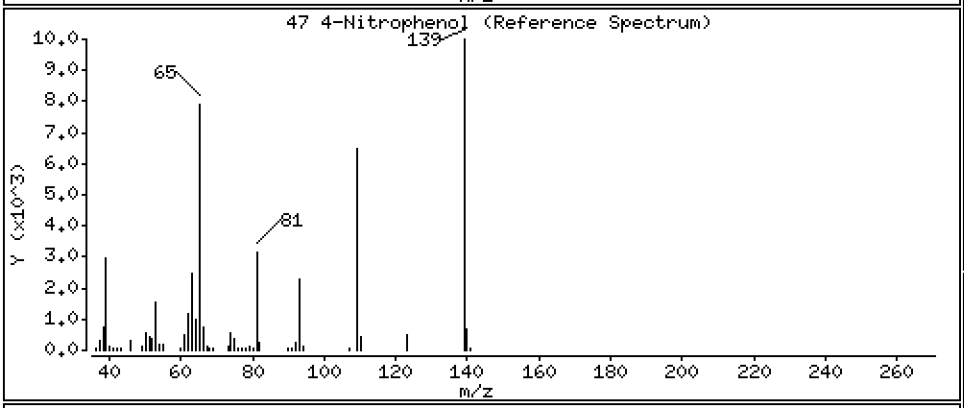
Concentration: 3.966 ug/mL

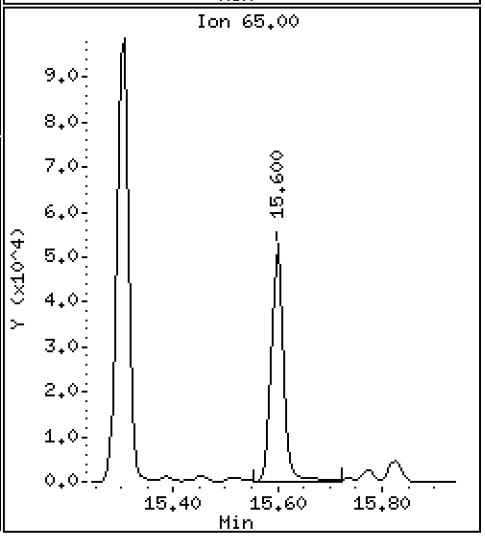


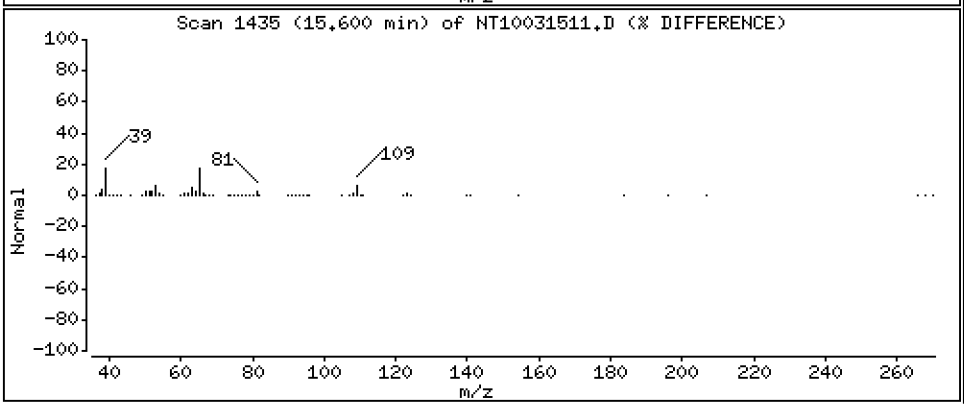












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

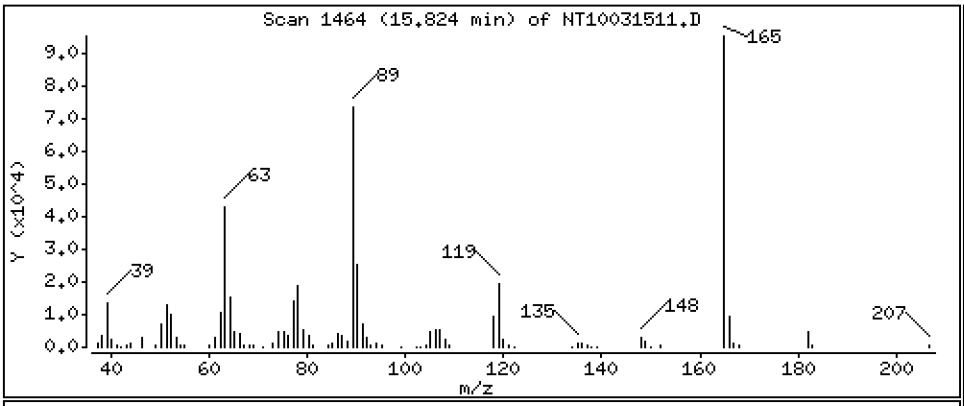
Operator: VTS

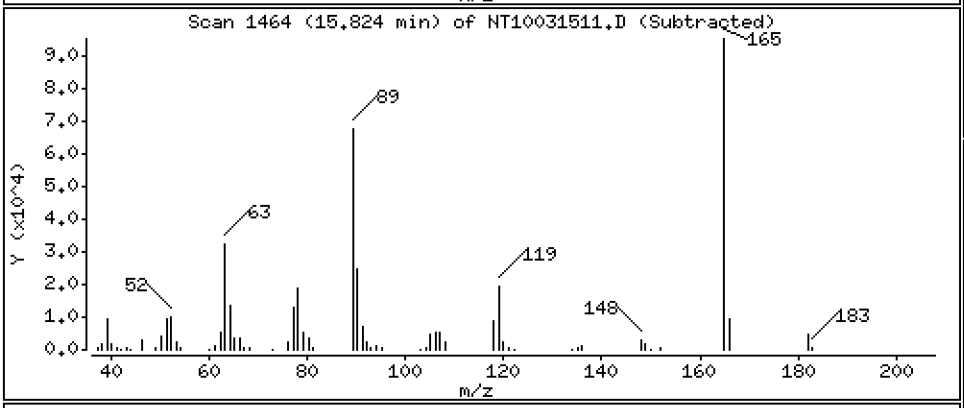
Column phase: ZB-5msi

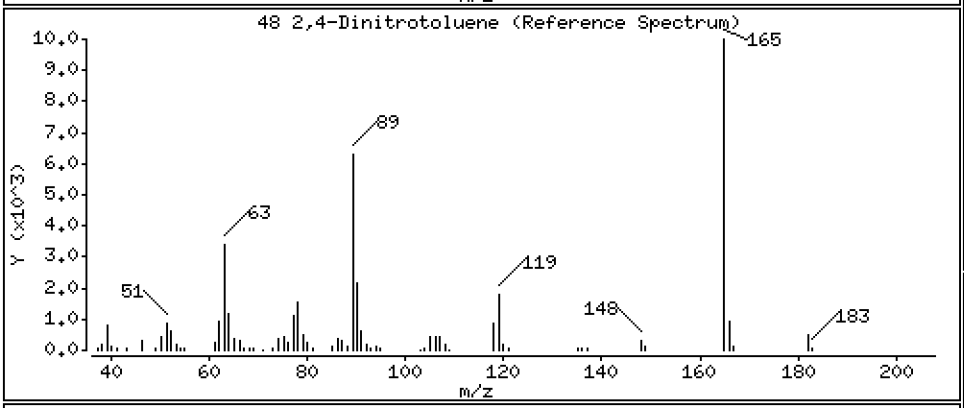
Column diameter: 0.25

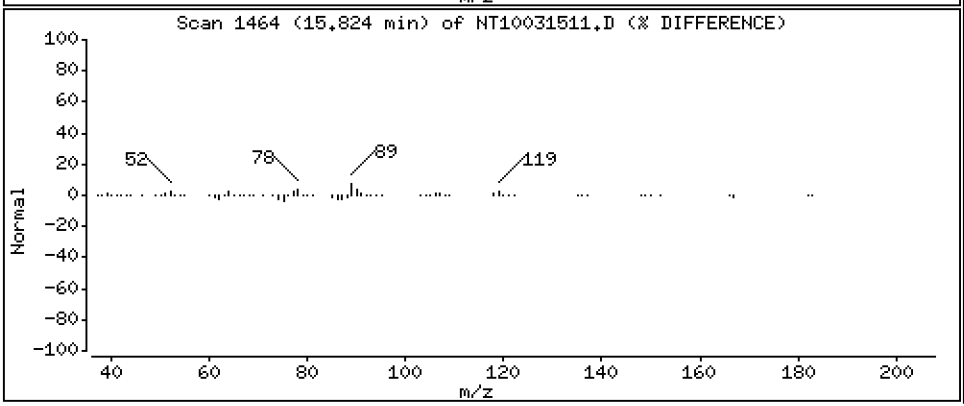
48 2,4-Dinitrotoluene

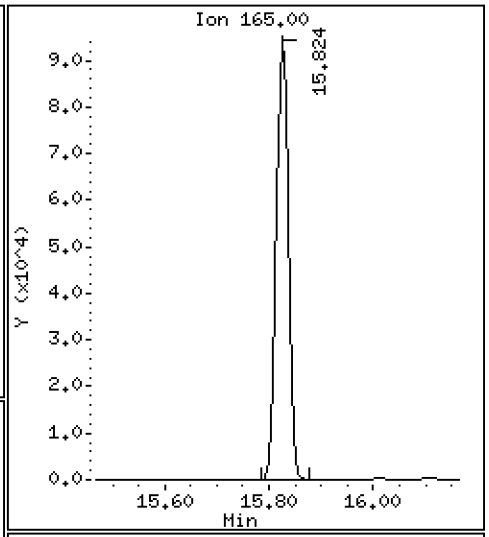
Concentration: 4.510 ug/mL

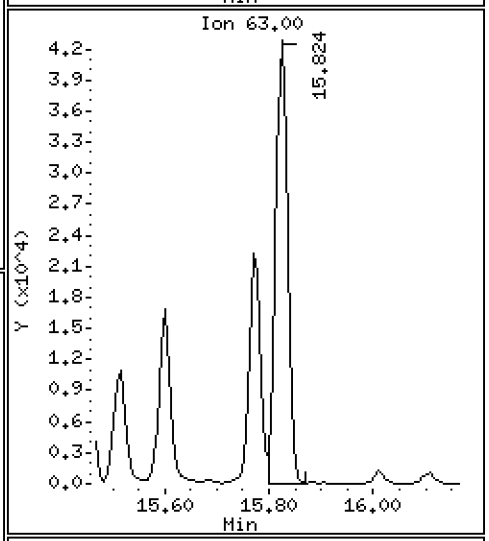


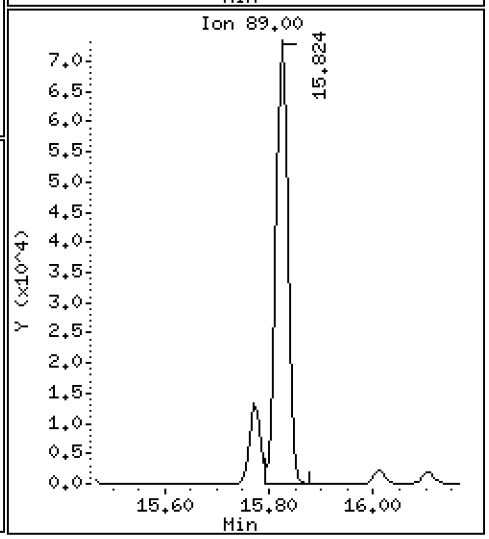












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

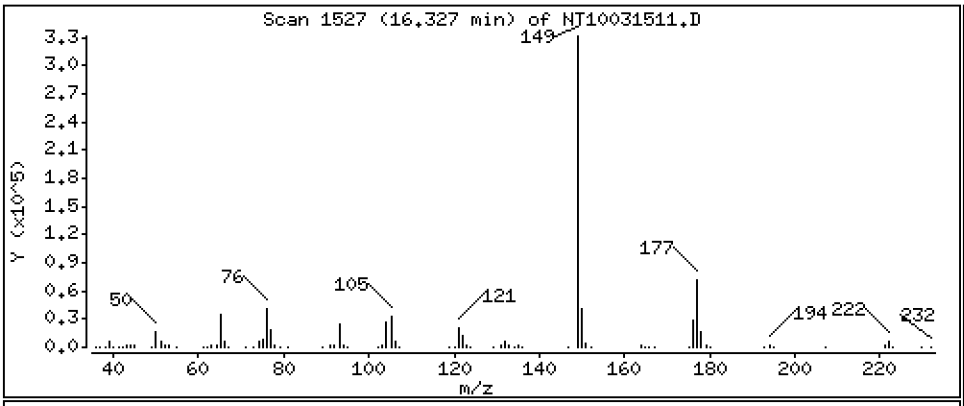
Operator: VTS

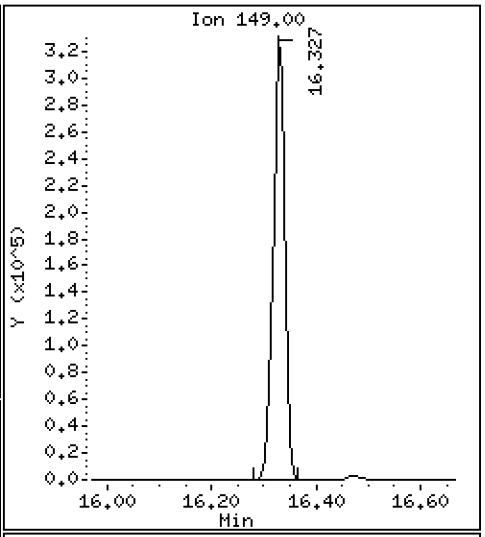
Column phase: ZB-5msi

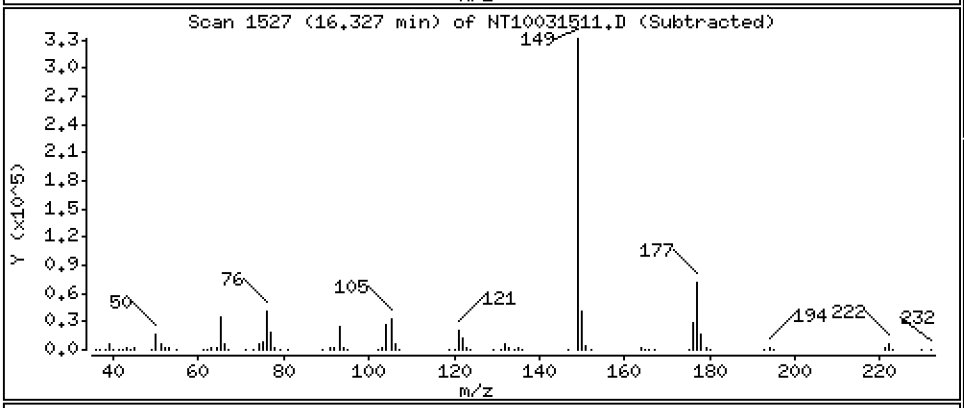
Column diameter: 0.25

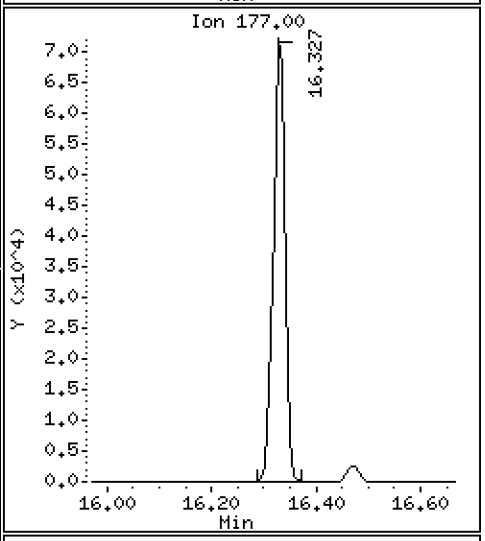
50 Diethylphthalate

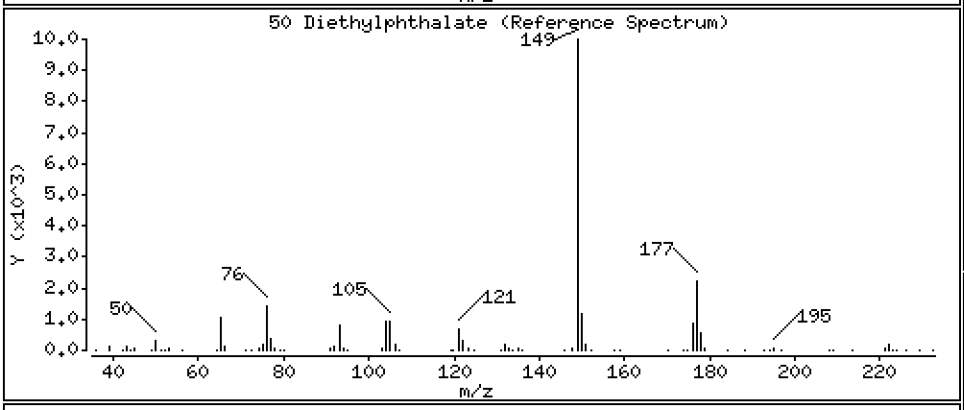
Concentration: 5.209 ug/mL

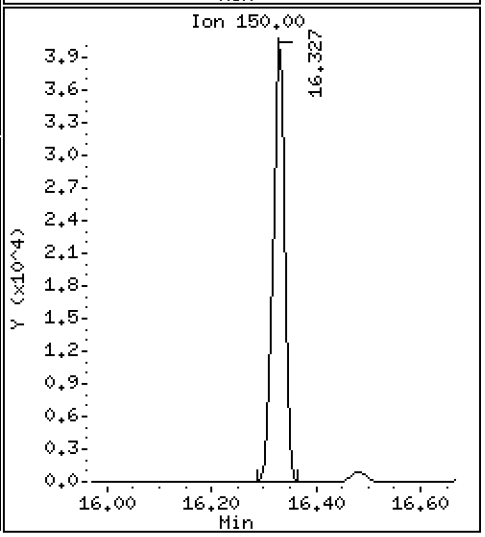


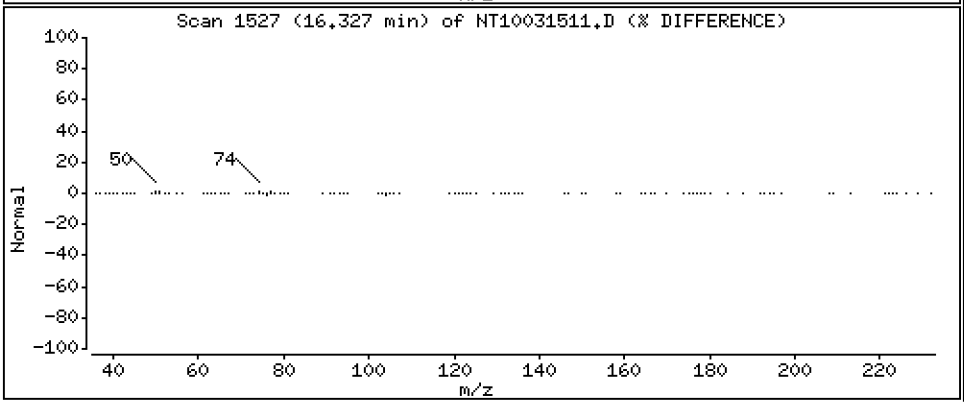












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

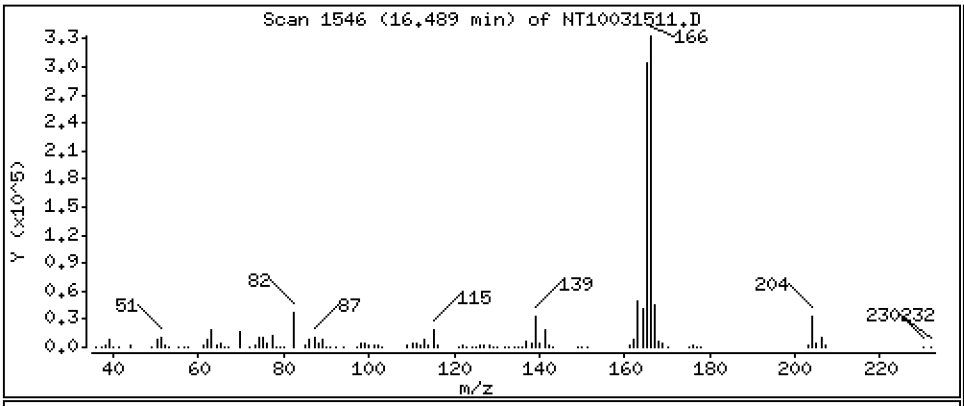
Operator: VTS

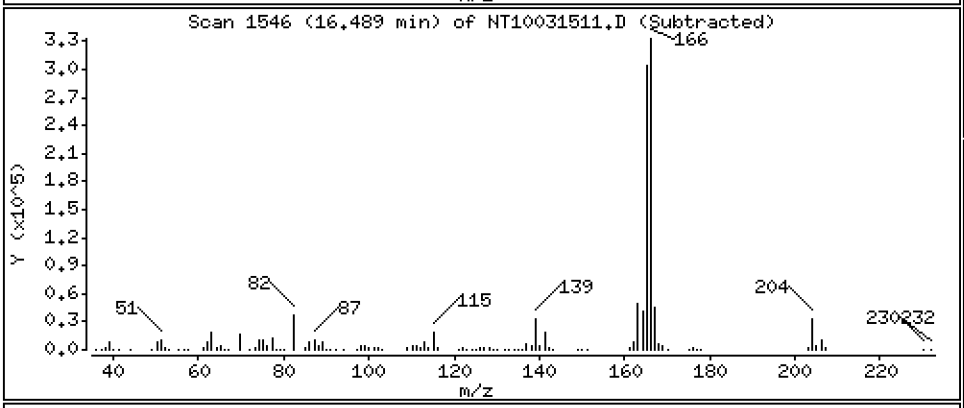
Column phase: ZB-5msi

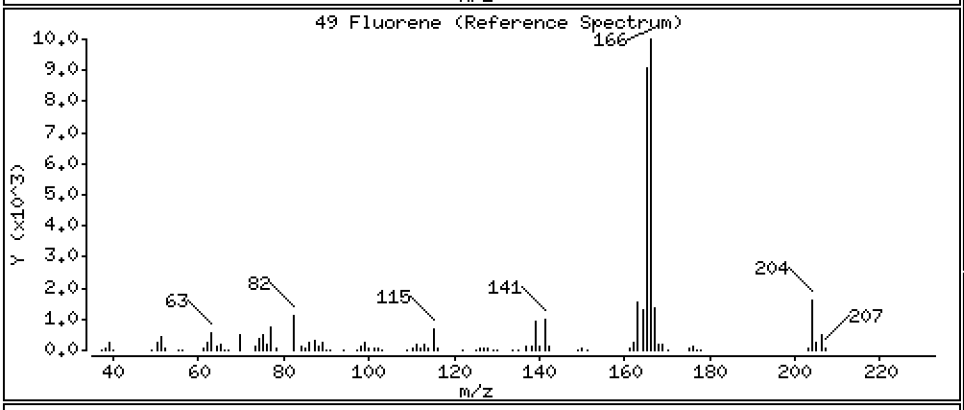
Column diameter: 0.25

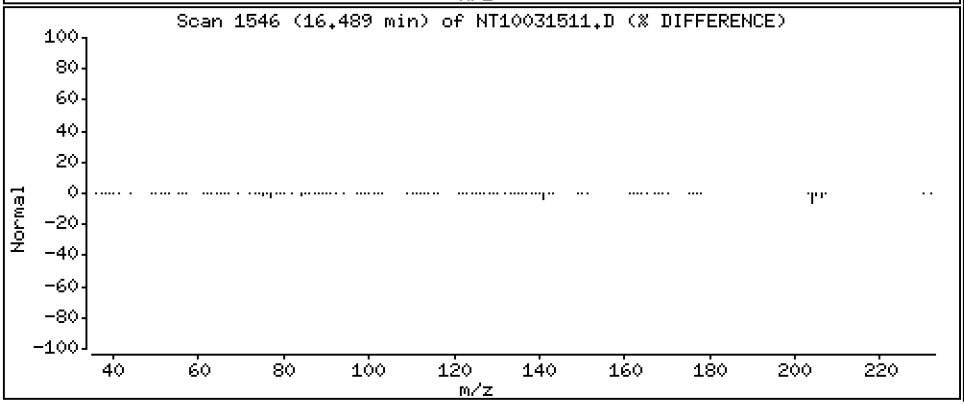
49 Fluorene

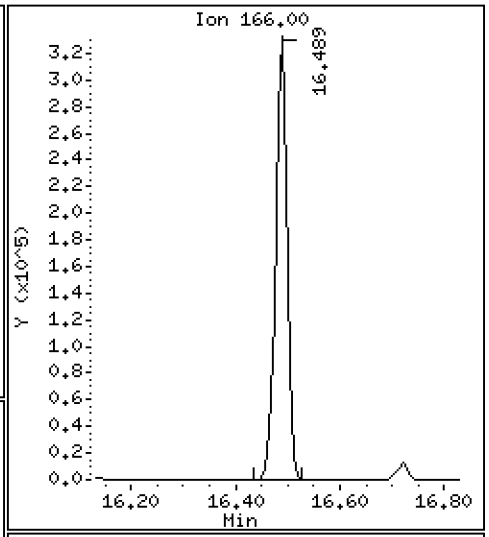
Concentration: 4.708 ug/mL

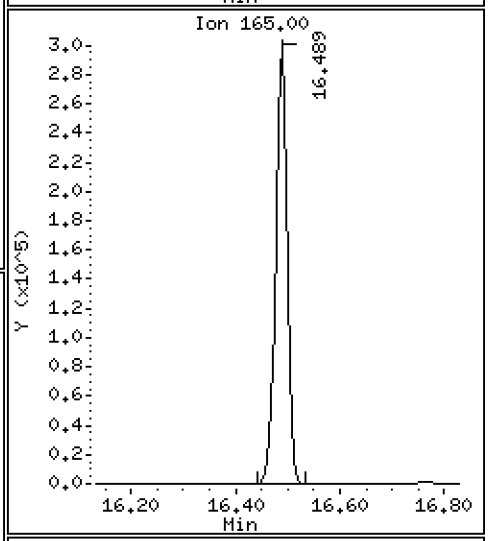


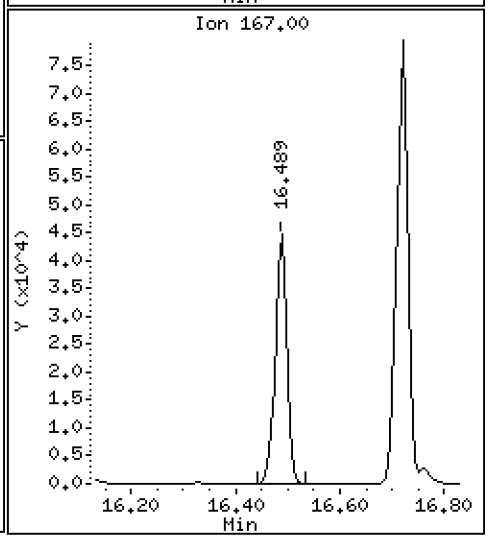












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

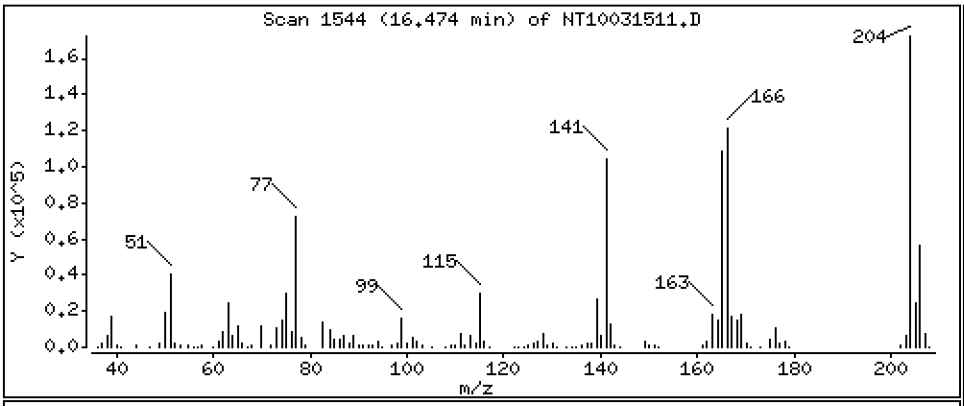
Operator: VTS

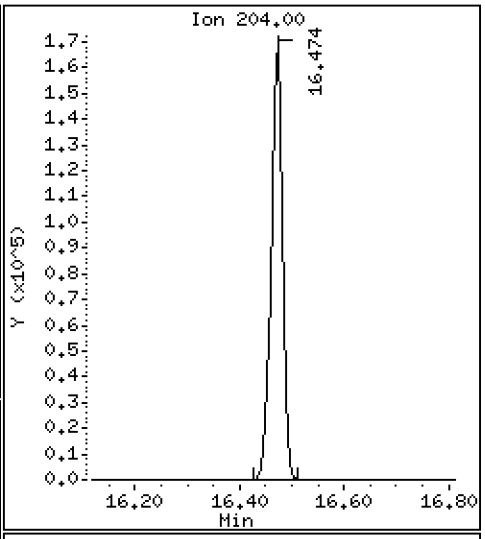
Column phase: ZB-5msi

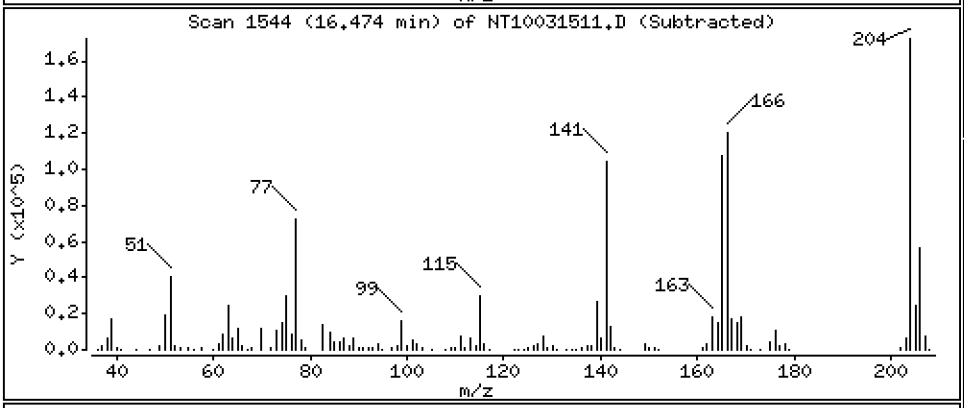
Column diameter: 0.25

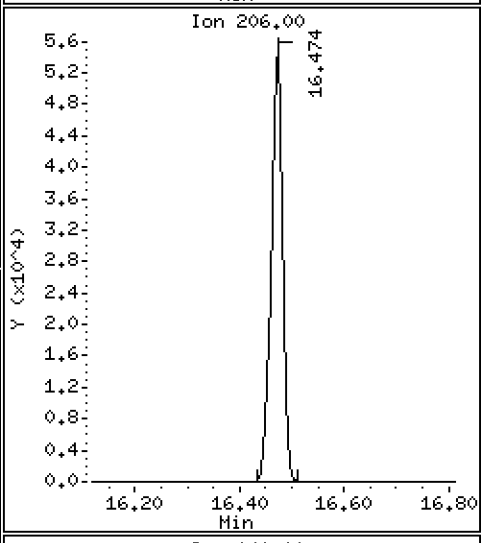
51 4-Chlorophenyl-phenylether

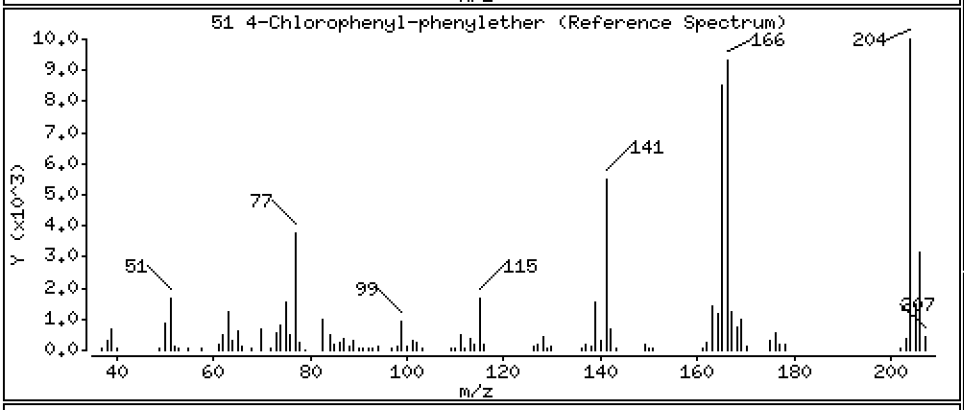
Concentration: 4.993 ug/mL

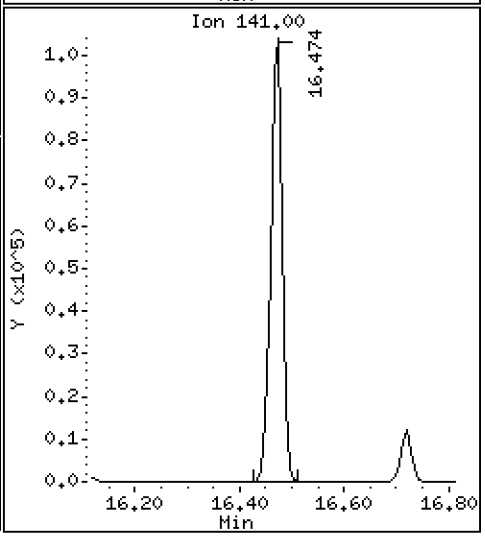


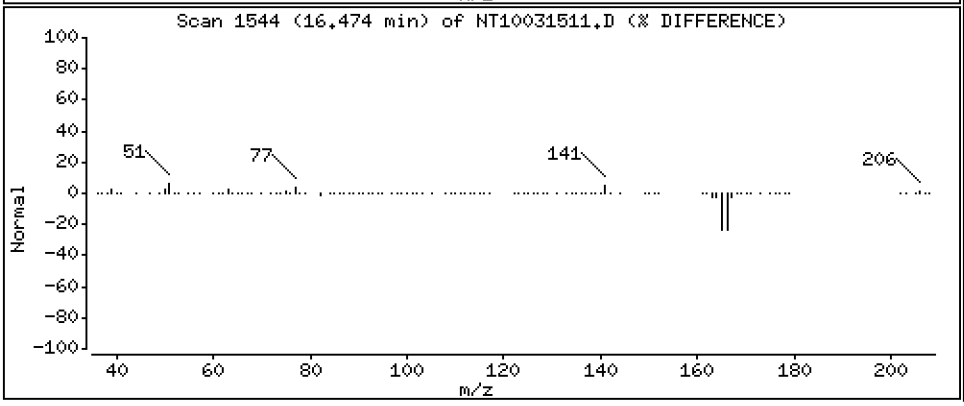












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

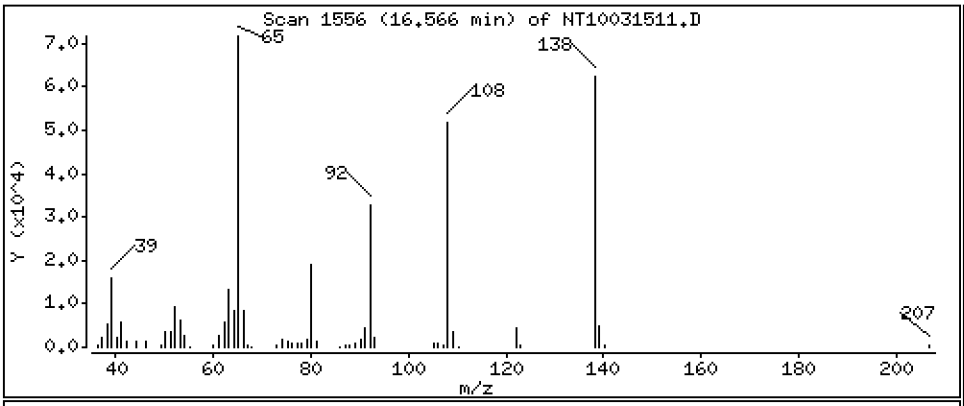
Operator: VTS

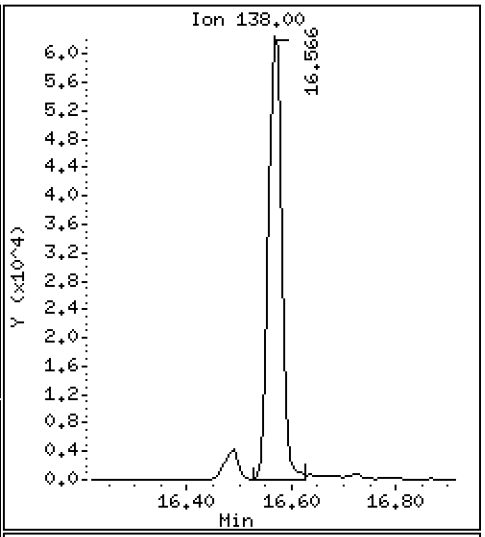
Column phase: ZB-5msi

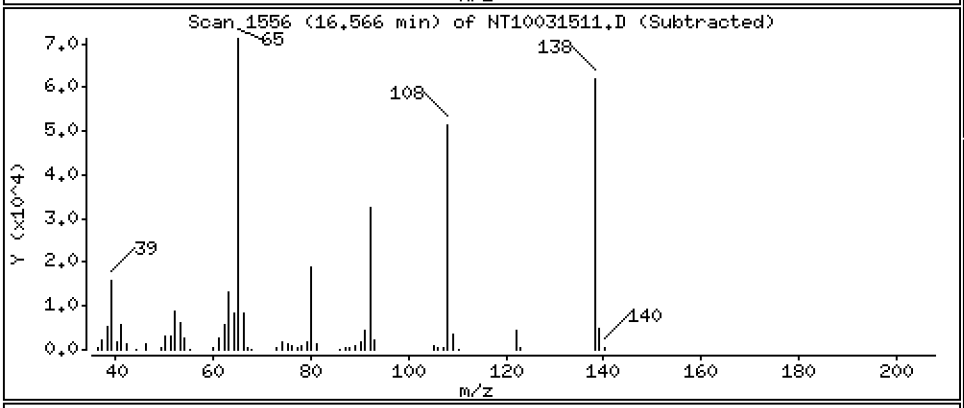
Column diameter: 0.25

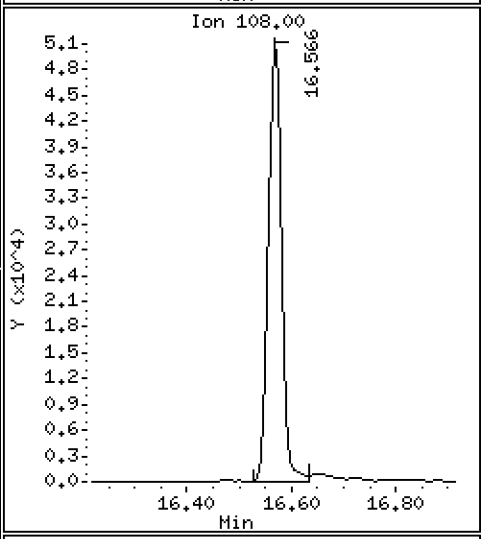
52 4-Nitroaniline

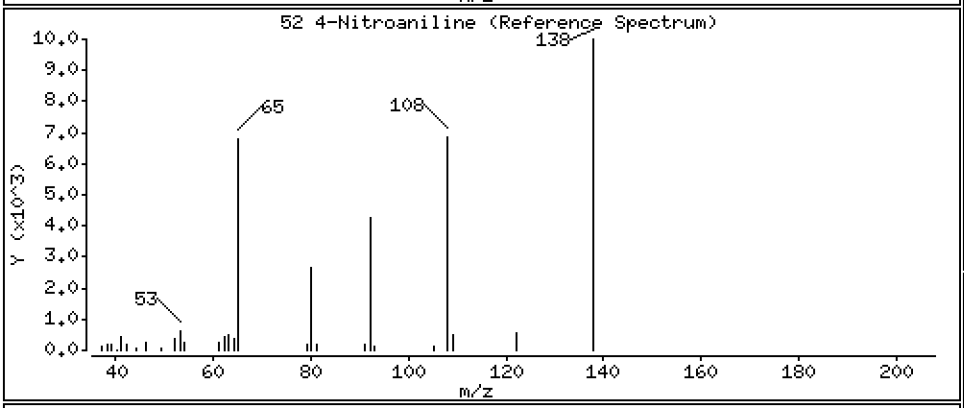
Concentration: 4.925 ug/mL

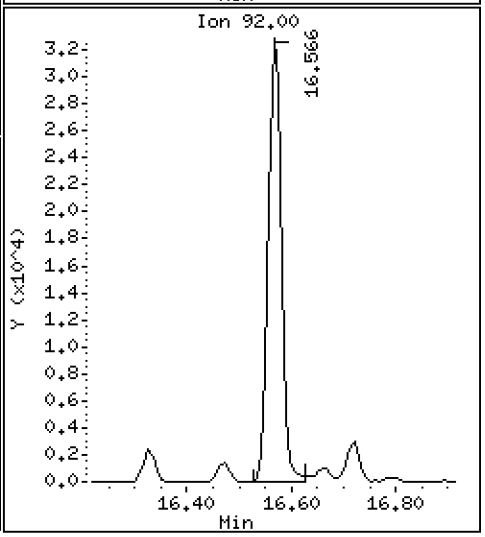


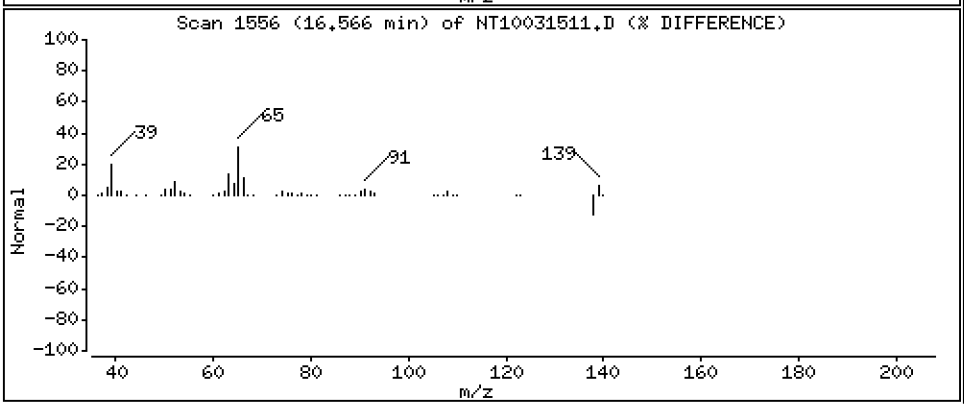












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

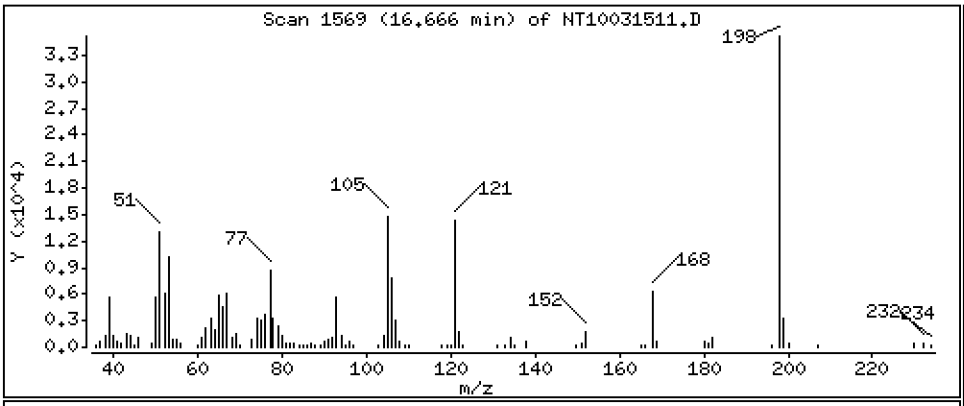
Operator: VTS

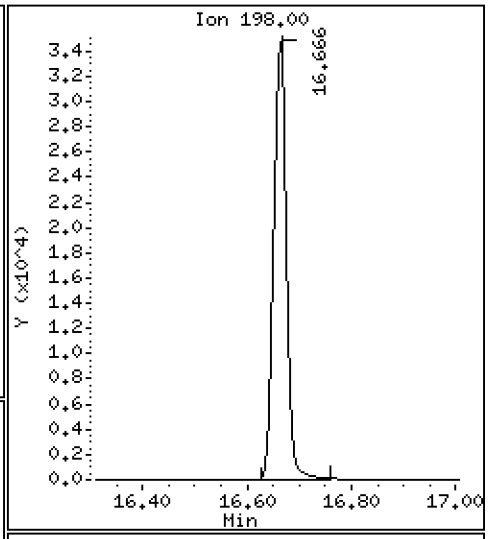
Column phase: ZB-5msi

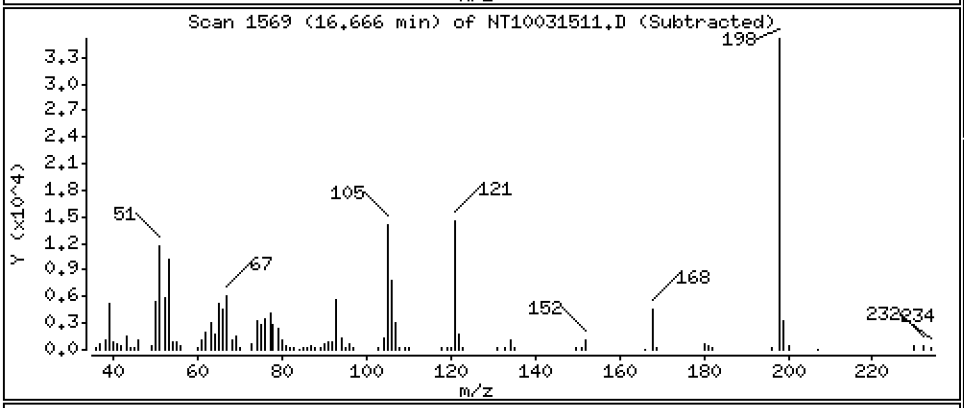
Column diameter: 0.25

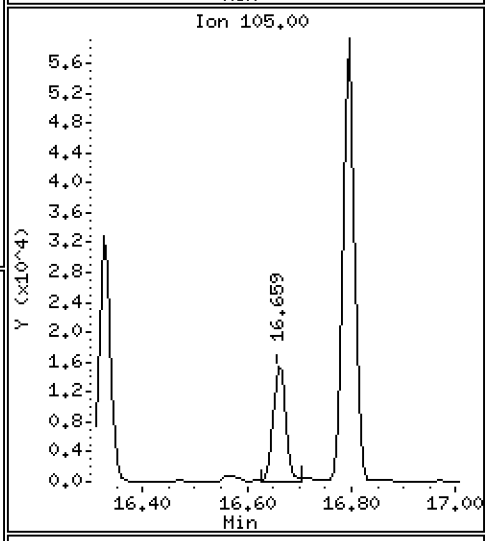
53 4,6-Dinitro-2-methylphenol

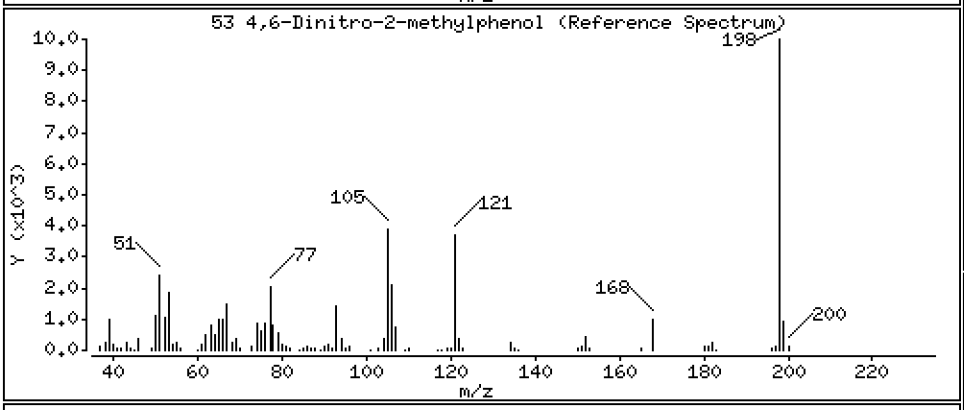
Concentration: 3.515 ug/mL

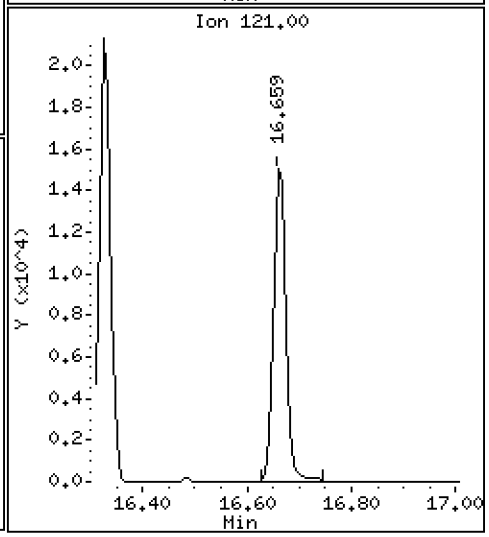


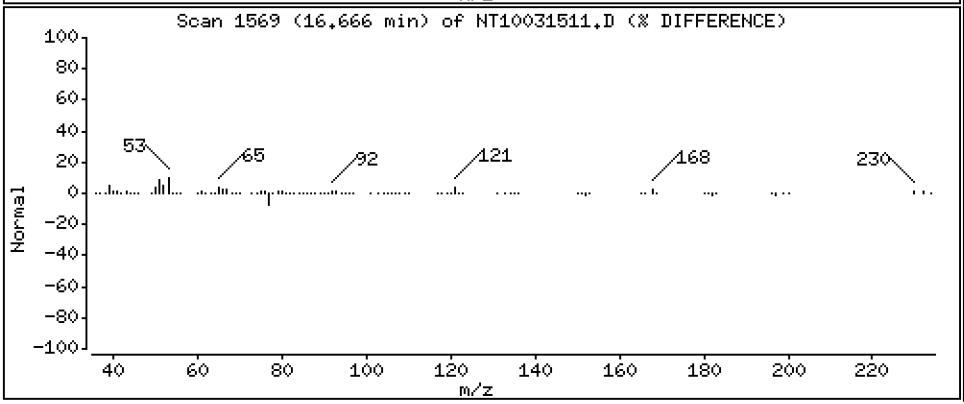












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

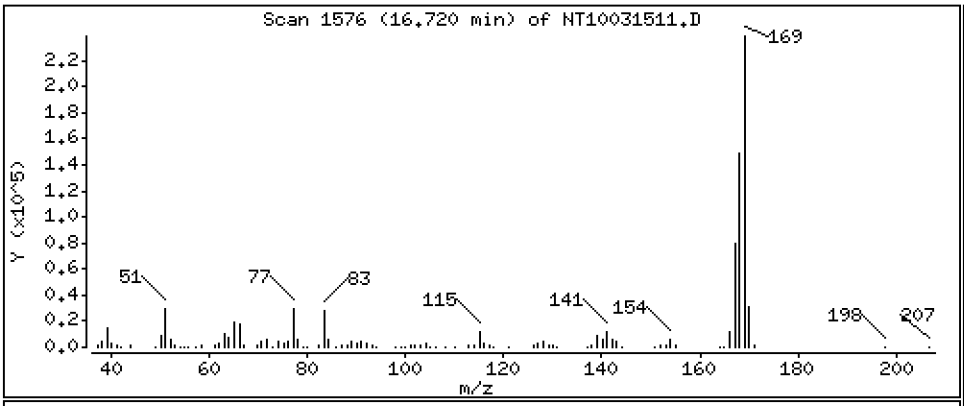
Operator: VTS

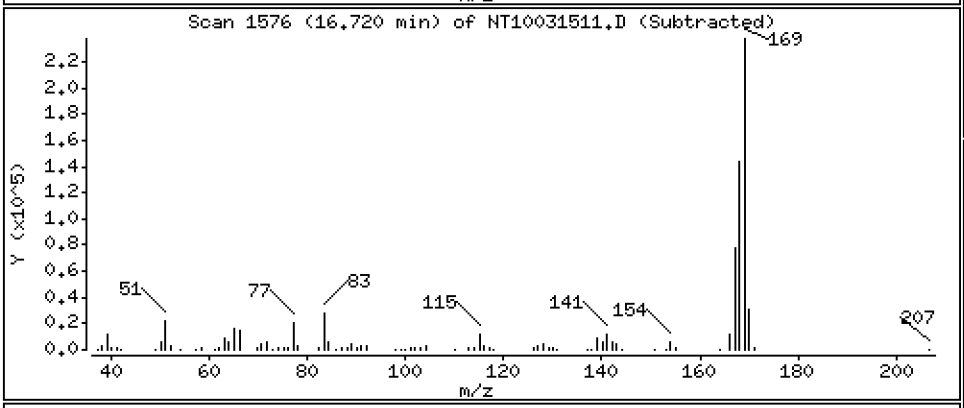
Column phase: ZB-5msi

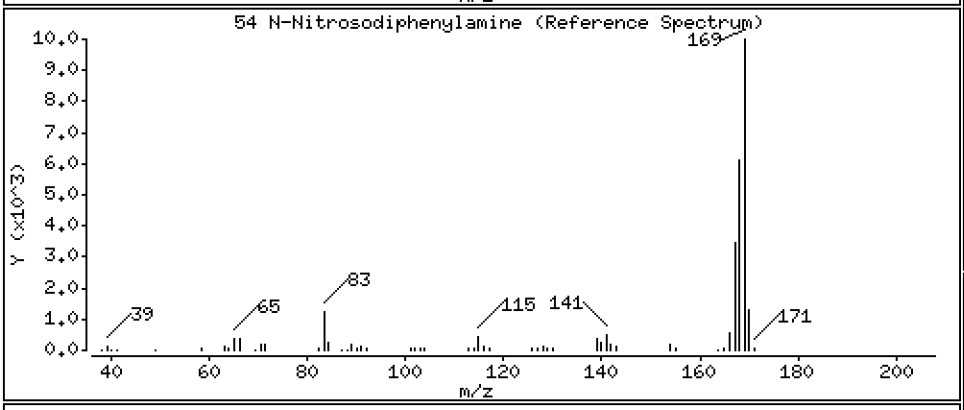
Column diameter: 0.25

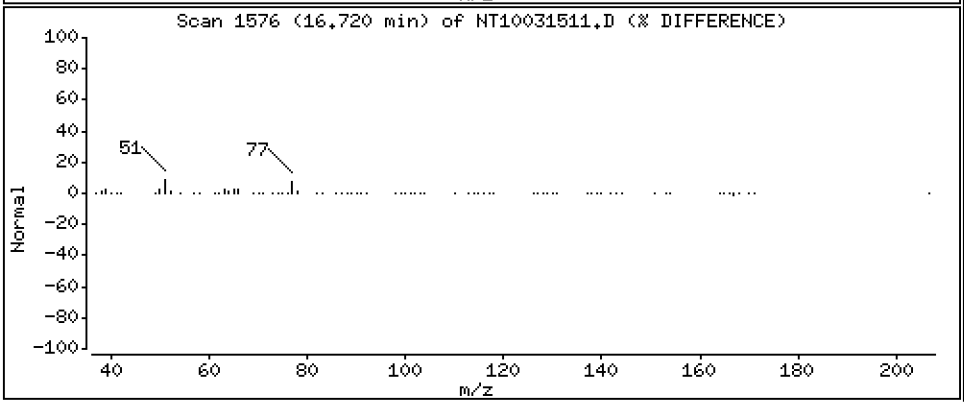
54 N-Nitrosodiphenylamine

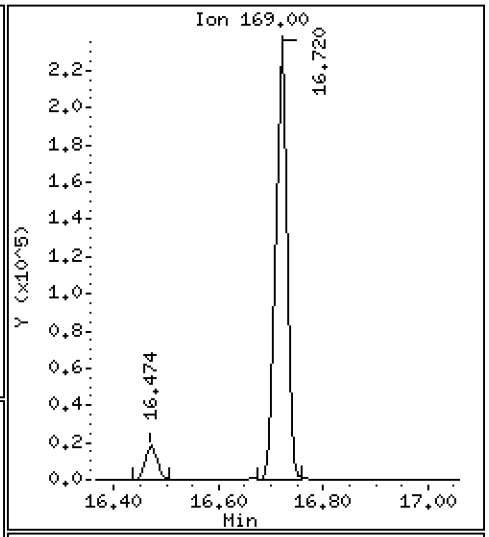
Concentration: 4.802 ug/mL

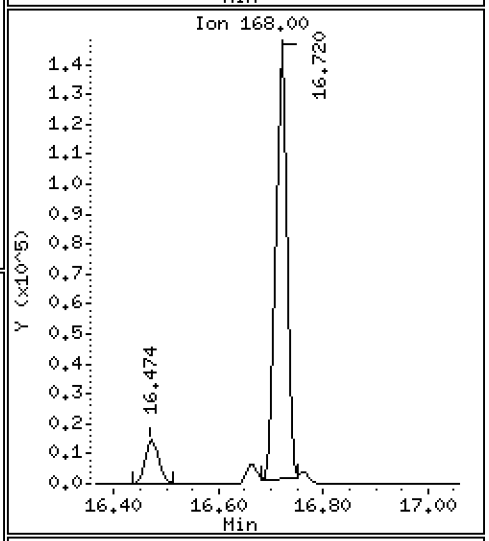


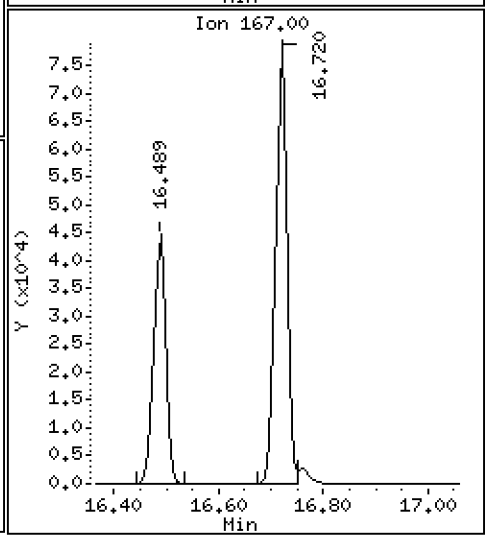












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

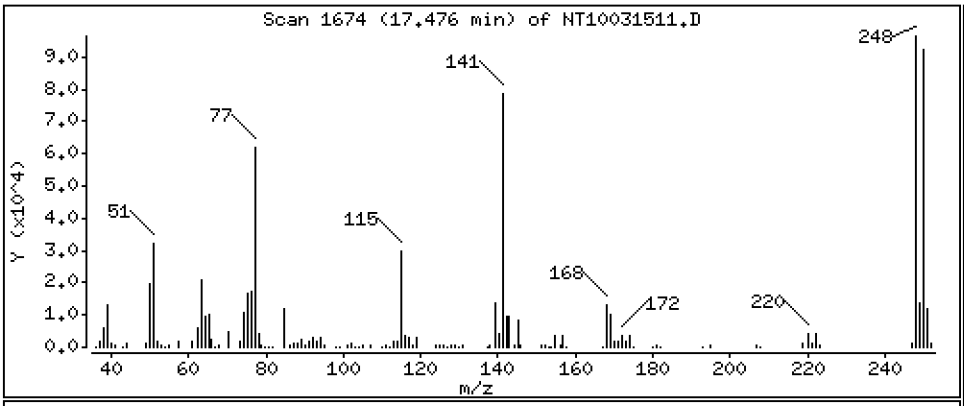
Operator: VTS

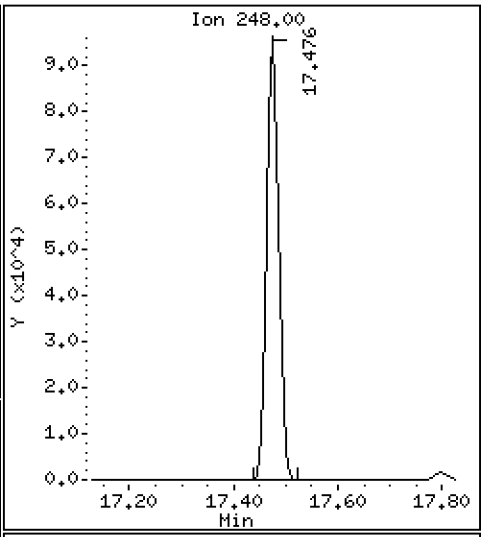
Column phase: ZB-5msi

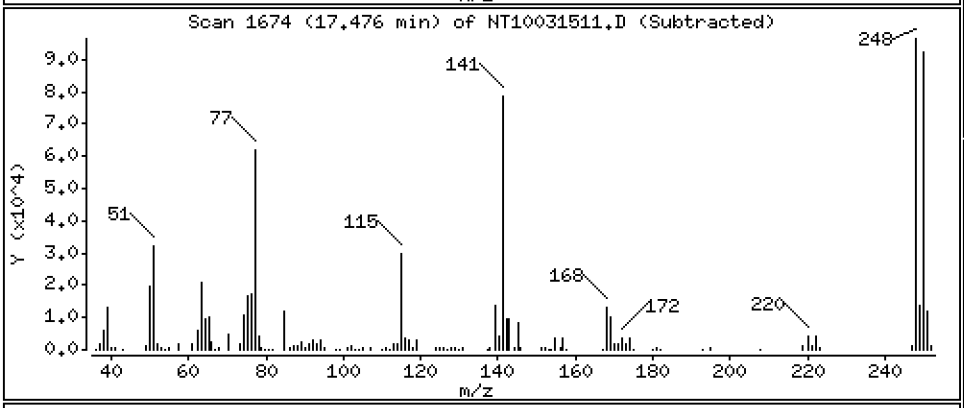
Column diameter: 0.25

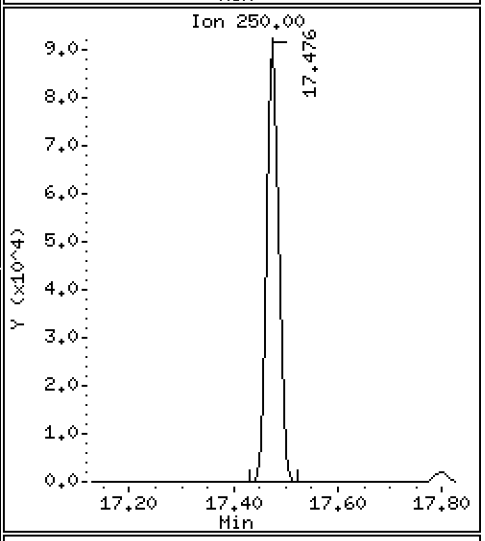
56 4-Bromophenyl-phenylether

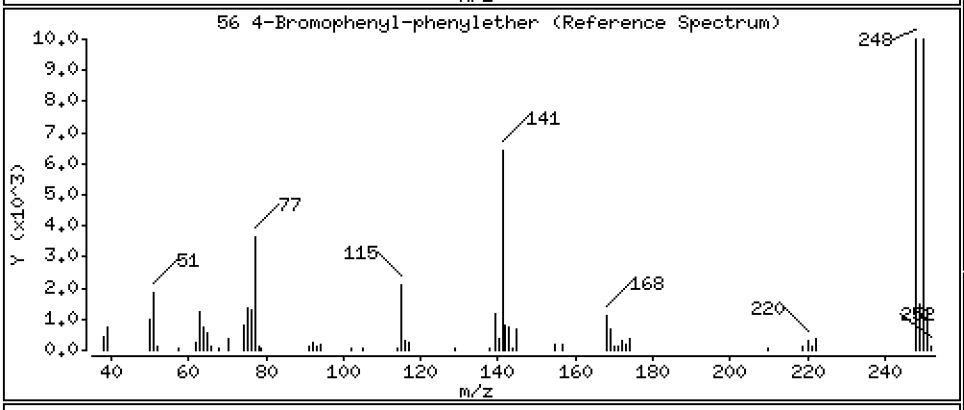
Concentration: 5.060 ug/mL

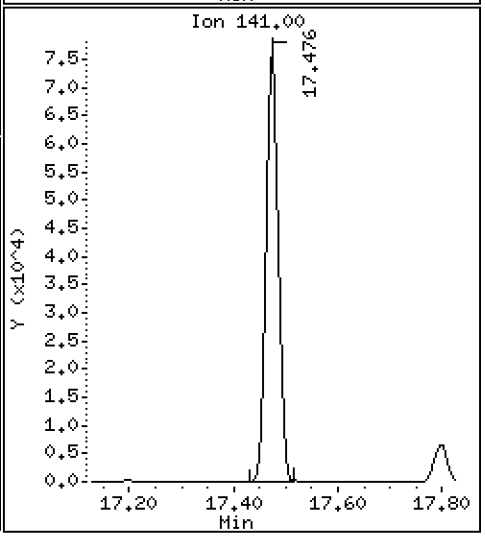


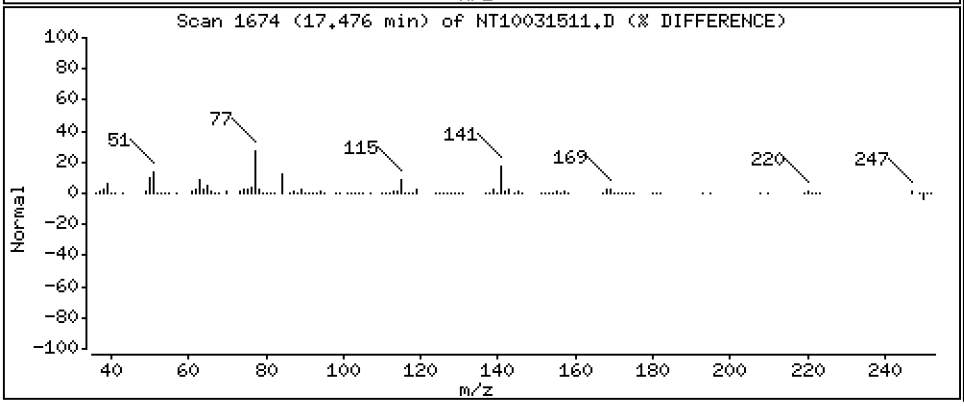












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

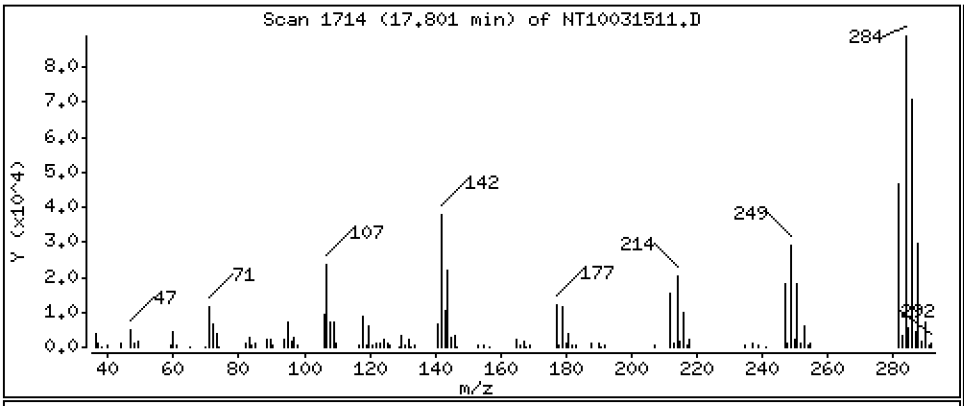
Operator: VTS

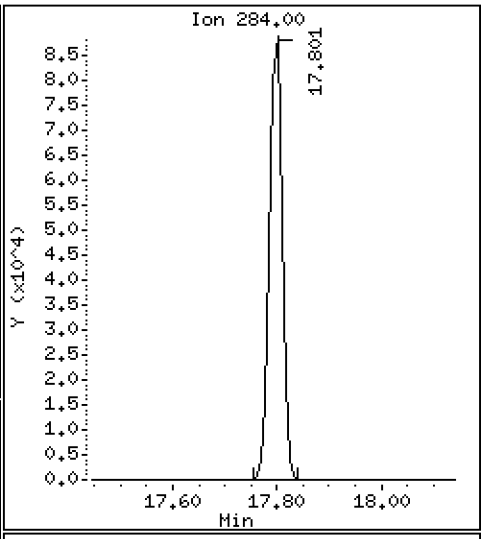
Column phase: ZB-5msi

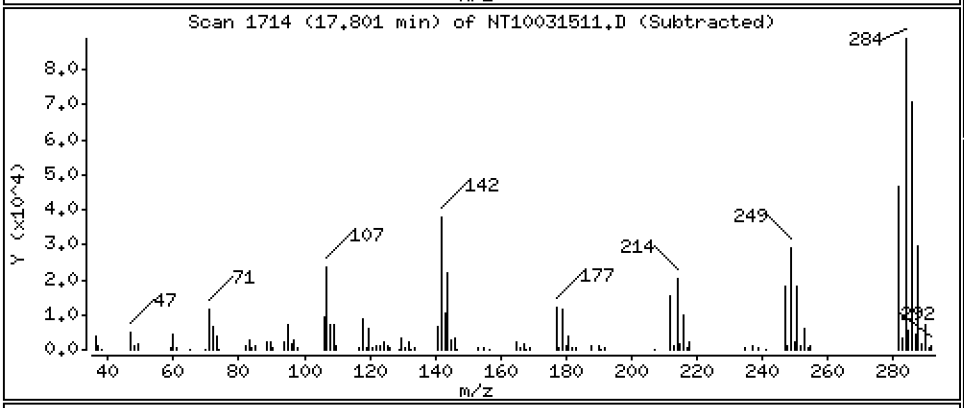
Column diameter: 0.25

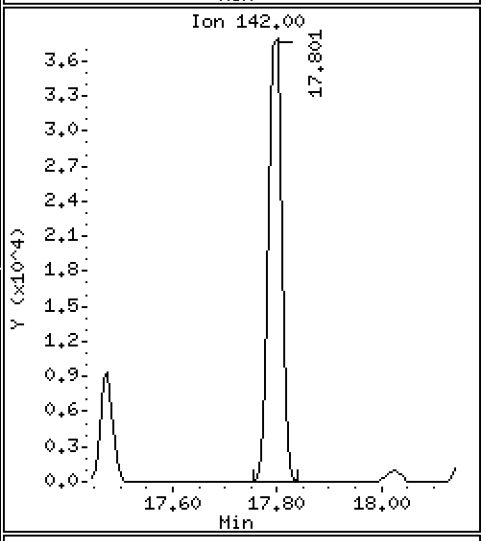
57 Hexachlorobenzene

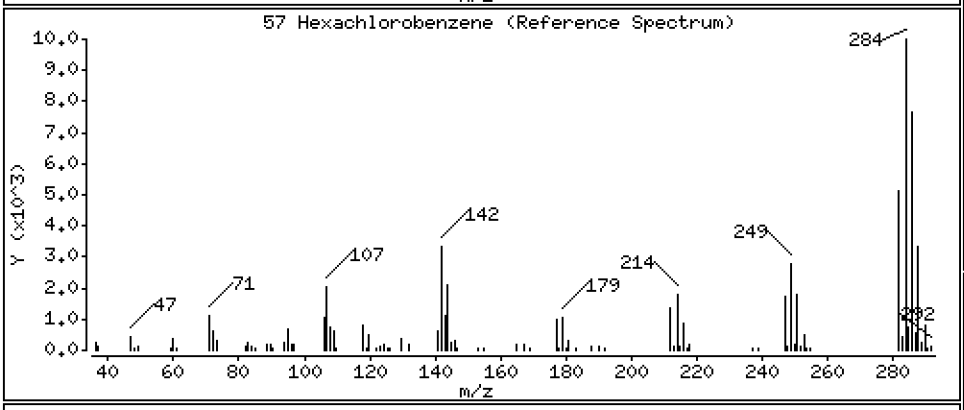
Concentration: 4.596 ug/mL

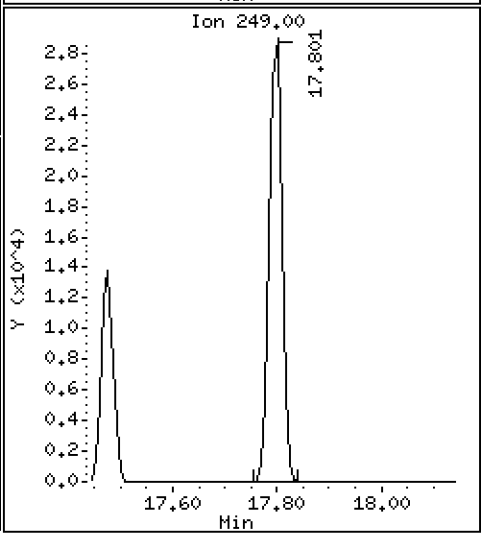


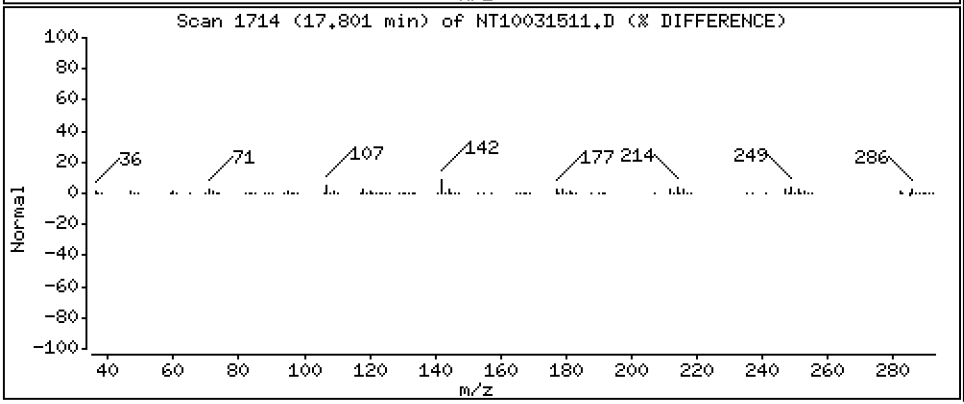












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

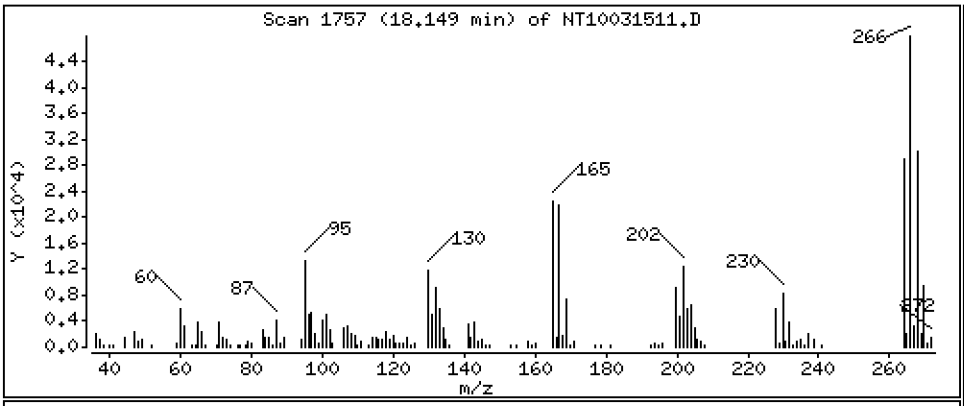
Operator: VTS

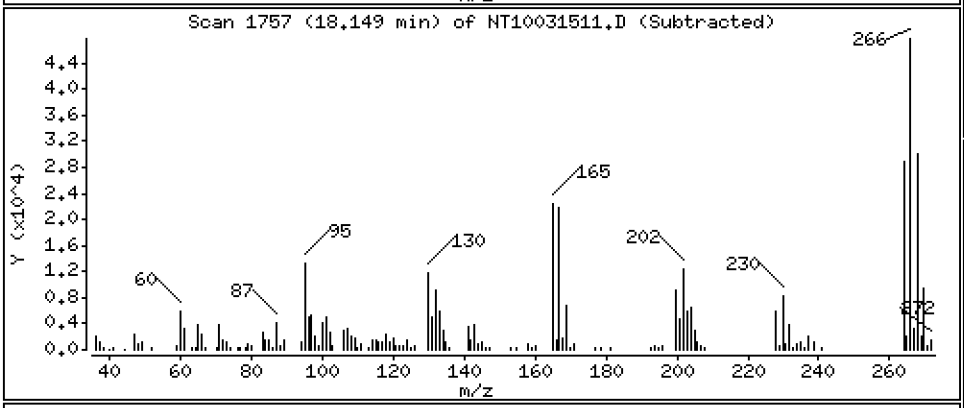
Column phase: ZB-5msi

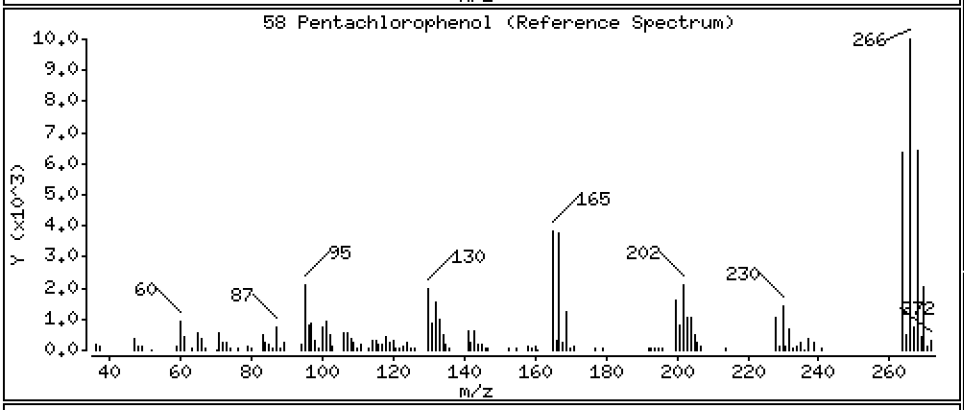
Column diameter: 0.25

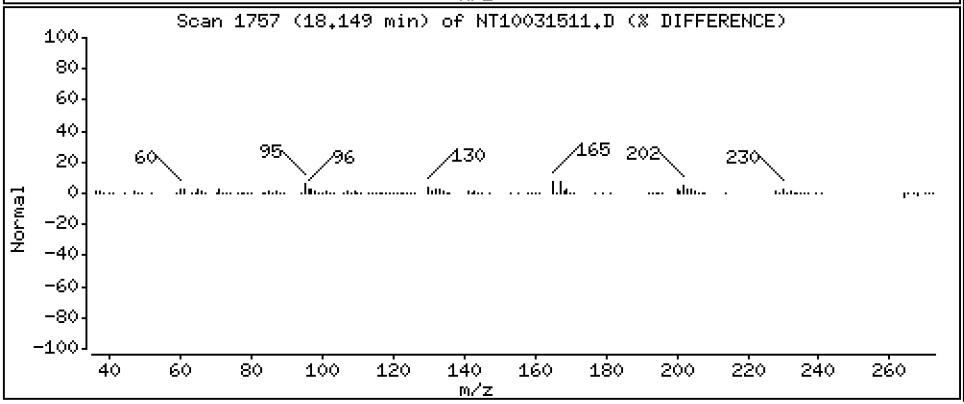
58 Pentachlorophenol

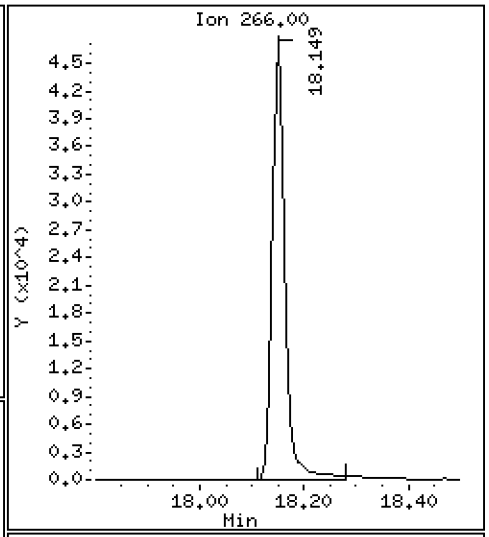
Concentration: 4.057 ug/mL

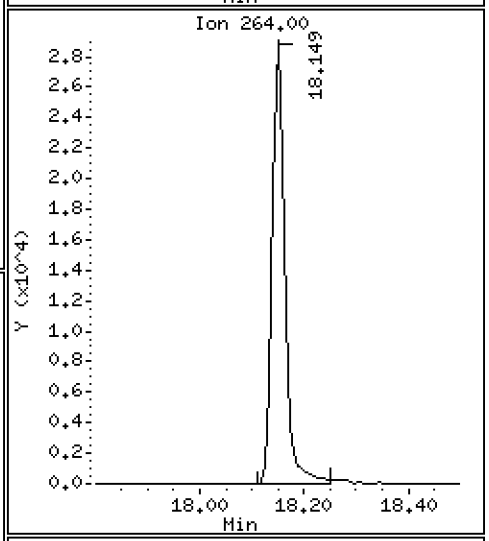


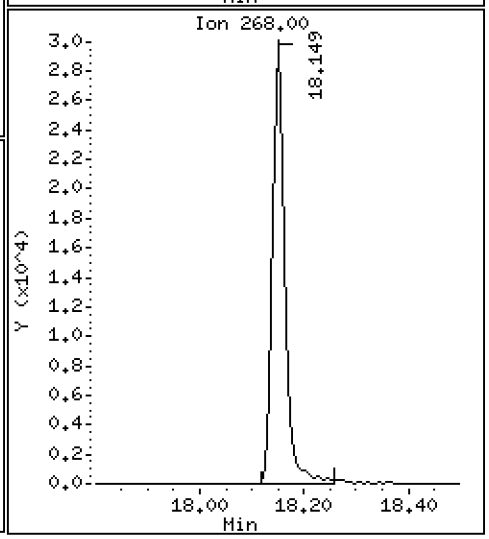












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

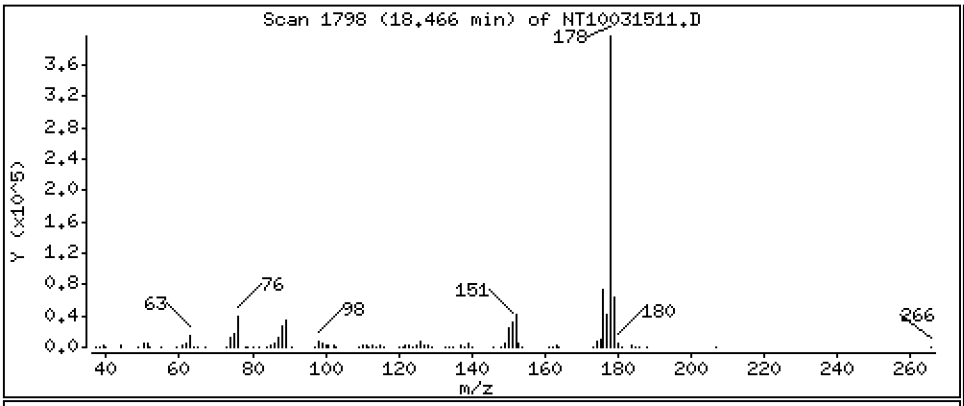
Operator: VTS

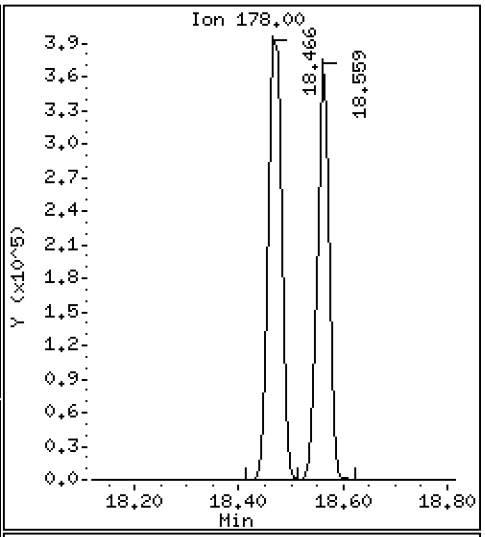
Column phase: ZB-5msi

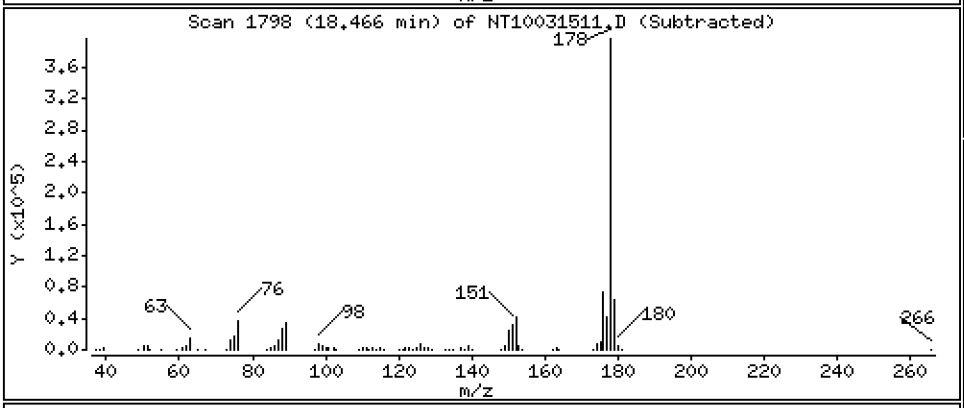
Column diameter: 0.25

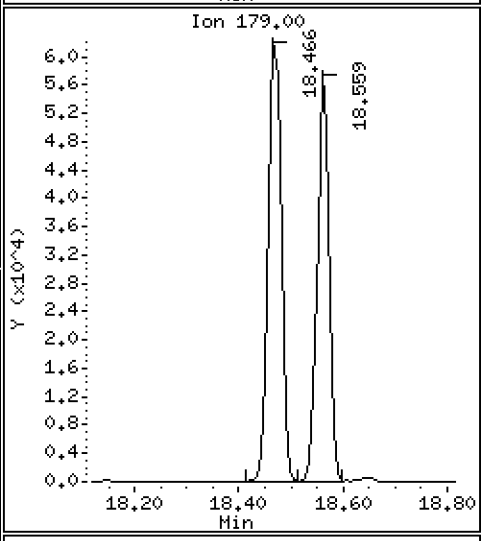
60 Phenanthrene

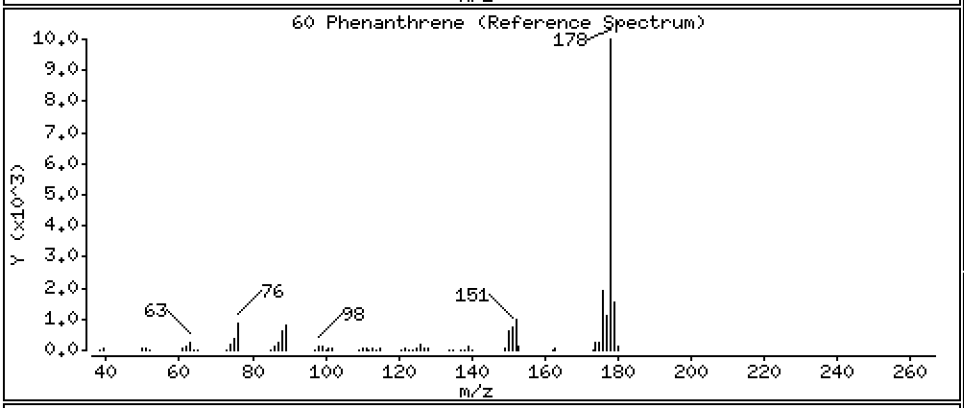
Concentration: 4.602 ug/mL

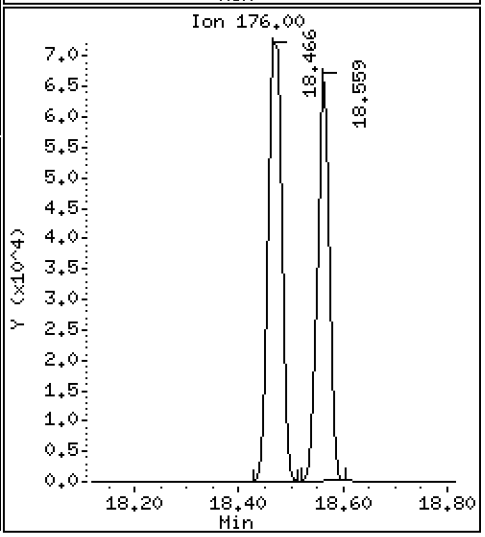


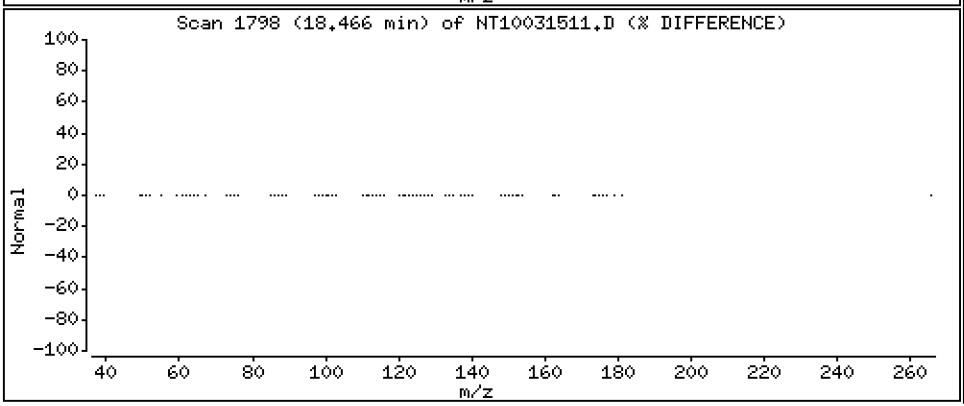












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

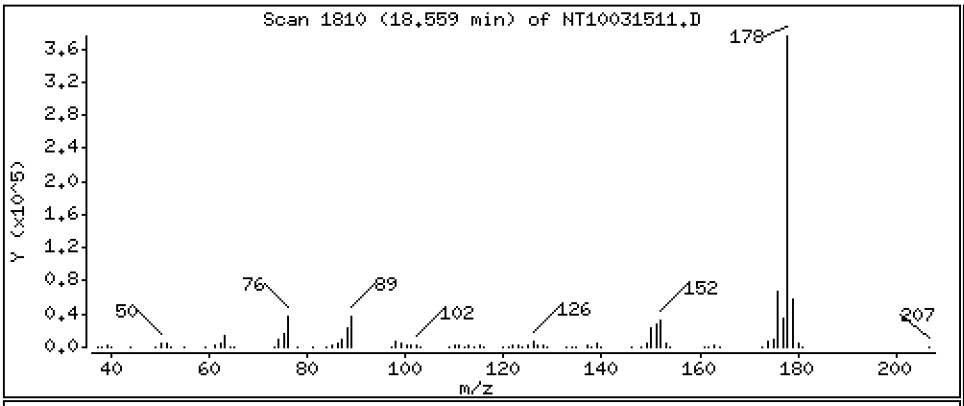
Operator: VTS

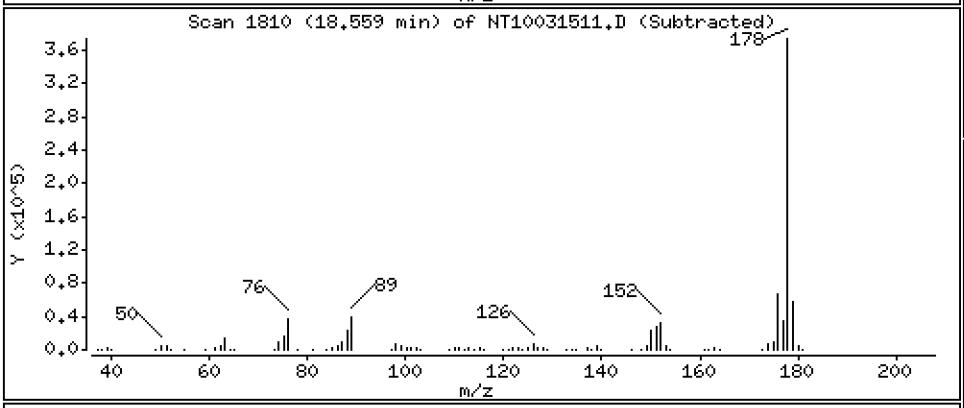
Column phase: ZB-5msi

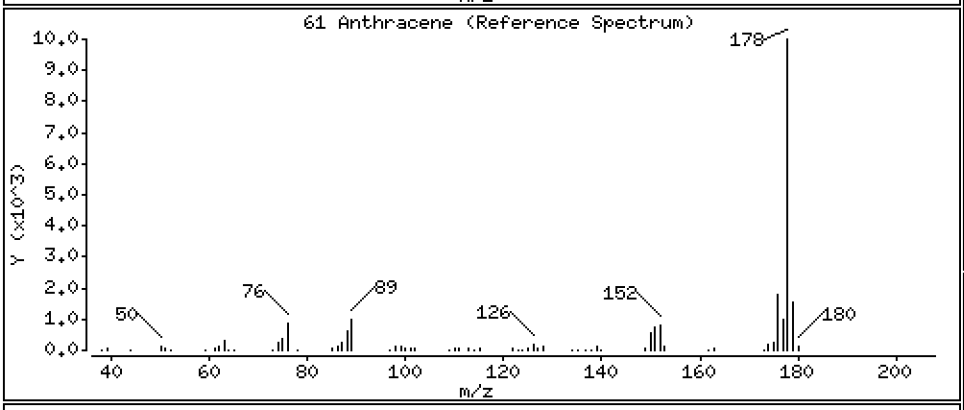
Column diameter: 0.25

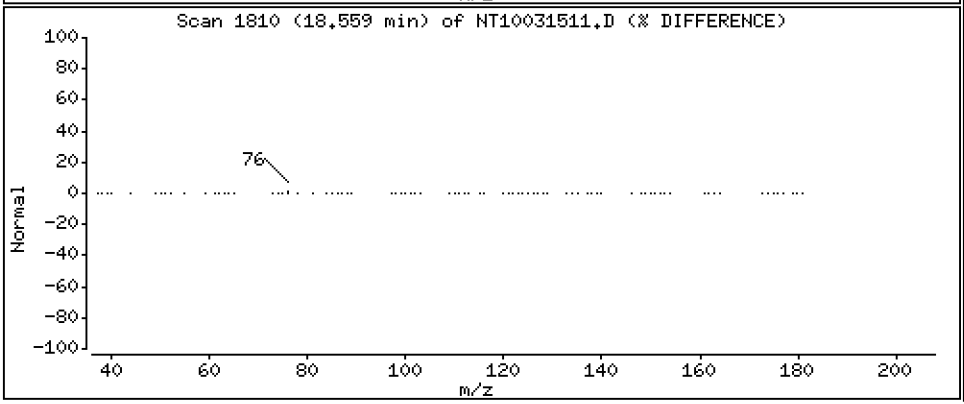
61 Anthracene

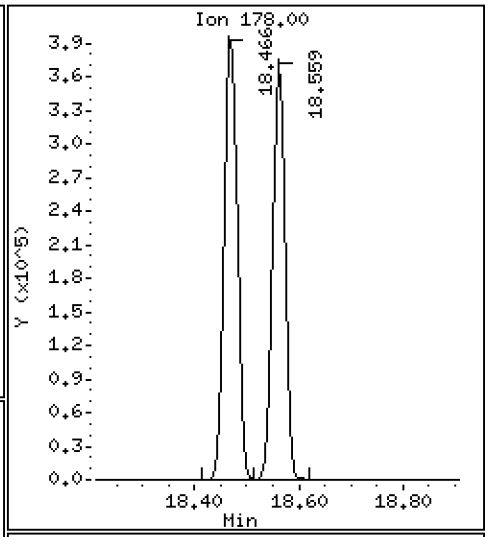
Concentration: 4.167 ug/mL

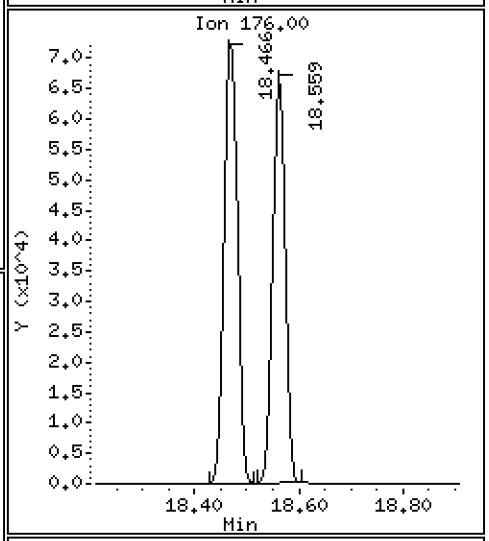


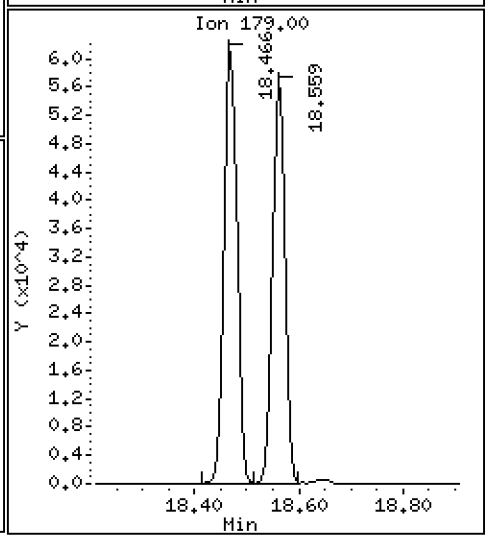












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

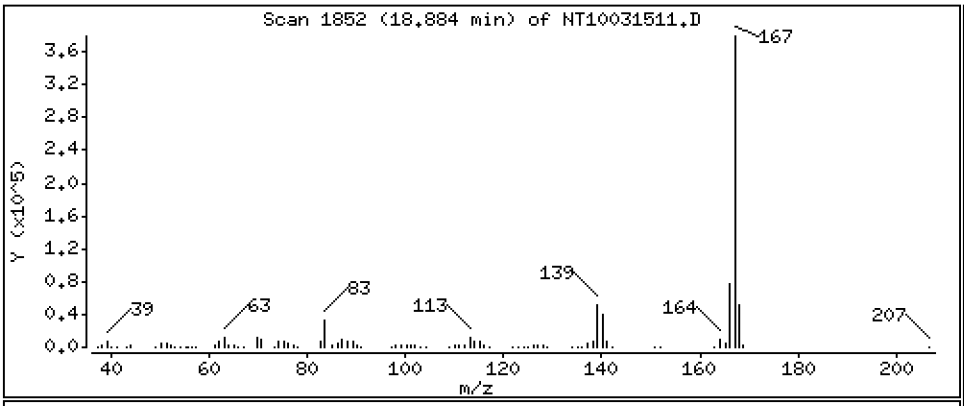
Operator: VTS

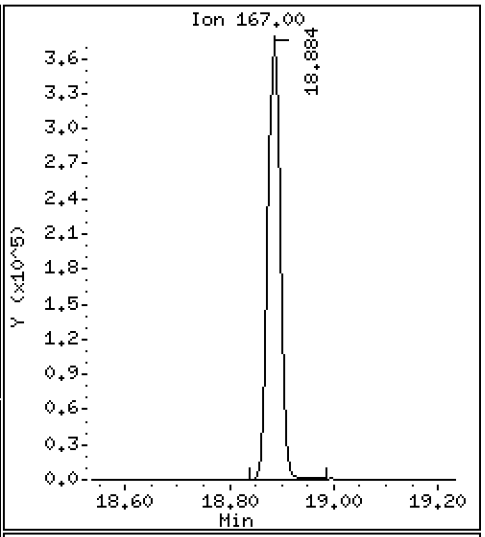
Column phase: ZB-5msi

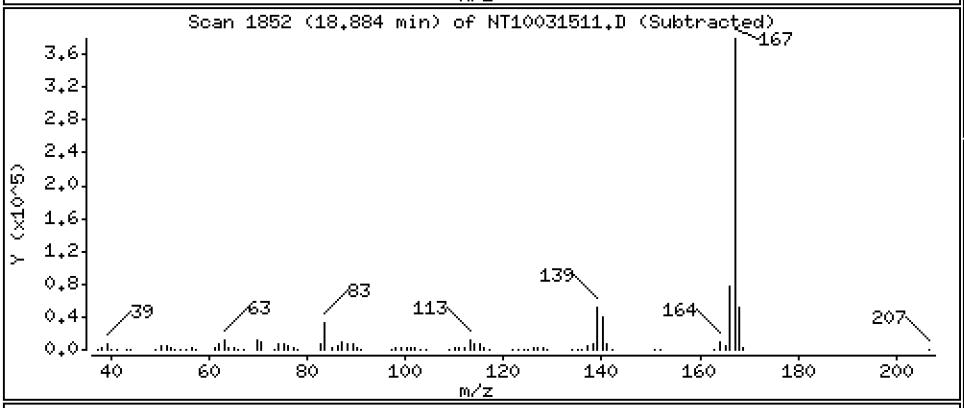
Column diameter: 0.25

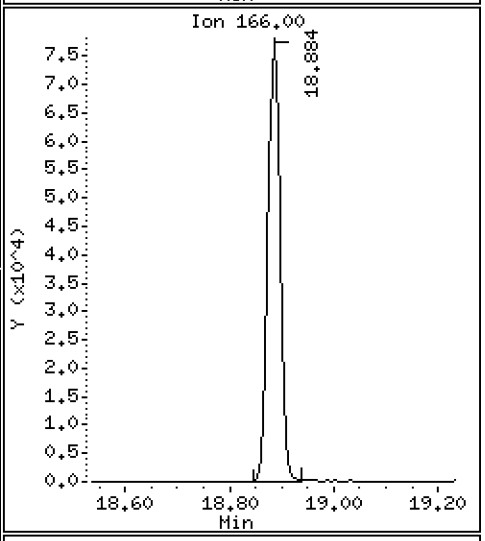
62 Carbazole

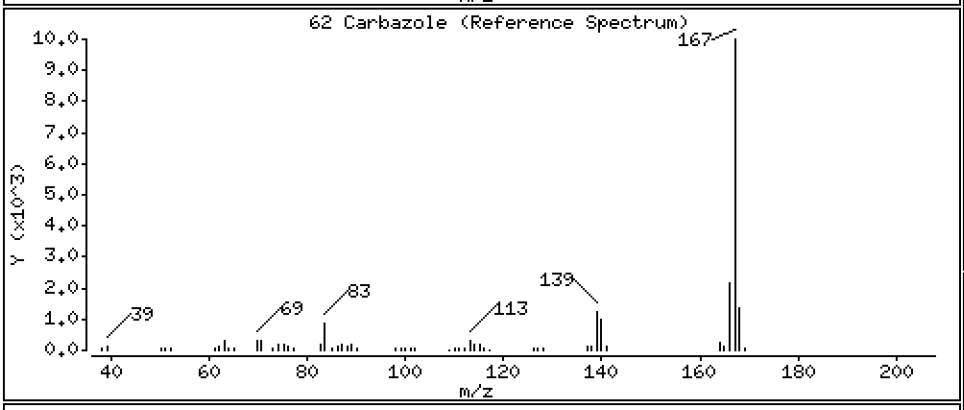
Concentration: 4.730 ug/mL

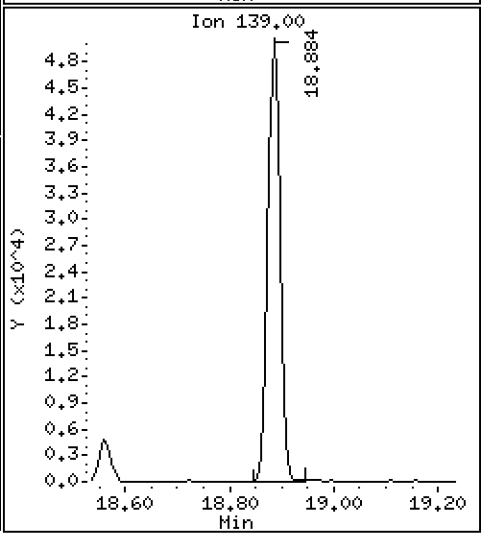


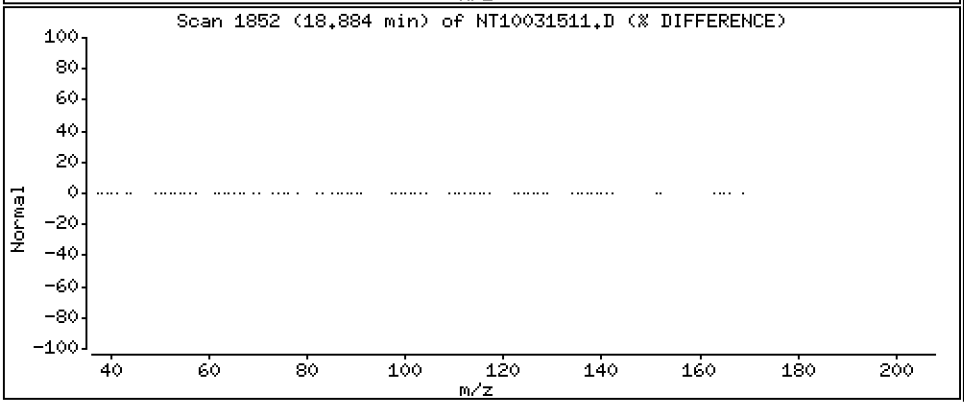












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

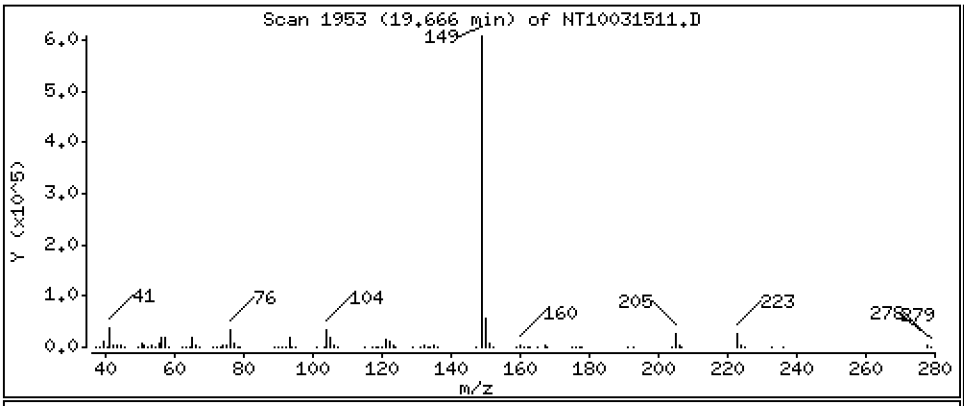
Operator: VTS

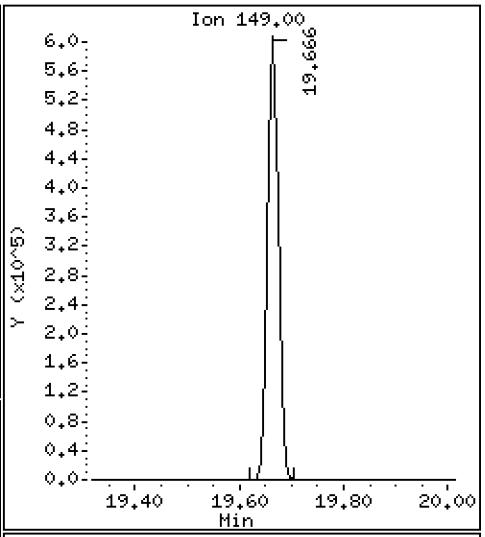
Column phase: ZB-5msi

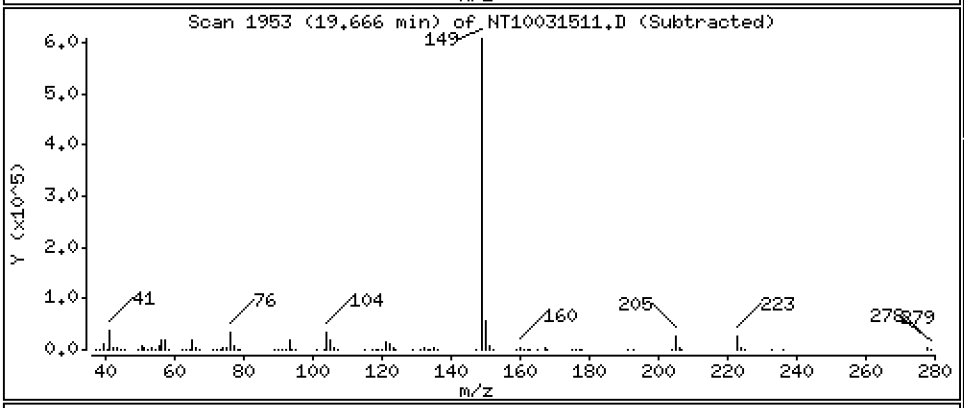
Column diameter: 0.25

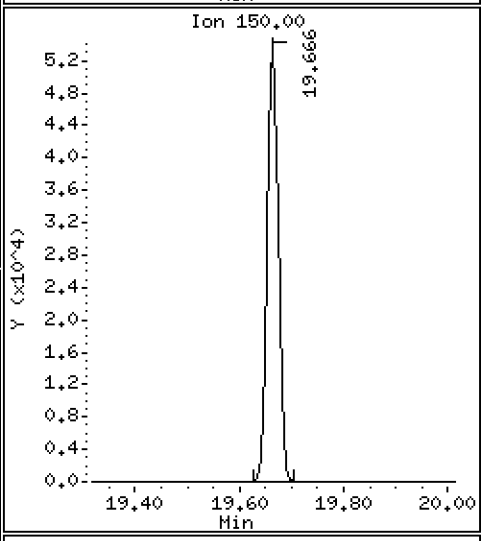
63 Di-n-butylphthalate

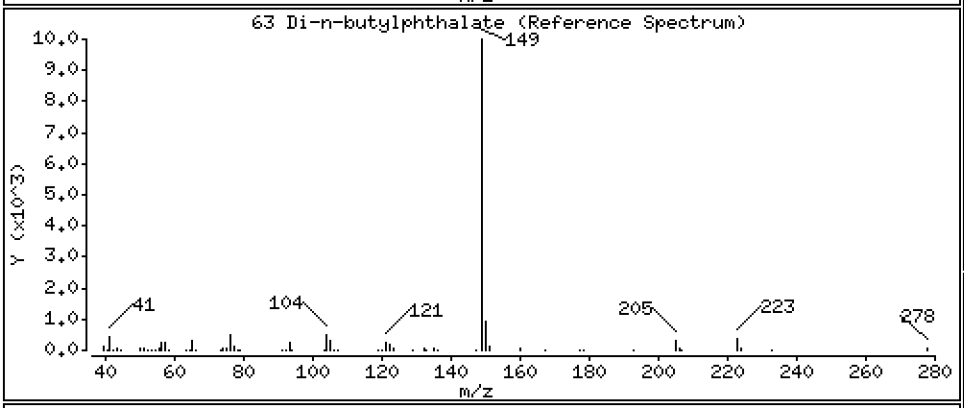
Concentration: 4.967 ug/mL

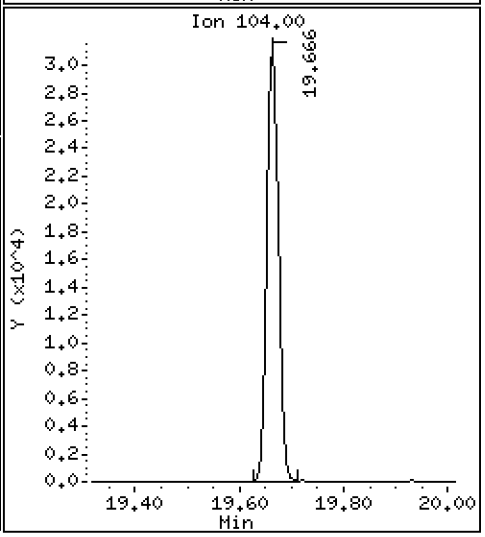


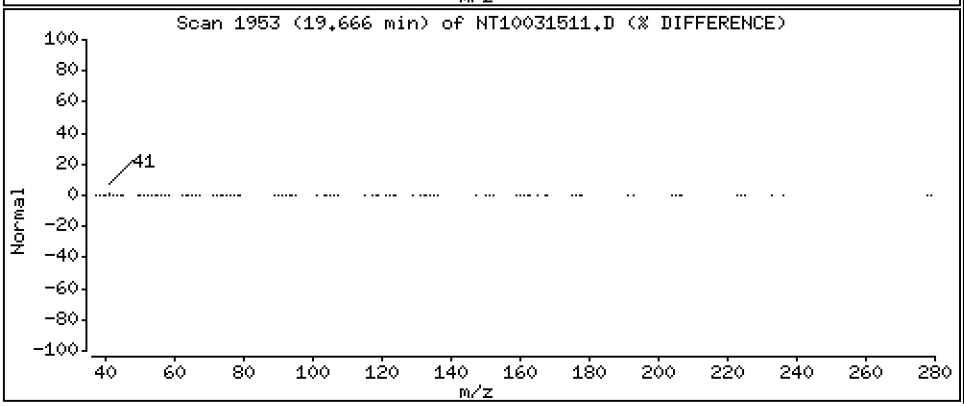












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

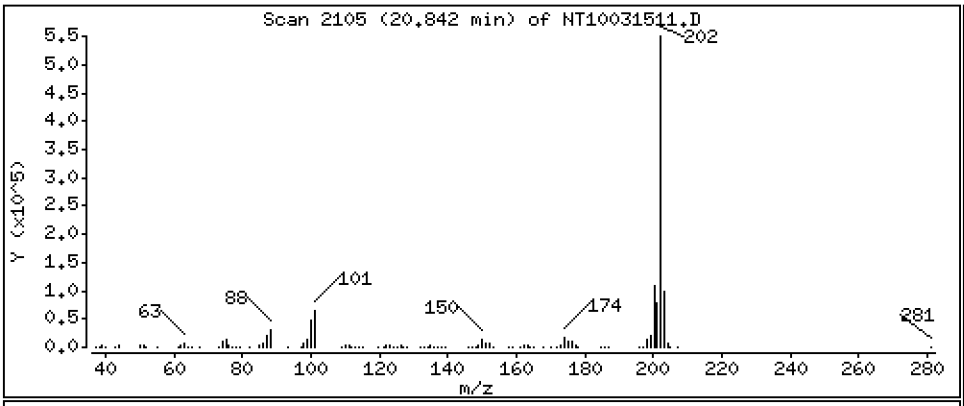
Operator: VTS

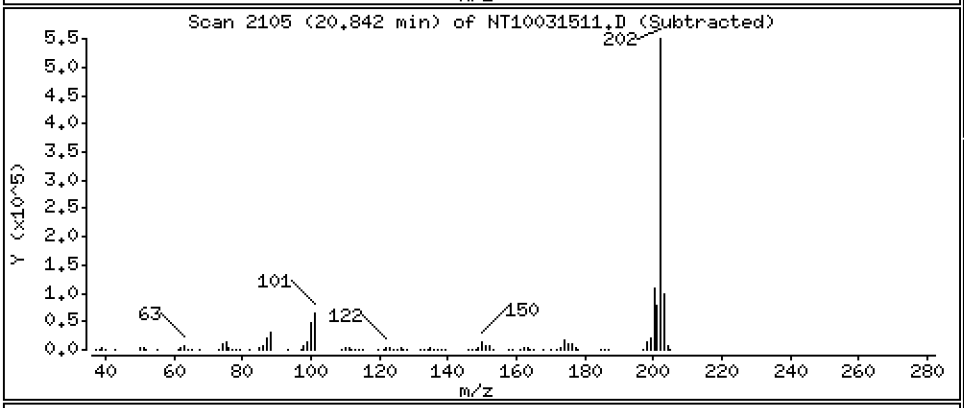
Column phase: ZB-5msi

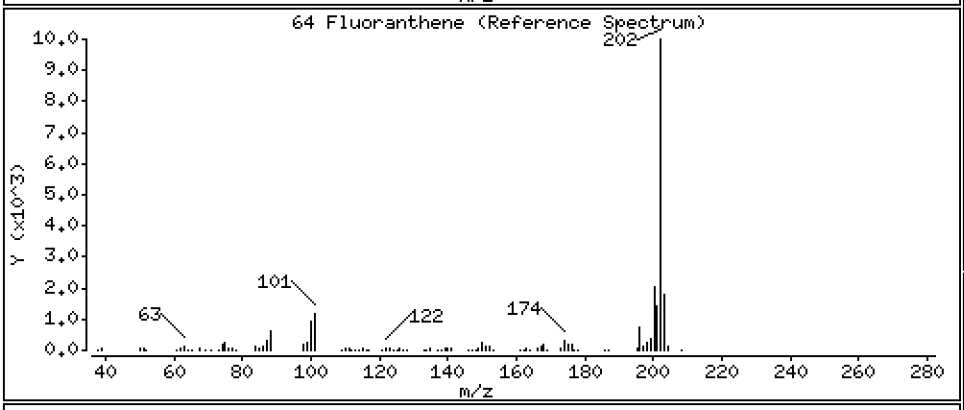
Column diameter: 0.25

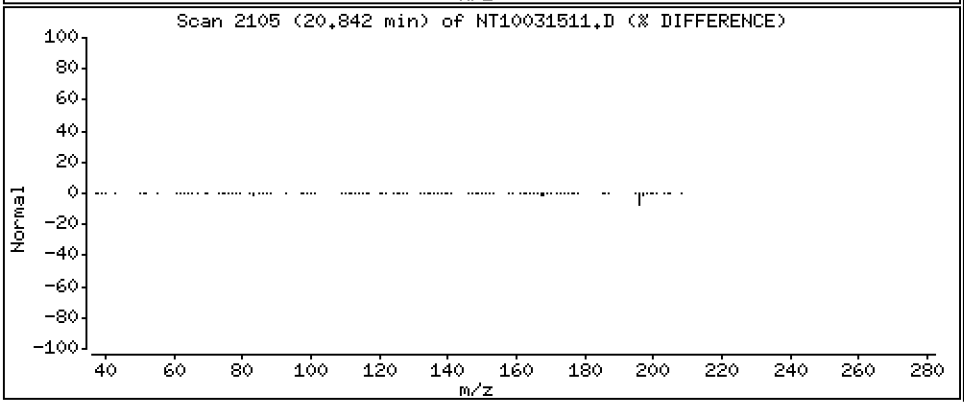
64 Fluoranthene

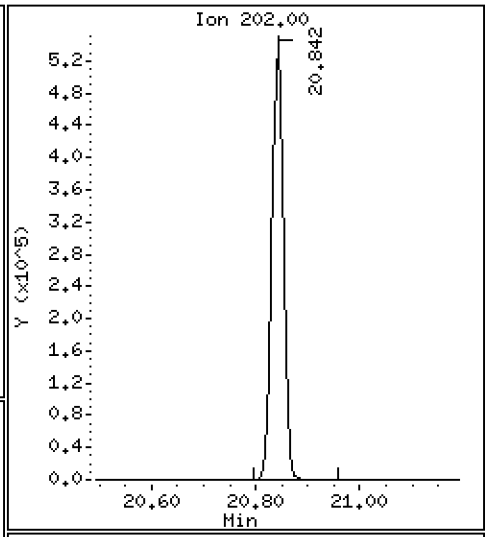
Concentration: 4.472 ug/mL

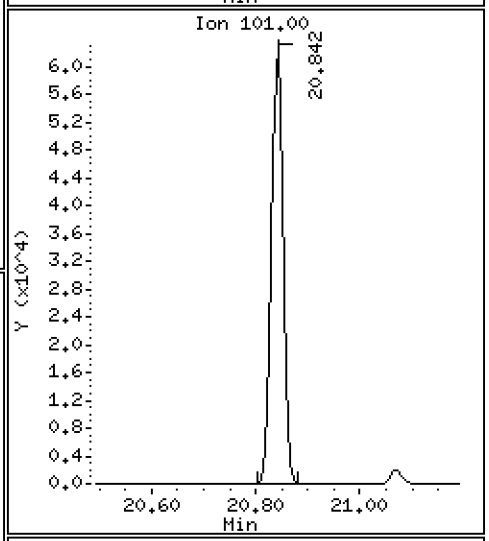


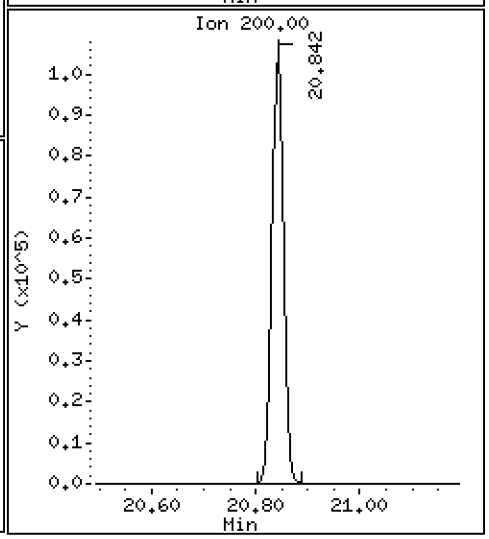












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

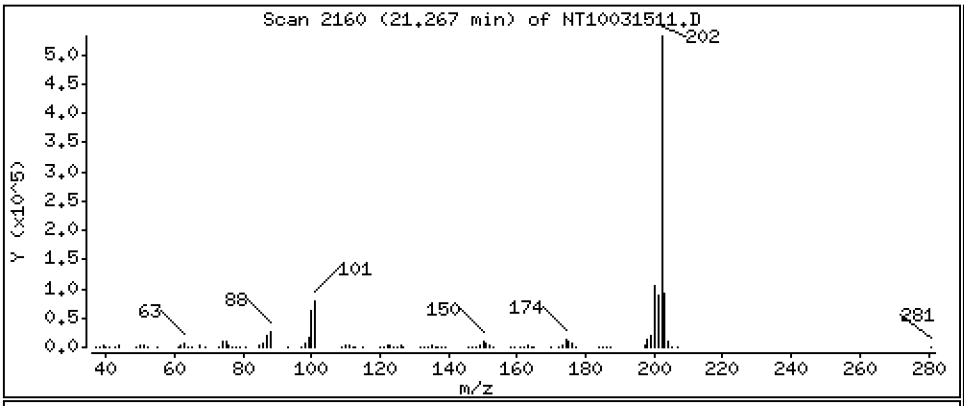
Operator: VTS

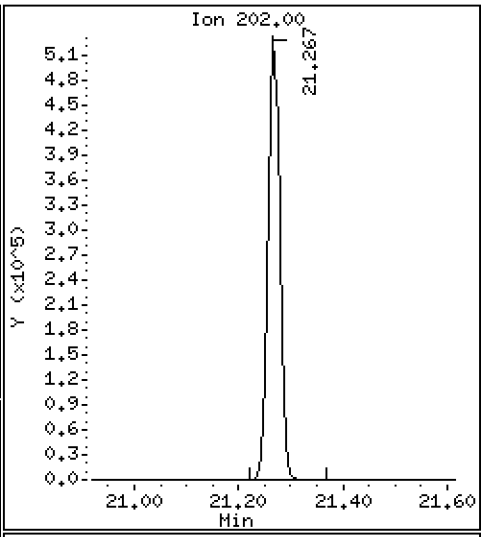
Column phase: ZB-5msi

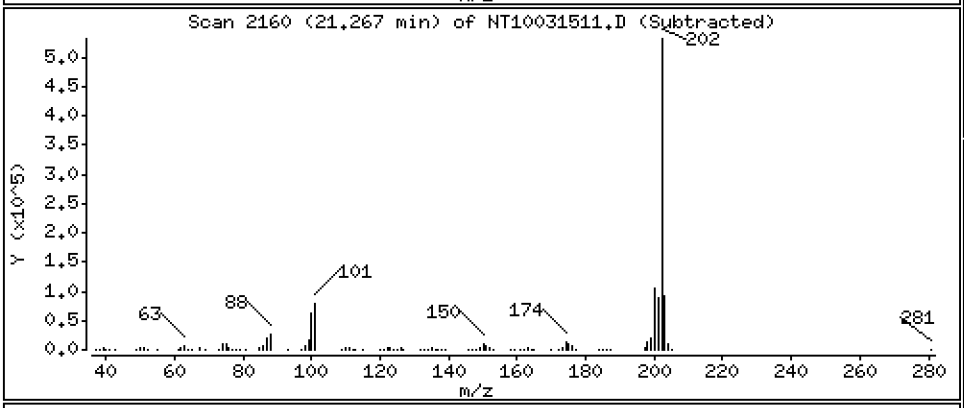
Column diameter: 0.25

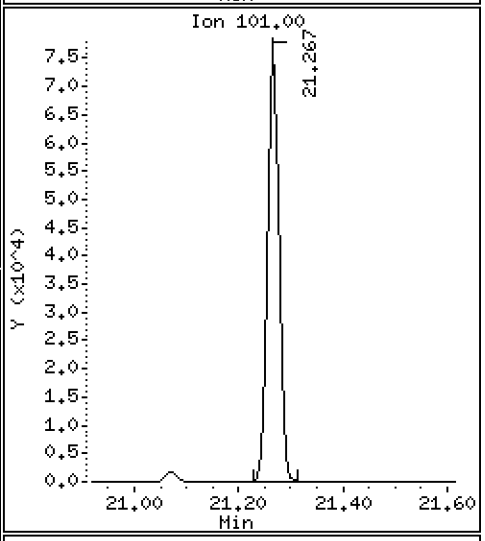
65 Pyrene

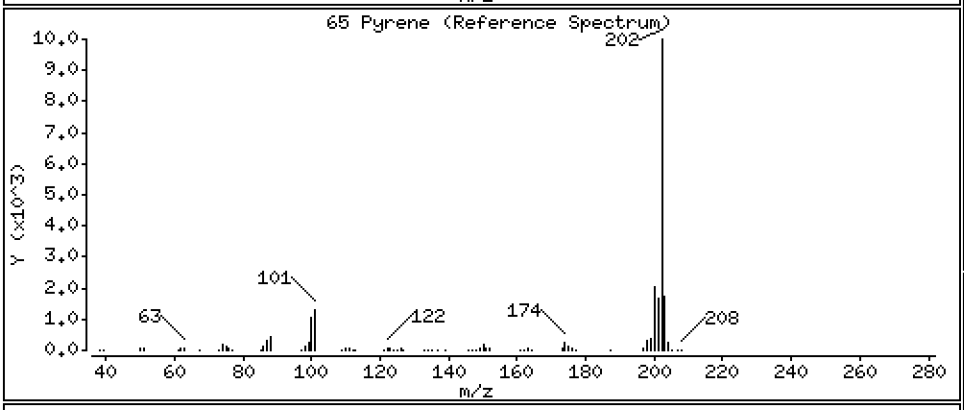
Concentration: 4.339 ug/mL

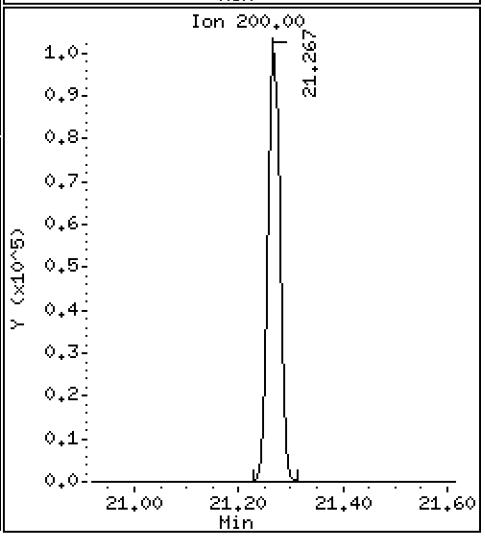


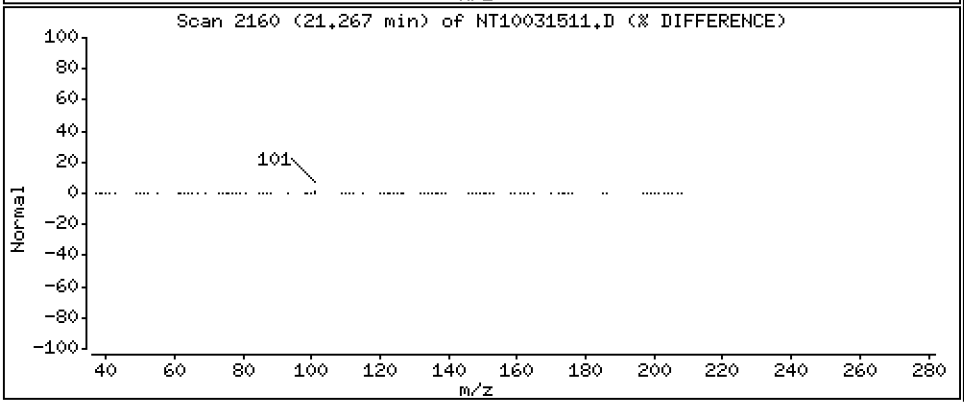












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

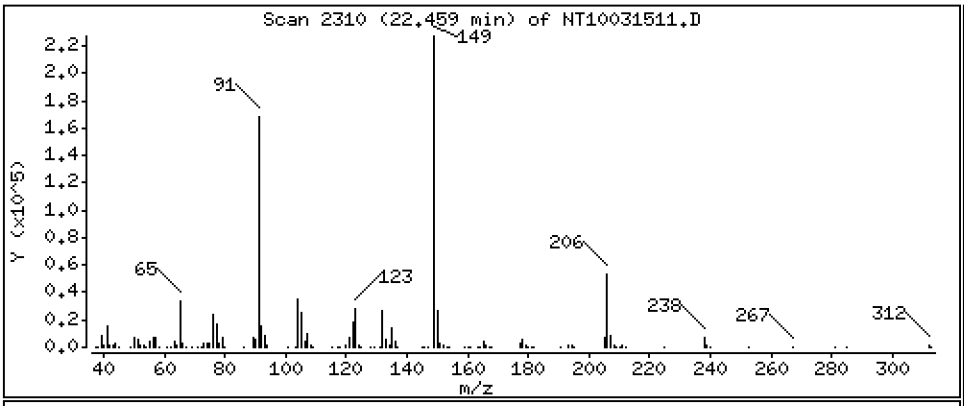
Operator: VTS

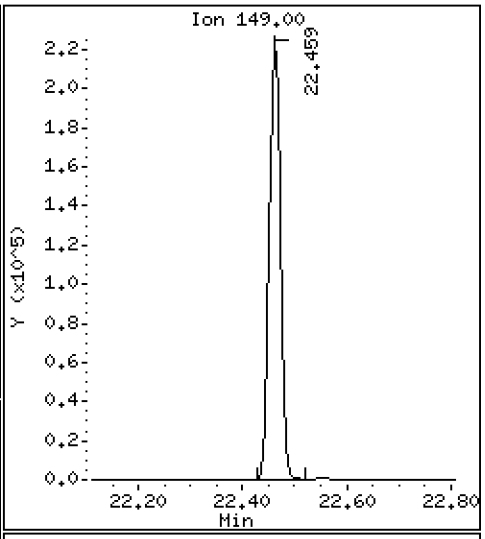
Column phase: ZB-5msi

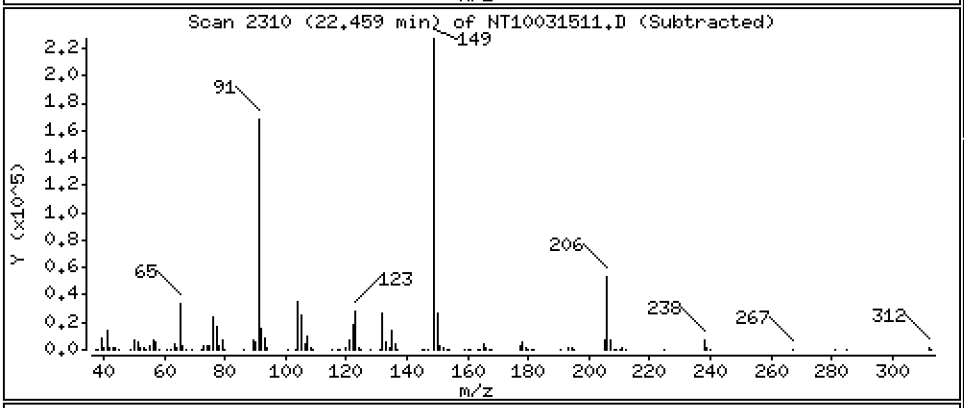
Column diameter: 0.25

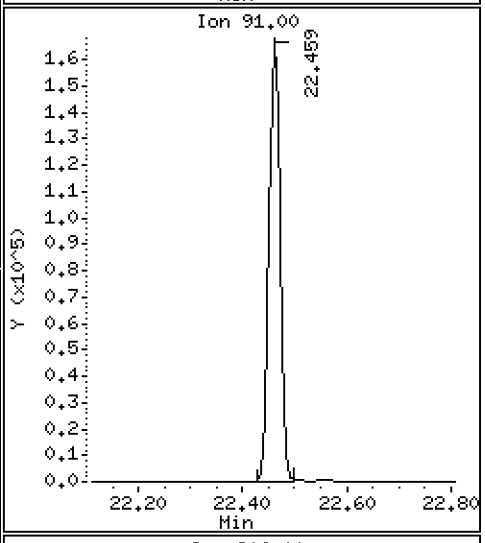
67 Butylbenzylphthalate

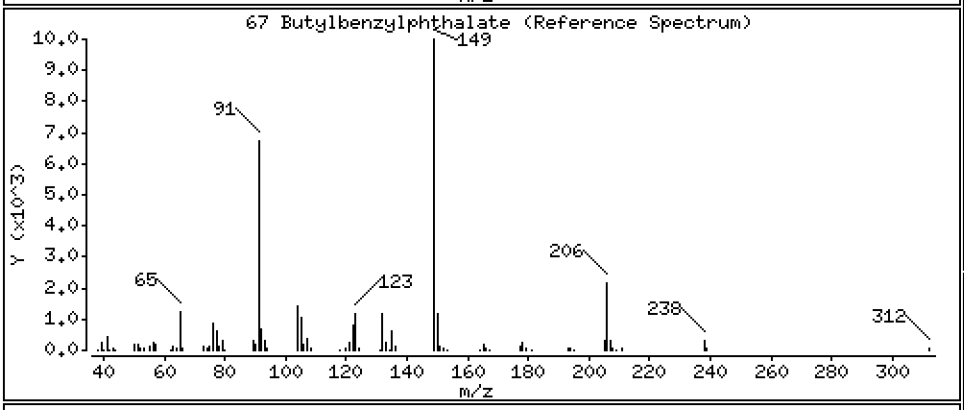
Concentration: 4.834 ug/mL

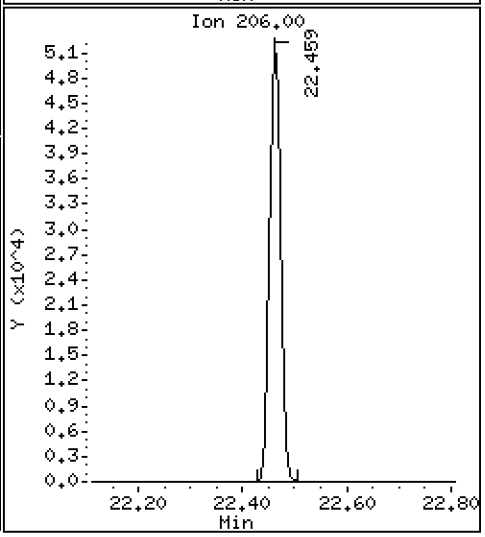


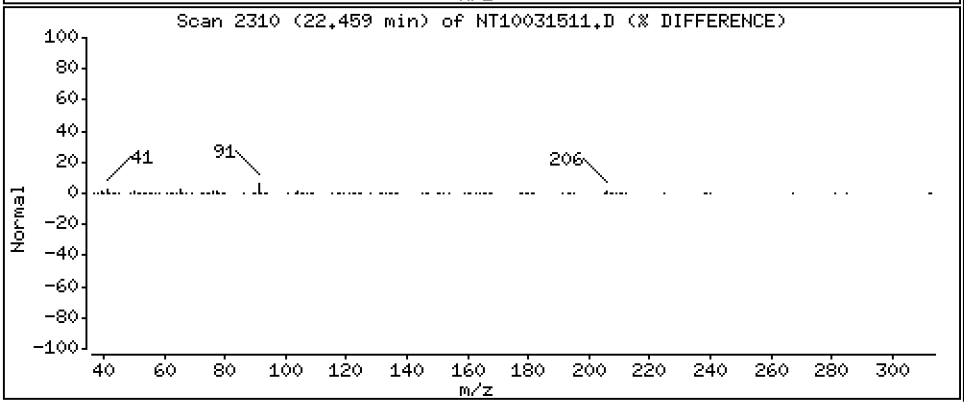












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

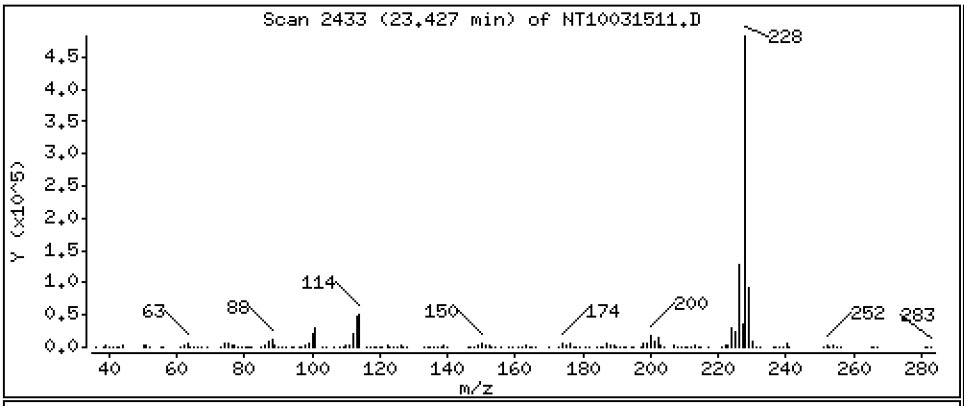
Operator: VTS

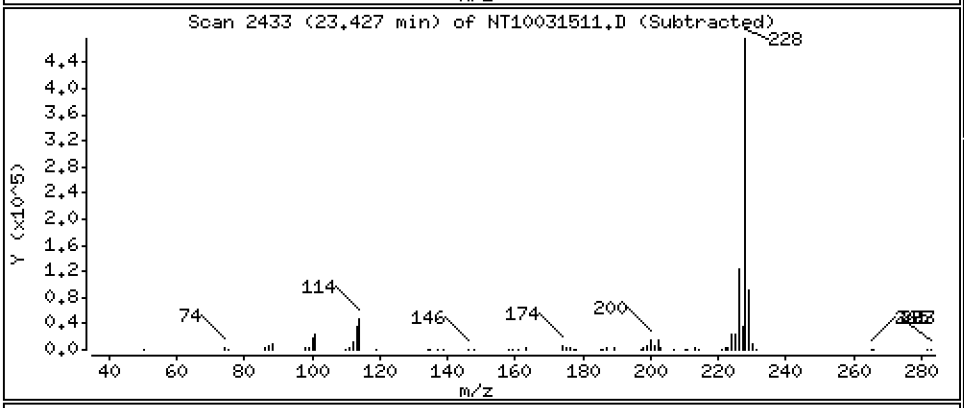
Column phase: ZB-5msi

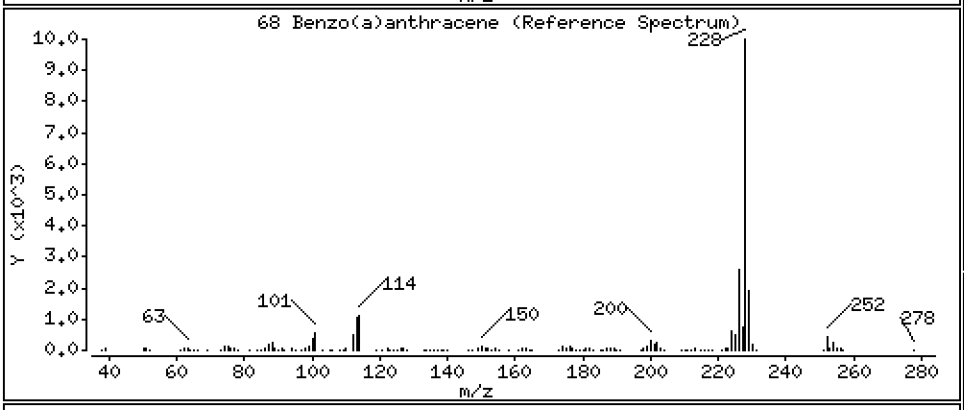
Column diameter: 0.25

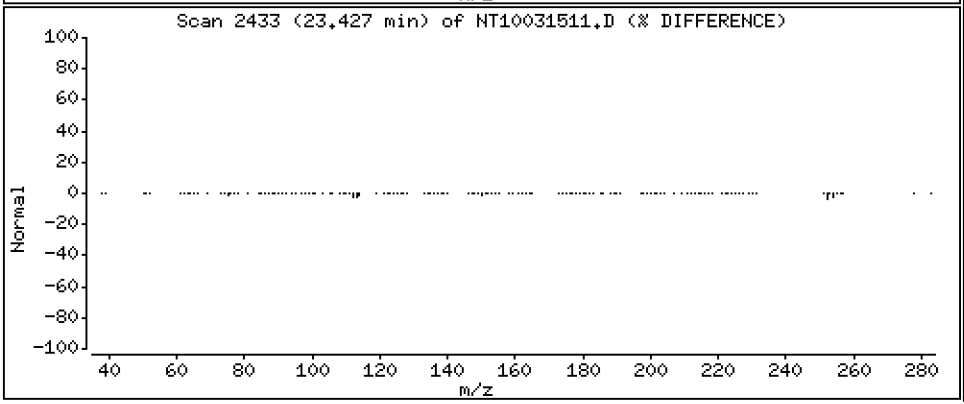
68 Benzo(a)anthracene

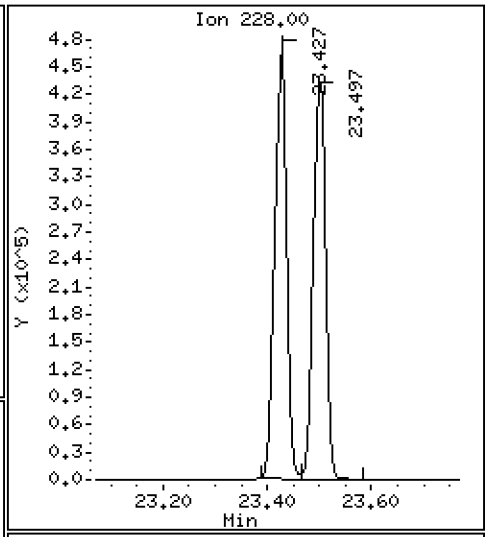
Concentration: 4.647 ug/mL

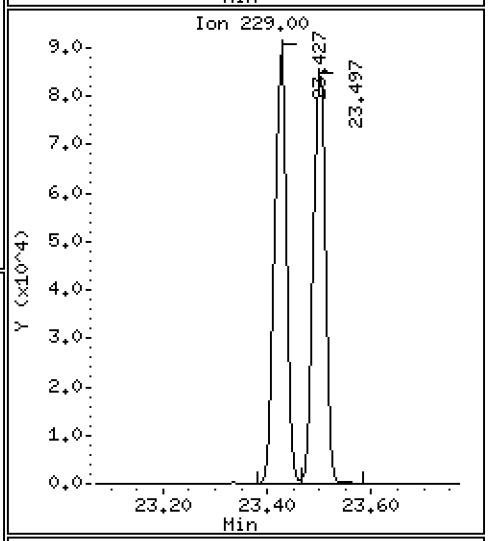


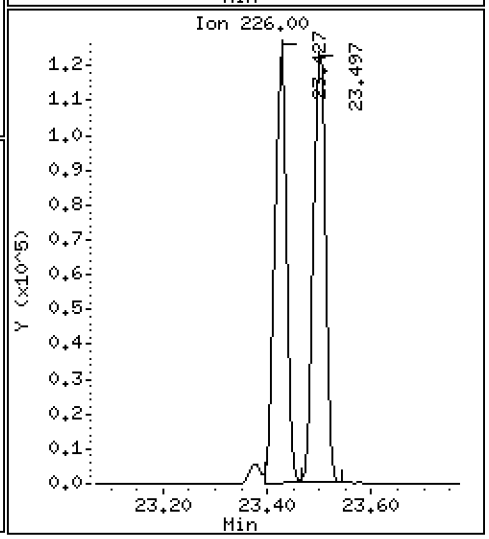












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

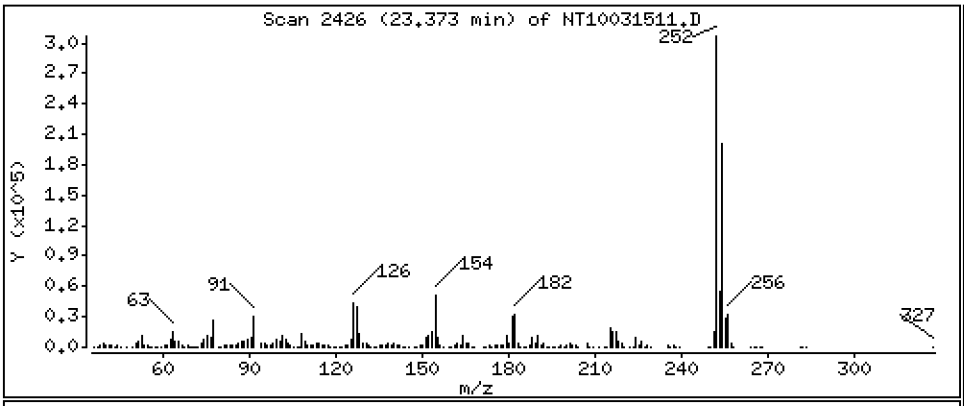
Operator: VTS

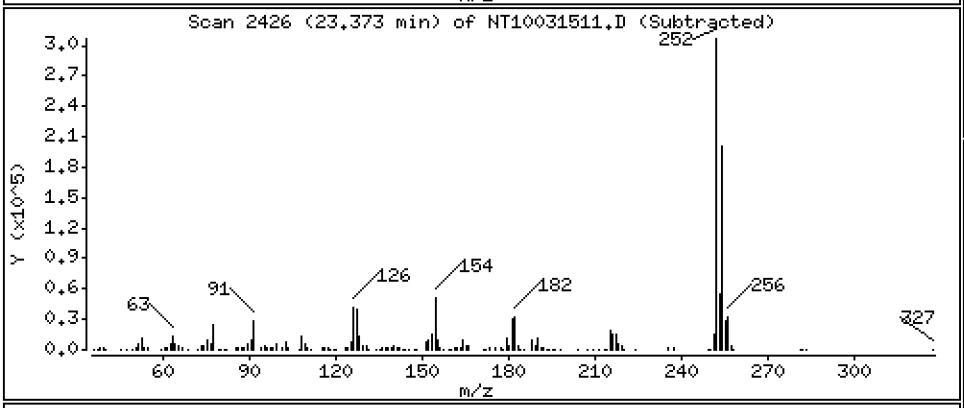
Column phase: ZB-5msi

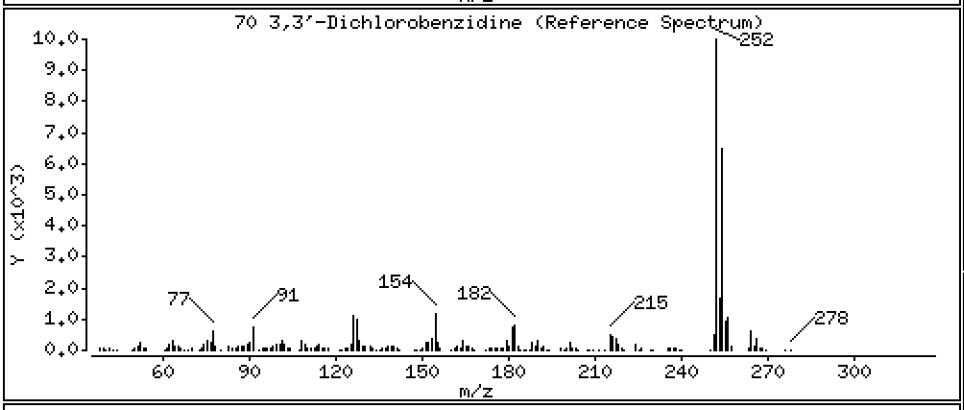
Column diameter: 0.25

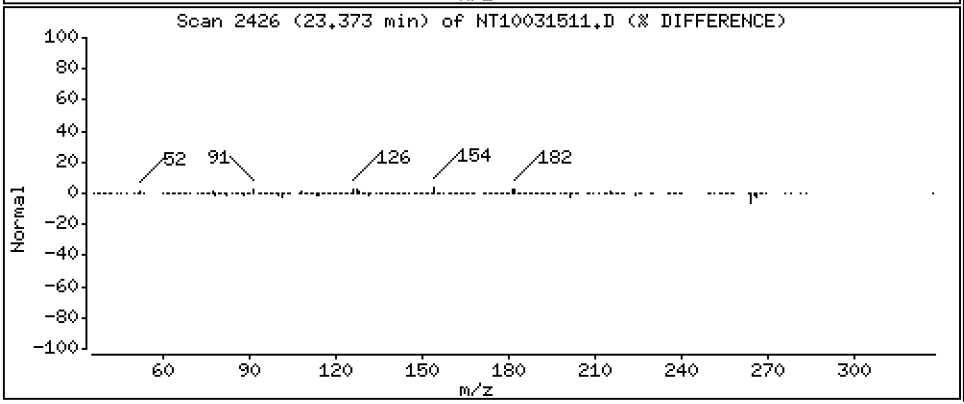
70 3,3'-Dichlorobenzidine

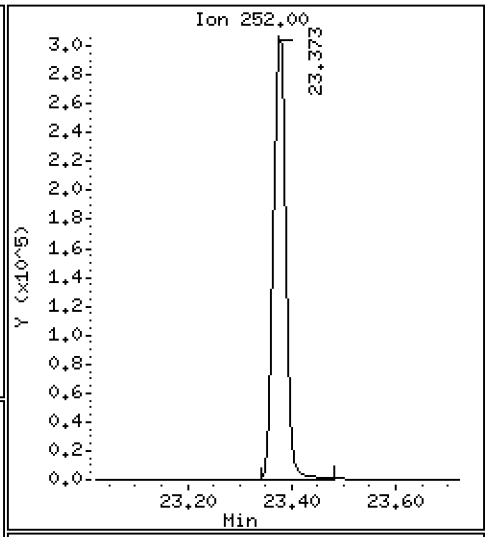
Concentration: 9.817 ug/mL

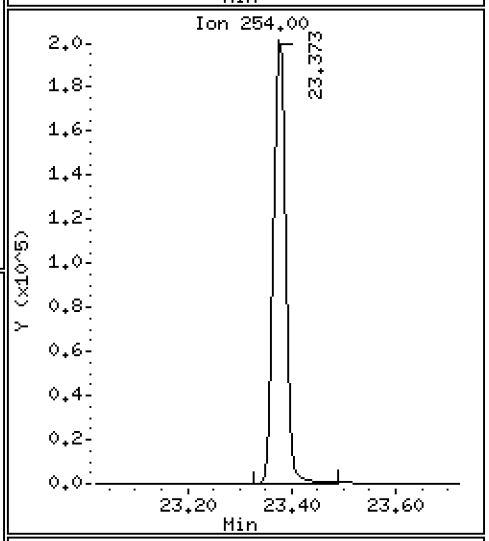


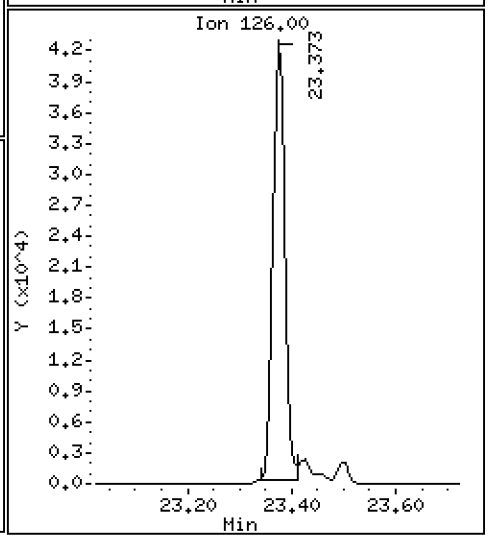












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

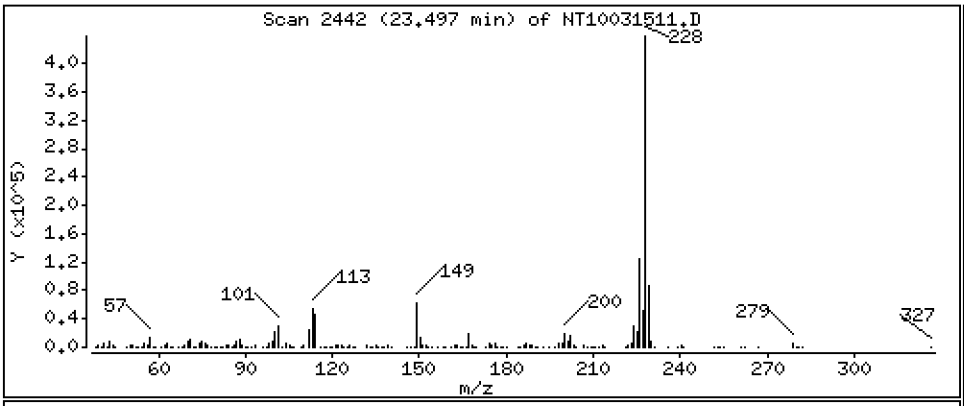
Operator: VTS

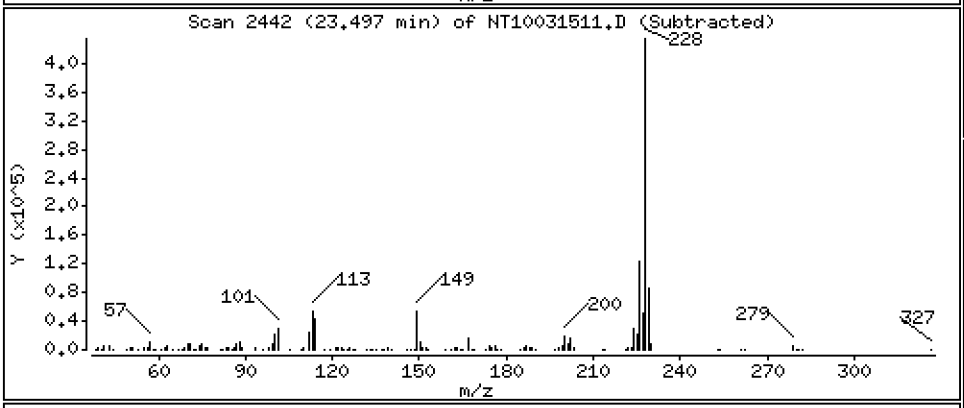
Column phase: ZB-5msi

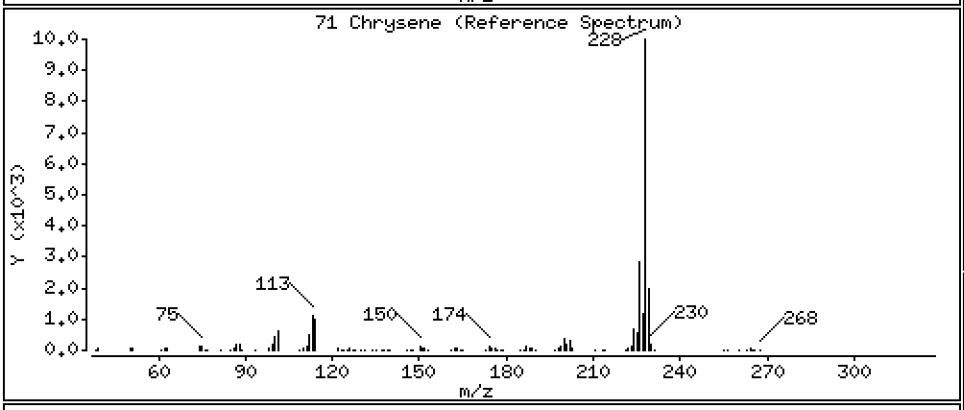
Column diameter: 0.25

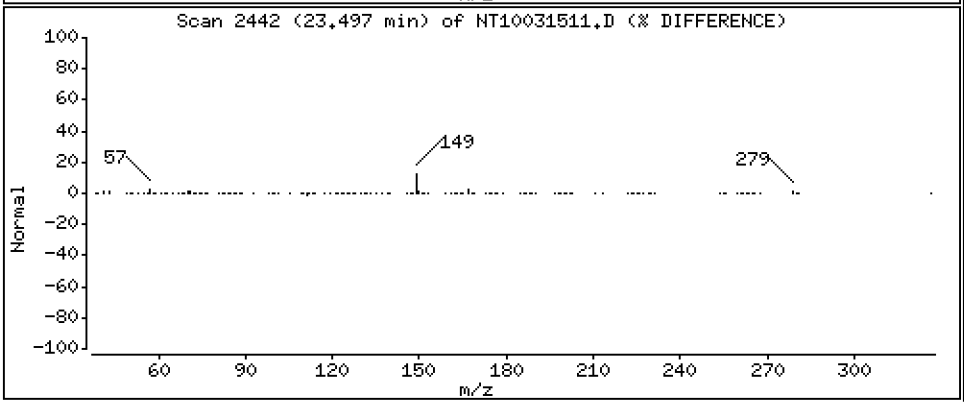
71 Chrysene

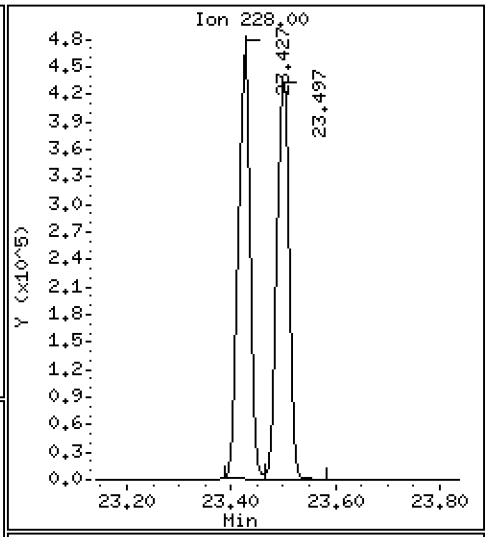
Concentration: 4.510 ug/mL

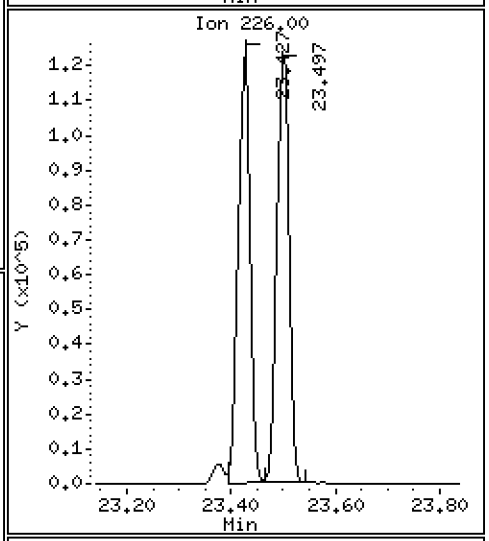


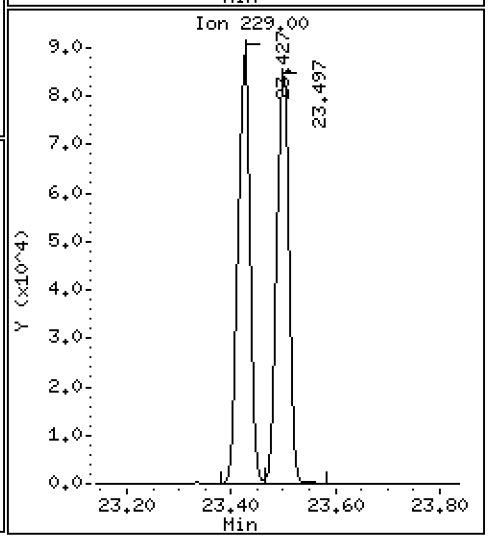












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

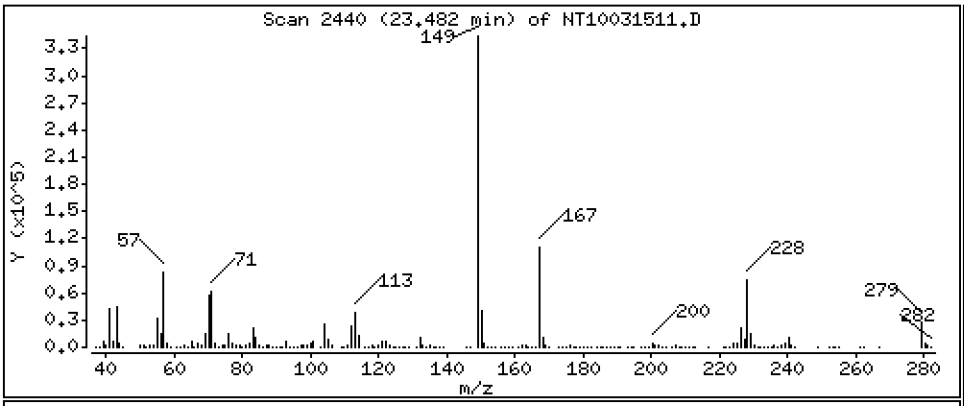
Operator: VTS

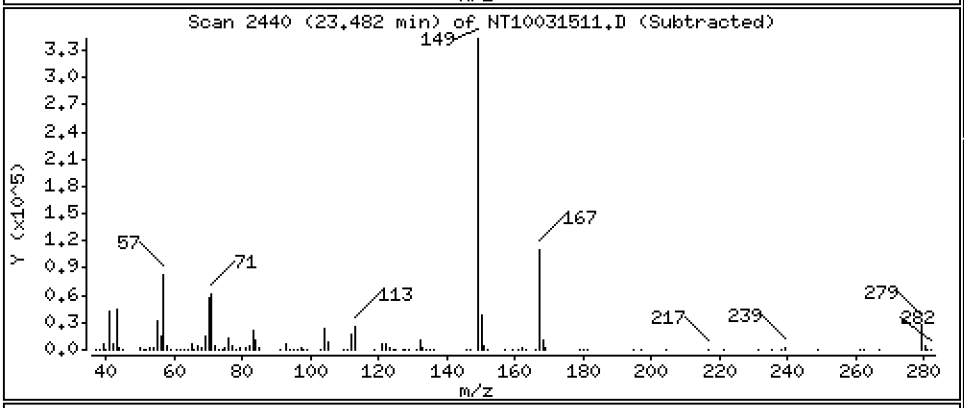
Column phase: ZB-5msi

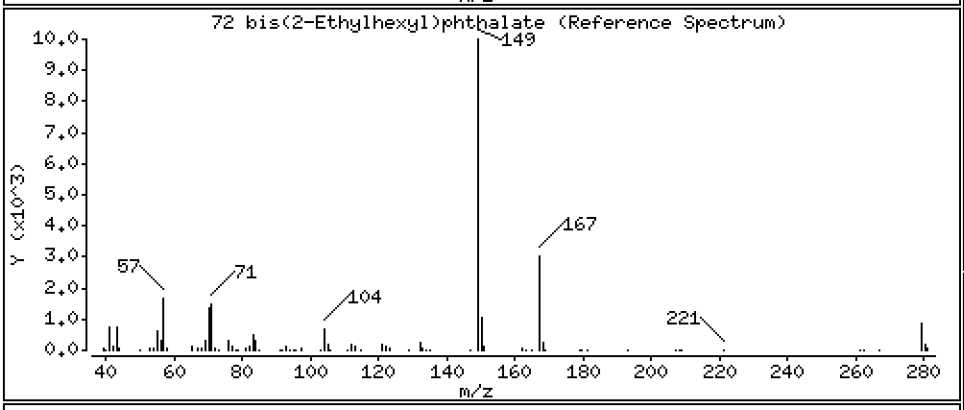
Column diameter: 0.25

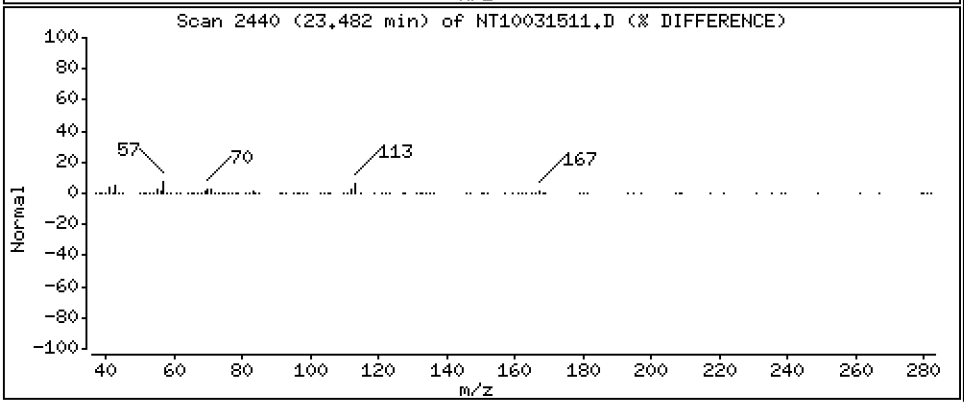
72 bis(2-Ethylhexyl)phthalate

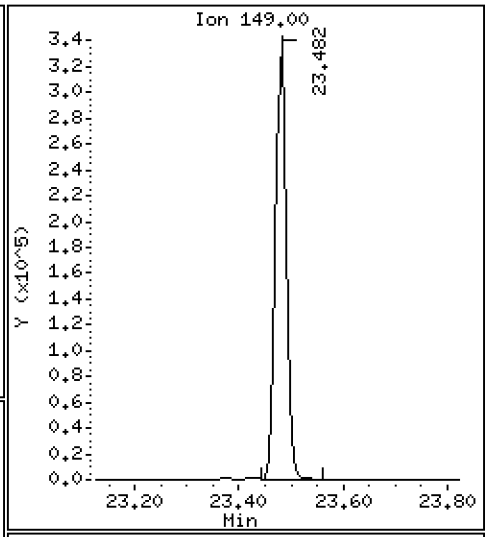
Concentration: 4.680 ug/mL

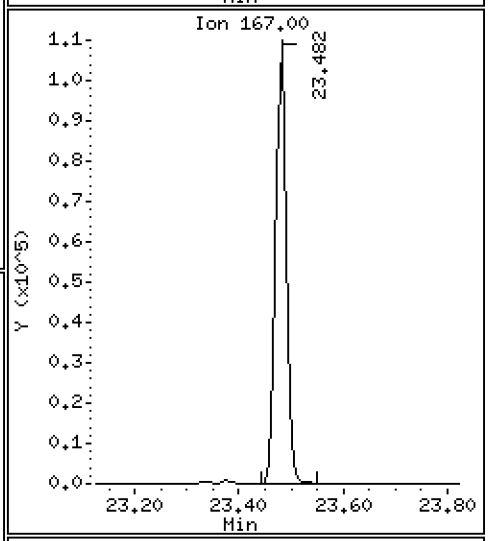


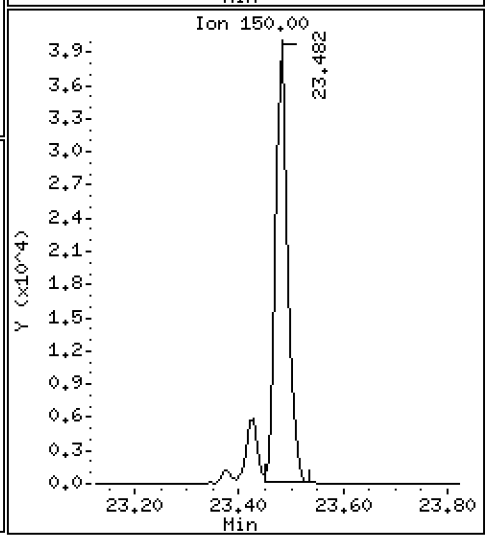












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

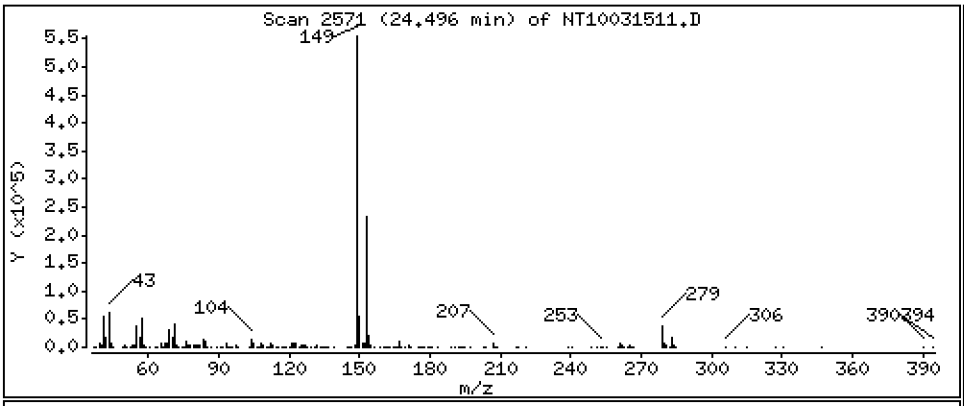
Operator: VTS

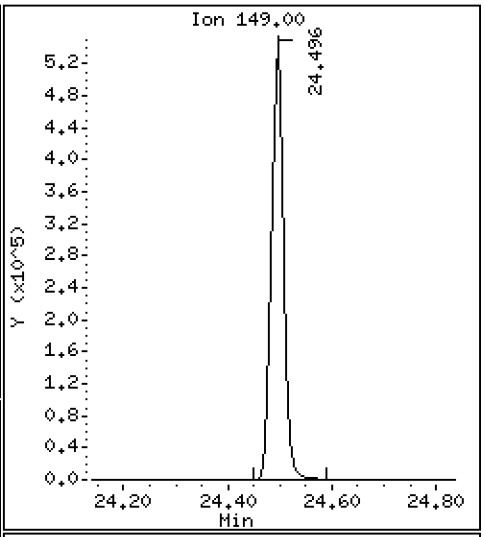
Column phase: ZB-5msi

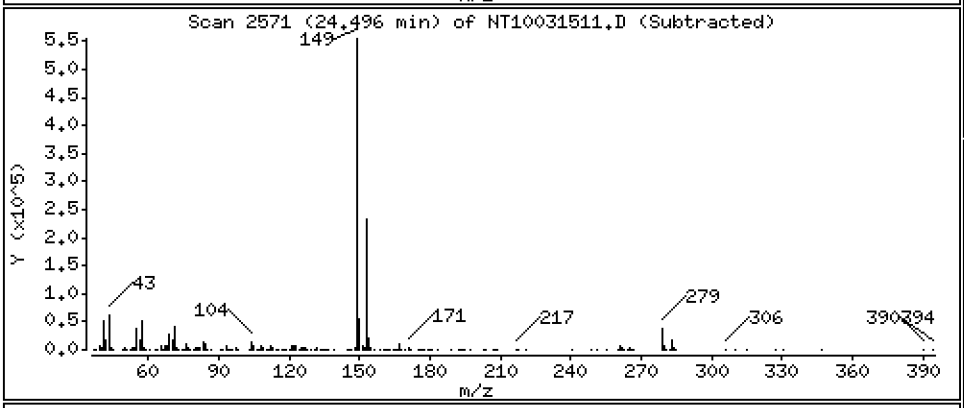
Column diameter: 0.25

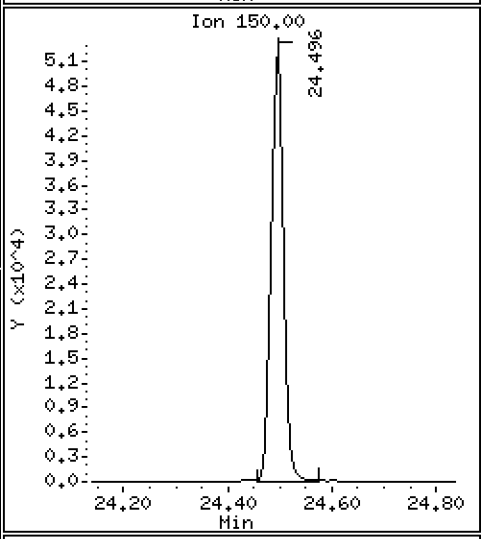
73 Di-n-octylphthalate

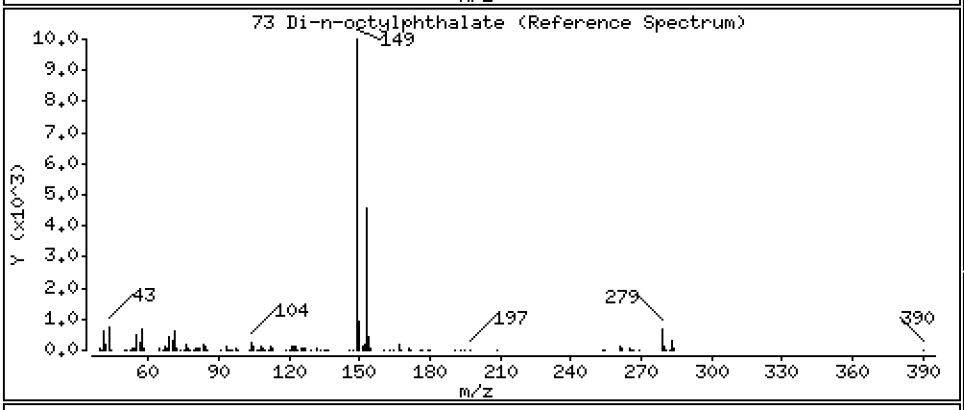
Concentration: 4.947 ug/mL

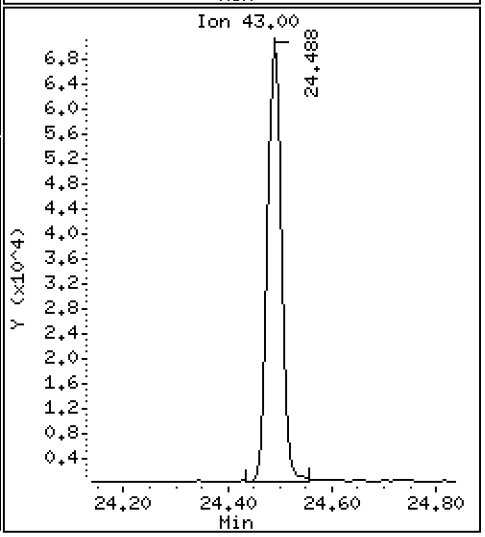


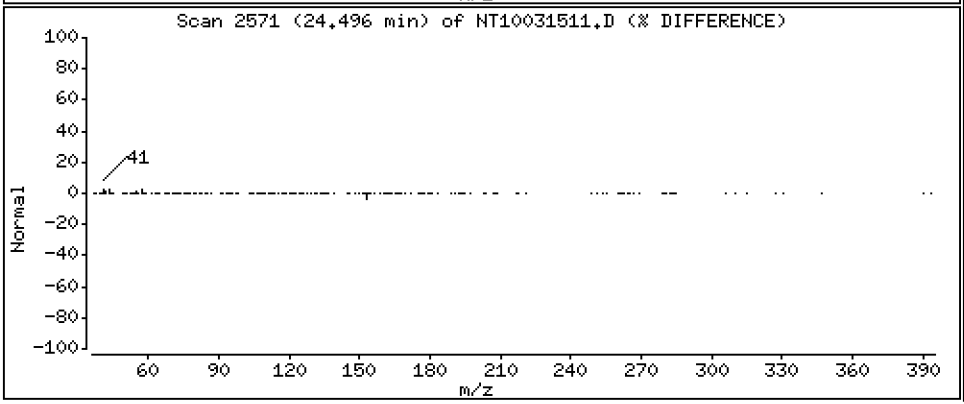












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

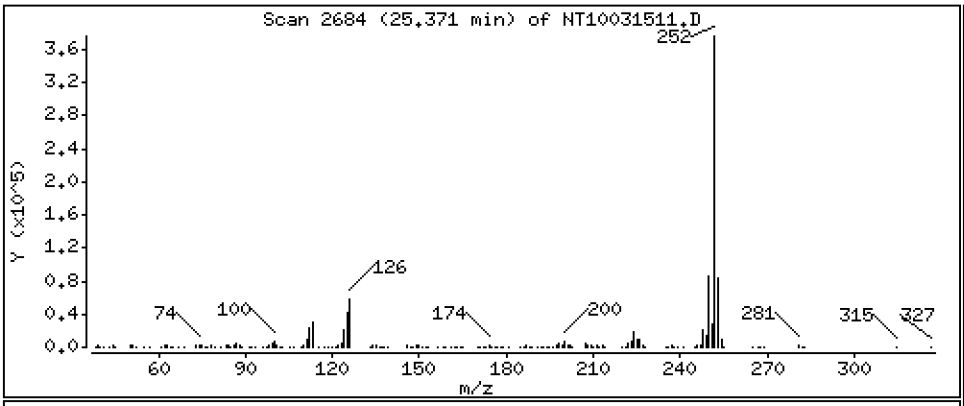
Operator: VTS

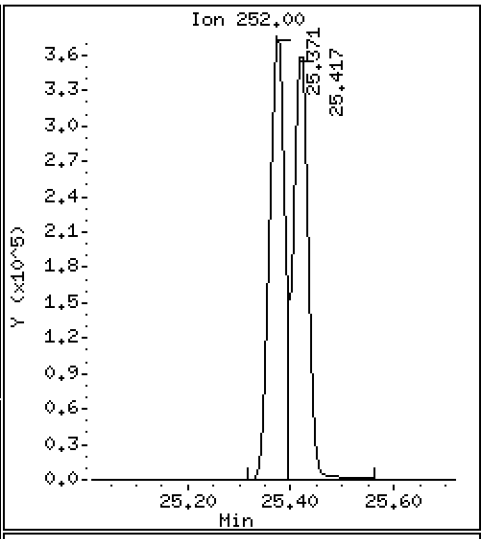
Column phase: ZB-5msi

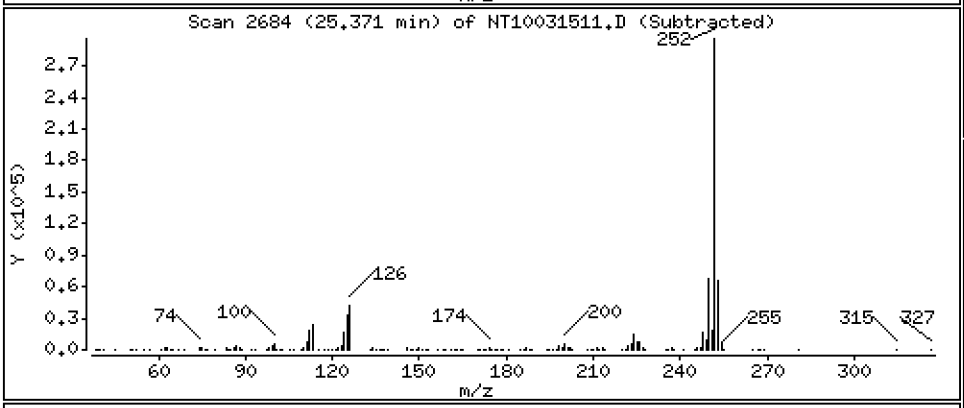
Column diameter: 0.25

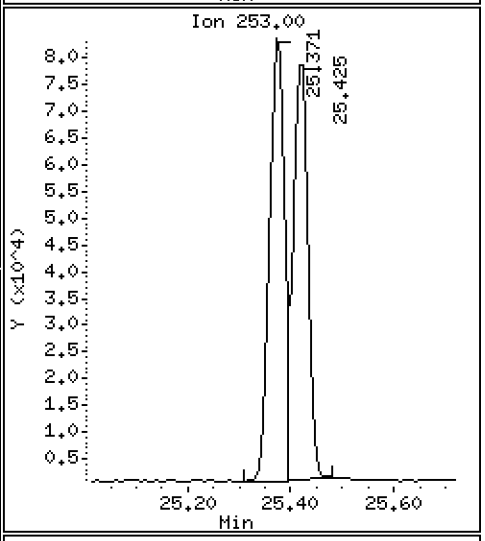
74 Benzo(b)fluoranthene

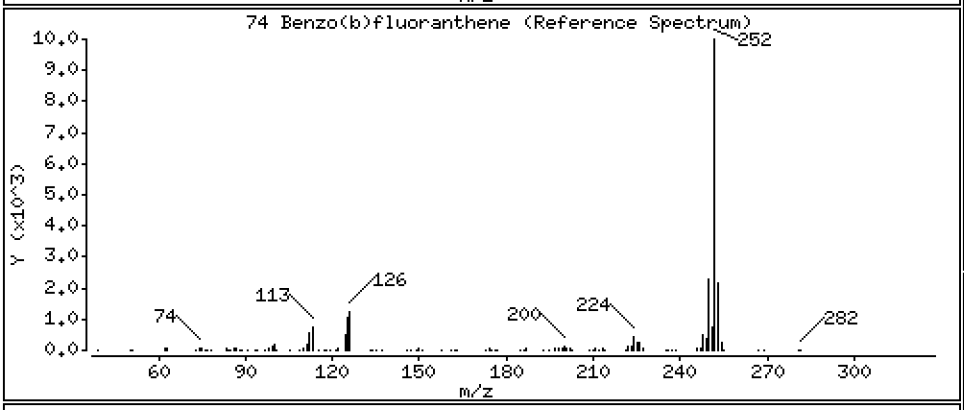
Concentration: 4.602 ug/mL

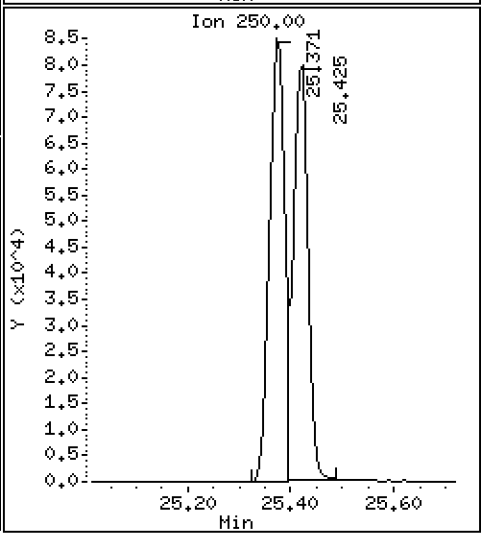


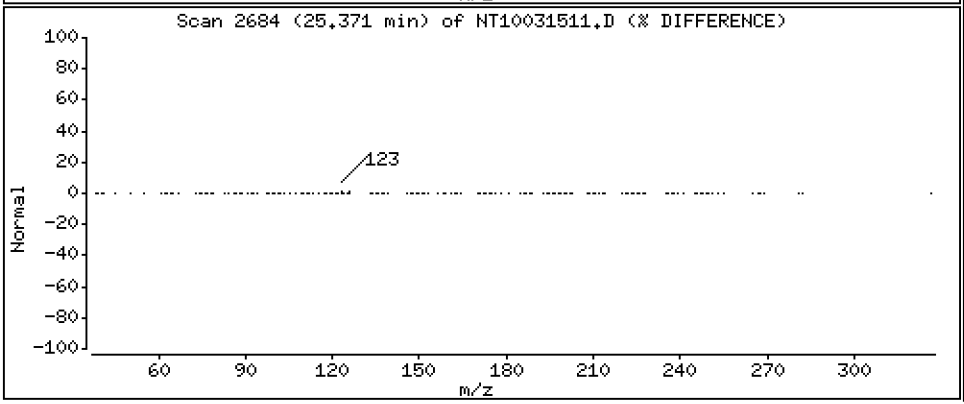












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

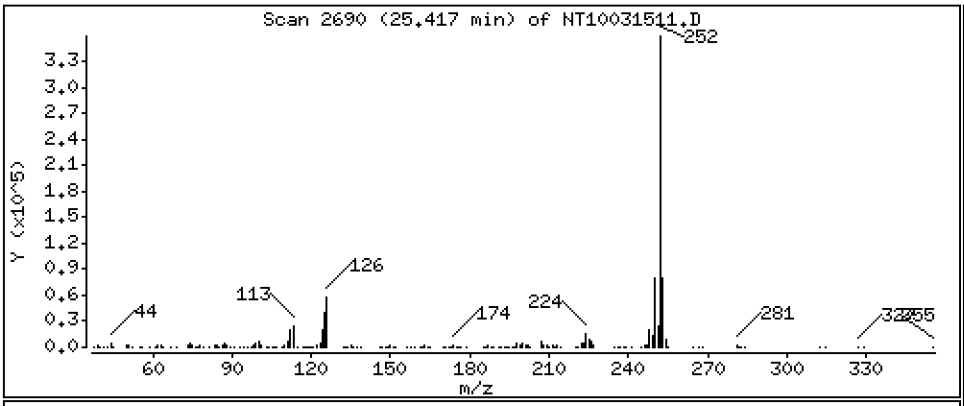
Operator: VTS

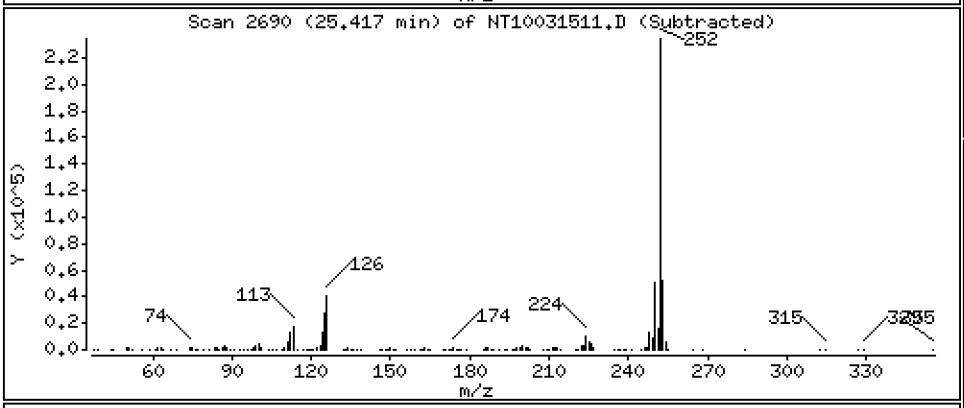
Column phase: ZB-5msi

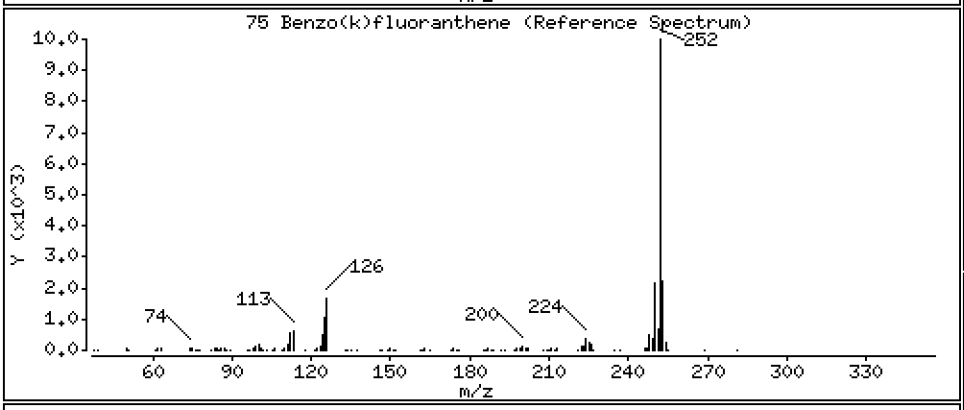
Column diameter: 0.25

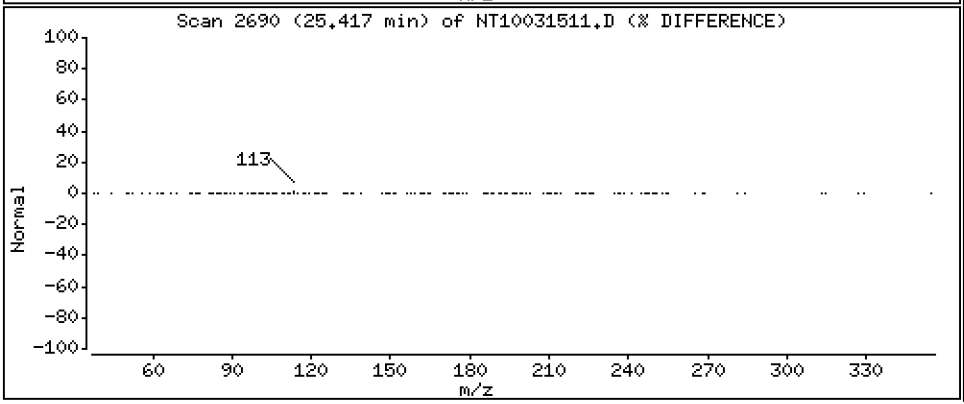
75 Benzo(k)fluoranthene

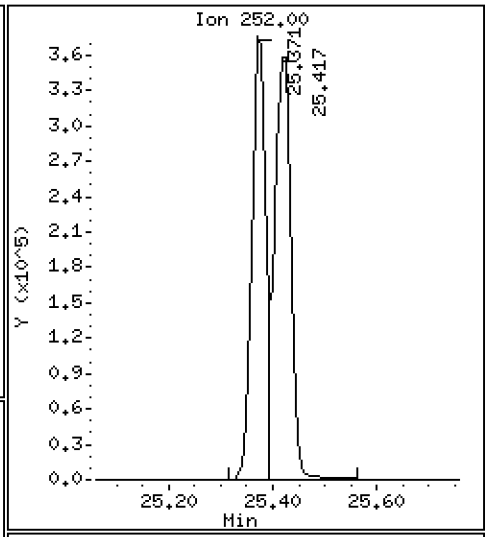
Concentration: 4.898 ug/mL

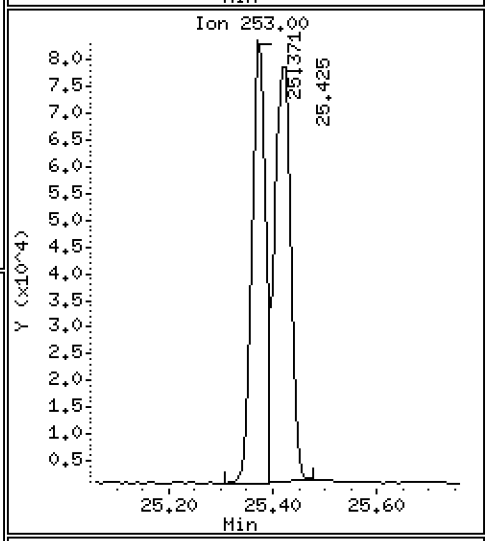


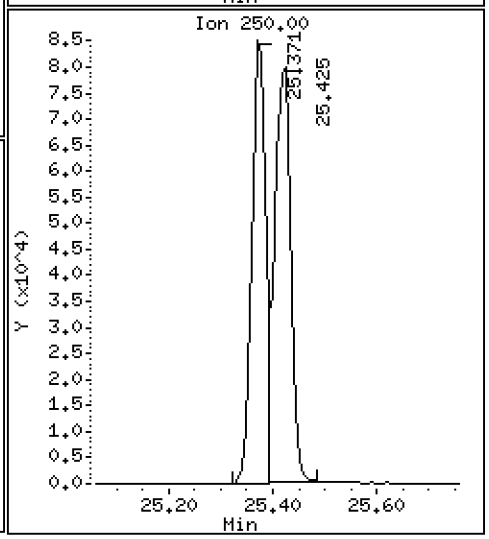












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

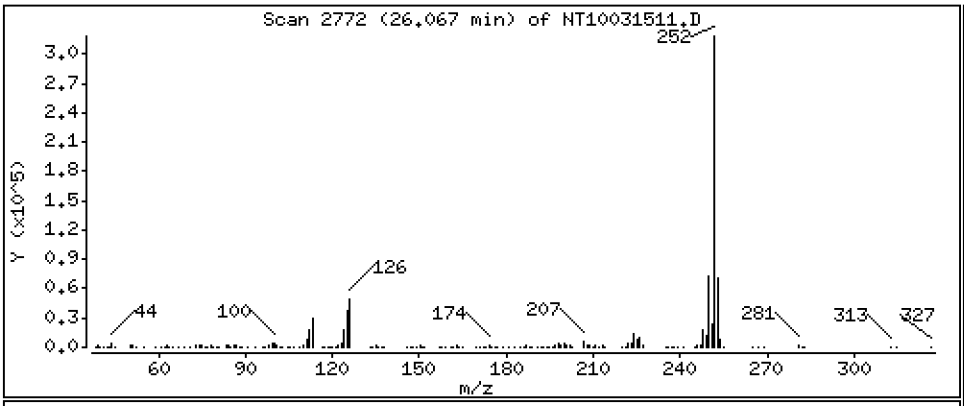
Operator: VTS

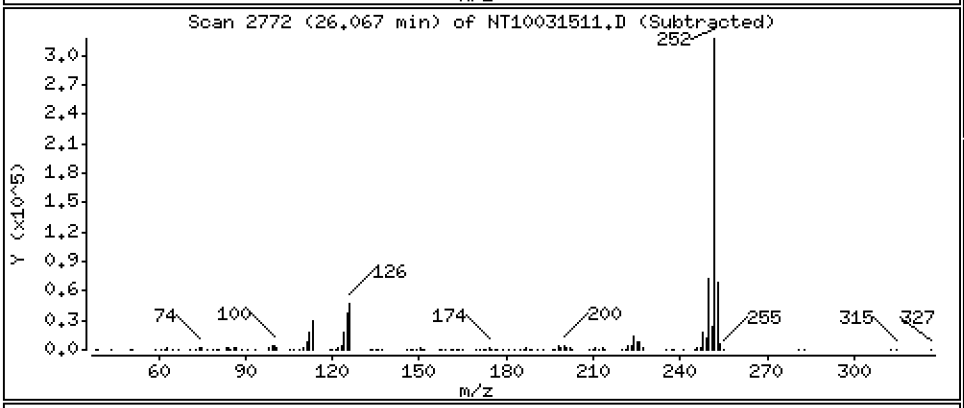
Column phase: ZB-5msi

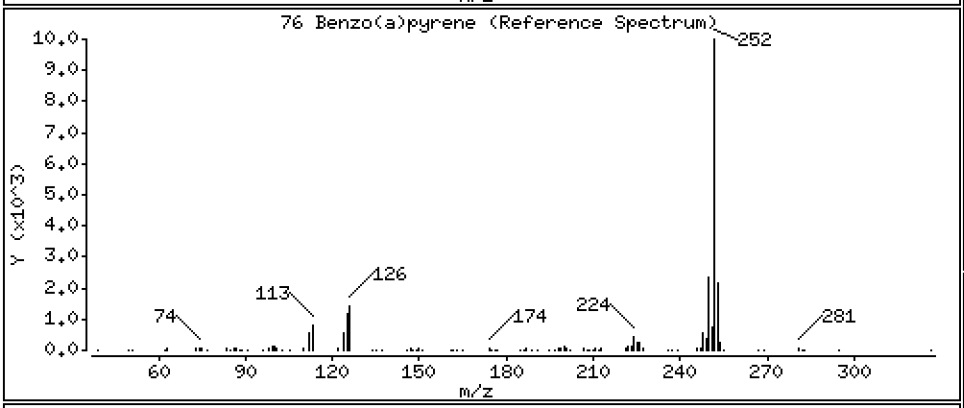
Column diameter: 0.25

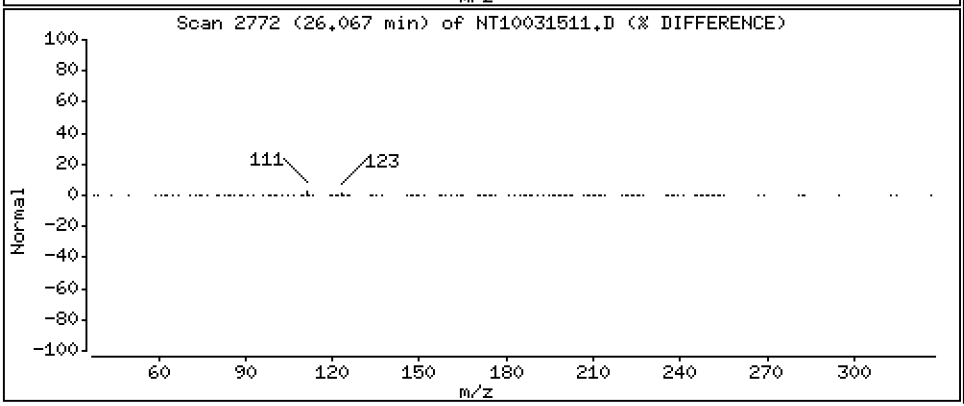
76 Benzo(a)pyrene

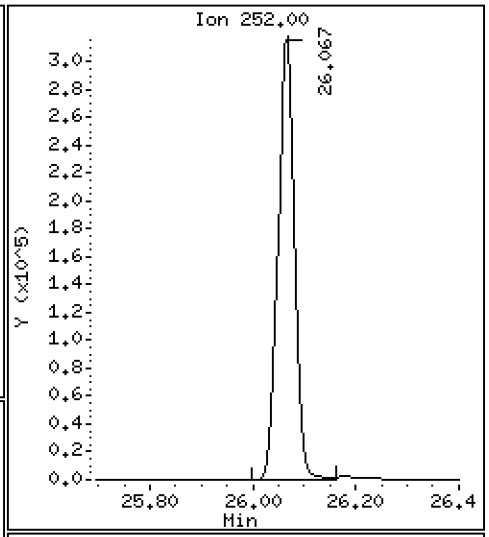
Concentration: 4.873 ug/mL

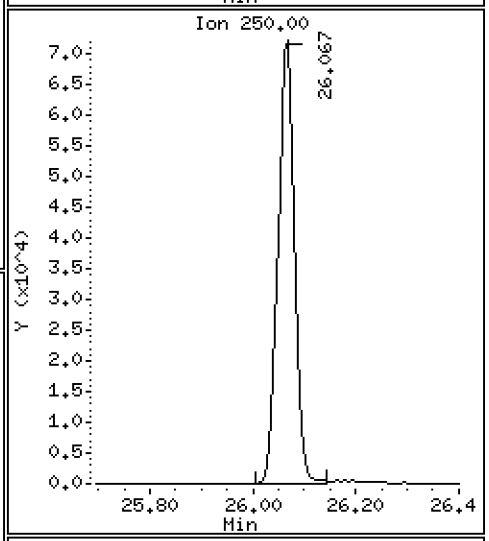


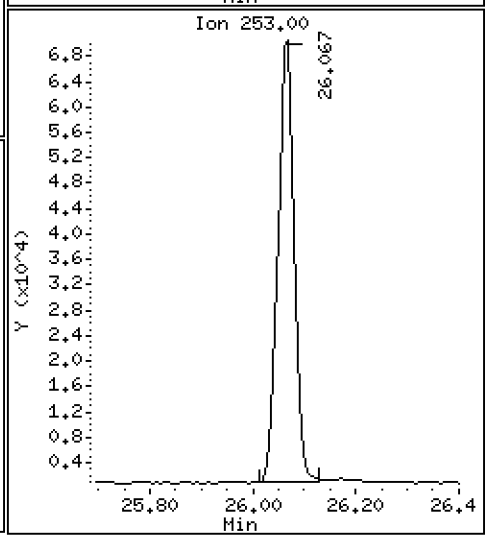












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

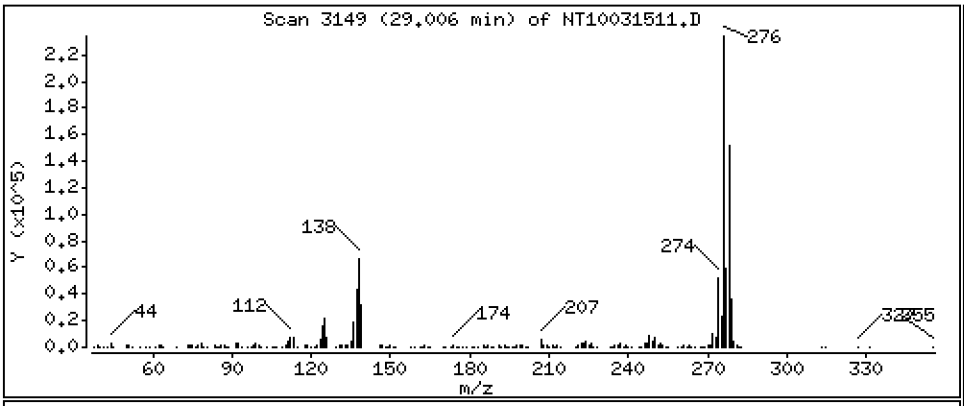
Operator: VTS

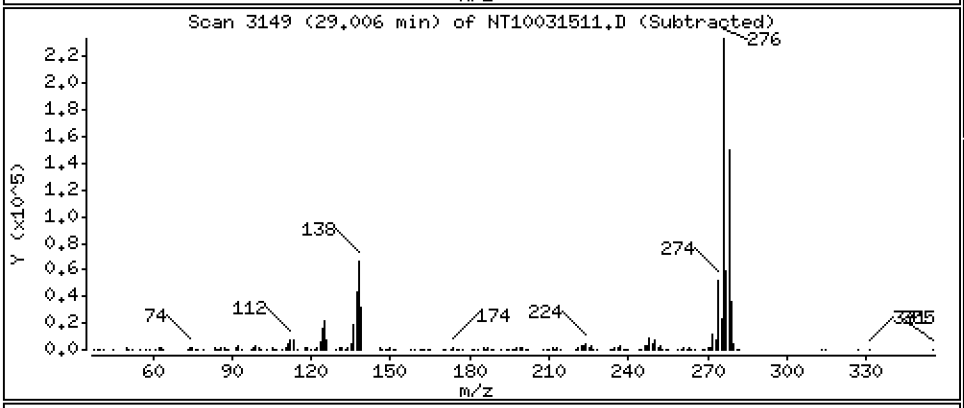
Column phase: ZB-5msi

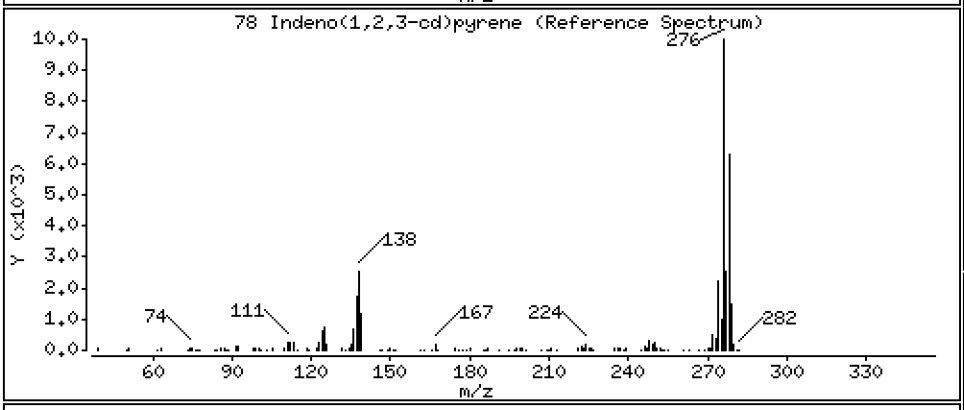
Column diameter: 0.25

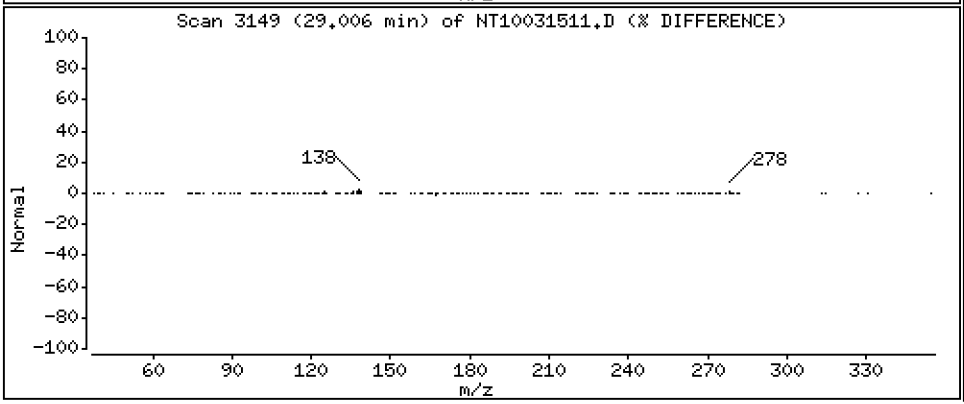
78 Indeno(1,2,3-cd)pyrene

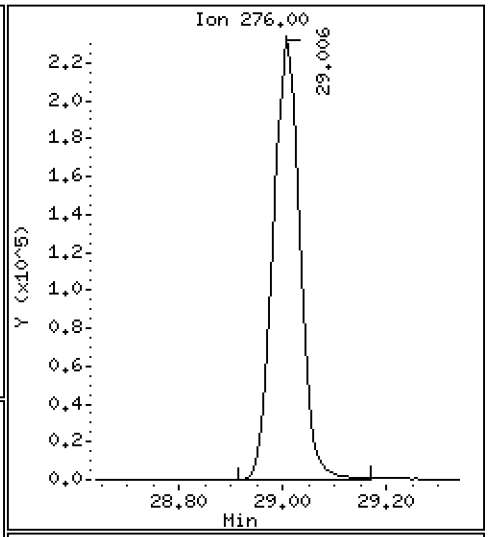
Concentration: 4.577 ug/mL

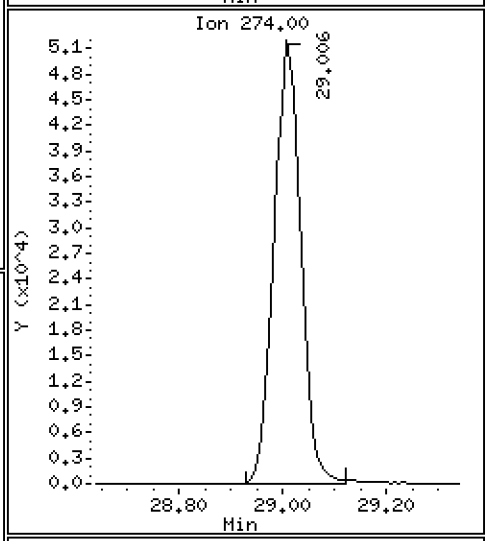


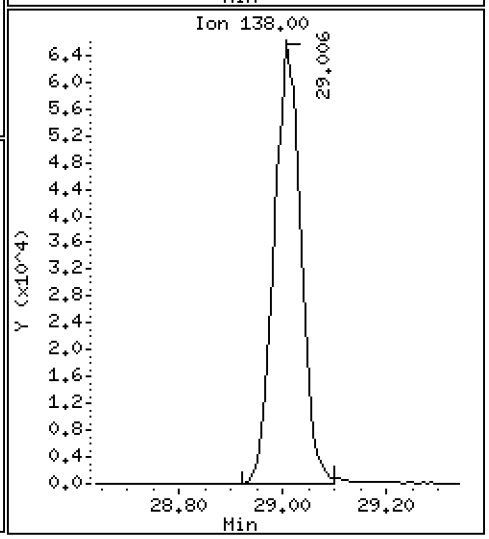












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

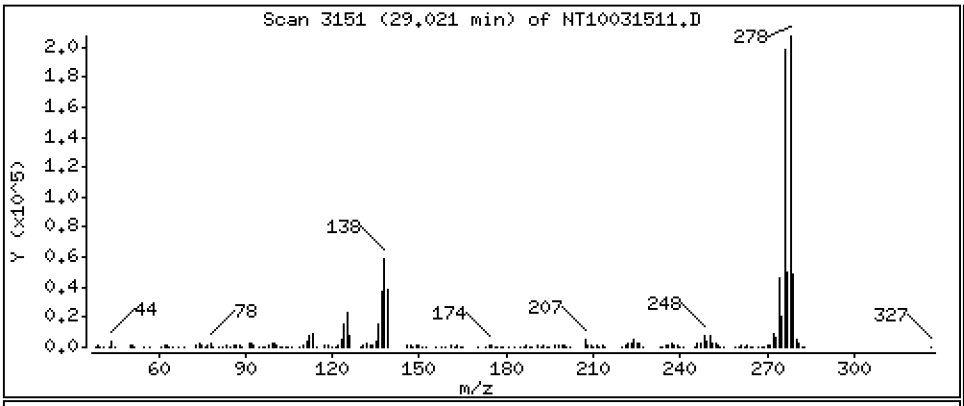
Operator: VTS

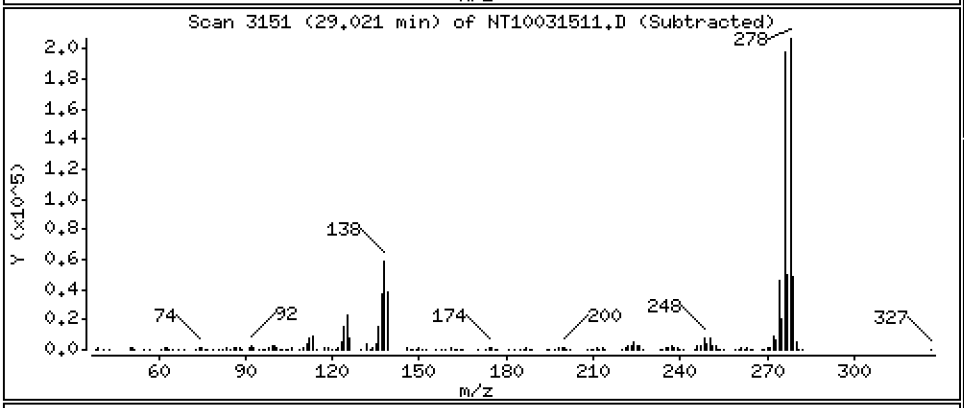
Column phase: ZB-5msi

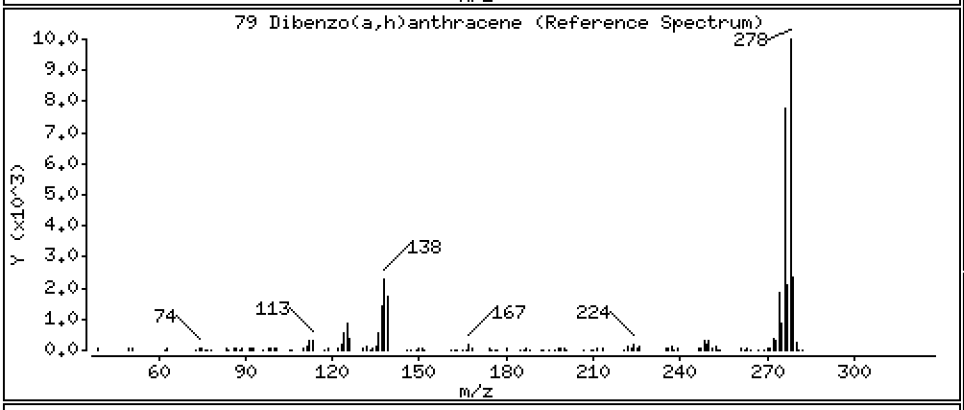
Column diameter: 0.25

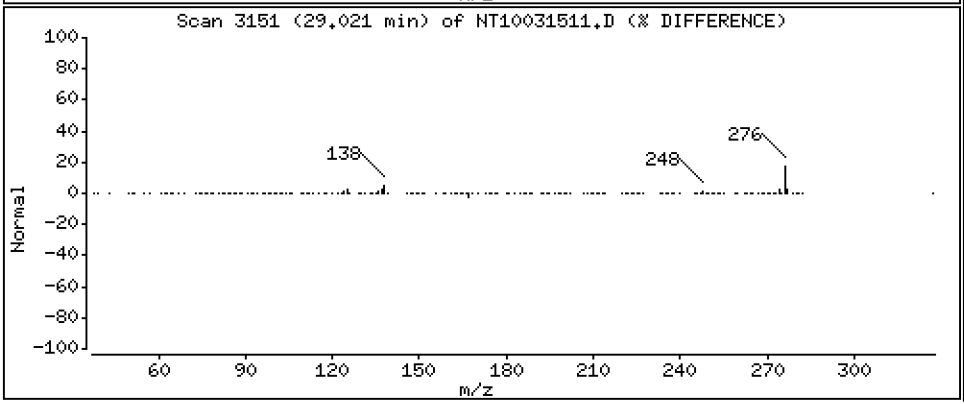
79 Dibenzo(a,h)anthracene

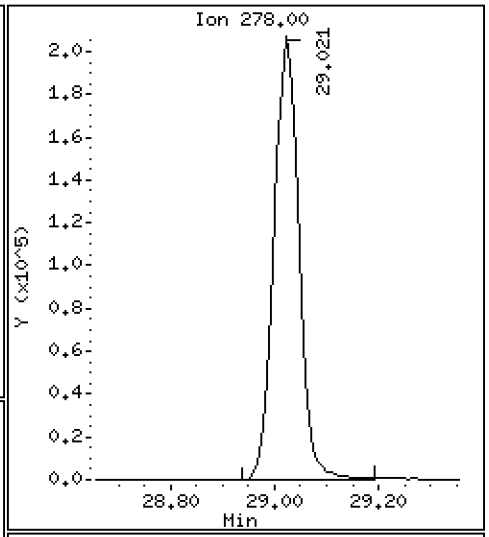
Concentration: 4.547 ug/mL

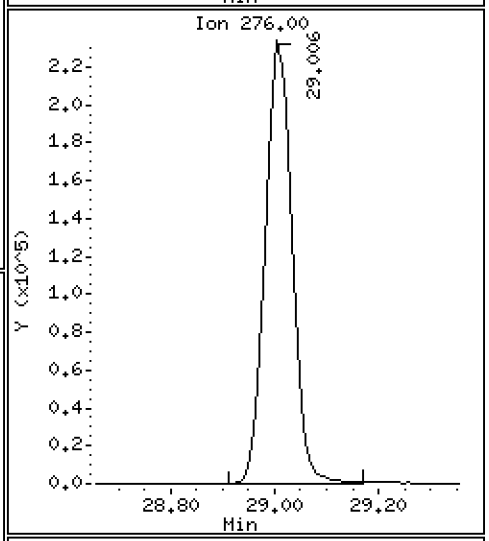


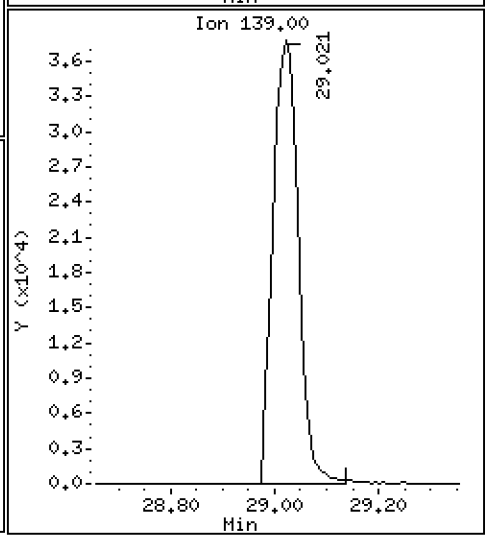












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

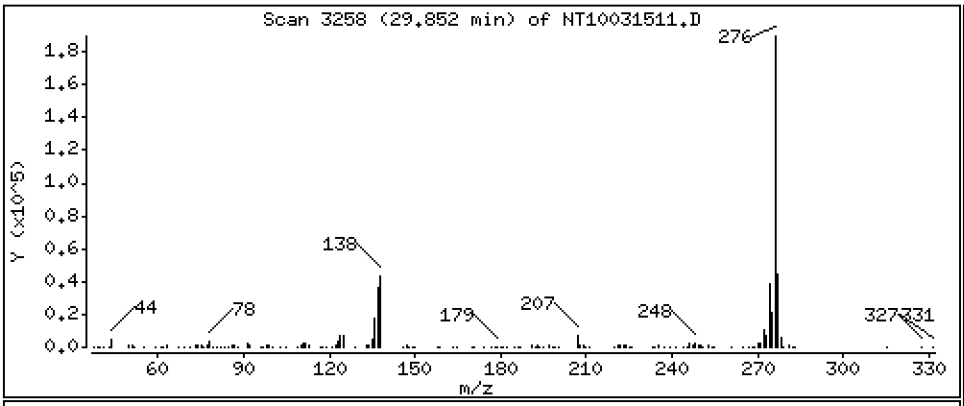
Operator: VTS

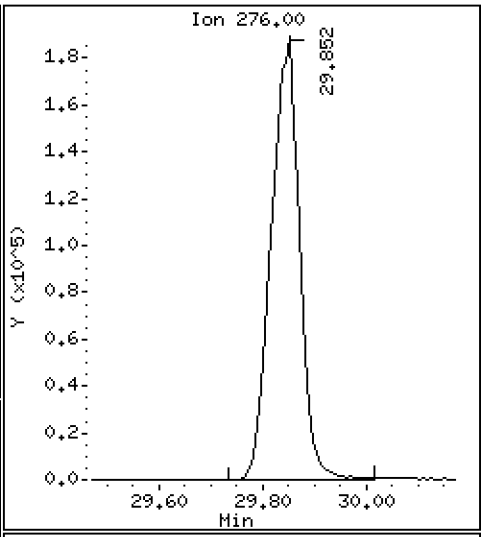
Column phase: ZB-5msi

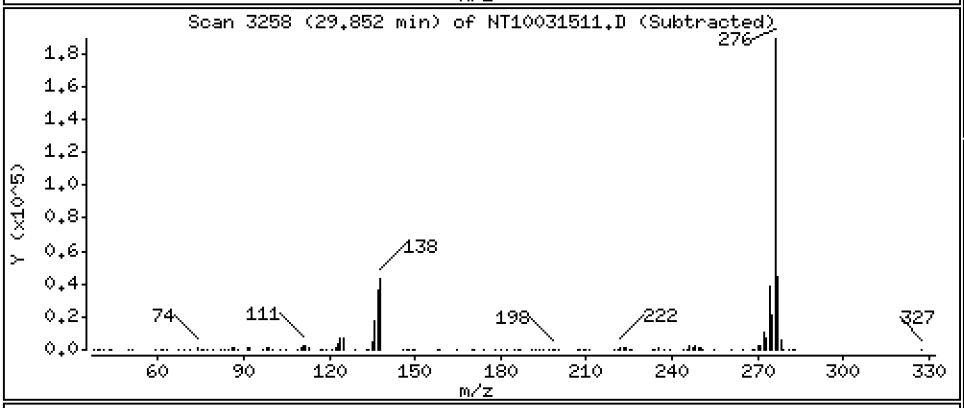
Column diameter: 0.25

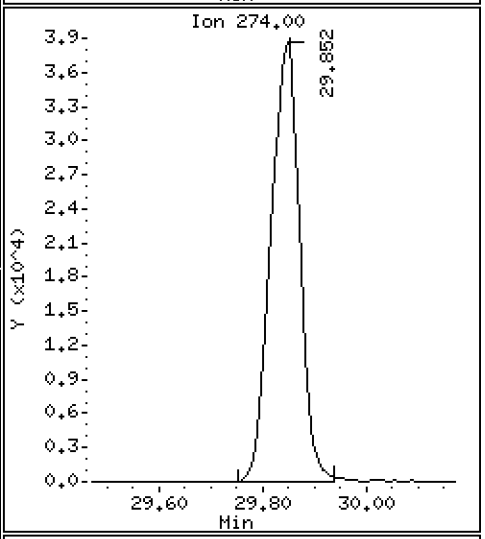
80 Benzo(g,h,i)perylene

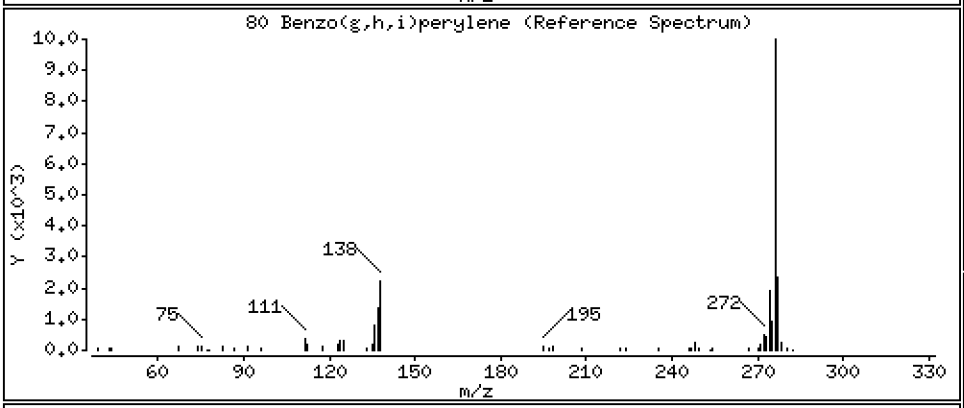
Concentration: 4.590 ug/mL

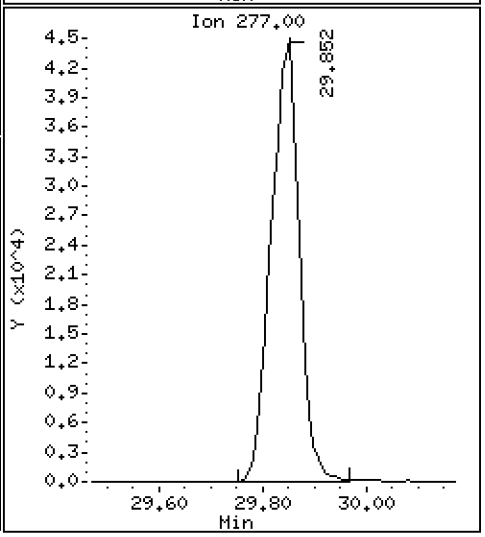


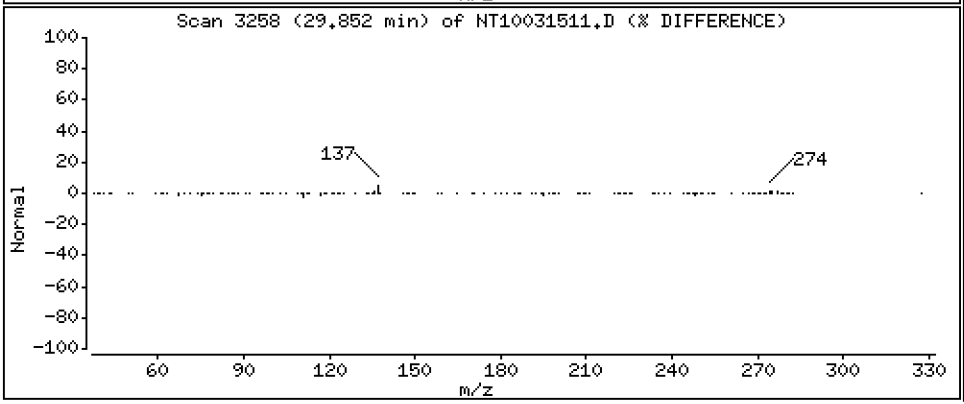












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

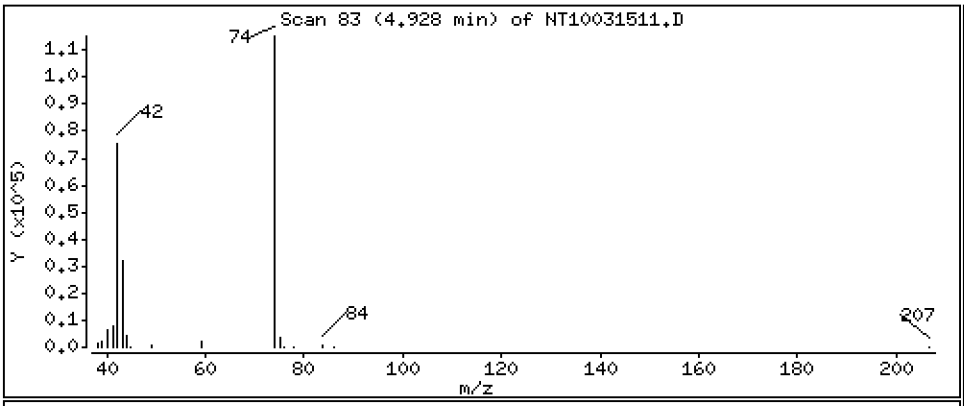
Operator: VTS

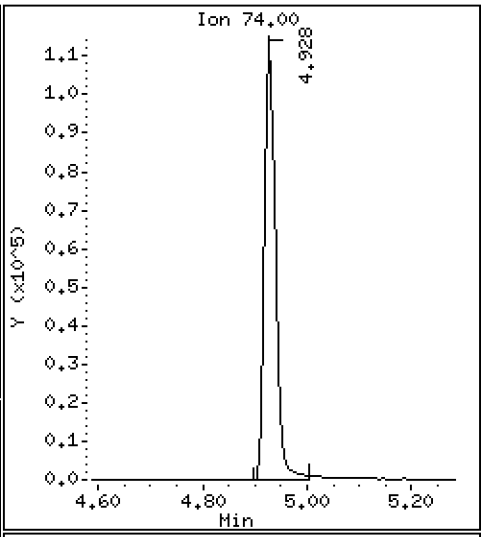
Column phase: ZB-5msi

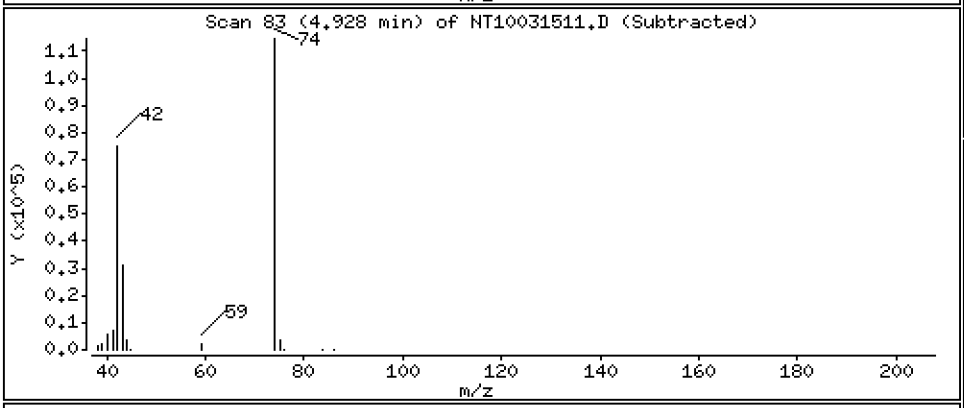
Column diameter: 0.25

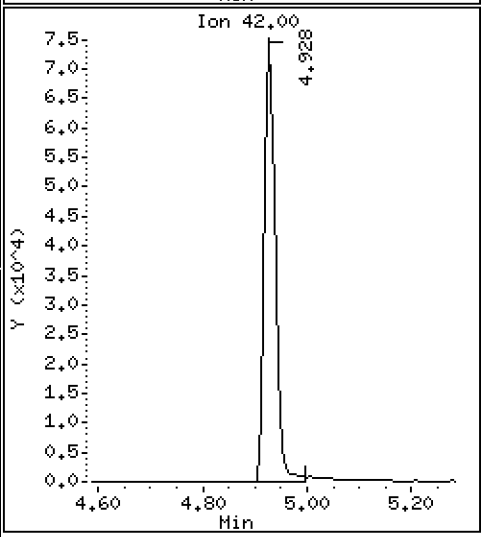
90 N-Nitrosodimethylamine

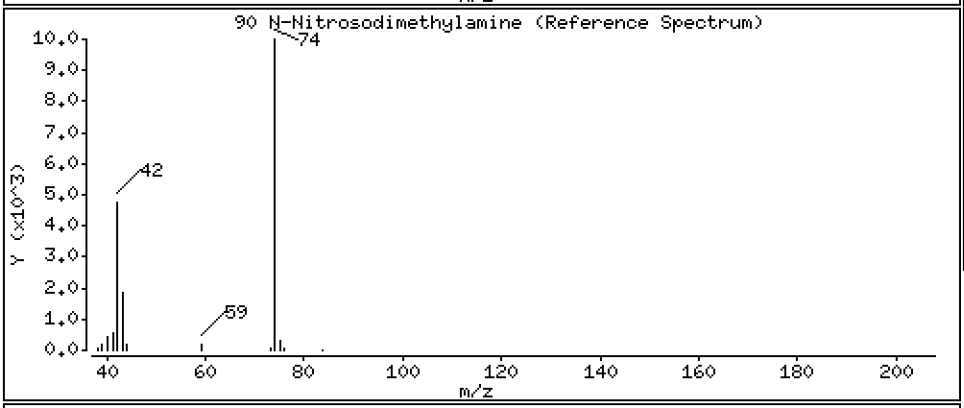
Concentration: 5.194 ug/mL

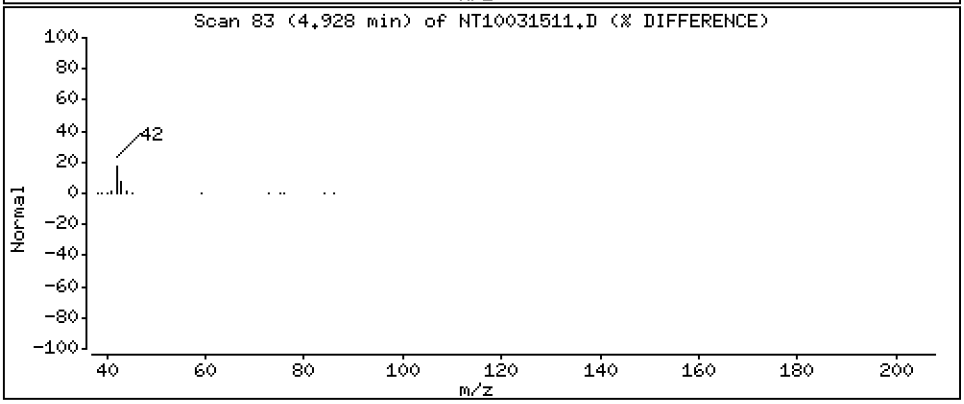












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

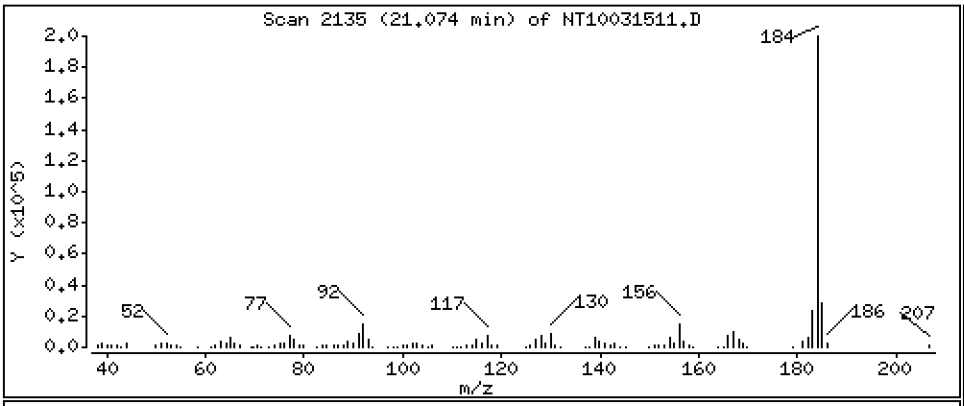
Operator: VTS

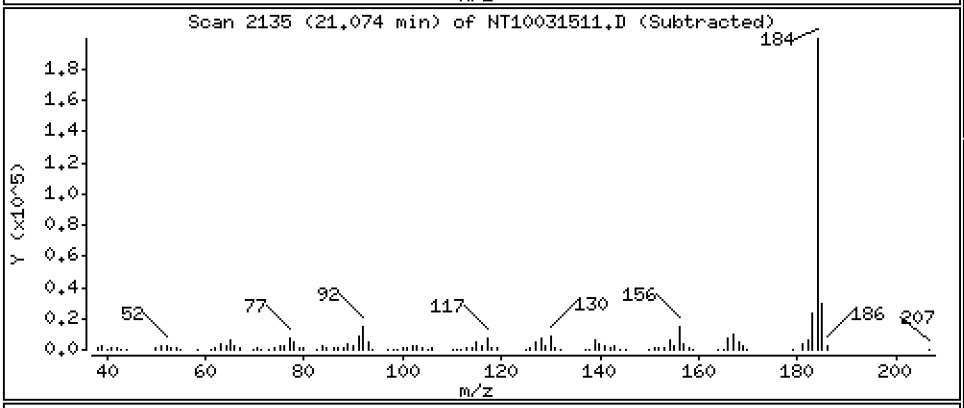
Column phase: ZB-5msi

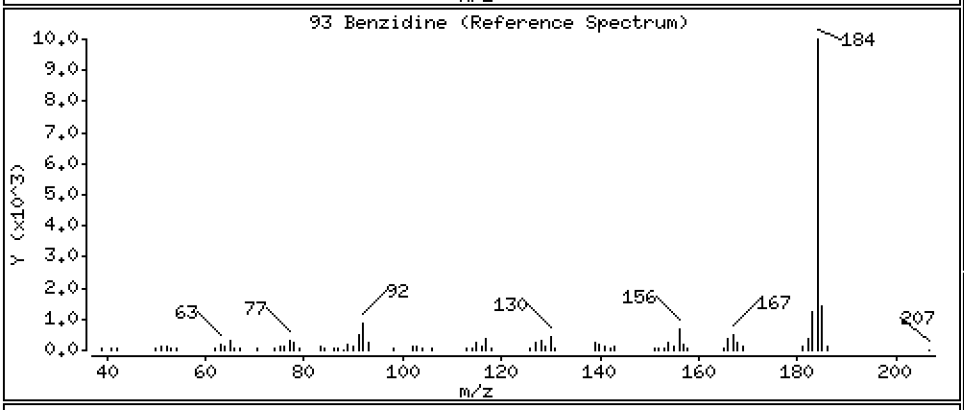
Column diameter: 0.25

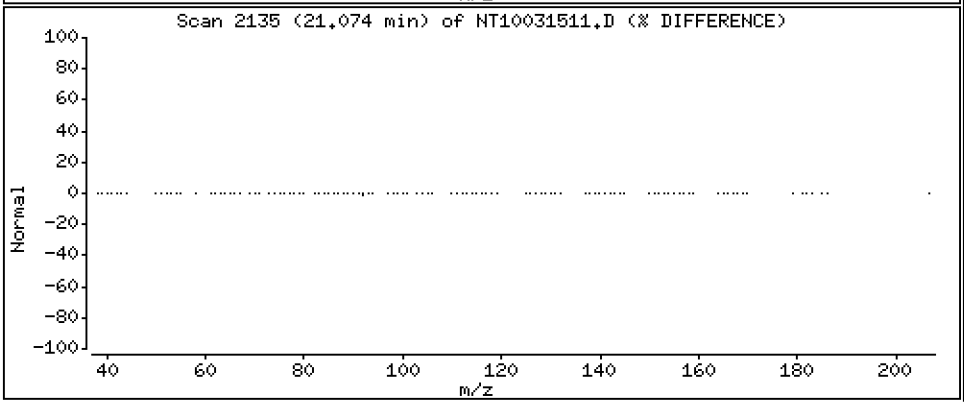
93 Benzidine

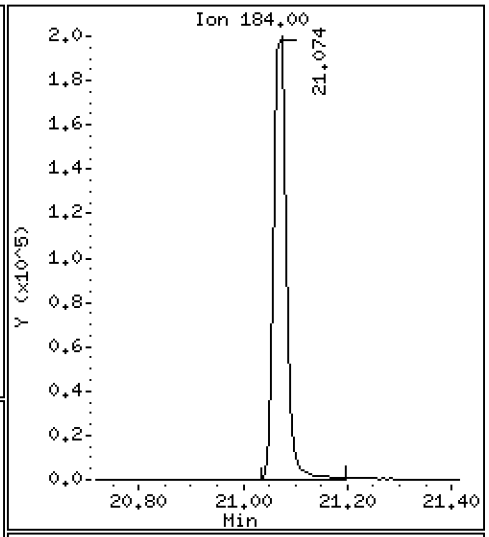
Concentration: 4.380 ug/mL

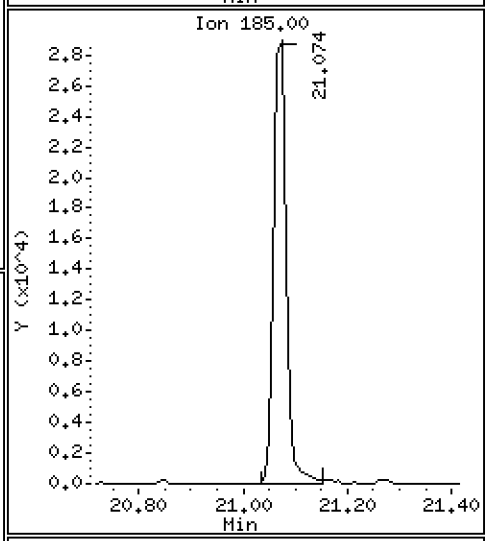


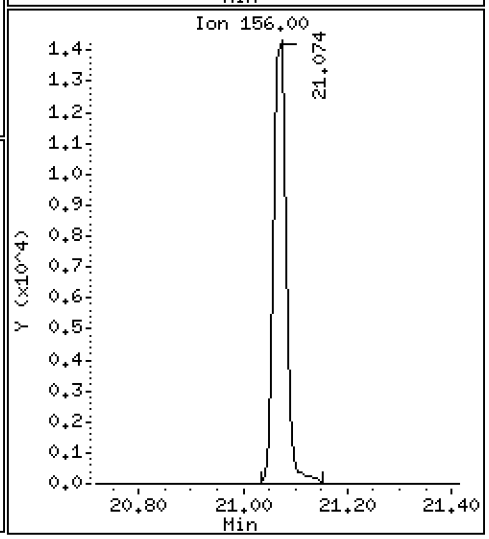












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

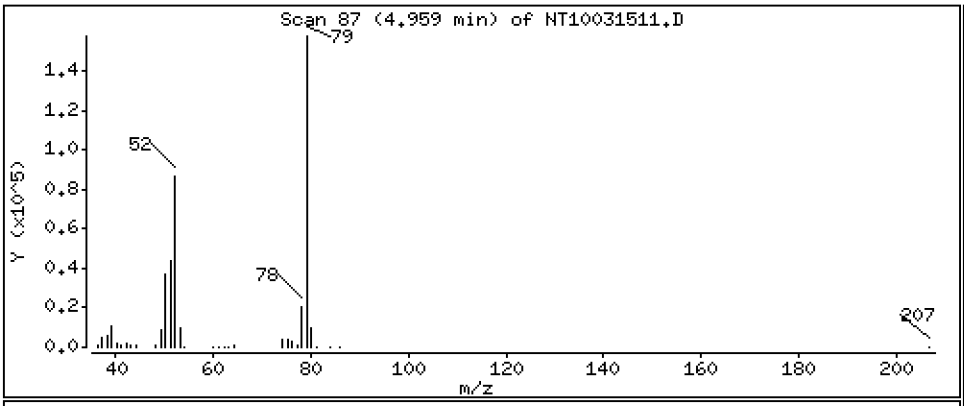
Operator: VTS

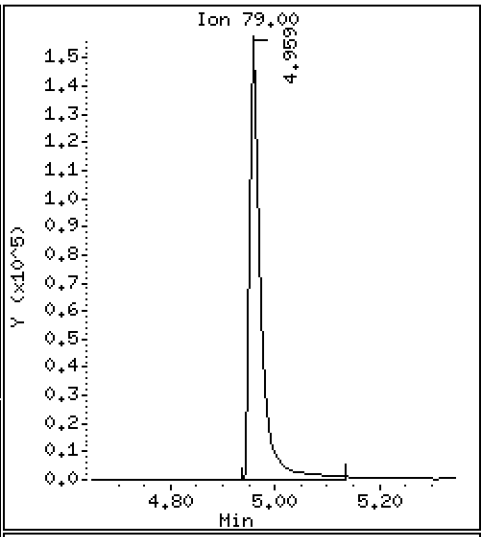
Column phase: ZB-5msi

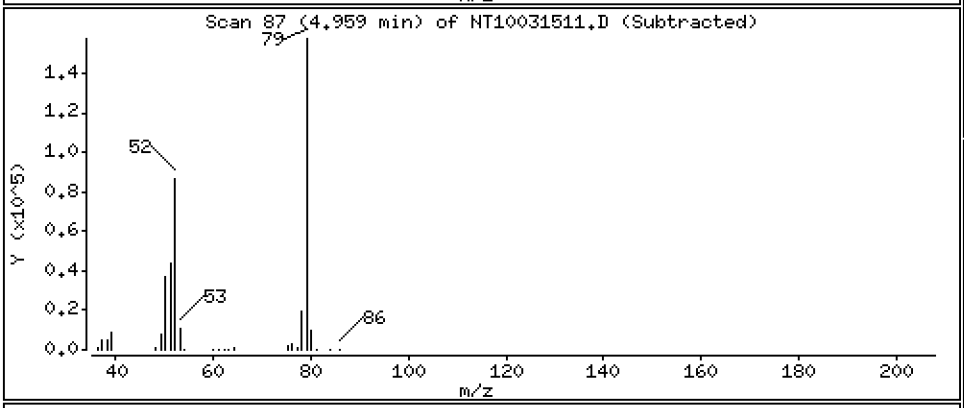
Column diameter: 0.25

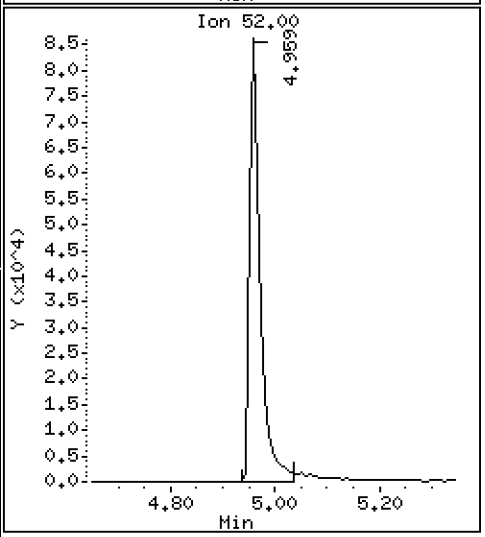
103 Pyridine

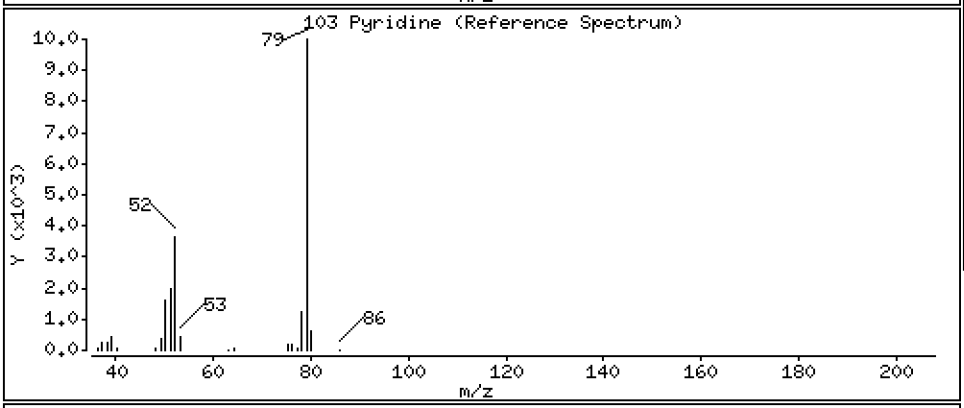
Concentration: 5.337 ug/mL

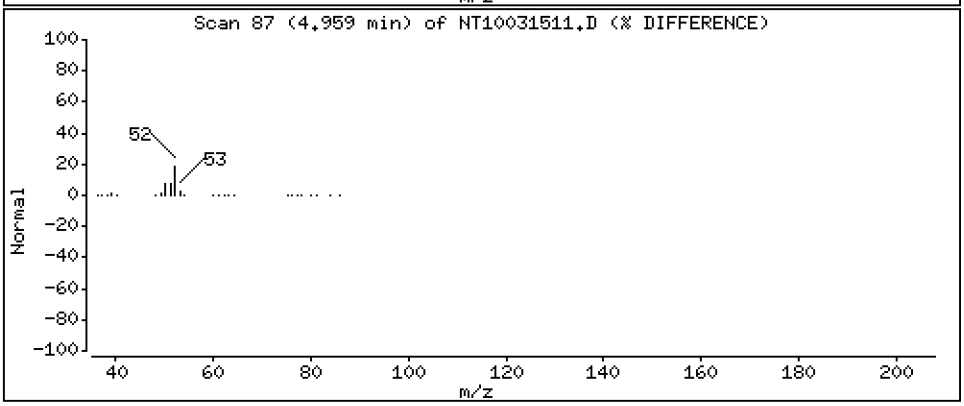












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

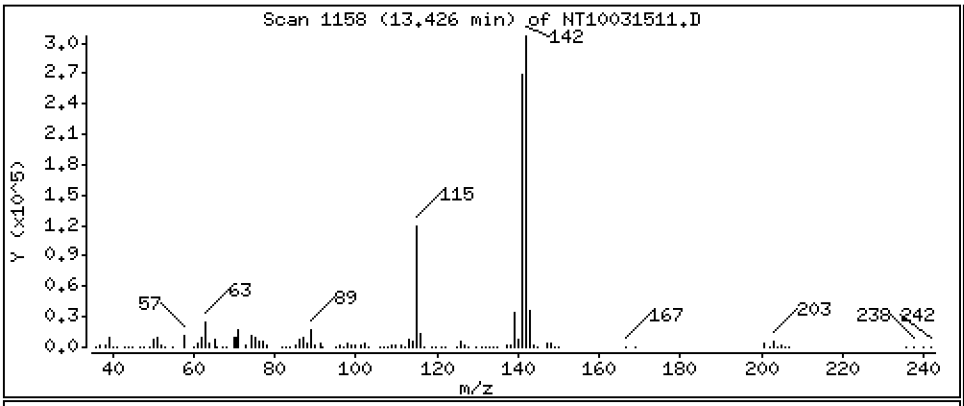
Operator: VTS

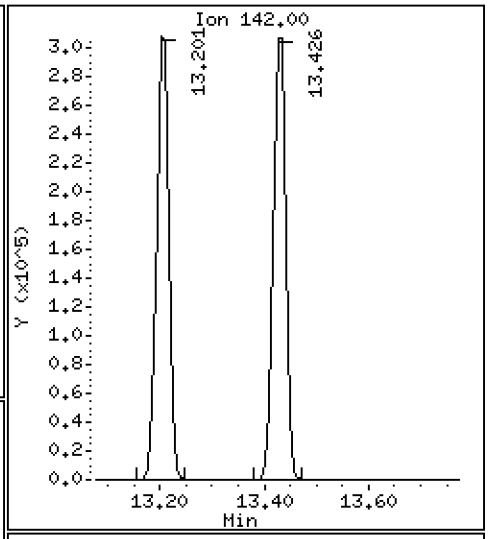
Column phase: ZB-5msi

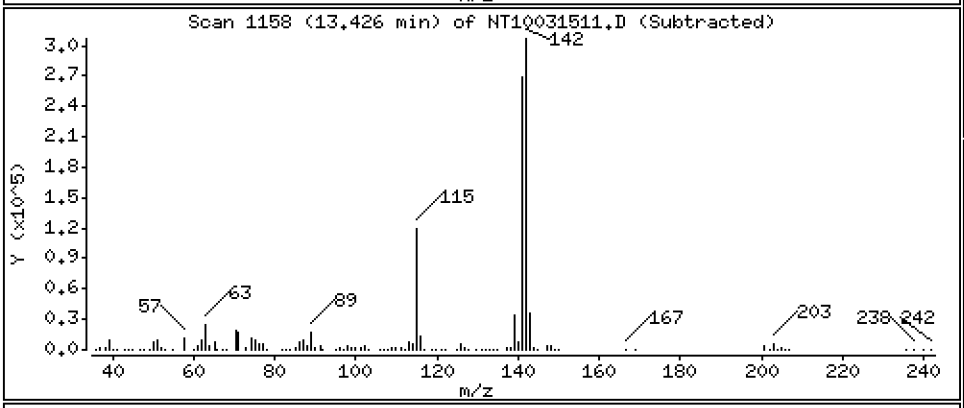
Column diameter: 0.25

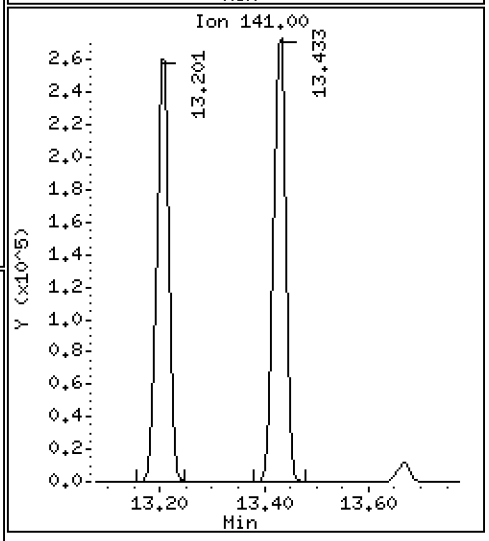
105 1-methylnaphthalene

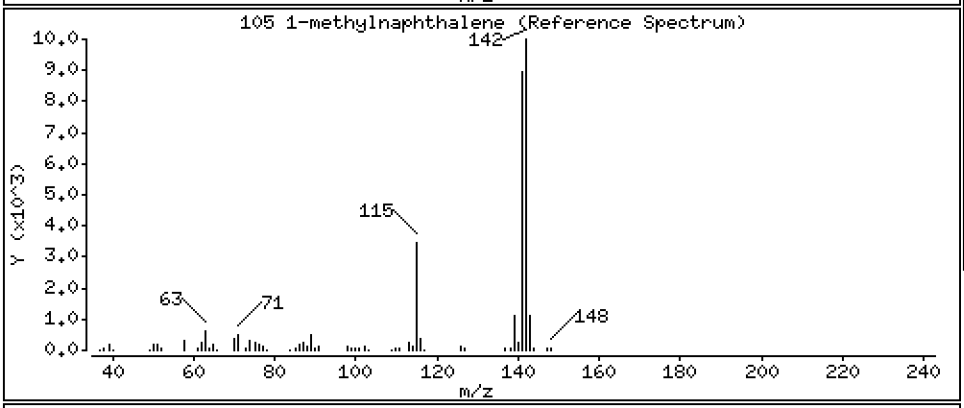
Concentration: 4.875 ug/mL

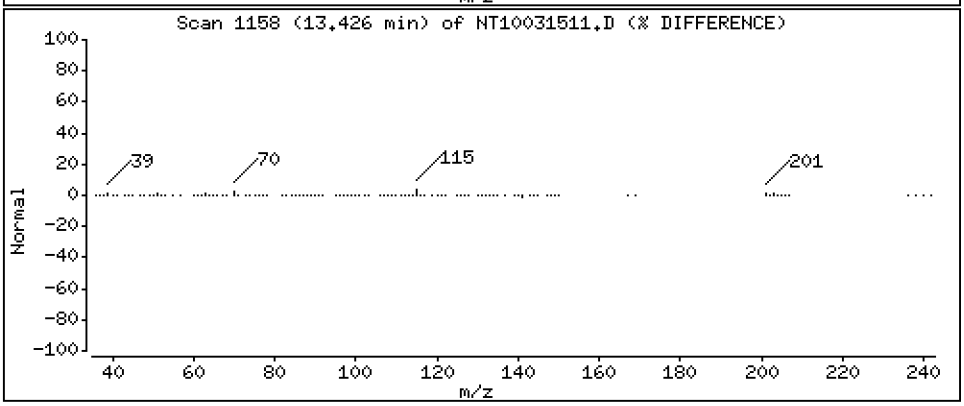












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

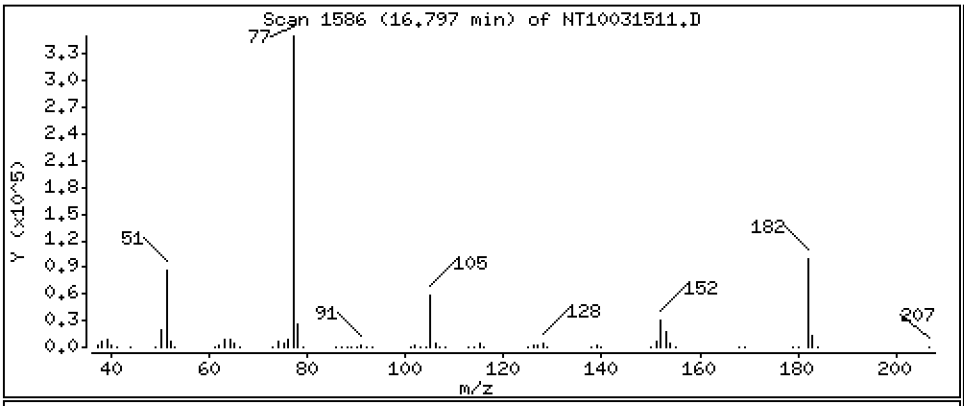
Operator: VTS

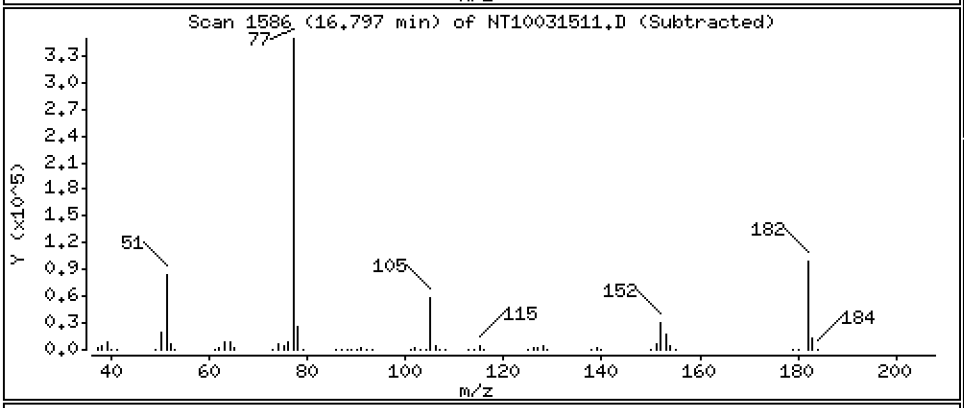
Column phase: ZB-5msi

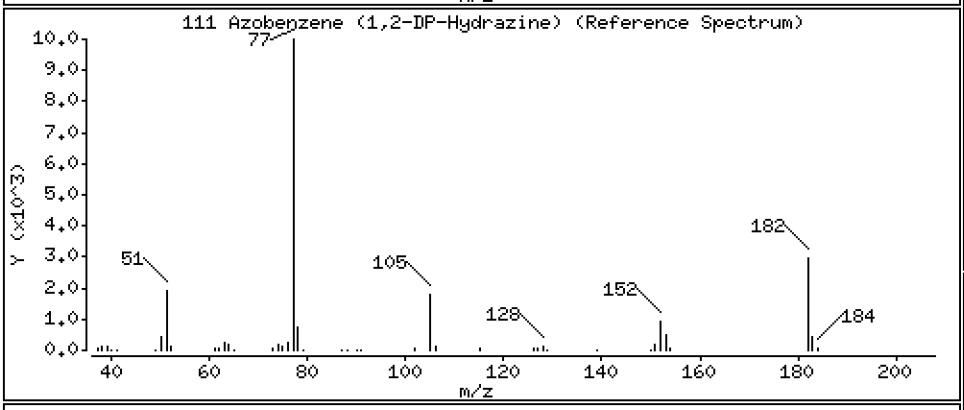
Column diameter: 0.25

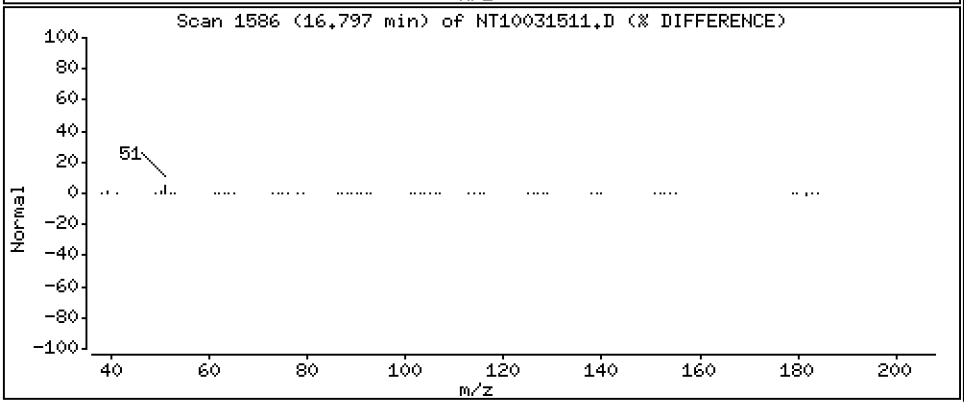
111 Azobenzene (1,2-DP-Hydrazine)

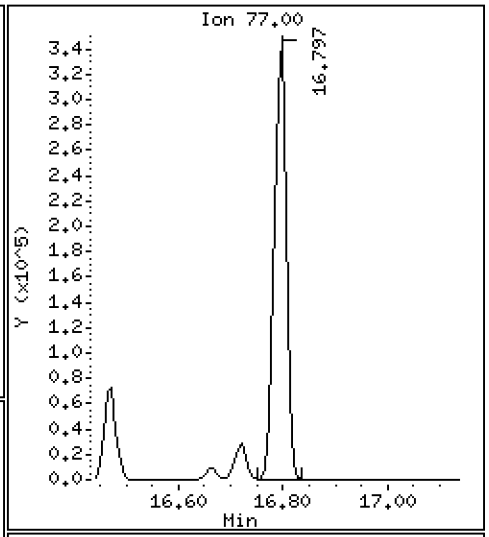
Concentration: 4.937 ug/mL

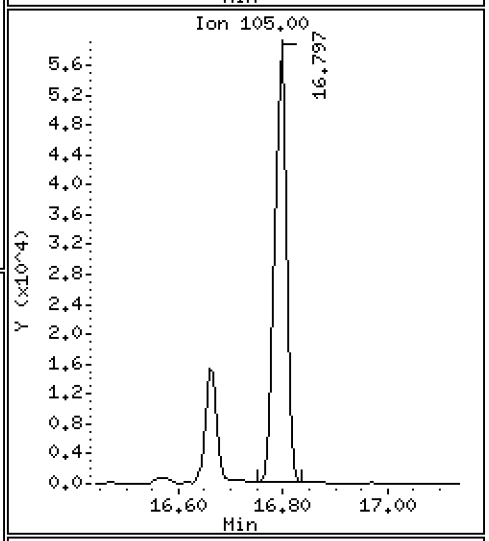


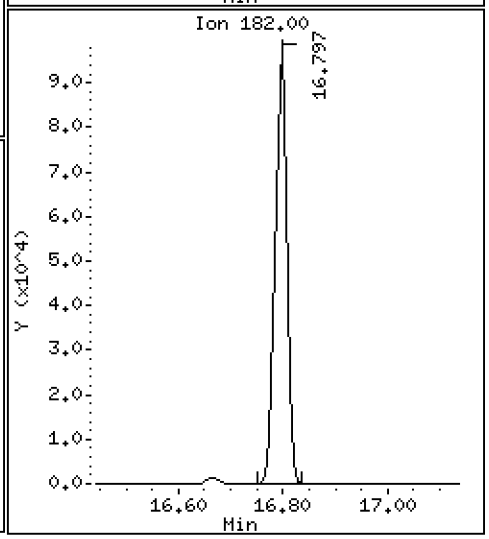












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

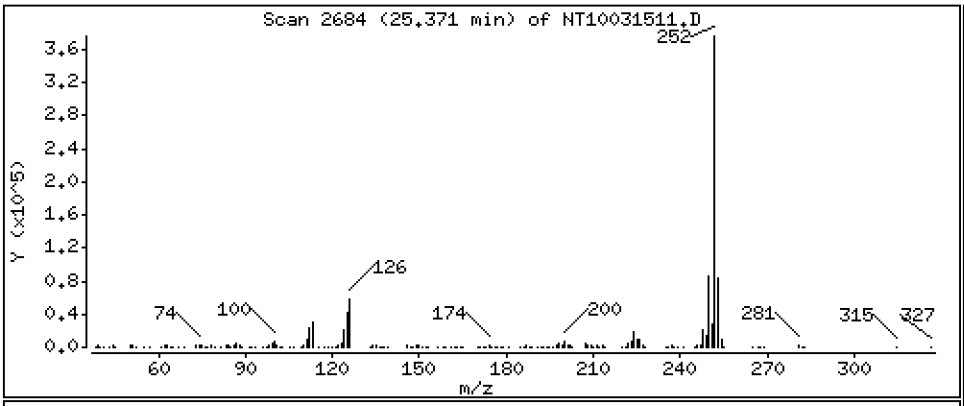
Operator: VTS

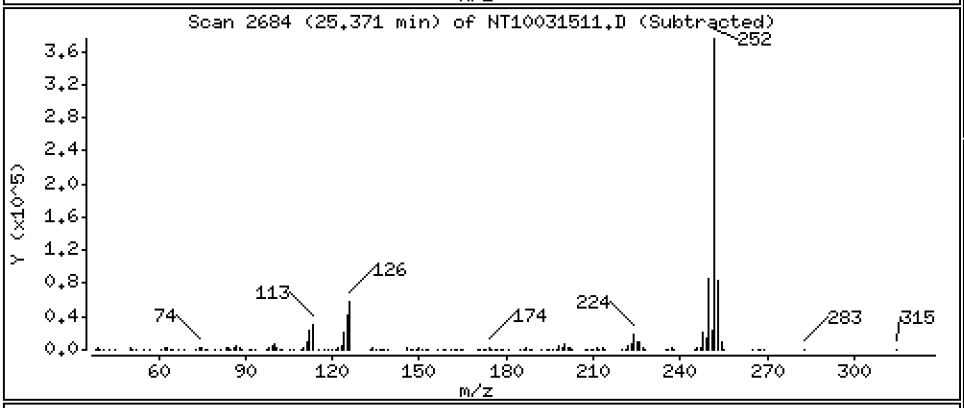
Column phase: ZB-5msi

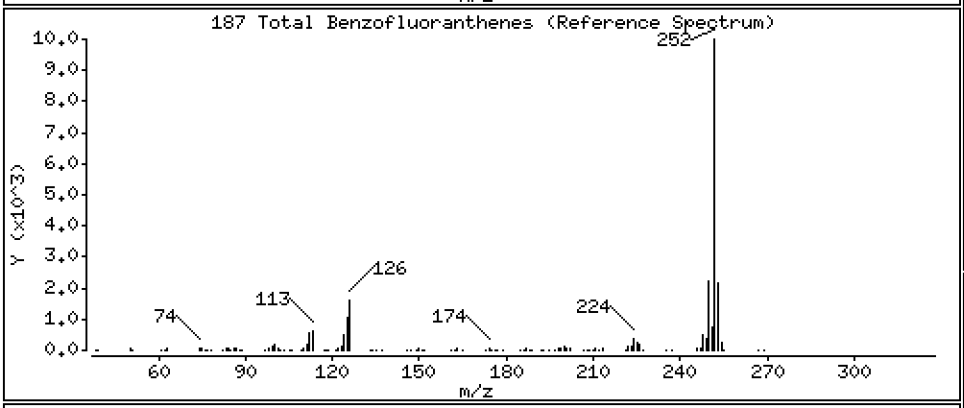
Column diameter: 0.25

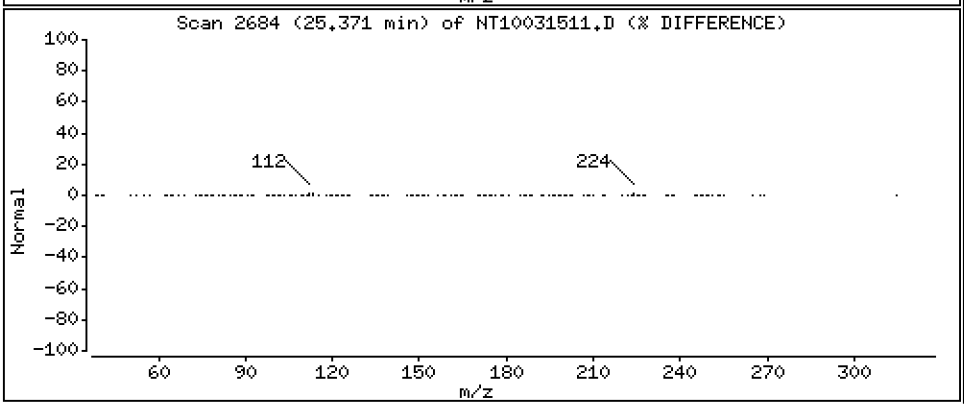
187 Total Benzofluoranthenes

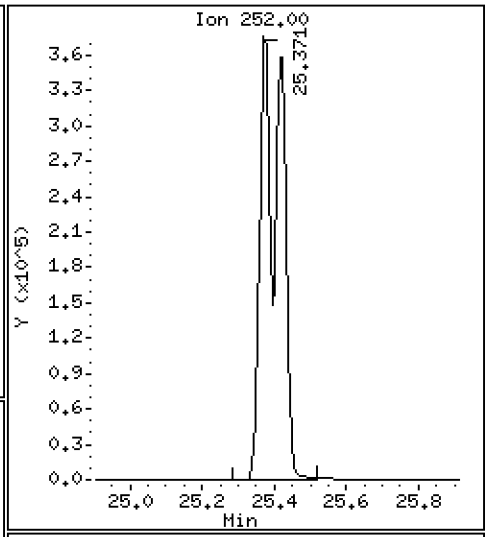
Concentration: 9.483 ug/mL

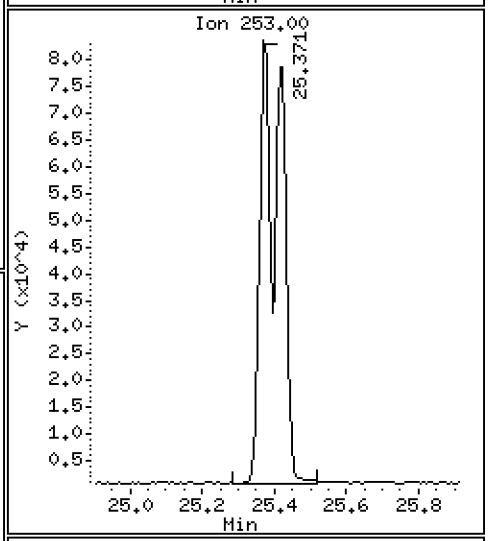


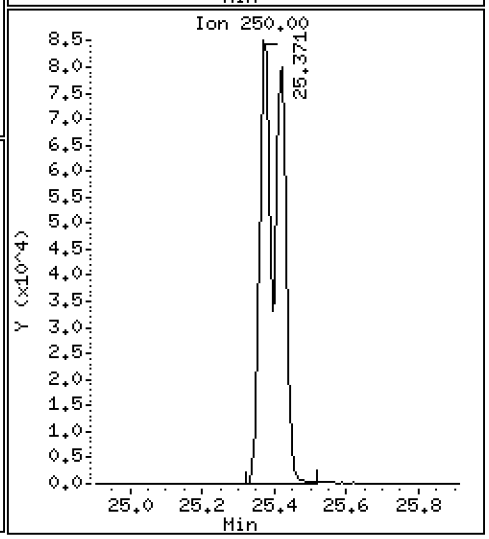












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

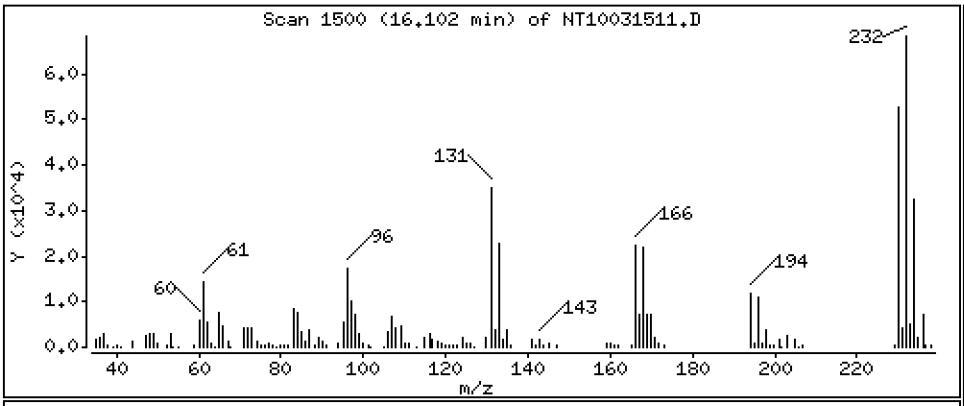
Operator: VTS

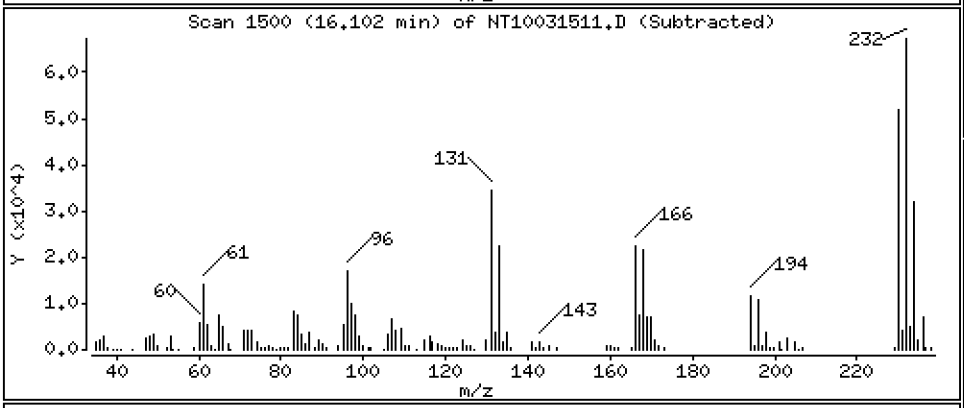
Column phase: ZB-5msi

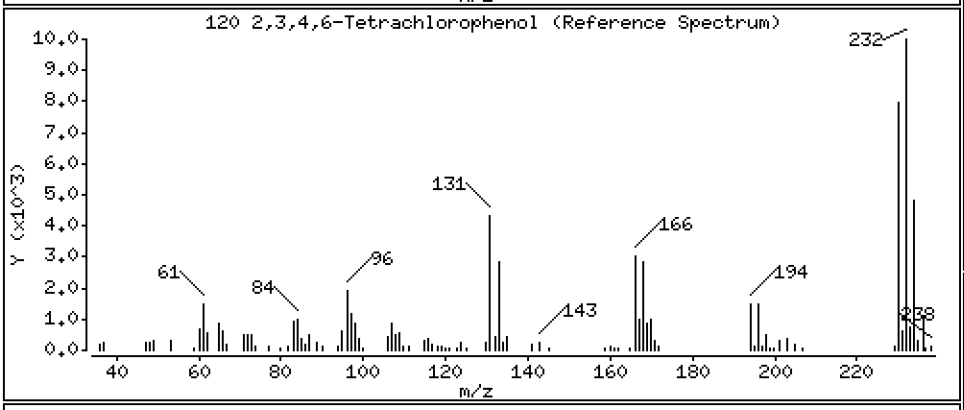
Column diameter: 0.25

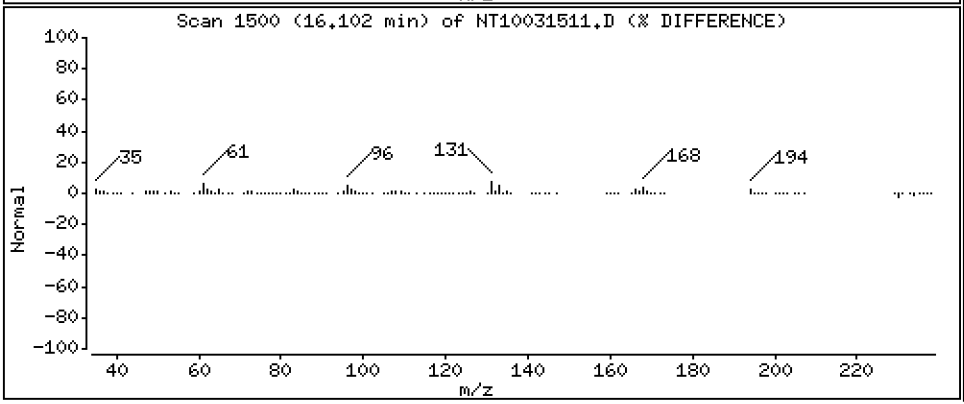
120 2,3,4,6-Tetrachlorophenol

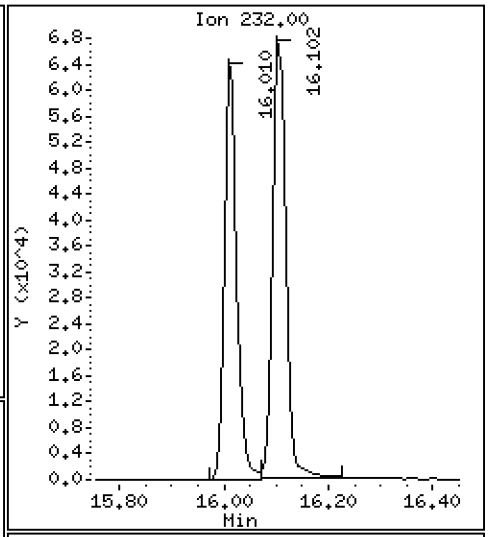
Concentration: 3.980 ug/mL

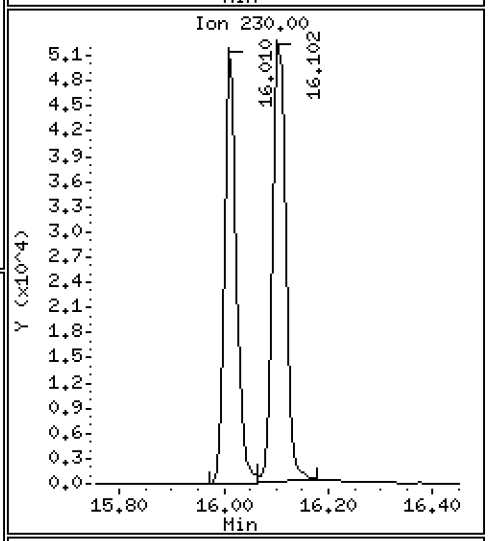


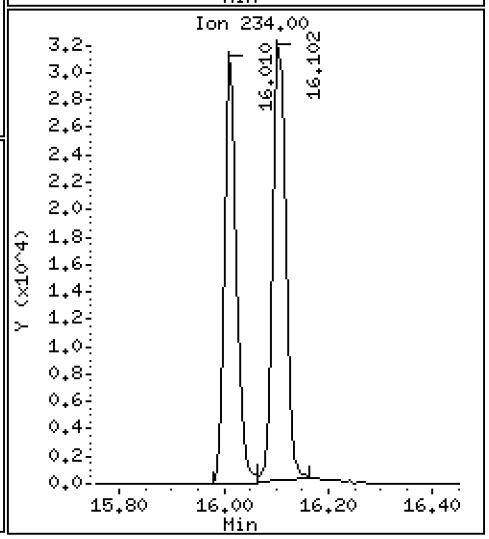












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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

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

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

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

QC Flag Legend

H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

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

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

Test Mode:
Use Last Continuing Calibrator.

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

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

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

REVIEW SUMMARY FOR FILE - NT10031511.D

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

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

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

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.952	0.000	0.9524	Benzoic acid

RRT check based on Ccal File: NT10031508.D

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

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

LOW-CONCENTRATION CALIBRATION VERIFICATION

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GC00046
Laboratory ID: SLD0293-LCV1
Sequence: SLD0293
Standard ID: K011106

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	0.50000	0.4	-17.4	50.00
4-Methylphenol	0.50000	0.4	-10.4	50.00
Naphthalene	0.50000	0.5	-7.5	50.00
2-Methylnaphthalene	0.50000	0.5	4.0	50.00
Acenaphthylene	0.50000	0.4	-10.3	50.00
Dimethylphthalate	0.50000	0.5	1.2	50.00
Acenaphthene	0.50000	0.4	-12.6	50.00
Dibenzofuran	0.50000	0.5	-4.0	50.00
Fluorene	0.50000	0.5	-7.9	50.00
Phenanthrene	0.50000	0.5	-3.0	50.00
Anthracene	0.50000	0.5	-7.5	50.00
Fluoranthene	0.50000	0.4	-25.7	50.00
Pyrene	0.50000	0.4	-21.9	50.00
Butylbenzylphthalate	0.50000	0.4	-10.4	50.00
Benzo(a)anthracene	0.50000	0.5	-7.9	50.00
Chrysene	0.50000	0.4	-13.7	50.00
bis(2-Ethylhexyl)phthalate	0.50000	0.4	-15.7	50.00
Benzofluoranthenes, Total	1.0000	1.0	-1.9	50.00
Benzo(a)pyrene	0.50000	0.5	-3.0	50.00
Indeno(1,2,3-cd)pyrene	0.50000	0.4	-18.1	50.00
Dibenzo(a,h)anthracene	0.50000	0.4	-19.2	50.00
Benzo(g,h,i)perylene	0.50000	0.4	-29.2	50.00
2-Fluorophenol	0.75000	0.671	-10.6	50.00
Phenol-d5	0.75000	0.595	-20.6	50.00
2-Chlorophenol-d4	0.75000	0.676	-9.8	50.00
1,2-Dichlorobenzene-d4	0.50000	0.443	-11.5	50.00
Nitrobenzene-d5	0.50000	0.419	-16.3	50.00
2-Fluorobiphenyl	0.50000	0.436	-12.8	50.00
2,4,6-Tribromophenol	0.75000	0.632	-15.7	50.00

LOW-CONCENTRATION CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GC00046
Laboratory ID: SLD0293-LCV1
Sequence: SLD0293
Standard ID: K011106

p-Terphenyl-d14	0.50000	0.404	-19.2	50.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192334.D

Date : 20-APR-2023 08:19

Client ID:

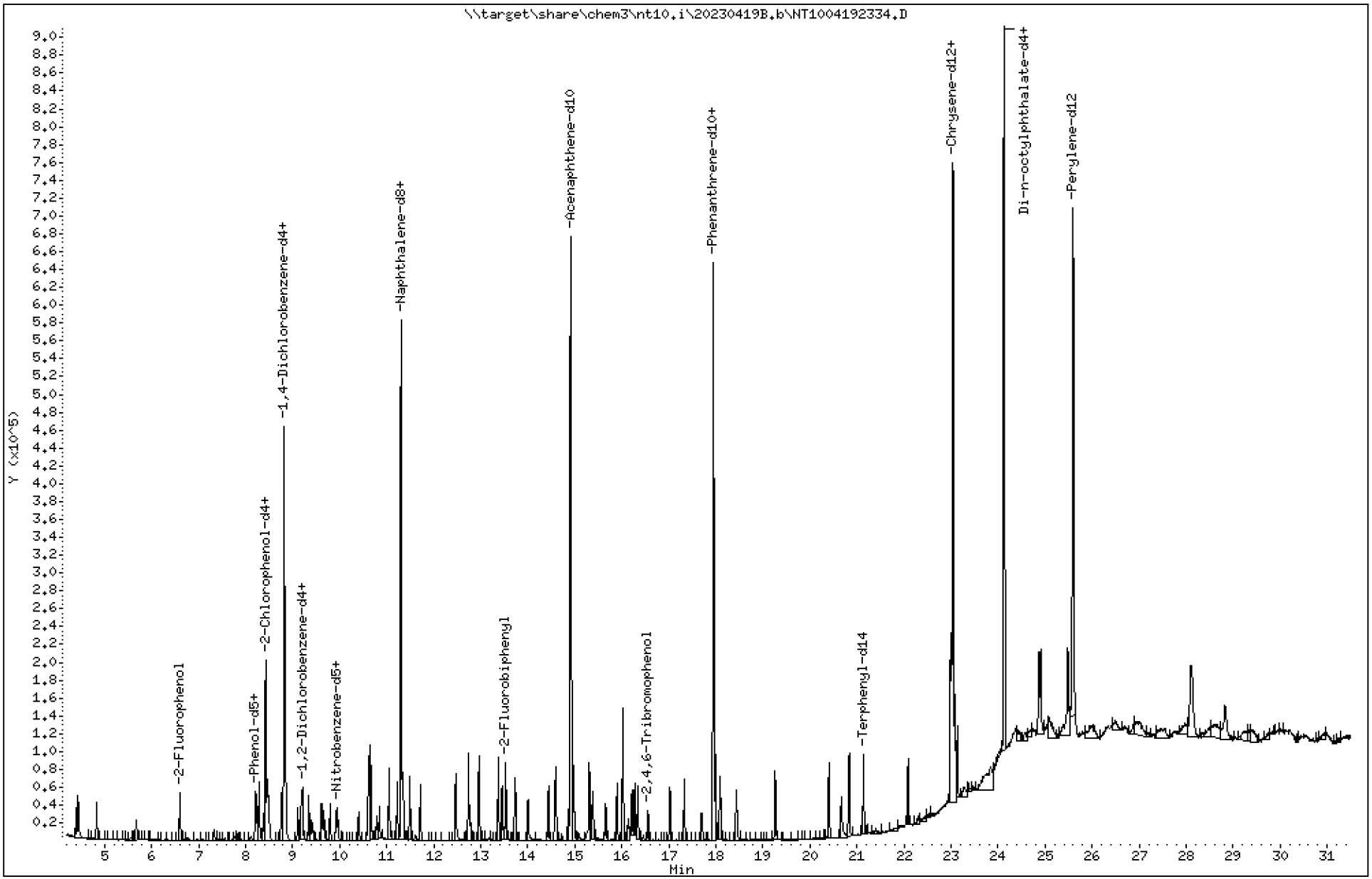
Instrument: nt10.i

Sample Info: SLD0293-LCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

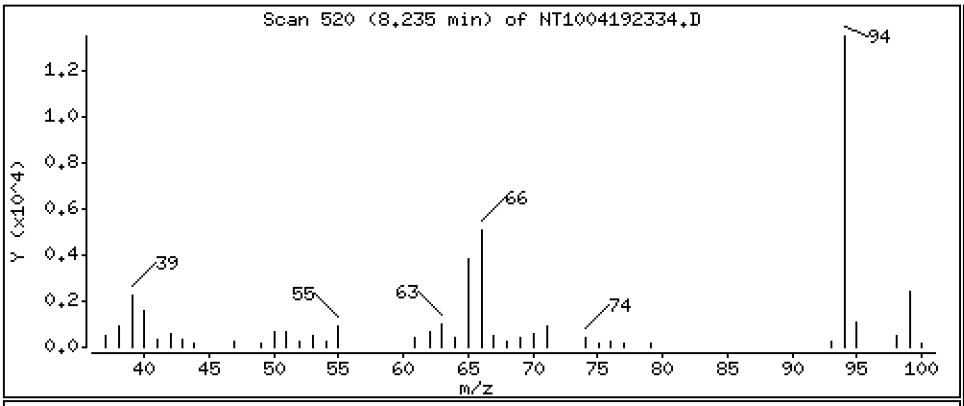
Operator: VTS

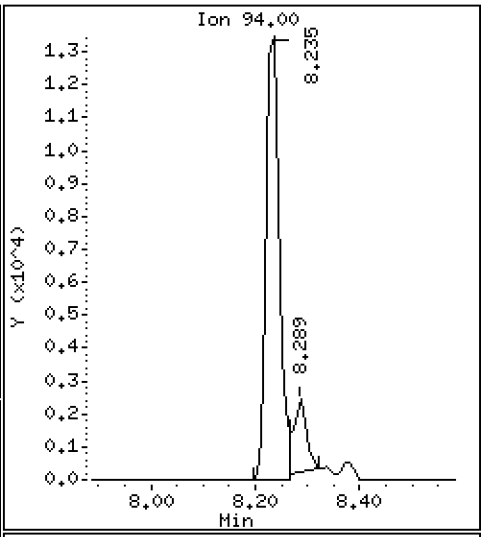
Column phase: ZB-5msi

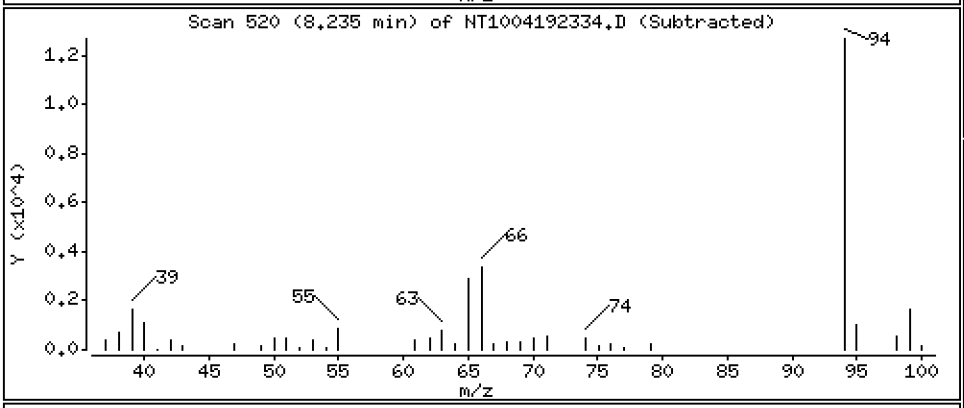
Column diameter: 0.25

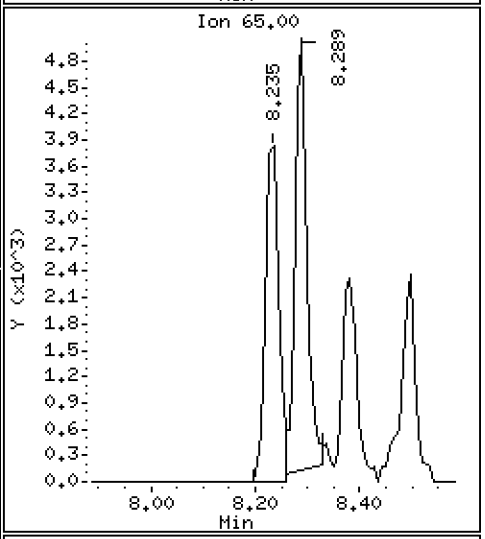
3 Phenol

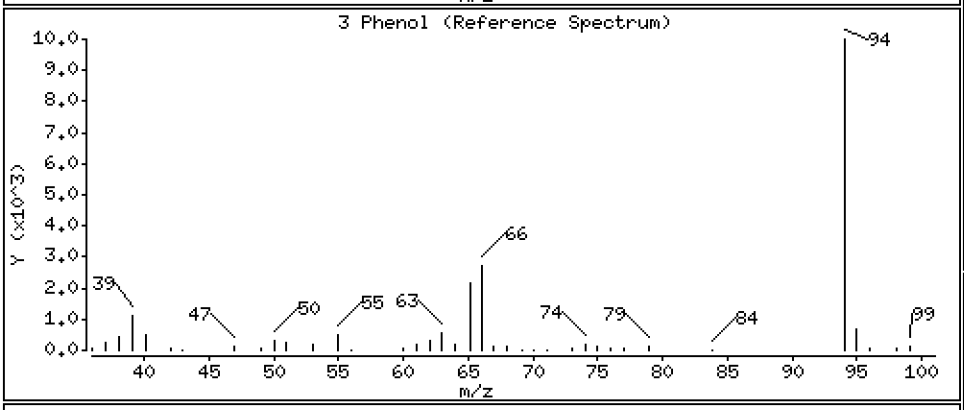
Concentration: 0.4128 ug/mL

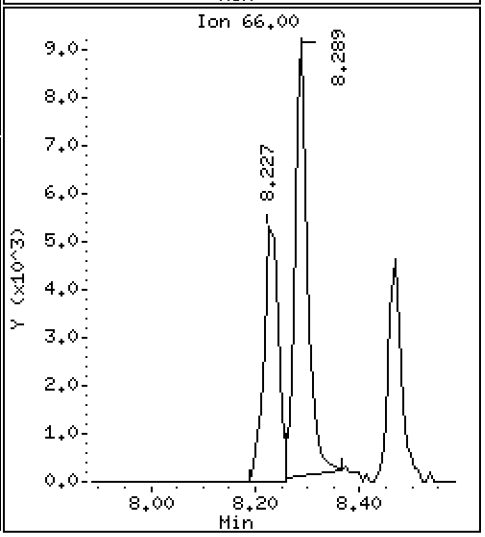


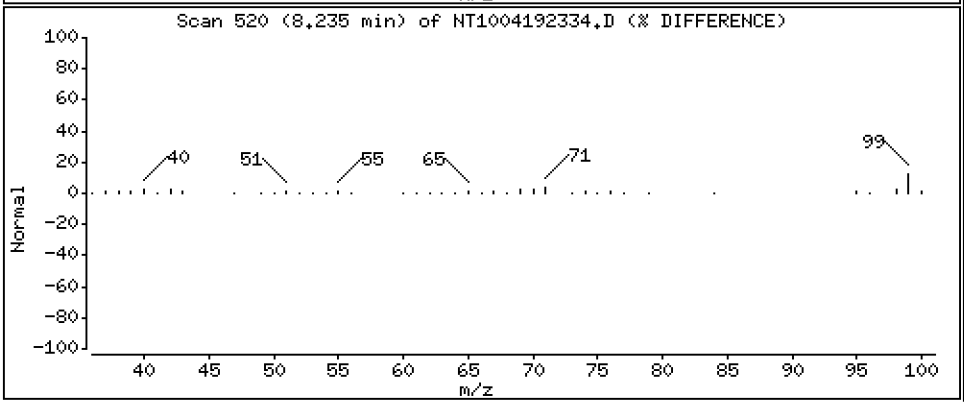












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

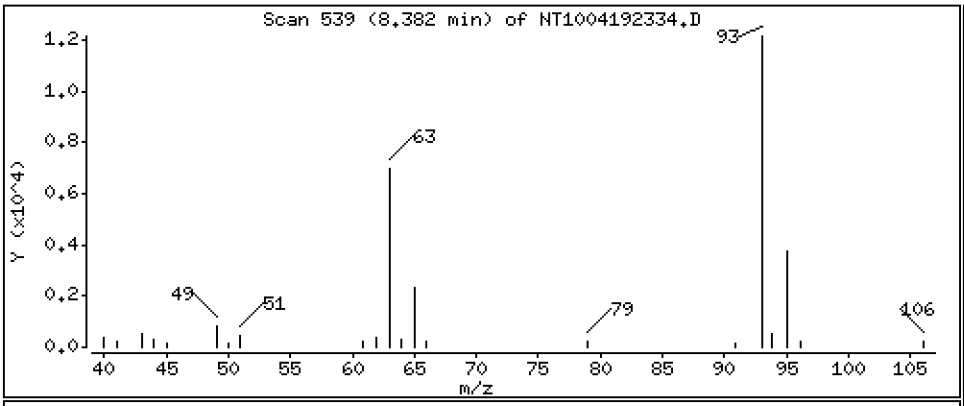
Operator: VTS

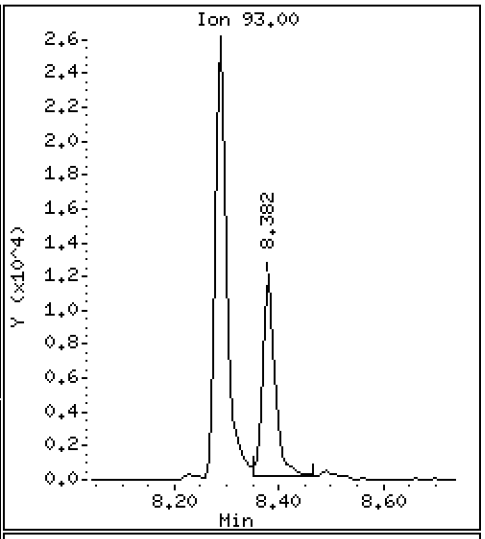
Column phase: ZB-5msi

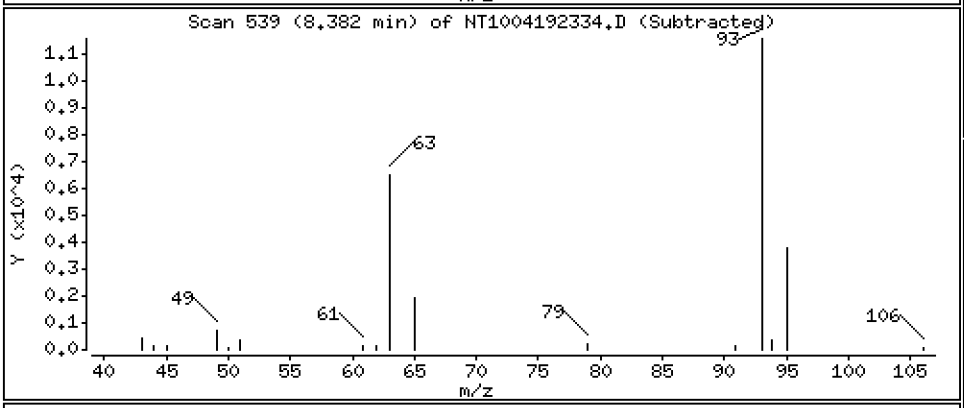
Column diameter: 0.25

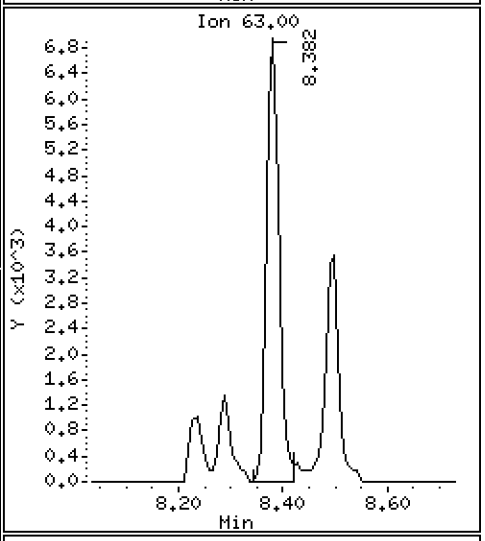
4 Bis(2-Chloroethyl)ether

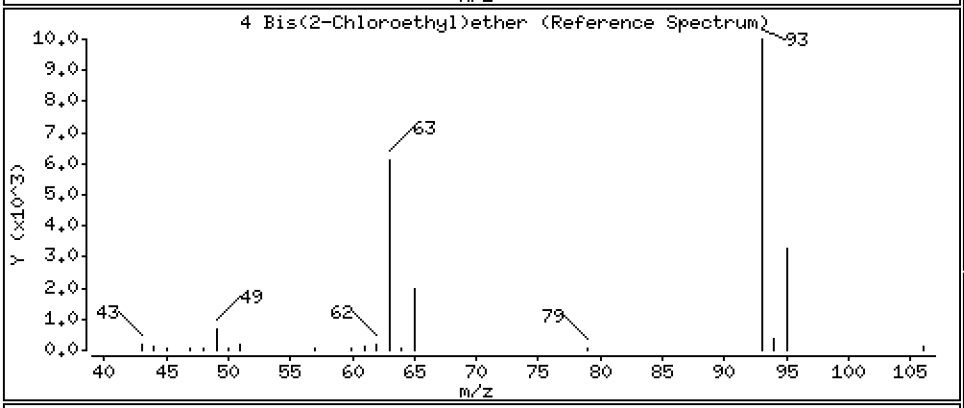
Concentration: 0.4707 ug/mL

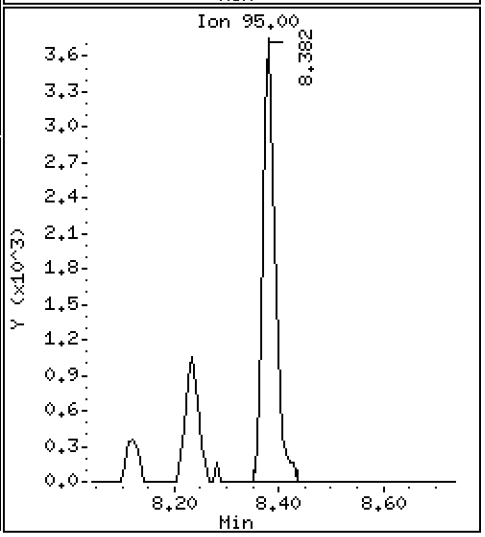


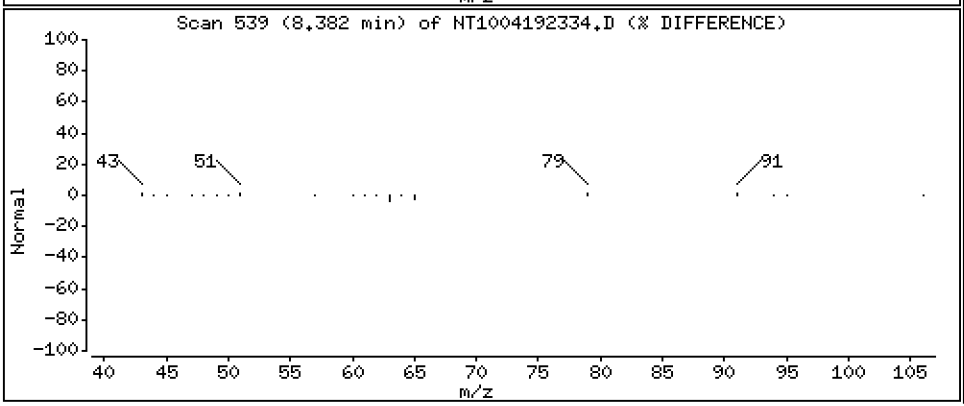












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

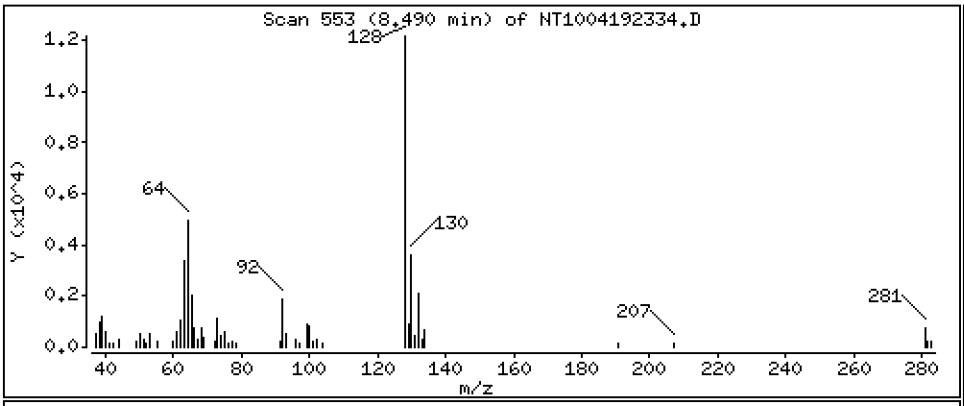
Operator: VTS

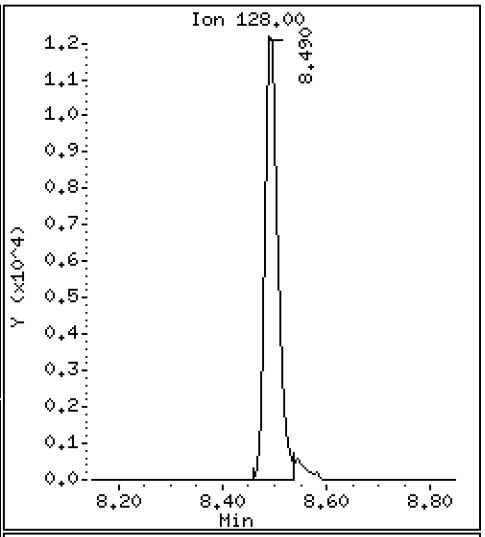
Column phase: ZB-5msi

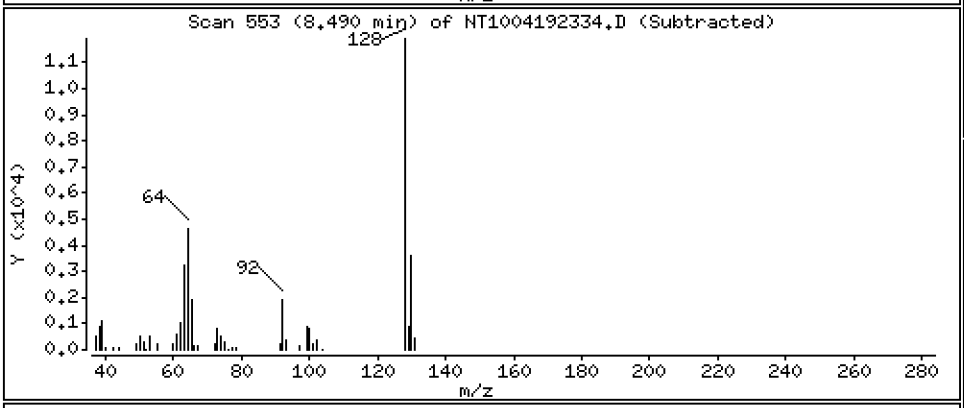
Column diameter: 0.25

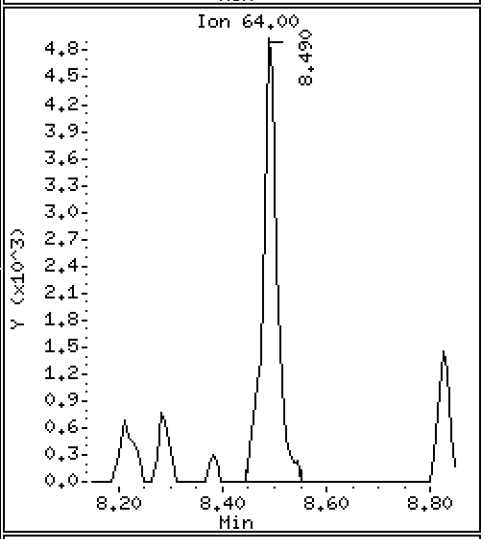
6 2-Chlorophenol

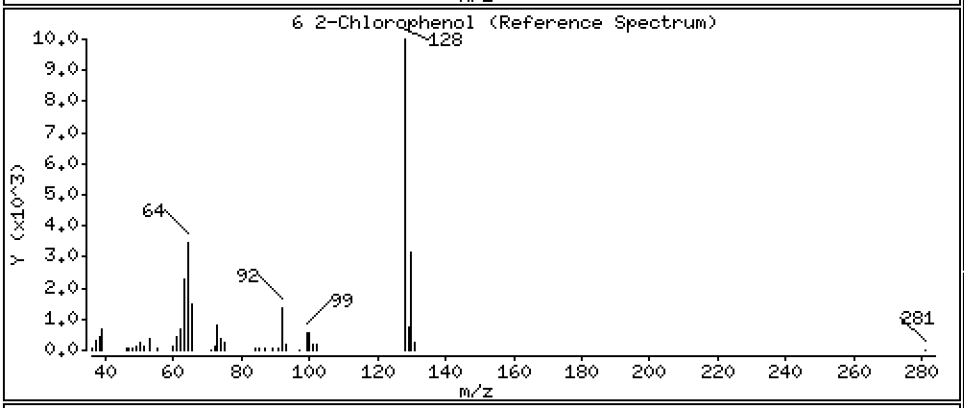
Concentration: 0.4523 ug/mL

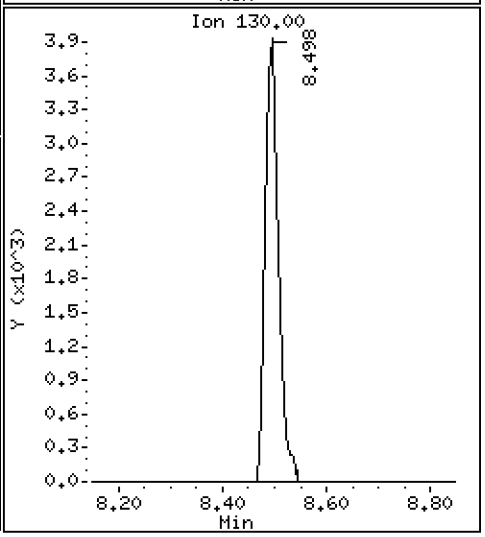


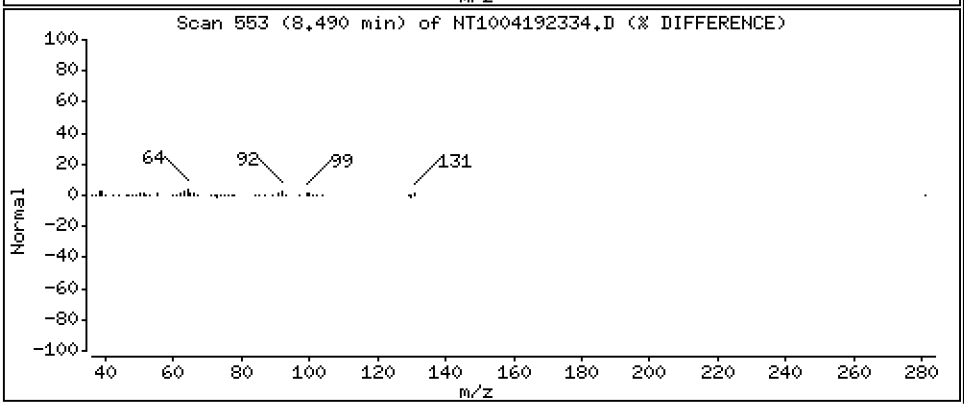












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

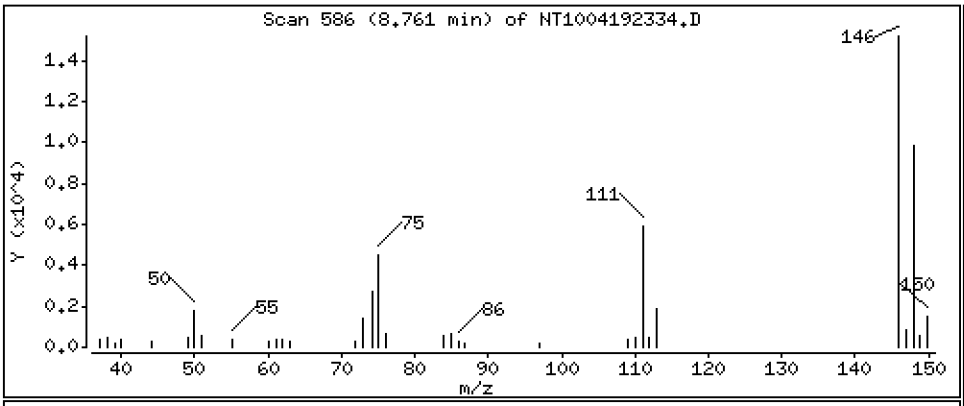
Operator: VTS

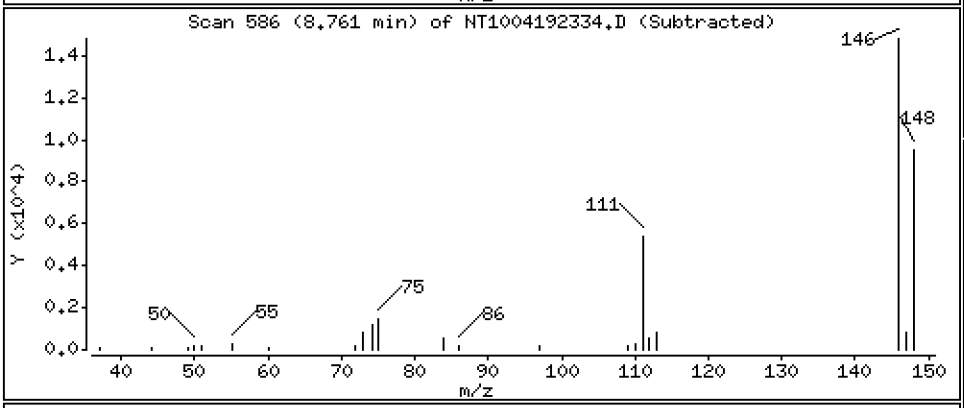
Column phase: ZB-5msi

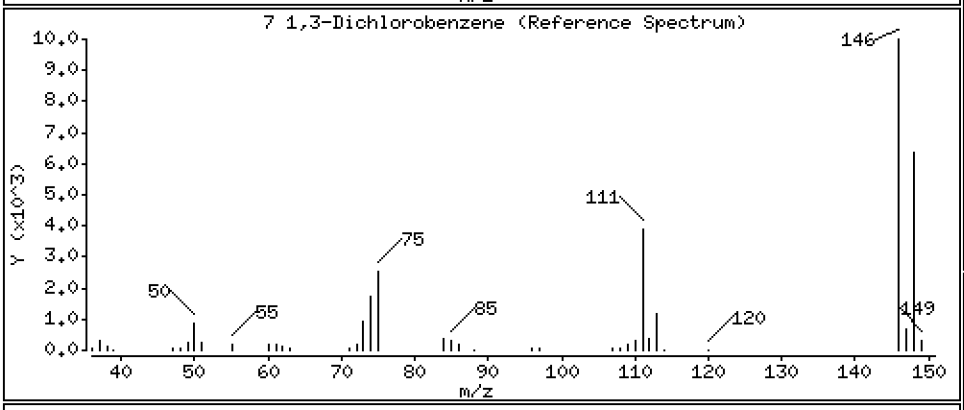
Column diameter: 0.25

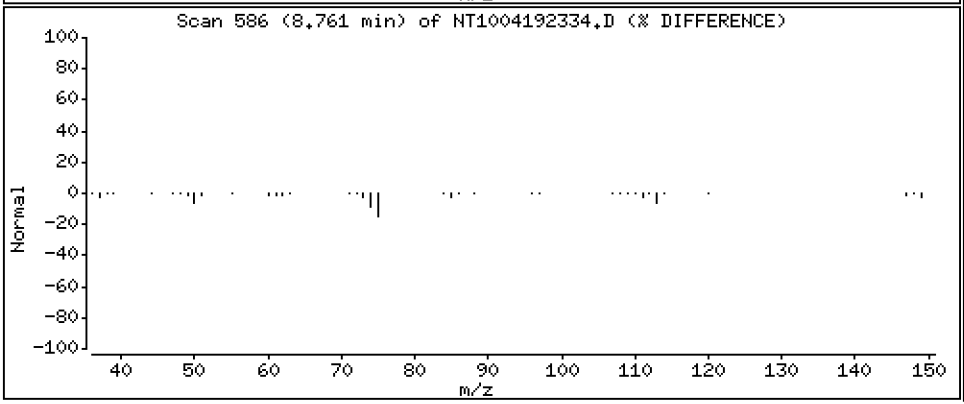
7 1,3-Dichlorobenzene

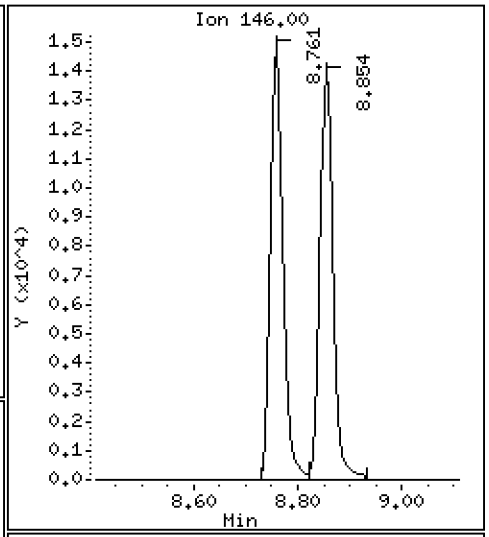
Concentration: 0.4999 ug/mL

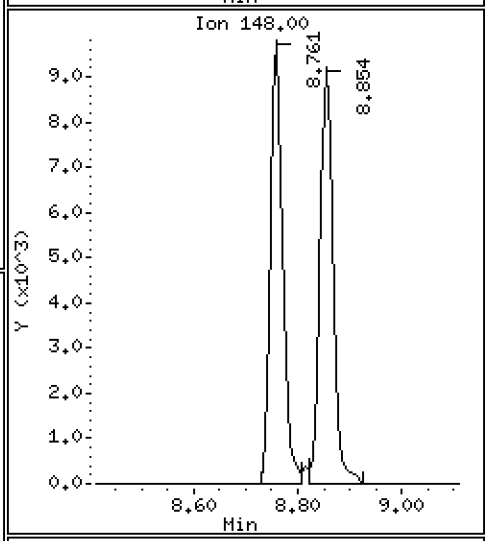


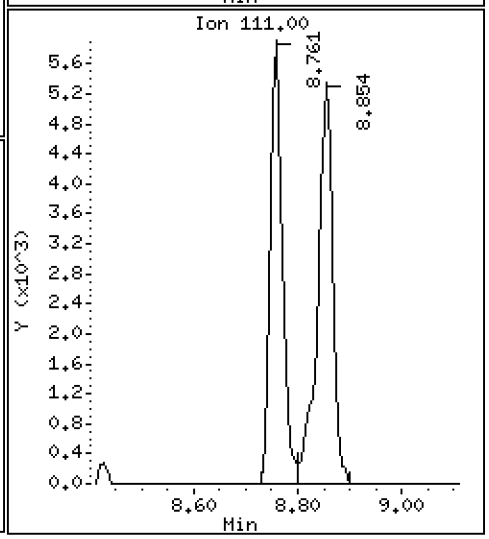












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

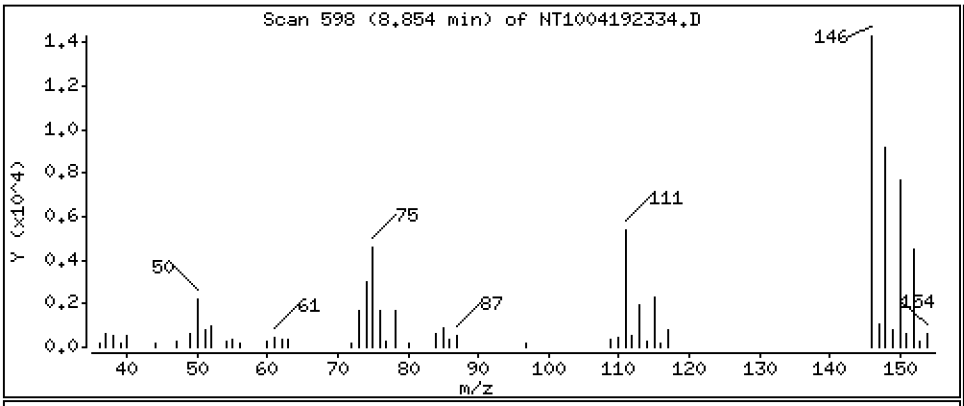
Operator: VTS

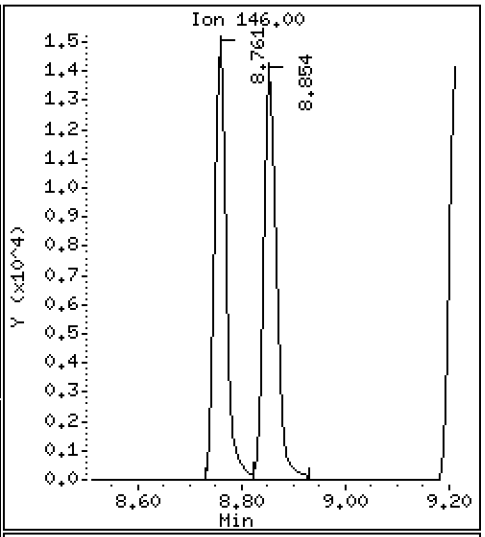
Column phase: ZB-5msi

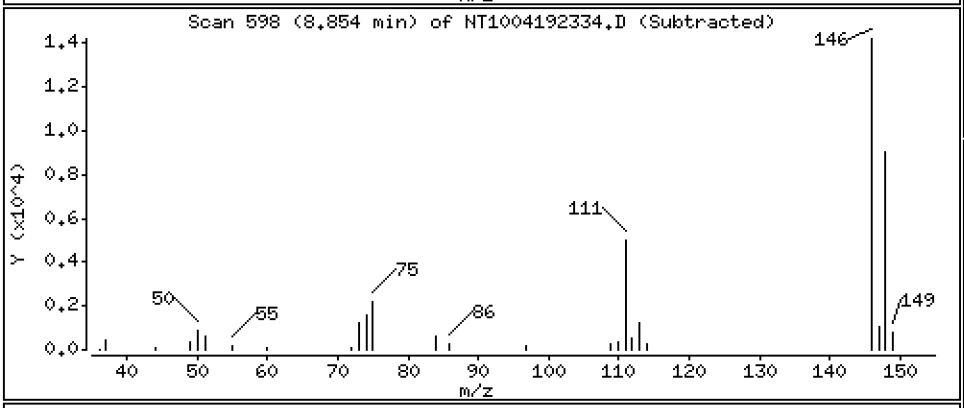
Column diameter: 0.25

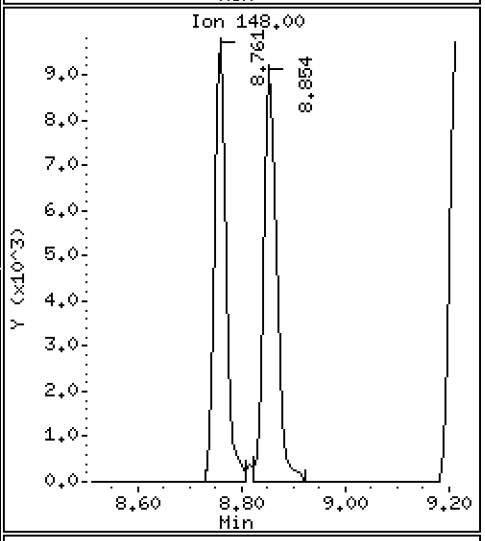
9 1,4-Dichlorobenzene

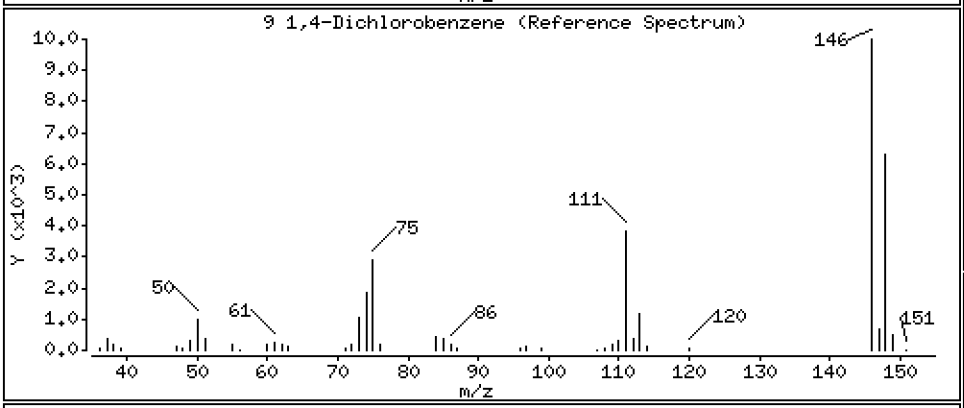
Concentration: 0.4888 ug/mL

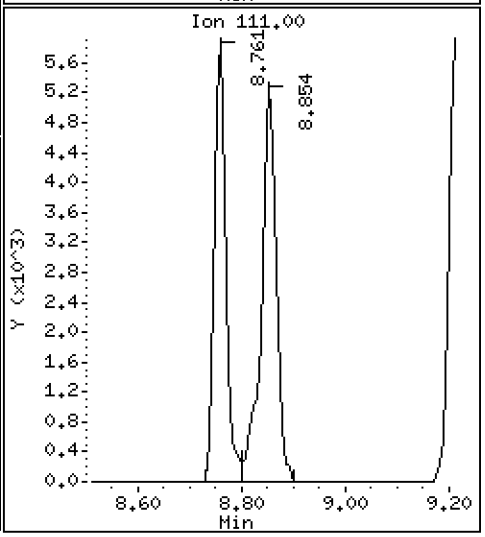


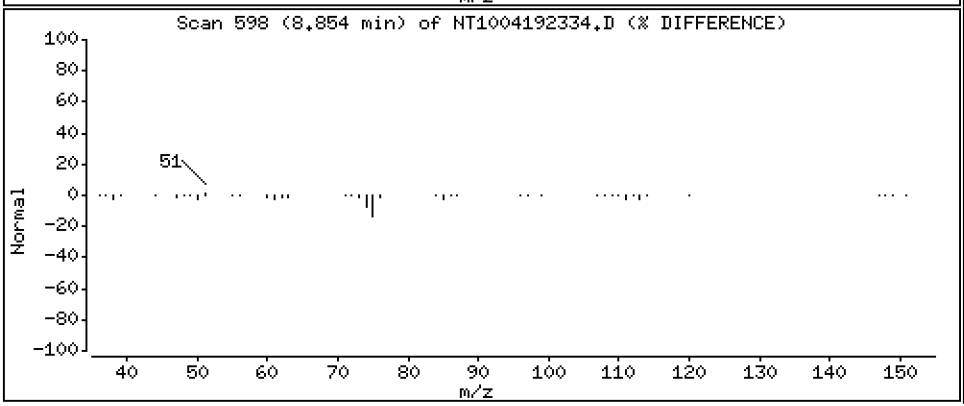












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

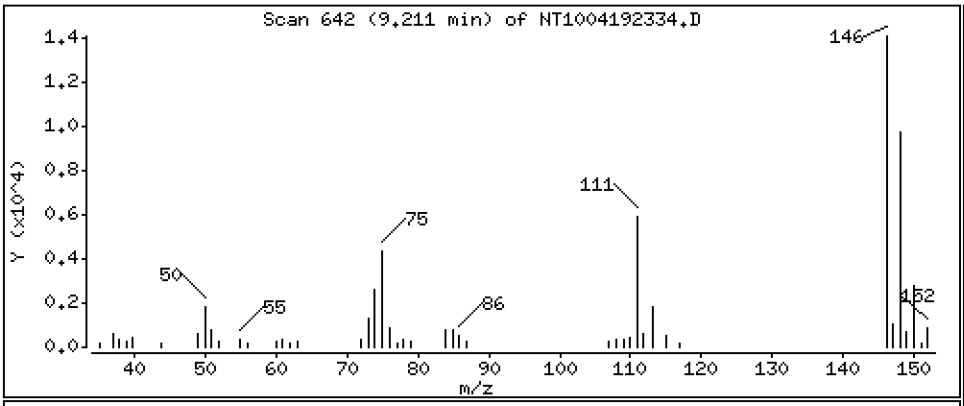
Operator: VTS

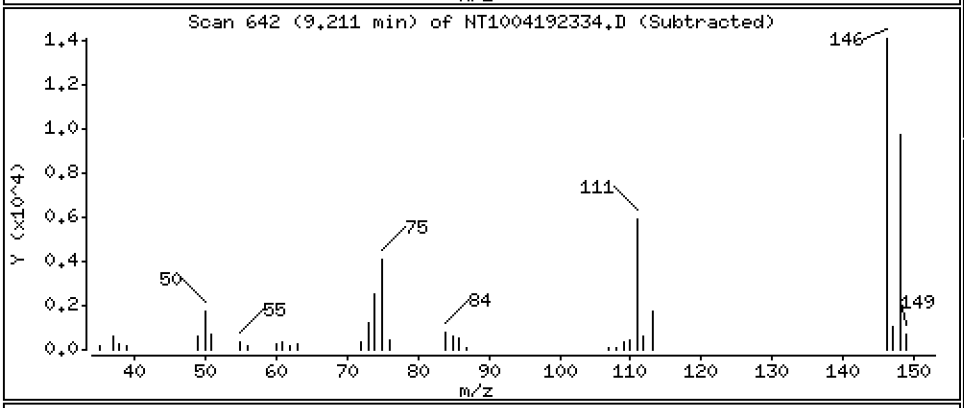
Column phase: ZB-5msi

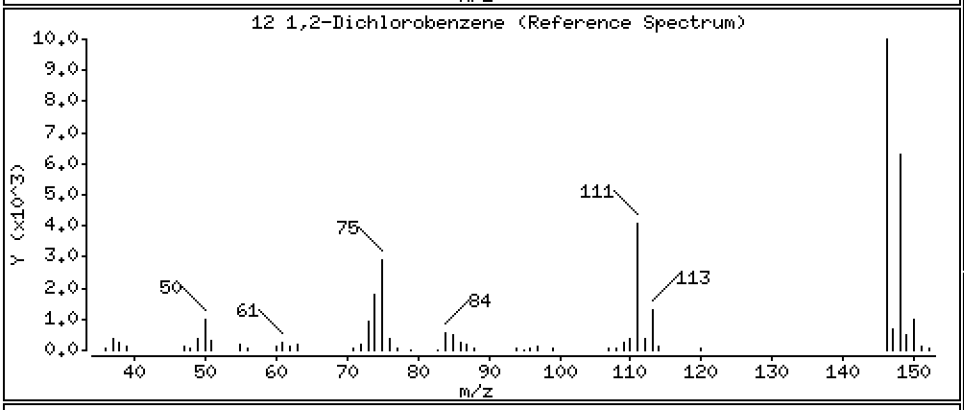
Column diameter: 0.25

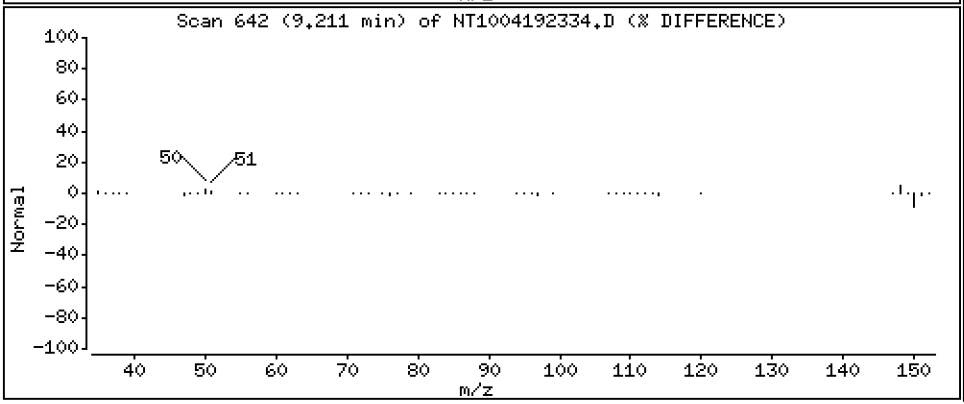
12 1,2-Dichlorobenzene

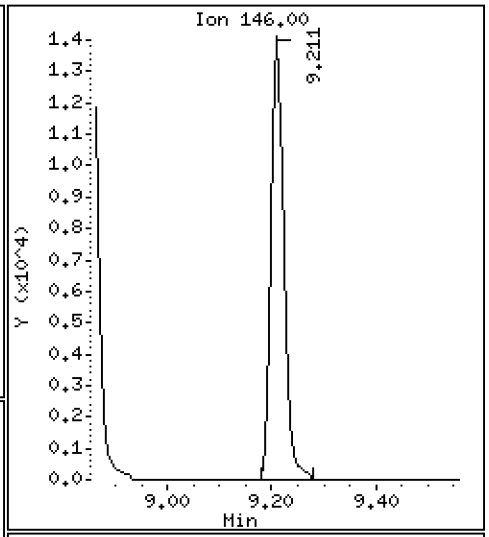
Concentration: 0.4833 ug/mL

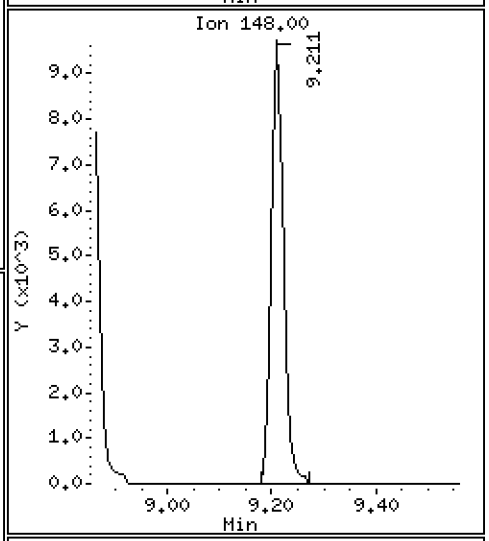


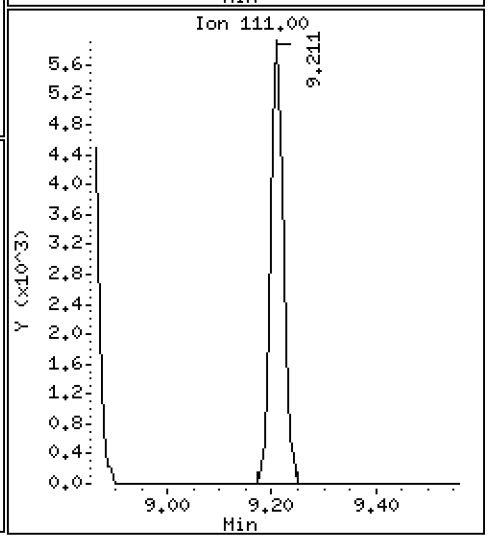












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

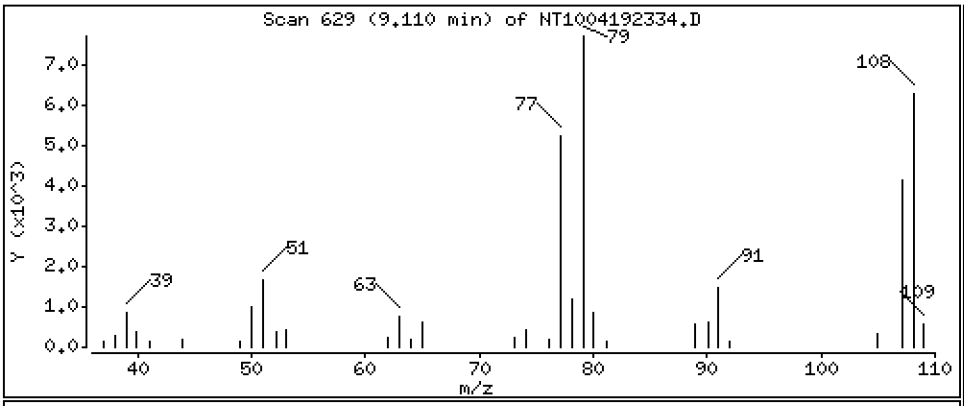
Operator: VTS

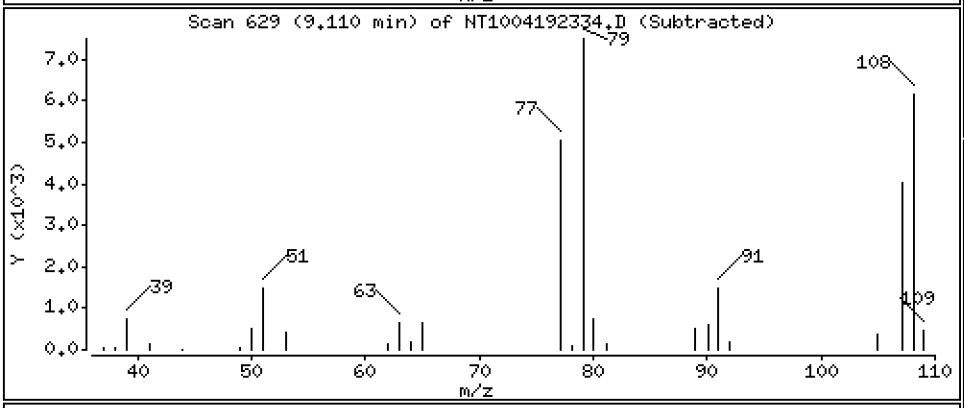
Column phase: ZB-5msi

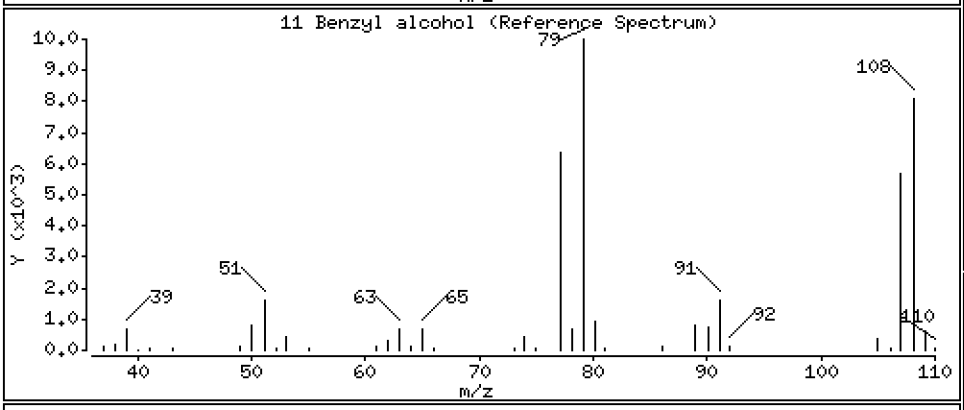
Column diameter: 0.25

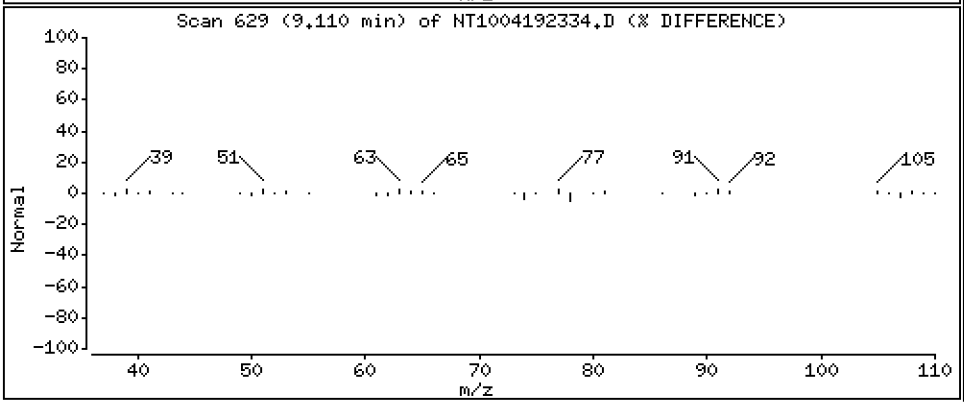
11 Benzyl alcohol

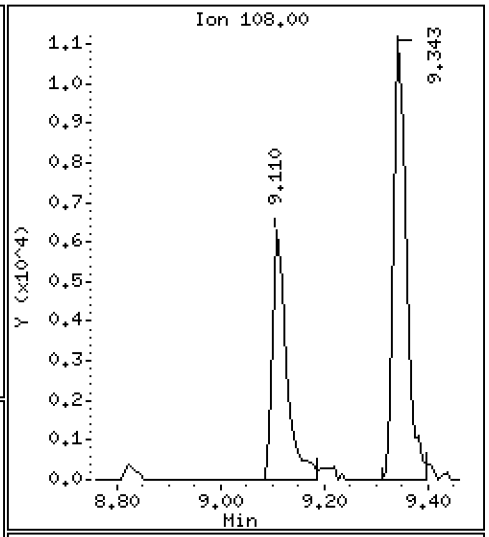
Concentration: 0.4418 ug/mL

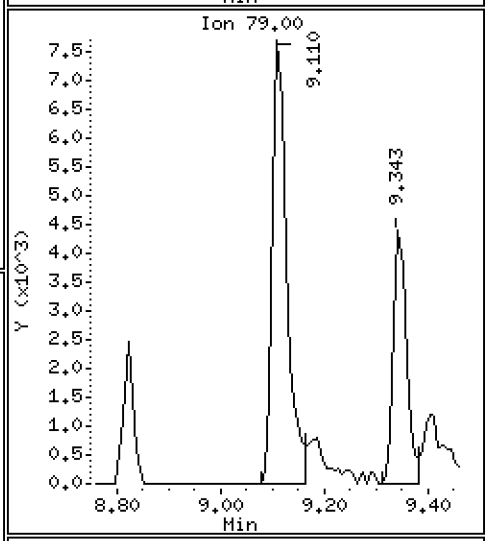


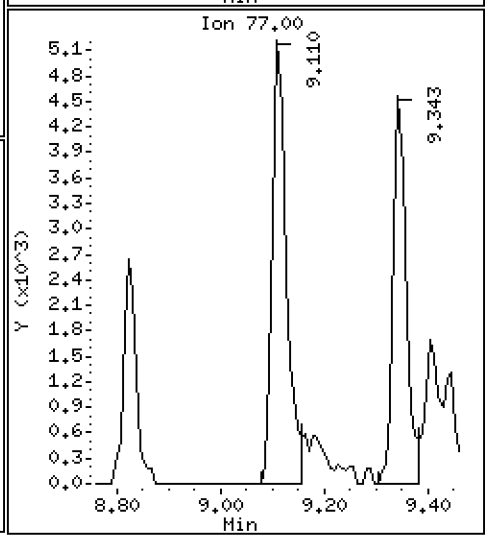












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

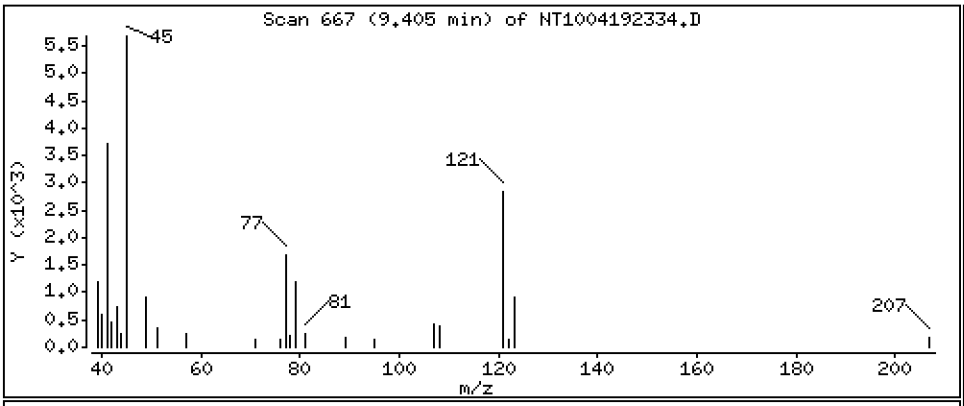
Operator: VTS

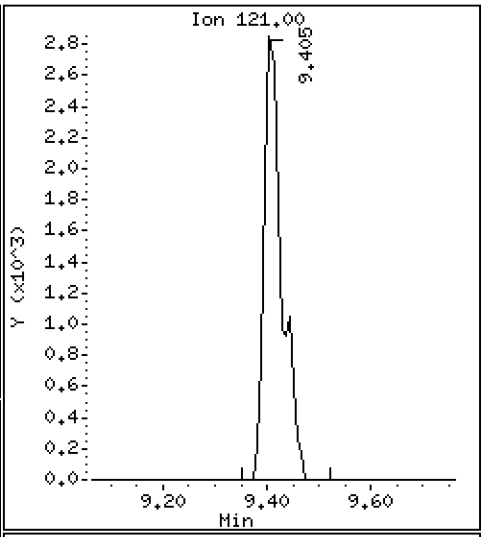
Column phase: ZB-5msi

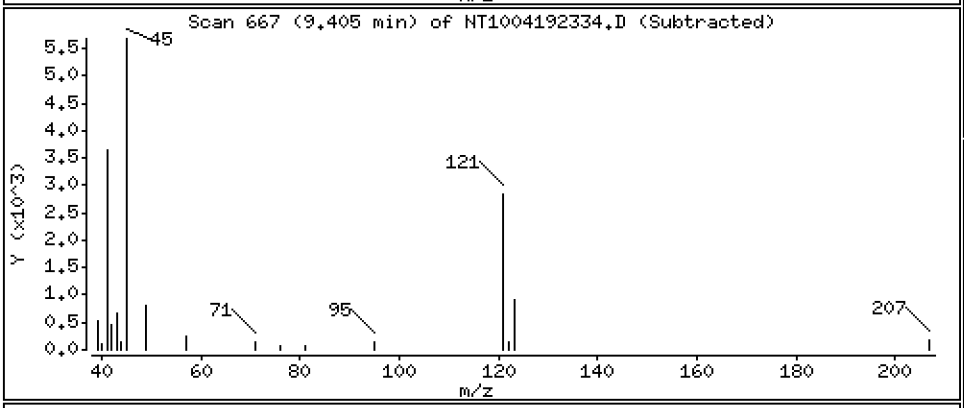
Column diameter: 0.25

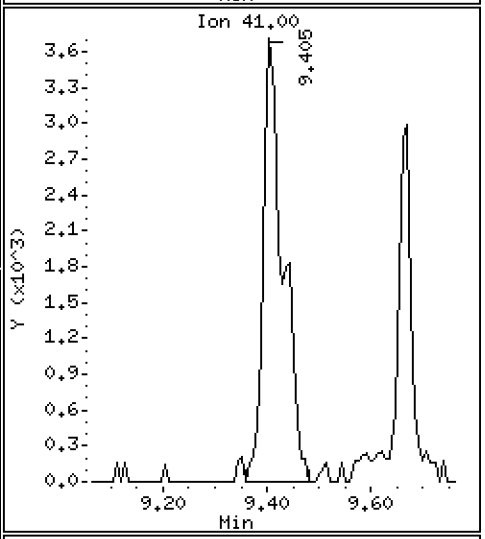
14 2,2'-oxybis(1-Chloropropane)

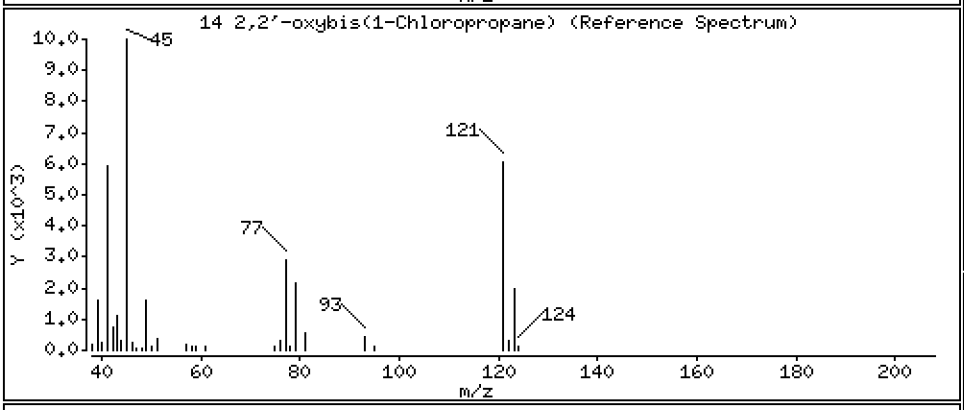
Concentration: 0.5230 ug/mL

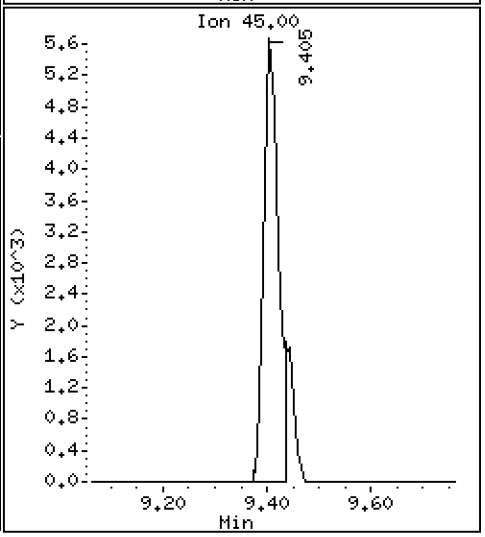


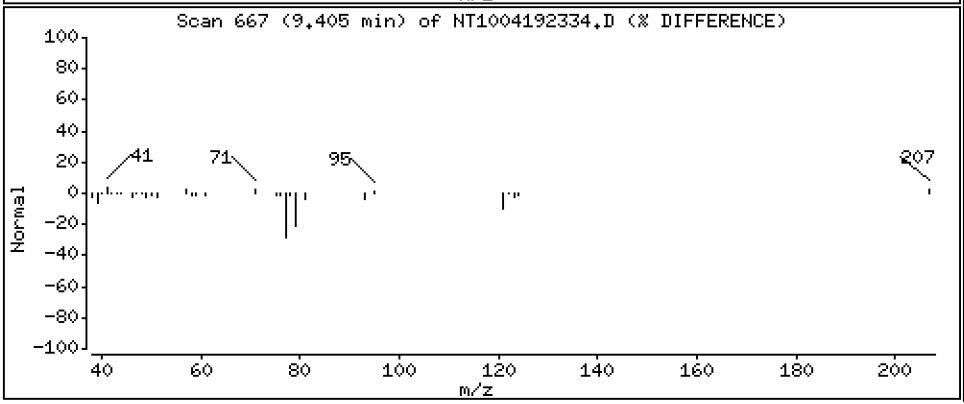












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

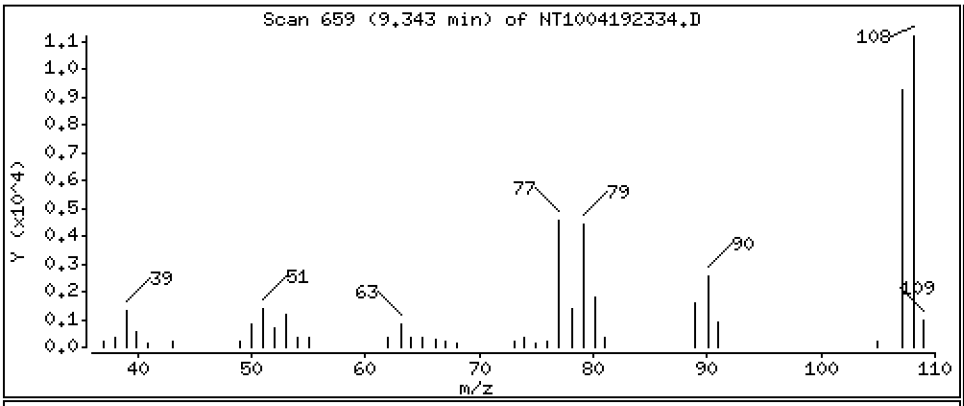
Operator: VTS

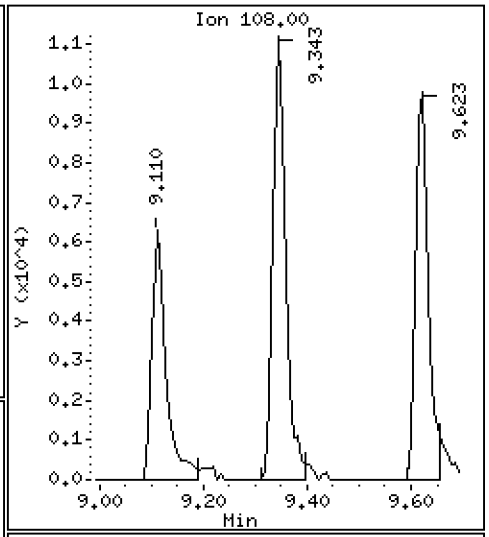
Column phase: ZB-5msi

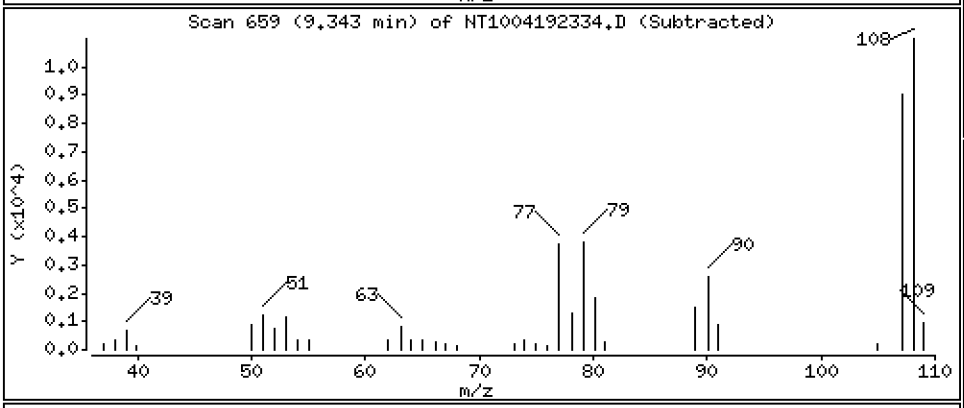
Column diameter: 0.25

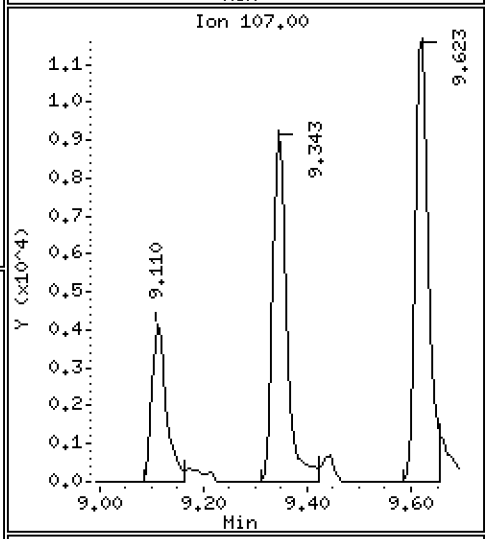
13 2-Methylphenol

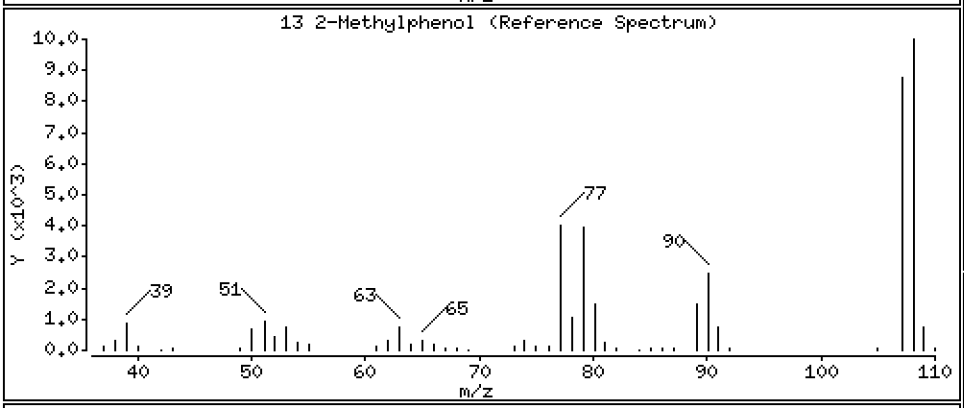
Concentration: 0.4549 ug/mL

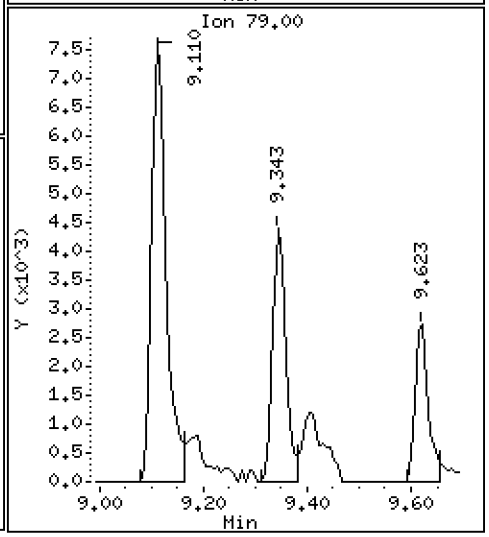


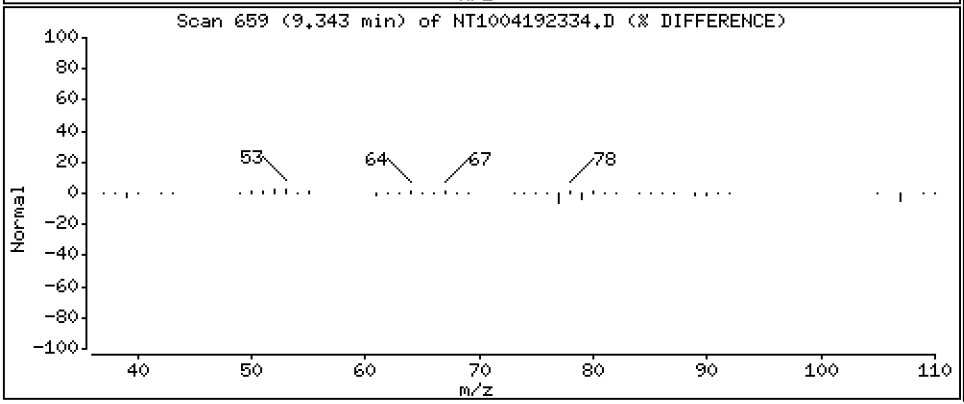












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

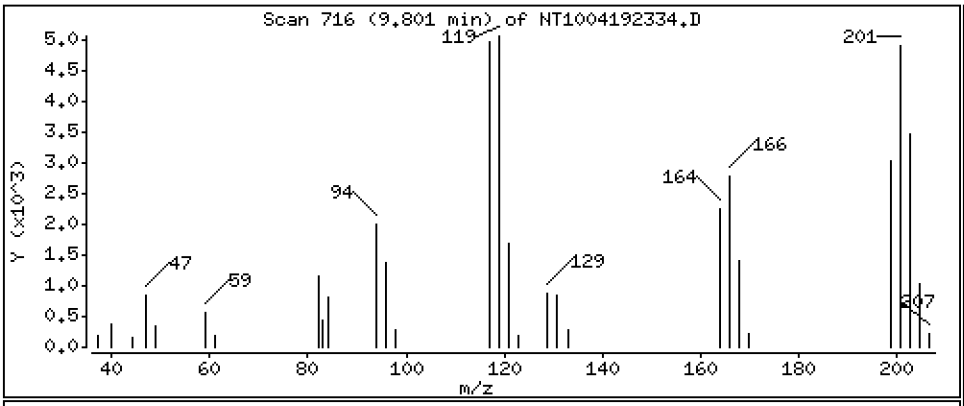
Operator: VTS

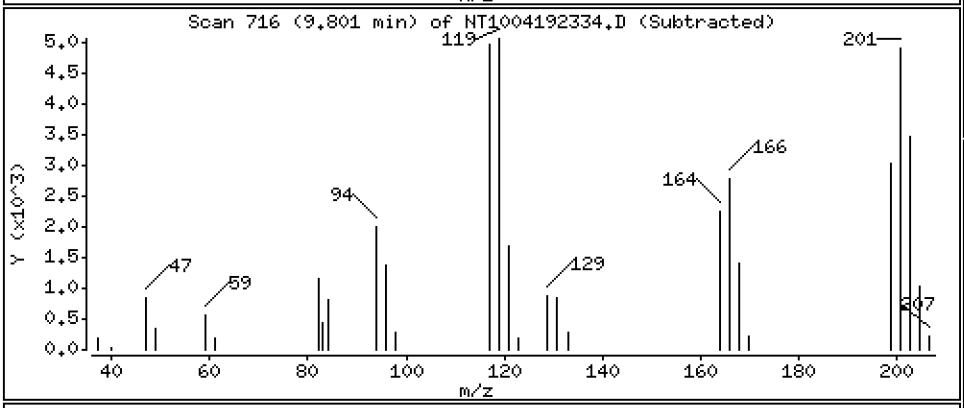
Column phase: ZB-5msi

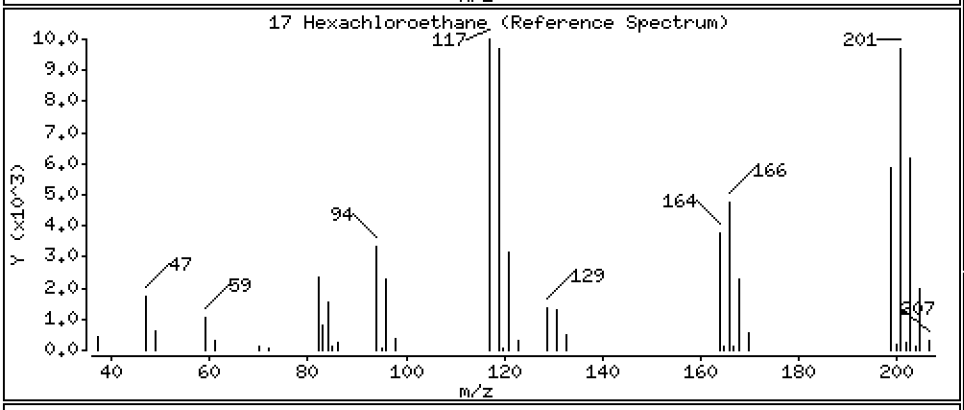
Column diameter: 0.25

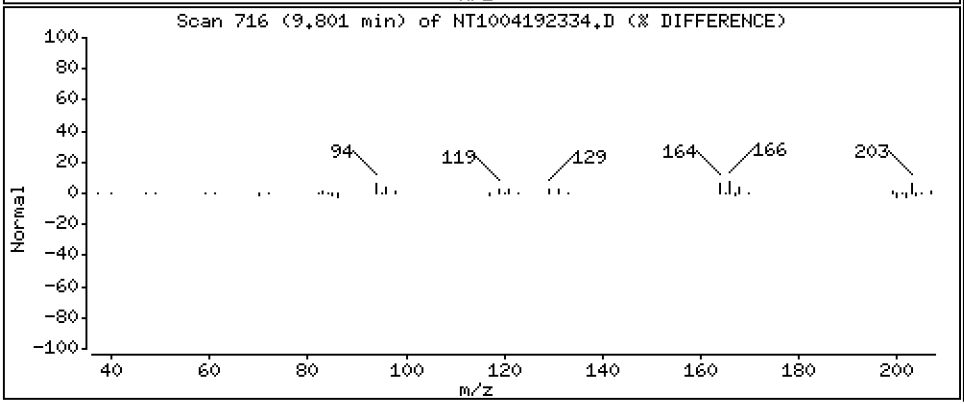
17 Hexachloroethane

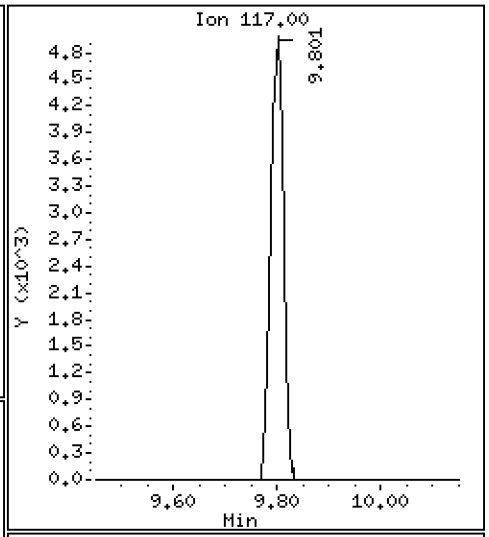
Concentration: 0.4073 ug/mL

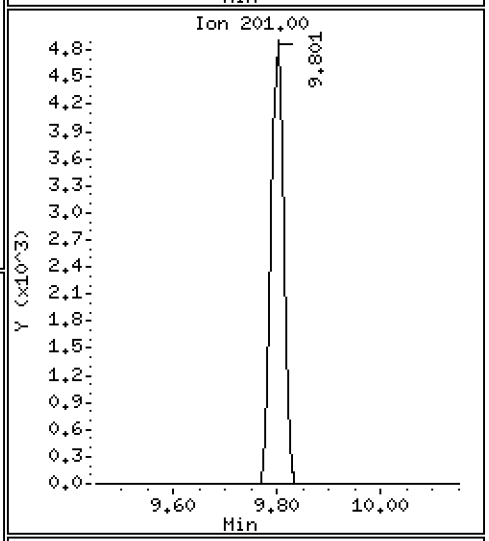


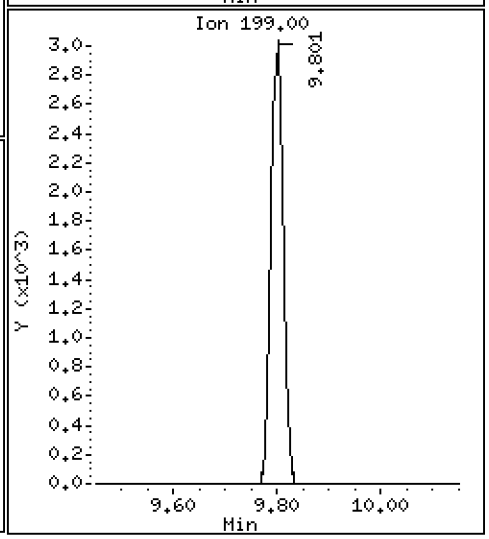












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192334.D

Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

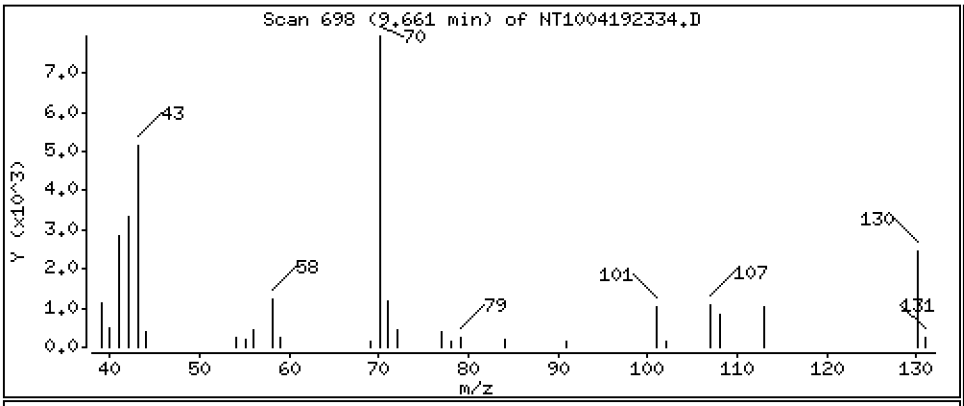
Operator: VTS

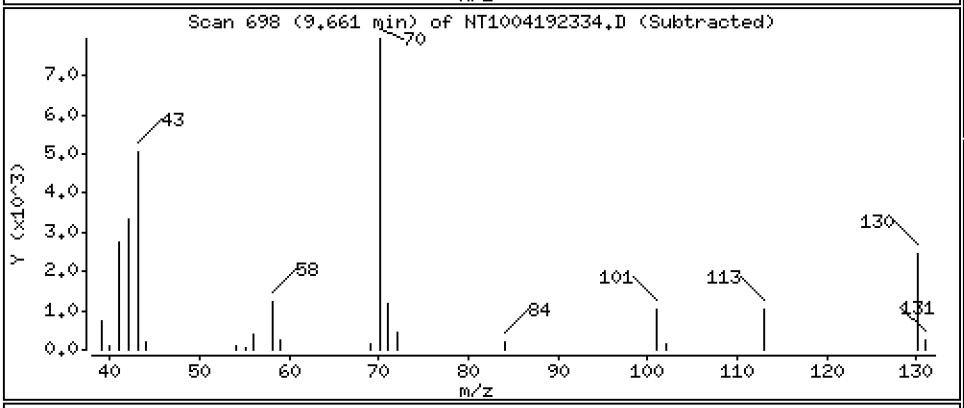
Column phase: ZB-5msi

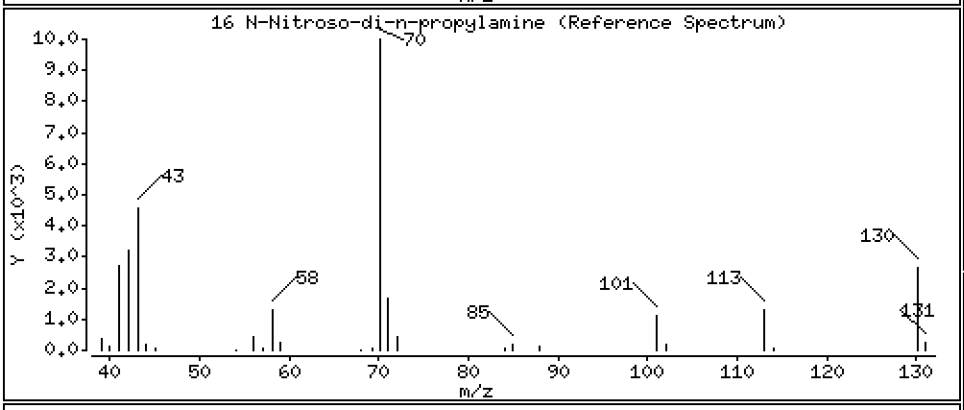
Column diameter: 0.25

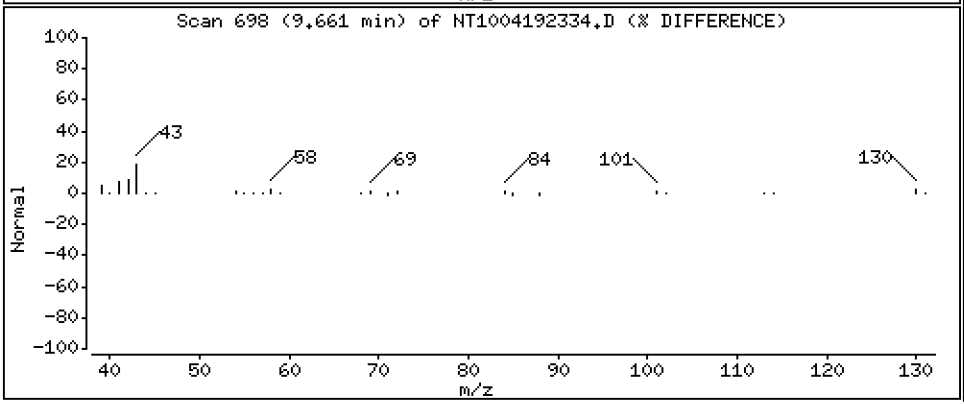
16 N-Nitroso-di-n-propylamine

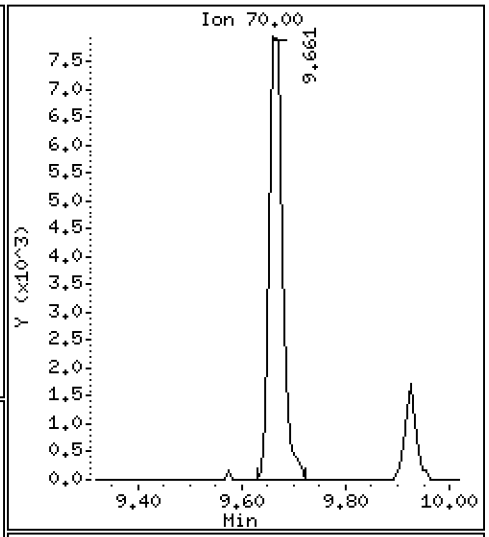
Concentration: 0.4241 ug/mL

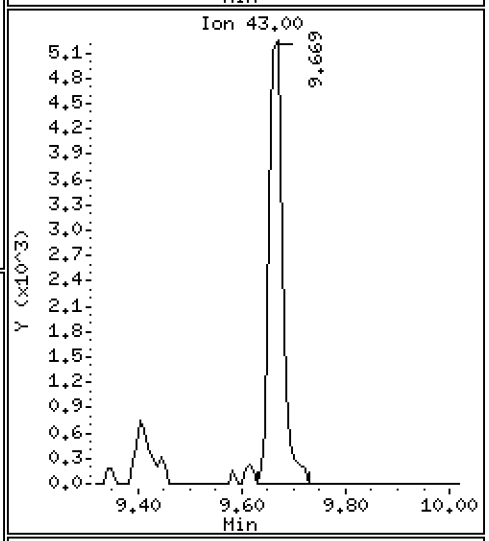


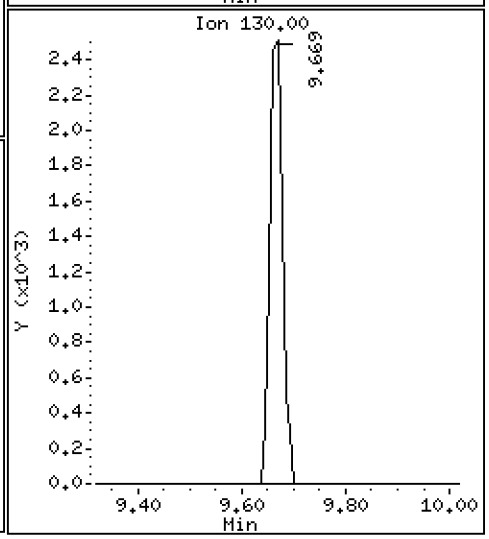












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

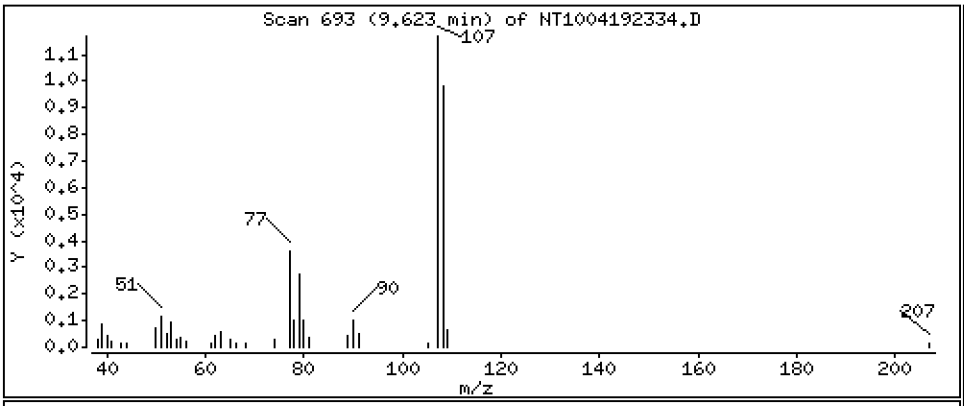
Operator: VTS

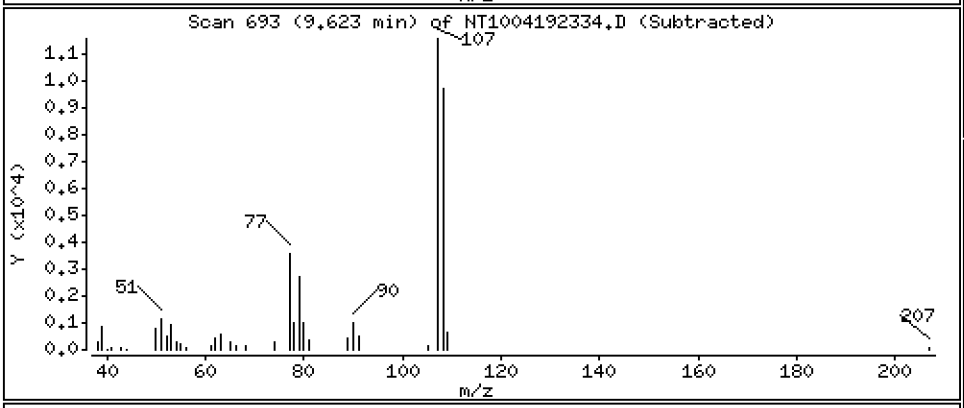
Column phase: ZB-5msi

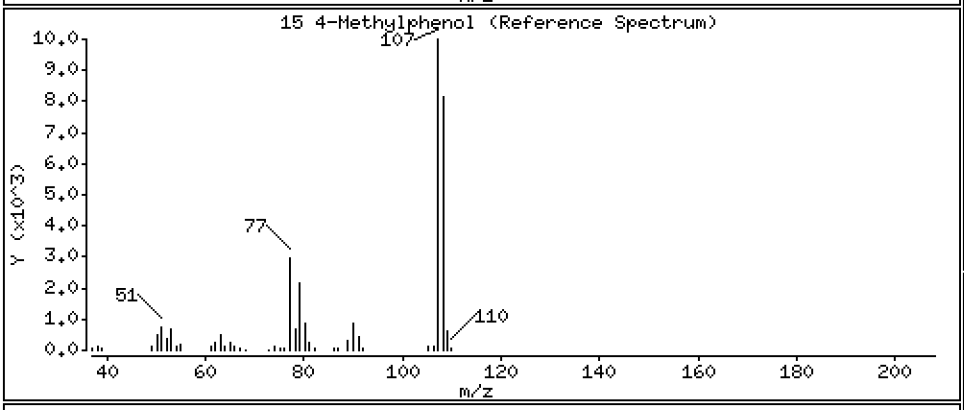
Column diameter: 0.25

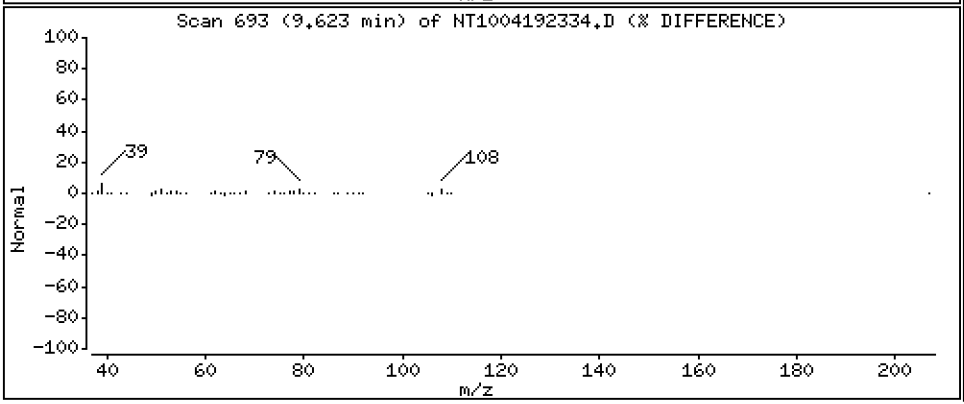
15 4-Methylphenol

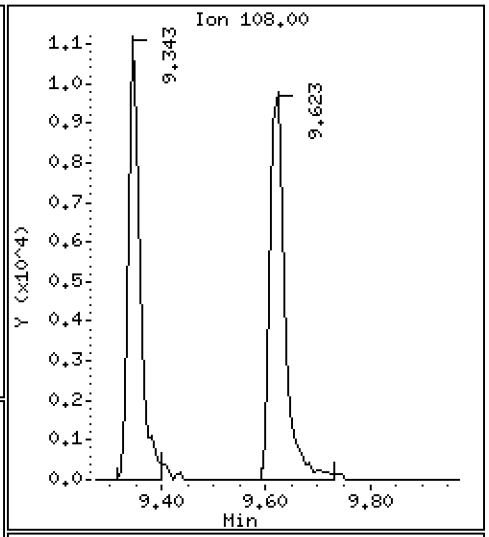
Concentration: 0.4480 ug/mL

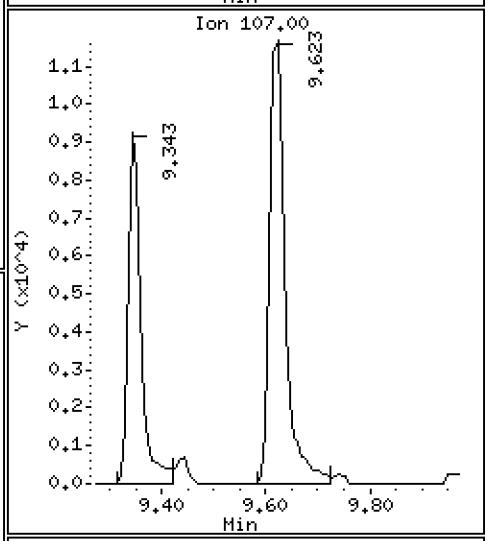


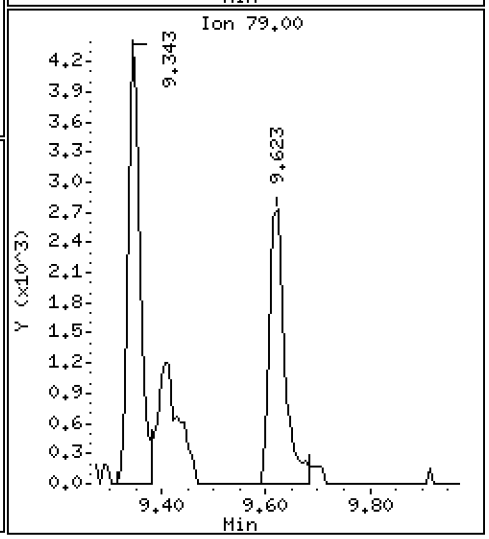












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

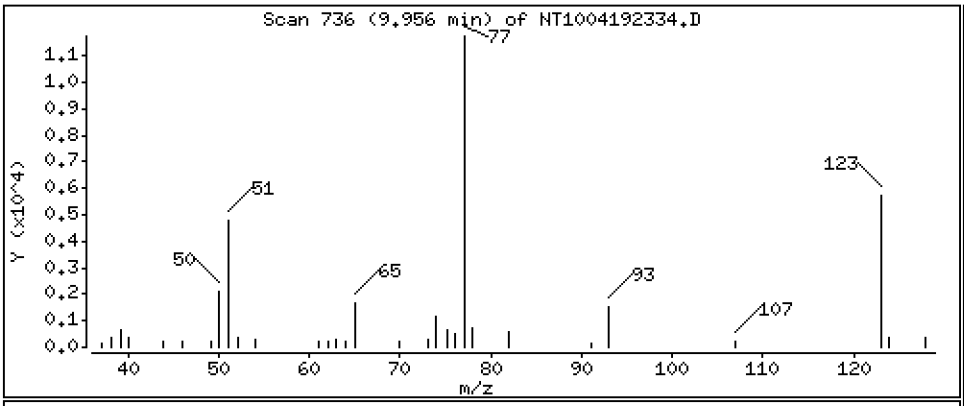
Operator: VTS

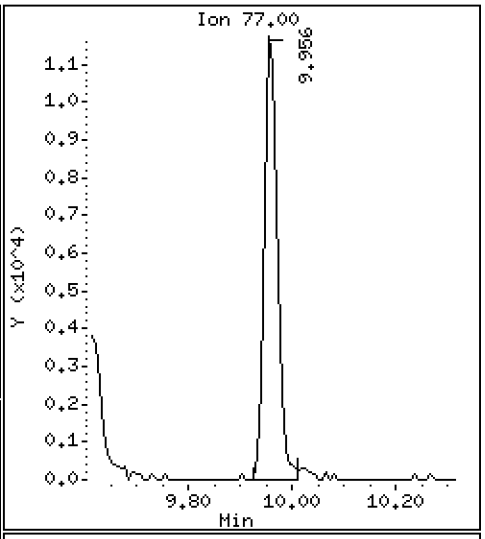
Column phase: ZB-5msi

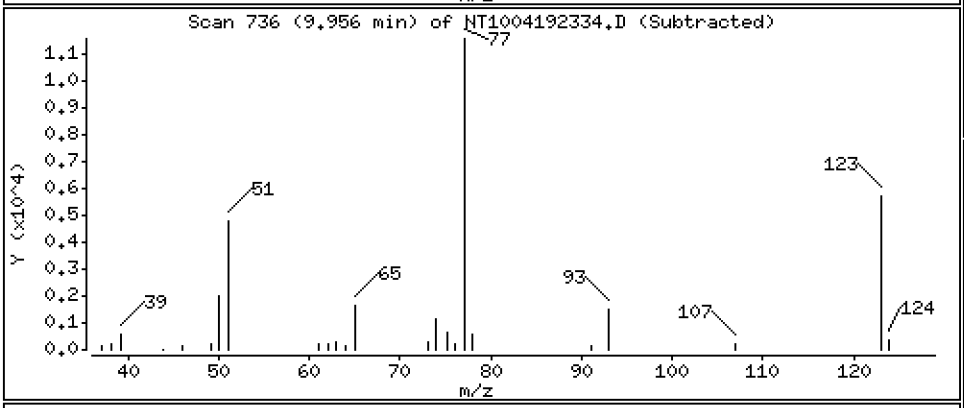
Column diameter: 0.25

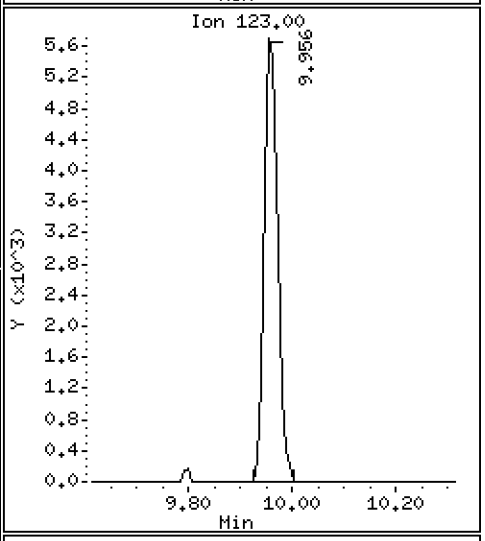
19 Nitrobenzene

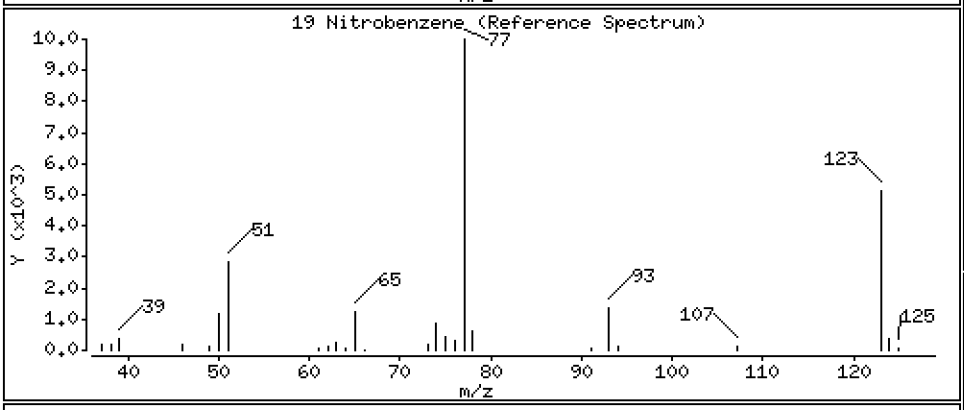
Concentration: 0.4291 ug/mL

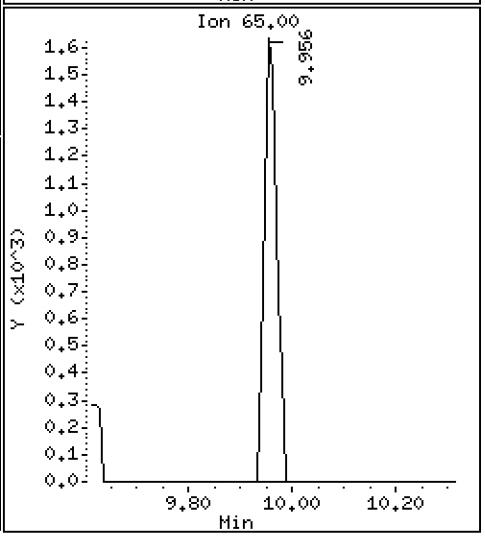


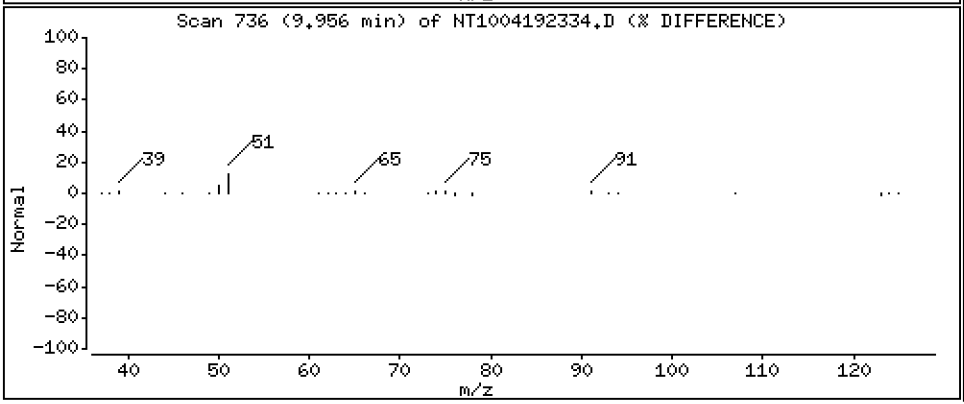












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

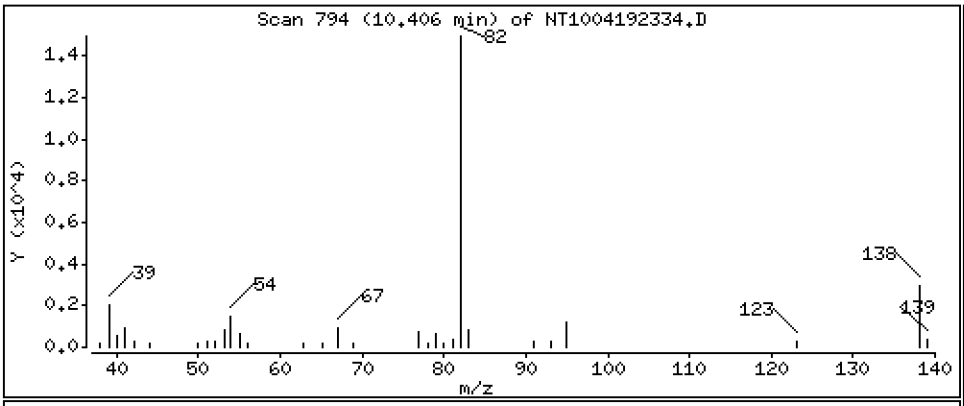
Operator: VTS

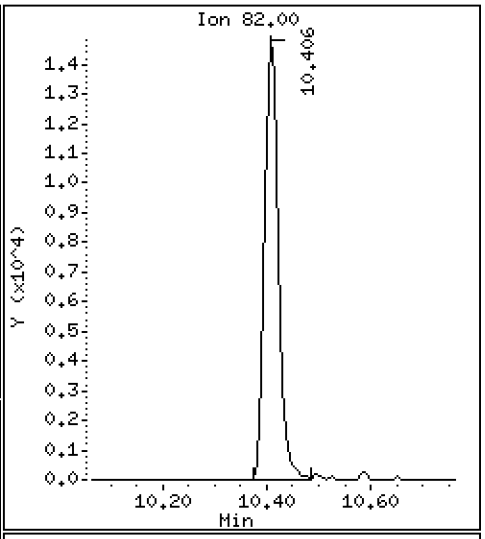
Column phase: ZB-5msi

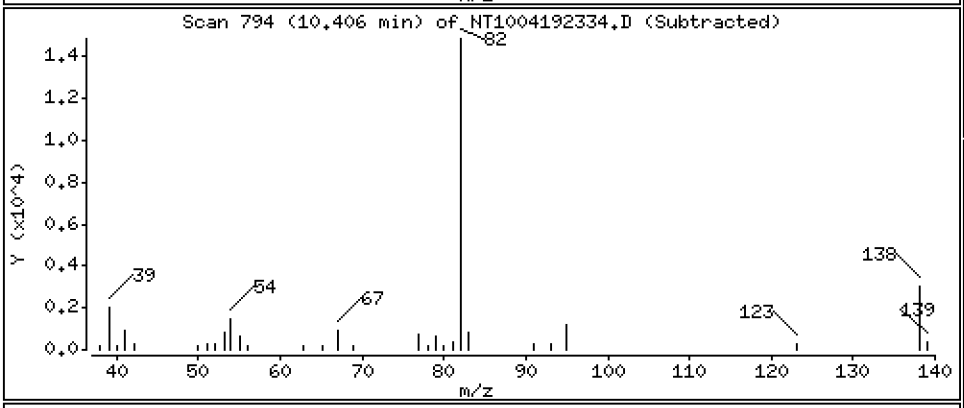
Column diameter: 0.25

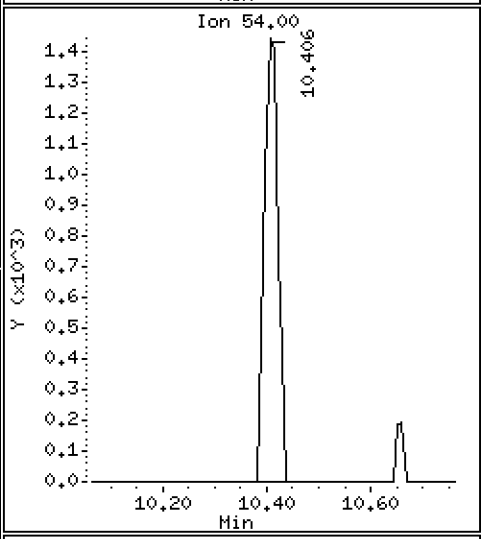
20 Isophorone

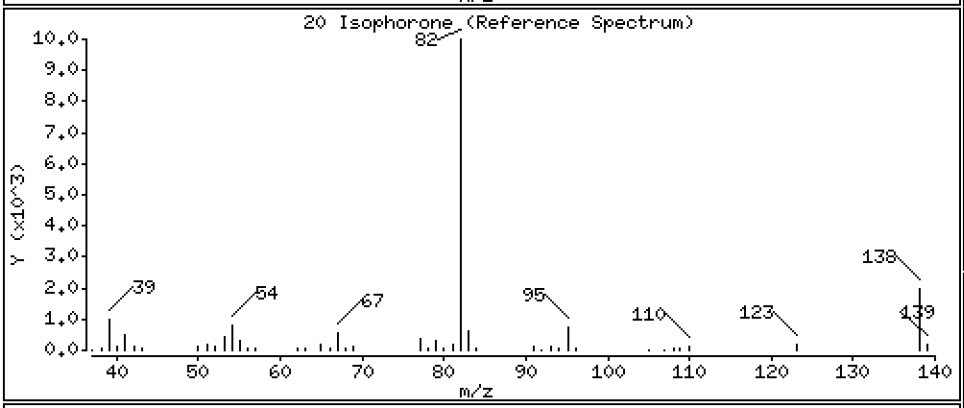
Concentration: 0.4417 ug/mL

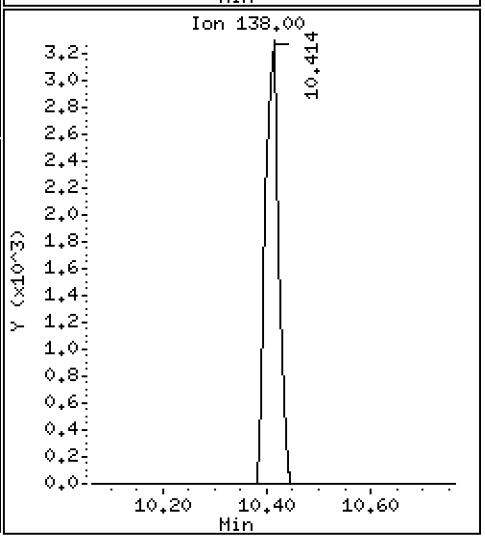


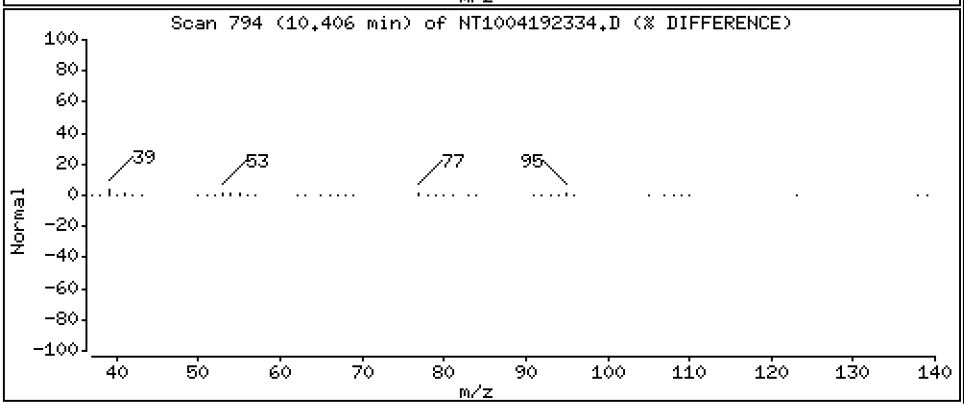












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

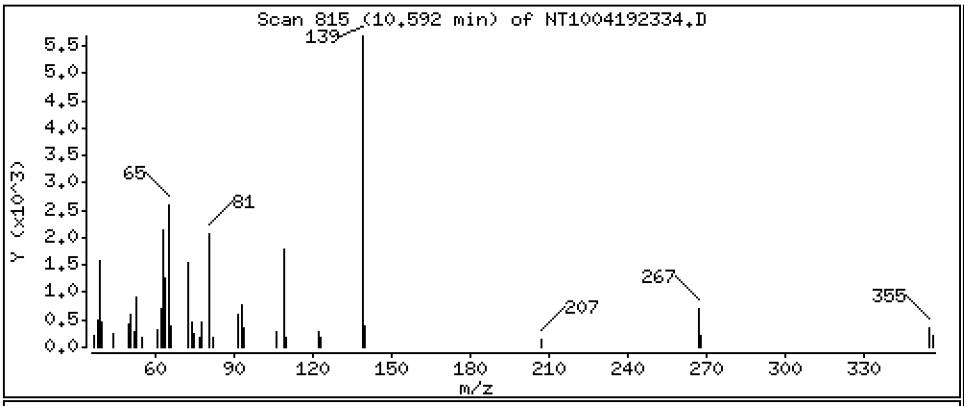
Operator: VTS

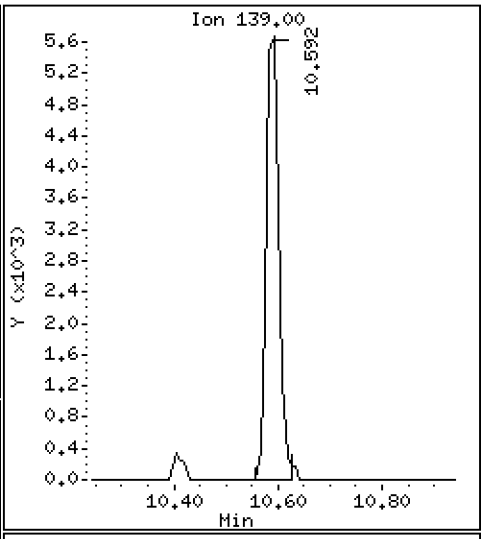
Column phase: ZB-5msi

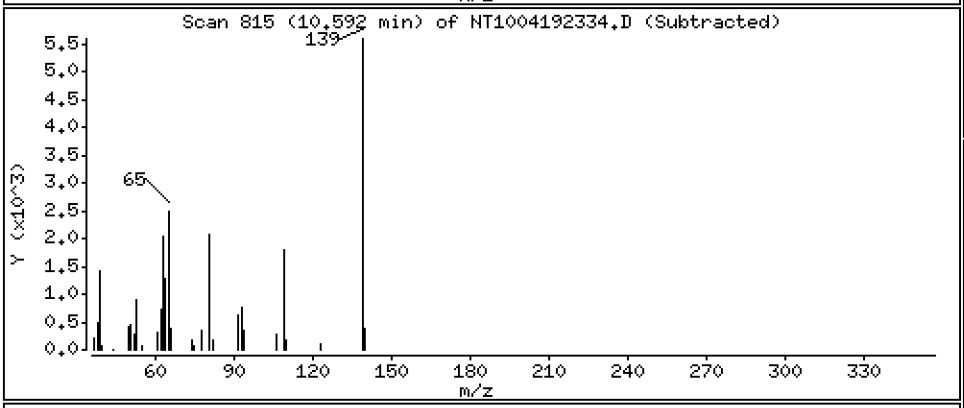
Column diameter: 0.25

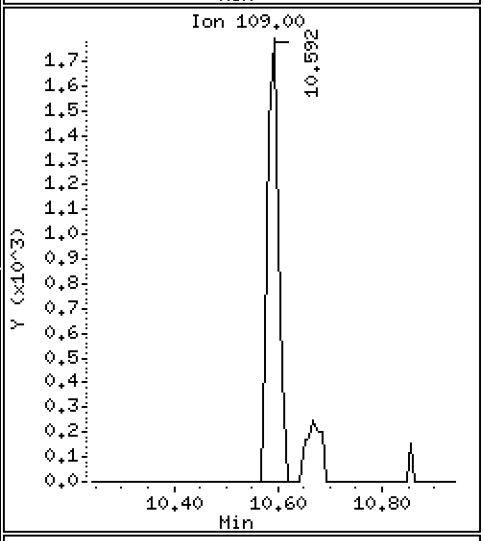
21 2-Nitrophenol

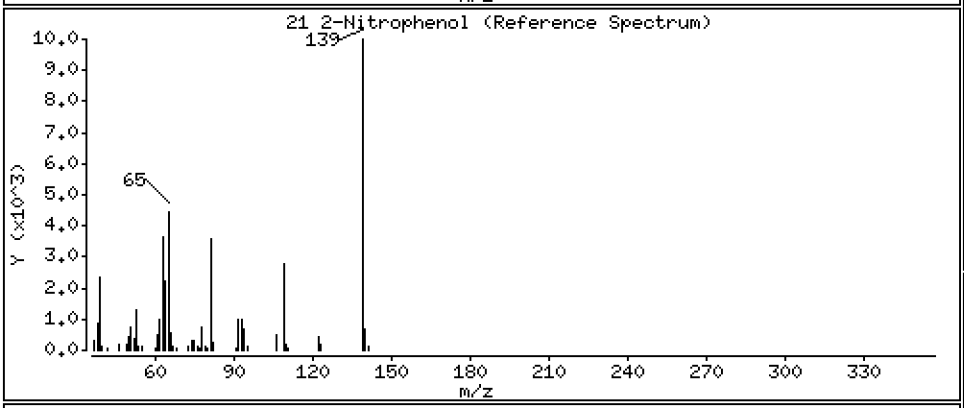
Concentration: 0.4259 ug/mL

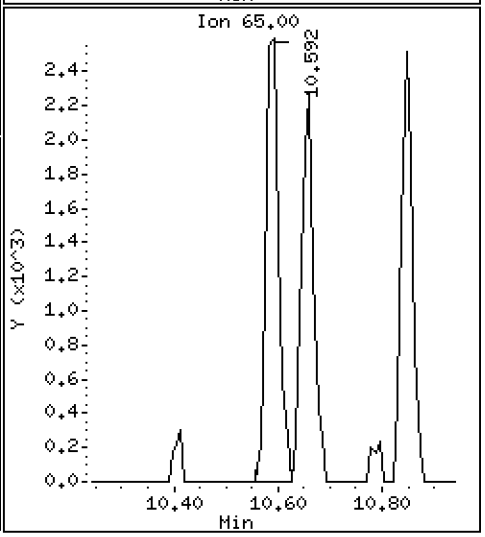


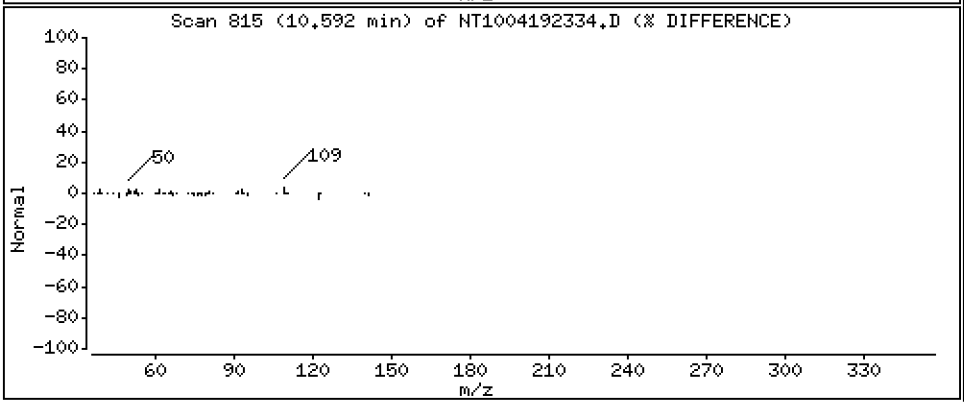












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

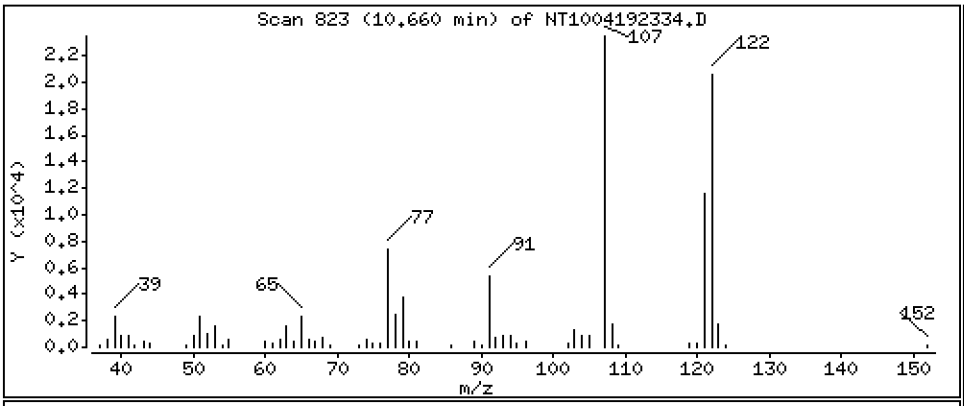
Operator: VTS

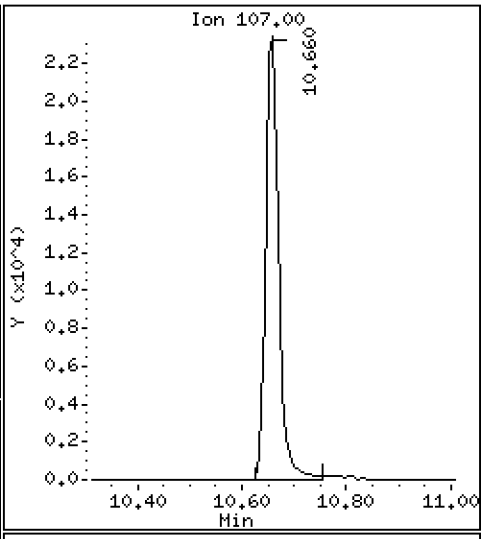
Column phase: ZB-5msi

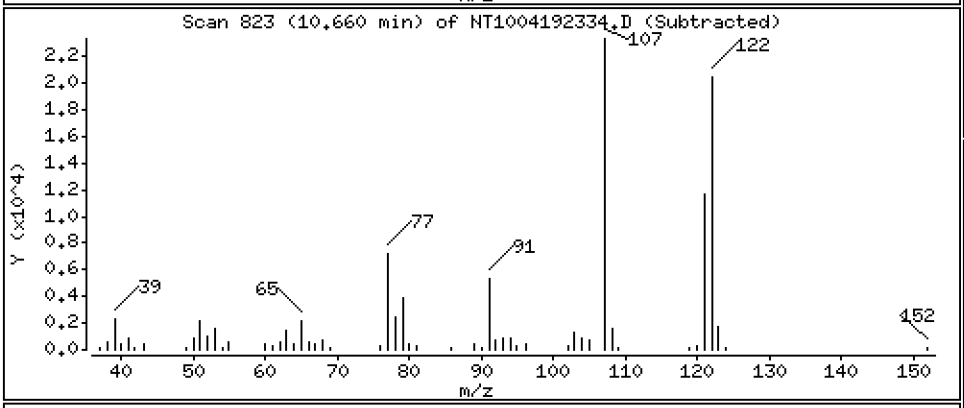
Column diameter: 0.25

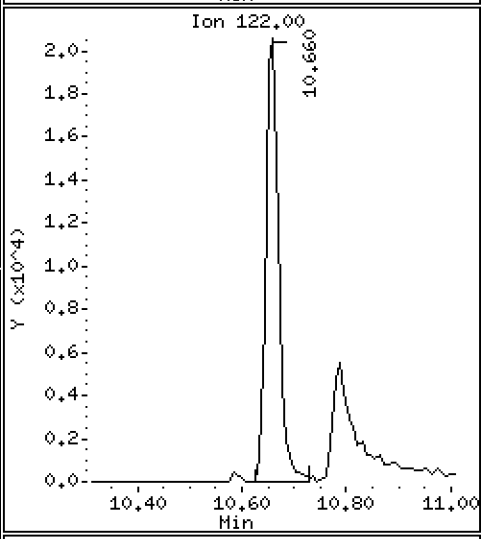
22 2,4-Dimethylphenol

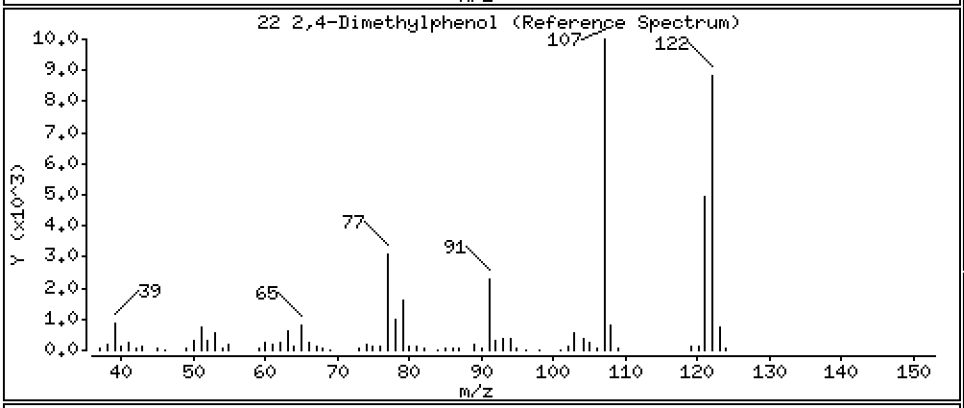
Concentration: 0.9542 ug/mL

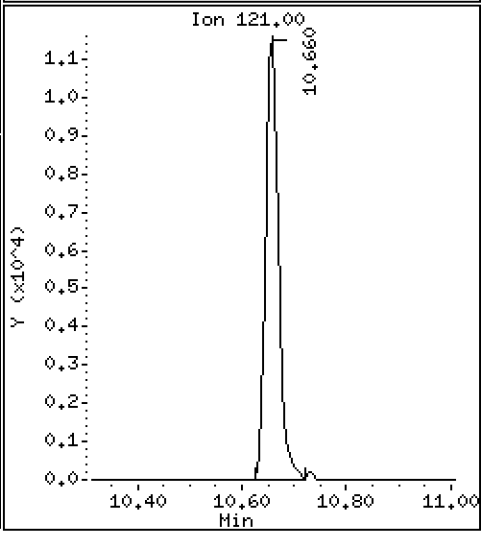


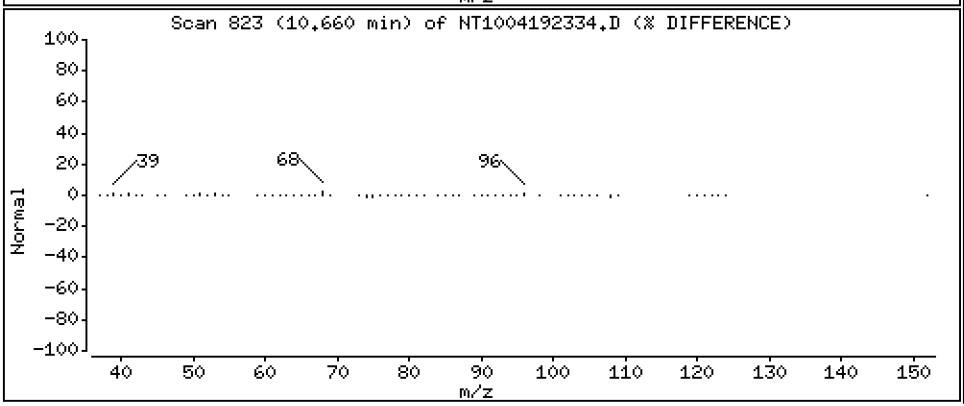












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

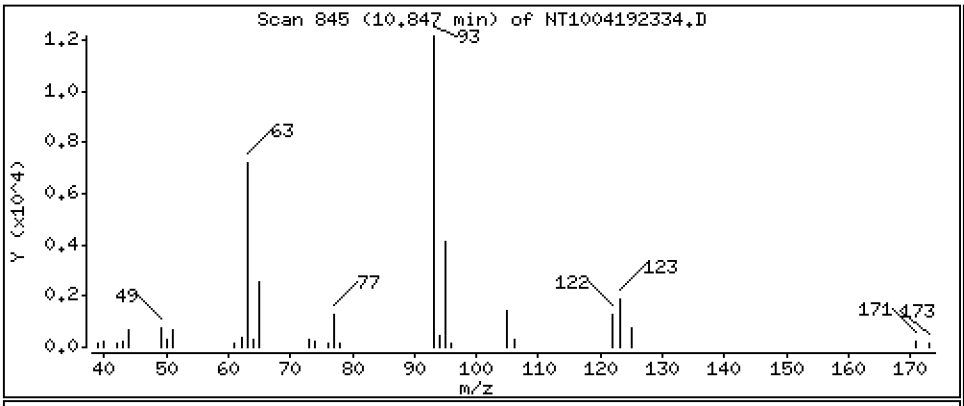
Operator: VTS

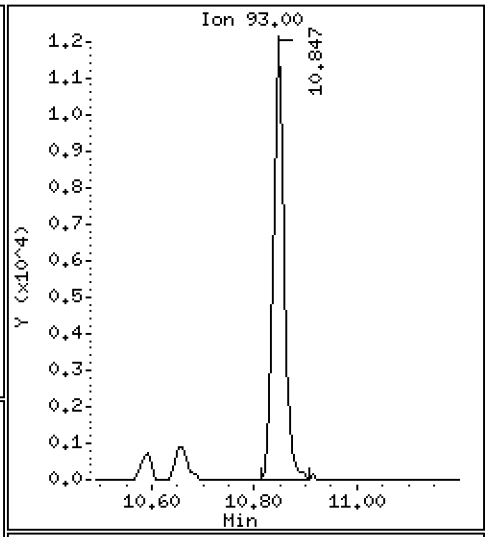
Column phase: ZB-5msi

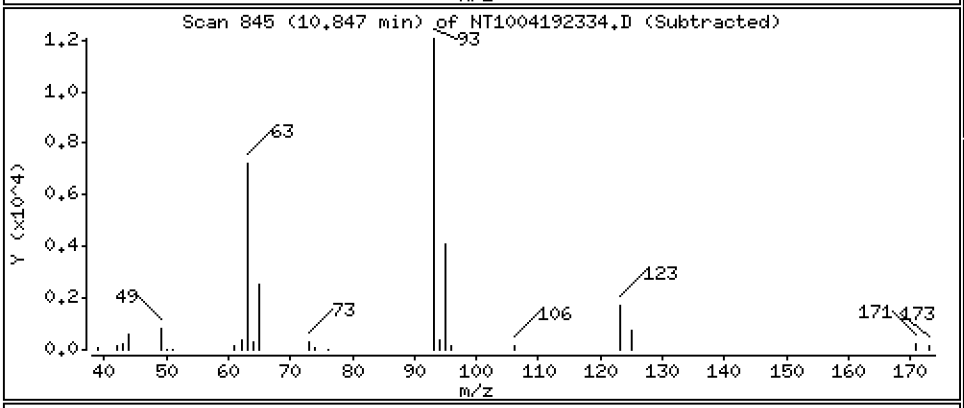
Column diameter: 0.25

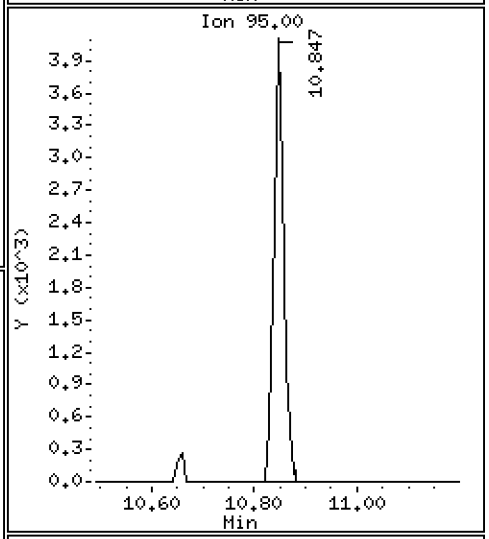
23 Bis(2-Chloroethoxy)methane

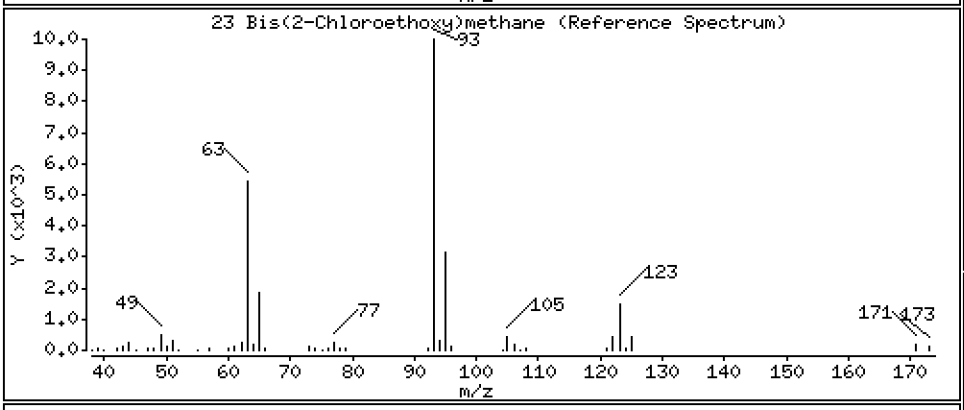
Concentration: 0.4607 ug/mL

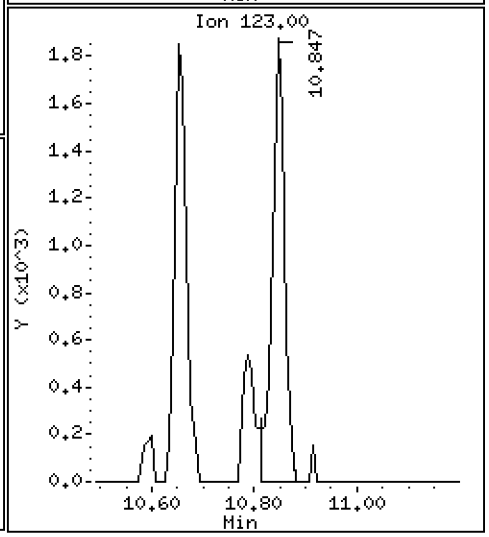


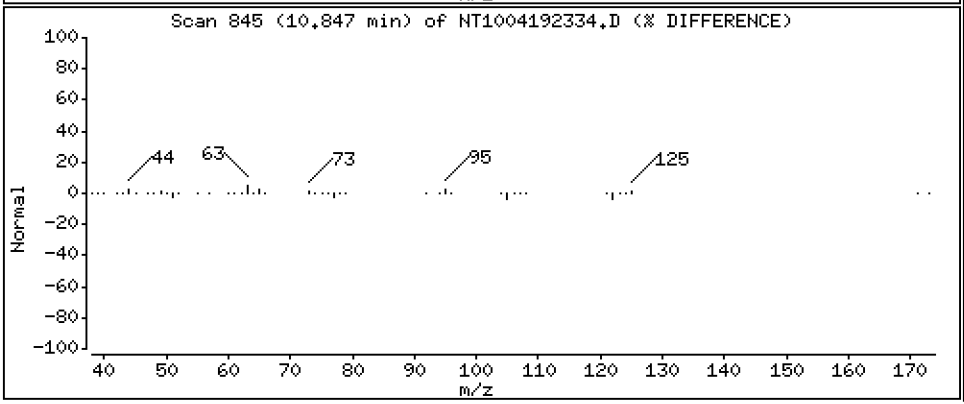












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192334.D

Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

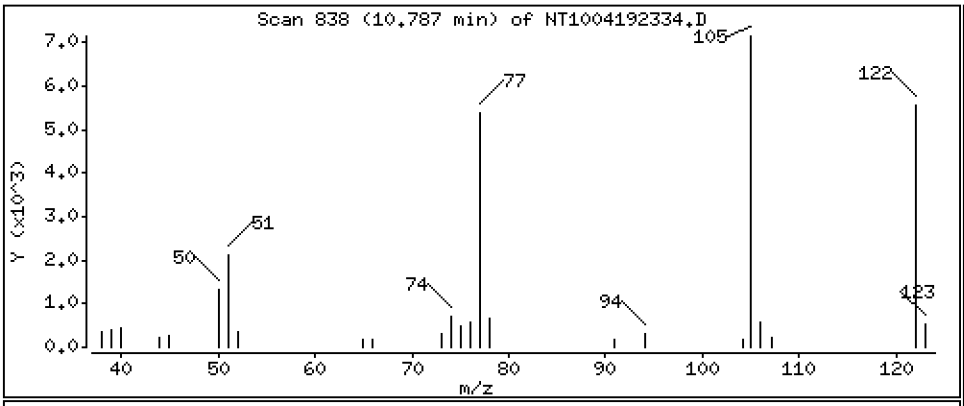
Operator: VTS

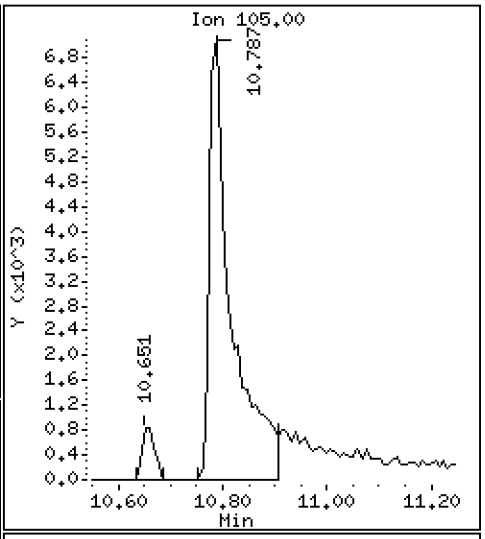
Column phase: ZB-5msi

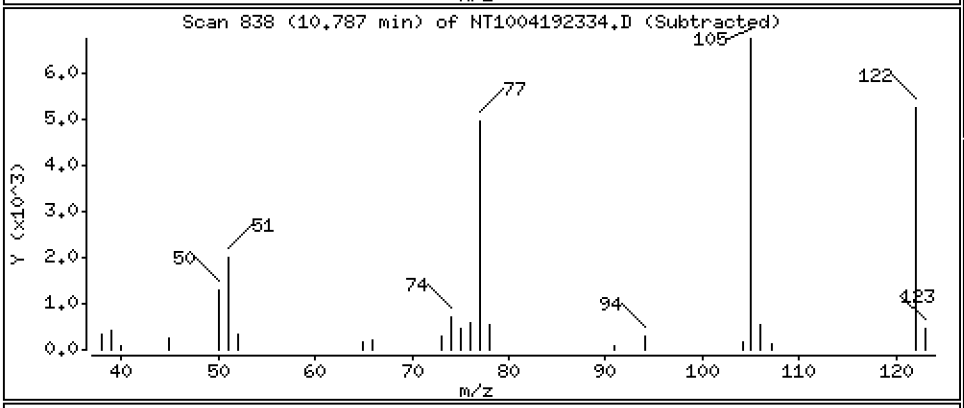
Column diameter: 0.25

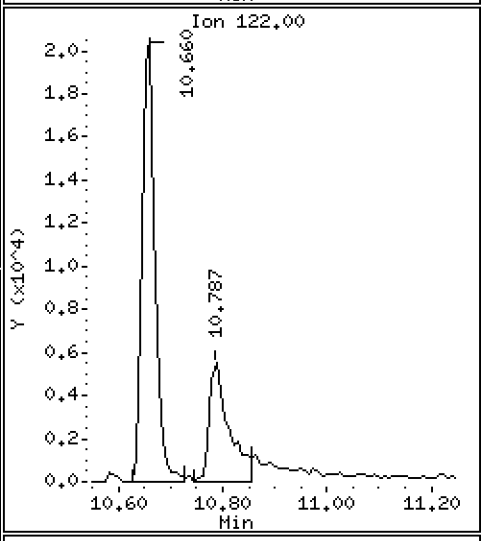
24 Benzoic acid

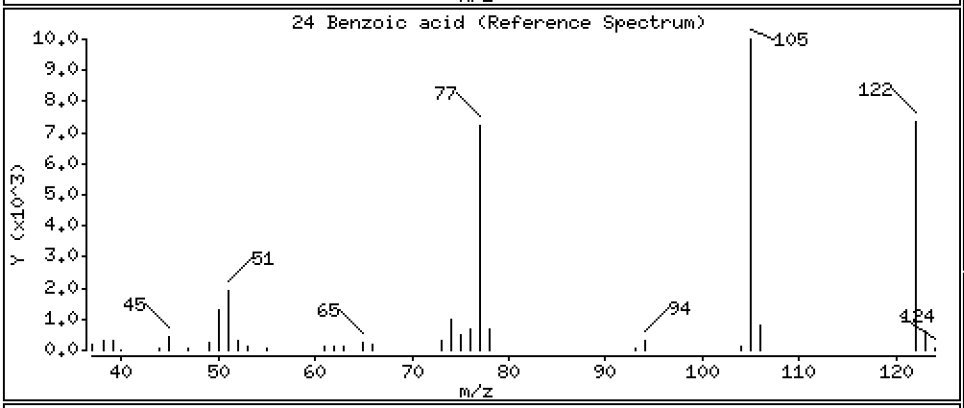
Concentration: 0.8898 ug/mL

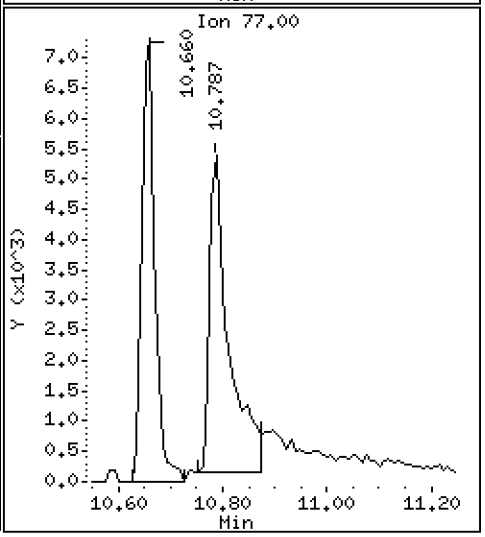


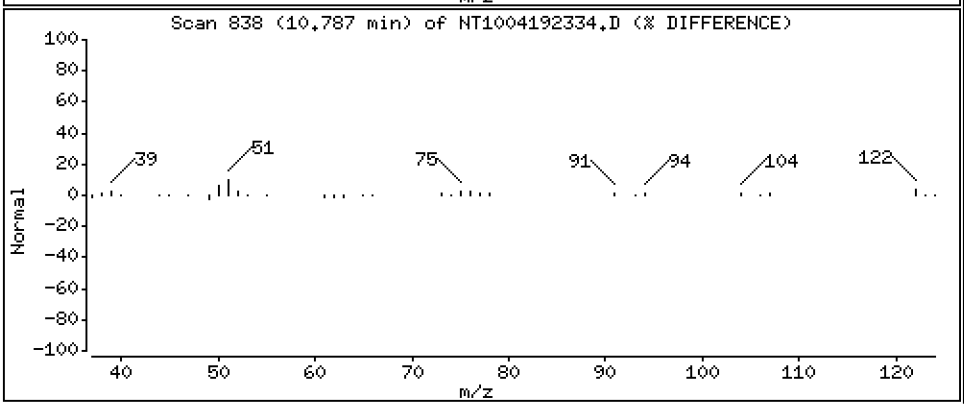












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

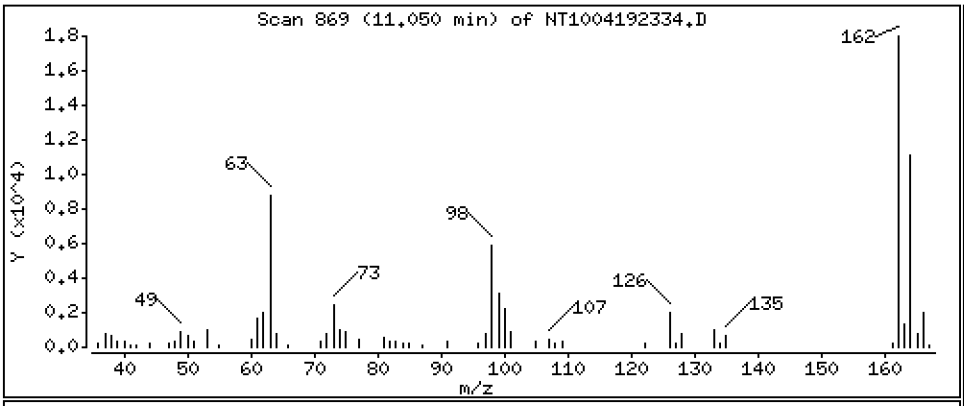
Operator: VTS

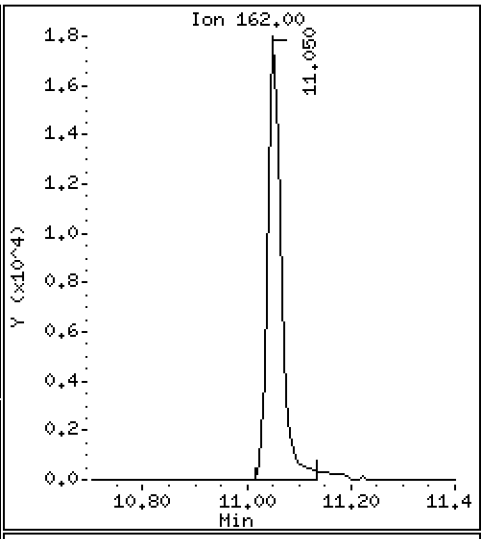
Column phase: ZB-5msi

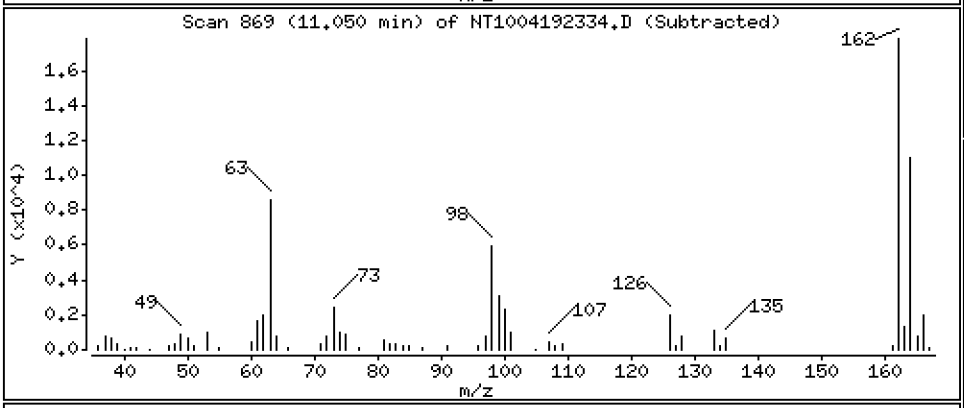
Column diameter: 0.25

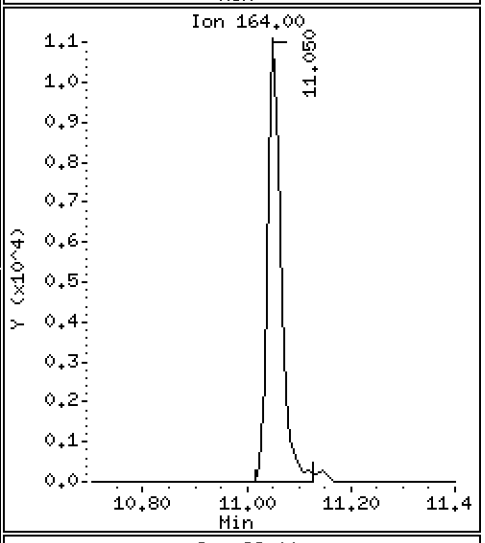
25 2,4-Dichlorophenol

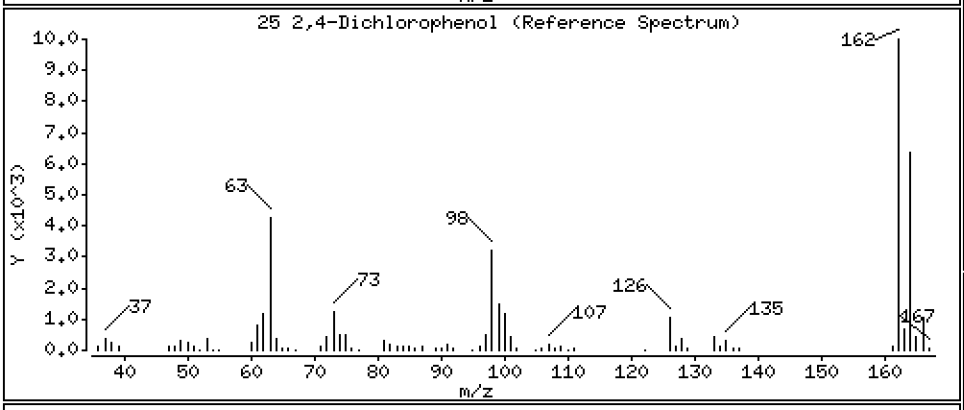
Concentration: 0.9623 ug/mL

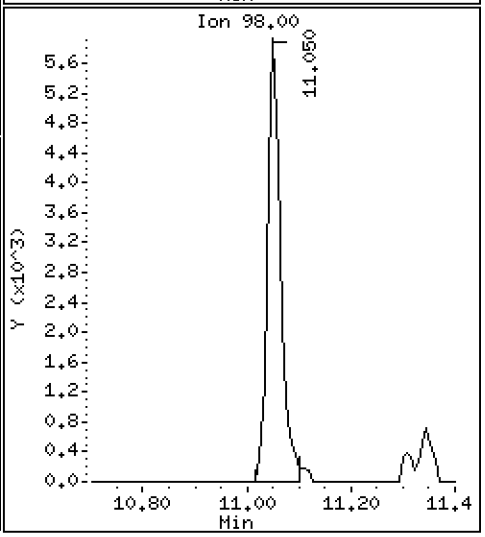


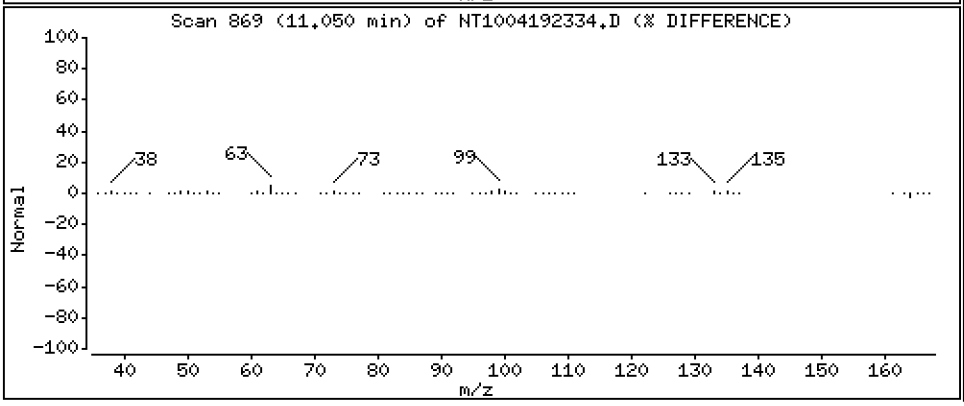












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

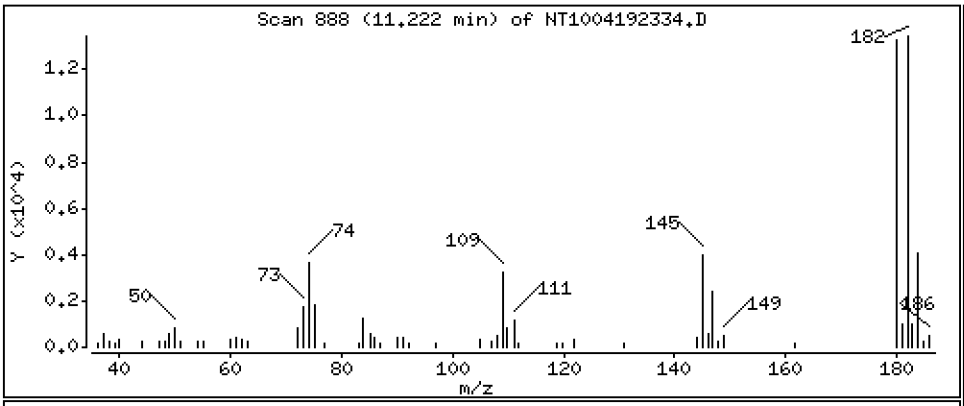
Operator: VTS

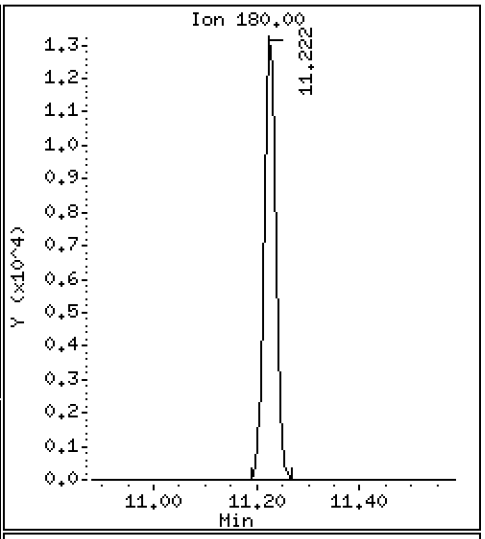
Column phase: ZB-5msi

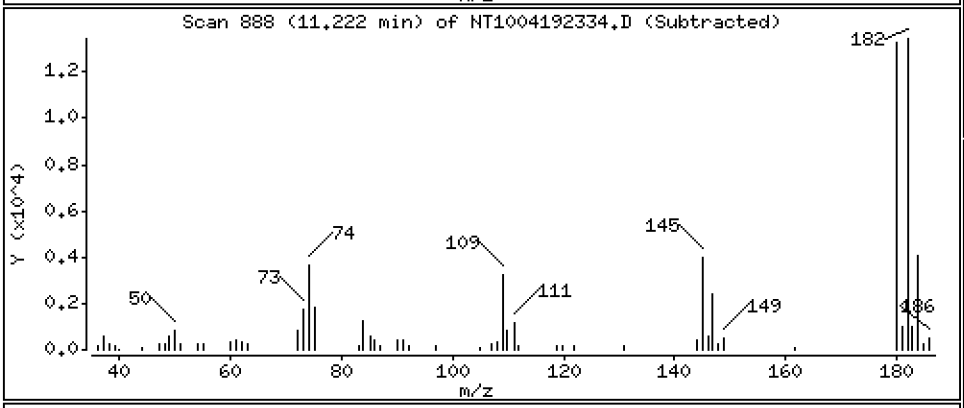
Column diameter: 0.25

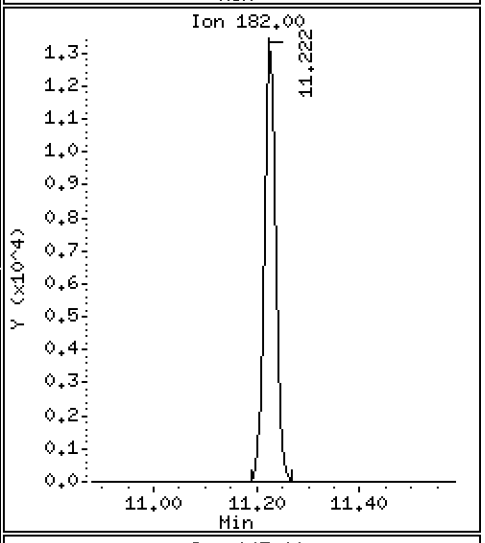
26 1,2,4-Trichlorobenzene

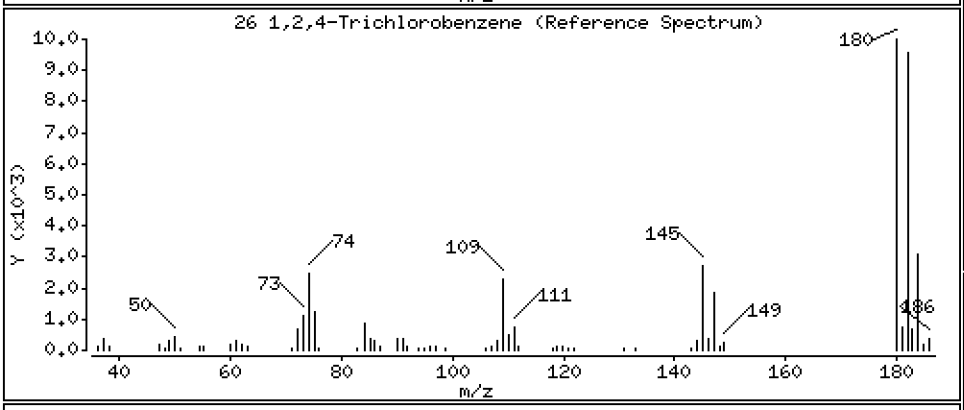
Concentration: 0.5394 ug/mL

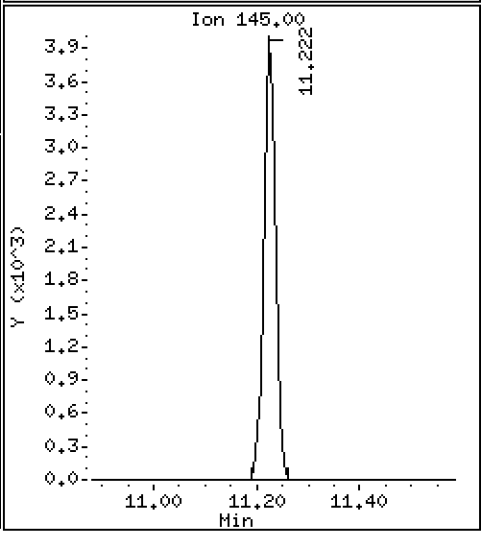


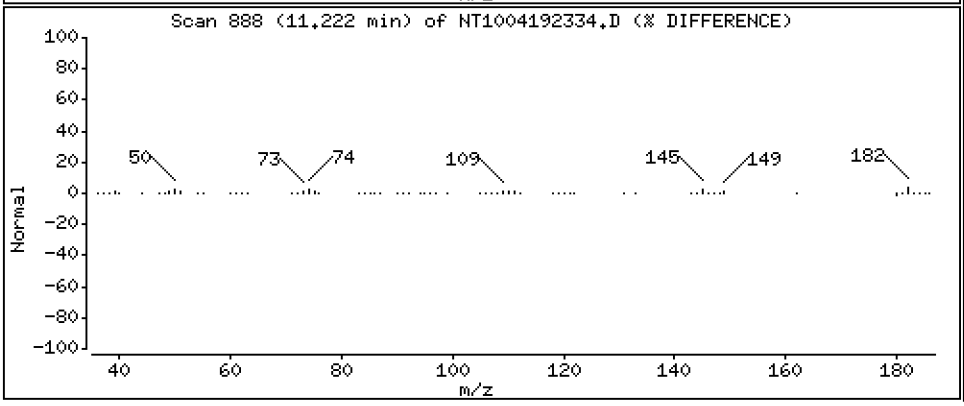












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

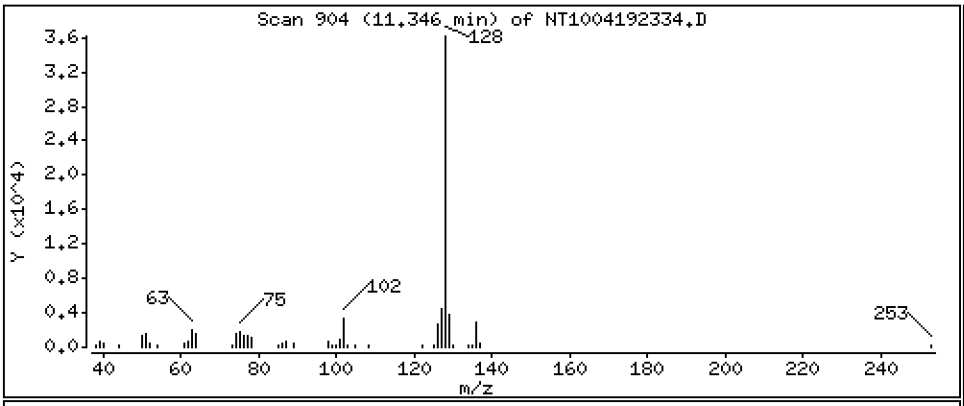
Operator: VTS

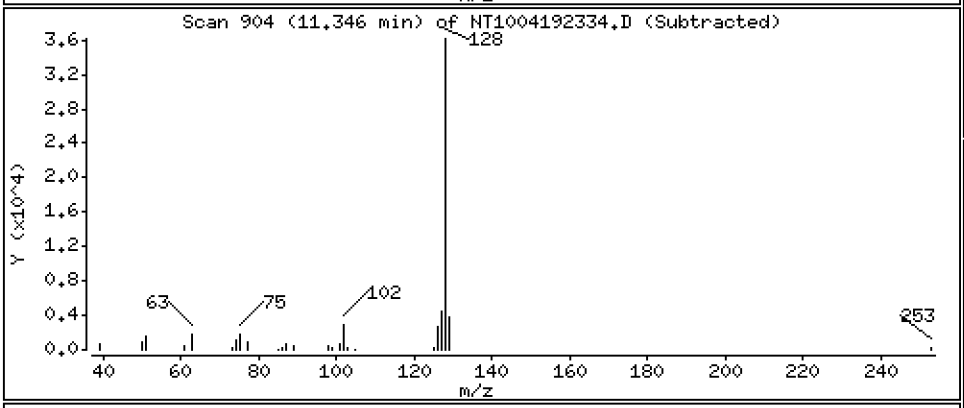
Column phase: ZB-5msi

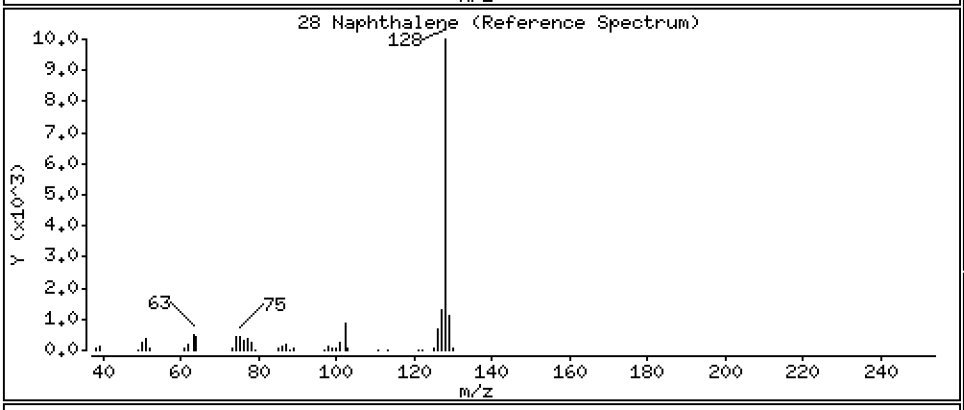
Column diameter: 0.25

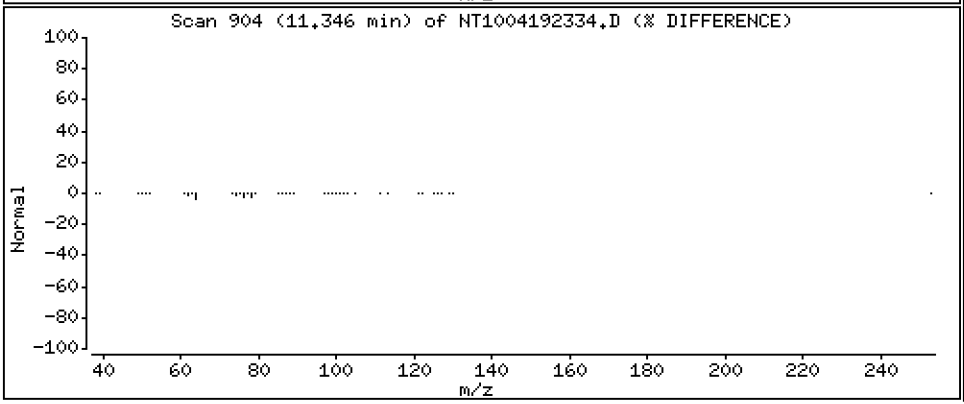
28 Naphthalene

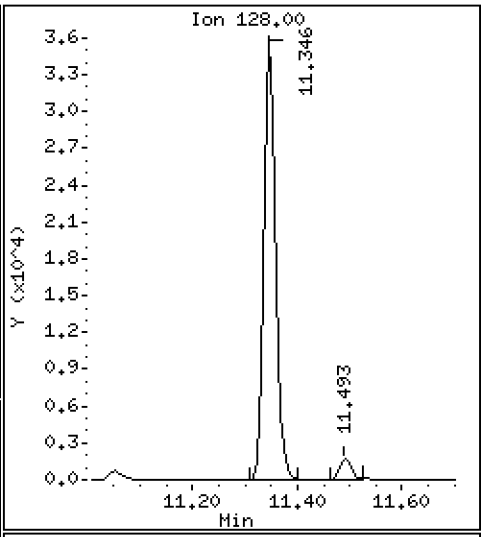
Concentration: 0.4627 ug/mL

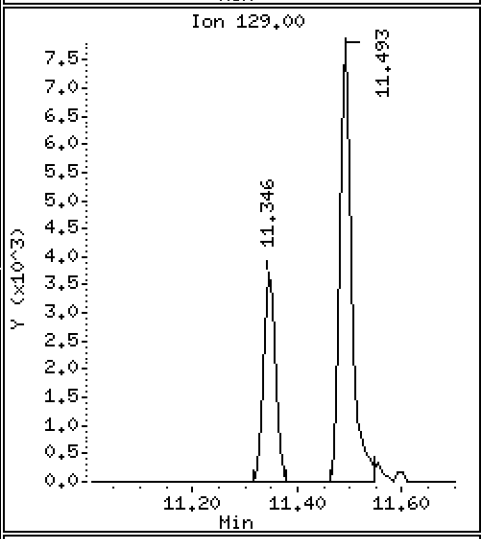


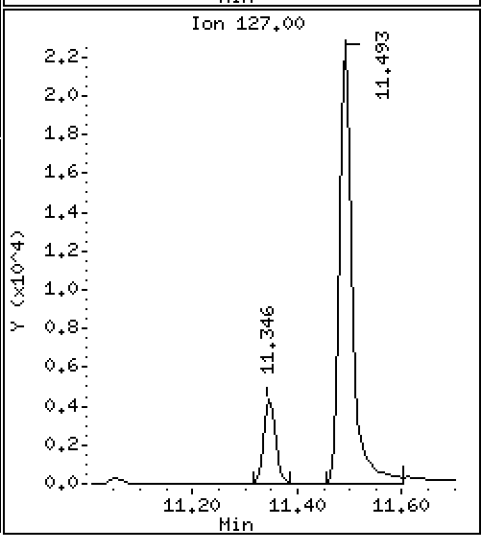












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

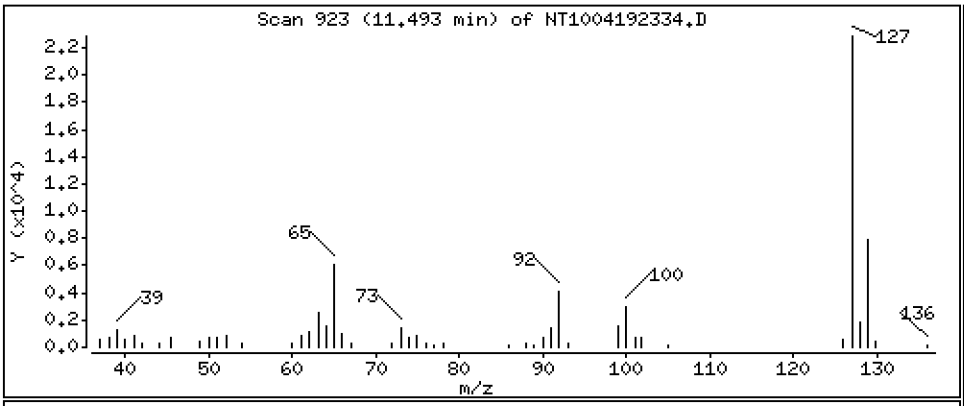
Operator: VTS

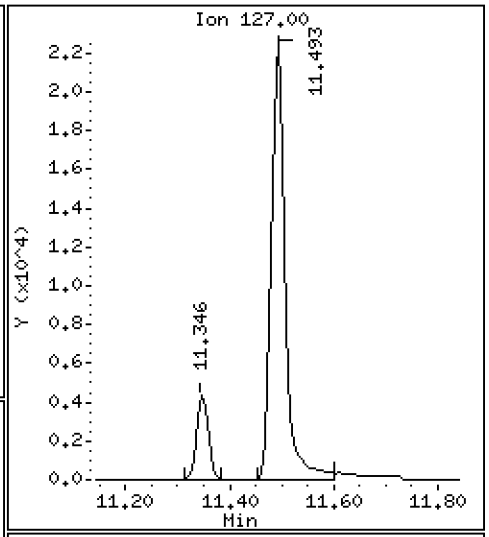
Column phase: ZB-5msi

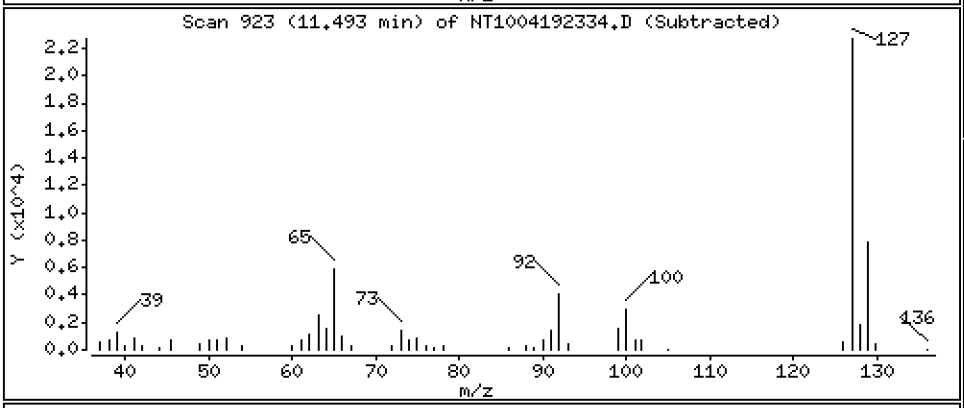
Column diameter: 0.25

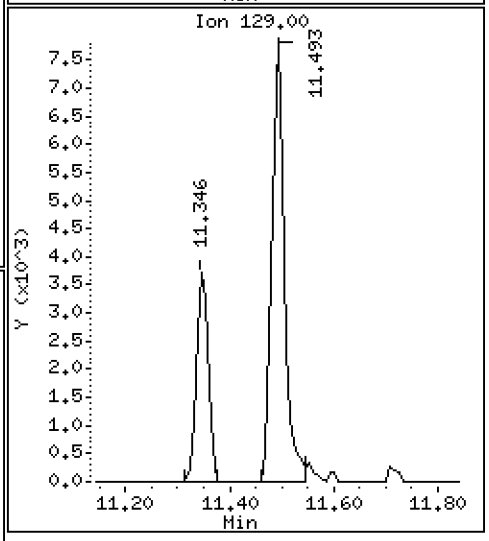
29 4-Chloroaniline

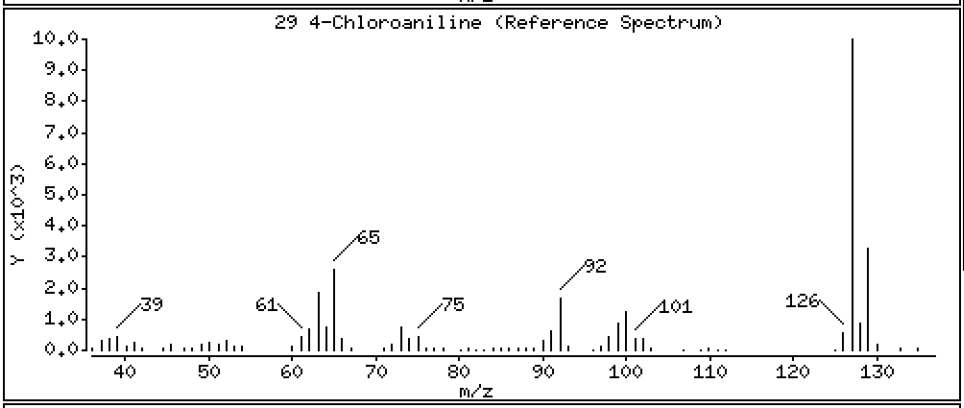
Concentration: 0.9309 ug/mL

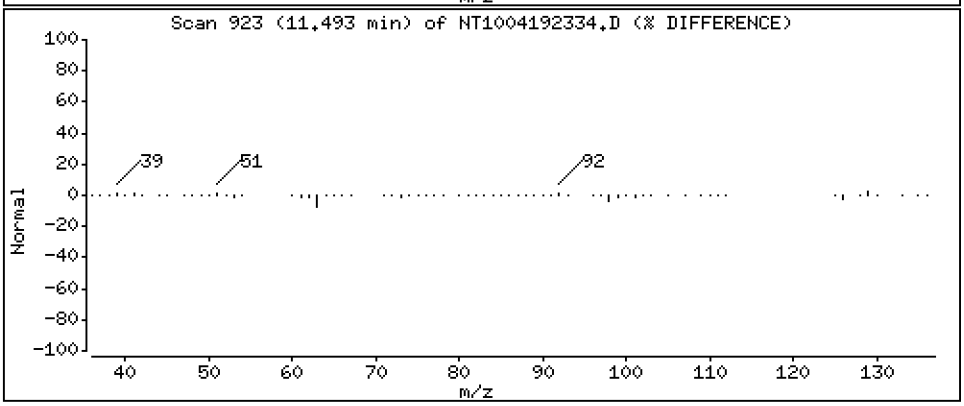












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

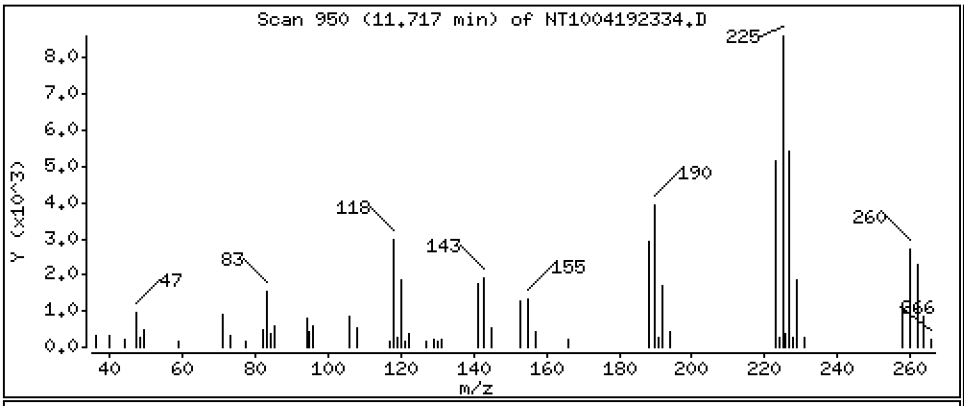
Operator: VTS

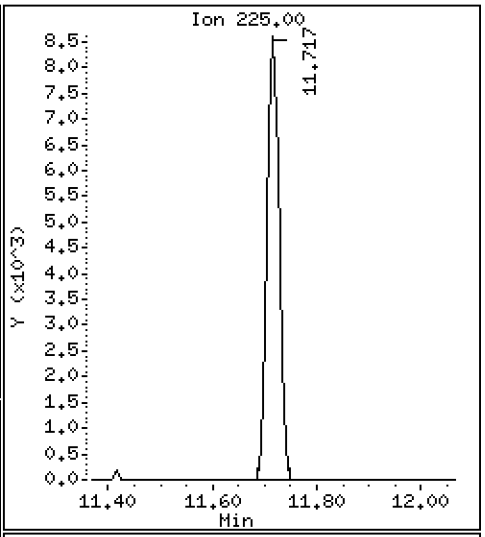
Column phase: ZB-5msi

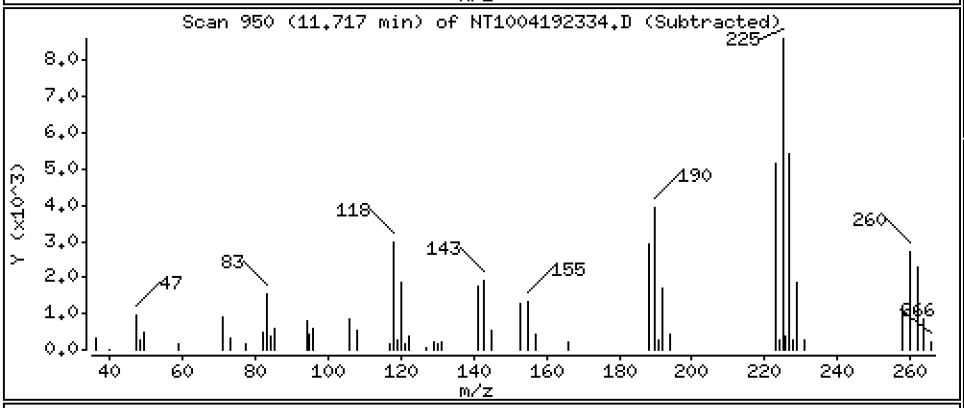
Column diameter: 0.25

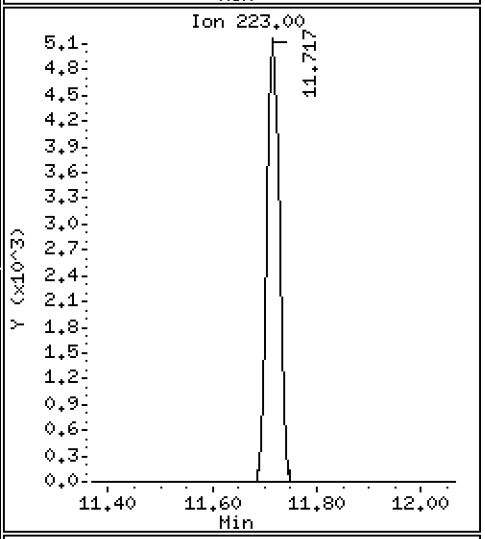
30 Hexachlorobutadiene

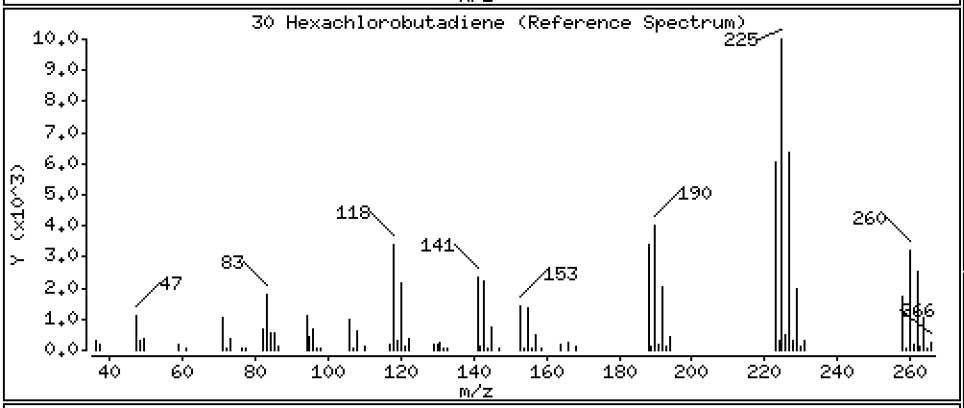
Concentration: 0.5578 ug/mL

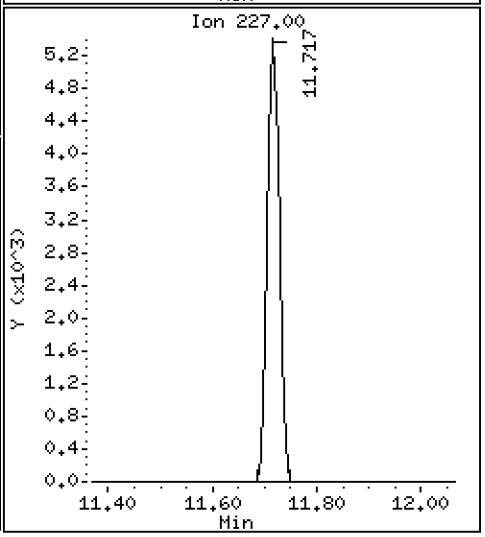


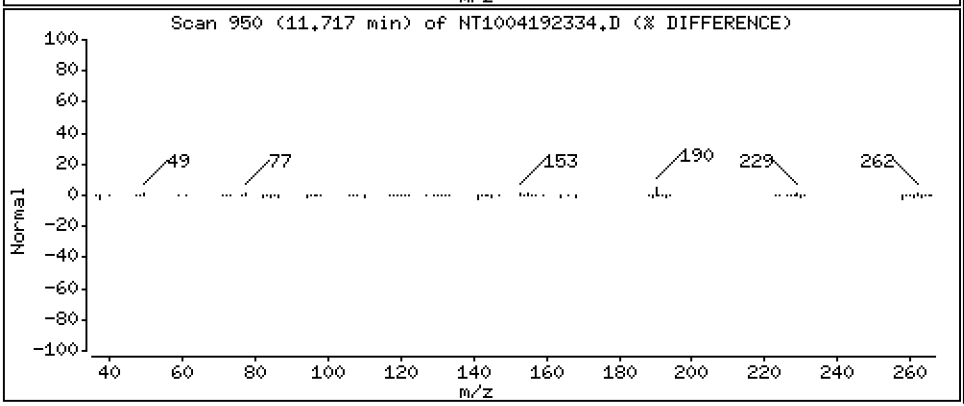












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

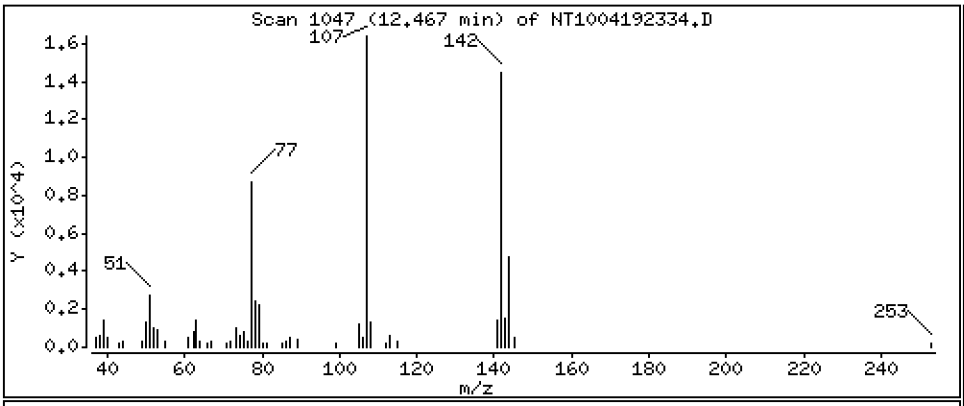
Operator: VTS

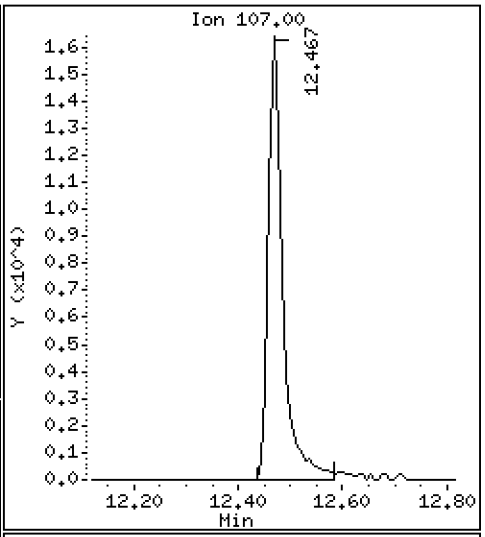
Column phase: ZB-5msi

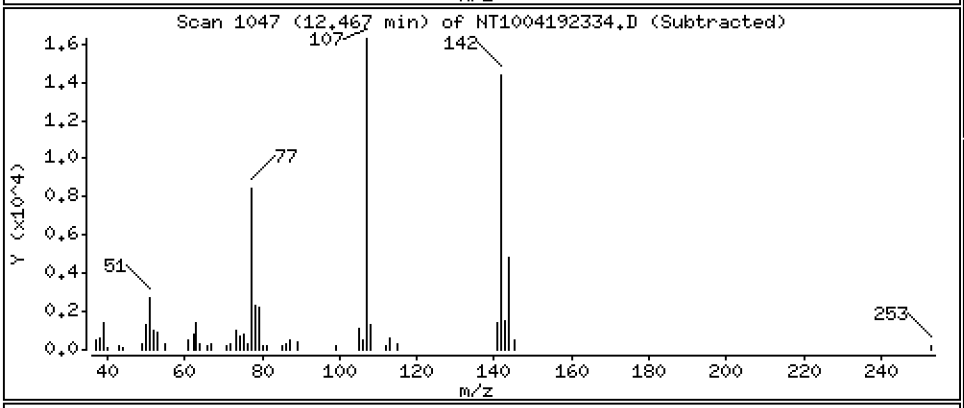
Column diameter: 0.25

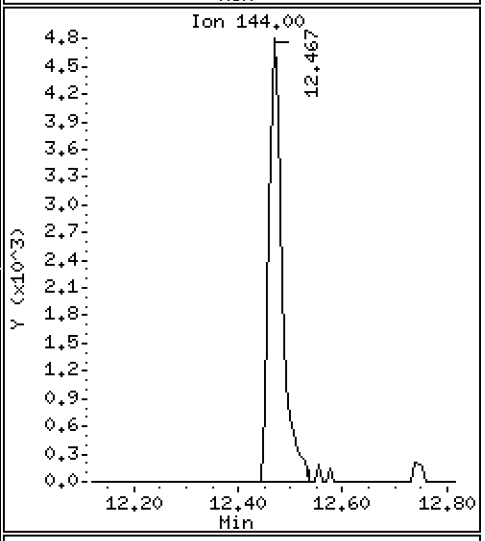
31 4-Chloro-3-methylphenol

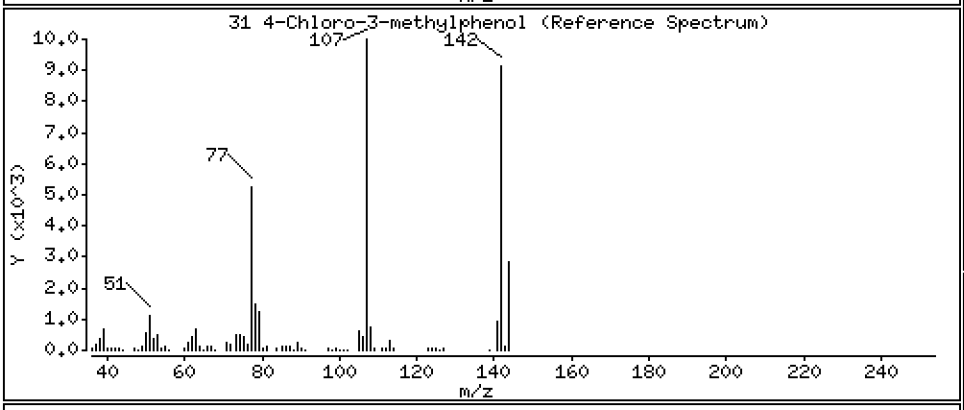
Concentration: 0.8273 ug/mL

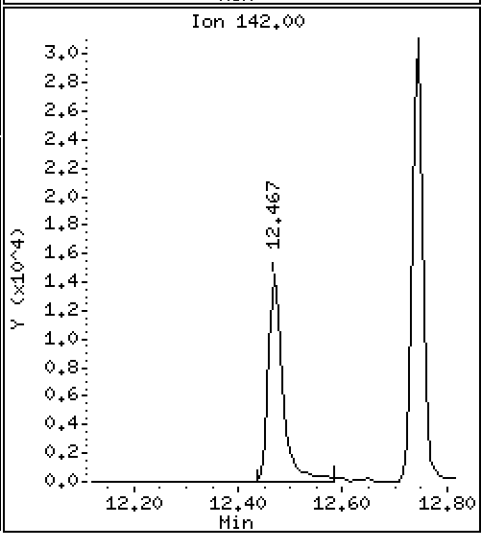


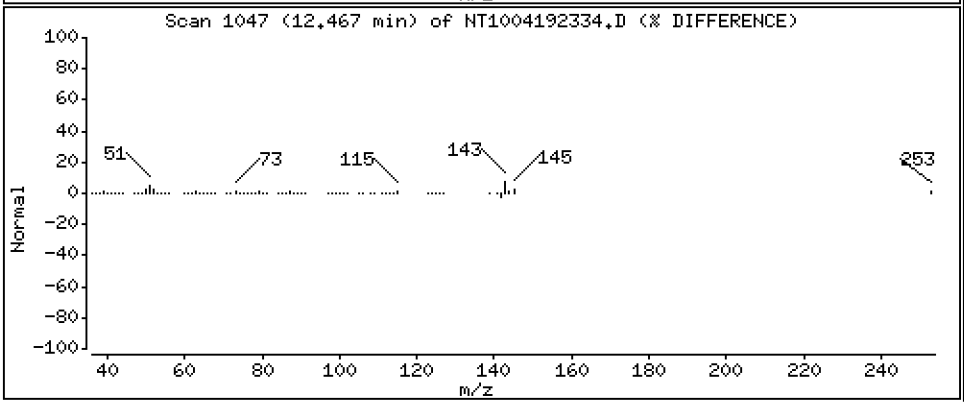












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192334.D

Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

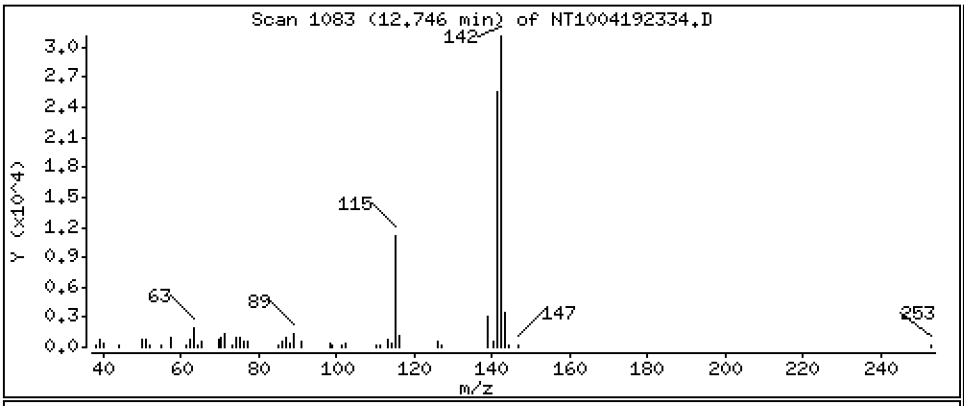
Operator: VTS

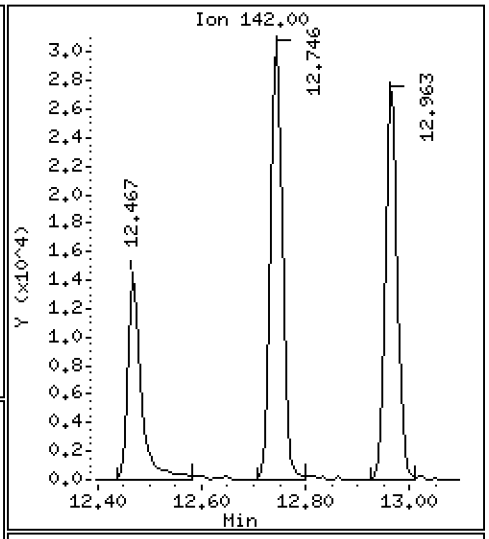
Column phase: ZB-5msi

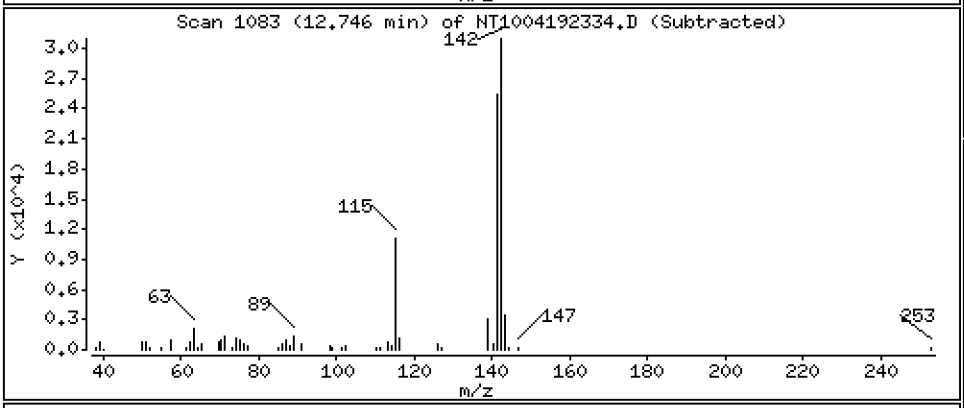
Column diameter: 0.25

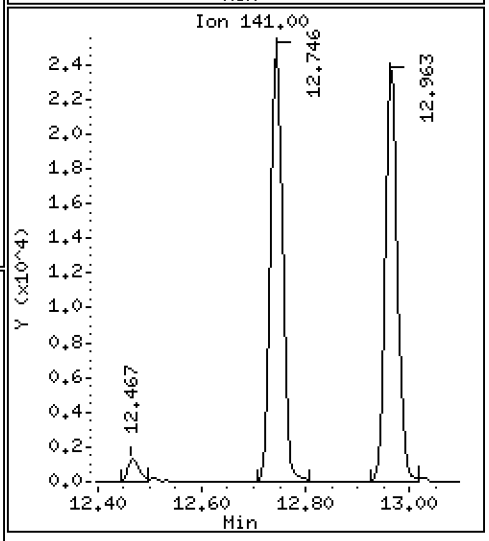
32 2-Methylnaphthalene

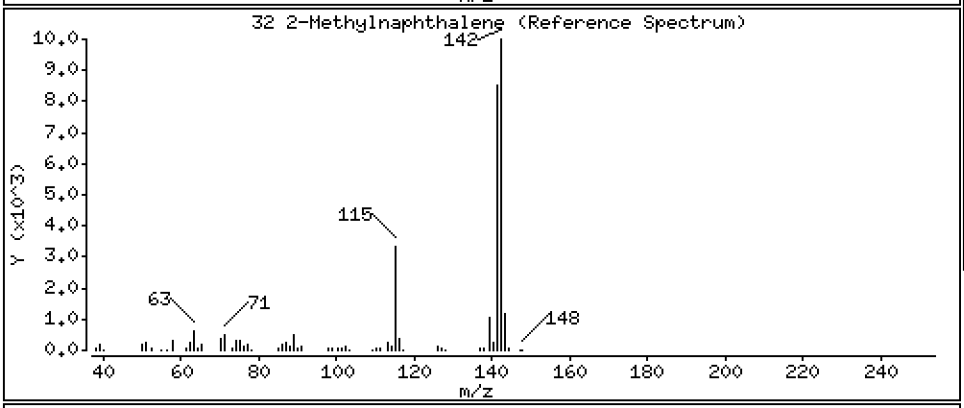
Concentration: 0.5200 ug/mL

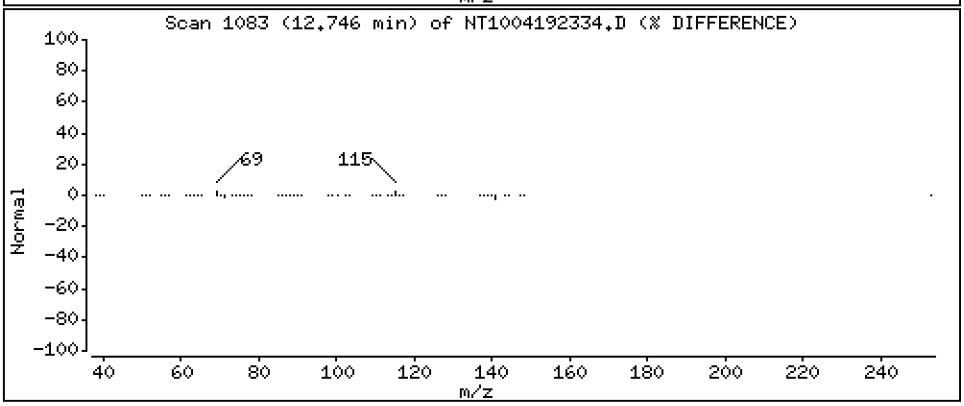












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192334.D

Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

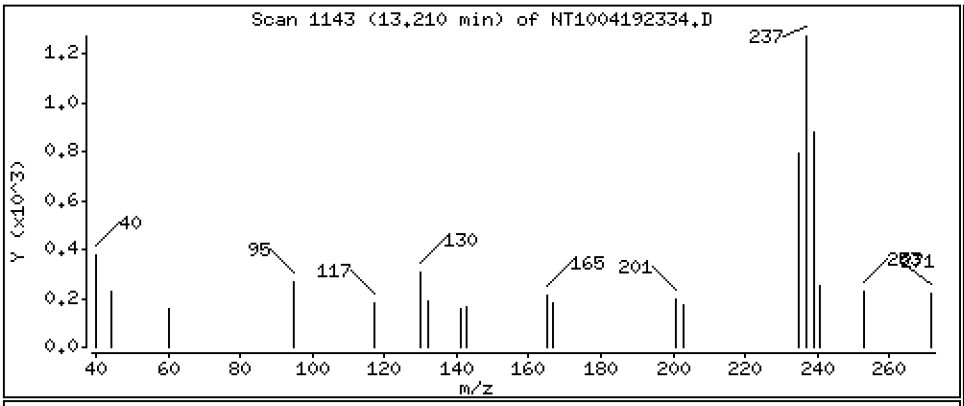
Operator: VTS

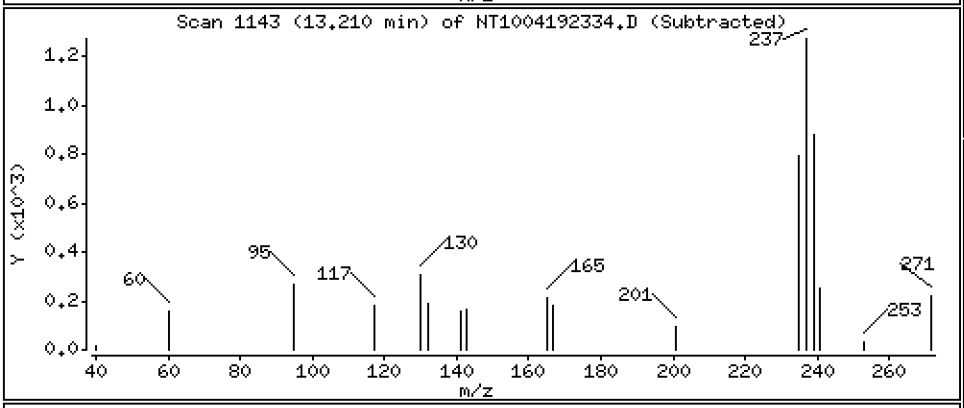
Column phase: ZB-5msi

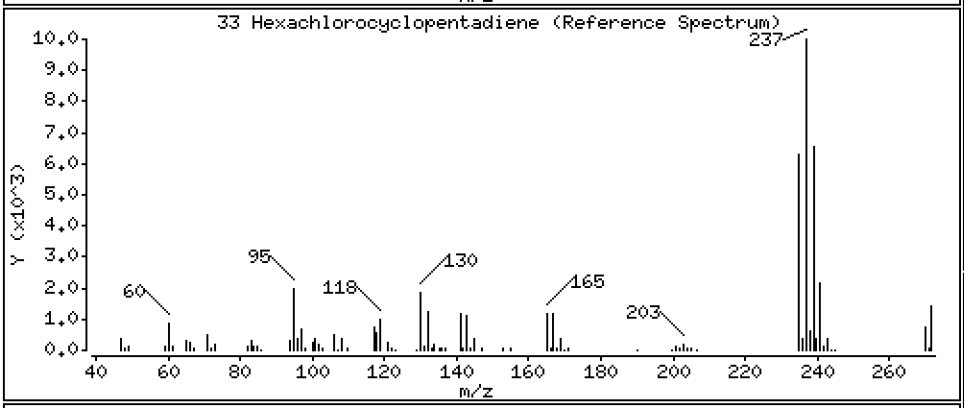
Column diameter: 0.25

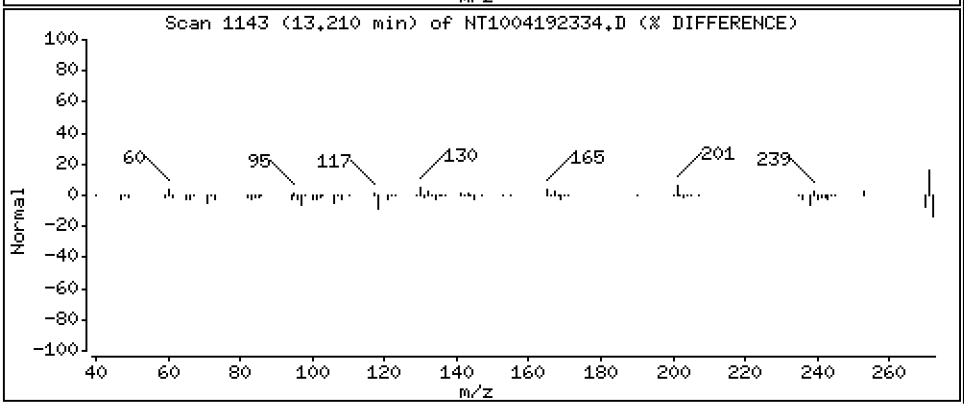
33 Hexachlorocyclopentadiene

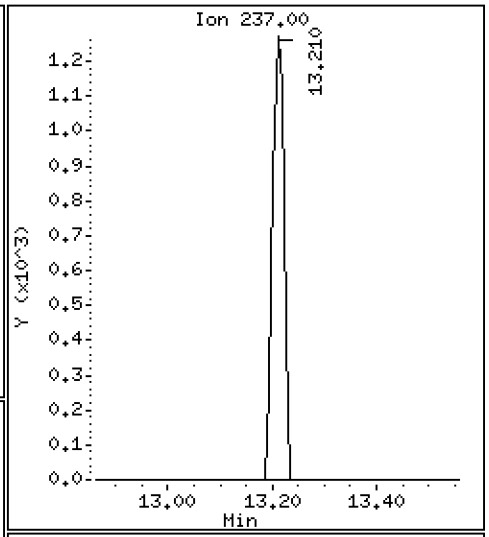
Concentration: 0.07330 ug/mL

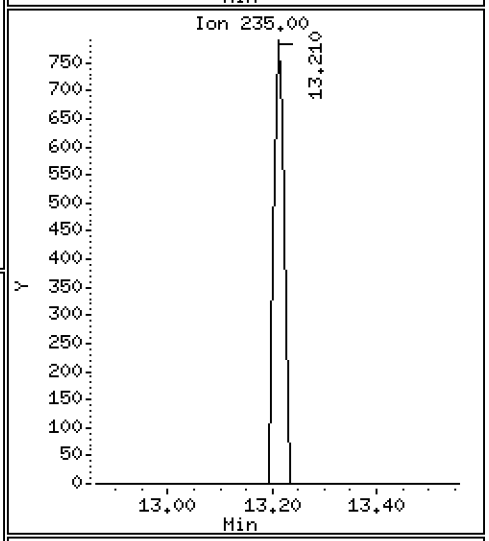


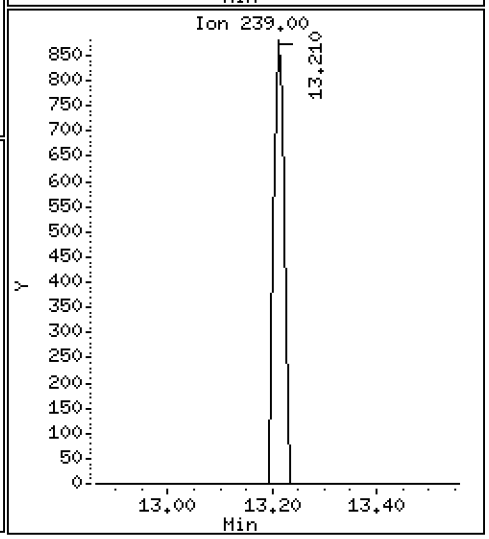












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192334.D

Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

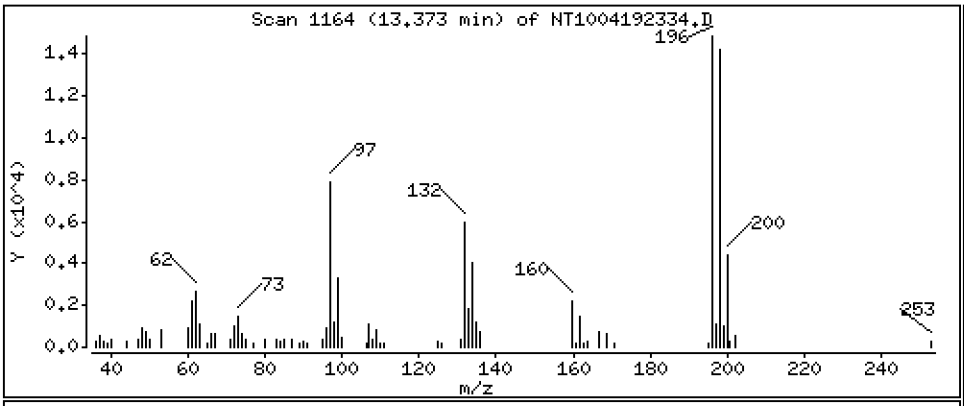
Operator: VTS

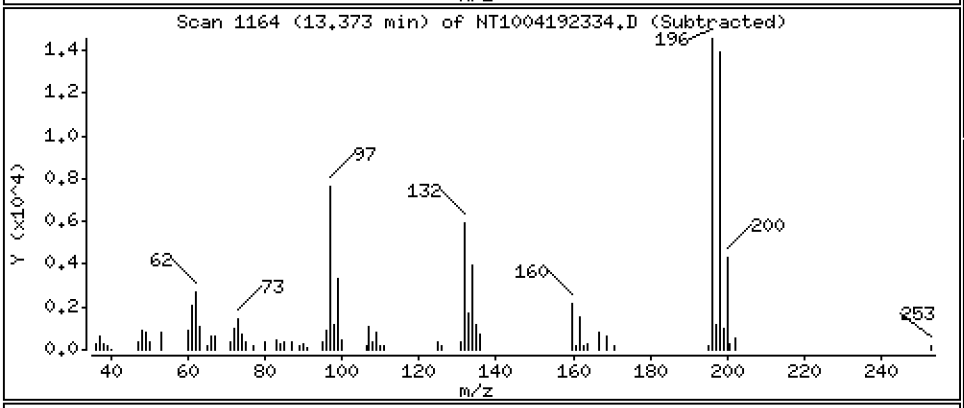
Column phase: ZB-5msi

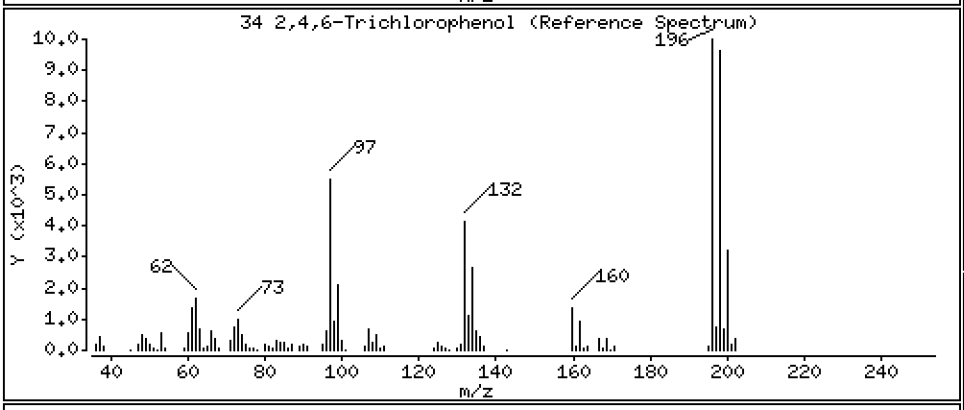
Column diameter: 0.25

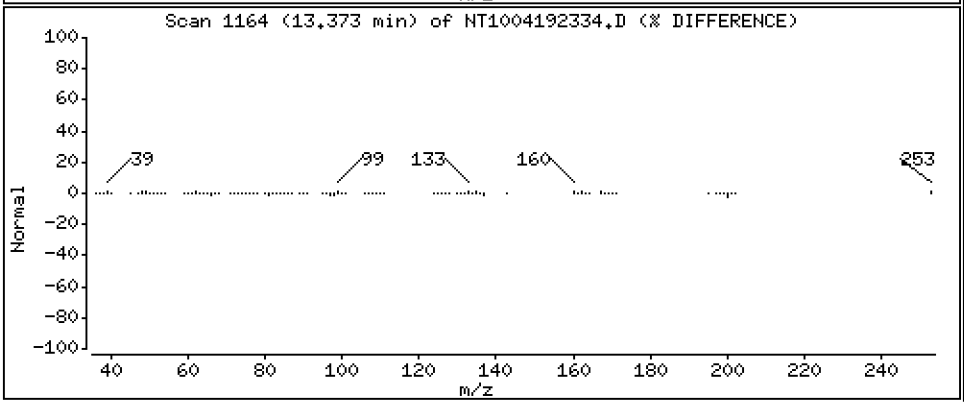
34 2,4,6-Trichlorophenol

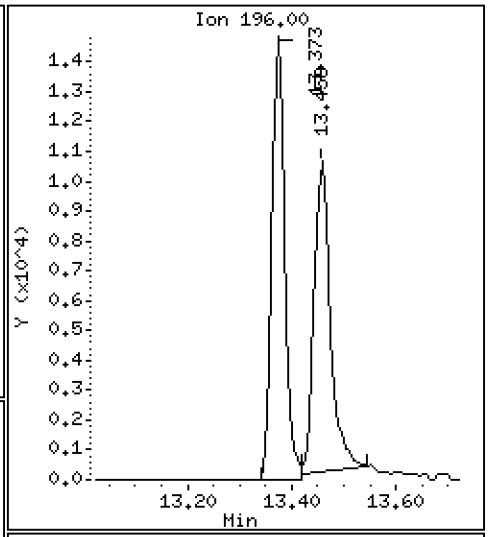
Concentration: 0.9052 ug/mL

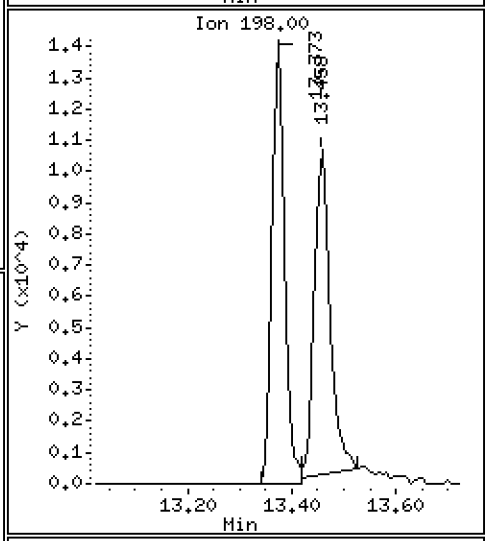


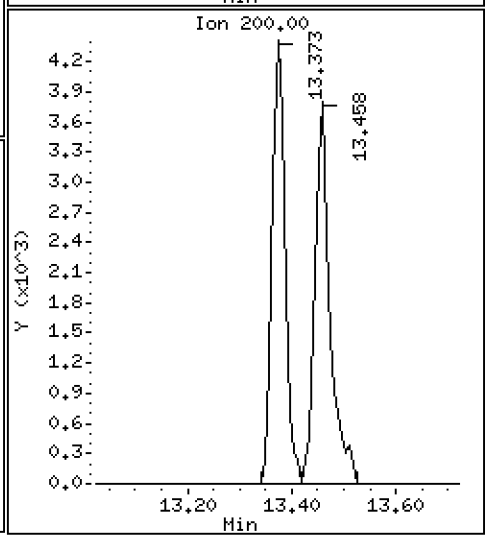












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

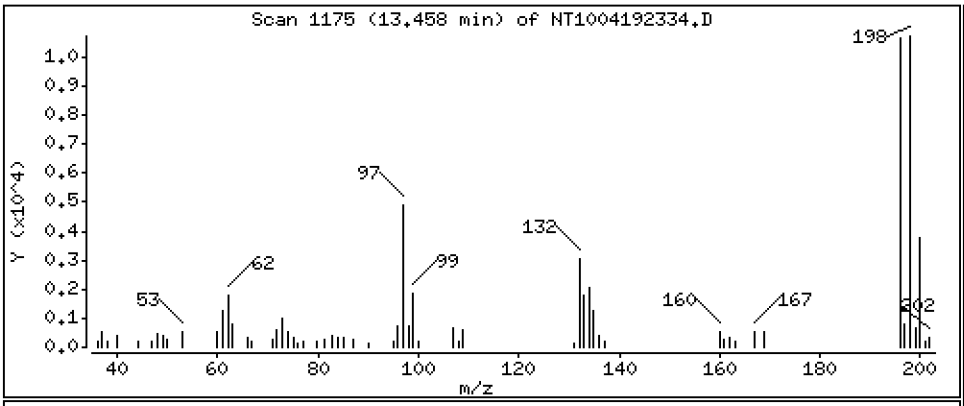
Operator: VTS

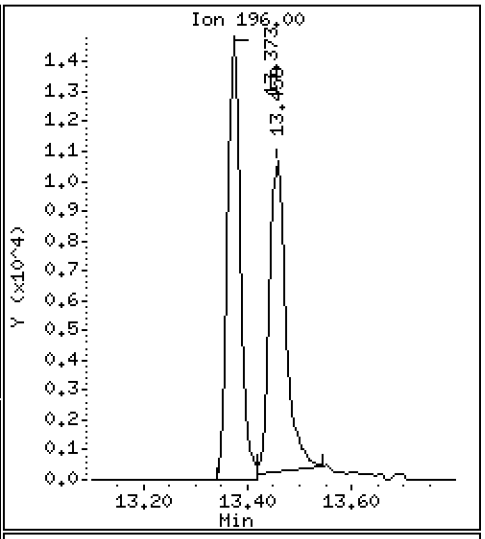
Column phase: ZB-5msi

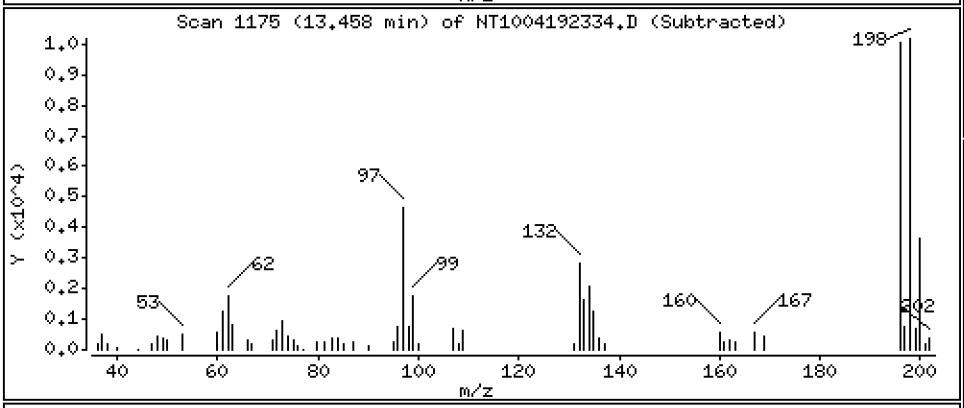
Column diameter: 0.25

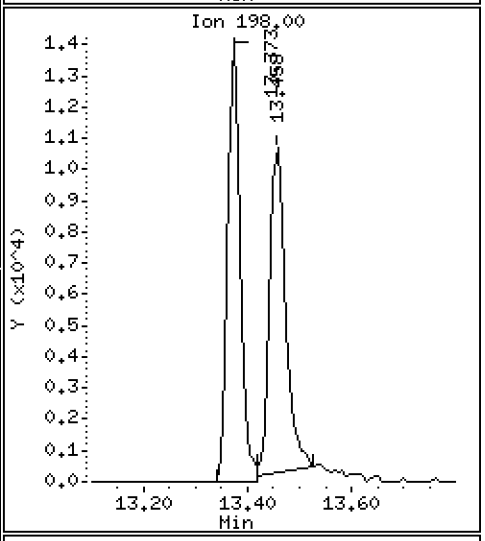
35 2,4,5-Trichlorophenol

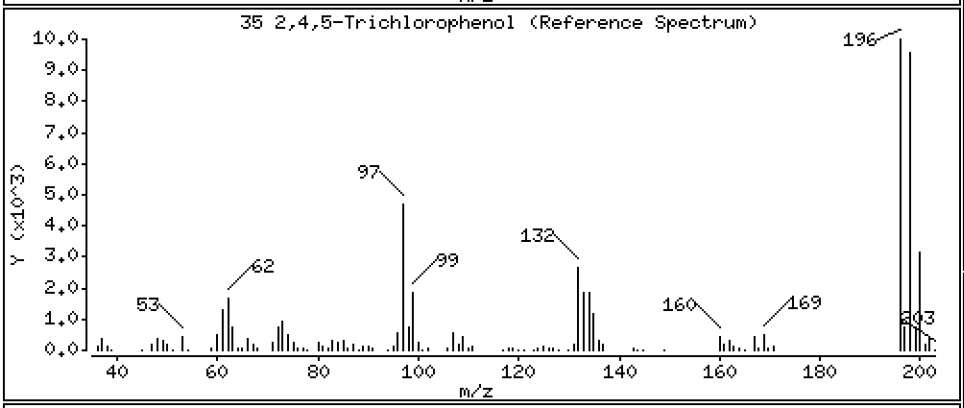
Concentration: 0.7459 ug/mL

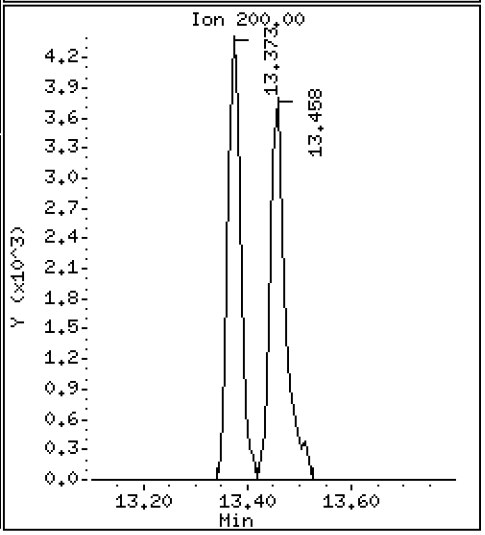


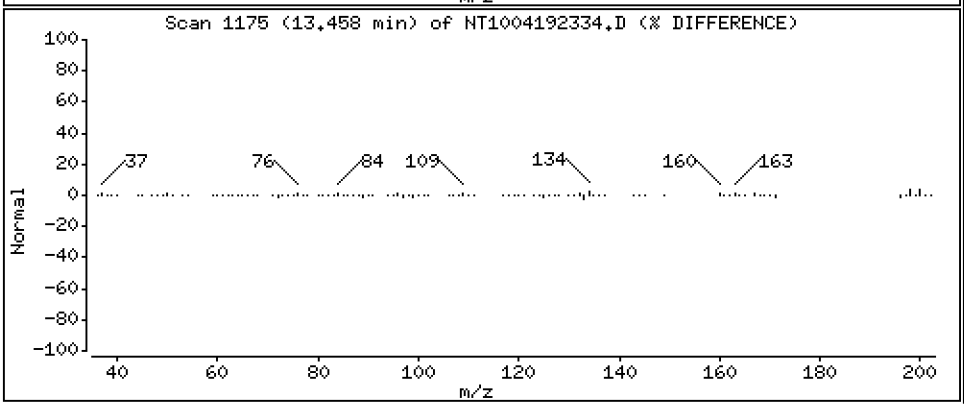












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

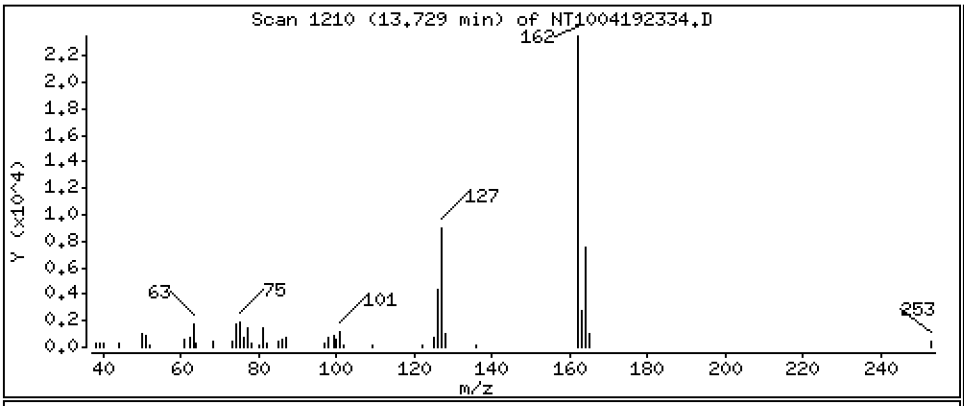
Operator: VTS

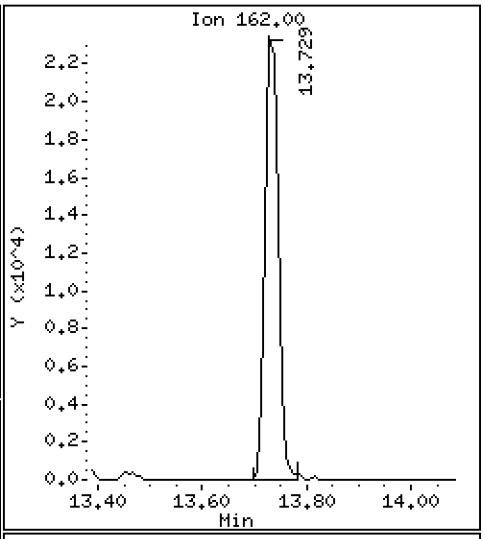
Column phase: ZB-5msi

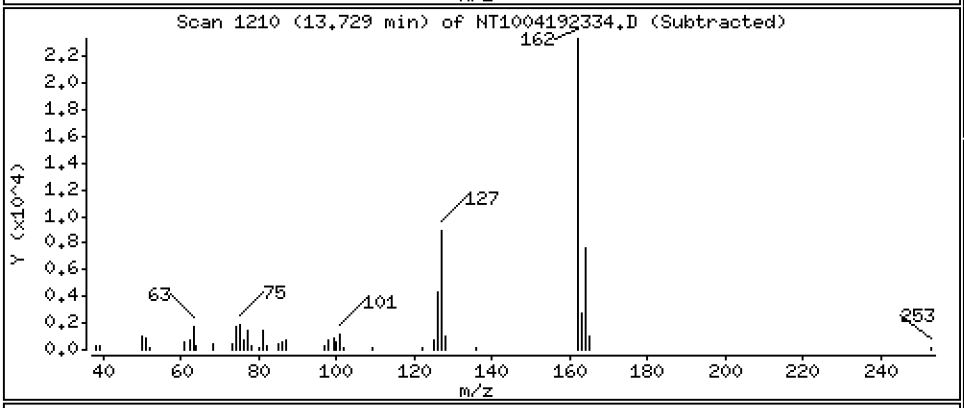
Column diameter: 0.25

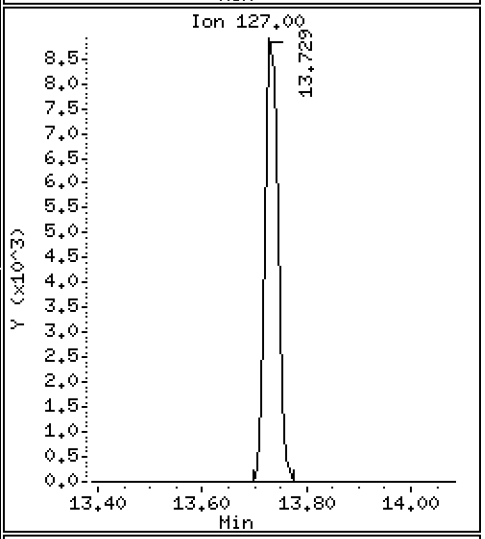
37 2-Chloronaphthalene

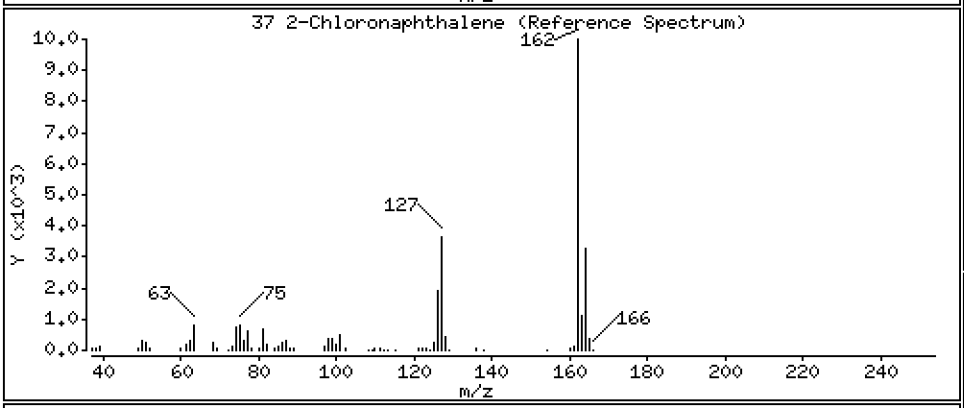
Concentration: 0.4545 ug/mL

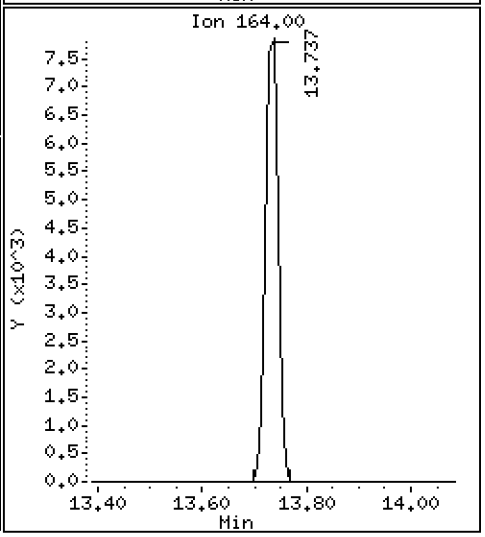


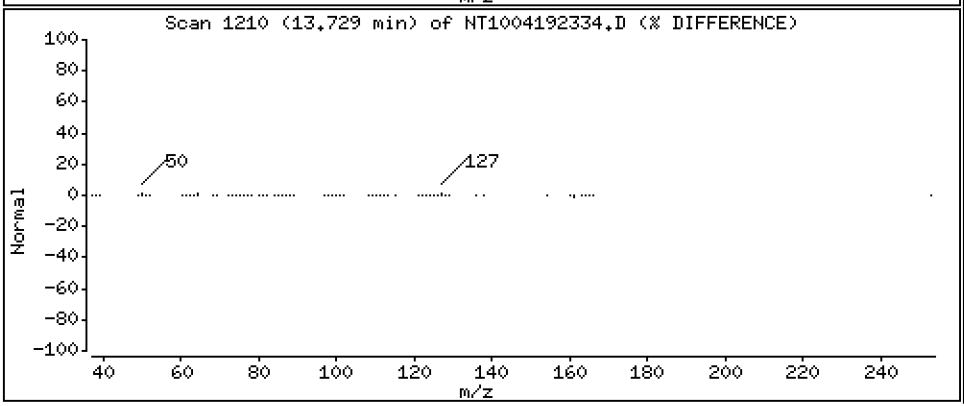












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

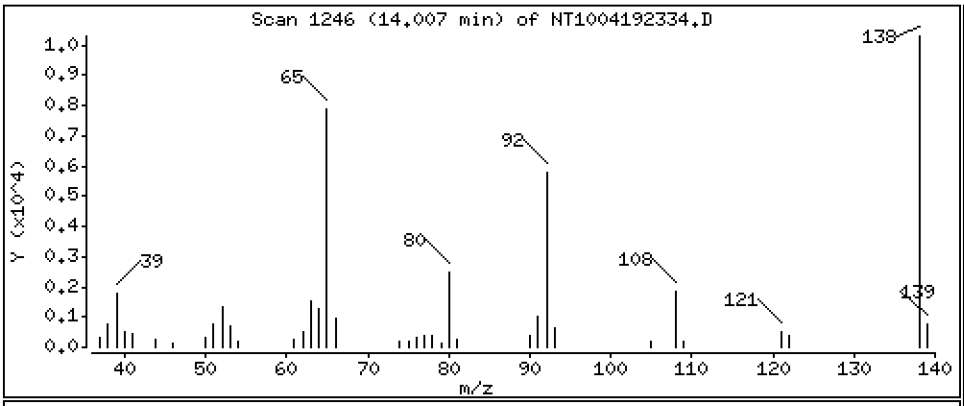
Operator: VTS

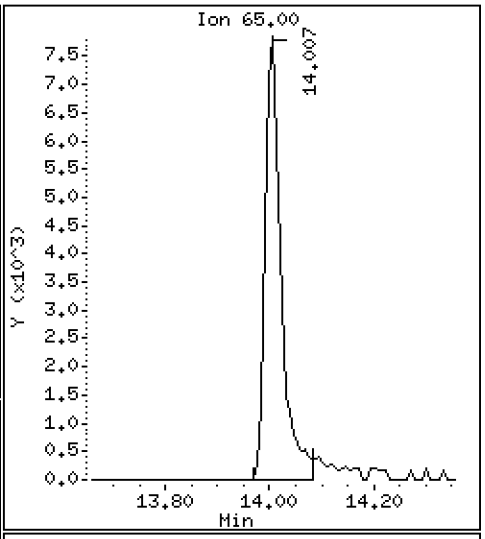
Column phase: ZB-5msi

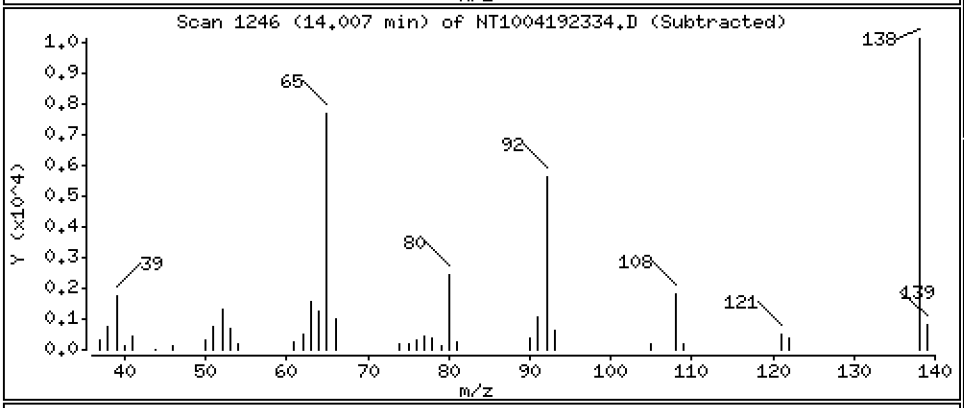
Column diameter: 0.25

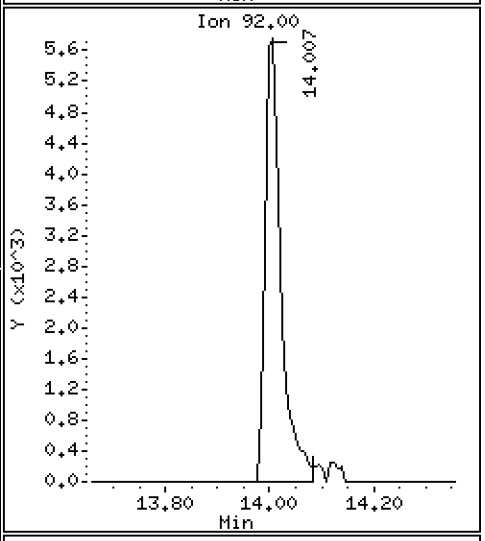
38 2-Nitroaniline

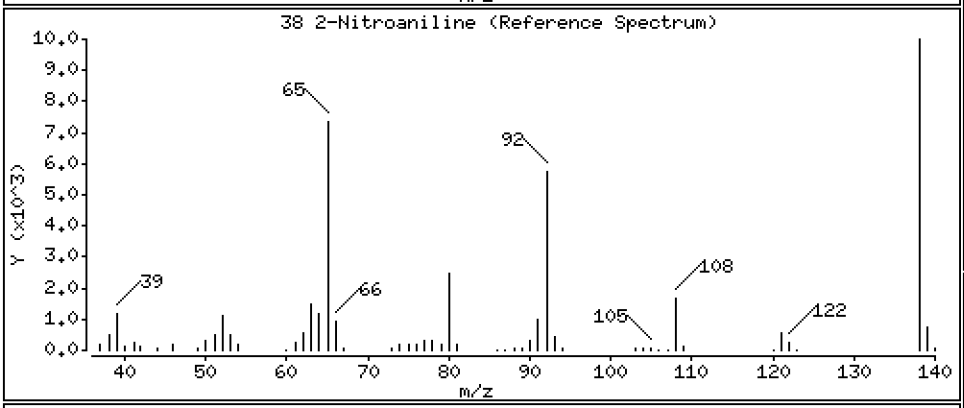
Concentration: 0.6682 ug/mL

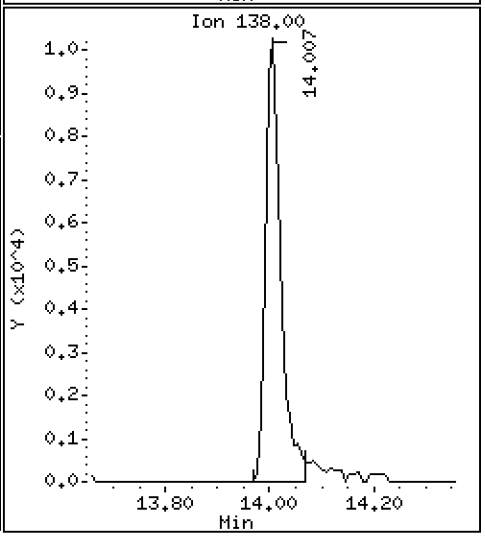


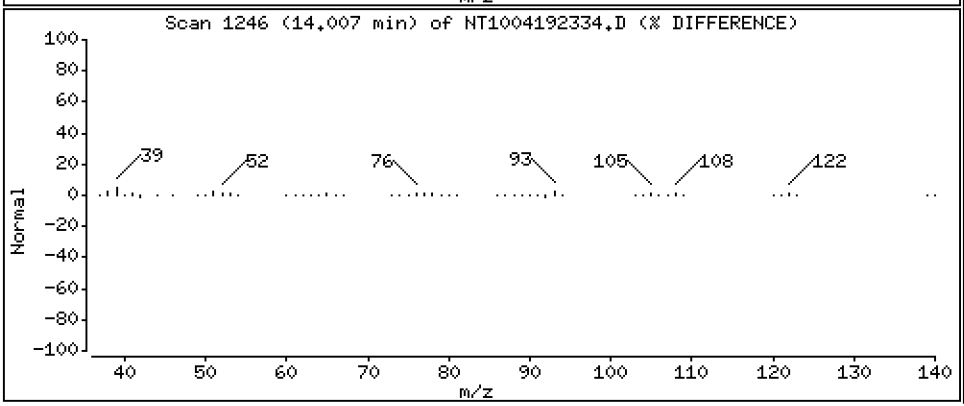












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

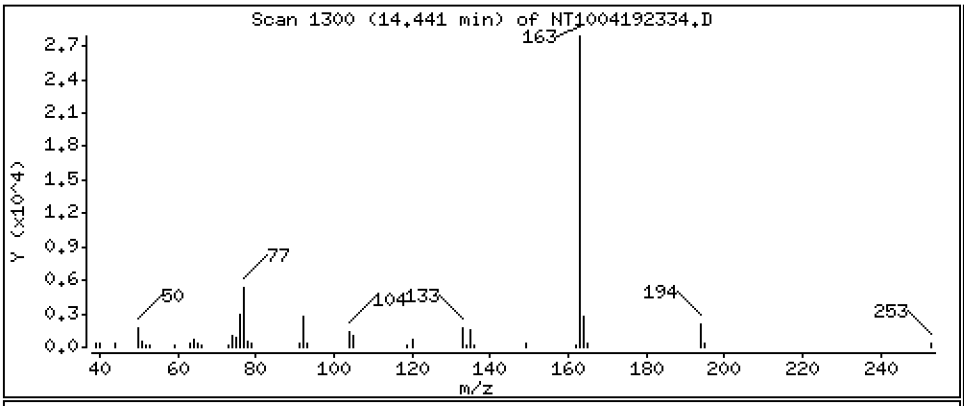
Operator: VTS

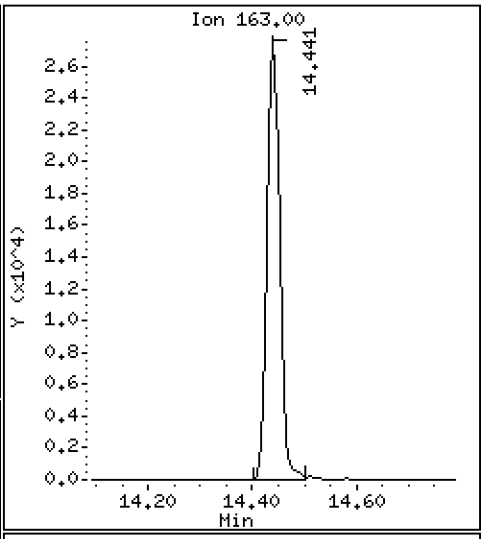
Column phase: ZB-5msi

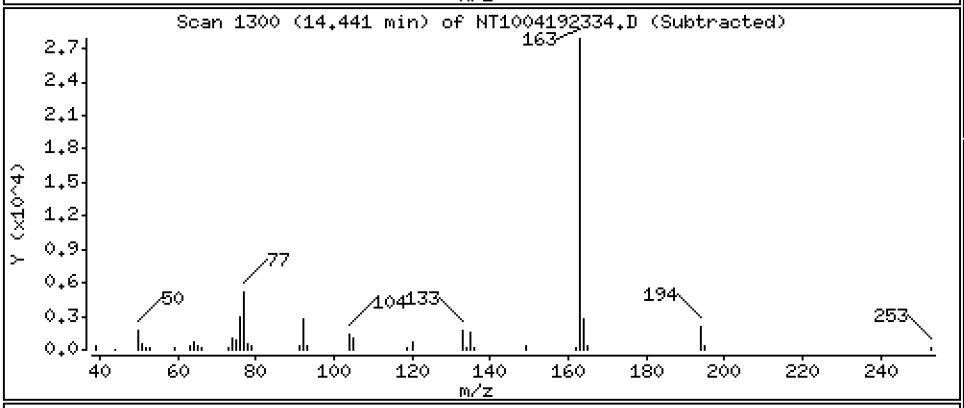
Column diameter: 0.25

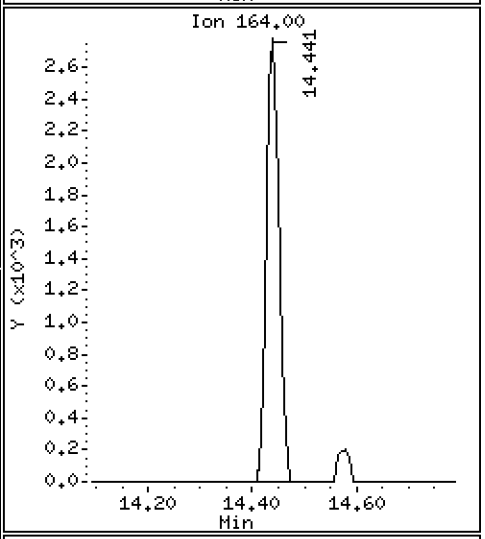
39 Dimethylphthalate

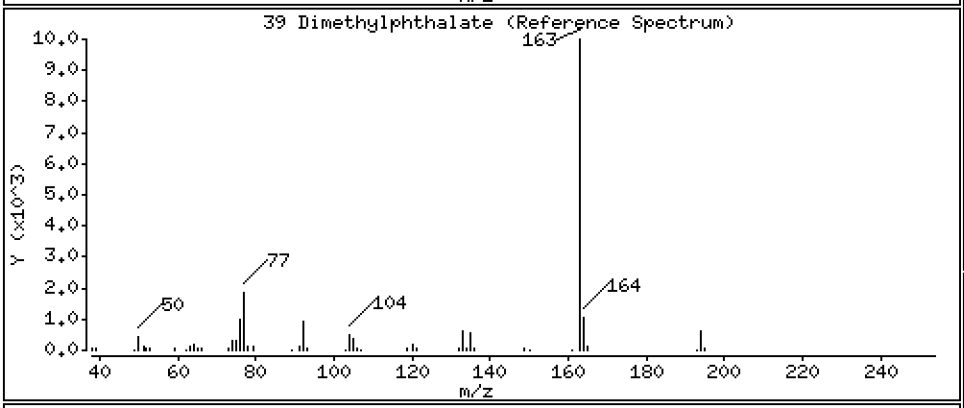
Concentration: 0.5060 ug/mL

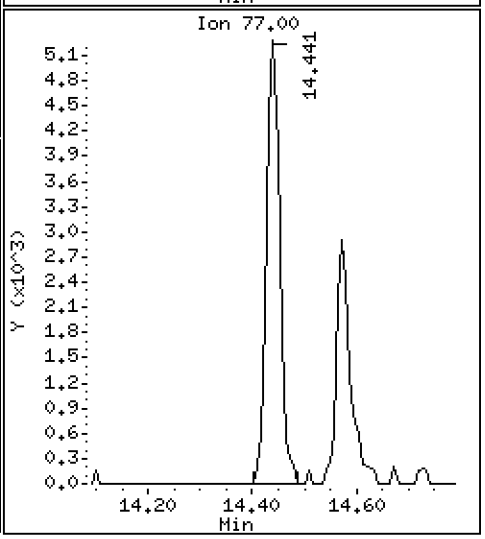


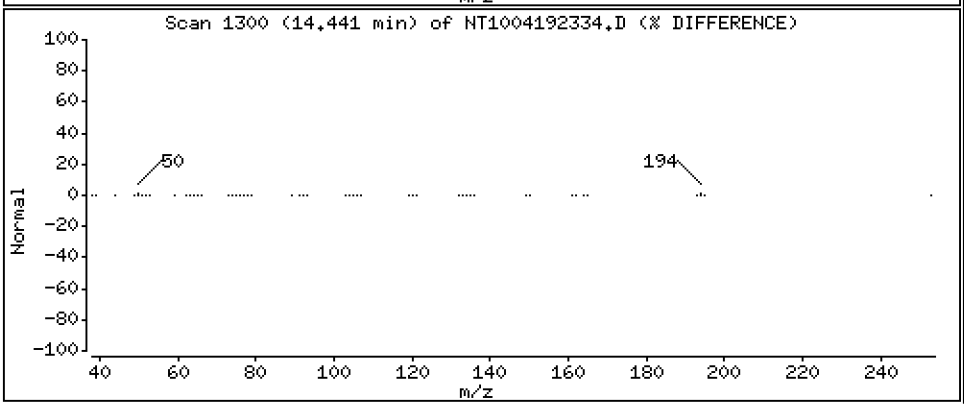












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

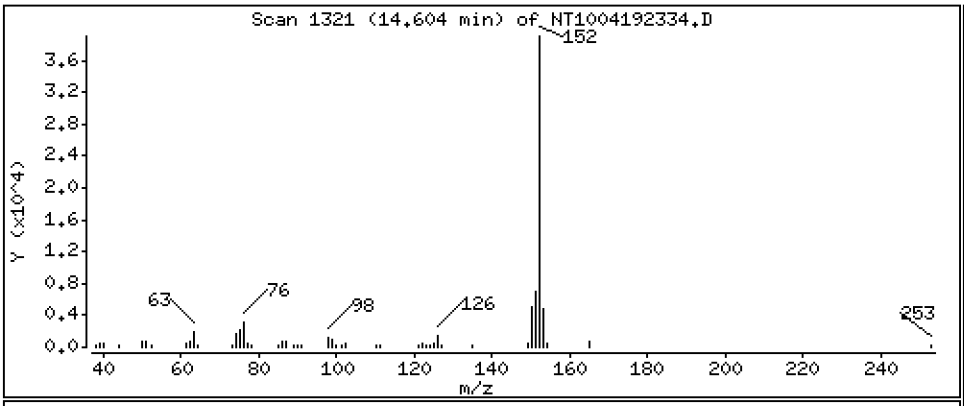
Operator: VTS

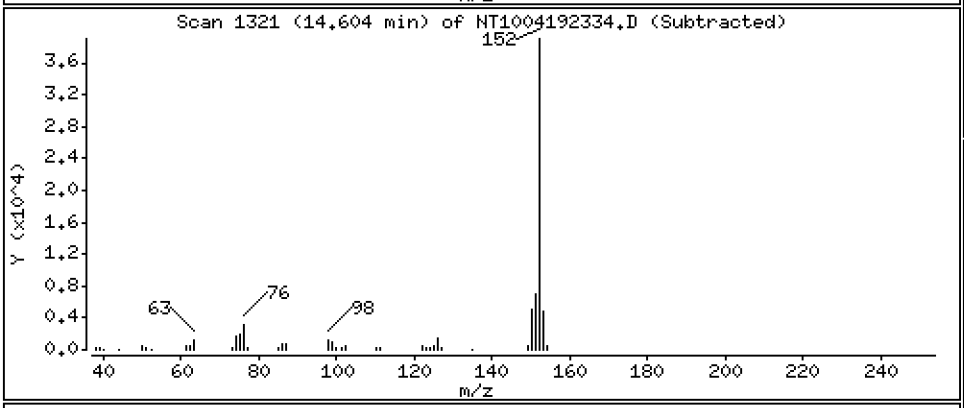
Column phase: ZB-5msi

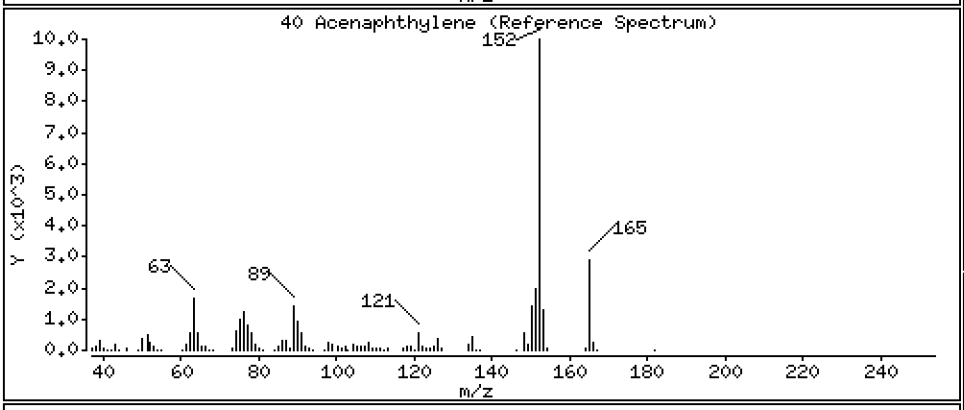
Column diameter: 0.25

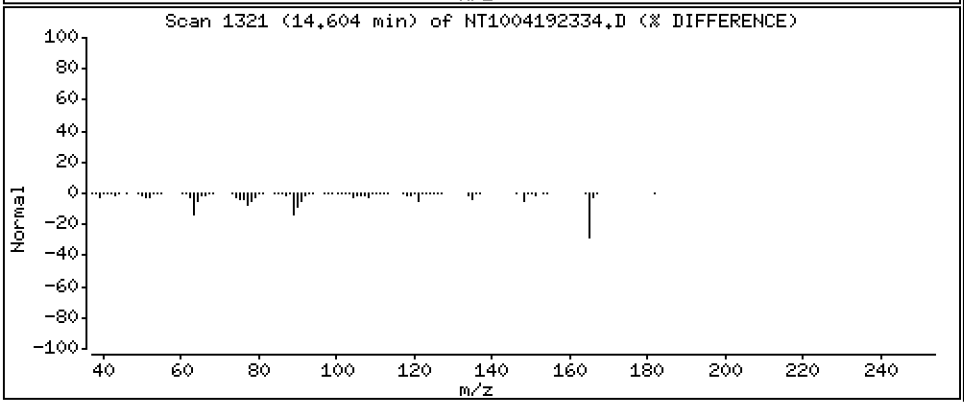
40 Acenaphthylene

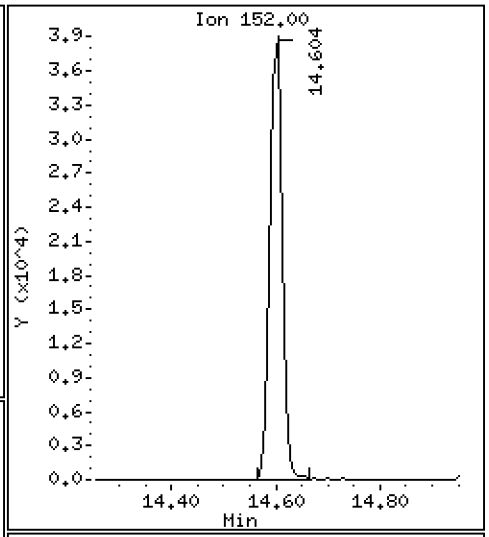
Concentration: 0.4486 ug/mL

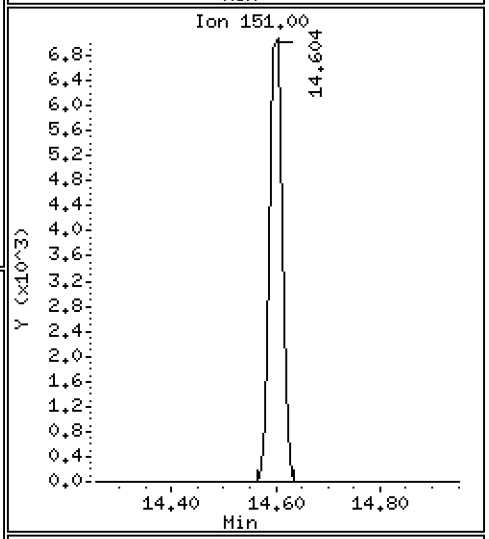


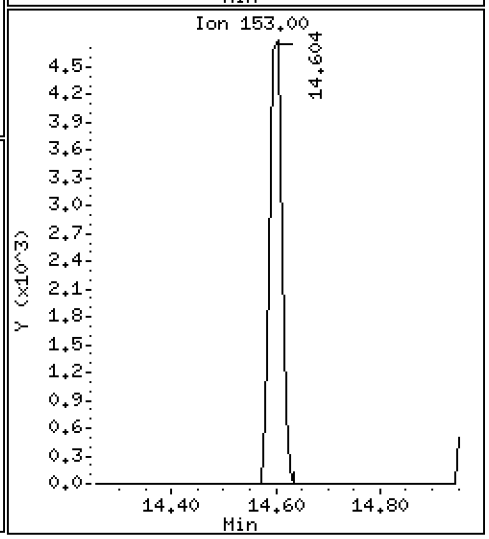












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

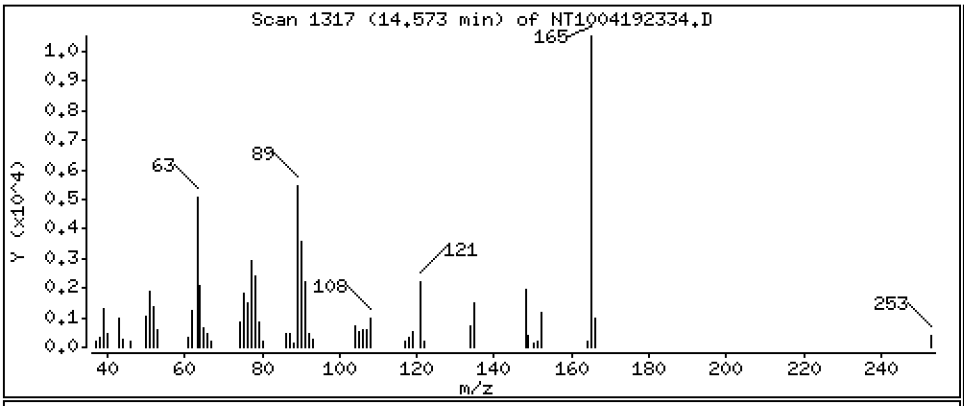
Operator: VTS

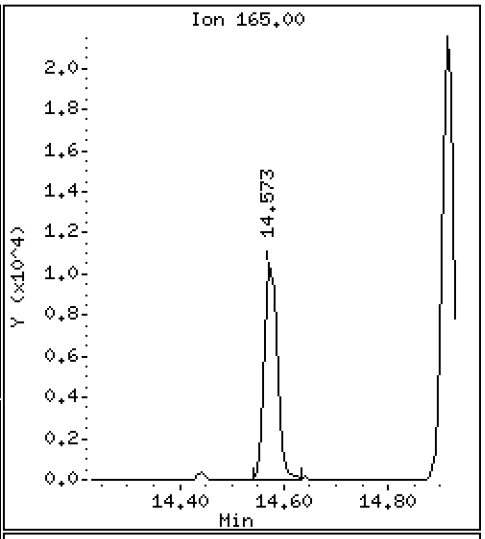
Column phase: ZB-5msi

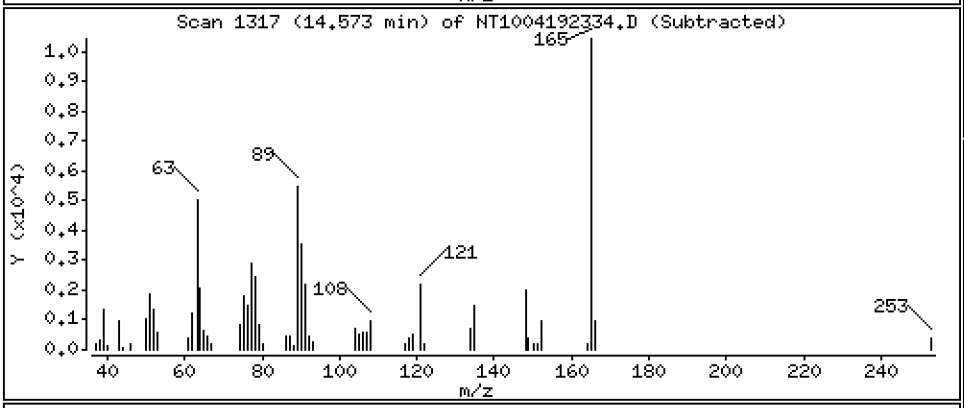
Column diameter: 0.25

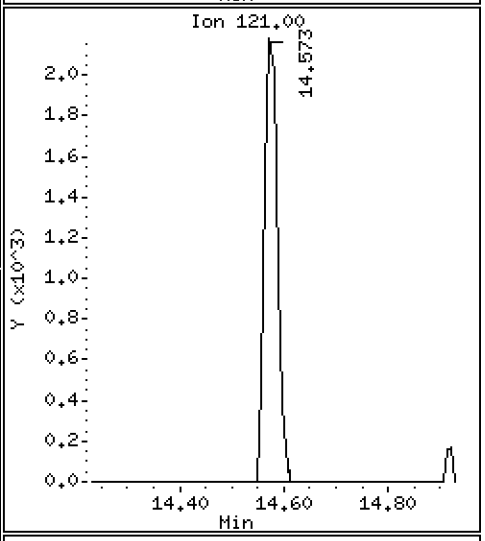
41 2,6-Dinitrotoluene

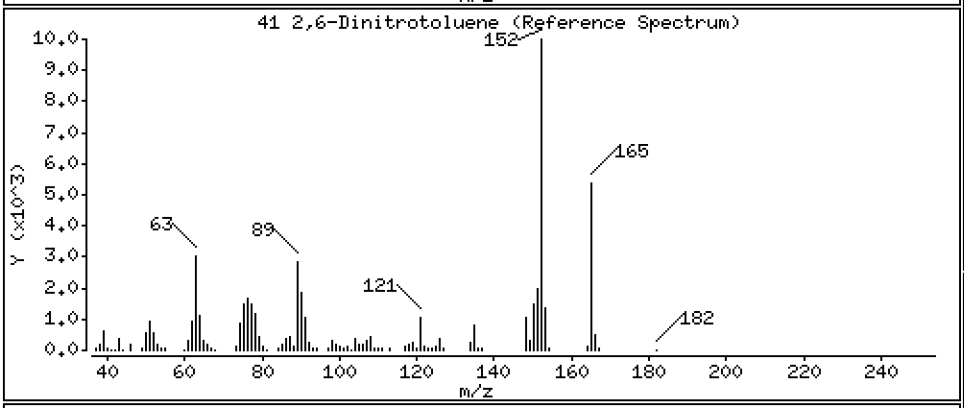
Concentration: 0.9073 ug/mL

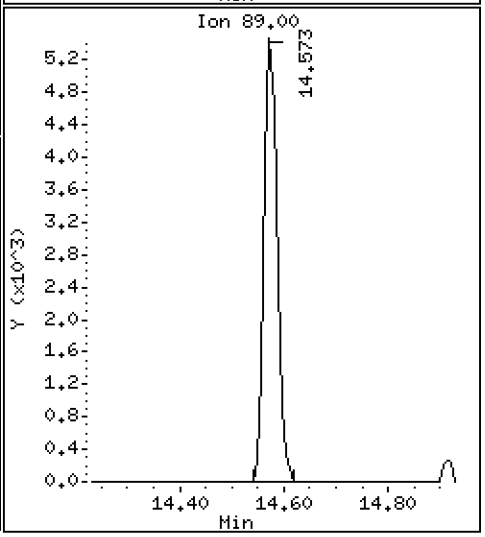


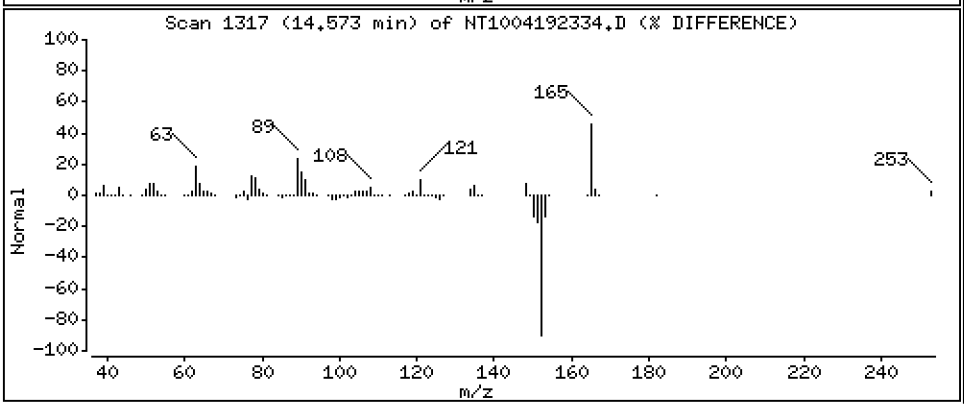












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

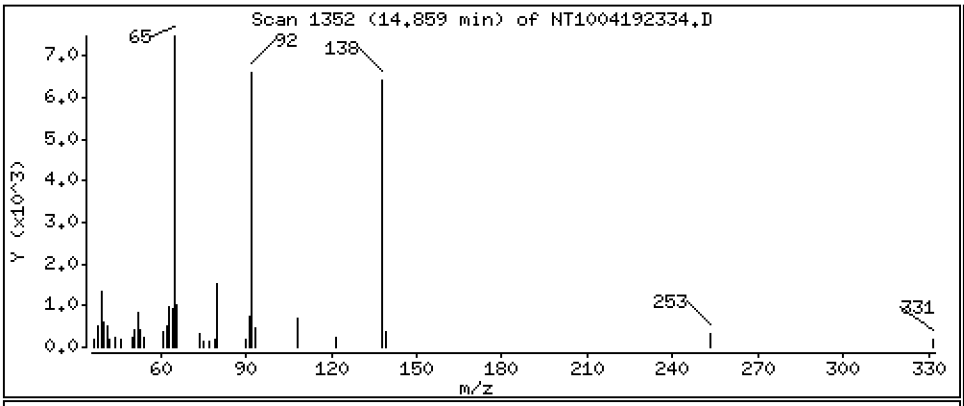
Operator: VTS

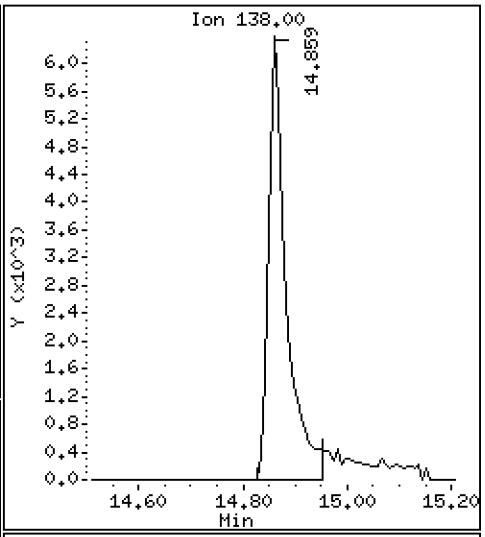
Column phase: ZB-5msi

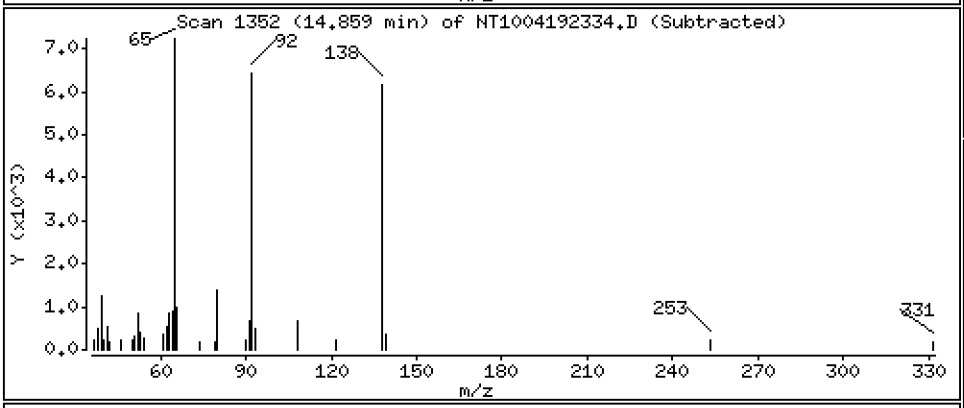
Column diameter: 0.25

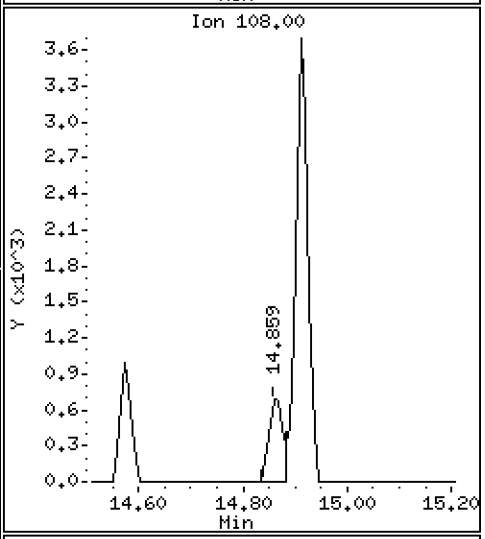
43 3-Nitroaniline

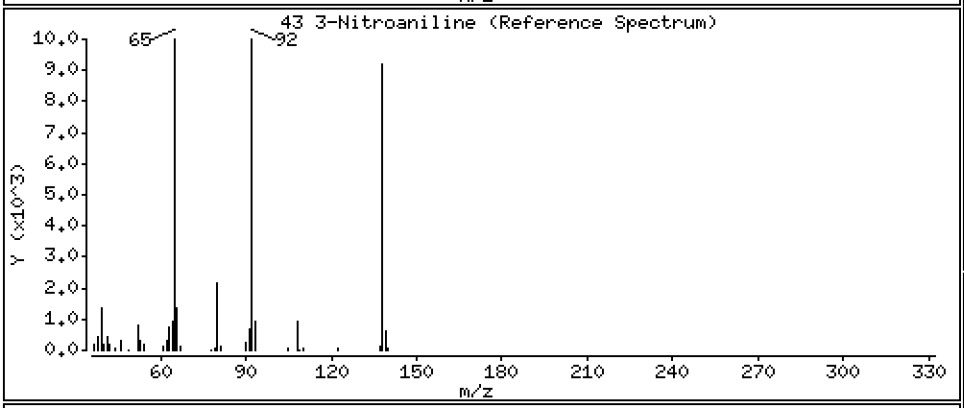
Concentration: 0.6796 ug/mL

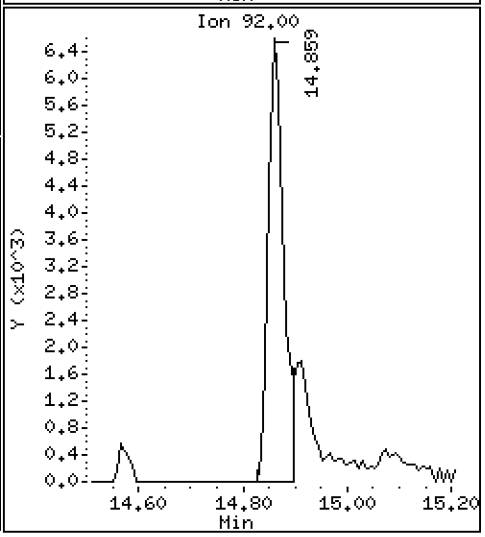


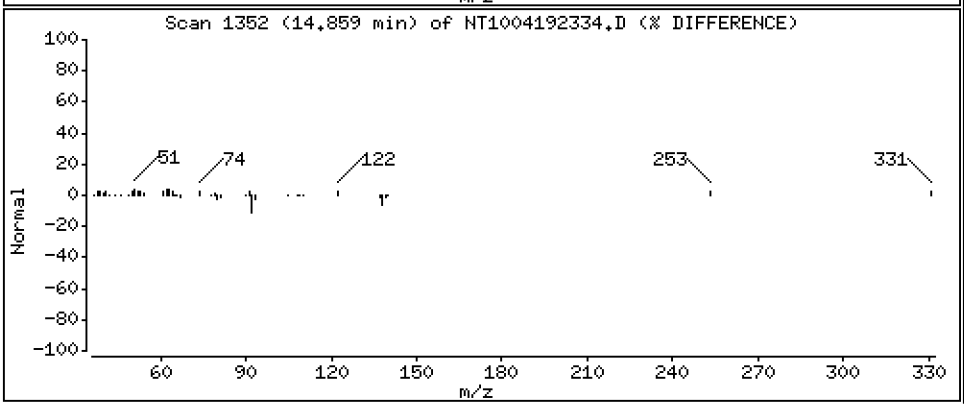












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

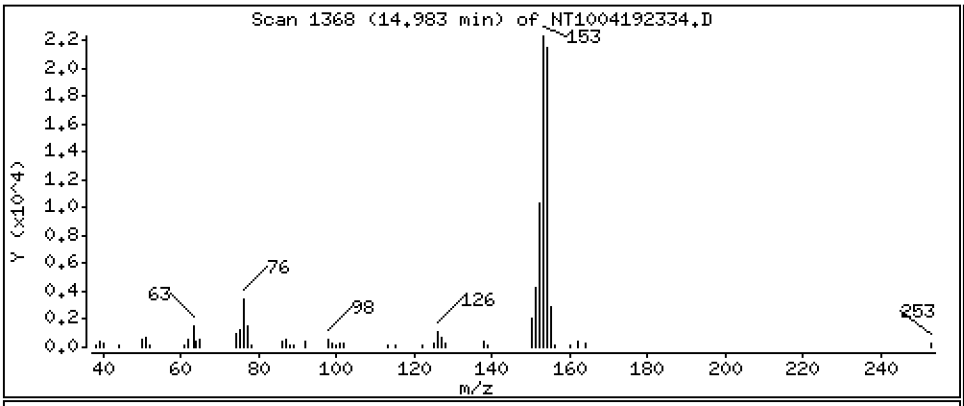
Operator: VTS

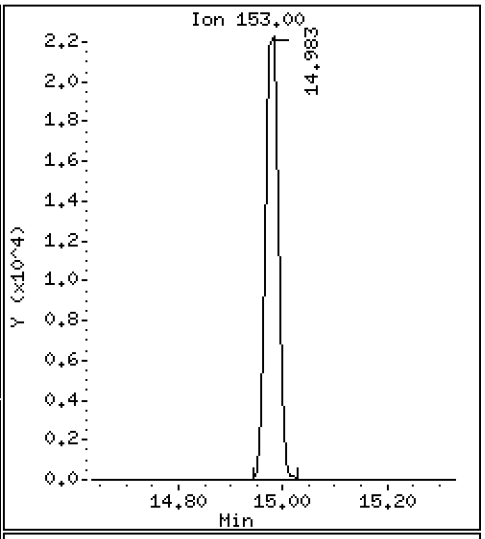
Column phase: ZB-5msi

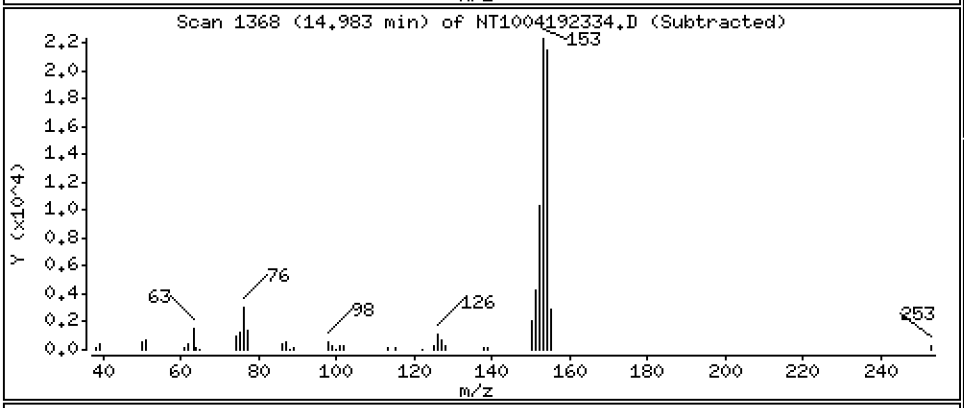
Column diameter: 0.25

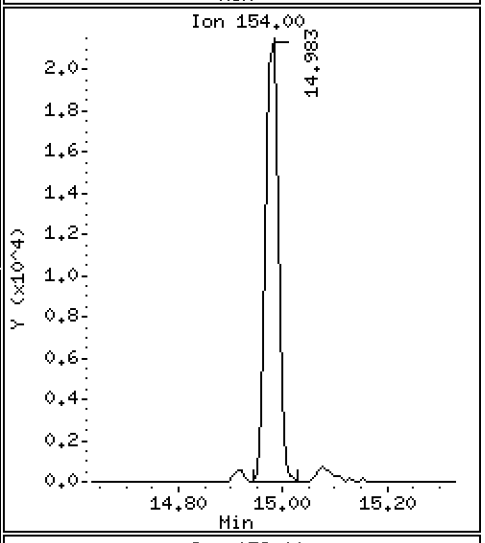
44 Acenaphthene

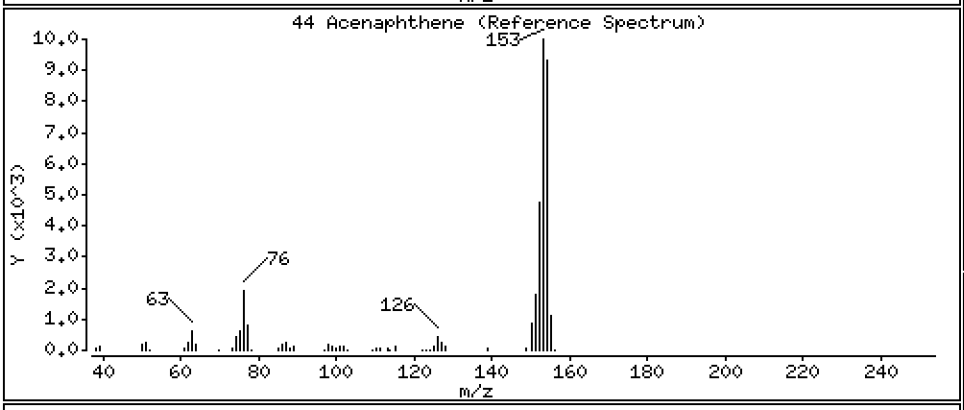
Concentration: 0.4369 ug/mL

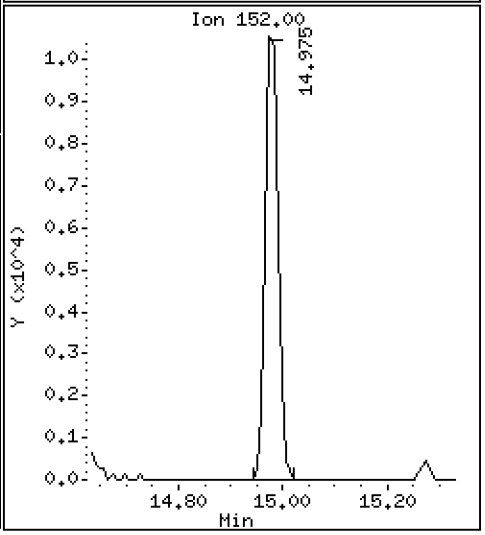


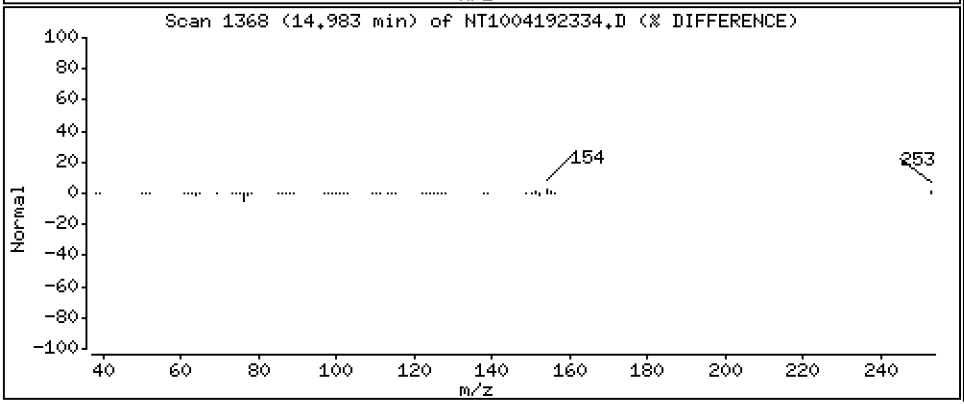












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

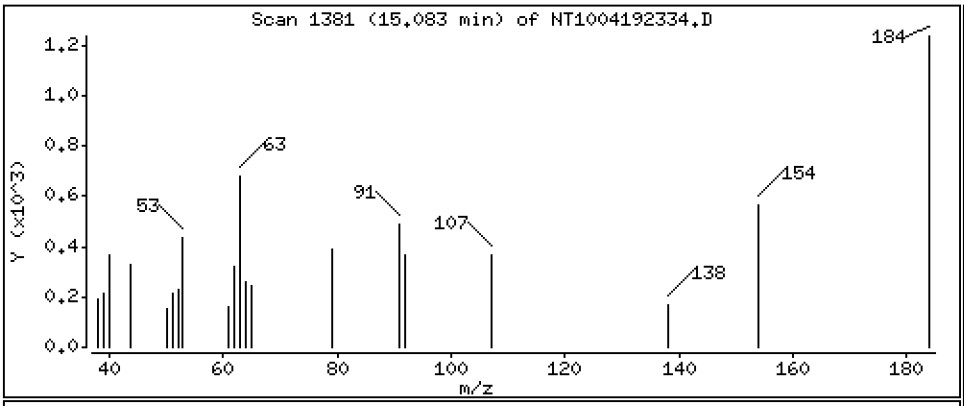
Operator: VTS

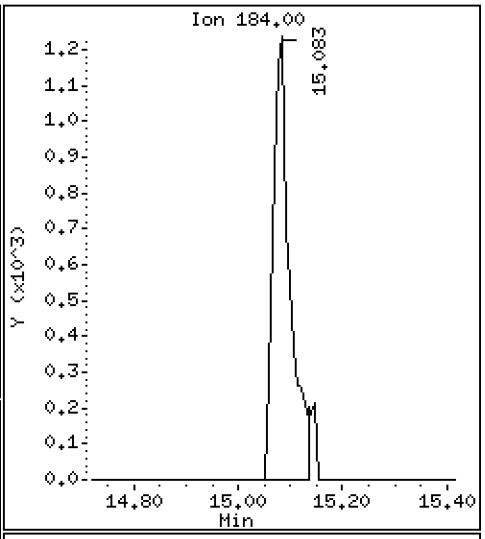
Column phase: ZB-5msi

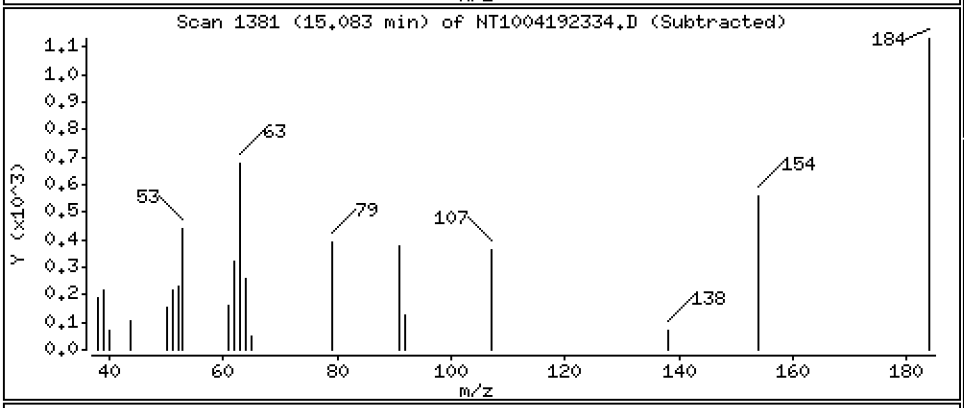
Column diameter: 0.25

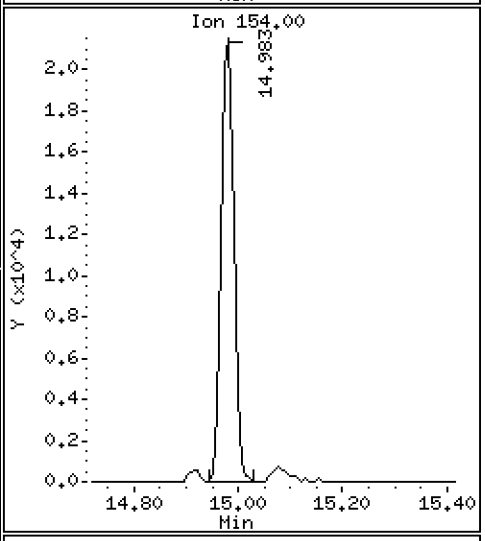
45 2,4-Dinitrophenol

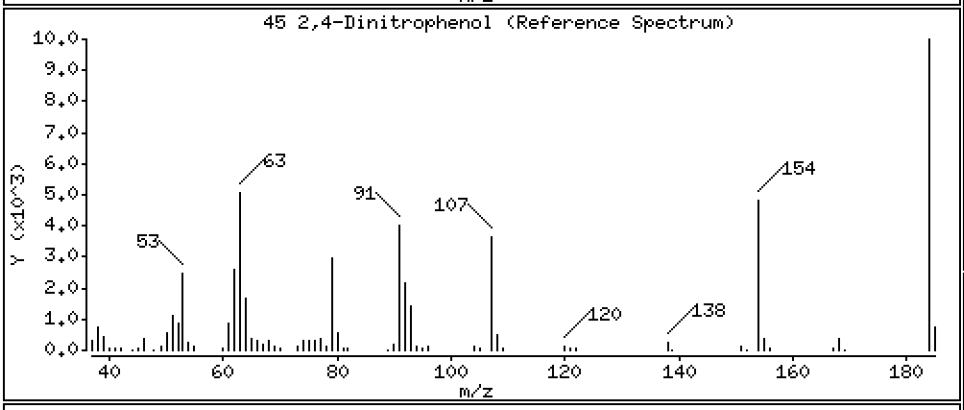
Concentration: 0.2451 ug/mL

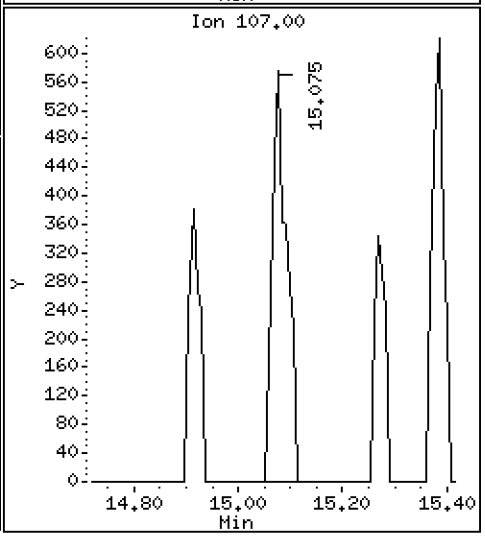


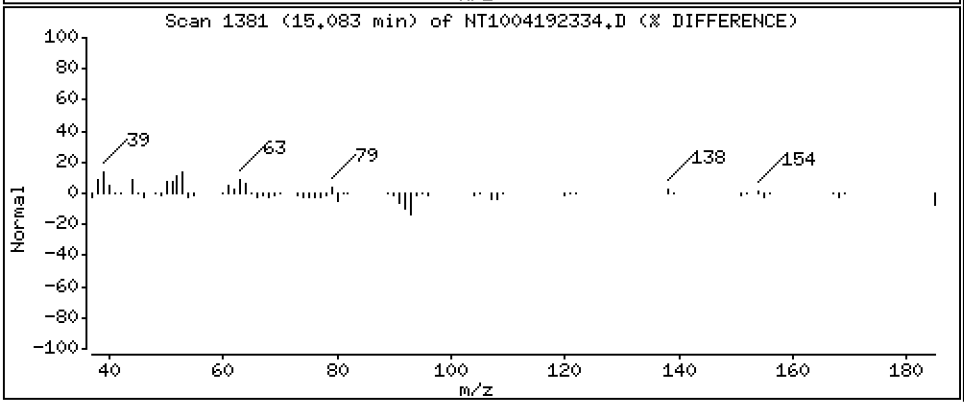












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

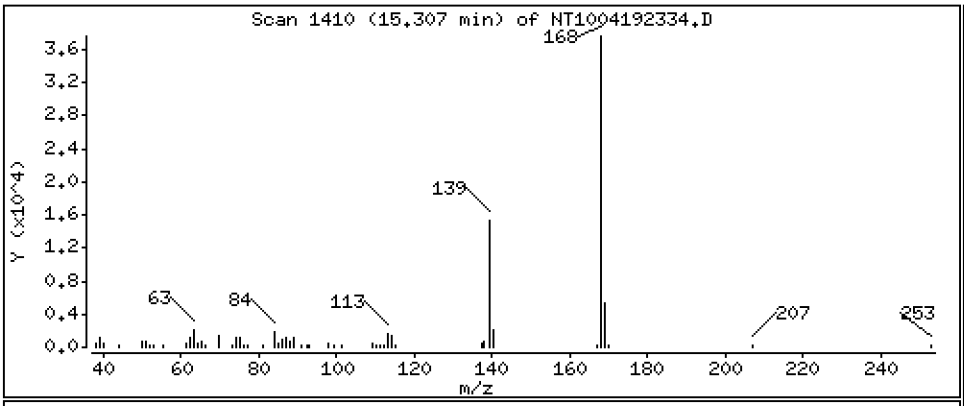
Operator: VTS

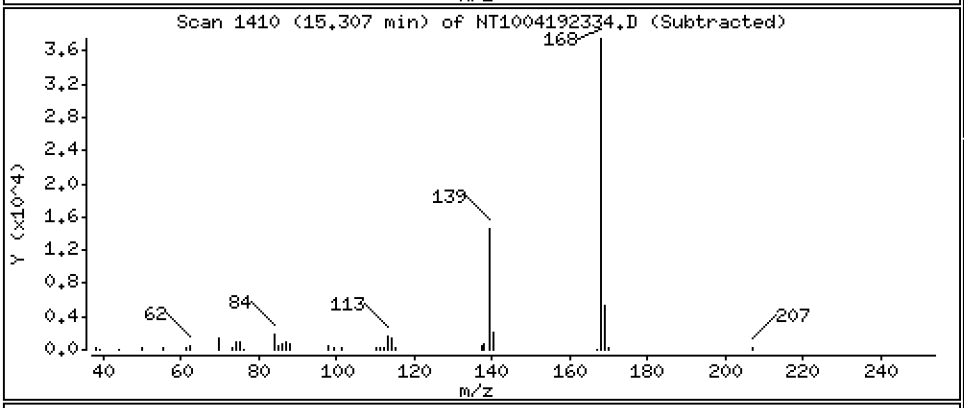
Column phase: ZB-5msi

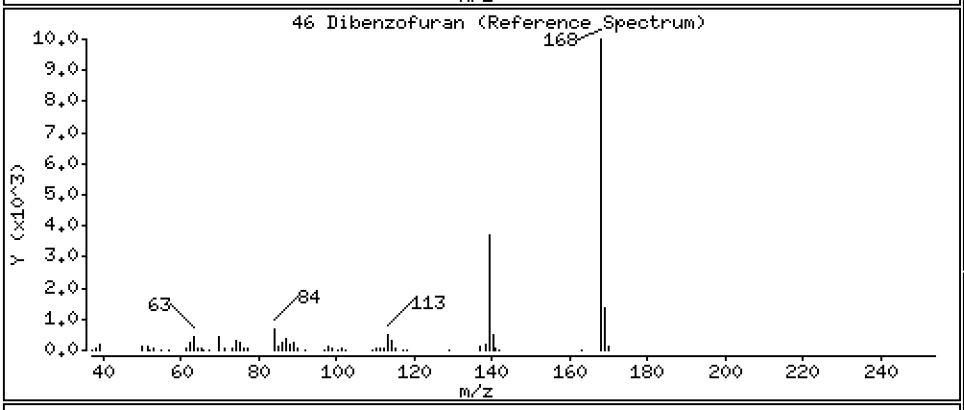
Column diameter: 0.25

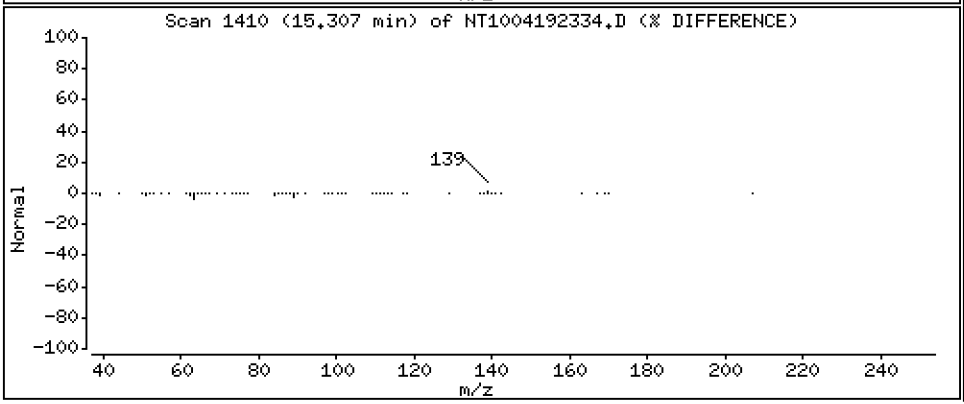
46 Dibenzofuran

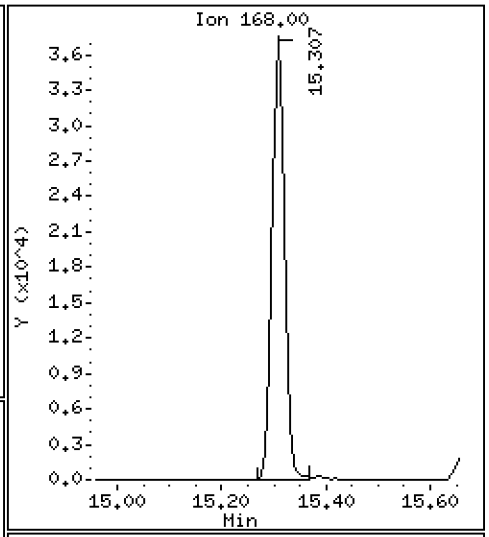
Concentration: 0.4799 ug/mL

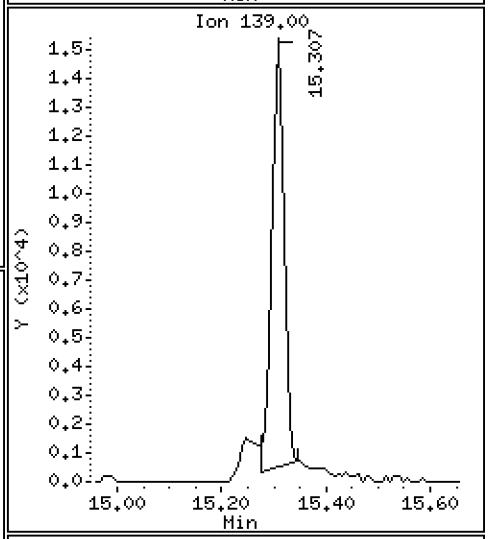


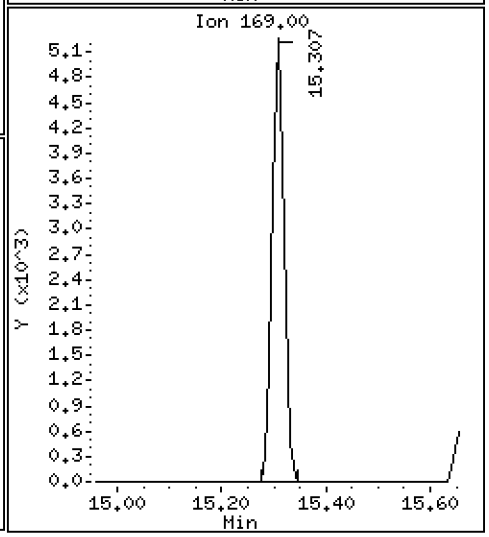












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

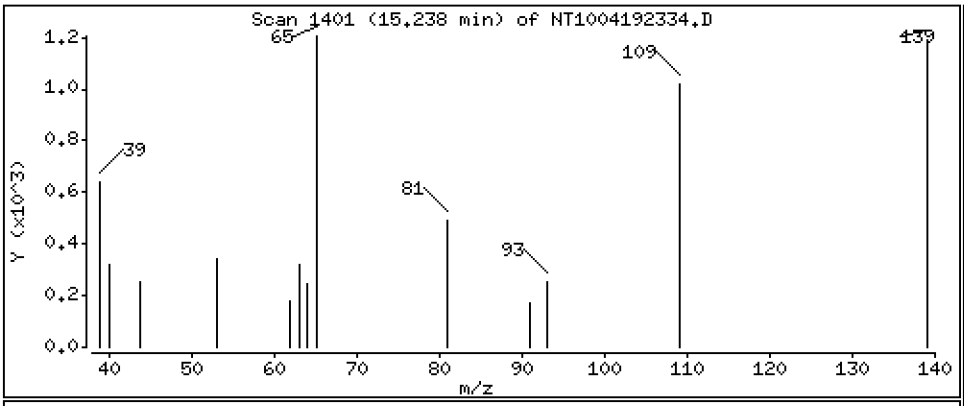
Operator: VTS

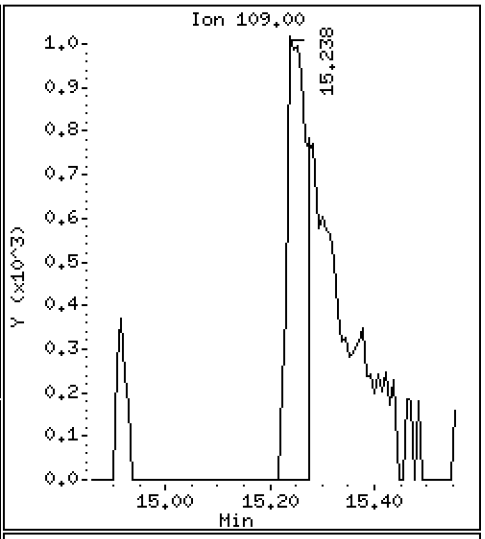
Column phase: ZB-5msi

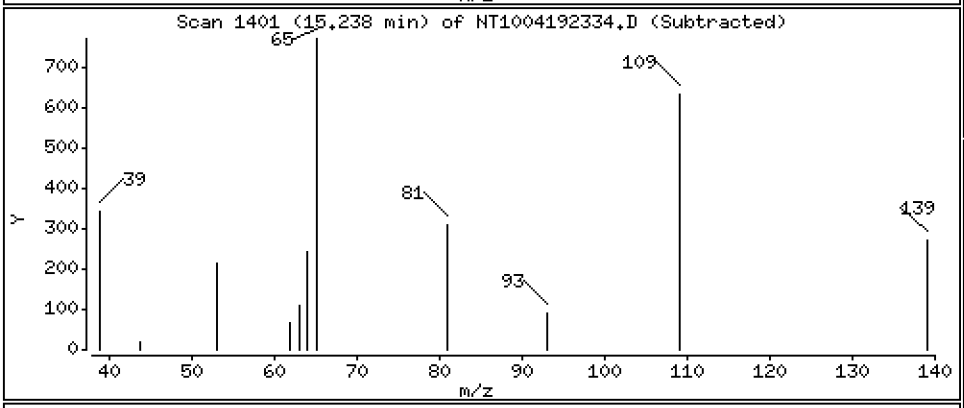
Column diameter: 0.25

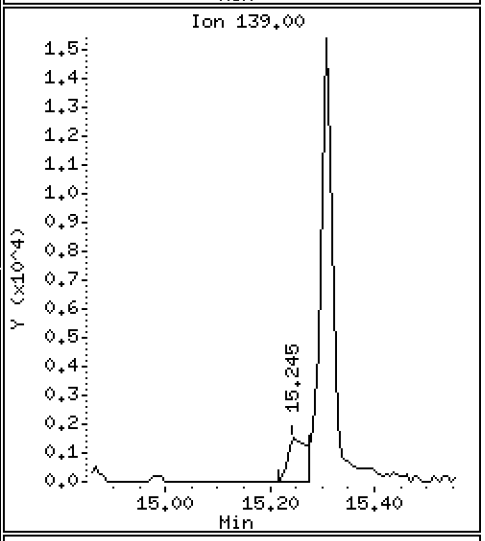
47 4-Nitrophenol

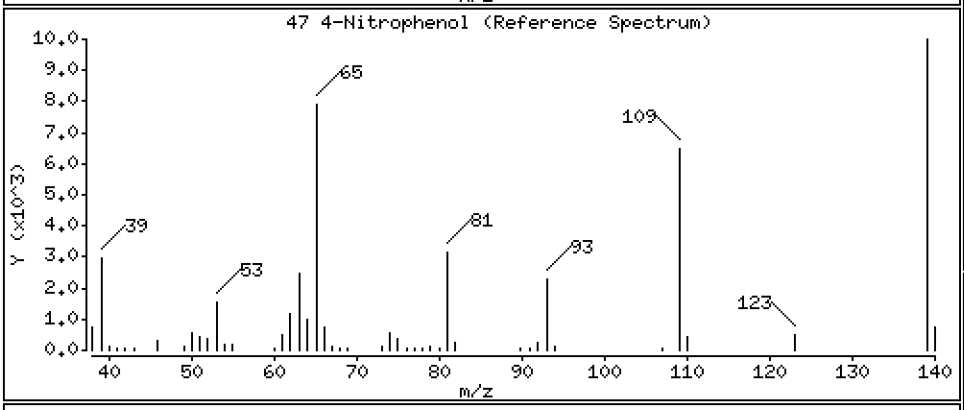
Concentration: 0.2095 ug/mL

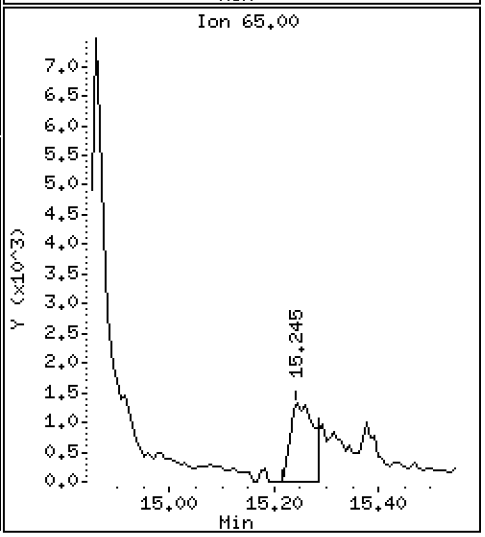


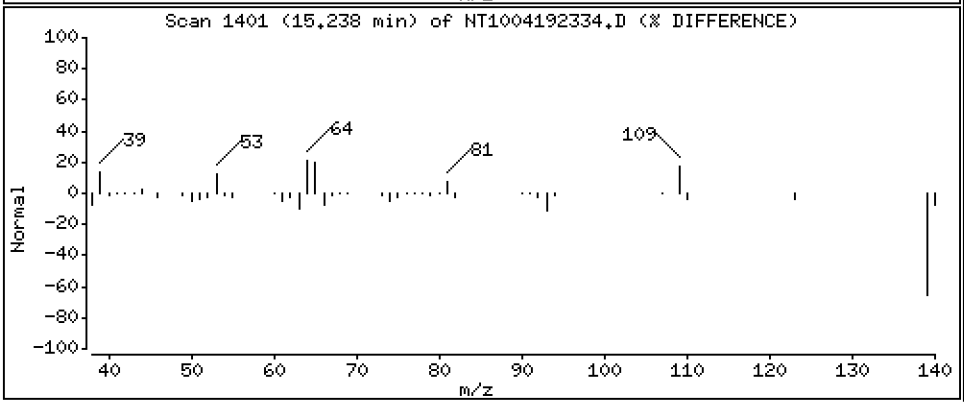












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192334.D

Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

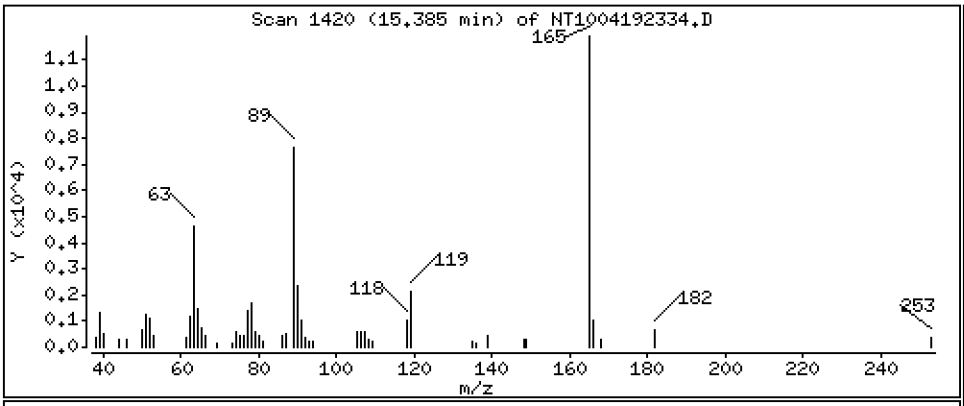
Operator: VTS

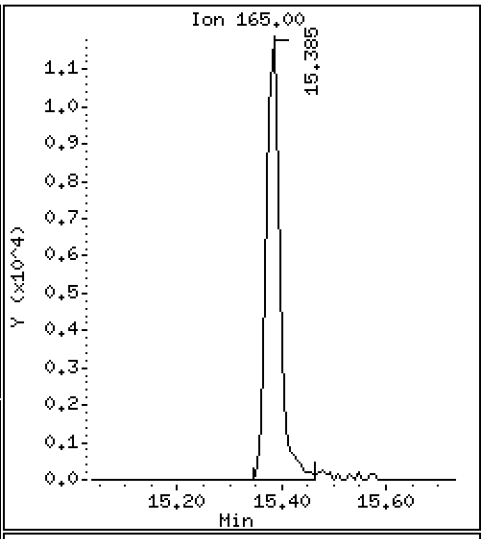
Column phase: ZB-5msi

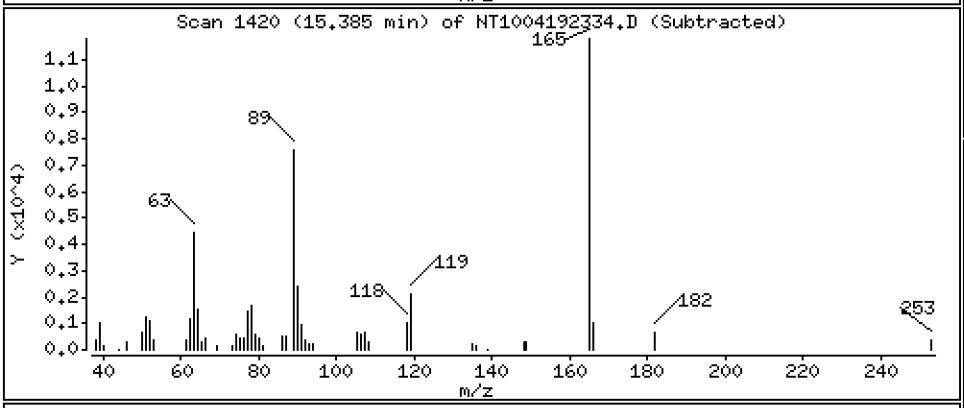
Column diameter: 0.25

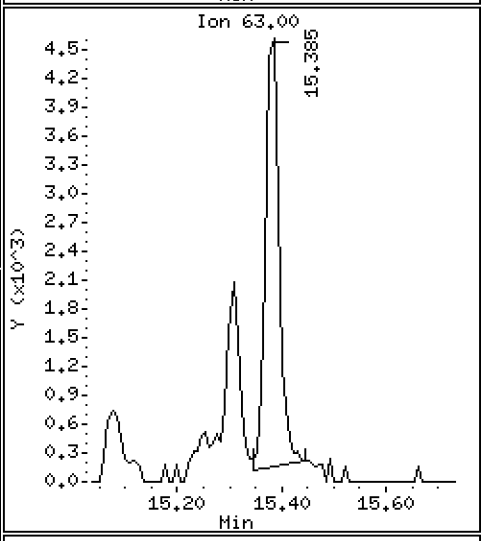
48 2,4-Dinitrotoluene

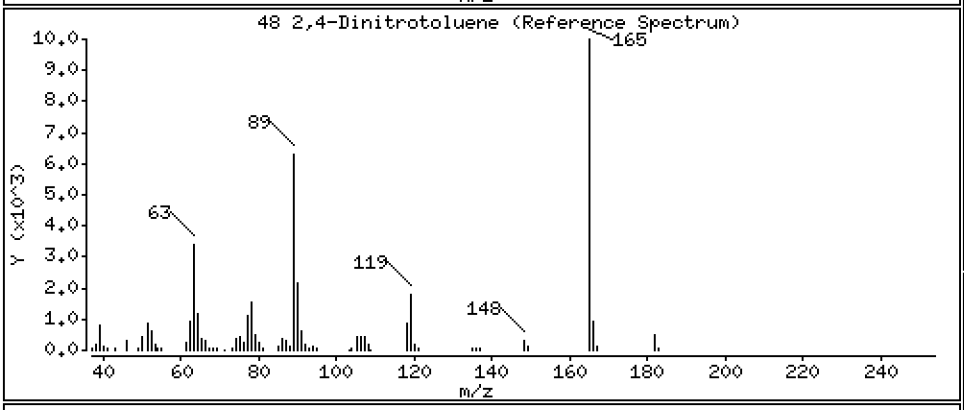
Concentration: 0.7193 ug/mL

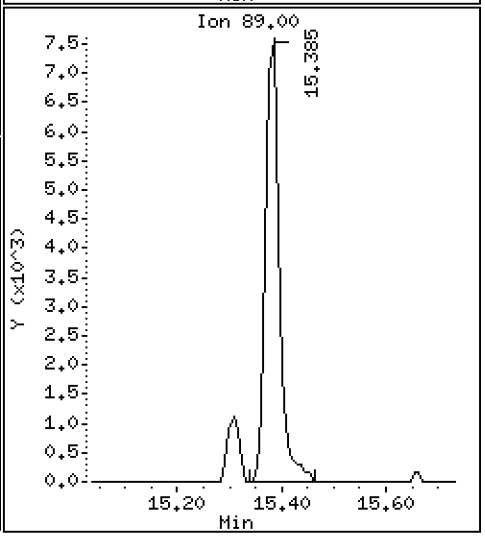


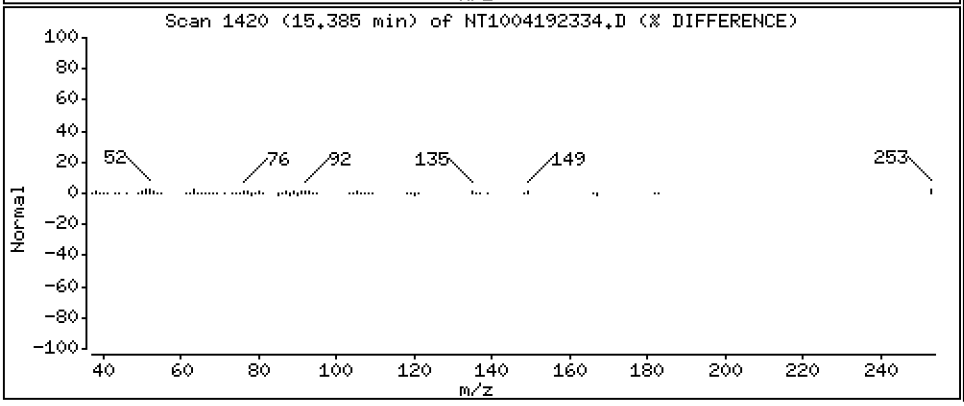












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

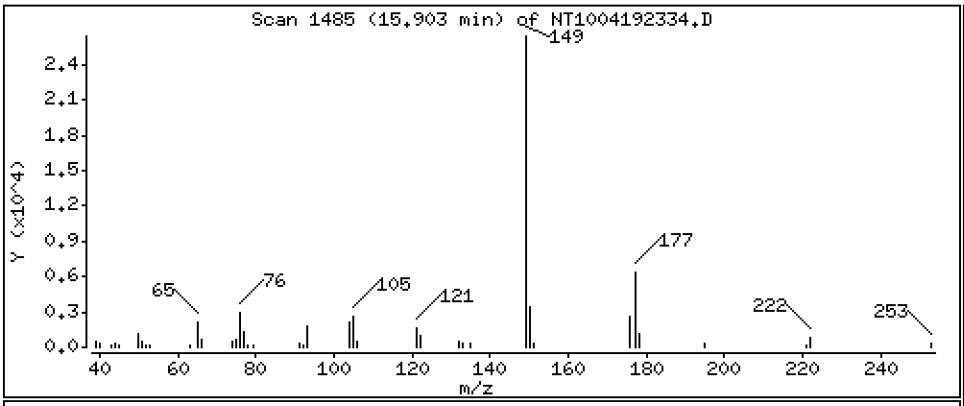
Operator: VTS

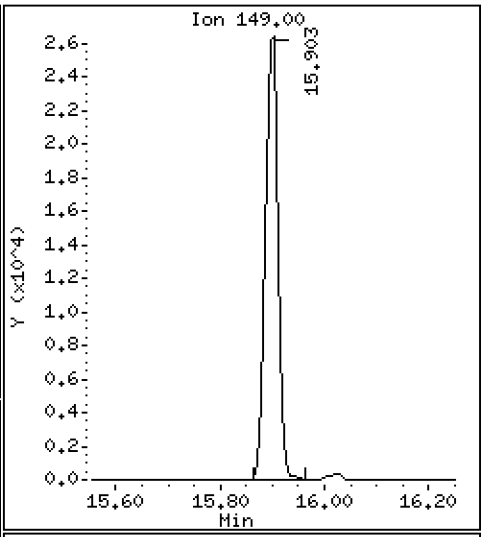
Column phase: ZB-5msi

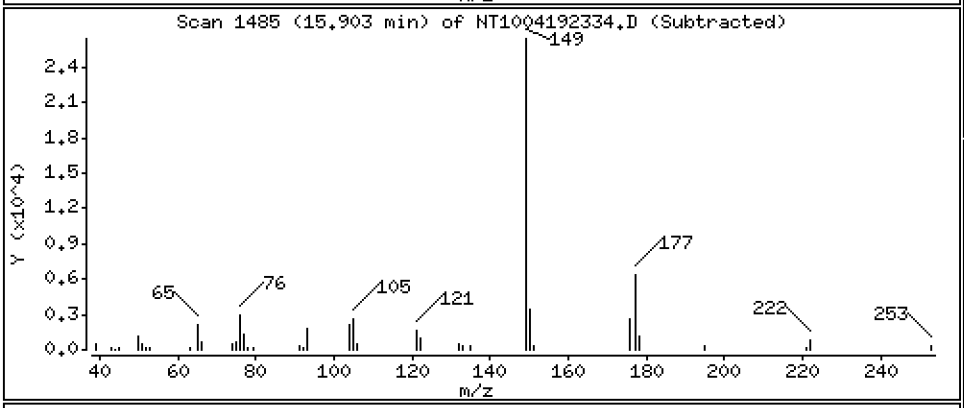
Column diameter: 0.25

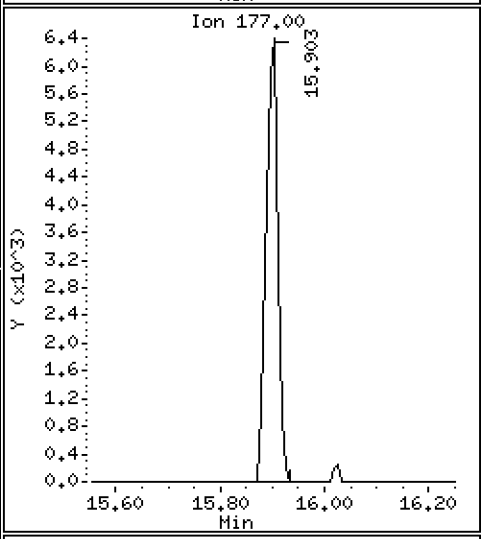
50 Diethylphthalate

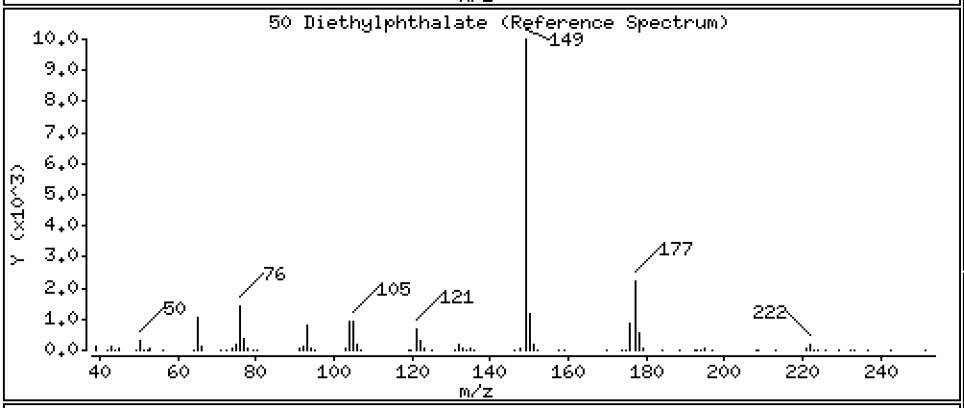
Concentration: 0.5811 ug/mL

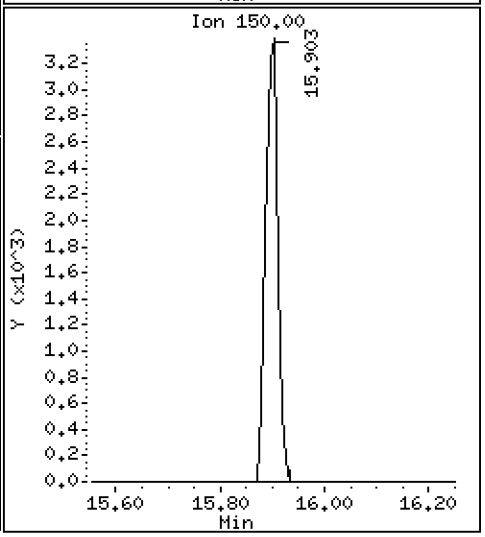


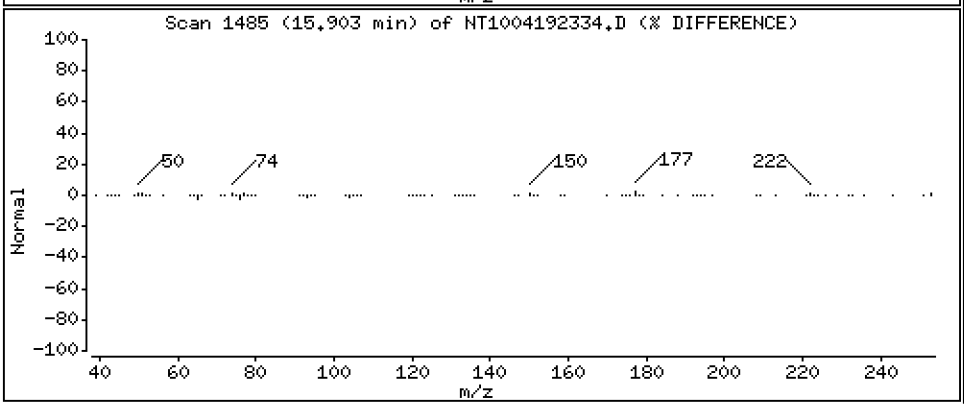












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

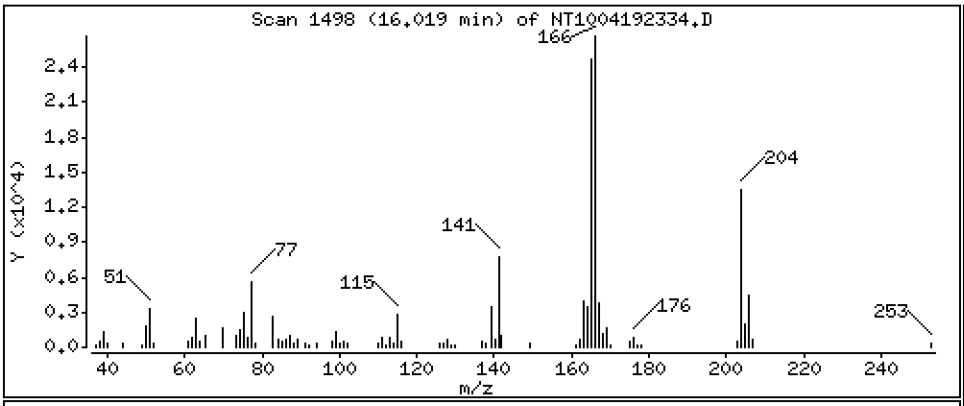
Operator: VTS

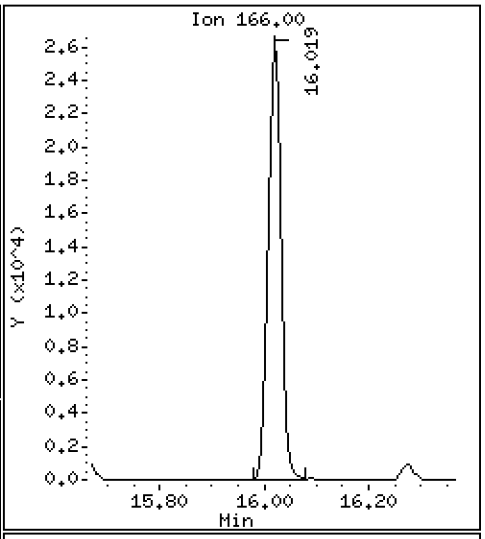
Column phase: ZB-5msi

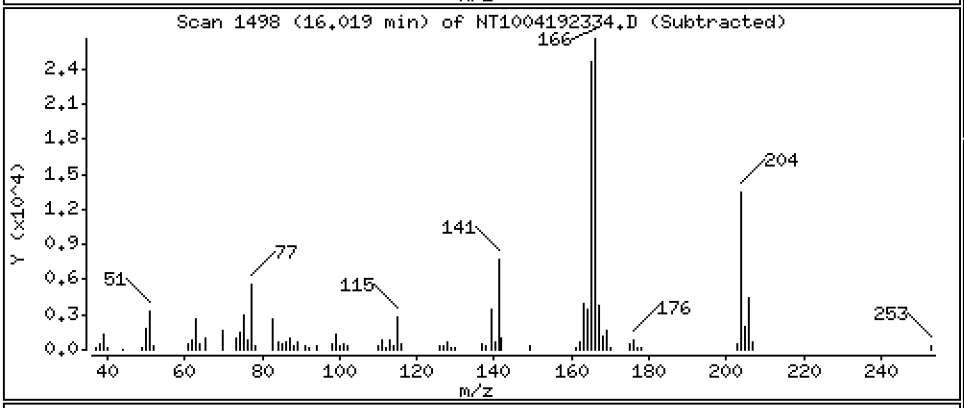
Column diameter: 0.25

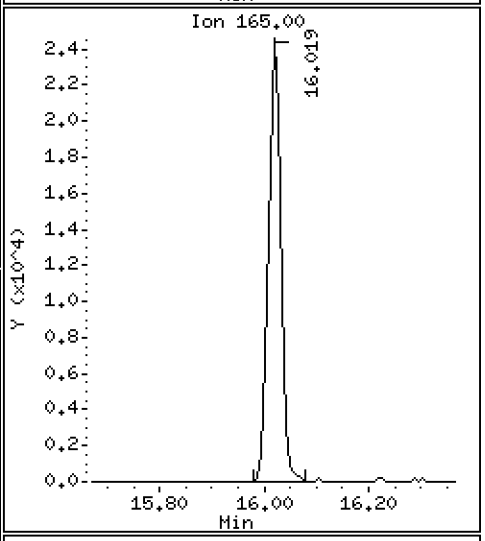
49 Fluorene

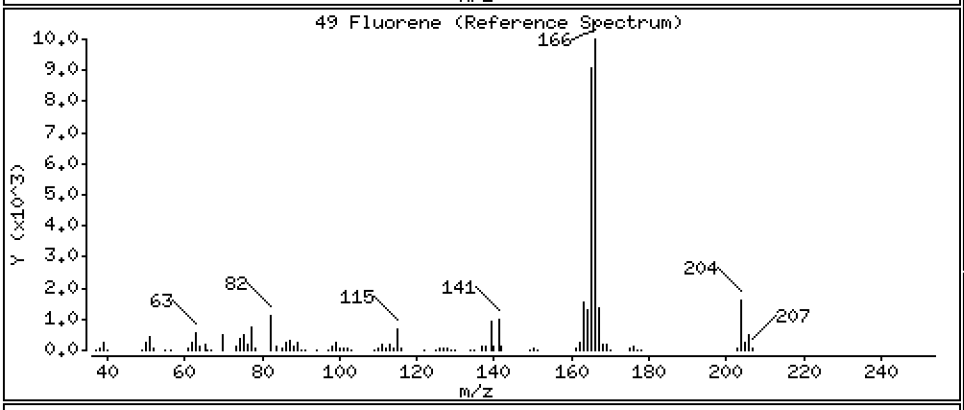
Concentration: 0.4603 ug/mL

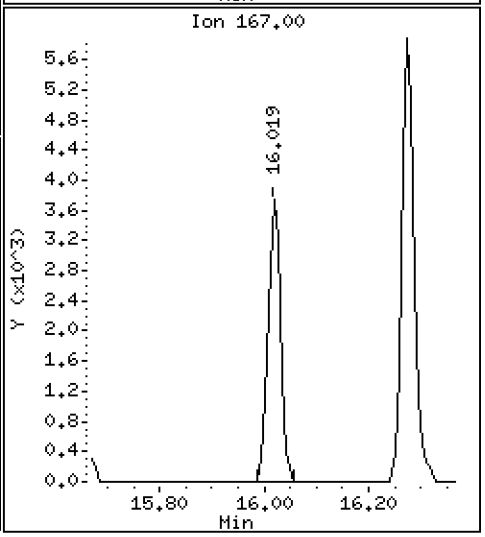


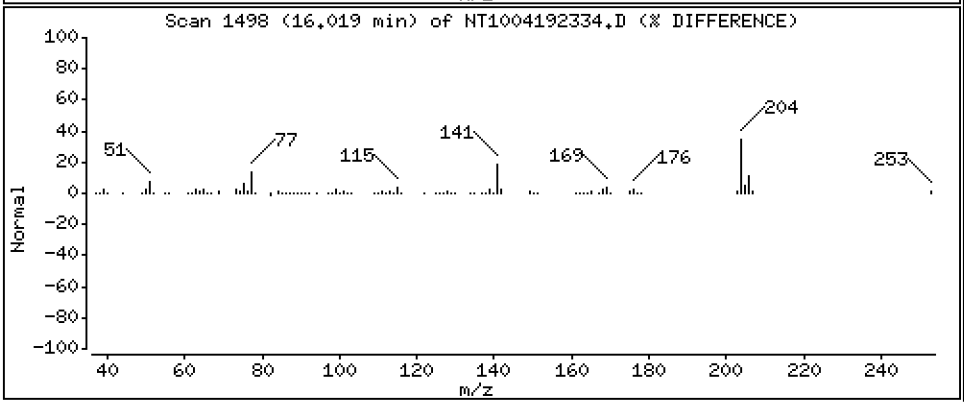












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

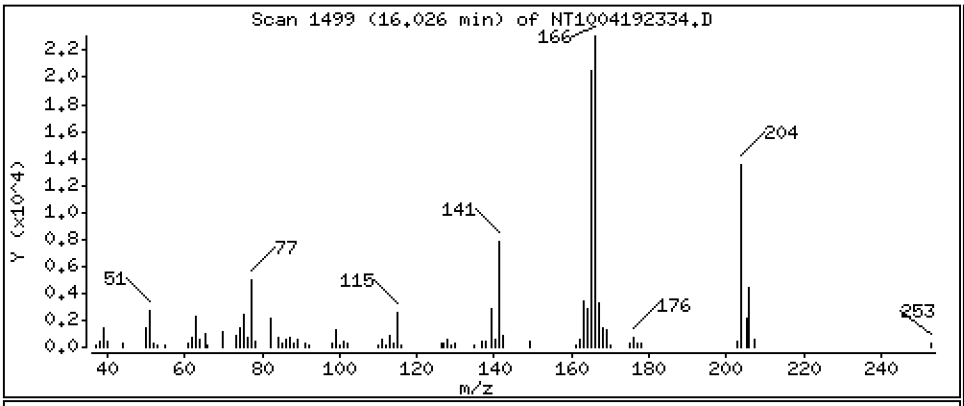
Operator: VTS

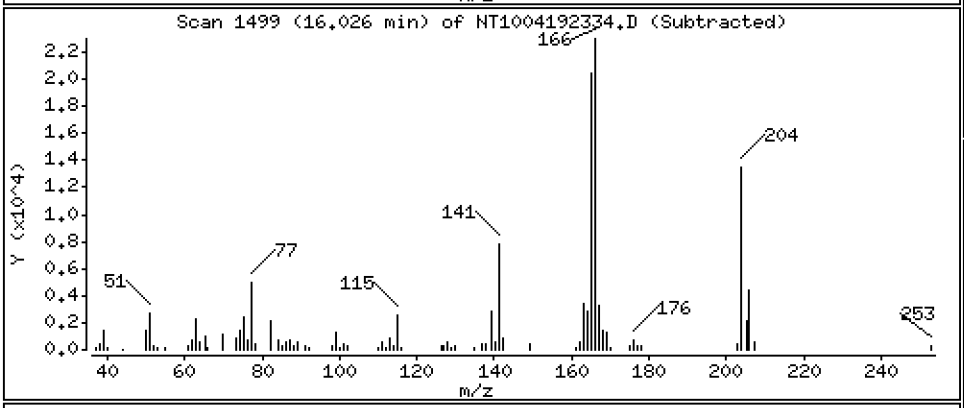
Column phase: ZB-5msi

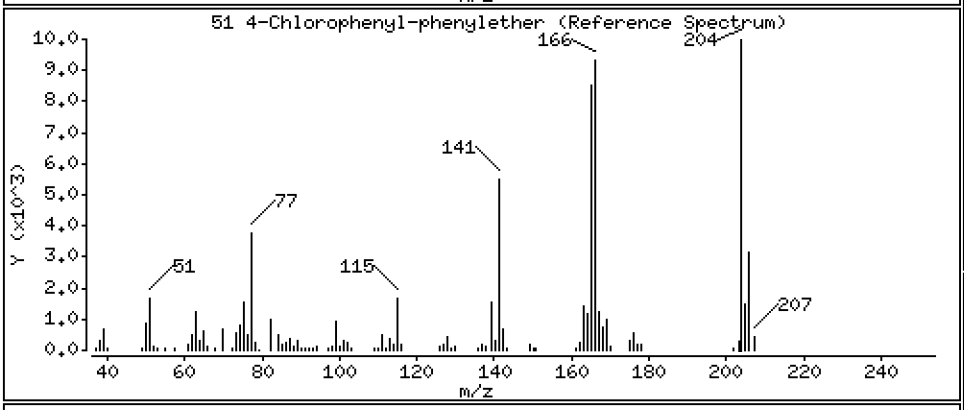
Column diameter: 0.25

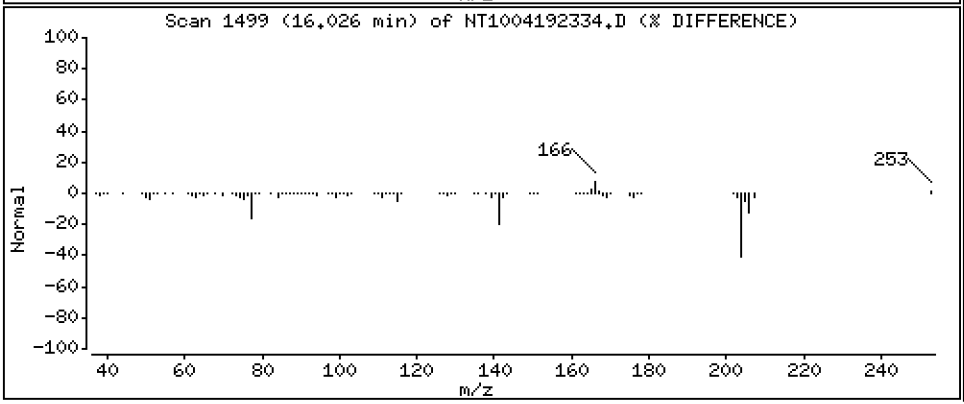
51 4-Chlorophenyl-phenylether

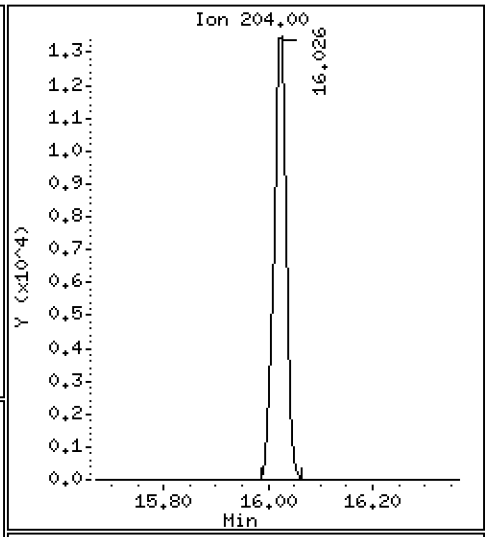
Concentration: 0.4876 ug/mL

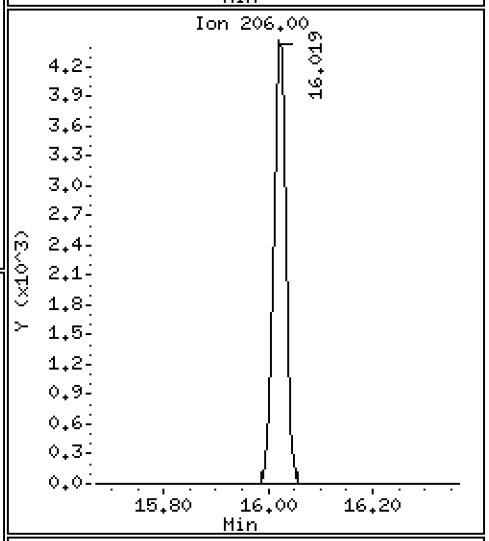


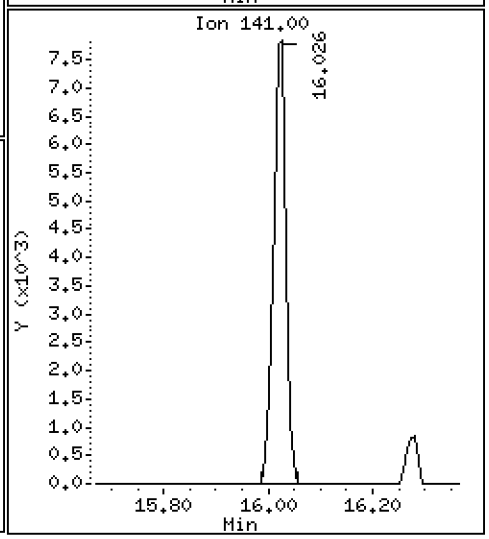












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

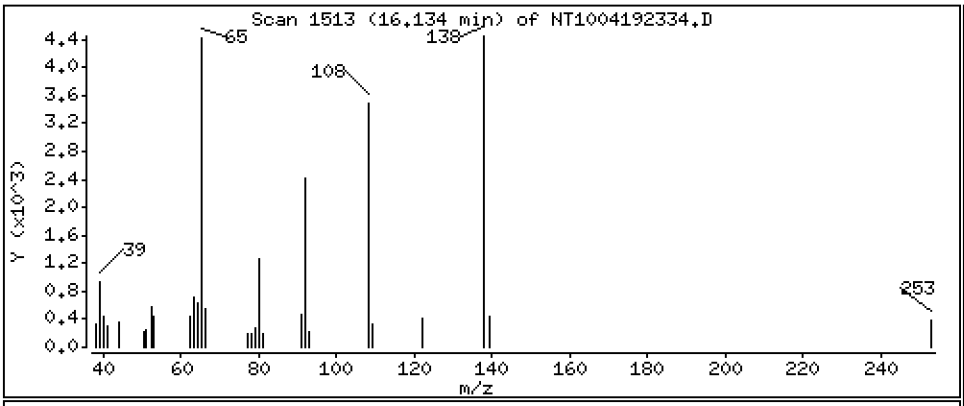
Operator: VTS

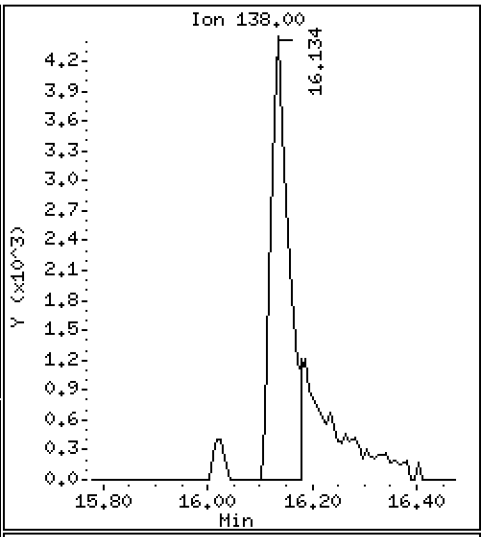
Column phase: ZB-5msi

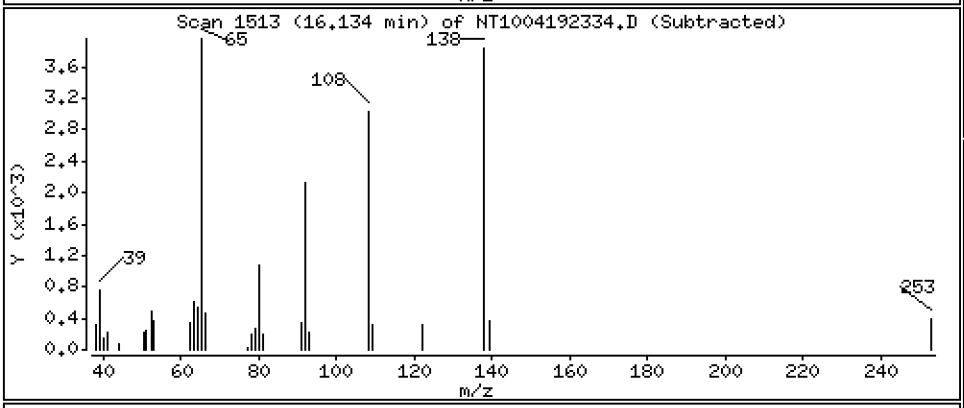
Column diameter: 0.25

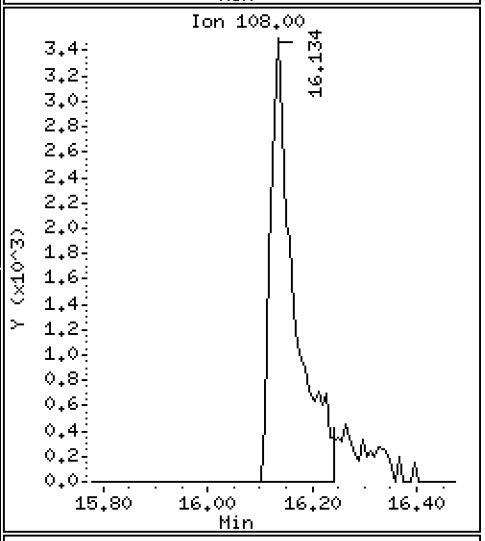
52 4-Nitroaniline

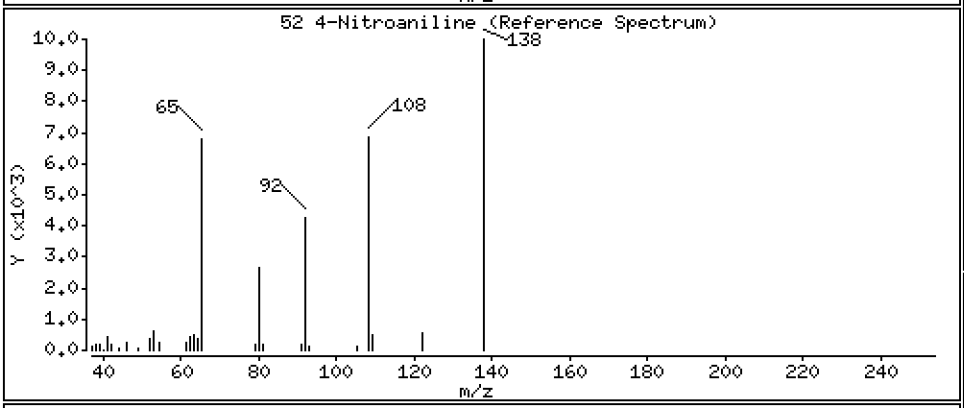
Concentration: 0.5530 ug/mL

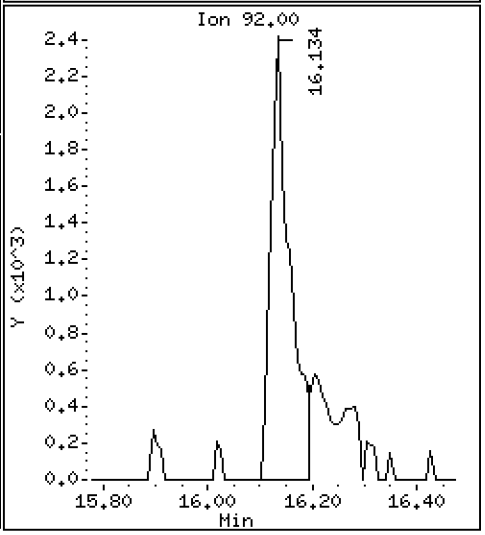


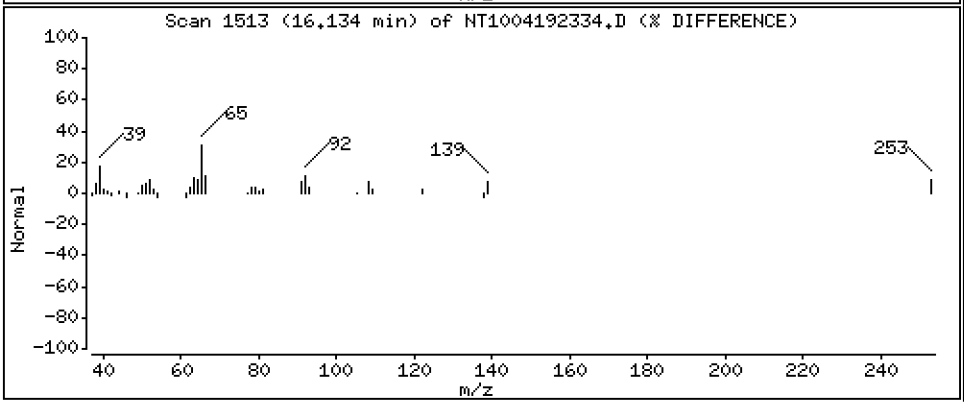












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

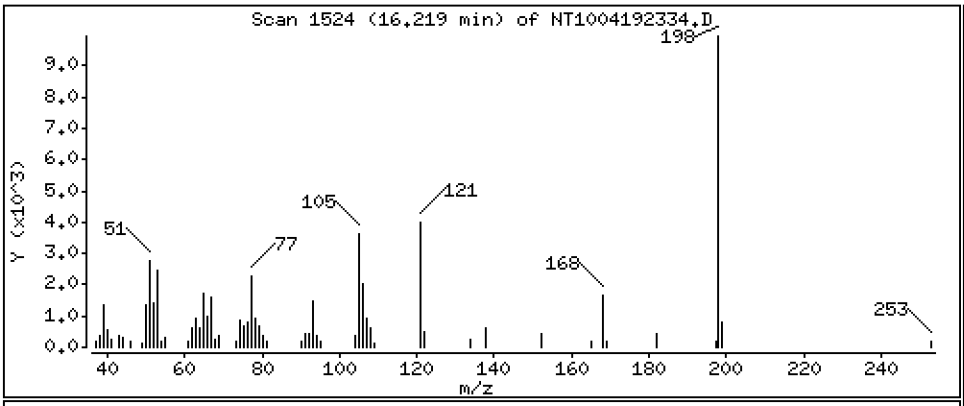
Operator: VTS

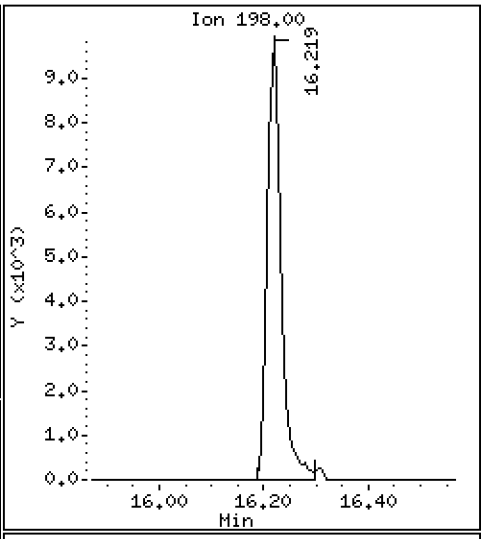
Column phase: ZB-5msi

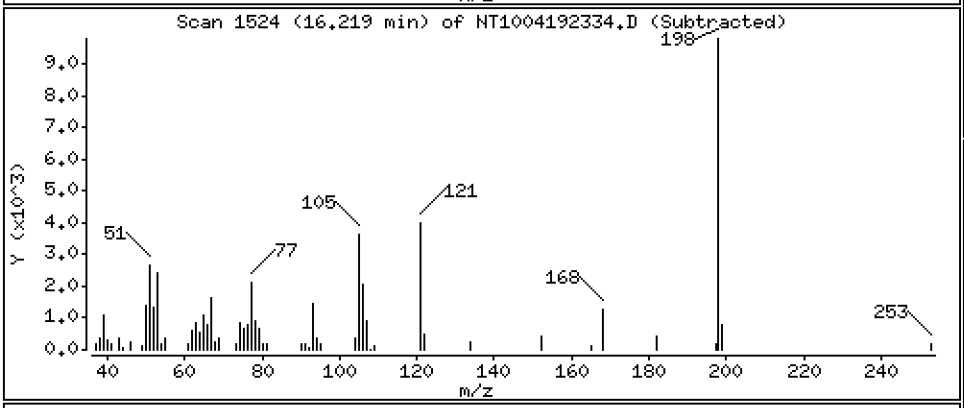
Column diameter: 0.25

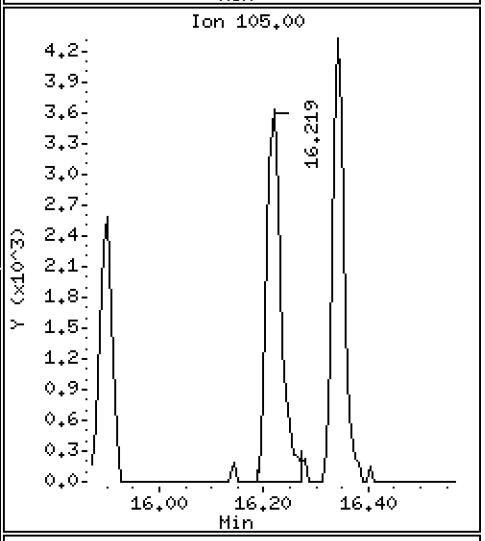
53 4,6-Dinitro-2-methylphenol

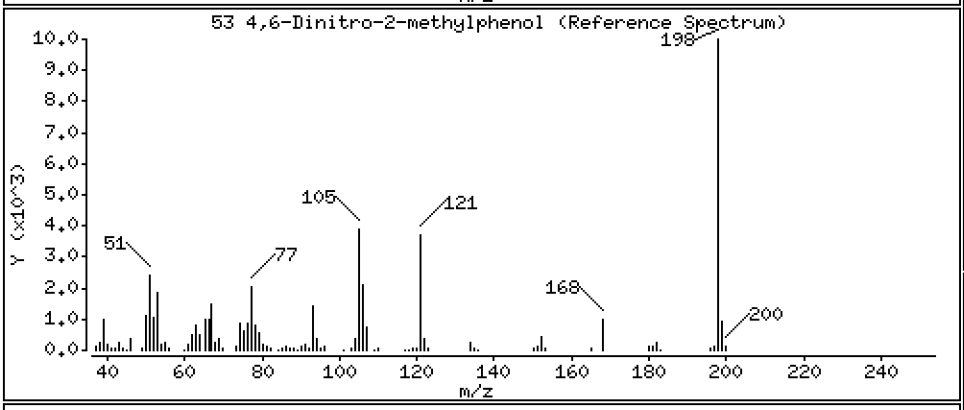
Concentration: 1.301 ug/mL

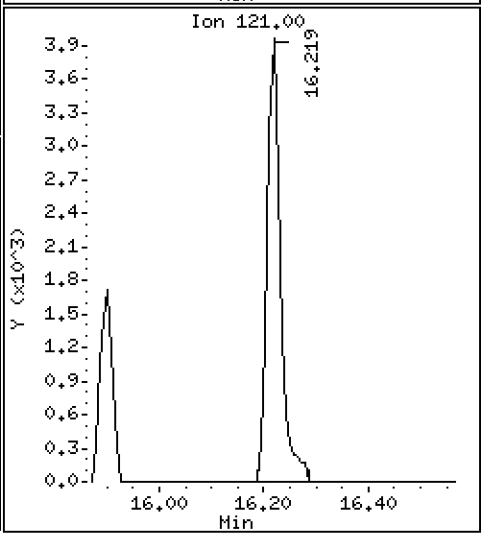


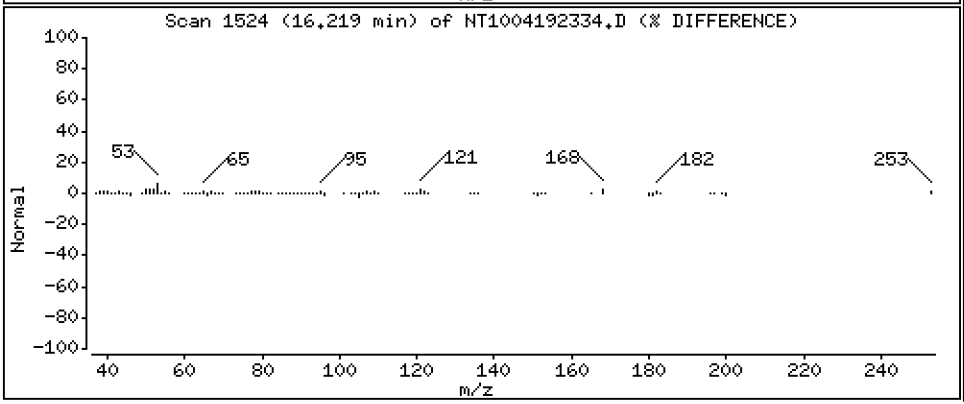












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

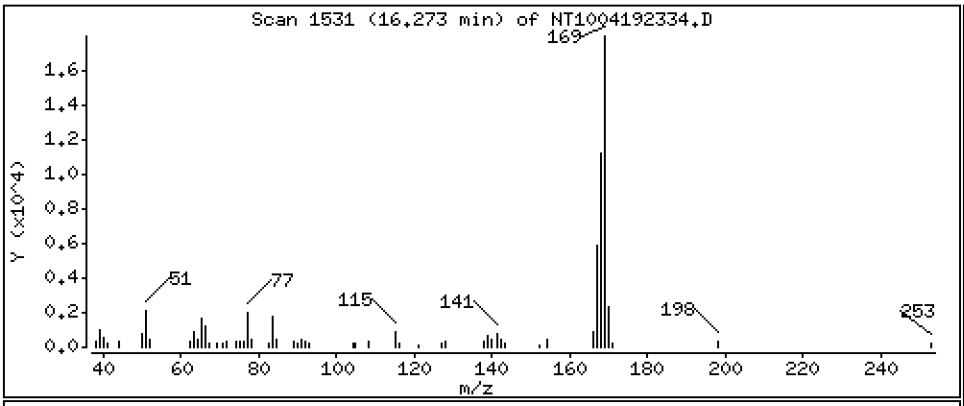
Operator: VTS

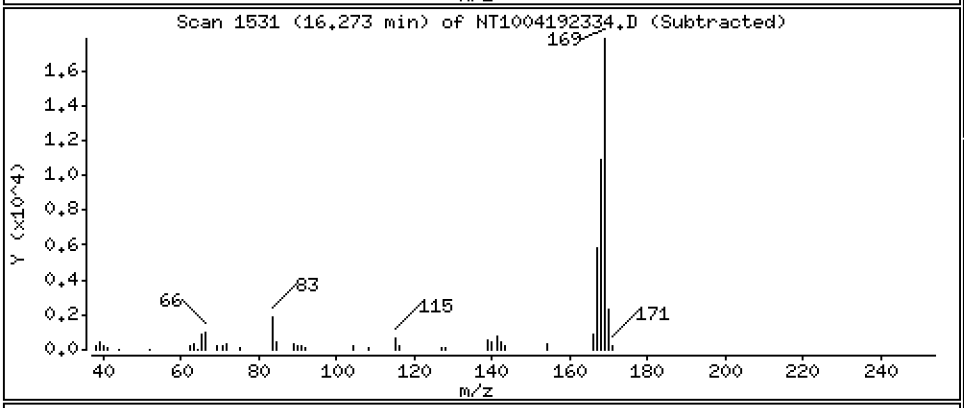
Column phase: ZB-5msi

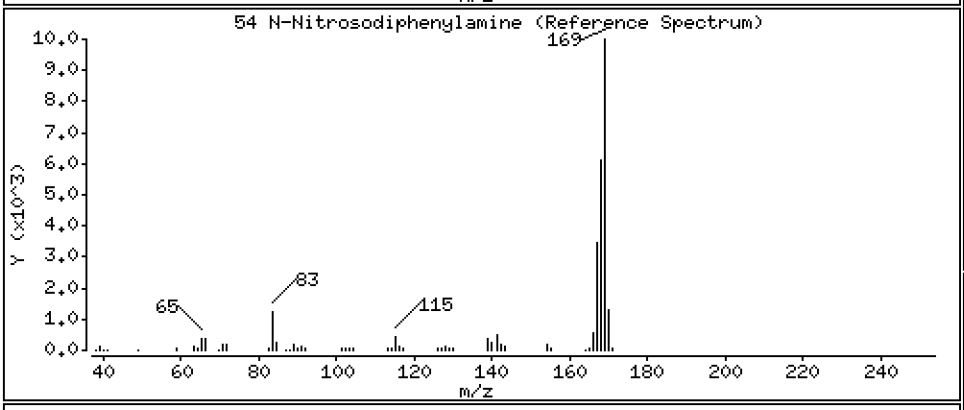
Column diameter: 0.25

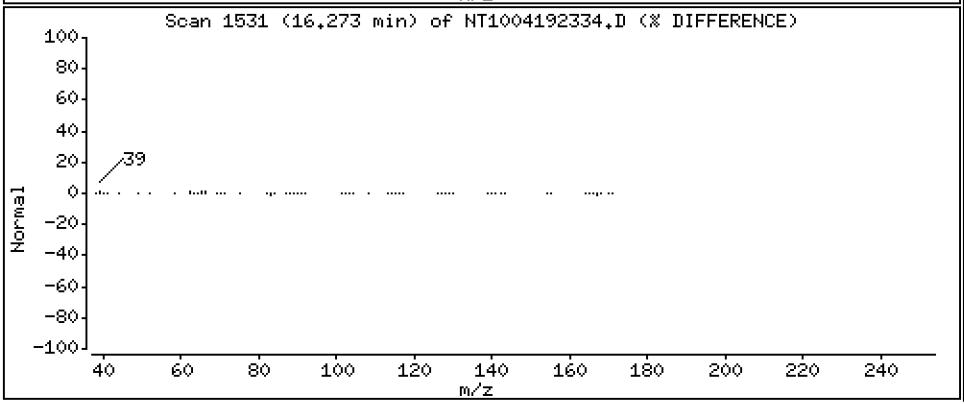
54 N-Nitrosodiphenylamine

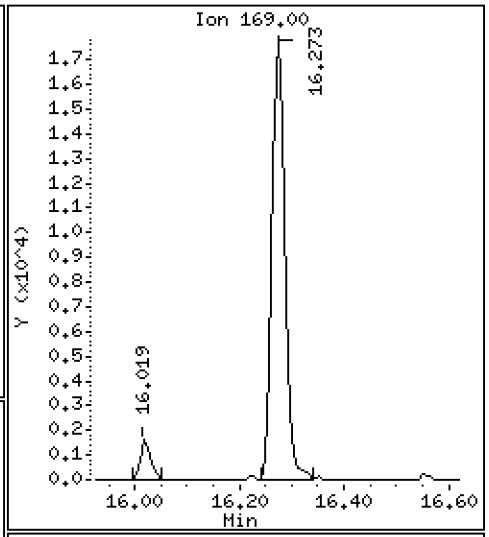
Concentration: 0.4933 ug/mL

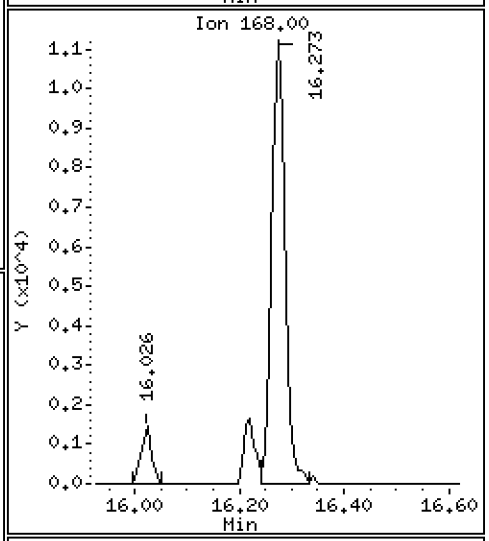


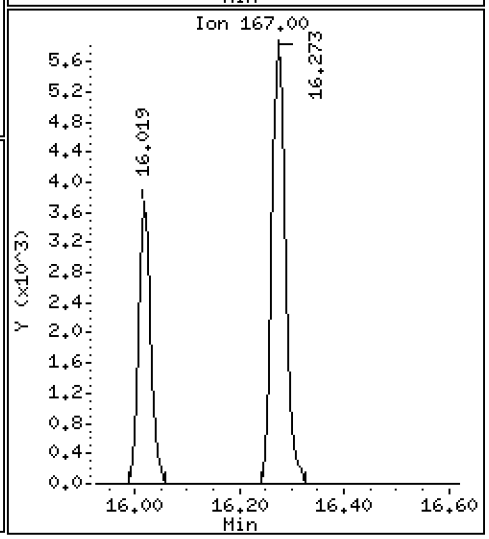












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

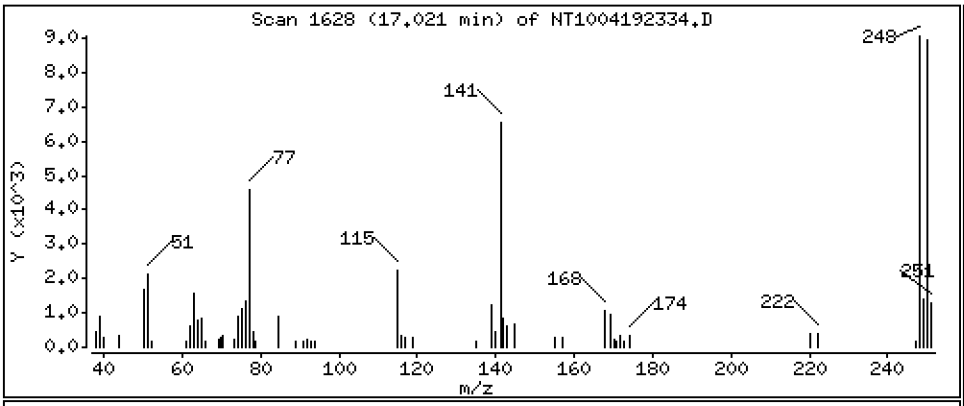
Operator: VTS

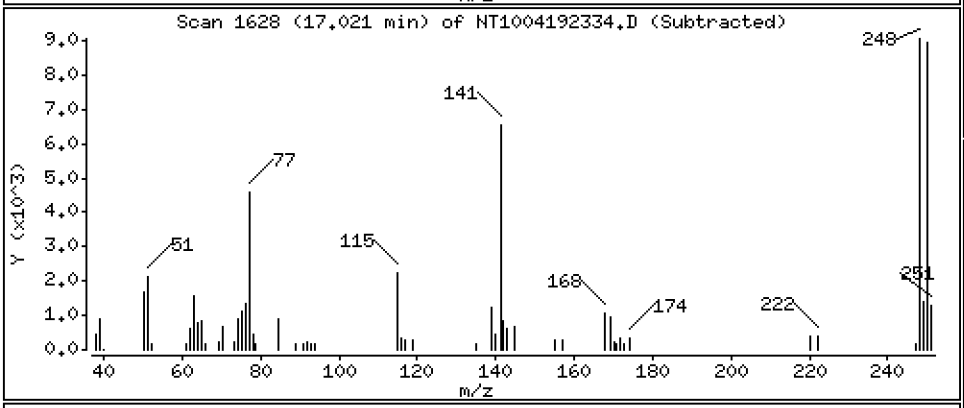
Column phase: ZB-5msi

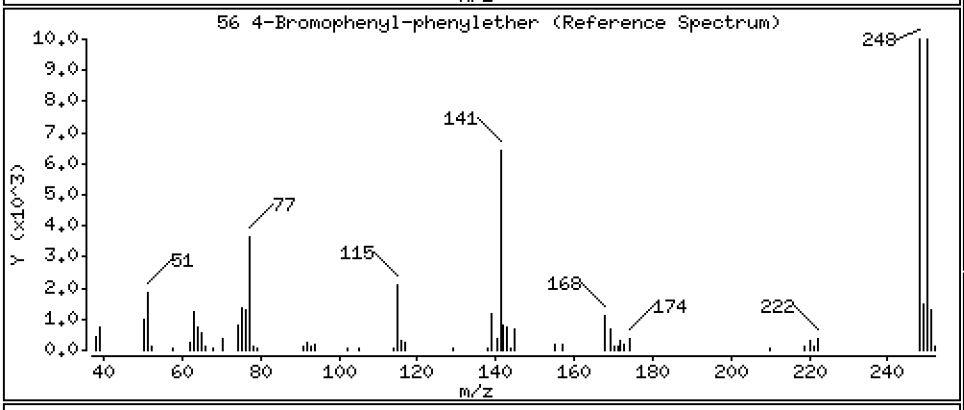
Column diameter: 0.25

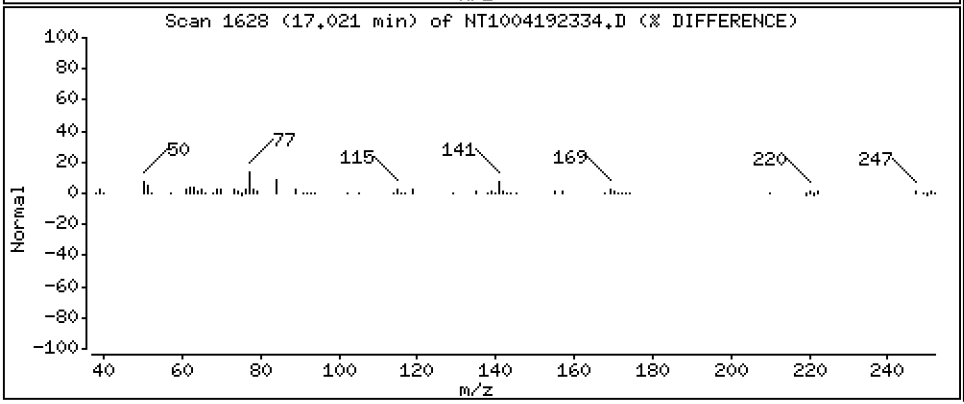
56 4-Bromophenyl-phenylether

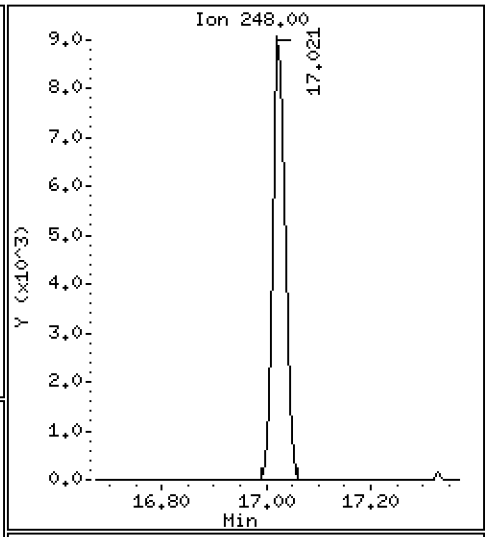
Concentration: 0.5725 ug/mL

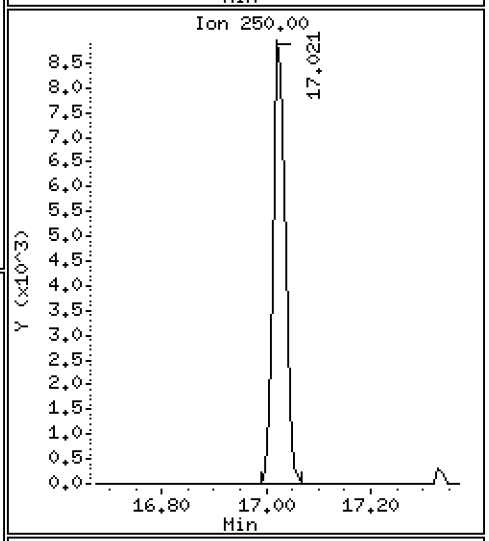


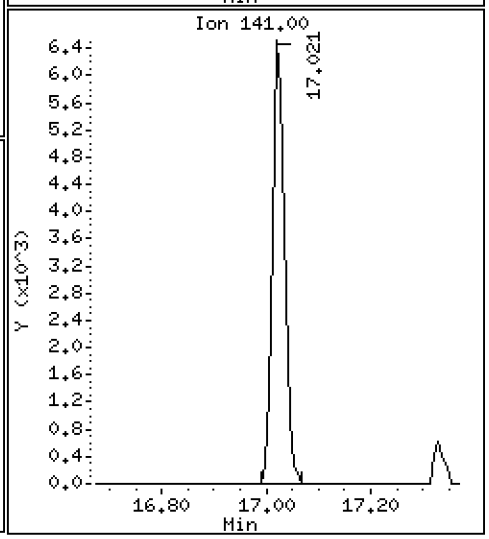












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

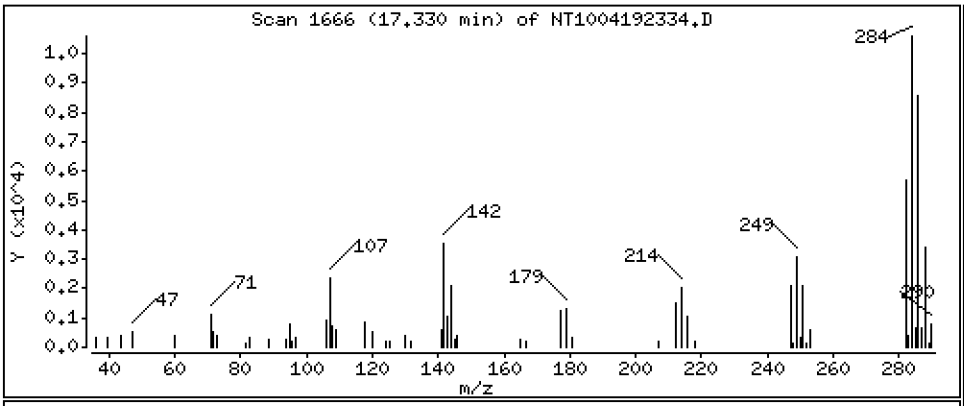
Operator: VTS

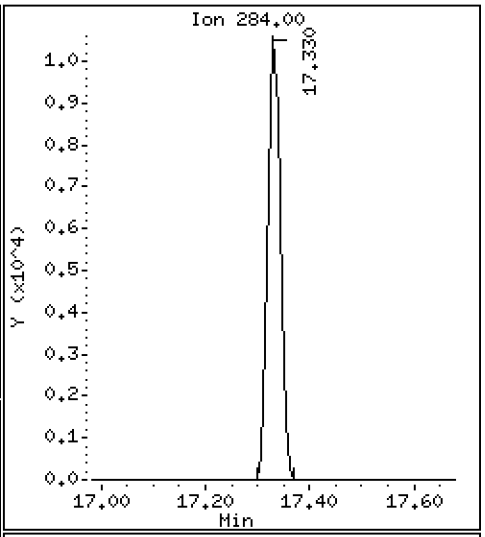
Column phase: ZB-5msi

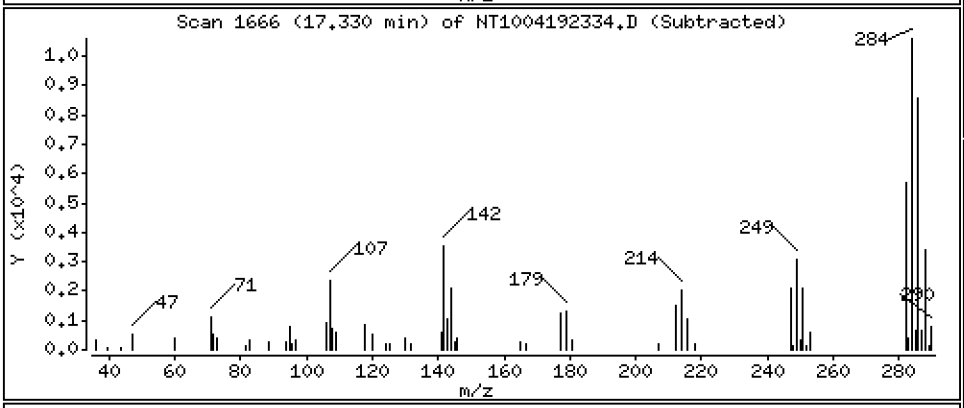
Column diameter: 0.25

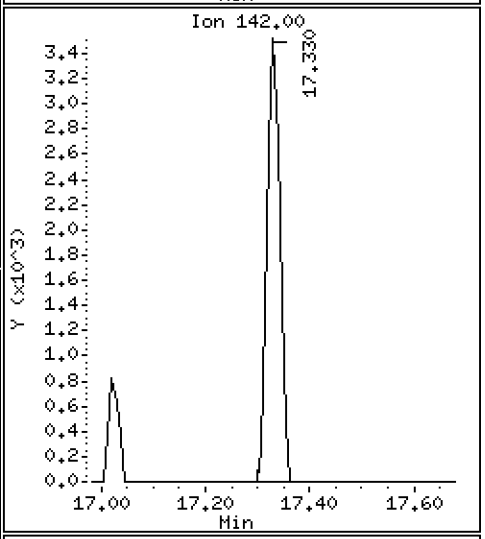
57 Hexachlorobenzene

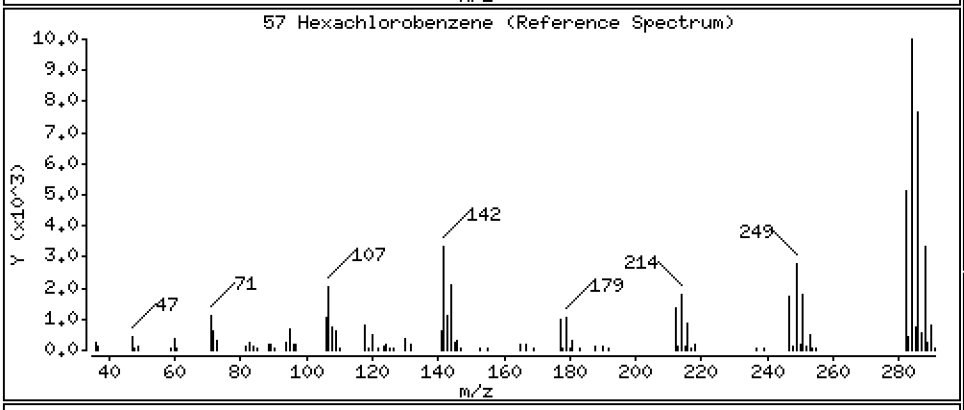
Concentration: 0.6530 ug/mL

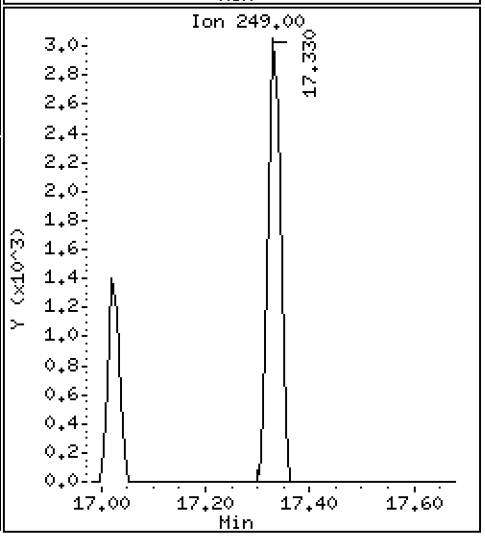


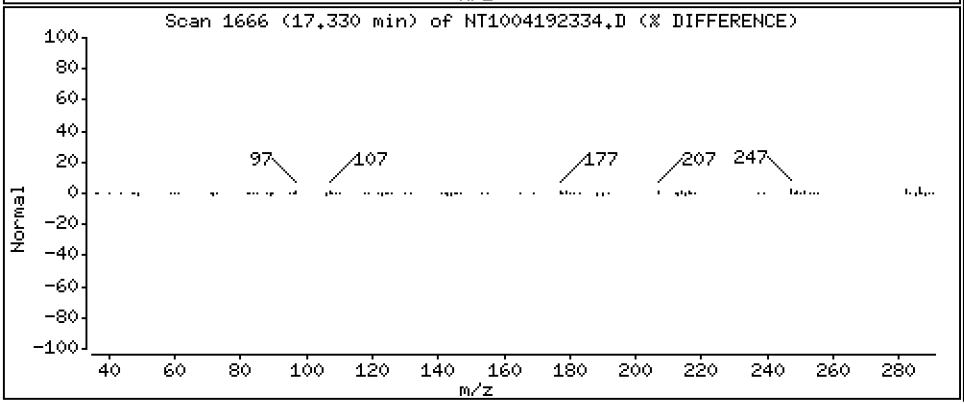












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

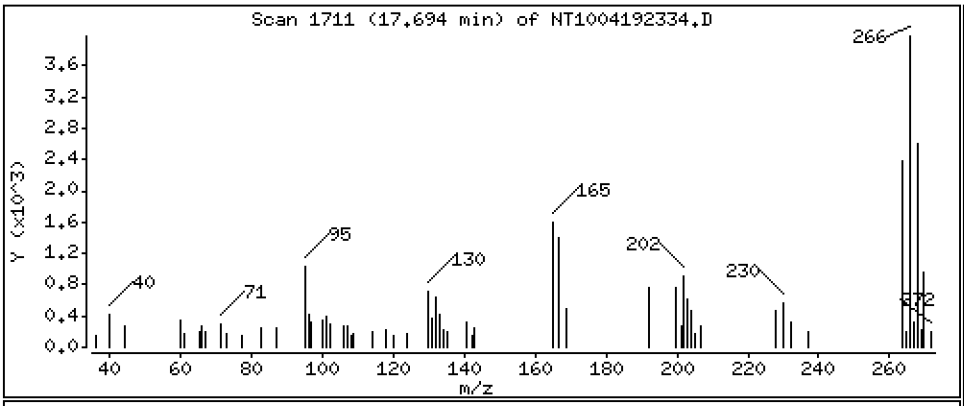
Operator: VTS

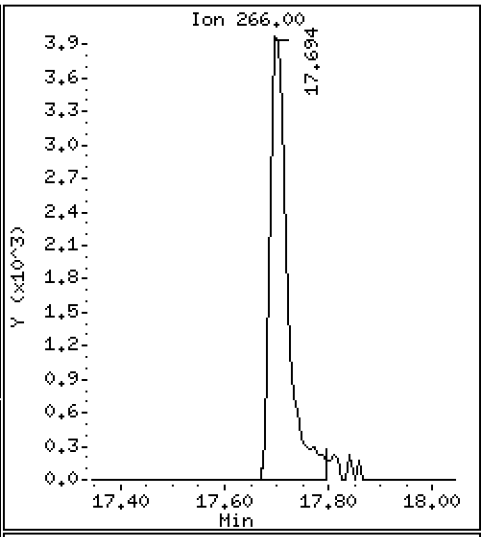
Column phase: ZB-5msi

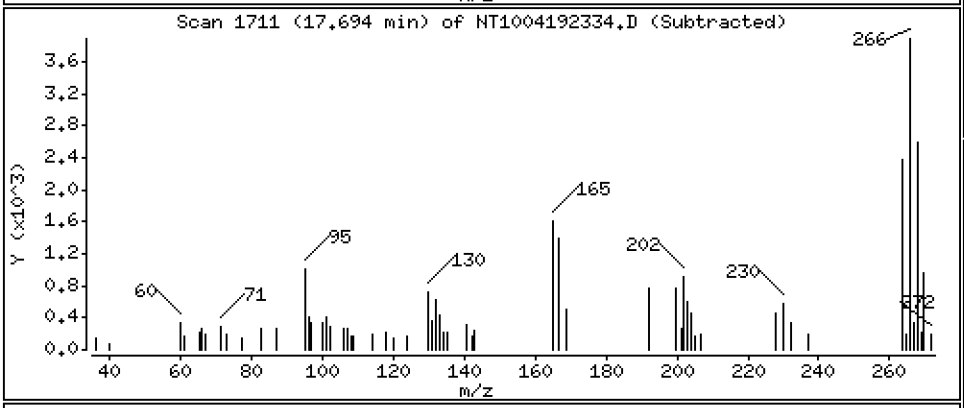
Column diameter: 0.25

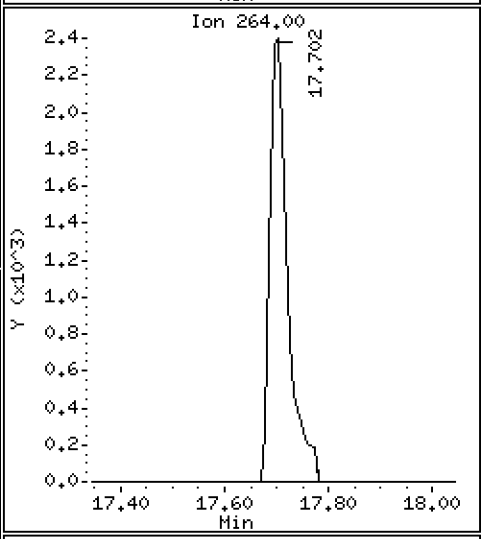
58 Pentachlorophenol

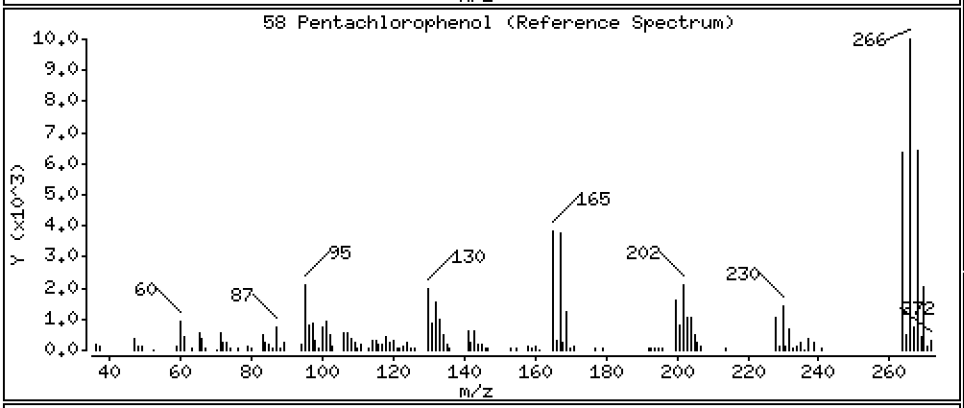
Concentration: 0.6025 ug/mL

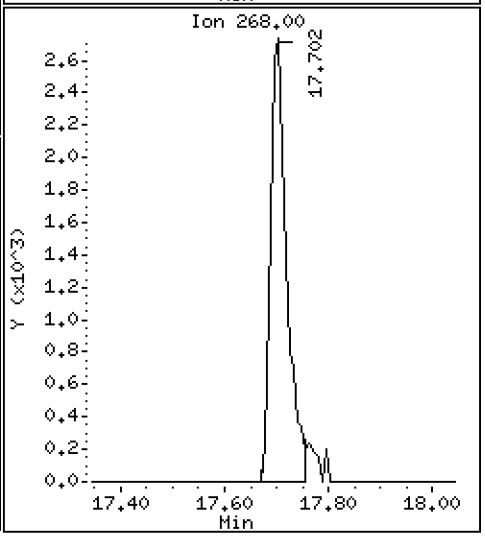


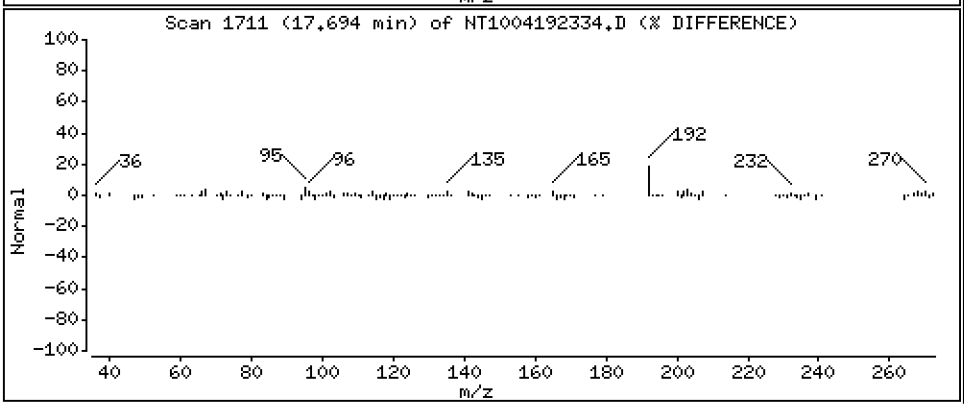












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

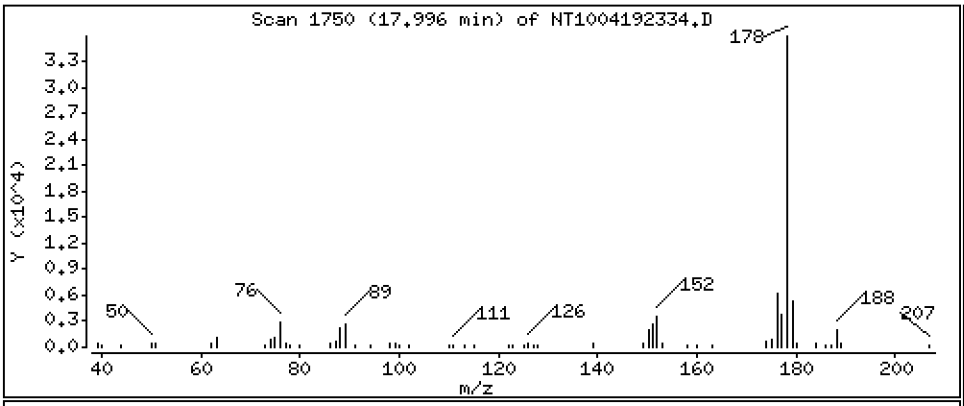
Operator: VTS

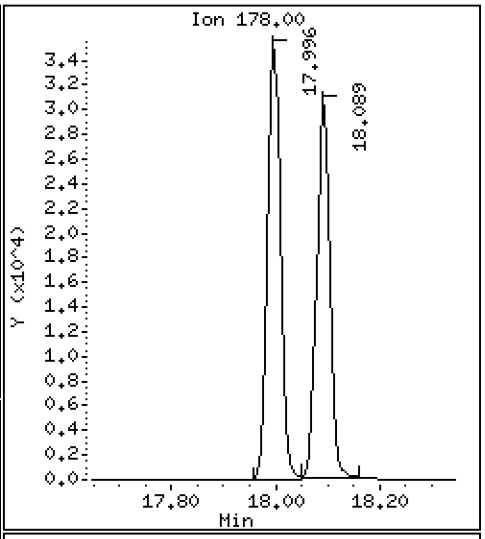
Column phase: ZB-5msi

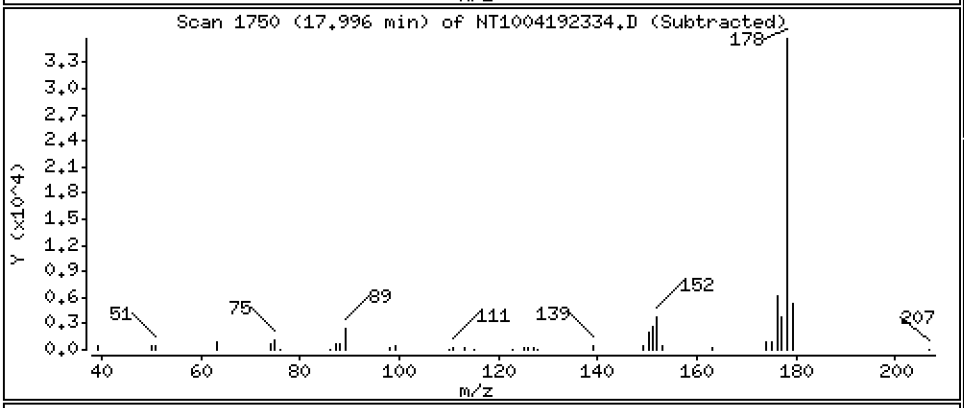
Column diameter: 0.25

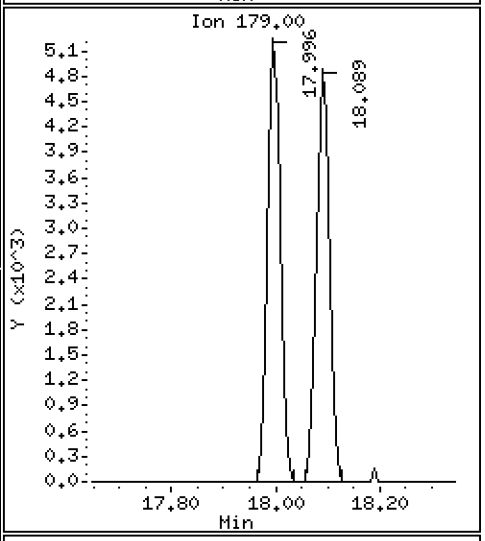
60 Phenanthrene

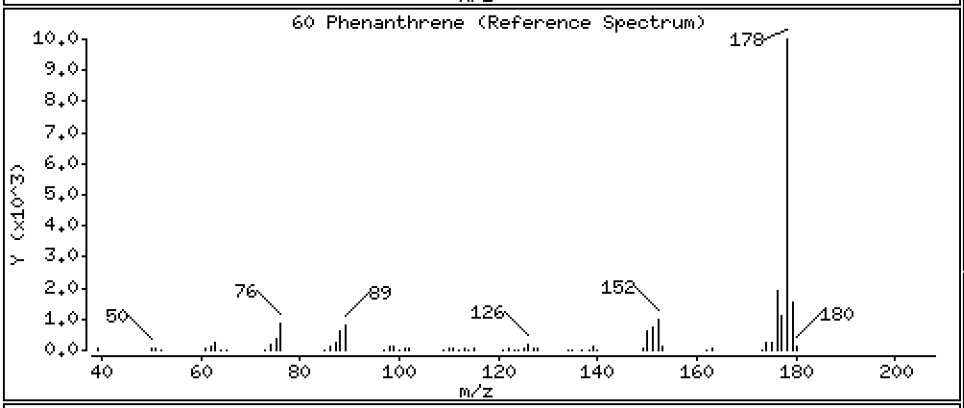
Concentration: 0.4850 ug/mL

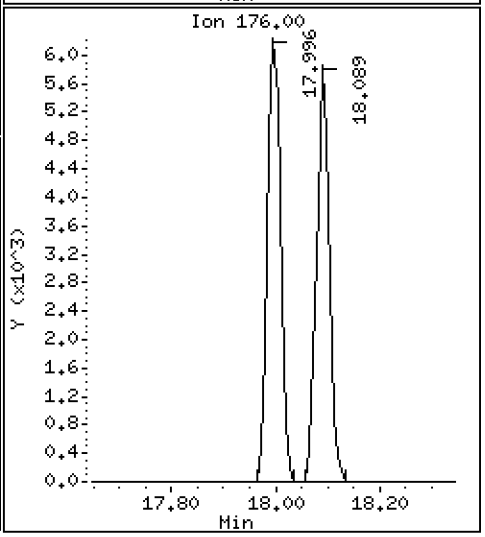


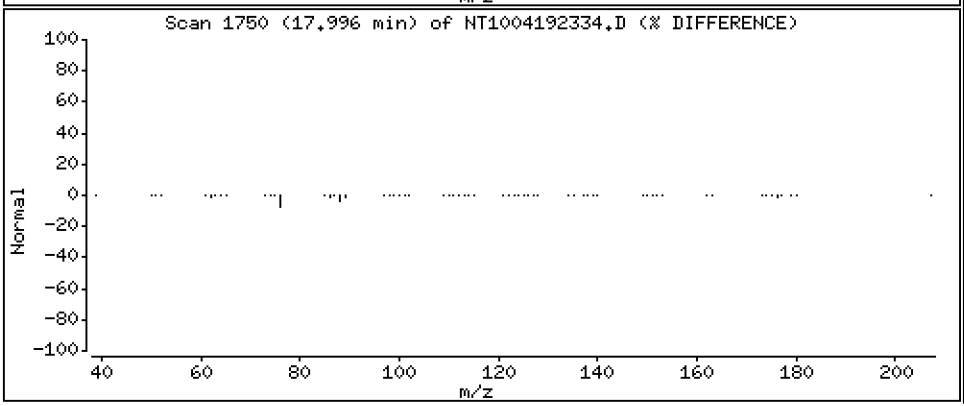












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

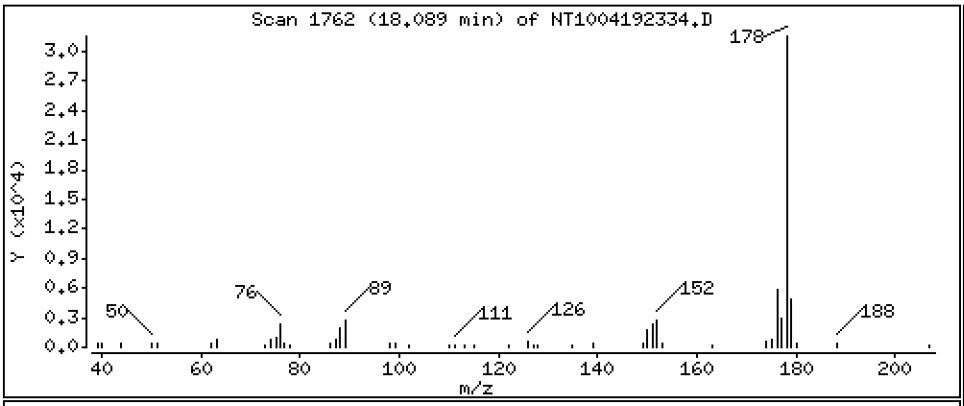
Operator: VTS

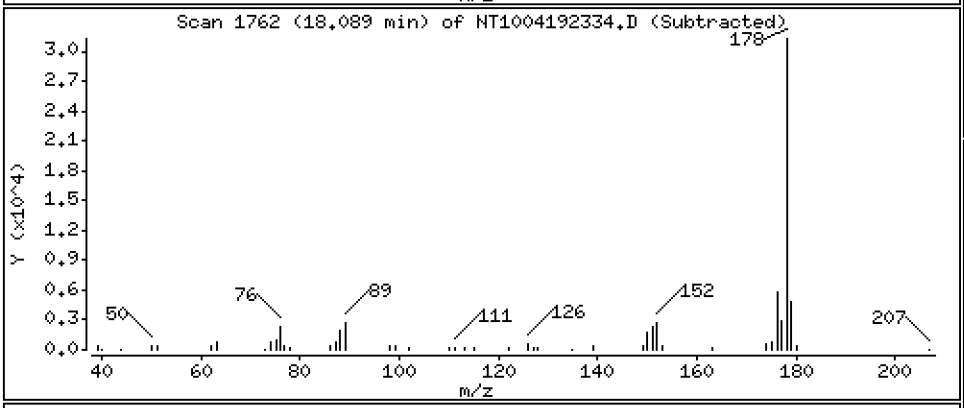
Column phase: ZB-5msi

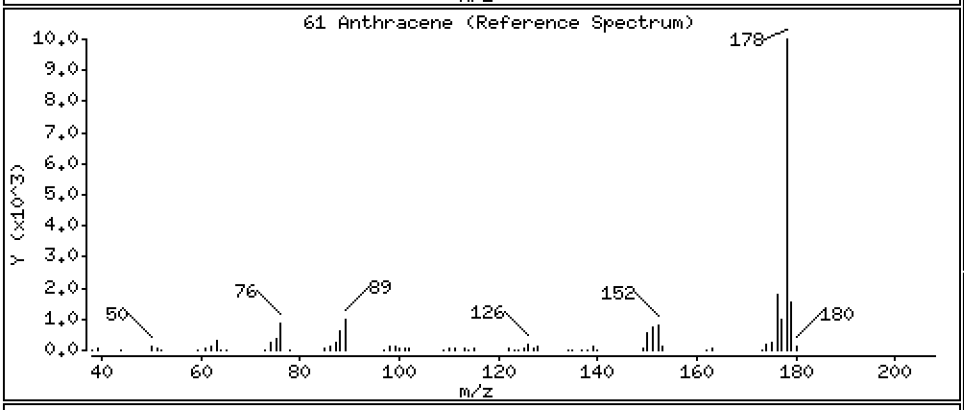
Column diameter: 0.25

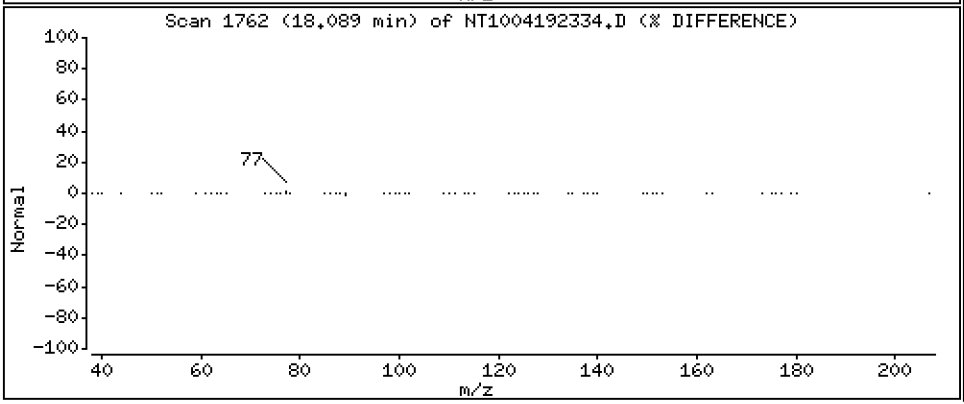
61 Anthracene

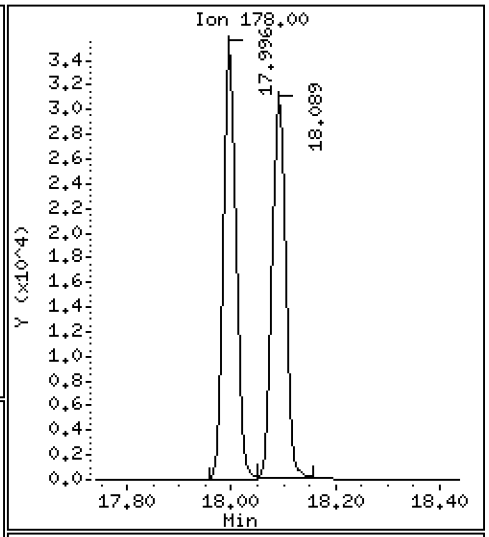
Concentration: 0.4627 ug/mL

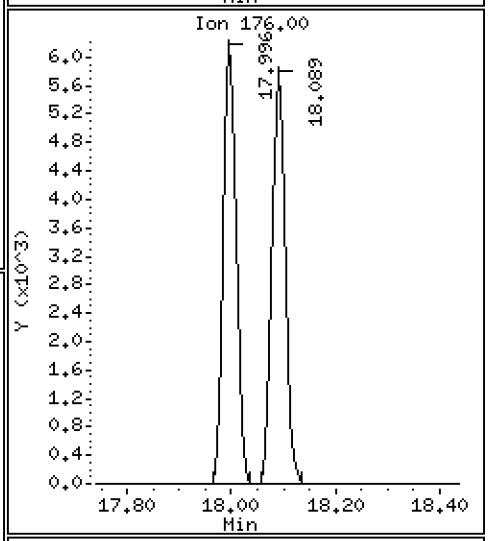


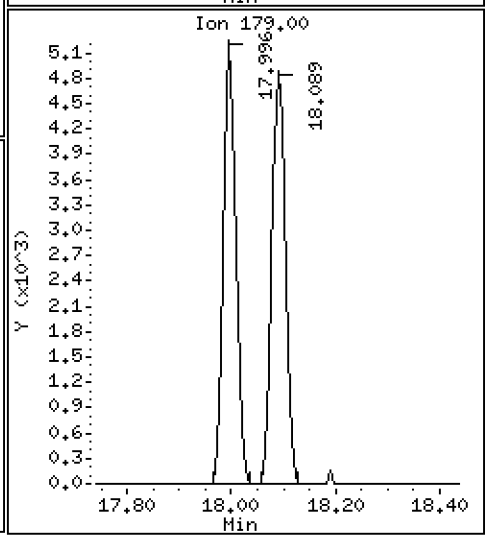












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

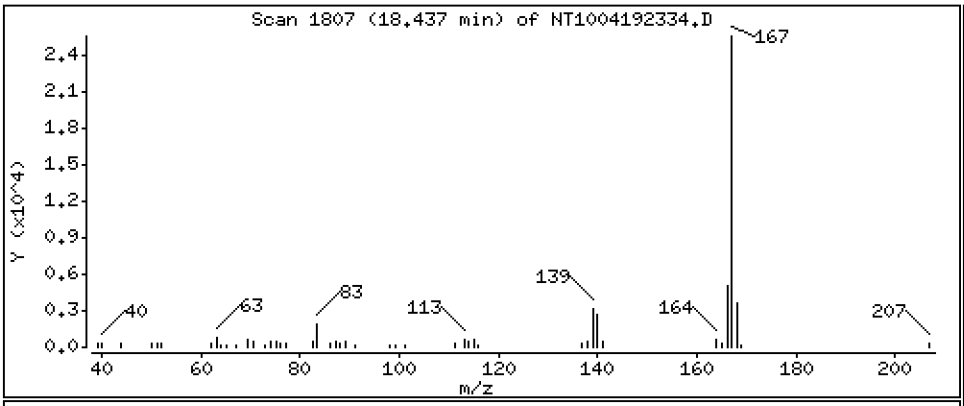
Operator: VTS

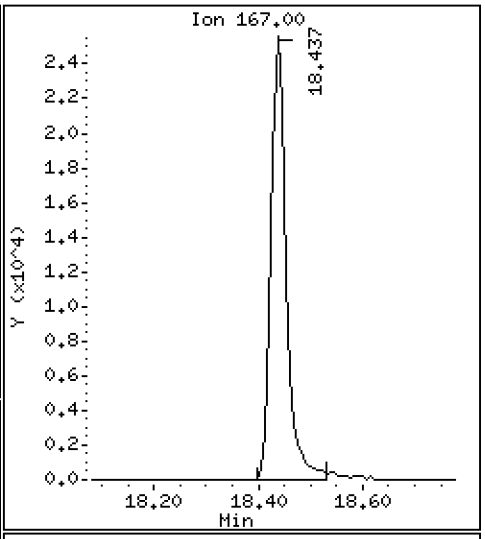
Column phase: ZB-5msi

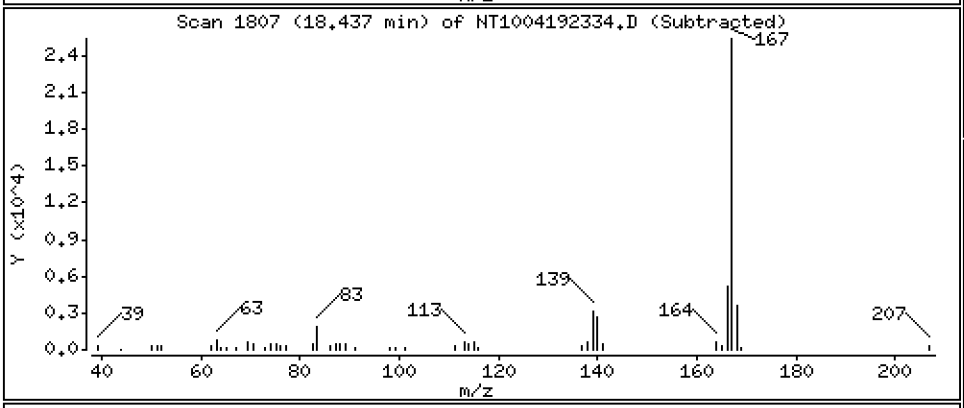
Column diameter: 0.25

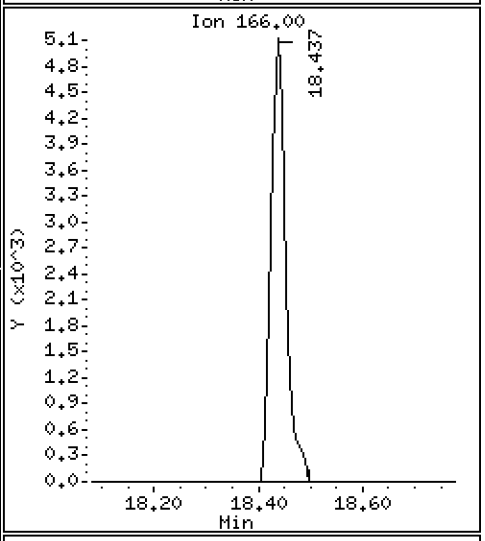
62 Carbazole

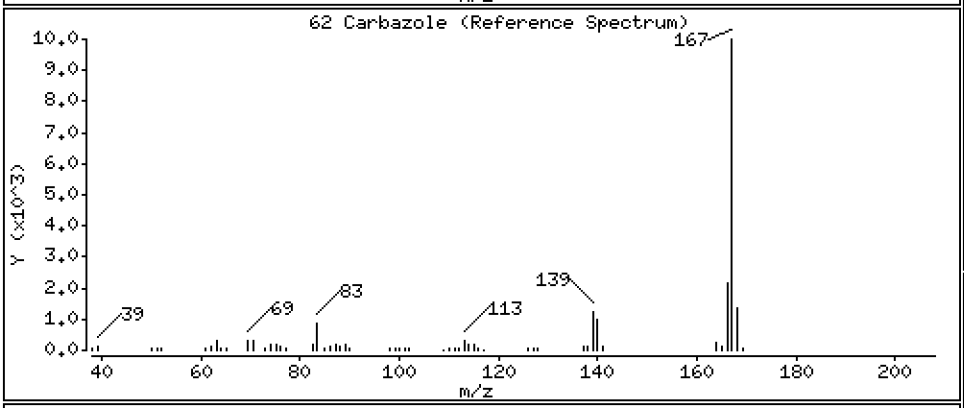
Concentration: 0.4815 ug/mL

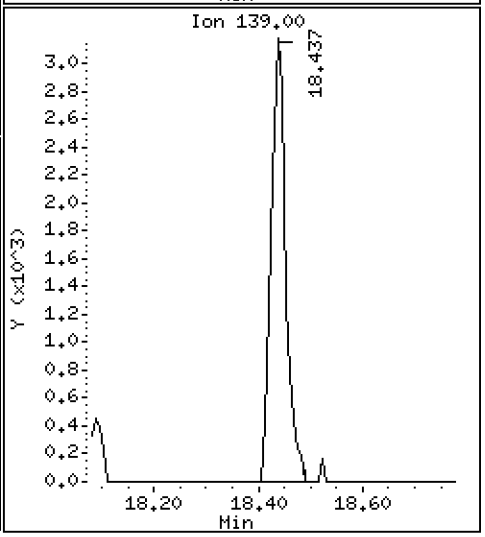


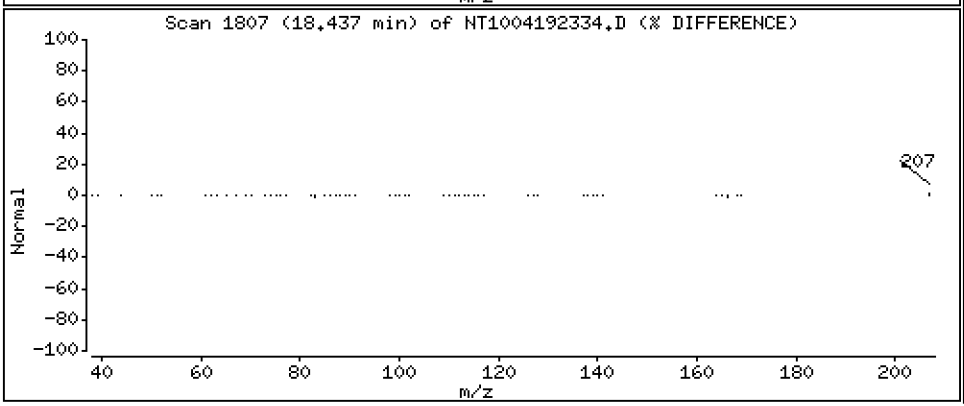












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

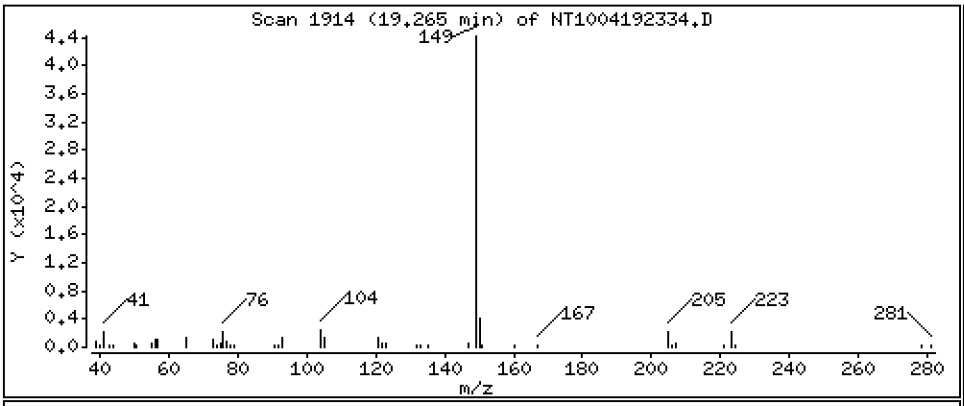
Operator: VTS

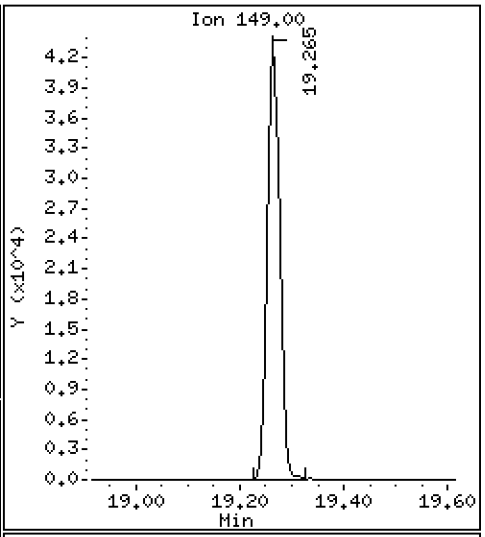
Column phase: ZB-5msi

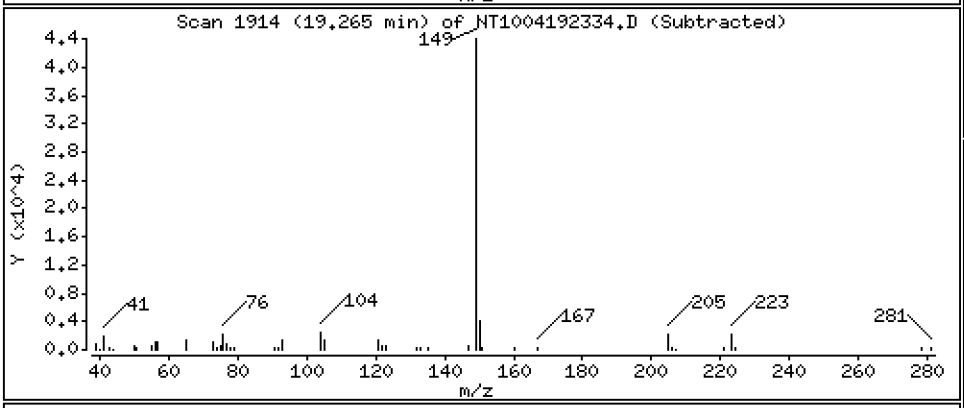
Column diameter: 0.25

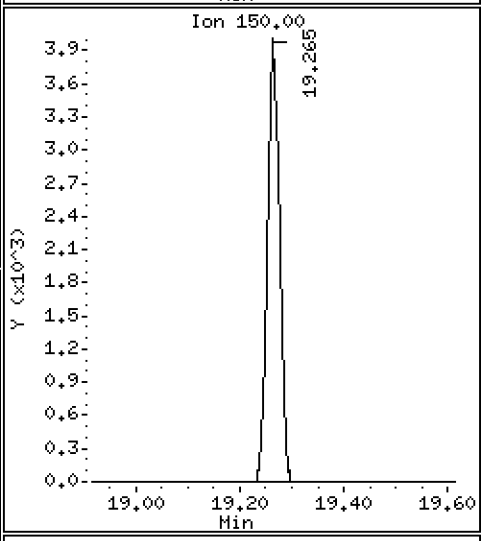
63 Di-n-butylphthalate

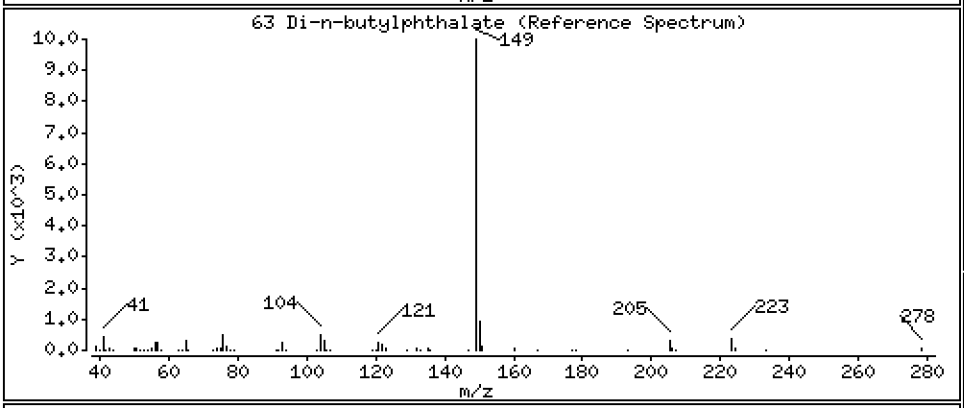
Concentration: 0.4883 ug/mL

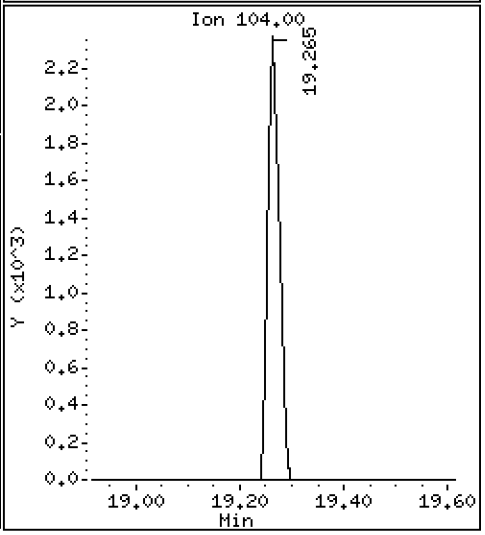


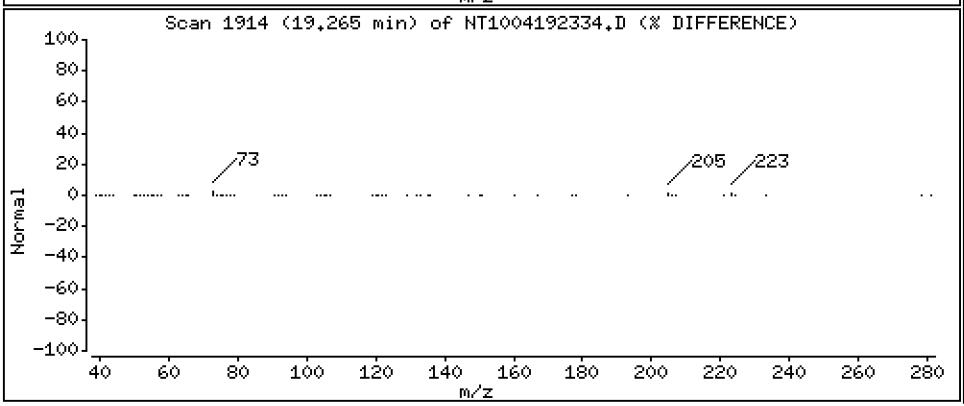












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192334.D

Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

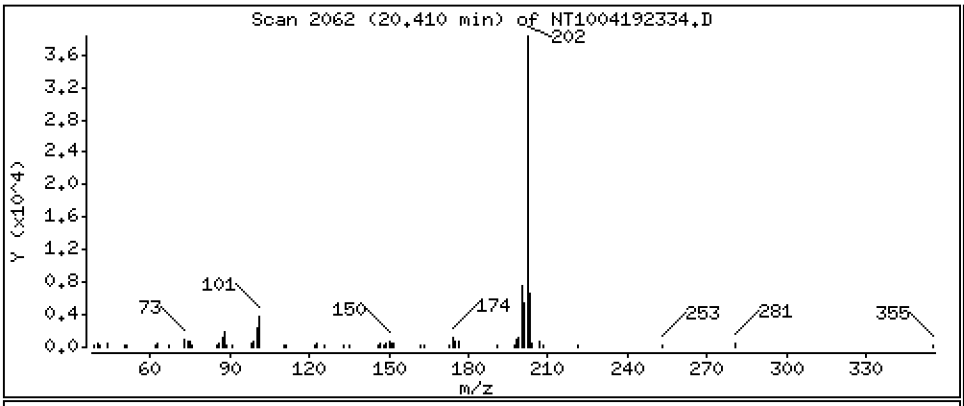
Operator: VTS

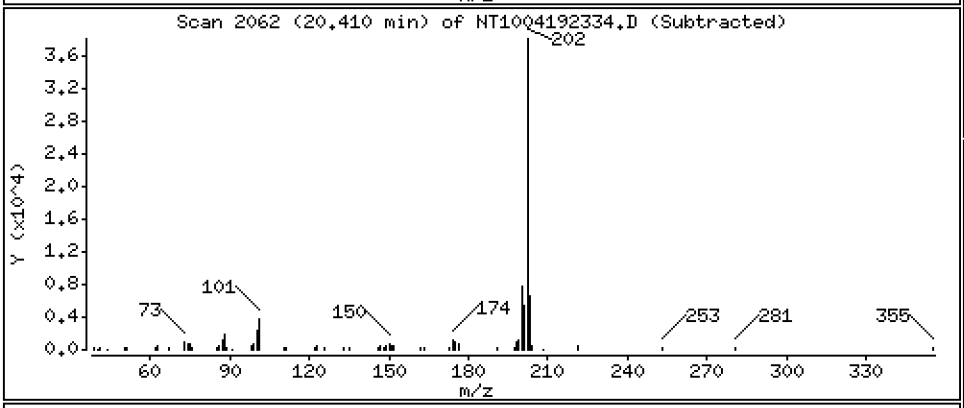
Column phase: ZB-5msi

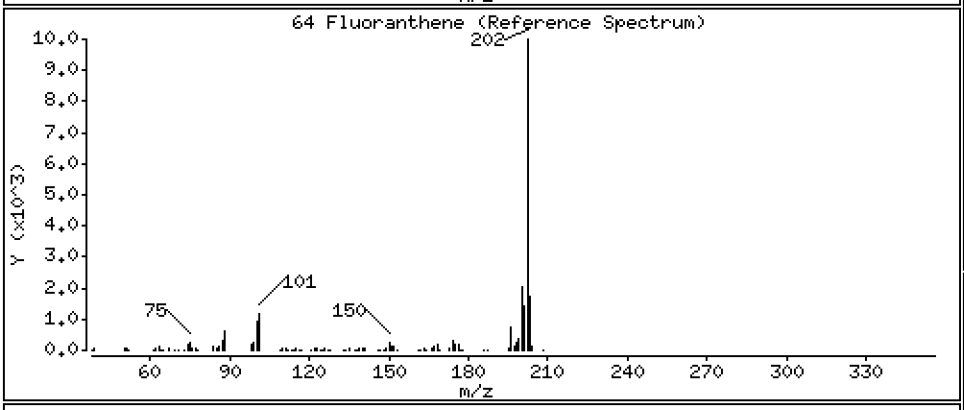
Column diameter: 0.25

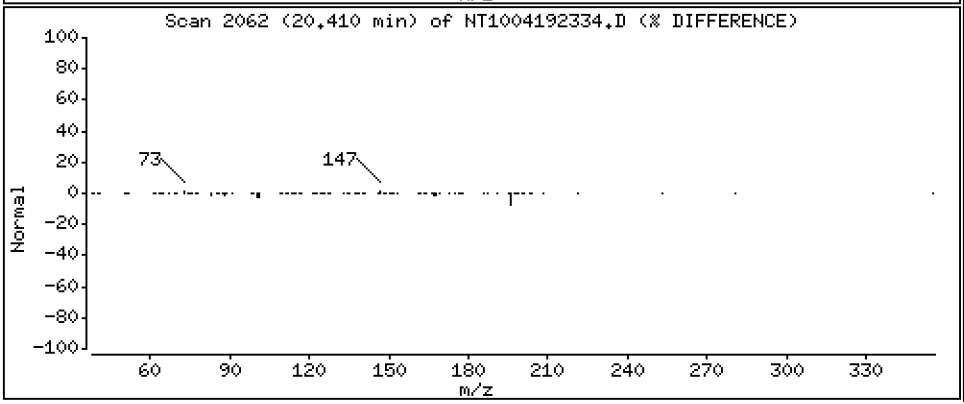
64 Fluoranthene

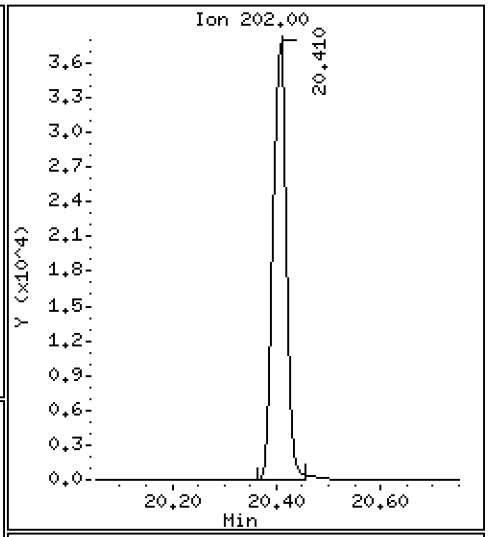
Concentration: 0.3716 ug/mL

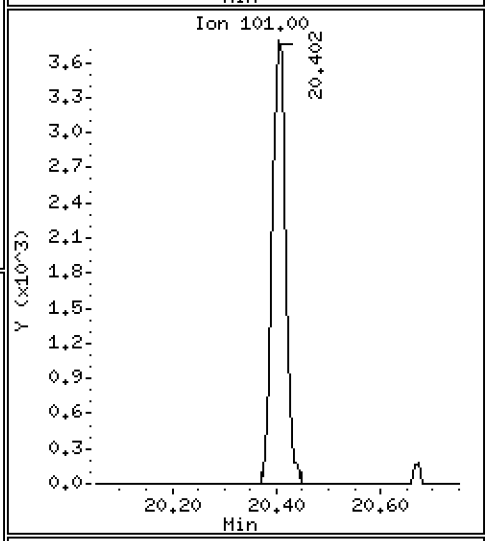


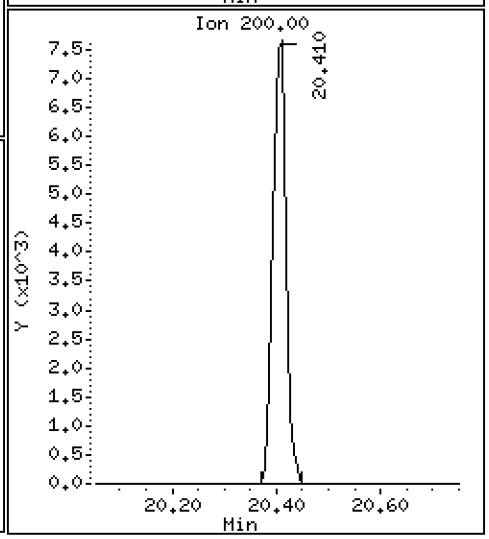












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

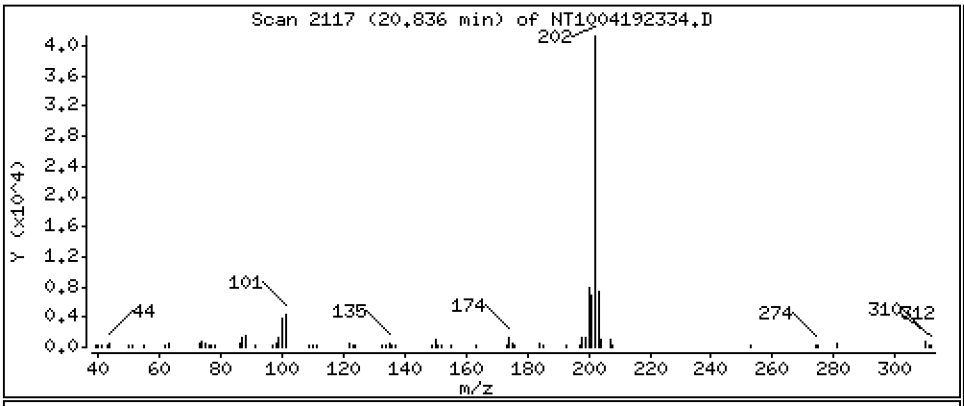
Operator: VTS

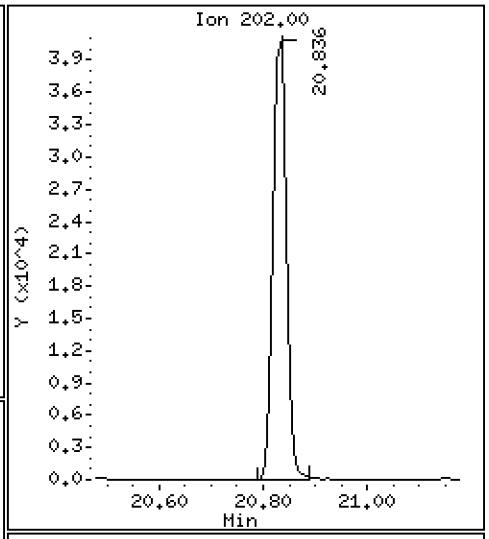
Column phase: ZB-5msi

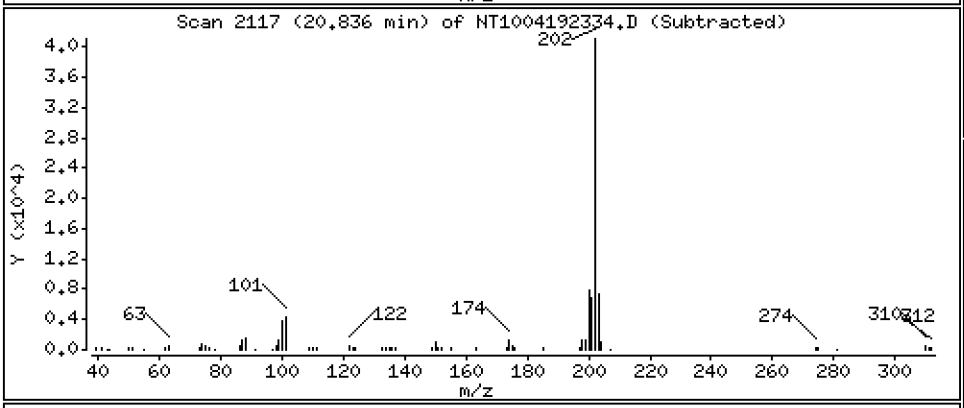
Column diameter: 0.25

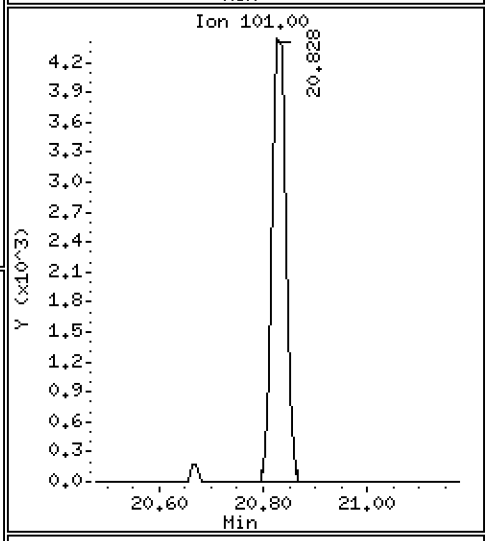
65 Pyrene

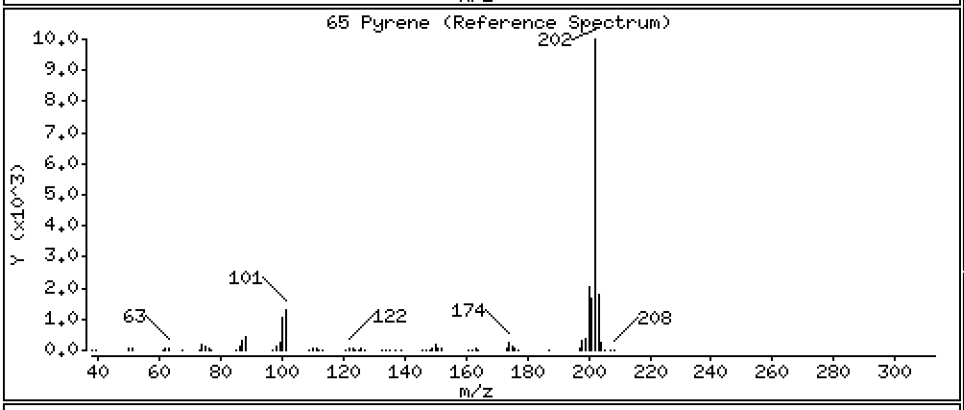
Concentration: 0.3906 ug/mL

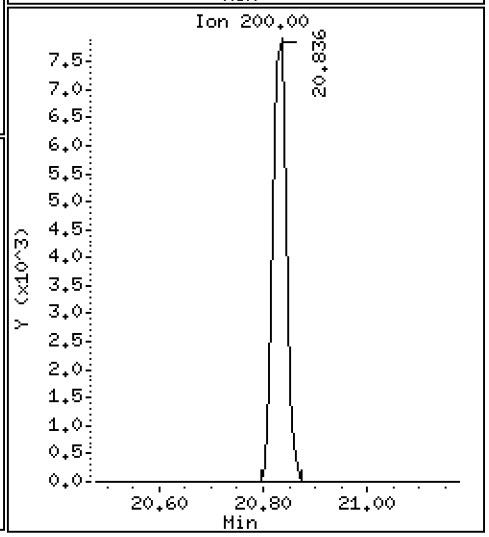


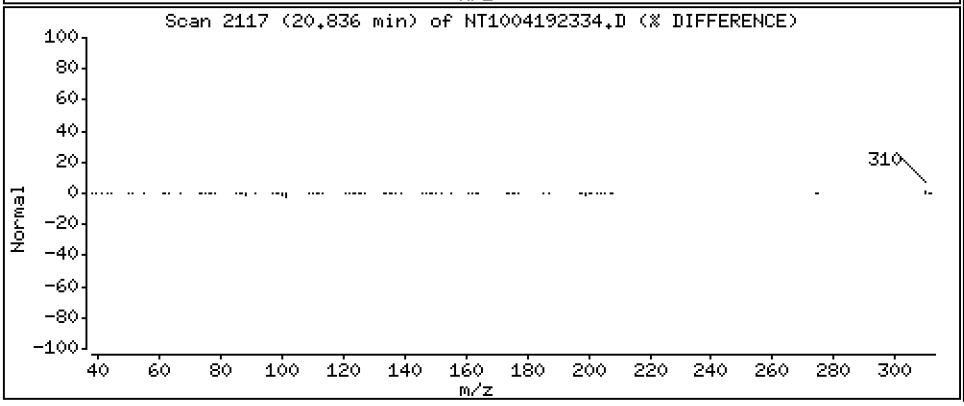












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

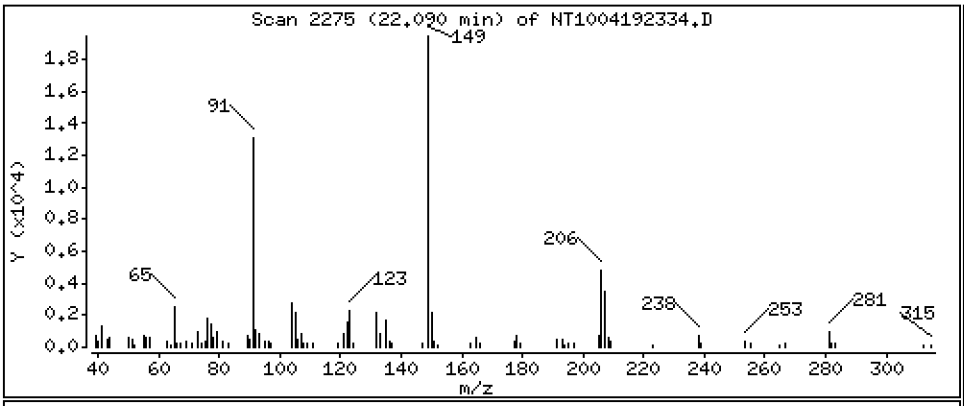
Operator: VTS

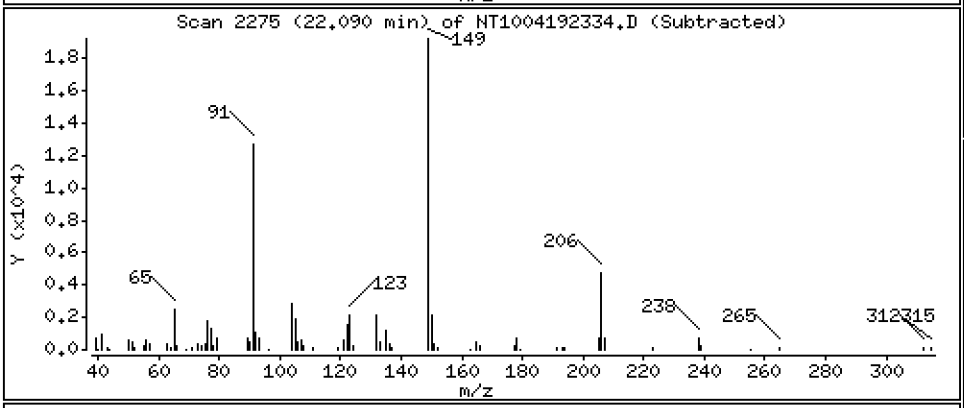
Column phase: ZB-5msi

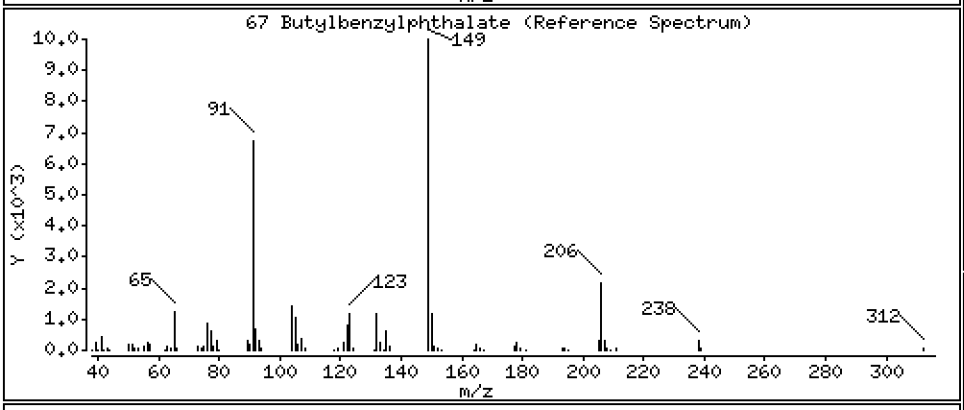
Column diameter: 0.25

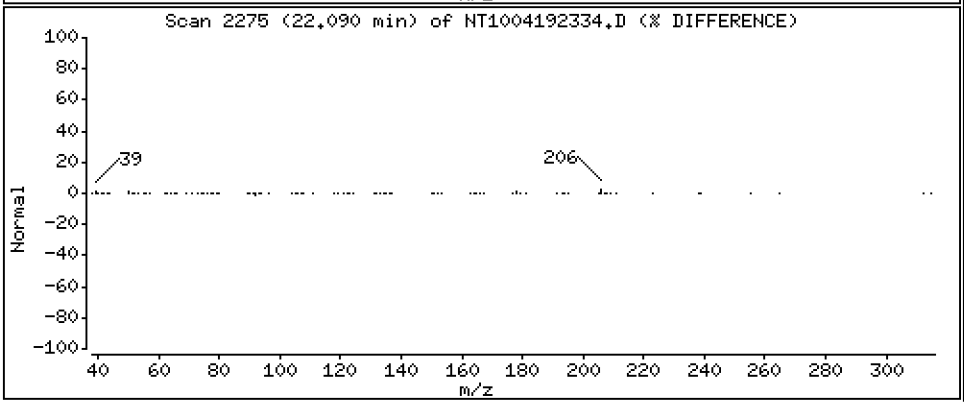
67 Butylbenzylphthalate

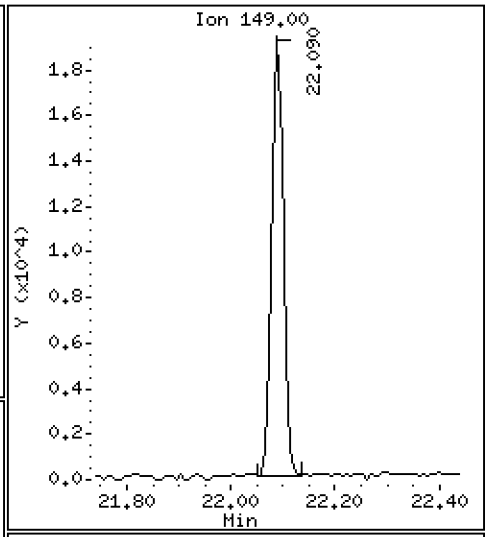
Concentration: 0.4481 ug/mL

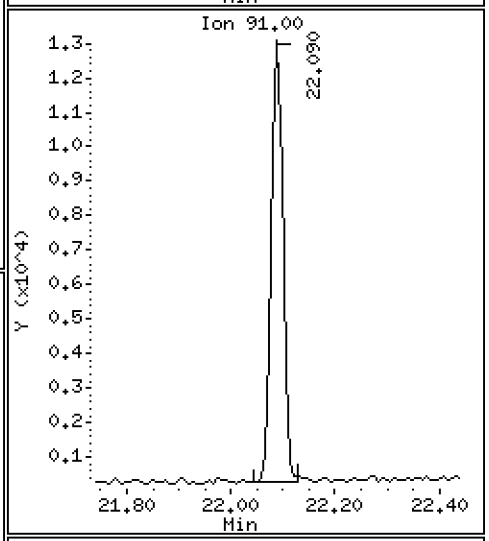


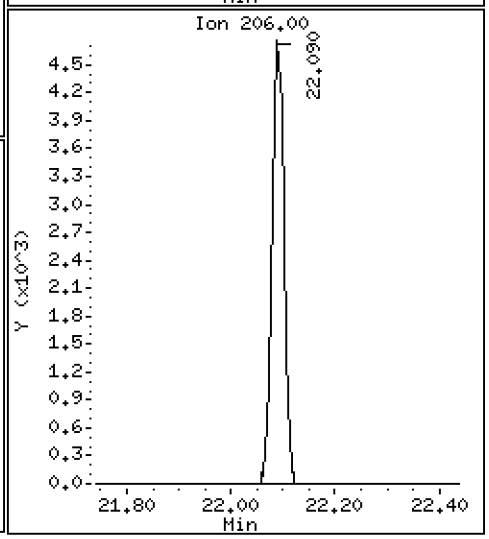












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

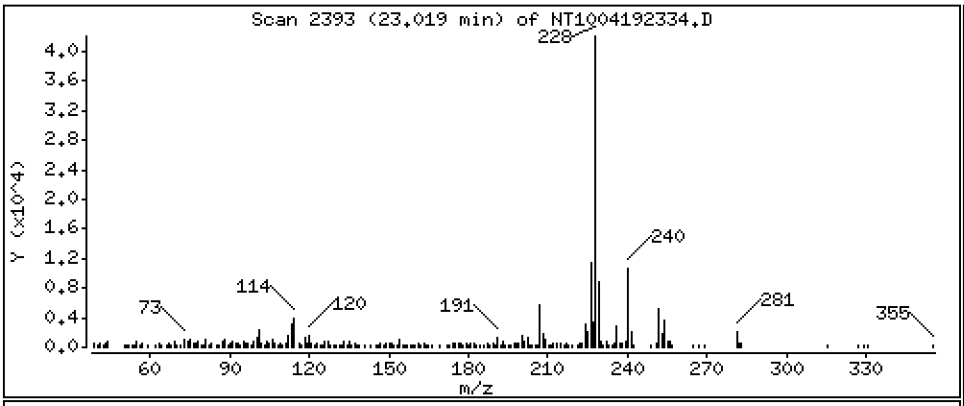
Operator: VTS

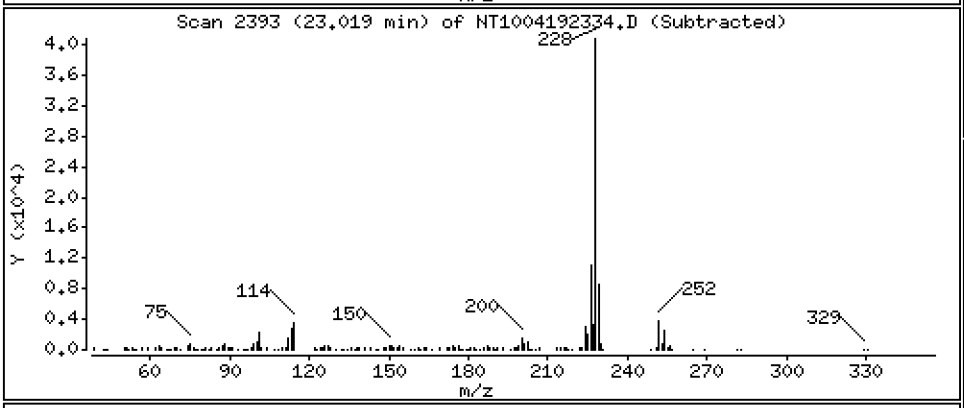
Column phase: ZB-5msi

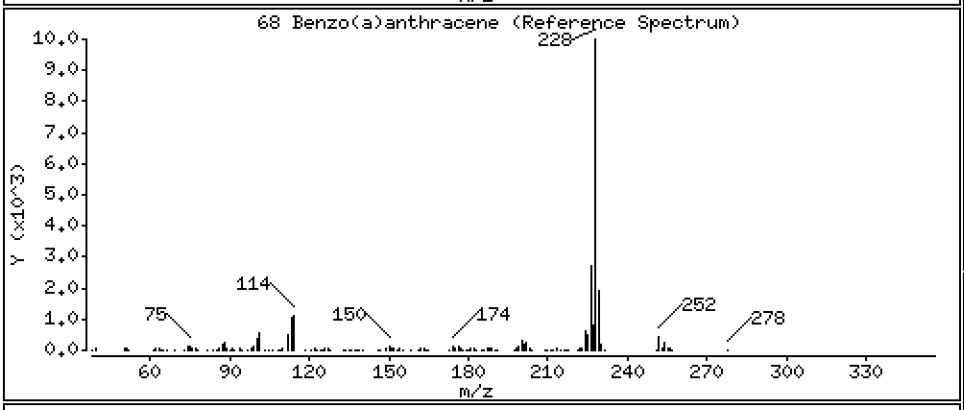
Column diameter: 0.25

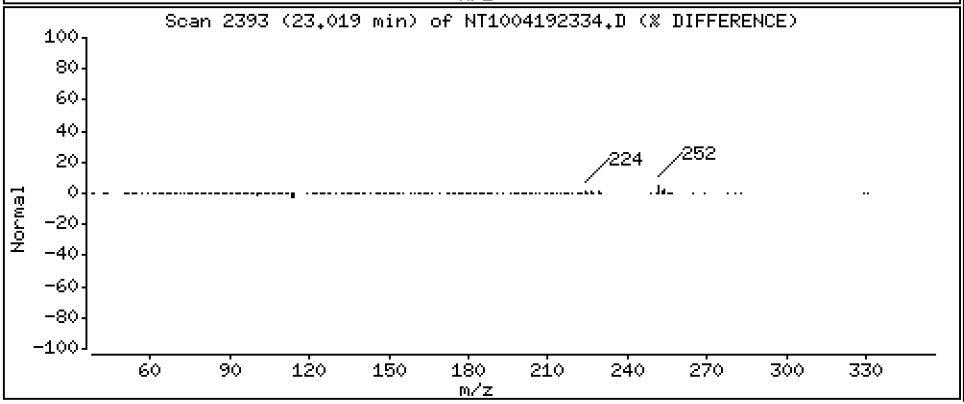
68 Benzo(a)anthracene

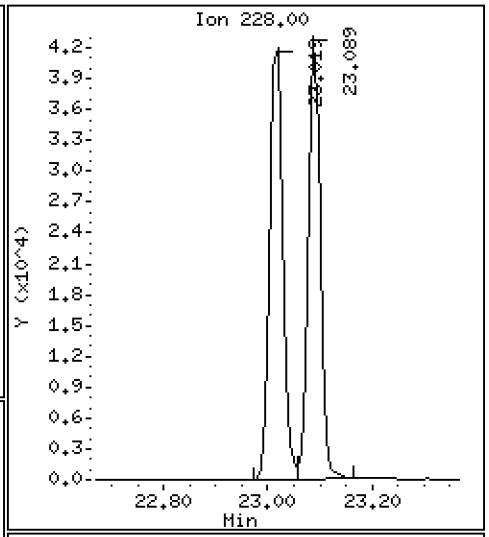
Concentration: 0.4605 ug/mL

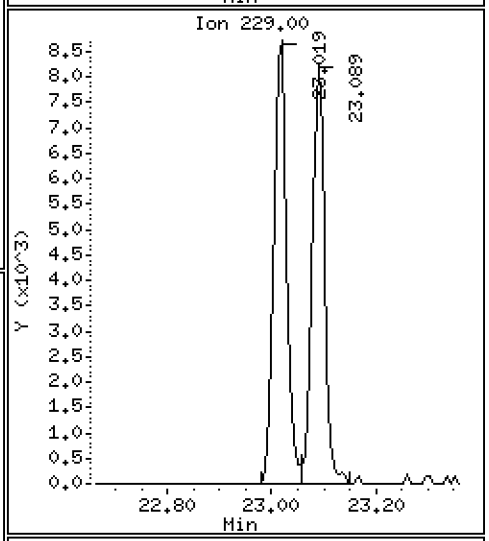


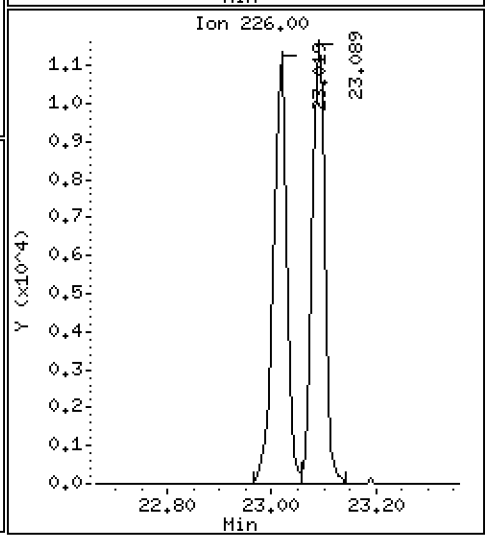












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

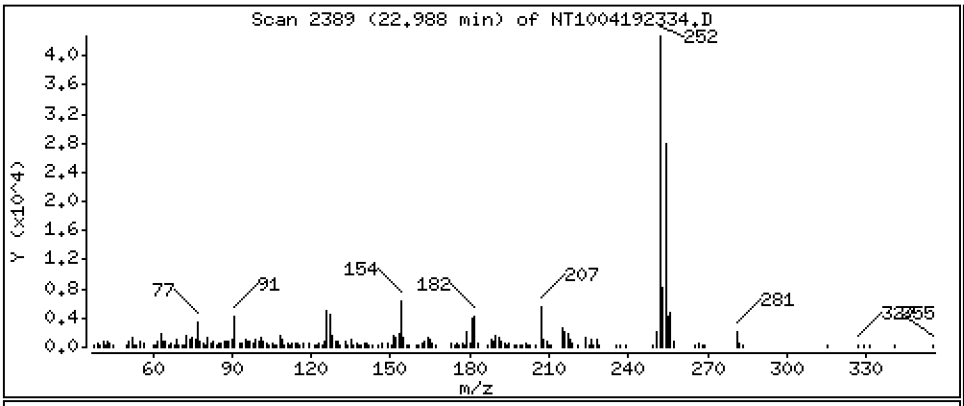
Operator: VTS

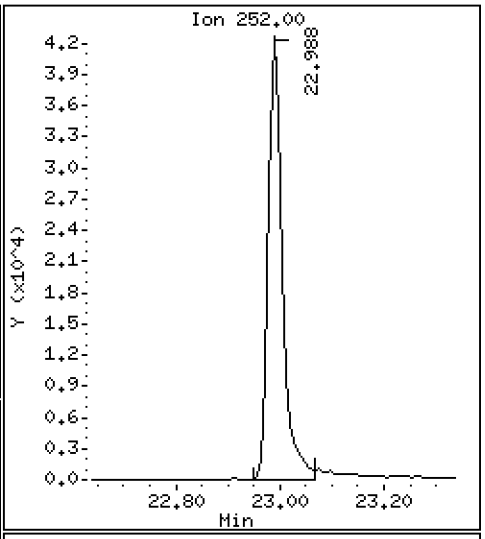
Column phase: ZB-5msi

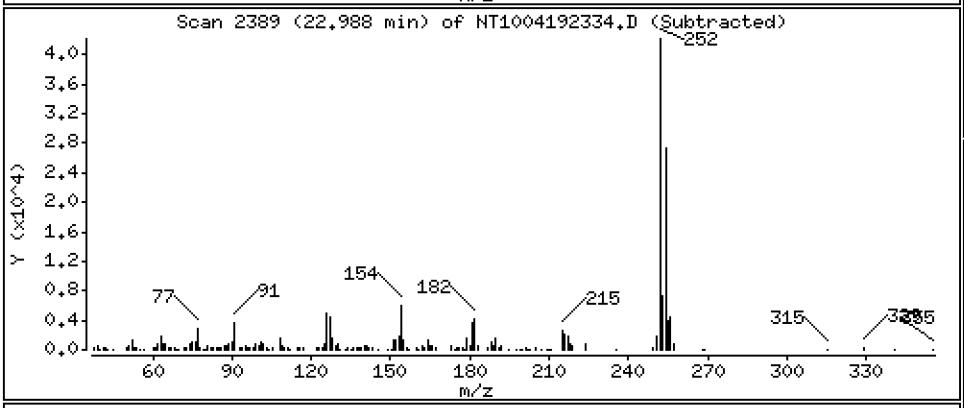
Column diameter: 0.25

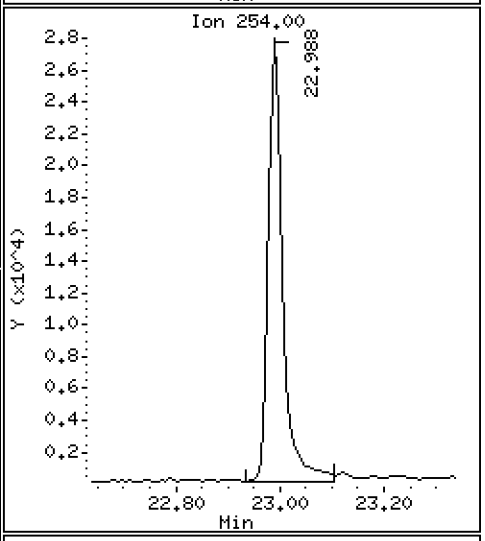
70 3,3'-Dichlorobenzidine

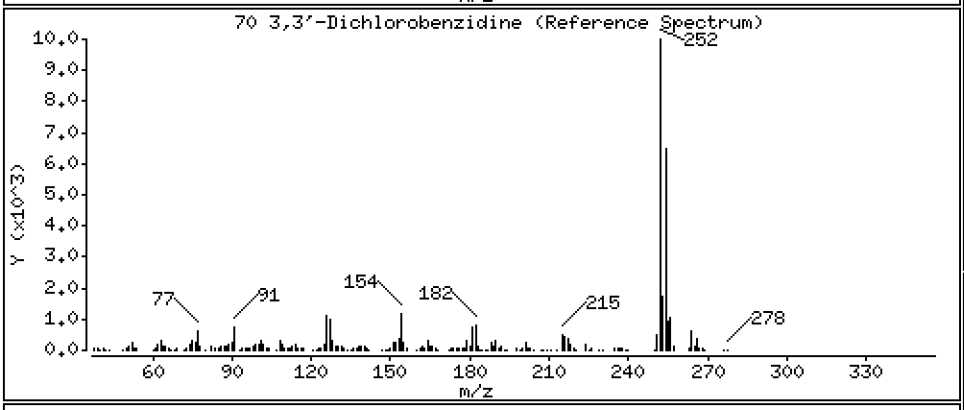
Concentration: 1.589 ug/mL

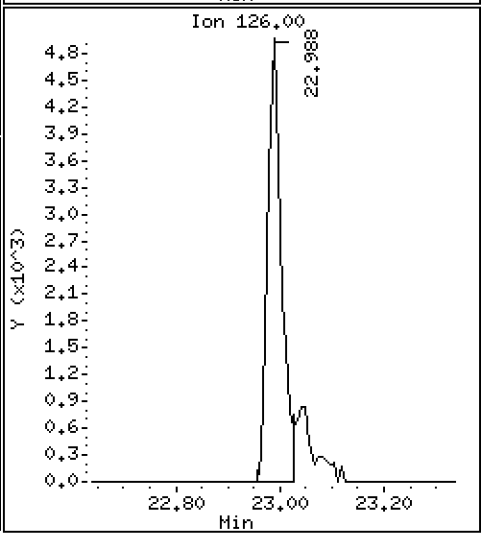


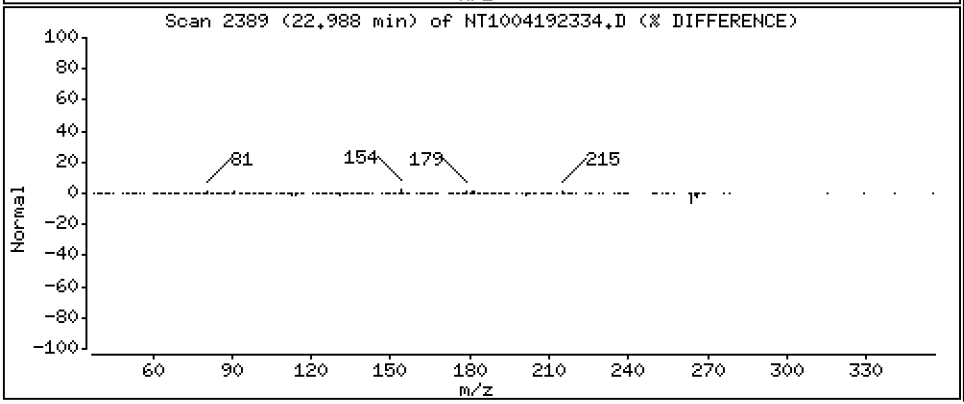












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

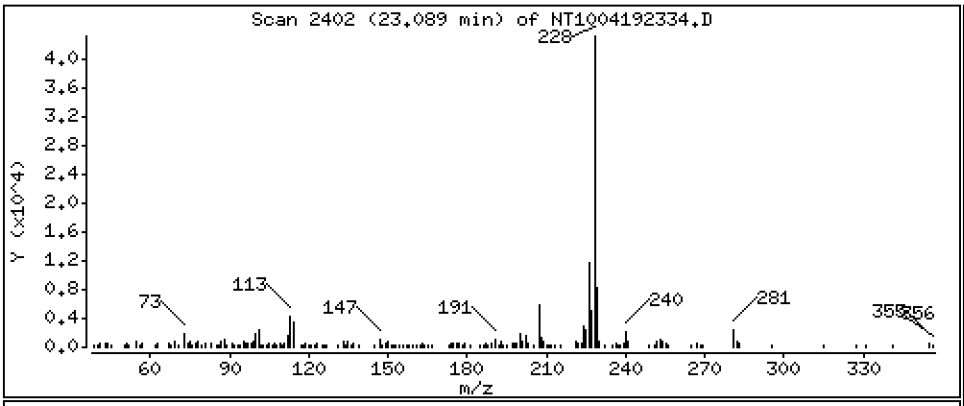
Operator: VTS

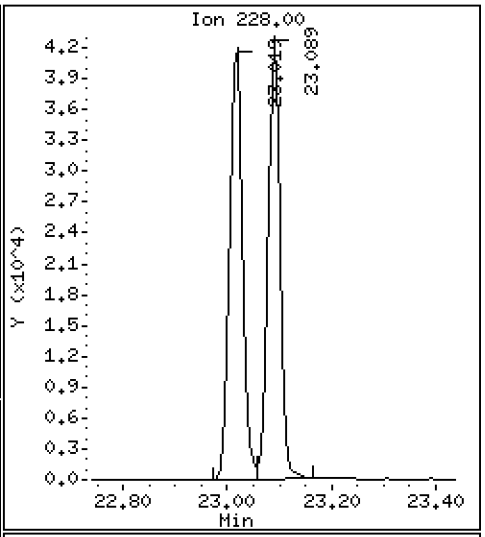
Column phase: ZB-5msi

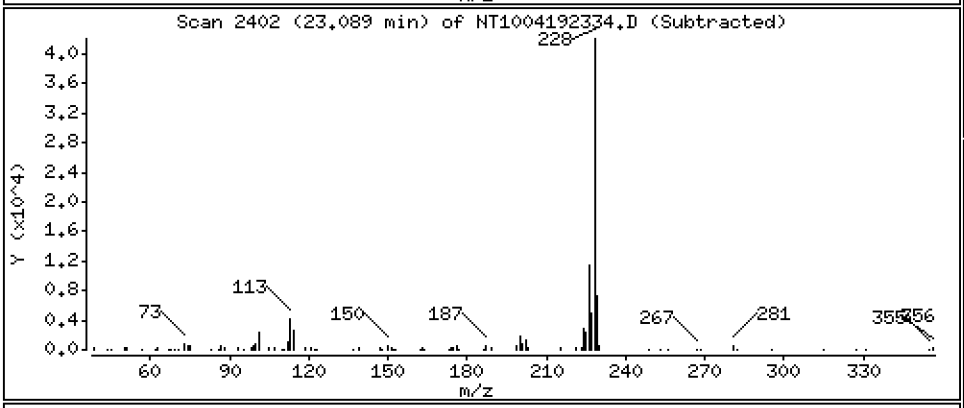
Column diameter: 0.25

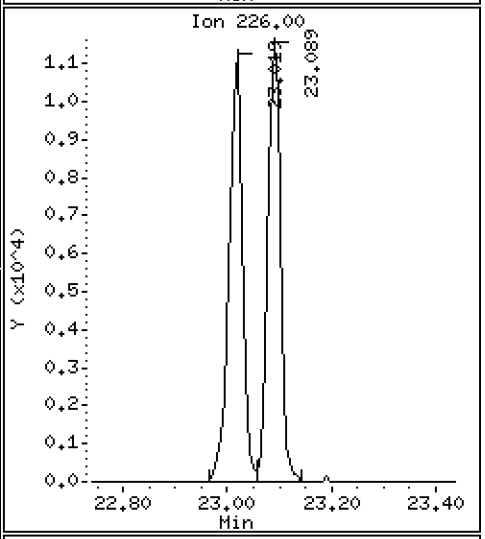
71 Chrysene

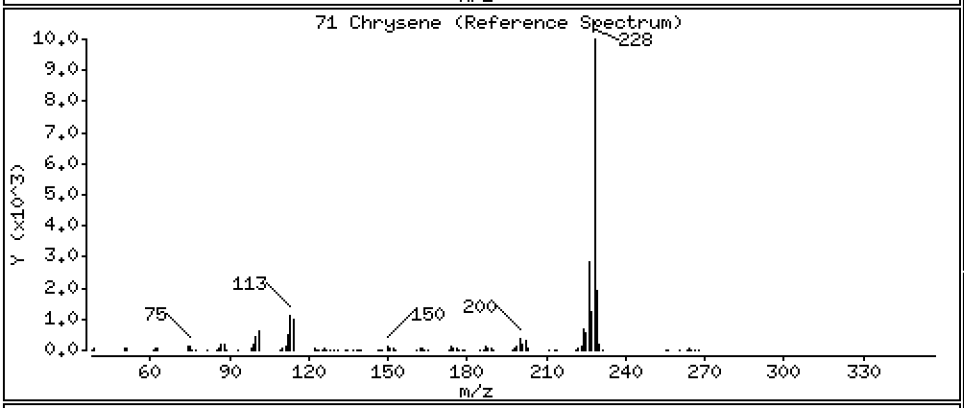
Concentration: 0.4314 ug/mL

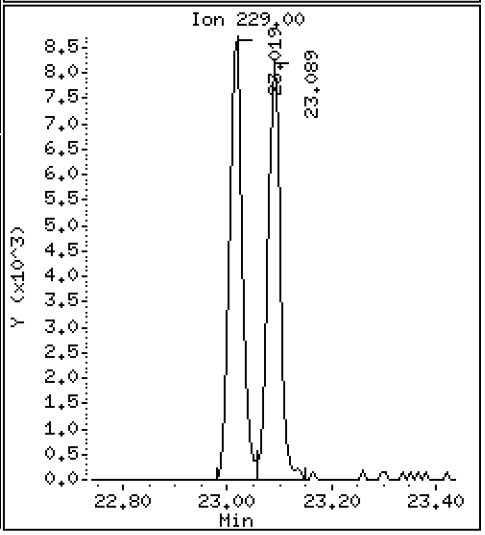


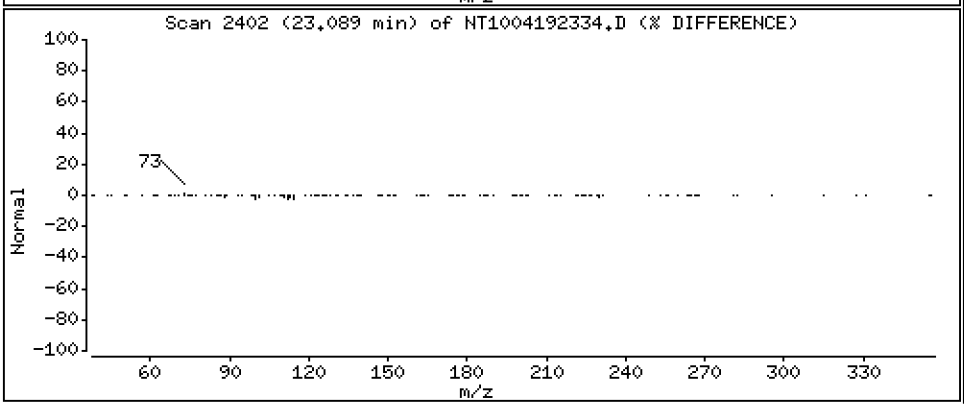












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

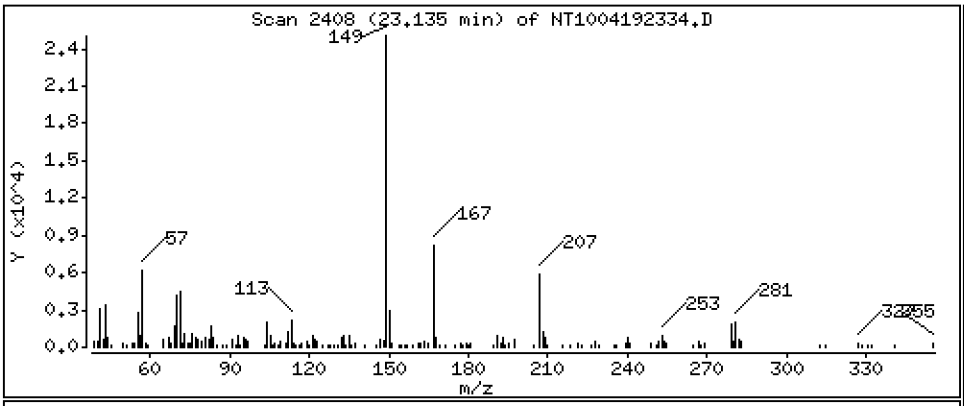
Operator: VTS

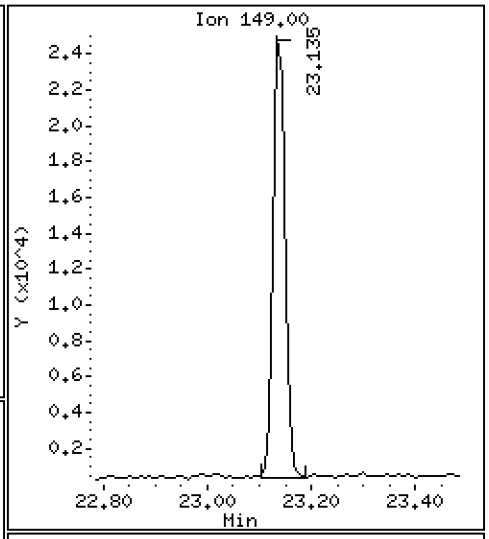
Column phase: ZB-5msi

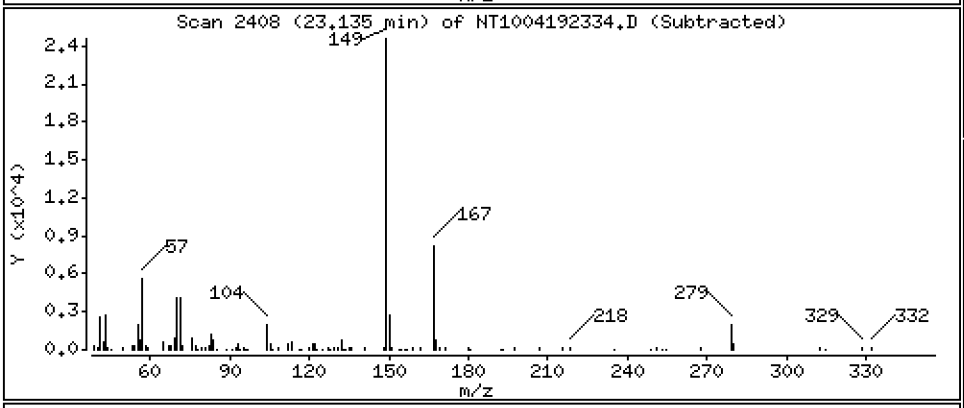
Column diameter: 0.25

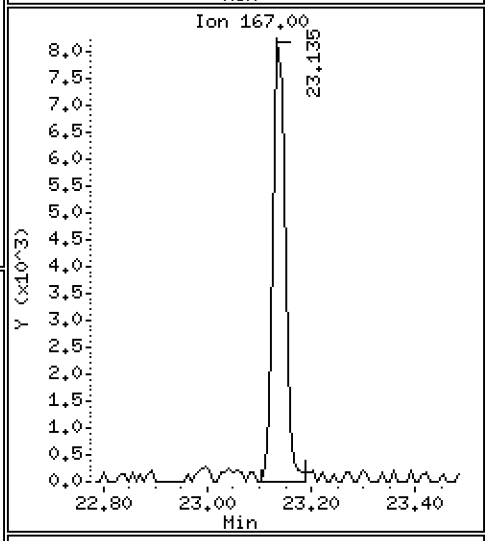
72 bis(2-Ethylhexyl)phthalate

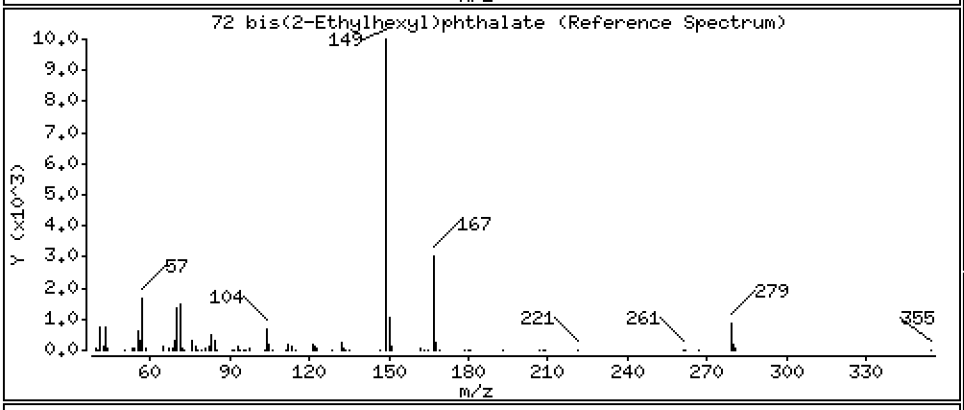
Concentration: 0.4217 ug/mL

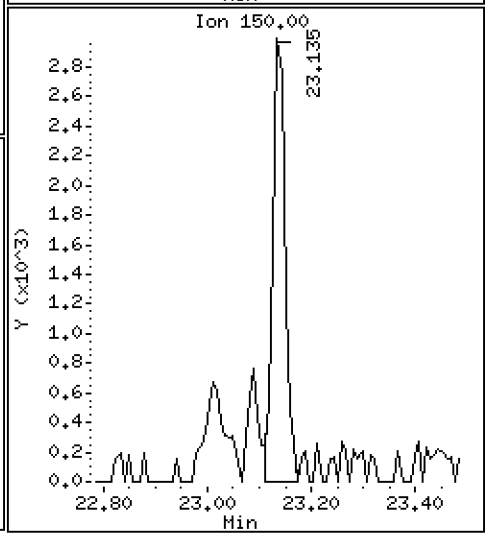


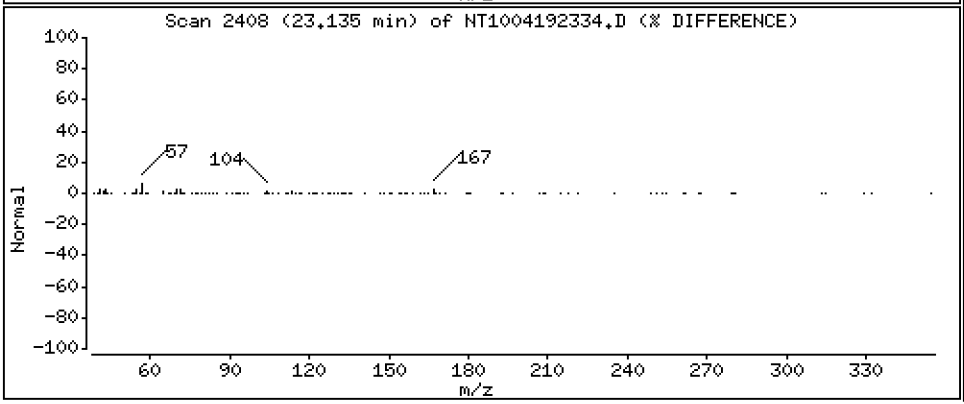












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

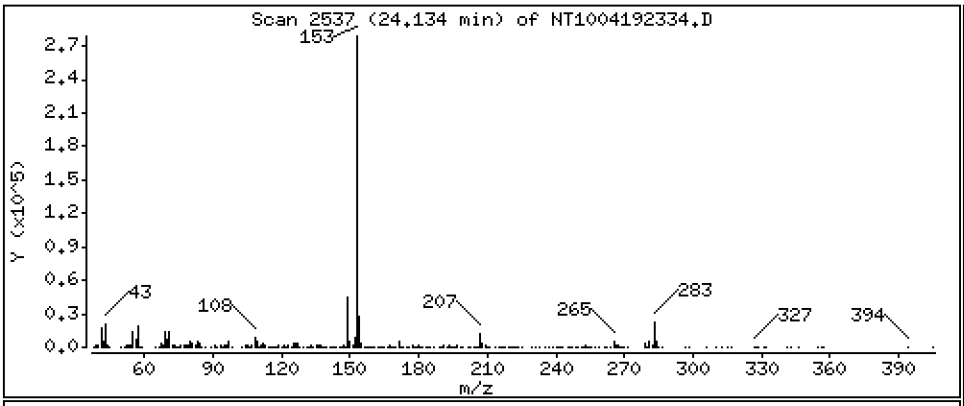
Operator: VTS

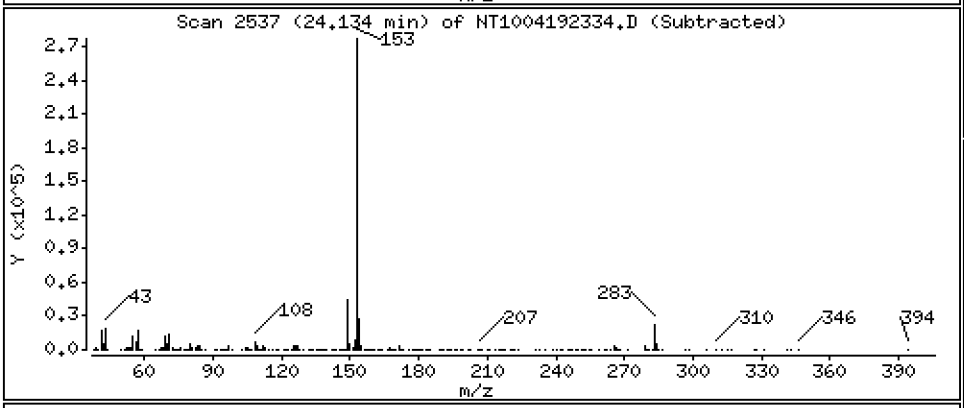
Column phase: ZB-5msi

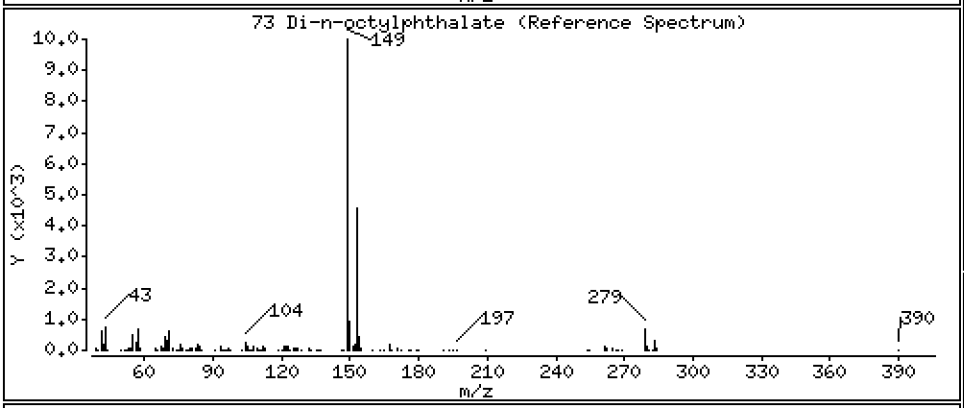
Column diameter: 0.25

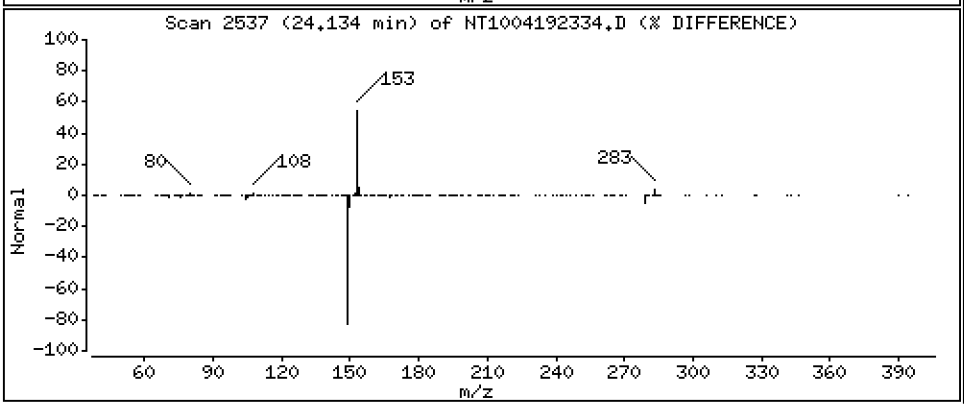
73 Di-n-octylphthalate

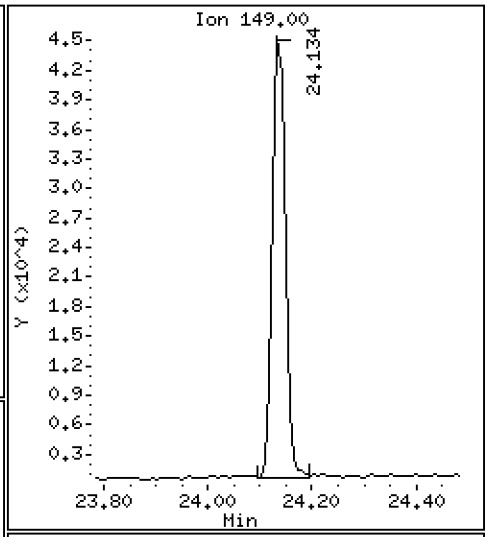
Concentration: 0.4754 ug/mL

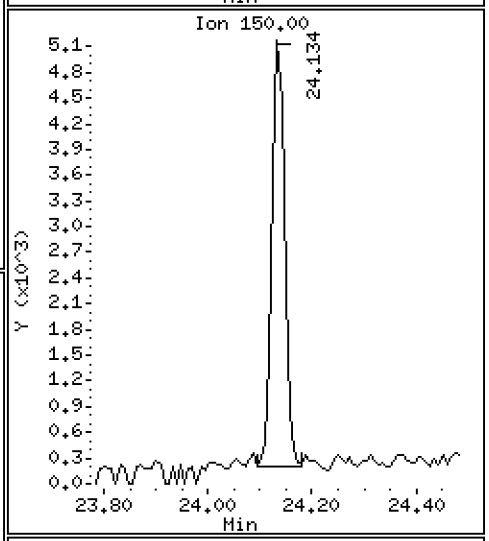


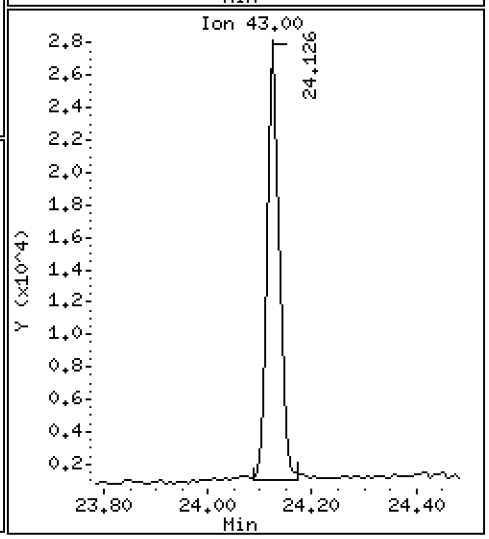












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

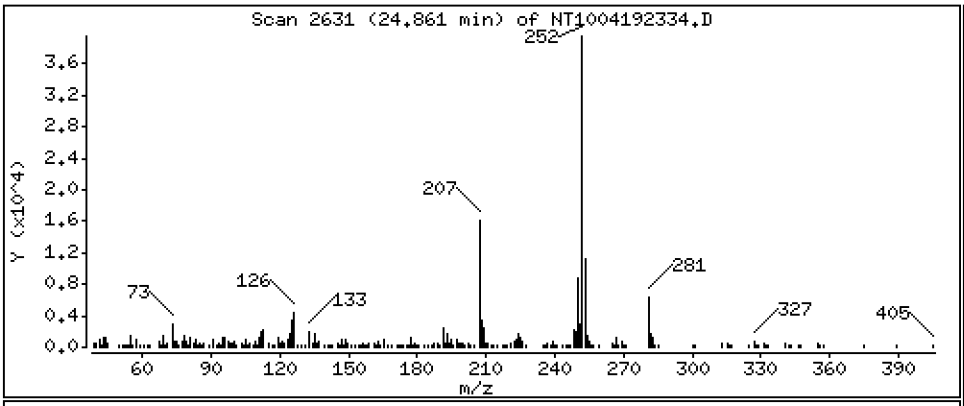
Operator: VTS

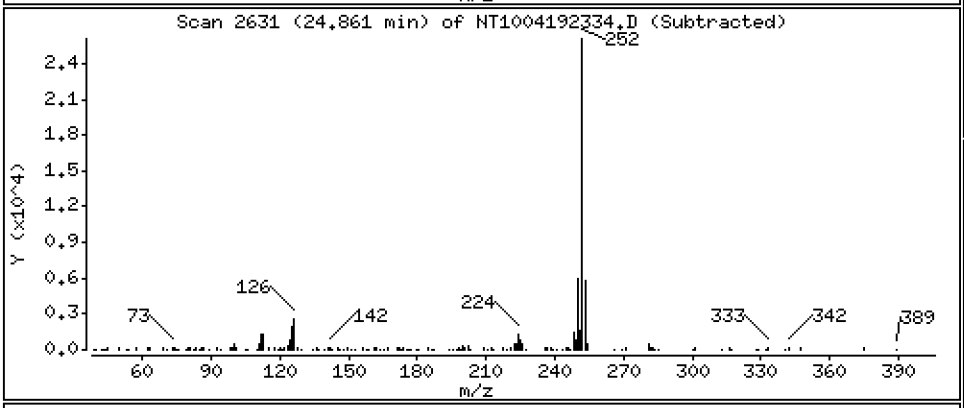
Column phase: ZB-5msi

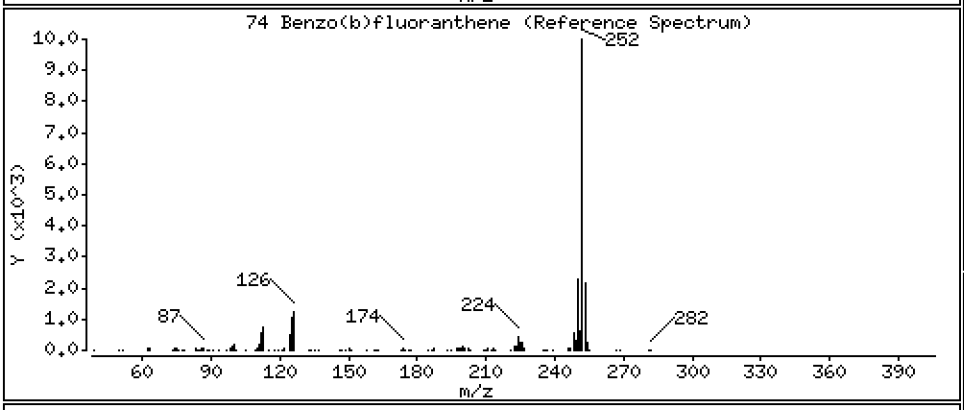
Column diameter: 0.25

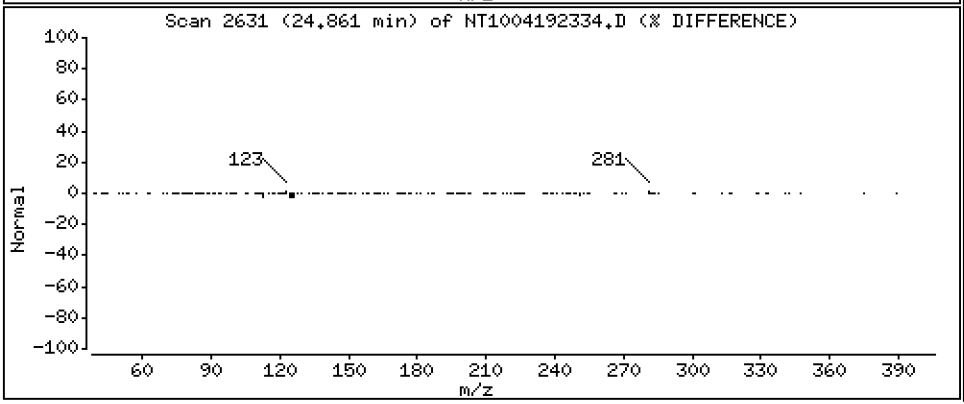
74 Benzo(b)fluoranthene

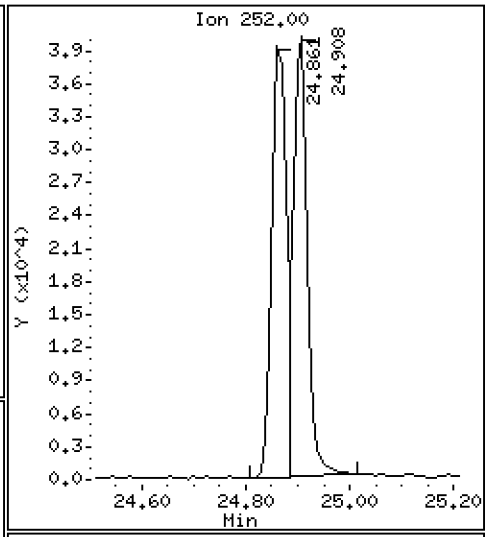
Concentration: 0.4805 ug/mL

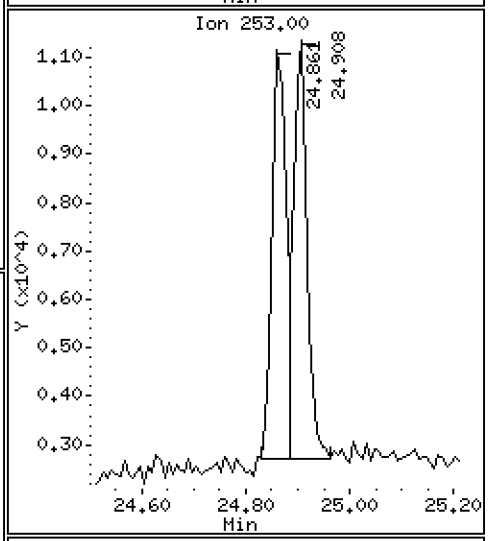


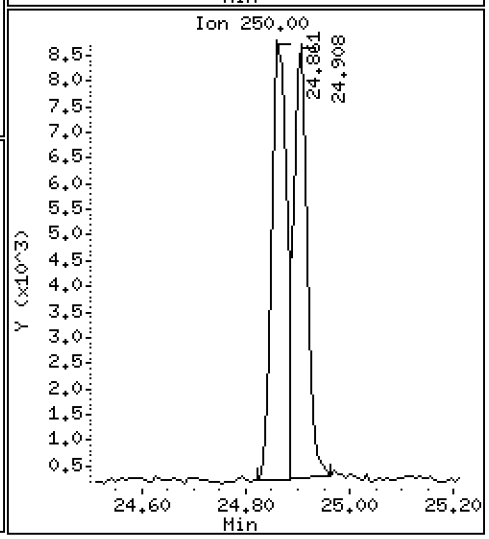












Date : 20-APR-2023 08:19

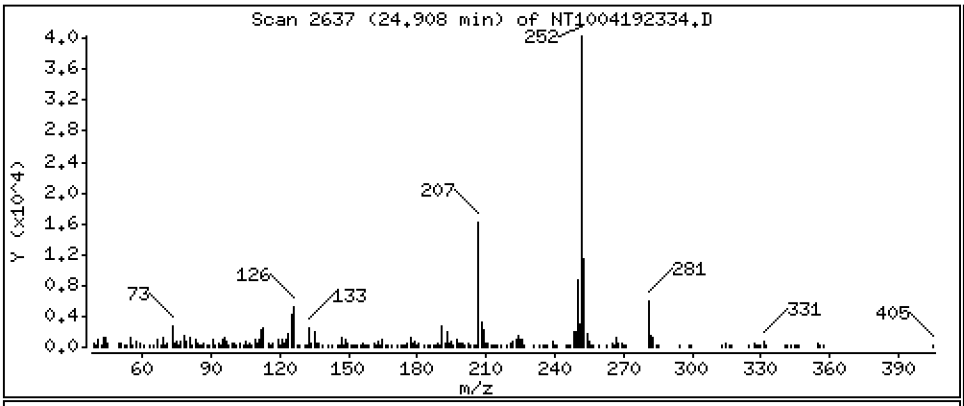
Client ID: Instrument: nt10.i

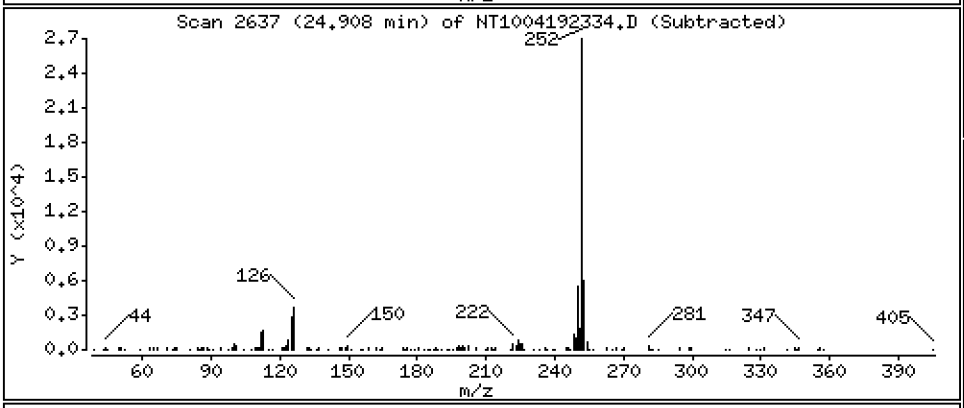
Sample Info: SLD0293-LCV1

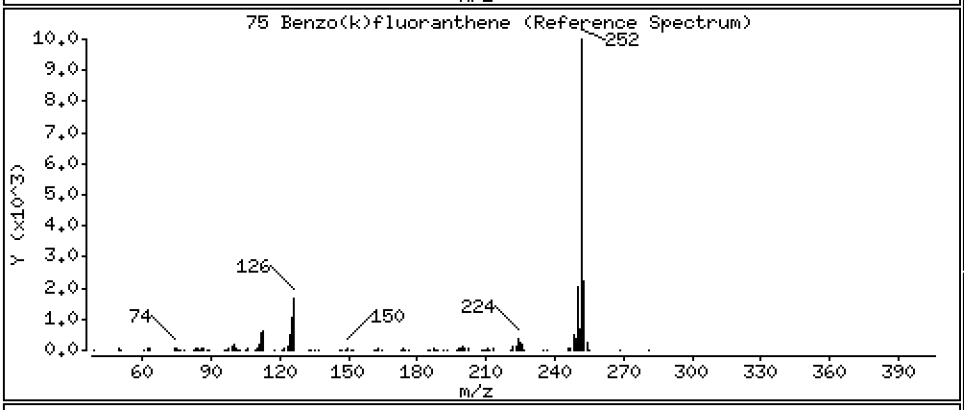
Operator: VTS

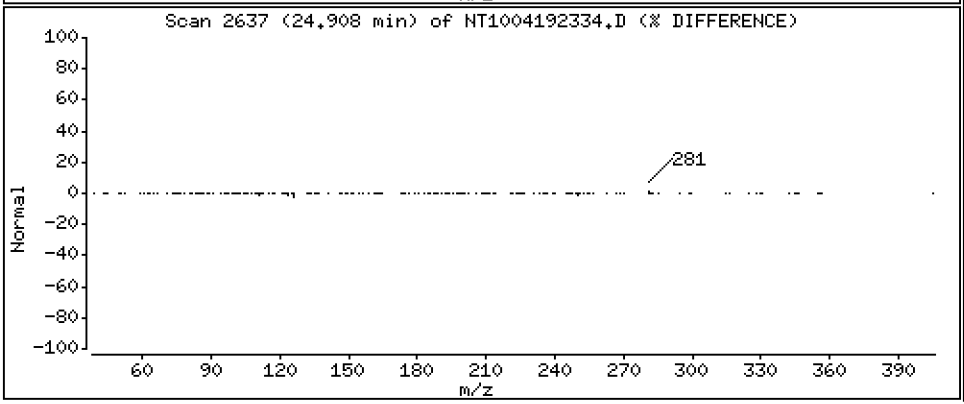
Column phase: ZB-5msi Column diameter: 0.25

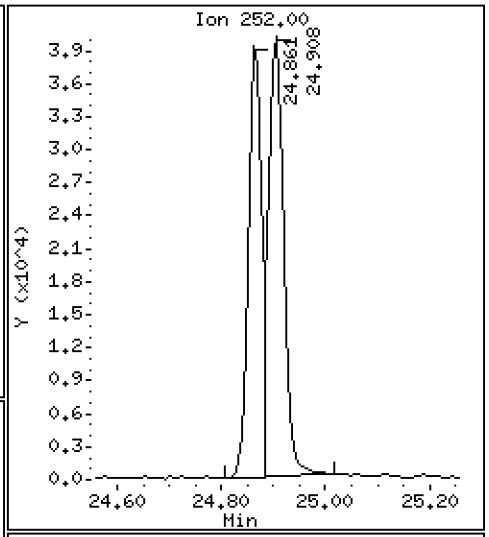
75 Benzo(k)fluoranthene Concentration: 0.5082 ug/mL

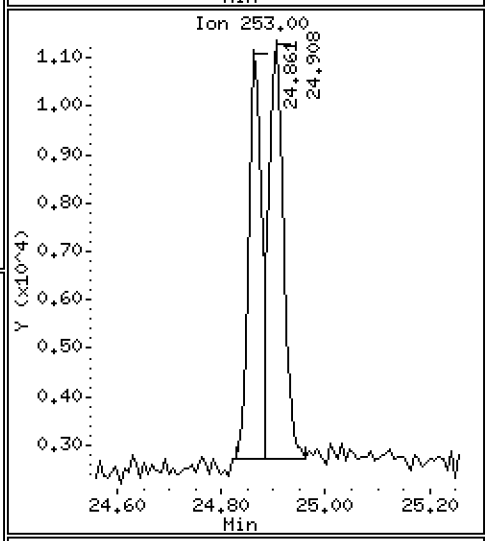


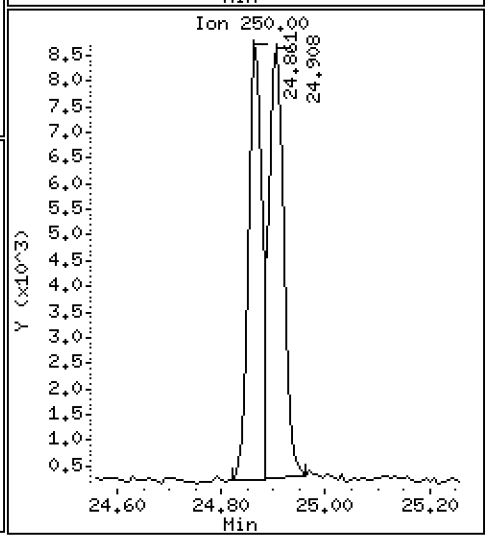












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

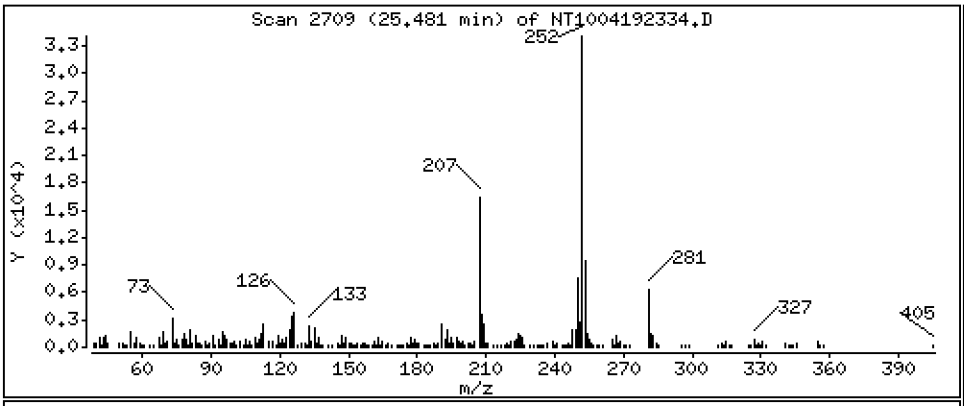
Operator: VTS

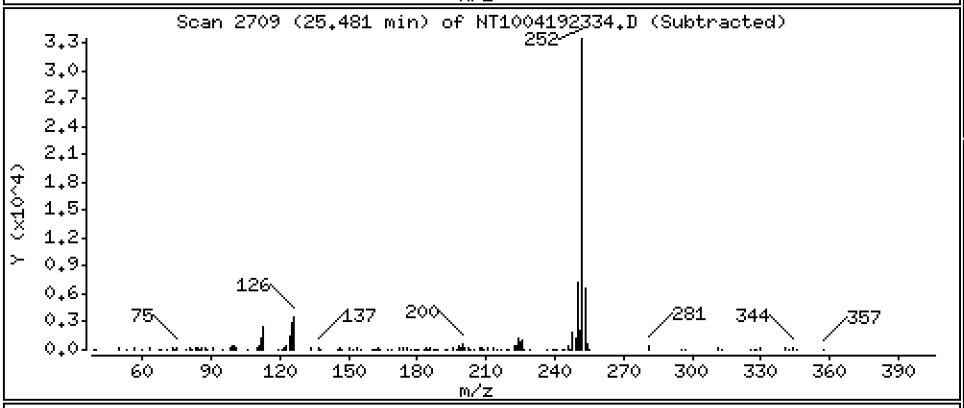
Column phase: ZB-5msi

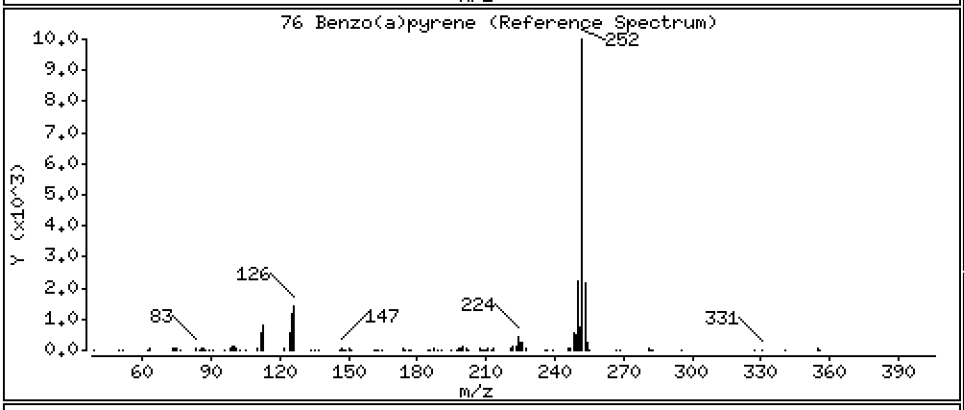
Column diameter: 0.25

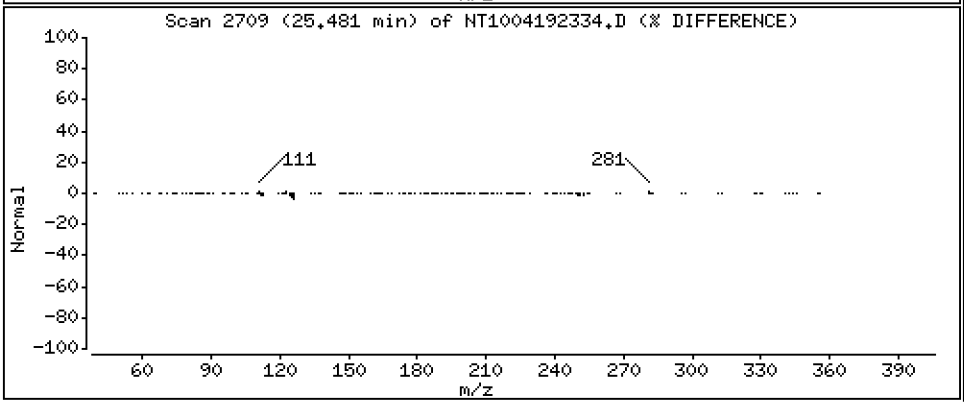
76 Benzo(a)pyrene

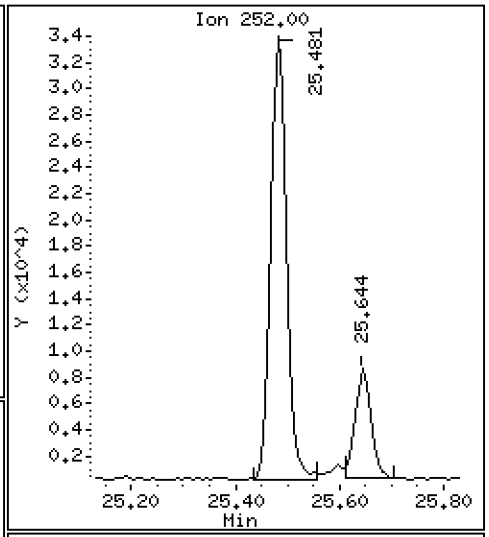
Concentration: 0.4851 ug/mL

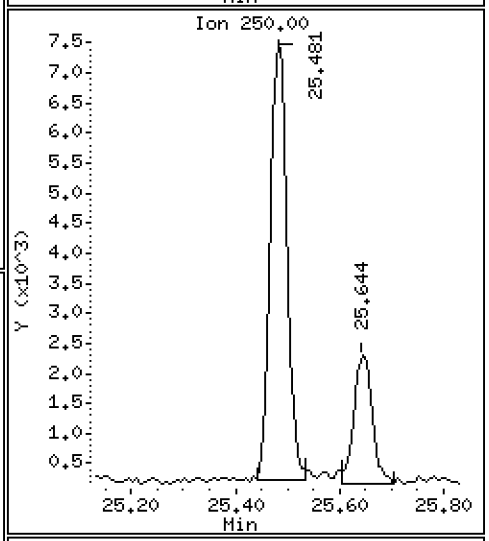


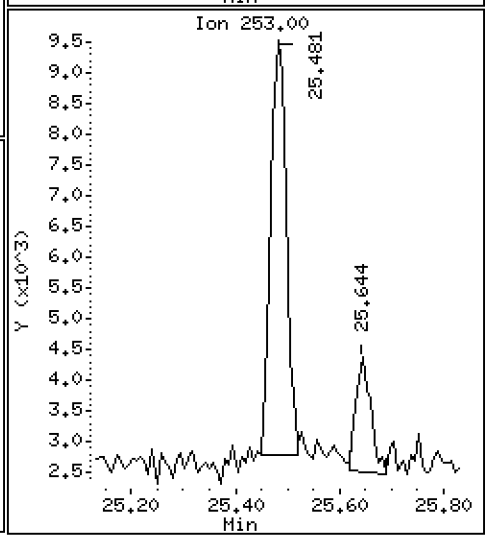












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

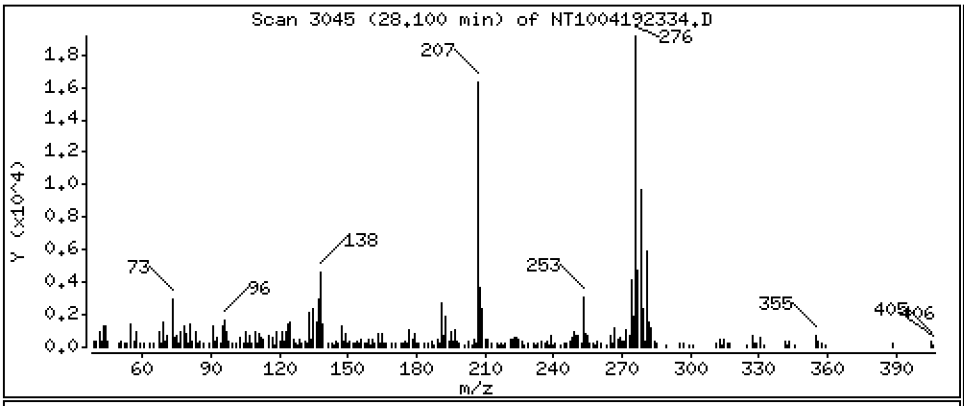
Operator: VTS

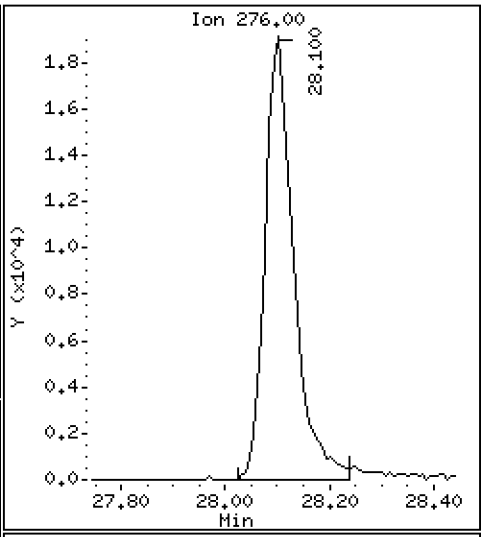
Column phase: ZB-5msi

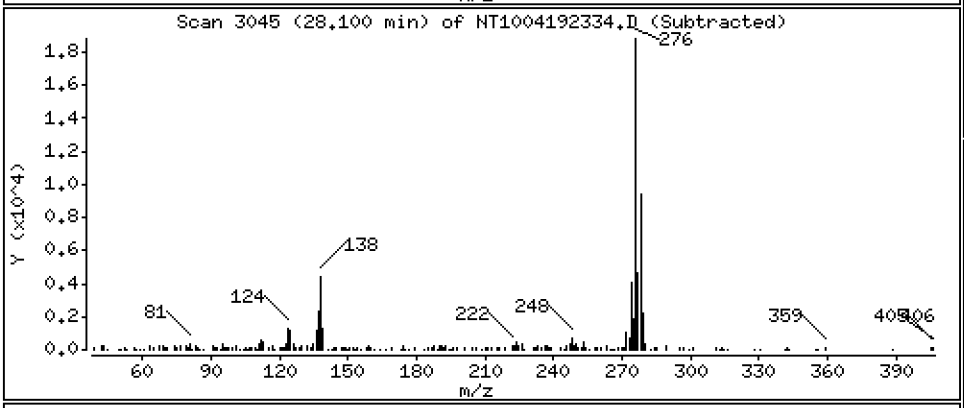
Column diameter: 0.25

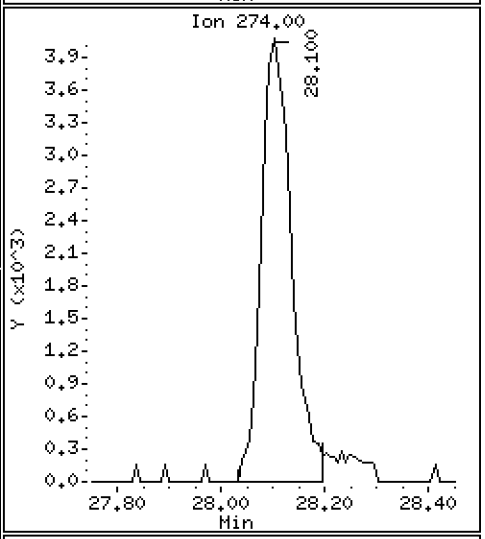
78 Indeno(1,2,3-cd)pyrene

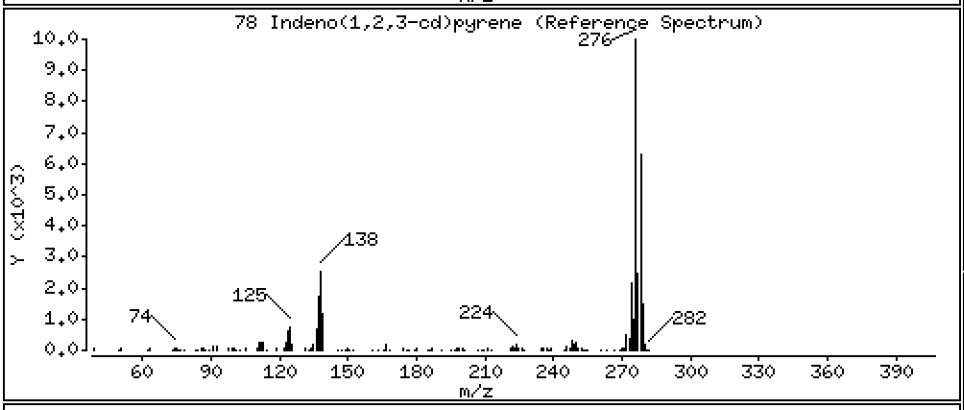
Concentration: 0.4095 ug/mL

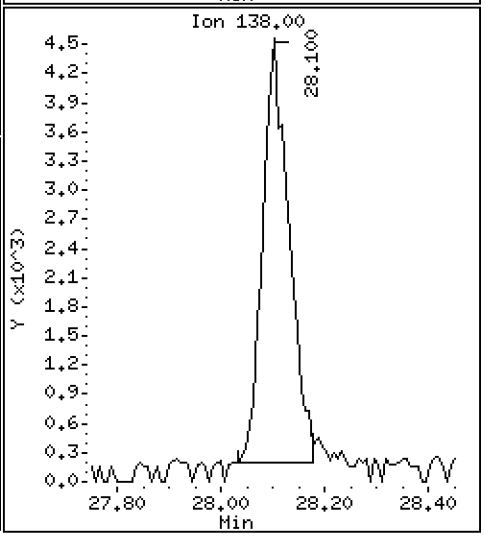


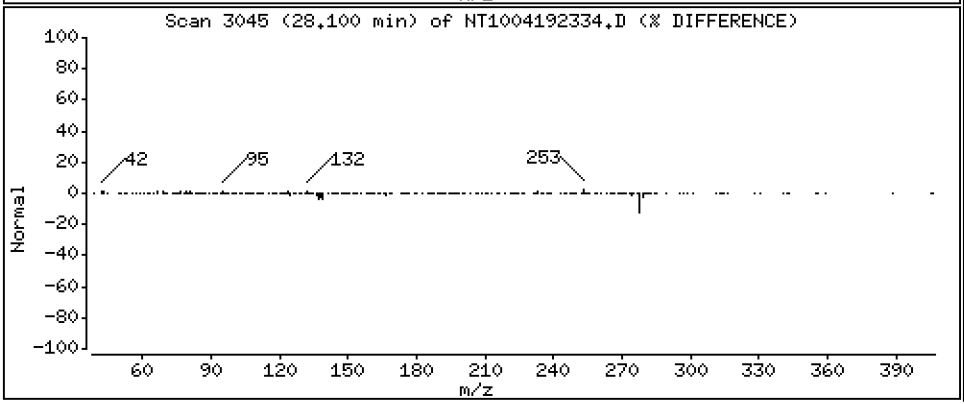












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

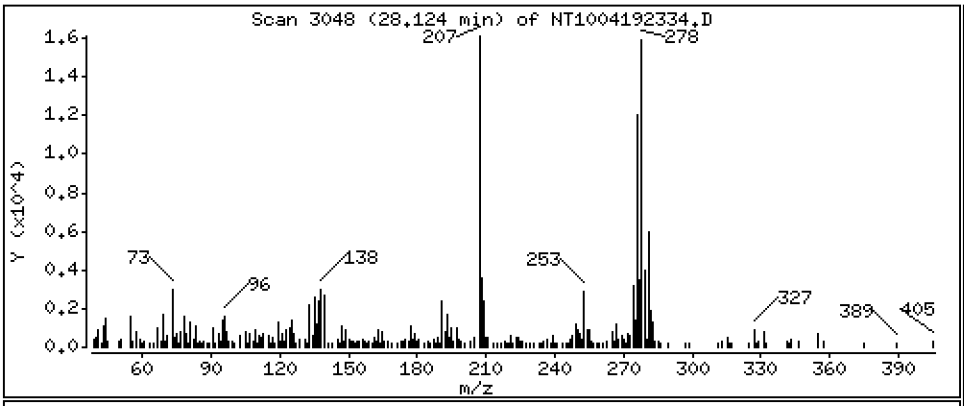
Operator: VTS

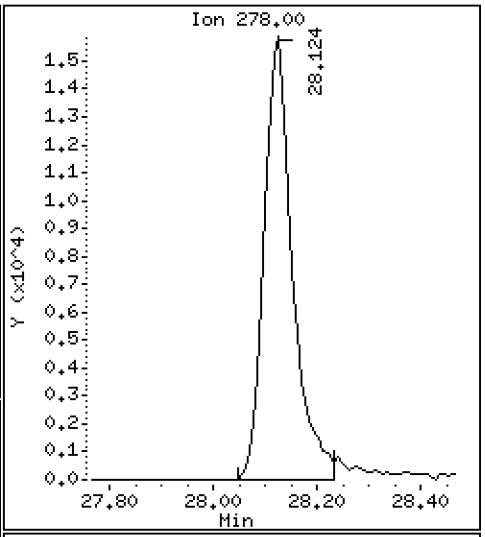
Column phase: ZB-5msi

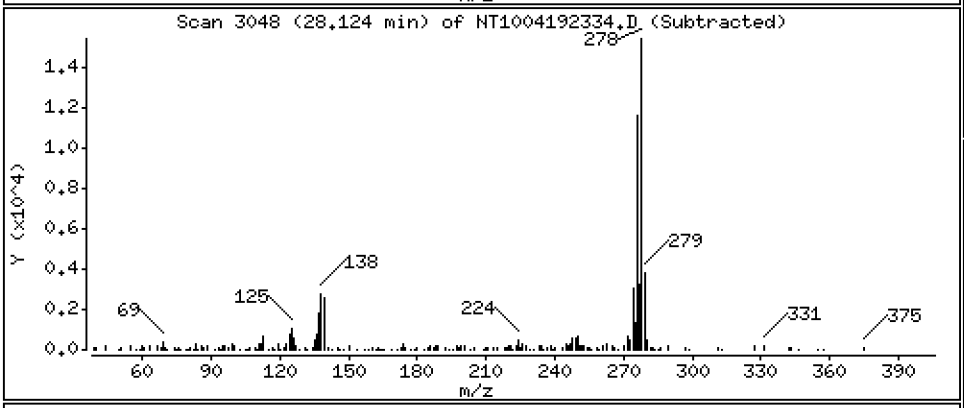
Column diameter: 0.25

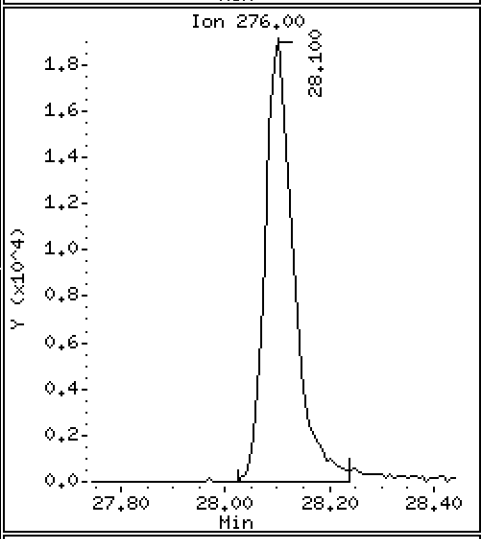
79 Dibenzo(a,h)anthracene

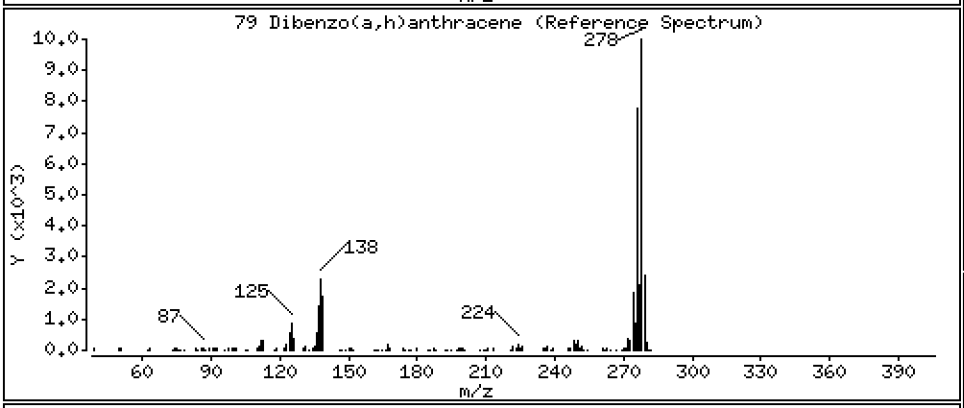
Concentration: 0.4039 ug/mL

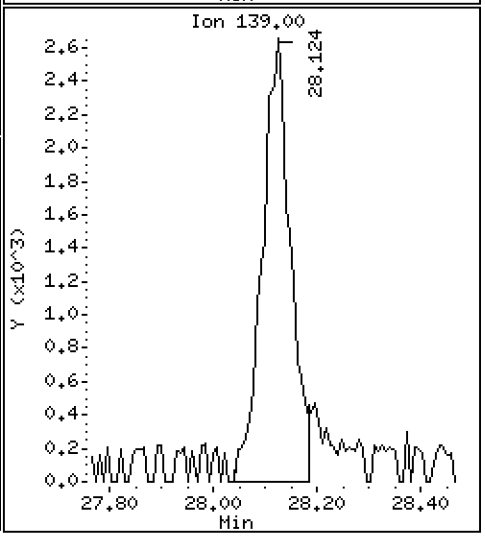


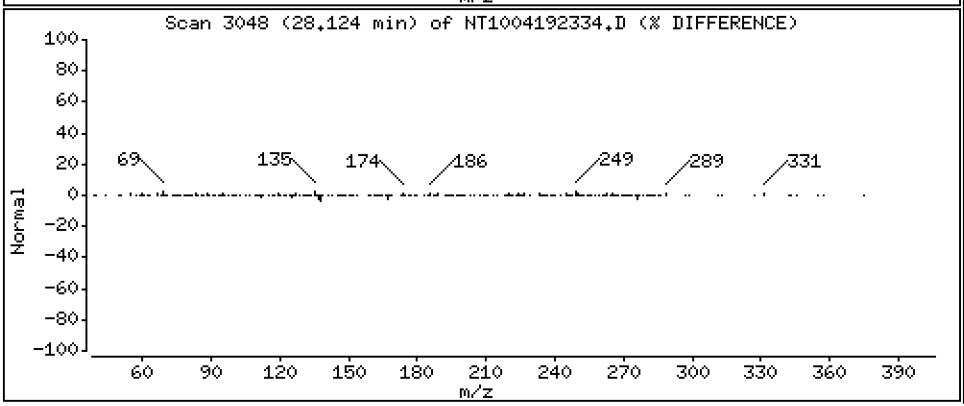












Date : 20-APR-2023 08:19

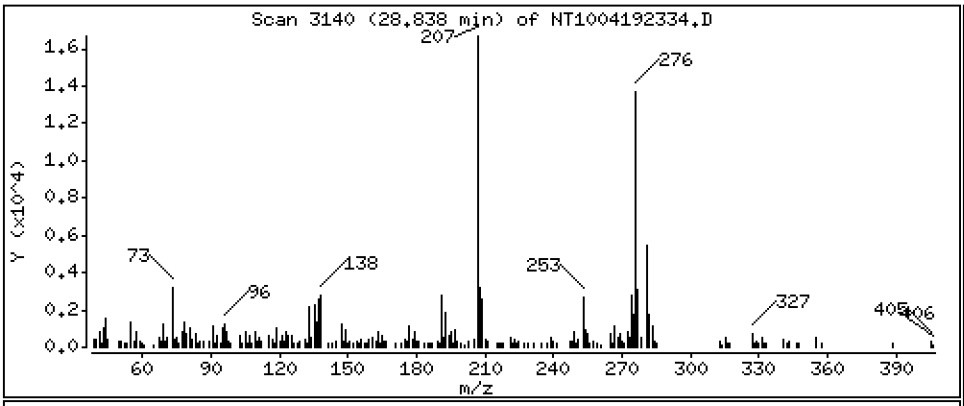
Client ID: Instrument: nt10.i

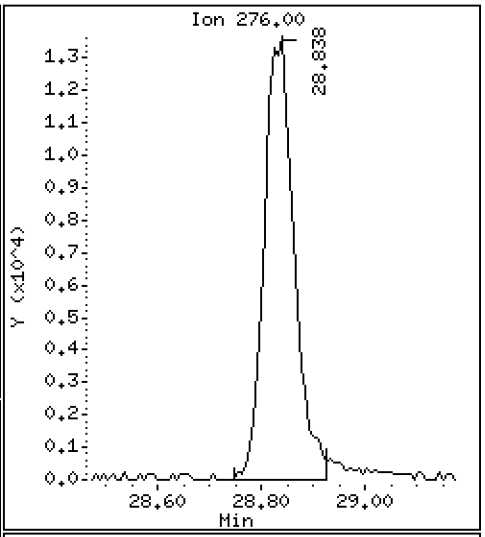
Sample Info: SLD0293-LCV1

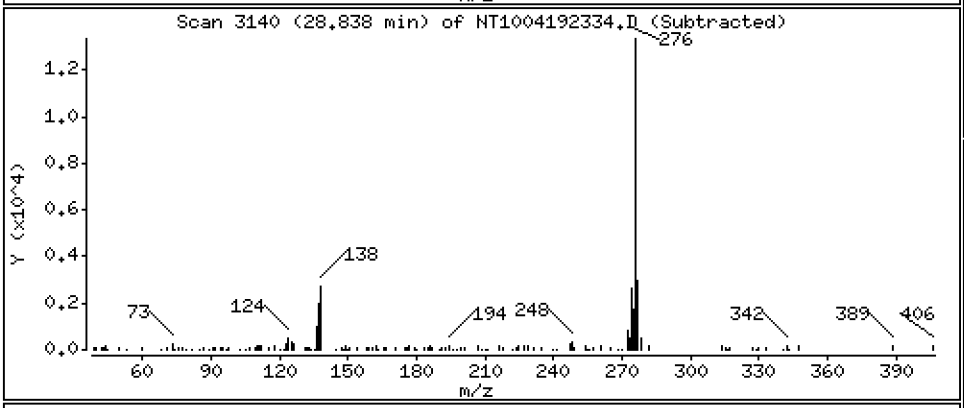
Operator: VTS

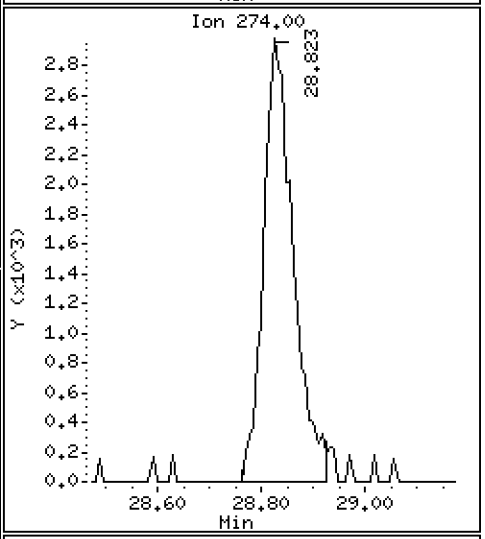
Column phase: ZB-5msi Column diameter: 0.25

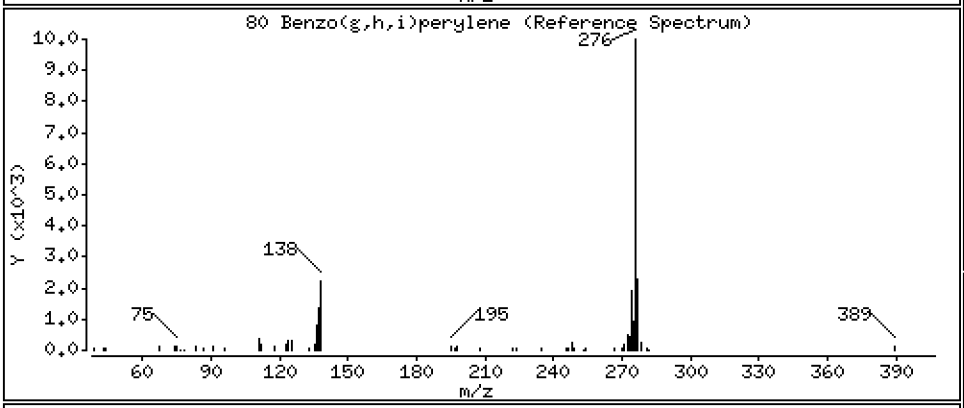
80 Benzo(g,h,i)perylene Concentration: 0.3540 ug/mL

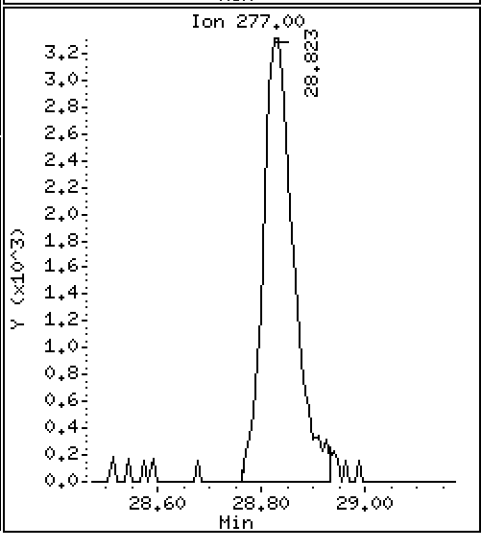


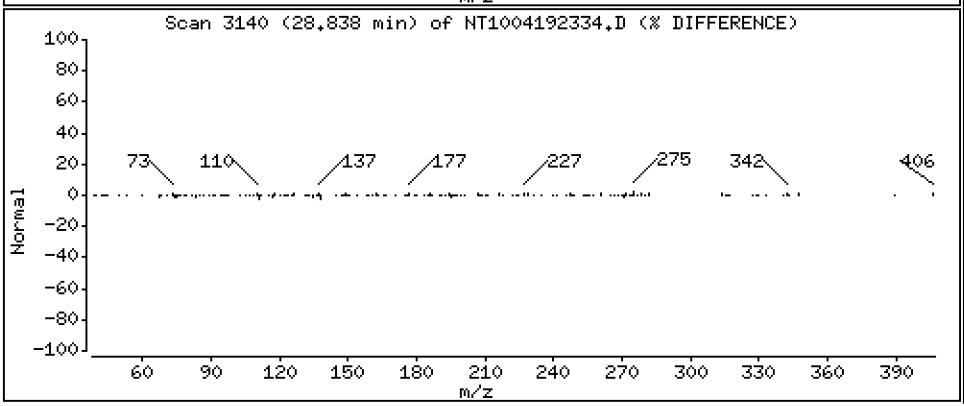












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192334.D

Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

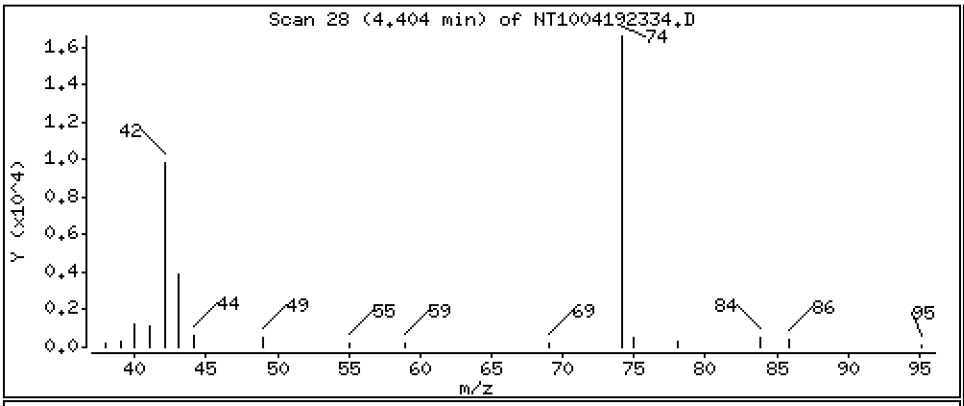
Operator: VTS

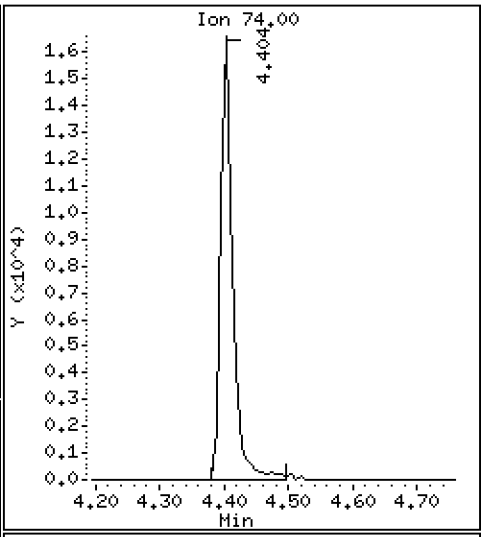
Column phase: ZB-5msi

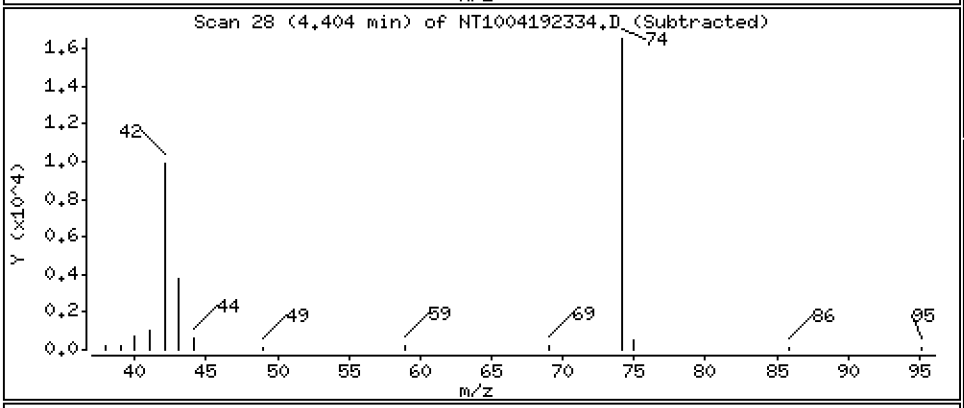
Column diameter: 0.25

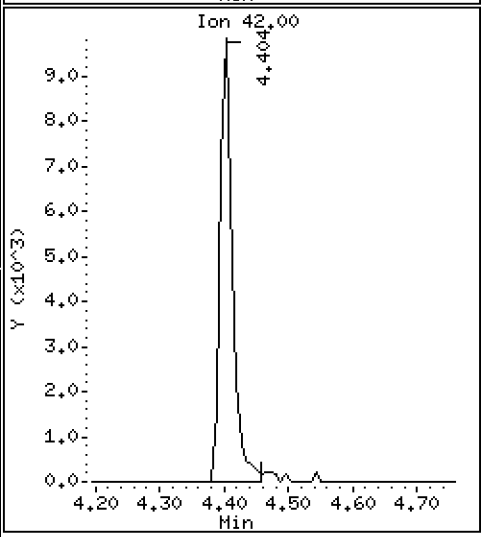
90 N-Nitrosodimethylamine

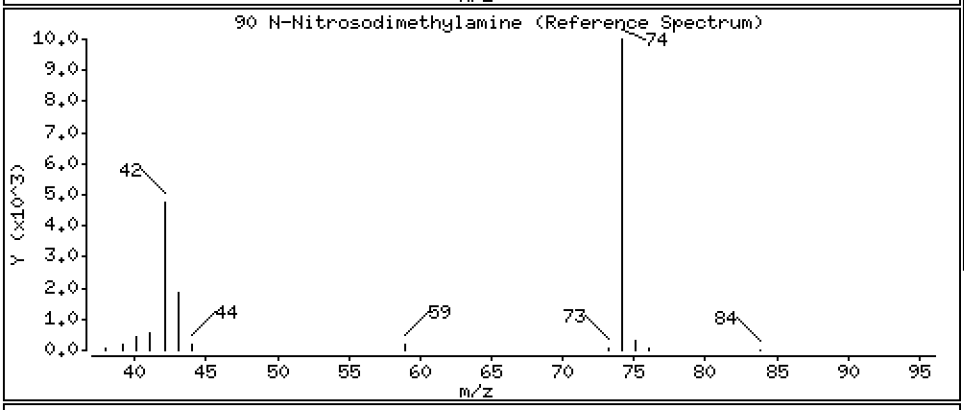
Concentration: 0.8560 ug/mL

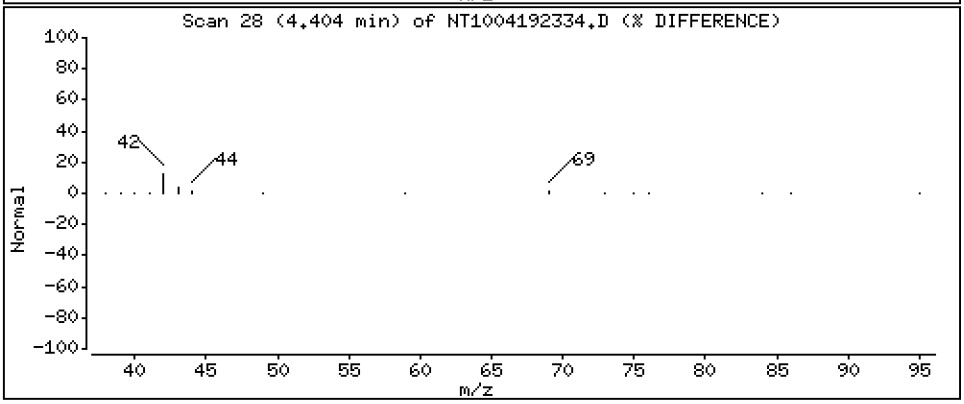












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

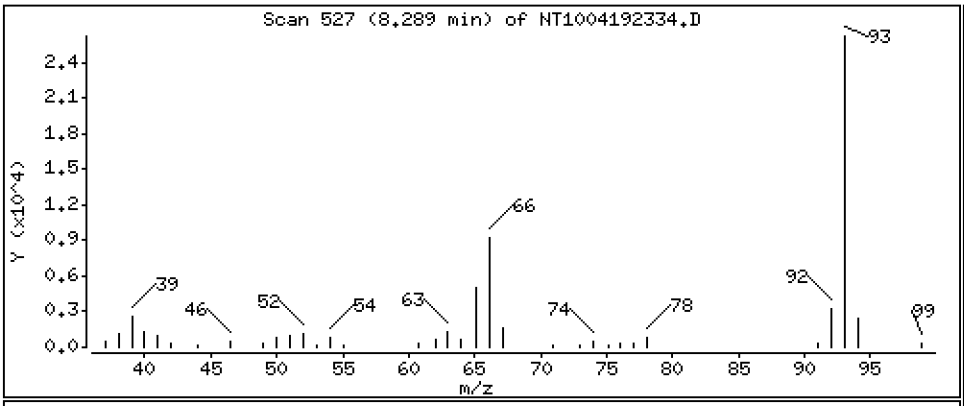
Operator: VTS

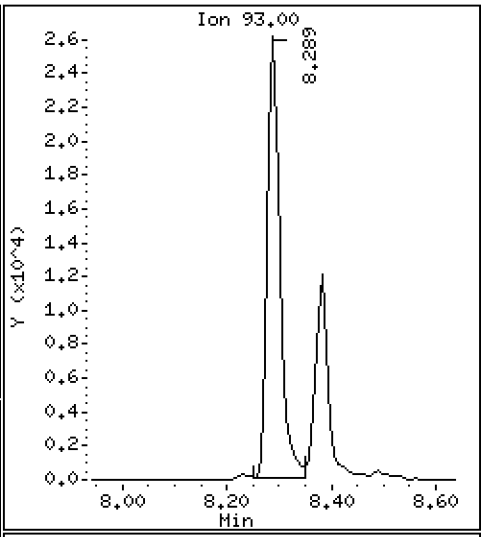
Column phase: ZB-5msi

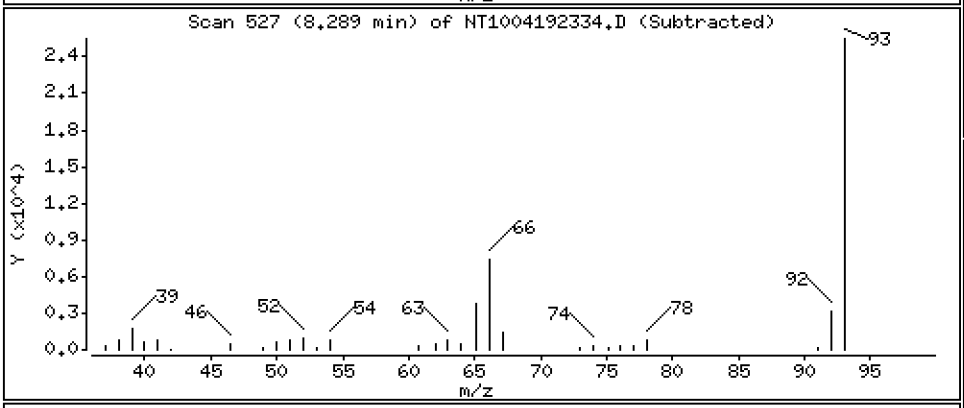
Column diameter: 0.25

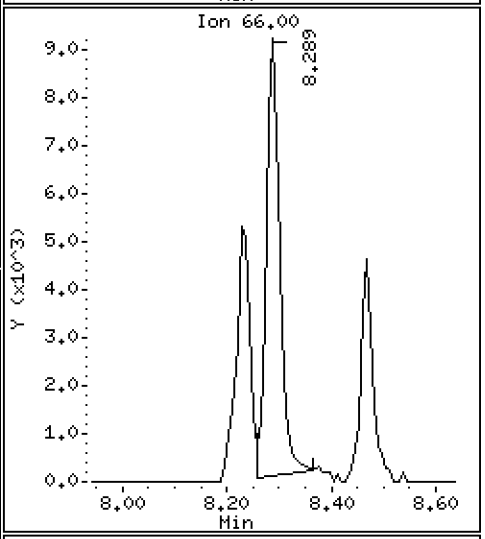
91 Aniline

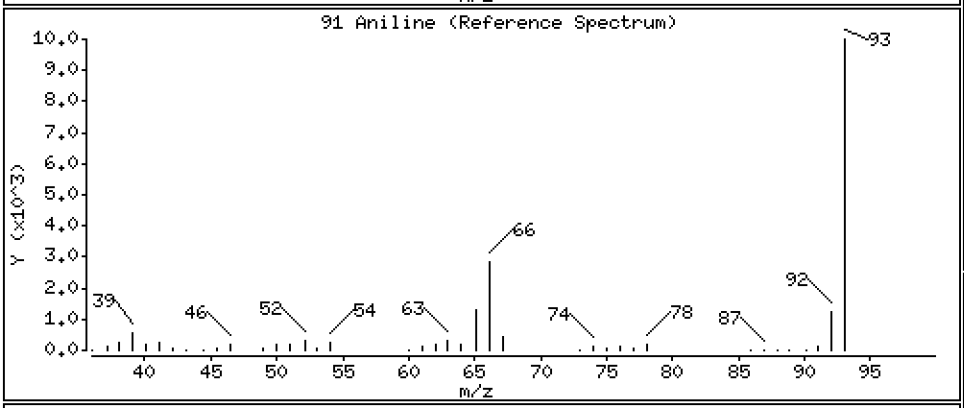
Concentration: 0.7386 ug/mL

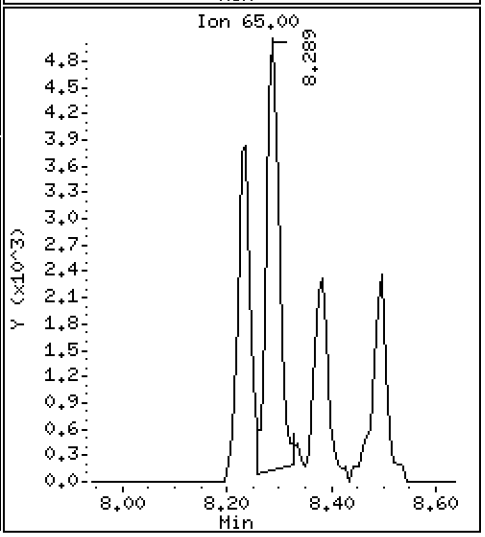


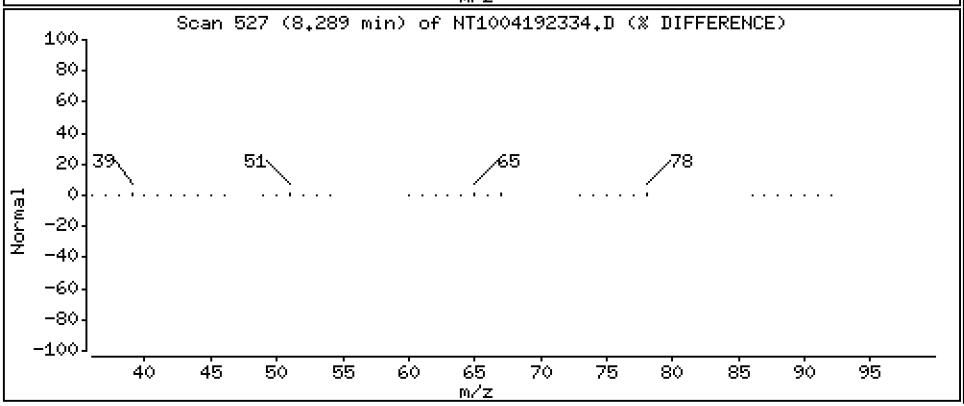












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192334.D

Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

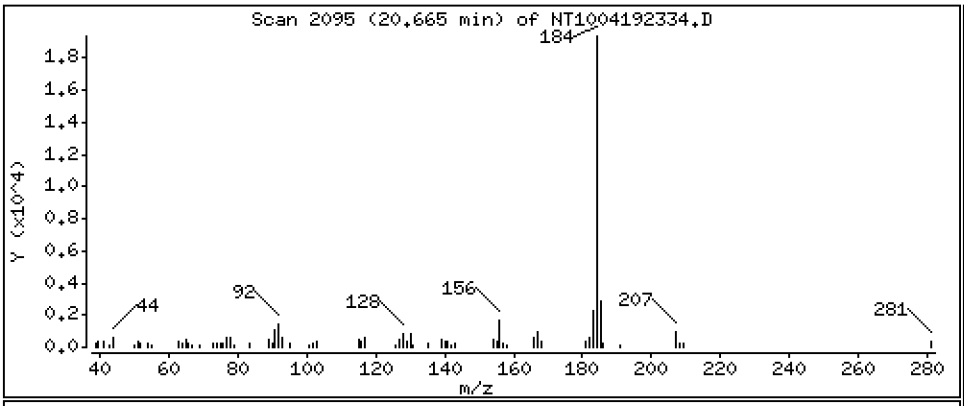
Operator: VTS

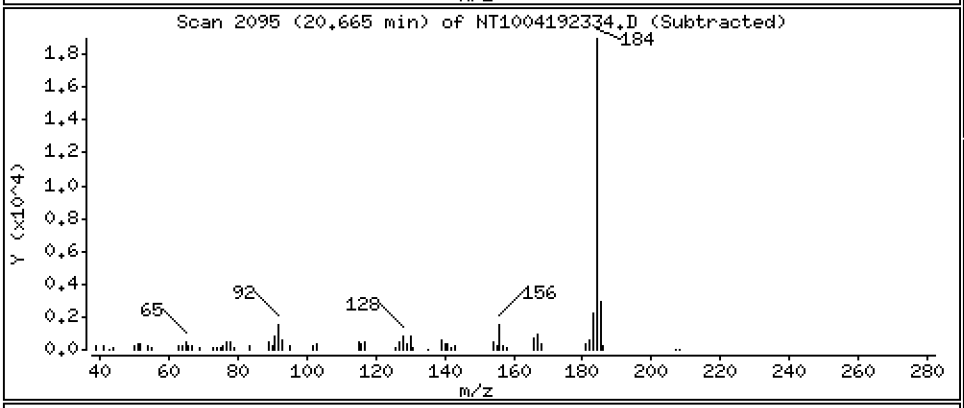
Column phase: ZB-5msi

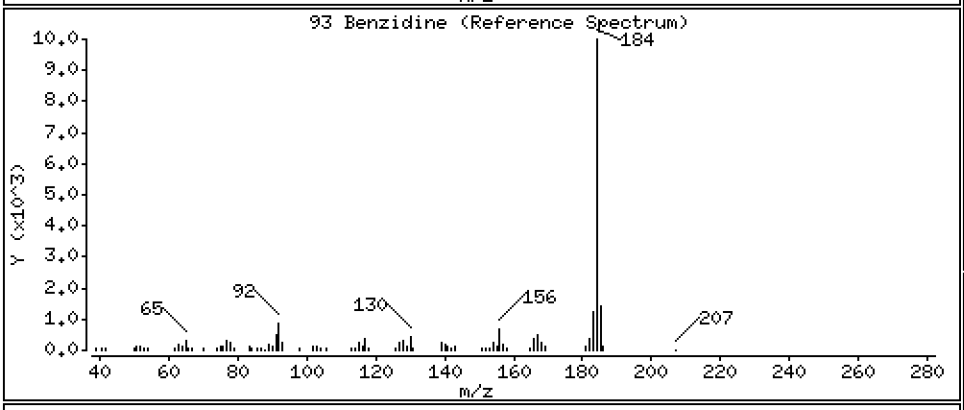
Column diameter: 0.25

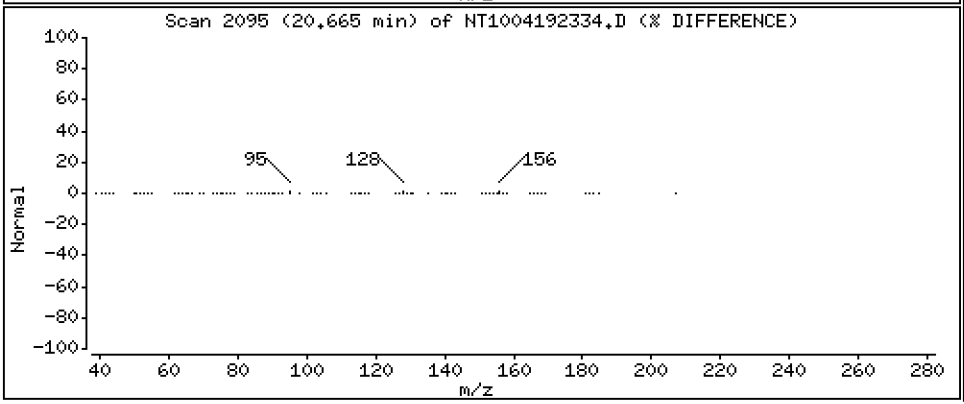
93 Benzidine

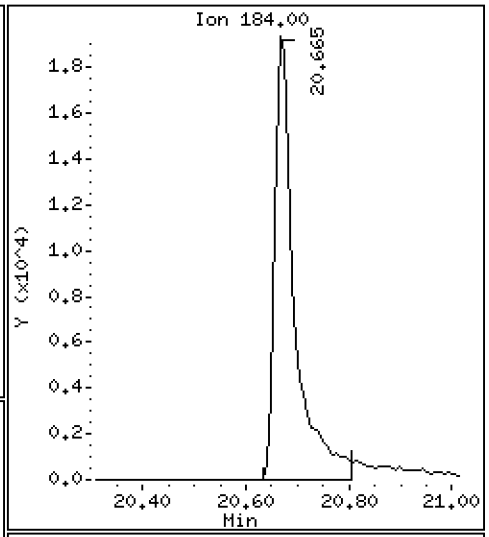
Concentration: 0.7135 ug/mL

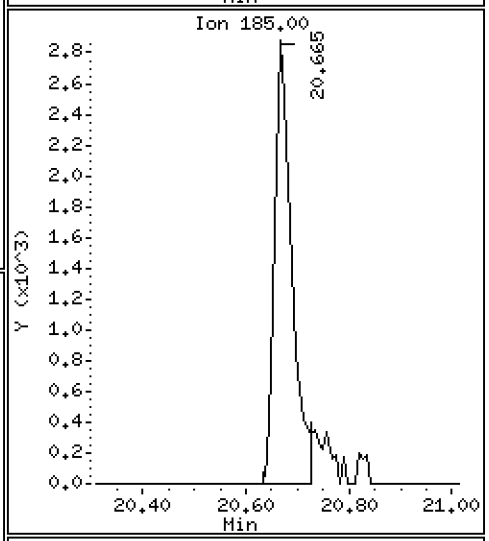


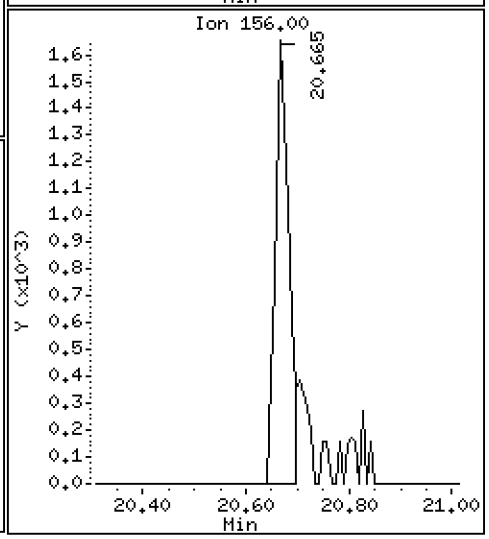












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

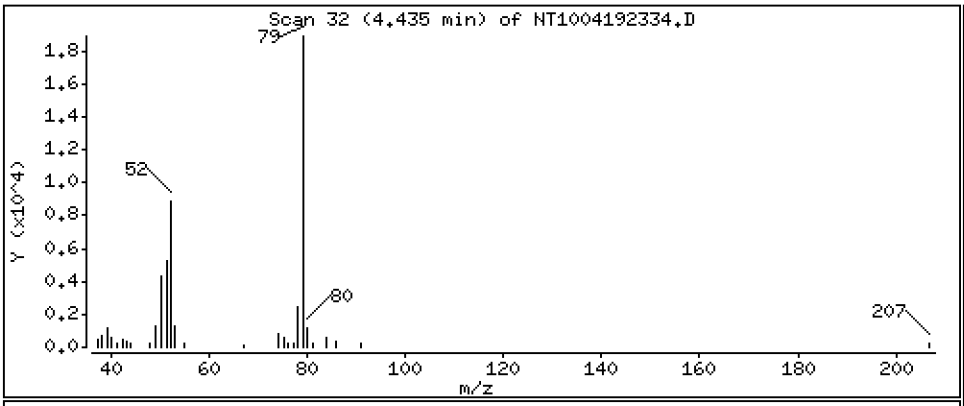
Operator: VTS

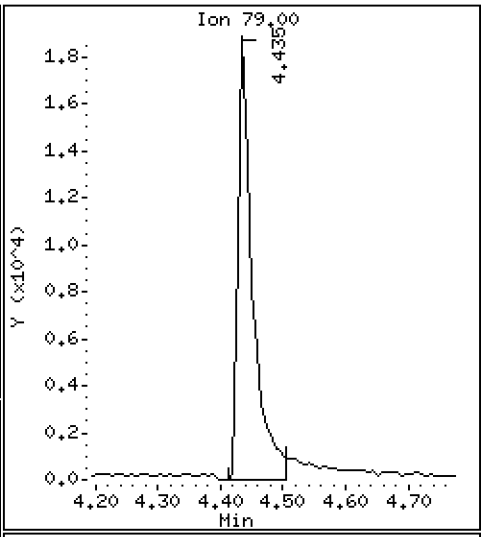
Column phase: ZB-5msi

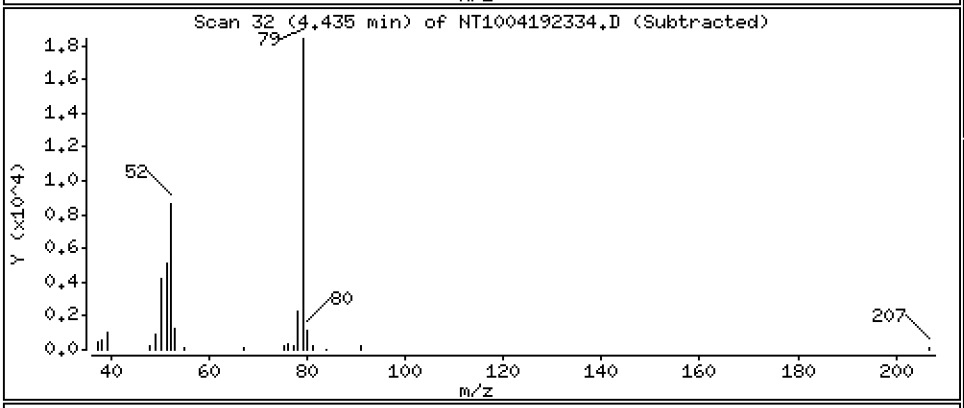
Column diameter: 0.25

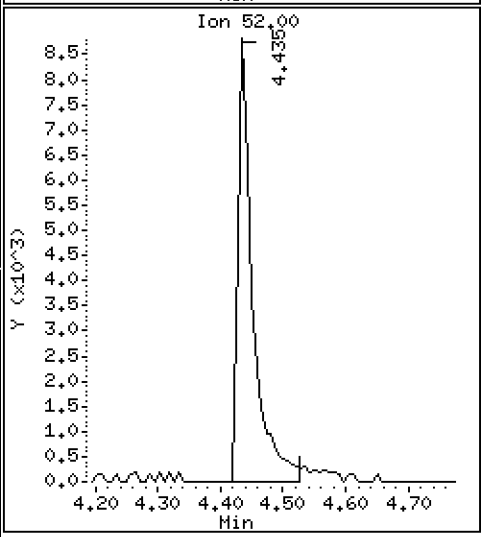
103 Pyridine

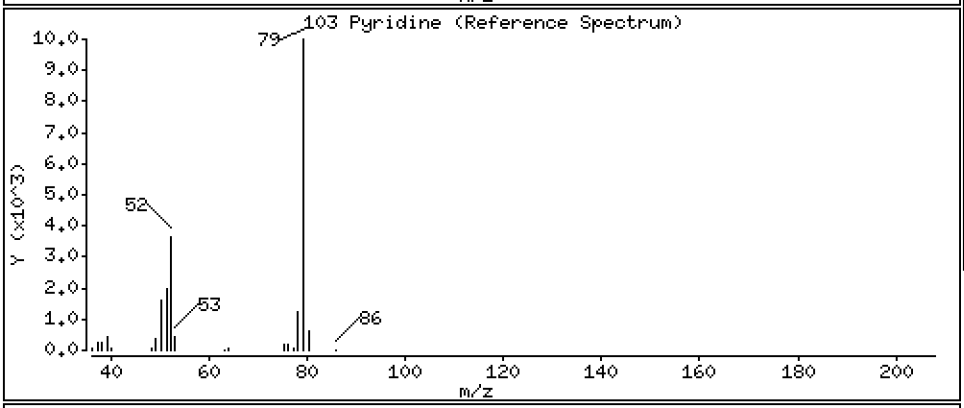
Concentration: 0.7840 ug/mL

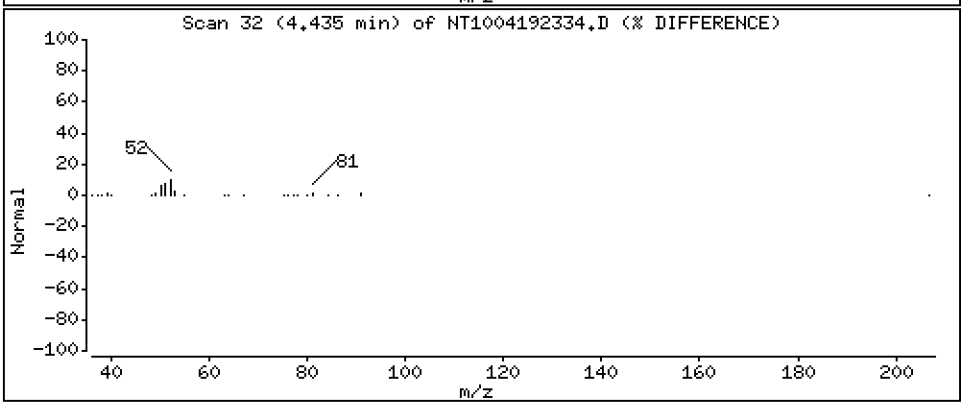












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192334.D

Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

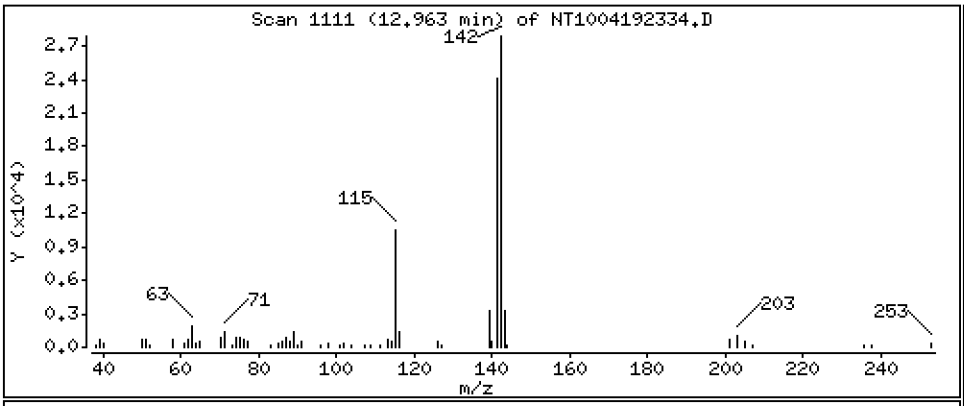
Operator: VTS

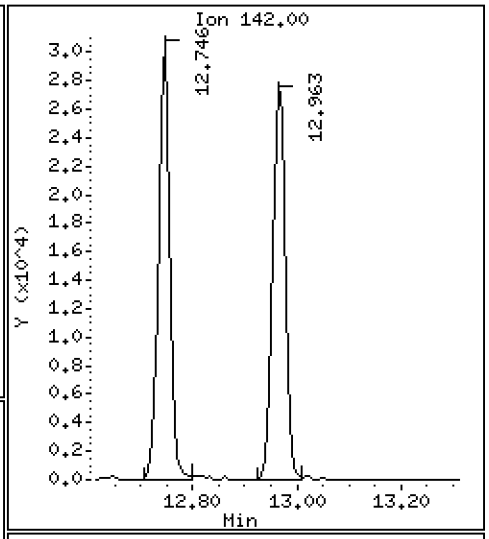
Column phase: ZB-5msi

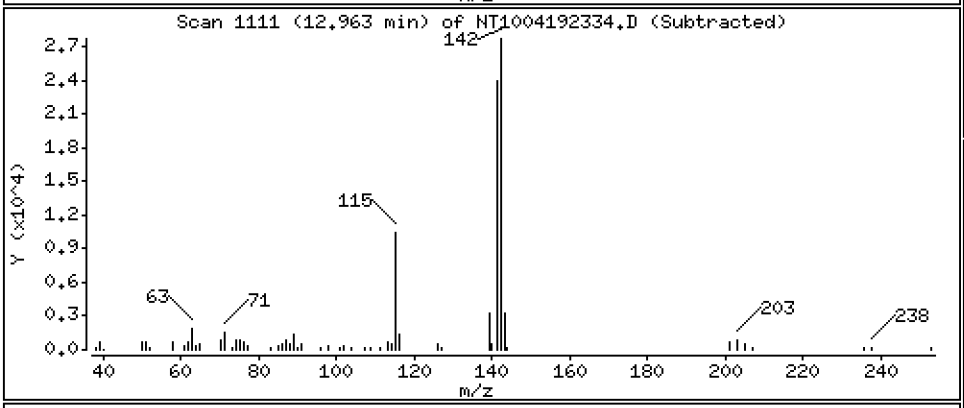
Column diameter: 0.25

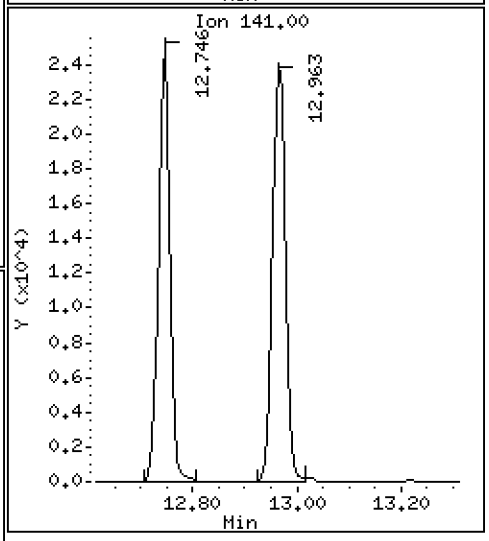
105 1-methylnaphthalene

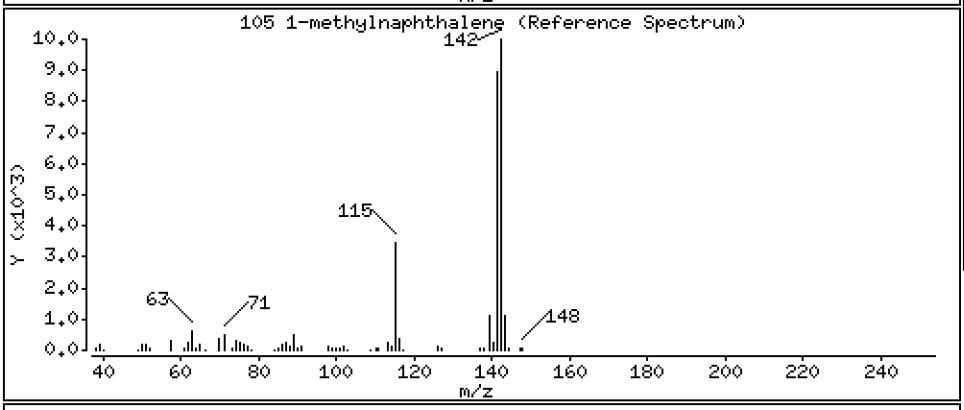
Concentration: 0.5397 ug/mL

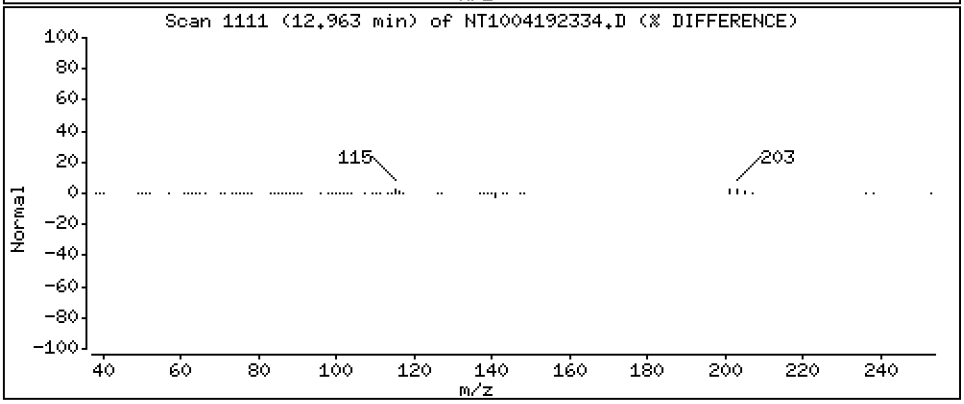












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

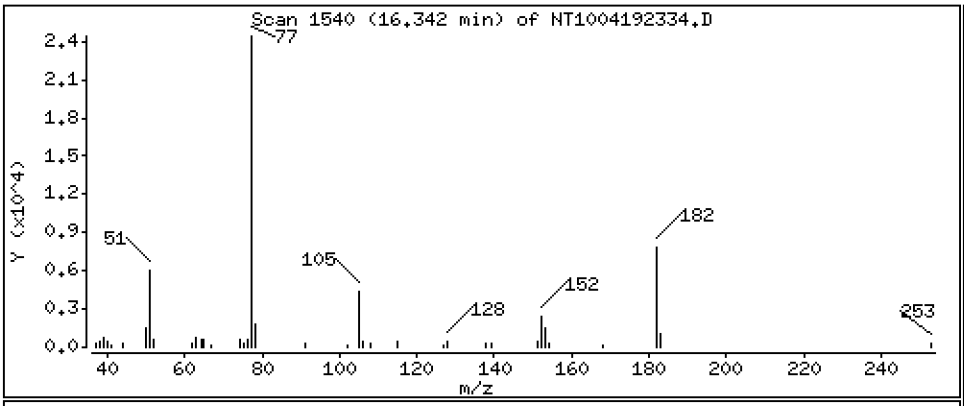
Operator: VTS

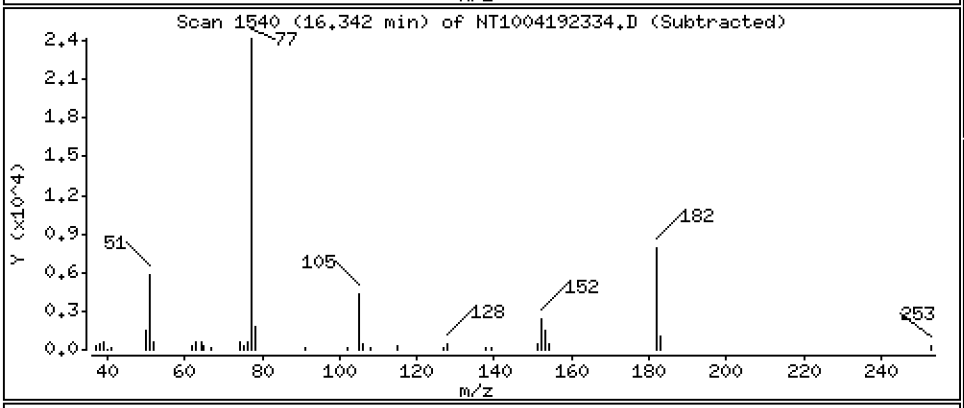
Column phase: ZB-5msi

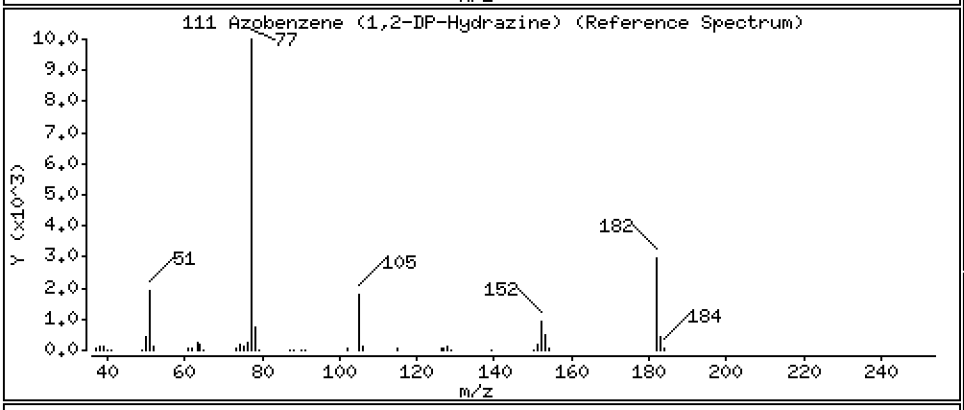
Column diameter: 0.25

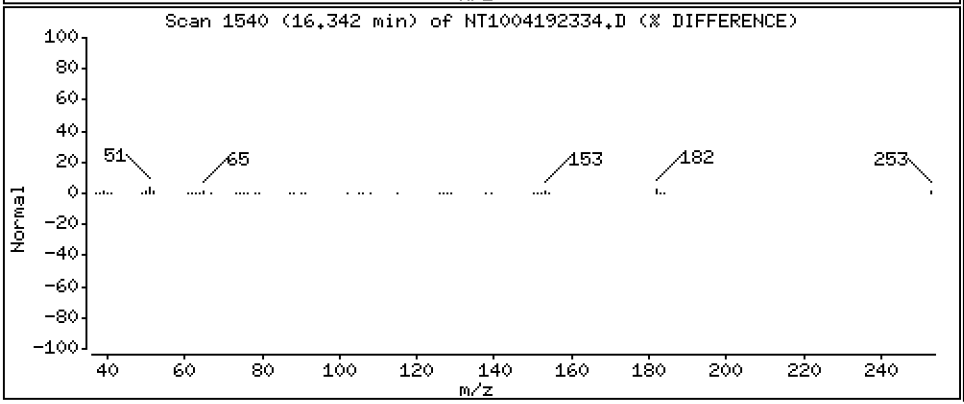
111 Azobenzene (1,2-DP-Hydrazine)

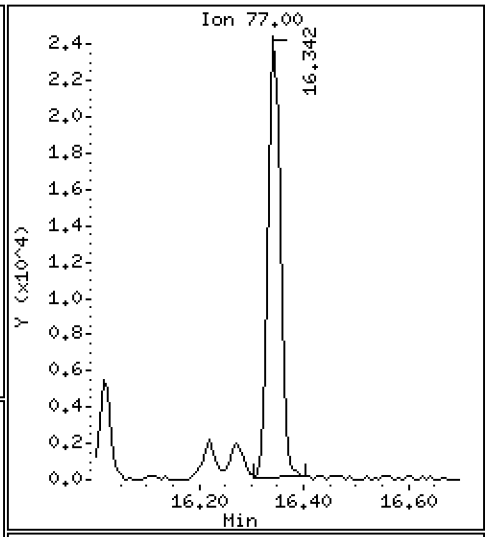
Concentration: 0.3889 ug/mL

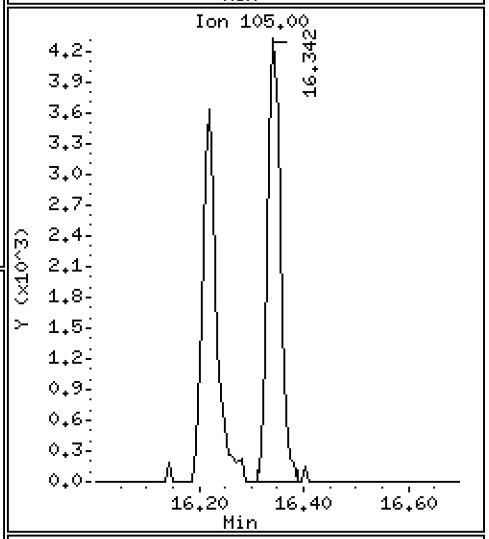


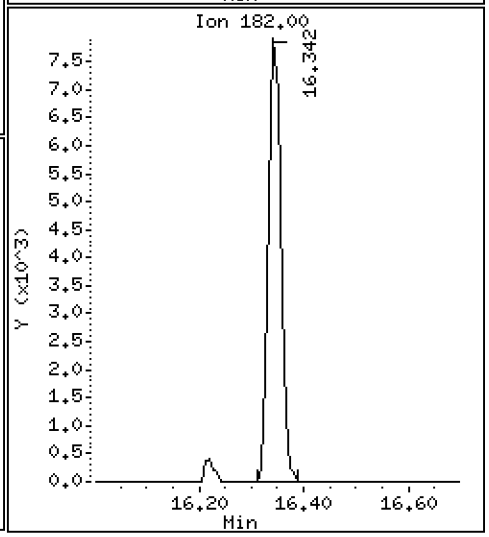












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192334.D

Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

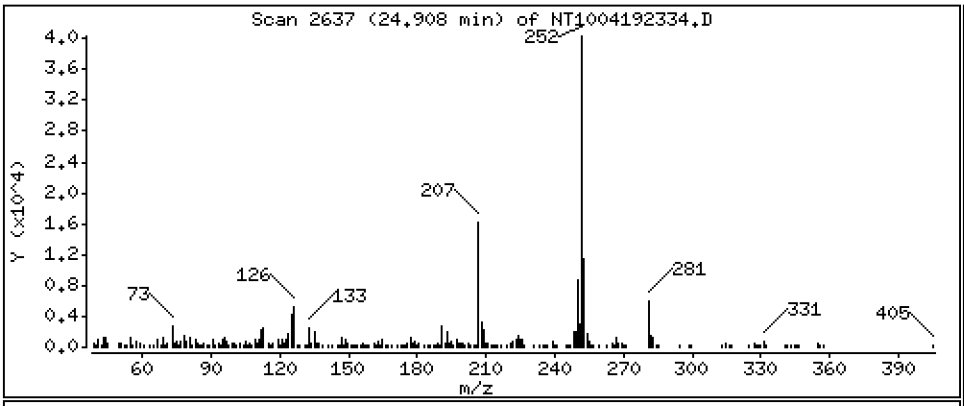
Operator: VTS

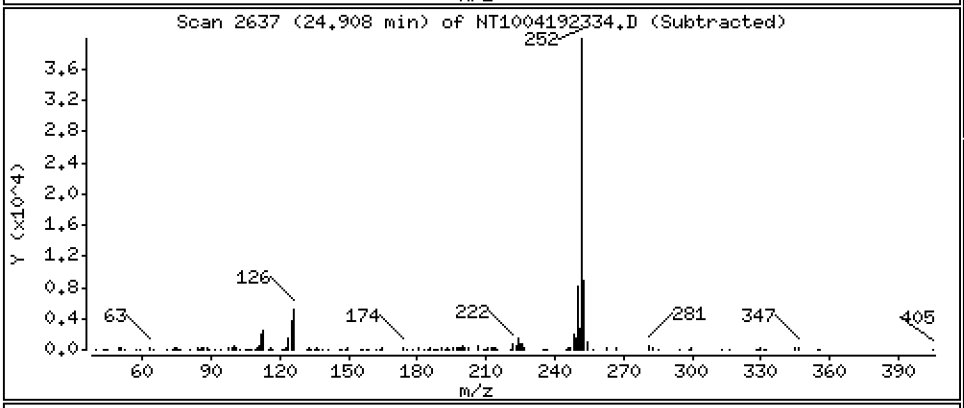
Column phase: ZB-5msi

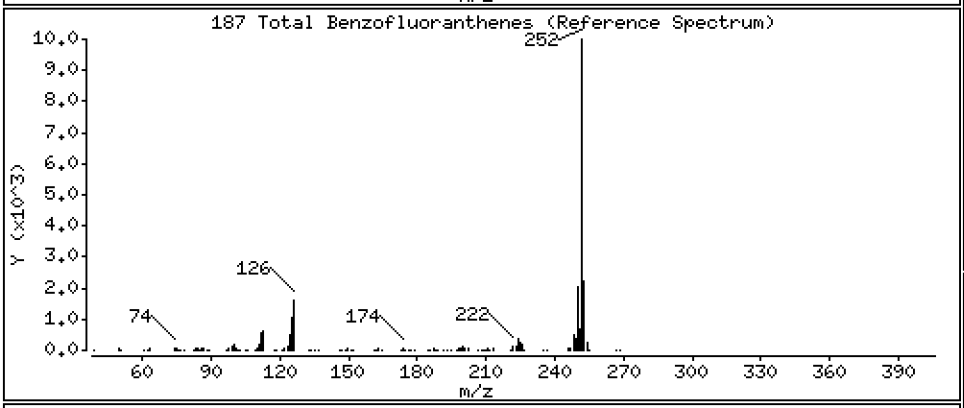
Column diameter: 0.25

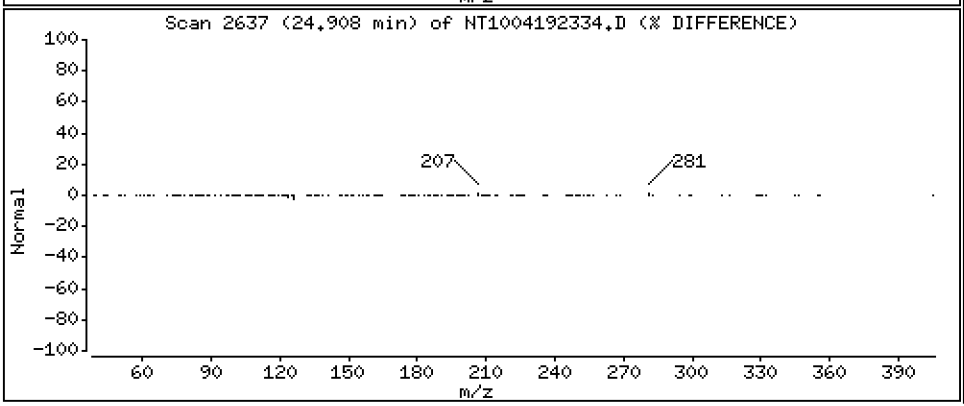
187 Total Benzofluoranthenes

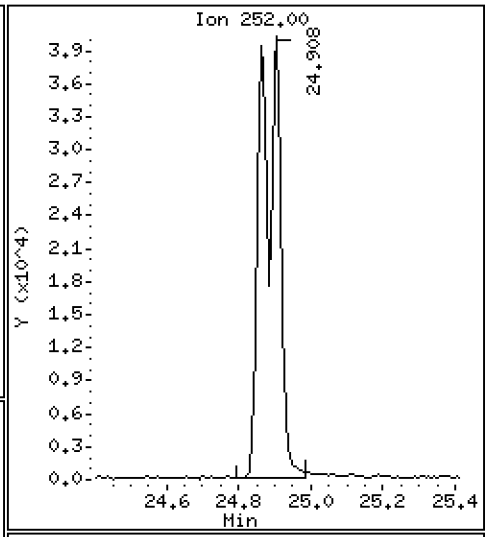
Concentration: 0.9810 ug/mL

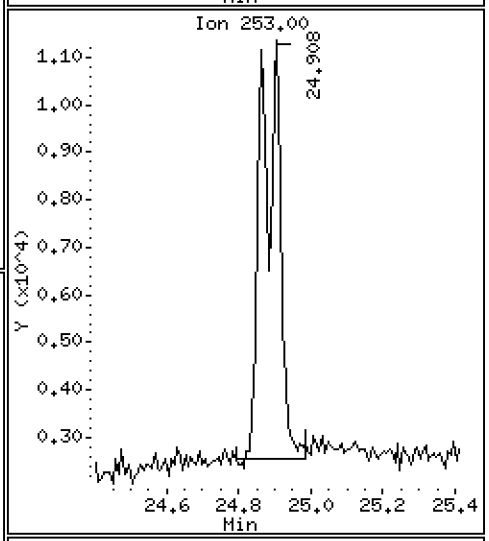


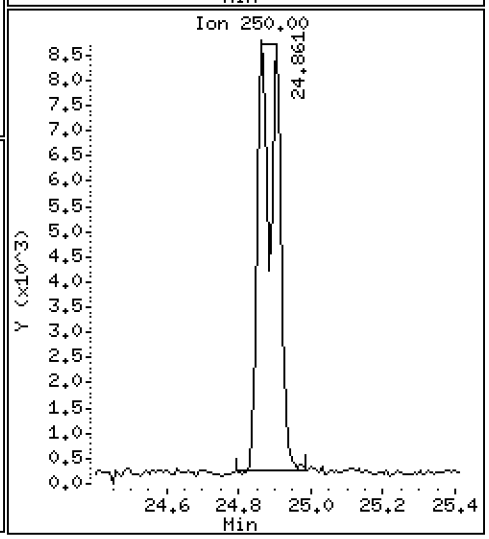












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192334.D

Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

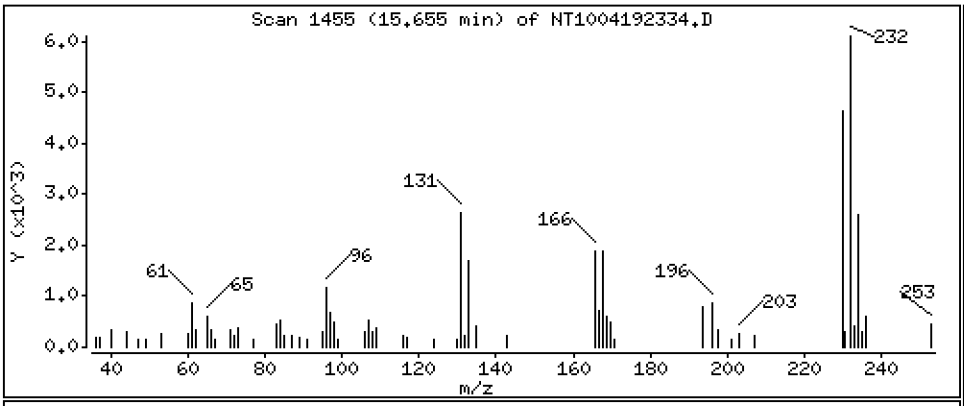
Operator: VTS

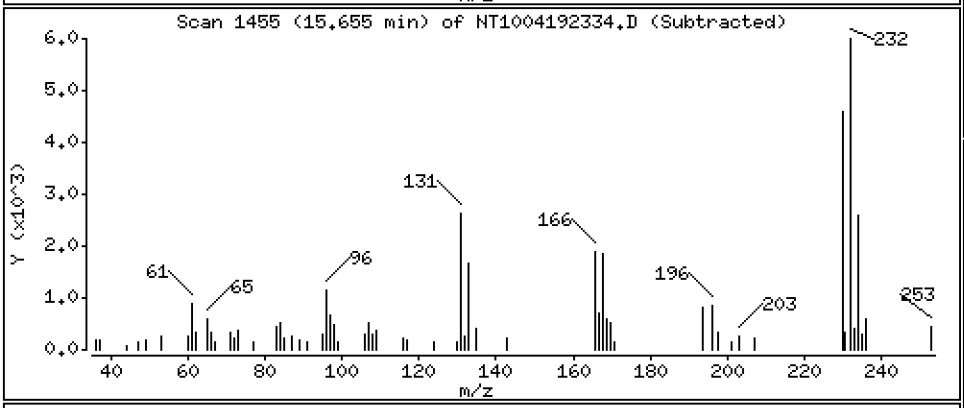
Column phase: ZB-5msi

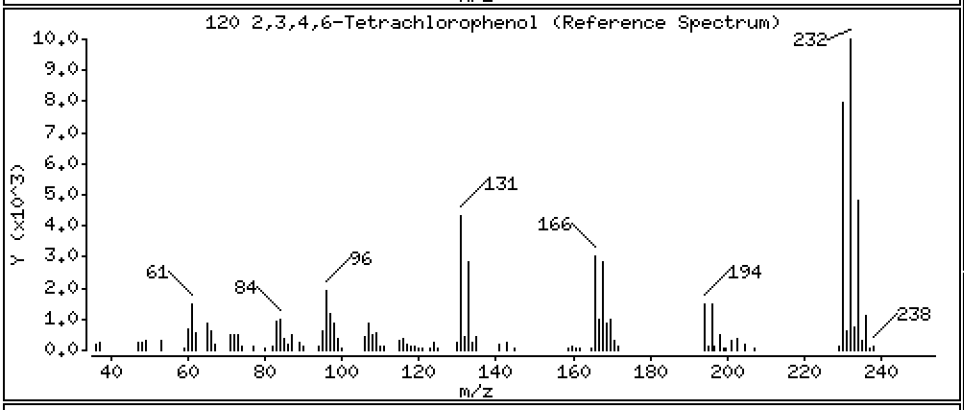
Column diameter: 0.25

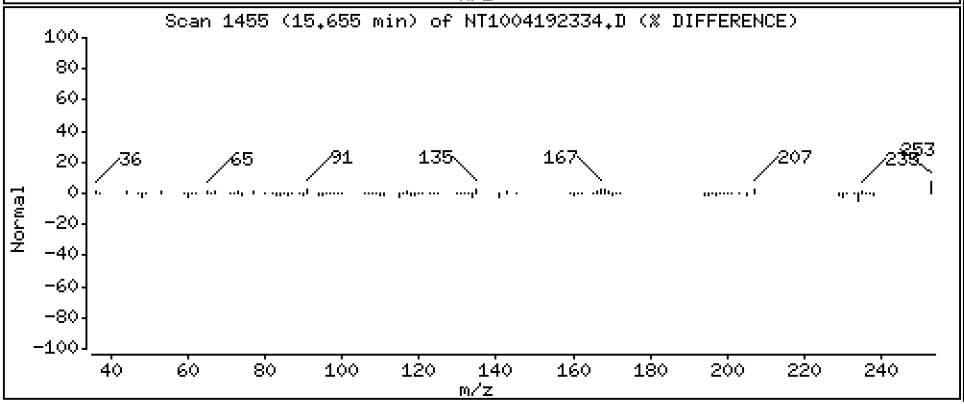
120 2,3,4,6-Tetrachlorophenol

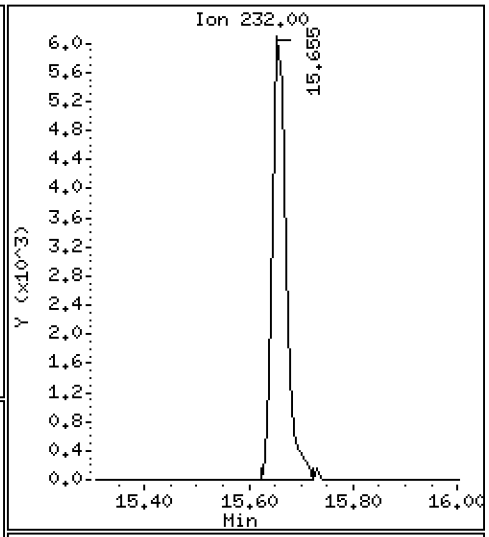
Concentration: 0.3924 ug/mL

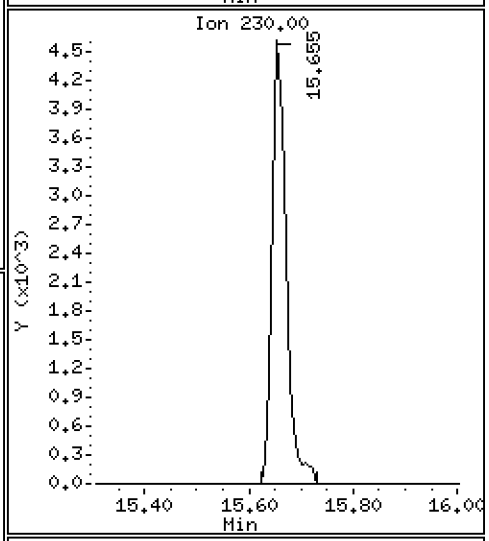


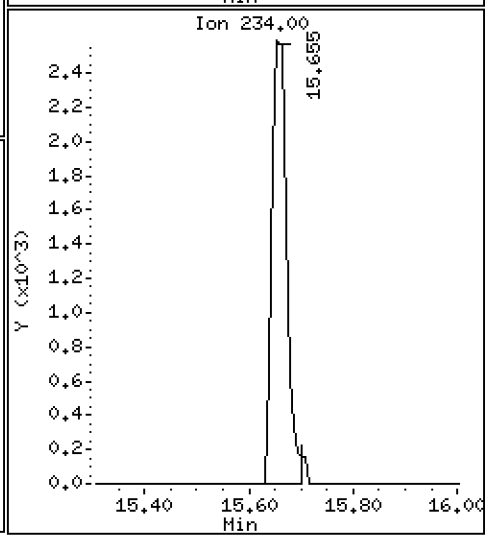












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230419B.b\NT1004192334.D
Lab Smp Id: SLD0293-LCV1
Inj Date : 20-APR-2023 08:19
Operator : VTS Inst ID: nt10.i
Smp Info : SLD0293-LCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Meth Date : 21-Apr-2023 11:54 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.604	6.612	(0.749)	27094	0.67075	0.6708
$	2 Phenol-d5	99	8.211	8.219	(0.931)	31543	0.59526	0.5953
	3 Phenol	94	8.235	8.235	(0.933)	22732	0.41282	0.4128
$	5 2-Chlorophenol-d4	132	8.466	8.474	(0.960)	30598	0.67620	0.6762
	4 Bis(2-Chloroethyl)ether	93	8.381	8.389	(0.950)	19222	0.47066	0.4707
	6 2-Chlorophenol	128	8.490	8.497	(0.962)	21317	0.45232	0.4523
	7 1,3-Dichlorobenzene	146	8.760	8.761	(0.993)	24909	0.49994	0.4999
*	8 1,4-Dichlorobenzene-d4	152	8.823	8.830	(1.000)	133571	4.00000	
	9 1,4-Dichlorobenzene	146	8.854	8.861	(1.004)	23526	0.48879	0.4888
$	10 1,2-Dichlorobenzene-d4	152	9.187	9.187	(1.041)	14383	0.44260	0.4426
	12 1,2-Dichlorobenzene	146	9.211	9.211	(1.044)	22891	0.48326	0.4833
	11 Benzyl alcohol	108	9.110	9.110	(1.033)	11418	0.44177	0.4418(H)
	14 2,2'-oxybis(1-Chloropropane)	121	9.405	9.413	(1.066)	7275	0.52298	0.5230(M)
	13 2-Methylphenol	108	9.343	9.343	(1.059)	18260	0.45490	0.4549
	17 Hexachloroethane	117	9.800	9.801	(1.111)	8044	0.40734	0.4073
	16 N-Nitroso-di-n-propylamine	70	9.661	9.669	(1.095)	13441	0.42407	0.4241
	15 4-Methylphenol	108	9.622	9.622	(1.091)	18948	0.44800	0.4480
$	18 Nitrobenzene-d5	82	9.925	9.925	(0.878)	19787	0.41871	0.4187
	19 Nitrobenzene	77	9.956	9.964	(0.881)	19900	0.42909	0.4291
	20 Isophorone	82	10.406	10.414	(0.920)	26204	0.44168	0.4417
	21 2-Nitrophenol	139	10.592	10.592	(0.937)	9608	0.42594	0.4259
	22 2,4-Dimethylphenol	107	10.659	10.660	(0.943)	40645	0.95417	0.9542
	23 Bis(2-Chloroethoxy)methane	93	10.846	10.846	(0.959)	18256	0.46066	0.4607
	24 Benzoic acid	105	10.787	10.897	(0.954)	21082	0.88978	0.8898
	25 2,4-Dichlorophenol	162	11.050	11.050	(0.977)	32803	0.96230	0.9623
	26 1,2,4-Trichlorobenzene	180	11.222	11.230	(0.992)	21585	0.53944	0.5394
*	27 Naphthalene-d8	136	11.307	11.307	(1.000)	468190	4.00000	
	28 Naphthalene	128	11.345	11.353	(1.003)	57393	0.46273	0.4627
	29 4-Chloroaniline	127	11.492	11.492	(1.016)	45044	0.93092	0.9309
	30 Hexachlorobutadiene	225	11.716	11.716	(1.036)	13078	0.55779	0.5578
	31 4-Chloro-3-methylphenol	107	12.467	12.467	(1.103)	30529	0.82730	0.8273
	32 2-Methylnaphthalene	142	12.746	12.746	(1.127)	46545	0.52001	0.5200
	33 Hexachlorocyclopentadiene	237	13.210	13.210	(0.886)	1834	0.07330	0.07330

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.372	13.373	(0.897)	24185	0.90516	0.9052
	35	2,4,5-Trichlorophenol	196	13.458	13.450	(0.902)	22144	0.74588	0.7459
$	36	2-Fluorobiphenyl	172	13.527	13.527	(0.907)	46605	0.43582	0.4358
	37	2-Chloronaphthalene	162	13.728	13.736	(0.921)	39355	0.45451	0.4545
	38	2-Nitroaniline	65	14.007	14.007	(0.939)	16253	0.66822	0.6682
	39	Dimethylphthalate	163	14.440	14.441	(0.968)	44440	0.50603	0.5060
	40	Acenaphthylene	152	14.603	14.603	(0.979)	60534	0.44865	0.4486
	41	2,6-Dinitrotoluene	165	14.572	14.580	(0.977)	17212	0.90726	0.9073
*	42	Acenaphthene-d10	164	14.913	14.913	(1.000)	270336	4.00000	
	43	3-Nitroaniline	138	14.858	14.859	(0.996)	14552	0.67959	0.6796
	44	Acenaphthene	153	14.982	14.982	(1.005)	36419	0.43692	0.4369
	45	2,4-Dinitrophenol	184	15.083	15.067	(1.011)	2807	0.24508	0.2451
	46	Dibenzofuran	168	15.307	15.307	(1.026)	58993	0.47994	0.4799
	47	4-Nitrophenol	109	15.237	15.206	(1.022)	2821	0.20946	0.2095
	48	2,4-Dinitrotoluene	165	15.384	15.384	(1.032)	20627	0.71934	0.7193
	50	Diethylphthalate	149	15.902	15.902	(1.066)	50070	0.58109	0.5811
	49	Fluorene	166	16.018	16.018	(1.074)	44511	0.46028	0.4603
	51	4-Chlorophenyl-phenylether	204	16.026	16.018	(1.075)	22423	0.48761	0.4876
	52	4-Nitroaniline	138	16.134	16.126	(1.082)	10672	0.55303	0.5530
	53	4,6-Dinitro-2-methylphenol	198	16.219	16.219	(0.904)	17364	1.30073	1.301
	54	N-Nitrosodiphenylamine	169	16.272	16.273	(0.907)	29098	0.49329	0.4933
$	55	2,4,6-Tribromophenol	330	16.558	16.558	(1.110)	8039	0.63237	0.6324
	56	4-Bromophenyl-phenylether	248	17.020	17.021	(0.948)	14128	0.57252	0.5725
	57	Hexachlorobenzene	284	17.330	17.330	(0.966)	16894	0.65297	0.6530
	58	Pentachlorophenol	266	17.694	17.694	(0.986)	9230	0.60254	0.6025
*	59	Phenanthrene-d10	188	17.949	17.949	(1.000)	441205	4.00000	
	60	Phenanthrene	178	17.996	17.996	(1.003)	58353	0.48503	0.4850
	61	Anthracene	178	18.088	18.089	(1.008)	53395	0.46267	0.4627
	62	Carbazole	167	18.437	18.429	(1.027)	49789	0.48145	0.4815
	63	Di-n-butylphthalate	149	19.264	19.265	(1.073)	67867	0.48827	0.4883
	64	Fluoranthene	202	20.409	20.402	(0.885)	64324	0.37155	0.3716
	65	Pyrene	202	20.835	20.827	(0.904)	69370	0.39061	0.3906
$	66	Terphenyl-d14	244	21.137	21.137	(0.917)	53882	0.40401	0.4040
	67	Butylbenzylphthalate	149	22.089	22.089	(0.958)	27989	0.44806	0.4481
	68	Benzo(a)anthracene	228	23.018	23.019	(0.999)	70029	0.46049	0.4605
*	69	Chrysene-d12	240	23.049	23.042	(1.000)	430848	4.00000	
	70	3,3'-Dichlorobenzidine	252	22.987	22.988	(0.997)	77407	1.58907	1.589
	71	Chrysene	228	23.088	23.088	(1.002)	64093	0.43138	0.4314
	72	bis(2-Ethylhexyl)phthalate	149	23.134	23.135	(0.959)	36379	0.42169	0.4217
*	134	Di-n-octylphthalate-d4	153	24.125	24.126	(1.000)	589771	4.00000	
	73	Di-n-octylphthalate	149	24.133	24.133	(1.000)	73376	0.47542	0.4754
	74	Benzo(b)fluoranthene	252	24.861	24.861	(0.971)	75455	0.48047	0.4805
	75	Benzo(k)fluoranthene	252	24.907	24.908	(0.973)	81037	0.50818	0.5082
	76	Benzo(a)pyrene	252	25.480	25.481	(0.995)	68109	0.48509	0.4851
*	77	Perylene-d12	264	25.597	25.589	(1.000)	484475	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.100	28.092	(1.098)	73141	0.40946	0.4095
	79	Dibenzo(a,h)anthracene	278	28.123	28.116	(1.099)	59904	0.40393	0.4039
	80	Benzo(g,h,i)perylene	276	28.838	28.822	(1.127)	54731	0.35404	0.3540
	90	N-Nitrosodimethylamine	74	4.403	4.411	(0.499)	22060	0.85603	0.8560
	91	Aniline	93	8.289	8.289	(0.939)	41673	0.73859	0.7386
	93	Benzidine	184	20.665	20.657	(0.897)	50741	0.71354	0.7135
	103	Pyridine	79	4.434	4.426	(0.503)	31027	0.78395	0.7840
	105	1-methylnaphthalene	142	12.962	12.962	(1.146)	44261	0.53972	0.5397
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.342	16.350	(1.096)	37432	0.38889	0.3889

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	24.907	24.908	(0.973)	148752	0.98103	0.9810
120 2,3,4,6-Tetrachlorophenol	232	15.655	15.655	(1.050)	10696	0.39242	0.3924

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192334.D
Lab Smp Id: SLD0293-LCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Misc Info:

Calibration Date: 20-APR-2023
Calibration Time: 07:41
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	129725	64863	259450	133571	2.96
27 Naphthalene-d8	475671	237836	951342	468190	-1.57
42 Acenaphthene-d10	277889	138945	555778	270336	-2.72
59 Phenanthrene-d10	485346	242673	970692	441205	-9.09
69 Chrysene-d12	453075	226538	906150	430848	-4.91
134 Di-n-octylphthala	697265	348633	1394530	589771	-15.42
77 Perylene-d12	538138	269069	1076276	484475	-9.97

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.83	8.33	9.33	8.82	-0.09
27 Naphthalene-d8	11.31	10.81	11.81	11.31	-0.00
42 Acenaphthene-d10	14.91	14.41	15.41	14.91	-0.00
59 Phenanthrene-d10	17.95	17.45	18.45	17.95	-0.00
69 Chrysene-d12	23.04	22.54	23.54	23.05	0.03
134 Di-n-octylphthala	24.13	23.63	24.63	24.13	-0.00
77 Perylene-d12	25.59	25.09	26.09	25.60	0.03

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

REVIEW SUMMARY FOR FILE - NT1004192334.D

Lab ID: SLD0293-LCV1
nt10.i, 20230419B.b\ABN.m,   20-APR-2023 08:19

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.954	0.964	-0.0098	Benzoic acid

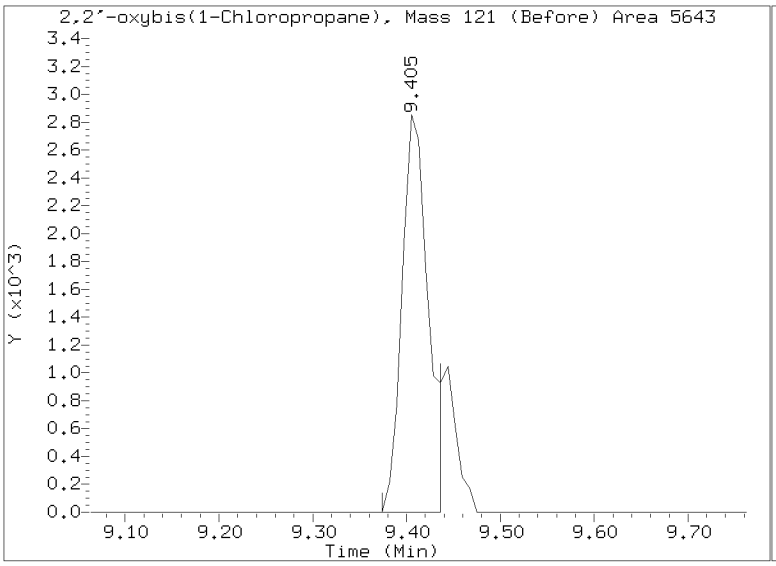
RRT check based on Ccal File: NT1004192333.D

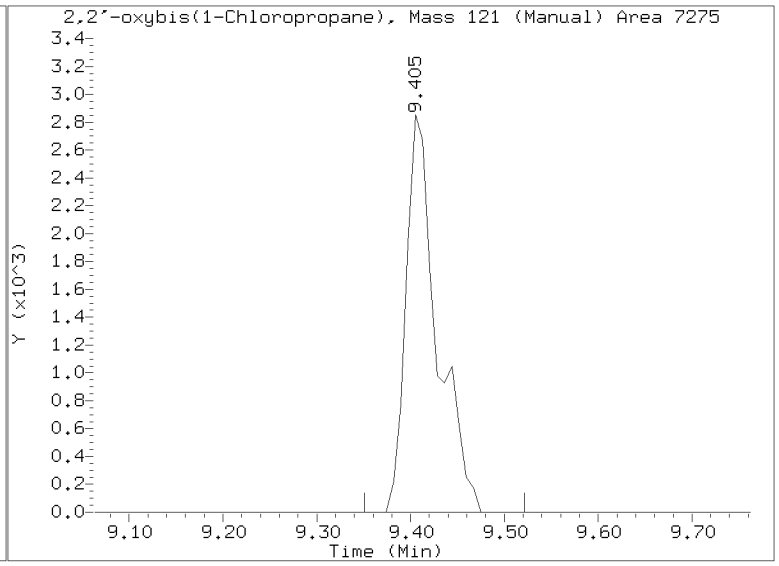
On Column LOD for nt10.i, 20230419B.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230419B.b/NT1004192334.D
Injection Date: 20-APR-2023 08:19
Lab ID:SLD0293-LCV1 Client ID:
Report Date: 04/21/2023 11:55





APPROVED

By Deenay Dunmore at 12:54 pm, Apr 21, 2023

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GC00046
Lab File ID:	NT1004192333B.D	Calibration Date:	03/15/2023
Sequence:	SLD0293	Injection Date:	04/20/23
Lab Sample ID:	SLD0293-ICV1	Injection Time:	07:41
Sequence Name:	Initial Cal Check		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Phenol	A	5.0000	4.6	1.6490140	1.5277980		-7.4	+/-20	
4-Methylphenol	A	5.0000	5.0	1.2665770	1.2575710		-0.7	+/-20	
Naphthalene	A	5.0000	4.5	1.0596590	0.9606068		-9.3	+/-20	
2-Methylnaphthalene	A	5.0000	5.4	0.7647129	0.8185590		7.0	+/-20	
Acenaphthylene	A	5.0000	4.4	1.9964080	1.7737130		-11.2	+/-20	
Dimethylphthalate	A	5.0000	5.1	1.2994310	1.3153630		1.2	+/-20	
Acenaphthene	A	5.0000	4.4	1.2333460	1.0920250		-11.5	+/-20	
Dibenzofuran	A	5.0000	5.0	1.8187540	1.8184010		-0.02	+/-20	
Fluorene	A	5.0000	4.6	1.4308680	1.3234060		-7.5	+/-20	
Phenanthrene	A	5.0000	4.6	1.0907130	1.0043100		-7.9	+/-20	
Anthracene	A	5.0000	4.7	1.0462760	0.9817557		-6.2	+/-20	
Fluoranthene	A	5.0000	3.9	1.6072690	1.2648930		-21.3	+/-20	*
Pyrene	A	5.0000	3.9	1.6487720	1.2968780		-21.3	+/-20	*
Butylbenzylphthalate	A	5.0000	4.8	0.5292894	0.5730548		-4.0	+/-20	
Benzo(a)anthracene	A	5.0000	4.5	1.4118770	1.2590500		-10.8	+/-20	
Chrysene	A	5.0000	4.3	1.3793780	1.1879090		-13.9	+/-20	
bis(2-Ethylhexyl)phthalate	A	5.0000	4.3	0.5248968	0.5082773		-13.4	+/-20	
Benzofluoranthenes, Total	A	10.000	9.4	1.2519020	1.1759760		-6.1	+/-20	
Benzo(a)pyrene	A	5.0000	4.7	1.1592370	1.0831440		-6.6	+/-20	
Indeno(1,2,3-cd)pyrene	A	5.0000	4.0	1.4748270	1.1916010		-19.2	+/-20	
Dibenzo(a,h)anthracene	A	5.0000	4.1	1.2244340	1.0086140		-17.6	+/-20	
Benzo(g,h,i)perylene	A	5.0000	3.6	1.2763410	0.9161026		-28.2	+/-20	*
2-Fluorophenol	A	7.5000	7.00	1.2096460	1.1292070		-6.7	+/-20	
Phenol-d5	A	7.5000	6.72	1.5868760	1.4224430		-10.4	+/-20	
2-Chlorophenol-d4	A	7.5000	7.69	1.3550800	1.3887260		2.5	+/-20	
1,2-Dichlorobenzene-d4	A	5.0000	4.59	0.9731556	0.8926884		-8.3	+/-20	
Nitrobenzene-d5	A	5.0000	4.35	0.4037447	0.3513185		-13.0	+/-20	
2-Fluorobiphenyl	A	5.0000	4.45	1.5822890	1.4067310		-11.1	+/-20	
2,4,6-Tribromophenol	A	7.5000	7.98	0.1585901	0.1981472		6.4	+/-20	
p-Terphenyl-d14	A	5.0000	4.00	1.2381950	0.9915444		-19.9	+/-20	

* Values outside of QC limits

INITIAL CALIBRATION CHECK
EPA 8270E

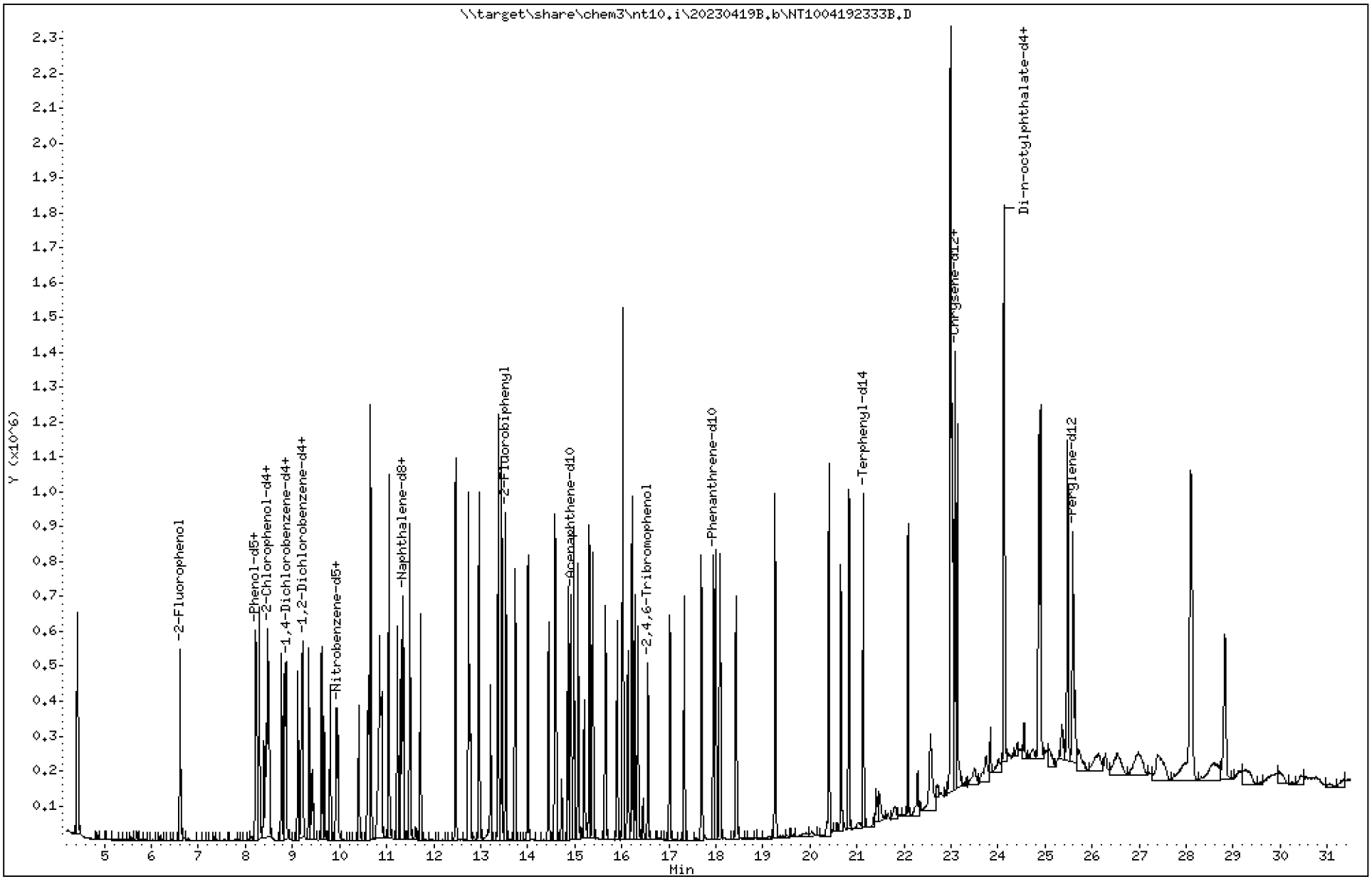
Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GC00046
Lab File ID:	NT1004192333B.D	Calibration Date:	03/15/2023
Sequence:	SLD0293	Injection Date:	04/20/23
Lab Sample ID:	SLD0293-ICV1	Injection Time:	07:41
Sequence Name:	Initial Cal Check		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
1,4-Dichlorobenzene-d4	A	4.0000	4.0	42885.5000	1.0000			
Naphthalene-d8	A	4.0000	4.0	156116.5000	1.0000			
Acenaphthene-d10	A	4.0000	4.0	84306.5000	1.0000			
Phenanthrene-d10	A	4.0000	4.0	143212.3000	1.0000			
Chrysene-d12	A	4.0000	4.0	86767.0000	1.0000			
Di-n-Octylphthalate-d4	A	4.0000	4.0	125079.3000	1.0000			
Perylene-d12	A	4.0000	4.0	105387.3000	1.0000			

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192333B.D
Date : 20-APR-2023 07:41
Client ID:
Sample Info: SLD0293-ICV1

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



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230419B.b\NT1004192333B.D
Lab Smp Id: SLD0293-ICV1
Inj Date : 20-APR-2023 07:41
Operator : VTS Inst ID: nt10.i
Smp Info : SLD0293-ICV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Meth Date : 21-Apr-2023 11:54 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.612	6.612	(0.749)	274662	7.50000	7.001
$	2 Phenol-d5	99	8.219	8.219	(0.931)	345987	7.50000	6.723
	3 Phenol	94	8.235	8.235	(0.933)	247742	5.00000	4.632
$	5 2-Chlorophenol-d4	132	8.474	8.474	(0.960)	337786	7.50000	7.686
	4 Bis(2-Chloroethyl)ether	93	8.389	8.389	(0.950)	179374	5.00000	4.522
	6 2-Chlorophenol	128	8.497	8.497	(0.962)	242222	5.00000	5.292
	7 1,3-Dichlorobenzene	146	8.761	8.761	(0.992)	233003	5.00000	4.815
*	8 1,4-Dichlorobenzene-d4	152	8.830	8.830	(1.000)	129725	4.00000	
	9 1,4-Dichlorobenzene	146	8.861	8.861	(1.004)	230460	5.00000	4.930
$	10 1,2-Dichlorobenzene-d4	152	9.187	9.187	(1.040)	144755	5.00000	4.587
	12 1,2-Dichlorobenzene	146	9.211	9.211	(1.043)	222283	5.00000	4.832
	11 Benzyl alcohol	108	9.110	9.110	(1.032)	132532	5.00000	5.280
	14 2,2'-oxybis(1-Chloropropane)	121	9.413	9.413	(1.066)	67915	5.00000	5.027(M)
	13 2-Methylphenol	108	9.343	9.343	(1.058)	191134	5.00000	4.903
	17 Hexachloroethane	117	9.801	9.801	(1.110)	87465	5.00000	4.560
	16 N-Nitroso-di-n-propylamine	70	9.669	9.669	(1.095)	136436	5.00000	4.432
	15 4-Methylphenol	108	9.622	9.622	(1.090)	203923	5.00000	4.964
$	18 Nitrobenzene-d5	82	9.925	9.925	(0.878)	208890	5.00000	4.351
	19 Nitrobenzene	77	9.964	9.964	(0.881)	210091	5.00000	4.459
	20 Isophorone	82	10.414	10.414	(0.921)	312953	5.00000	5.192
	21 2-Nitrophenol	139	10.592	10.592	(0.937)	122273	5.00000	5.307
	22 2,4-Dimethylphenol	107	10.660	10.660	(0.943)	410885	10.0000	9.494
	23 Bis(2-Chloroethoxy)methane	93	10.846	10.846	(0.959)	180887	5.00000	4.493
	24 Benzoic acid	105	10.897	10.897	(0.964)	508479	20.0000	20.17
	25 2,4-Dichlorophenol	162	11.050	11.050	(0.977)	402982	10.0000	11.64
	26 1,2,4-Trichlorobenzene	180	11.230	11.230	(0.993)	205901	5.00000	5.065
*	27 Naphthalene-d8	136	11.307	11.307	(1.000)	475671	4.00000	
	28 Naphthalene	128	11.353	11.353	(1.004)	571166	5.00000	4.533
	29 4-Chloroaniline	127	11.492	11.492	(1.016)	512503	10.0000	10.43
	30 Hexachlorobutadiene	225	11.716	11.716	(1.036)	128795	5.00000	5.407
	31 4-Chloro-3-methylphenol	107	12.467	12.467	(1.103)	359387	10.0000	9.586
	32 2-Methylnaphthalene	142	12.746	12.746	(1.127)	486706	5.00000	5.352
	33 Hexachlorocyclopentadiene	237	13.210	13.210	(0.886)	119006	10.0000	4.627

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.373	13.373	(0.897)	298175	10.0000	10.86
	35 2,4,5-Trichlorophenol	196	13.450	13.450	(0.902)	318033	10.0000	10.42
$	36 2-Fluorobiphenyl	172	13.527	13.527	(0.907)	488644	5.00000	4.445
	37 2-Chloronaphthalene	162	13.736	13.736	(0.921)	421499	5.00000	4.736
	38 2-Nitroaniline	65	14.007	14.007	(0.939)	226887	10.0000	9.075
	39 Dimethylphthalate	163	14.441	14.441	(0.968)	456906	5.00000	5.061
	40 Acenaphthylene	152	14.603	14.603	(0.979)	616119	5.00000	4.442
	41 2,6-Dinitrotoluene	165	14.580	14.580	(0.978)	213899	10.0000	10.97
*	42 Acenaphthene-d10	164	14.913	14.913	(1.000)	277889	4.00000	
	43 3-Nitroaniline	138	14.859	14.859	(0.996)	216805	10.0000	9.850
	44 Acenaphthene	153	14.982	14.982	(1.005)	379327	5.00000	4.427
	45 2,4-Dinitrophenol	184	15.067	15.067	(1.010)	217098	20.0000	17.79
	46 Dibenzofuran	168	15.307	15.307	(1.026)	631642	5.00000	4.999
	47 4-Nitrophenol	109	15.206	15.206	(1.020)	103187	10.0000	7.488
	48 2,4-Dinitrotoluene	165	15.384	15.384	(1.032)	290777	10.0000	10.02
	50 Diethylphthalate	149	15.902	15.902	(1.066)	499181	5.00000	5.636
	49 Fluorene	166	16.018	16.018	(1.074)	459700	5.00000	4.624
	51 4-Chlorophenyl-phenylether	204	16.018	16.018	(1.074)	236813	5.00000	5.010
	52 4-Nitroaniline	138	16.126	16.126	(1.081)	205594	10.0000	10.36
	53 4,6-Dinitro-2-methylphenol	198	16.219	16.219	(0.904)	303636	20.0000	20.25
	54 N-Nitrosodiphenylamine	169	16.273	16.273	(0.907)	303719	5.00000	4.681
$	55 2,4,6-Tribromophenol	330	16.558	16.558	(1.110)	103243	7.50000	7.980
	56 4-Bromophenyl-phenylether	248	17.021	17.021	(0.948)	152455	5.00000	5.616
	57 Hexachlorobenzene	284	17.330	17.330	(0.966)	159939	5.00000	5.620
	58 Pentachlorophenol	266	17.694	17.694	(0.986)	175548	10.0000	10.22
*	59 Phenanthrene-d10	188	17.949	17.949	(1.000)	485346	4.00000	
	60 Phenanthrene	178	17.996	17.996	(1.003)	609297	5.00000	4.604
	61 Anthracene	178	18.089	18.089	(1.008)	595614	5.00000	4.692
	62 Carbazole	167	18.429	18.429	(1.027)	566066	5.00000	4.976
	63 Di-n-butylphthalate	149	19.265	19.265	(1.073)	793646	5.00000	5.218
	64 Fluoranthene	202	20.402	20.402	(0.885)	716364	5.00000	3.935
	65 Pyrene	202	20.827	20.827	(0.904)	734479	5.00000	3.933
$	66 Terphenyl-d14	244	21.137	21.137	(0.917)	561555	5.00000	4.004
	67 Butylbenzylphthalate	149	22.089	22.089	(0.959)	324546	5.00000	4.802
	68 Benzo(a)anthracene	228	23.019	23.019	(0.999)	713055	5.00000	4.459
*	69 Chrysene-d12	240	23.042	23.042	(1.000)	453075	4.00000	
	70 3,3'-Dichlorobenzidine	252	22.988	22.988	(0.998)	864741	15.0000	16.88
	71 Chrysene	228	23.088	23.088	(1.002)	672765	5.00000	4.306
	72 bis(2-Ethylhexyl)phthalate	149	23.135	23.135	(0.959)	443005	5.00000	4.332
*	134 Di-n-octylphthalate-d4	153	24.126	24.126	(1.000)	697265	4.00000	
	73 Di-n-octylphthalate	149	24.133	24.133	(1.000)	828285	5.00000	4.539
	74 Benzo(b)fluoranthene	252	24.861	24.861	(0.972)	835544	5.00000	4.790
	75 Benzo(k)fluoranthene	252	24.908	24.908	(0.973)	833524	5.00000	4.706
	76 Benzo(a)pyrene	252	25.481	25.481	(0.996)	728601	5.00000	4.672
*	77 Perylene-d12	264	25.589	25.589	(1.000)	538138	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.092	28.092	(1.098)	801557	5.00000	4.040
	79 Dibenzo(a,h)anthracene	278	28.116	28.116	(1.099)	678467	5.00000	4.119
	80 Benzo(g,h,i)perylene	276	28.822	28.822	(1.126)	616237	5.00000	3.589
	90 N-Nitrosodimethylamine	74	4.411	4.411	(0.500)	210865	10.0000	8.425
	91 Aniline	93	8.289	8.289	(0.939)	432198	10.0000	7.887
	93 Benzidine	184	20.657	20.657	(0.897)	531293	10.0000	7.105
	103 Pyridine	79	4.426	4.426	(0.501)	333789	10.0000	8.684
	105 1-methylnaphthalene	142	12.962	12.962	(1.146)	462802	5.00000	5.555
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.350	16.350	(1.096)	403169	5.00000	4.075

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	24.908	24.908	(0.973)	1582093	10.0000	9.394
120 2,3,4,6-Tetrachlorophenol	232	15.655	15.655	(1.050)	167084	5.00000	5.753

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192333B.D
Lab Smp Id: SLD0293-ICV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Misc Info:

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

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	129725	64863	259450	129725	0.00
27 Naphthalene-d8	475671	237836	951342	475671	0.00
42 Acenaphthene-d10	277889	138945	555778	277889	0.00
59 Phenanthrene-d10	485346	242673	970692	485346	0.00
69 Chrysene-d12	453075	226538	906150	453075	0.00
134 Di-n-octylphthala	697265	348633	1394530	697265	0.00
77 Perylene-d12	538138	269069	1076276	538138	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.83	8.33	9.33	8.83	0.00
27 Naphthalene-d8	11.31	10.81	11.81	11.31	0.00
42 Acenaphthene-d10	14.91	14.41	15.41	14.91	0.00
59 Phenanthrene-d10	17.95	17.45	18.45	17.95	0.00
69 Chrysene-d12	23.04	22.54	23.54	23.04	0.00
134 Di-n-octylphthala	24.13	23.63	24.63	24.13	0.00
77 Perylene-d12	25.59	25.09	26.09	25.59	0.00

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

REVIEW SUMMARY FOR FILE - NT1004192333B.D

Lab ID: SLD0293-ICV1
nt10.i, 20230419B.b\ABN.m,   20-APR-2023 07:41

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

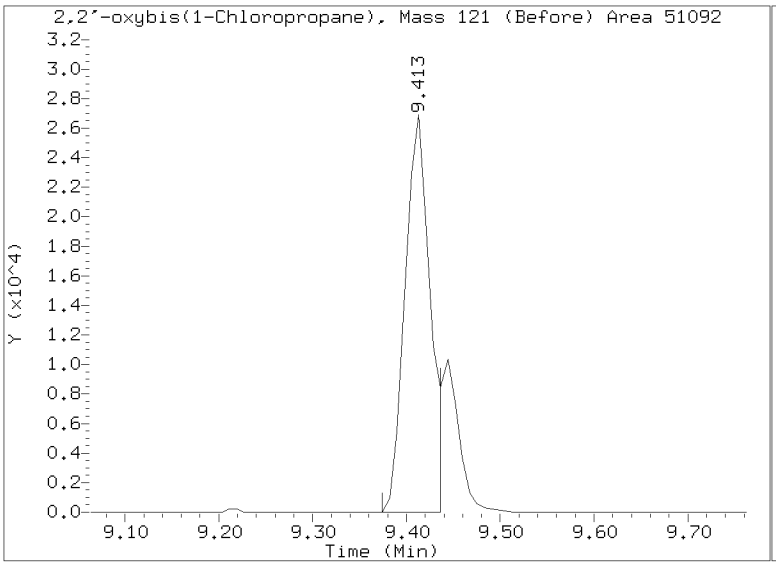
Quant Method: ICAL

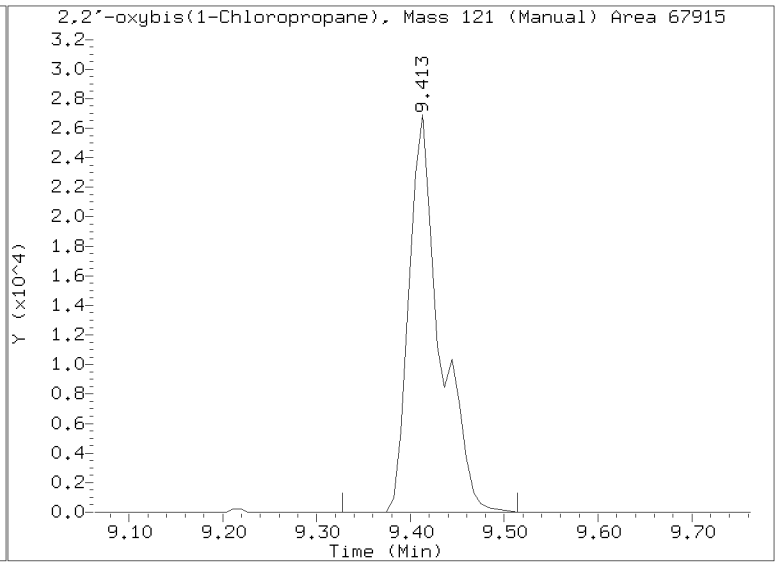
RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230419B.b/NT1004192333.D
Injection Date: 20-APR-2023 07:41
Lab ID:SLD0293-ICV1 Client ID:
Report Date: 04/21/2023 11:54





APPROVED

By Deenay Dunmore at 12:54 pm, Apr 21, 2023

Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230419B.b

Instrument: nt10.i Date: 20-APR-2023 Method: 20230419B.b\ABN.m

INITIAL CAL: 15-MAR-2023

Compound	%RSD or R^2
NO Q-FLAGS	

ICV CAL: NT1004192333.D 20-APR-2023 07:41

Compound	%D
Hexachlorocyclopentadiene	-53.7
4-Nitrophenol	-25.1
Fluoranthene	-21.3
Pyrene	-21.3
Benzo(g,h,i)perylene	-28.2
Aniline	-21.1
Benzidine	-29.0

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GC00046
Lab File ID:	NT10031511.D	Calibration Date:	03/15/2023
Sequence:	SLC0228	Injection Date:	03/16/23
Lab Sample ID:	SLC0228-SCV1	Injection Time:	02:16
Sequence Name:	SCV 5.0		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	5.0000	4.4	1.6490140	1.4552130		-11.8	+/-20
4-Methylphenol	A	5.0000	4.4	1.2665770	1.1056260		-12.7	+/-20
Naphthalene	A	5.0000	4.7	1.0596590	0.9996013		-5.7	+/-20
2-Methylnaphthalene	A	5.0000	4.6	0.7647129	0.7029502		-8.1	+/-20
Acenaphthylene	A	5.0000	4.8	1.9964080	1.9185840		-3.9	+/-20
Dimethylphthalate	A	5.0000	4.9	1.2994310	1.2831790		-1.3	+/-20
Acenaphthene	A	5.0000	4.8	1.2333460	1.1780660		-4.5	+/-20
Dibenzofuran	A	5.0000	4.6	1.8187540	1.6906760		-7.0	+/-20
Fluorene	A	5.0000	4.7	1.4308680	1.3472940		-5.8	+/-20
Phenanthrene	A	5.0000	4.6	1.0907130	1.0038520		-8.0	+/-20
Anthracene	A	5.0000	4.2	1.0462760	0.8719973		-16.7	+/-20
Fluoranthene	A	5.0000	4.5	1.6072690	1.4376960		-10.6	+/-20
Pyrene	A	5.0000	4.3	1.6487720	1.4307800		-13.2	+/-20
Butylbenzylphthalate	A	5.0000	4.8	0.5292894	0.5769788		-3.3	+/-20
Benzo(a)anthracene	A	5.0000	4.6	1.4118770	1.3122590		-7.1	+/-20
Chrysene	A	5.0000	4.5	1.3793780	1.2442450		-9.8	+/-20
bis(2-Ethylhexyl)phthalate	A	5.0000	4.7	0.5248968	0.5492136		-6.4	+/-20
Benzofluoranthenes, Total	A	10.000	9.5	1.2519020	1.1872400		-5.2	+/-20
Benzo(a)pyrene	A	5.0000	4.9	1.1592370	1.1298800		-2.5	+/-20
Indeno(1,2,3-cd)pyrene	A	5.0000	4.6	1.4748270	1.3499250		-8.5	+/-20
Dibenzo(a,h)anthracene	A	5.0000	4.5	1.2244340	1.1134110		-9.1	+/-20
Benzo(g,h,i)perylene	A	5.0000	4.6	1.2763410	1.1716820		-8.2	+/-20
2-Fluorophenol	A		0.00	1.2096460				+/-20
Phenol-d5	A		0.00	1.5868760				+/-20
2-Chlorophenol-d4	A		0.00	1.3550800				+/-20
1,2-Dichlorobenzene-d4	A		0.00	0.9731556				+/-20
Nitrobenzene-d5	A		0.00	0.4037447				+/-20
2-Fluorobiphenyl	A		0.00	1.5822890				+/-20
2,4,6-Tribromophenol	A		0.00	0.1585901				+/-20
p-Terphenyl-d14	A		0.00	1.2381950				+/-20

* Values outside of QC limits

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

Page 1

Date : 16-MAR-2023 02:16

Client ID:

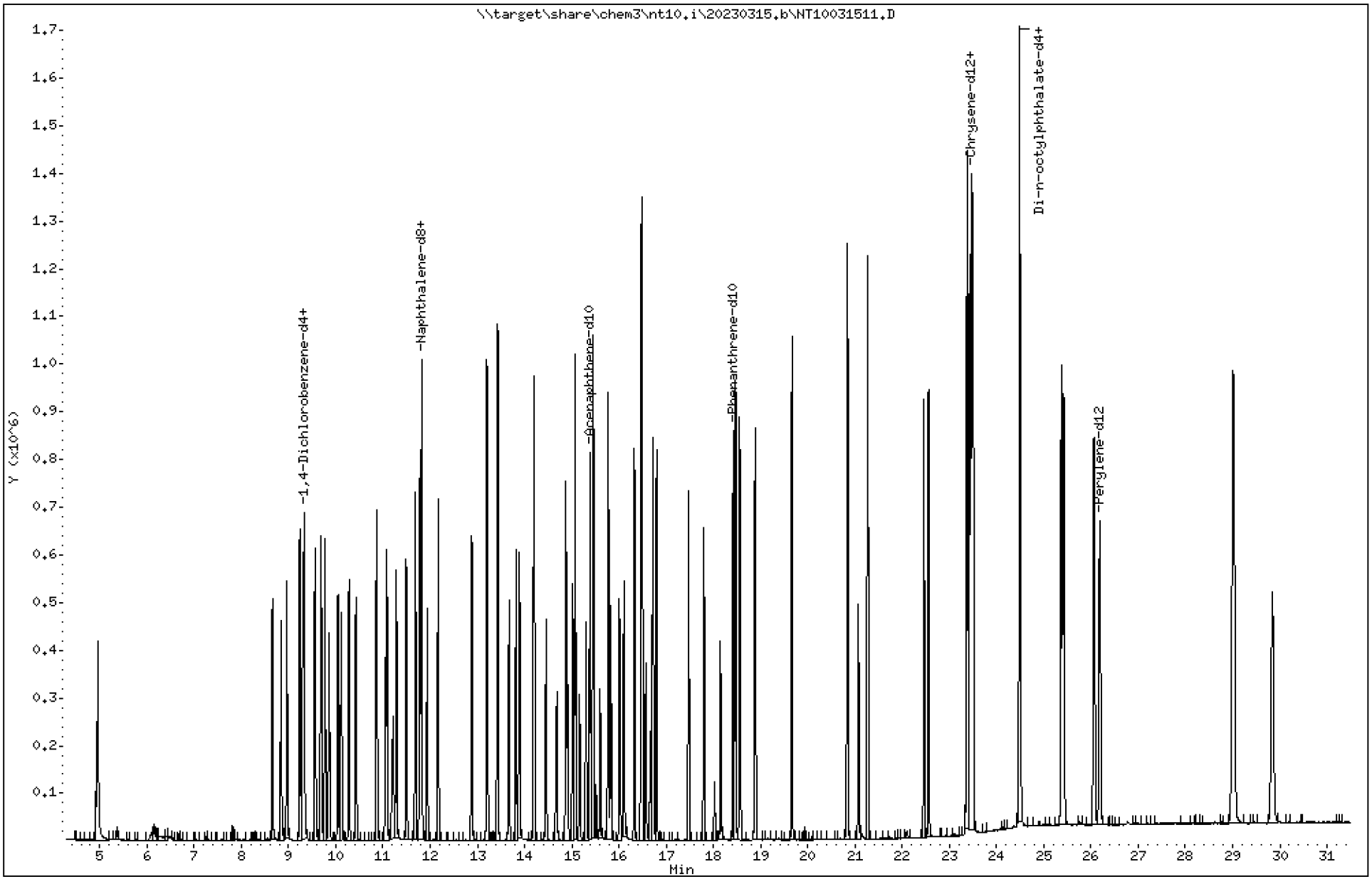
Instrument: nt10.i

Sample Info: SLC0228-SCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

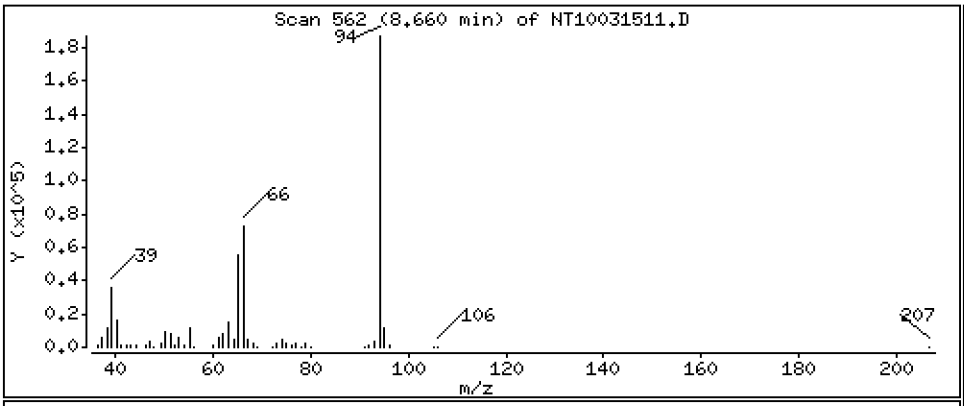
Operator: VTS

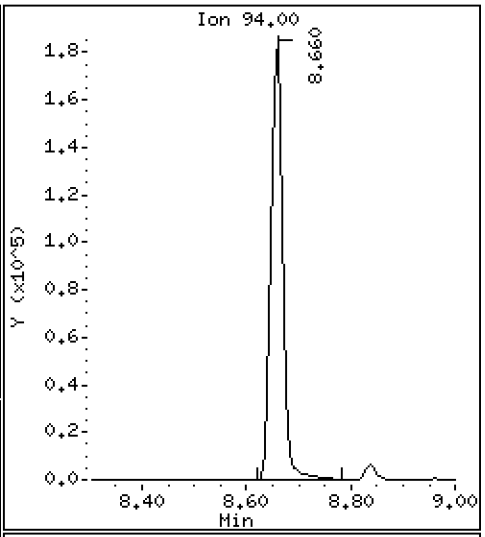
Column phase: ZB-5msi

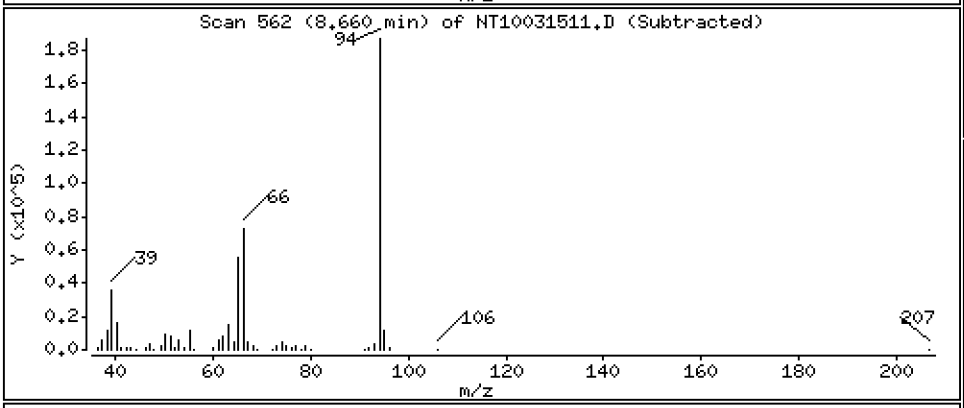
Column diameter: 0.25

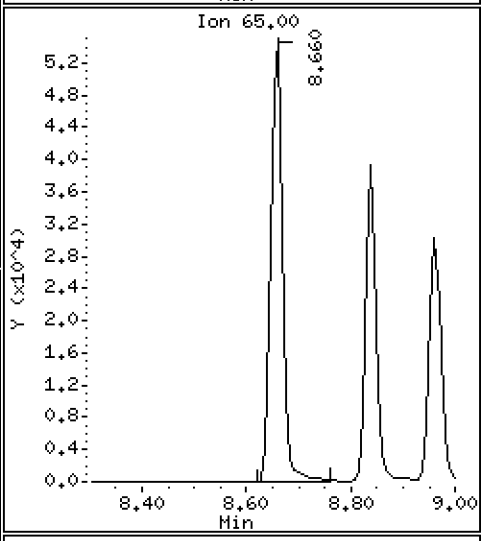
3 Phenol

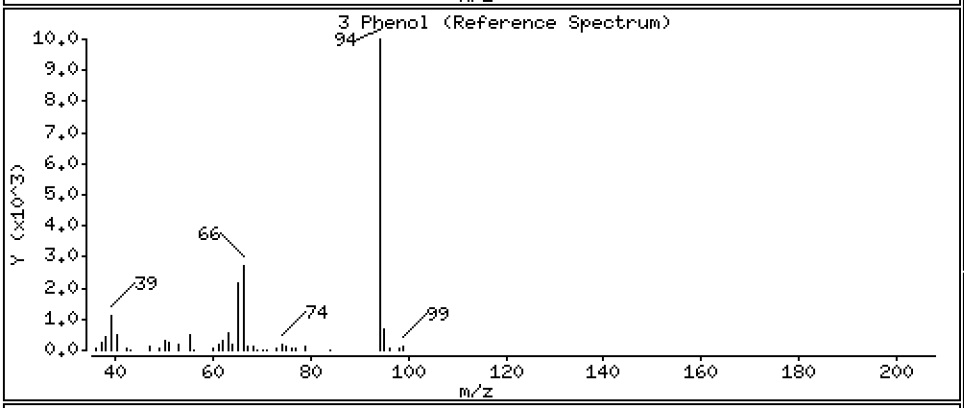
Concentration: 4.412 ug/mL

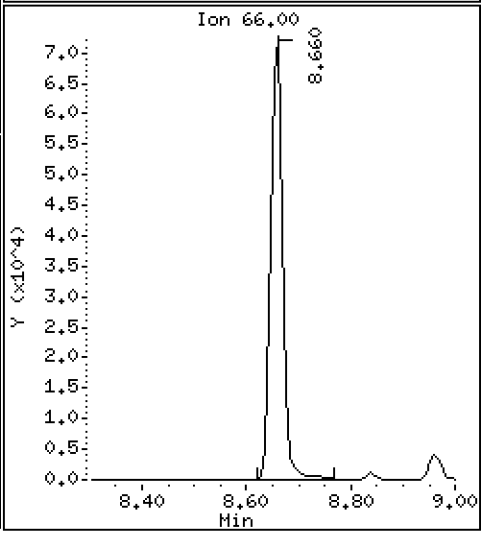


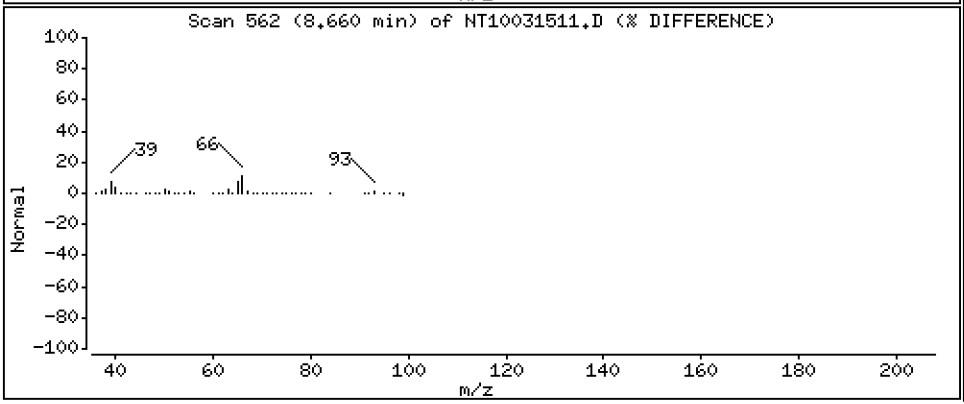












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

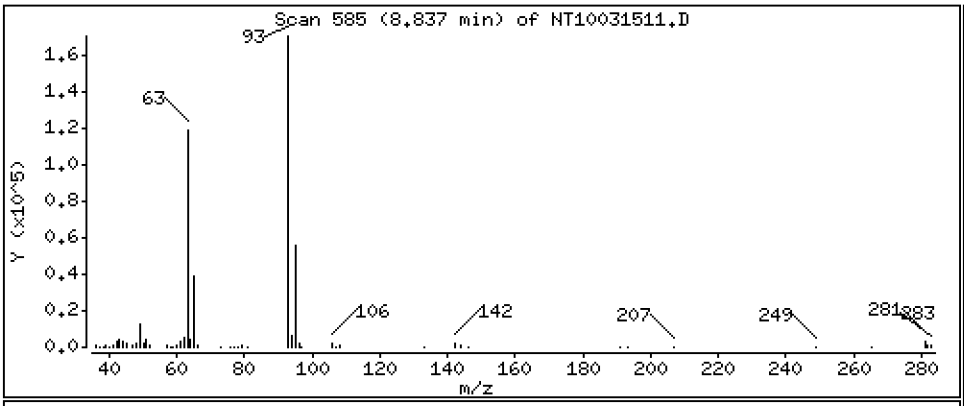
Operator: VTS

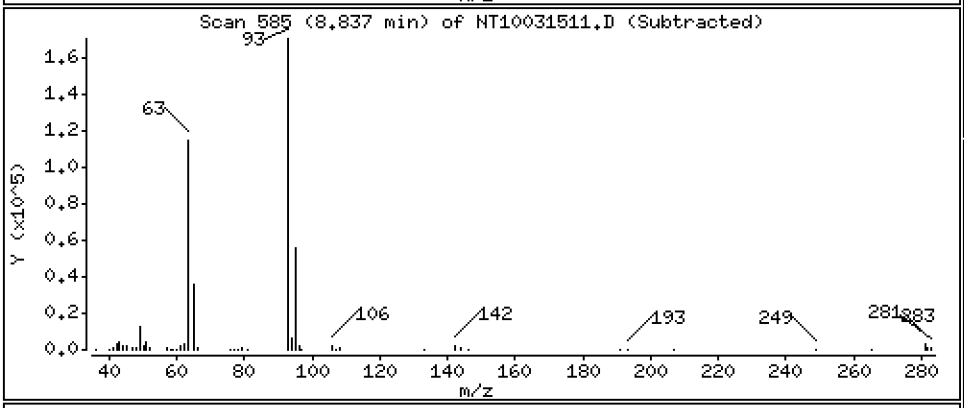
Column phase: ZB-5msi

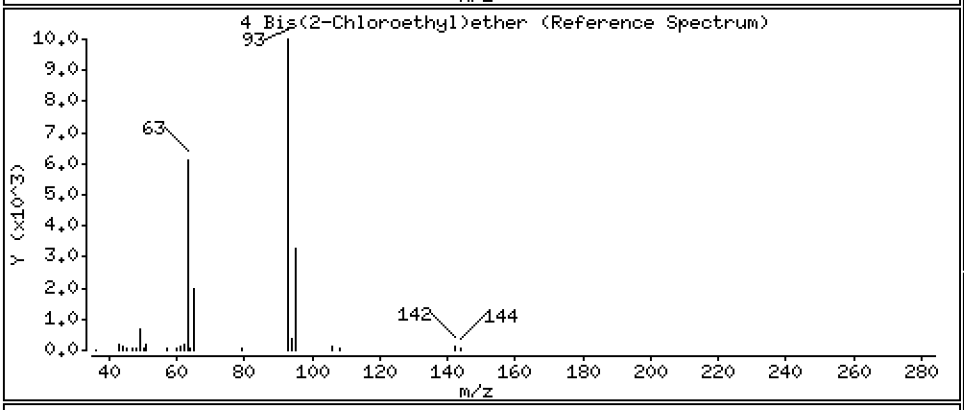
Column diameter: 0.25

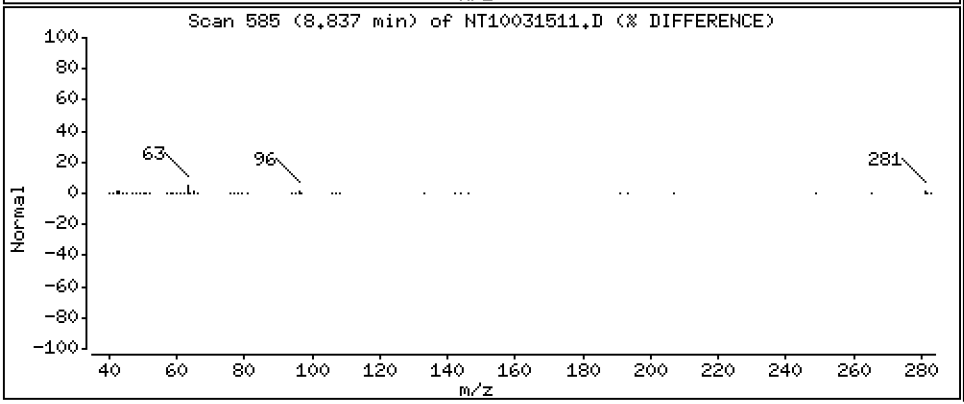
4 Bis(2-Chloroethyl)ether

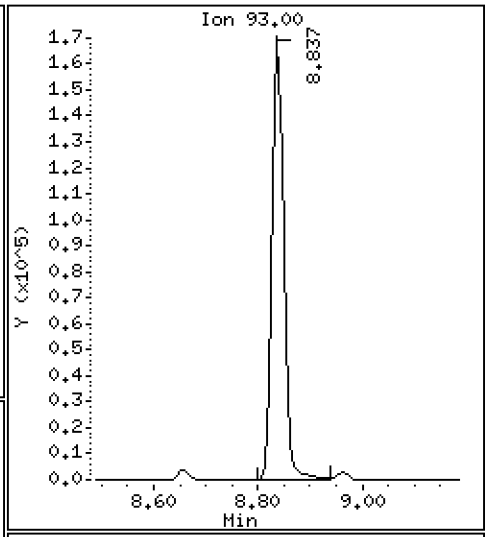
Concentration: 5.258 ug/mL

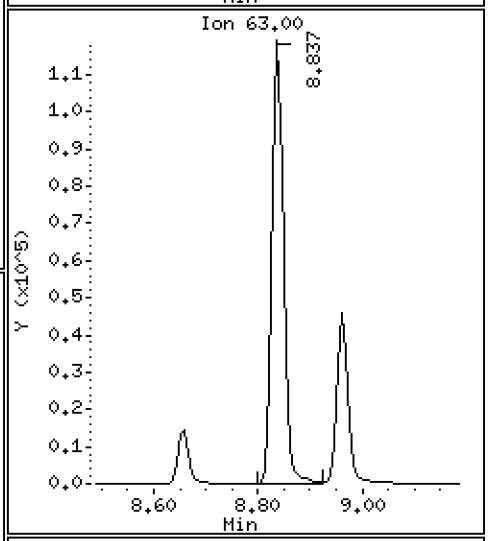


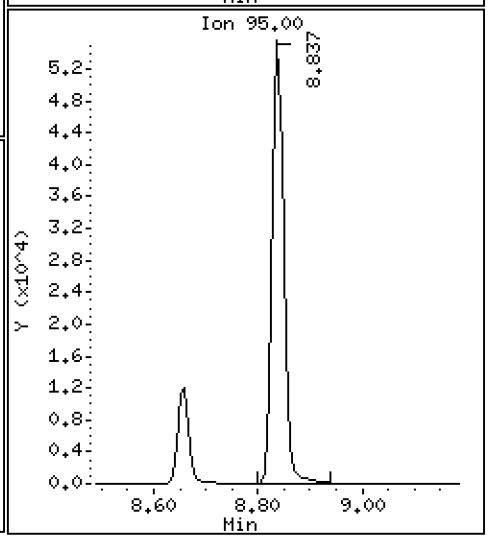












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

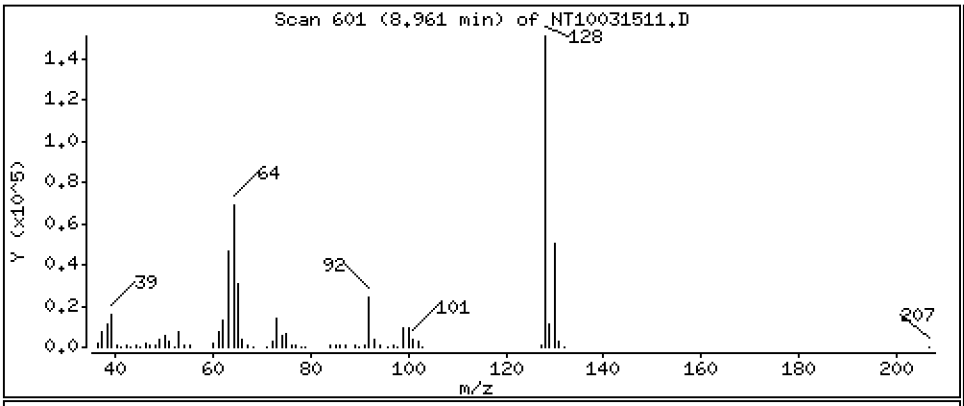
Operator: VTS

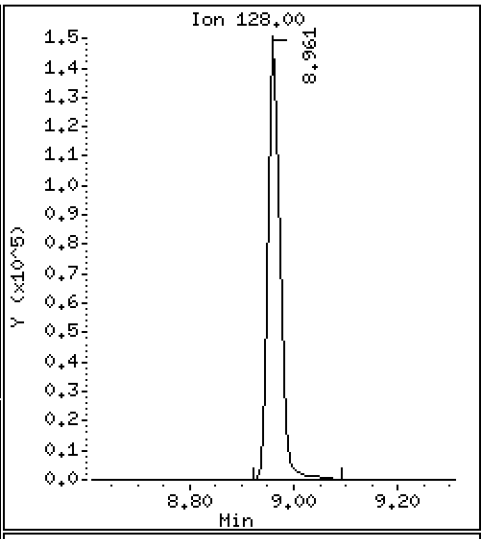
Column phase: ZB-5msi

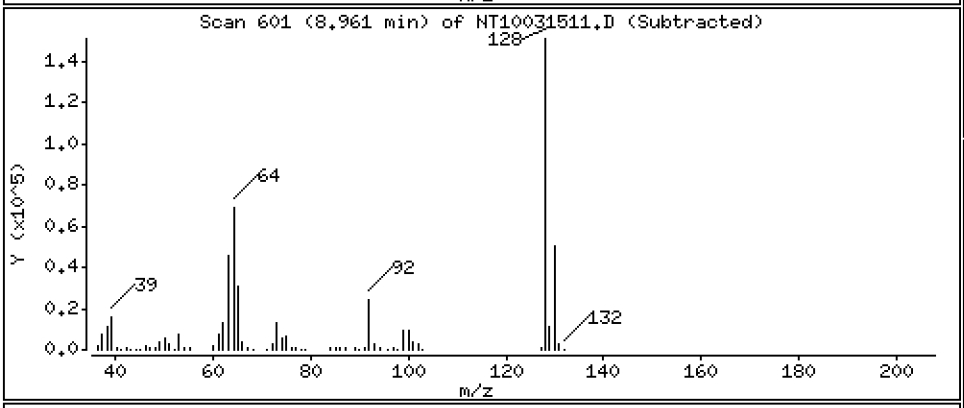
Column diameter: 0.25

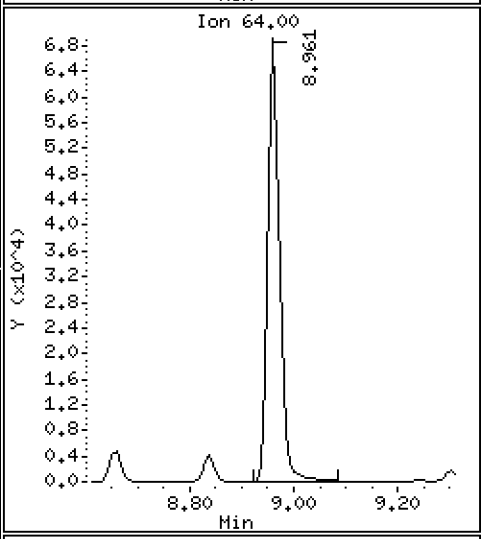
6 2-Chlorophenol

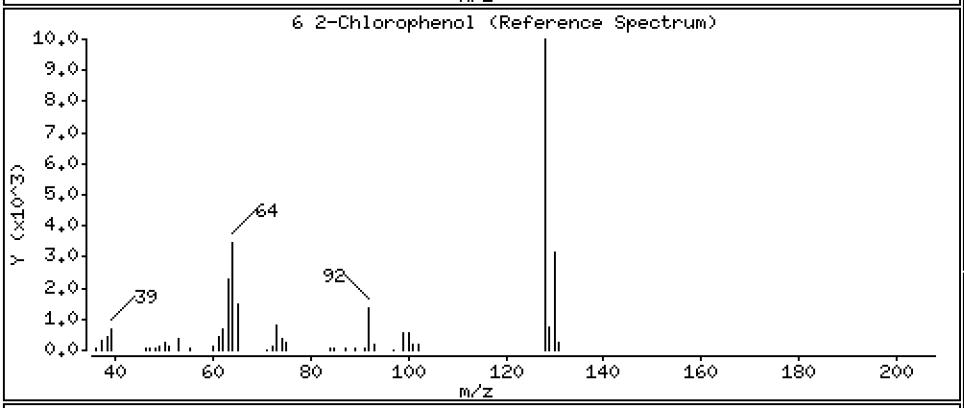
Concentration: 4.277 ug/mL

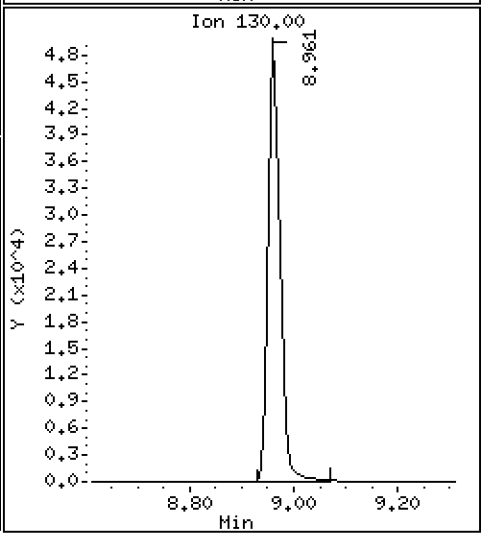


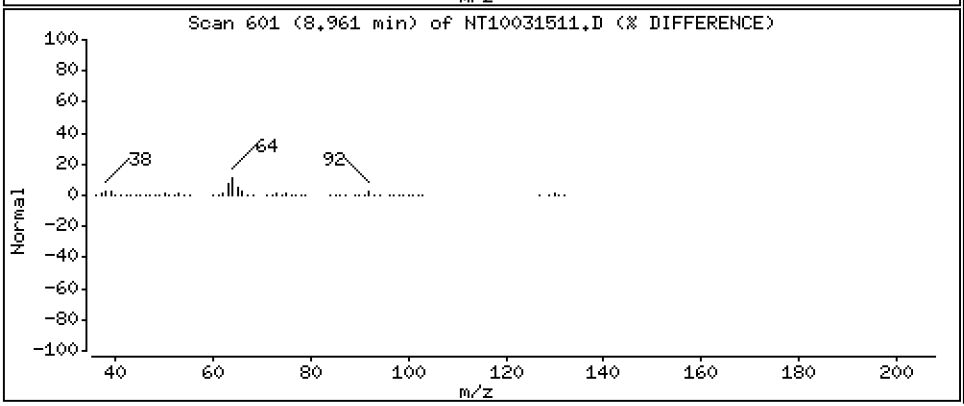












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

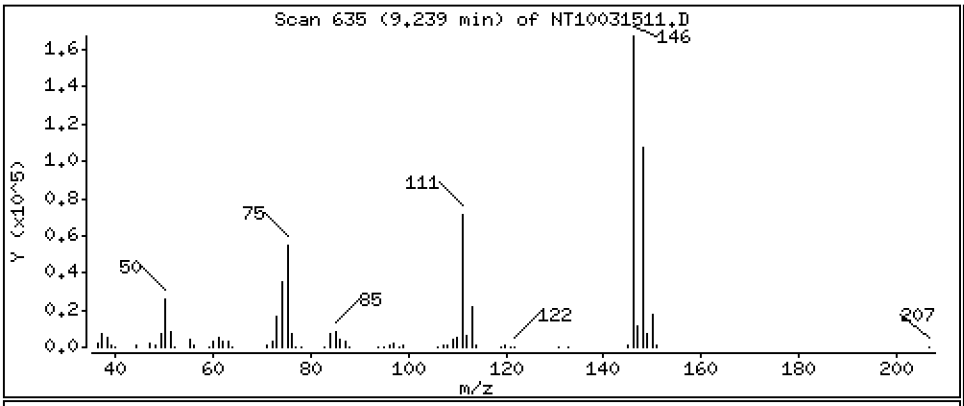
Operator: VTS

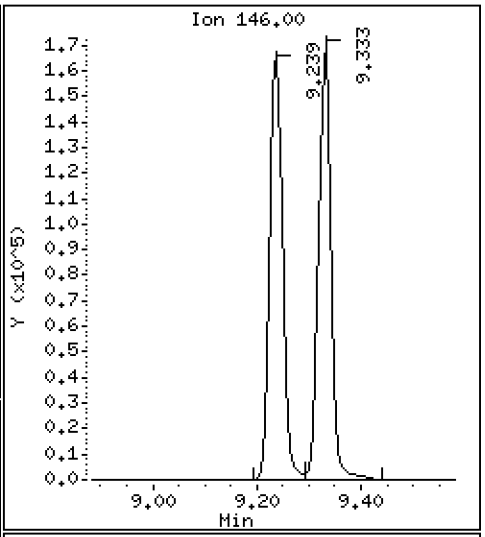
Column phase: ZB-5msi

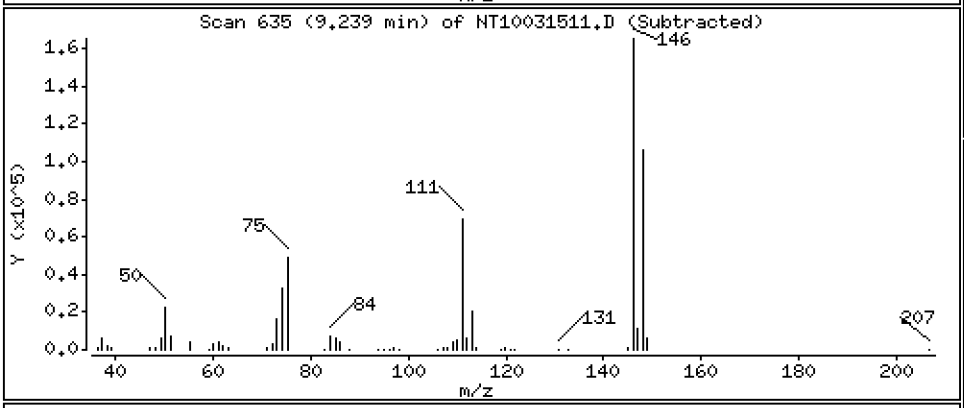
Column diameter: 0.25

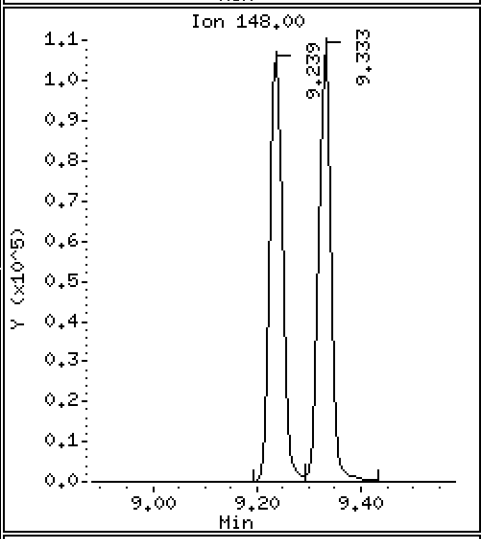
7 1,3-Dichlorobenzene

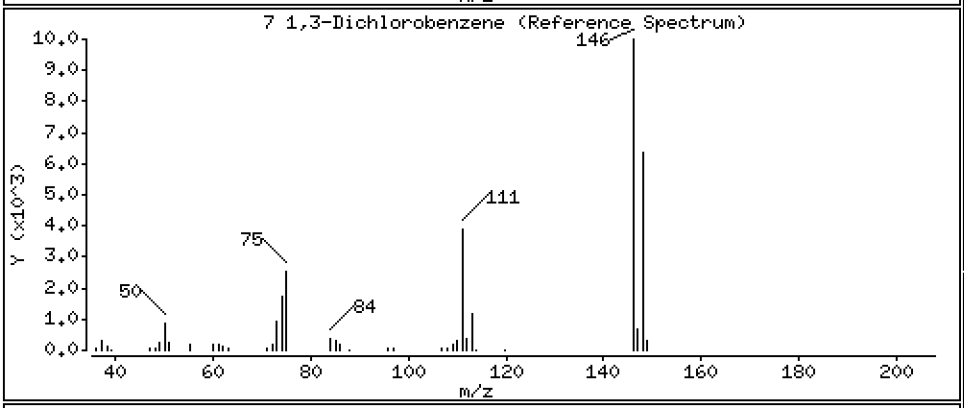
Concentration: 4.772 ug/mL

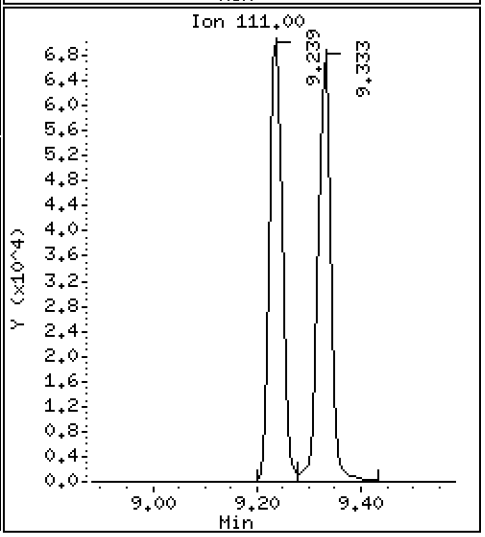


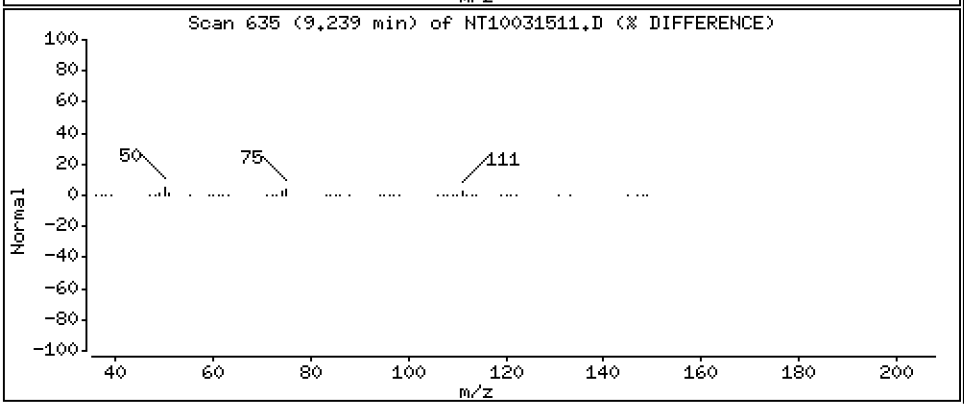












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

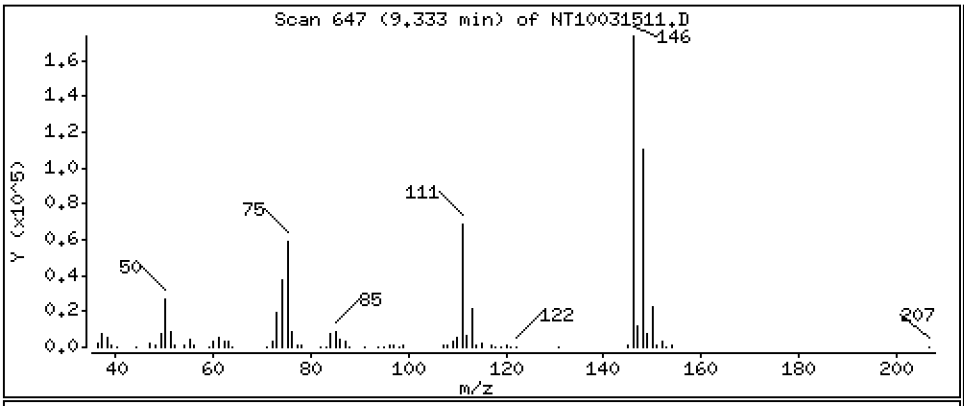
Operator: VTS

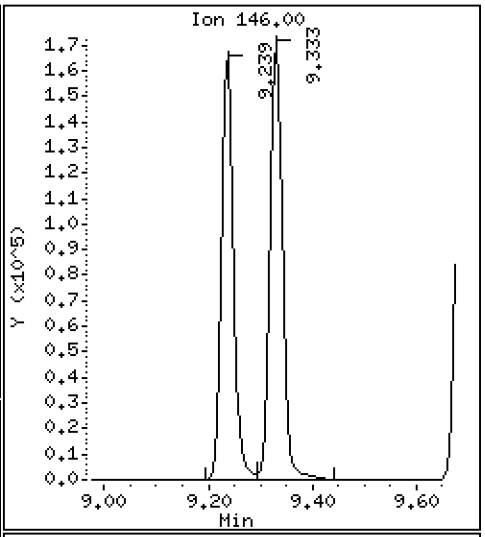
Column phase: ZB-5msi

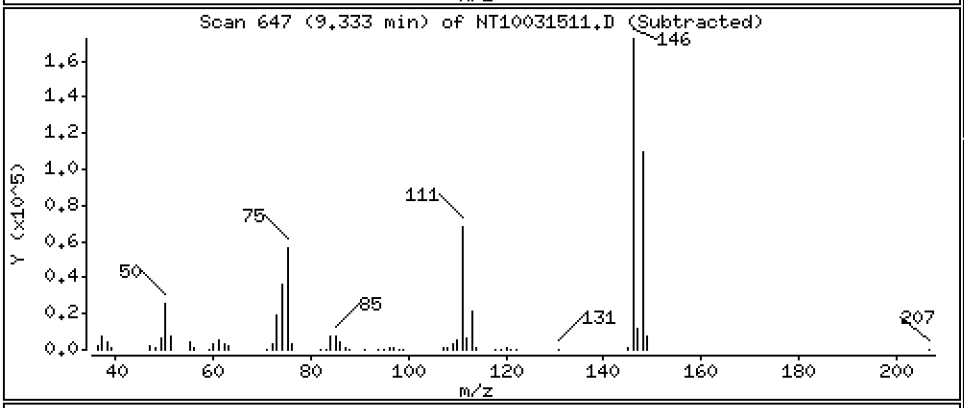
Column diameter: 0.25

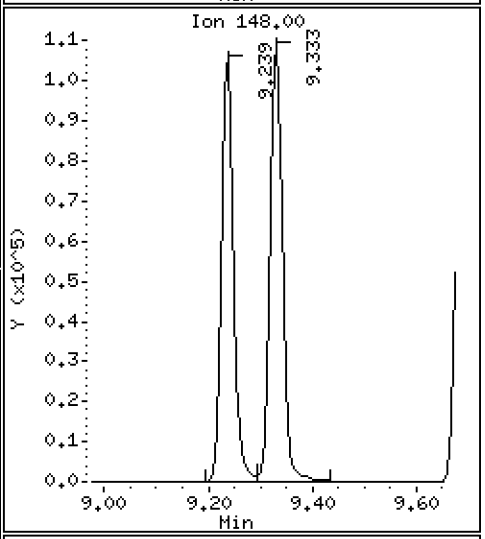
9 1,4-Dichlorobenzene

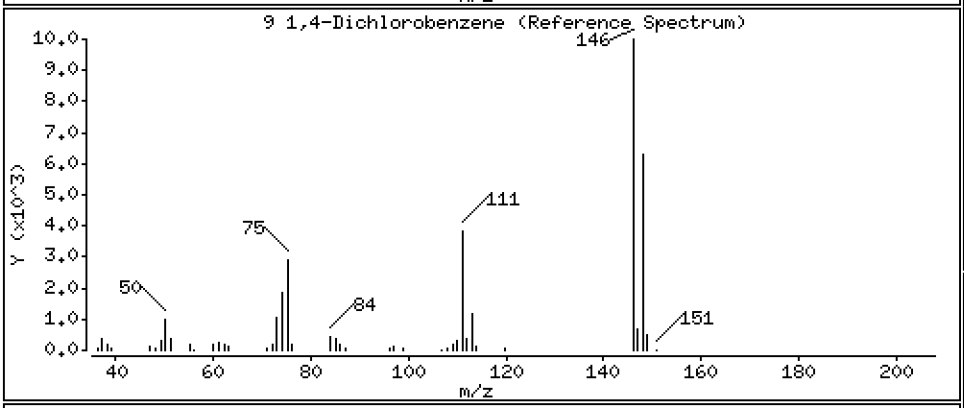
Concentration: 4.913 ug/mL

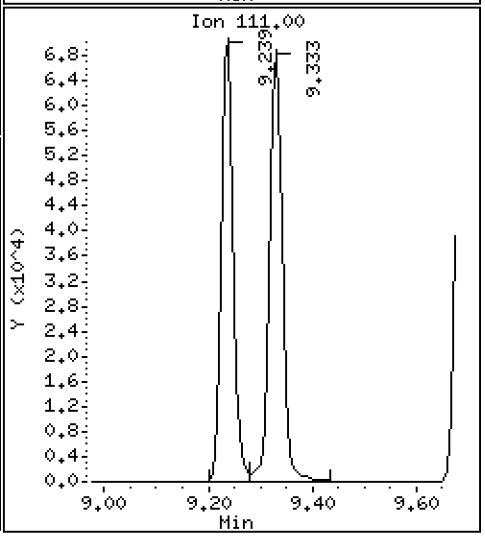


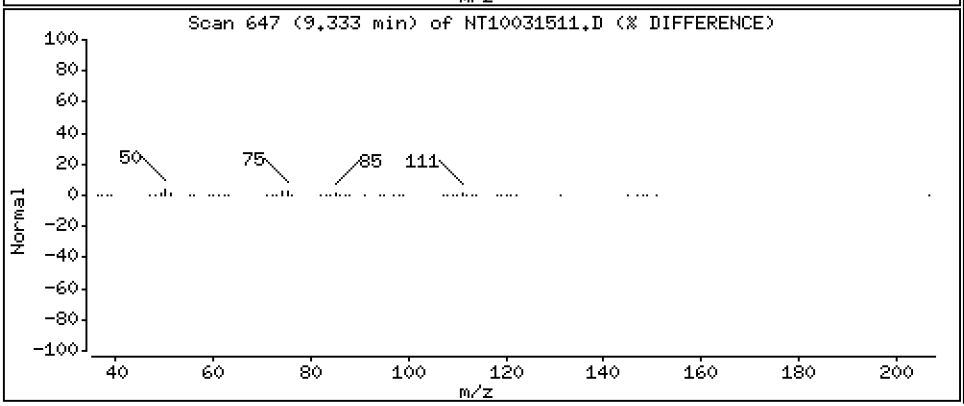












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

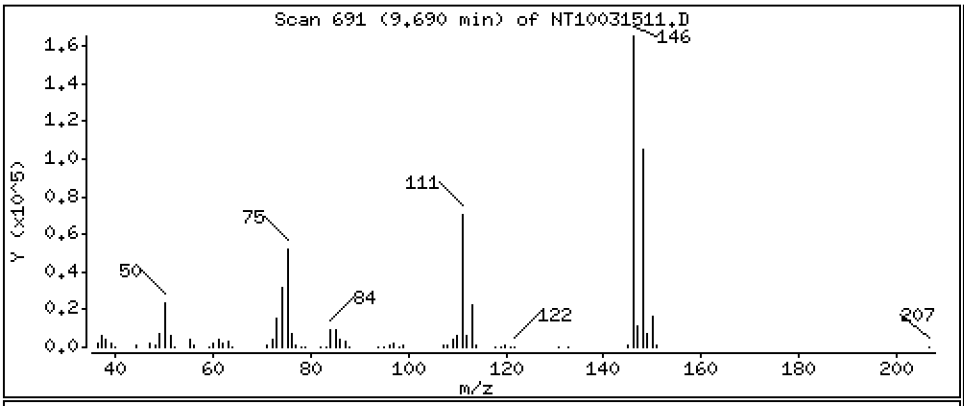
Operator: VTS

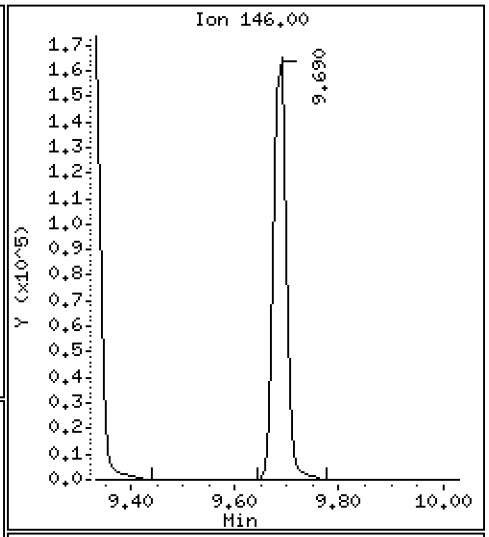
Column phase: ZB-5msi

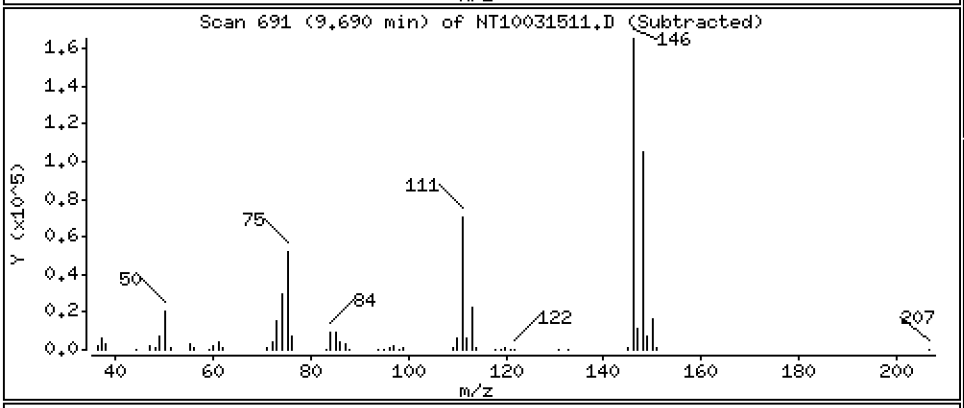
Column diameter: 0.25

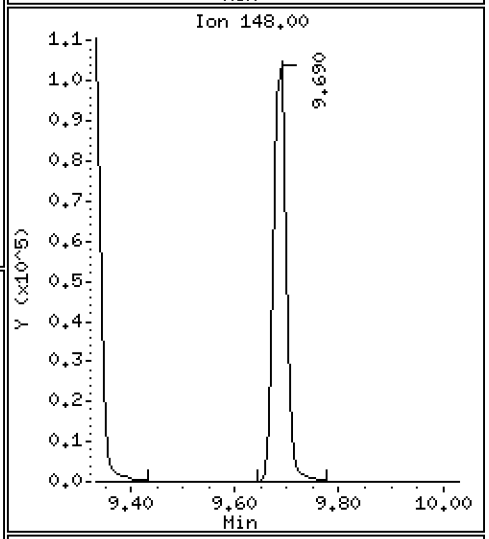
12 1,2-Dichlorobenzene

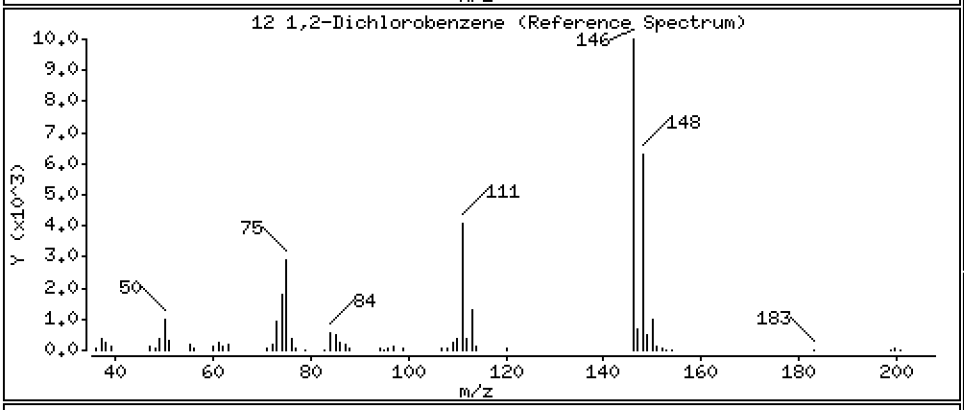
Concentration: 4.882 ug/mL

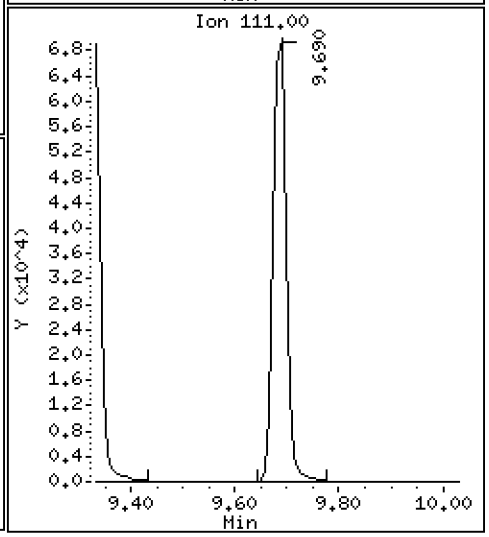


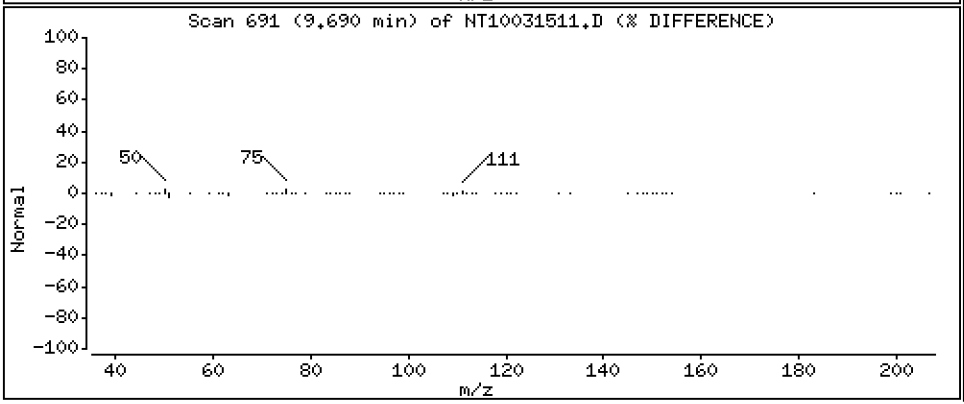












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

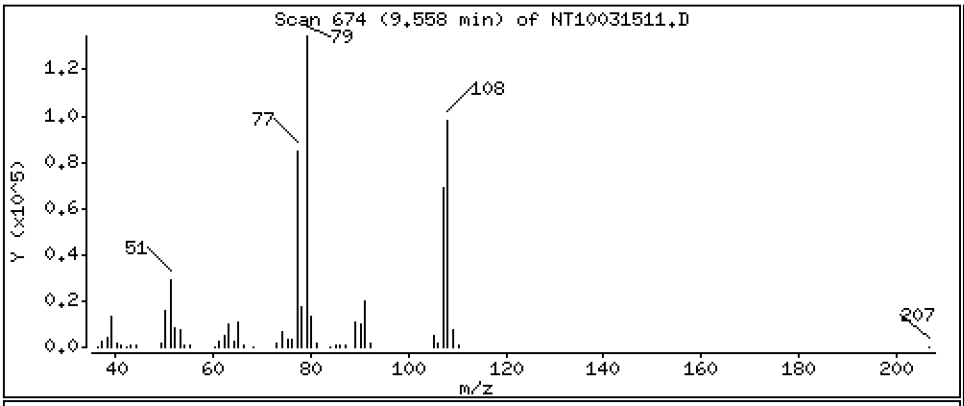
Operator: VTS

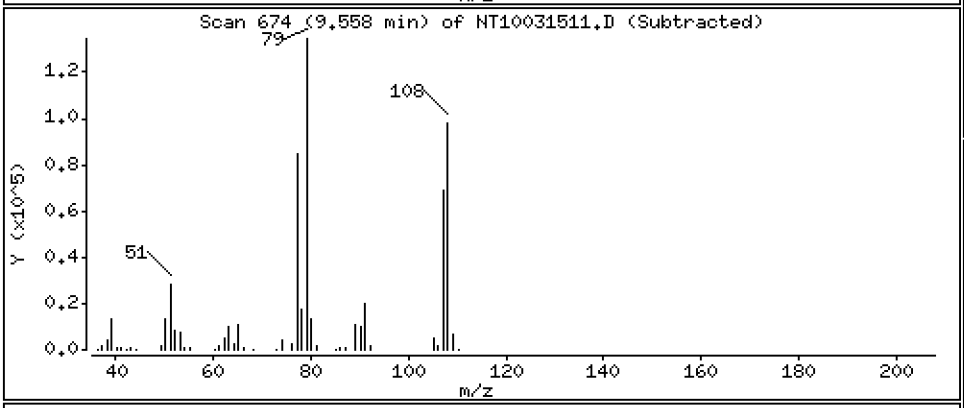
Column phase: ZB-5msi

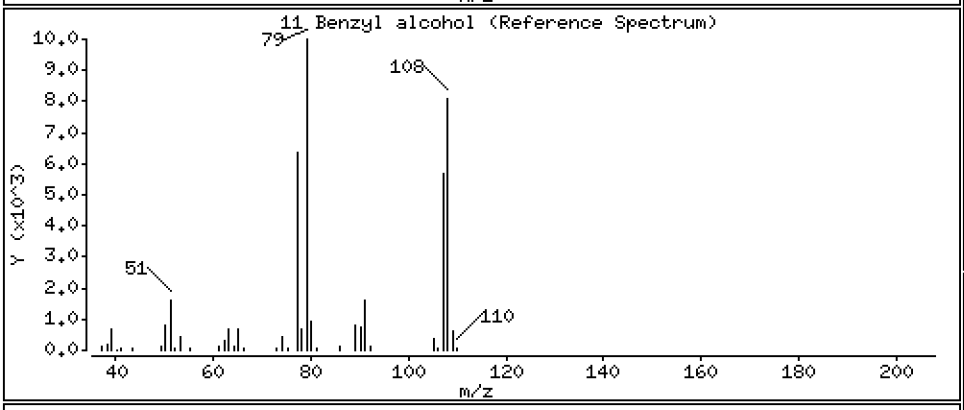
Column diameter: 0.25

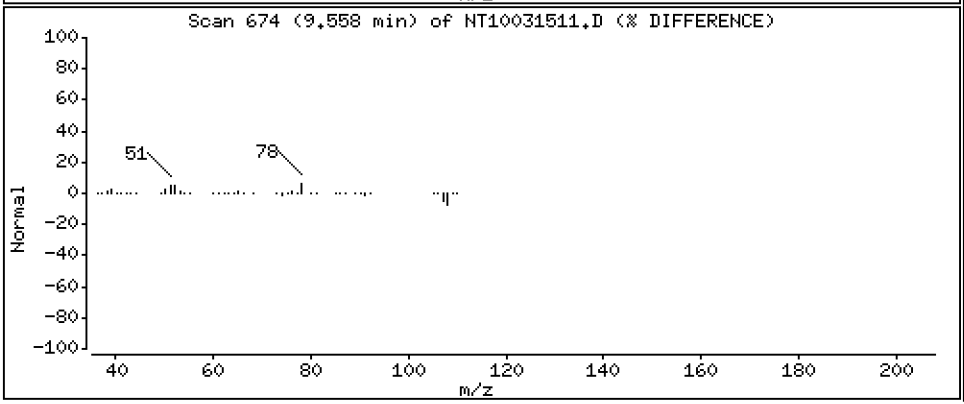
11 Benzyl alcohol

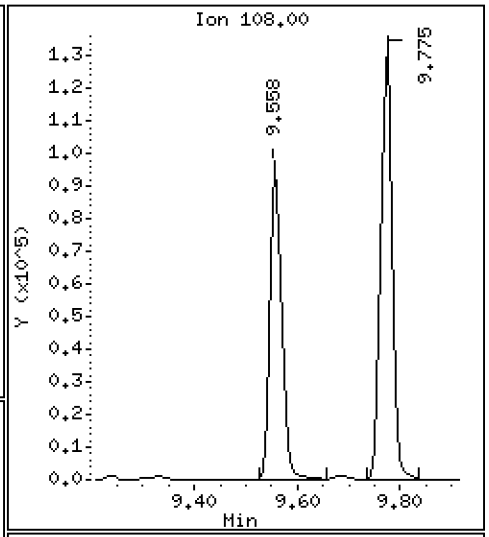
Concentration: 4.927 ug/mL

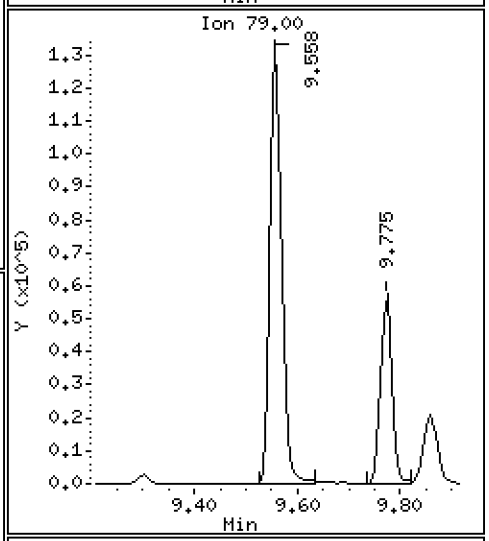


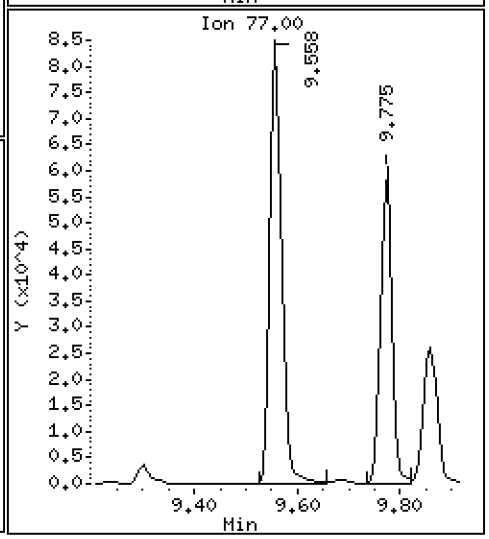












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

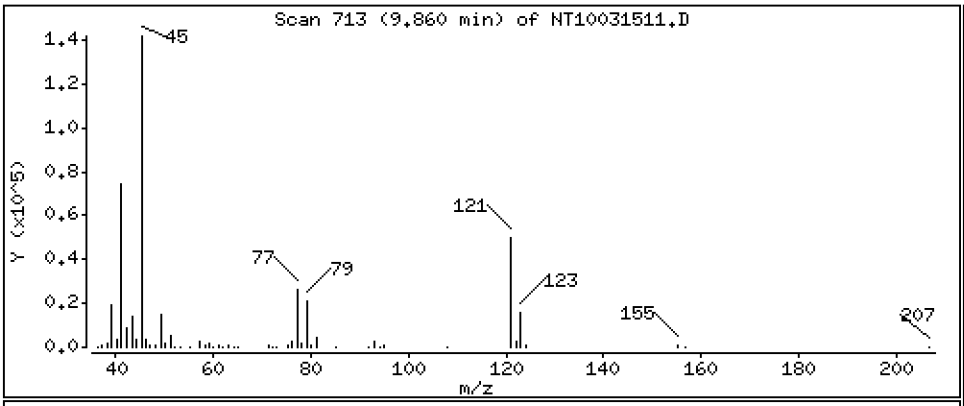
Operator: VTS

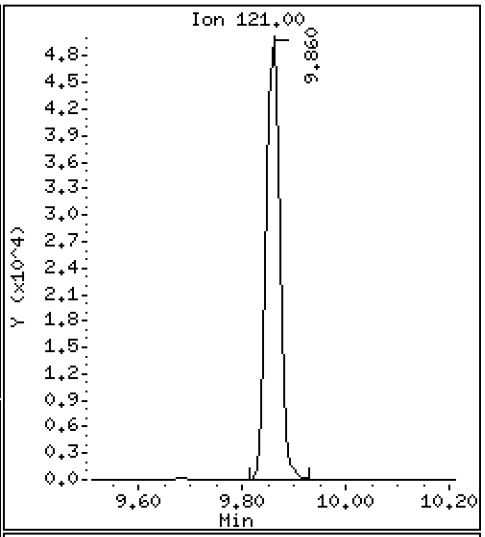
Column phase: ZB-5msi

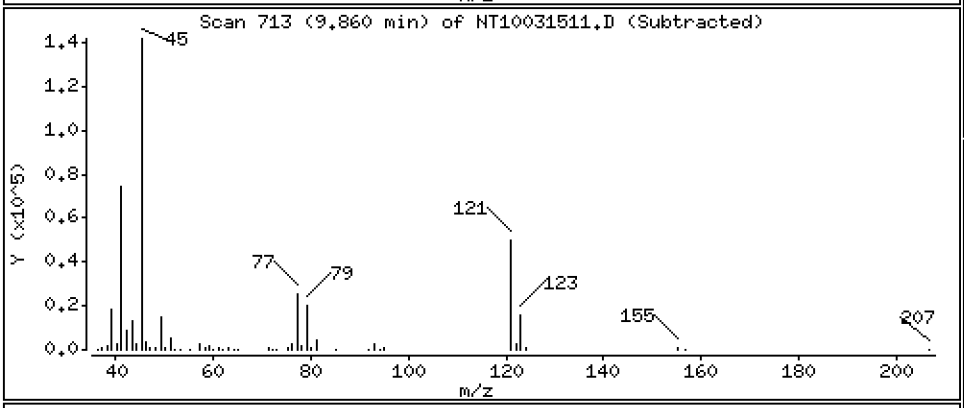
Column diameter: 0.25

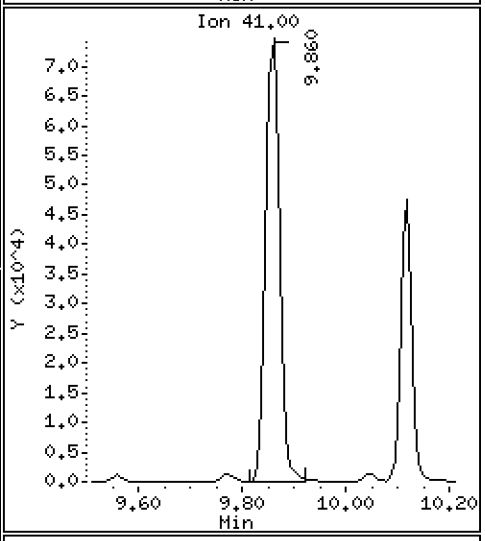
14 2,2'-oxybis(1-Chloropropane)

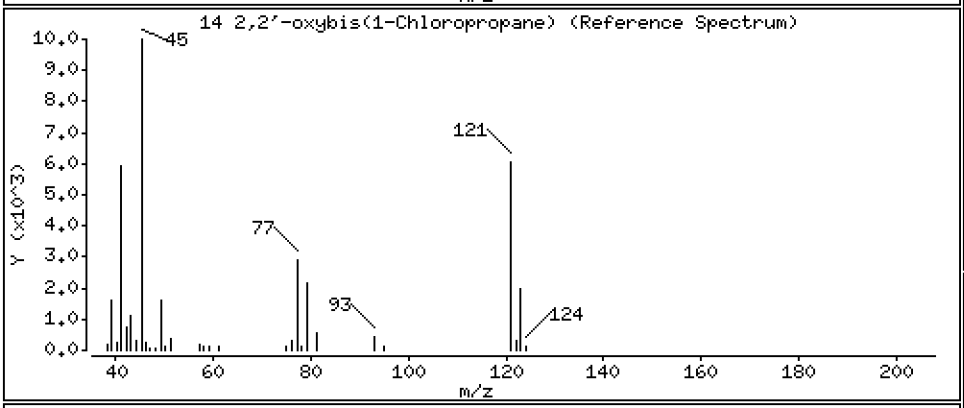
Concentration: 6.214 ug/mL

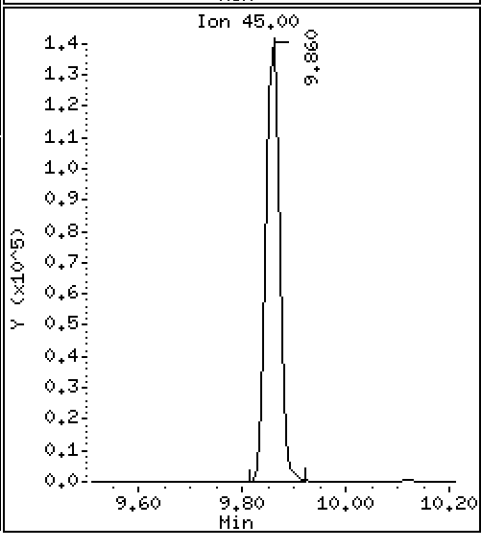


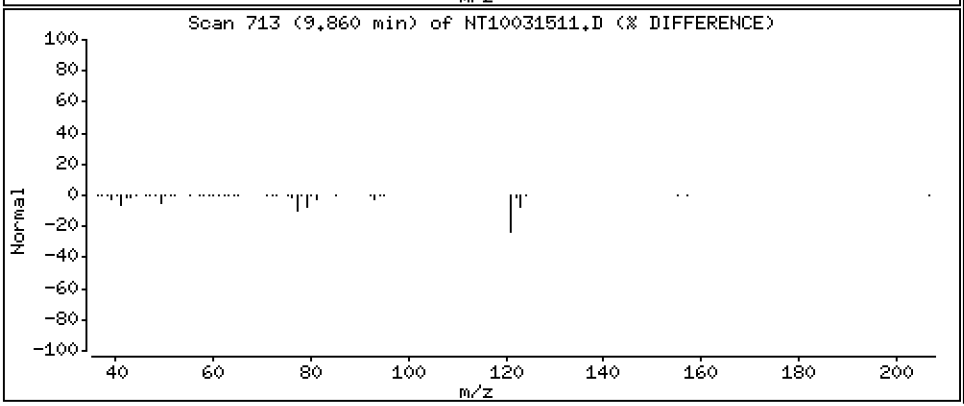












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

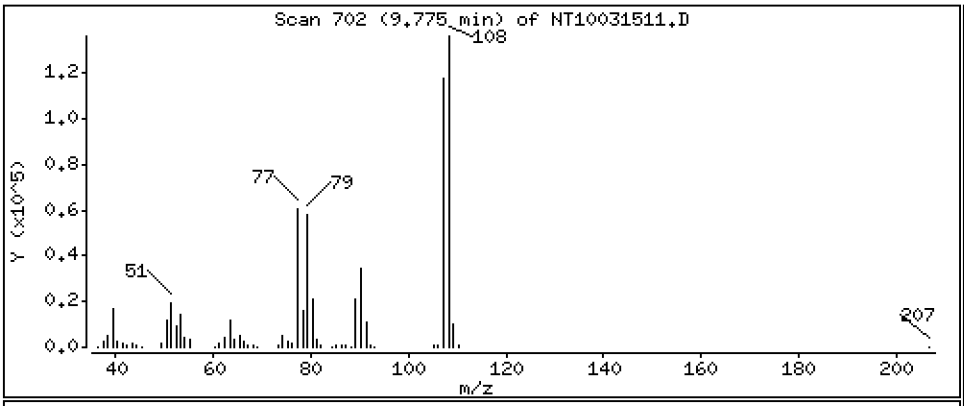
Operator: VTS

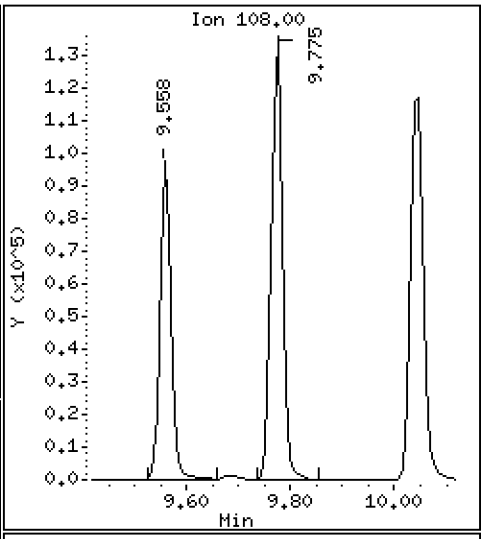
Column phase: ZB-5msi

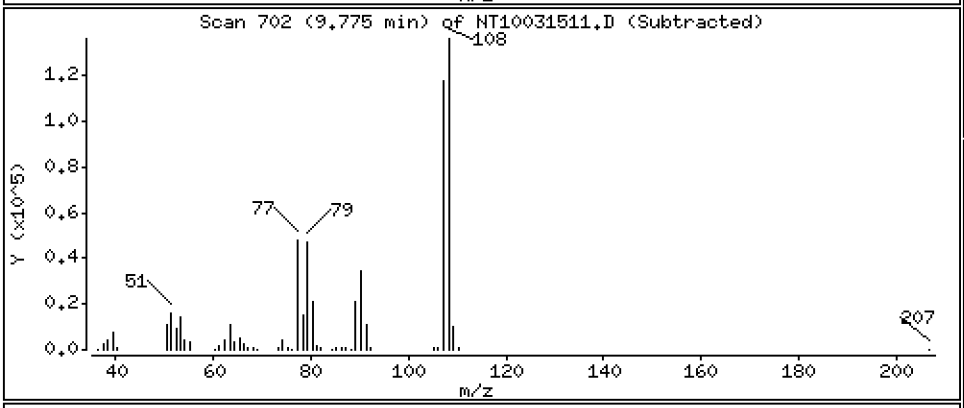
Column diameter: 0.25

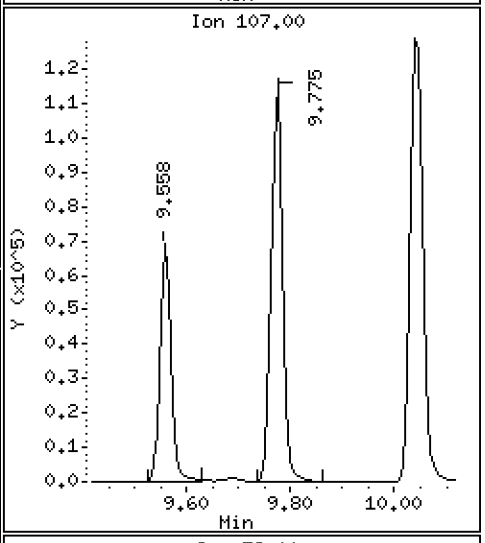
13 2-Methylphenol

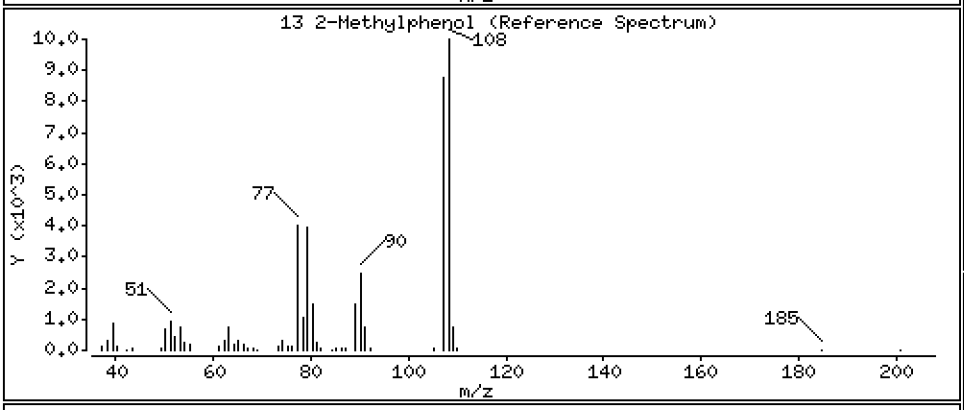
Concentration: 4.215 ug/mL

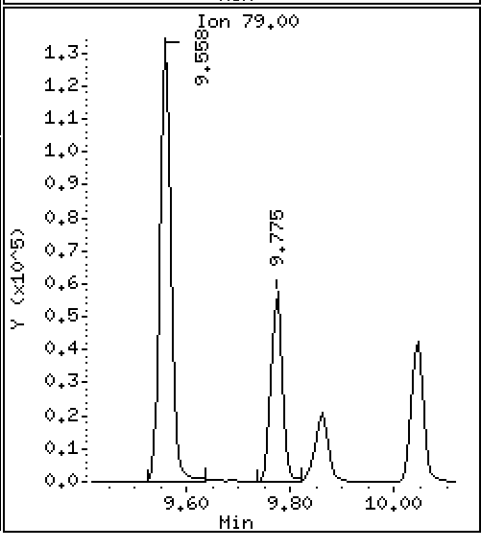


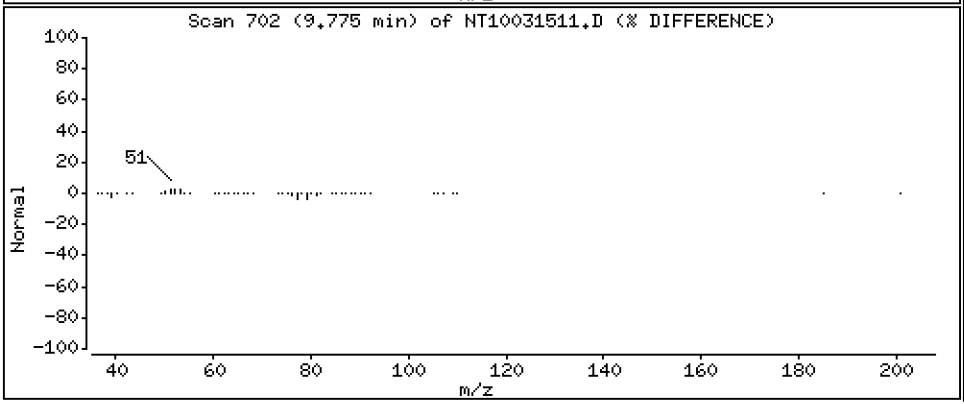












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

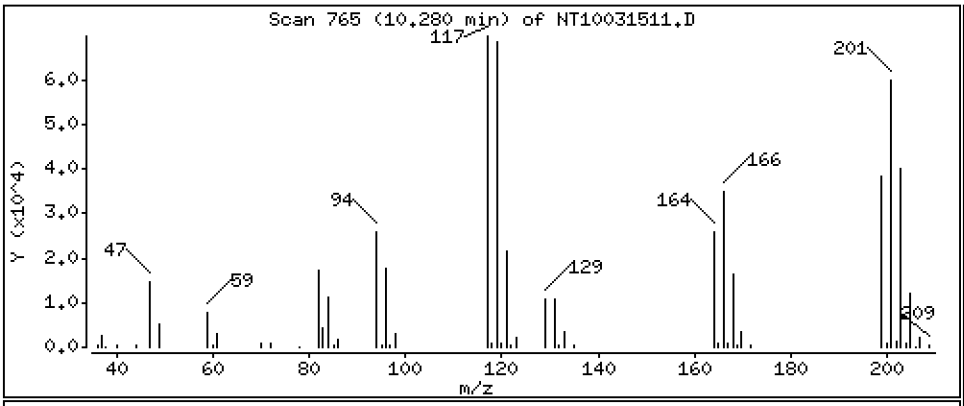
Operator: VTS

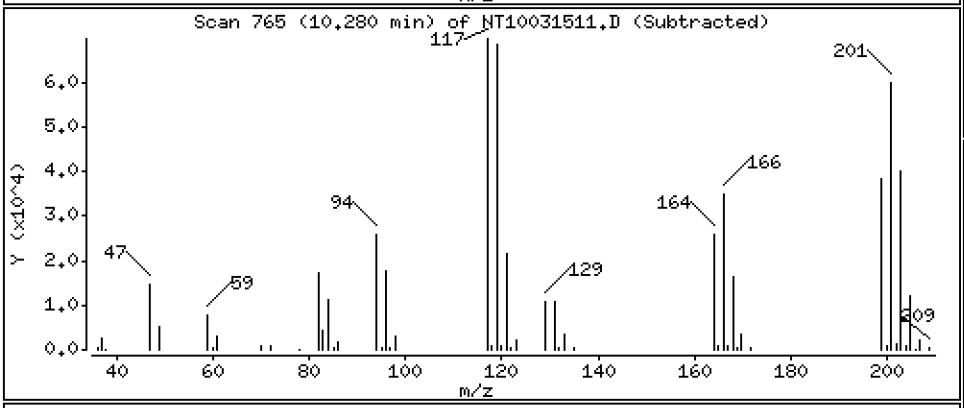
Column phase: ZB-5msi

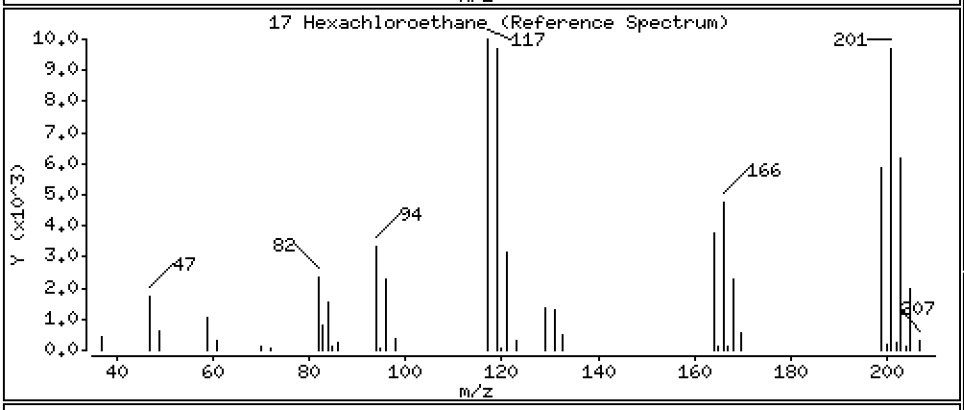
Column diameter: 0.25

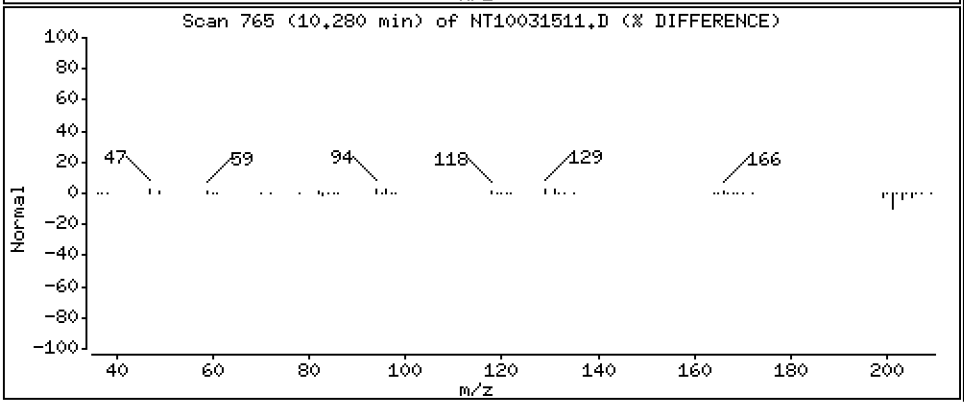
17 Hexachloroethane

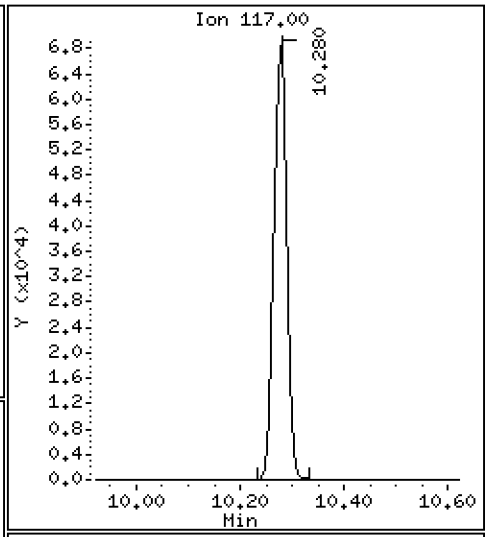
Concentration: 5.003 ug/mL

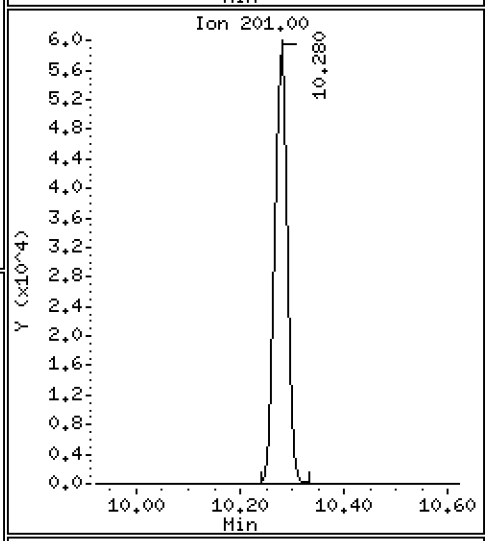


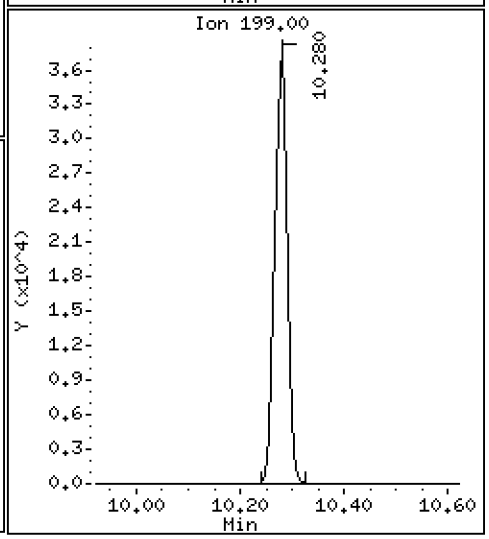












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

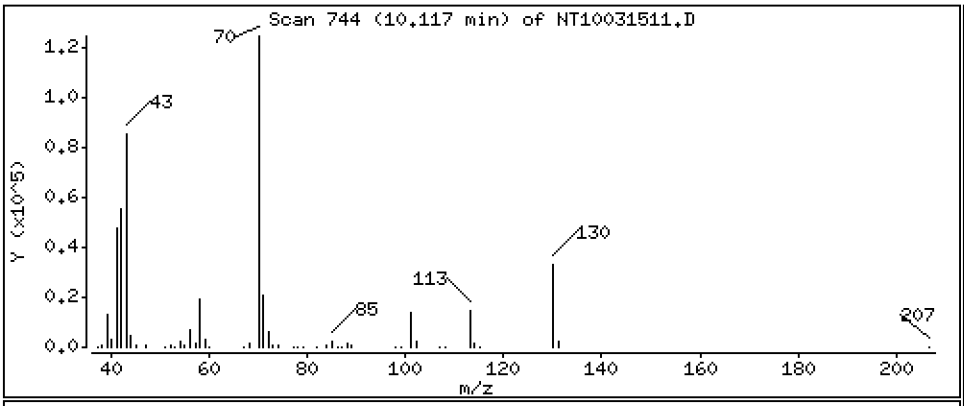
Operator: VTS

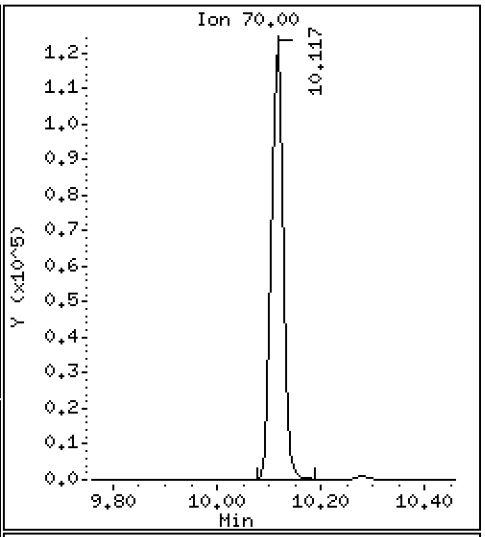
Column phase: ZB-5msi

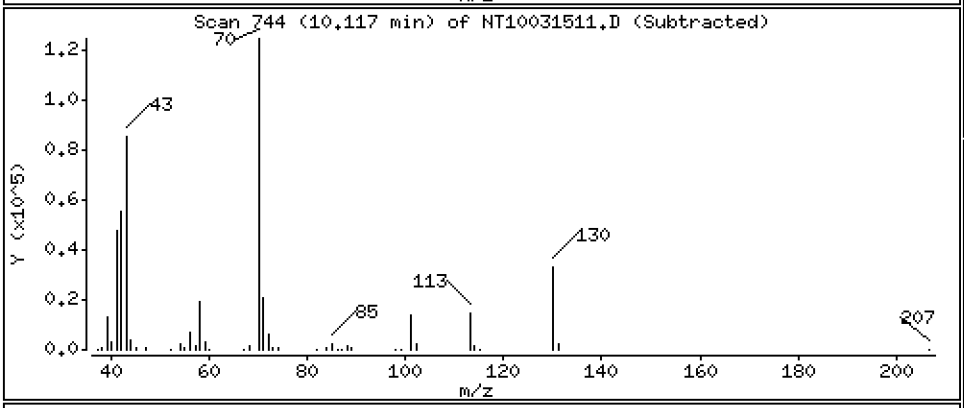
Column diameter: 0.25

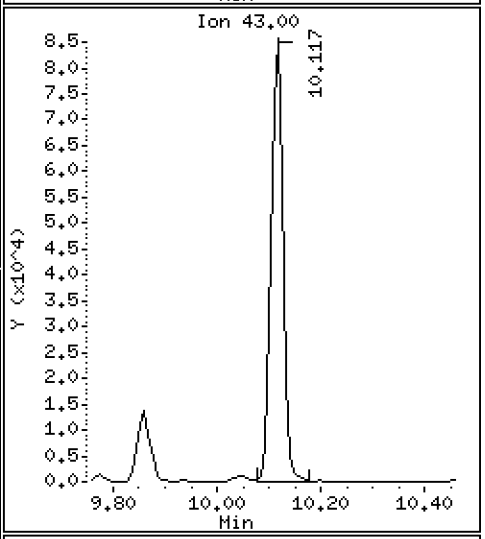
16 N-Nitroso-di-n-propylamine

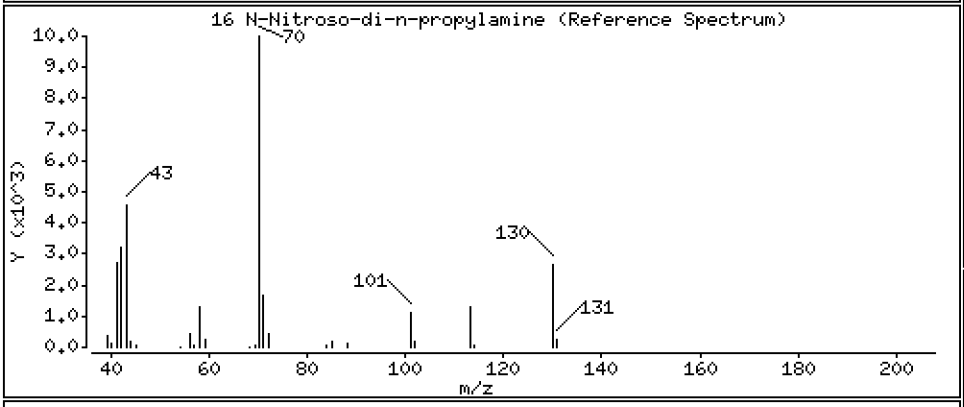
Concentration: 5.179 ug/mL

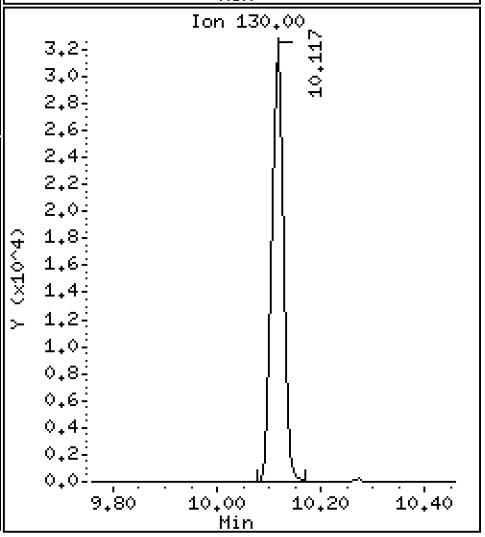


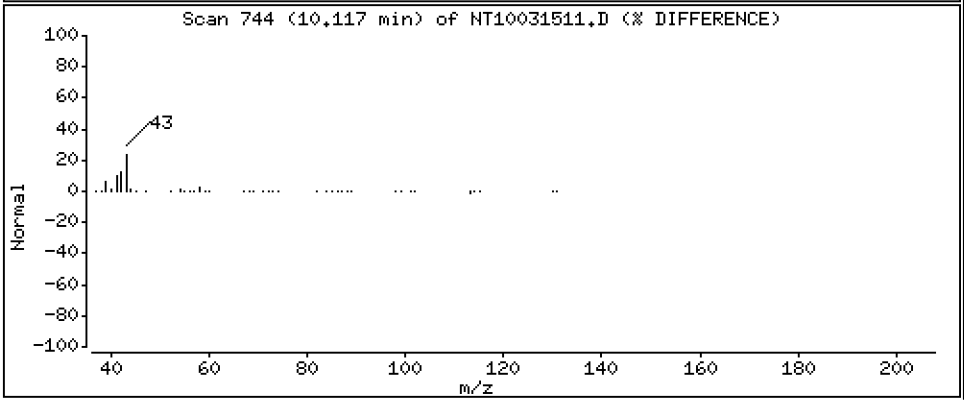












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

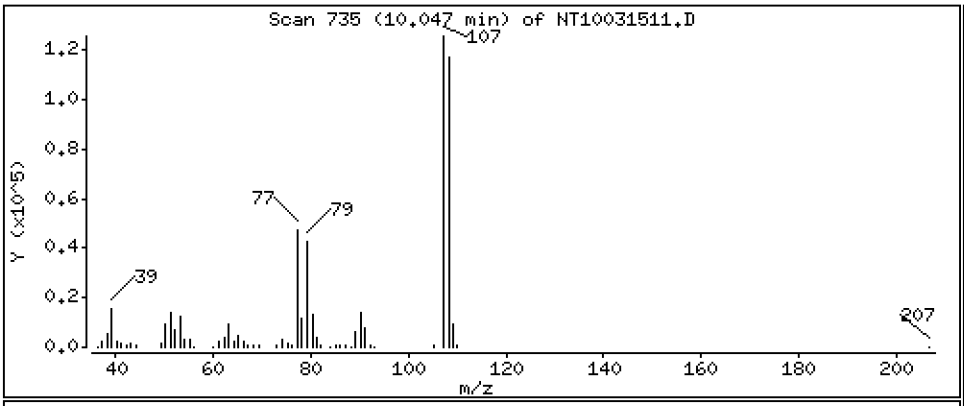
Operator: VTS

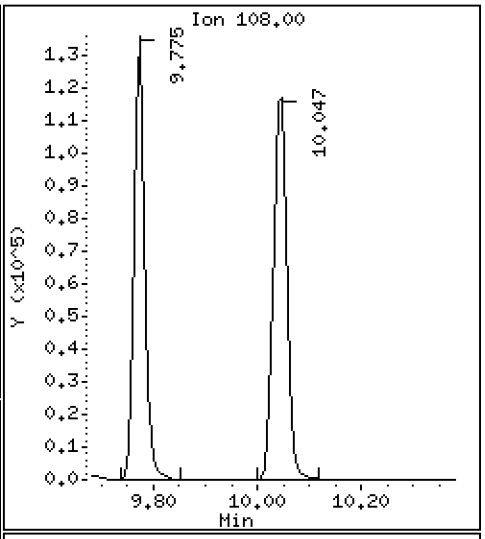
Column phase: ZB-5msi

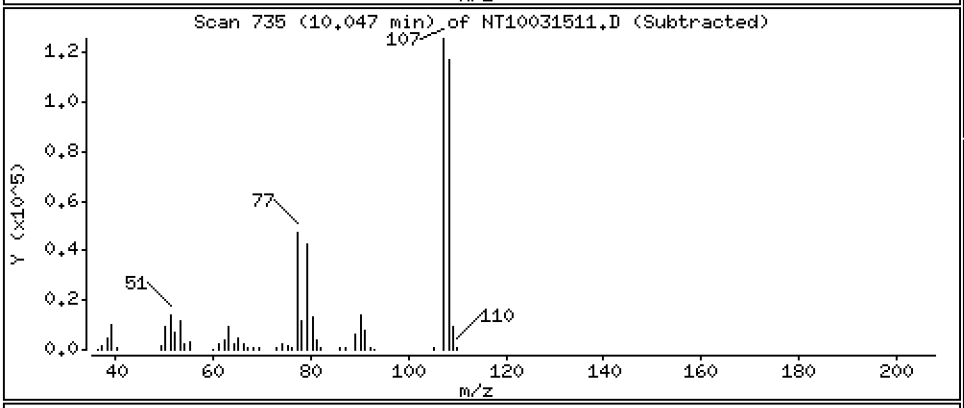
Column diameter: 0.25

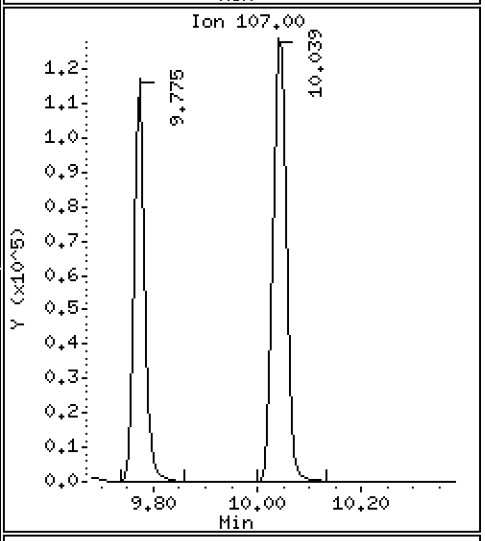
15 4-Methylphenol

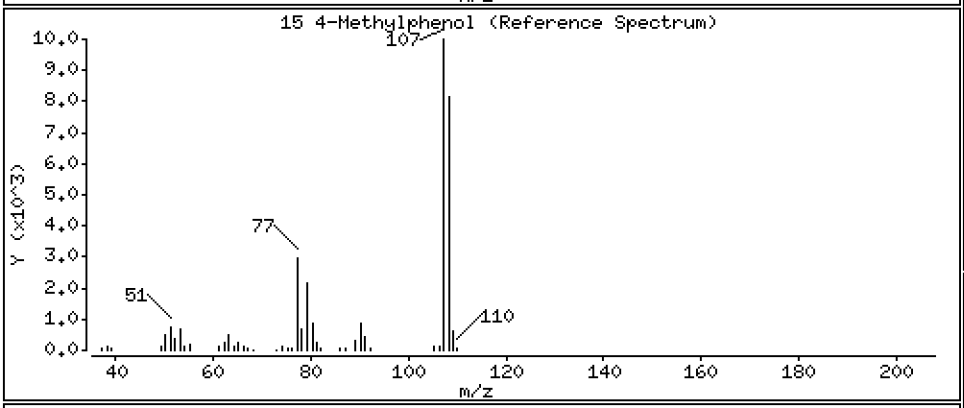
Concentration: 4.365 ug/mL

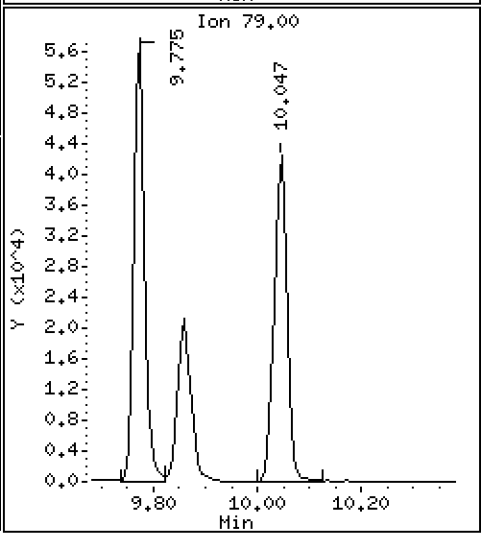


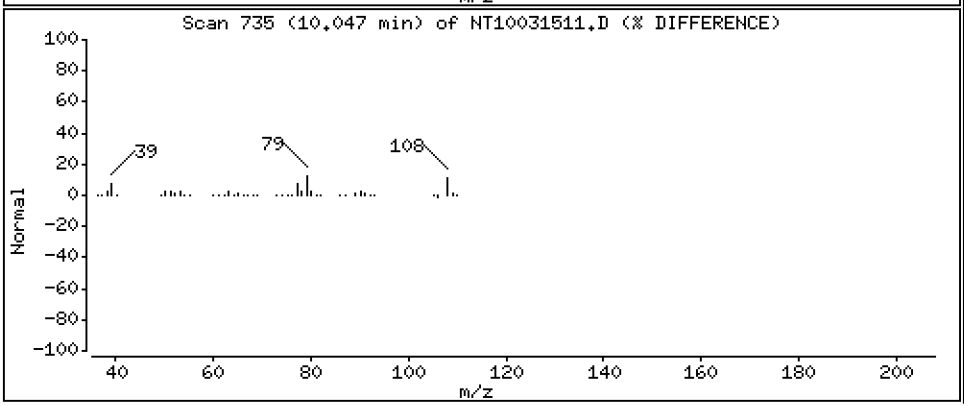












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

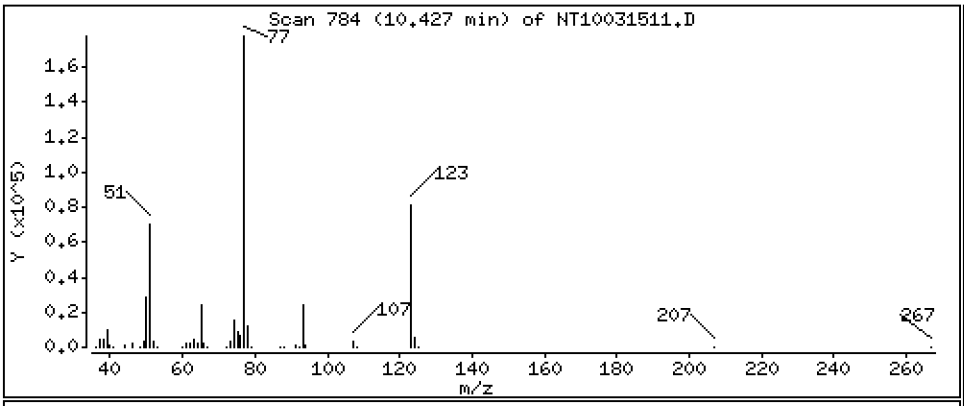
Operator: VTS

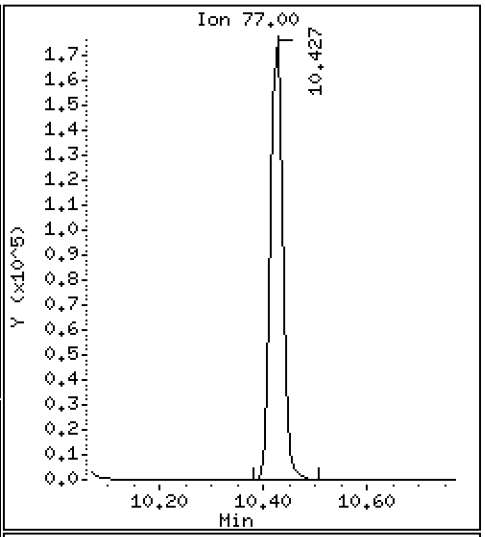
Column phase: ZB-5msi

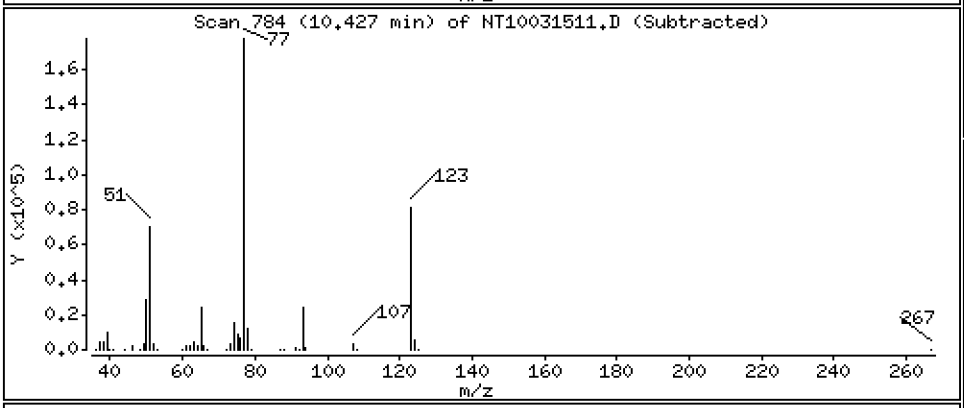
Column diameter: 0.25

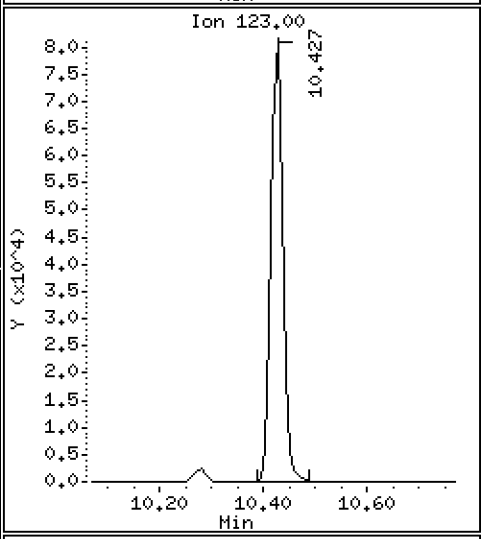
19 Nitrobenzene

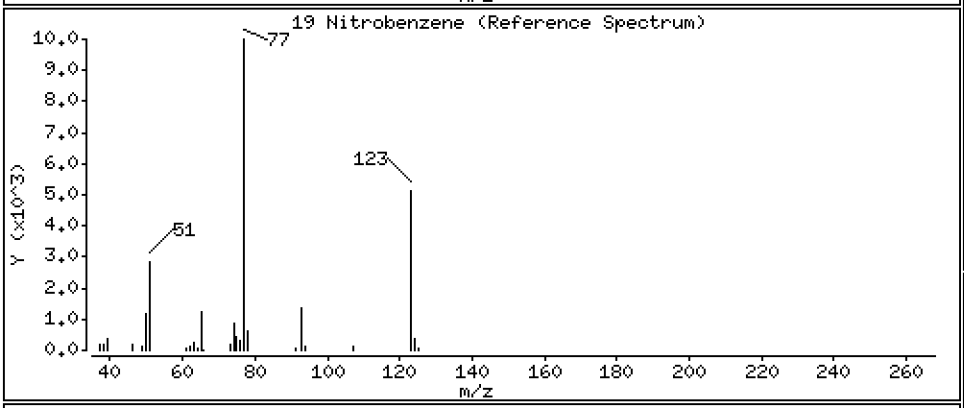
Concentration: 4.858 ug/mL

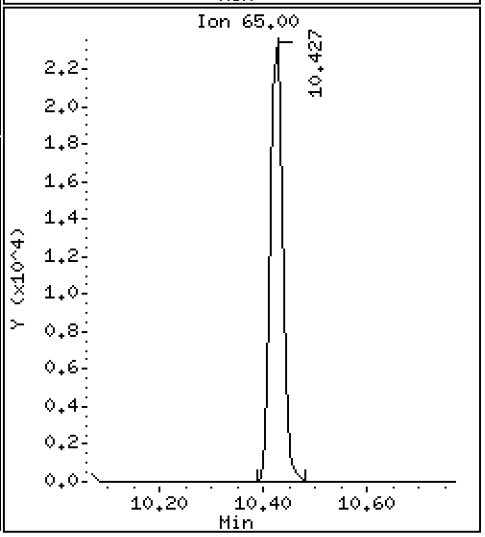


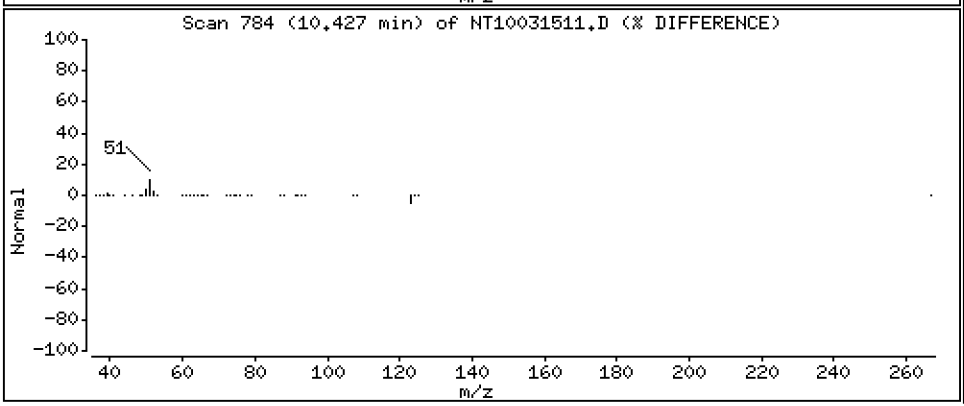












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

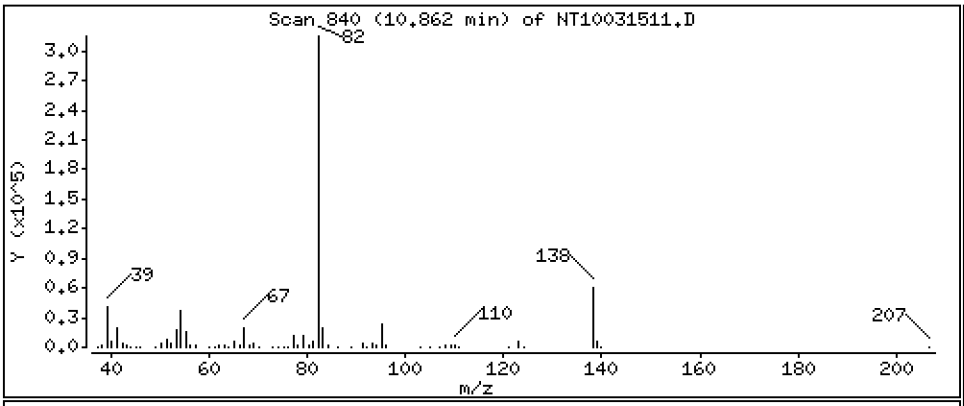
Operator: VTS

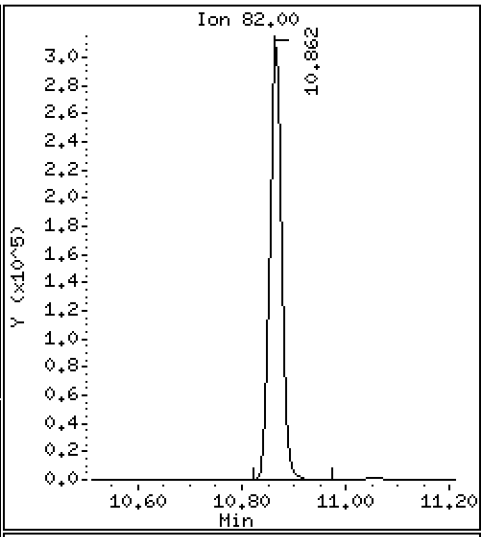
Column phase: ZB-5msi

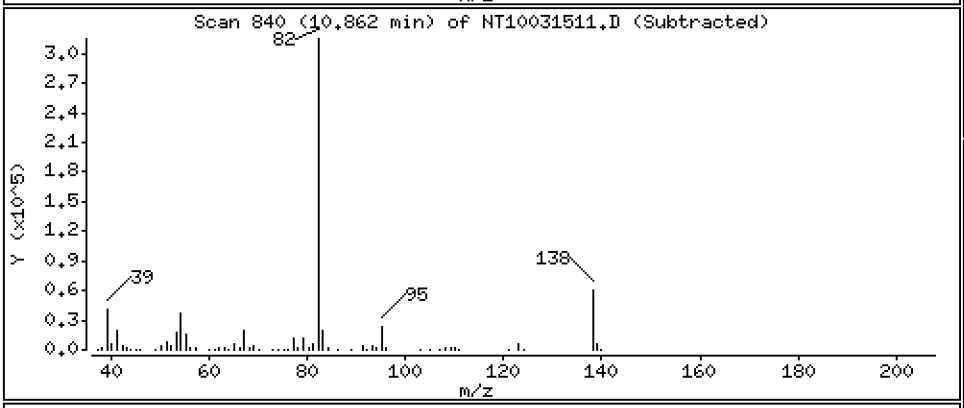
Column diameter: 0.25

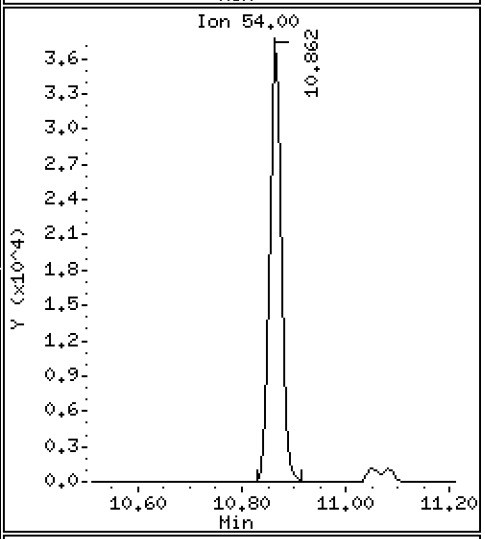
20 Isophorone

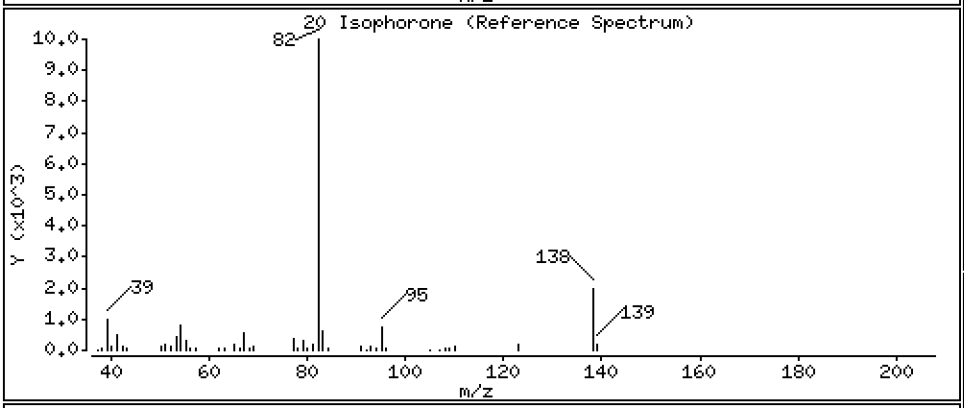
Concentration: 7.696 ug/mL

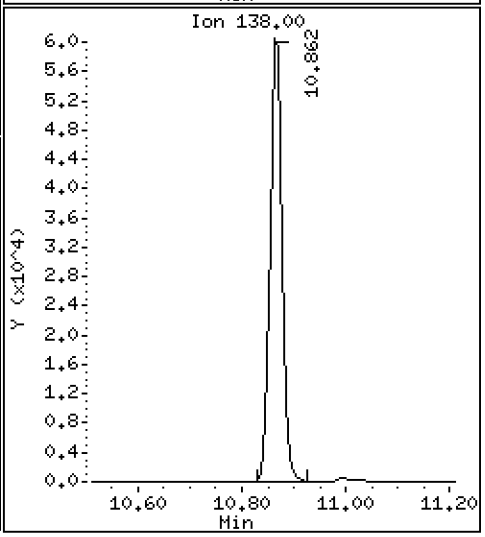


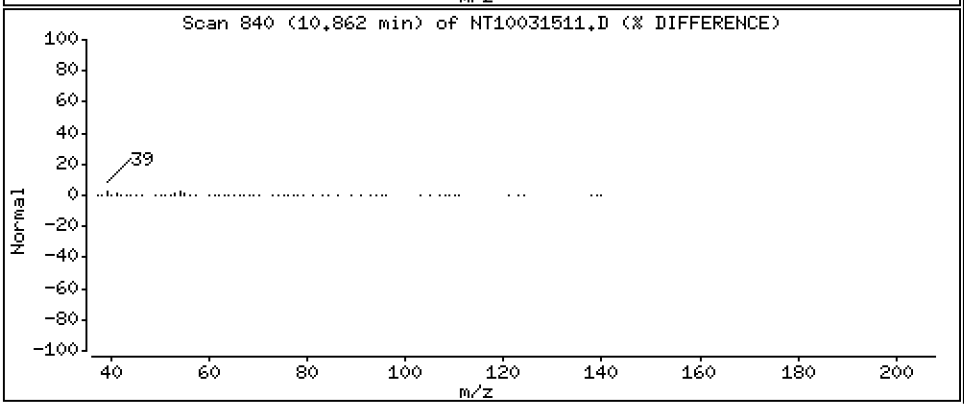












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

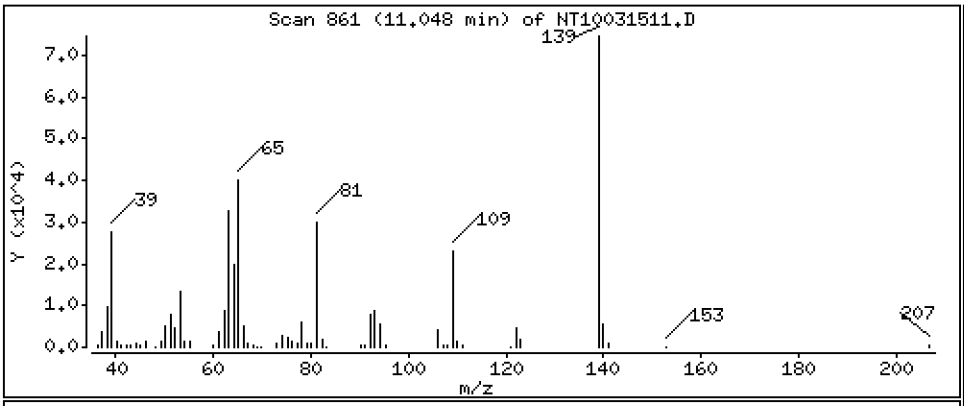
Operator: VTS

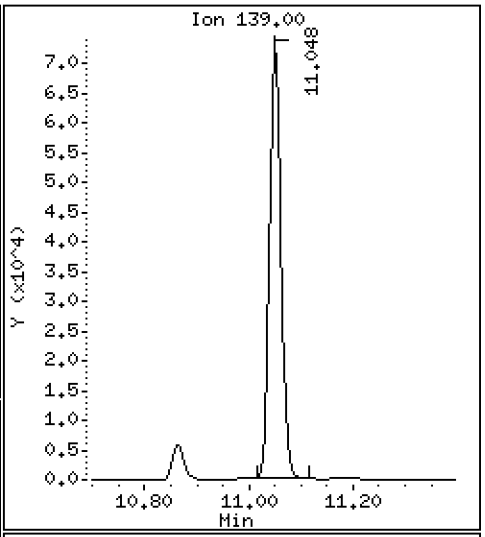
Column phase: ZB-5msi

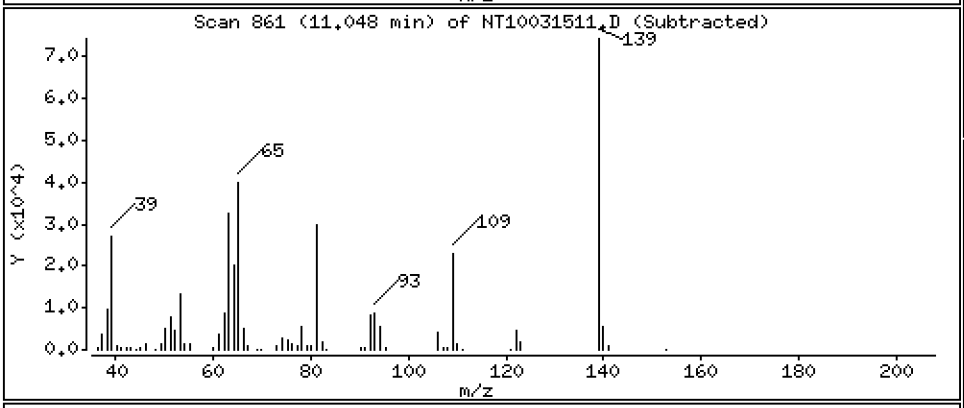
Column diameter: 0.25

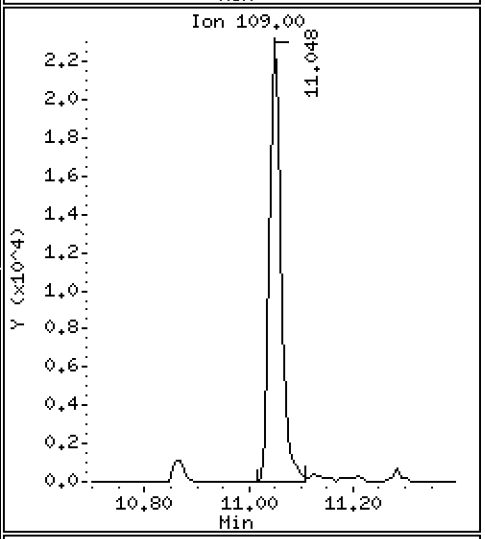
21 2-Nitrophenol

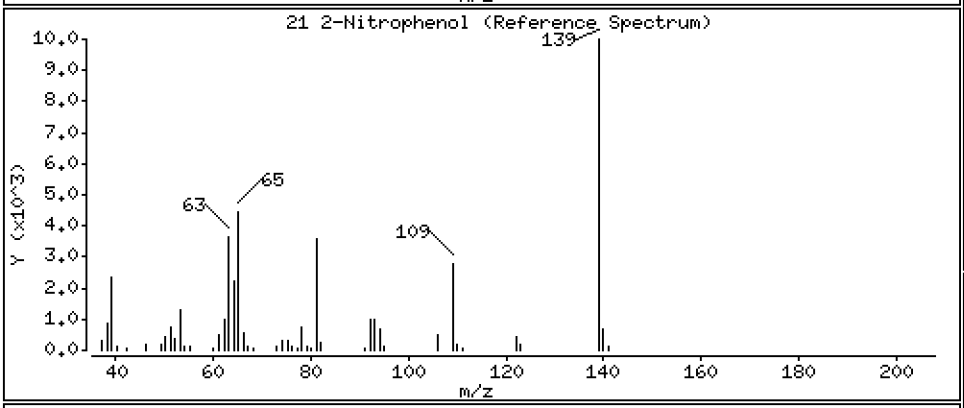
Concentration: 3.995 ug/mL

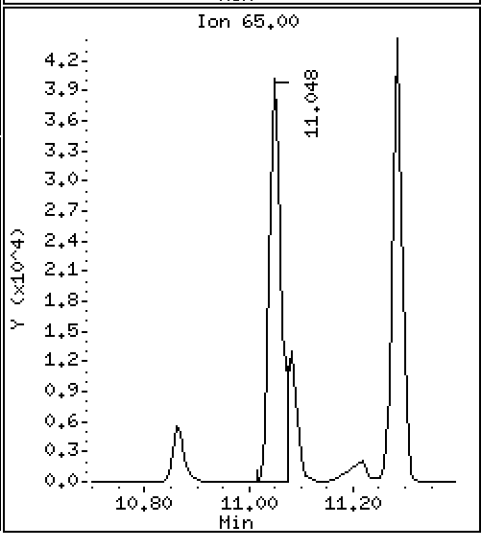


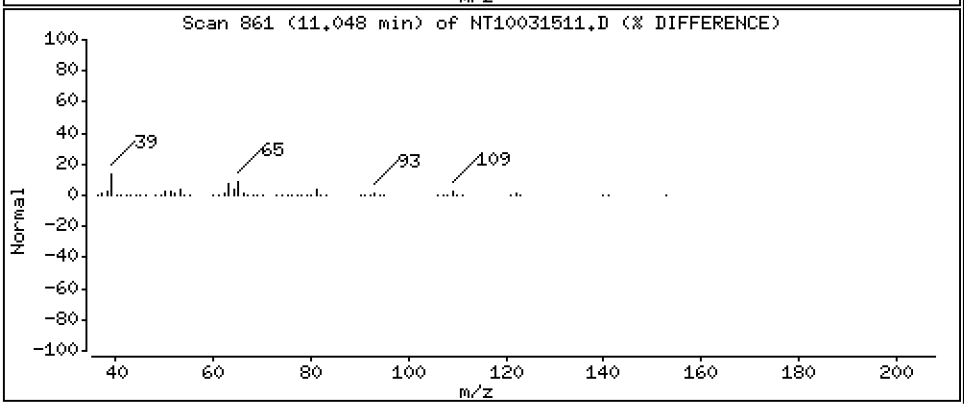












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

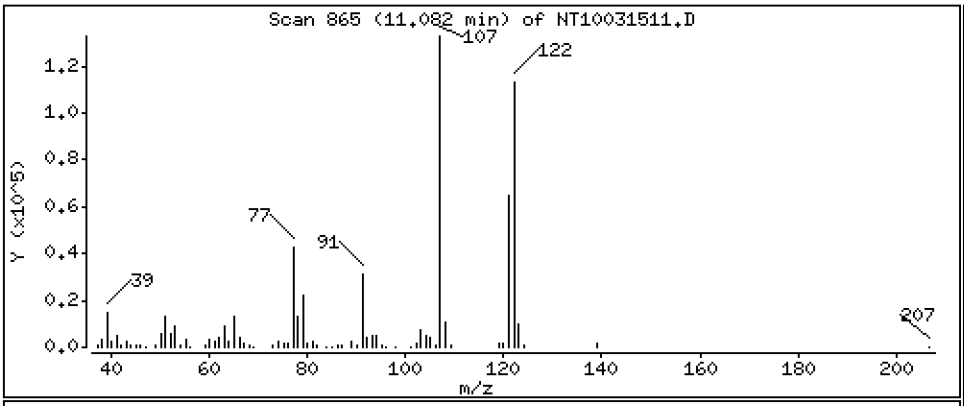
Operator: VTS

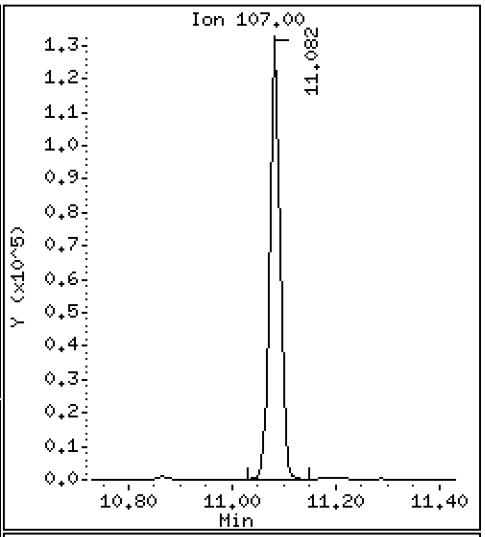
Column phase: ZB-5msi

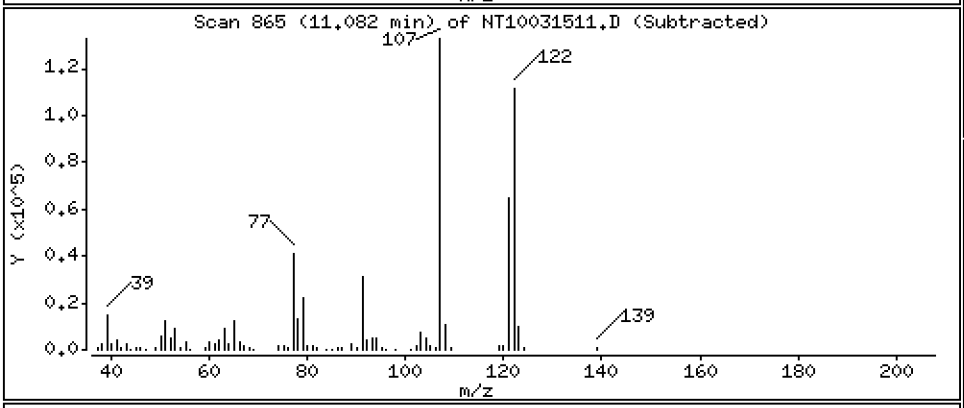
Column diameter: 0.25

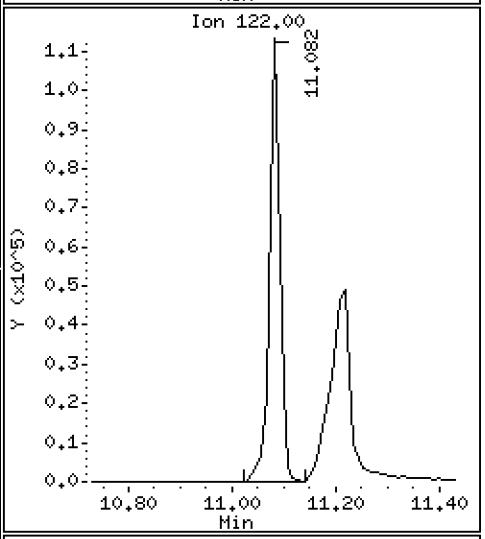
22 2,4-Dimethylphenol

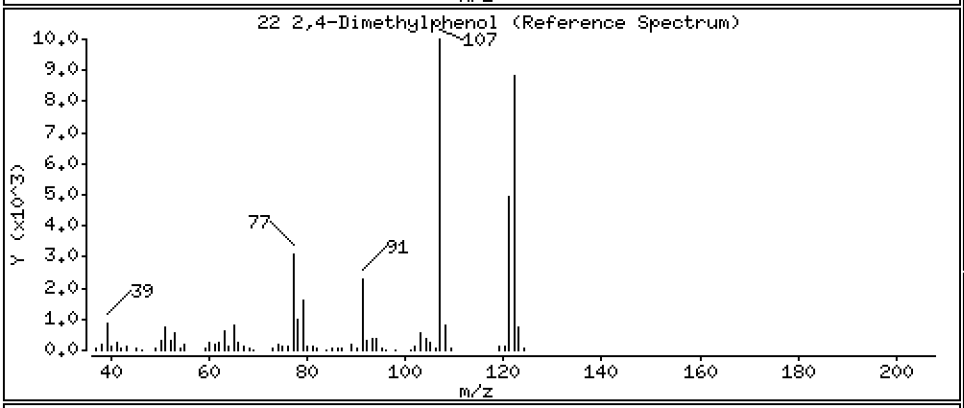
Concentration: 3.632 ug/mL

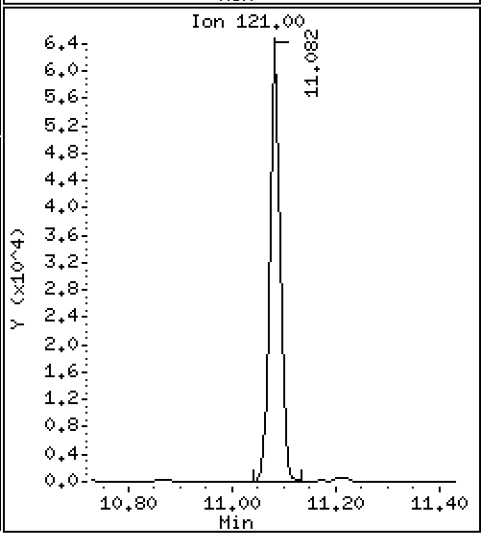


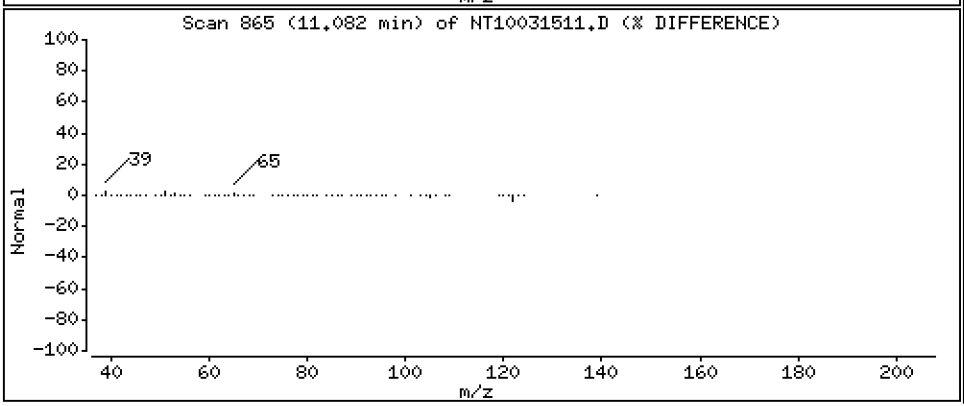












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

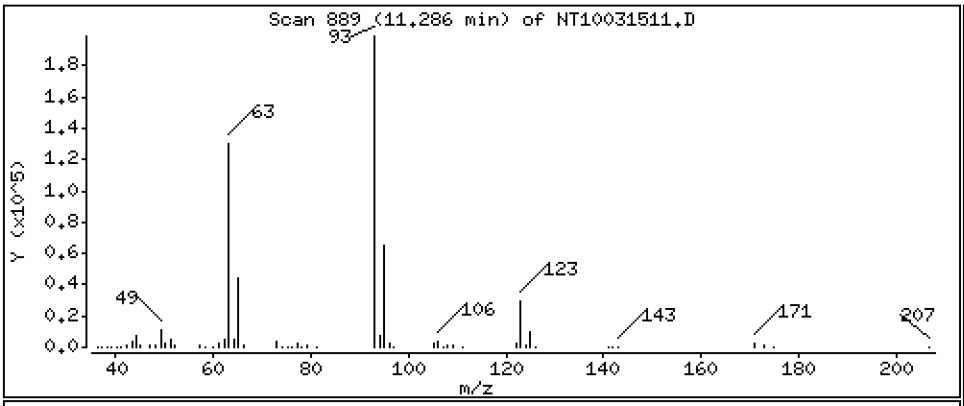
Operator: VTS

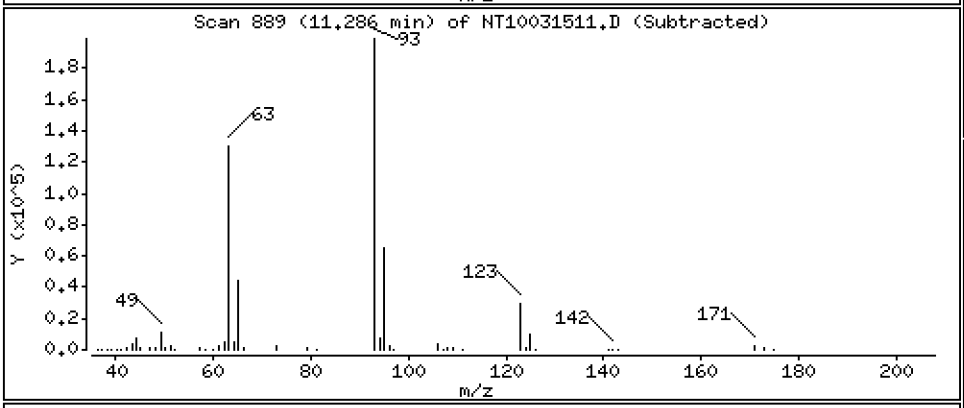
Column phase: ZB-5msi

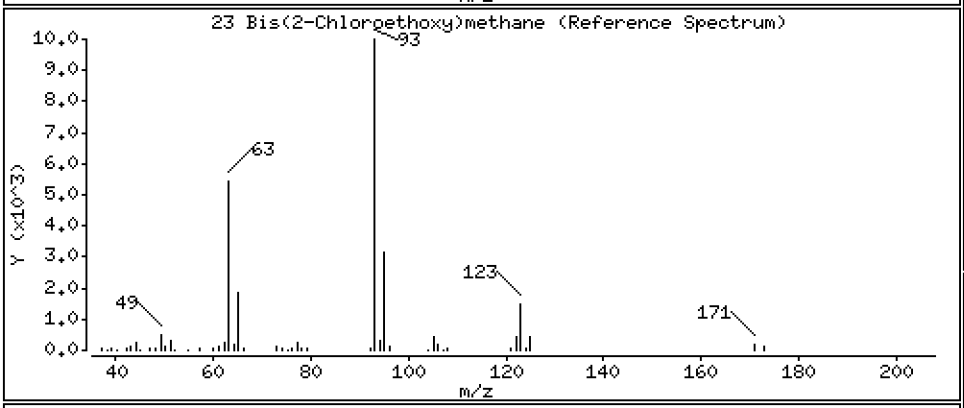
Column diameter: 0.25

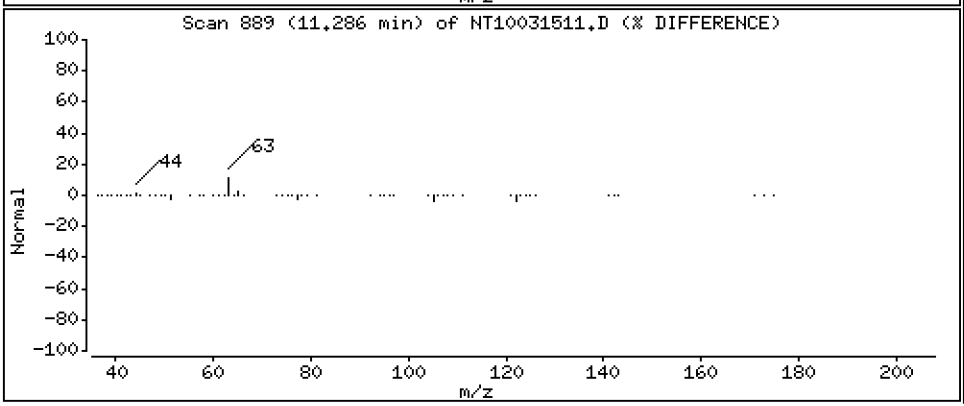
23 Bis(2-Chloroethoxy)methane

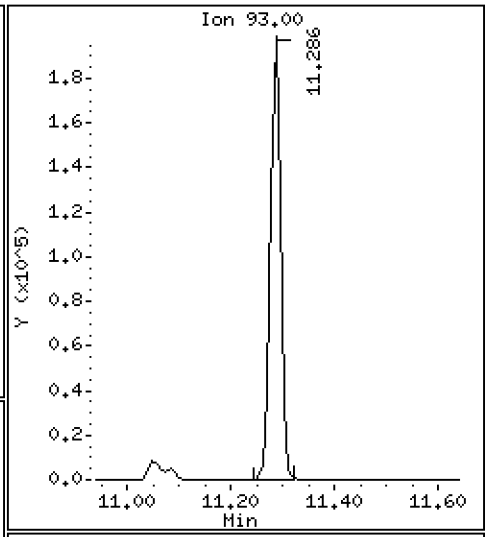
Concentration: 5.654 ug/mL

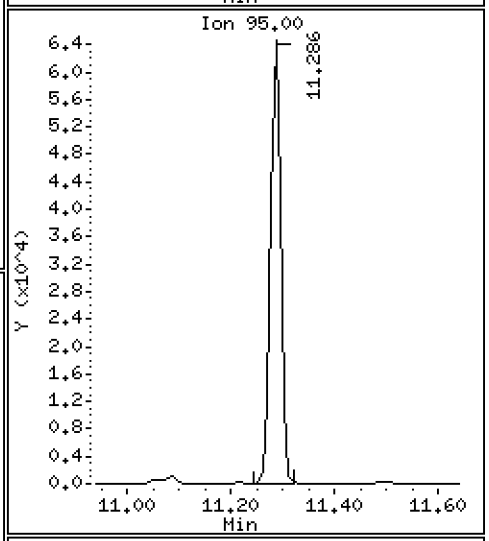


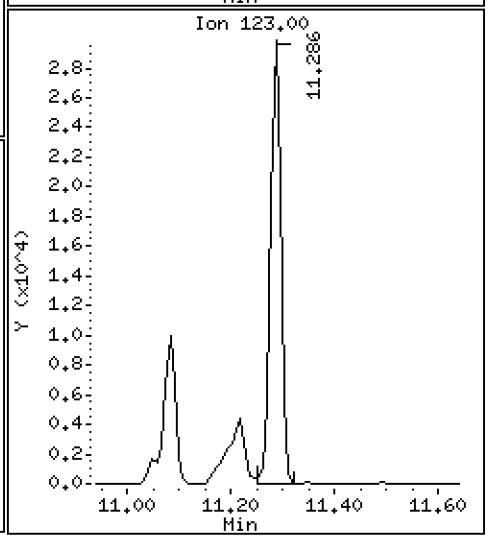












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

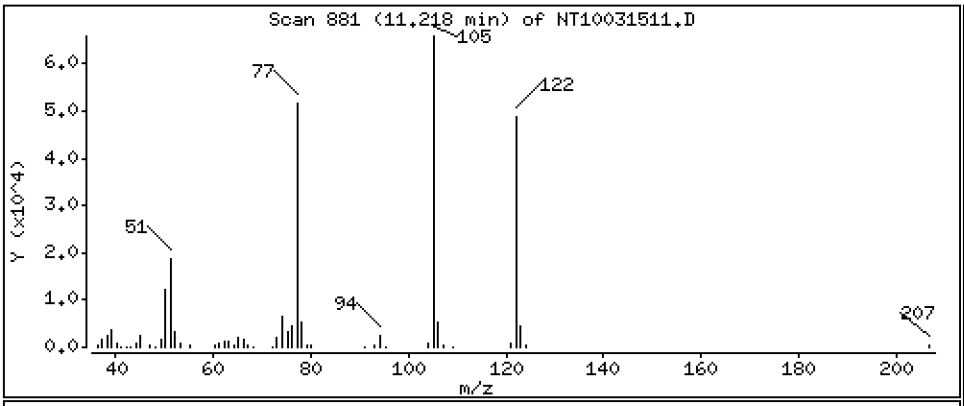
Operator: VTS

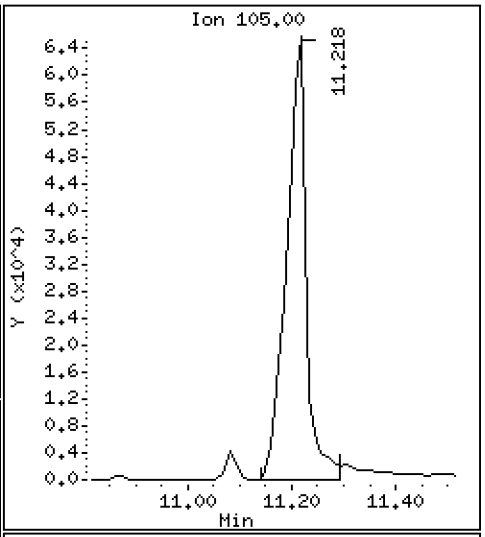
Column phase: ZB-5msi

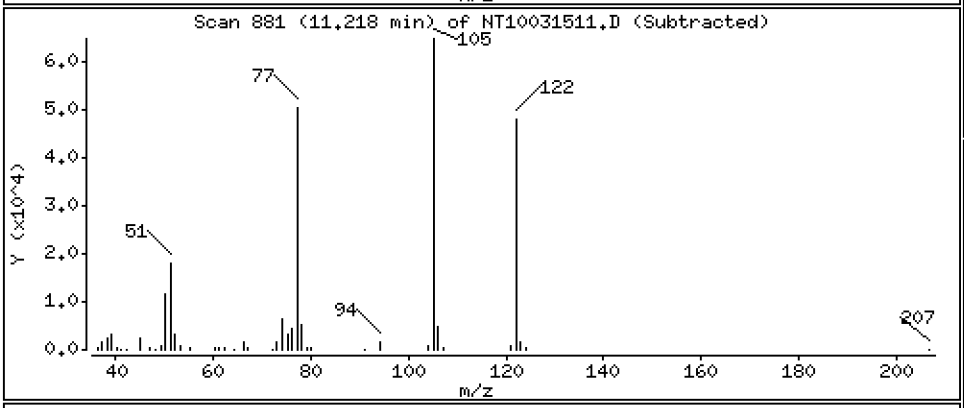
Column diameter: 0.25

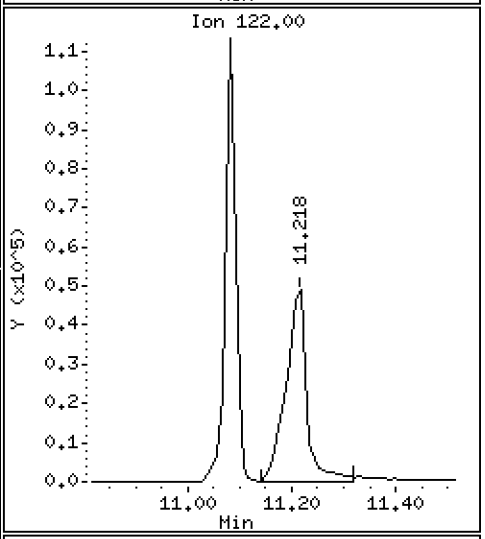
24 Benzoic acid

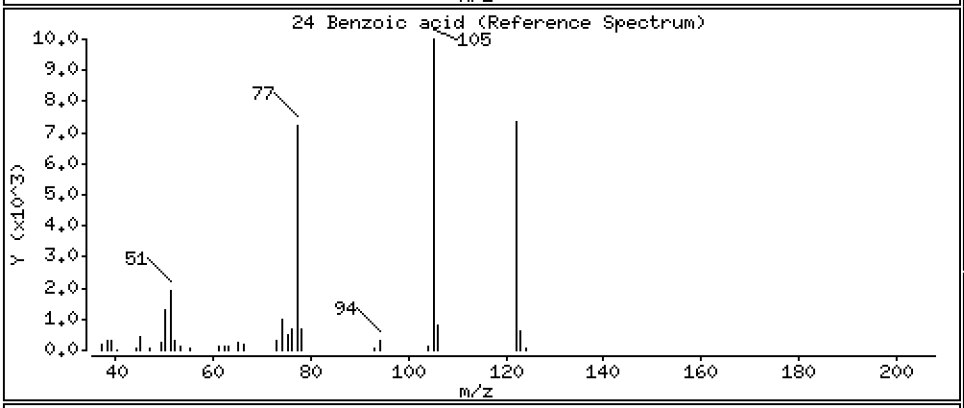
Concentration: 5.952 ug/mL

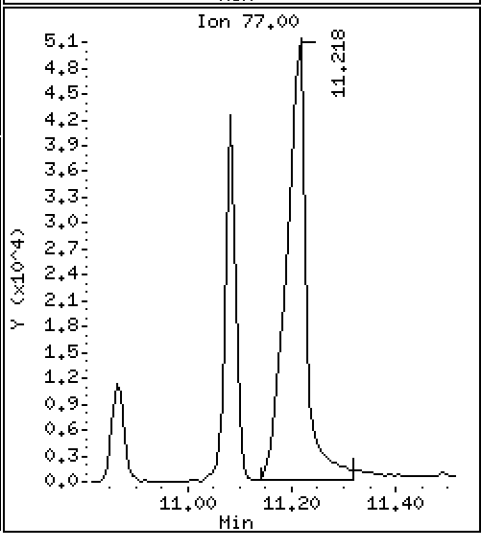


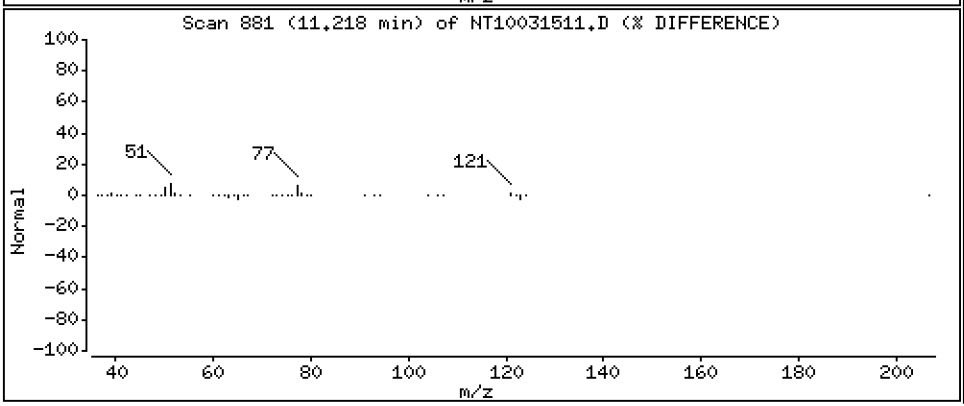












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

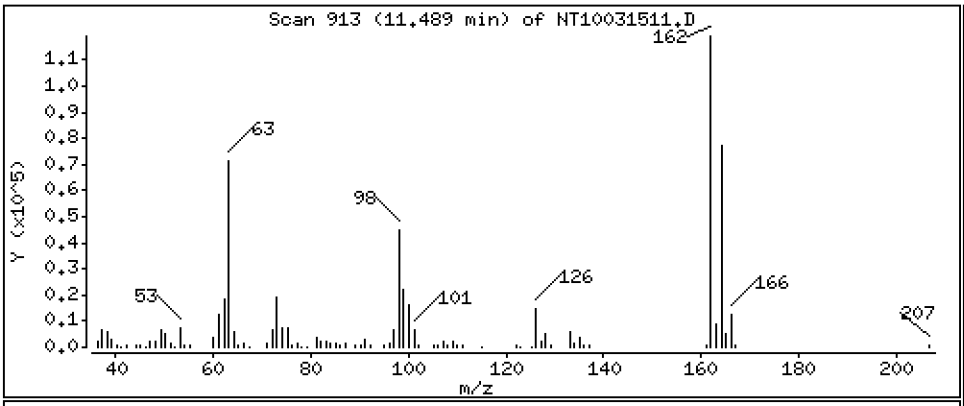
Operator: VTS

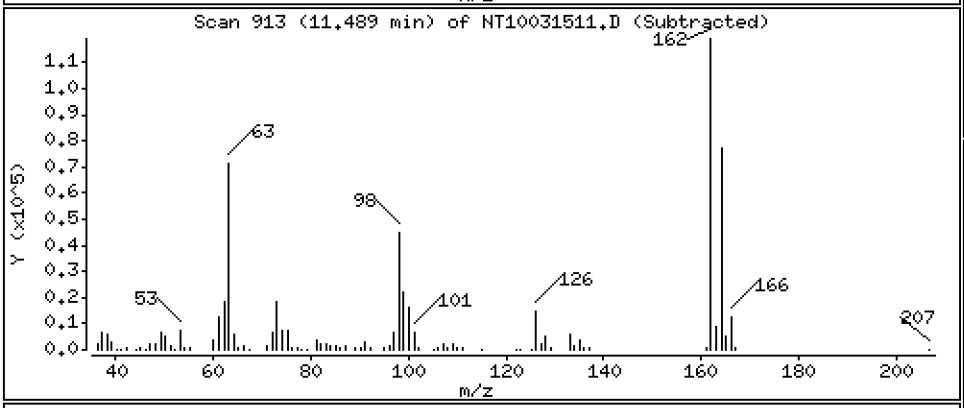
Column phase: ZB-5msi

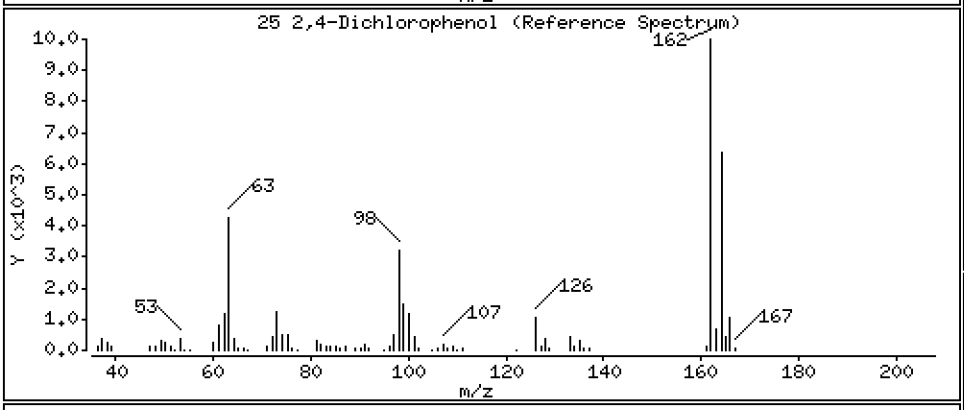
Column diameter: 0.25

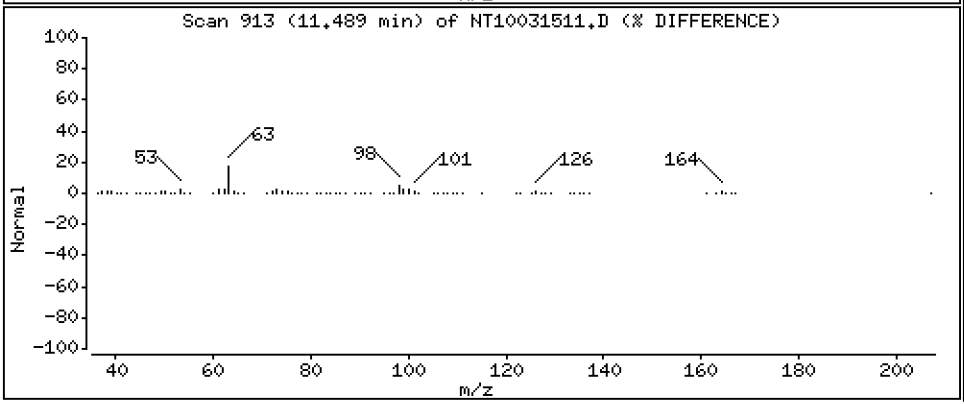
25 2,4-Dichlorophenol

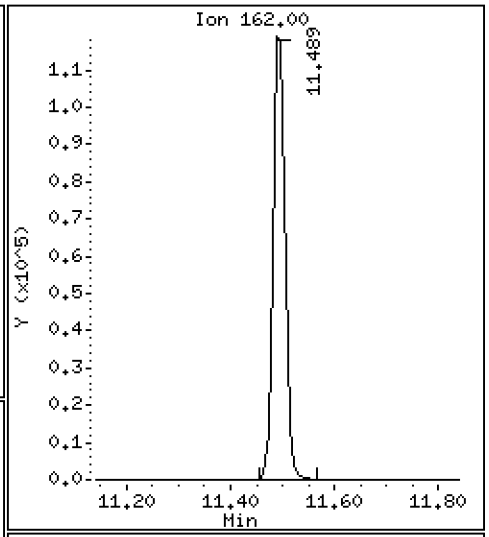
Concentration: 4.703 ug/mL

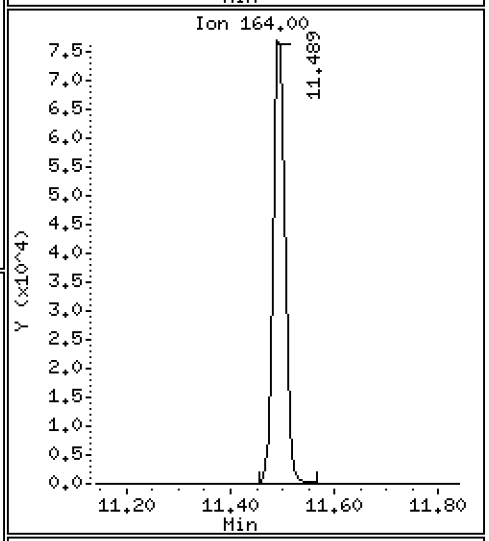


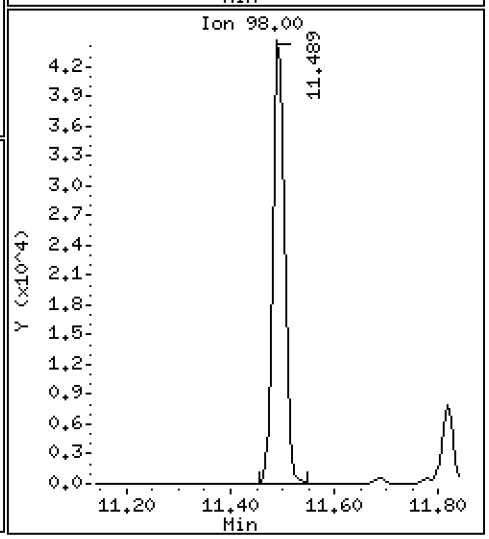












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

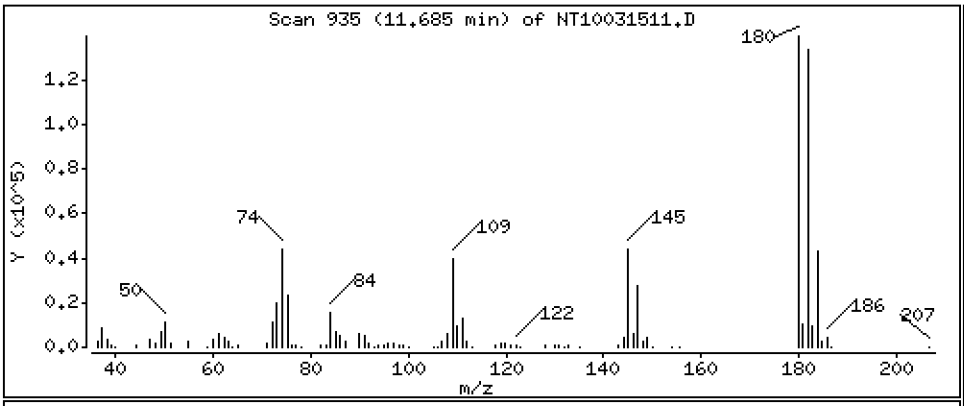
Operator: VTS

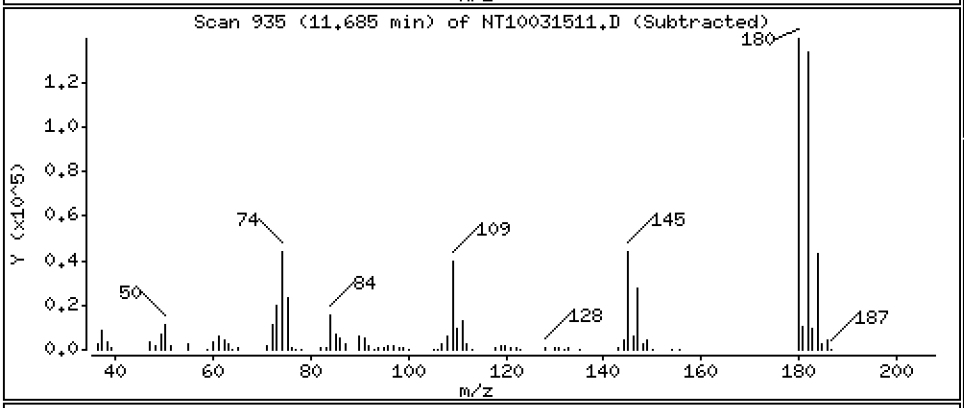
Column phase: ZB-5msi

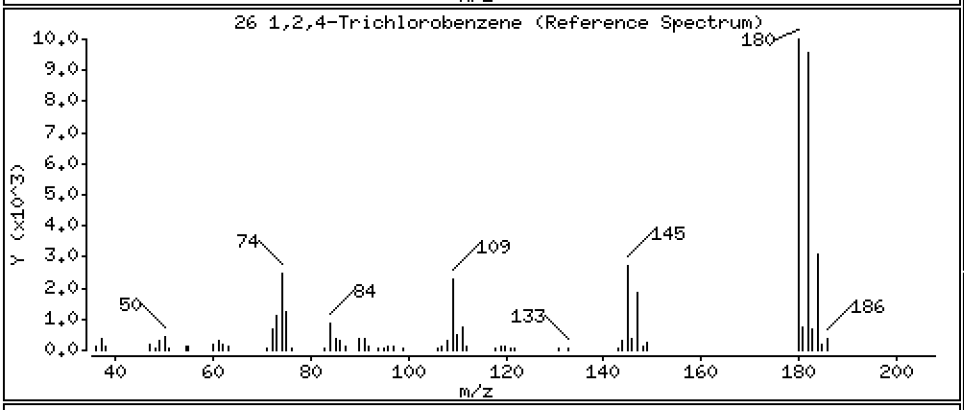
Column diameter: 0.25

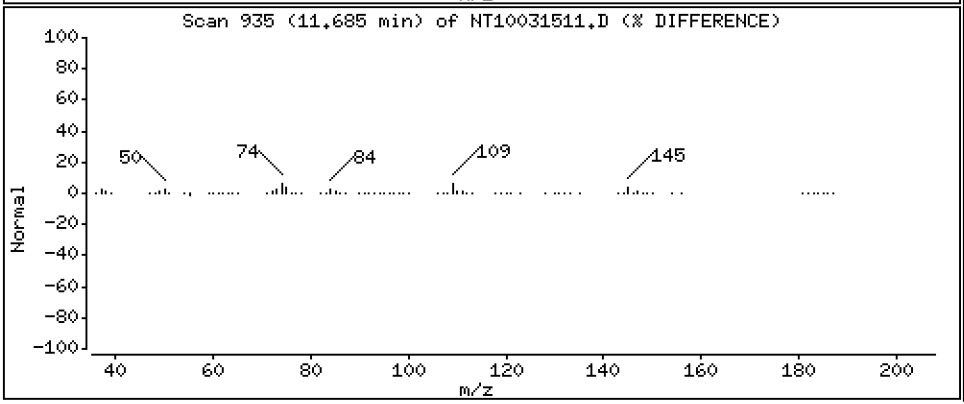
26 1,2,4-Trichlorobenzene

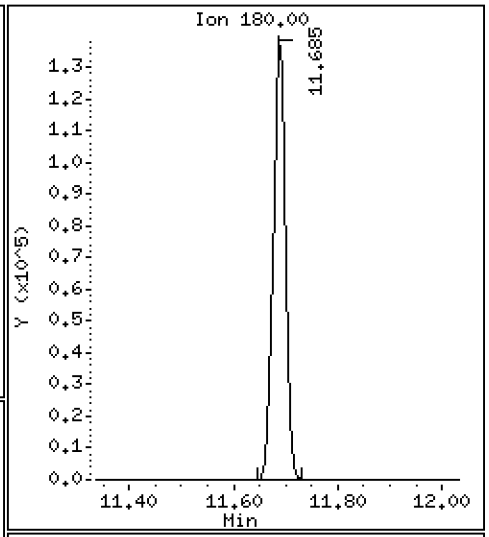
Concentration: 4.554 ug/mL

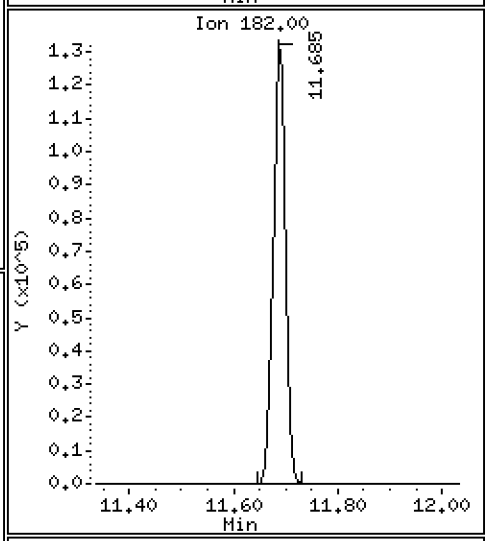


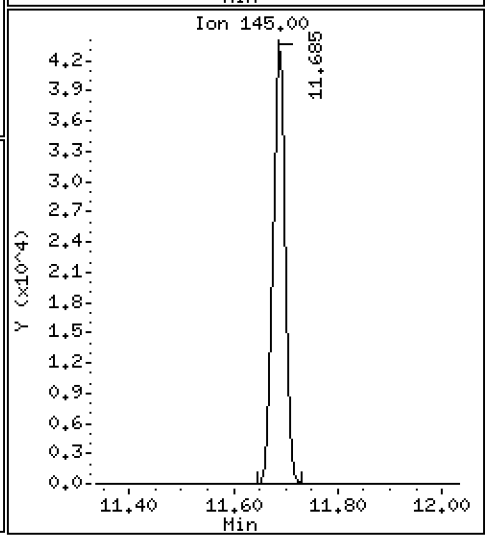












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

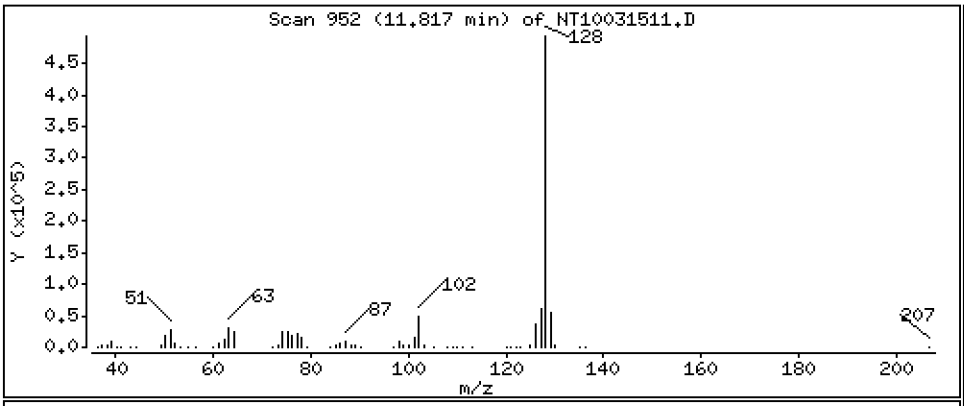
Operator: VTS

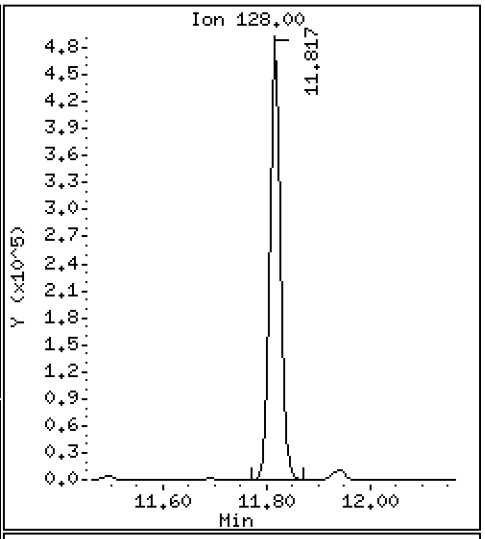
Column phase: ZB-5msi

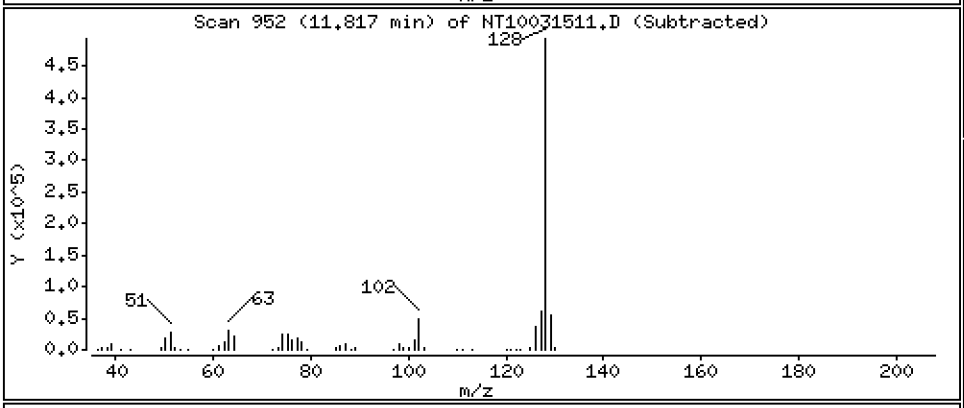
Column diameter: 0.25

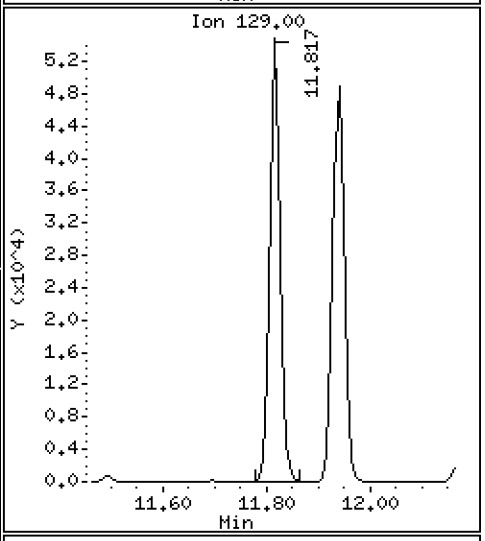
28 Naphthalene

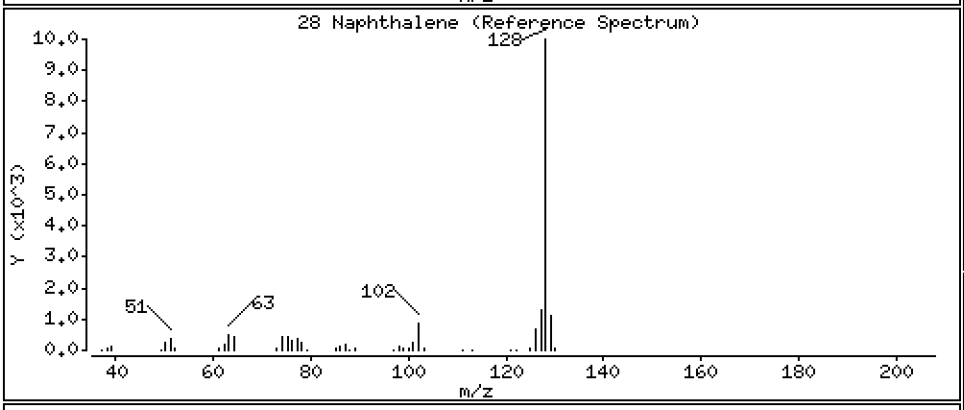
Concentration: 4.717 ug/mL

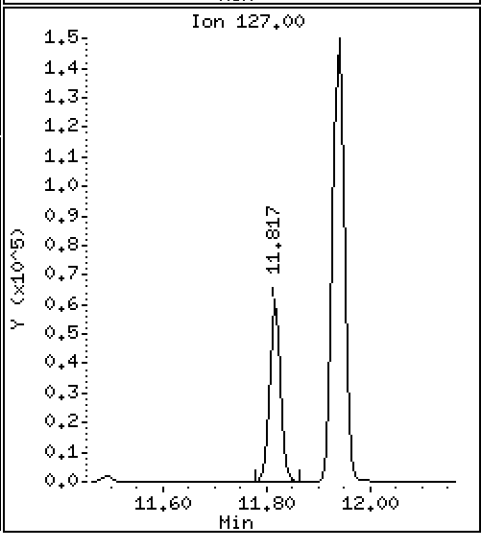


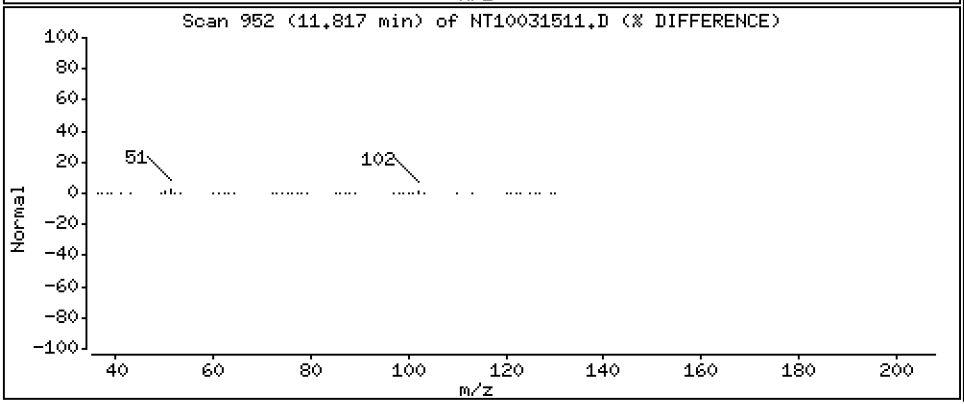












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

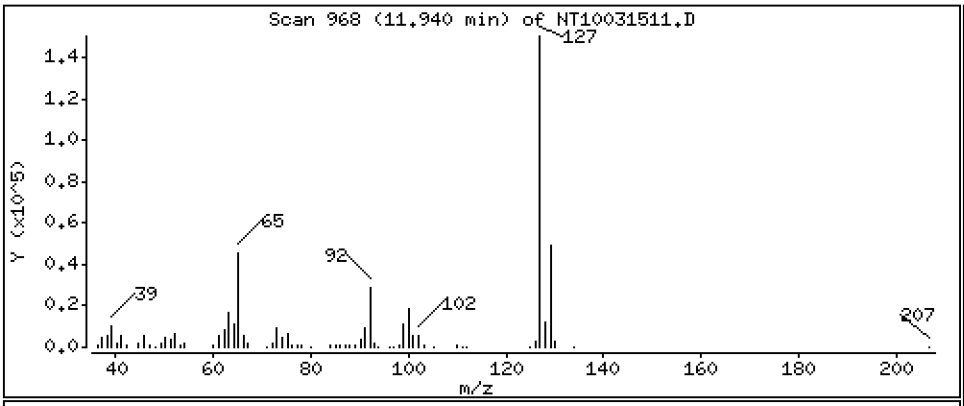
Operator: VTS

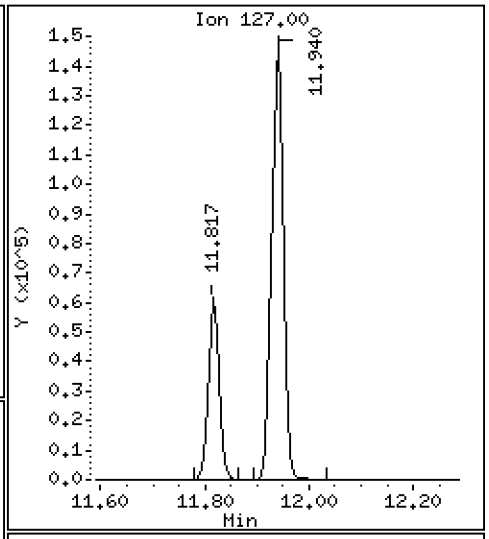
Column phase: ZB-5msi

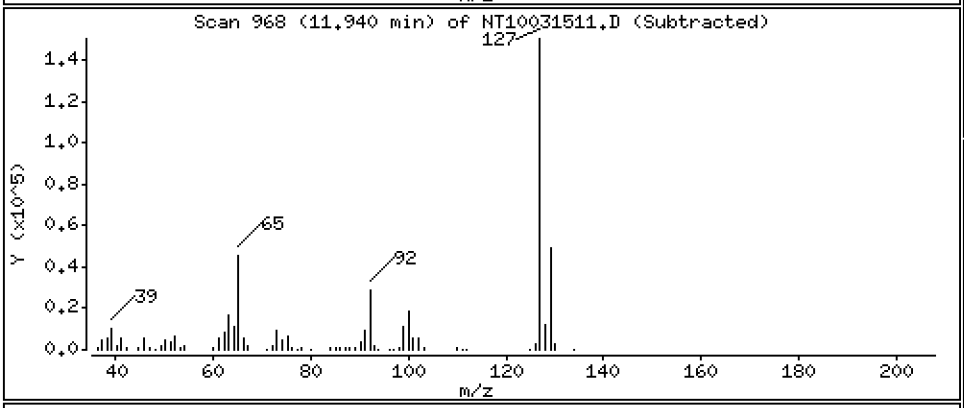
Column diameter: 0.25

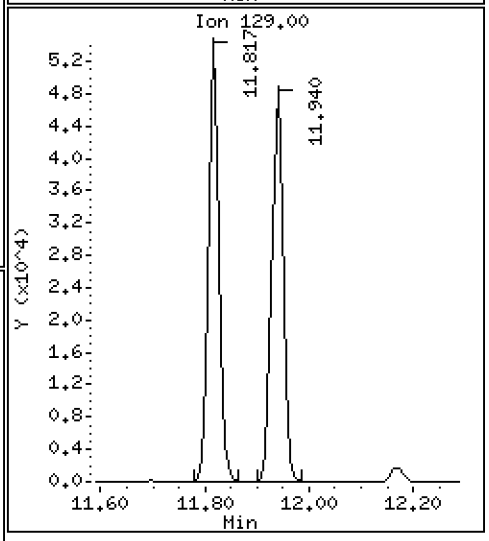
29 4-Chloroaniline

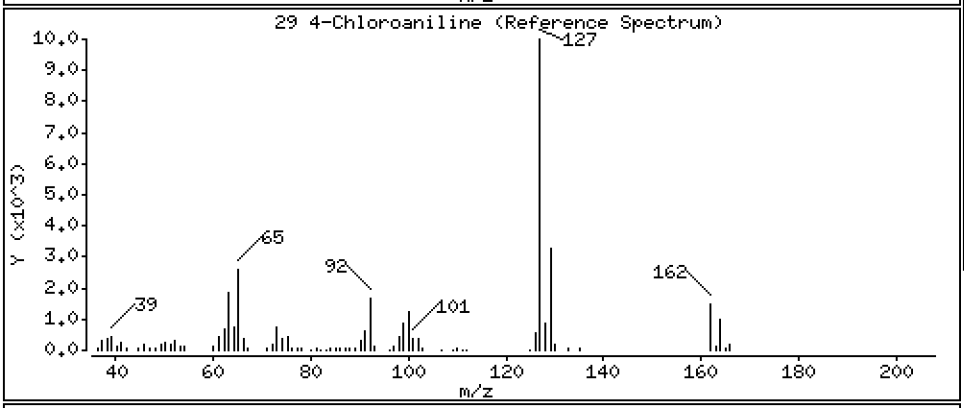
Concentration: 3.787 ug/mL

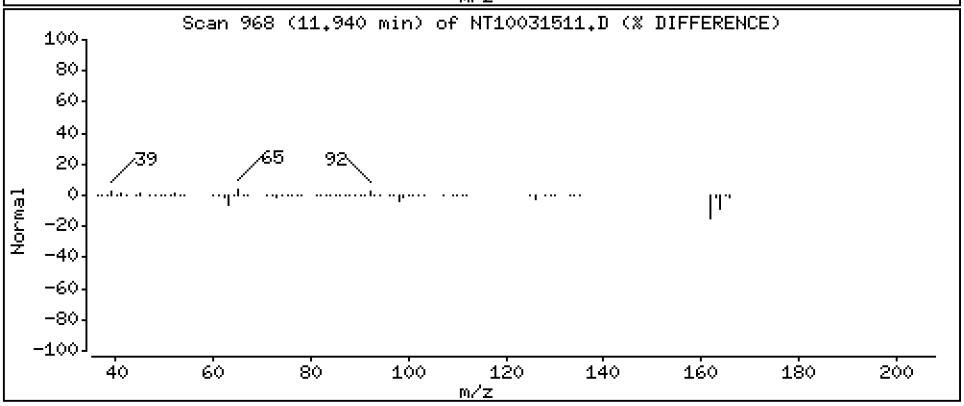












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

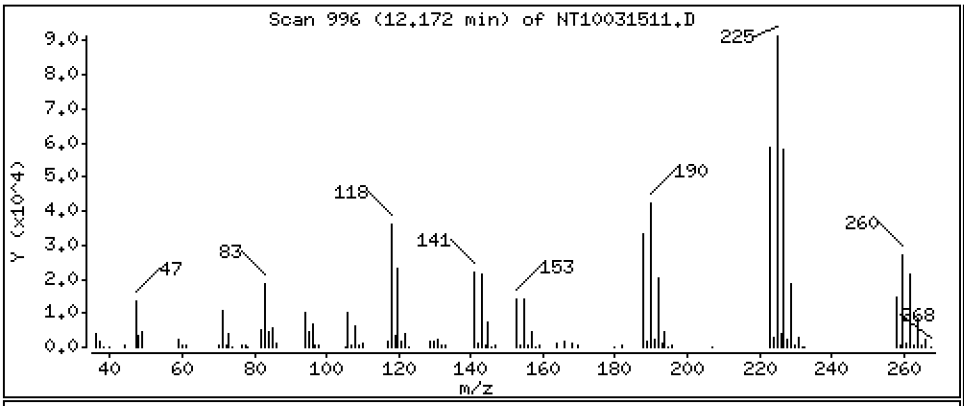
Operator: VTS

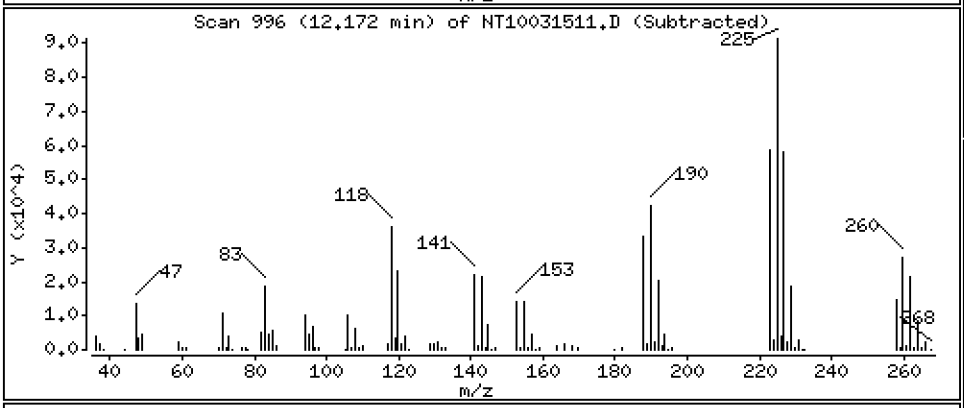
Column phase: ZB-5msi

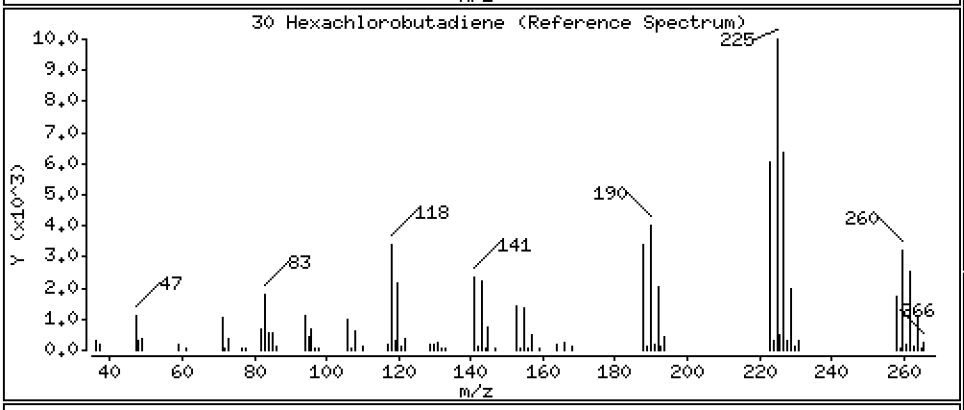
Column diameter: 0.25

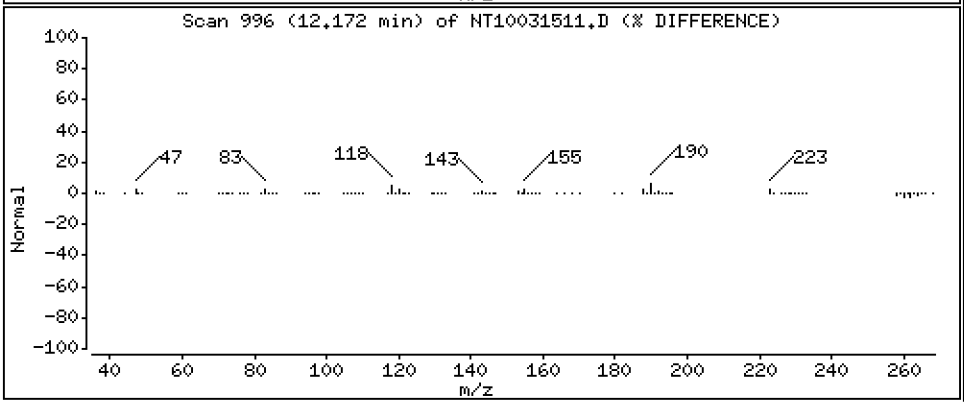
30 Hexachlorobutadiene

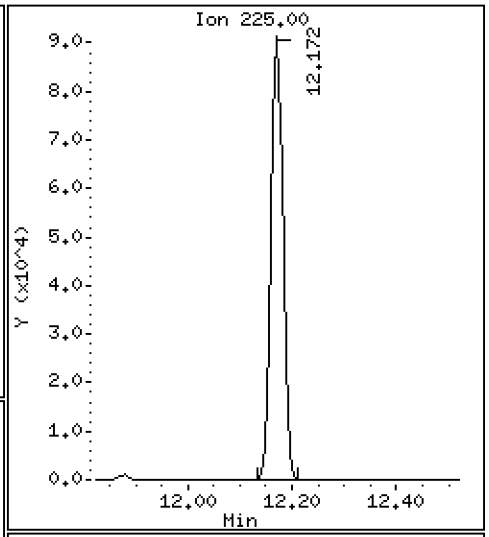
Concentration: 4.834 ug/mL

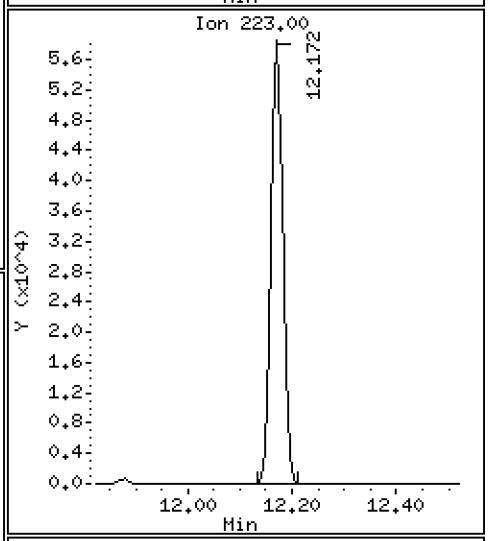


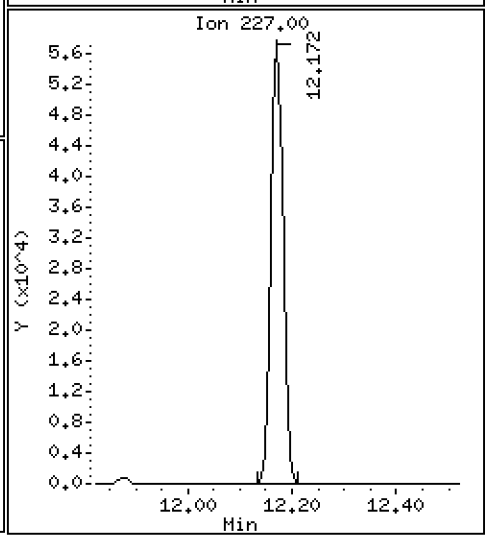












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

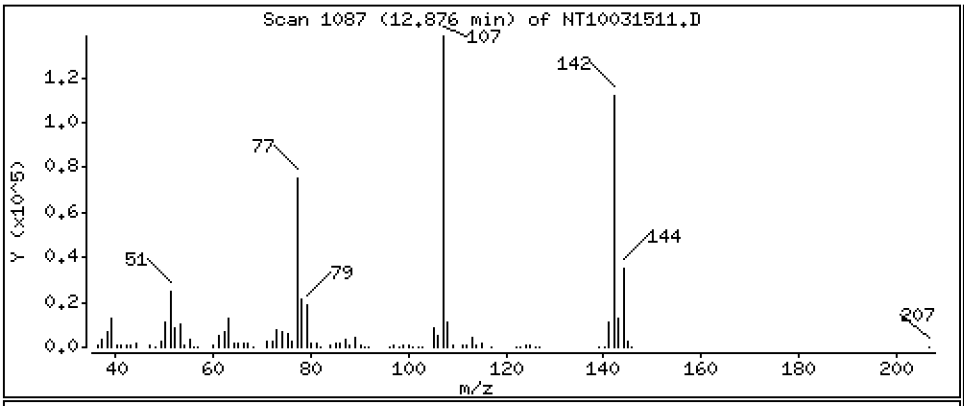
Operator: VTS

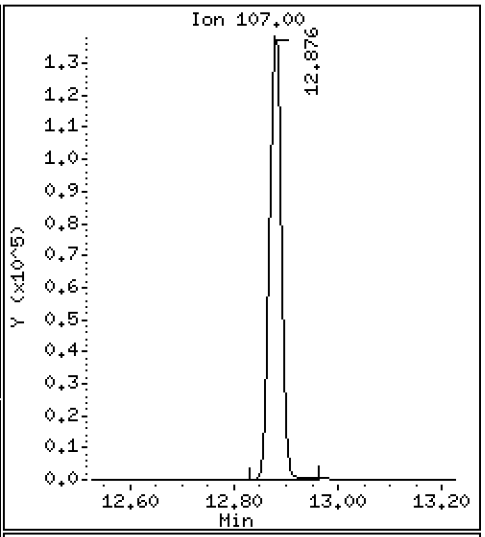
Column phase: ZB-5msi

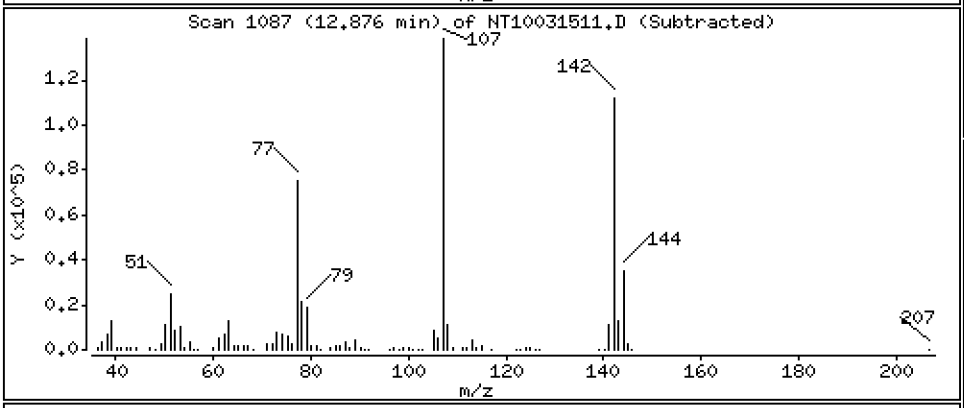
Column diameter: 0.25

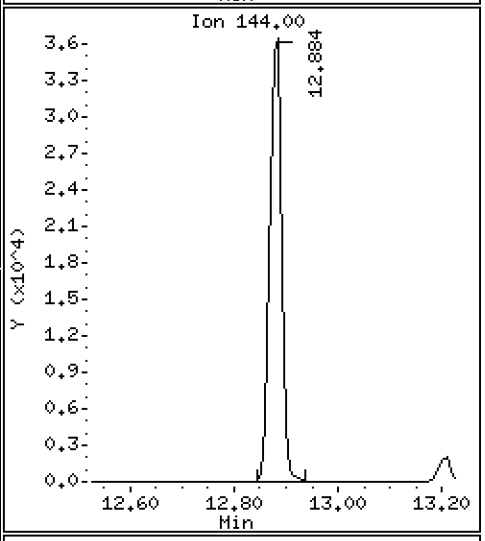
31 4-Chloro-3-methylphenol

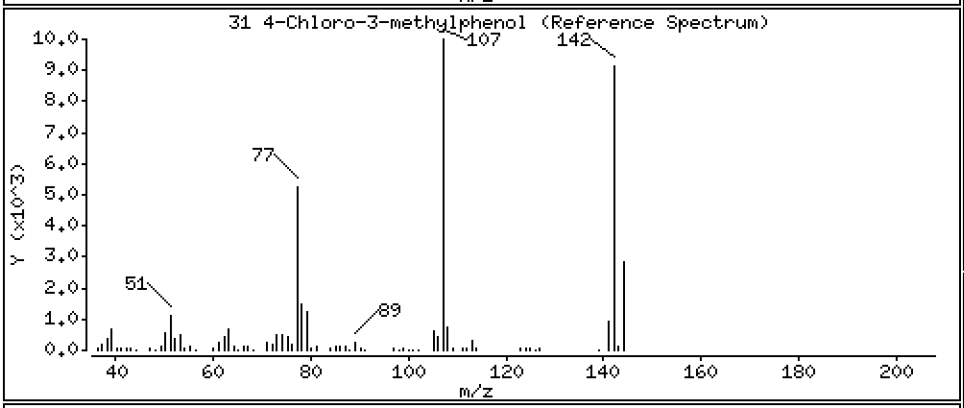
Concentration: 4.640 ug/mL

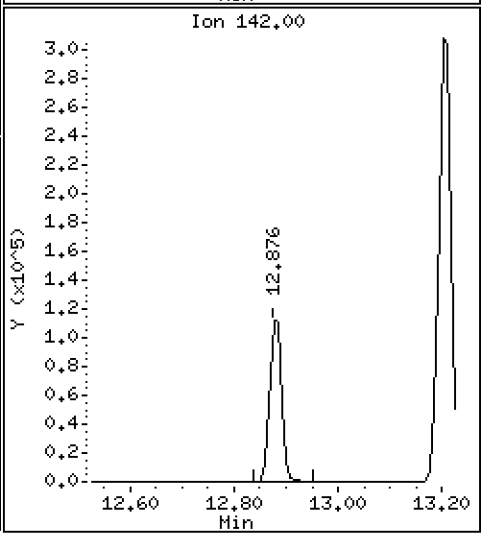


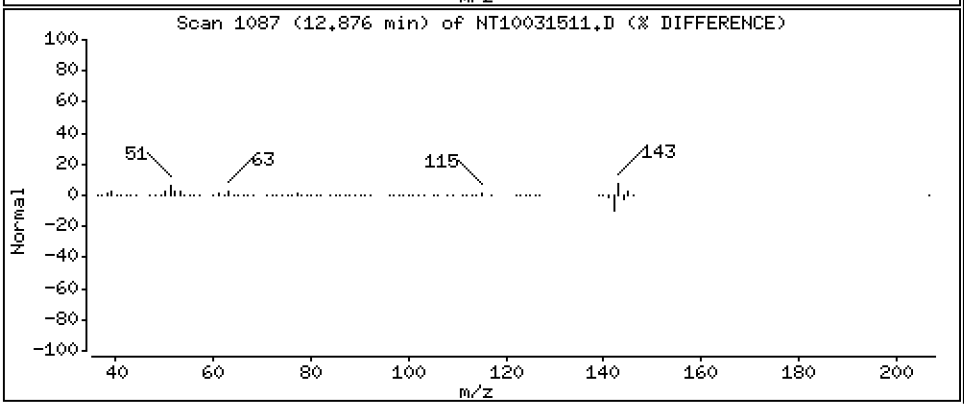












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

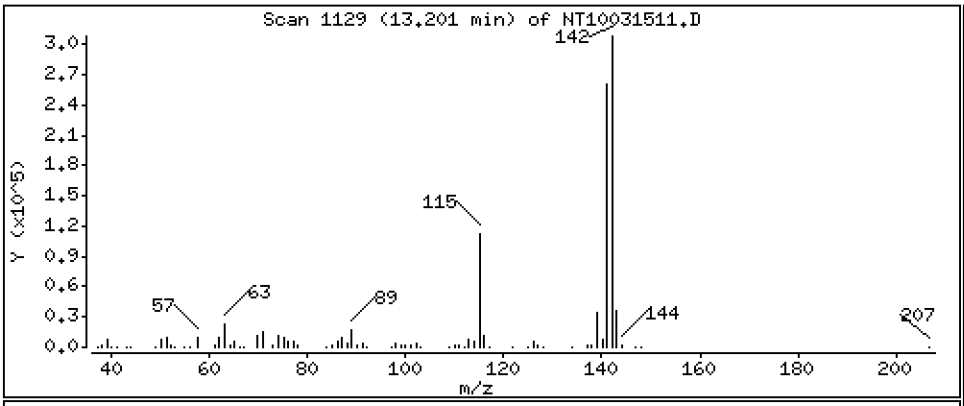
Operator: VTS

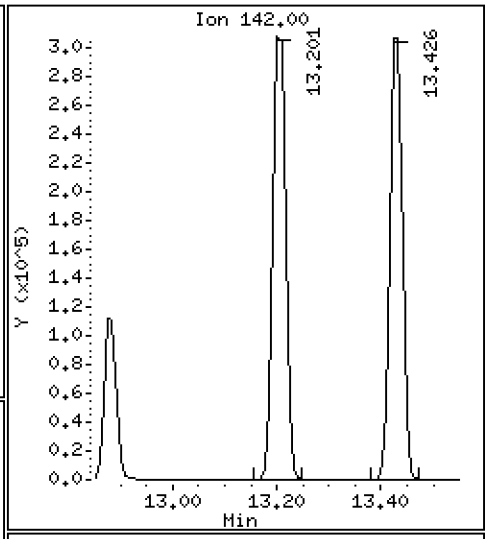
Column phase: ZB-5msi

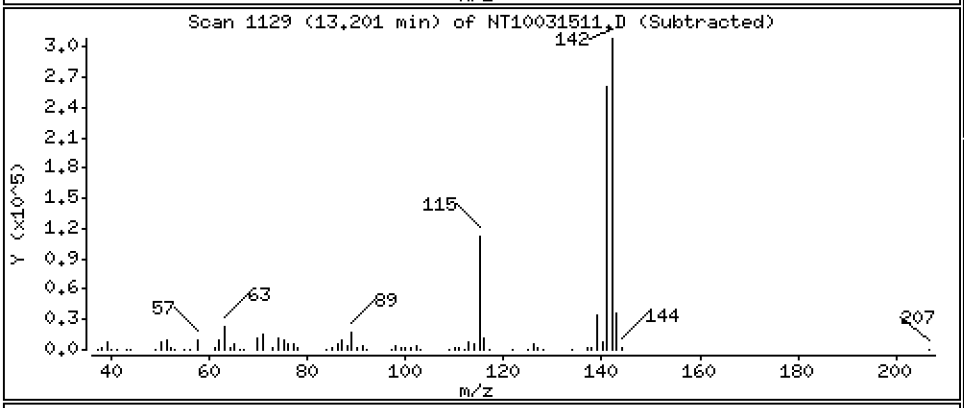
Column diameter: 0.25

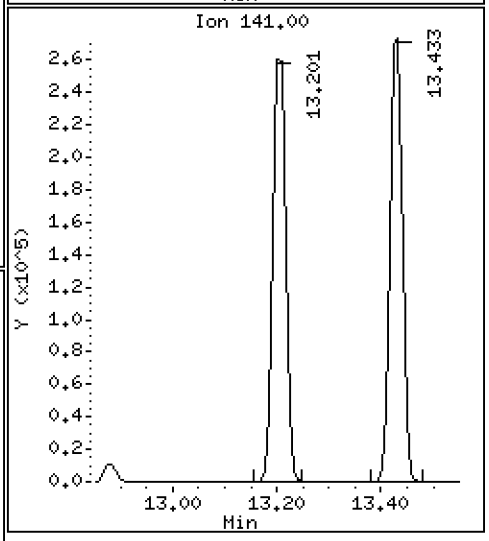
32 2-Methylnaphthalene

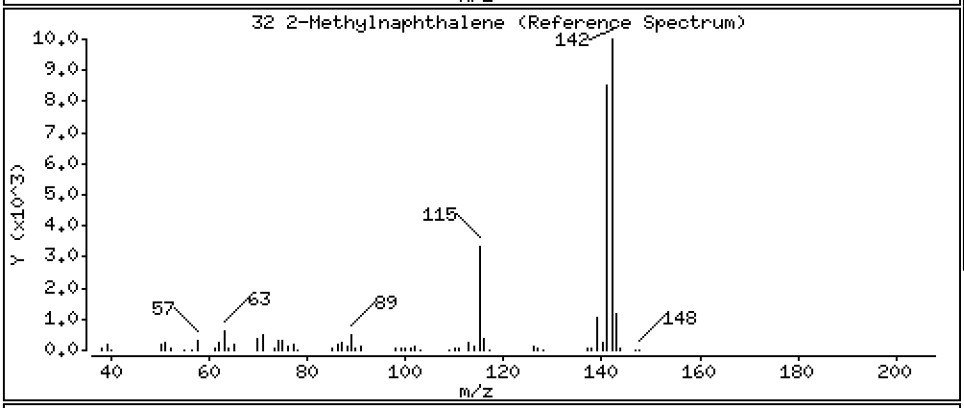
Concentration: 4.596 ug/mL

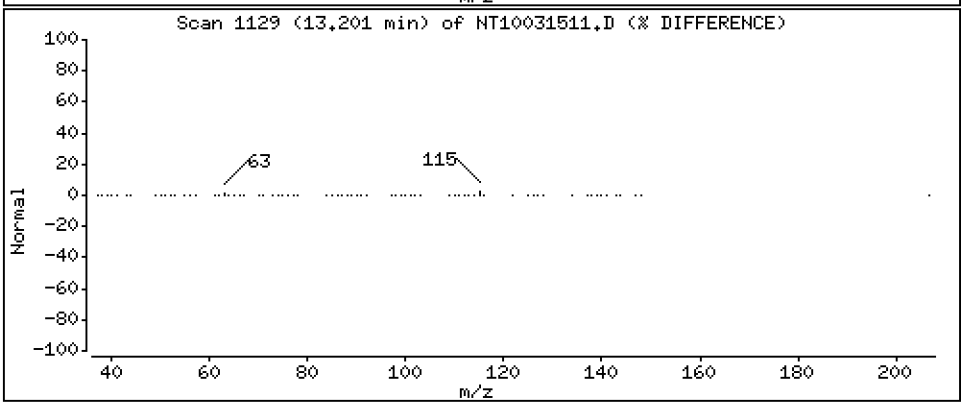












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

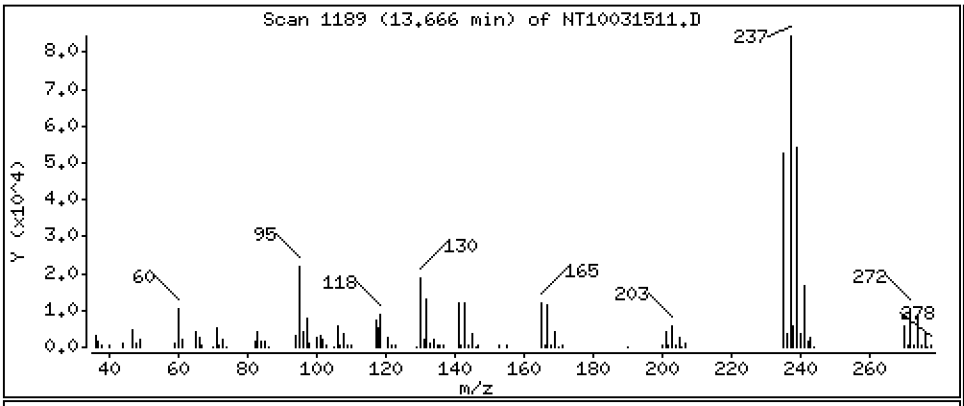
Operator: VTS

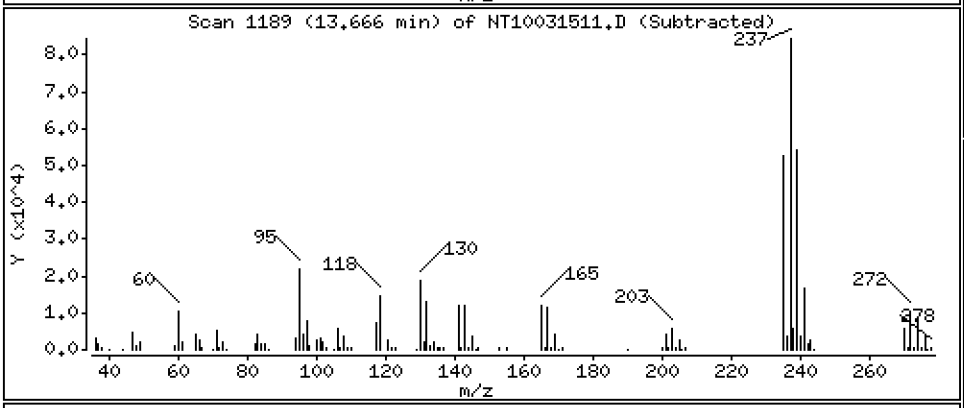
Column phase: ZB-5msi

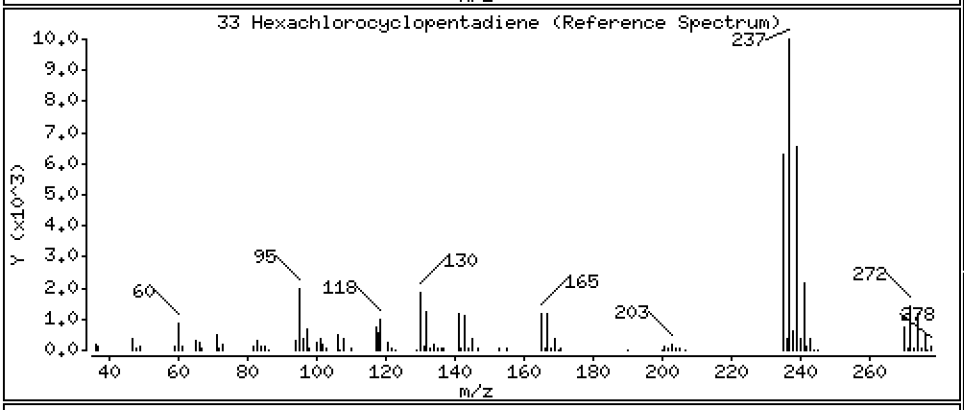
Column diameter: 0.25

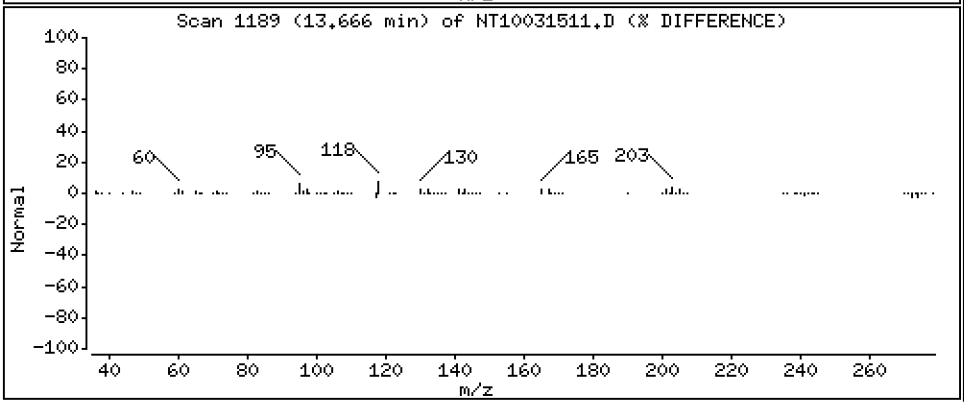
33 Hexachlorocyclopentadiene

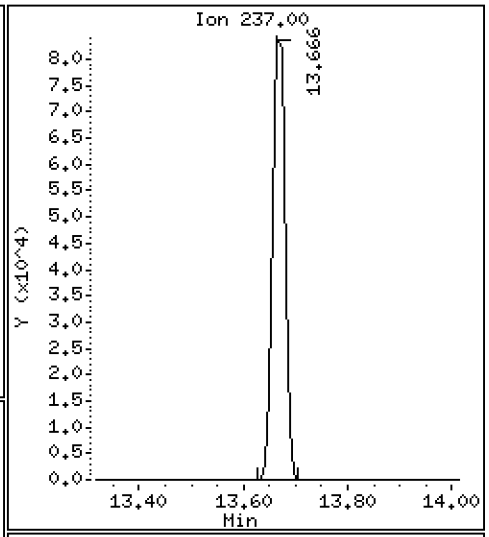
Concentration: 4.729 ug/mL

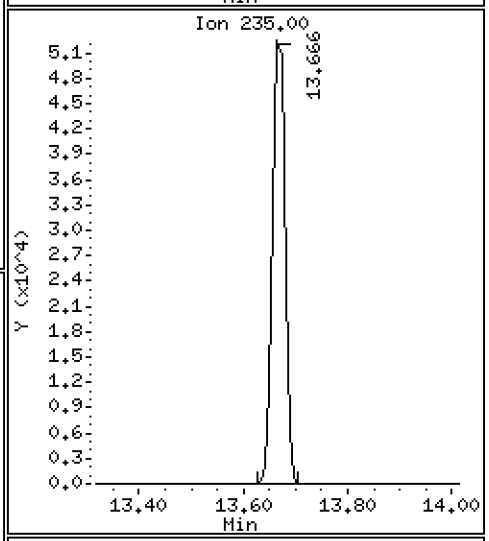


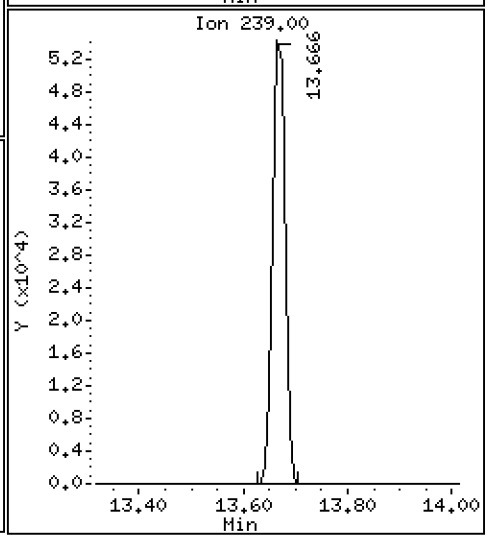












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

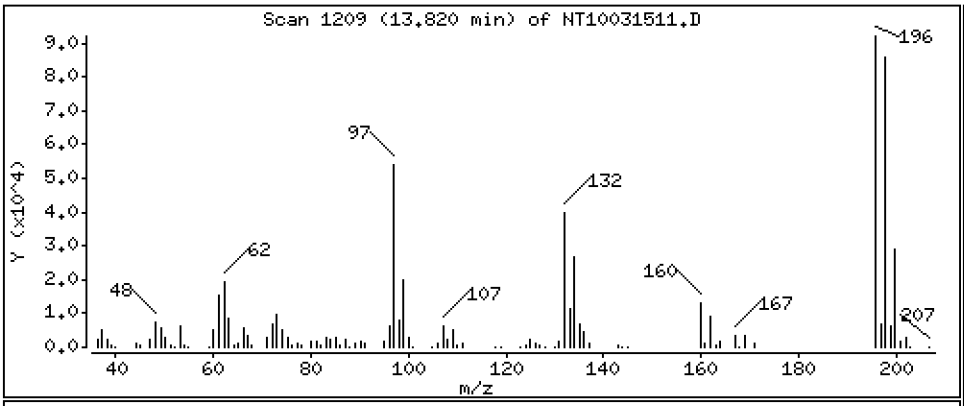
Operator: VTS

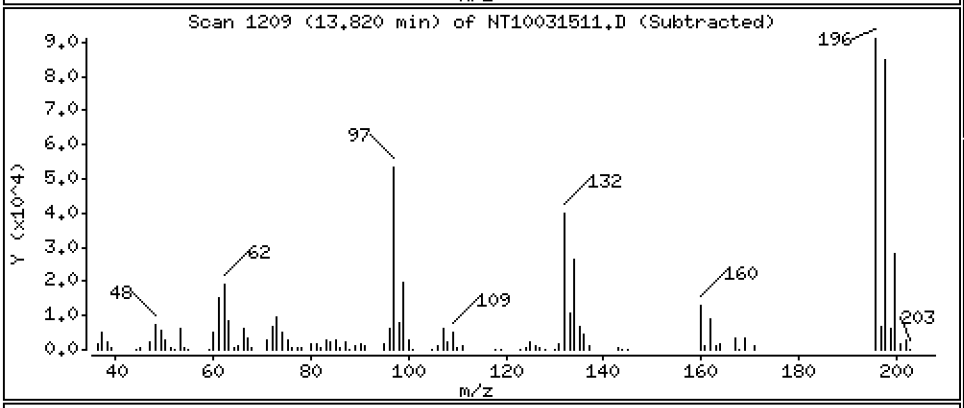
Column phase: ZB-5msi

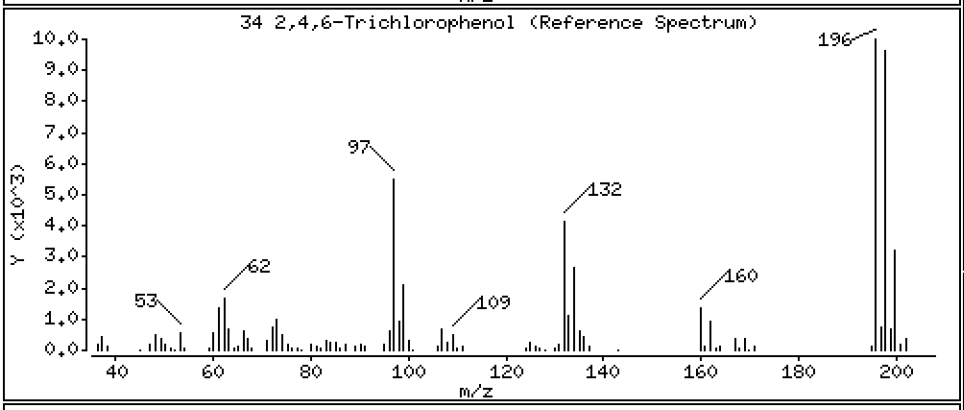
Column diameter: 0.25

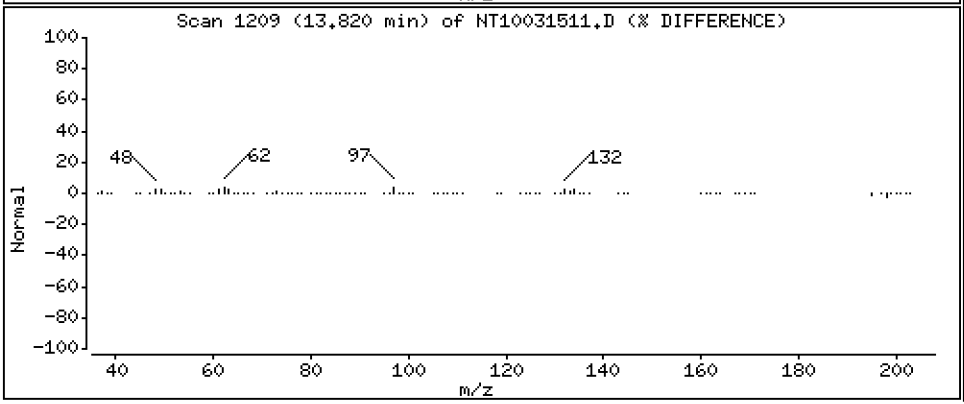
34 2,4,6-Trichlorophenol

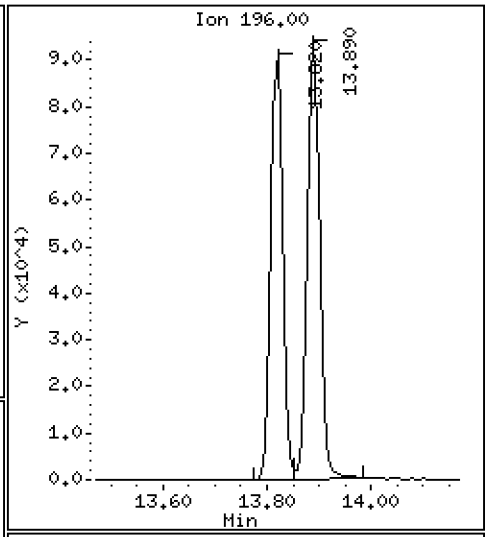
Concentration: 4.596 ug/mL

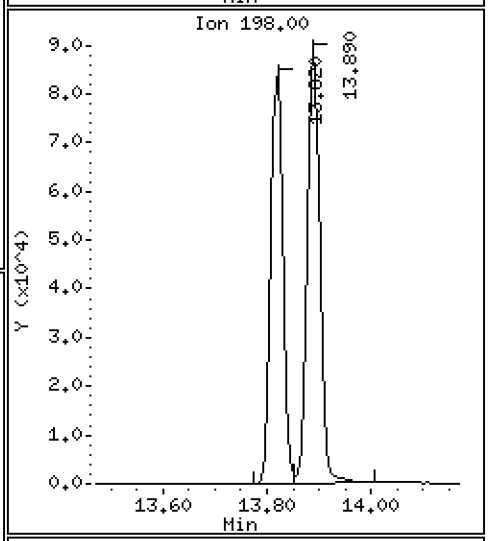


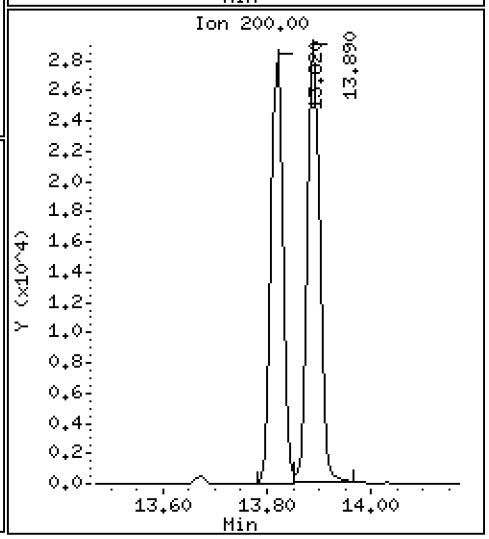












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

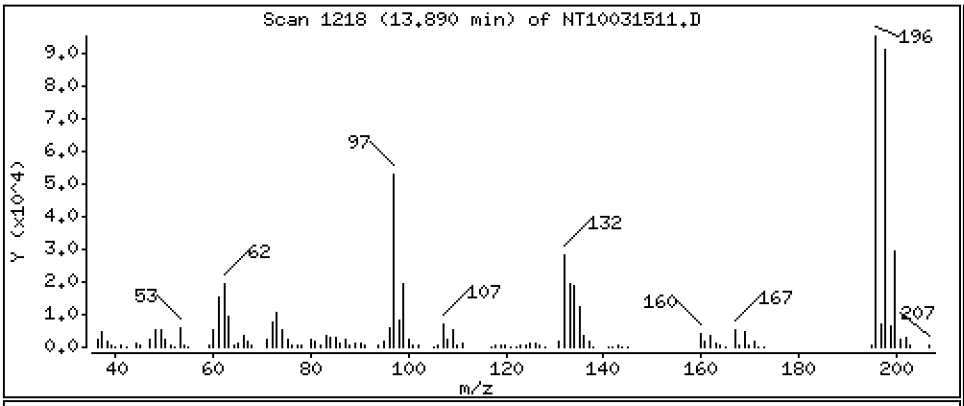
Operator: VTS

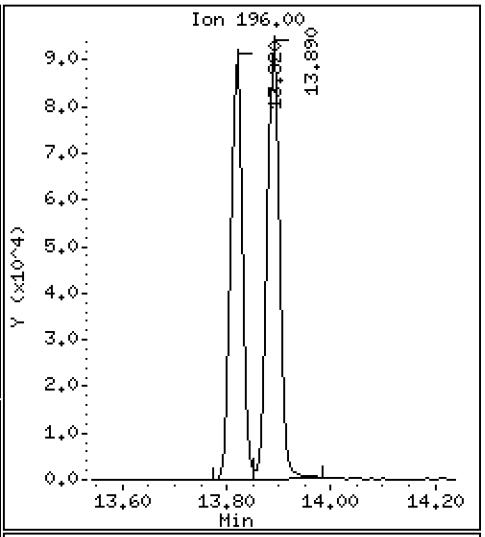
Column phase: ZB-5msi

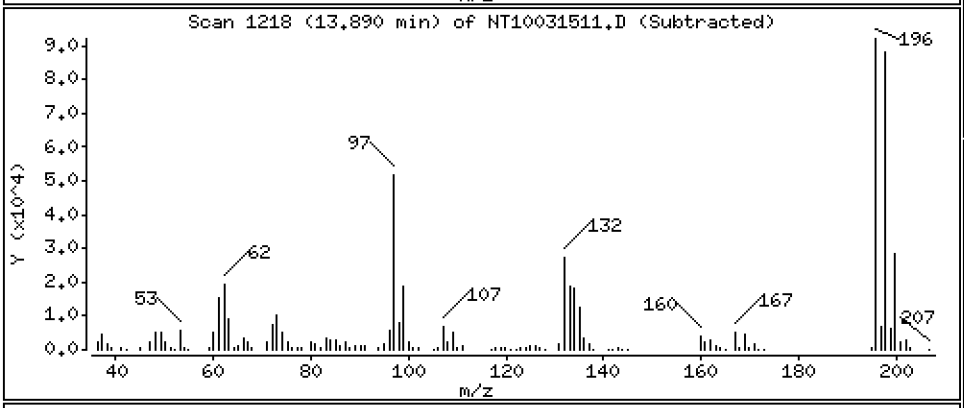
Column diameter: 0.25

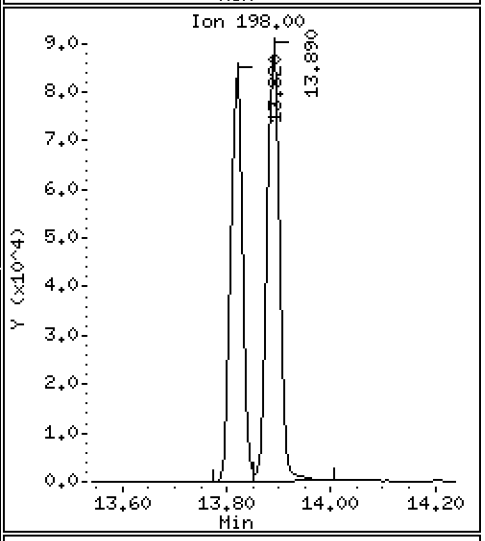
35 2,4,5-Trichlorophenol

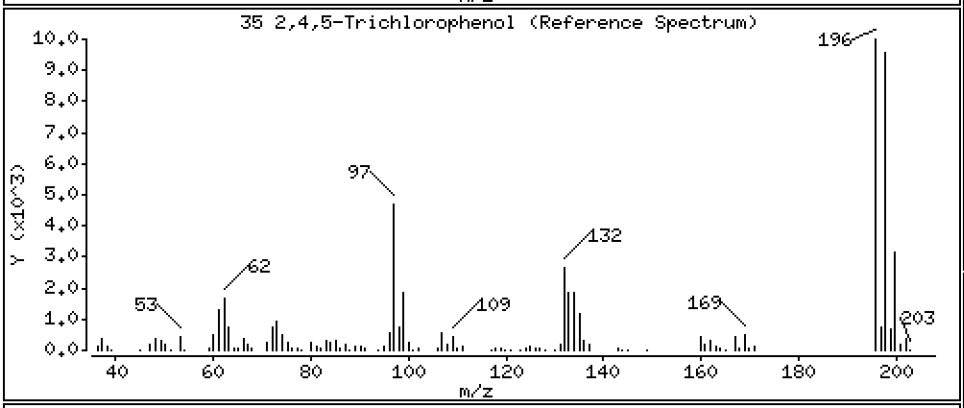
Concentration: 4.409 ug/mL

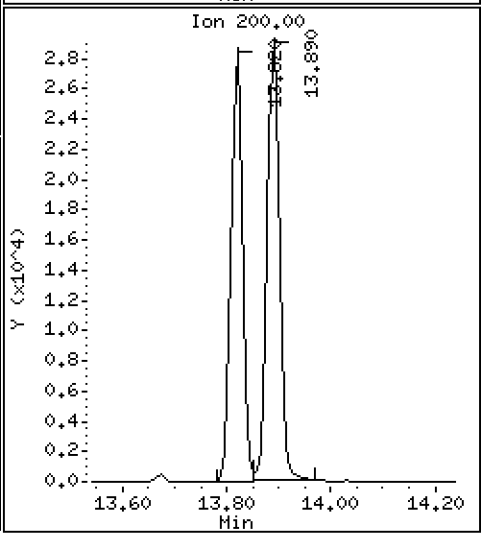


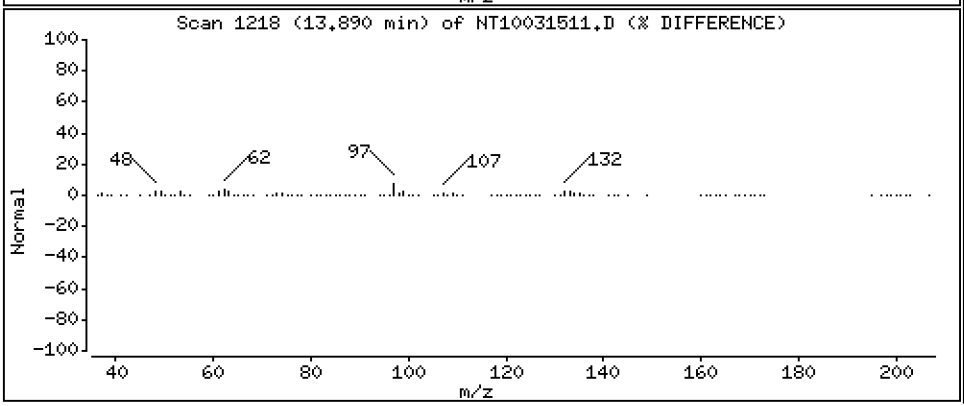












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

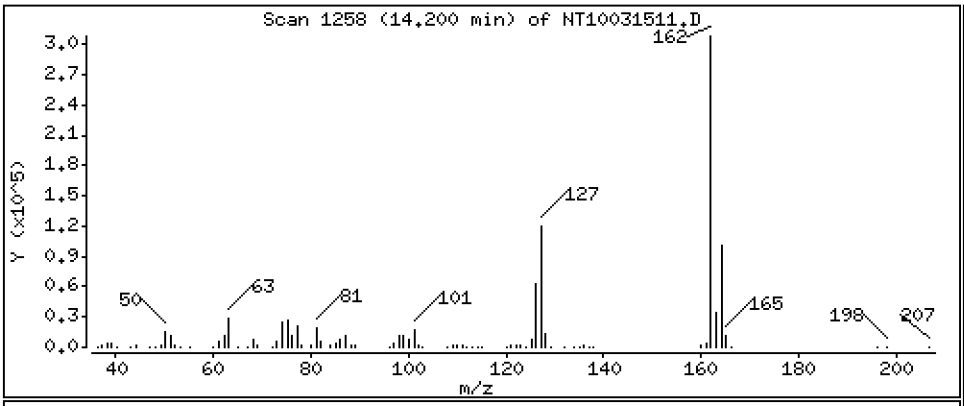
Operator: VTS

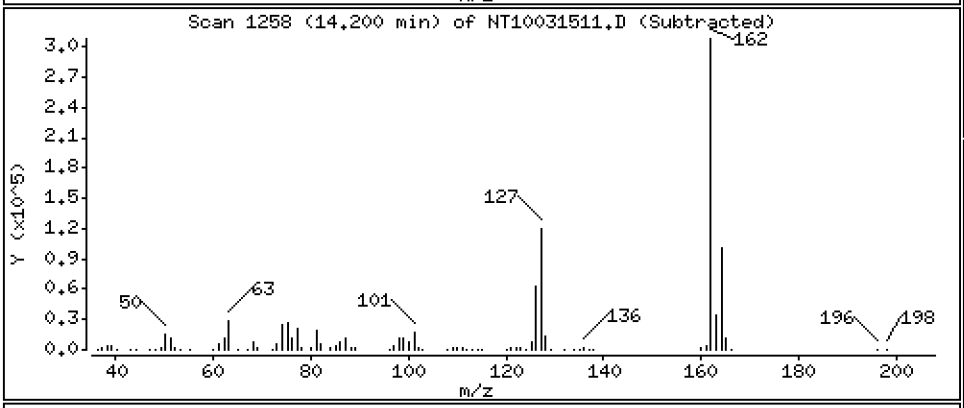
Column phase: ZB-5msi

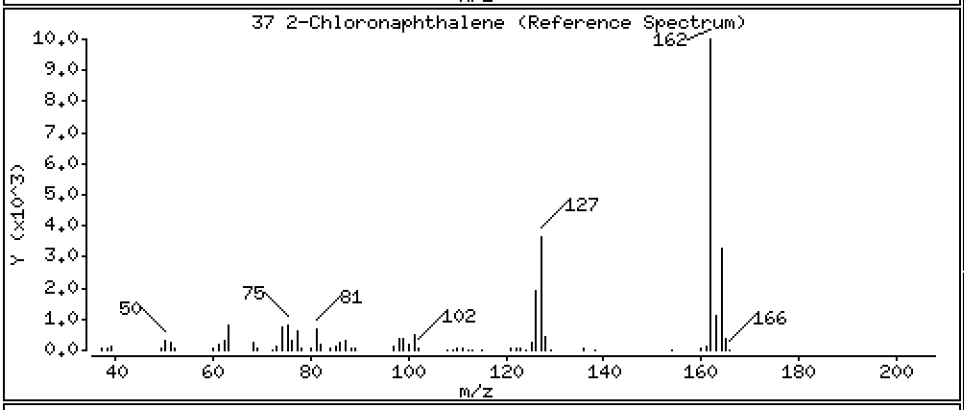
Column diameter: 0.25

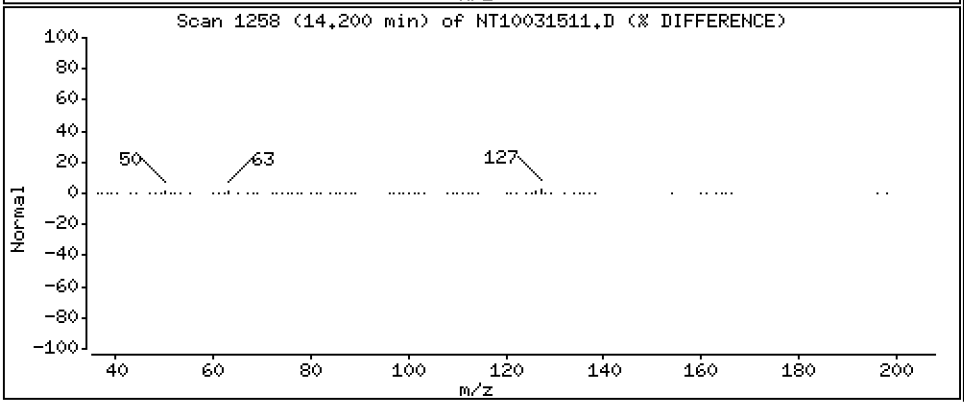
37 2-Chloronaphthalene

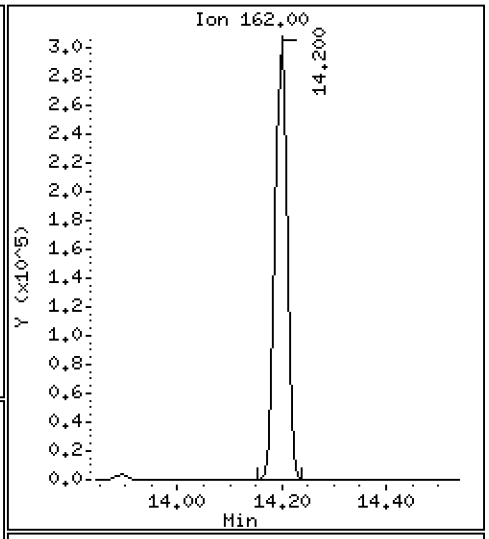
Concentration: 4.796 ug/mL

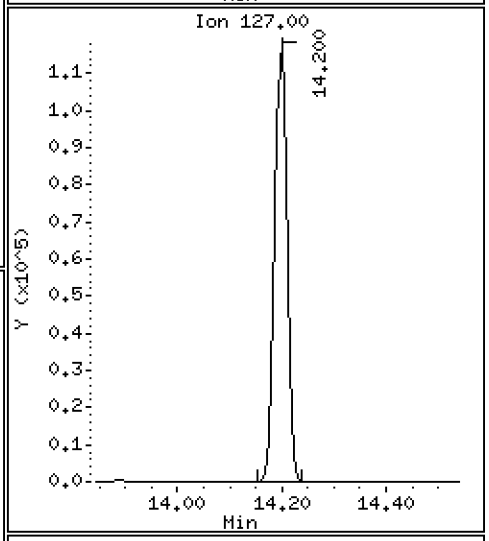


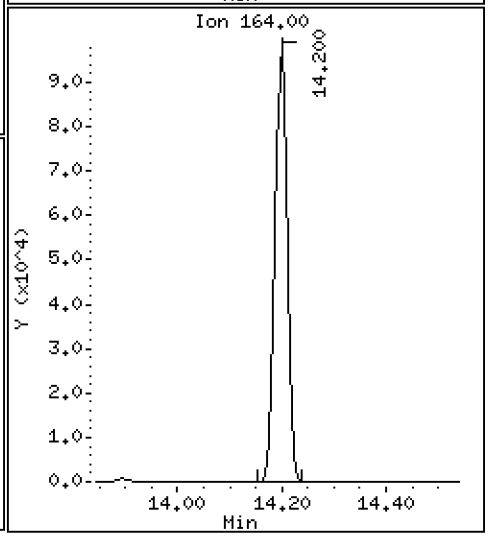












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

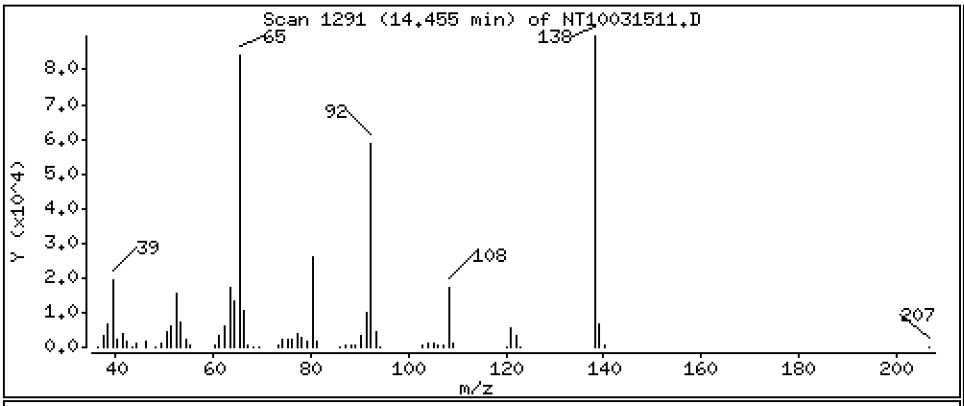
Operator: VTS

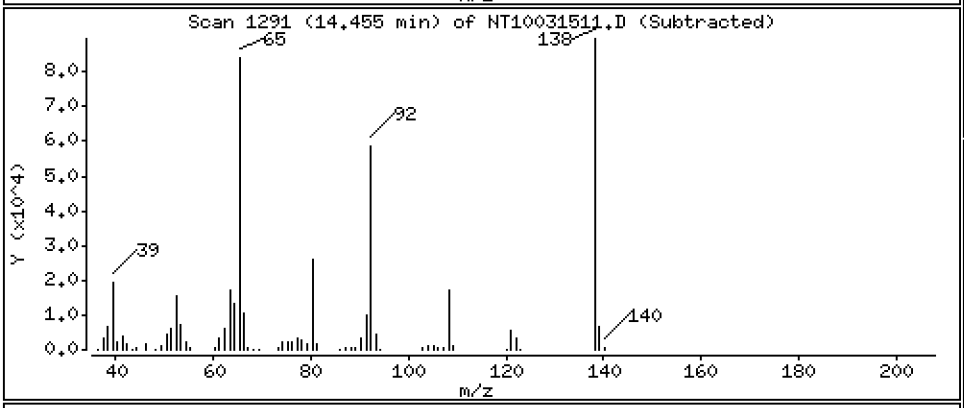
Column phase: ZB-5msi

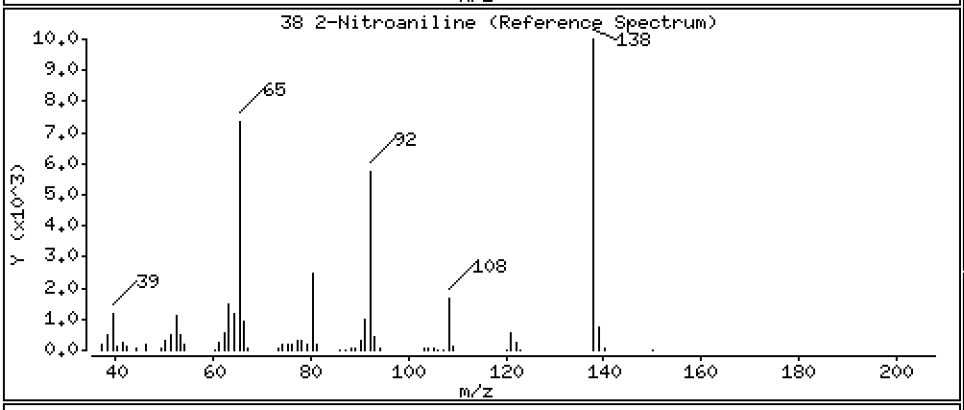
Column diameter: 0.25

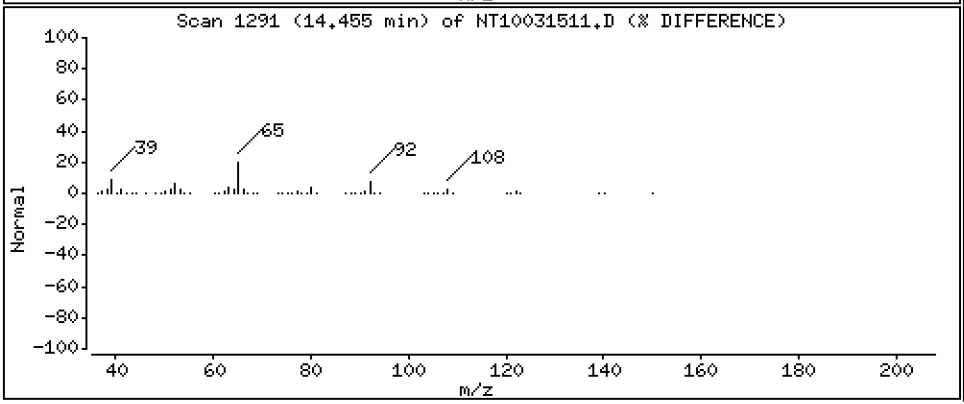
38 2-Nitroaniline

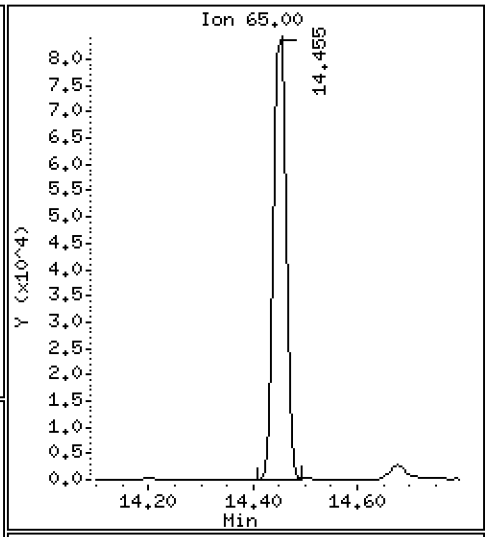
Concentration: 4.911 ug/mL

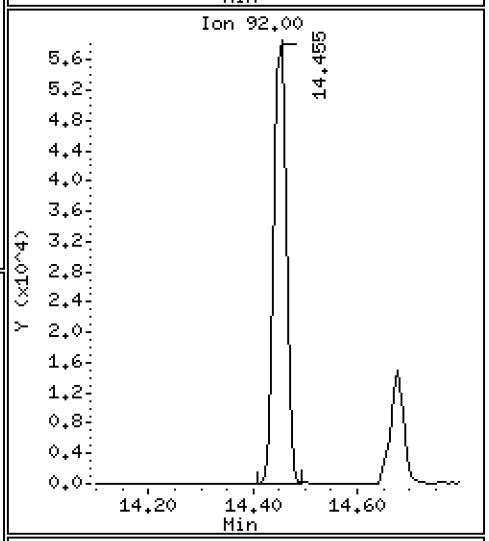


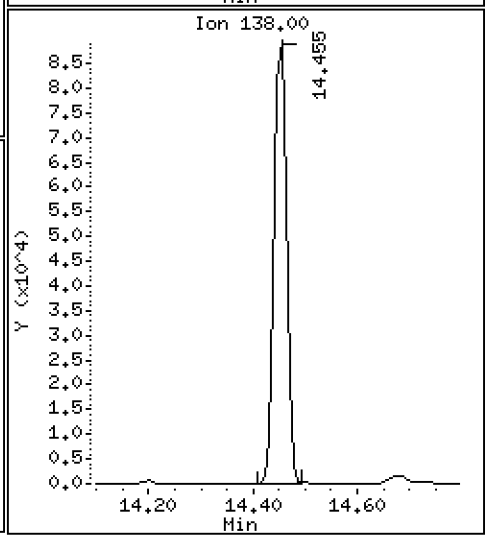












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

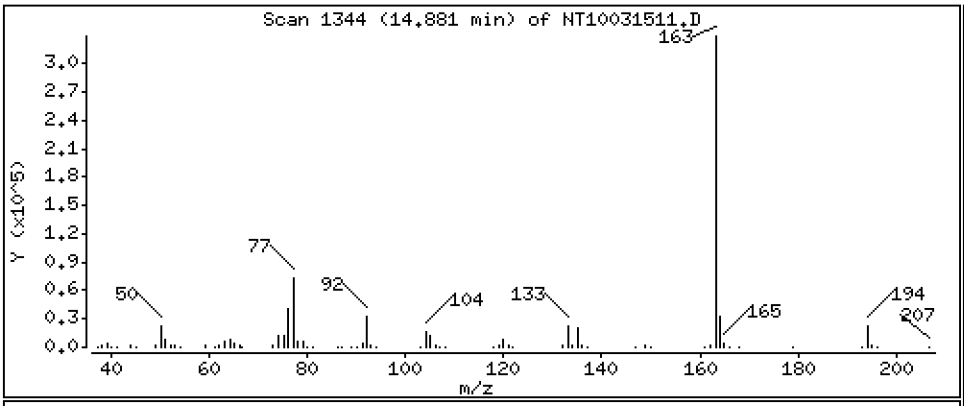
Operator: VTS

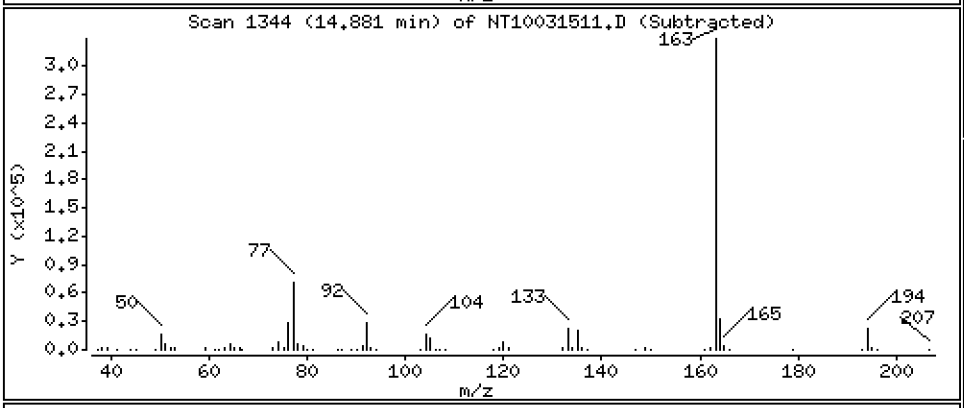
Column phase: ZB-5msi

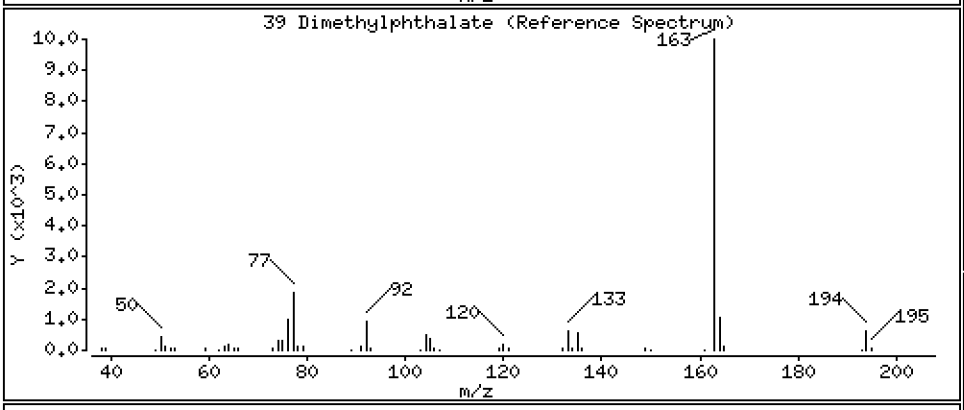
Column diameter: 0.25

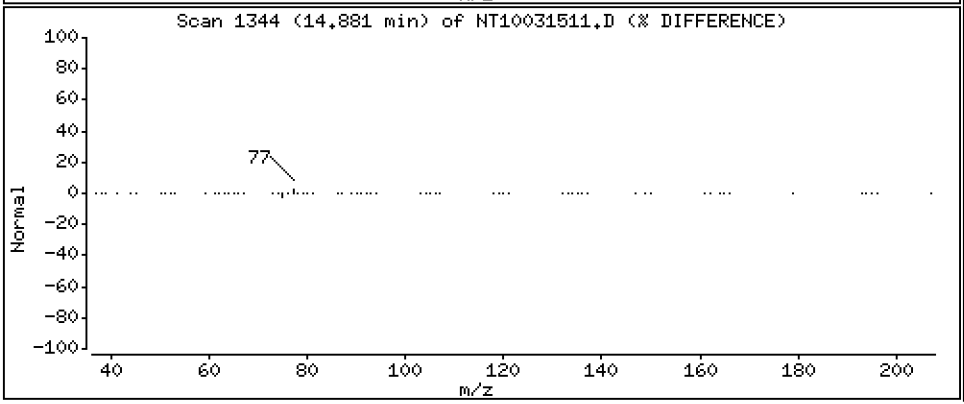
39 Dimethylphthalate

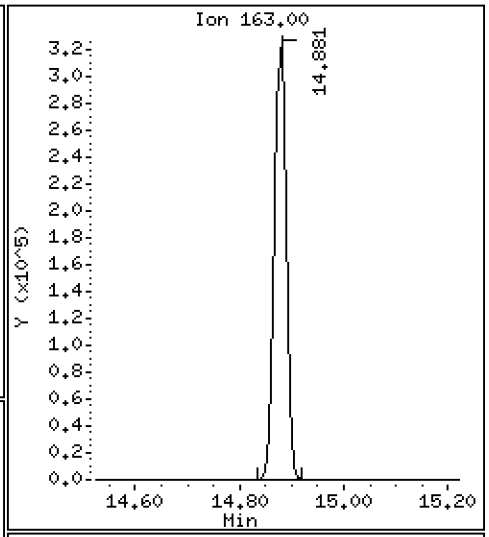
Concentration: 4.937 ug/mL

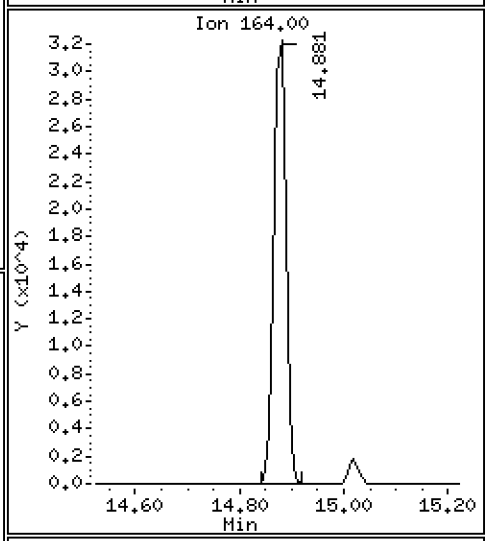


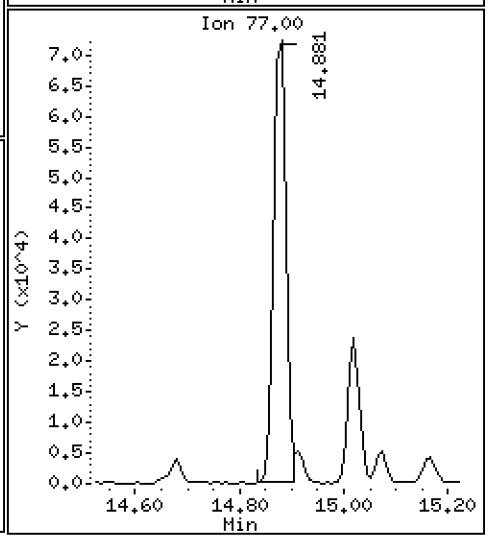












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

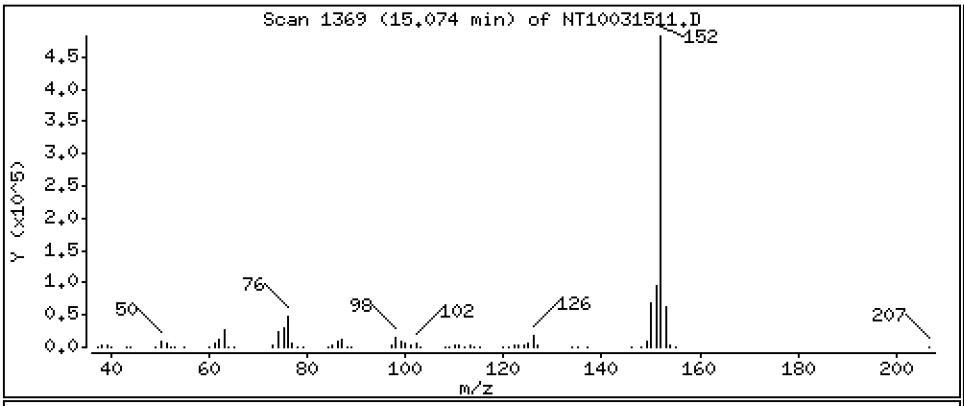
Operator: VTS

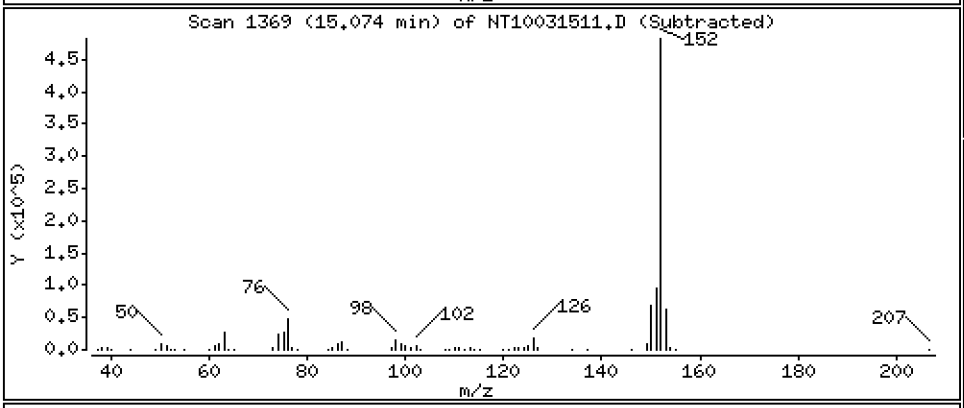
Column phase: ZB-5msi

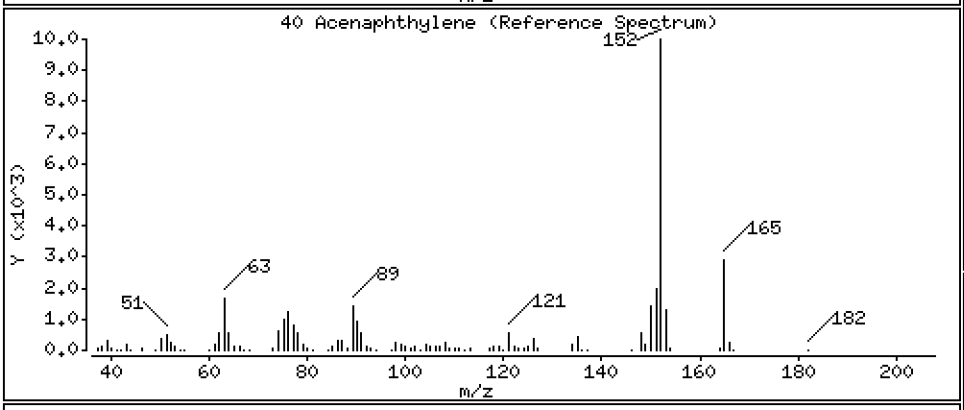
Column diameter: 0.25

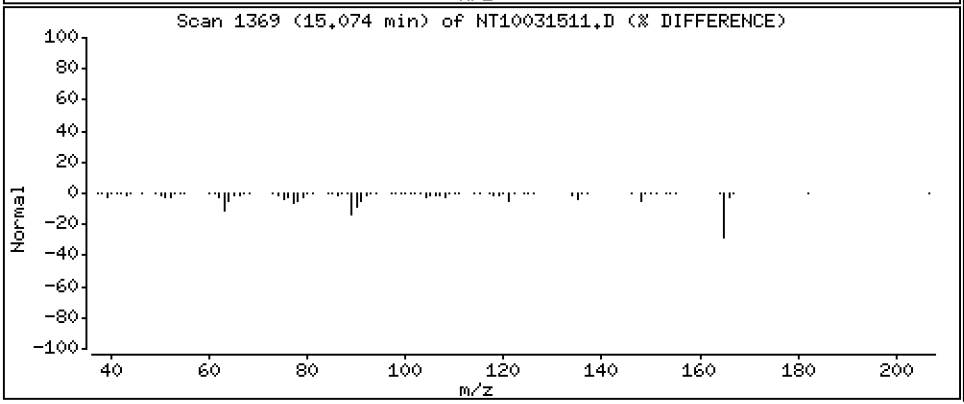
40 Acenaphthylene

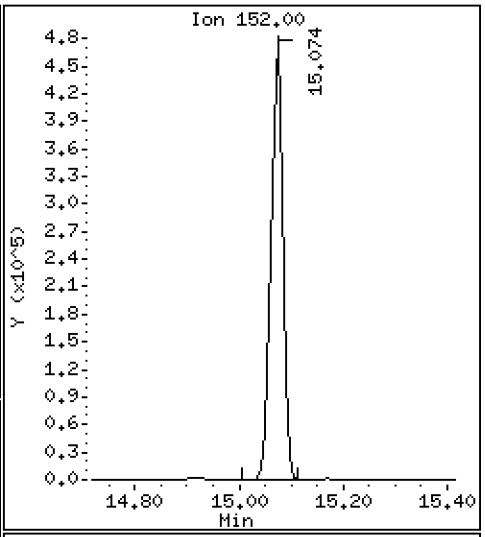
Concentration: 4.805 ug/mL

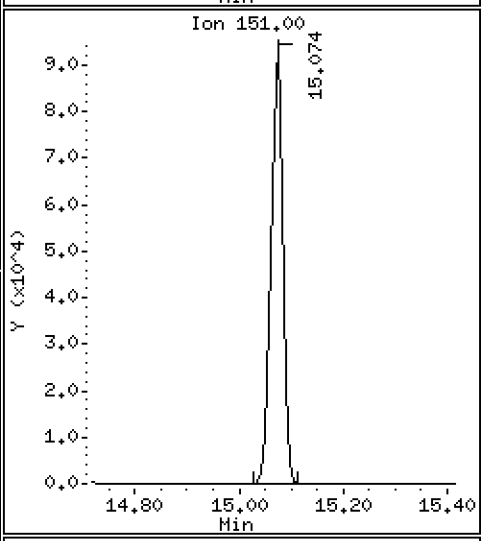


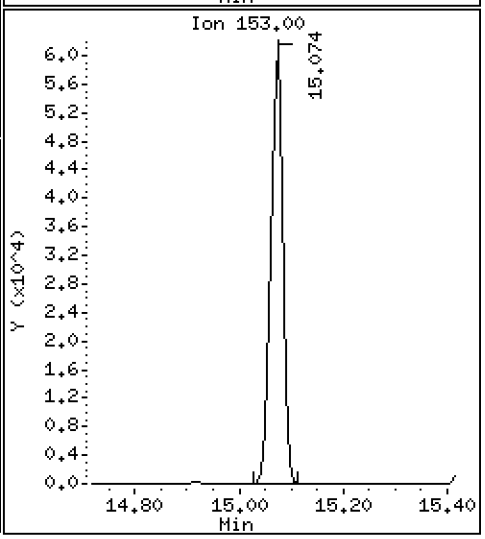












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

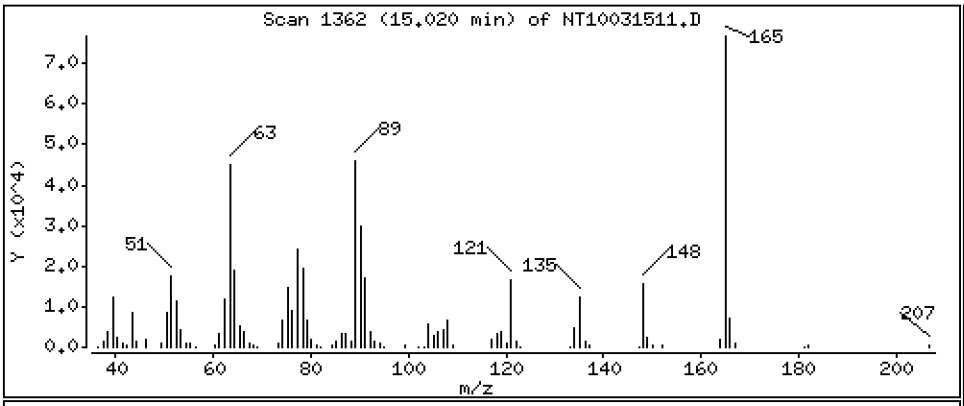
Operator: VTS

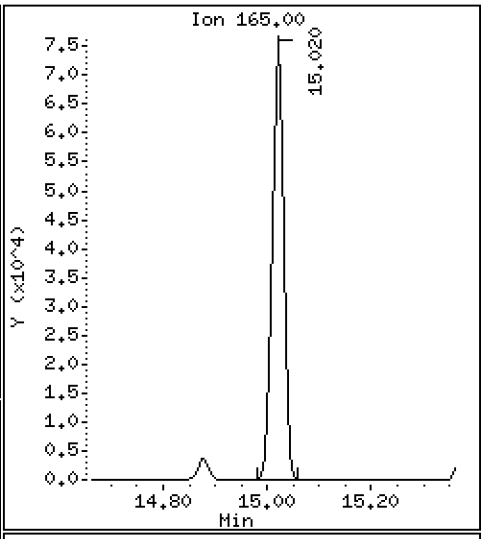
Column phase: ZB-5msi

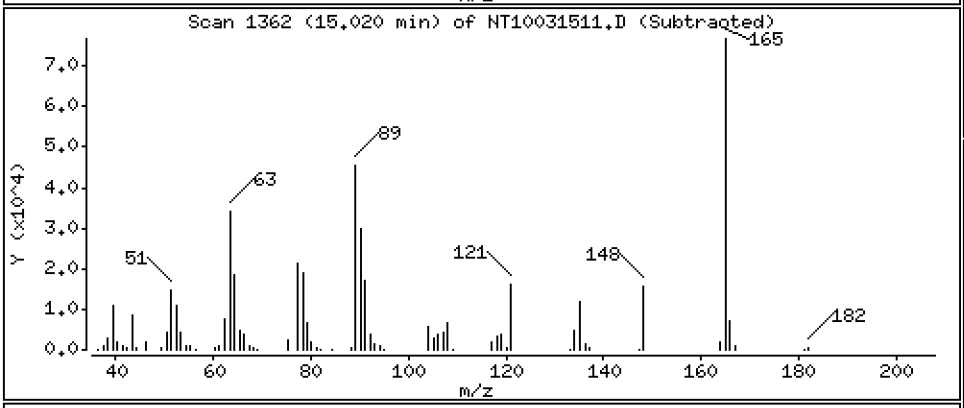
Column diameter: 0.25

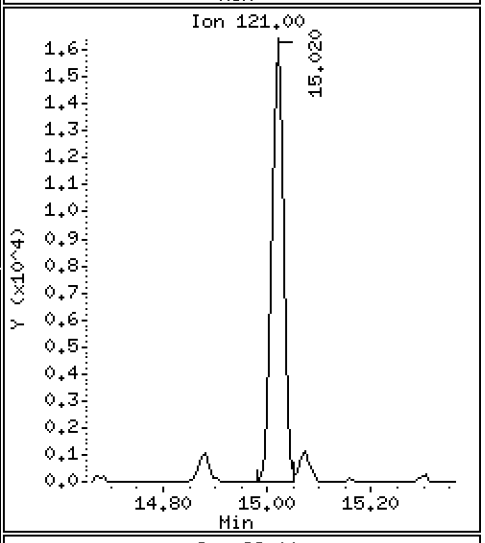
41 2,6-Dinitrotoluene

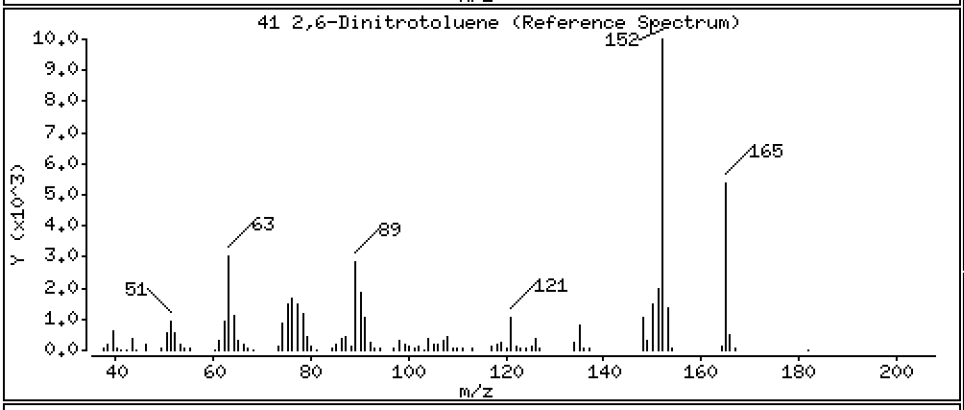
Concentration: 5.298 ug/mL

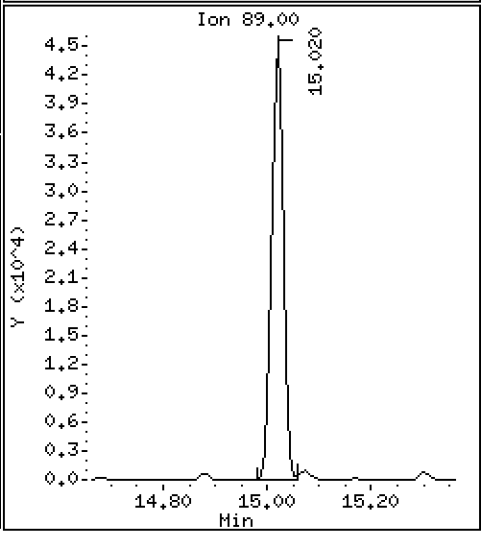


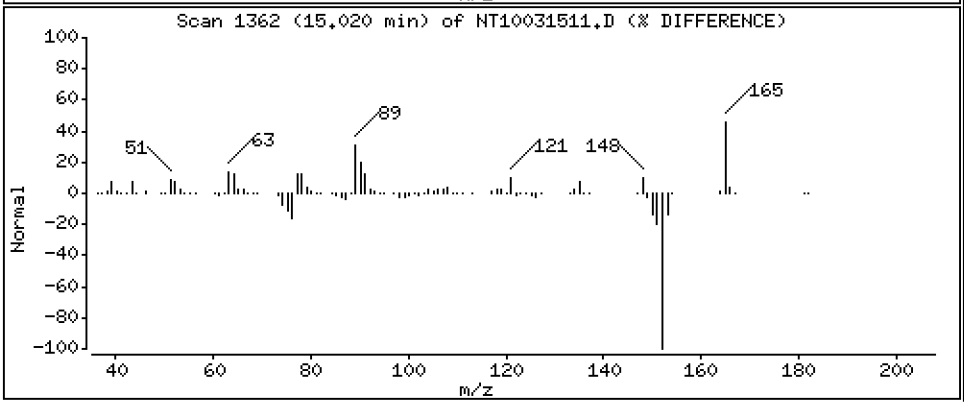












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

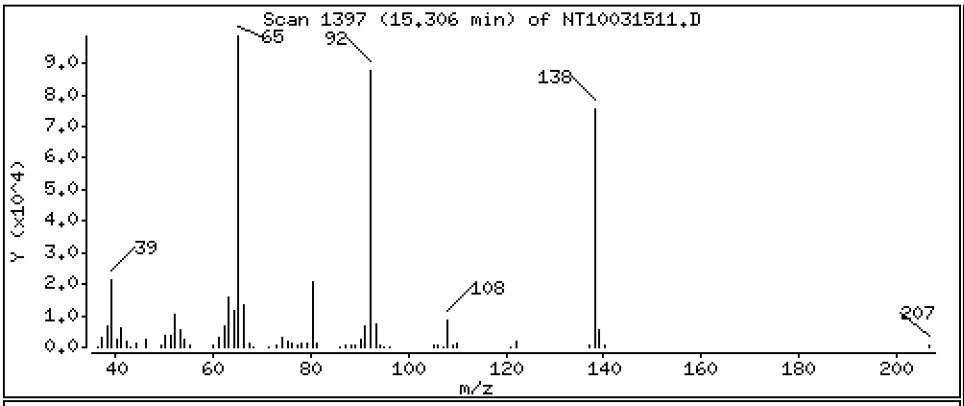
Operator: VTS

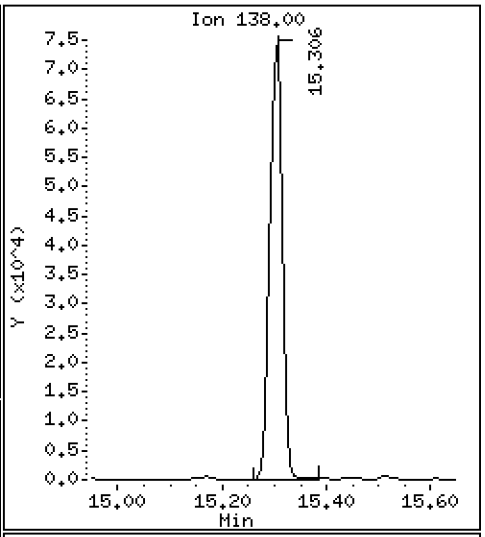
Column phase: ZB-5msi

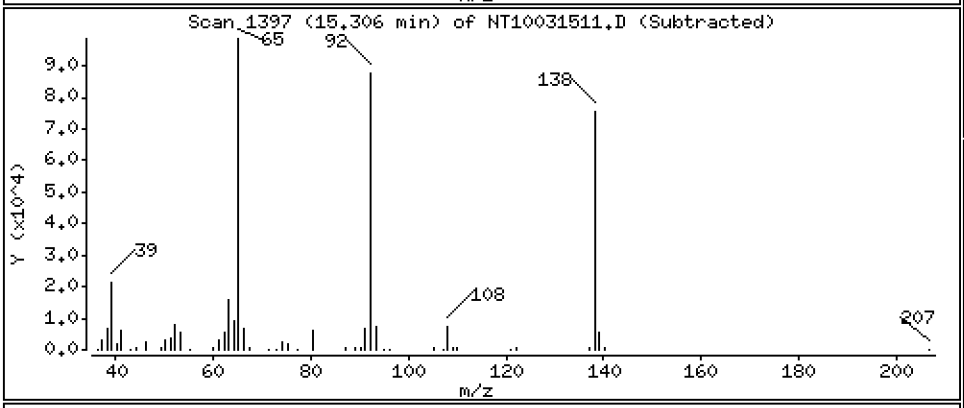
Column diameter: 0.25

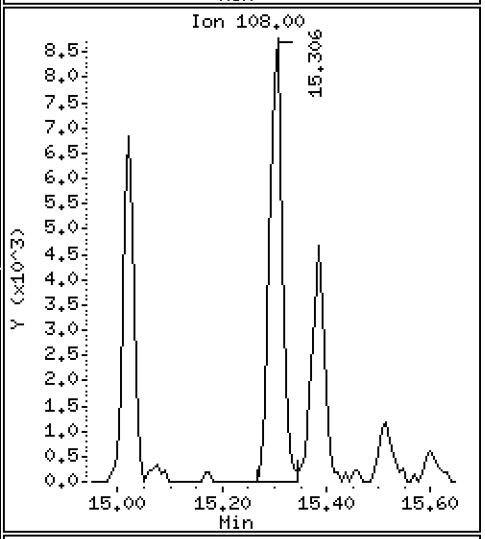
43 3-Nitroaniline

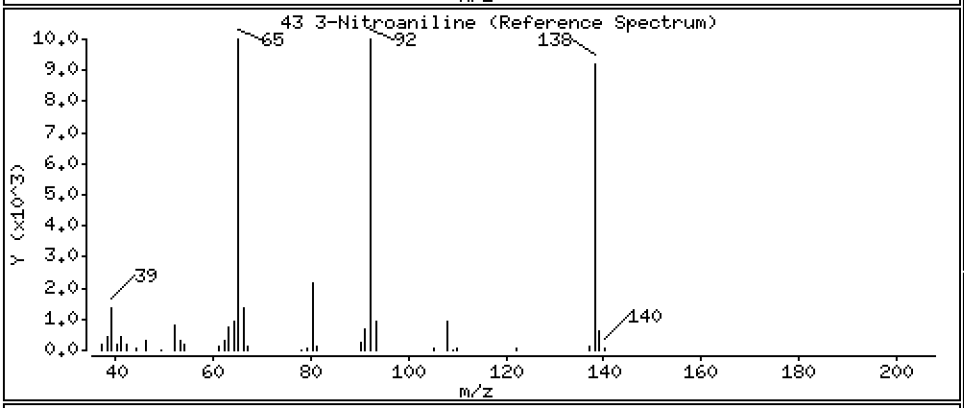
Concentration: 5.014 ug/mL

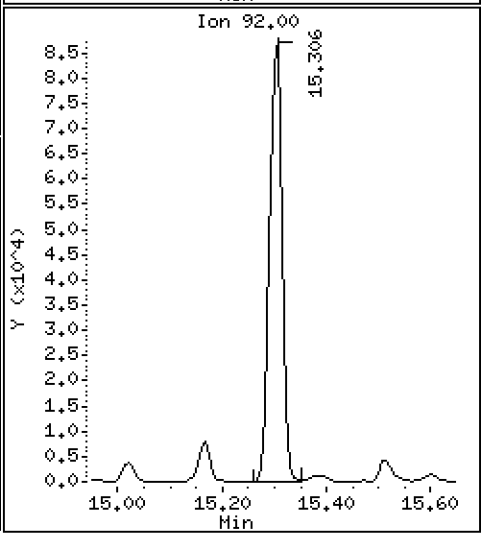


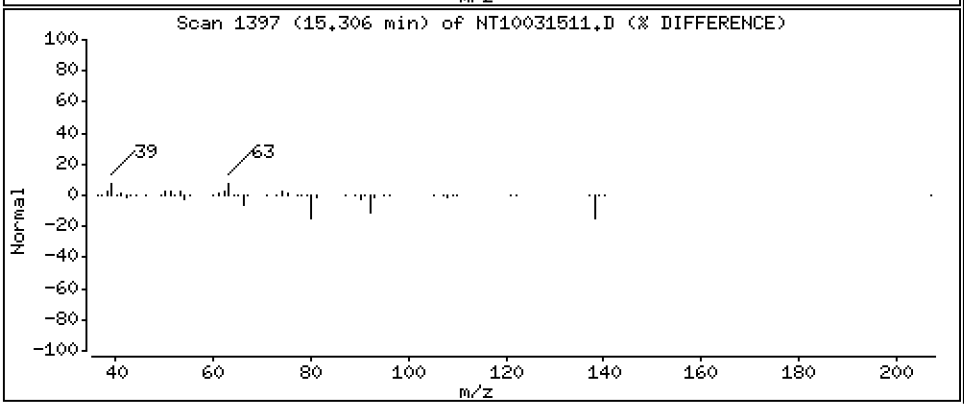












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

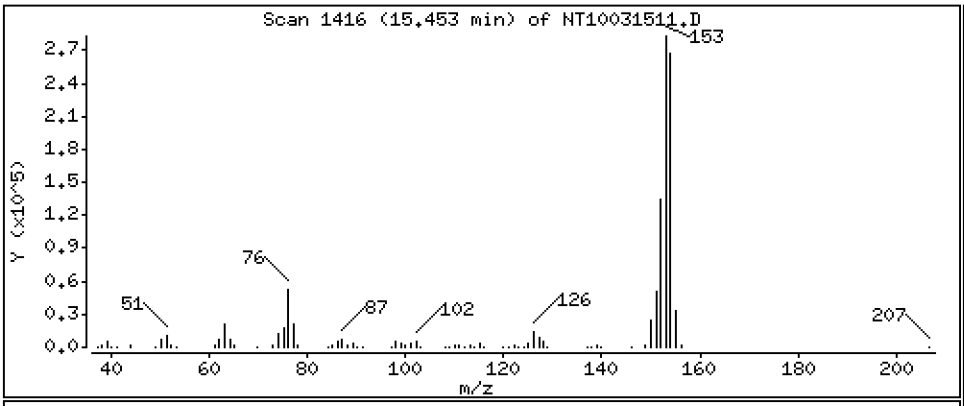
Operator: VTS

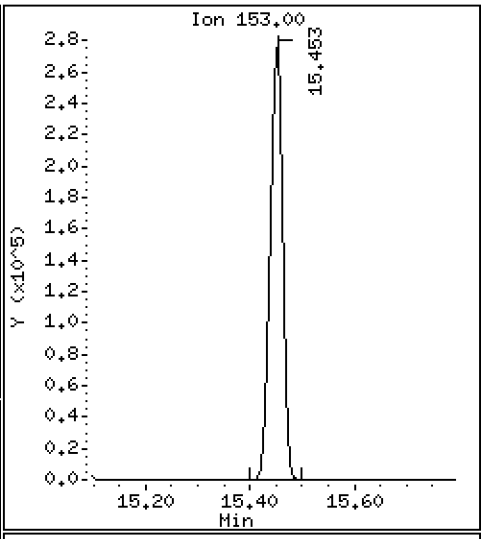
Column phase: ZB-5msi

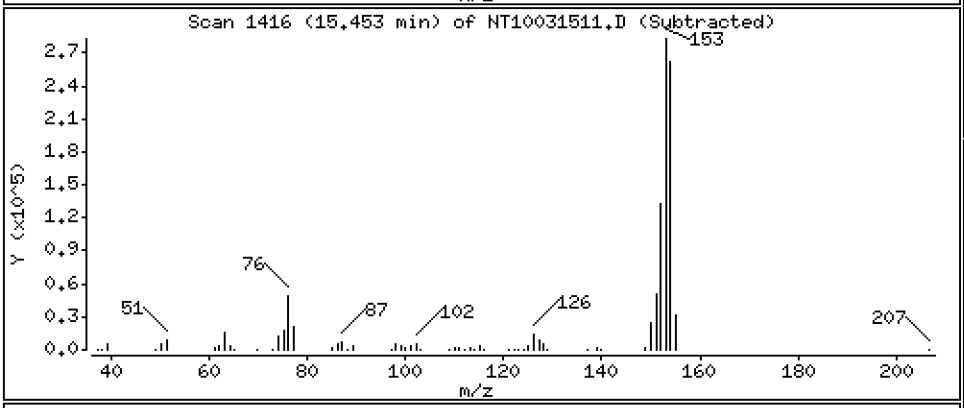
Column diameter: 0.25

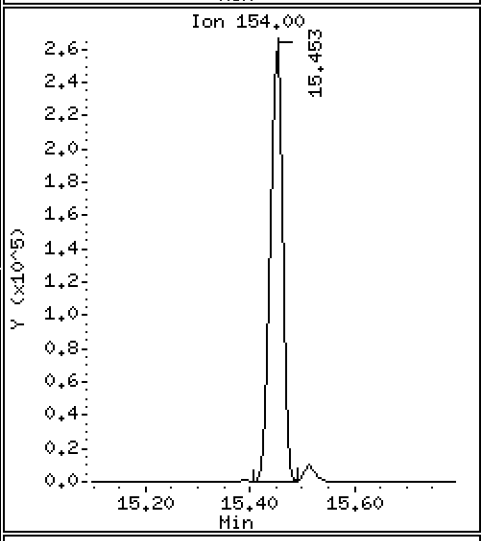
44 Acenaphthene

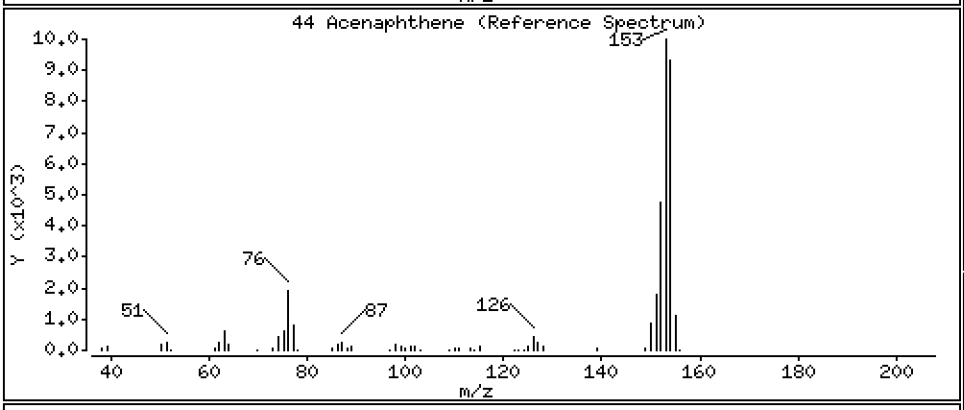
Concentration: 4.776 ug/mL

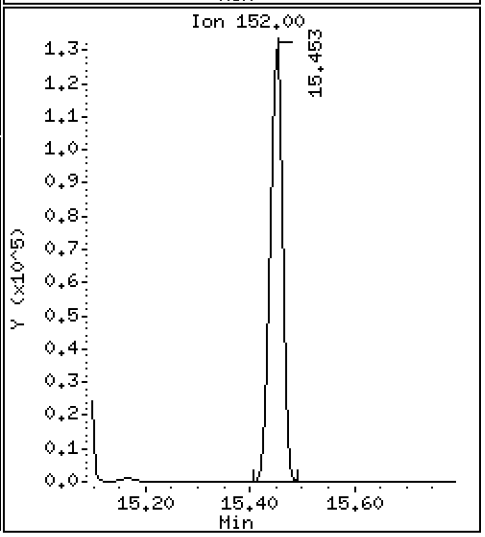


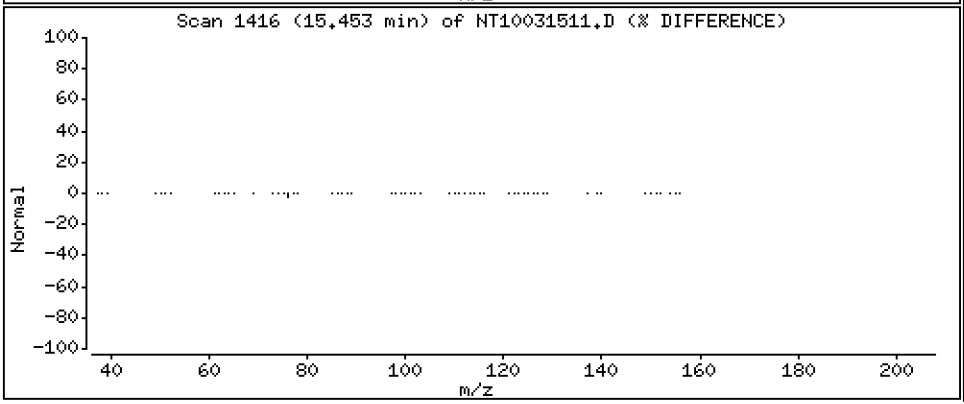












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

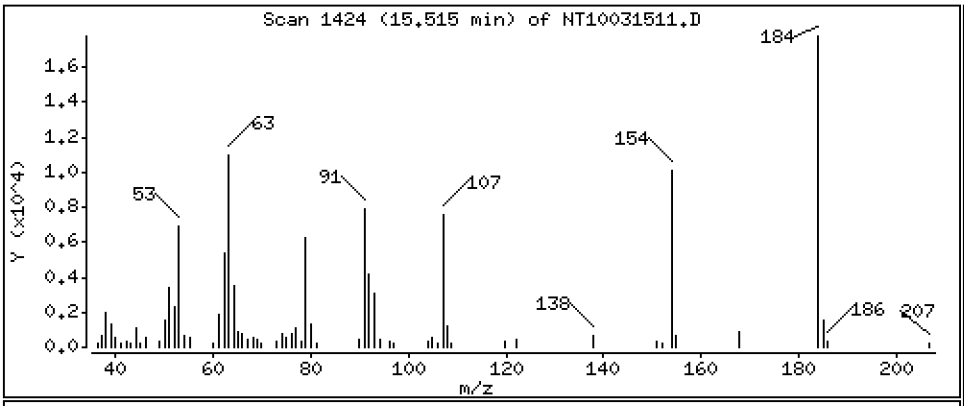
Operator: VTS

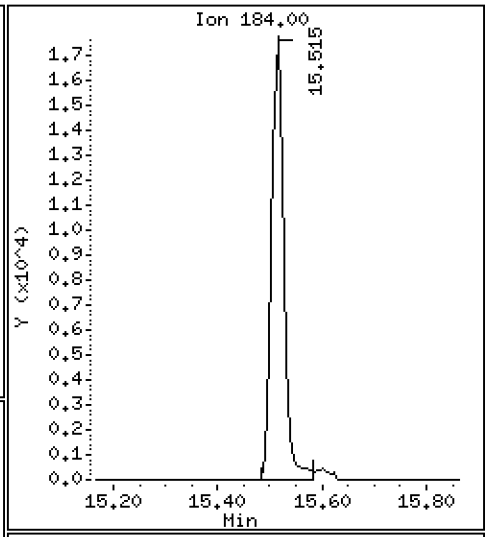
Column phase: ZB-5msi

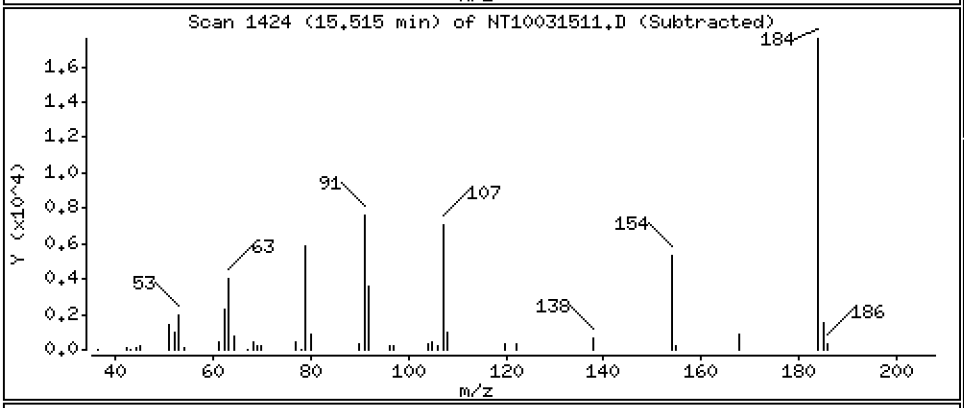
Column diameter: 0.25

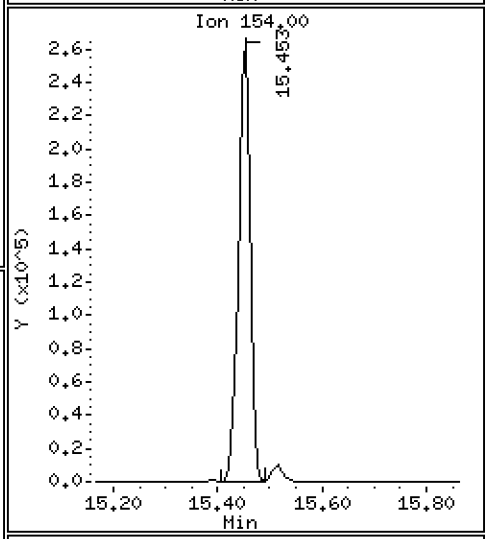
45 2,4-Dinitrophenol

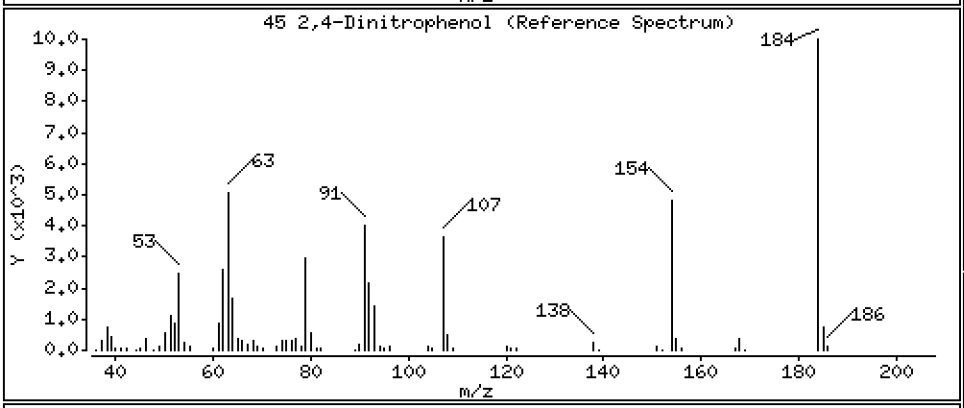
Concentration: 2.124 ug/mL

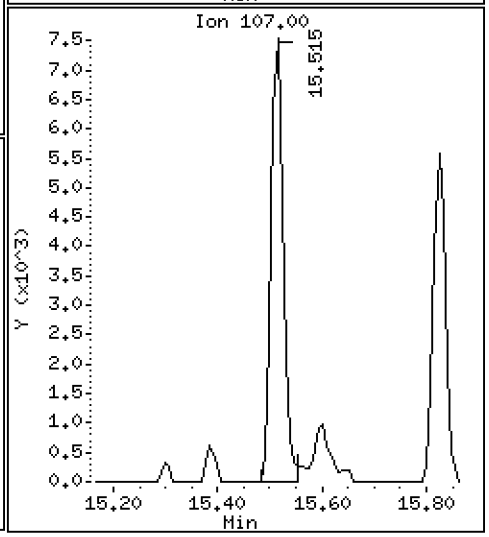


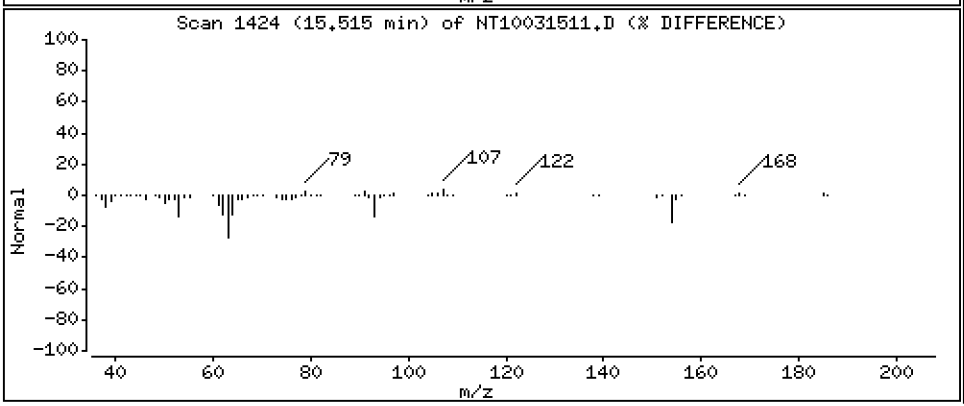












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

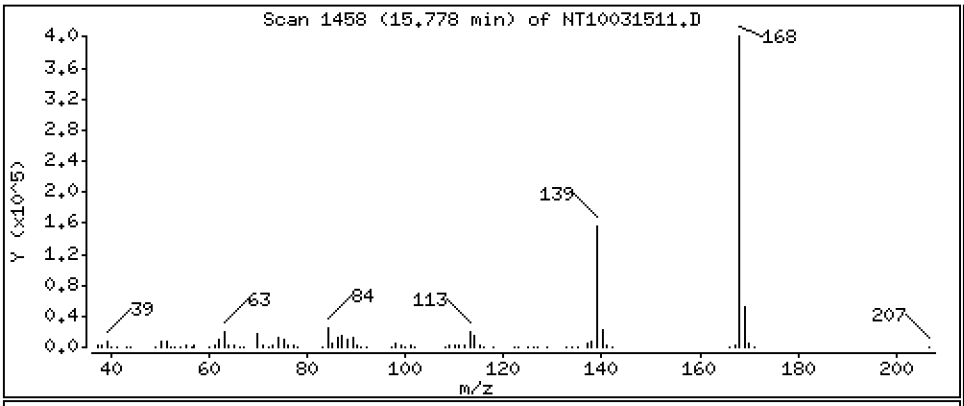
Operator: VTS

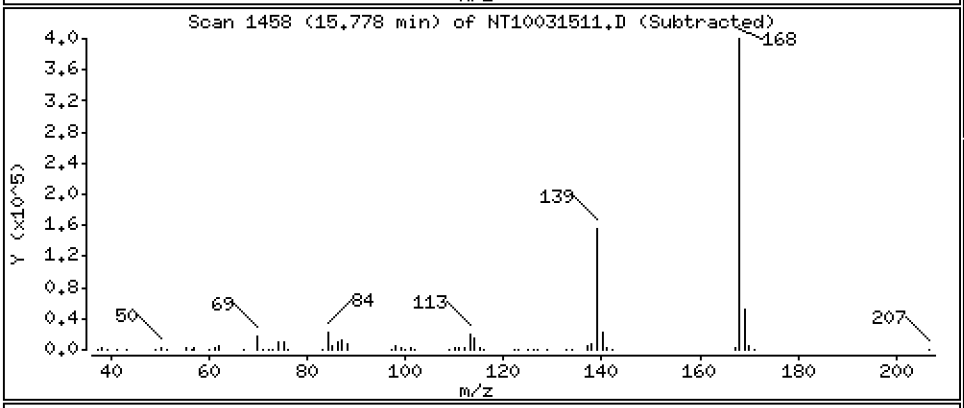
Column phase: ZB-5msi

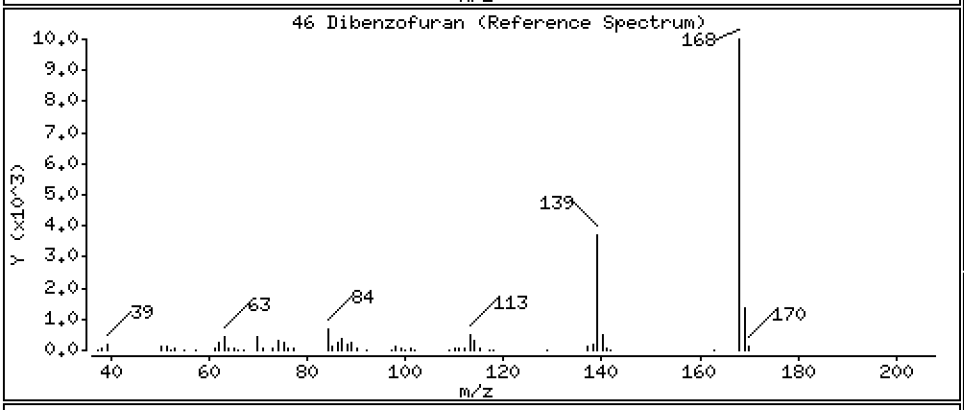
Column diameter: 0.25

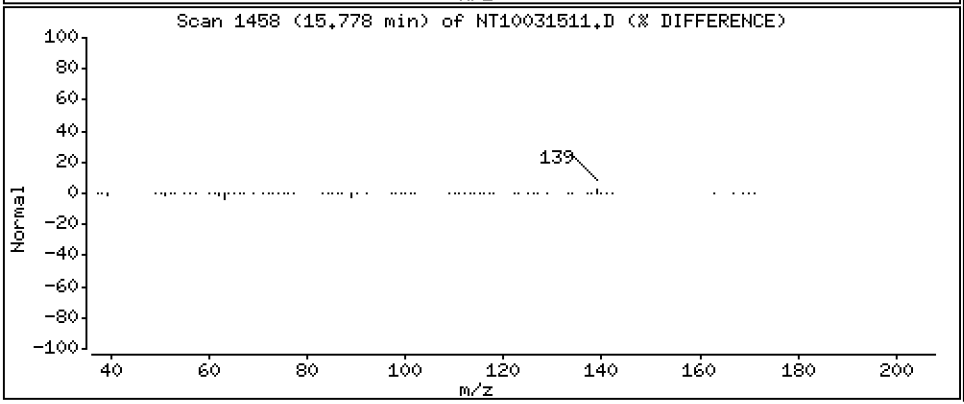
46 Dibenzofuran

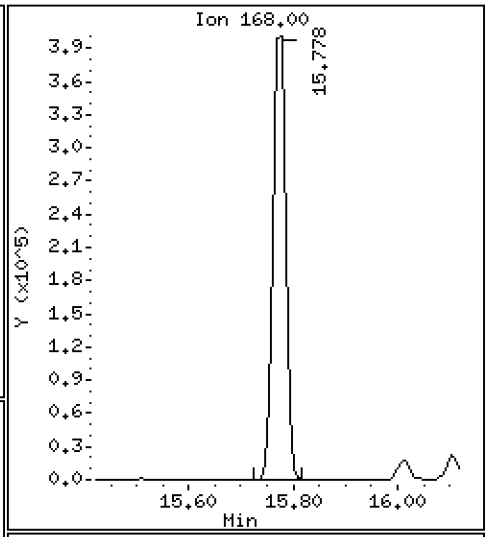
Concentration: 4.648 ug/mL

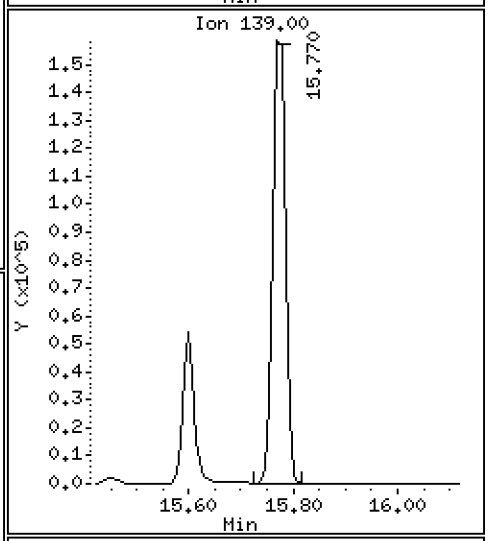


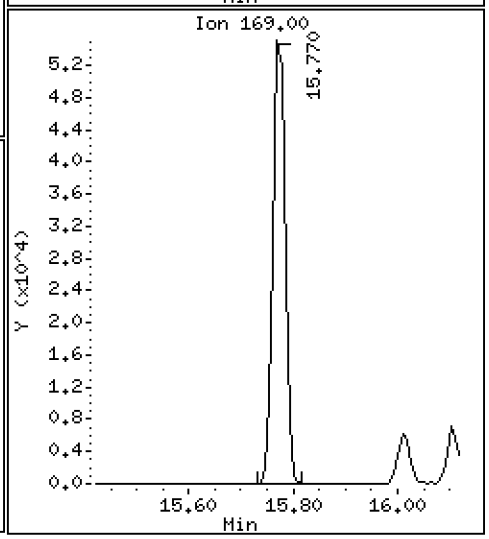












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

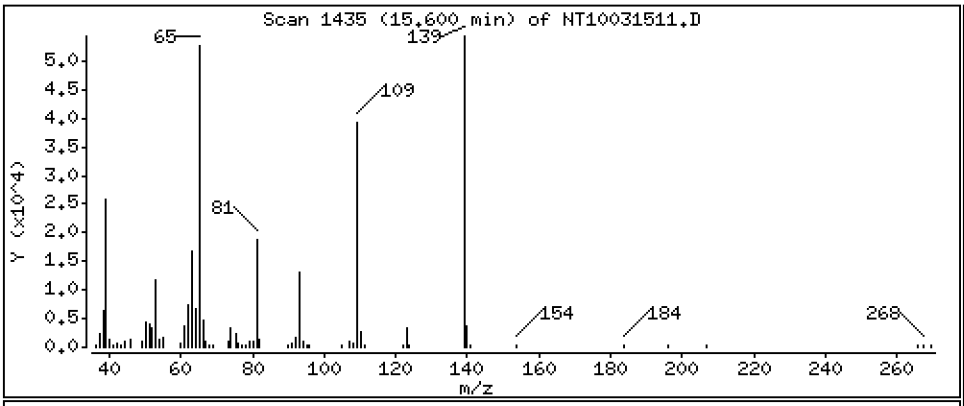
Operator: VTS

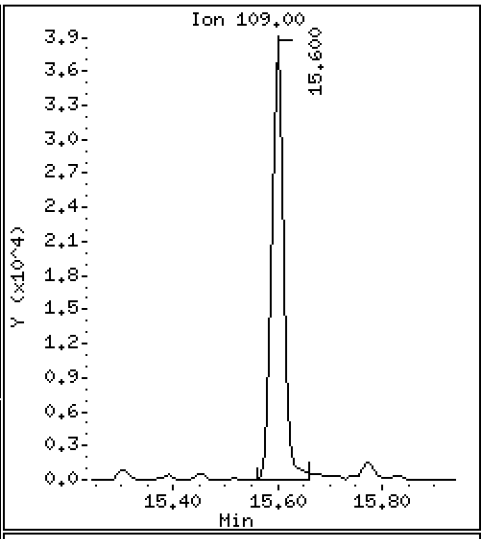
Column phase: ZB-5msi

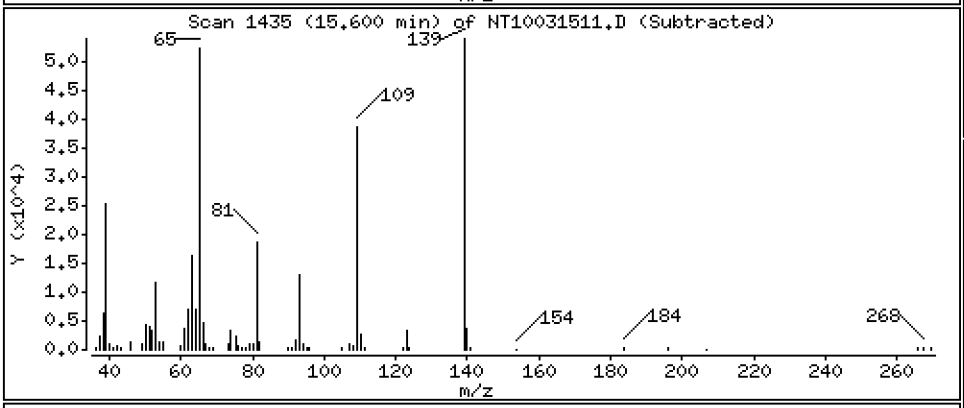
Column diameter: 0.25

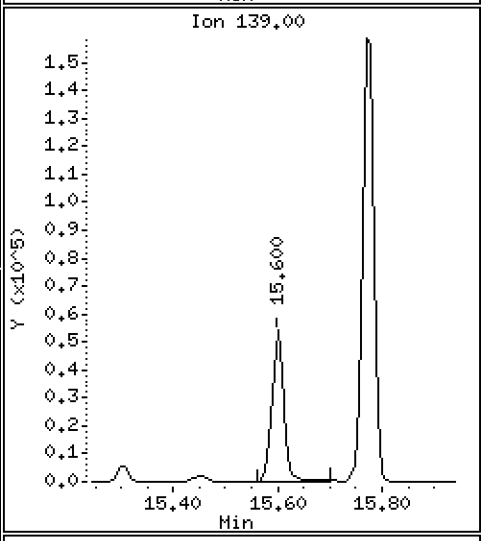
47 4-Nitrophenol

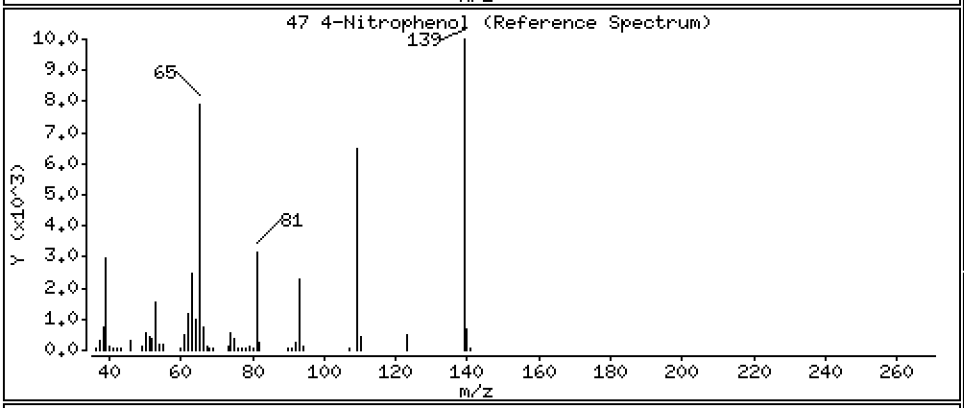
Concentration: 3.966 ug/mL

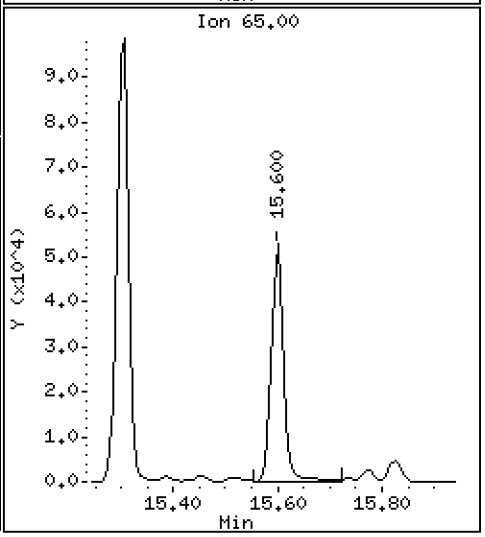


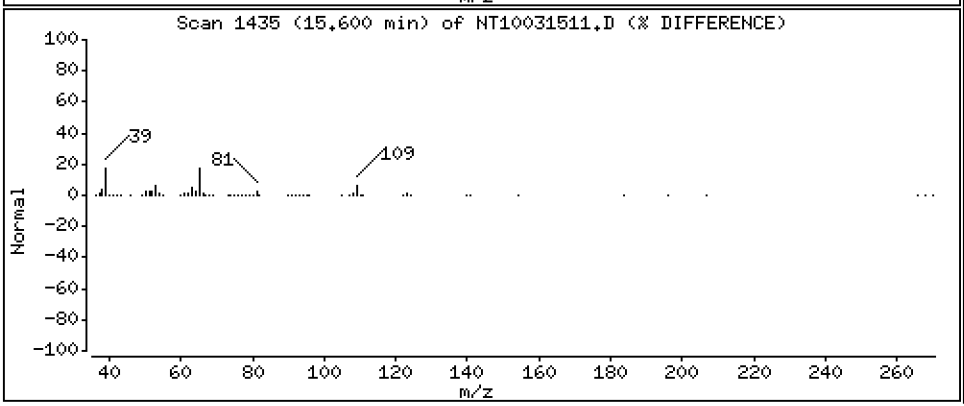












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

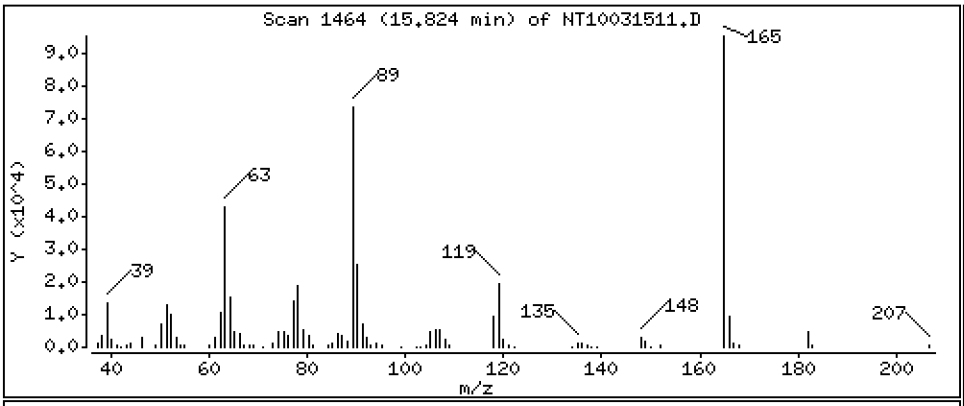
Operator: VTS

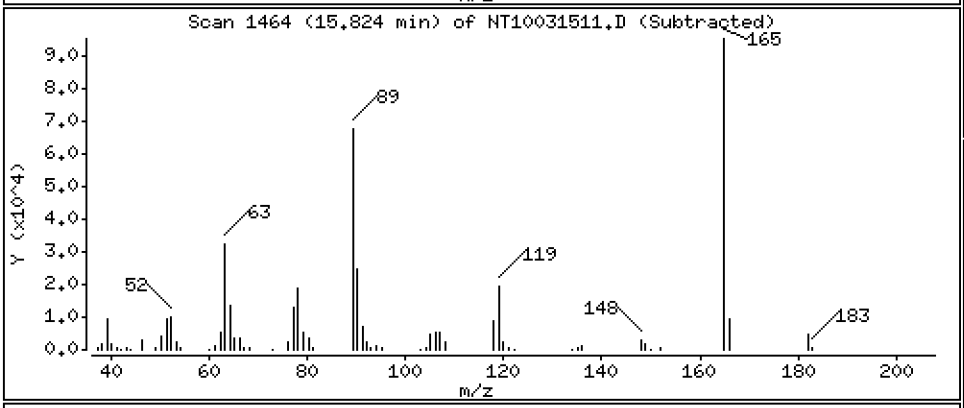
Column phase: ZB-5msi

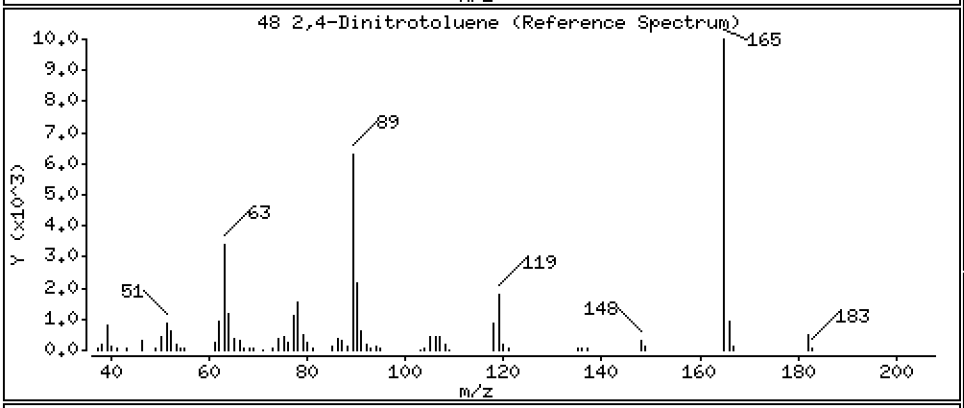
Column diameter: 0.25

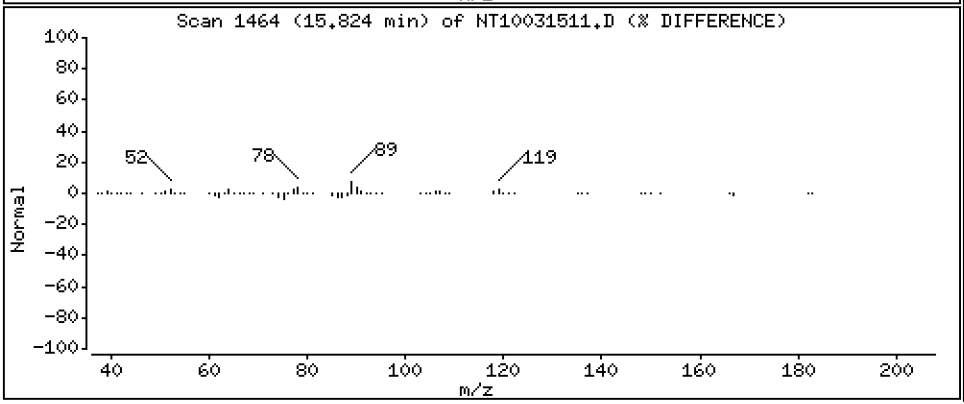
48 2,4-Dinitrotoluene

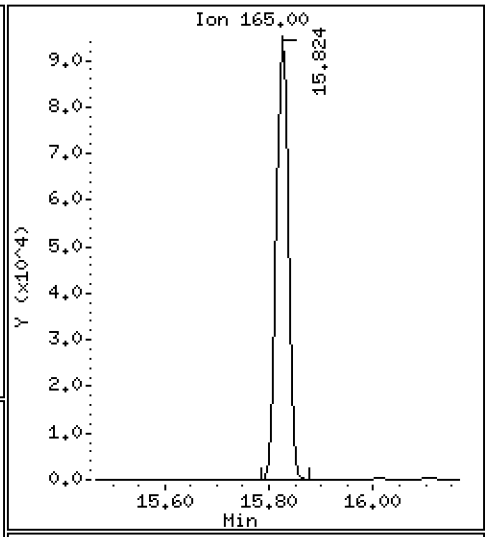
Concentration: 4.510 ug/mL

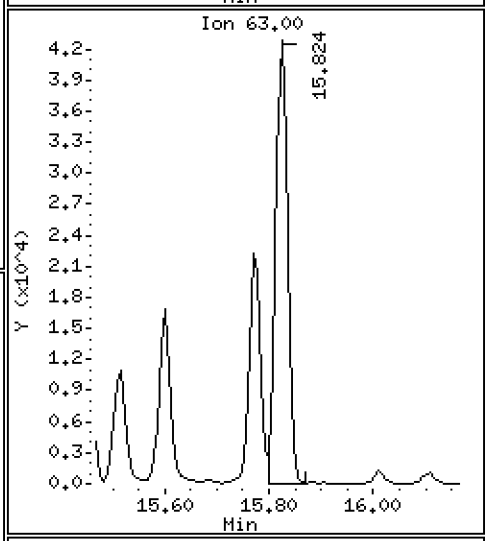


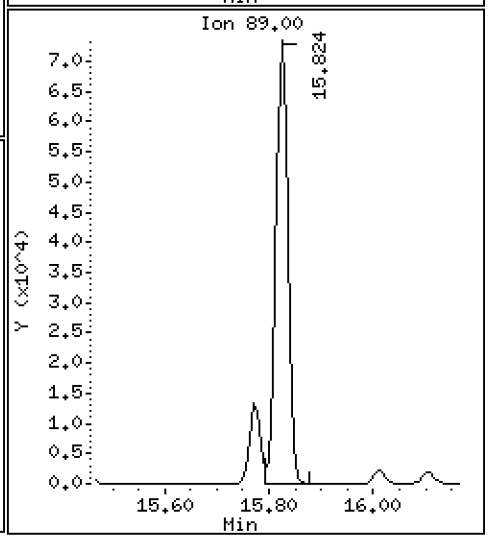












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

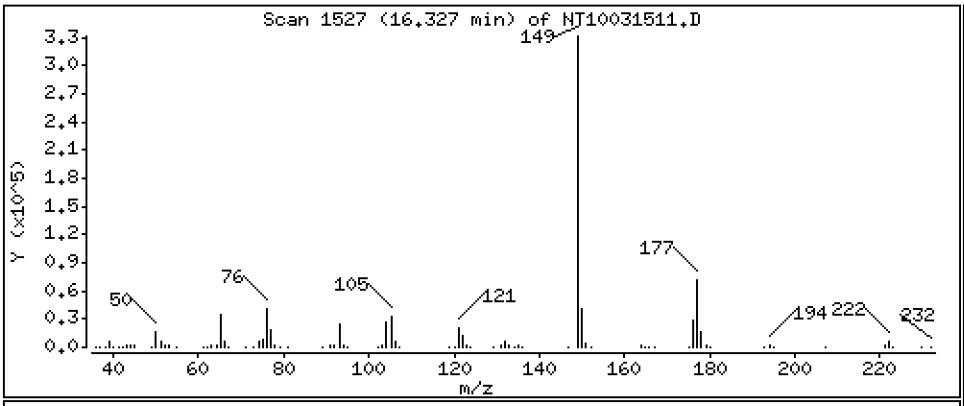
Operator: VTS

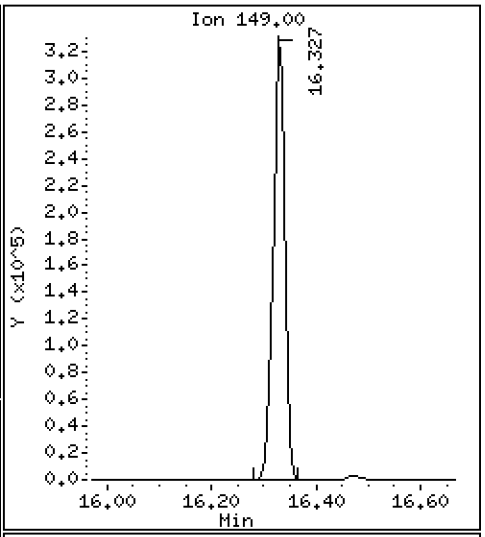
Column phase: ZB-5msi

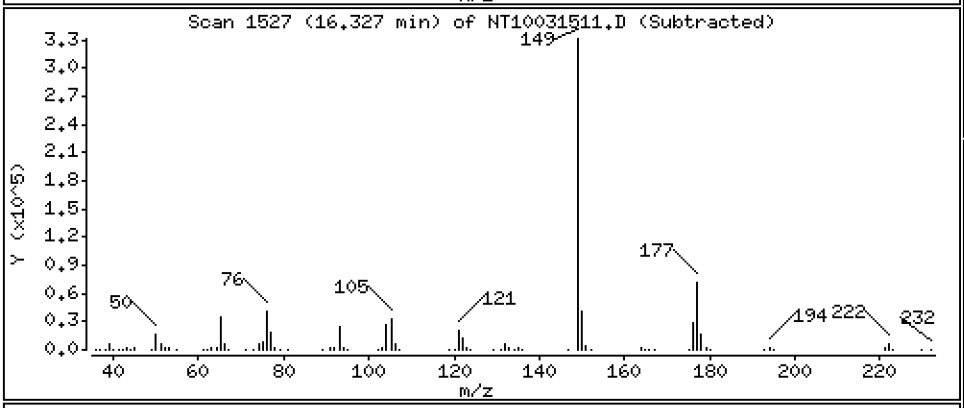
Column diameter: 0.25

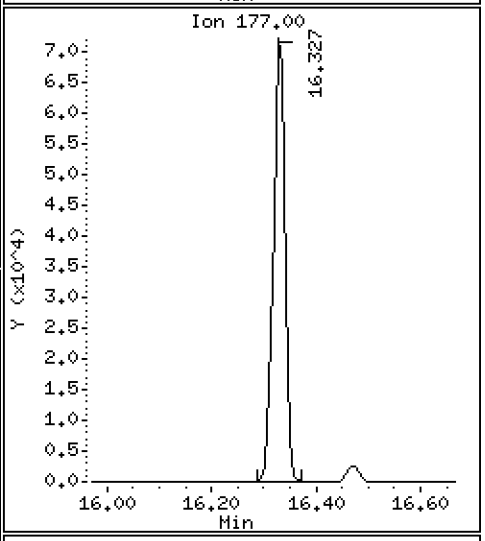
50 Diethylphthalate

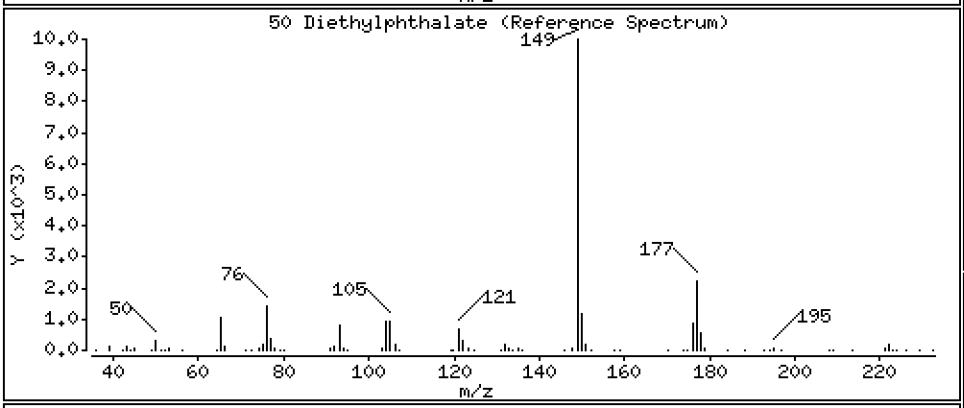
Concentration: 5.209 ug/mL

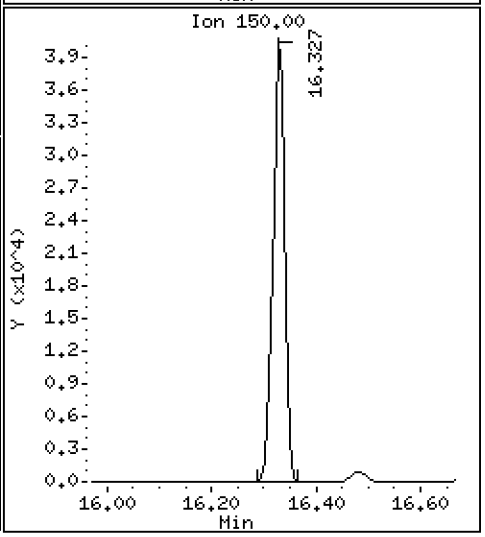


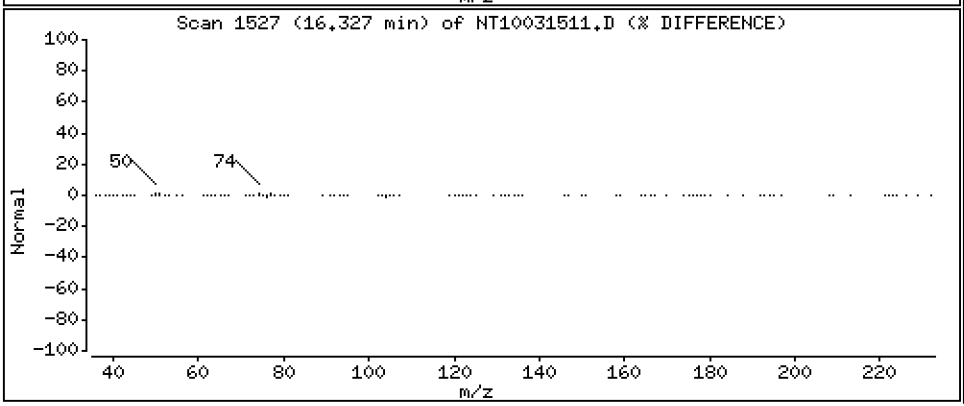












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

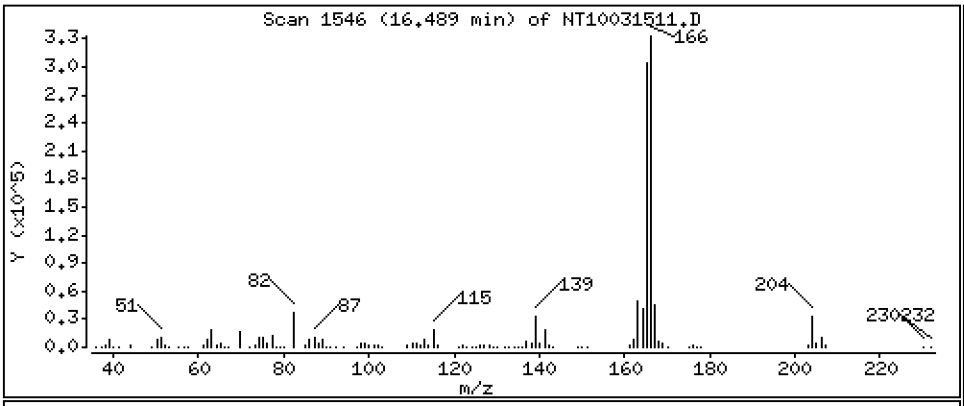
Operator: VTS

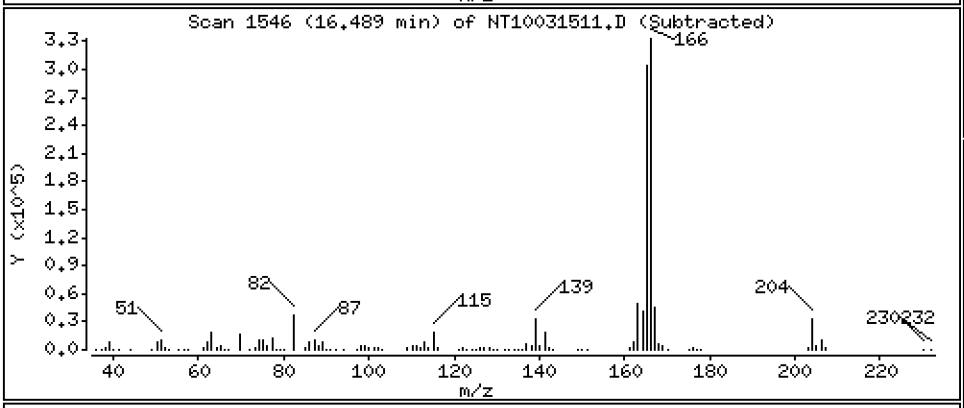
Column phase: ZB-5msi

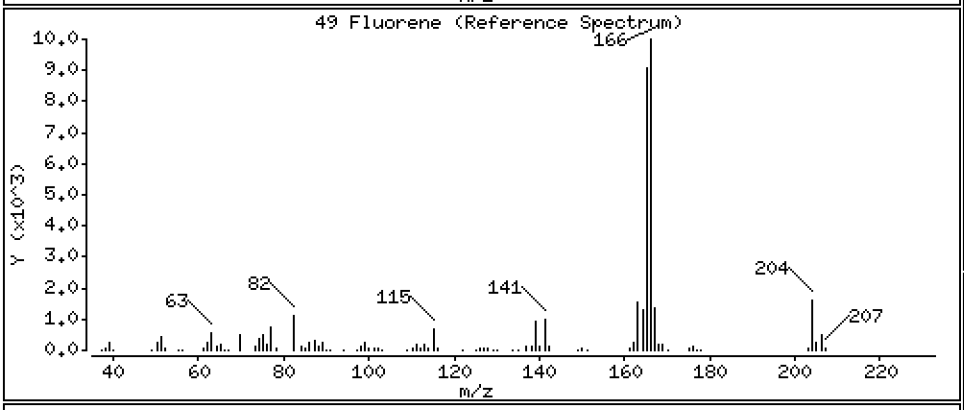
Column diameter: 0.25

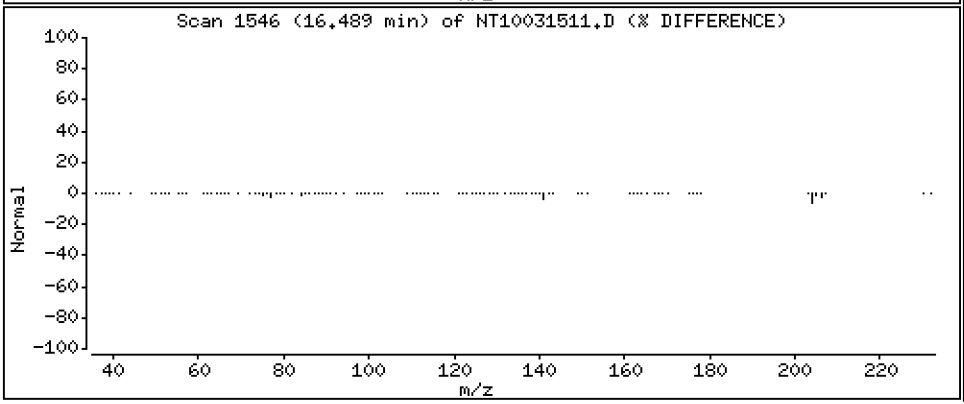
49 Fluorene

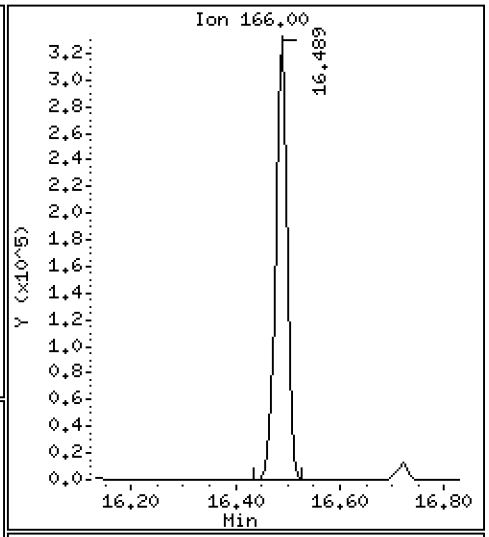
Concentration: 4.708 ug/mL

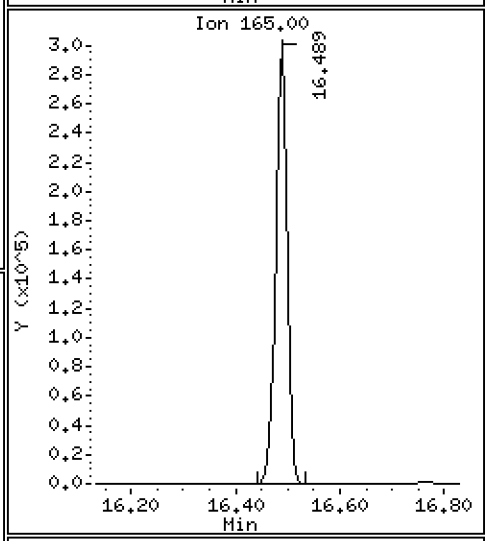


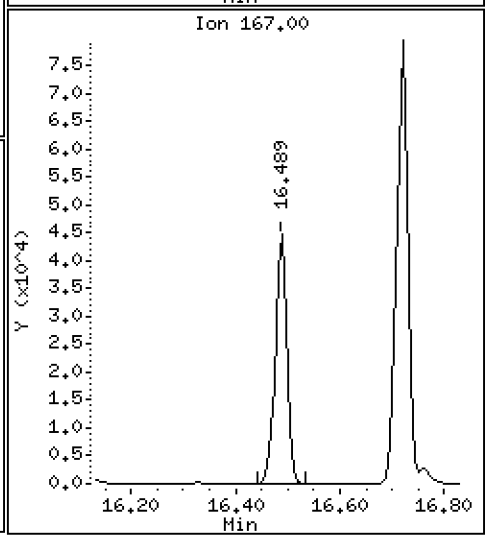












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

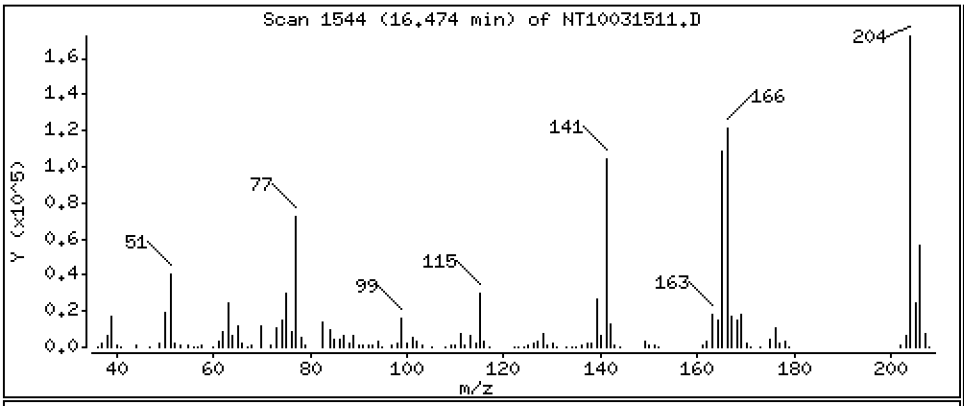
Operator: VTS

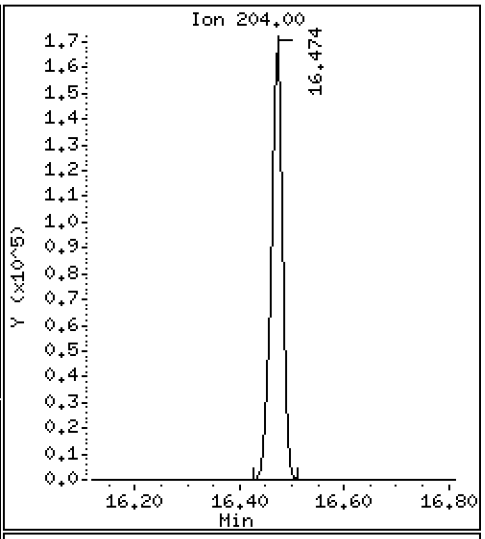
Column phase: ZB-5msi

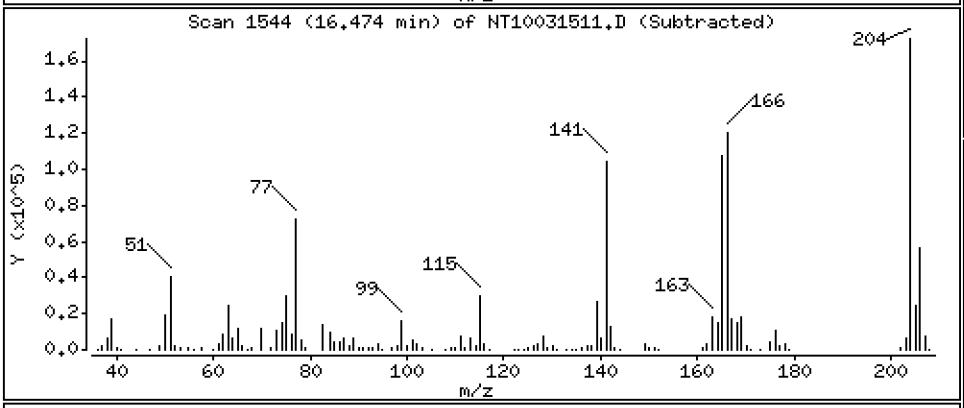
Column diameter: 0.25

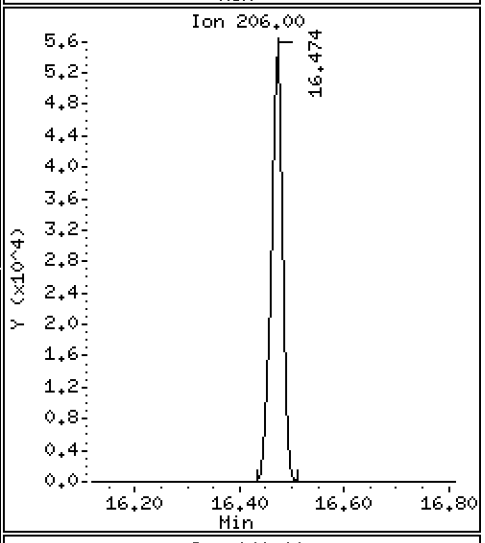
51 4-Chlorophenyl-phenylether

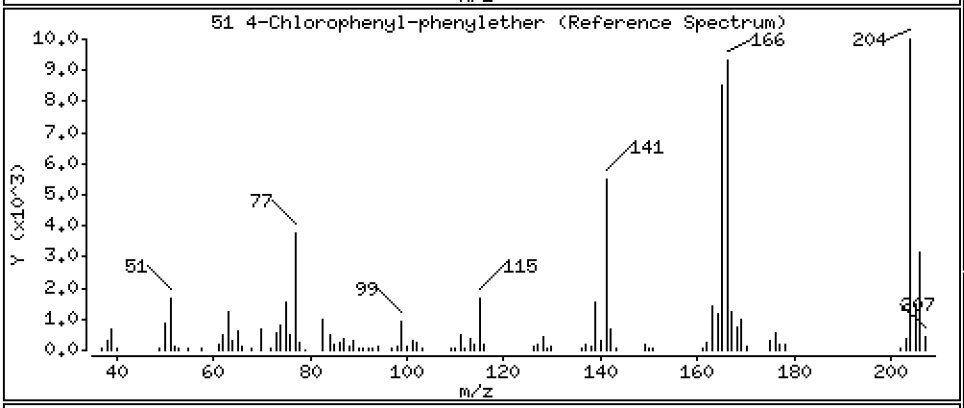
Concentration: 4.993 ug/mL

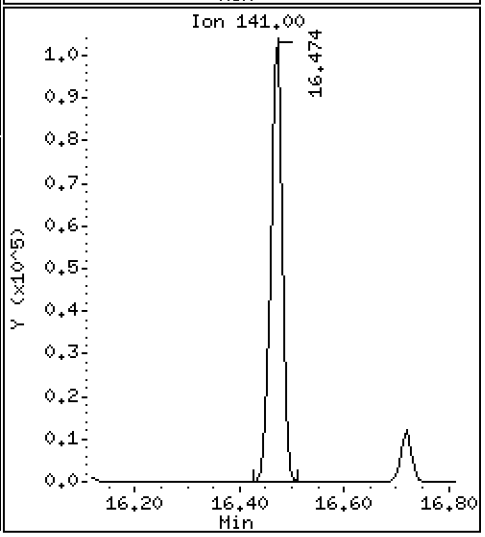


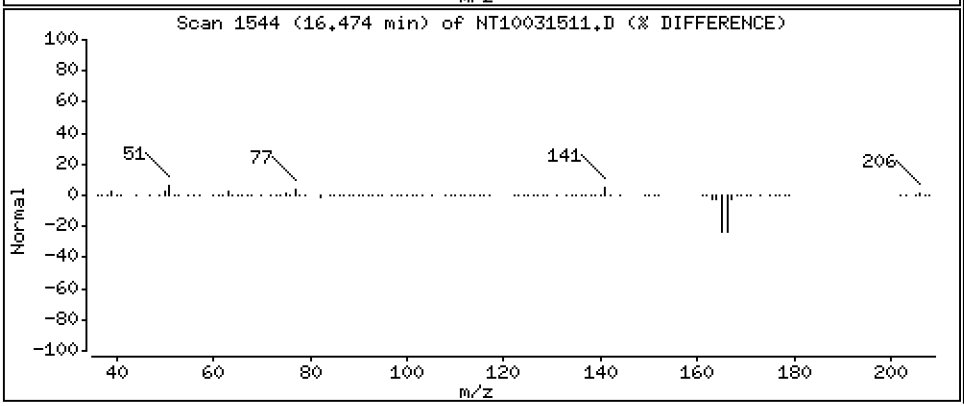












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

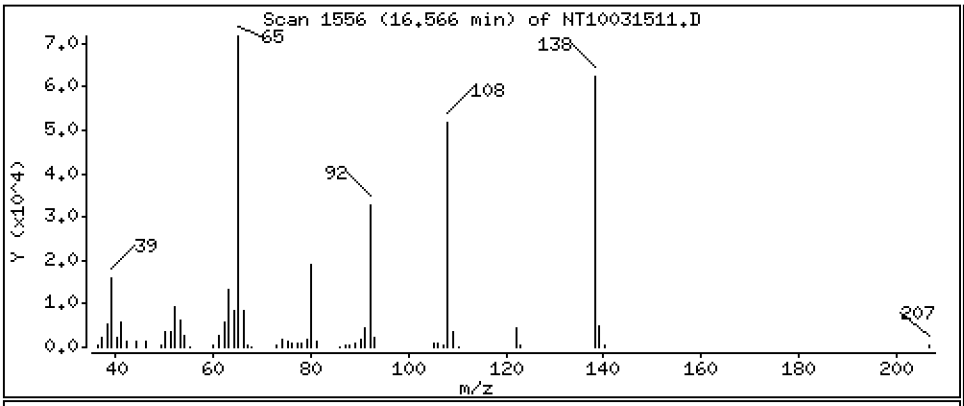
Operator: VTS

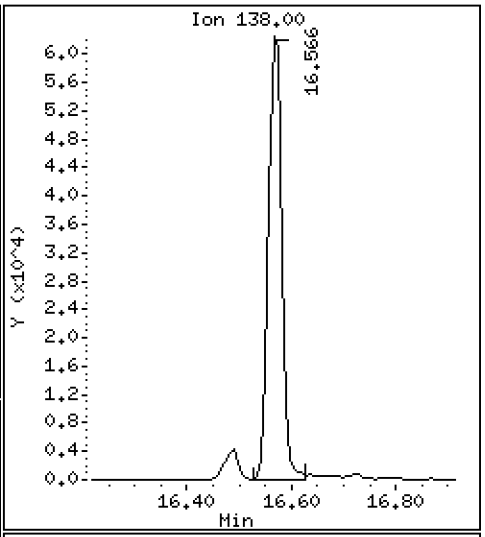
Column phase: ZB-5msi

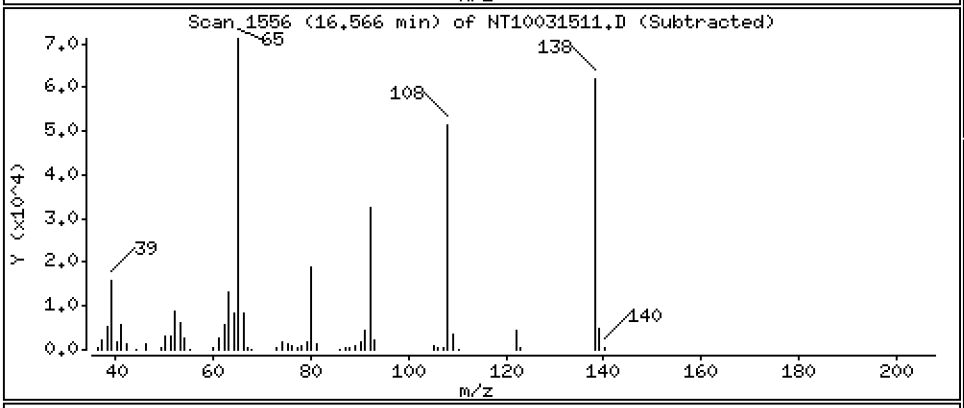
Column diameter: 0.25

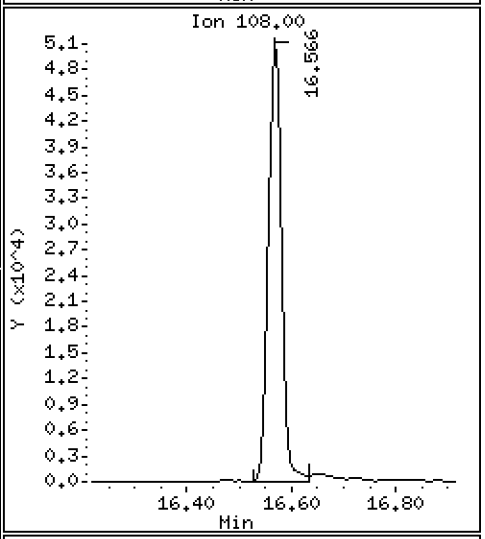
52 4-Nitroaniline

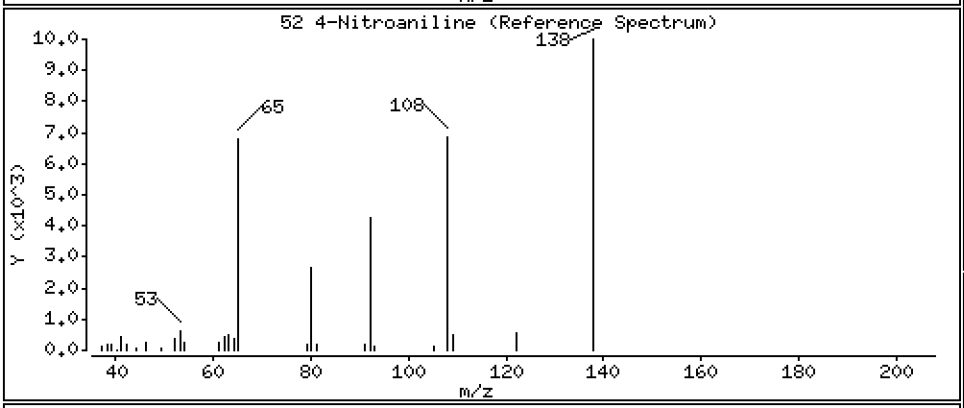
Concentration: 4.925 ug/mL

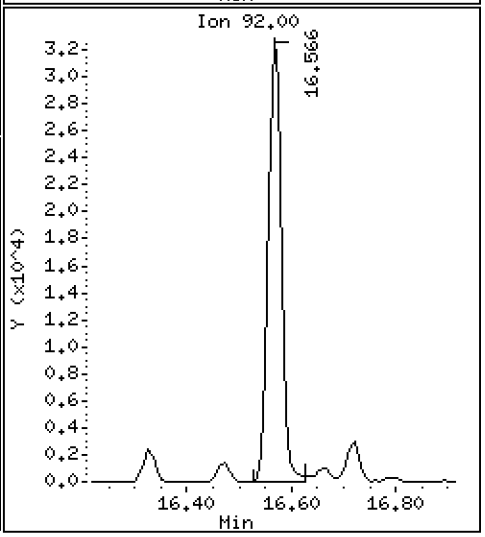


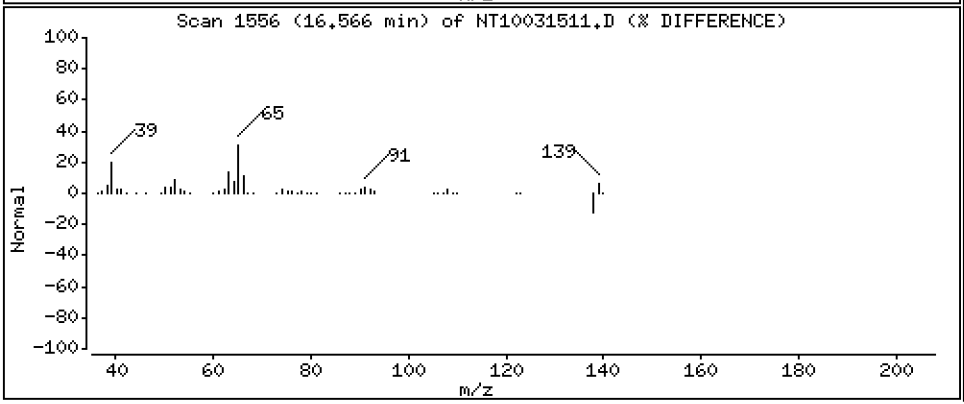












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

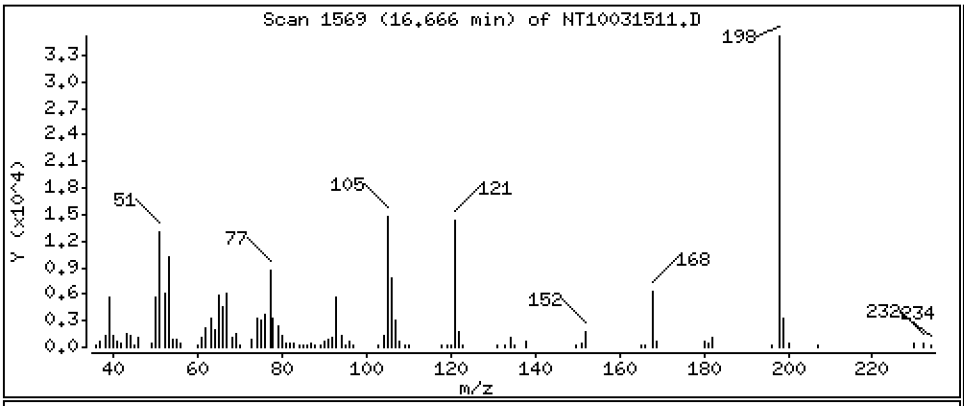
Operator: VTS

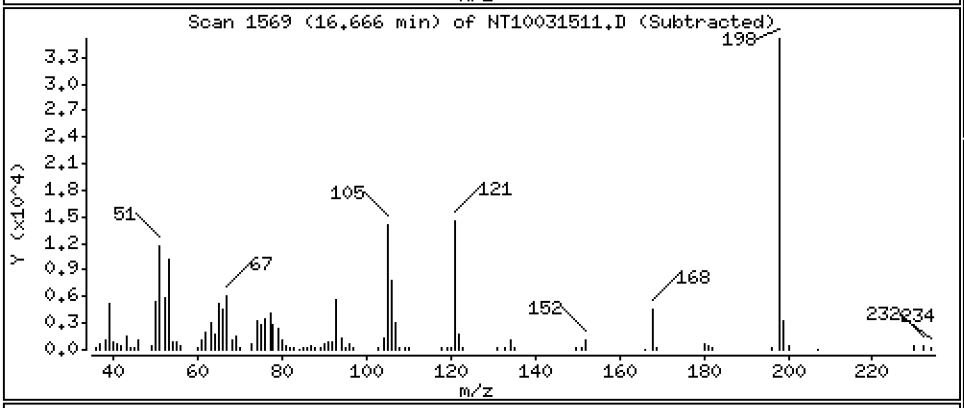
Column phase: ZB-5msi

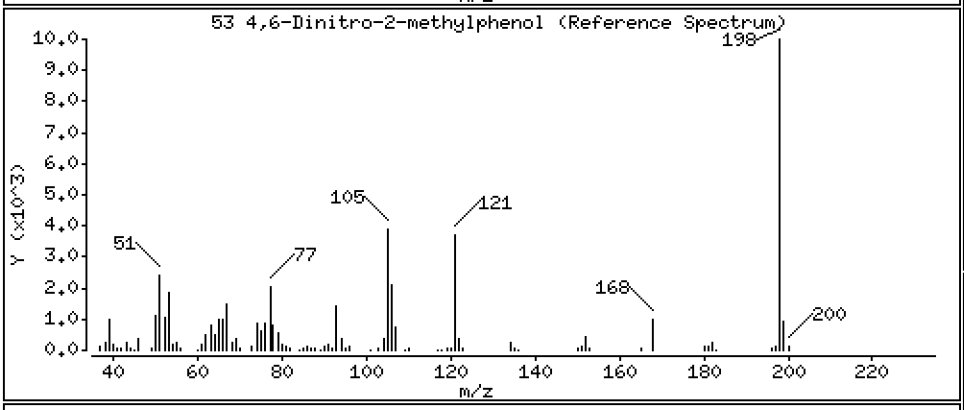
Column diameter: 0.25

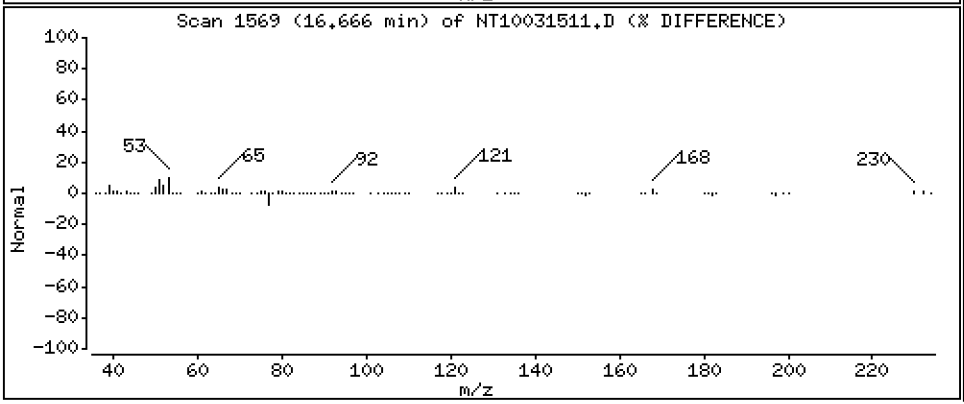
53 4,6-Dinitro-2-methylphenol

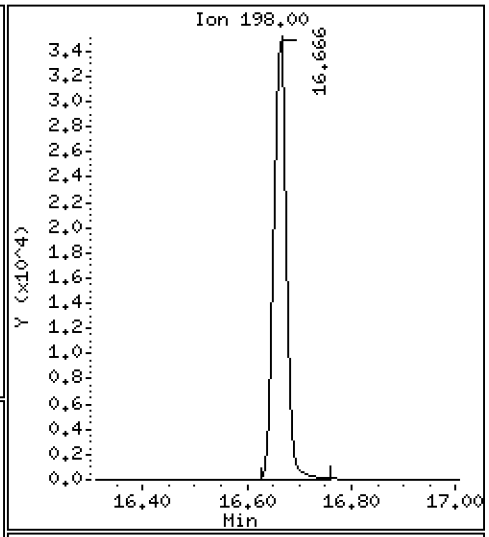
Concentration: 3.515 ug/mL

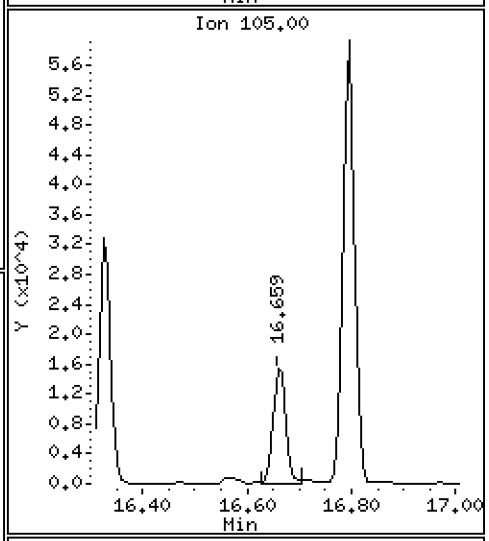


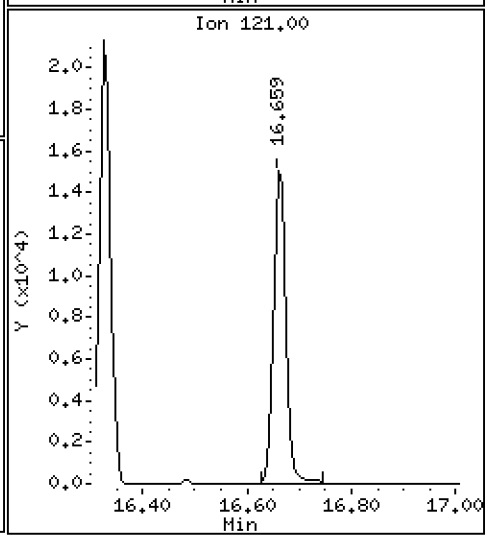












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

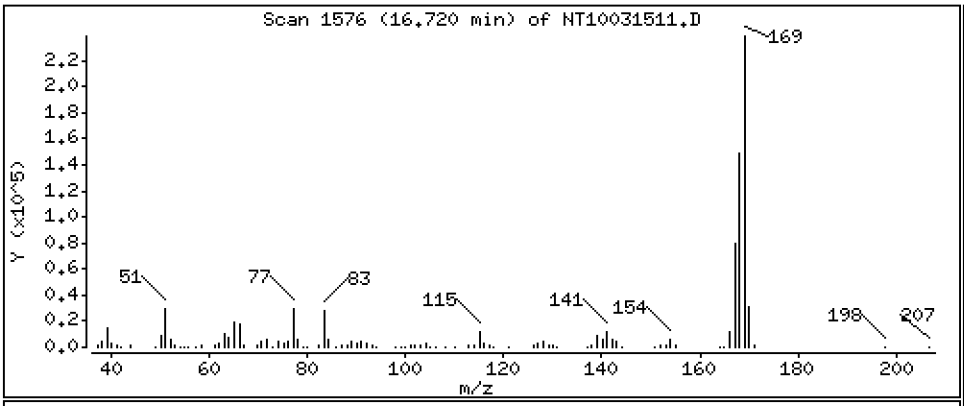
Operator: VTS

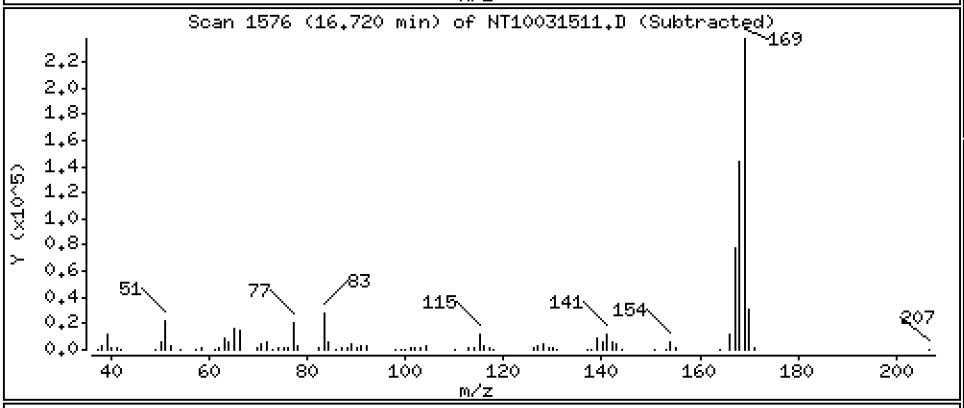
Column phase: ZB-5msi

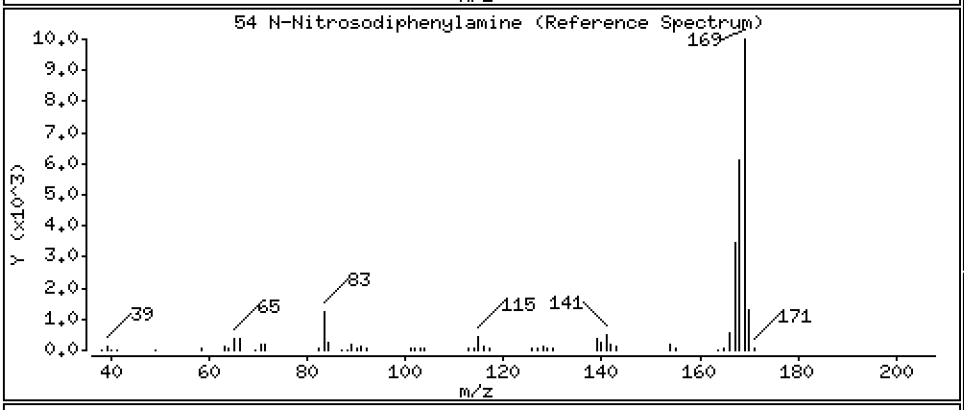
Column diameter: 0.25

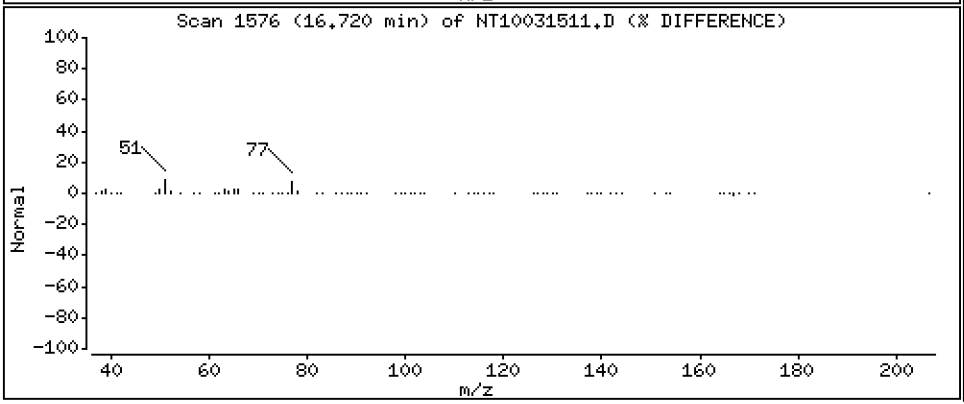
54 N-Nitrosodiphenylamine

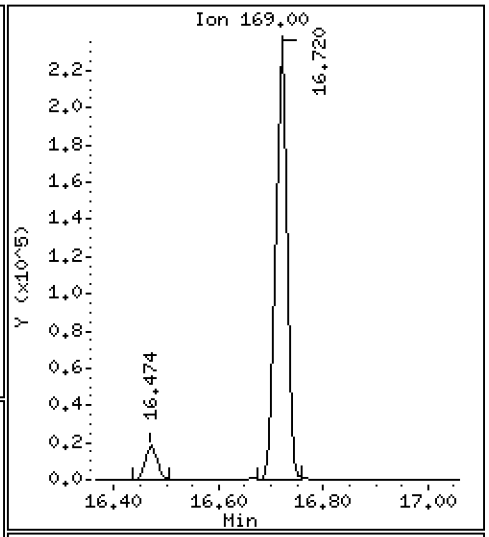
Concentration: 4.802 ug/mL

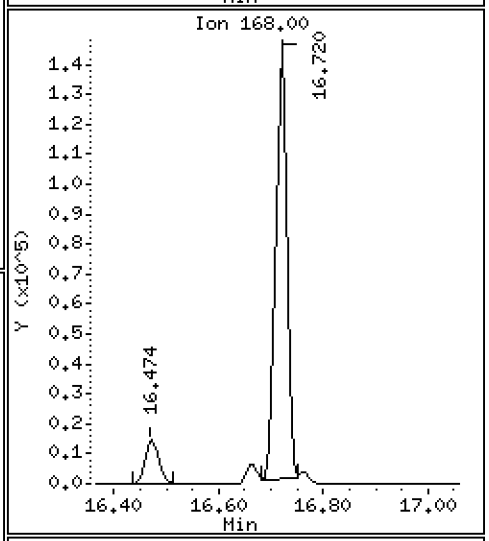


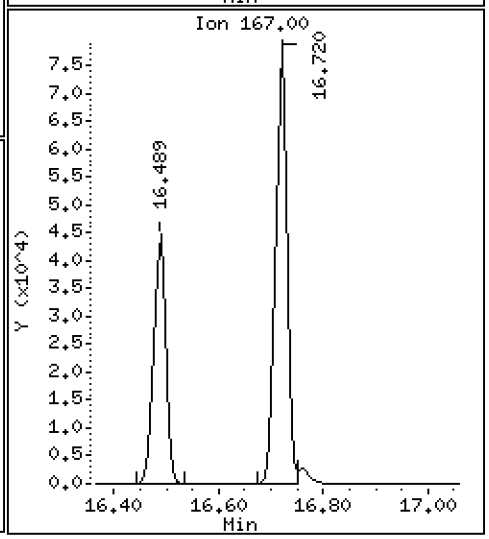












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

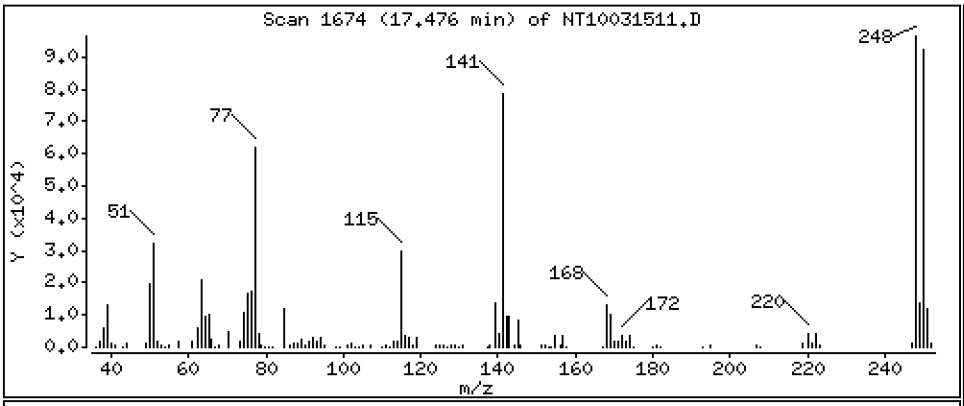
Operator: VTS

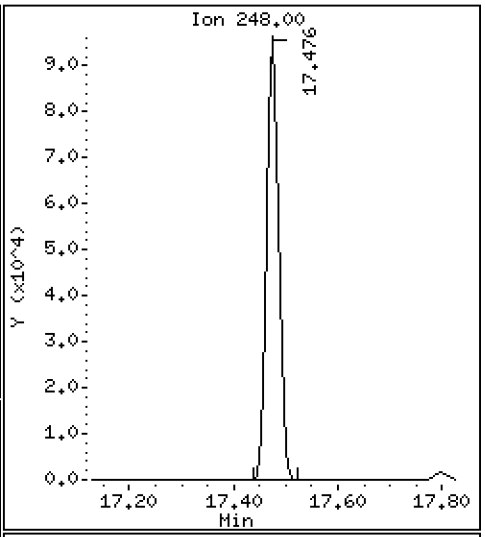
Column phase: ZB-5msi

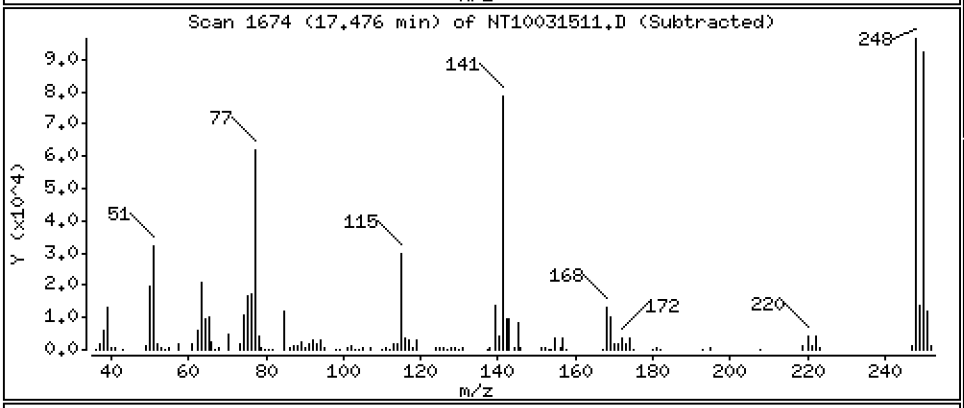
Column diameter: 0.25

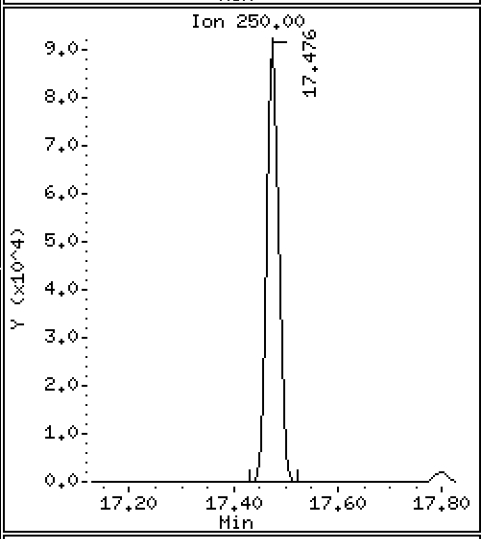
56 4-Bromophenyl-phenylether

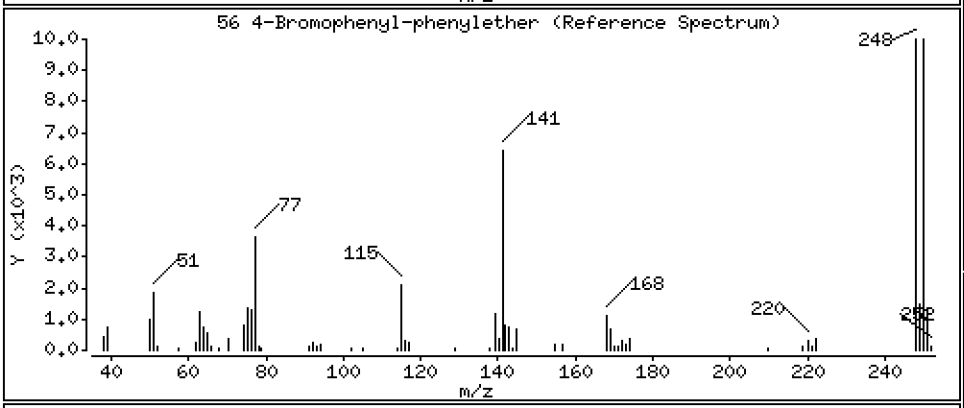
Concentration: 5.060 ug/mL

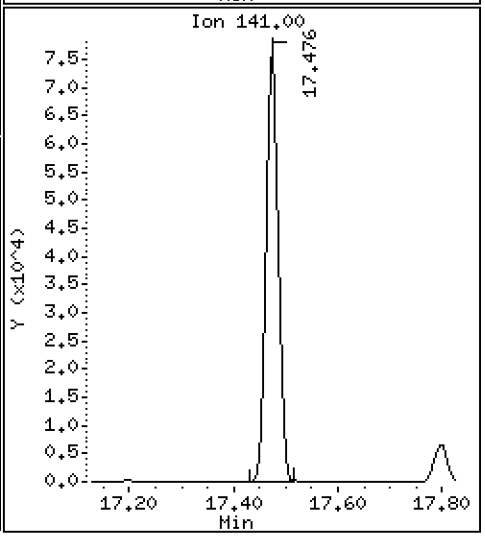


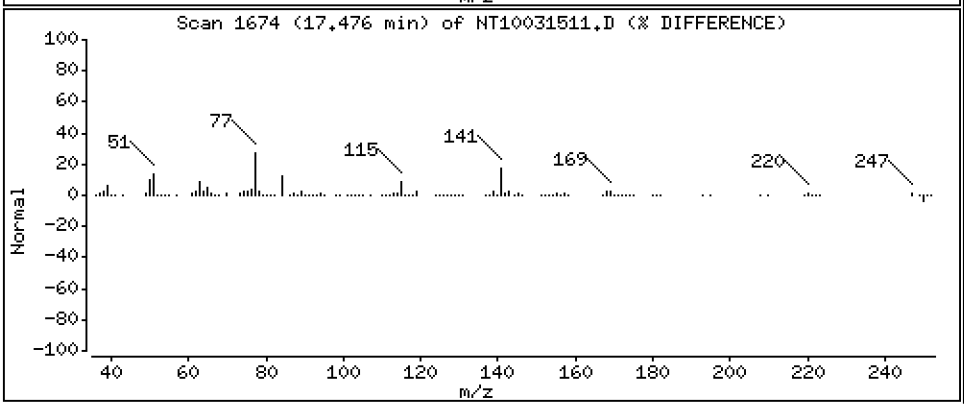












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

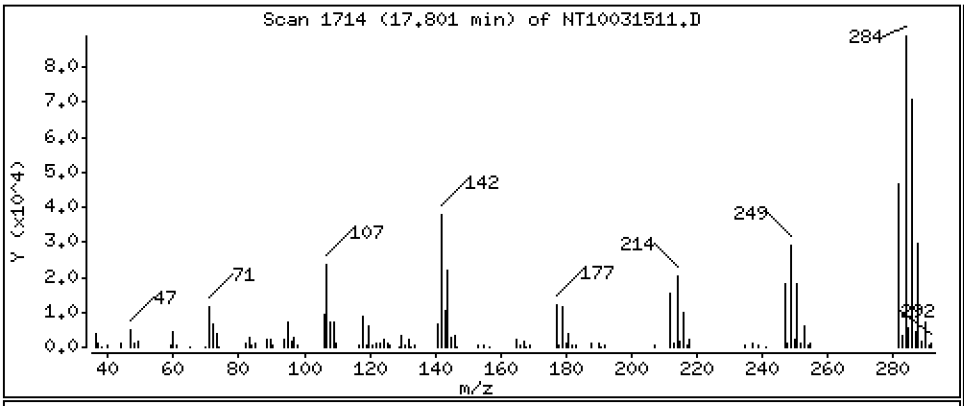
Operator: VTS

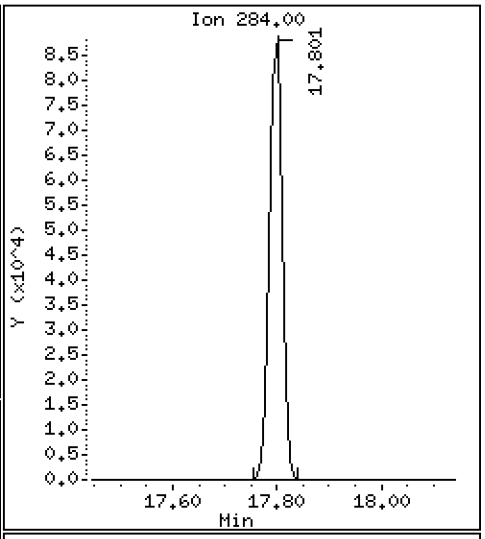
Column phase: ZB-5msi

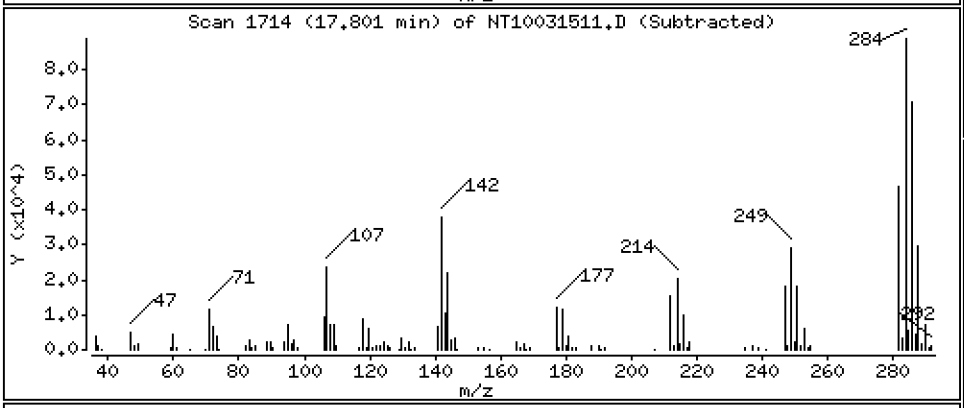
Column diameter: 0.25

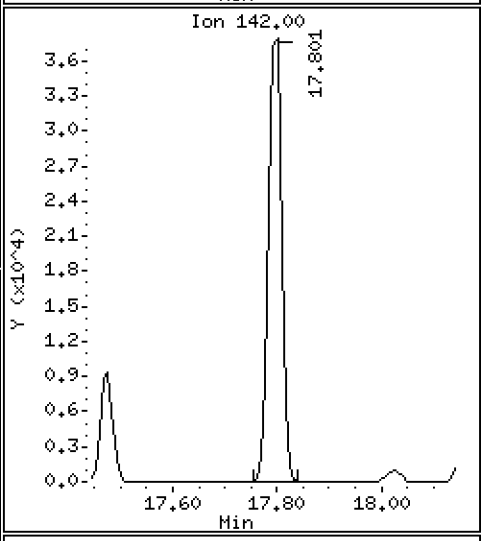
57 Hexachlorobenzene

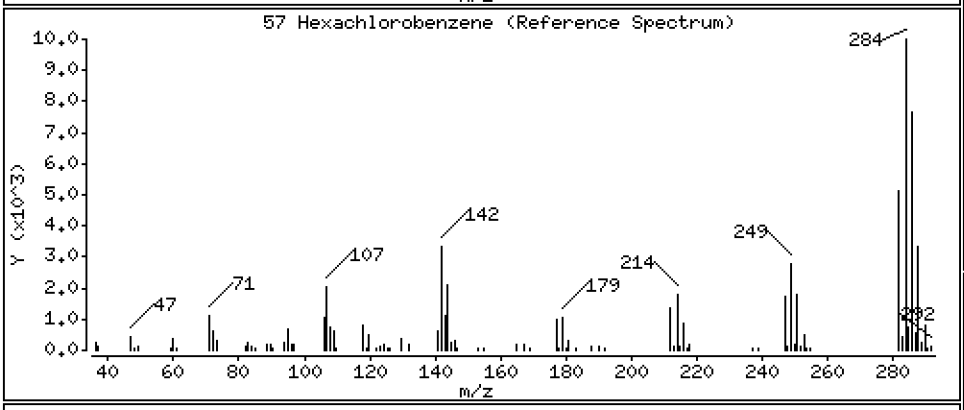
Concentration: 4.596 ug/mL

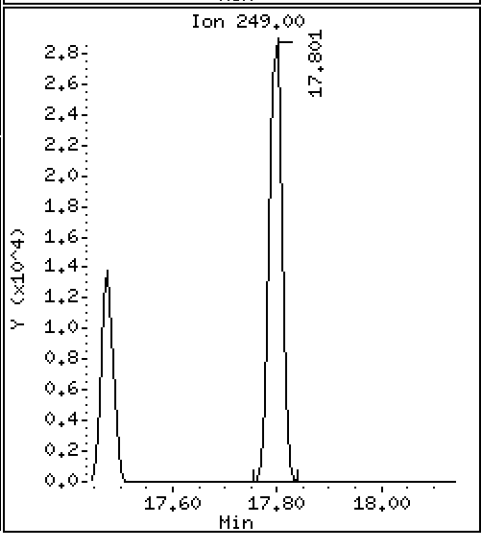


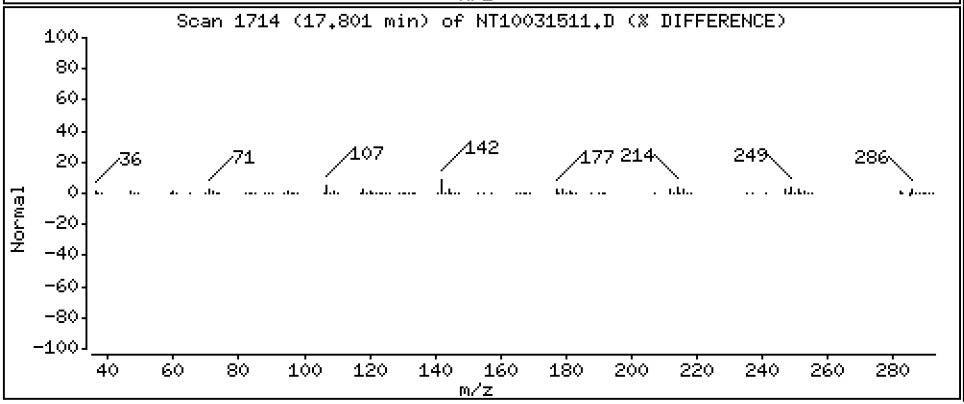












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

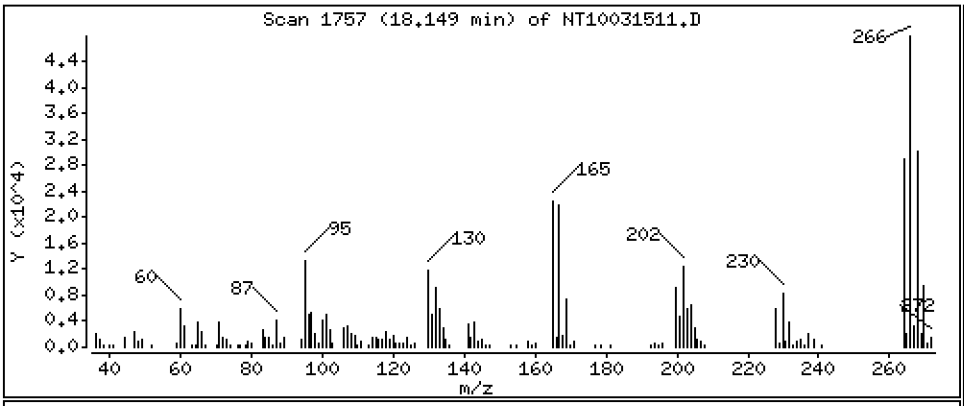
Operator: VTS

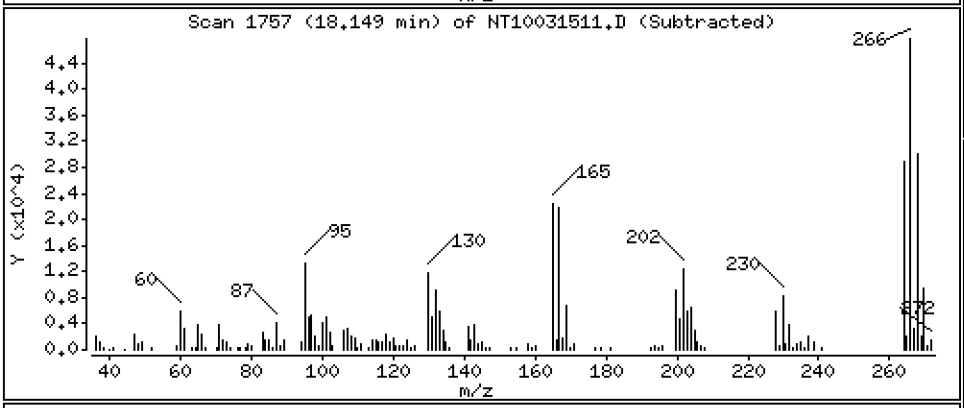
Column phase: ZB-5msi

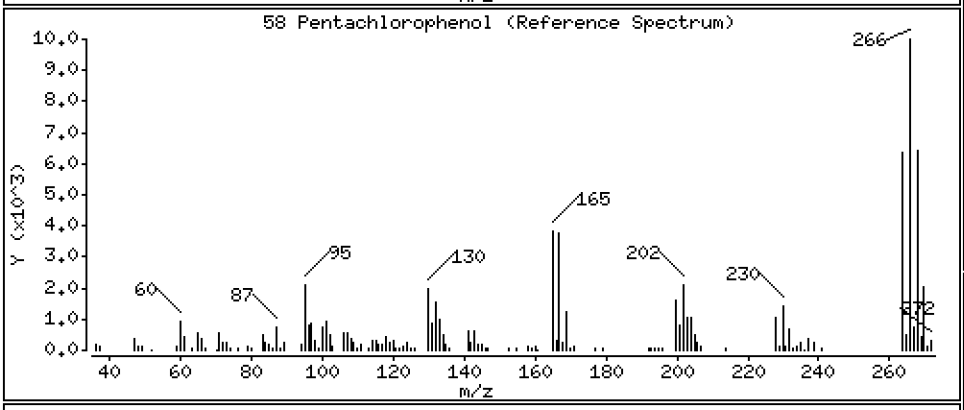
Column diameter: 0.25

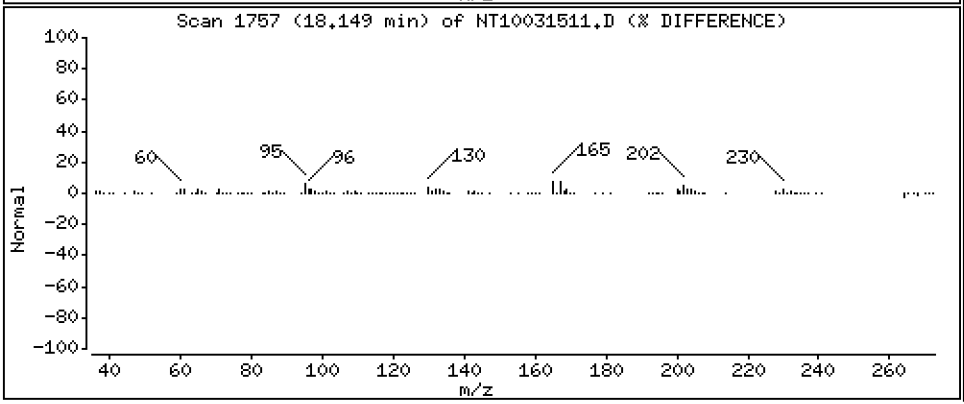
58 Pentachlorophenol

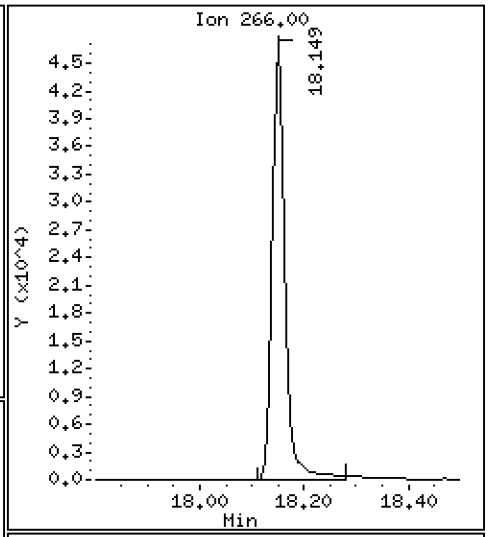
Concentration: 4.057 ug/mL

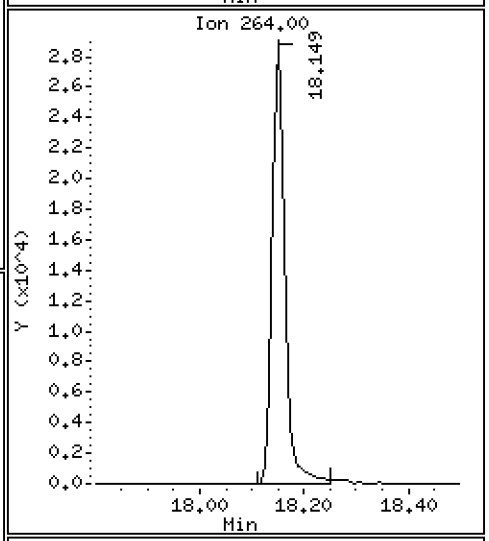


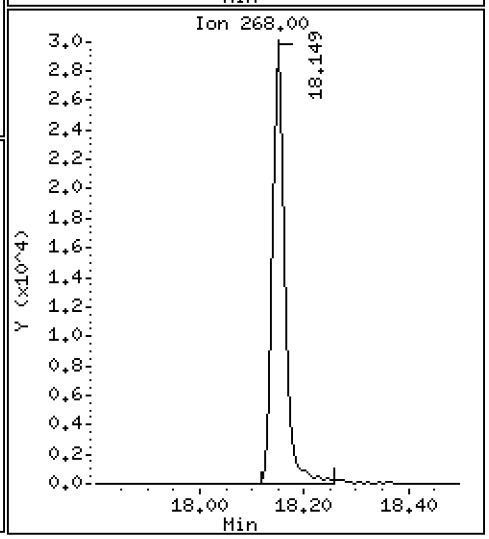












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

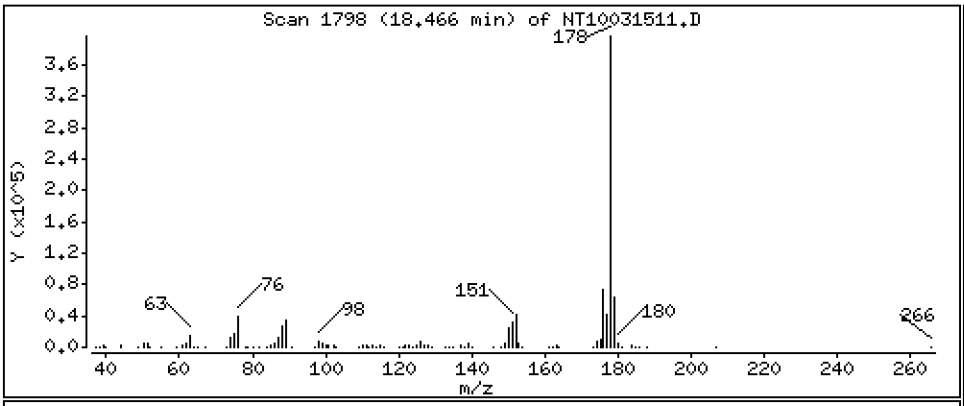
Operator: VTS

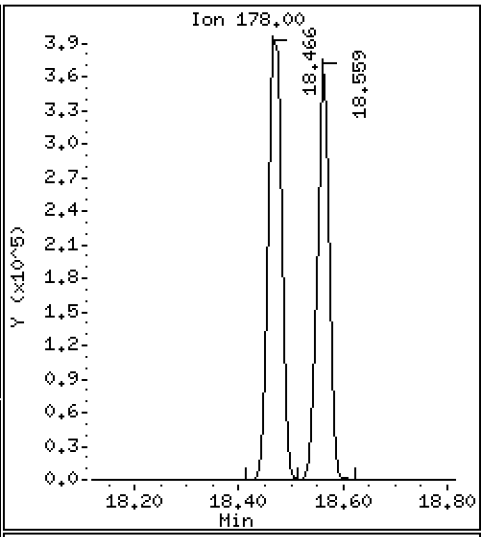
Column phase: ZB-5msi

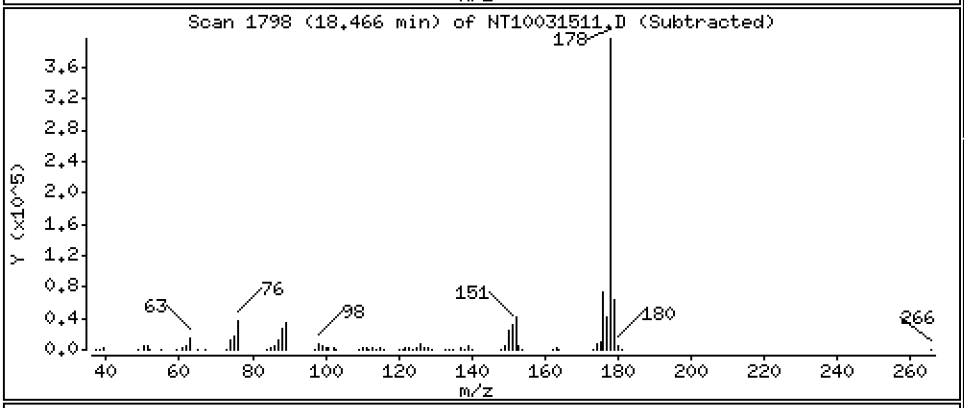
Column diameter: 0.25

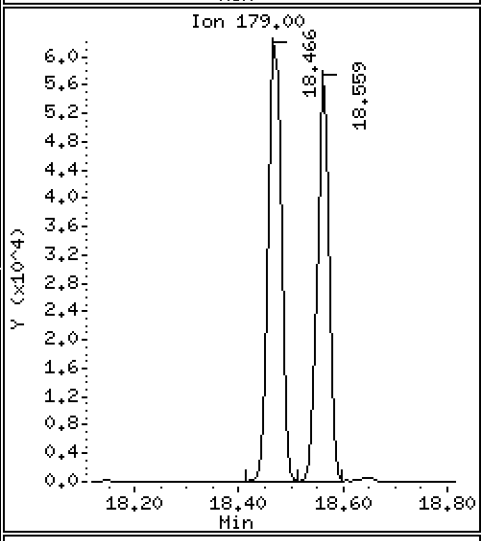
60 Phenanthrene

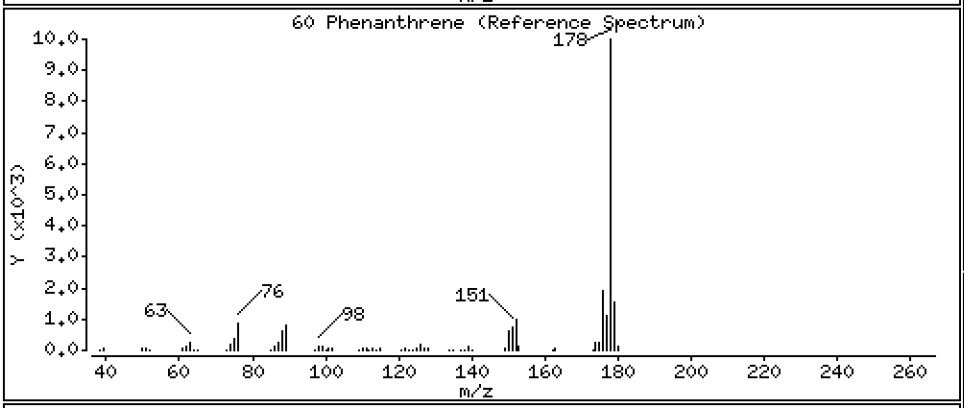
Concentration: 4.602 ug/mL

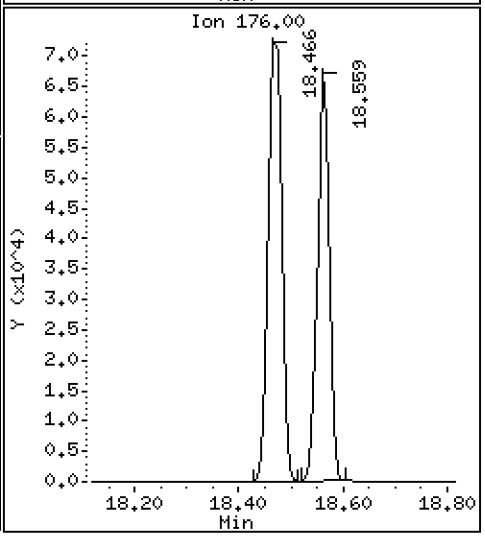


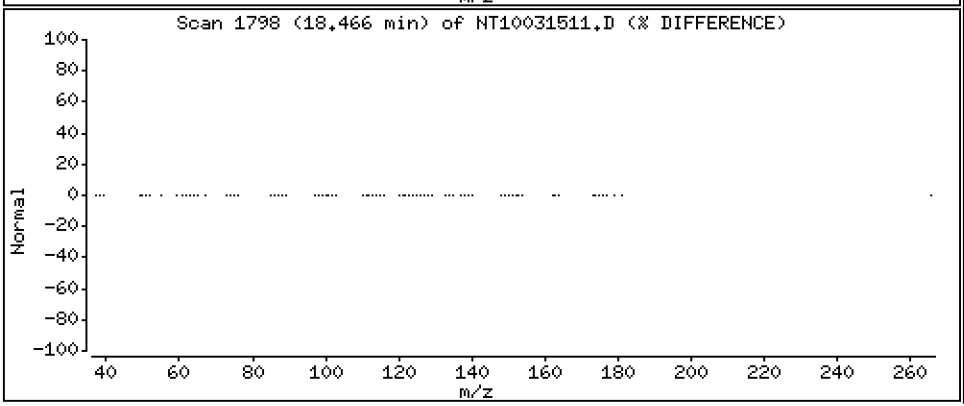












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

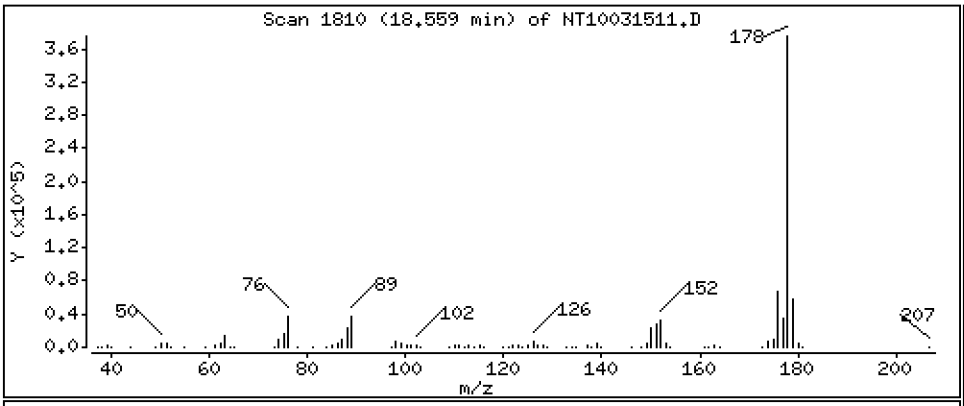
Operator: VTS

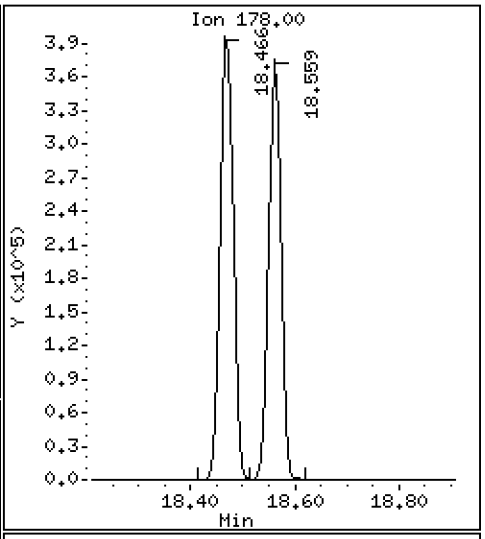
Column phase: ZB-5msi

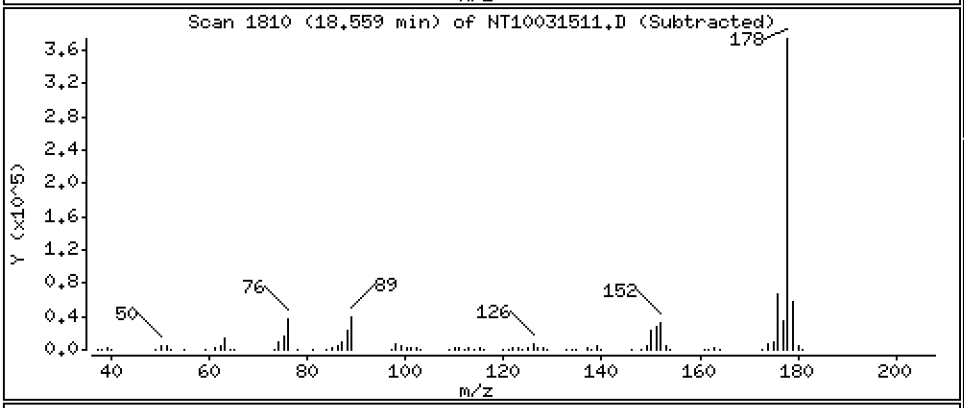
Column diameter: 0.25

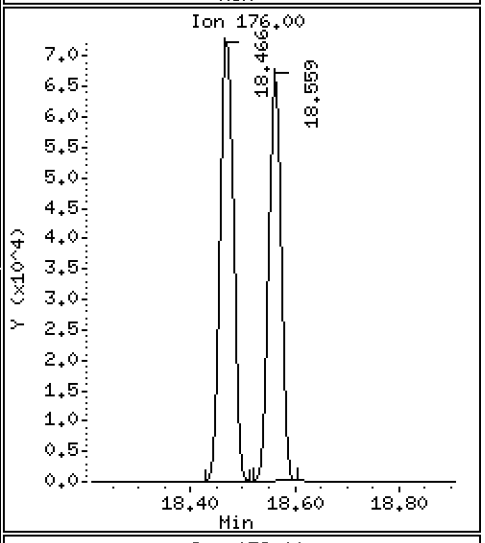
61 Anthracene

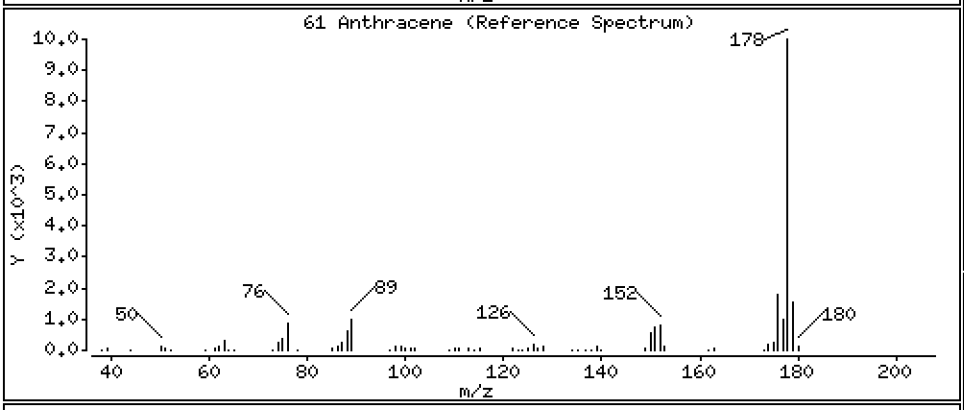
Concentration: 4.167 ug/mL

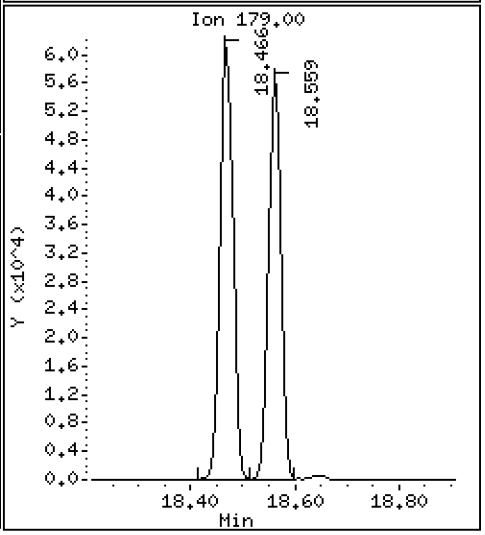


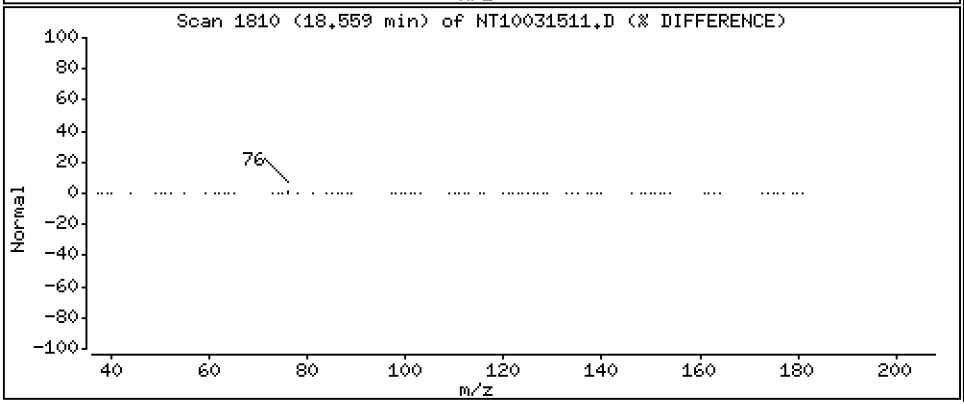












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

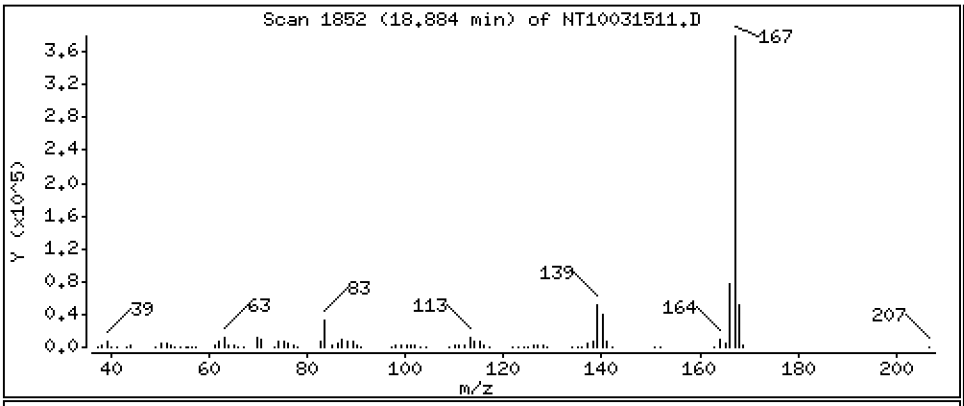
Operator: VTS

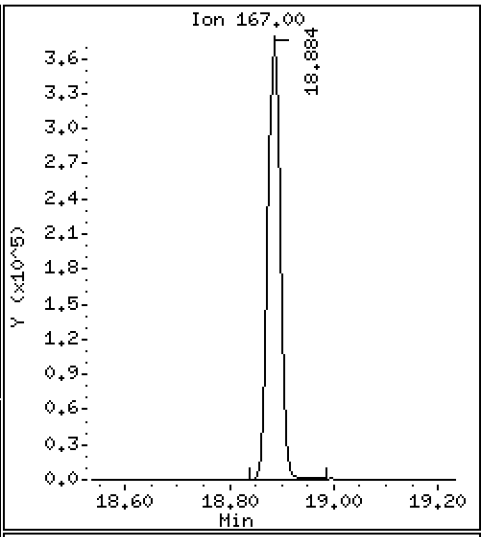
Column phase: ZB-5msi

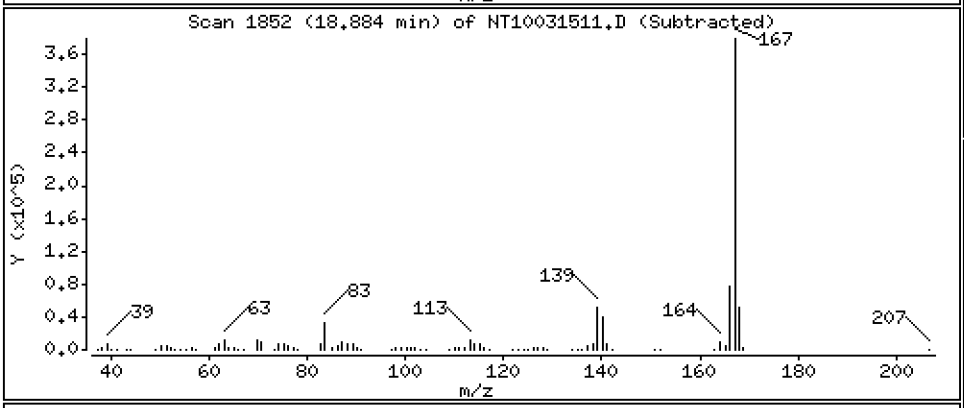
Column diameter: 0.25

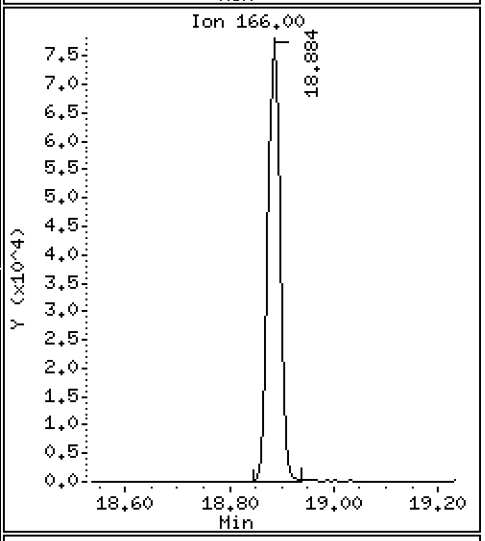
62 Carbazole

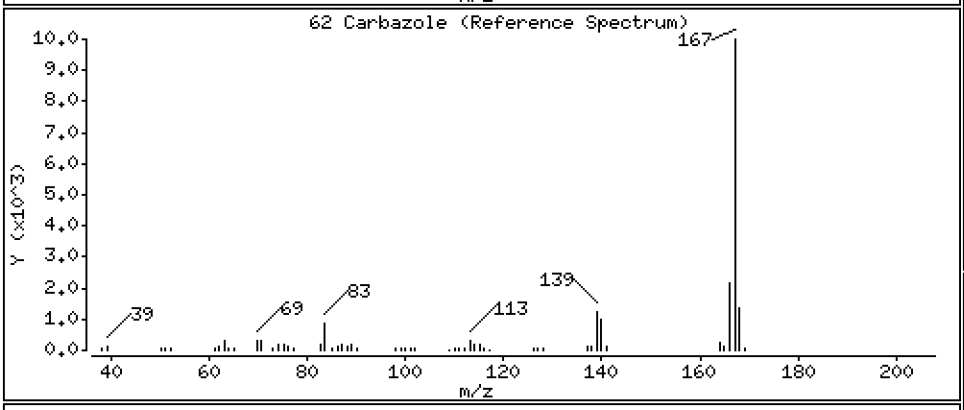
Concentration: 4.730 ug/mL

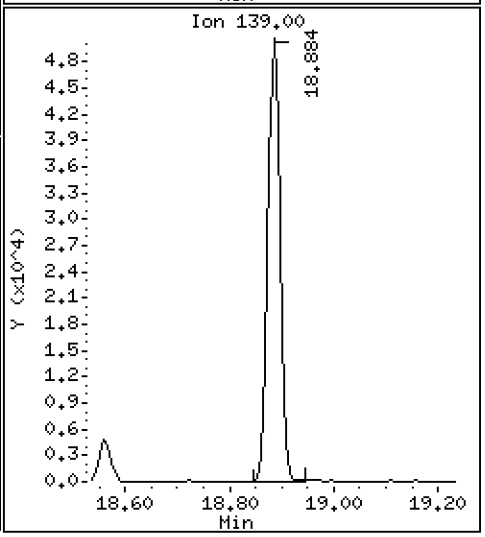


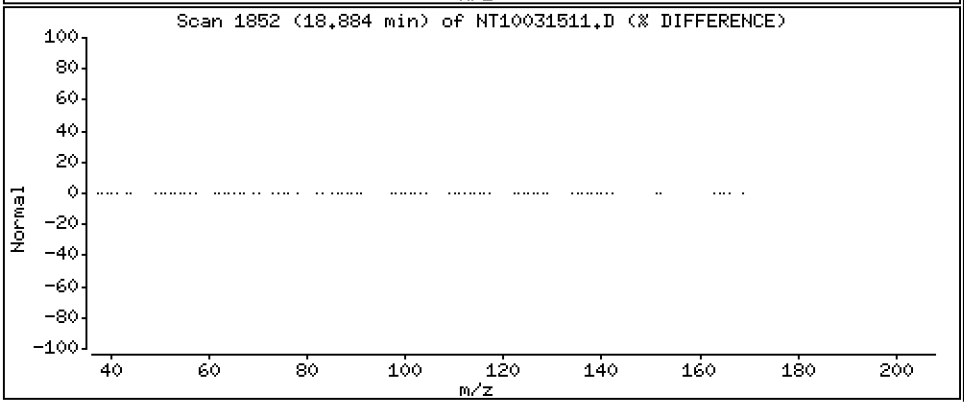












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

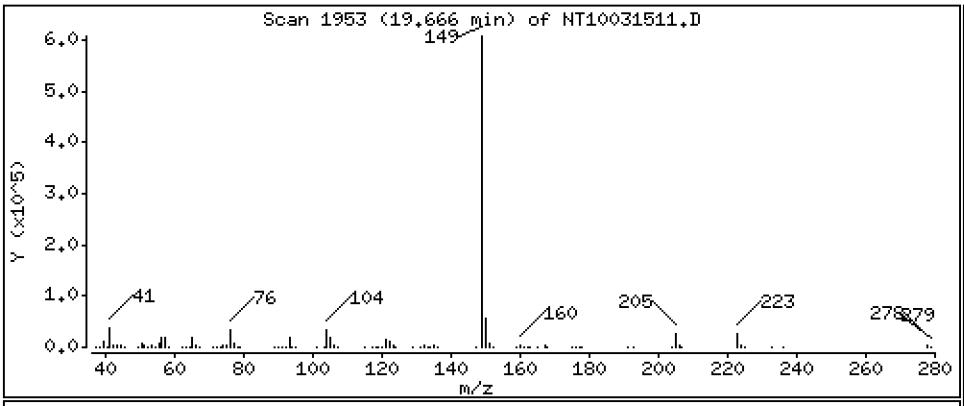
Operator: VTS

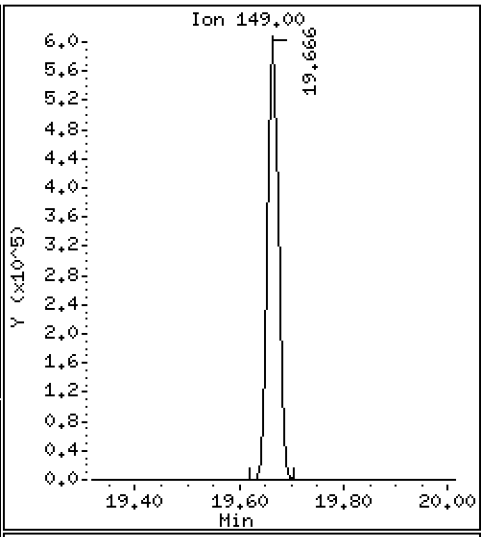
Column phase: ZB-5msi

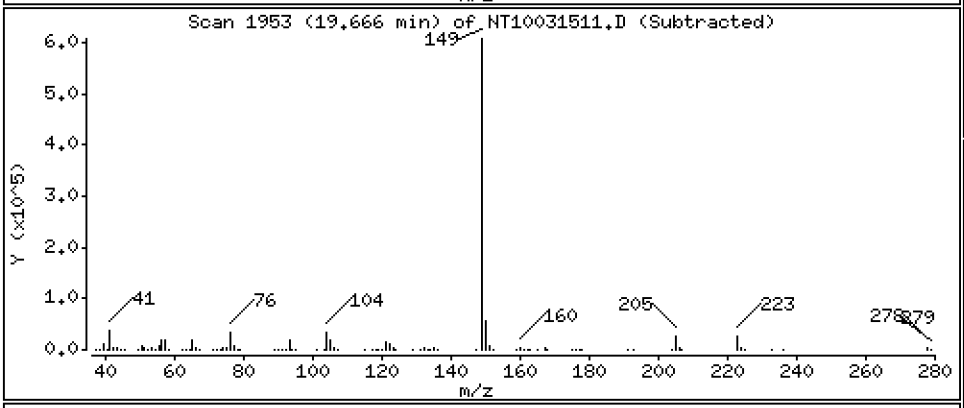
Column diameter: 0.25

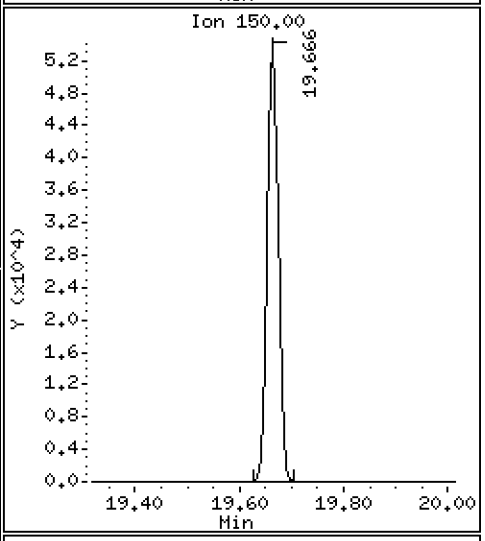
63 Di-n-butylphthalate

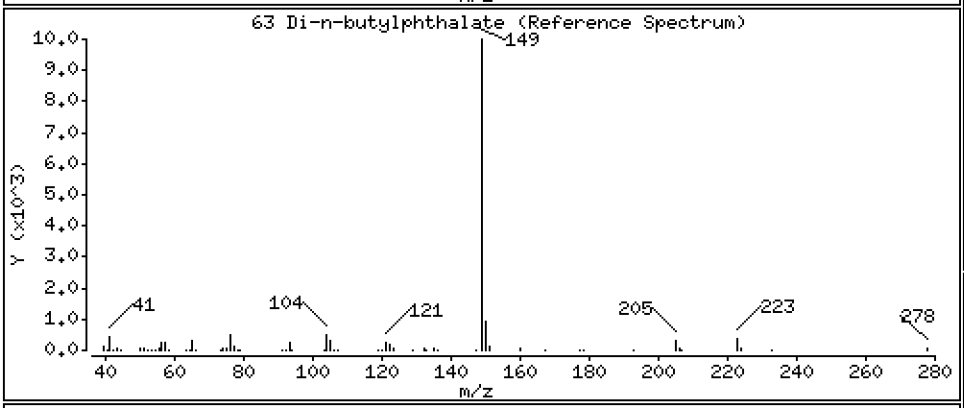
Concentration: 4.967 ug/mL

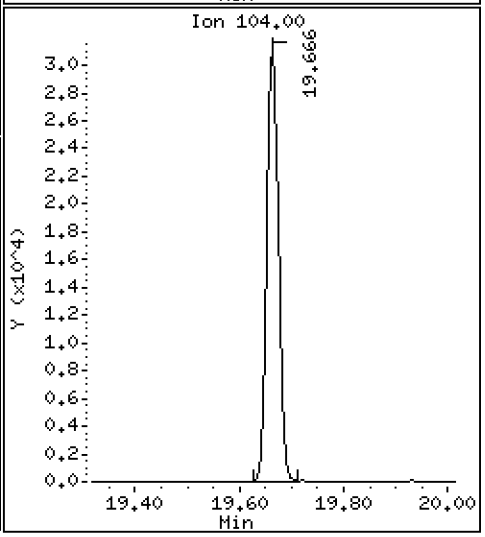


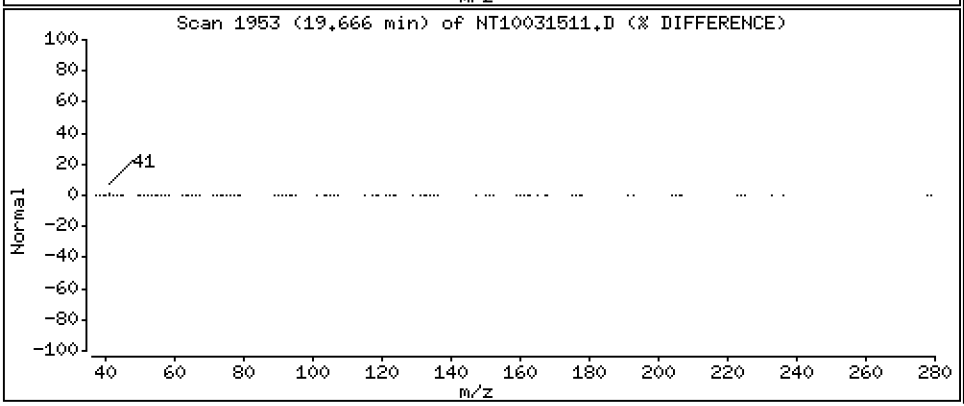












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

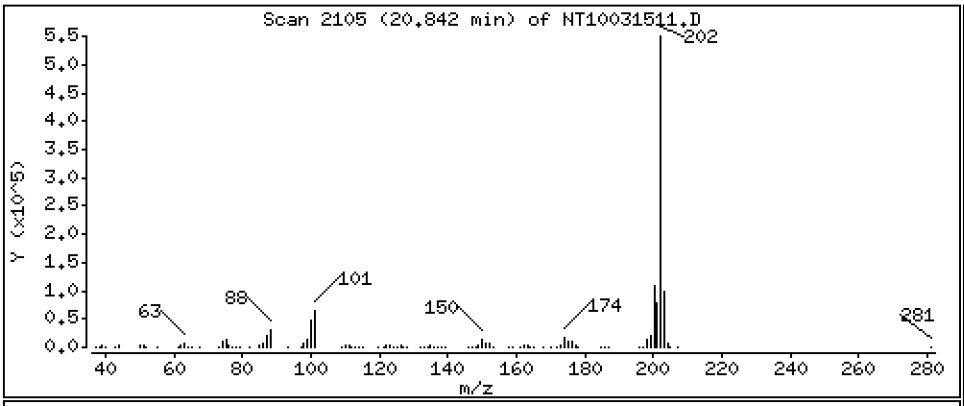
Operator: VTS

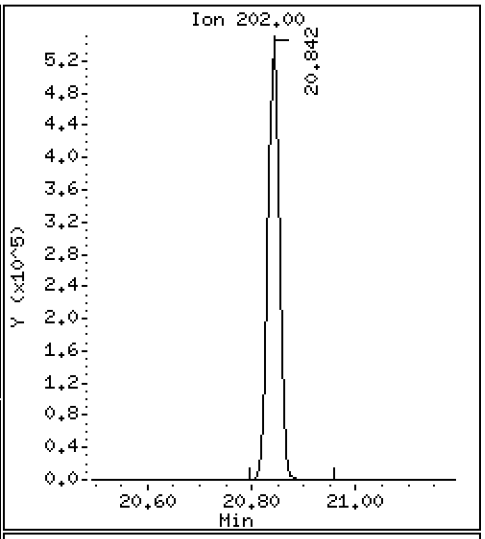
Column phase: ZB-5msi

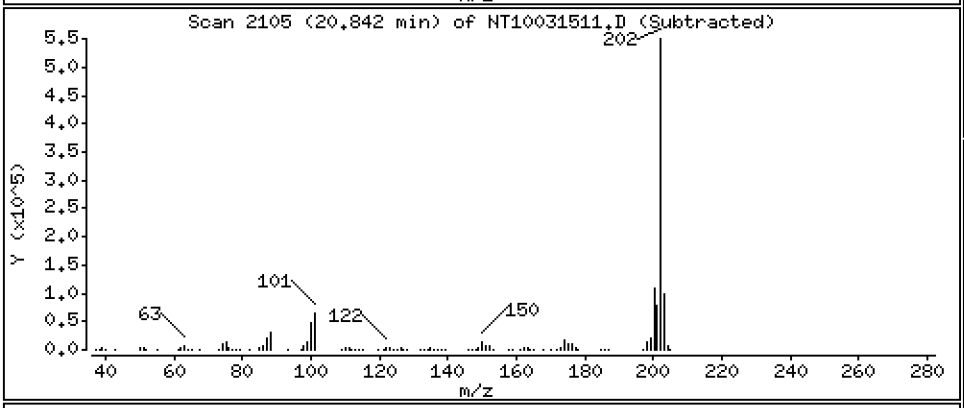
Column diameter: 0.25

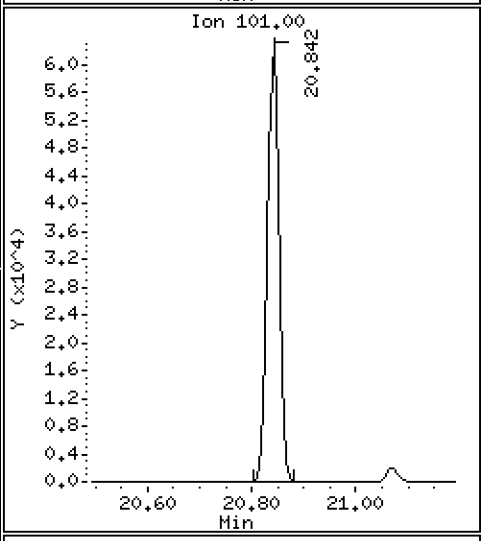
64 Fluoranthene

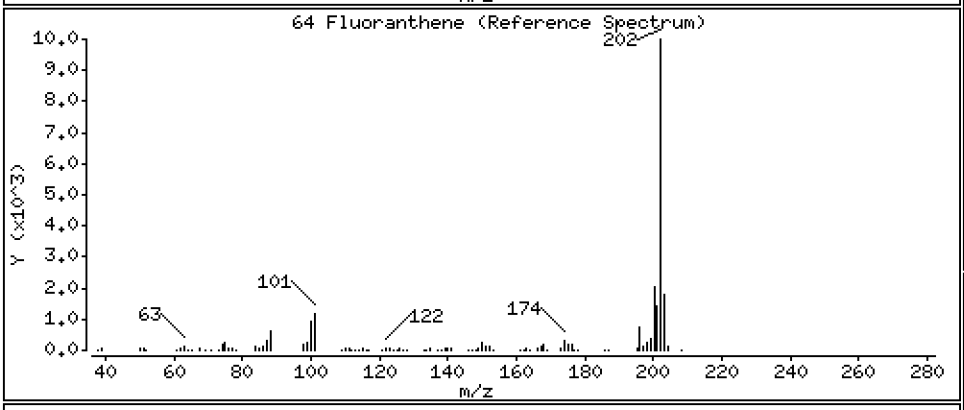
Concentration: 4.472 ug/mL

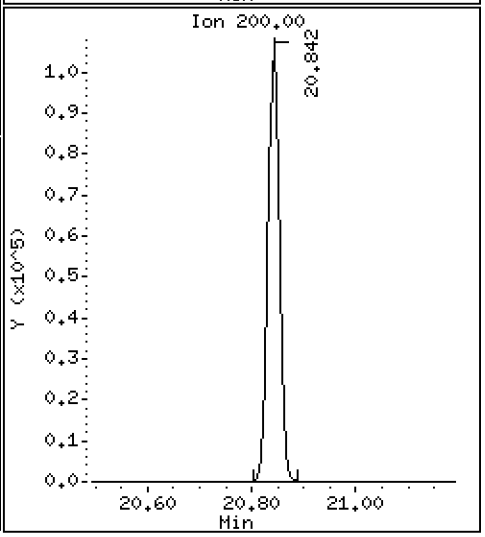


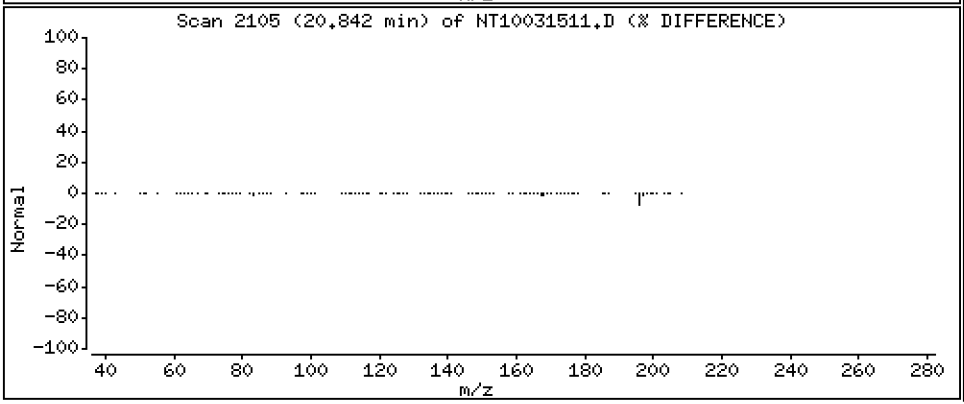












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

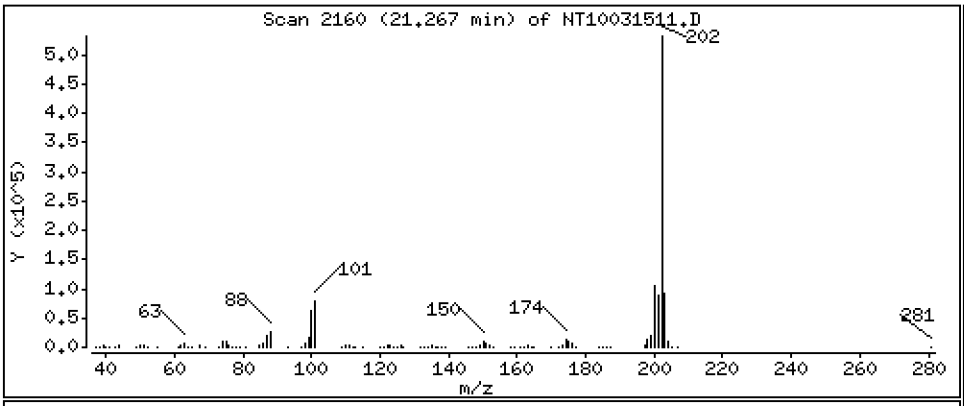
Operator: VTS

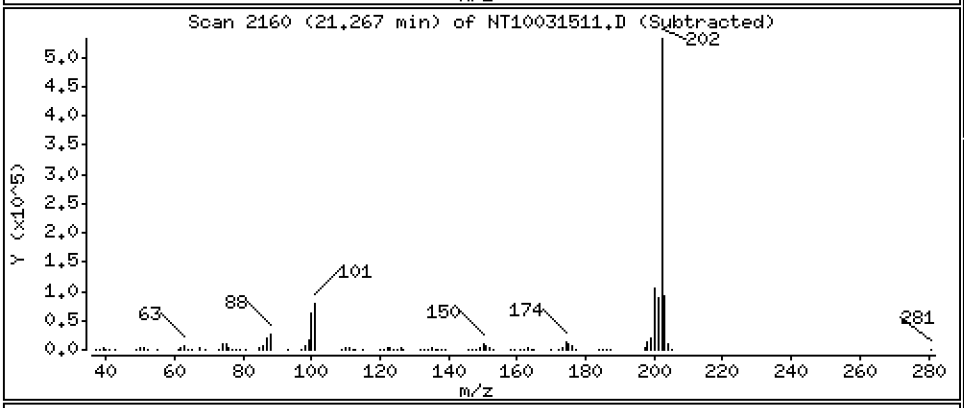
Column phase: ZB-5msi

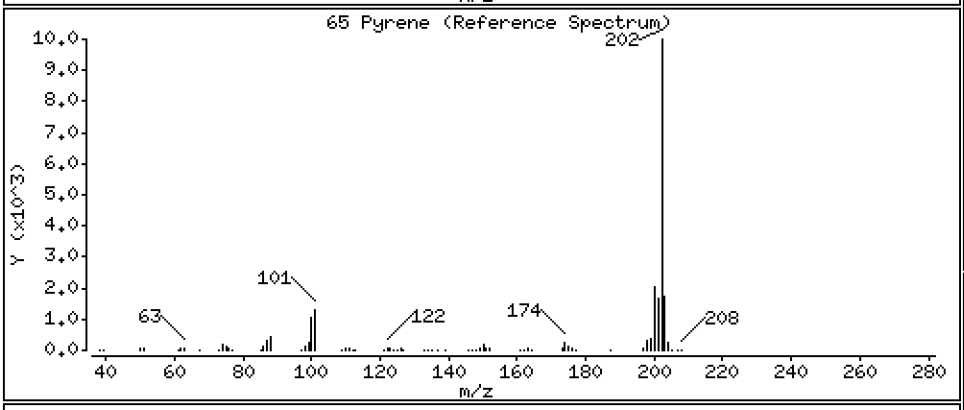
Column diameter: 0.25

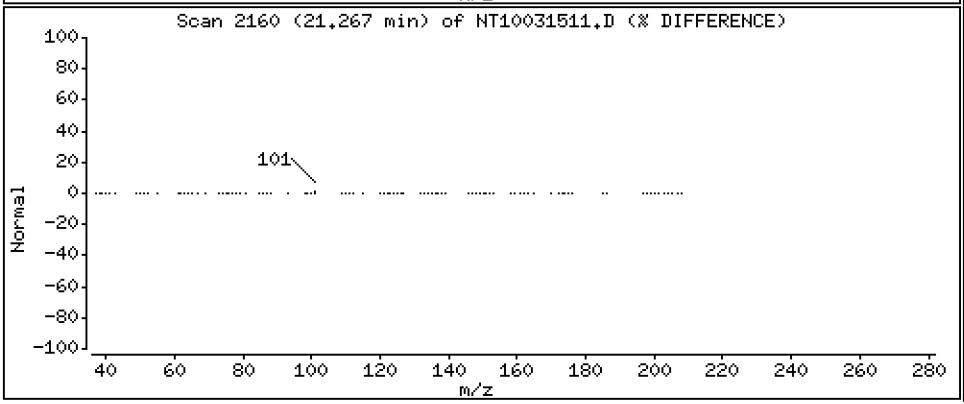
65 Pyrene

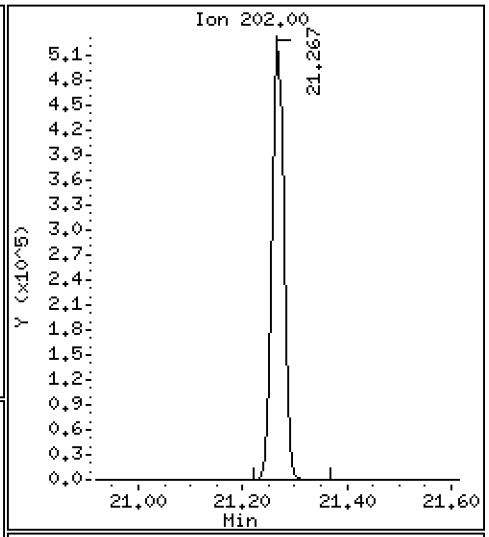
Concentration: 4.339 ug/mL

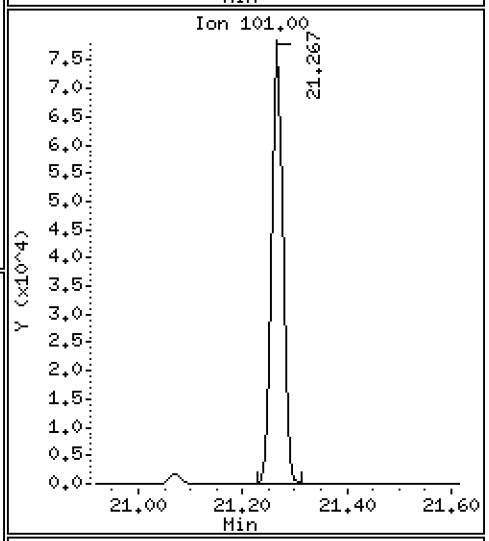


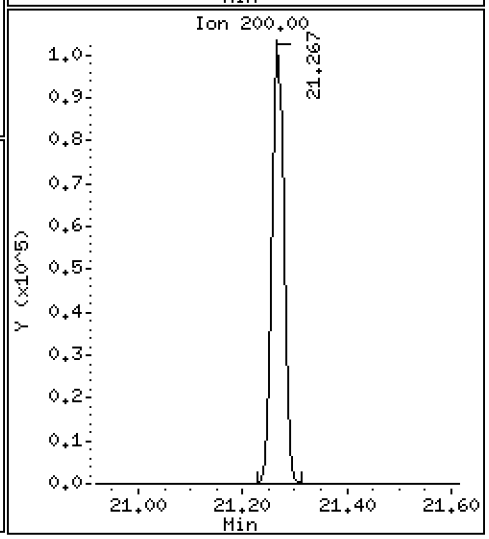












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

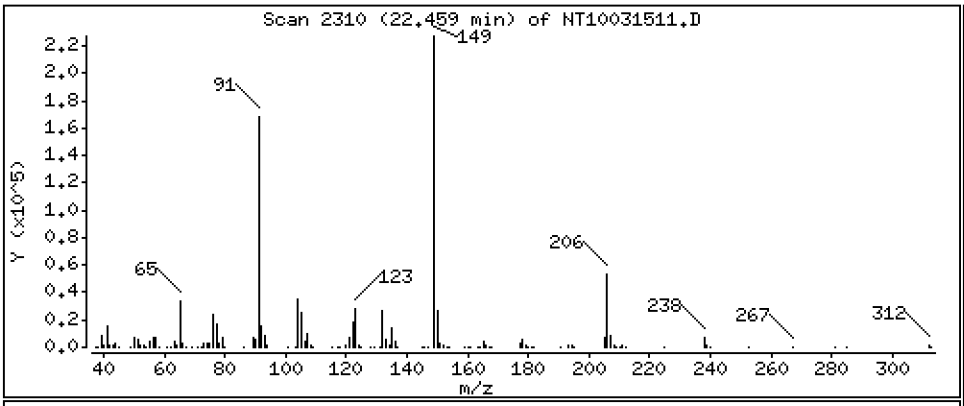
Operator: VTS

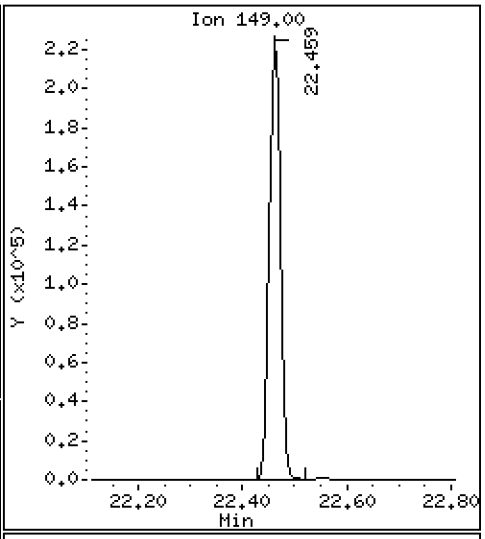
Column phase: ZB-5msi

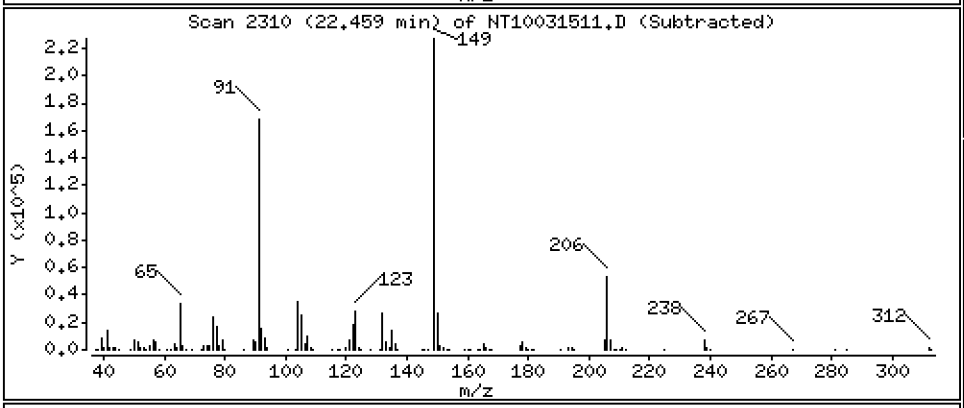
Column diameter: 0.25

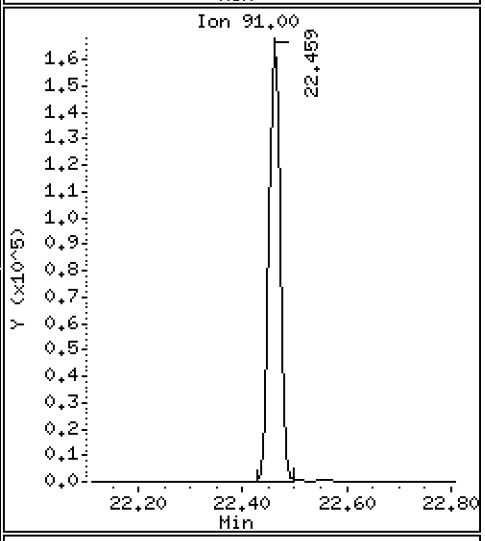
67 Butylbenzylphthalate

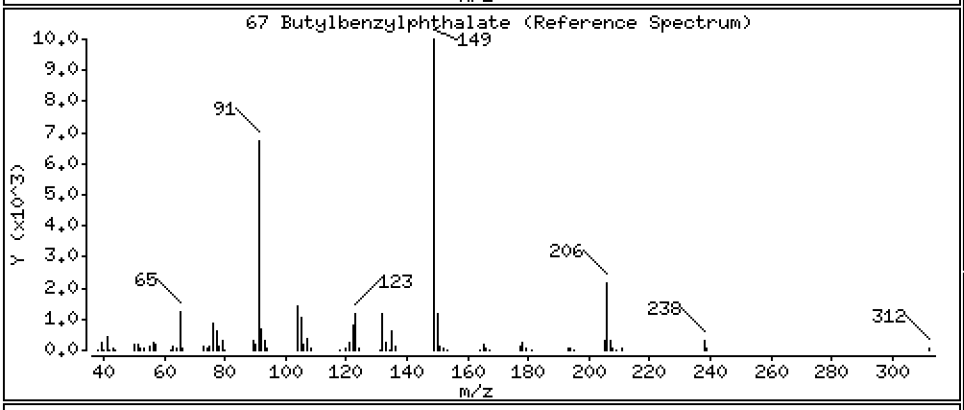
Concentration: 4.834 ug/mL

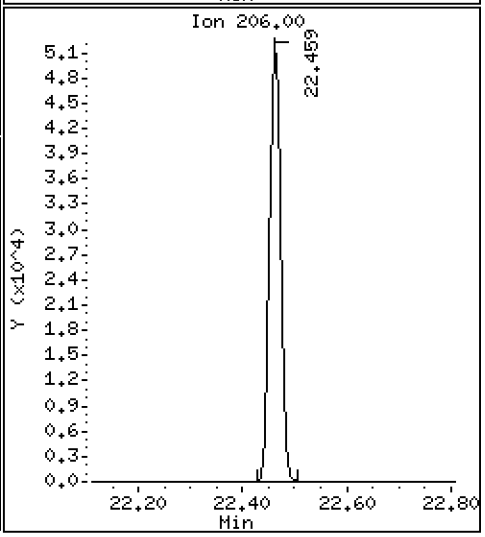


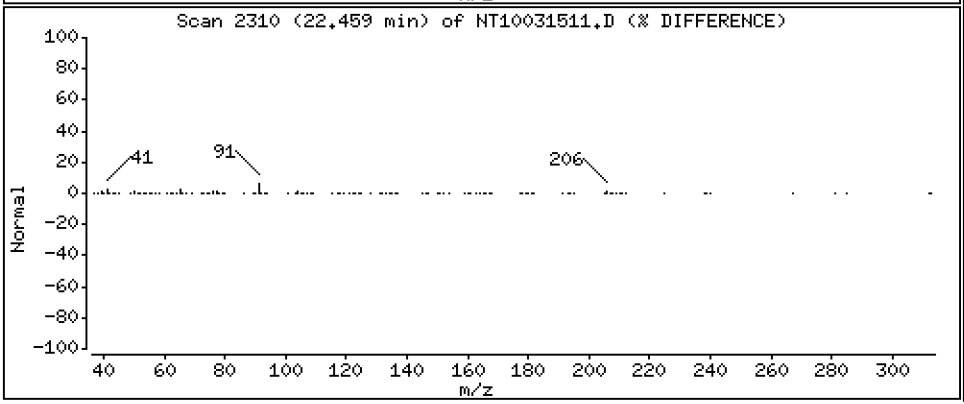












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

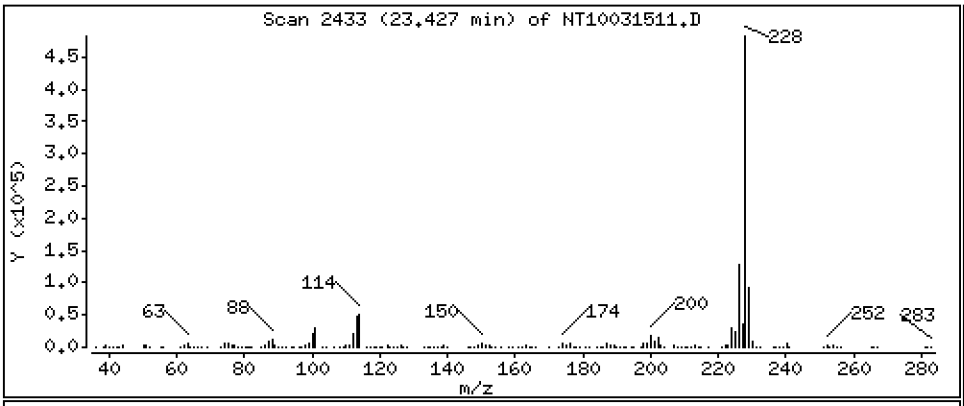
Operator: VTS

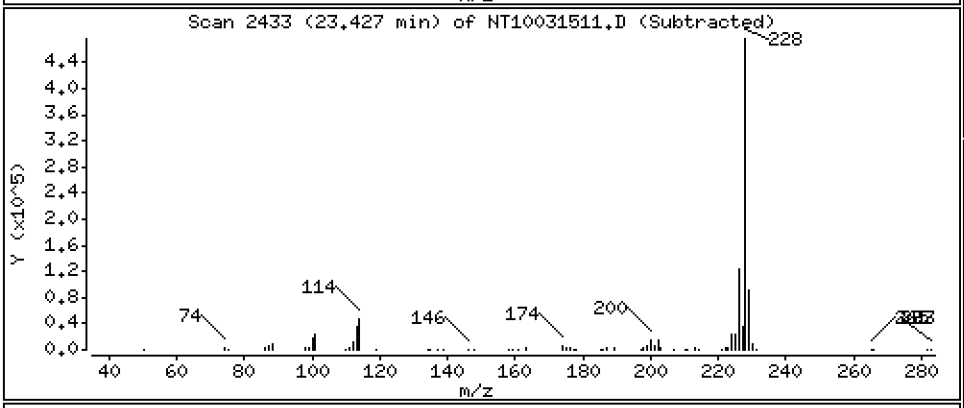
Column phase: ZB-5msi

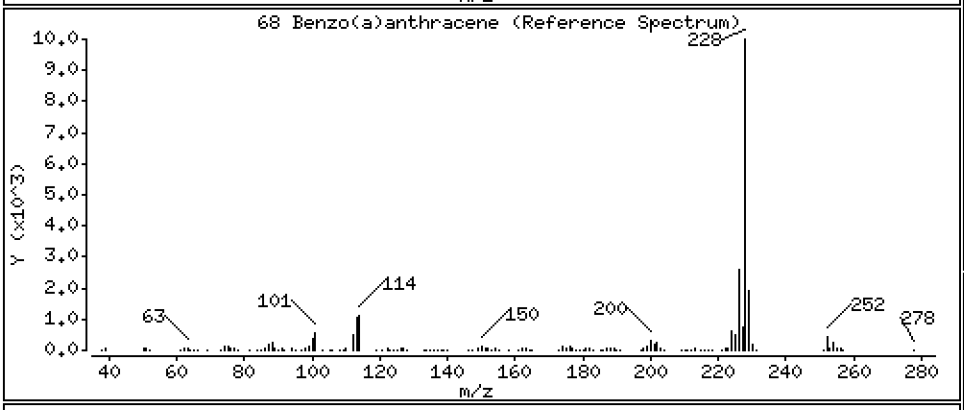
Column diameter: 0.25

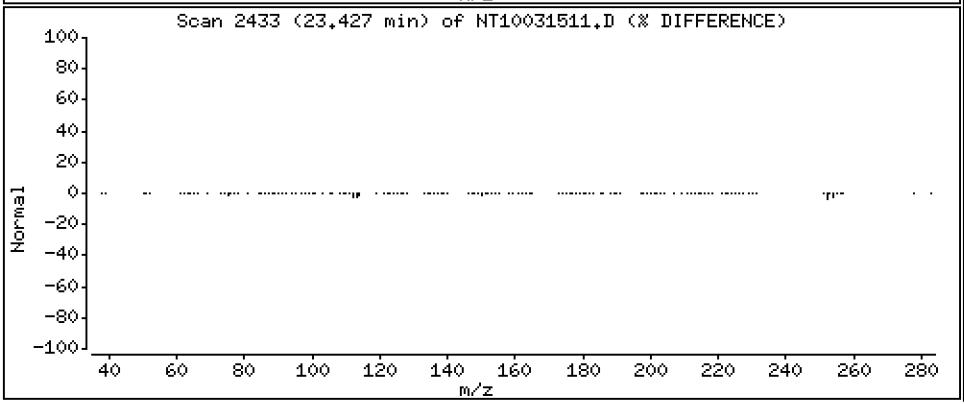
68 Benzo(a)anthracene

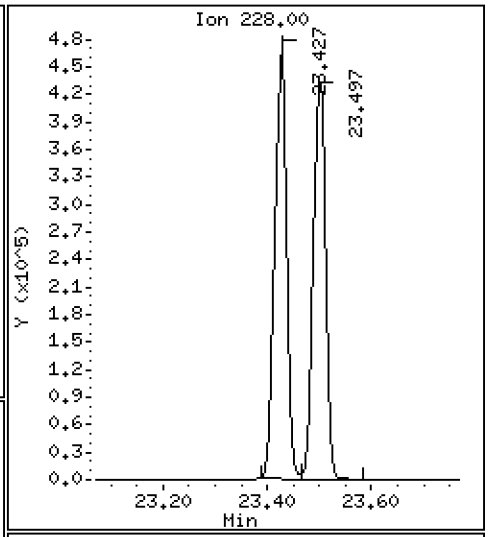
Concentration: 4.647 ug/mL

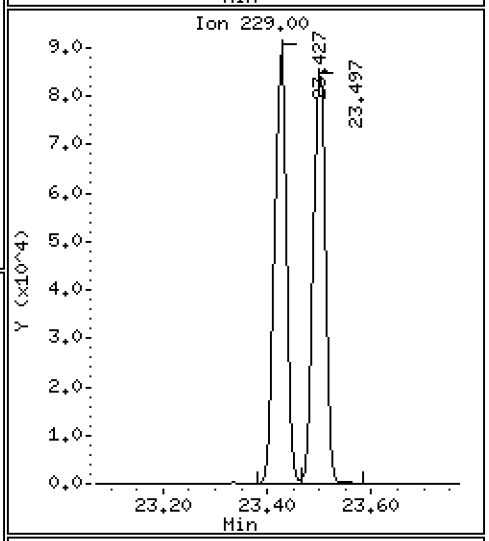


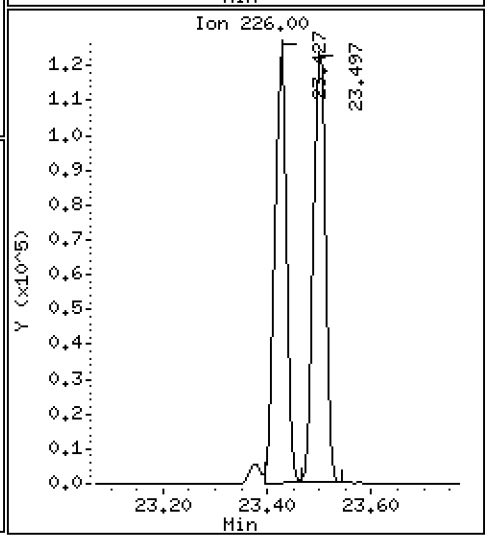












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

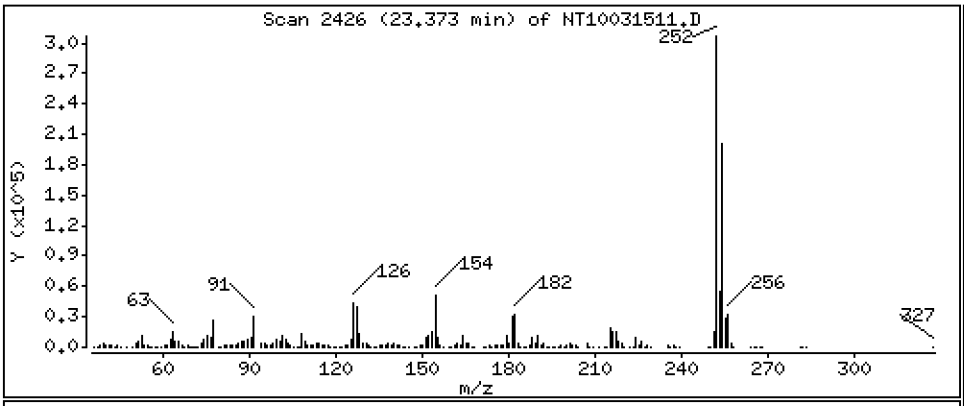
Operator: VTS

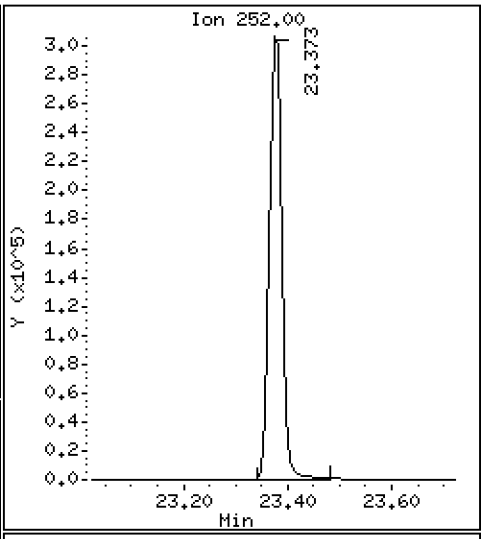
Column phase: ZB-5msi

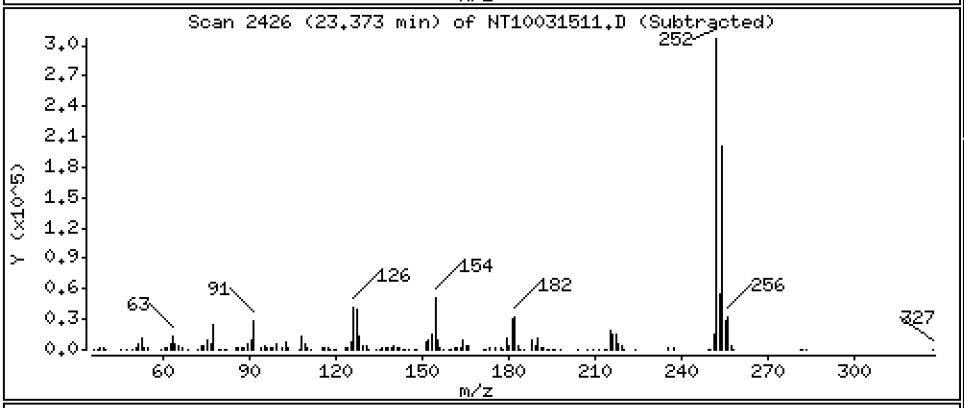
Column diameter: 0.25

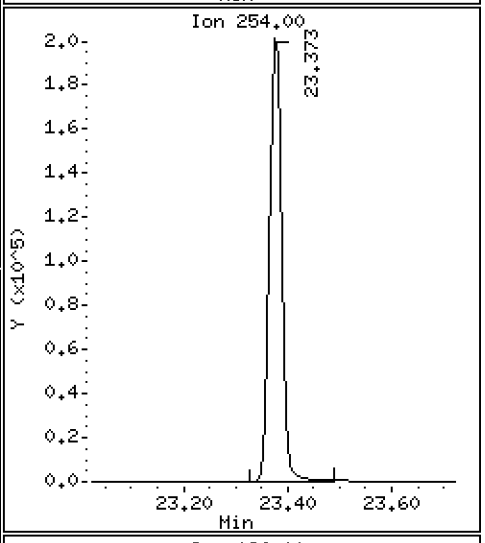
70 3,3'-Dichlorobenzidine

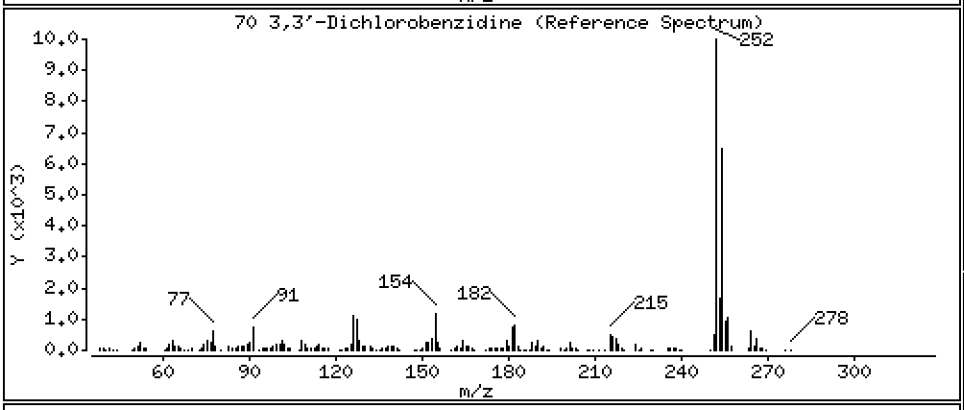
Concentration: 9.817 ug/mL

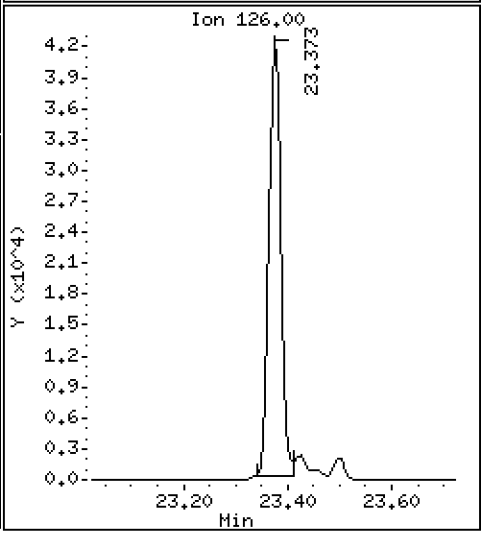


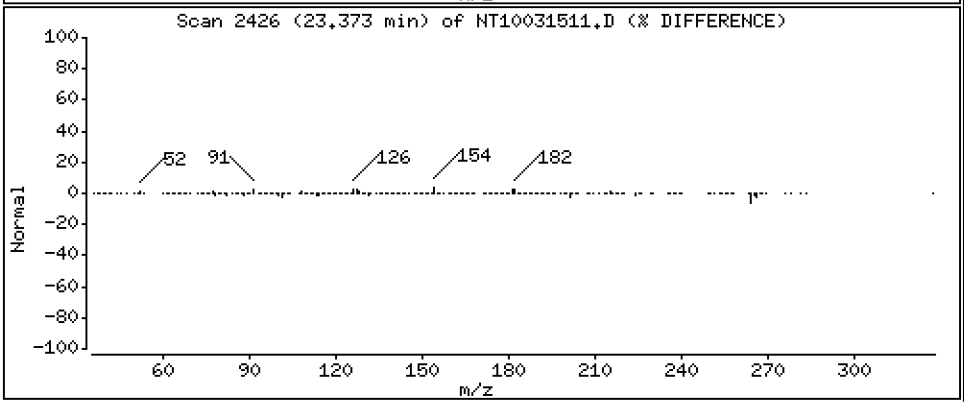












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

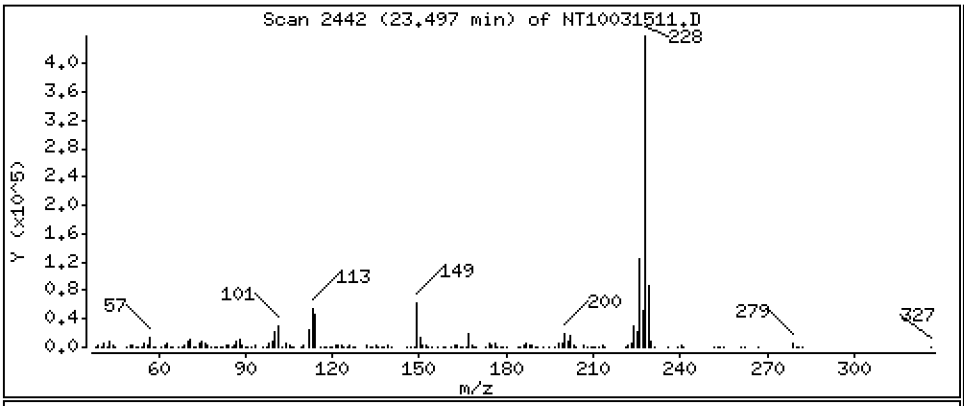
Operator: VTS

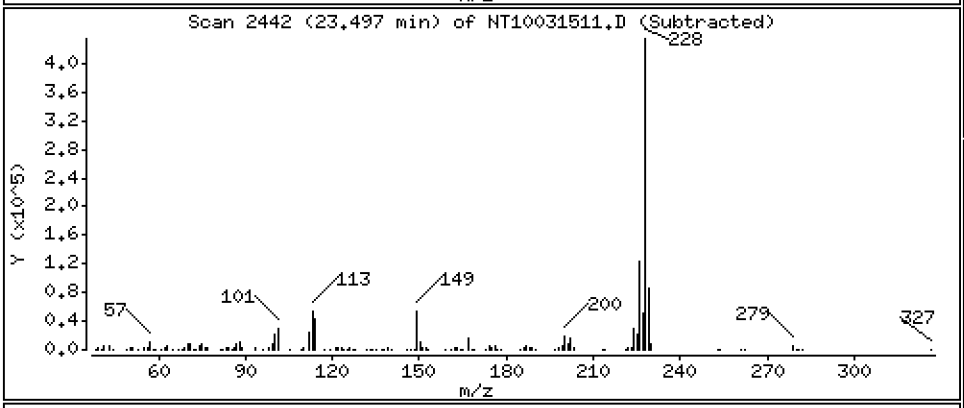
Column phase: ZB-5msi

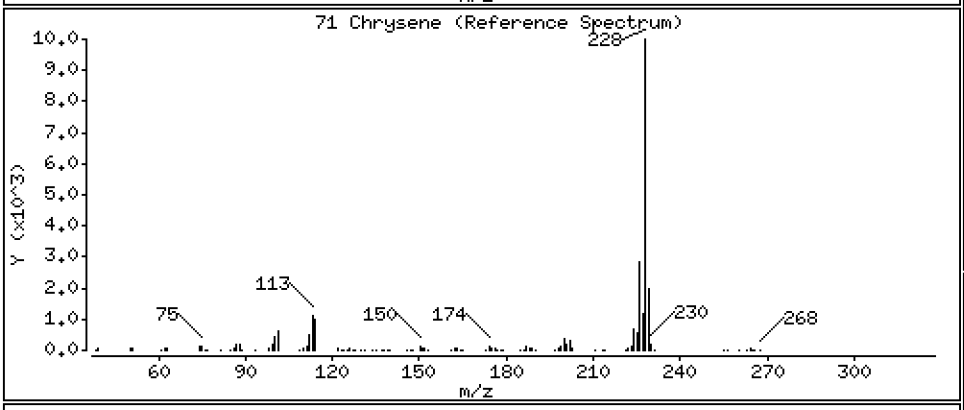
Column diameter: 0.25

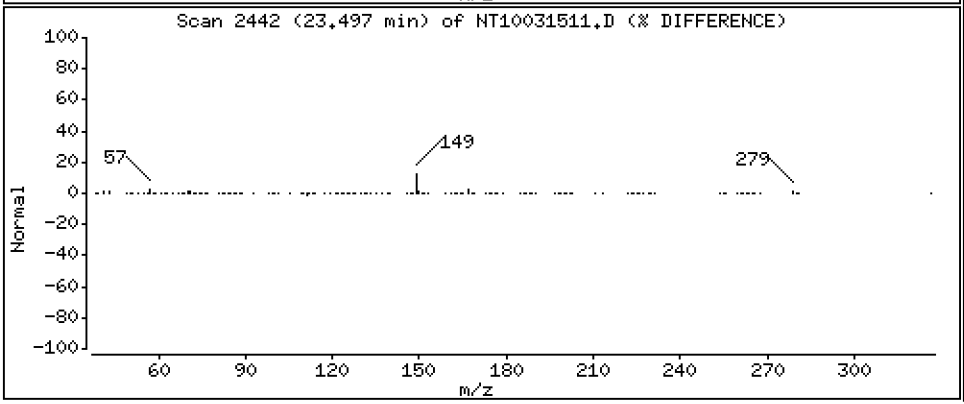
71 Chrysene

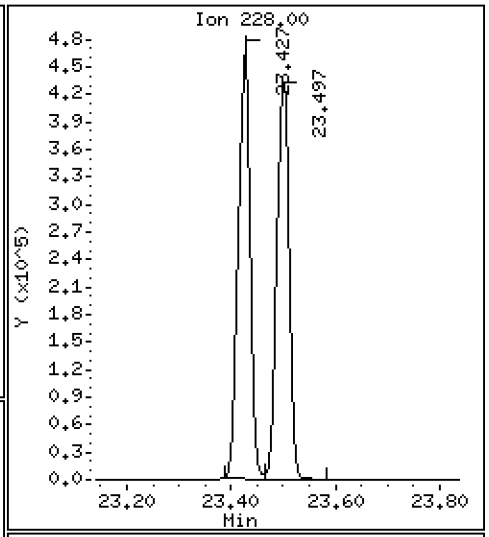
Concentration: 4.510 ug/mL

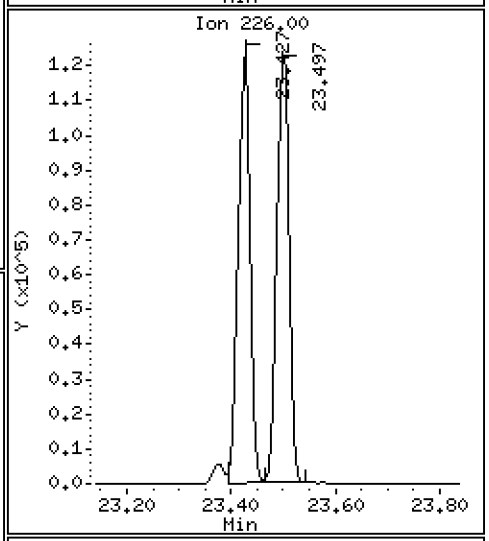


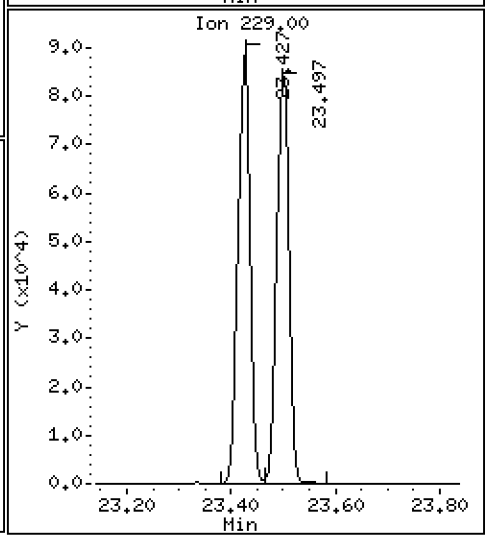












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

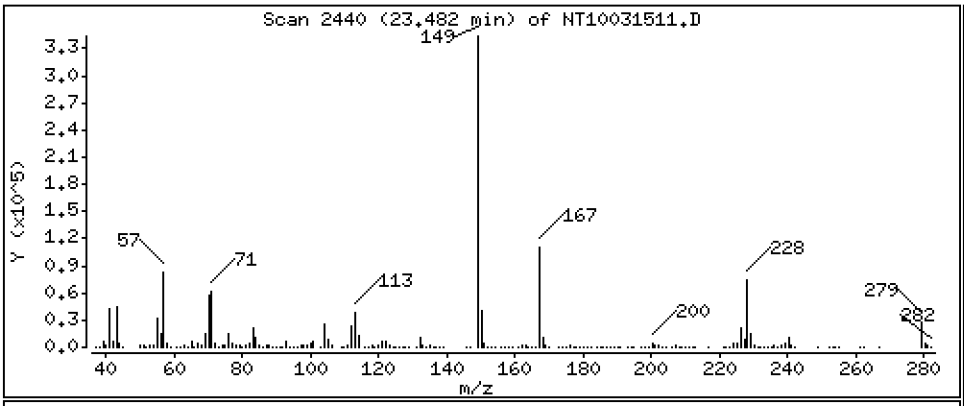
Operator: VTS

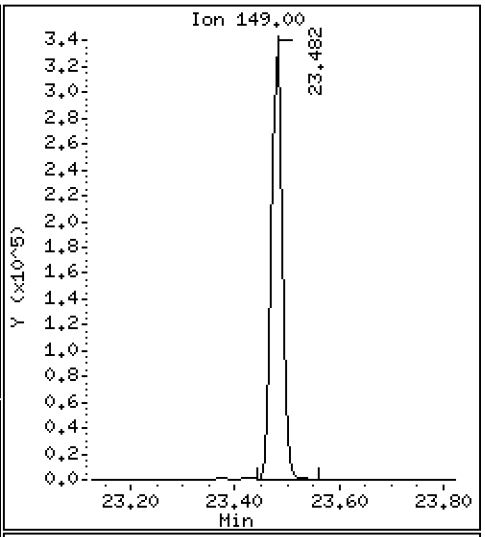
Column phase: ZB-5msi

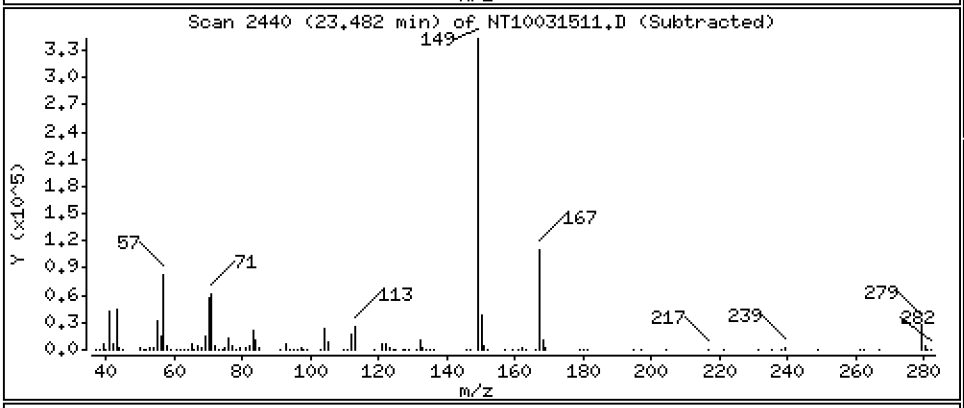
Column diameter: 0.25

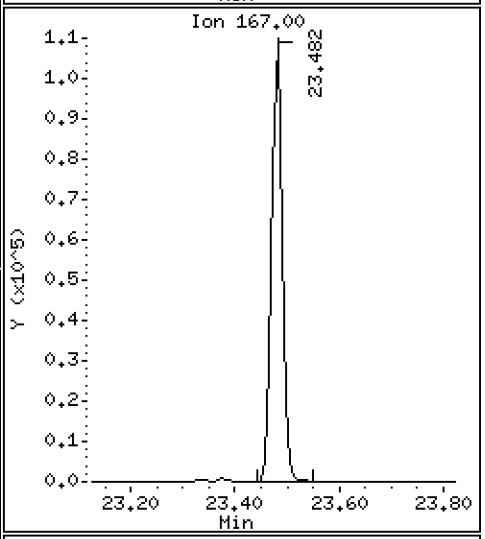
72 bis(2-Ethylhexyl)phthalate

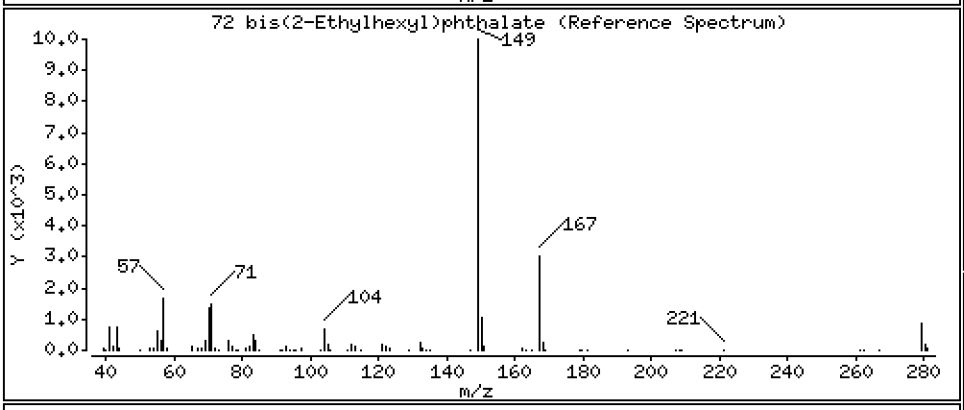
Concentration: 4.680 ug/mL

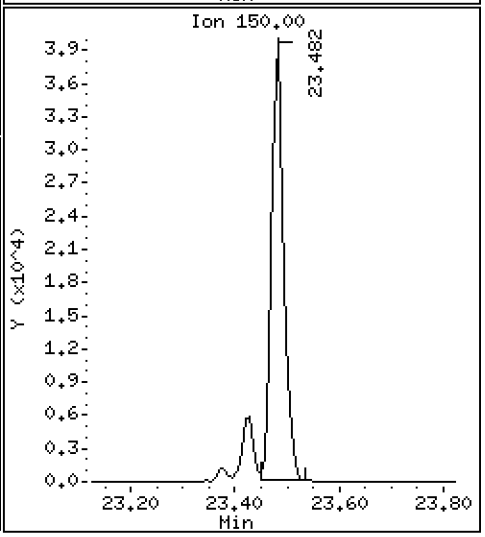


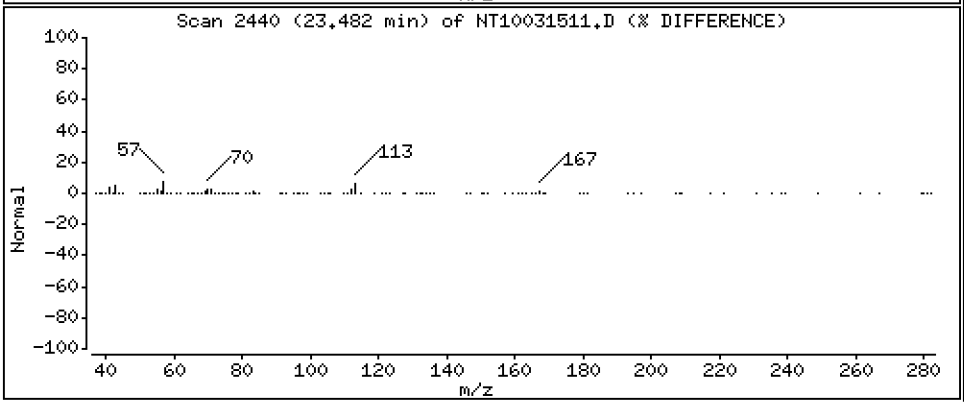












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

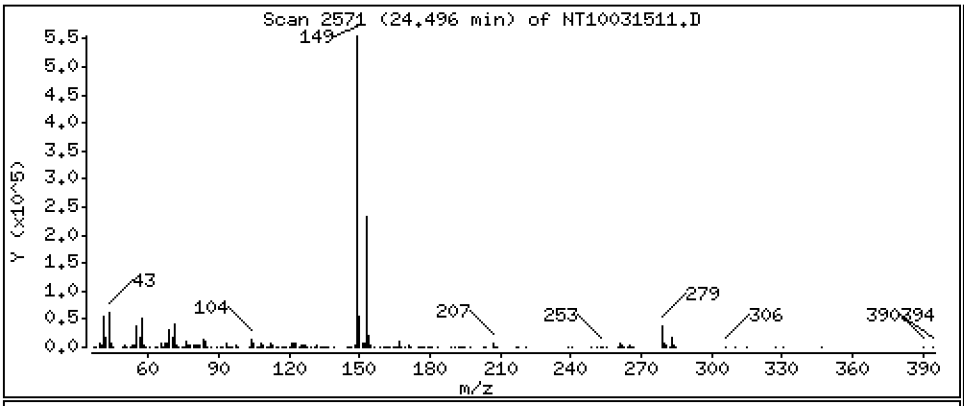
Operator: VTS

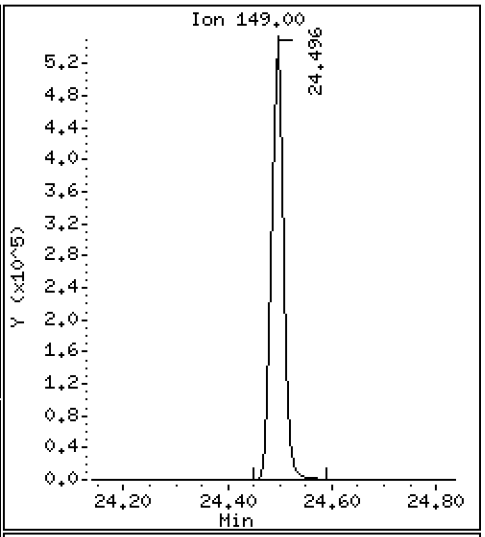
Column phase: ZB-5msi

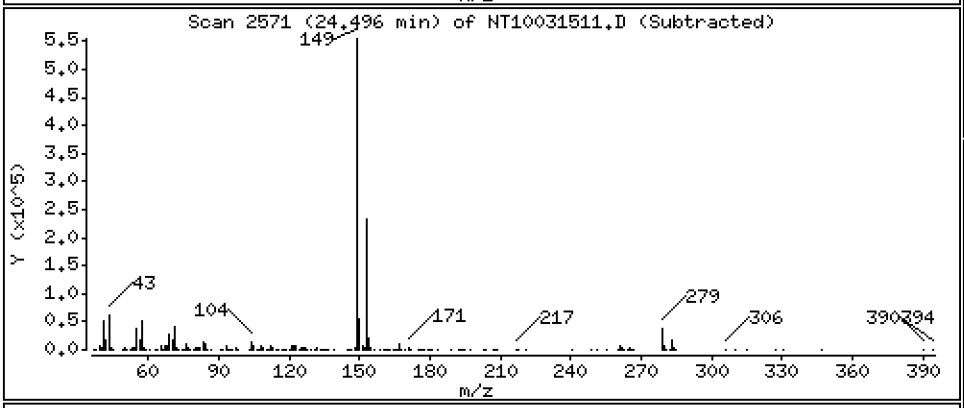
Column diameter: 0.25

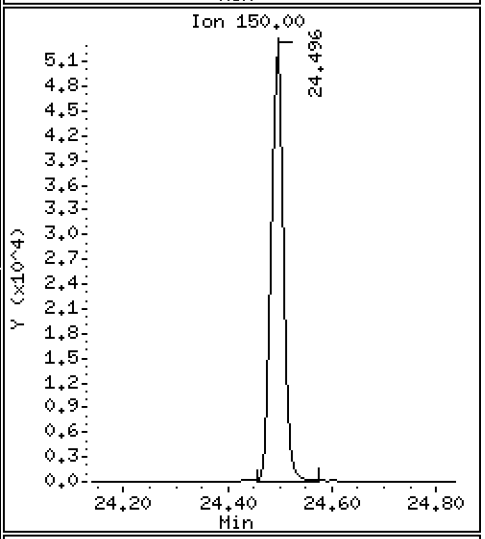
73 Di-n-octylphthalate

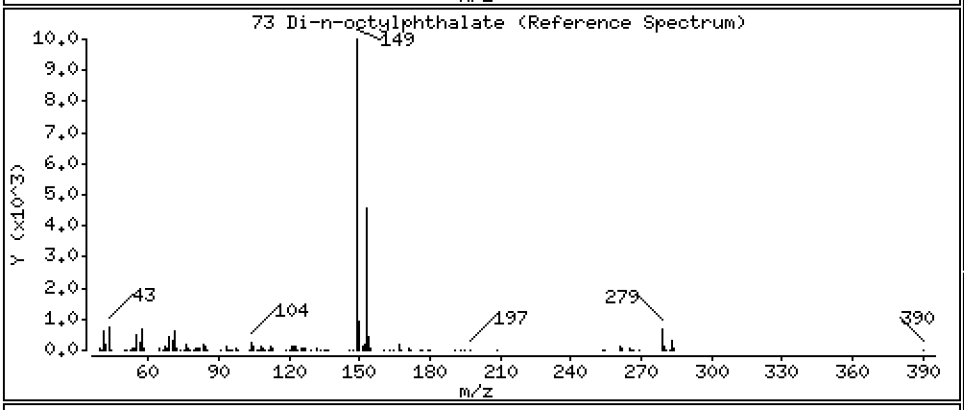
Concentration: 4.947 ug/mL

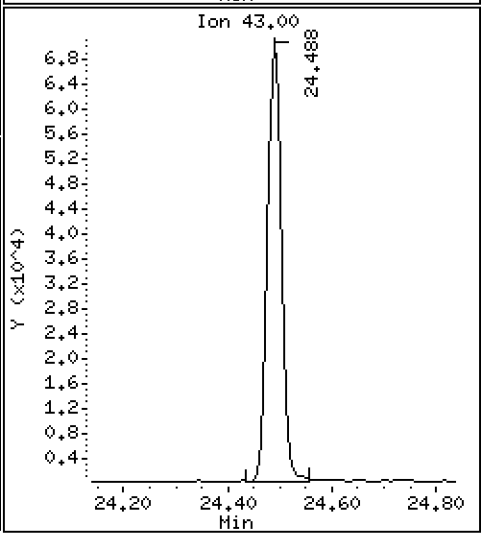


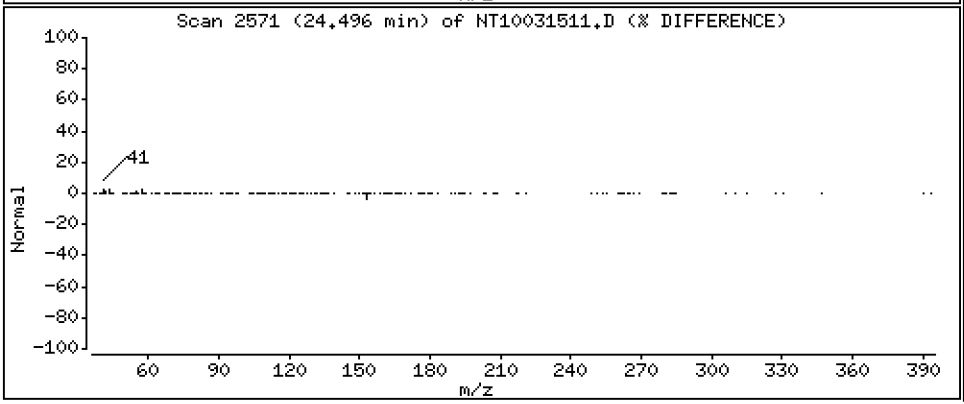












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

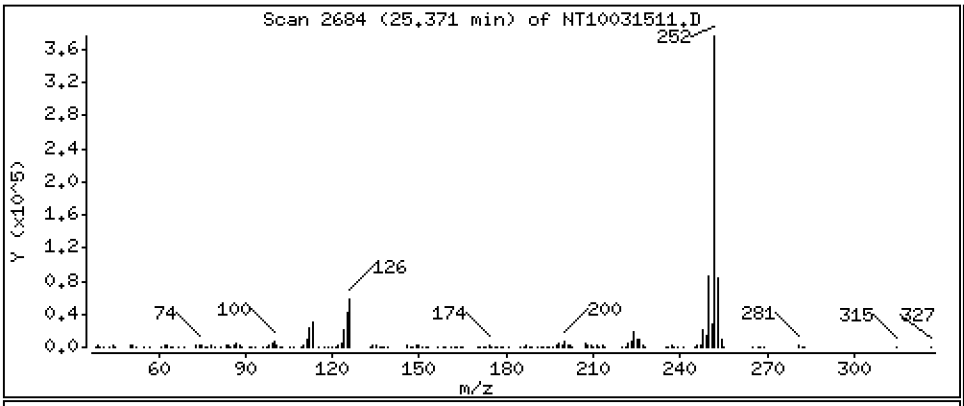
Operator: VTS

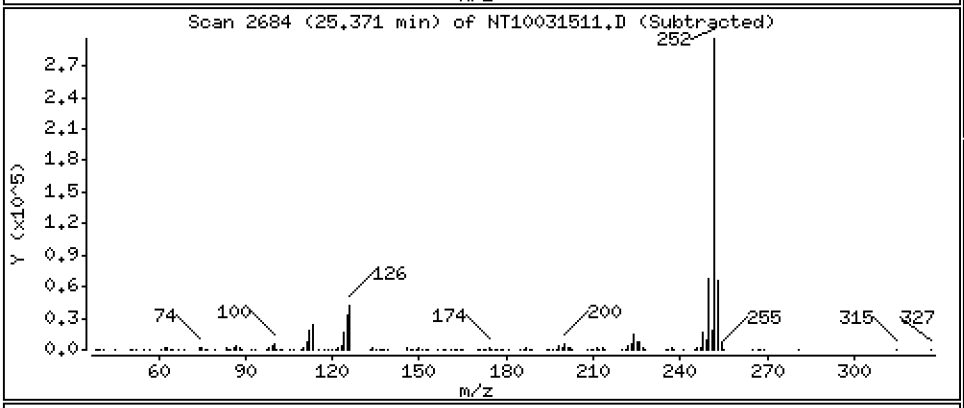
Column phase: ZB-5msi

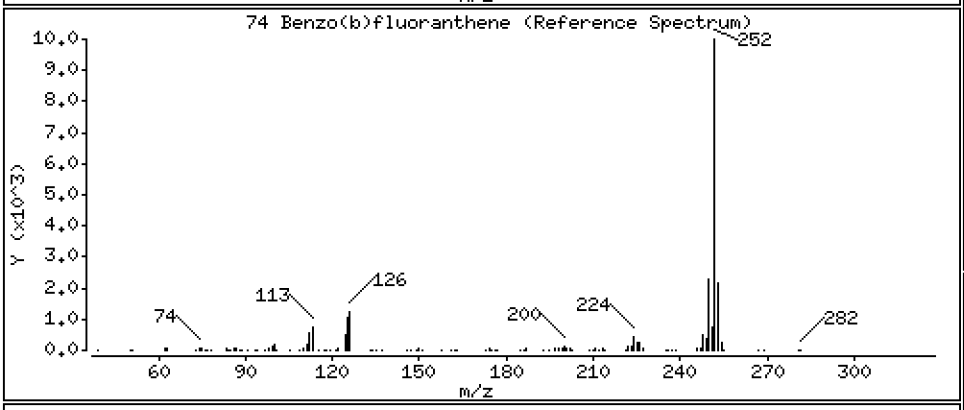
Column diameter: 0.25

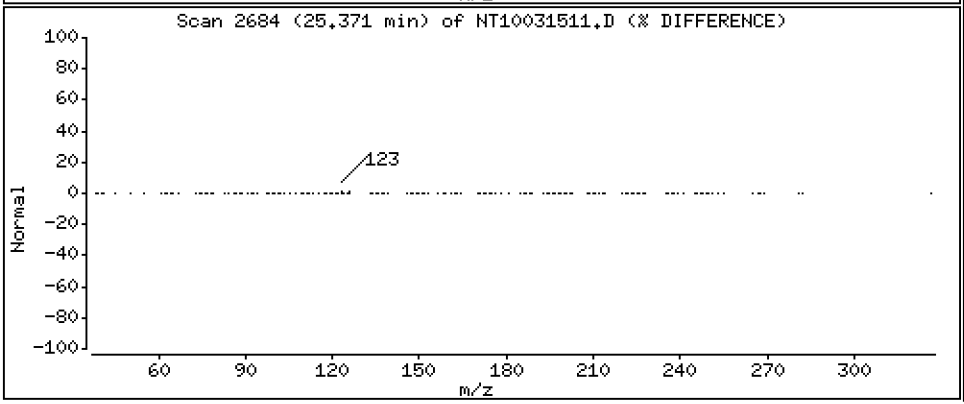
74 Benzo(b)fluoranthene

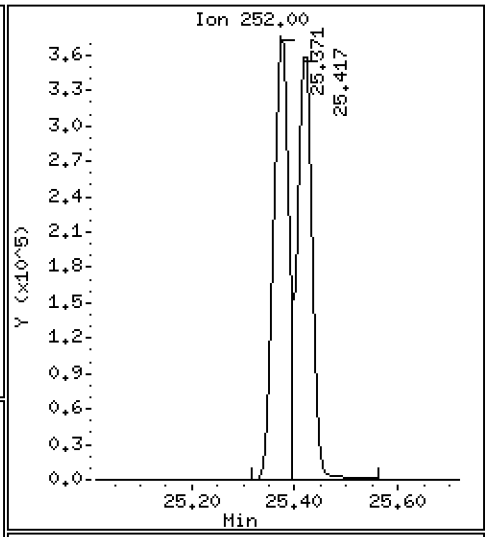
Concentration: 4.602 ug/mL

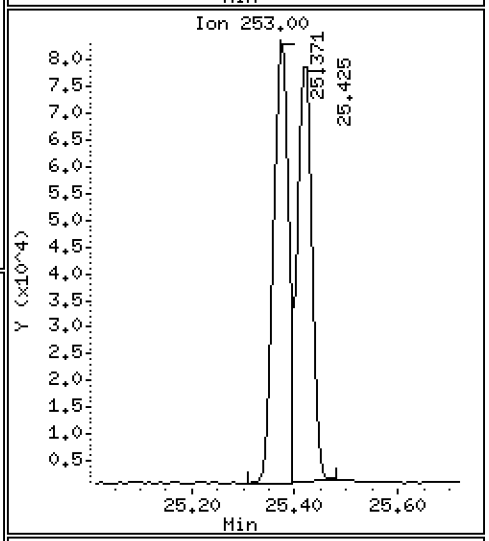


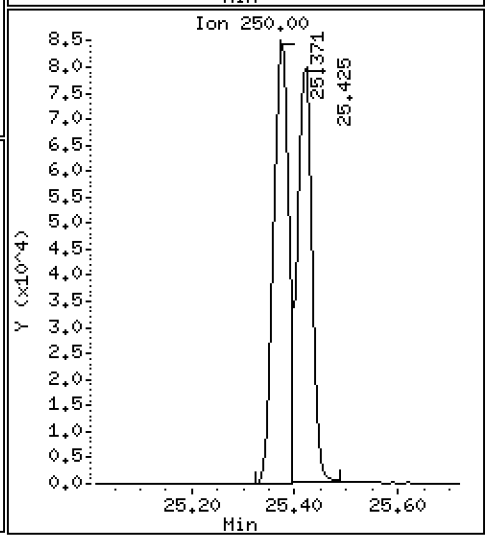












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

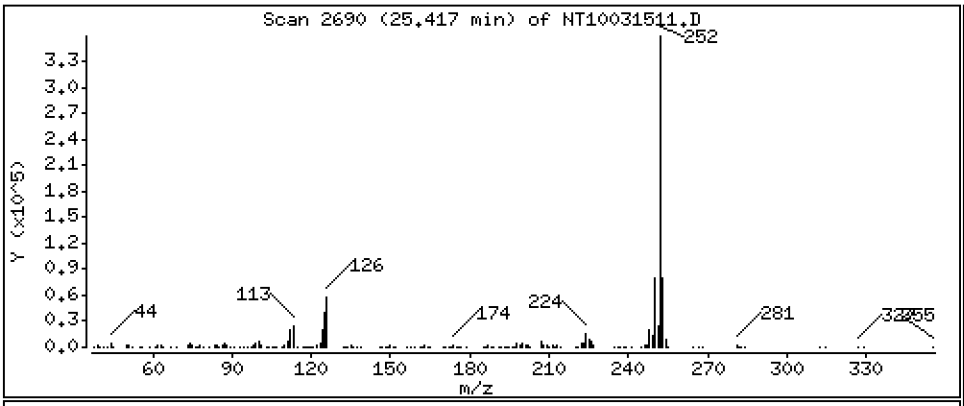
Operator: VTS

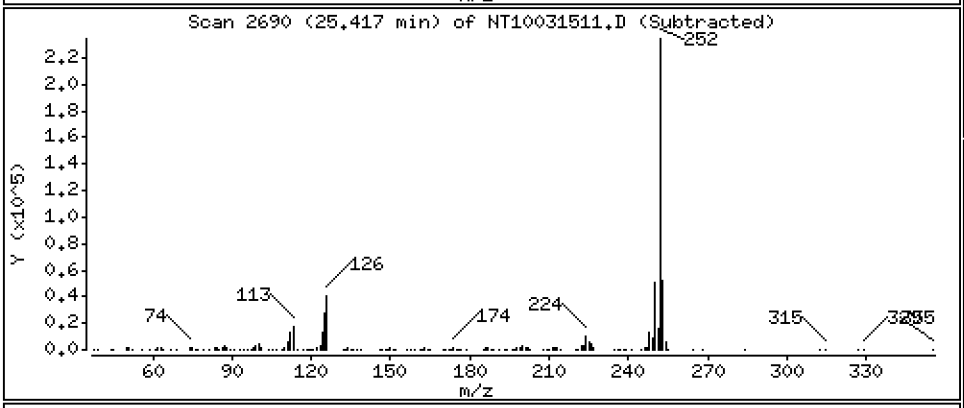
Column phase: ZB-5msi

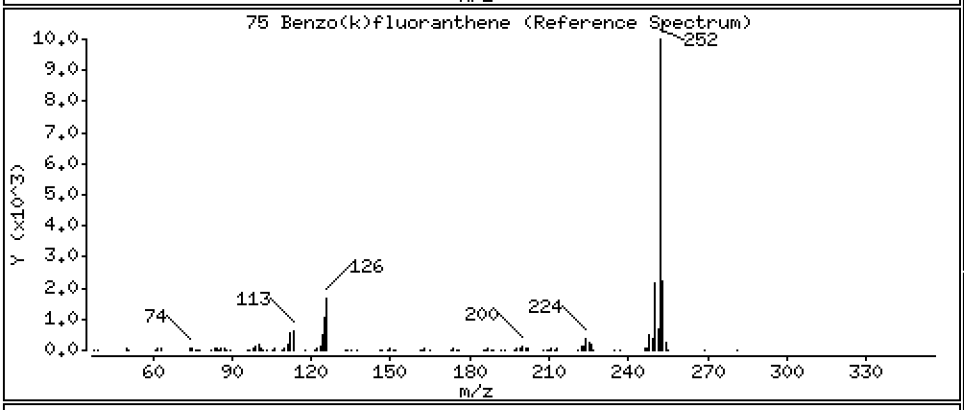
Column diameter: 0.25

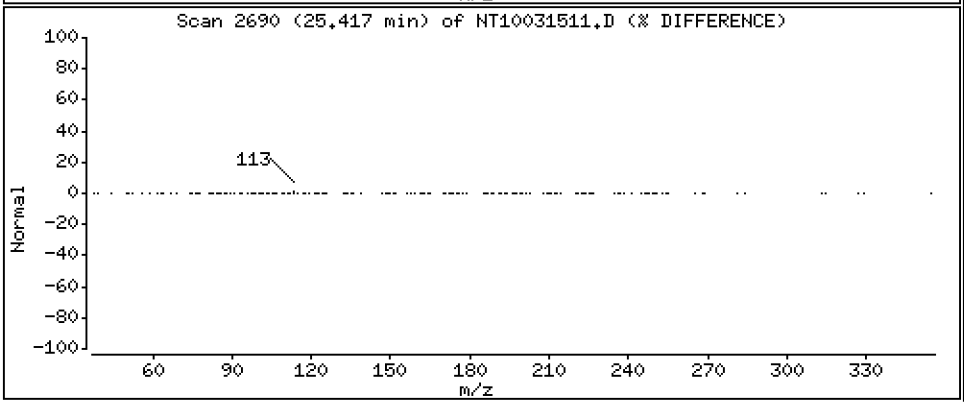
75 Benzo(k)fluoranthene

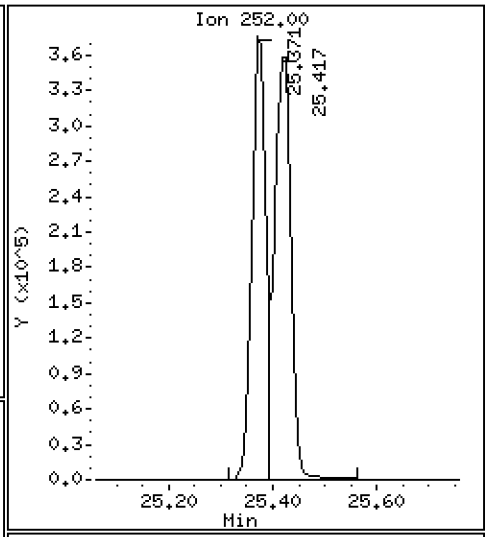
Concentration: 4.898 ug/mL

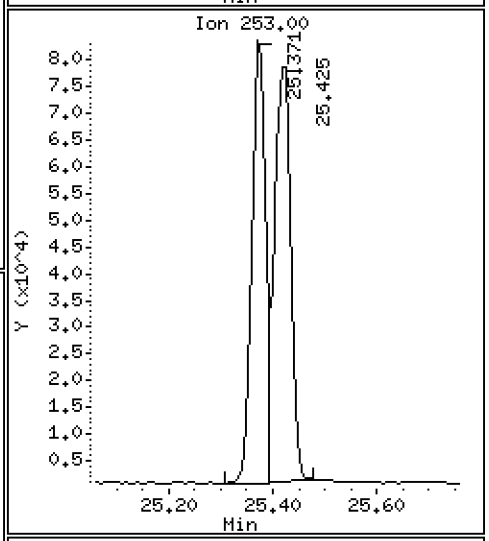


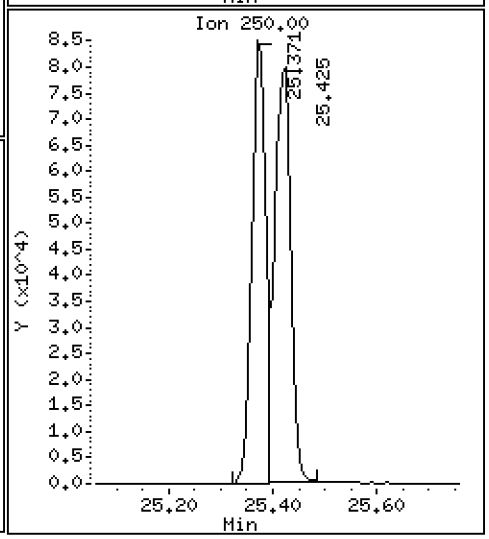












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

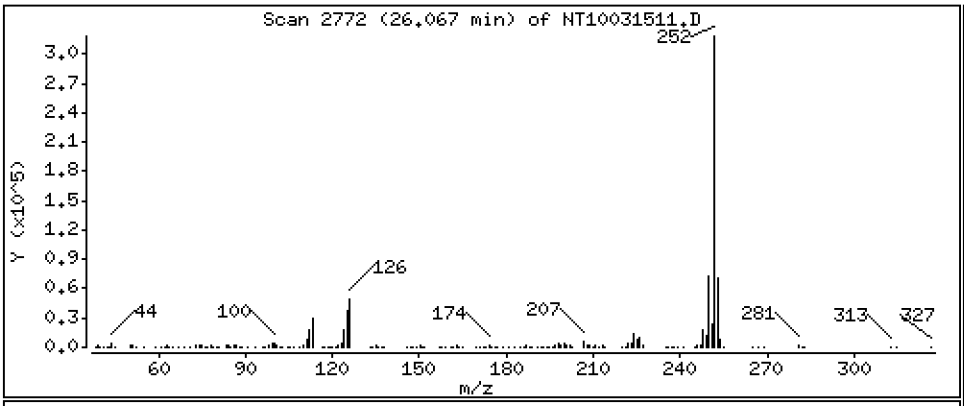
Operator: VTS

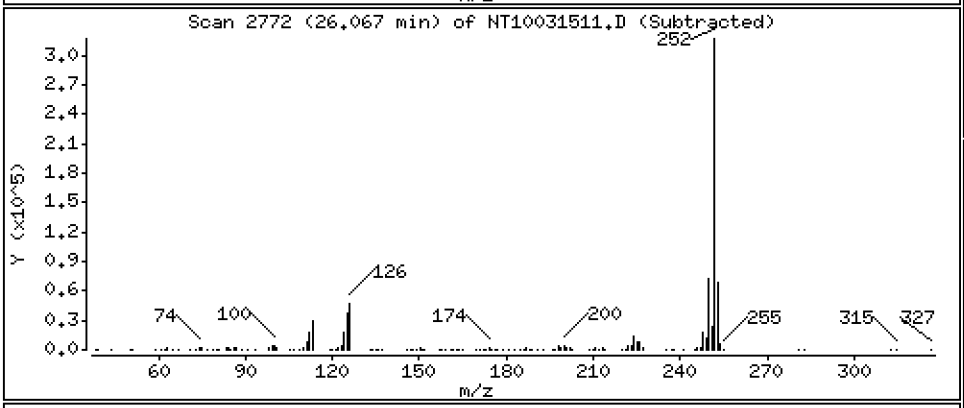
Column phase: ZB-5msi

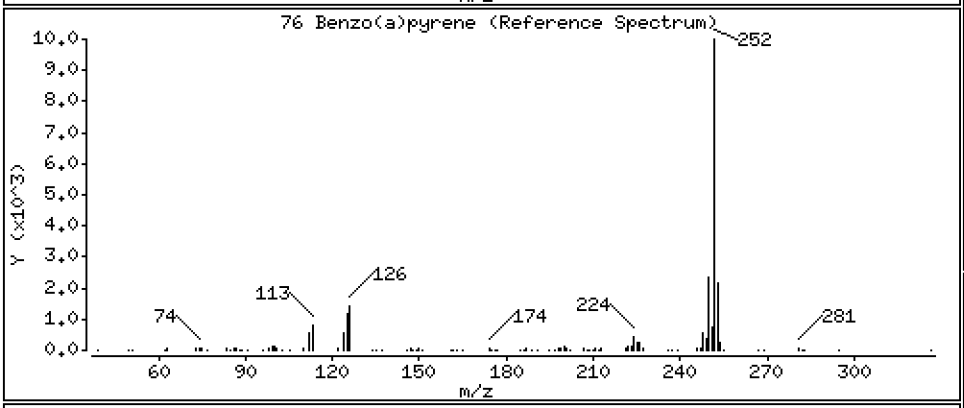
Column diameter: 0.25

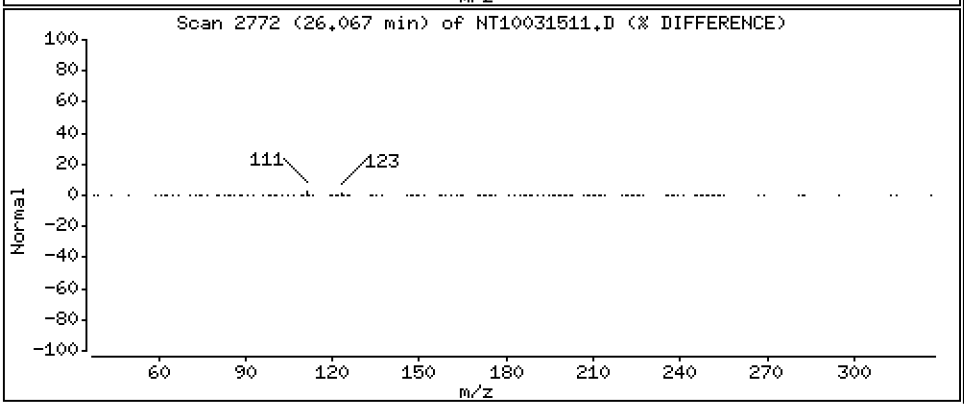
76 Benzo(a)pyrene

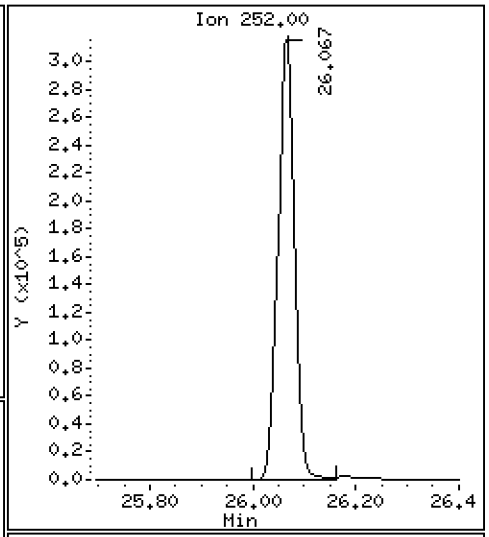
Concentration: 4.873 ug/mL

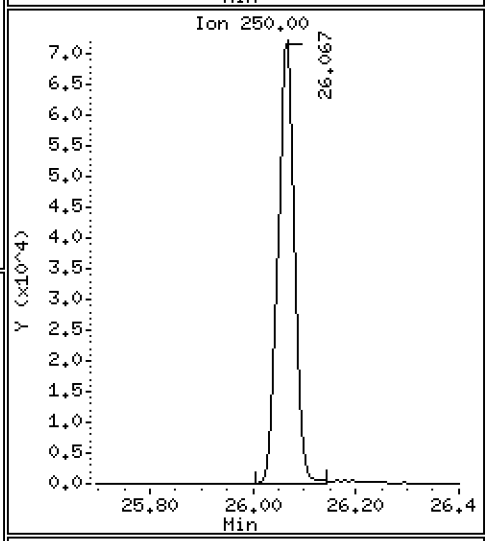


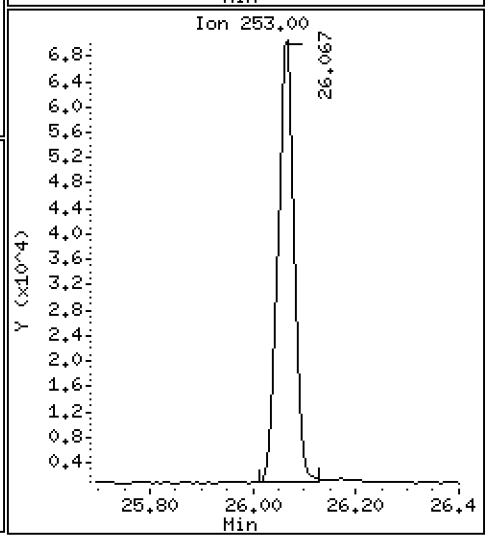












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

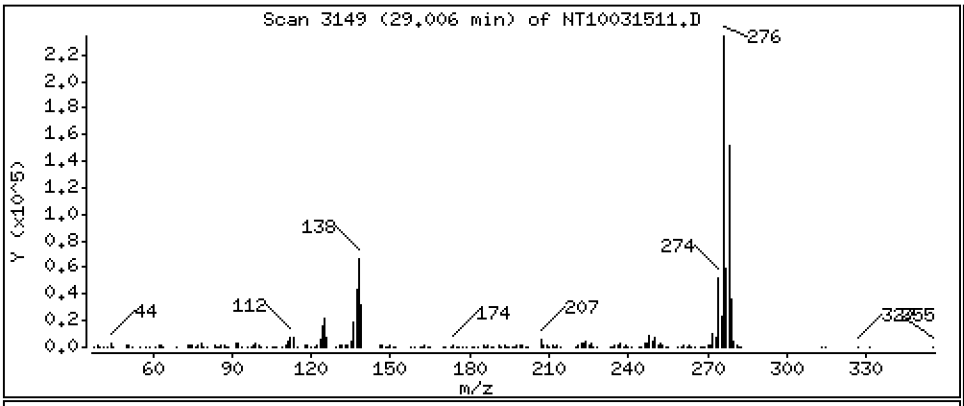
Operator: VTS

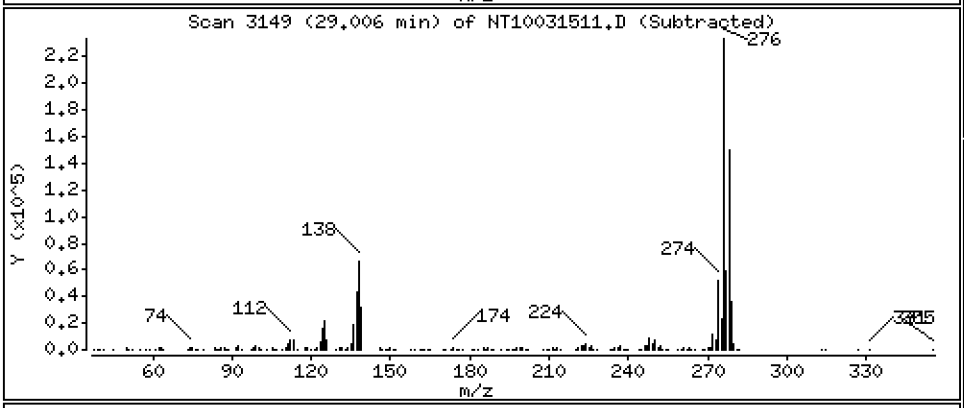
Column phase: ZB-5msi

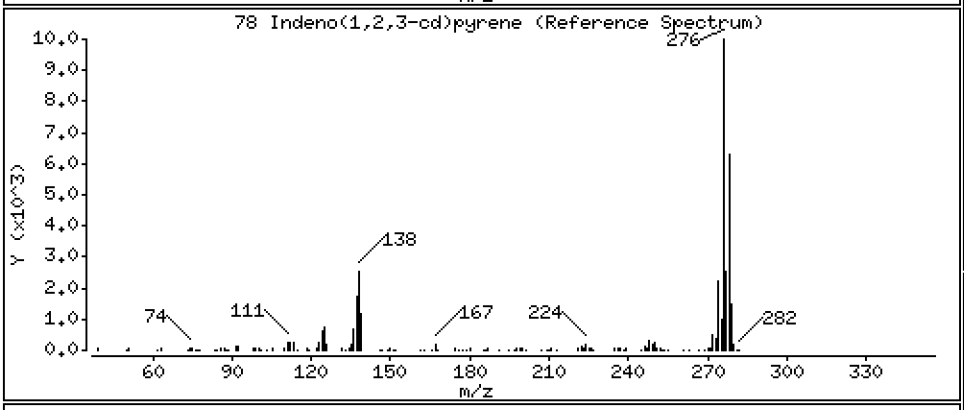
Column diameter: 0.25

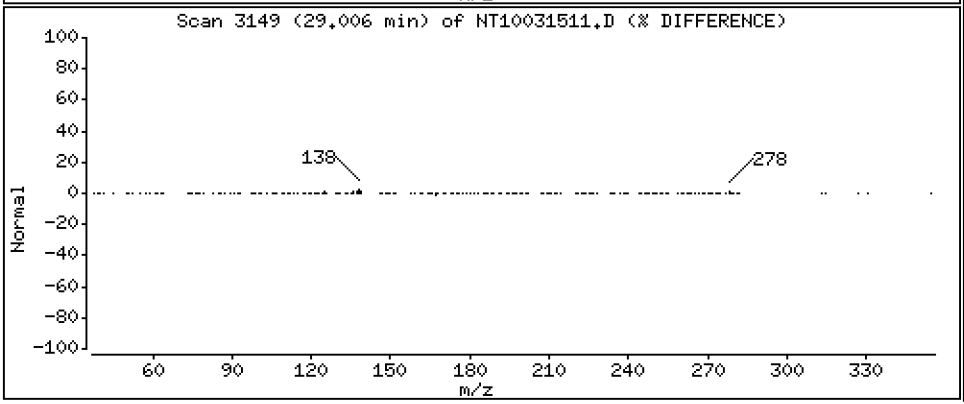
78 Indeno(1,2,3-cd)pyrene

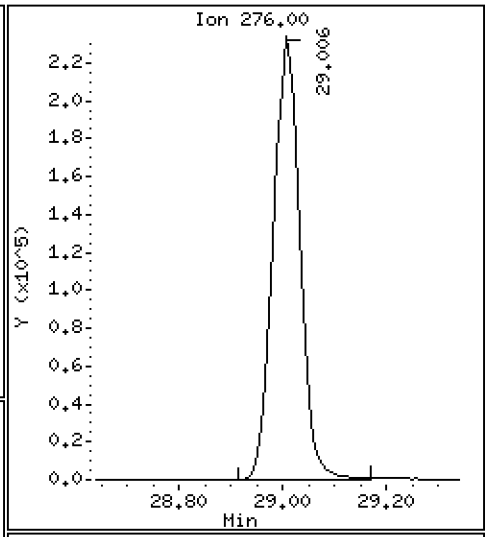
Concentration: 4.577 ug/mL

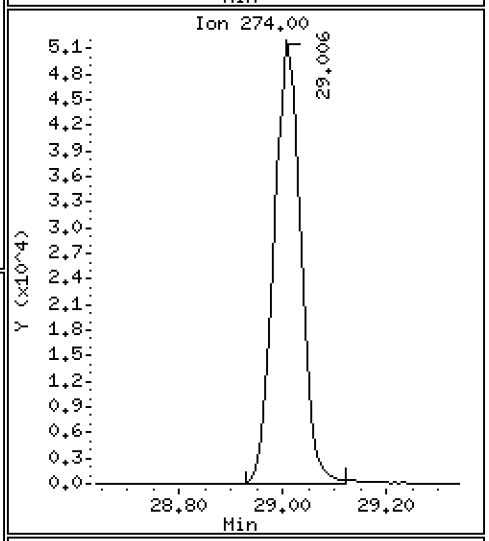


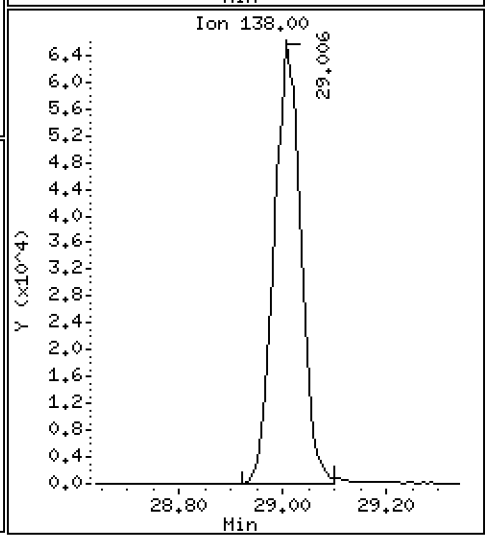












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

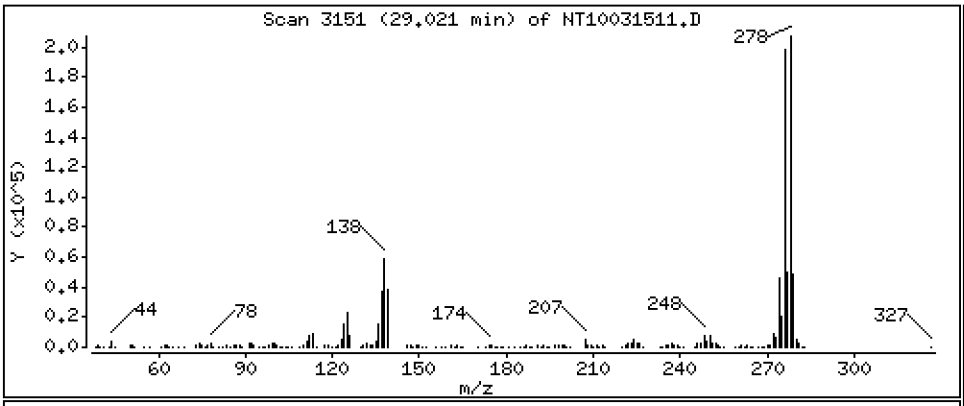
Operator: VTS

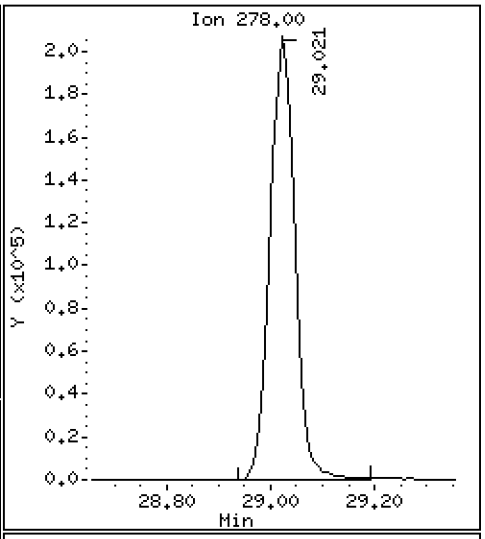
Column phase: ZB-5msi

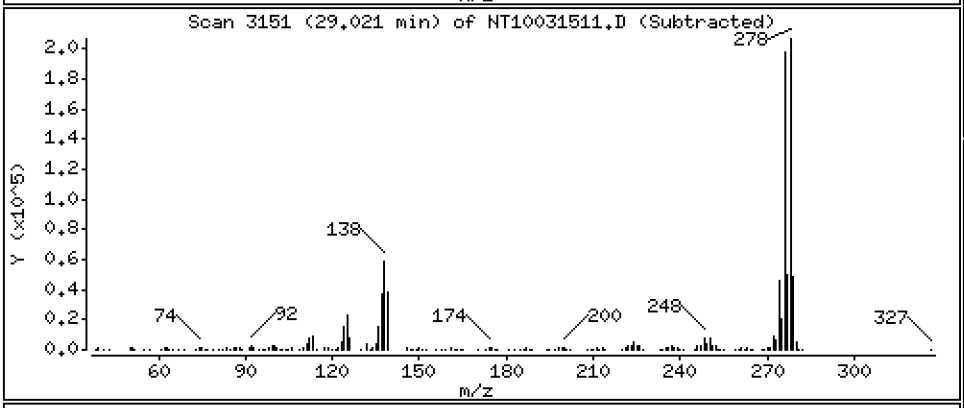
Column diameter: 0.25

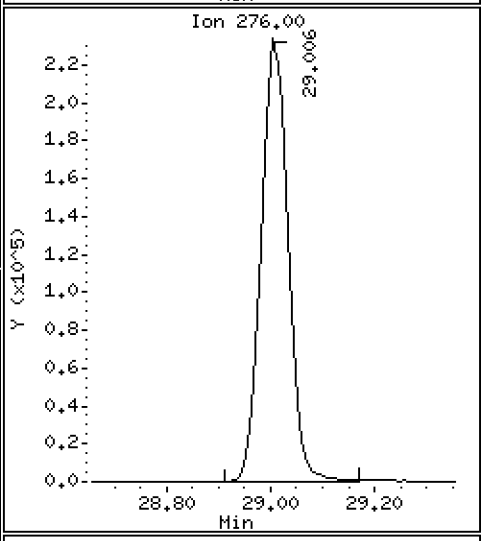
79 Dibenzo(a,h)anthracene

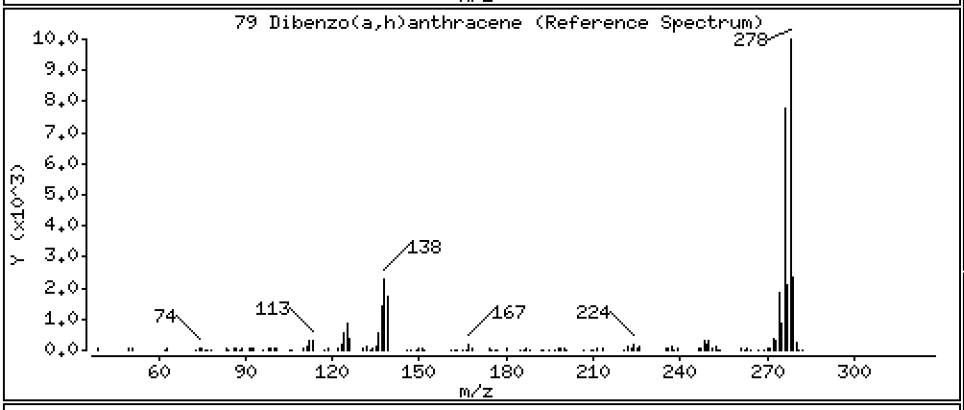
Concentration: 4.547 ug/mL

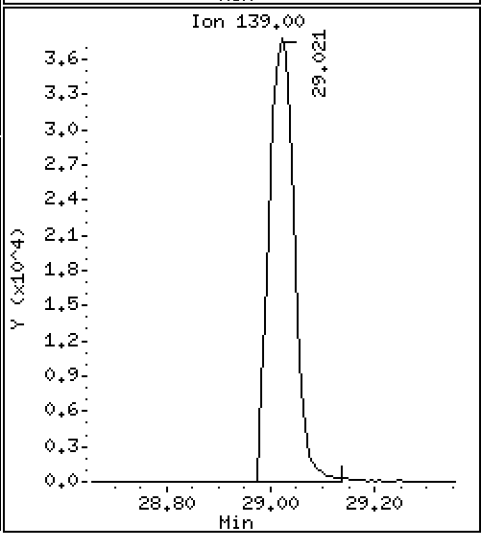


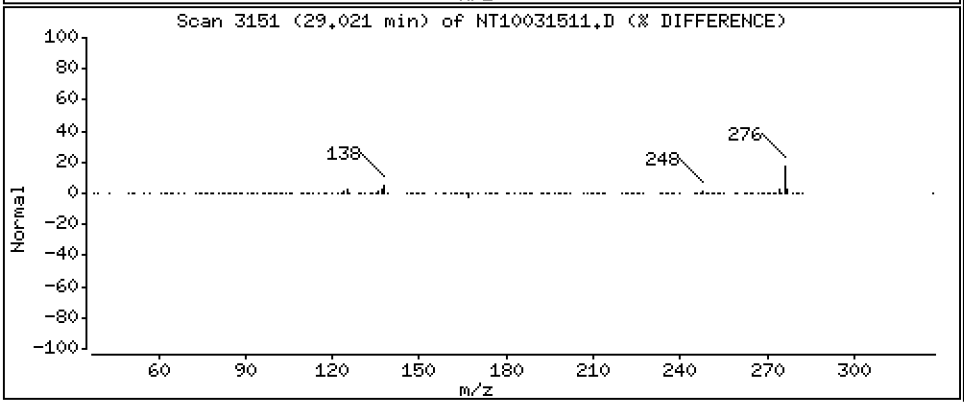












Date : 16-MAR-2023 02:16

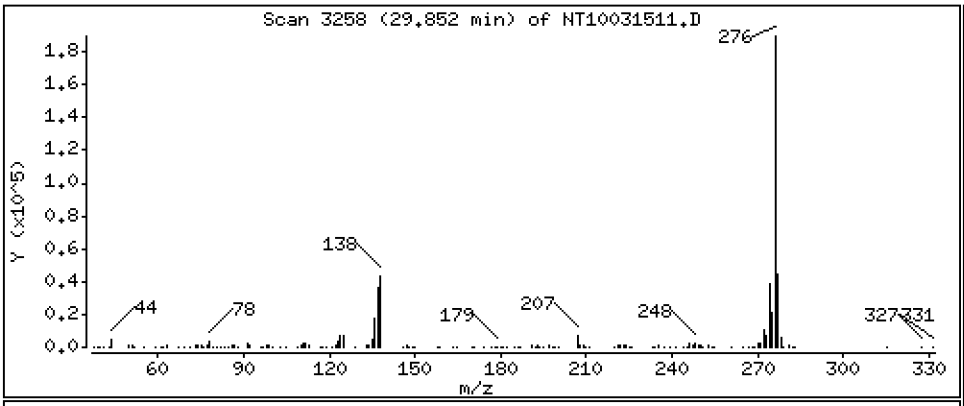
Client ID: Instrument: nt10.i

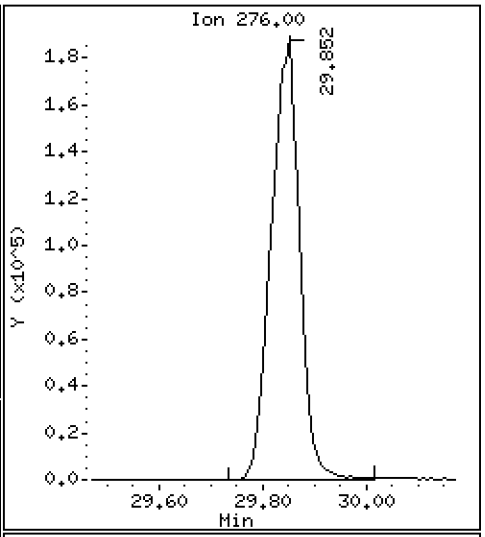
Sample Info: SLC0228-SCV1

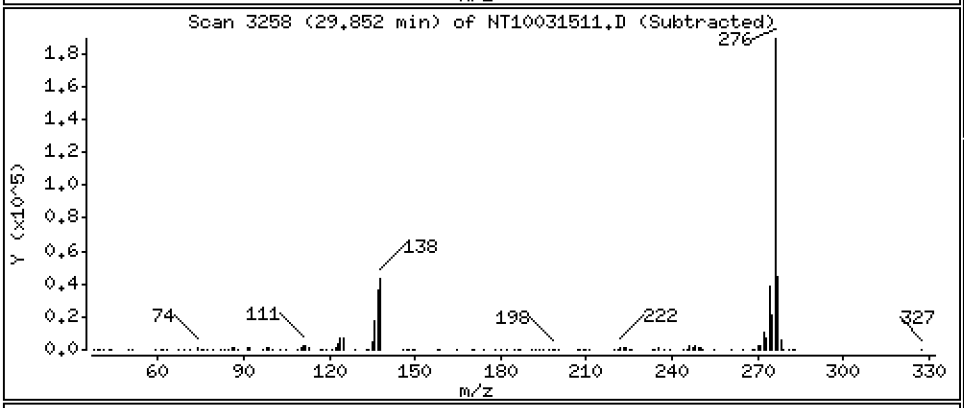
Operator: VTS

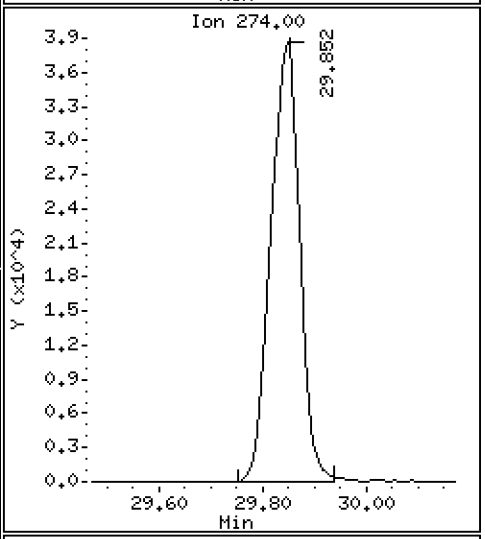
Column phase: ZB-5msi Column diameter: 0.25

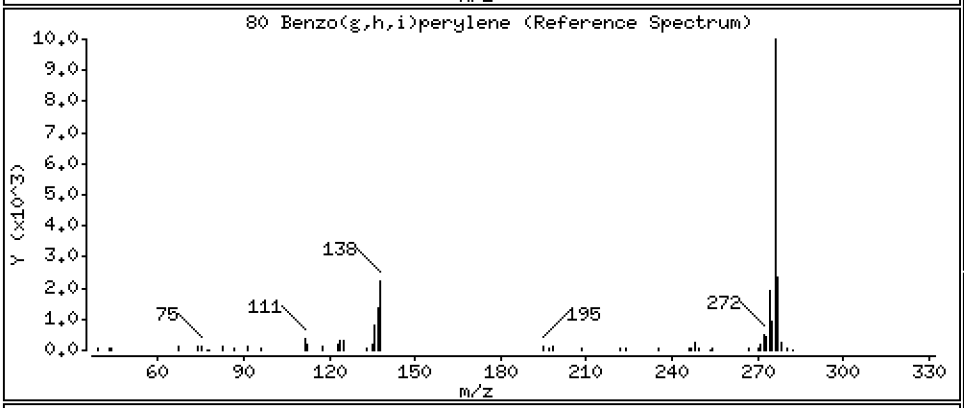
80 Benzo(g,h,i)perylene Concentration: 4.590 ug/mL

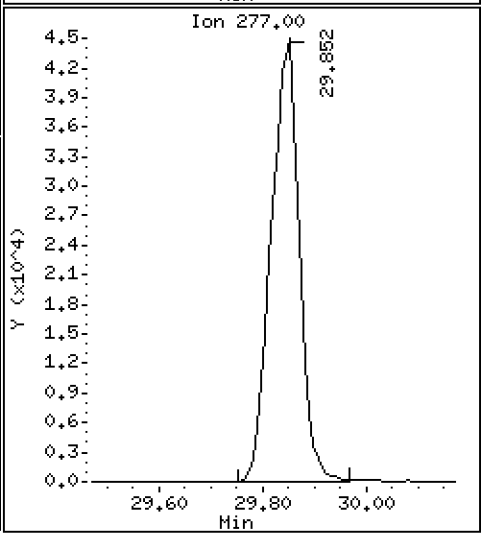


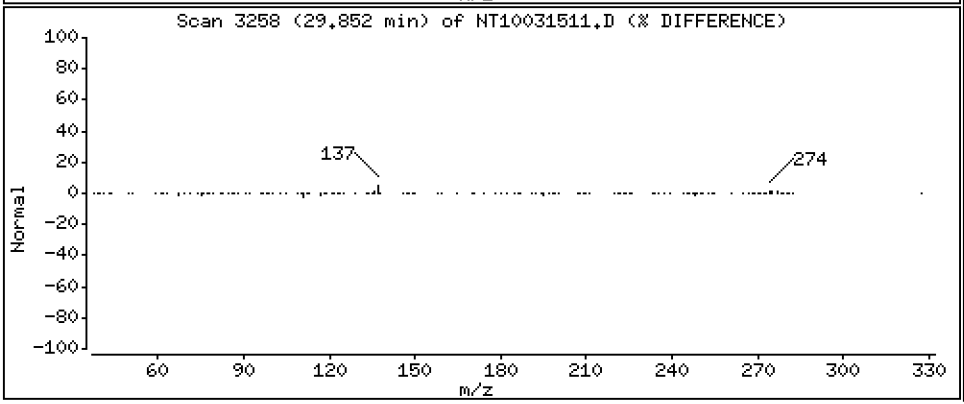












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

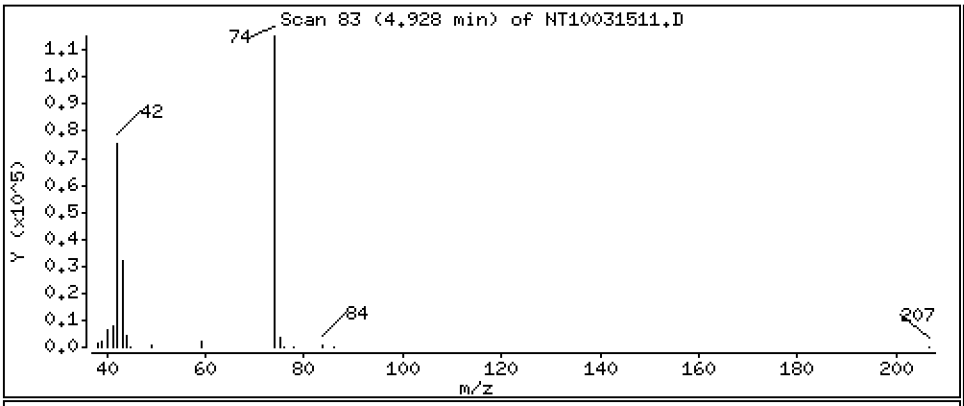
Operator: VTS

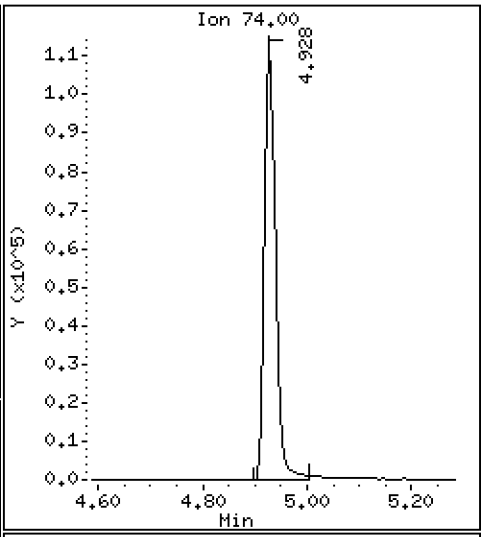
Column phase: ZB-5msi

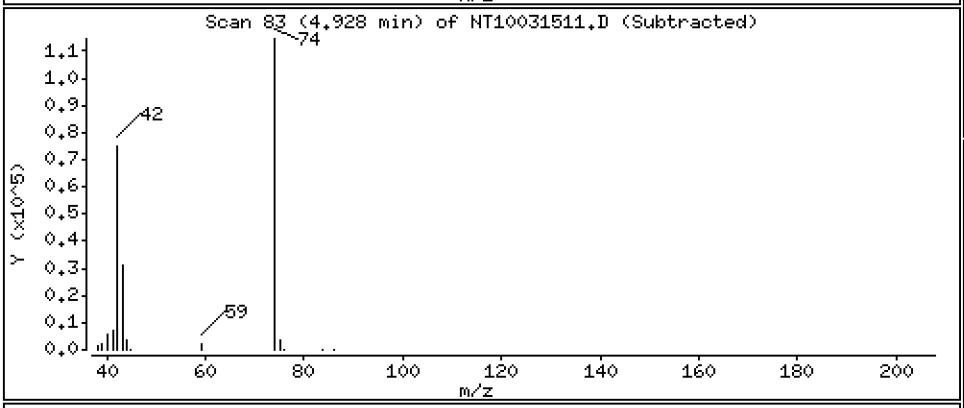
Column diameter: 0.25

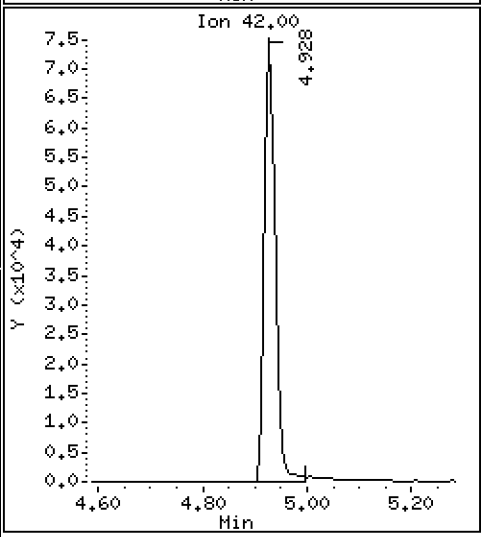
90 N-Nitrosodimethylamine

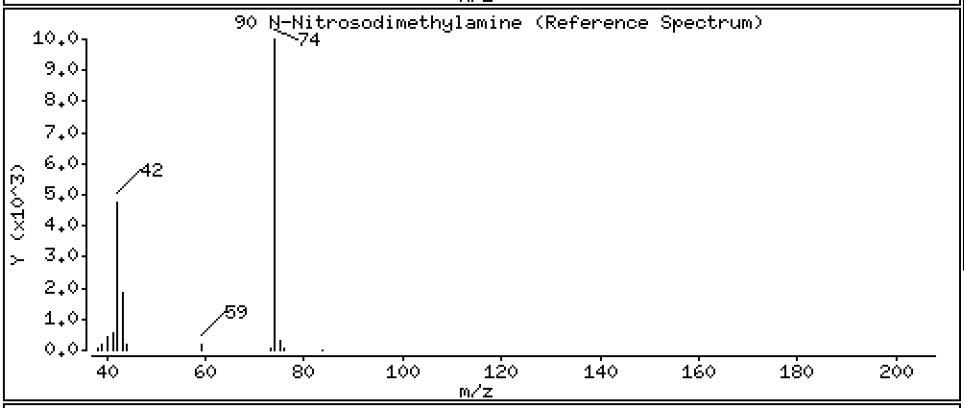
Concentration: 5.194 ug/mL

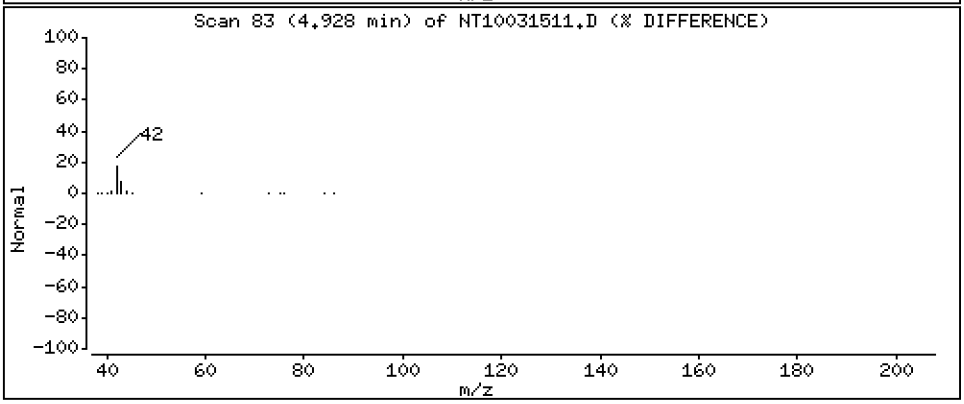












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

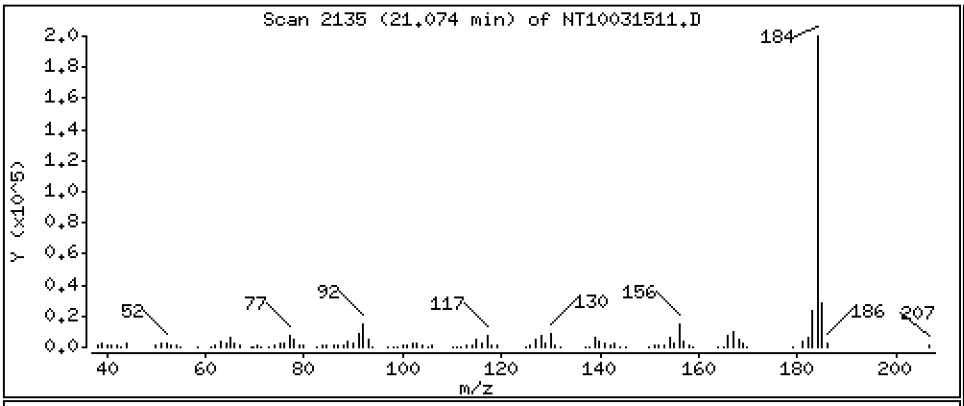
Operator: VTS

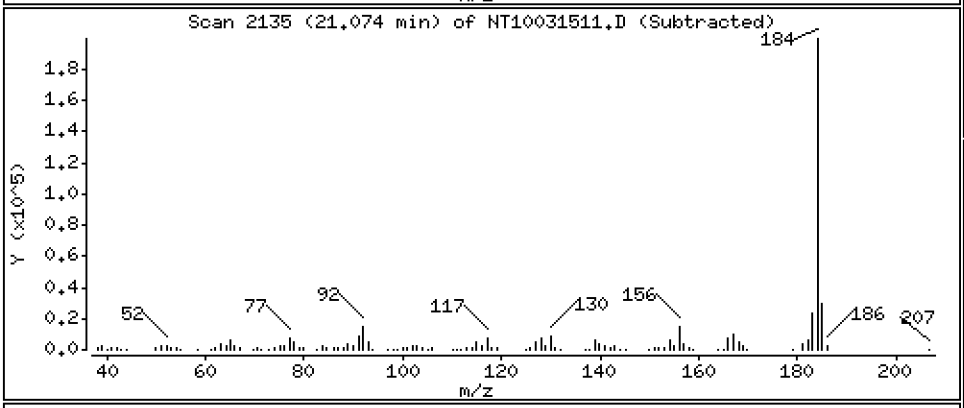
Column phase: ZB-5msi

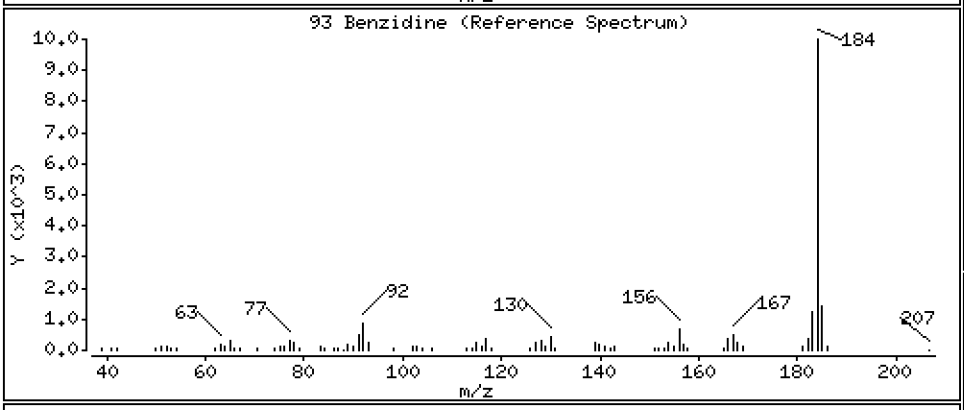
Column diameter: 0.25

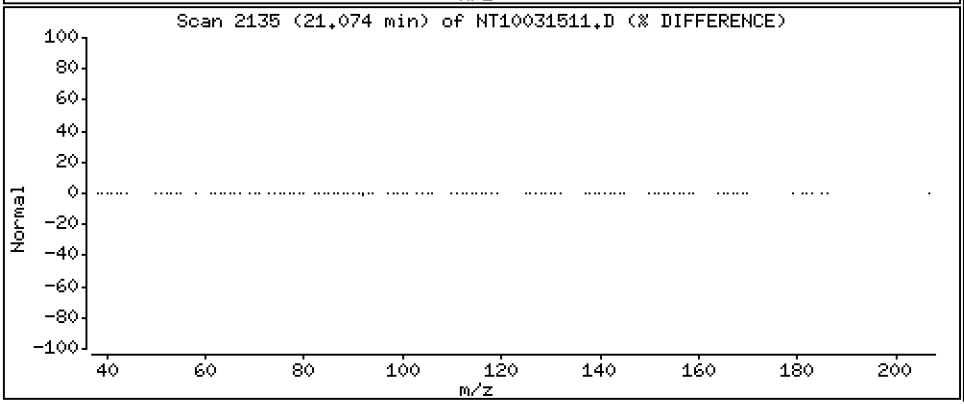
93 Benzidine

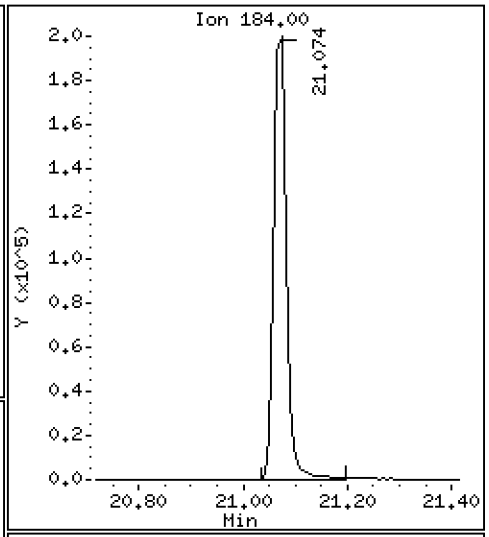
Concentration: 4.380 ug/mL

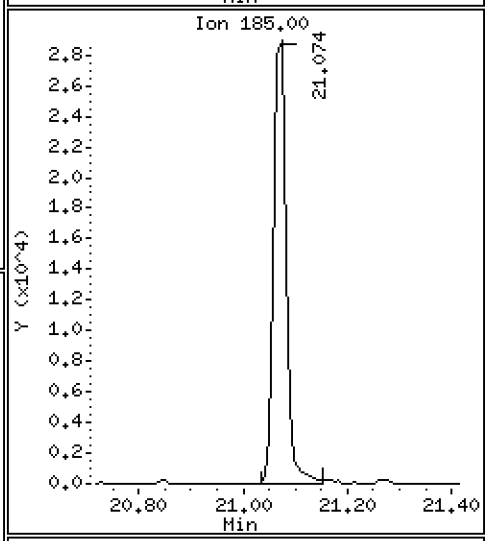


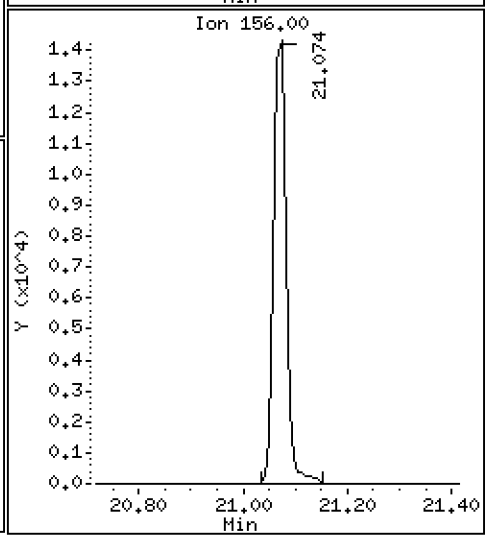












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

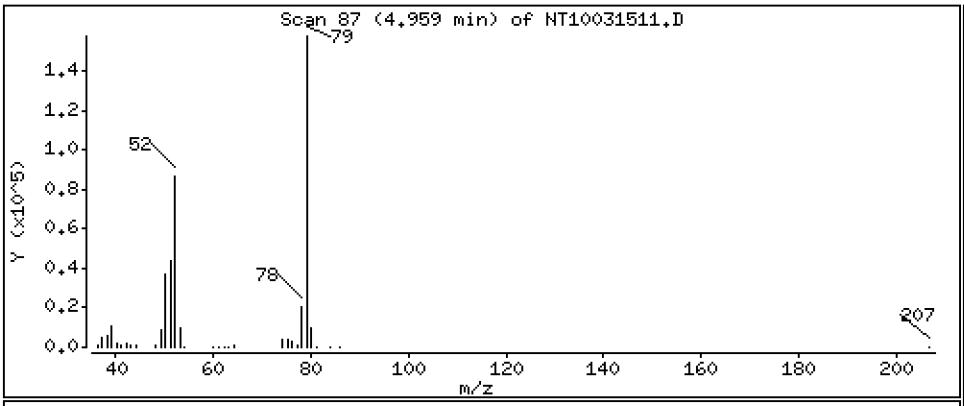
Operator: VTS

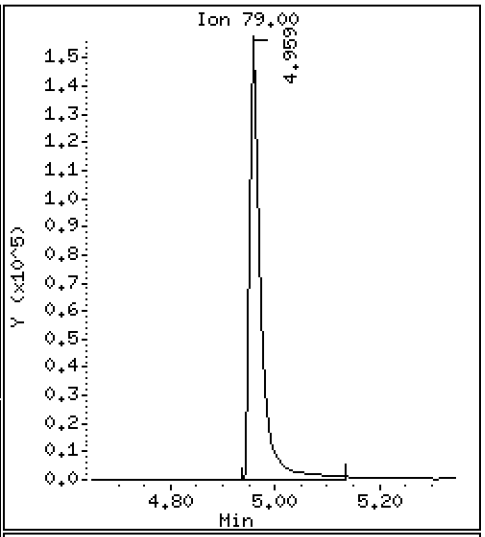
Column phase: ZB-5msi

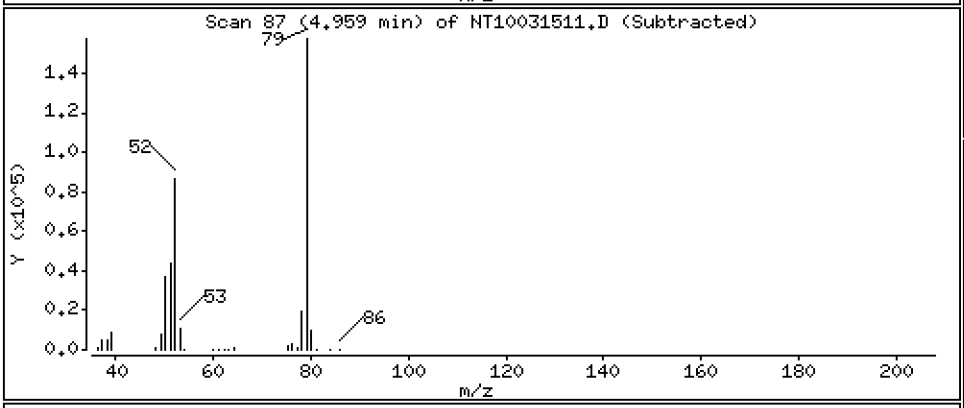
Column diameter: 0.25

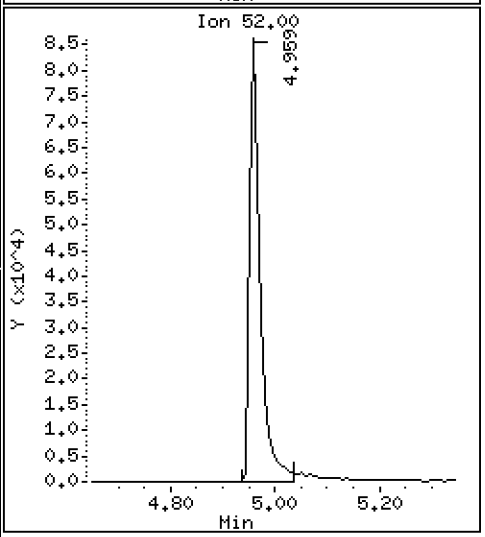
103 Pyridine

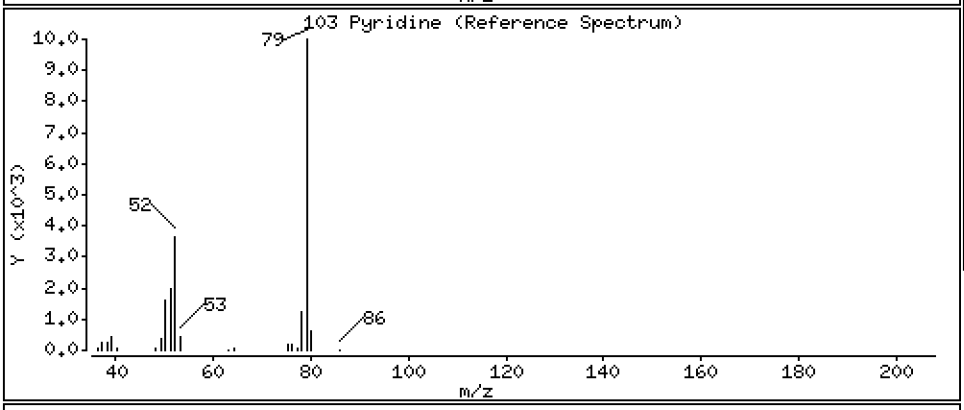
Concentration: 5.337 ug/mL

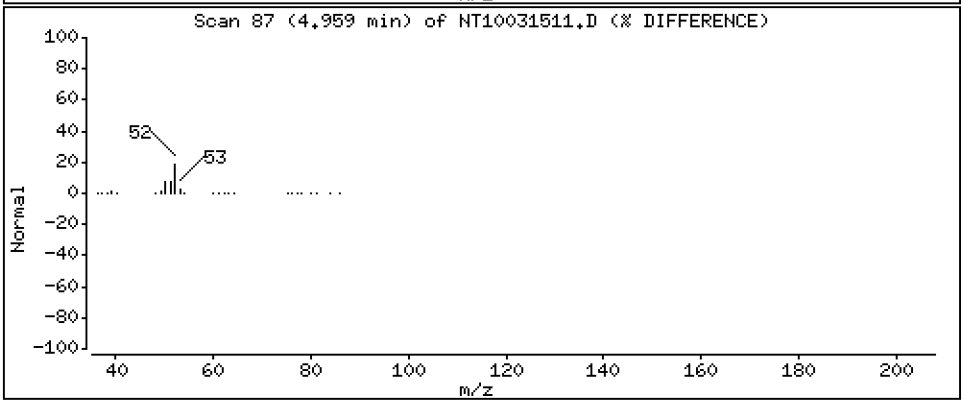












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

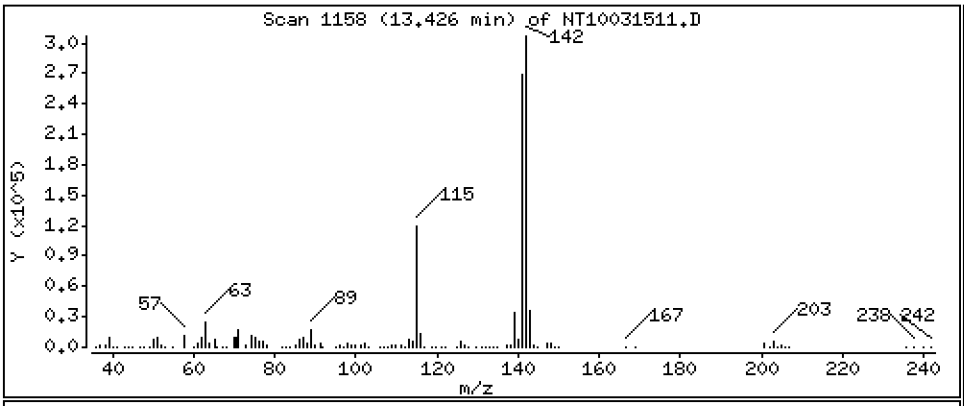
Operator: VTS

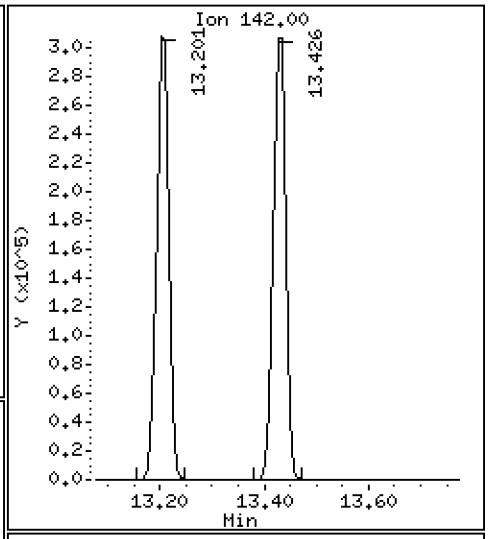
Column phase: ZB-5msi

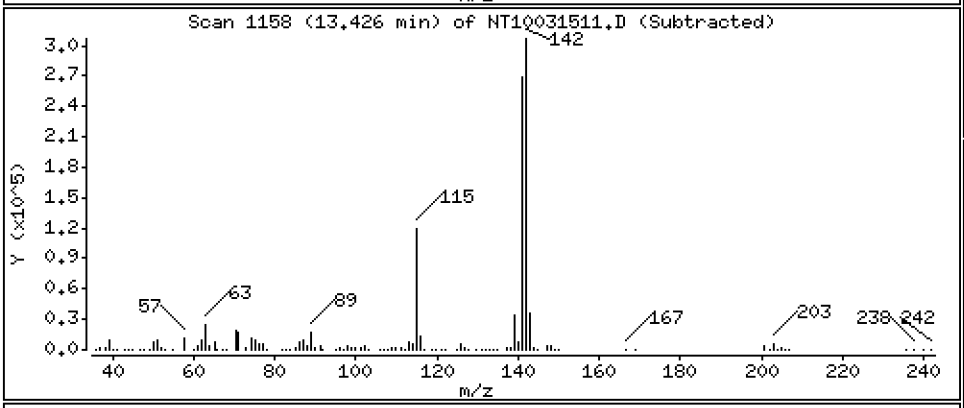
Column diameter: 0.25

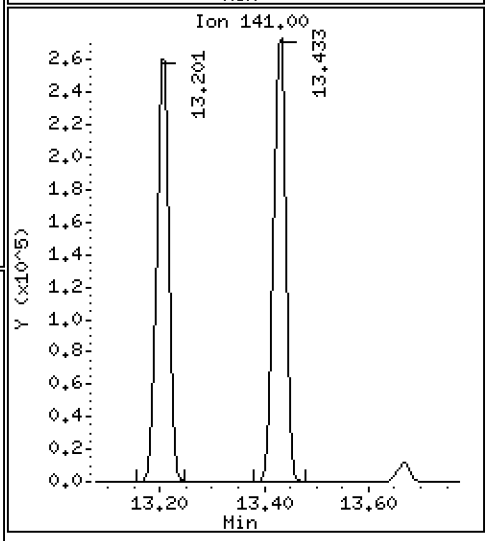
105 1-methylnaphthalene

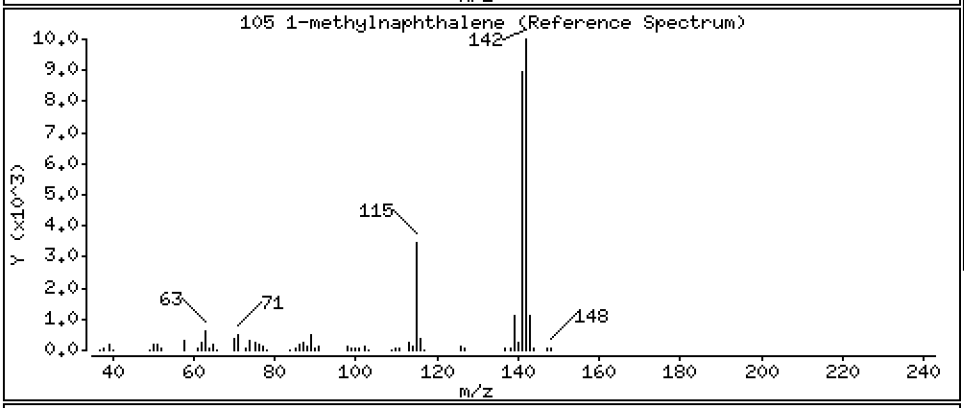
Concentration: 4.875 ug/mL

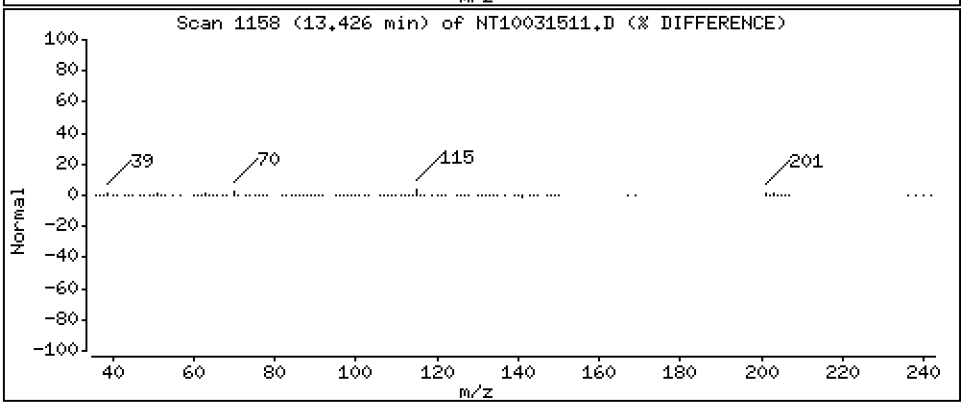












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

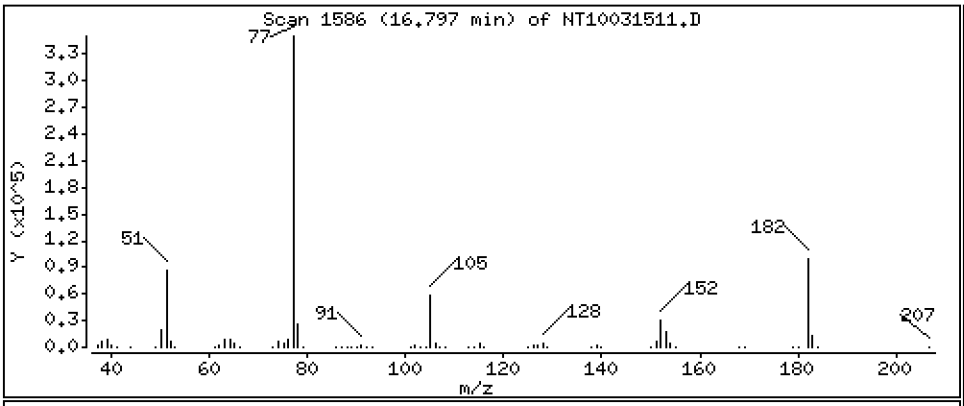
Operator: VTS

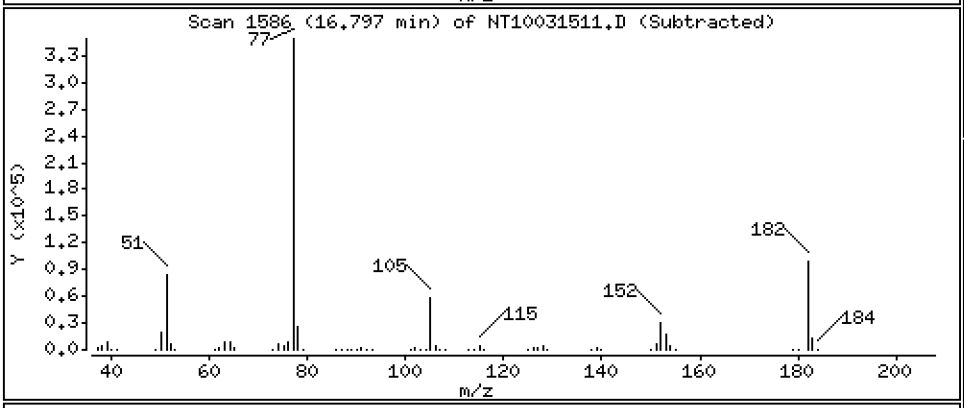
Column phase: ZB-5msi

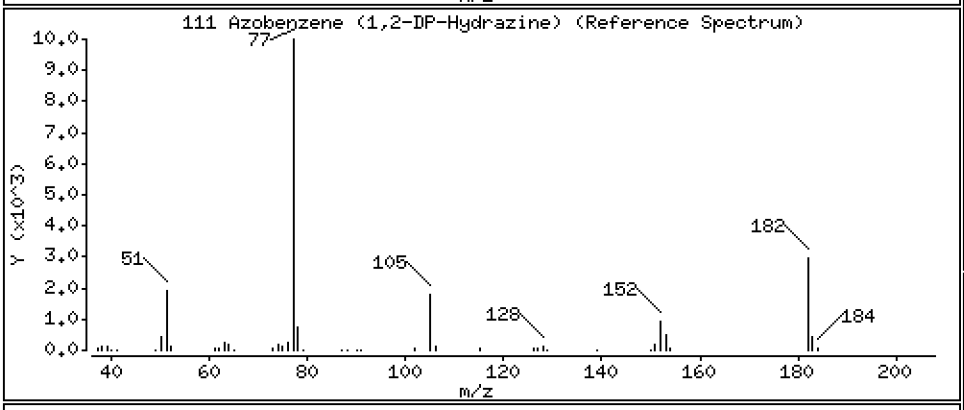
Column diameter: 0.25

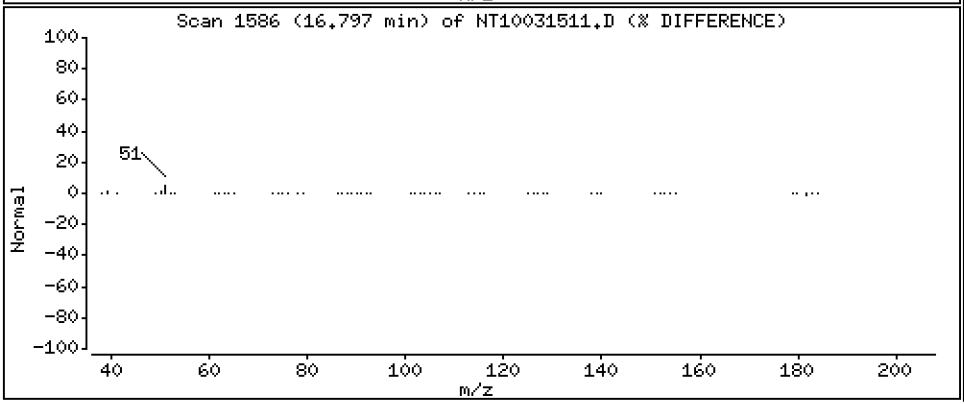
111 Azobenzene (1,2-DP-Hydrazine)

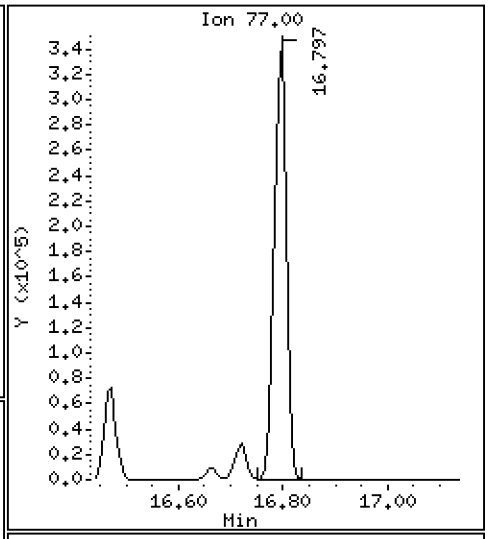
Concentration: 4.937 ug/mL

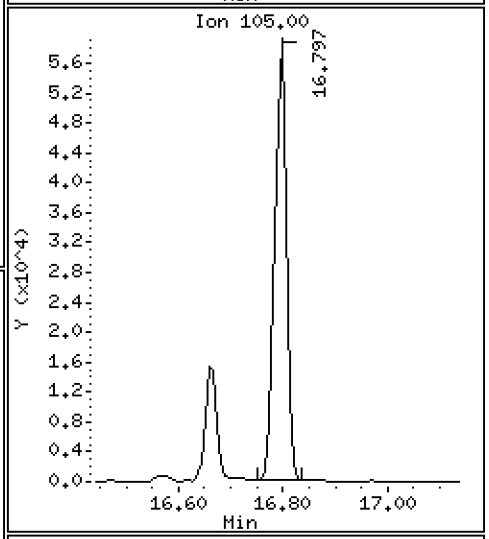


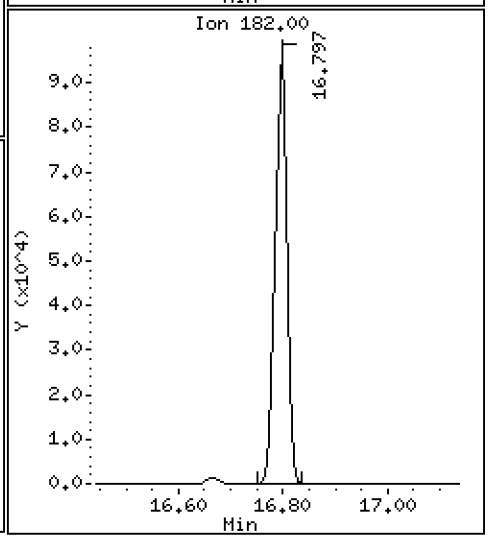












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

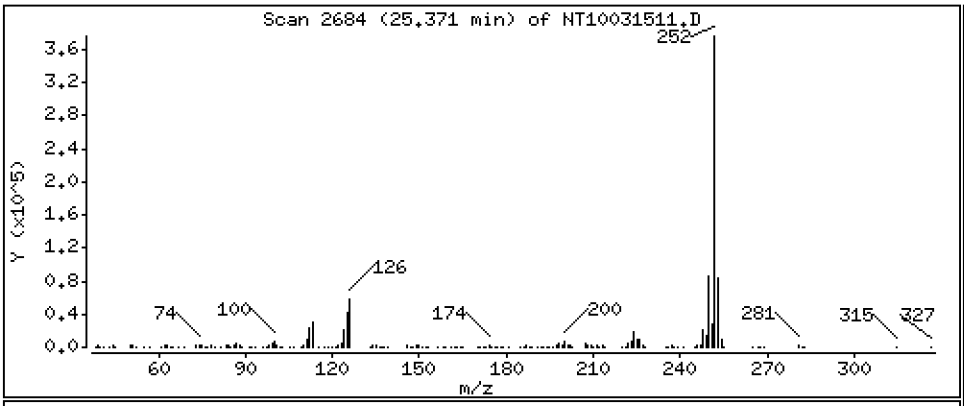
Operator: VTS

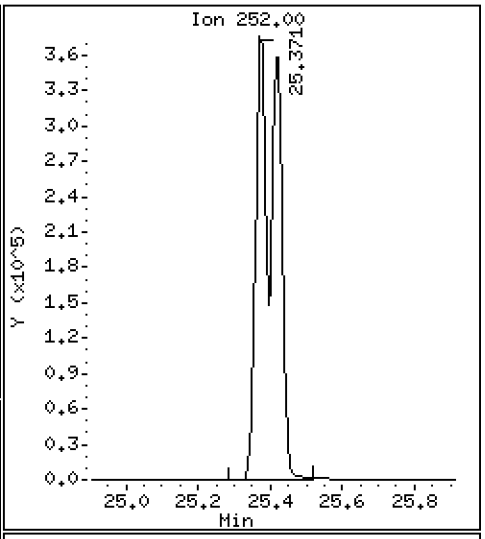
Column phase: ZB-5msi

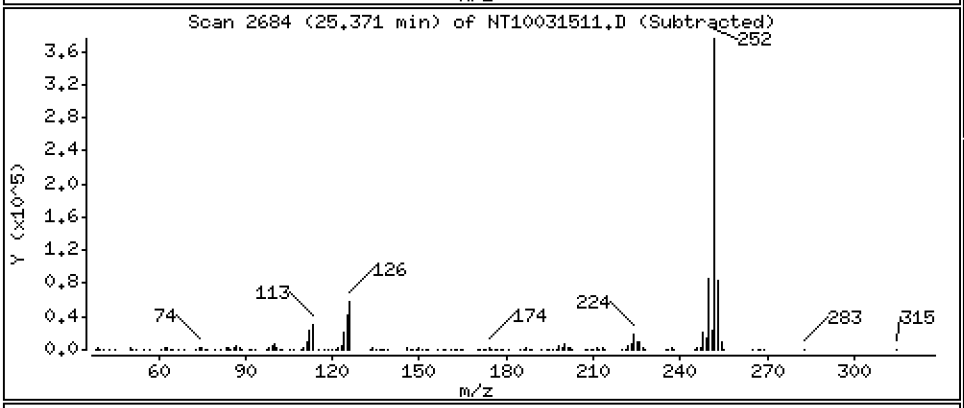
Column diameter: 0.25

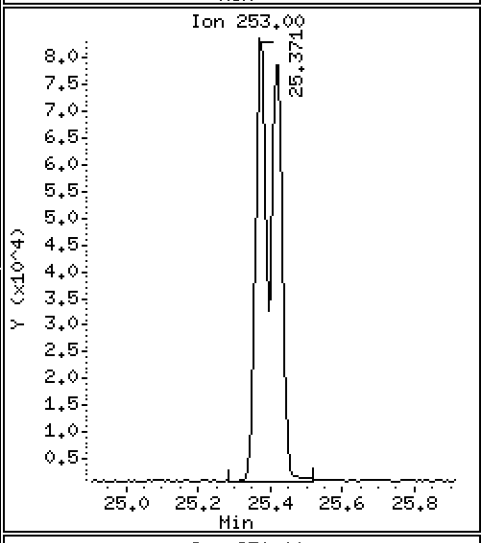
187 Total Benzofluoranthenes

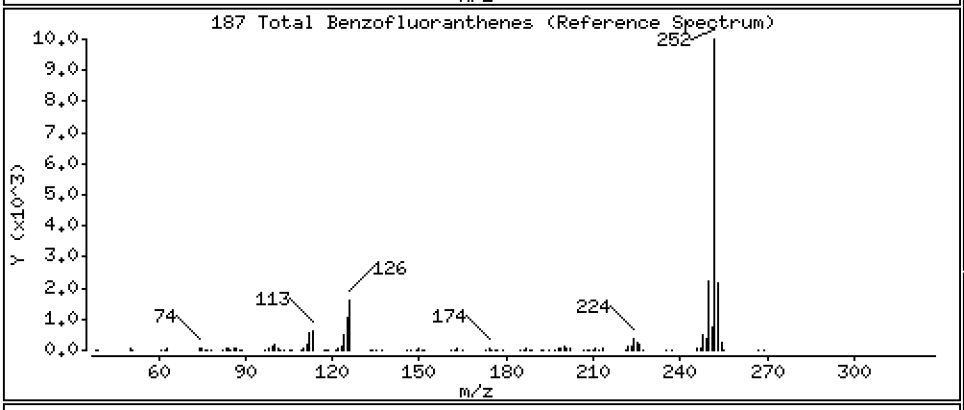
Concentration: 9.483 ug/mL

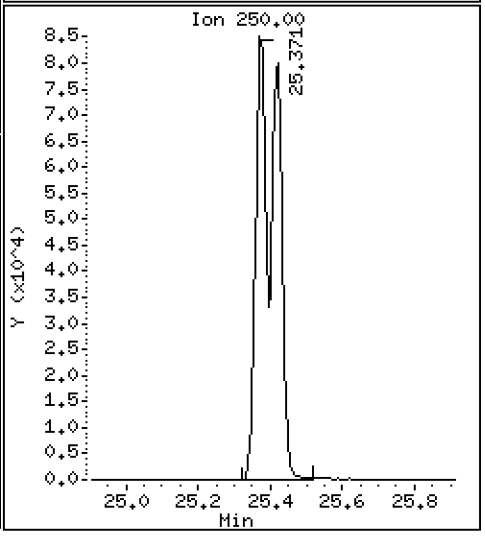


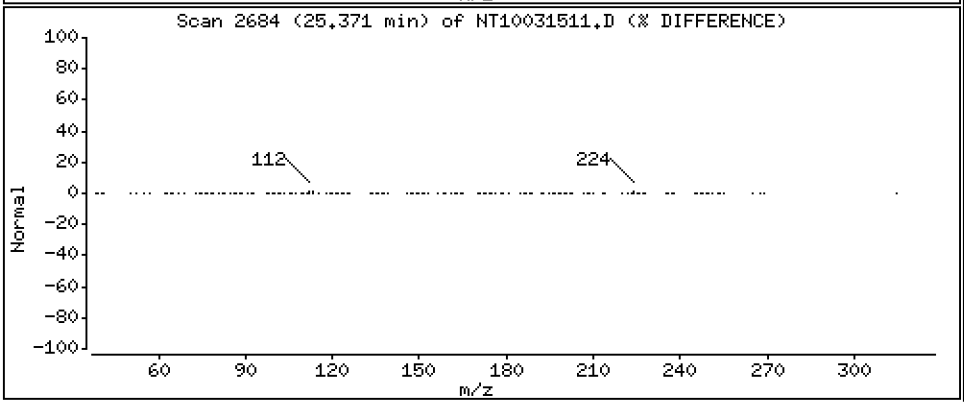












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

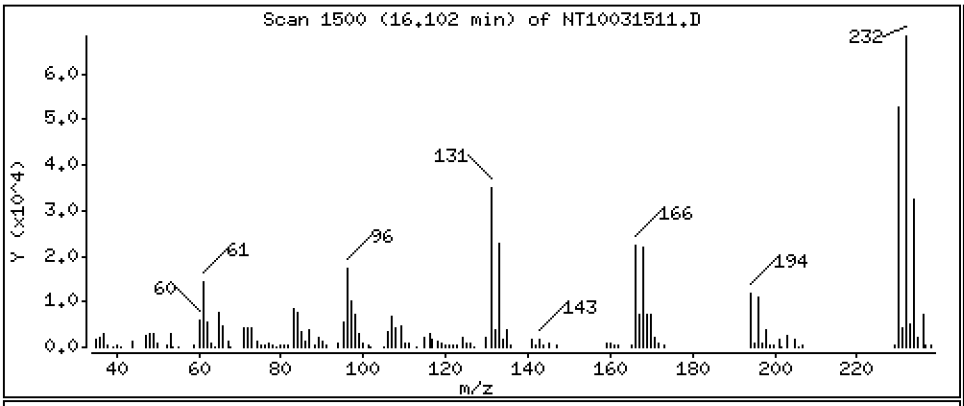
Operator: VTS

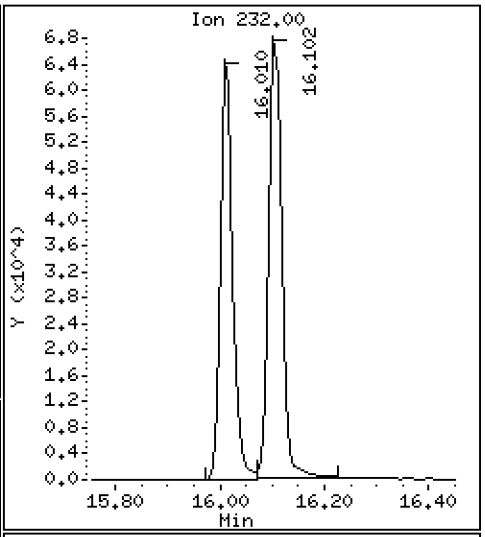
Column phase: ZB-5msi

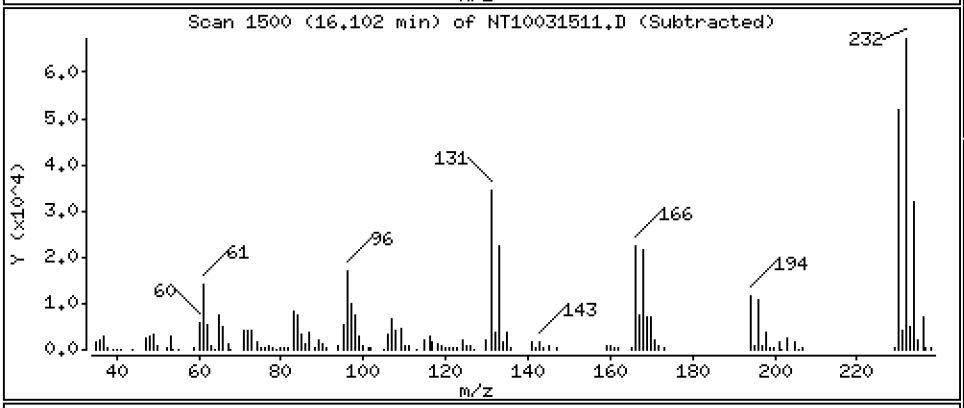
Column diameter: 0.25

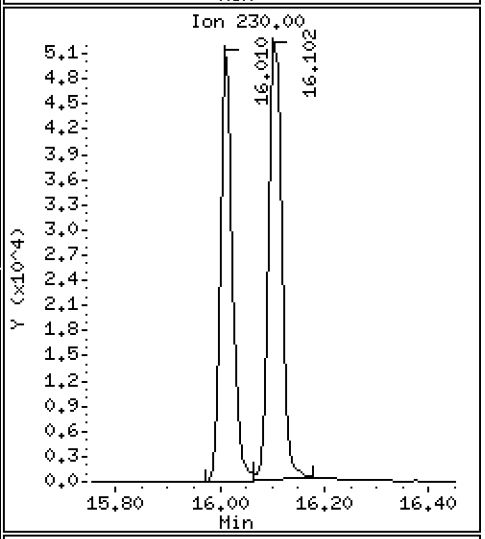
120 2,3,4,6-Tetrachlorophenol

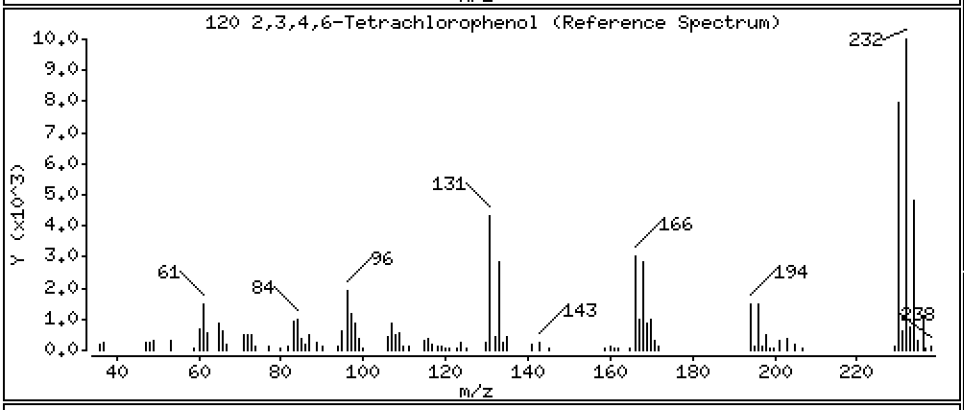
Concentration: 3.980 ug/mL

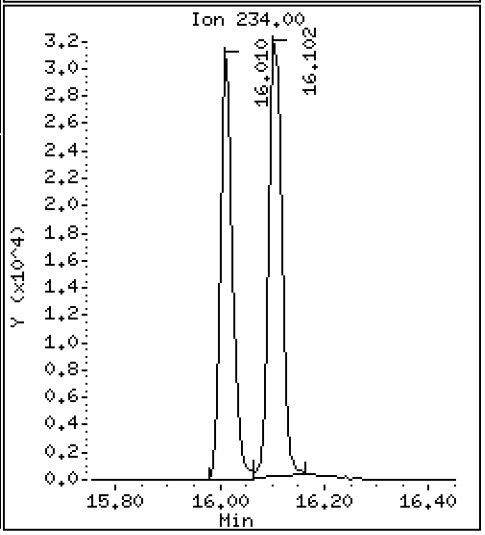


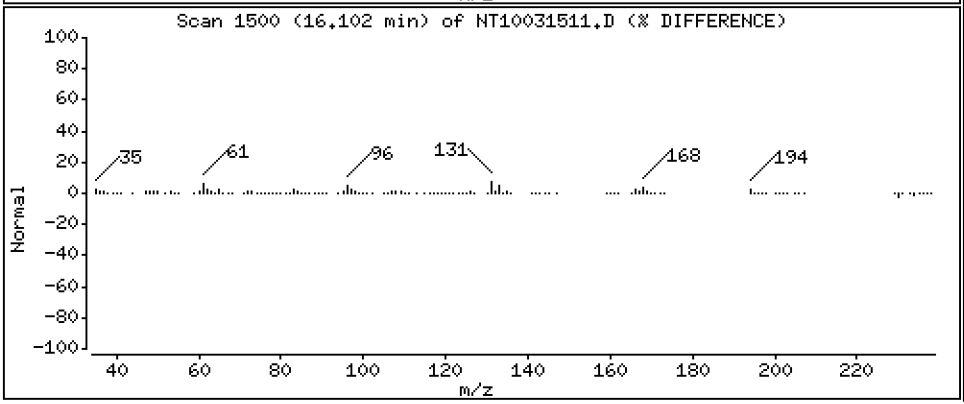












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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

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

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

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

QC Flag Legend

H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

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

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

Test Mode:
Use Last Continuing Calibrator.

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

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

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

REVIEW SUMMARY FOR FILE - NT10031511.D

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

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

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

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.952	0.000	0.9524	Benzoic acid

RRT check based on Ccal File: NT10031508.D

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

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

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GC00046
Lab File ID:	NT1004192348.D	Calibration Date:	03/15/2023
Sequence:	SLD0293	Injection Date:	04/20/23
Lab Sample ID:	SLD0293-CCV1	Injection Time:	17:12
Sequence Name:	Calibration Check		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	5.0000	4.5	1.6490140	1.4863940		-9.9	+/-50
4-Methylphenol	A	5.0000	4.9	1.2665770	1.2295230		-2.9	+/-50
Naphthalene	A	5.0000	4.5	1.0596590	0.9568419		-9.7	+/-50
2-Methylnaphthalene	A	5.0000	5.3	0.7647129	0.8050320		5.3	+/-50
Acenaphthylene	A	5.0000	4.4	1.9964080	1.7410960		-12.8	+/-50
Dimethylphthalate	A	5.0000	4.8	1.2994310	1.2584010		-3.2	+/-50
Acenaphthene	A	5.0000	4.4	1.2333460	1.0745990		-12.9	+/-50
Dibenzofuran	A	5.0000	4.9	1.8187540	1.7949210		-1.3	+/-50
Fluorene	A	5.0000	4.6	1.4308680	1.3118020		-8.3	+/-50
Phenanthrene	A	5.0000	4.6	1.0907130	1.0016440		-8.2	+/-50
Anthracene	A	5.0000	4.7	1.0462760	0.9850909		-5.8	+/-50
Fluoranthene	A	5.0000	3.8	1.6072690	1.2263140		-23.7	+/-50
Pyrene	A	5.0000	3.8	1.6487720	1.2460760		-24.4	+/-50
Butylbenzylphthalate	A	5.0000	4.7	0.5292894	0.5585418		-6.3	+/-50
Benzo(a)anthracene	A	5.0000	4.6	1.4118770	1.2952710		-8.3	+/-50
Chrysene	A	5.0000	4.4	1.3793780	1.2121860		-12.1	+/-50
bis(2-Ethylhexyl)phthalate	A	5.0000	4.3	0.5248968	0.5066341		-13.6	+/-50
Benzofluoranthenes, Total	A	10.000	9.5	1.2519020	1.1851230		-5.3	+/-50
Benzo(a)pyrene	A	5.0000	4.7	1.1592370	1.0893670		-6.0	+/-50
Indeno(1,2,3-cd)pyrene	A	5.0000	4.1	1.4748270	1.1992560		-18.7	+/-50
Dibenzo(a,h)anthracene	A	5.0000	4.2	1.2244340	1.0278870		-16.1	+/-50
Benzo(g,h,i)perylene	A	5.0000	3.6	1.2763410	0.9276998		-27.3	+/-50
2-Fluorophenol	A	7.5000	6.89	1.2096460	1.1116480		-8.1	+/-50
Phenol-d5	A	7.5000	6.74	1.5868760	1.4257320		-10.2	+/-50
2-Chlorophenol-d4	A	7.5000	7.78	1.3550800	1.4057760		3.7	+/-50
1,2-Dichlorobenzene-d4	A	5.0000	4.67	0.9731556	0.9092166		-6.6	+/-50
Nitrobenzene-d5	A	5.0000	4.33	0.4037447	0.3499715		-13.3	+/-50
2-Fluorobiphenyl	A	5.0000	4.33	1.5822890	1.3708440		-13.4	+/-50
2,4,6-Tribromophenol	A	7.5000	7.64	0.1585901	0.1897441		1.8	+/-50
p-Terphenyl-d14	A	5.0000	3.89	1.2381950	0.9643222		-22.1	+/-50

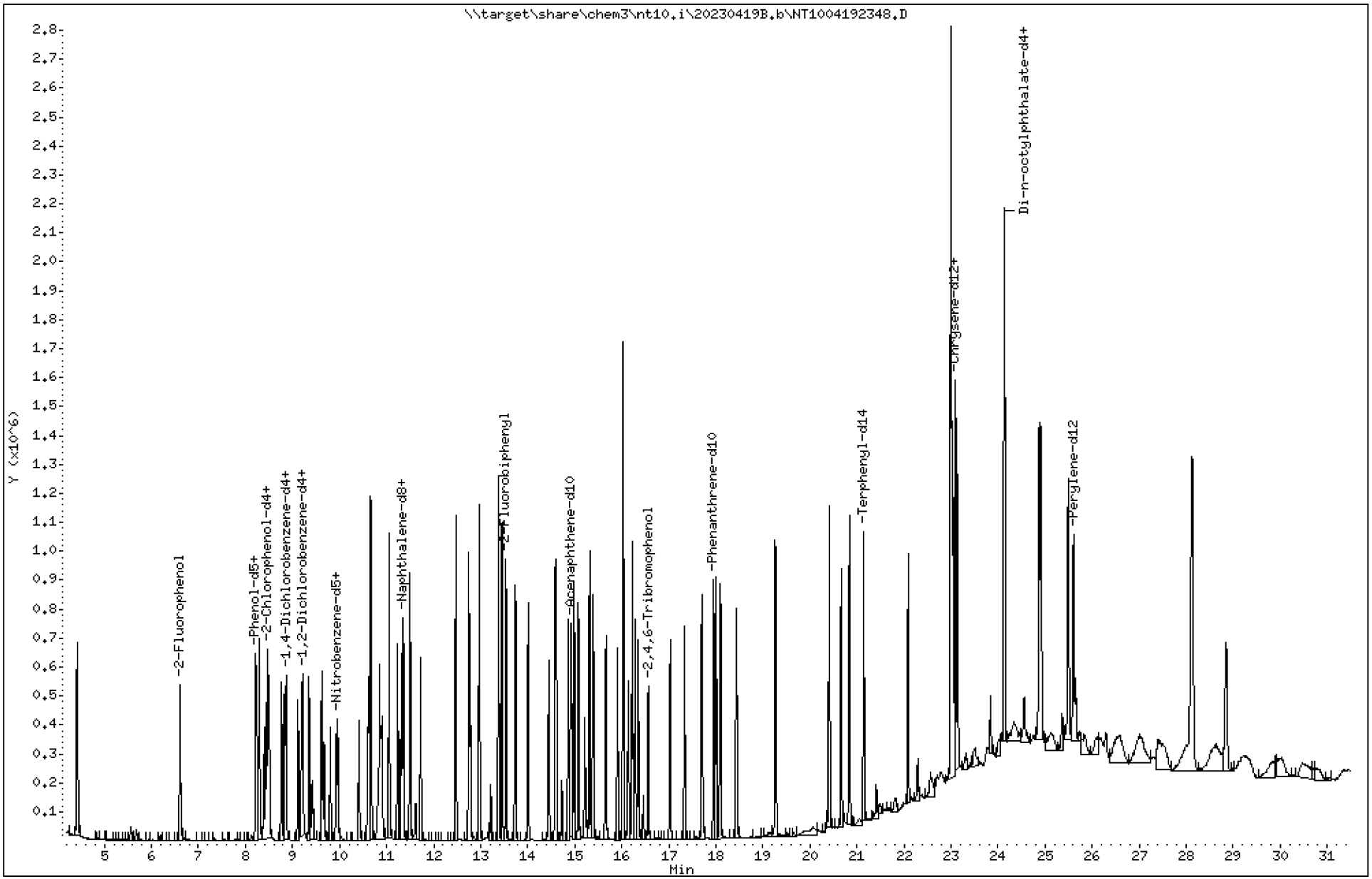
* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192348.D
Date : 20-APR-2023 17:12
Client ID:
Sample Info: SLD0293-CCV1

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

Column phase: ZB-5msi



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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

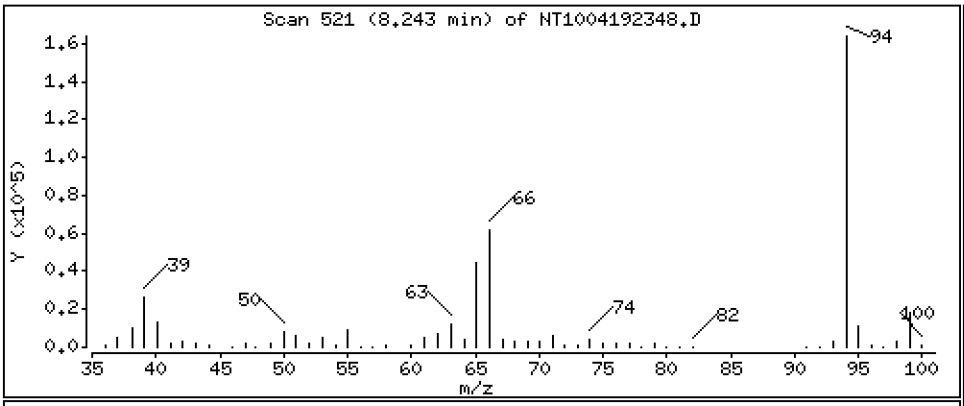
Operator: VTS

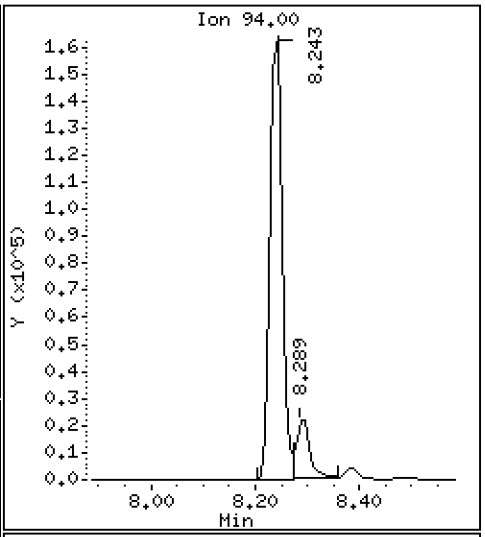
Column phase: ZB-5msi

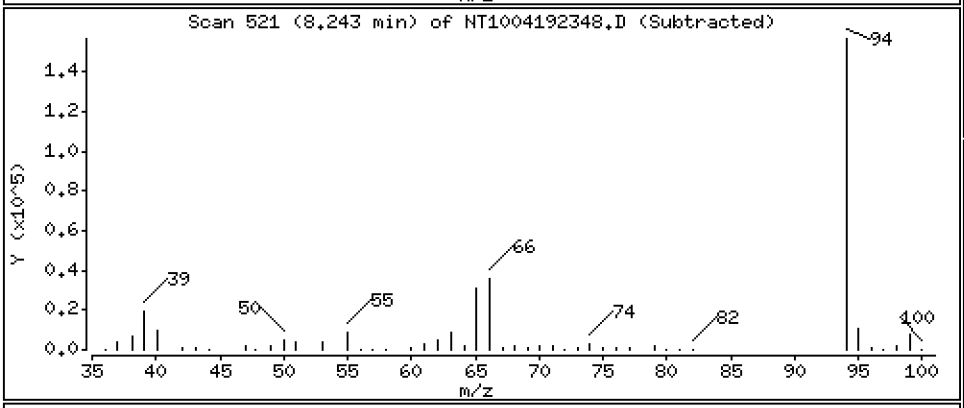
Column diameter: 0.25

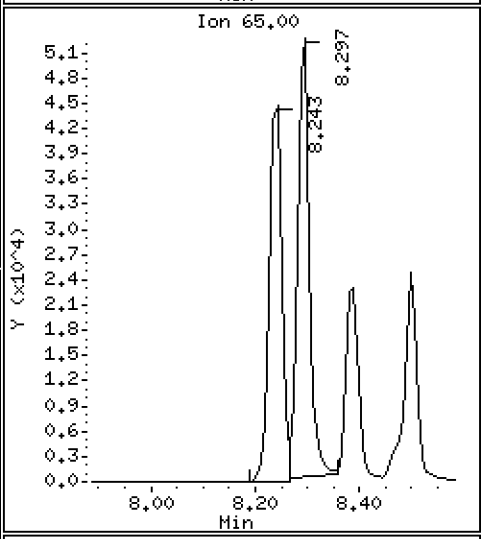
3 Phenol

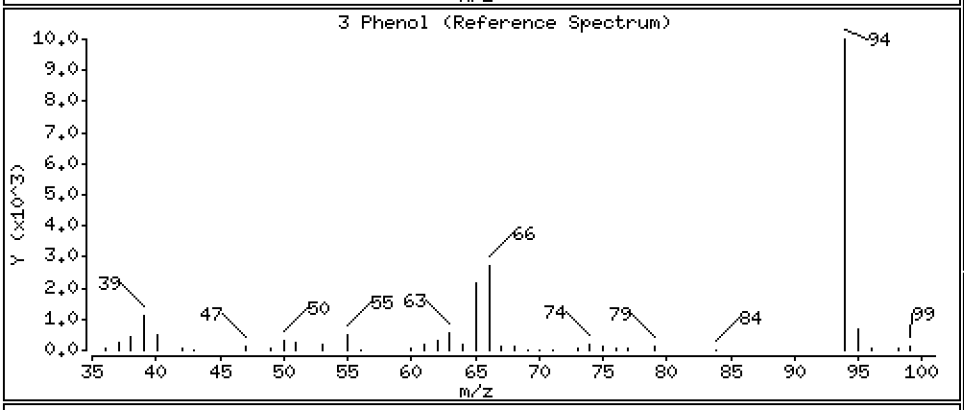
Concentration: 4.507 ug/mL

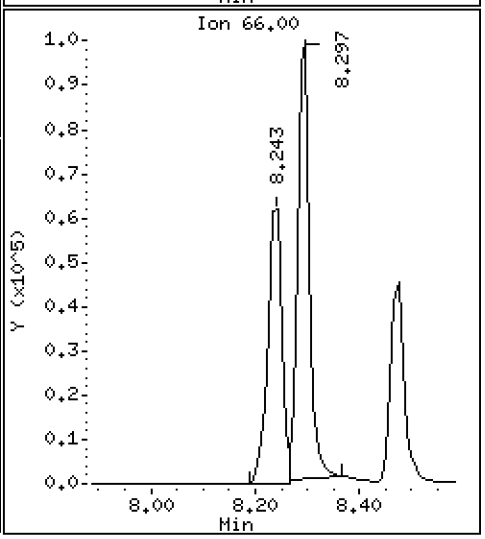


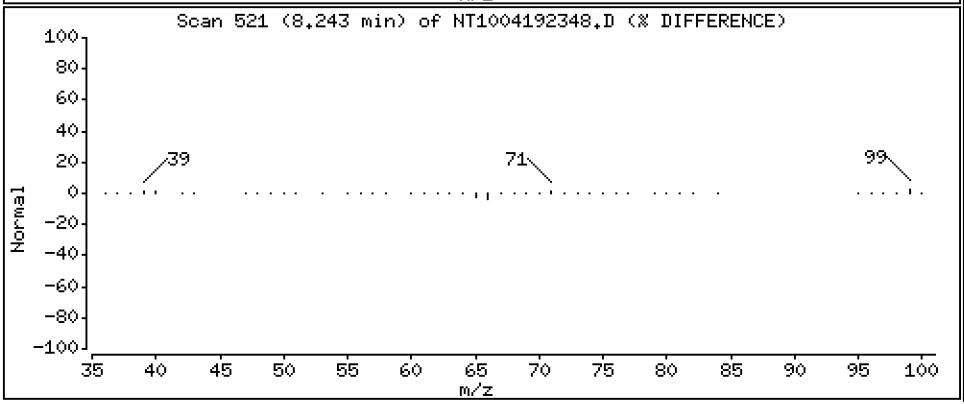












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

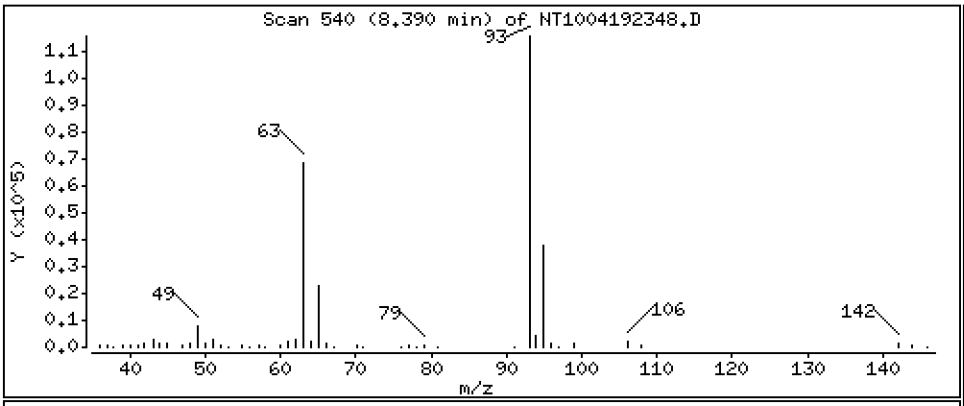
Operator: VTS

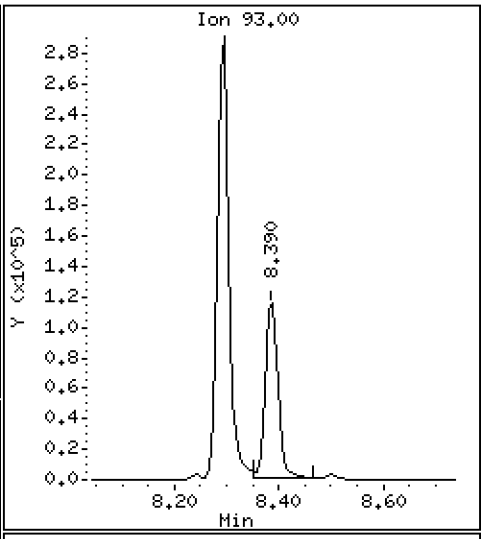
Column phase: ZB-5msi

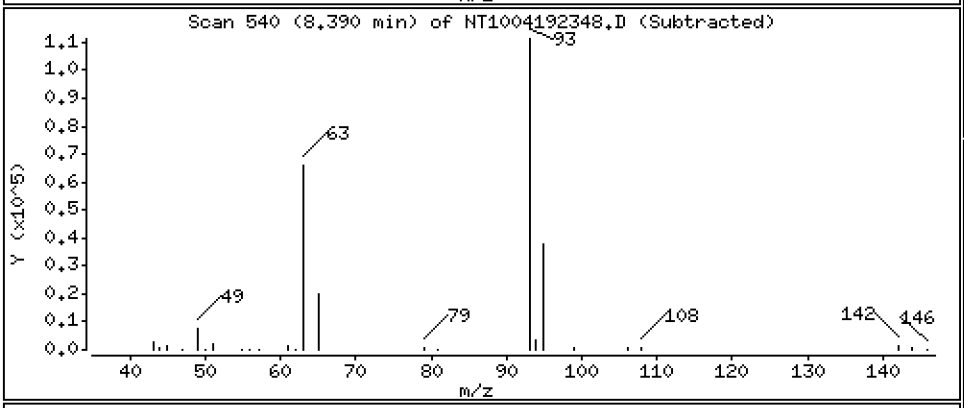
Column diameter: 0.25

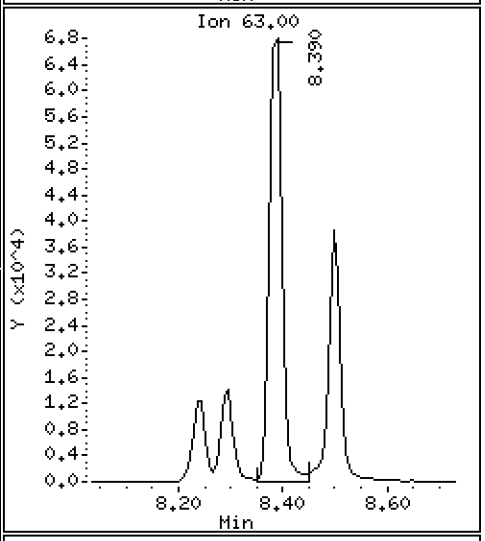
4 Bis(2-Chloroethyl)ether

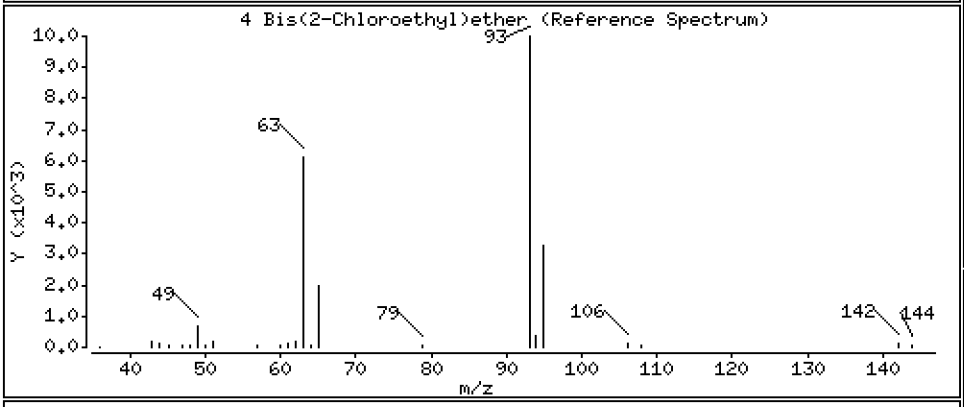
Concentration: 4.455 ug/mL

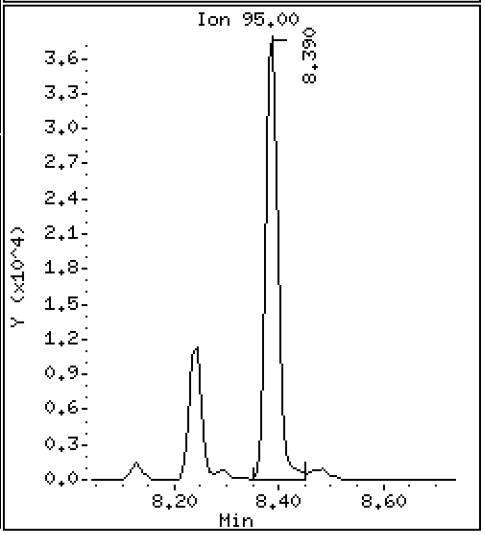


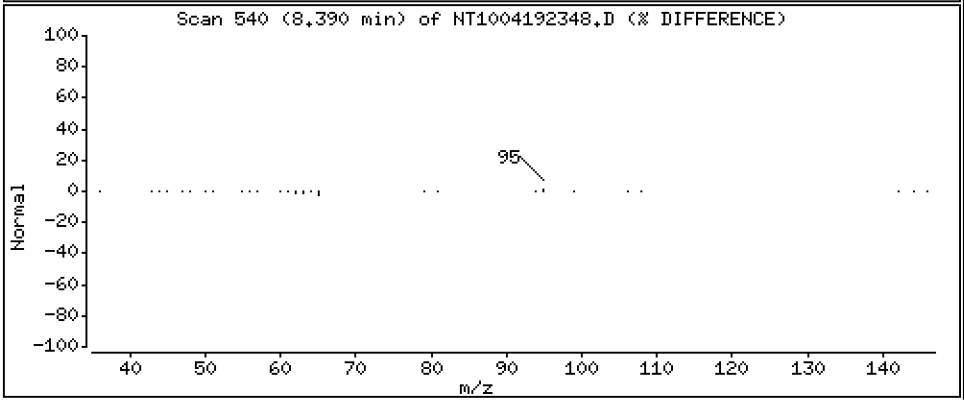












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

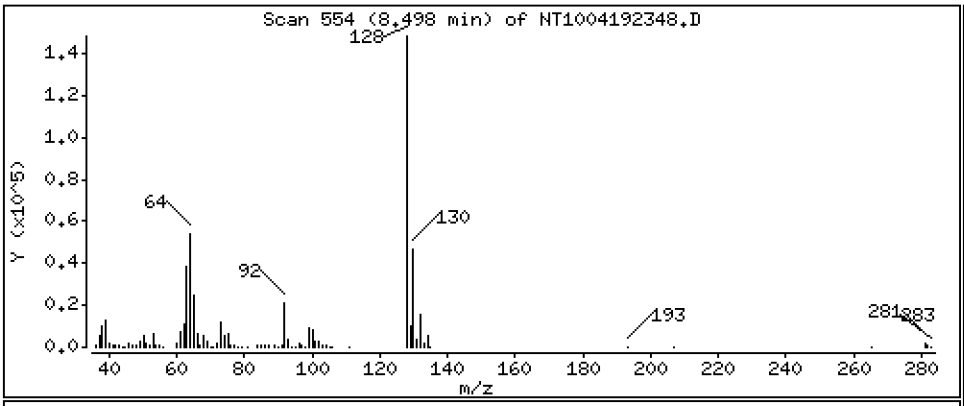
Operator: VTS

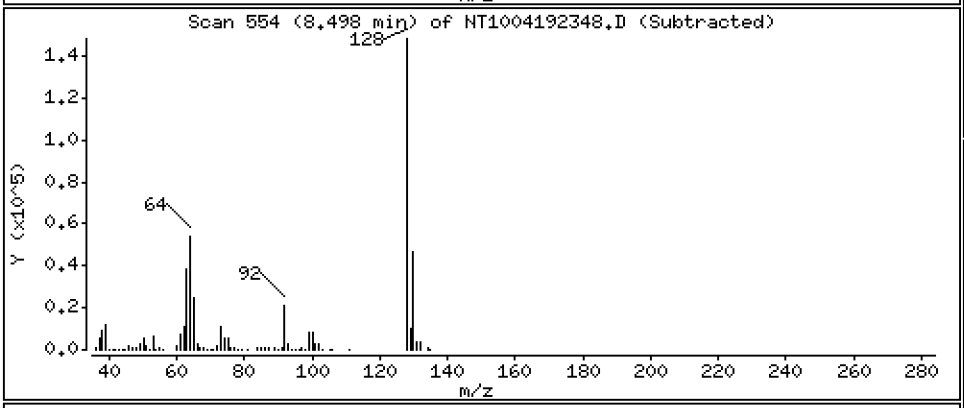
Column phase: ZB-5msi

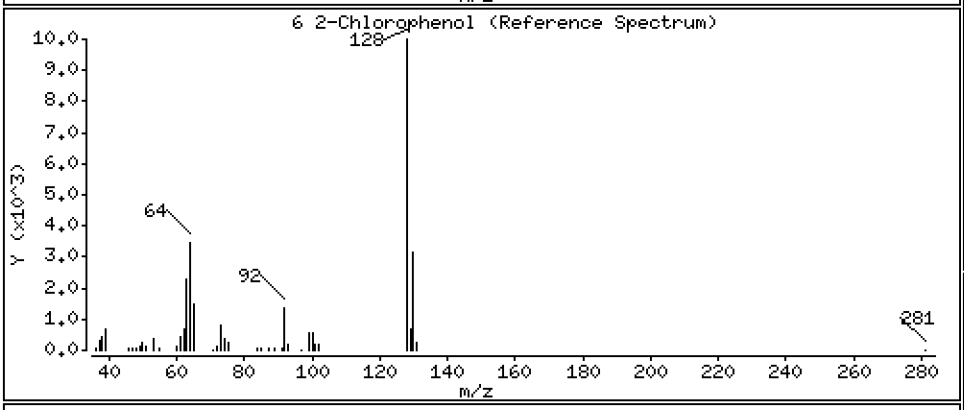
Column diameter: 0.25

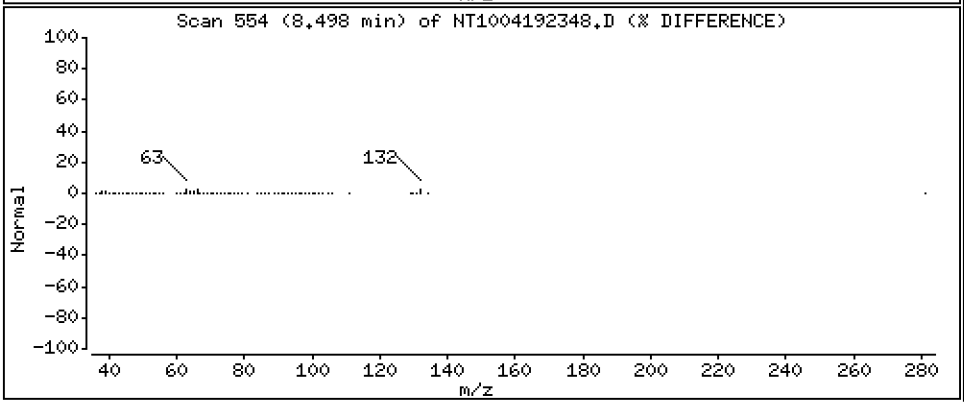
6 2-Chlorophenol

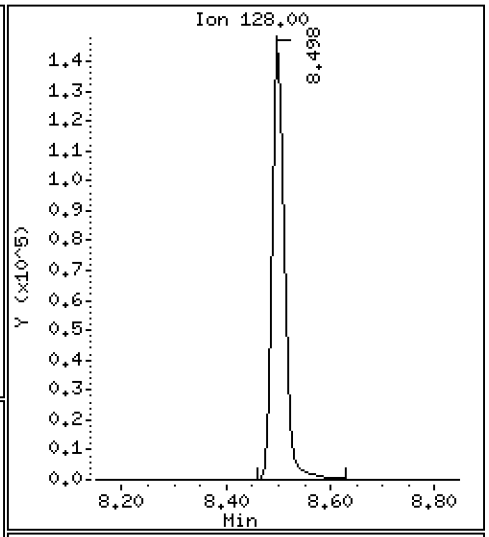
Concentration: 5.342 ug/mL

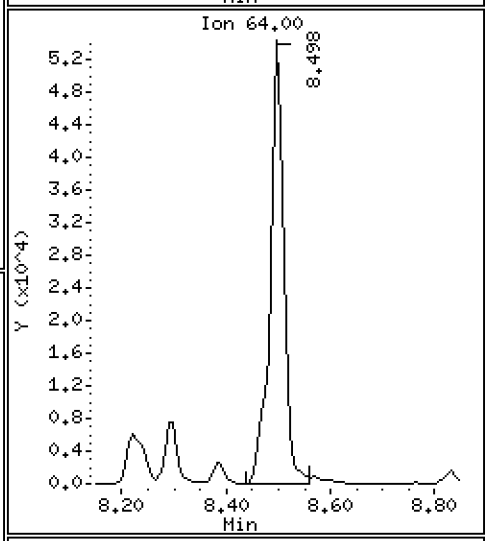


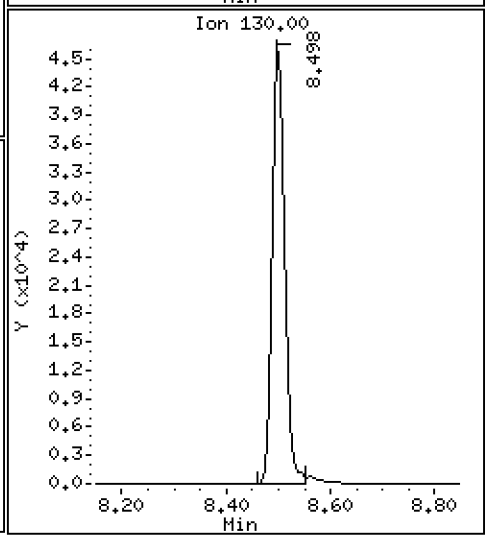












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

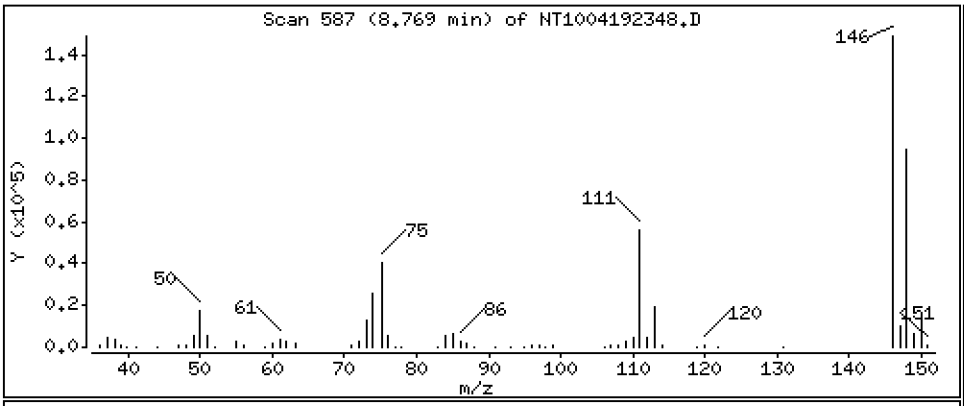
Operator: VTS

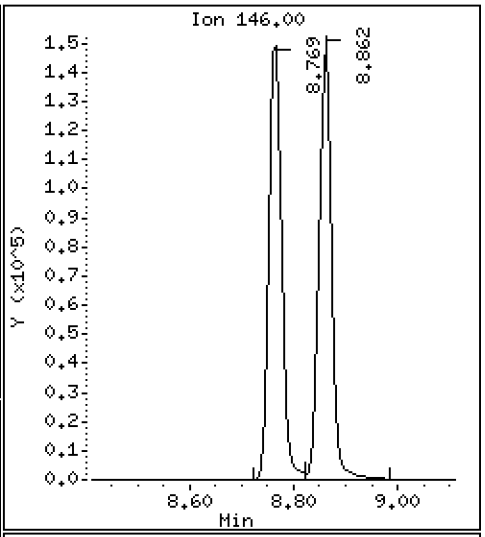
Column phase: ZB-5msi

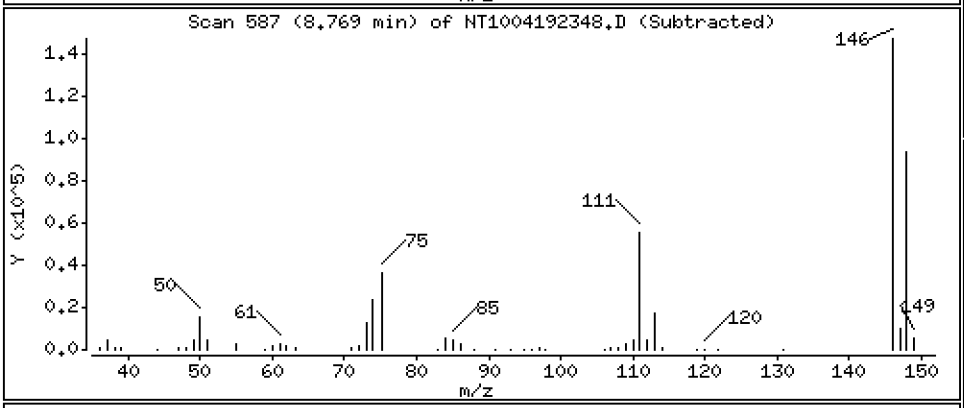
Column diameter: 0.25

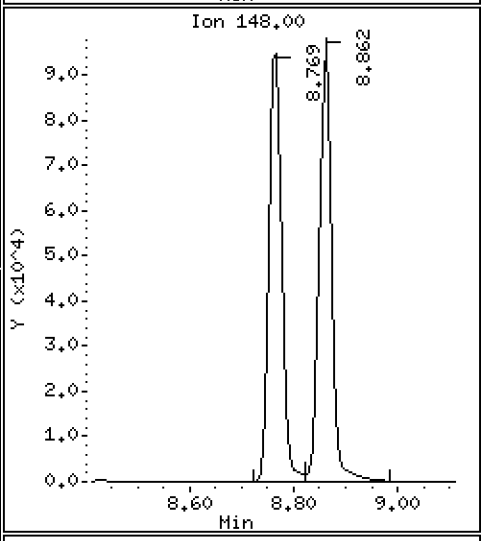
7 1,3-Dichlorobenzene

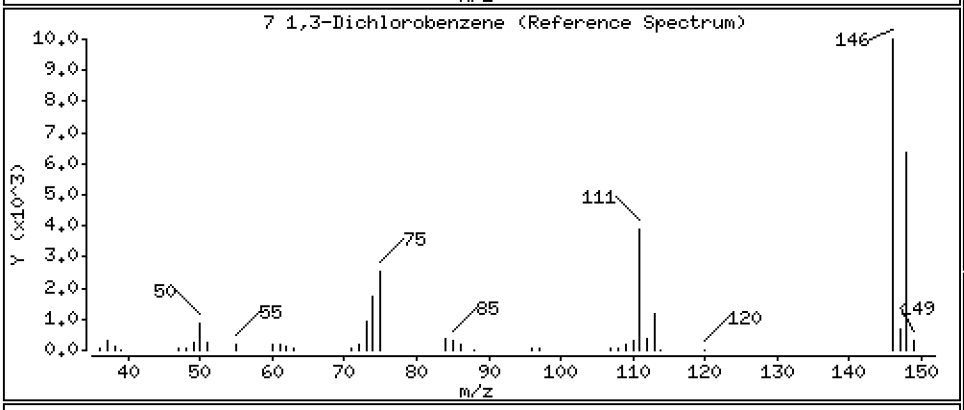
Concentration: 4.852 ug/mL

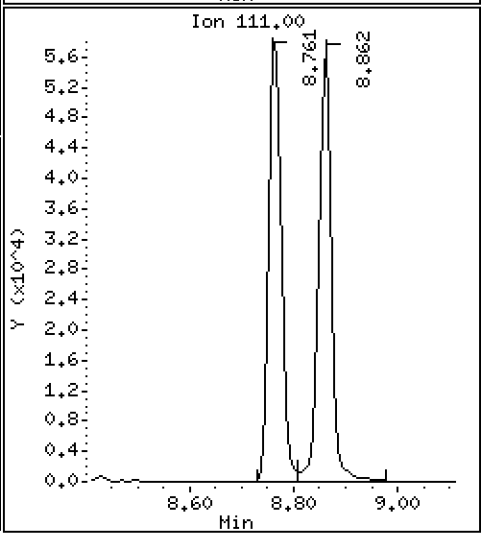


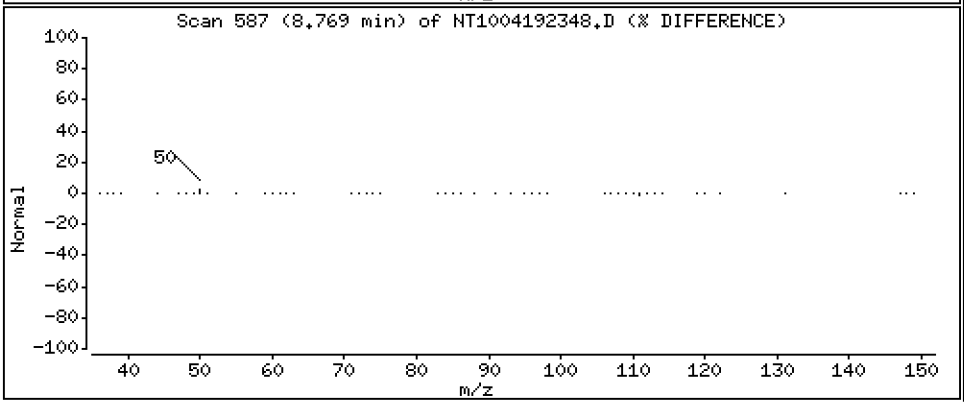












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

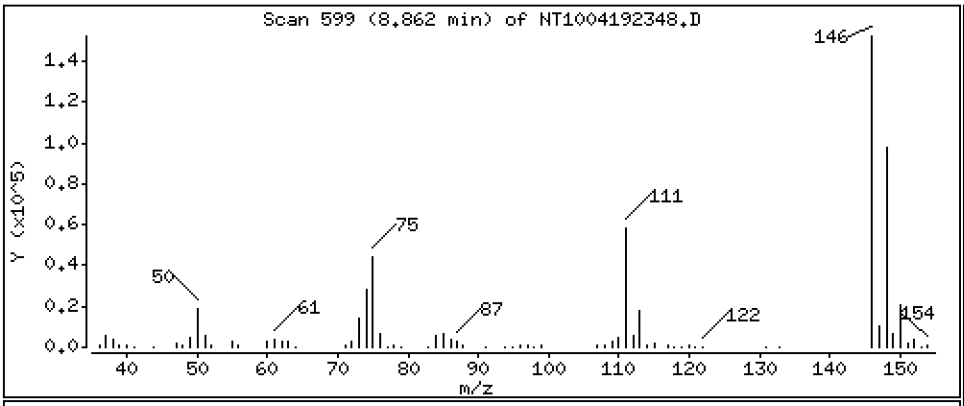
Operator: VTS

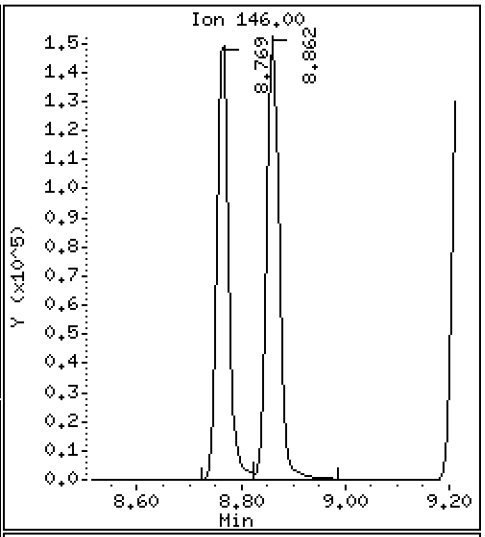
Column phase: ZB-5msi

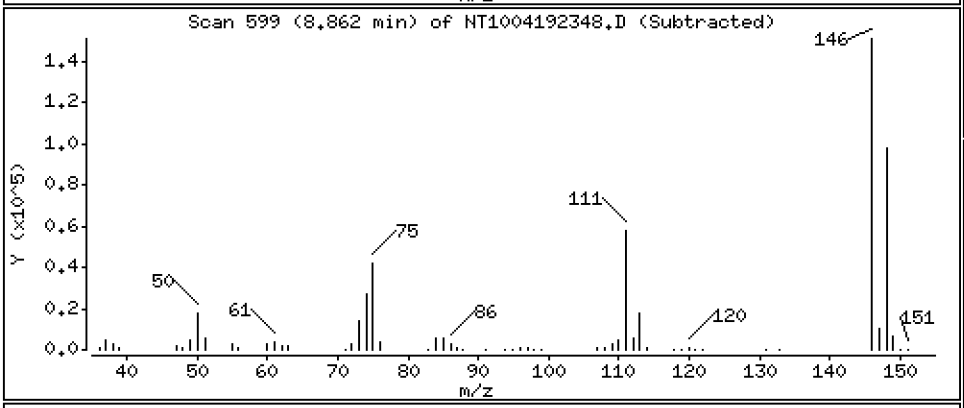
Column diameter: 0.25

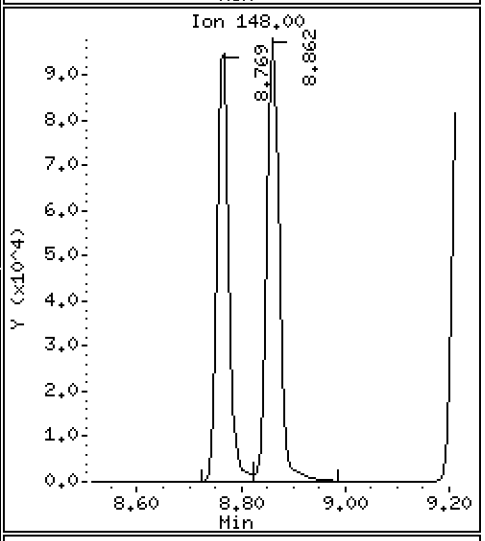
9 1,4-Dichlorobenzene

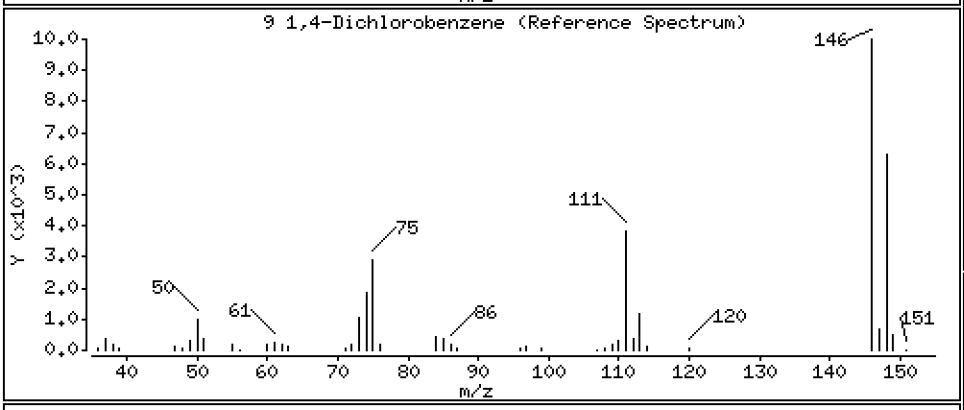
Concentration: 4.995 ug/mL

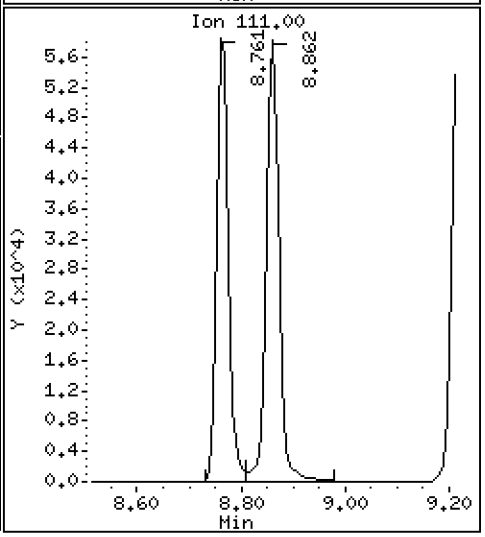


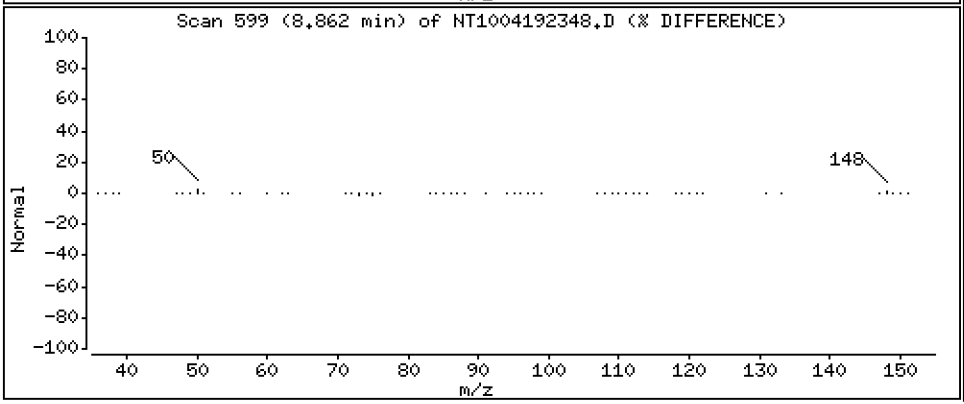












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

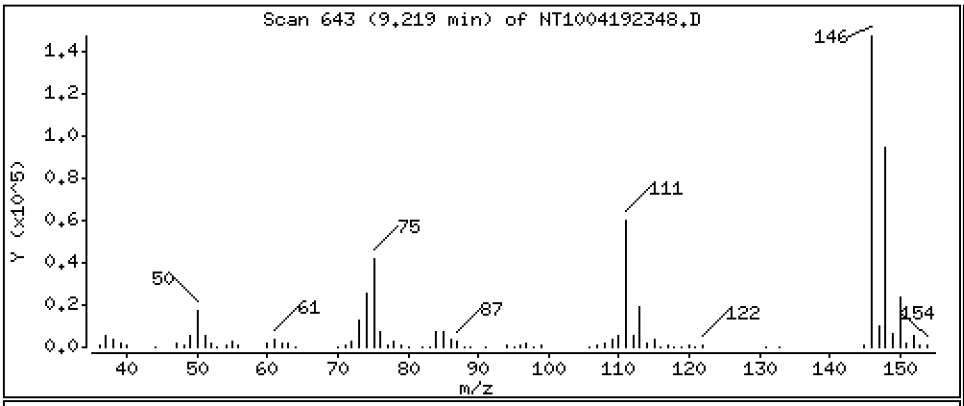
Operator: VTS

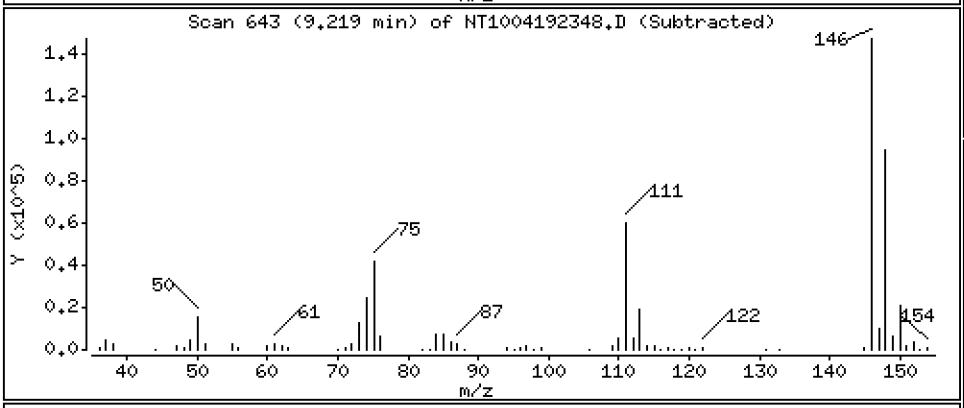
Column phase: ZB-5msi

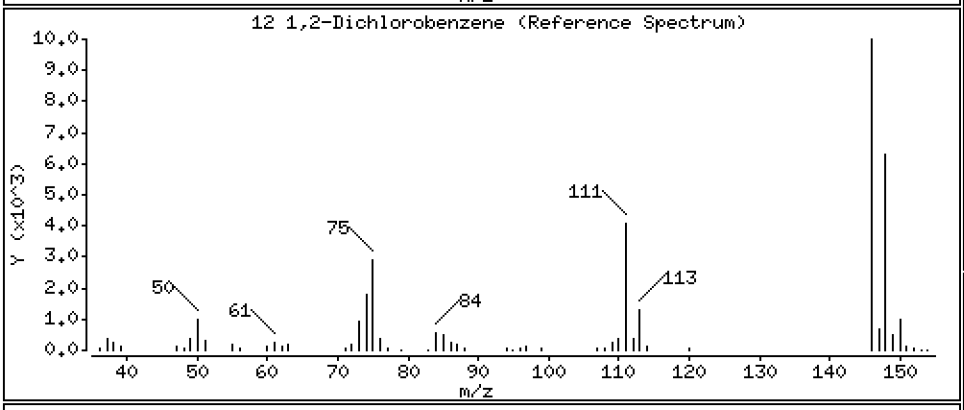
Column diameter: 0.25

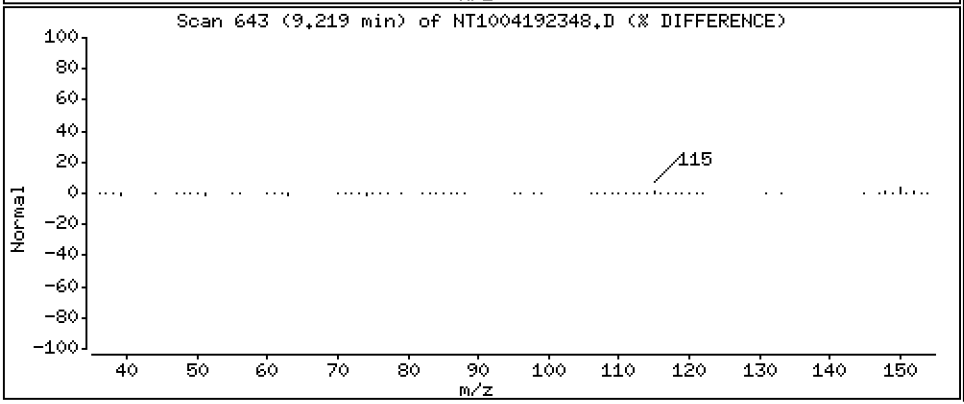
12 1,2-Dichlorobenzene

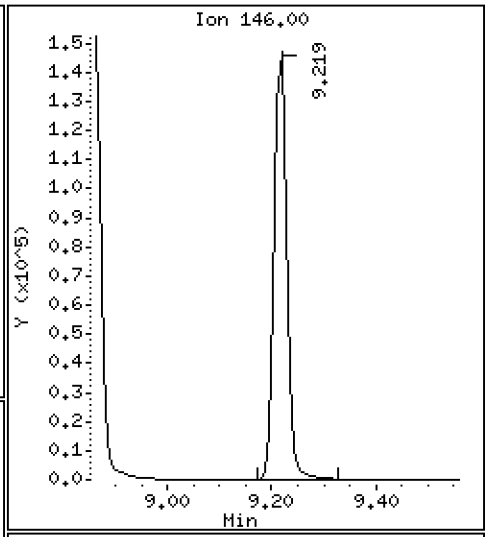
Concentration: 4.895 ug/mL

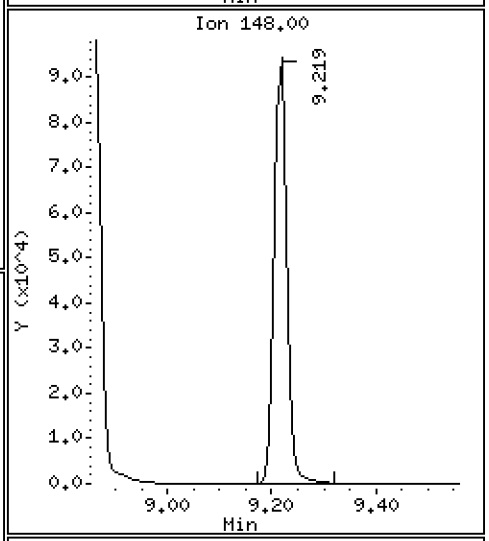


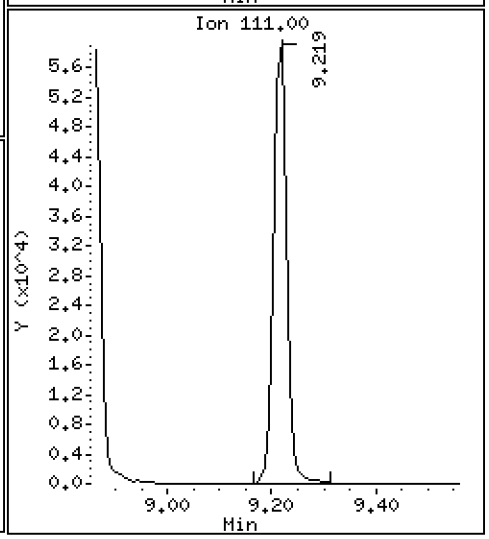












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192348.D

Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

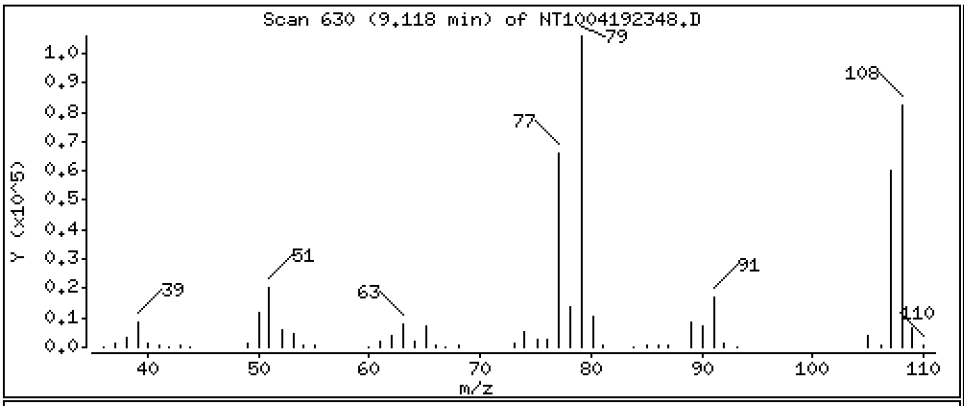
Operator: VTS

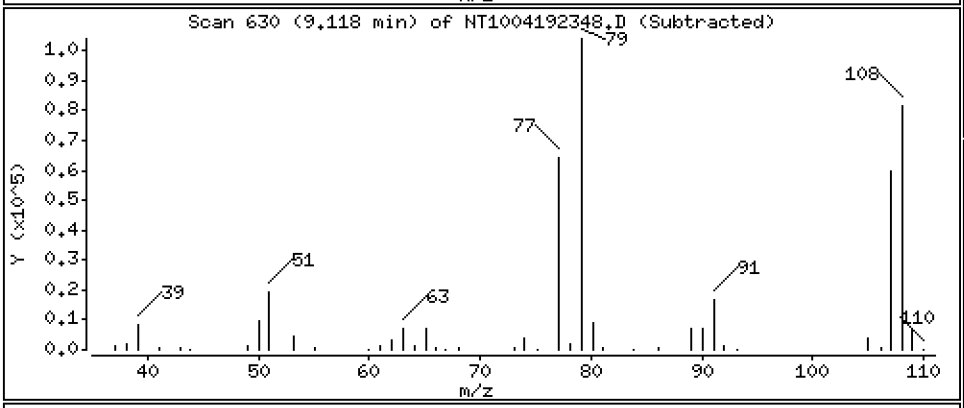
Column phase: ZB-5msi

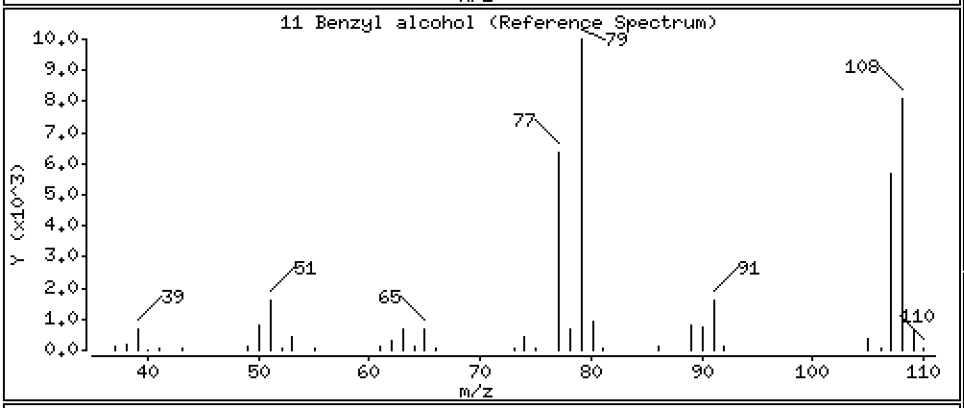
Column diameter: 0.25

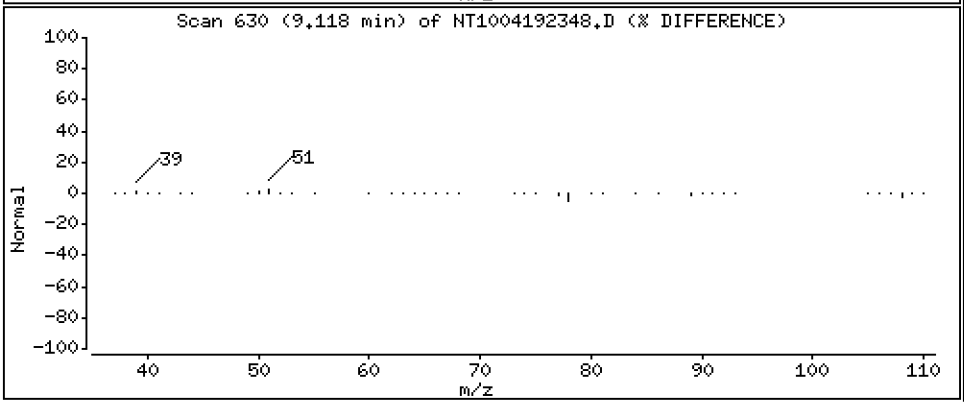
11 Benzyl alcohol

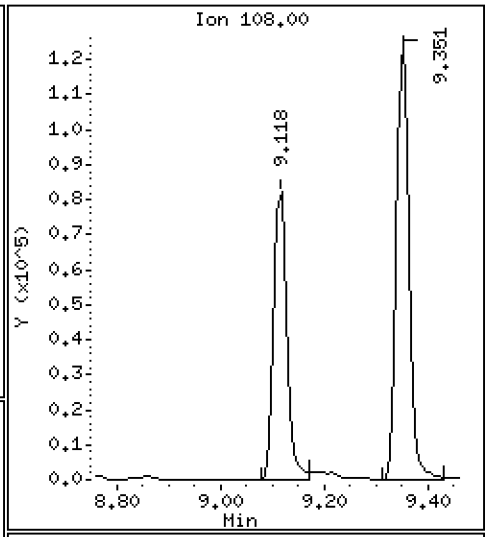
Concentration: 5.282 ug/mL

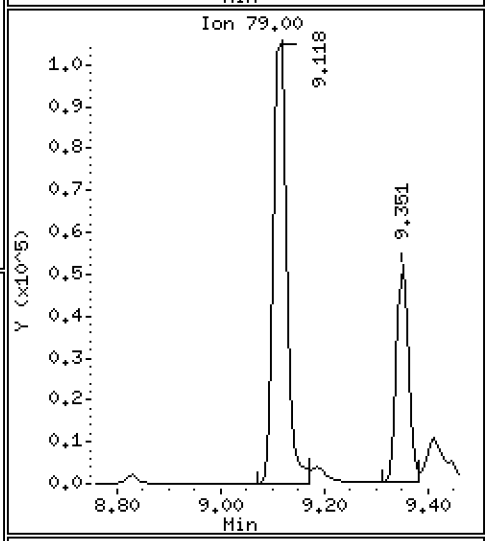


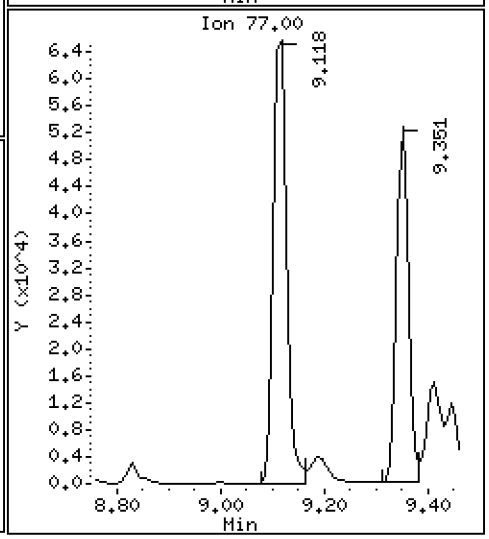












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

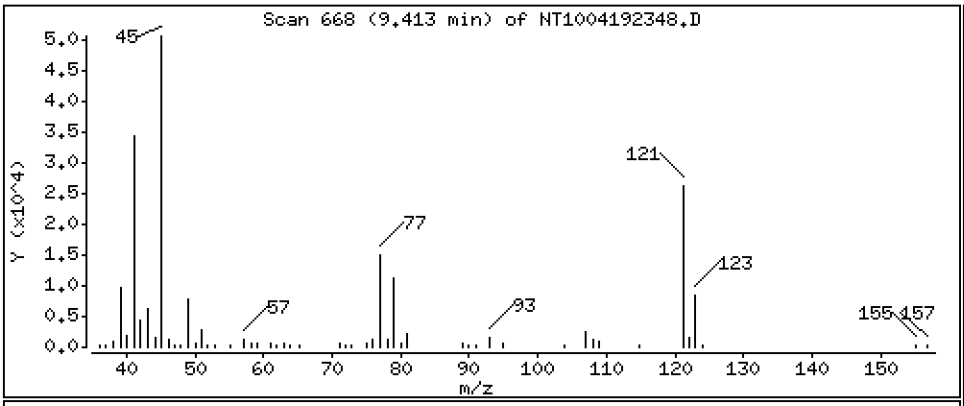
Operator: VTS

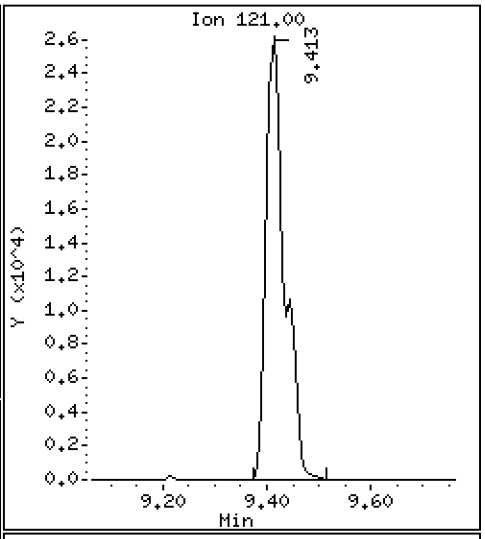
Column phase: ZB-5msi

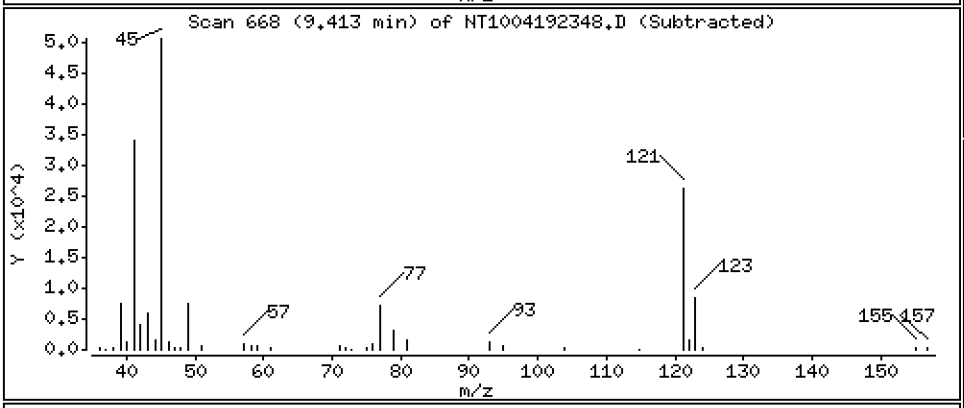
Column diameter: 0.25

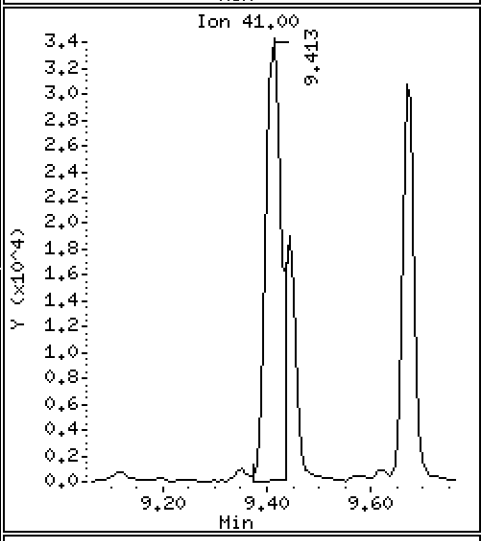
14 2,2'-oxybis(1-Chloropropane)

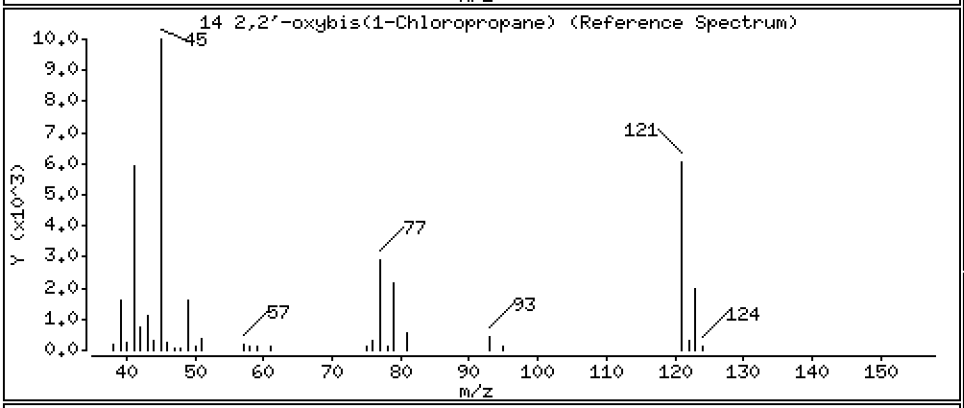
Concentration: 5.092 ug/mL

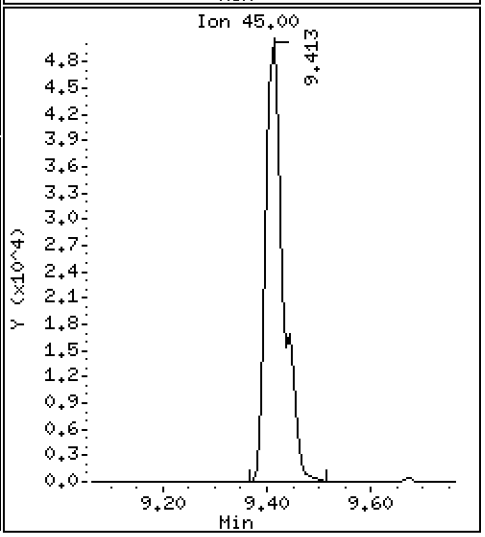


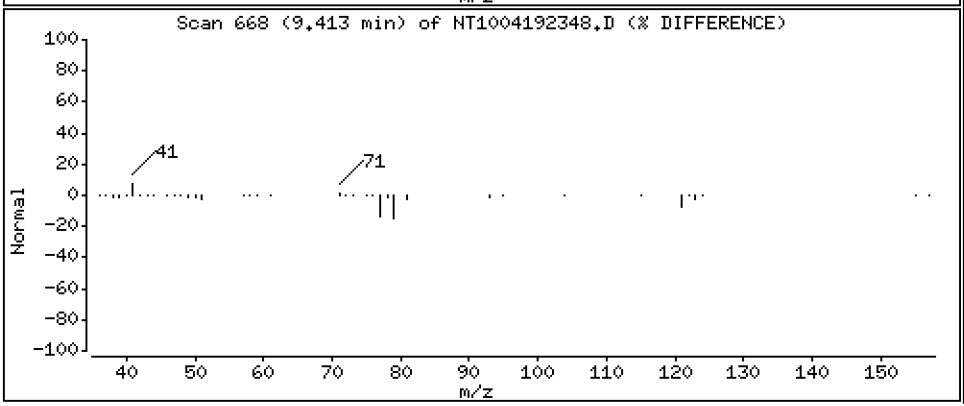












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

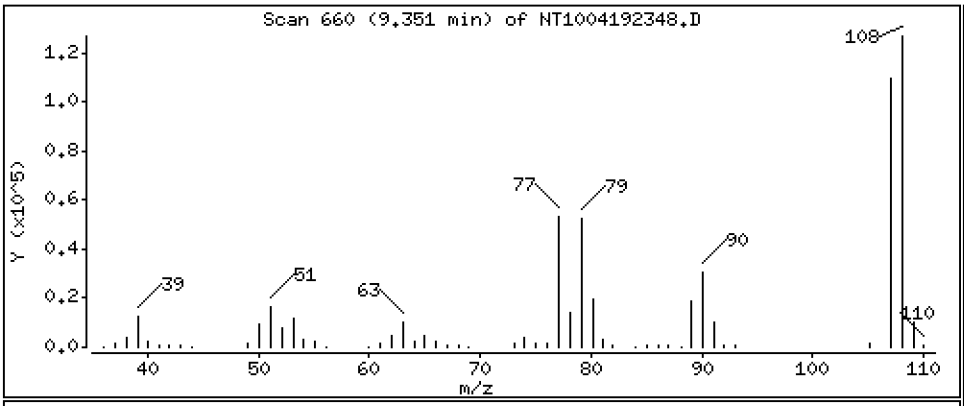
Operator: VTS

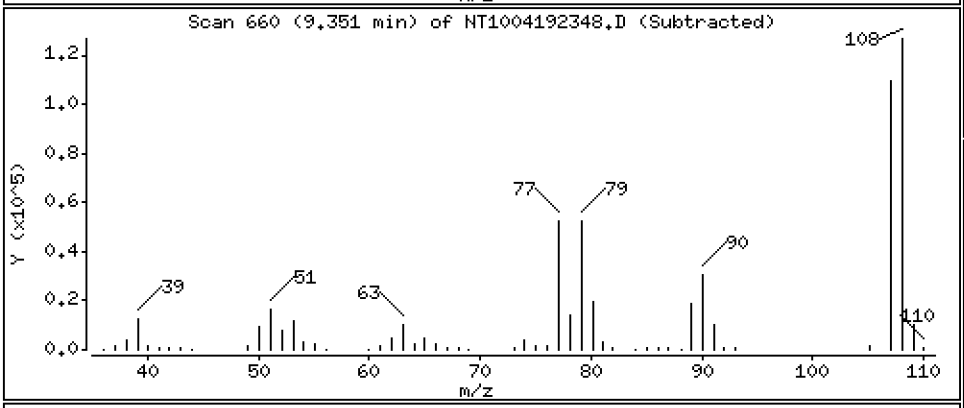
Column phase: ZB-5msi

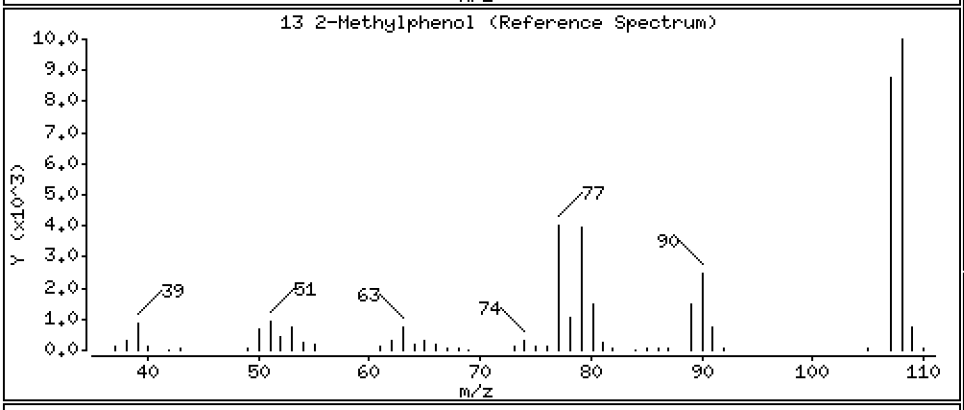
Column diameter: 0.25

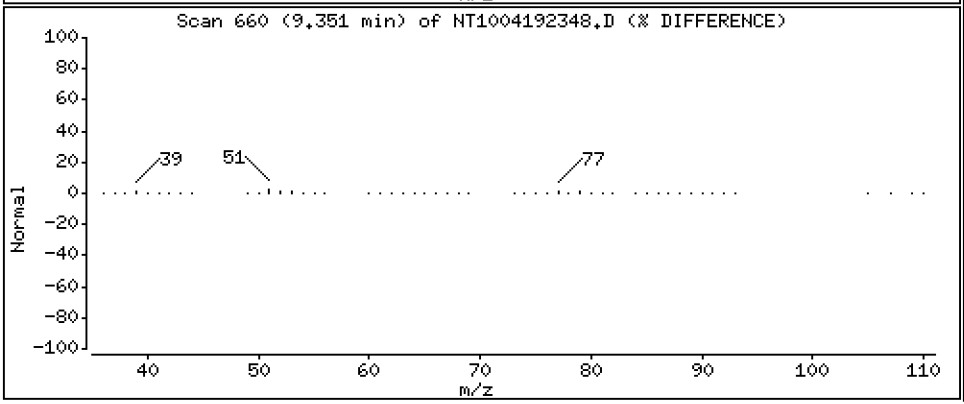
13 2-Methylphenol

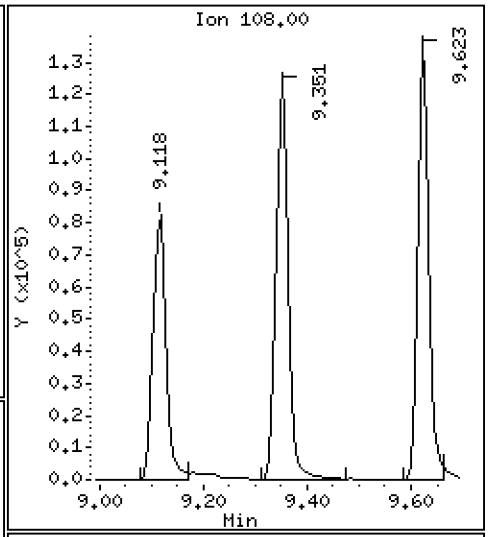
Concentration: 4.862 ug/mL

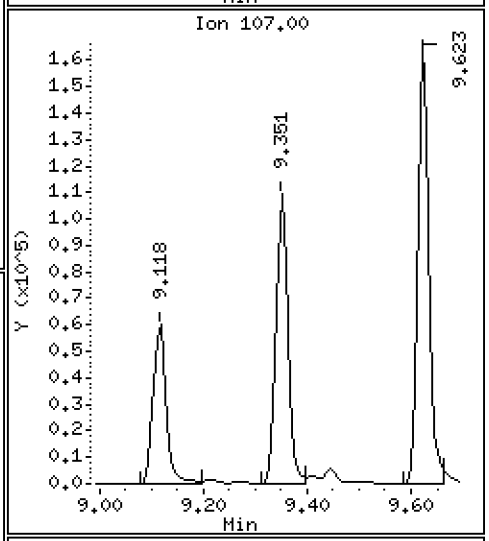


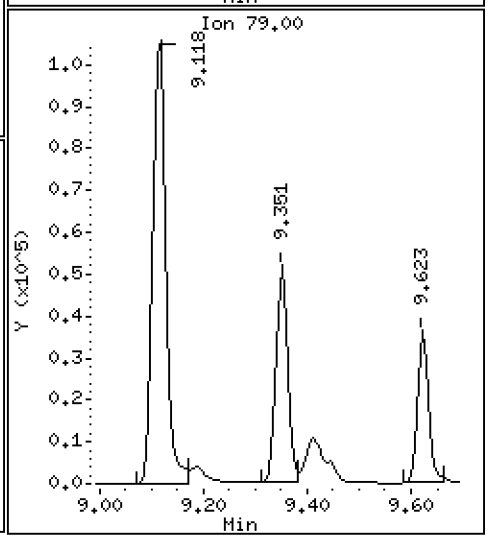












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

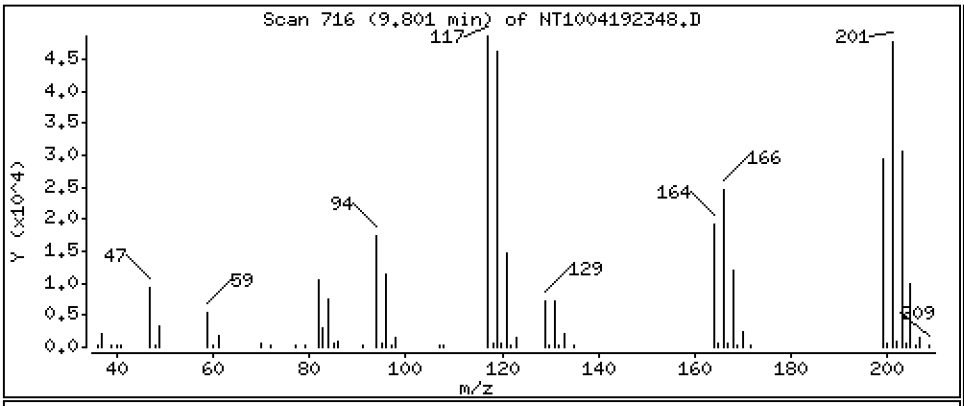
Operator: VTS

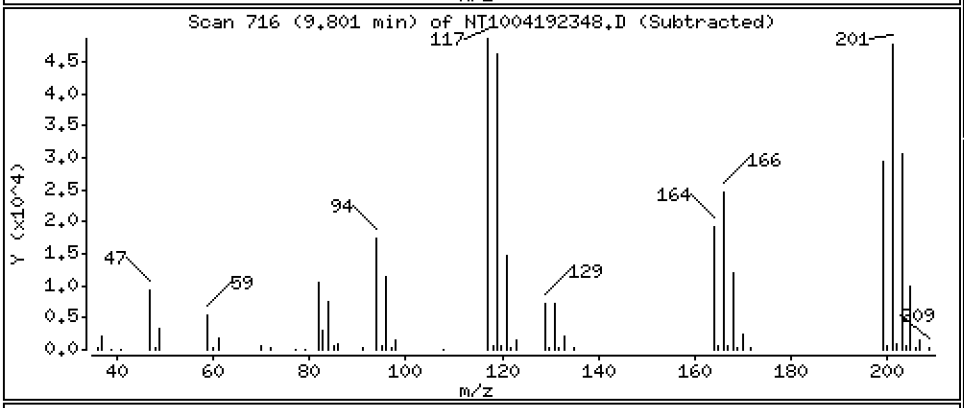
Column phase: ZB-5msi

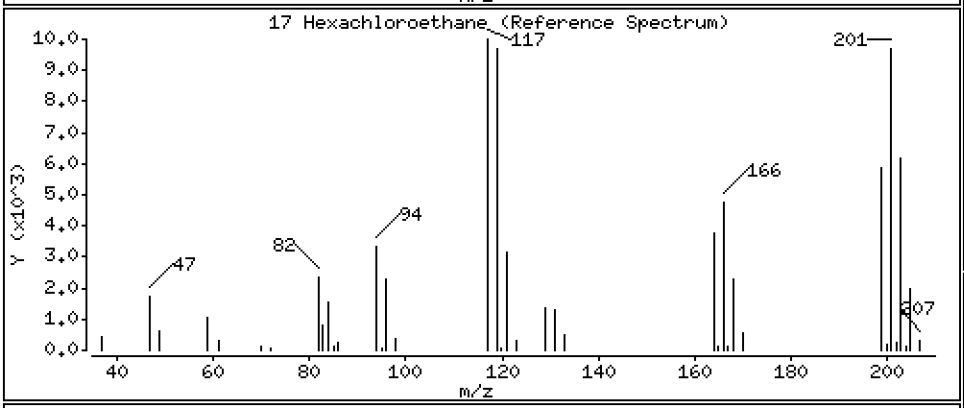
Column diameter: 0.25

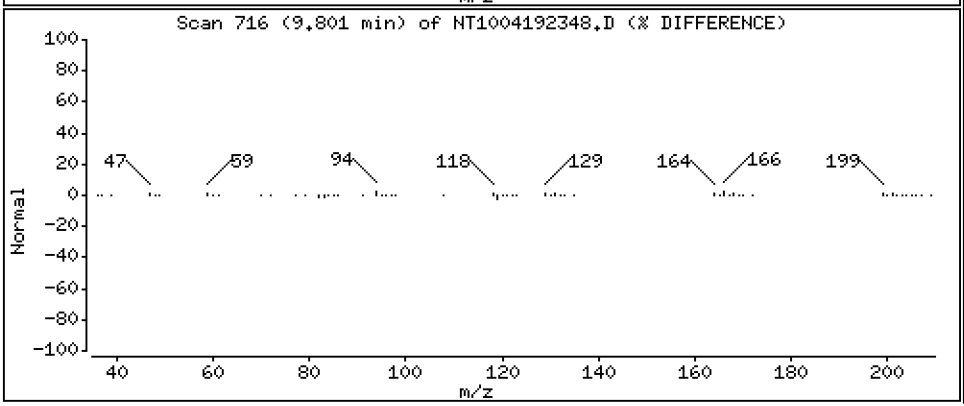
17 Hexachloroethane

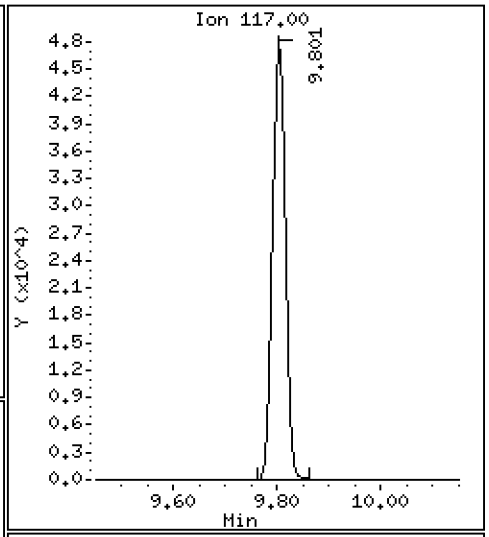
Concentration: 3.874 ug/mL

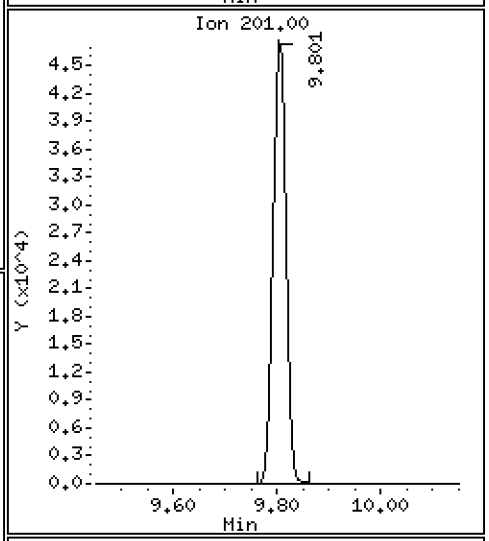


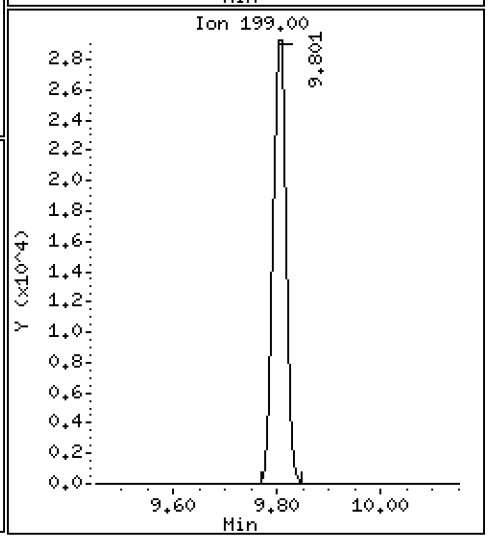












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

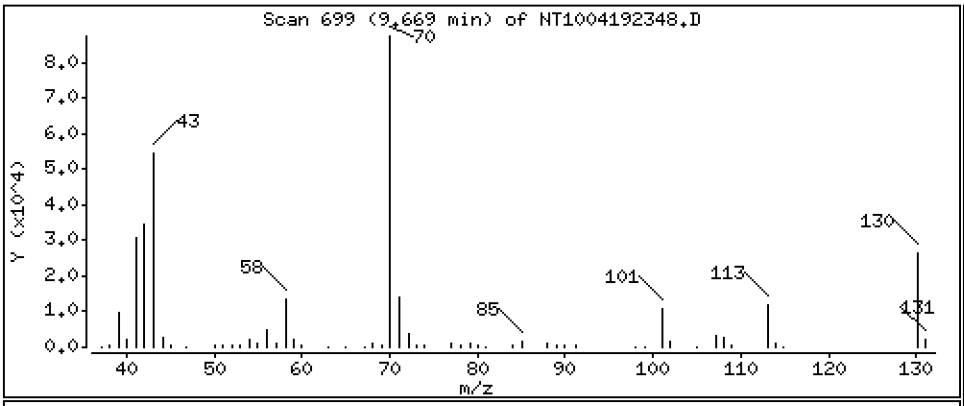
Operator: VTS

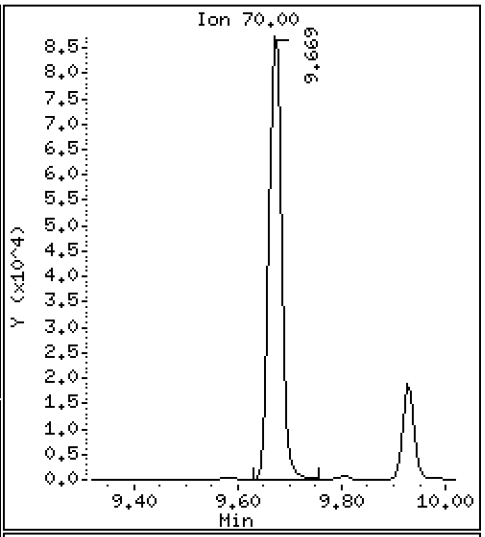
Column phase: ZB-5msi

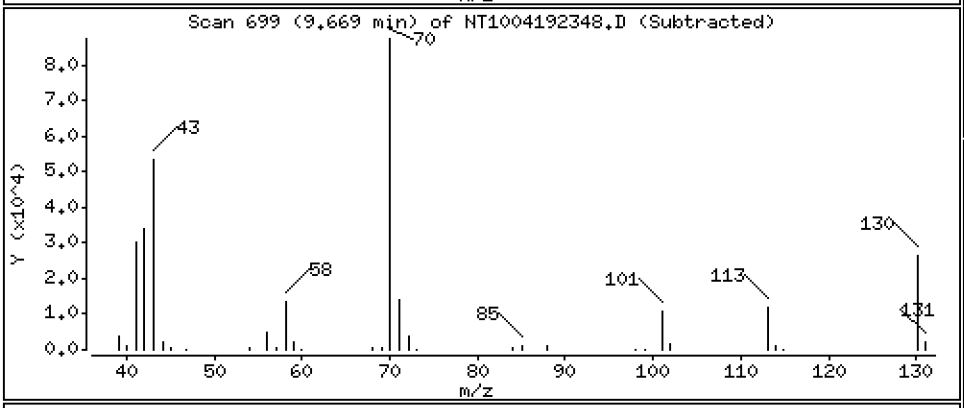
Column diameter: 0.25

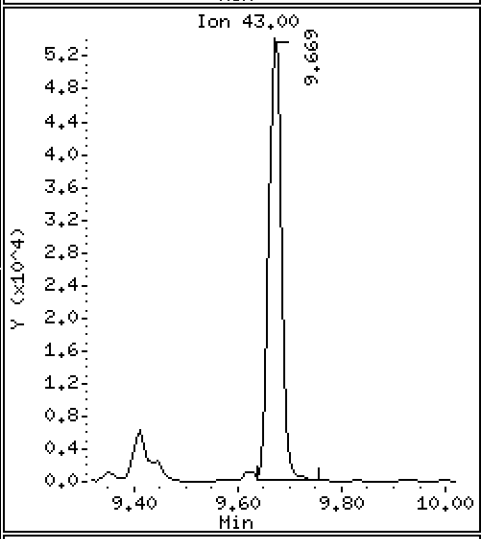
16 N-Nitroso-di-n-propylamine

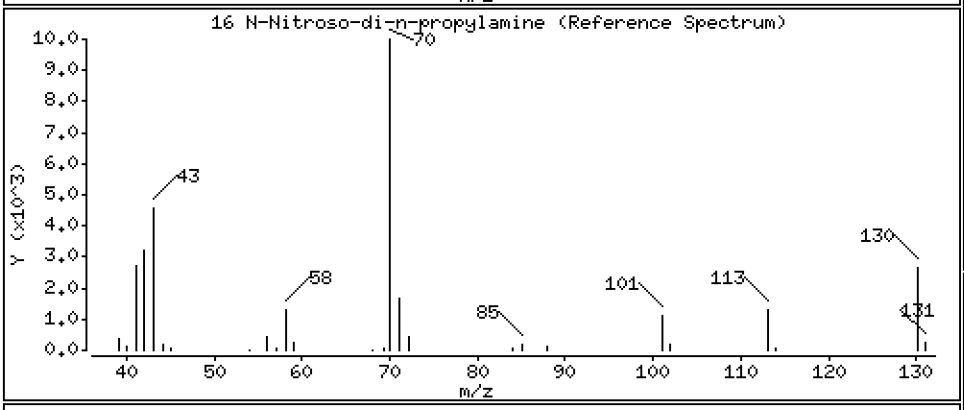
Concentration: 4.393 ug/mL

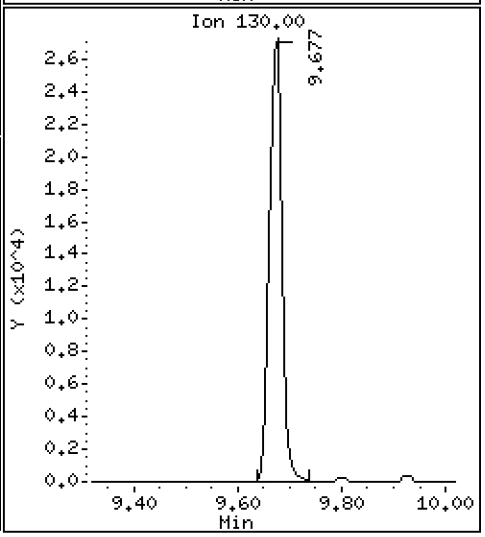


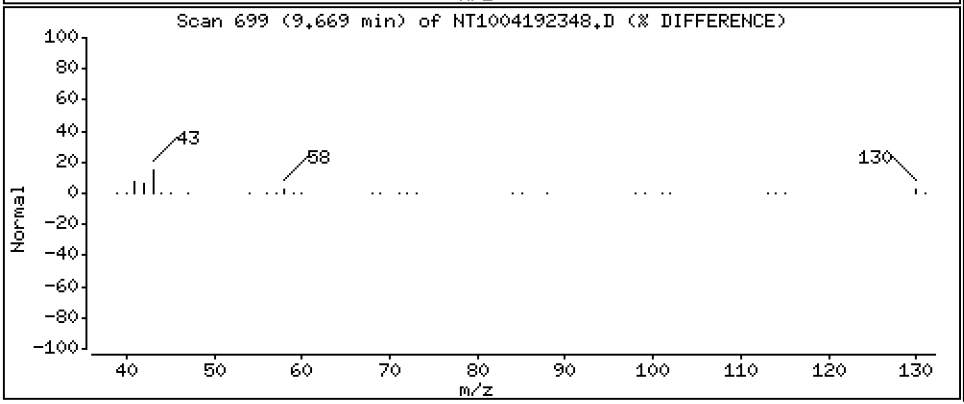












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

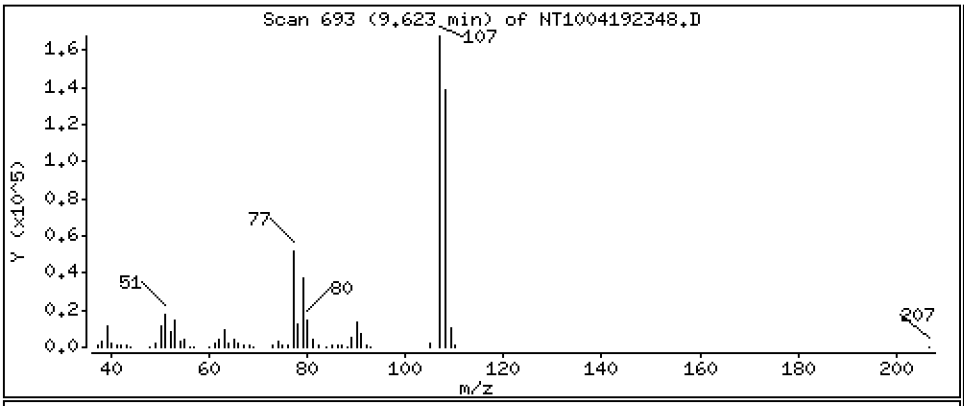
Operator: VTS

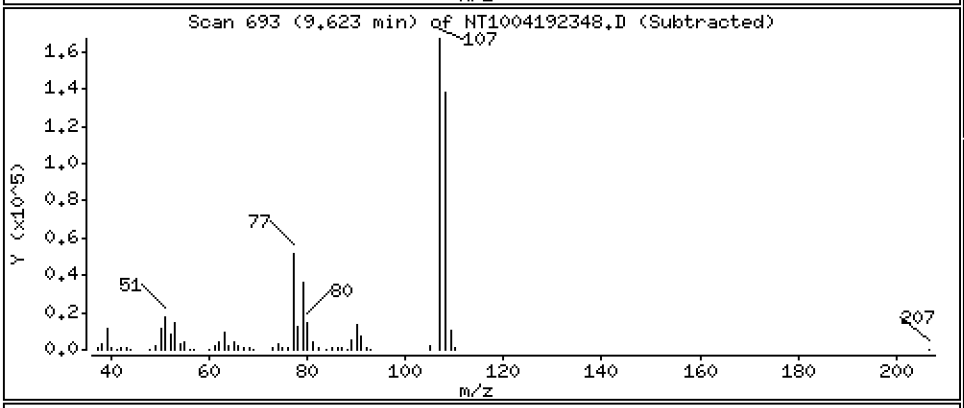
Column phase: ZB-5msi

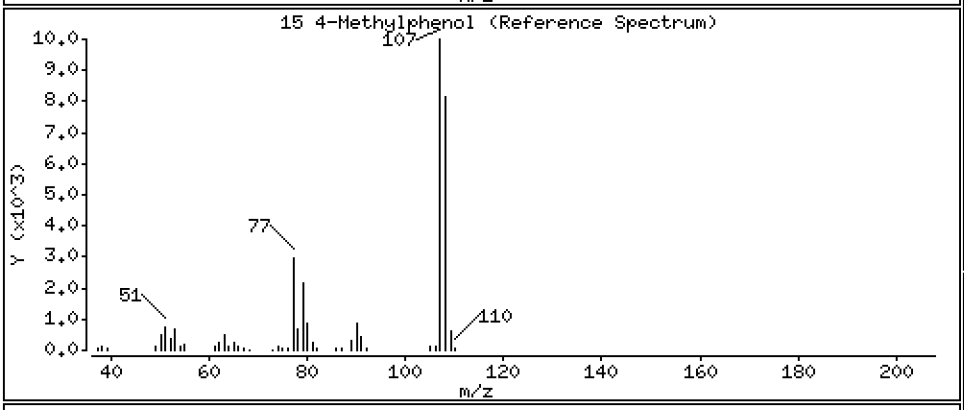
Column diameter: 0.25

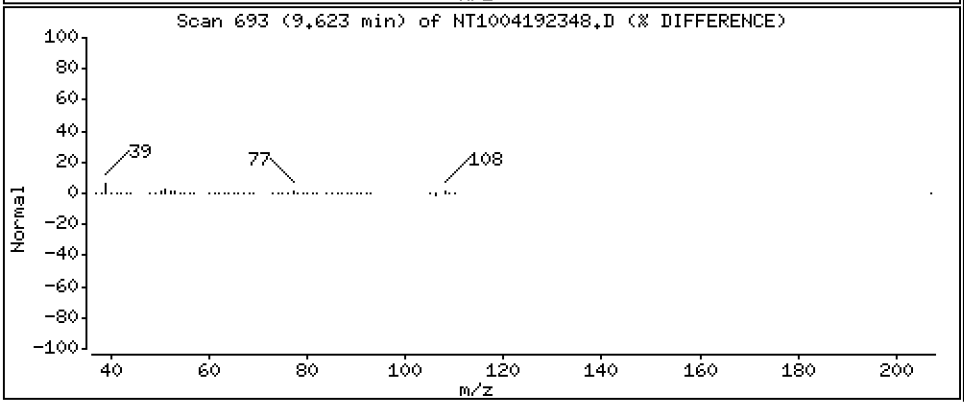
15 4-Methylphenol

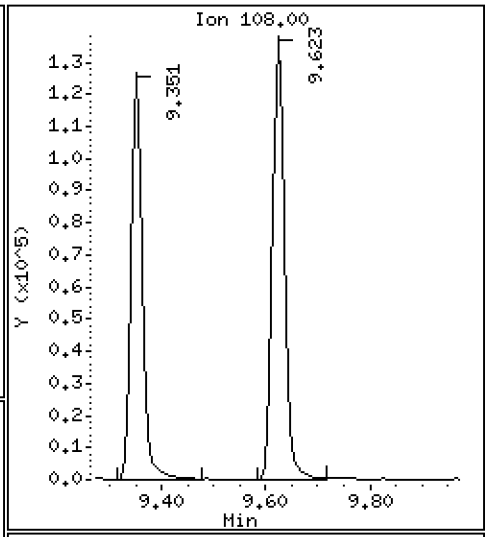
Concentration: 4.854 ug/mL

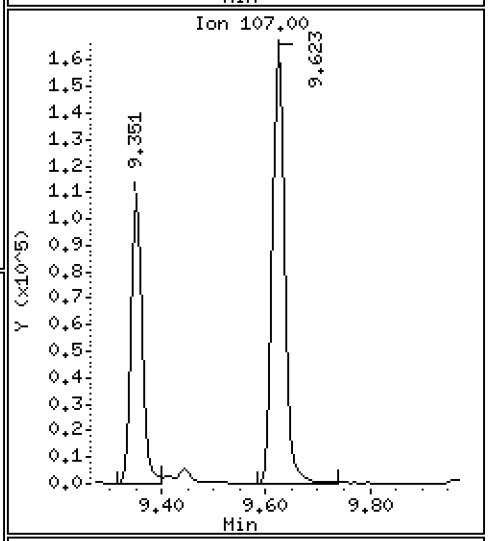


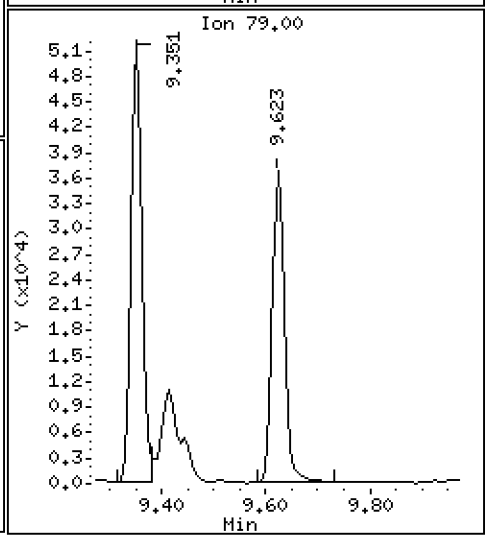












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

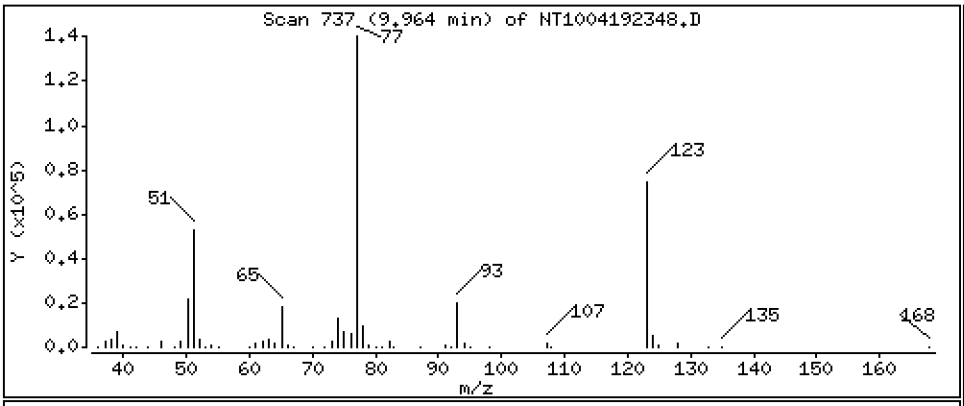
Operator: VTS

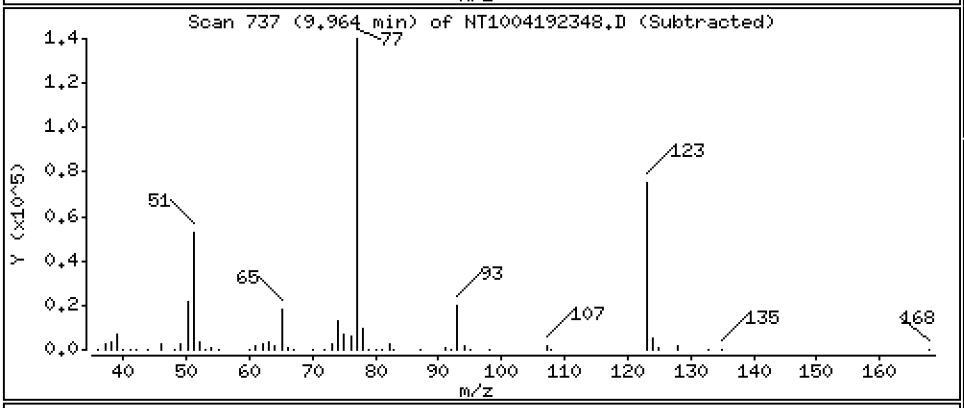
Column phase: ZB-5msi

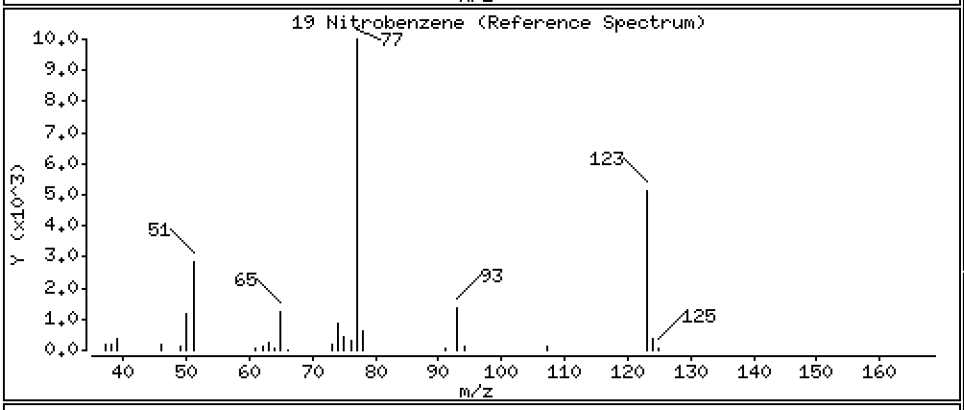
Column diameter: 0.25

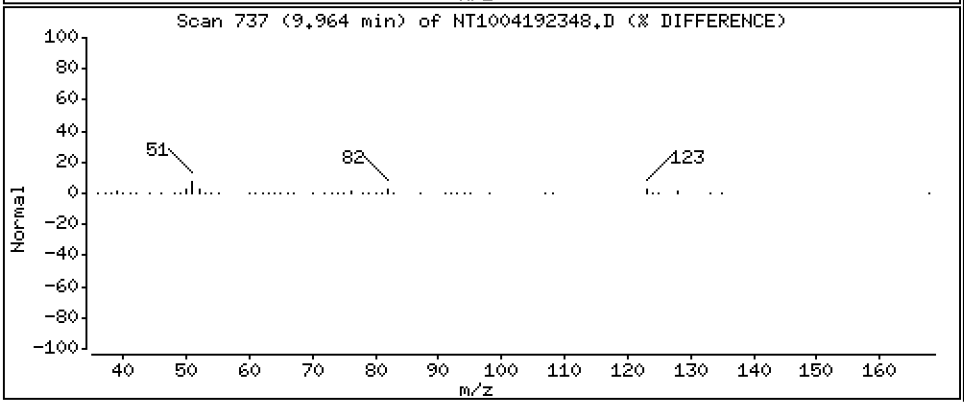
19 Nitrobenzene

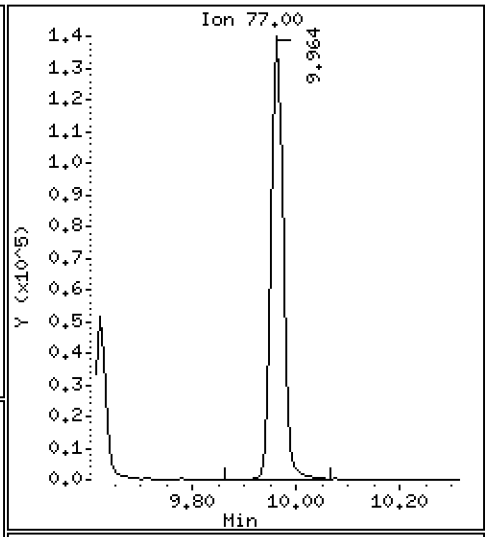
Concentration: 4.370 ug/mL

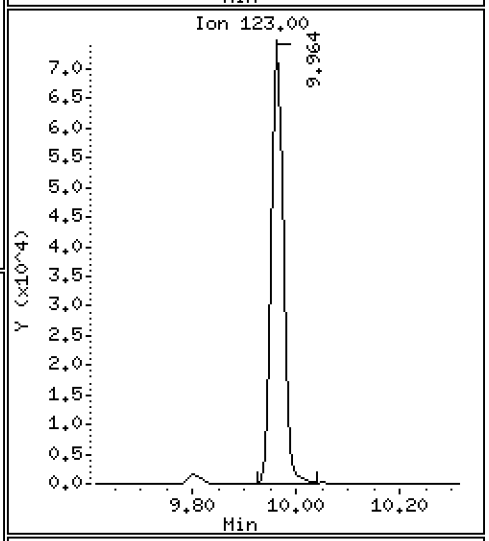


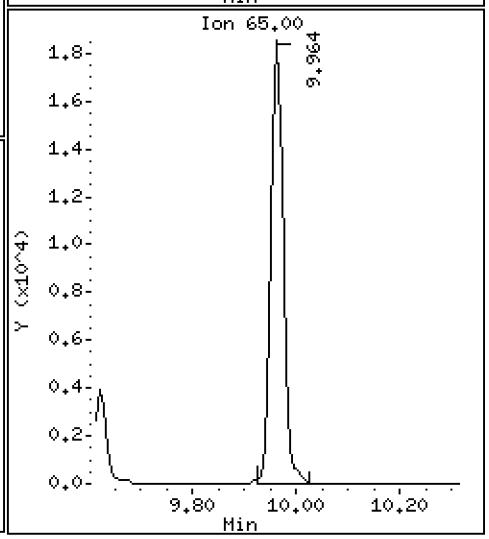












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

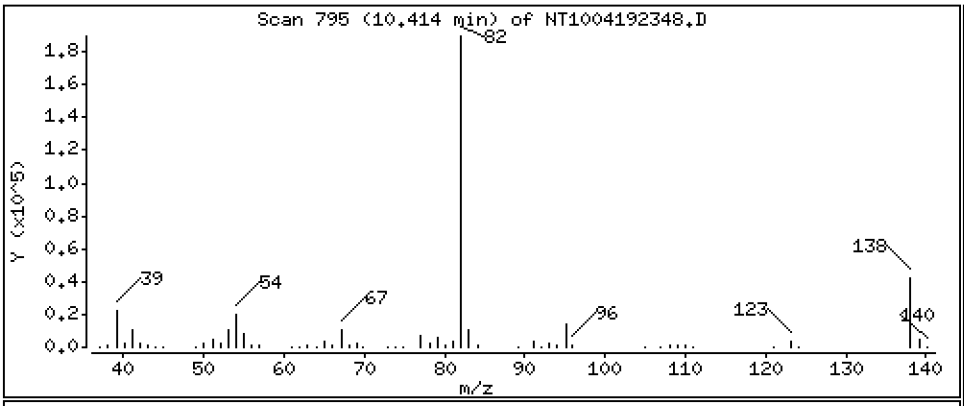
Operator: VTS

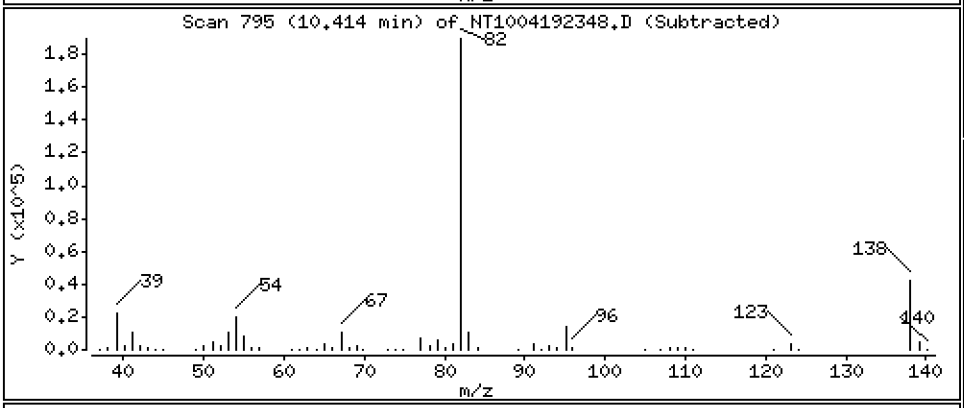
Column phase: ZB-5msi

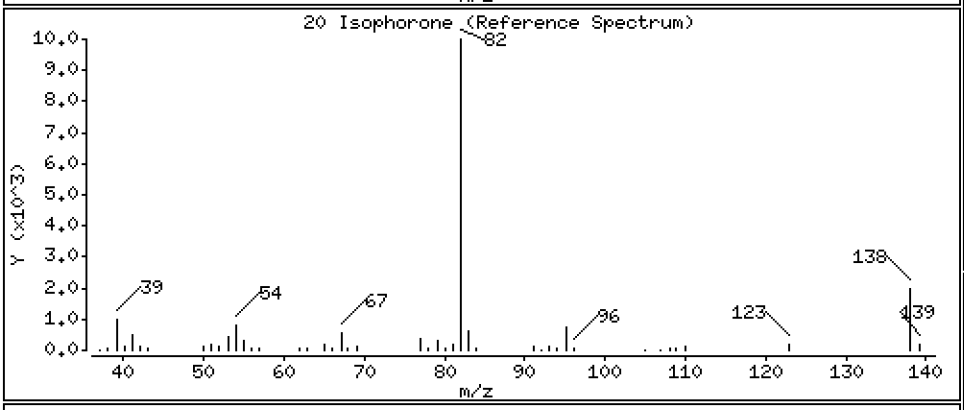
Column diameter: 0.25

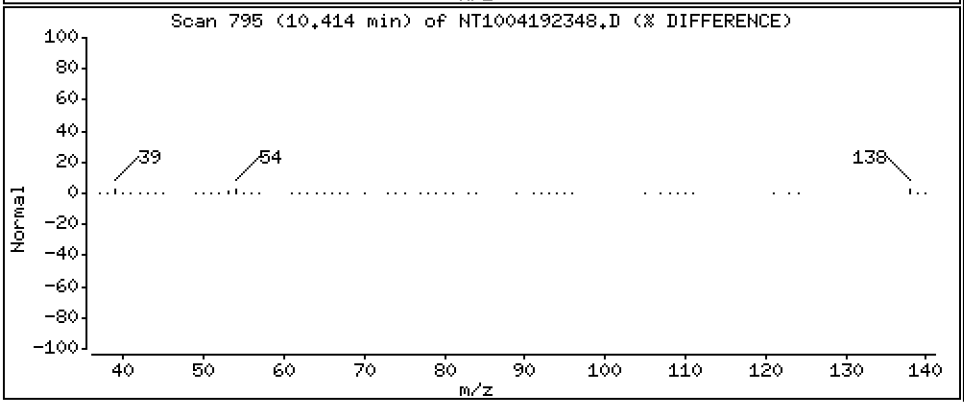
20 Isophorone

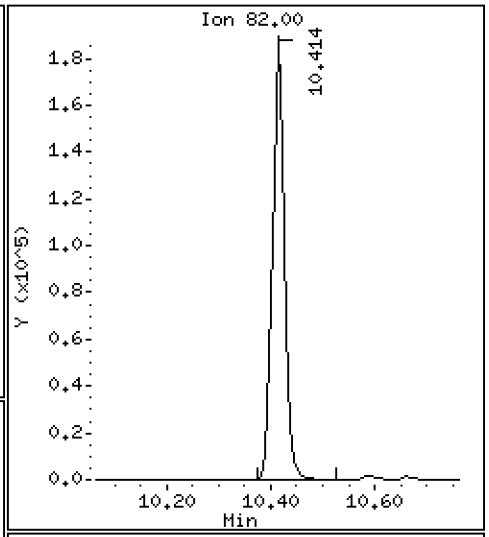
Concentration: 5.221 ug/mL

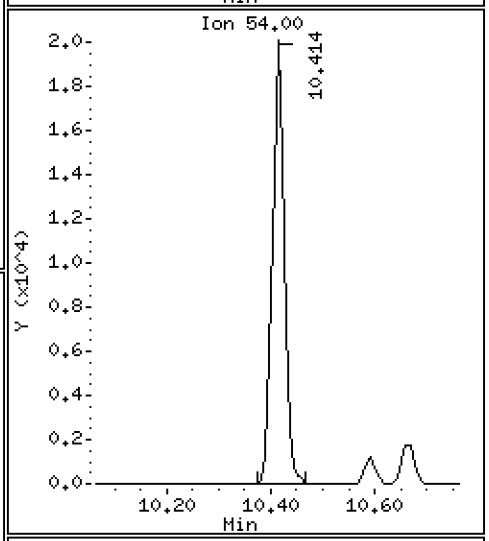


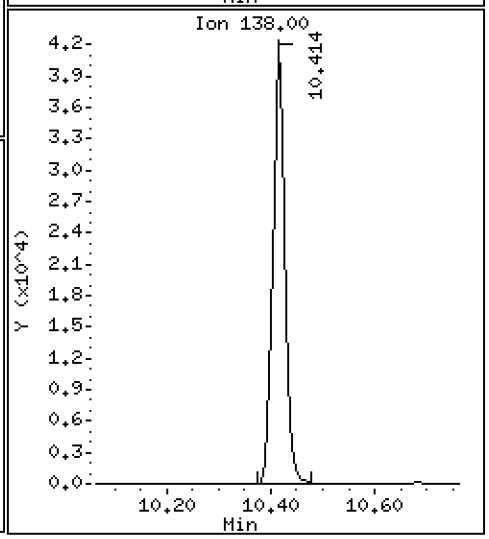












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

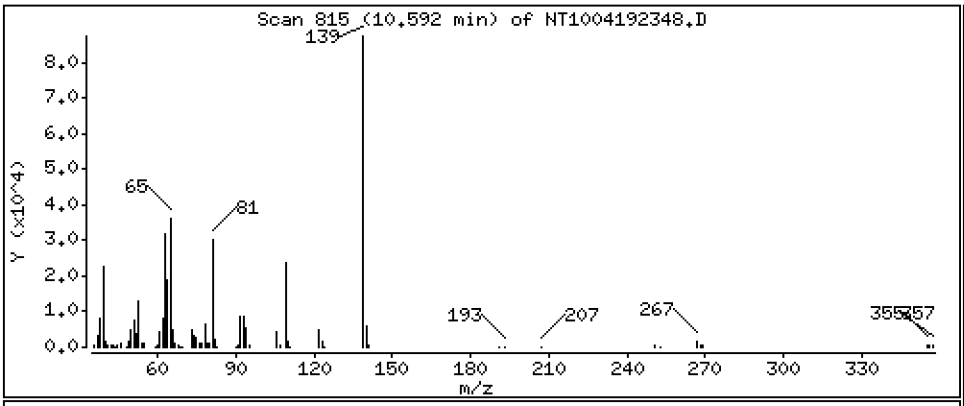
Operator: VTS

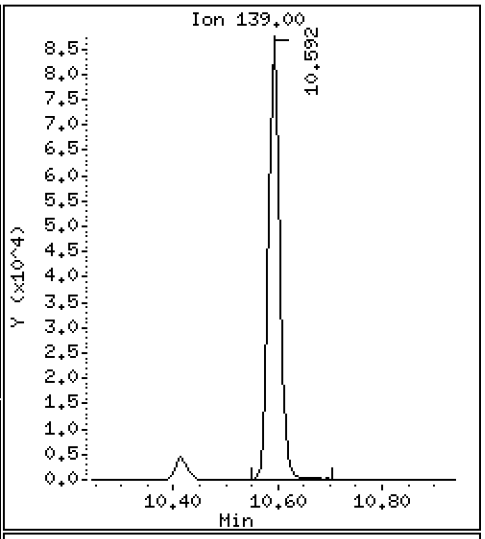
Column phase: ZB-5msi

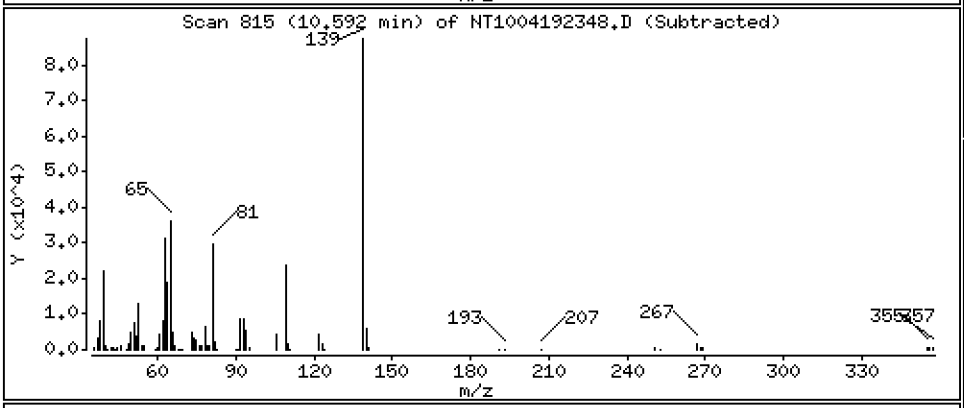
Column diameter: 0.25

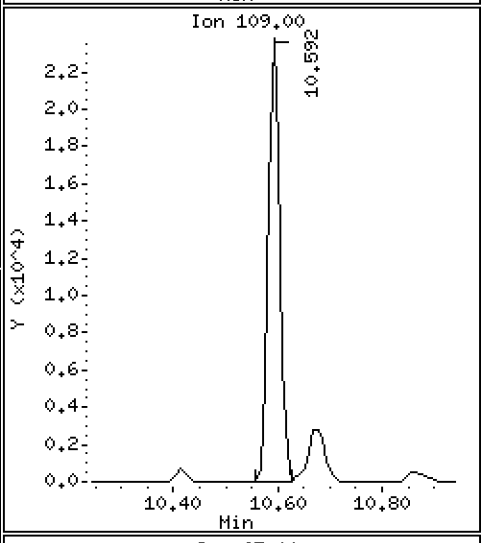
21 2-Nitrophenol

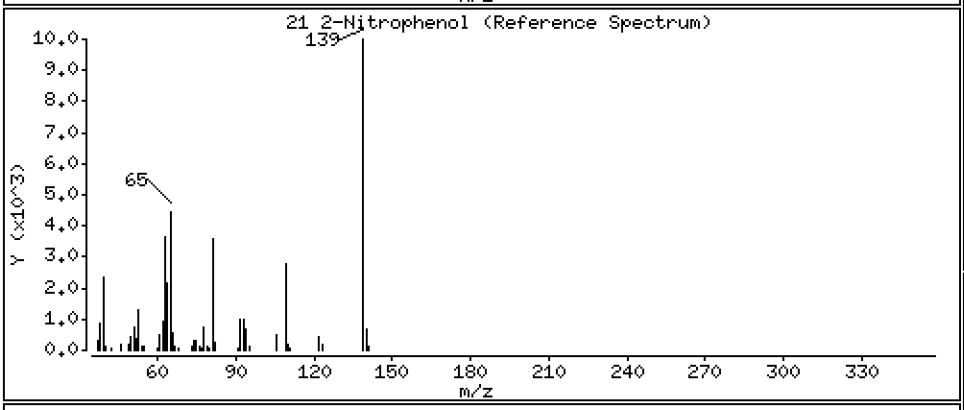
Concentration: 5.365 ug/mL

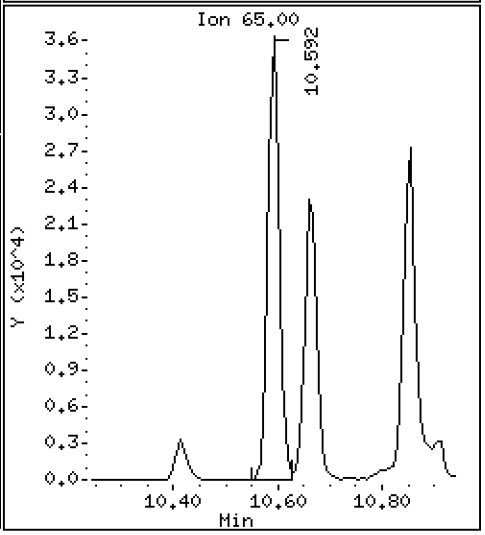


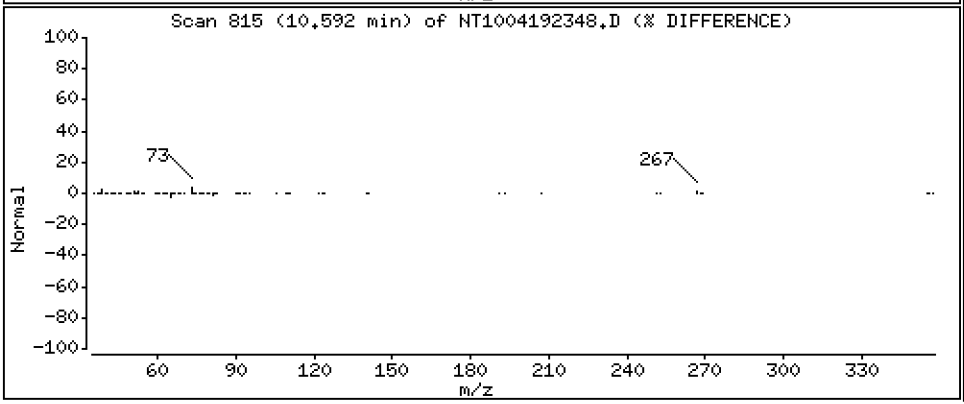












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

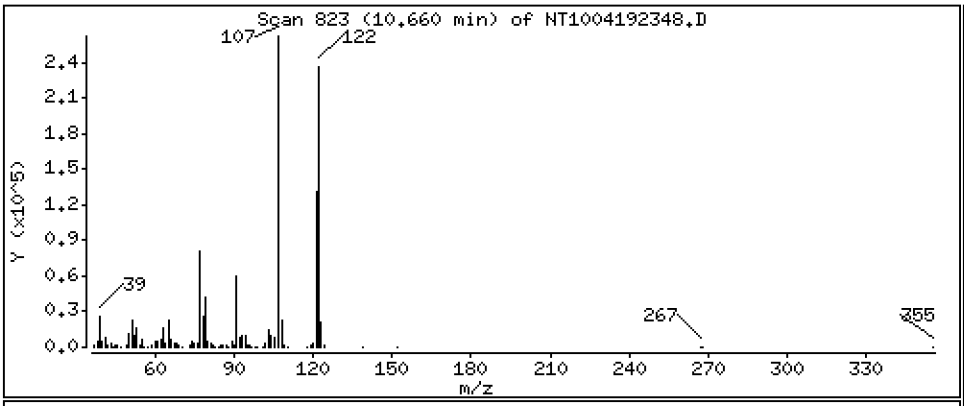
Operator: VTS

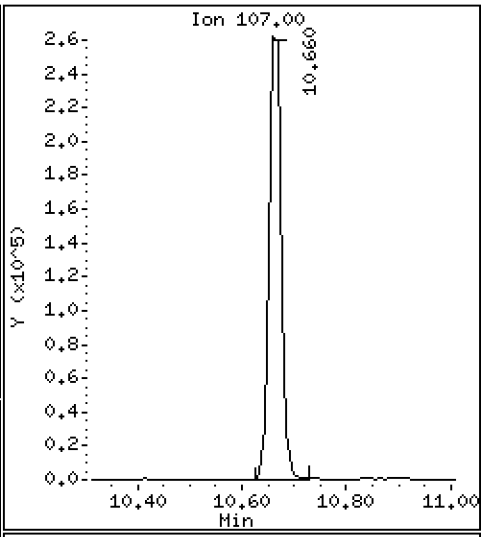
Column phase: ZB-5msi

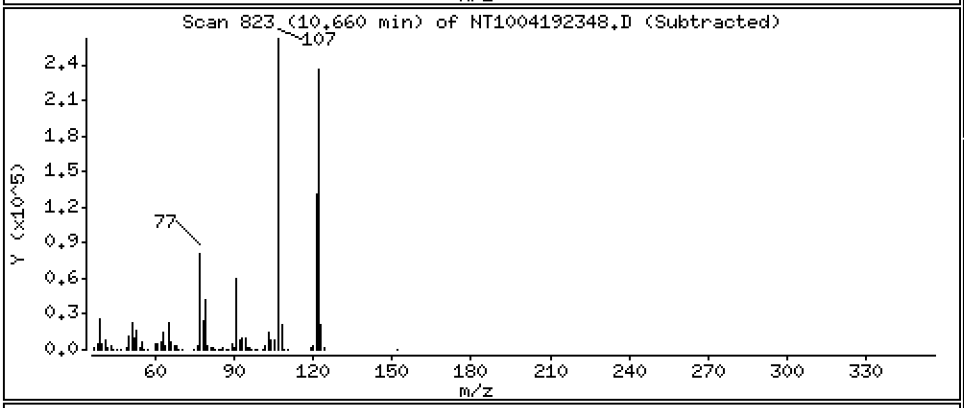
Column diameter: 0.25

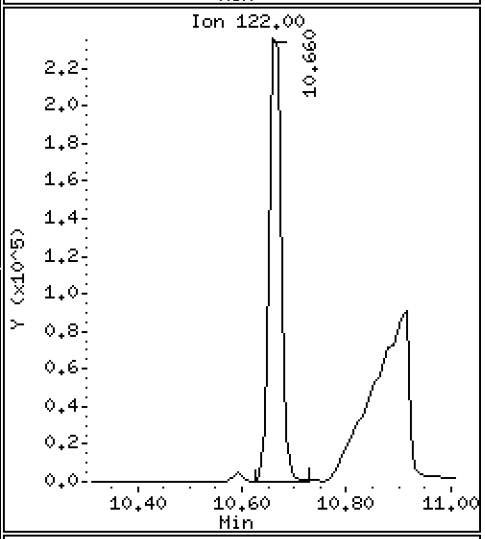
22 2,4-Dimethylphenol

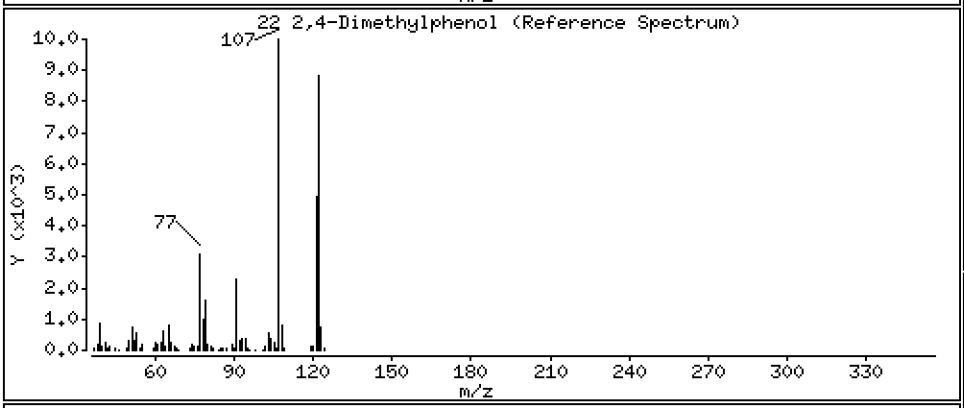
Concentration: 9.348 ug/mL

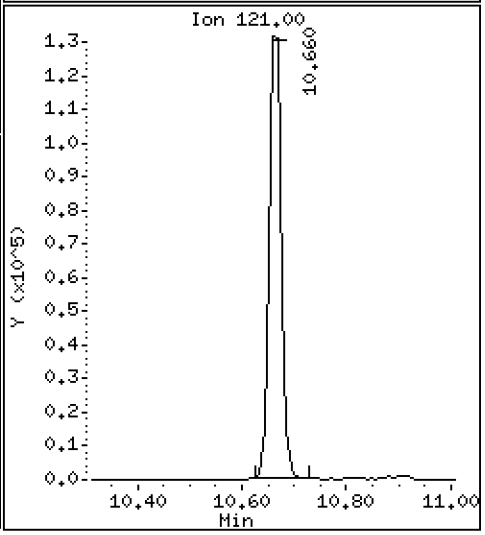


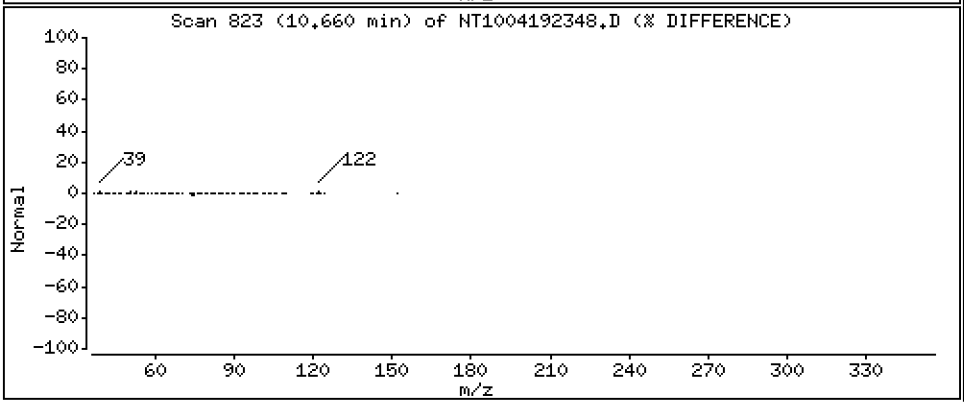












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

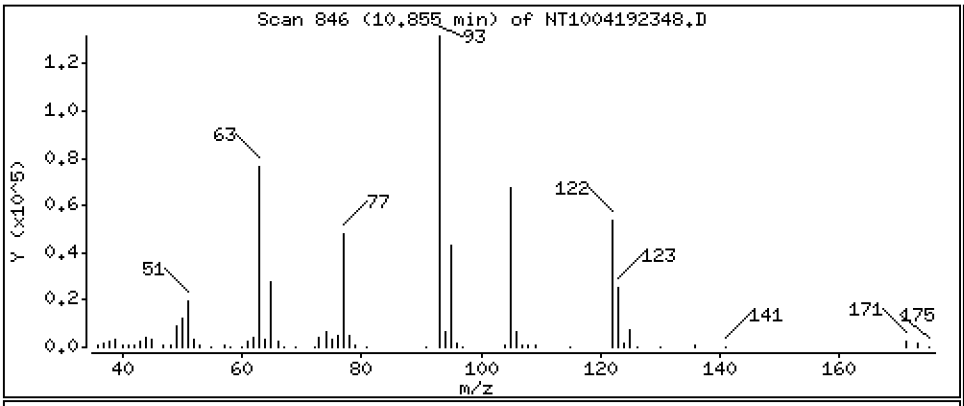
Operator: VTS

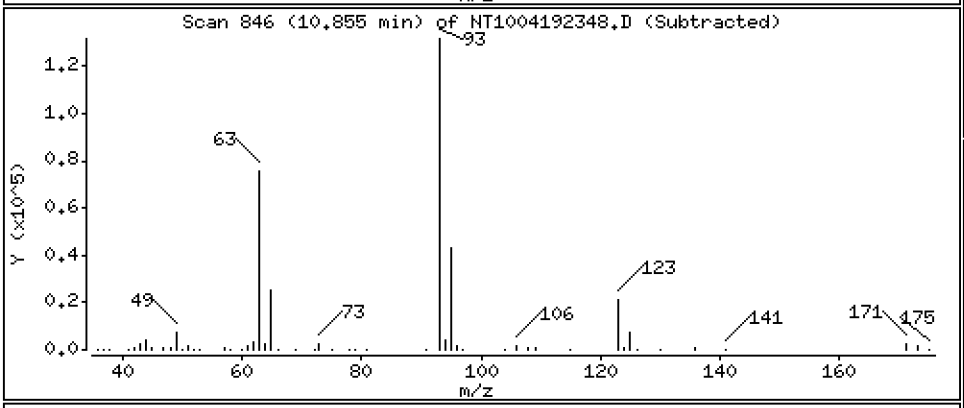
Column phase: ZB-5msi

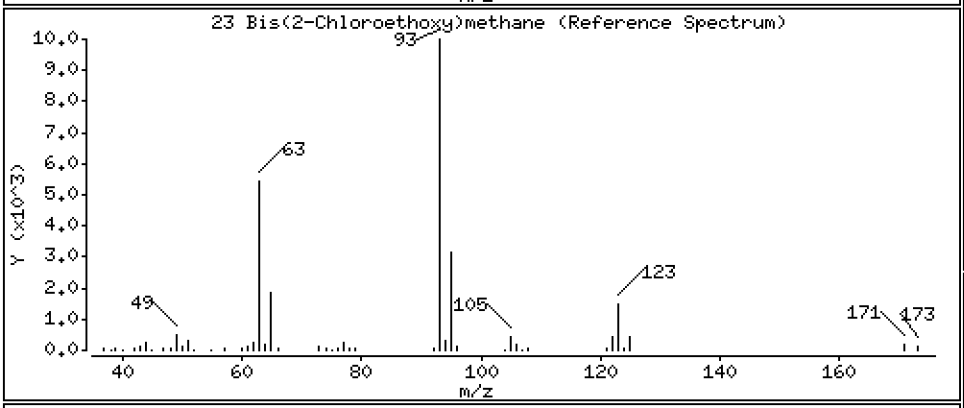
Column diameter: 0.25

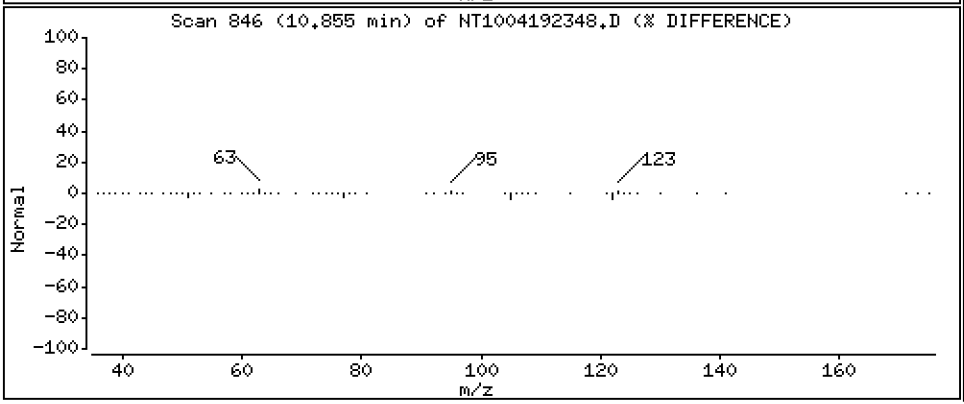
23 Bis(2-Chloroethoxy)methane

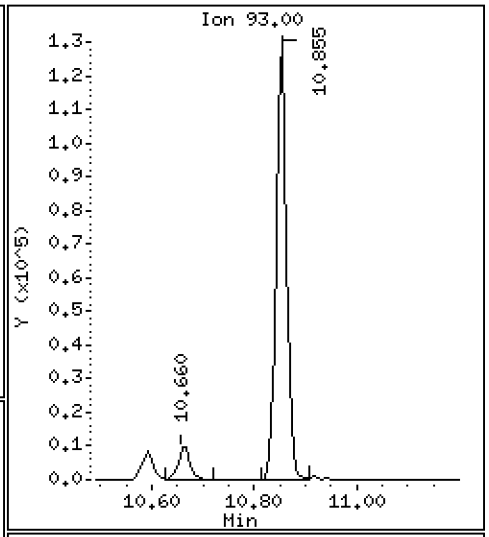
Concentration: 4.470 ug/mL

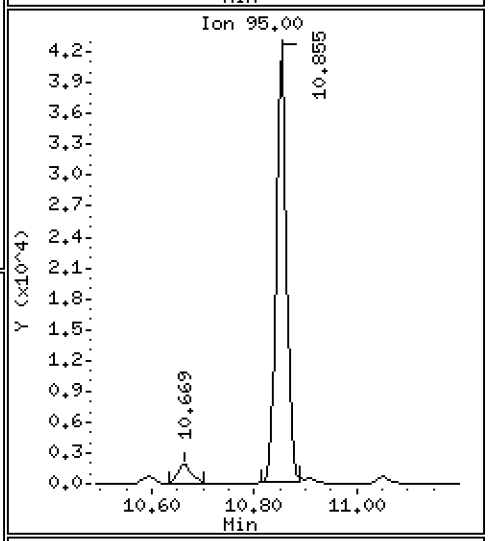


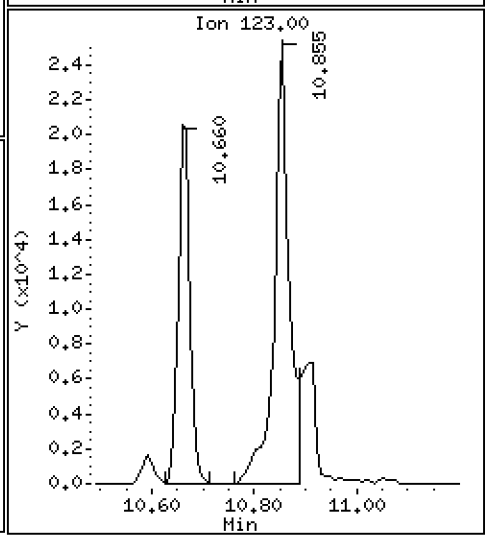












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

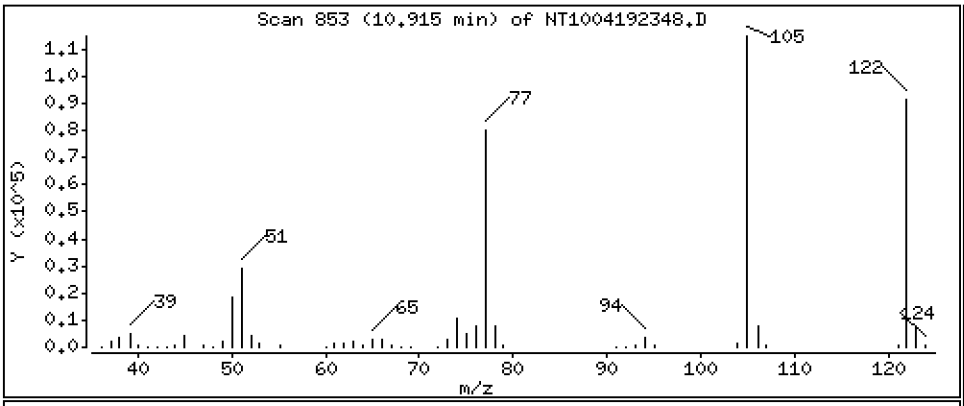
Operator: VTS

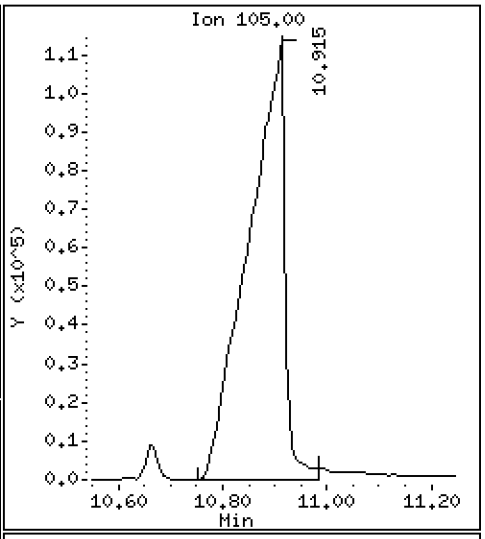
Column phase: ZB-5msi

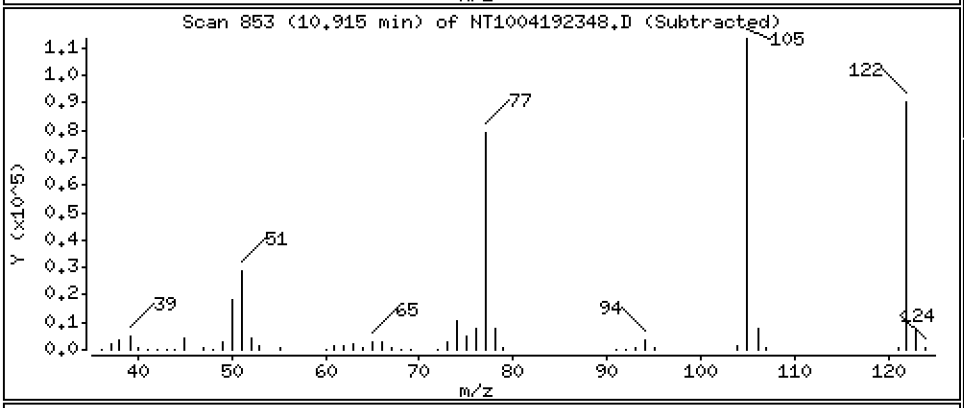
Column diameter: 0.25

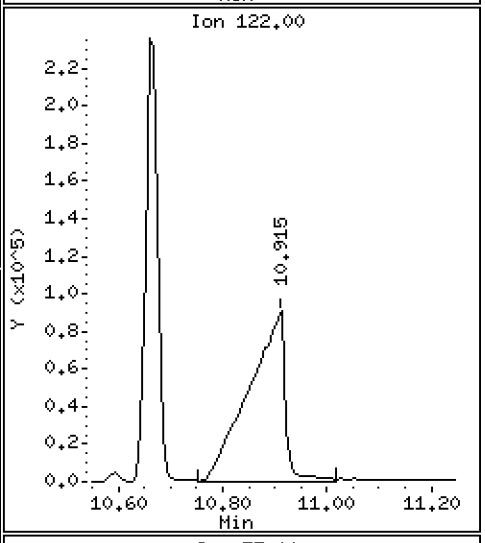
24 Benzoic acid

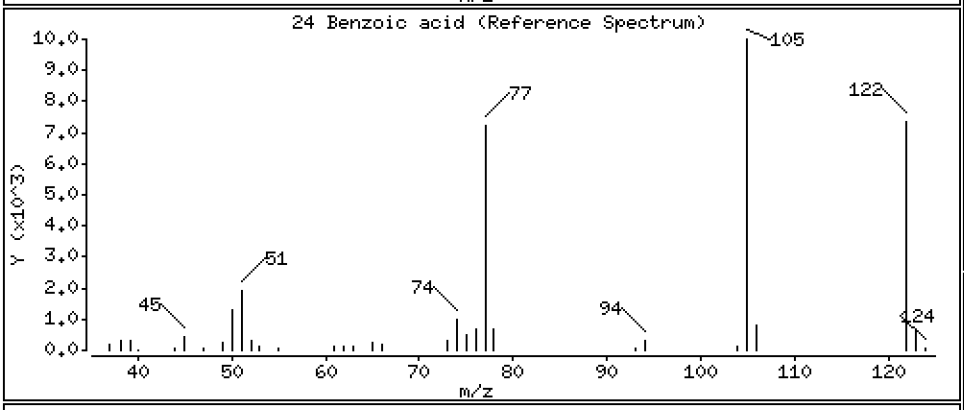
Concentration: 20.97 ug/mL

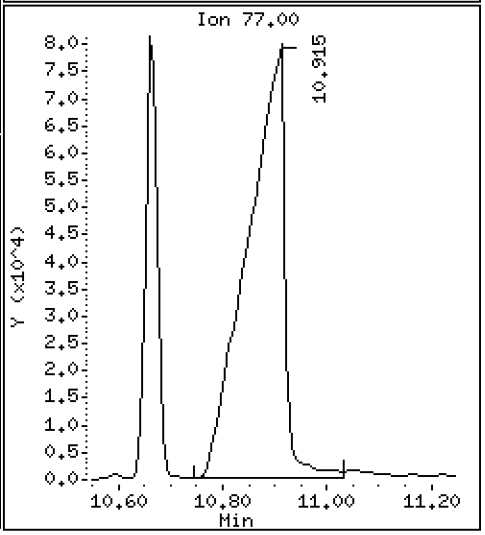


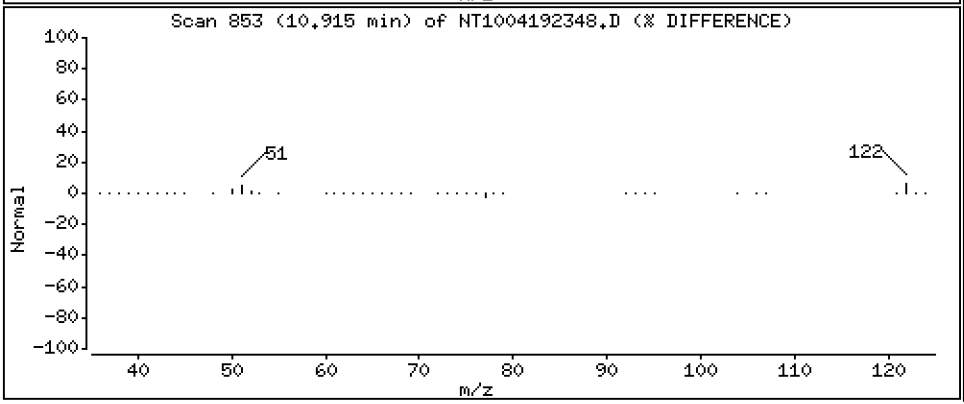












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

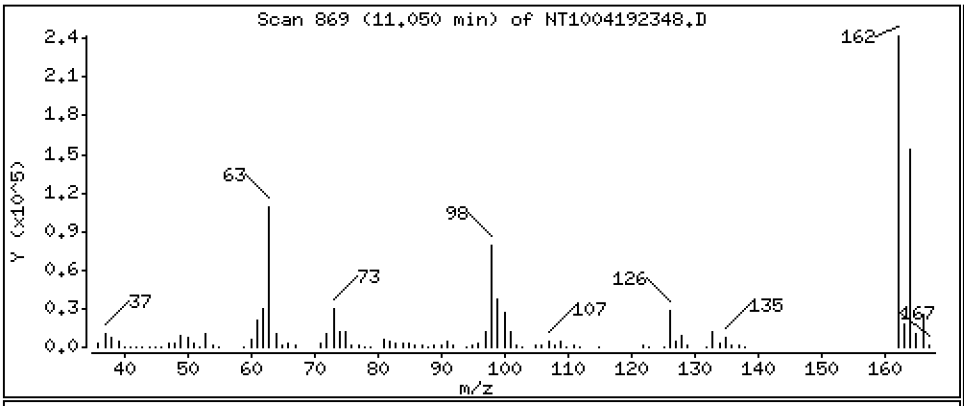
Operator: VTS

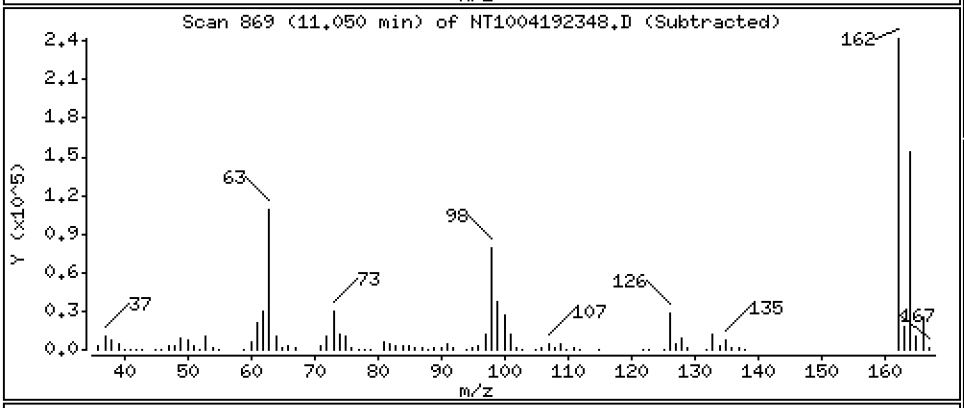
Column phase: ZB-5msi

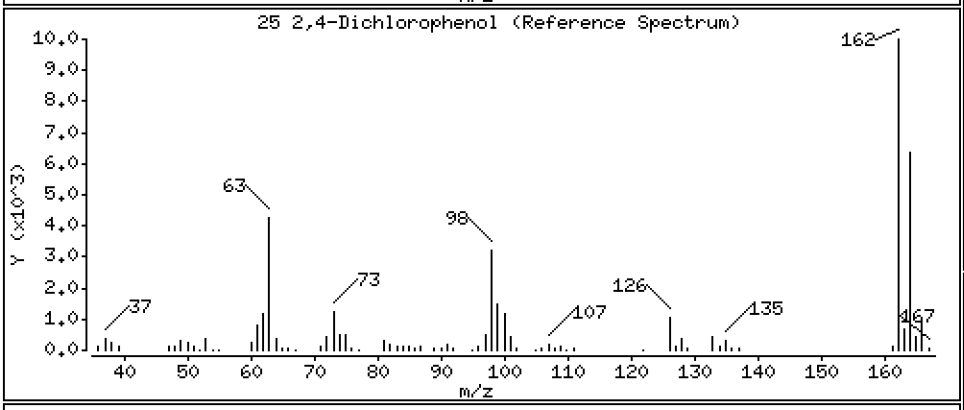
Column diameter: 0.25

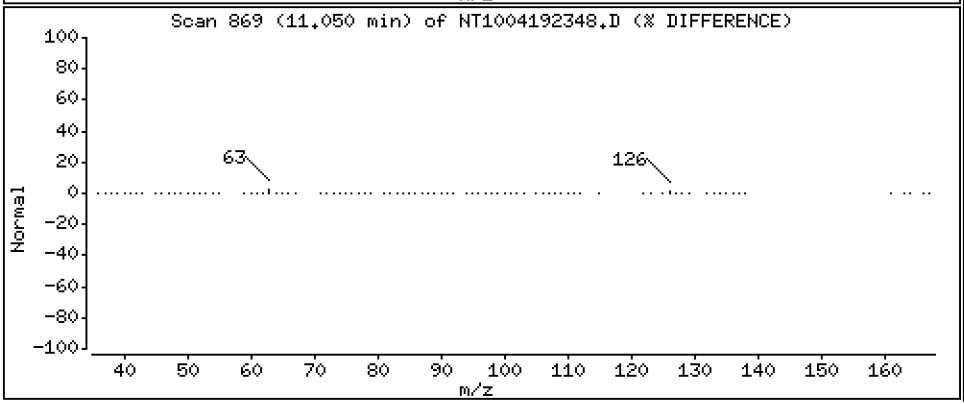
25 2,4-Dichlorophenol

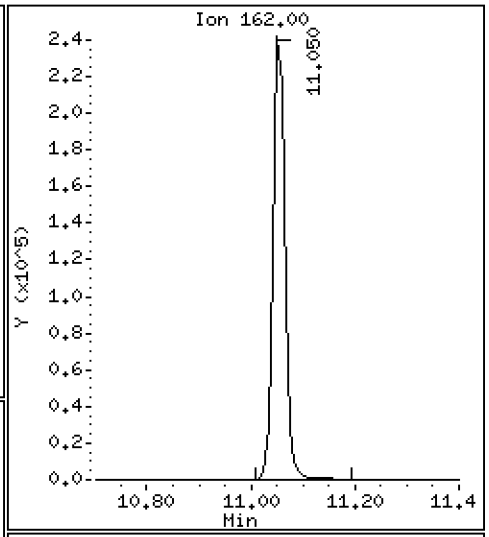
Concentration: 11.48 ug/mL

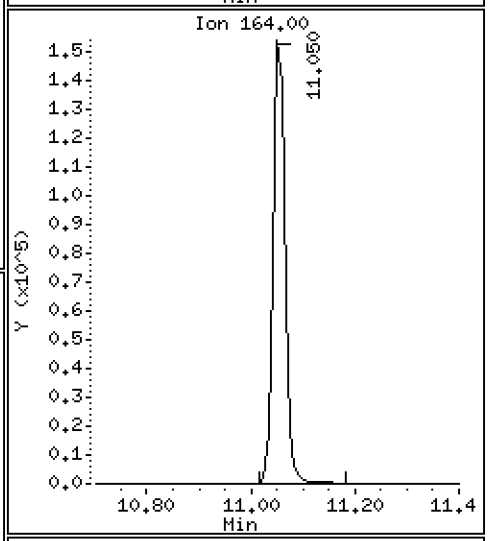


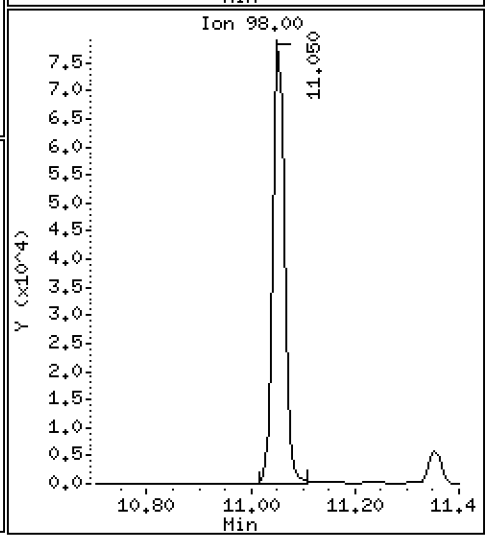












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

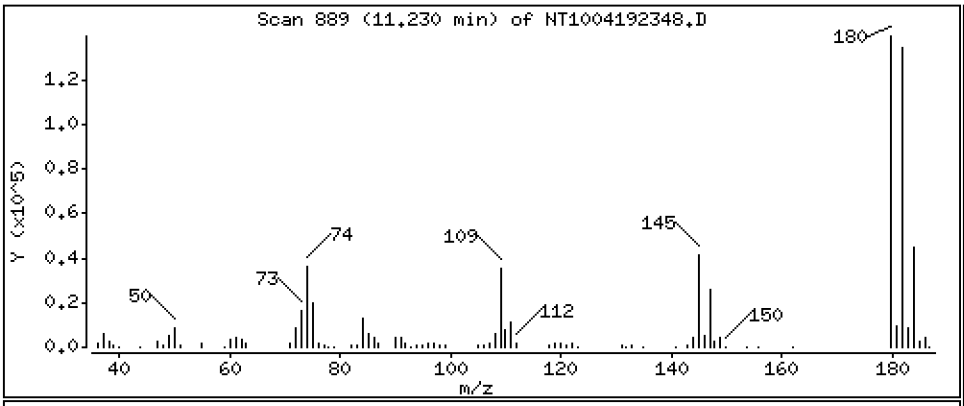
Operator: VTS

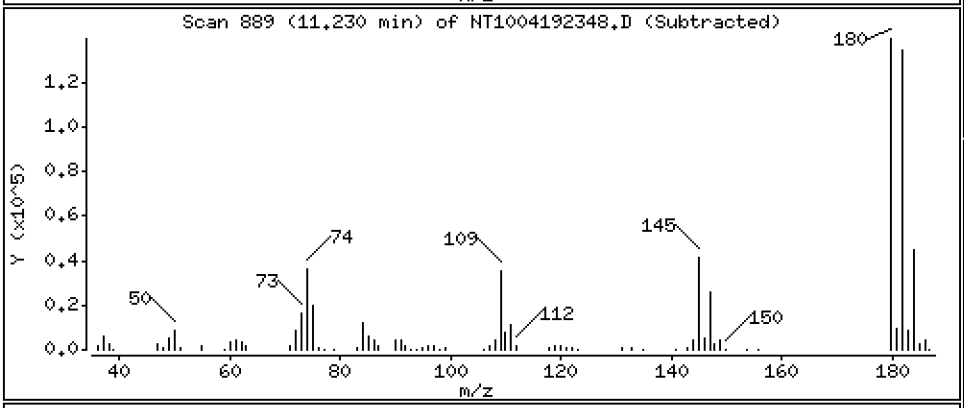
Column phase: ZB-5msi

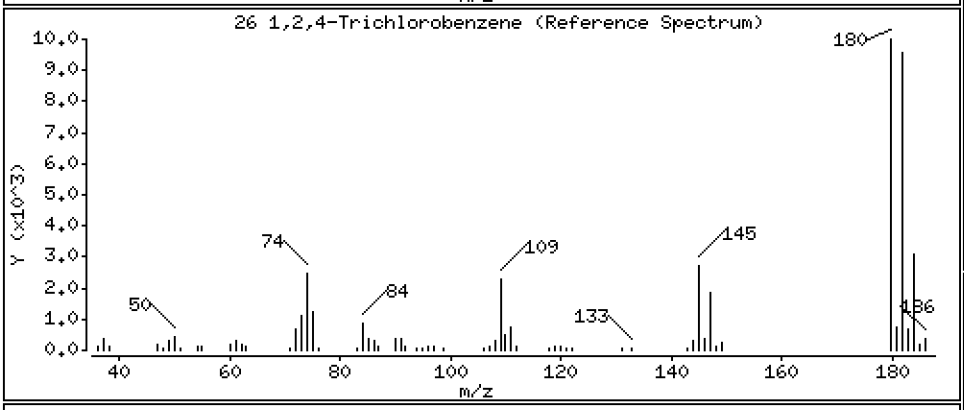
Column diameter: 0.25

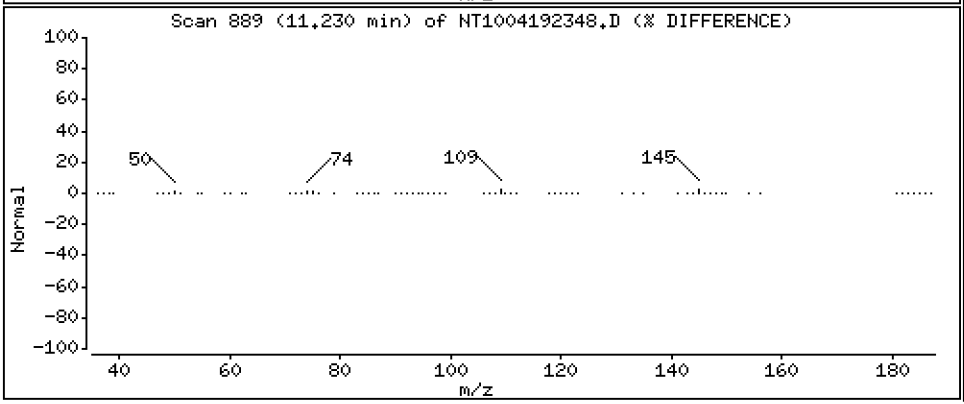
26 1,2,4-Trichlorobenzene

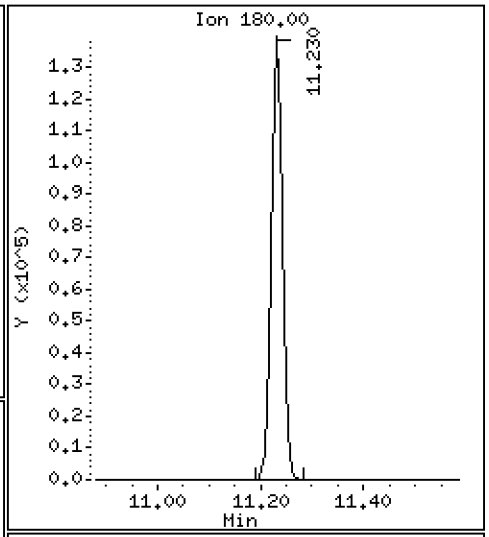
Concentration: 5.109 ug/mL

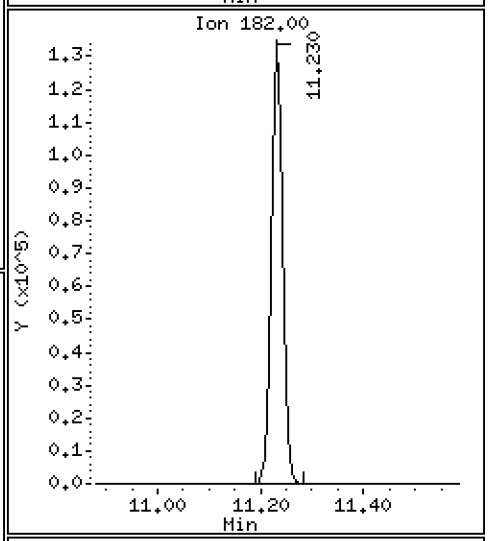


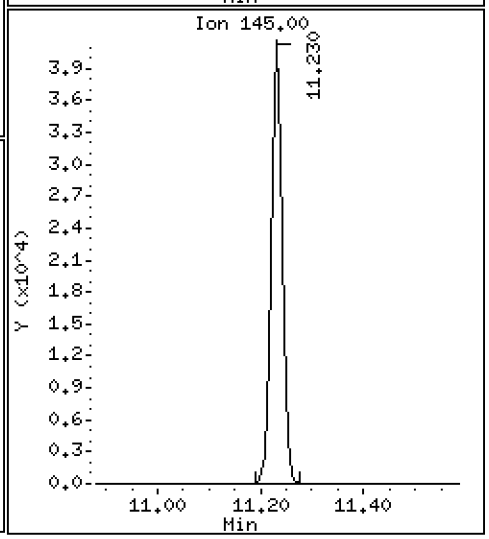












Date : 20-APR-2023 17:12

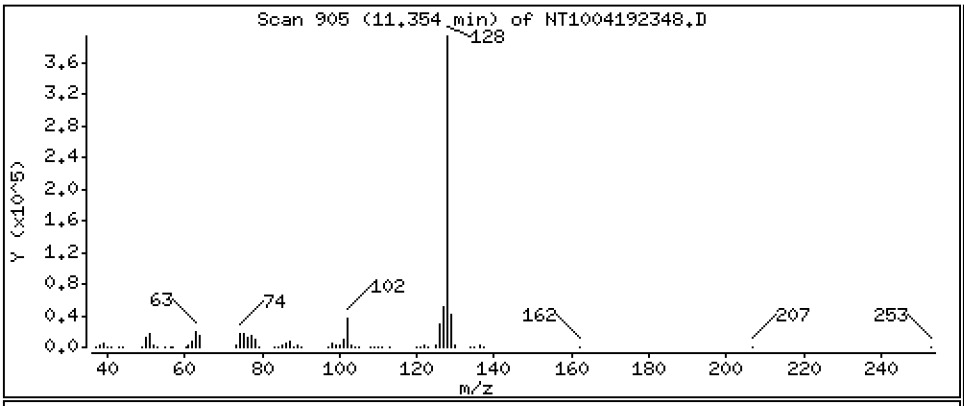
Client ID: Instrument: nt10.i

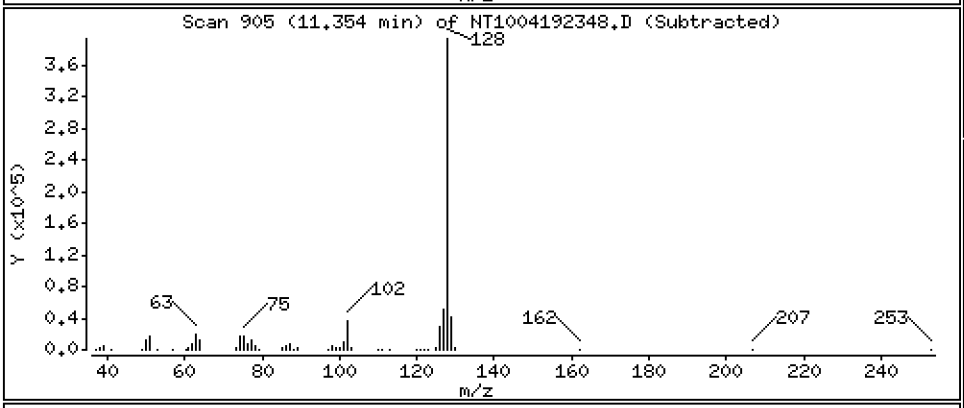
Sample Info: SLD0293-CCV1

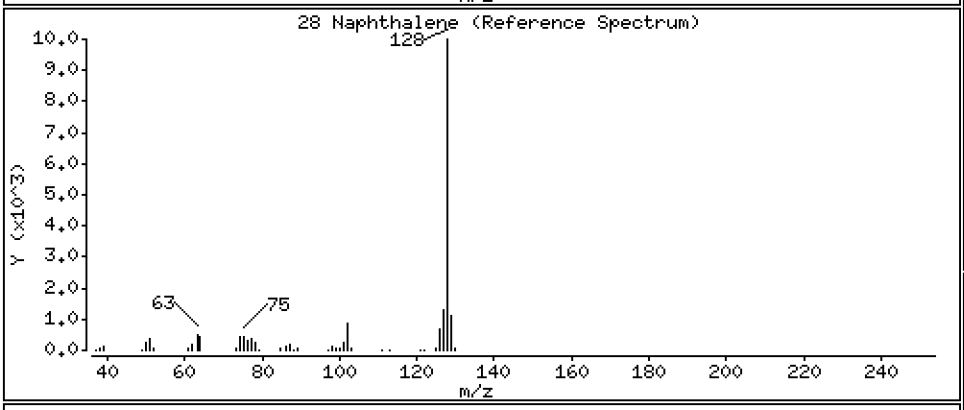
Operator: VTS

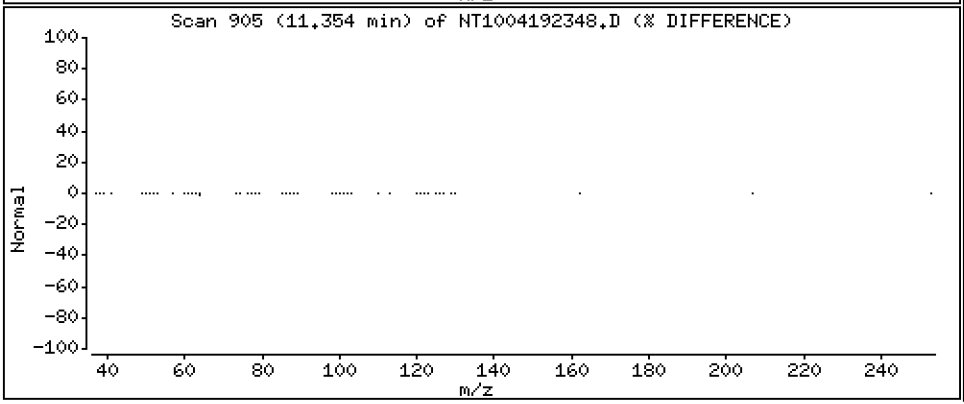
Column phase: ZB-5msi Column diameter: 0.25

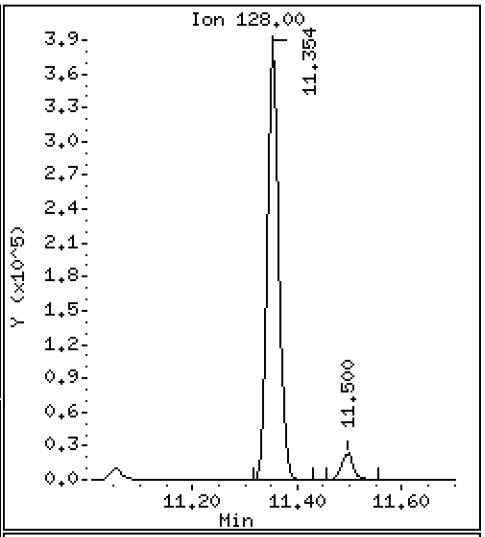
28 Naphthalene Concentration: 4.515 ug/mL

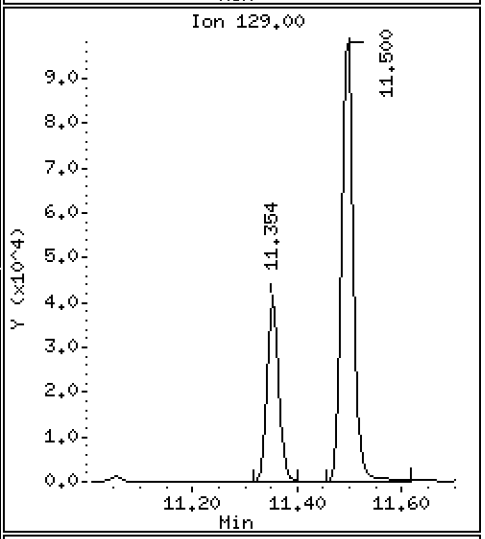


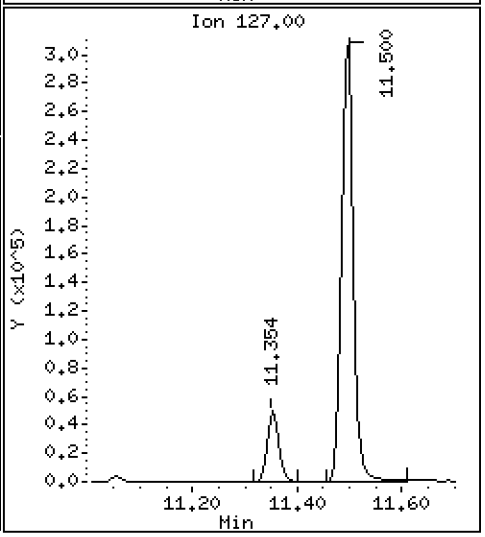












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

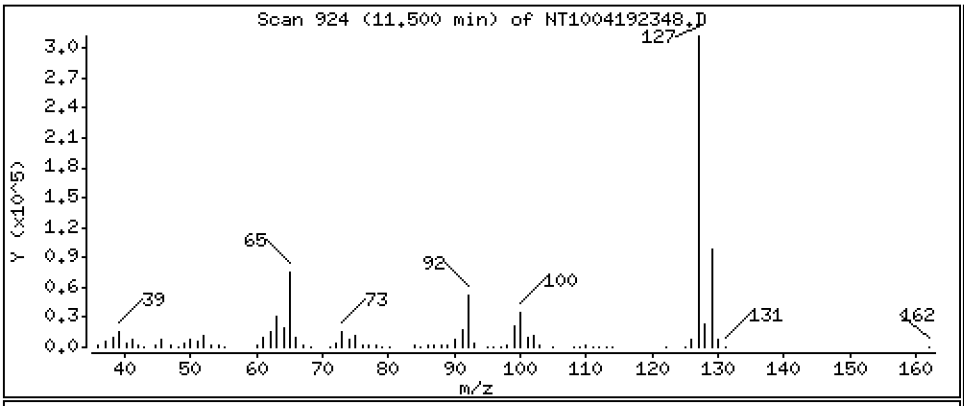
Operator: VTS

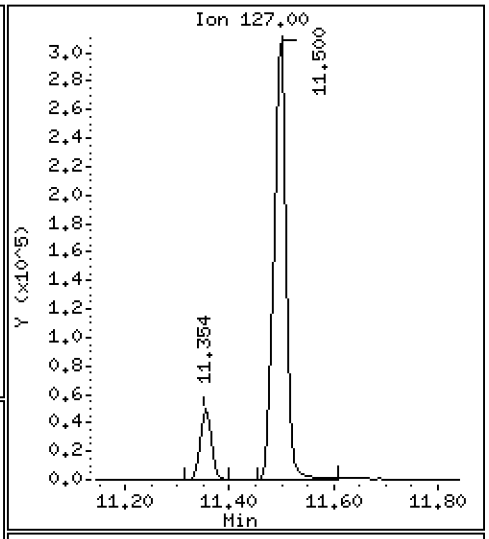
Column phase: ZB-5msi

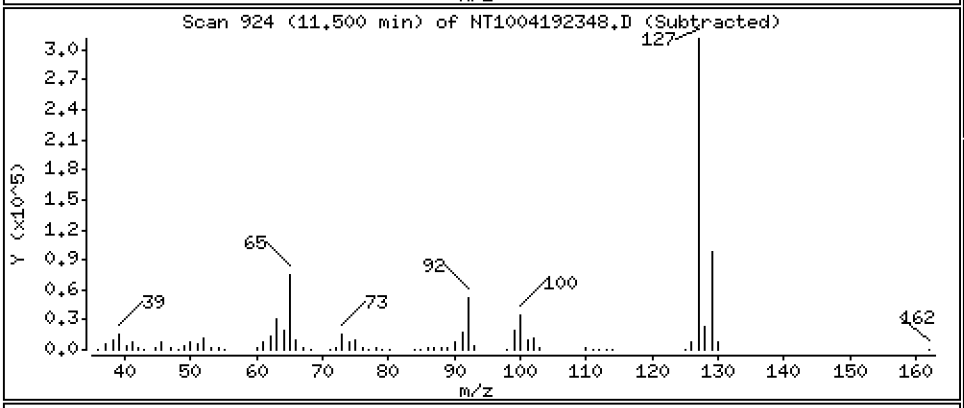
Column diameter: 0.25

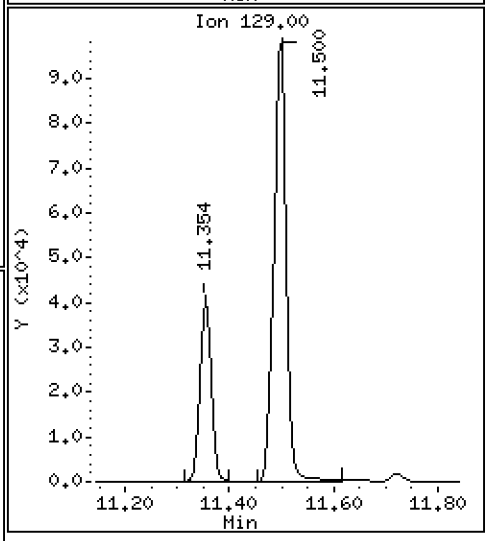
29 4-Chloroaniline

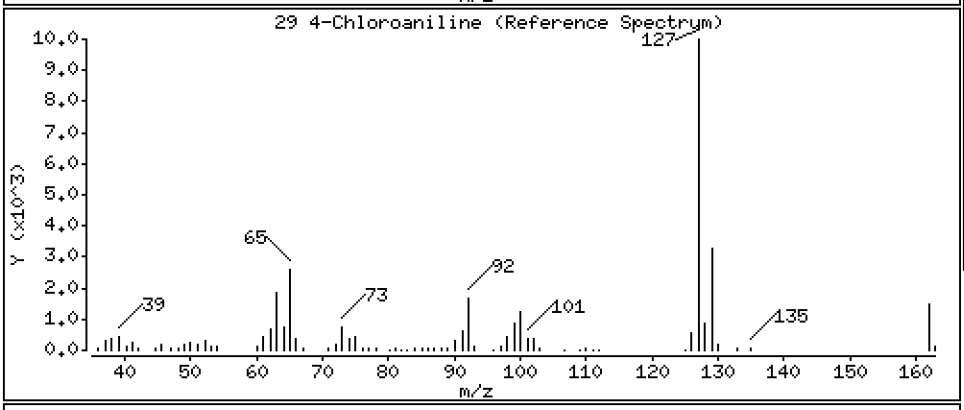
Concentration: 10.84 ug/mL

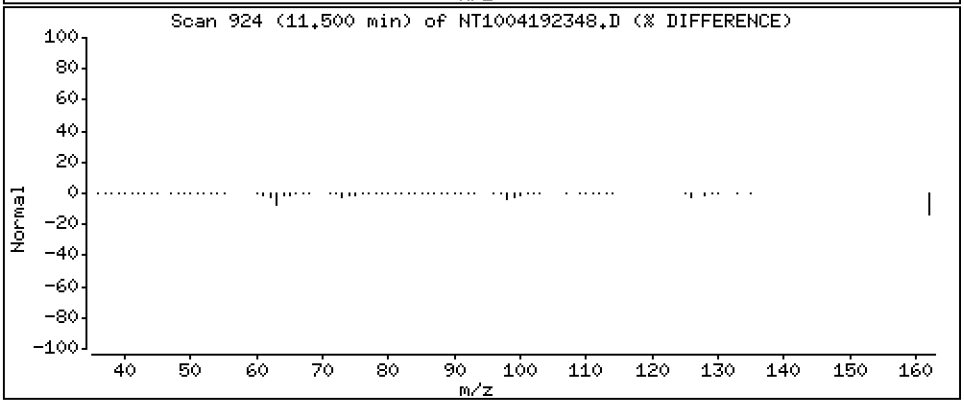












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192348.D

Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

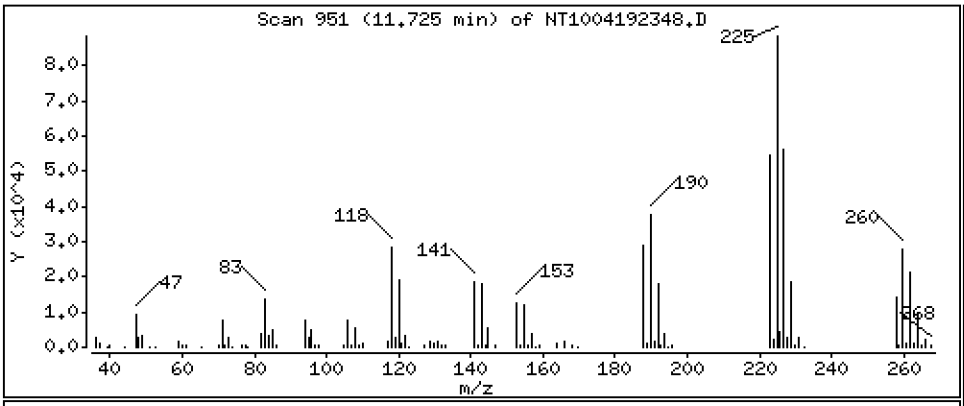
Operator: VTS

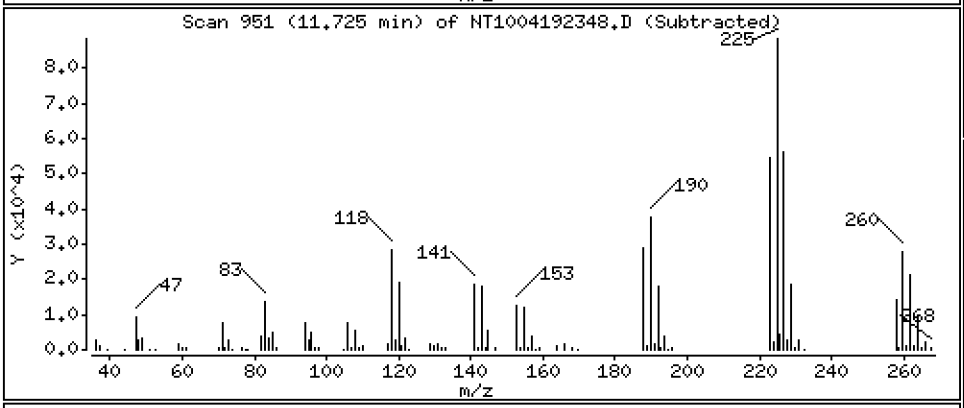
Column phase: ZB-5msi

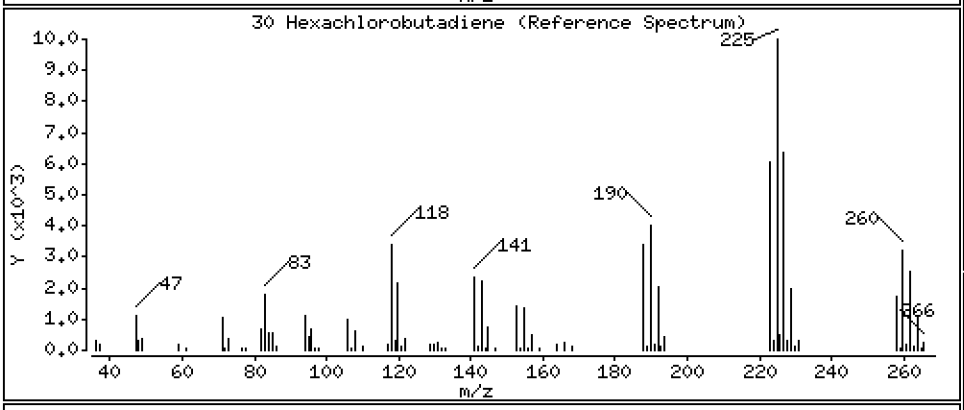
Column diameter: 0.25

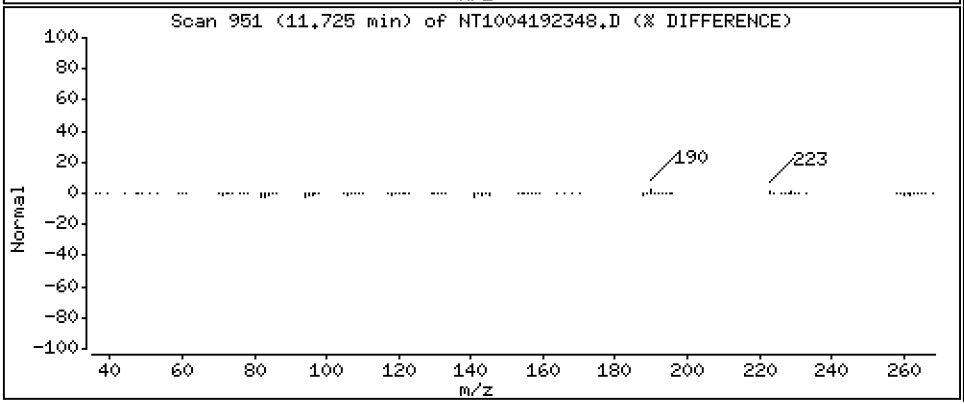
30 Hexachlorobutadiene

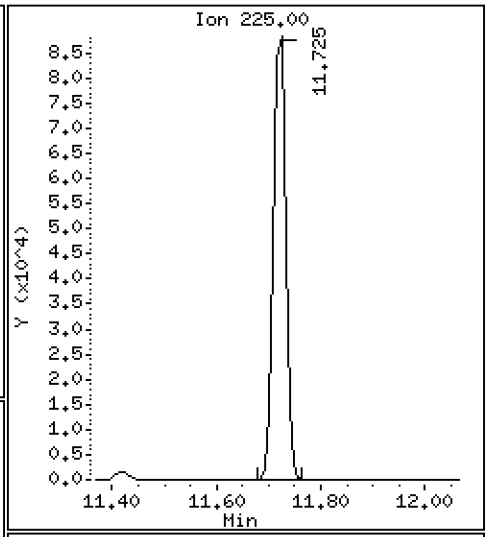
Concentration: 5.508 ug/mL

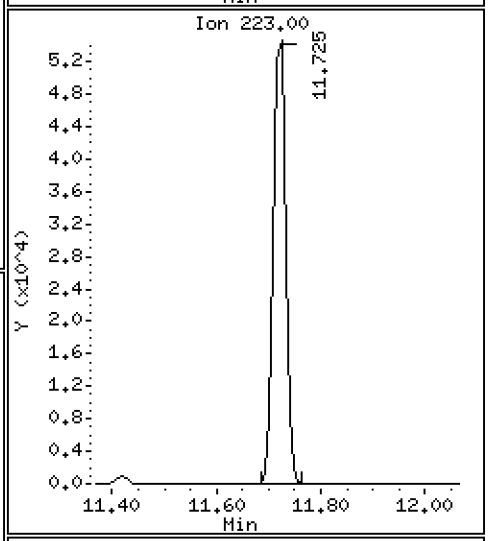


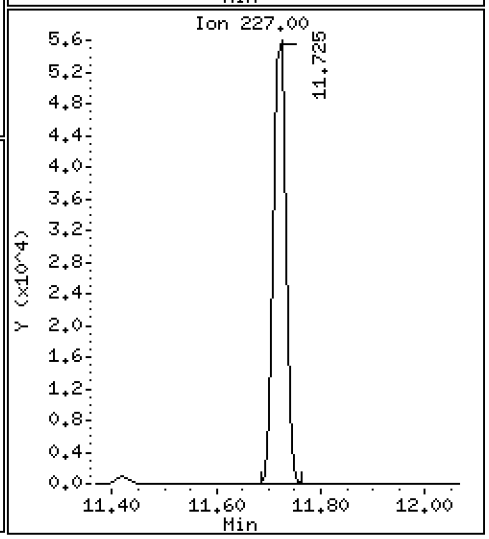












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192348.D

Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

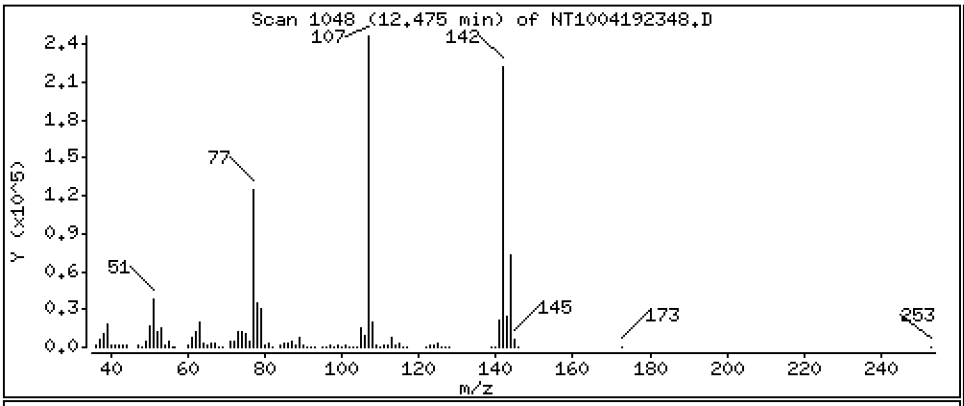
Operator: VTS

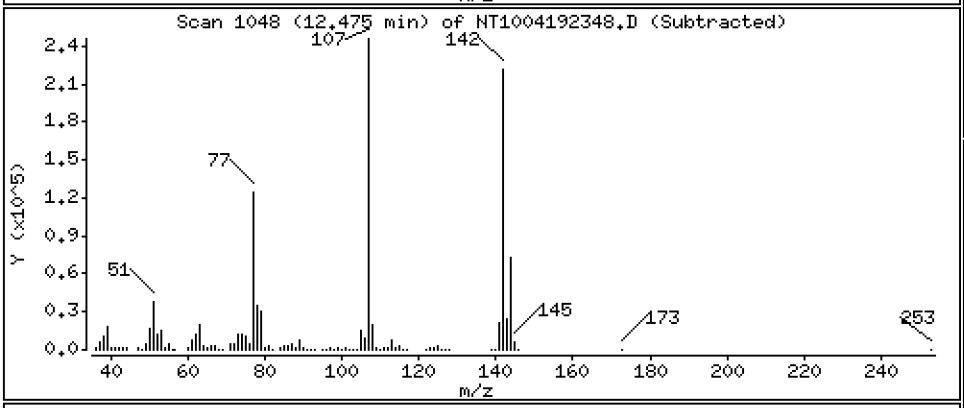
Column phase: ZB-5msi

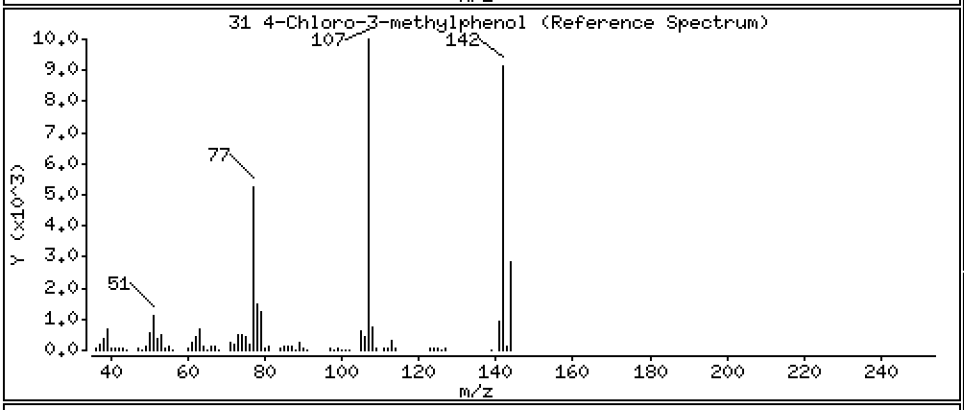
Column diameter: 0.25

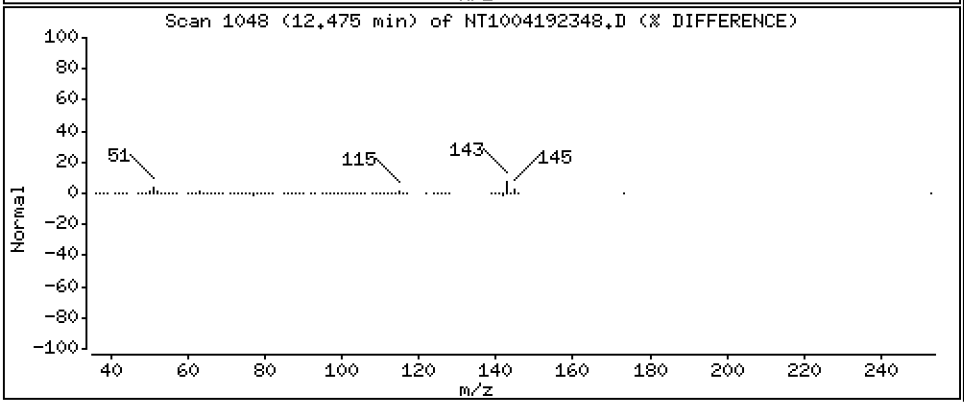
31 4-Chloro-3-methylphenol

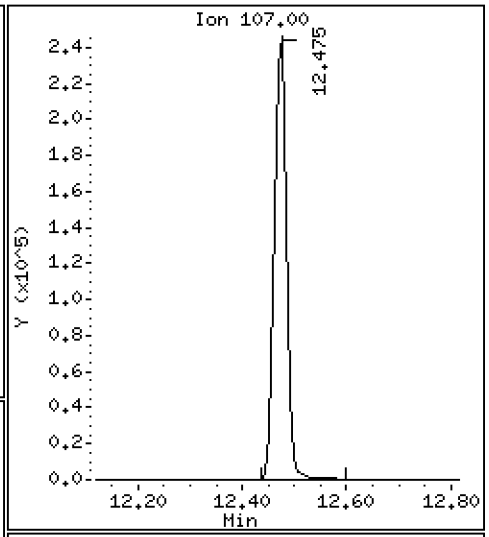
Concentration: 9.728 ug/mL

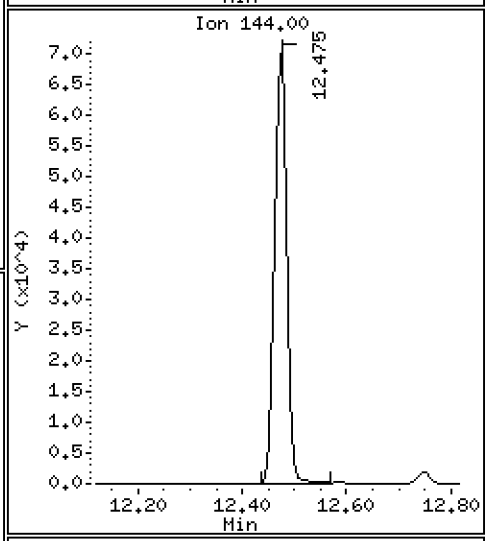


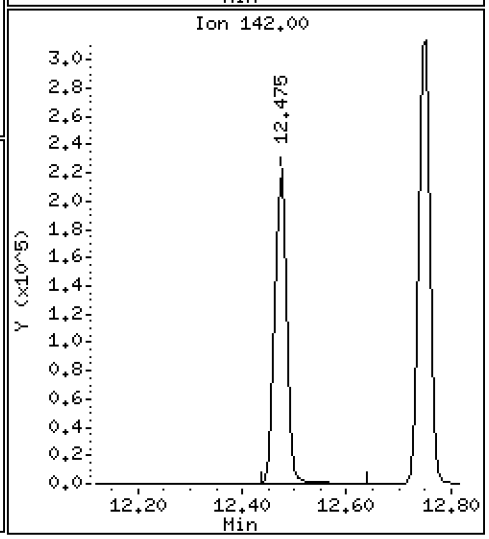












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

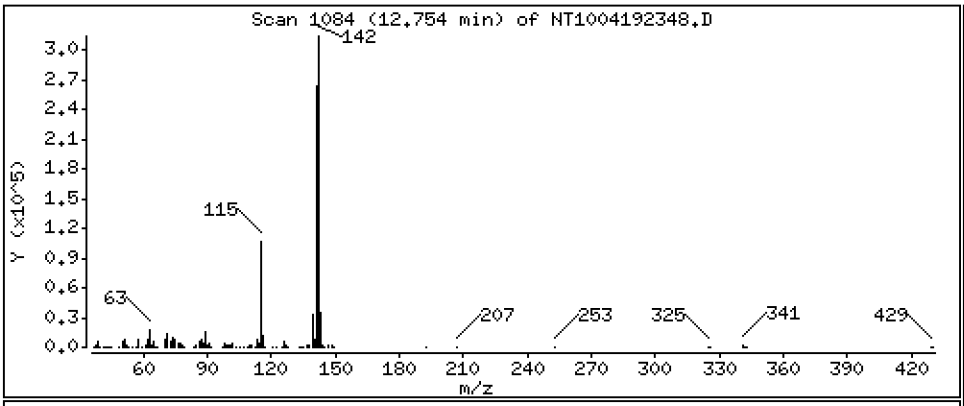
Operator: VTS

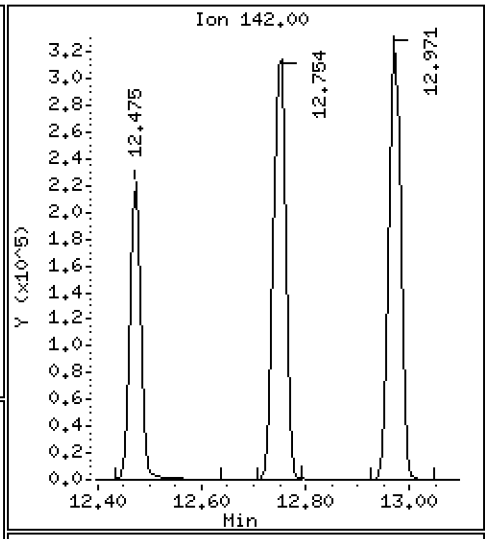
Column phase: ZB-5msi

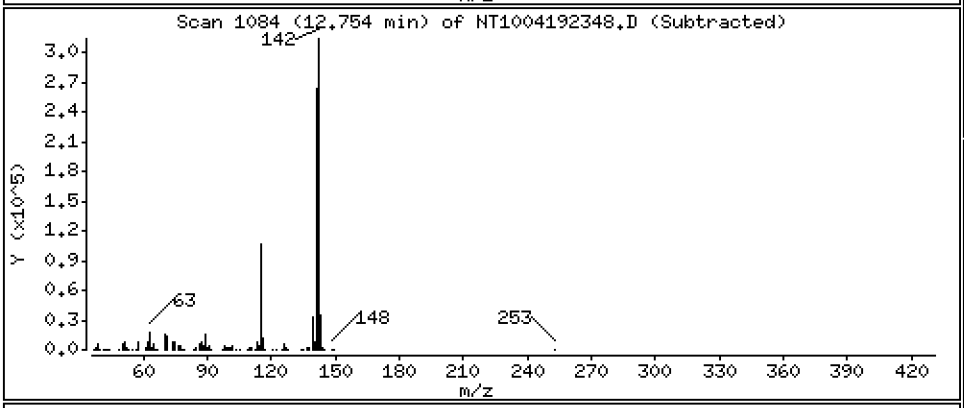
Column diameter: 0.25

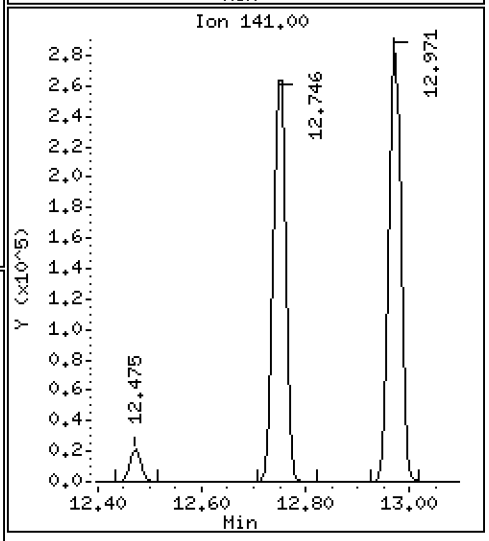
32 2-Methylnaphthalene

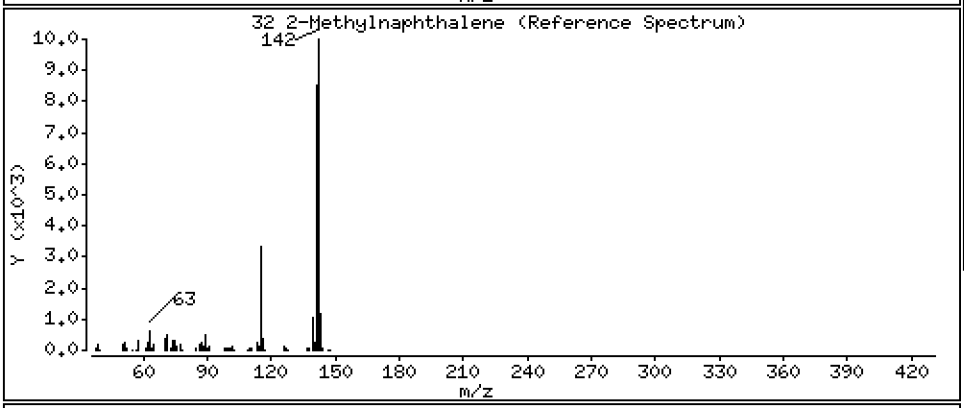
Concentration: 5.264 ug/mL

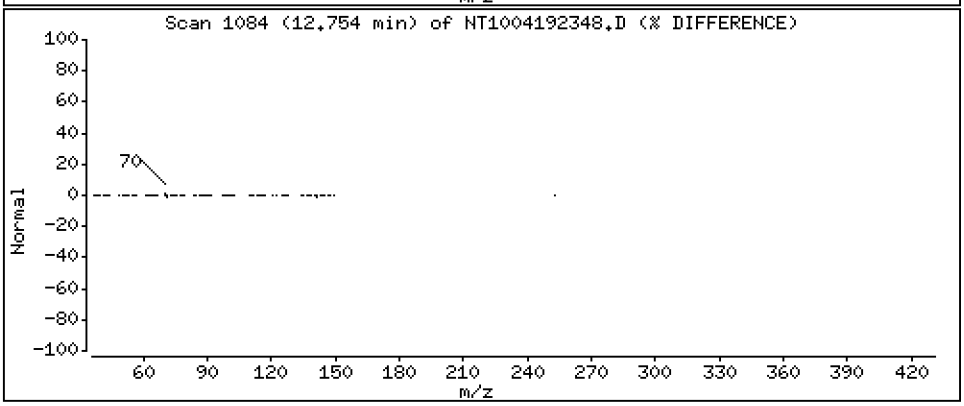












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192348.D

Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

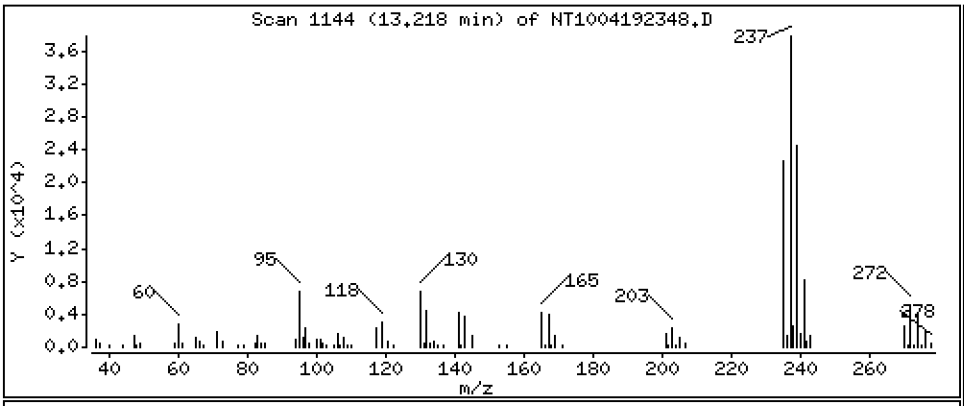
Operator: VTS

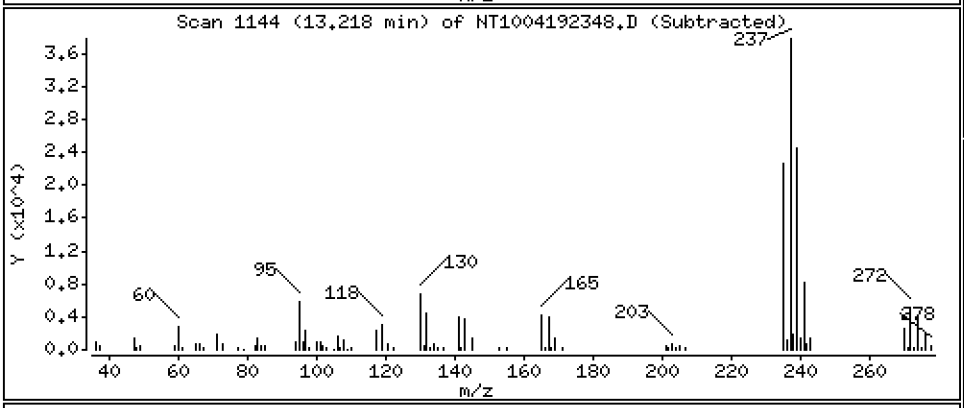
Column phase: ZB-5msi

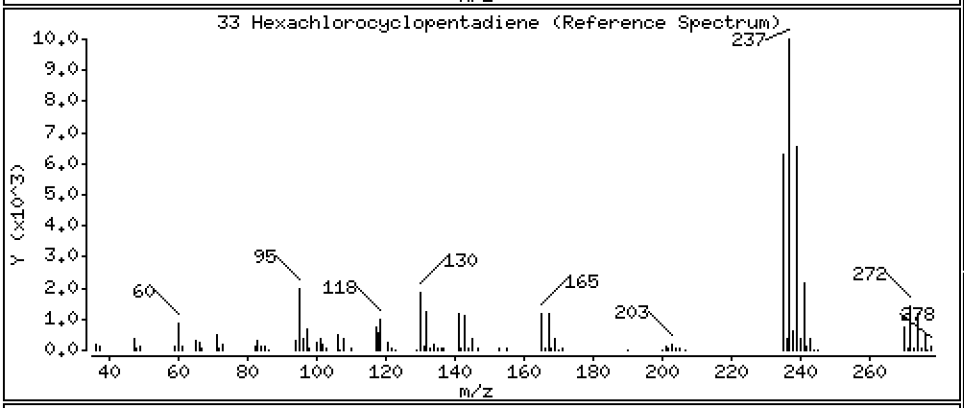
Column diameter: 0.25

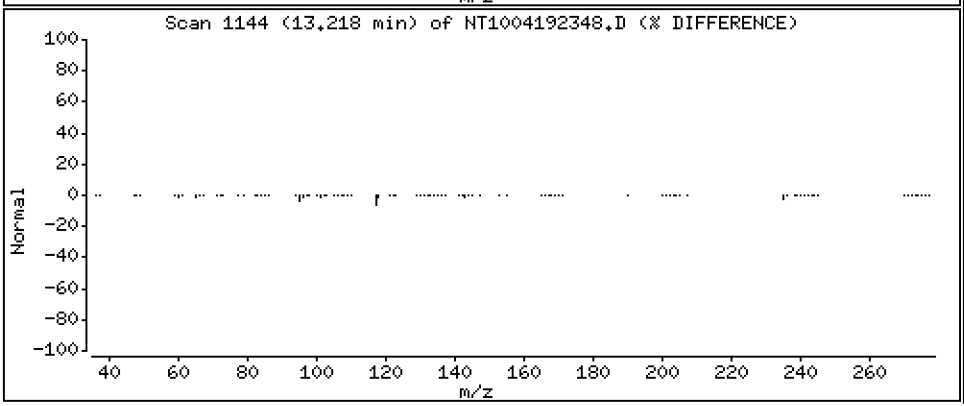
33 Hexachlorocyclopentadiene

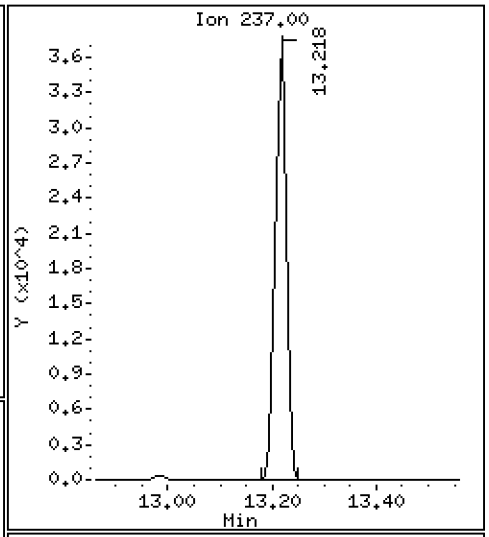
Concentration: 1.943 ug/mL

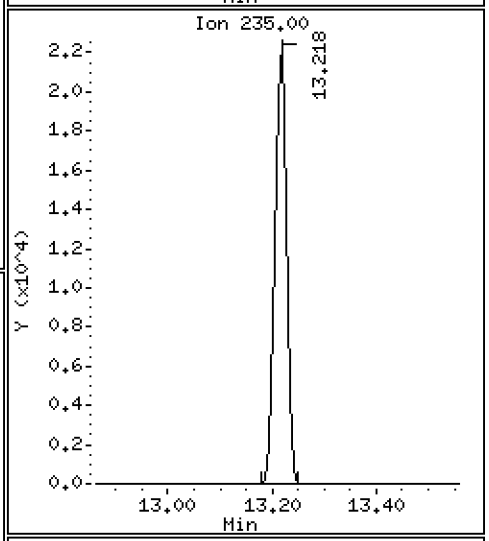


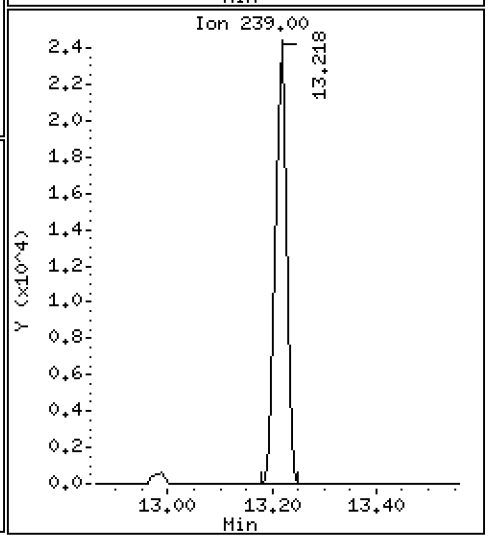












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192348.D

Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

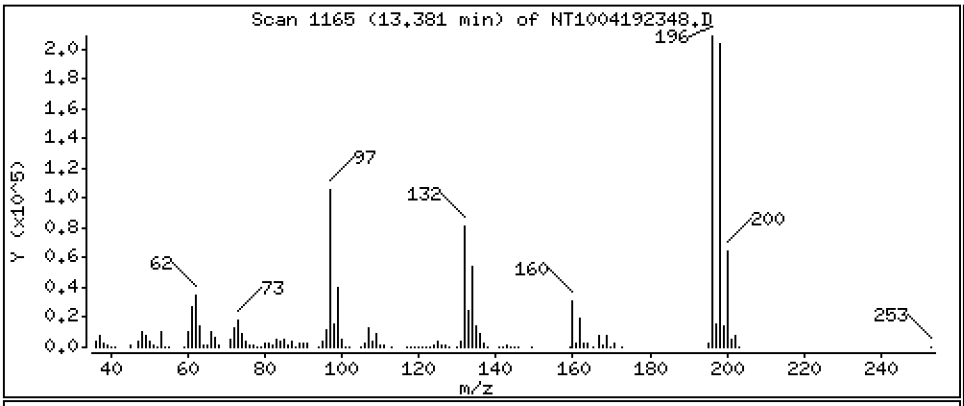
Operator: VTS

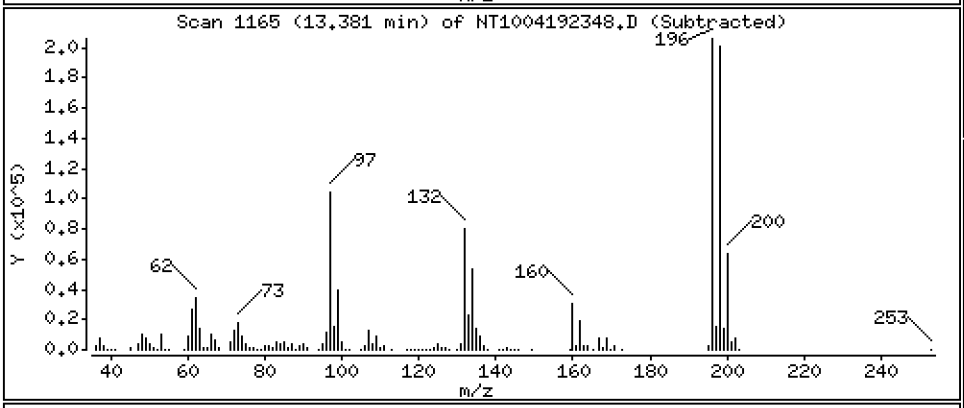
Column phase: ZB-5msi

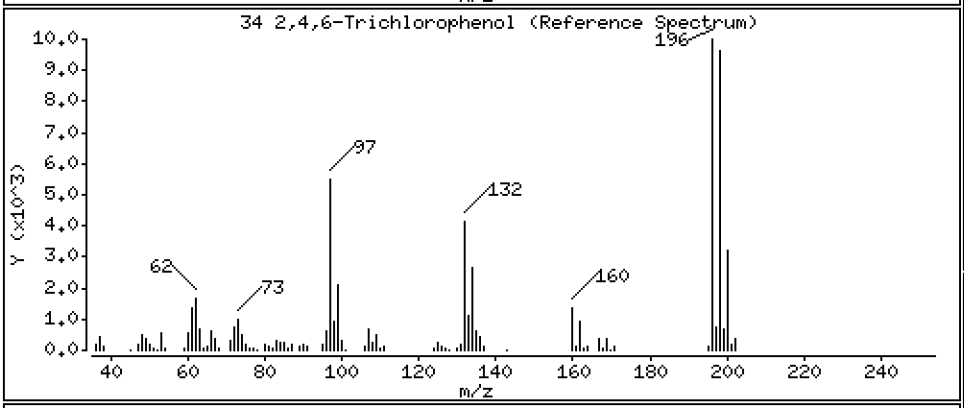
Column diameter: 0.25

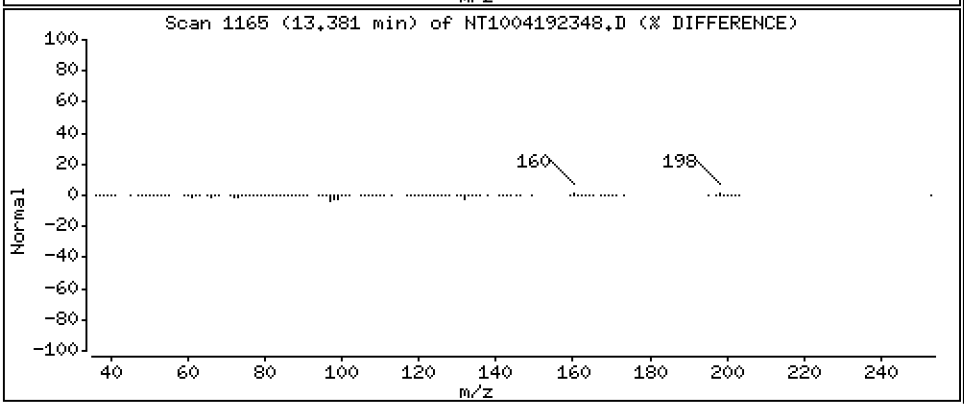
34 2,4,6-Trichlorophenol

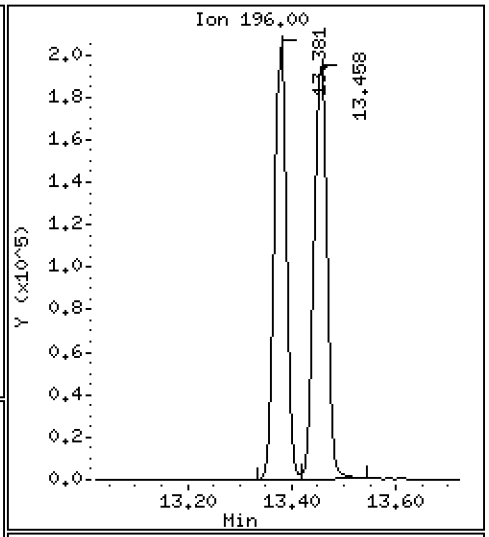
Concentration: 10.52 ug/mL

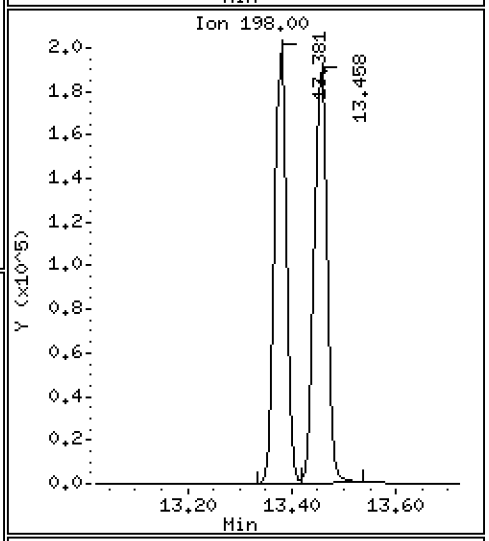


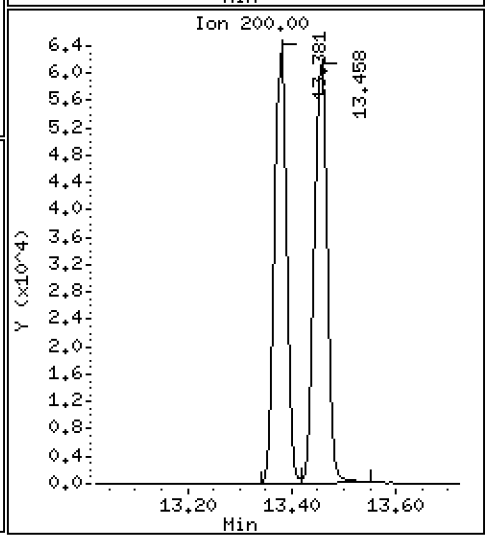












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192348.D

Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

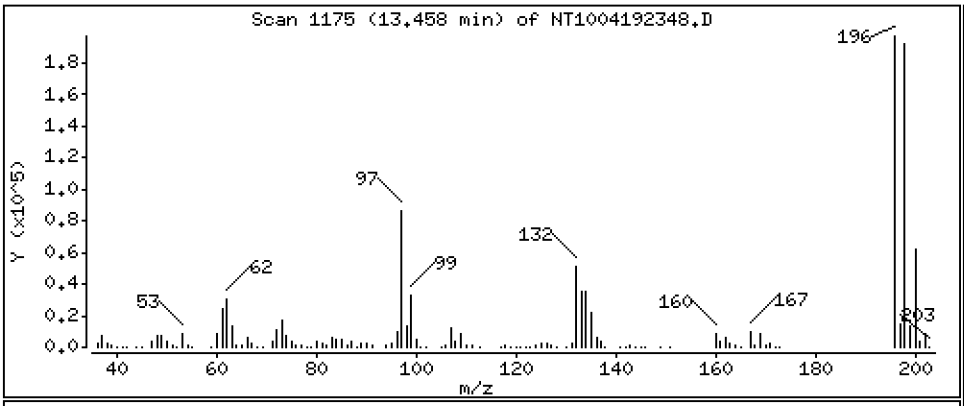
Operator: VTS

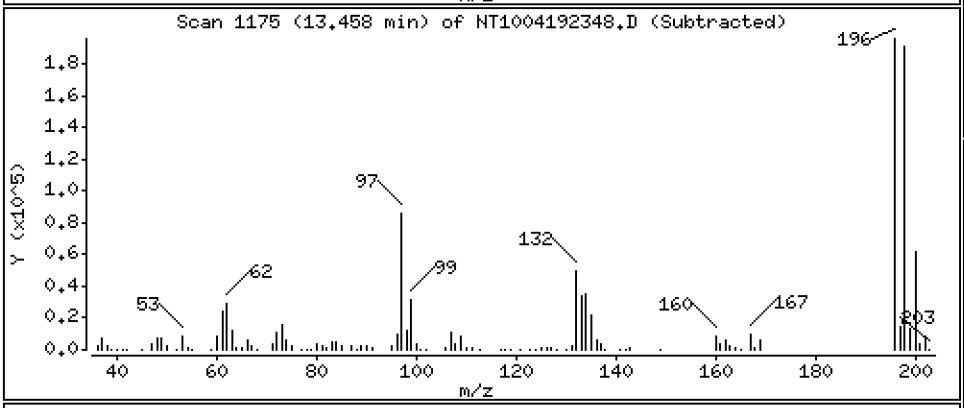
Column phase: ZB-5msi

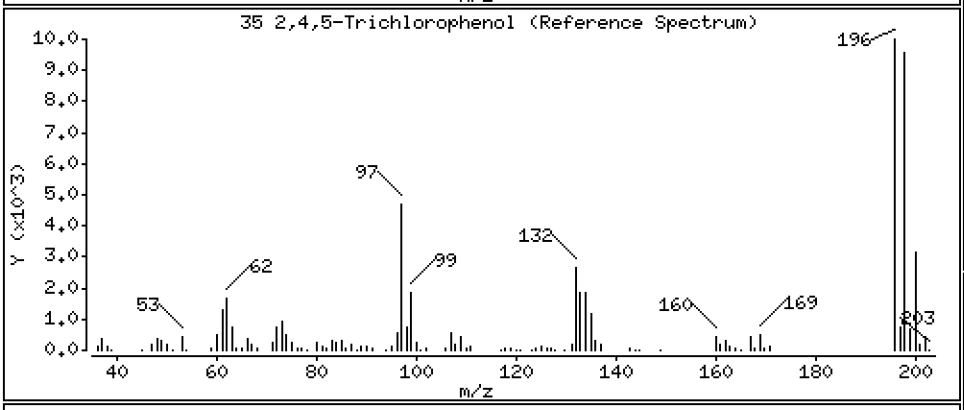
Column diameter: 0.25

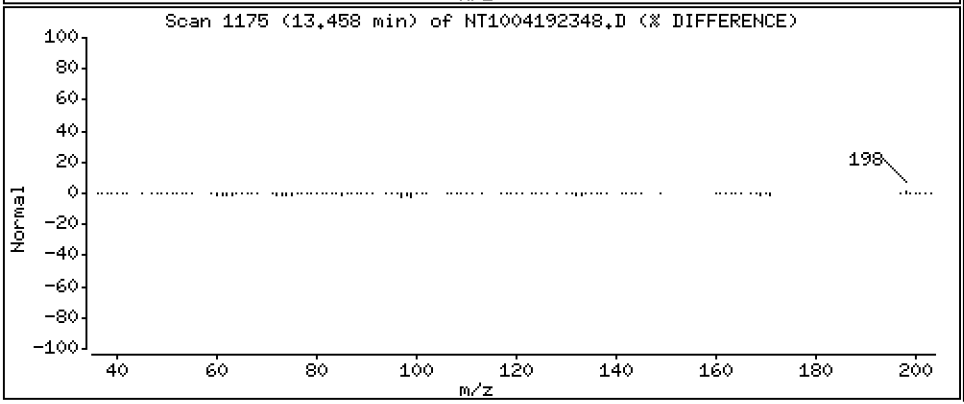
35 2,4,5-Trichlorophenol

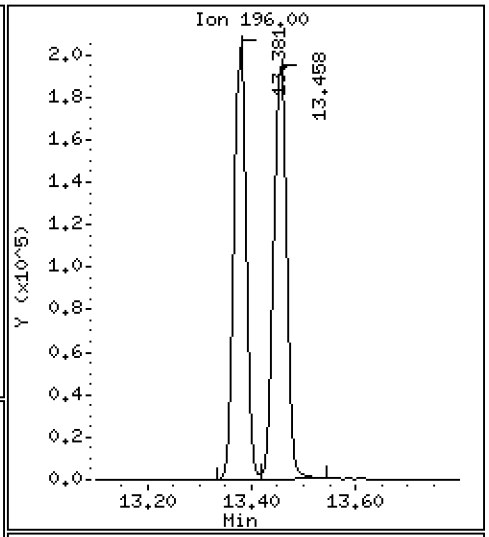
Concentration: 10.03 ug/mL

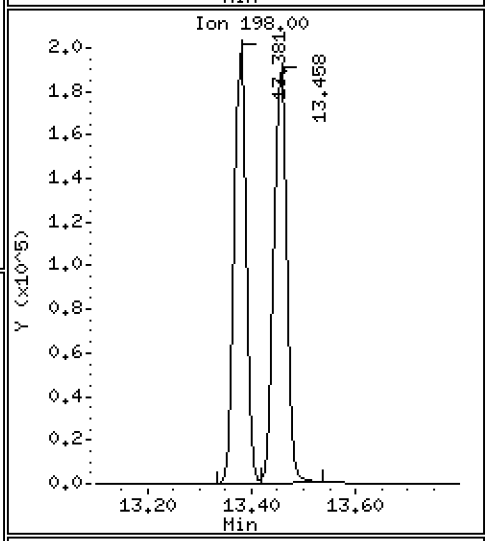


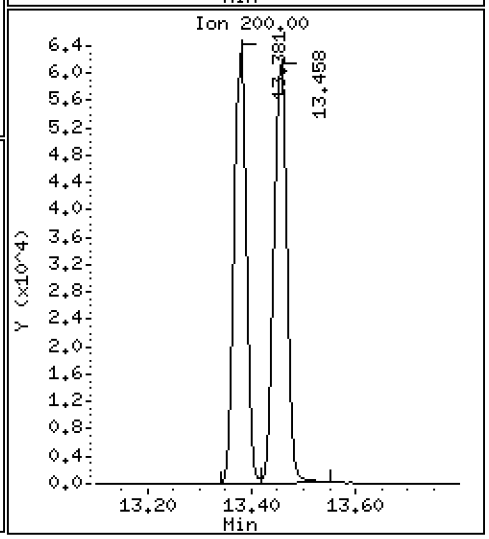












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

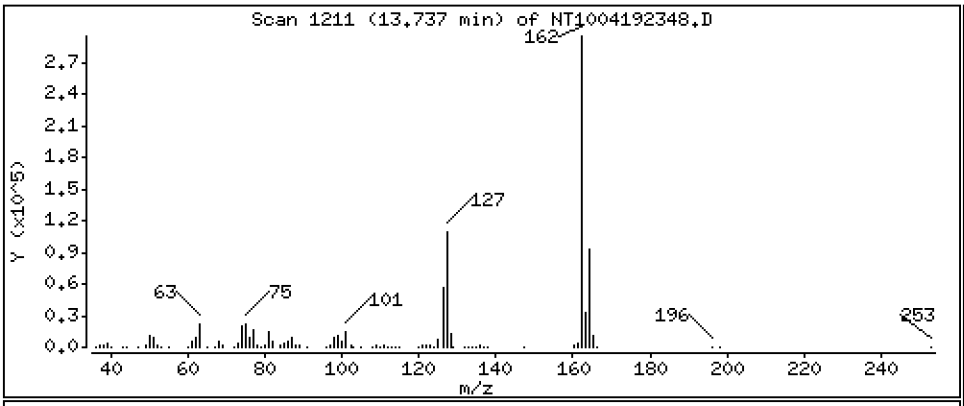
Operator: VTS

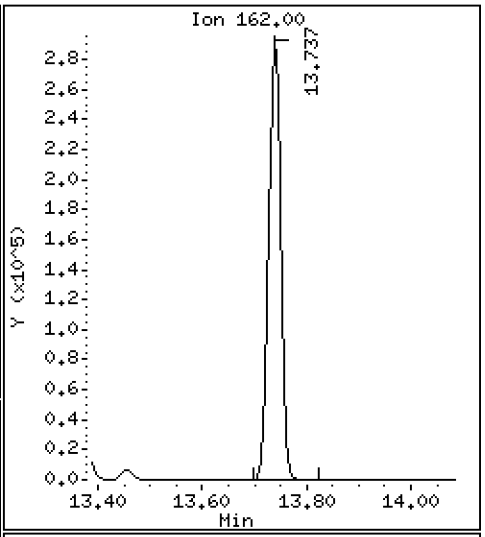
Column phase: ZB-5msi

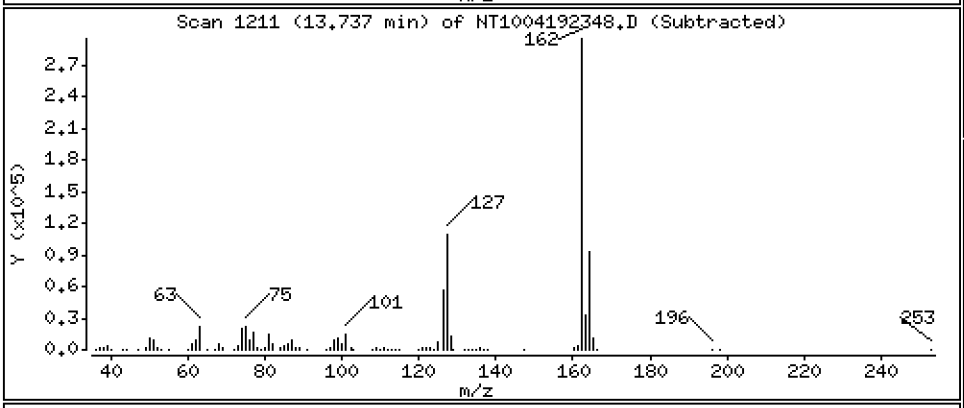
Column diameter: 0.25

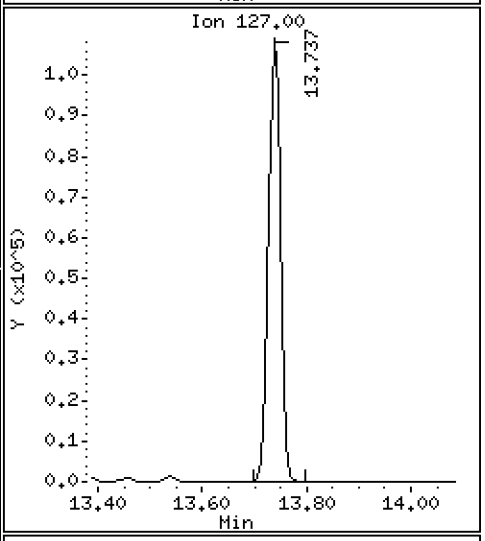
37 2-Chloronaphthalene

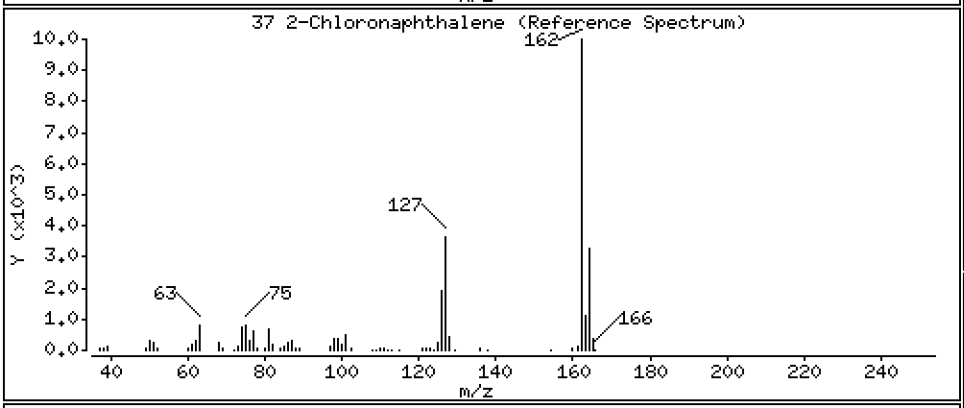
Concentration: 4.650 ug/mL

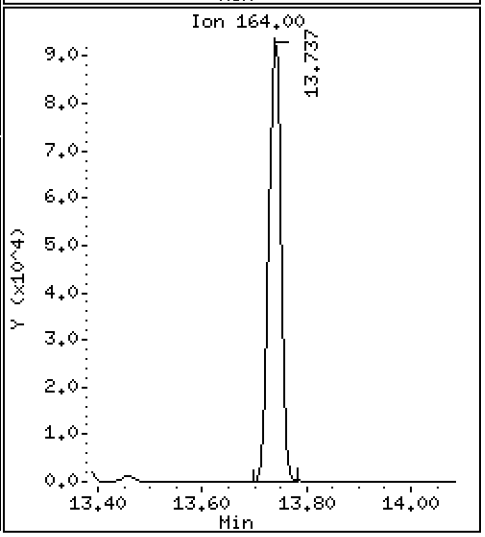


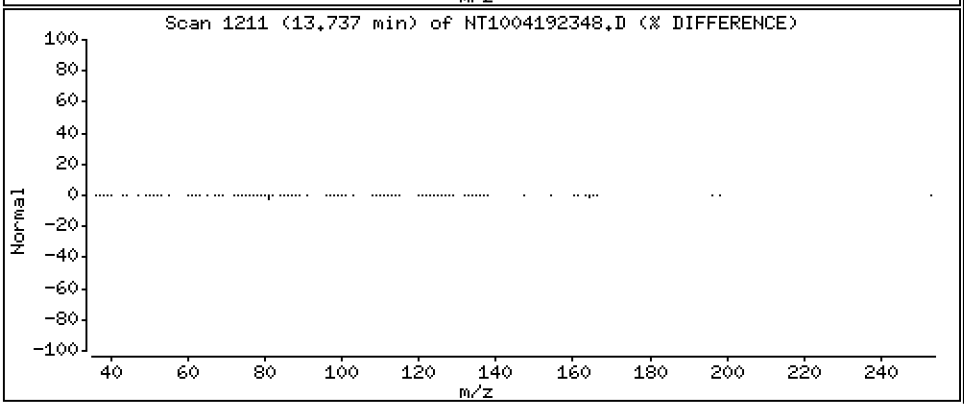












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

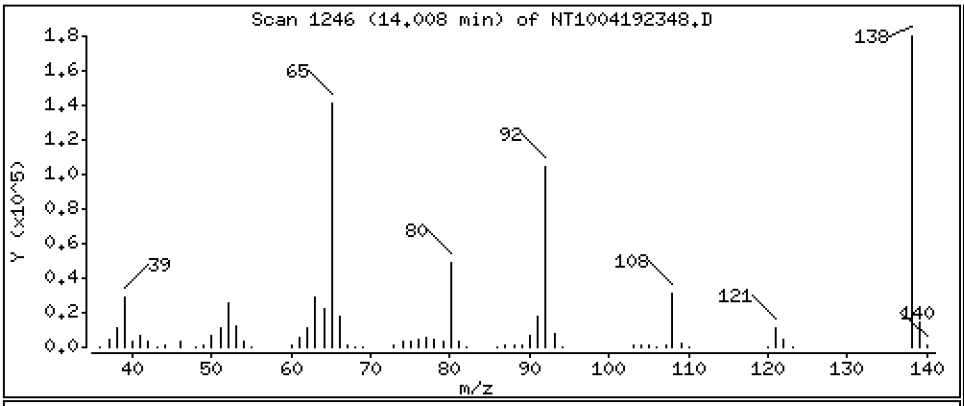
Operator: VTS

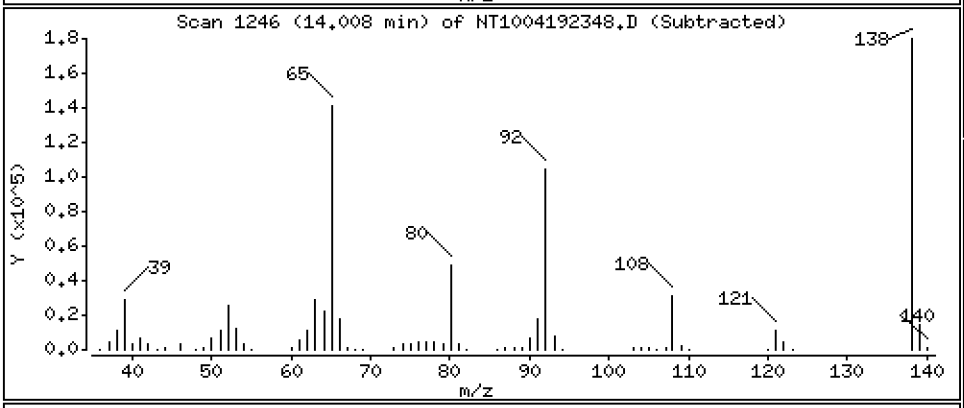
Column phase: ZB-5msi

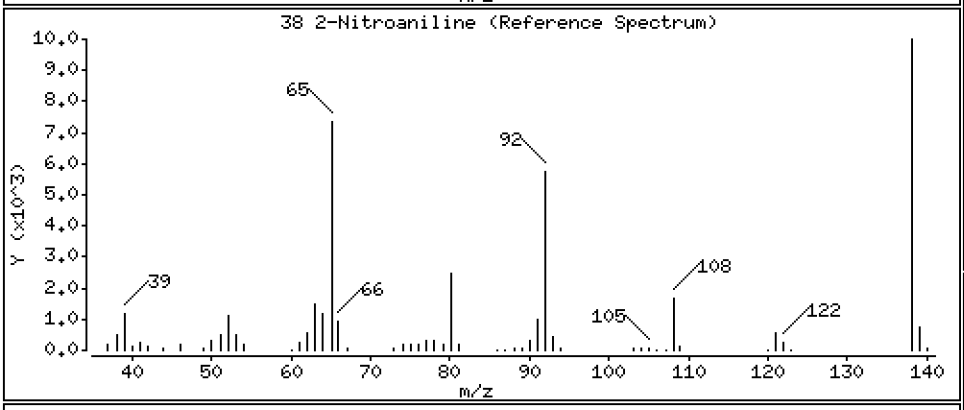
Column diameter: 0.25

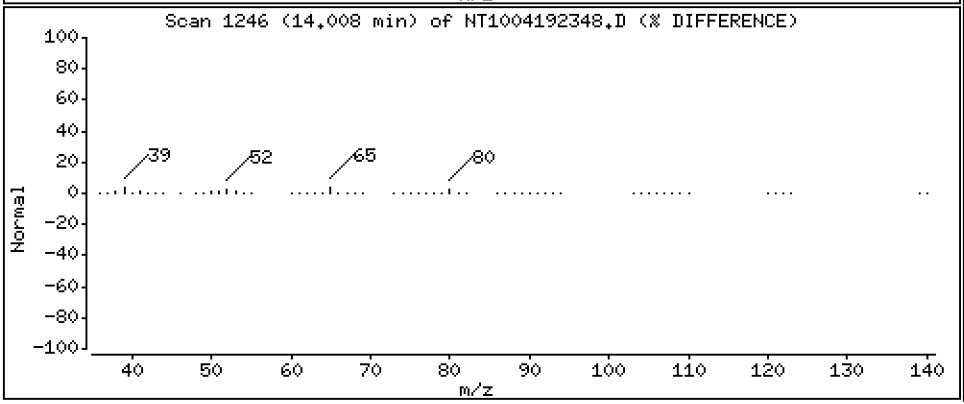
38 2-Nitroaniline

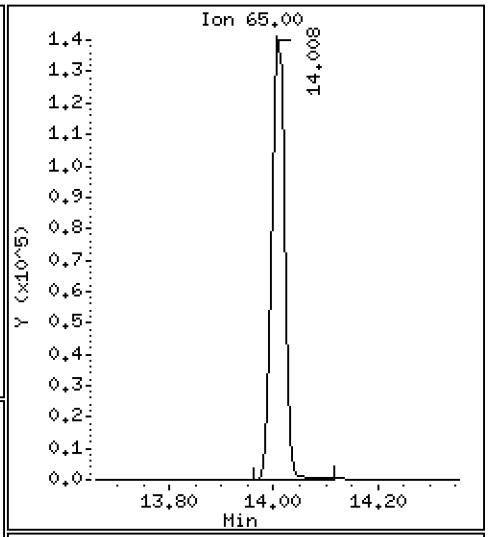
Concentration: 8.558 ug/mL

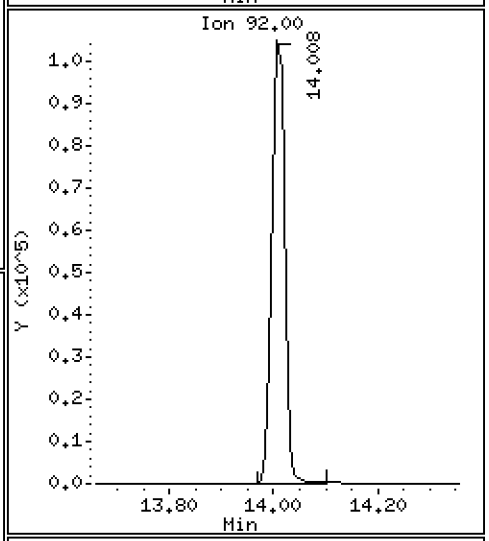


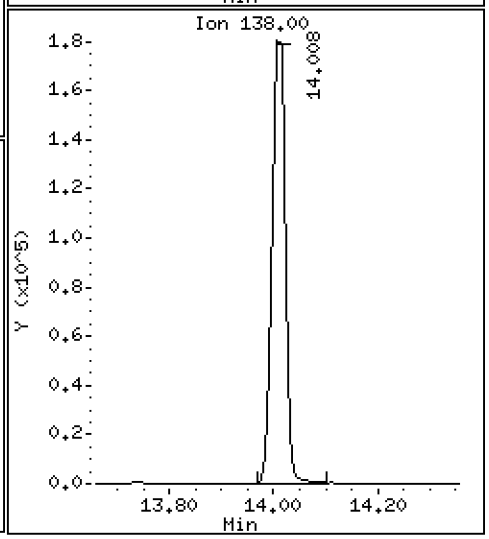












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

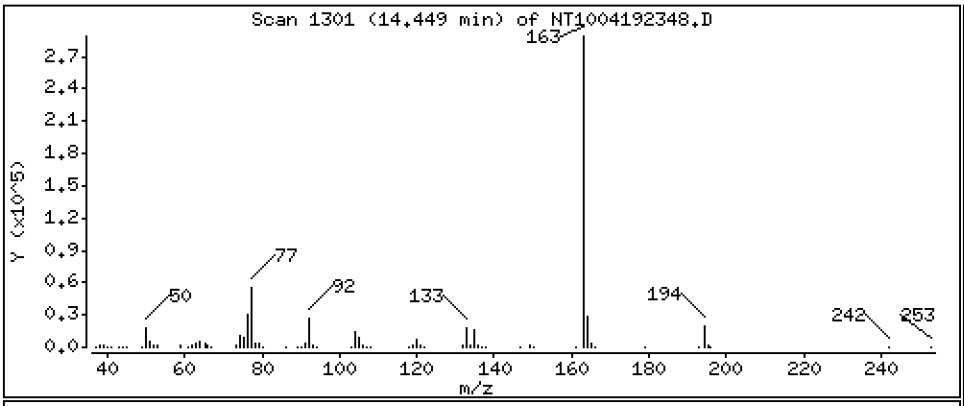
Operator: VTS

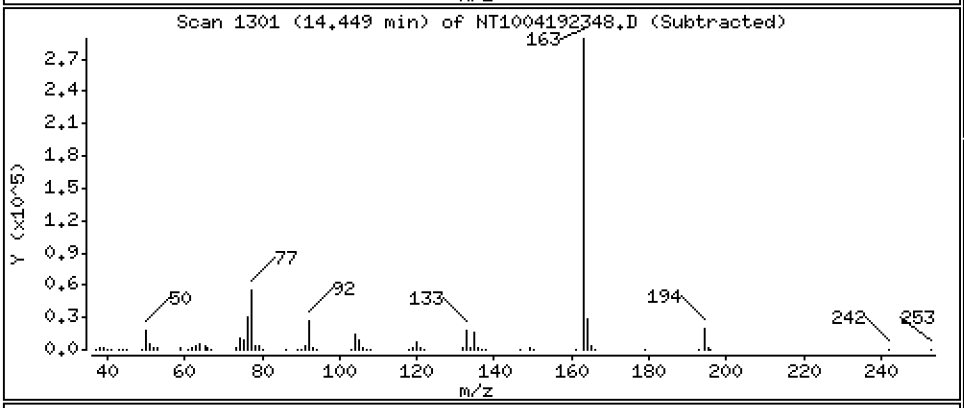
Column phase: ZB-5msi

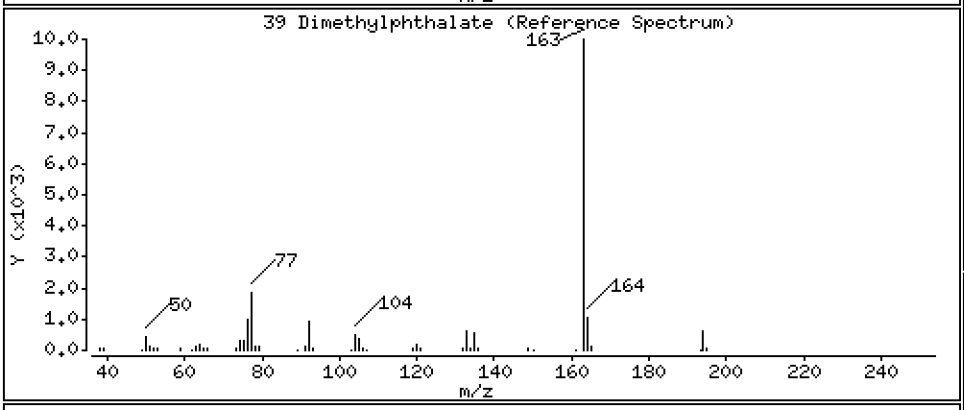
Column diameter: 0.25

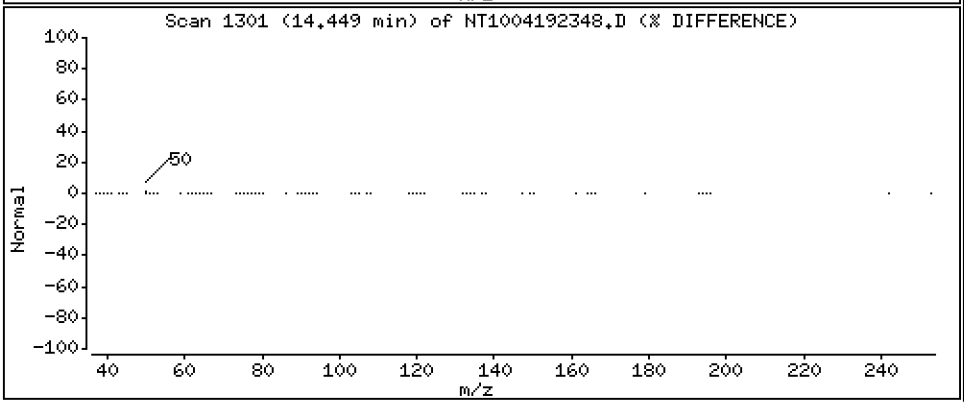
39 Dimethylphthalate

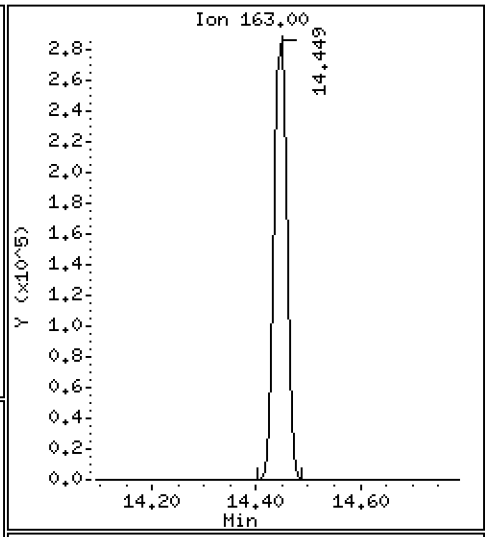
Concentration: 4.842 ug/mL

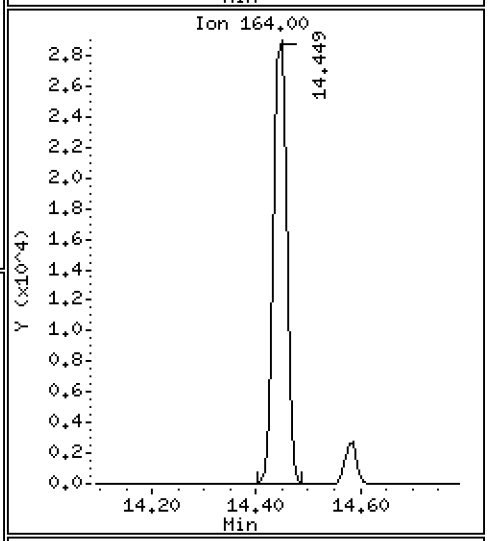


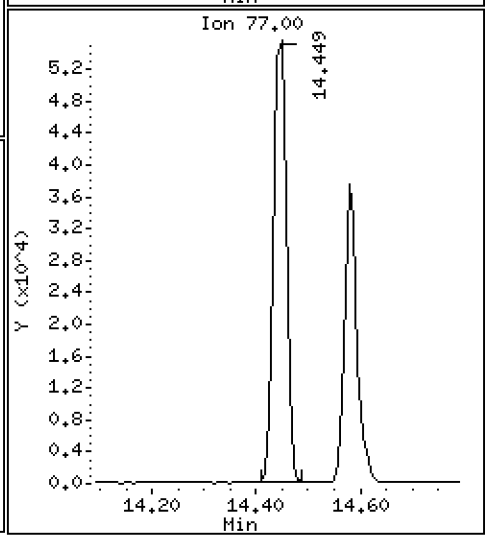












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

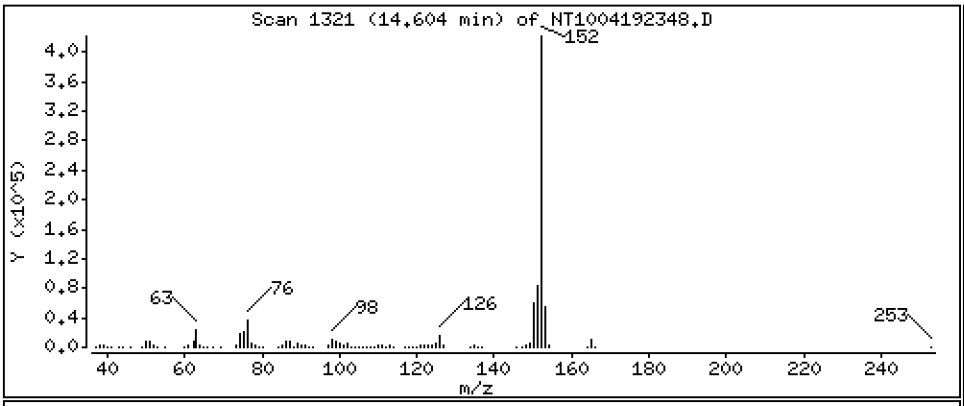
Operator: VTS

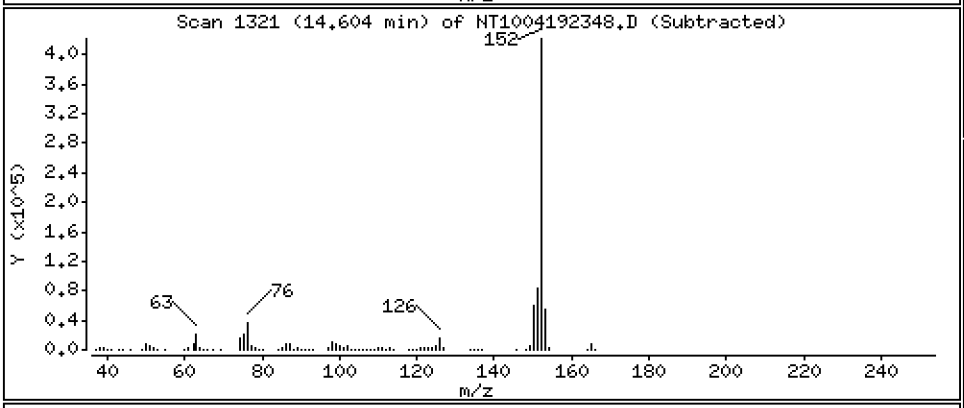
Column phase: ZB-5msi

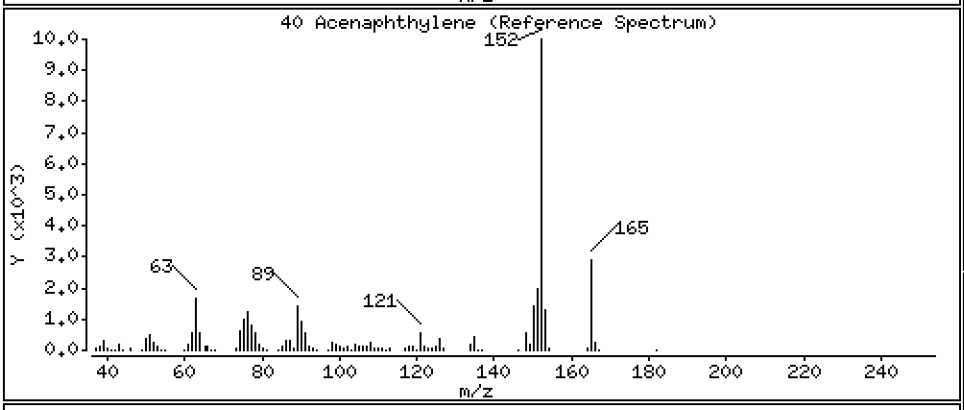
Column diameter: 0.25

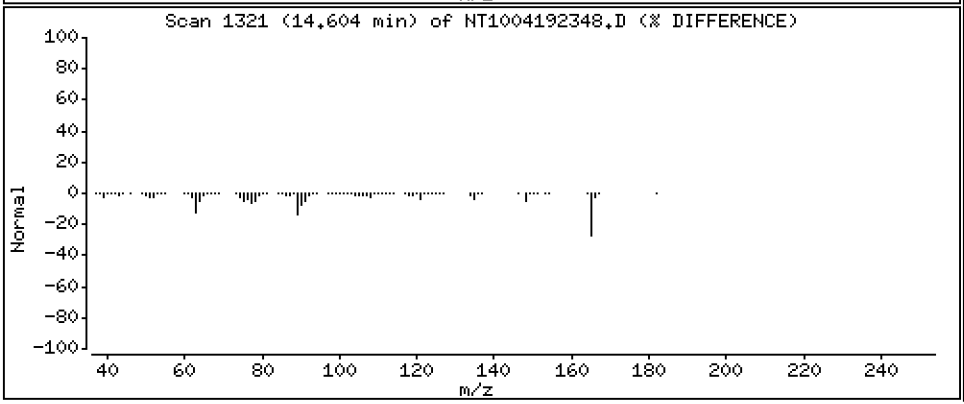
40 Acenaphthylene

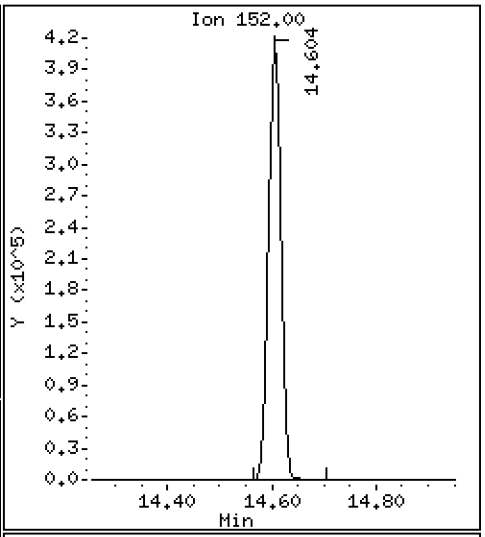
Concentration: 4.361 ug/mL

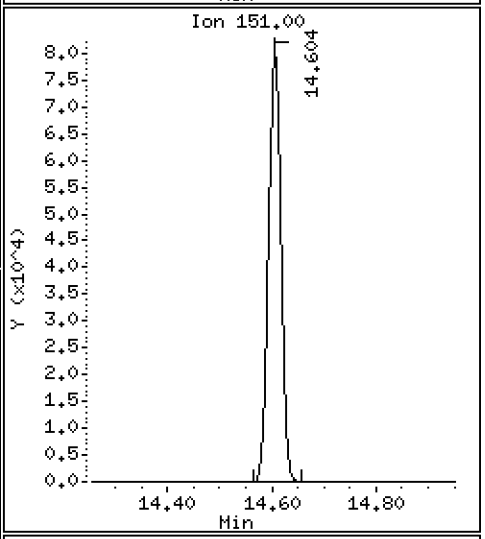


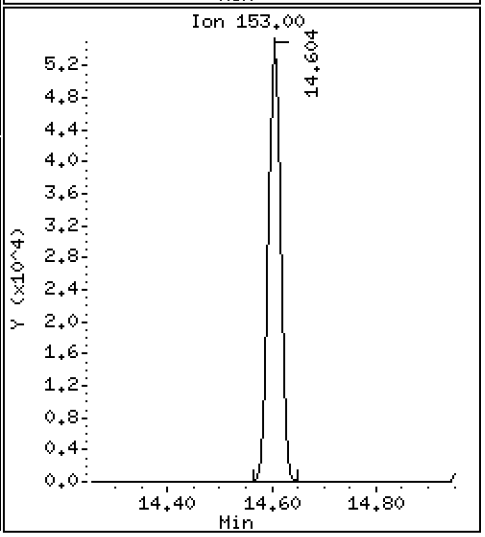












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

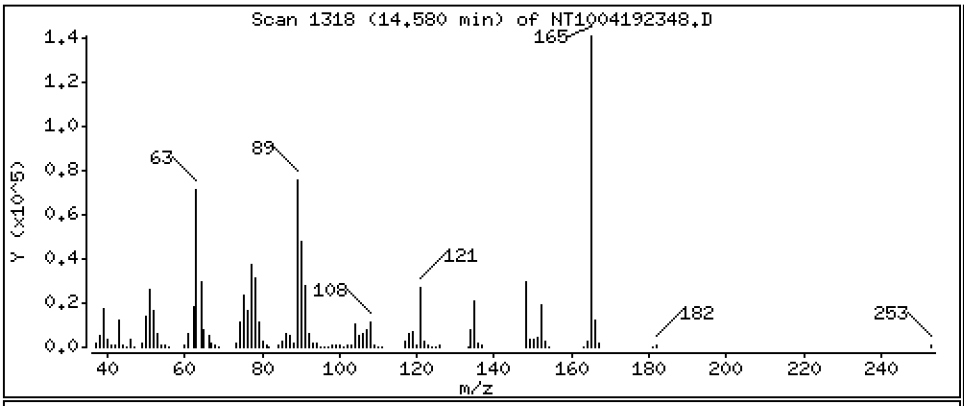
Operator: VTS

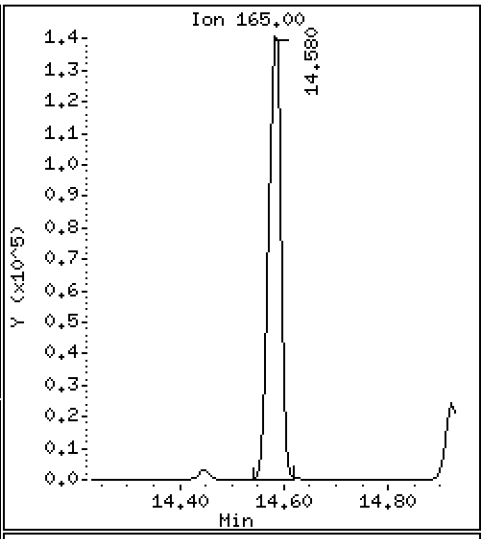
Column phase: ZB-5msi

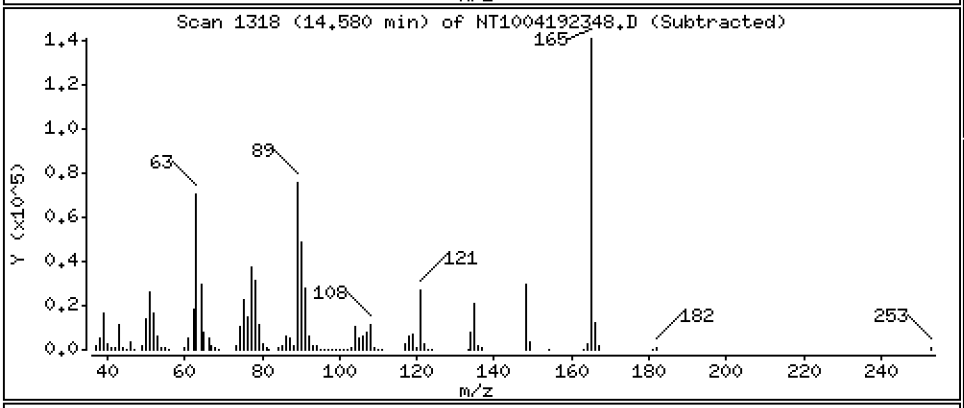
Column diameter: 0.25

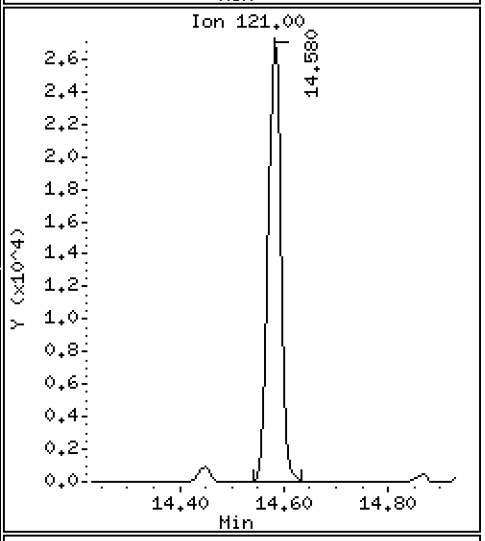
41 2,6-Dinitrotoluene

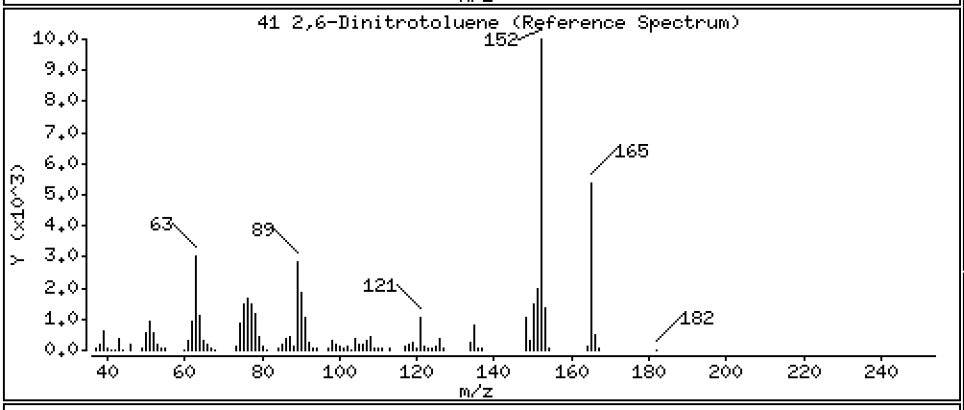
Concentration: 10.54 ug/mL

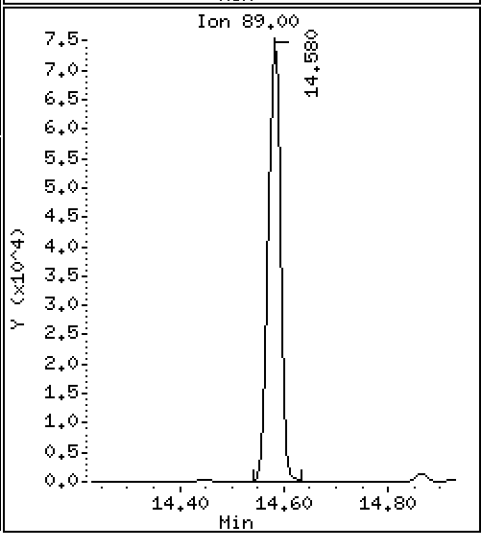


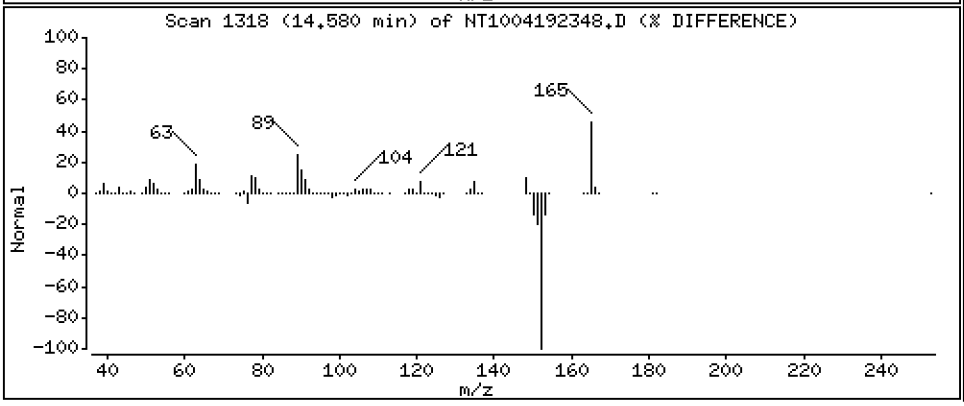












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

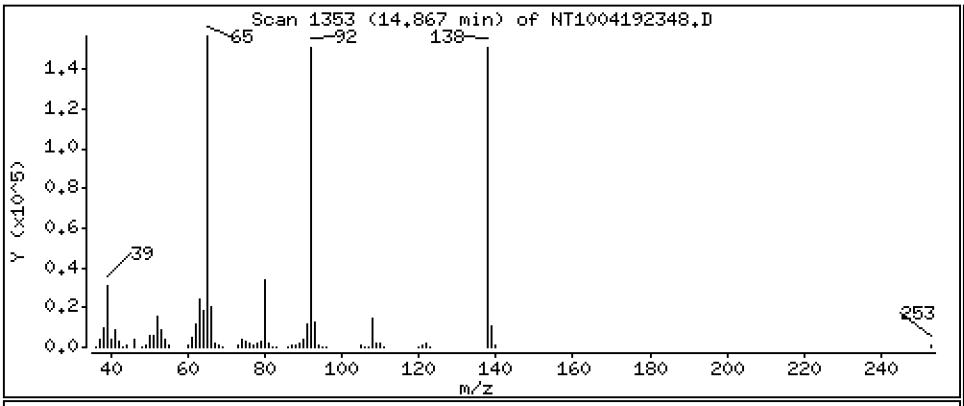
Operator: VTS

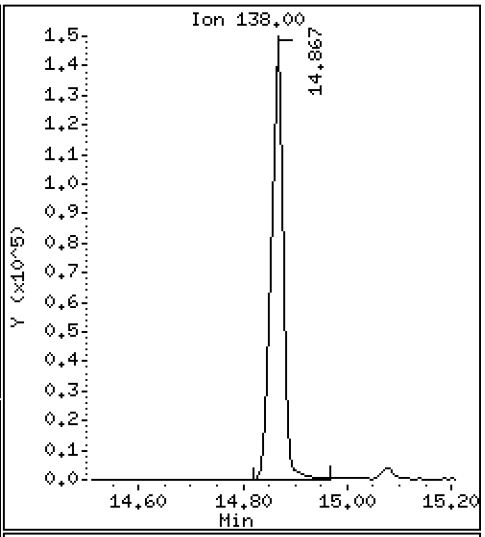
Column phase: ZB-5msi

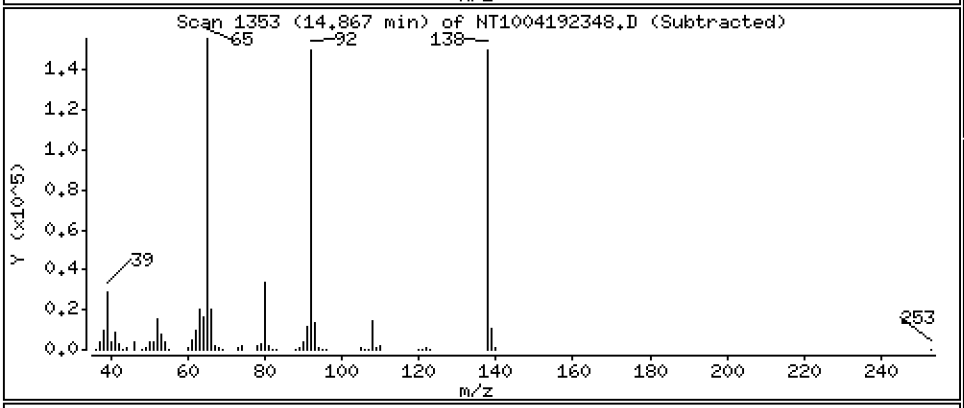
Column diameter: 0.25

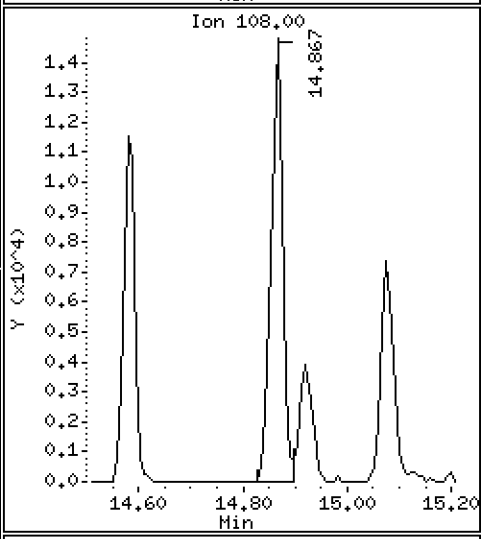
43 3-Nitroaniline

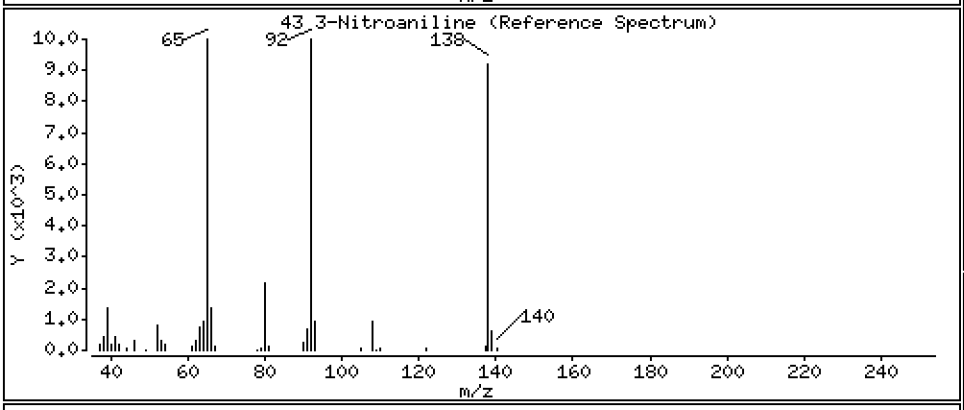
Concentration: 9.708 ug/mL

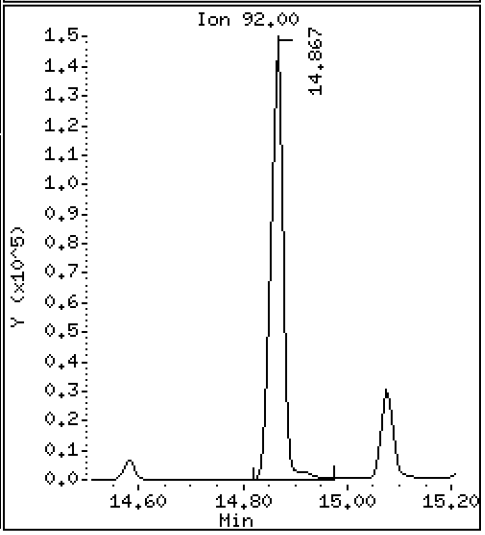


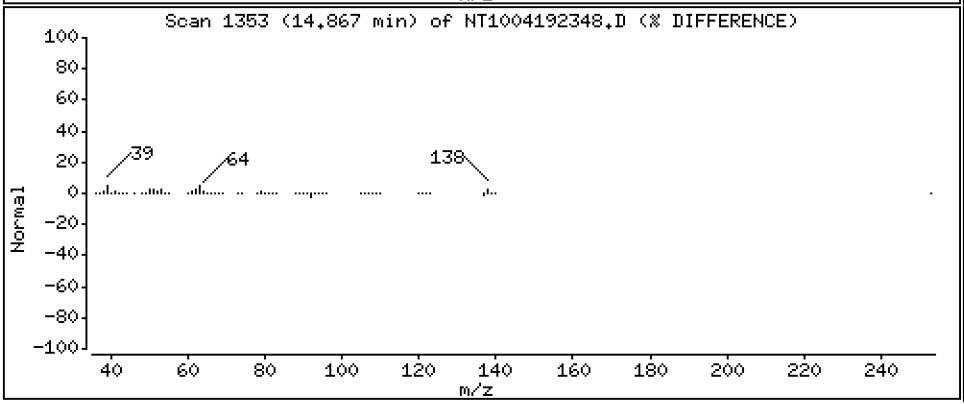












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

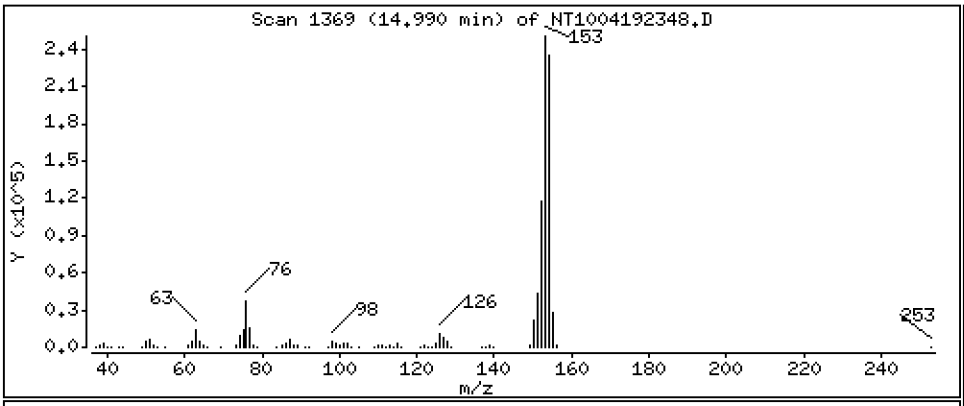
Operator: VTS

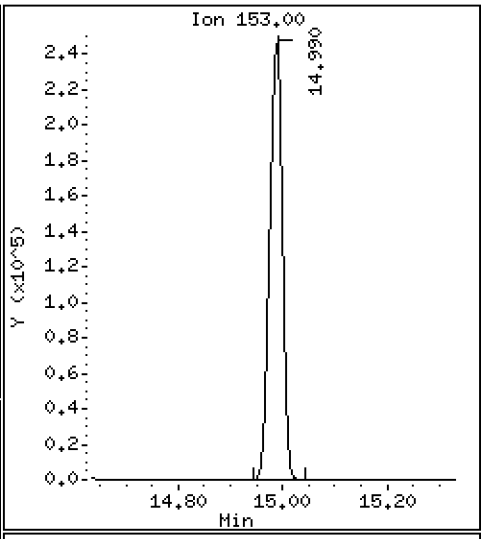
Column phase: ZB-5msi

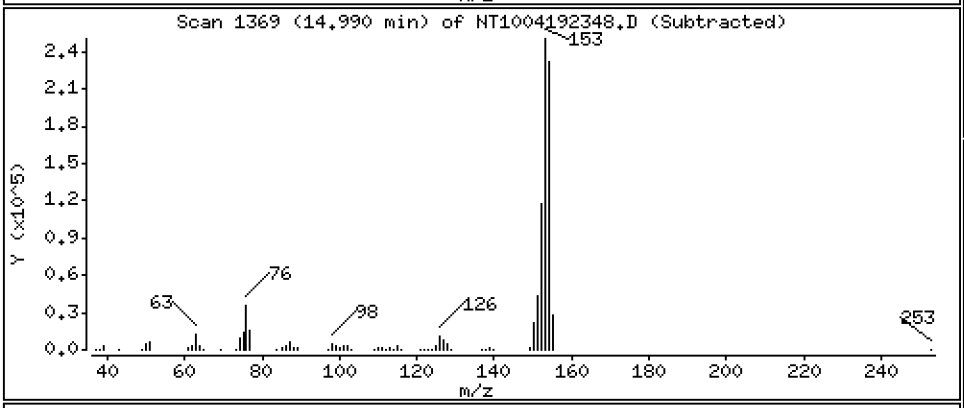
Column diameter: 0.25

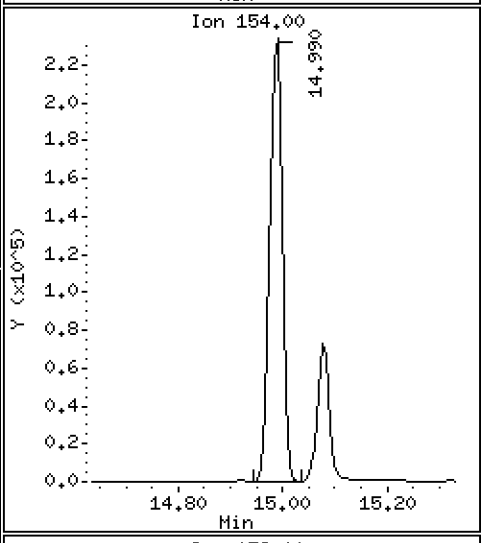
44 Acenaphthene

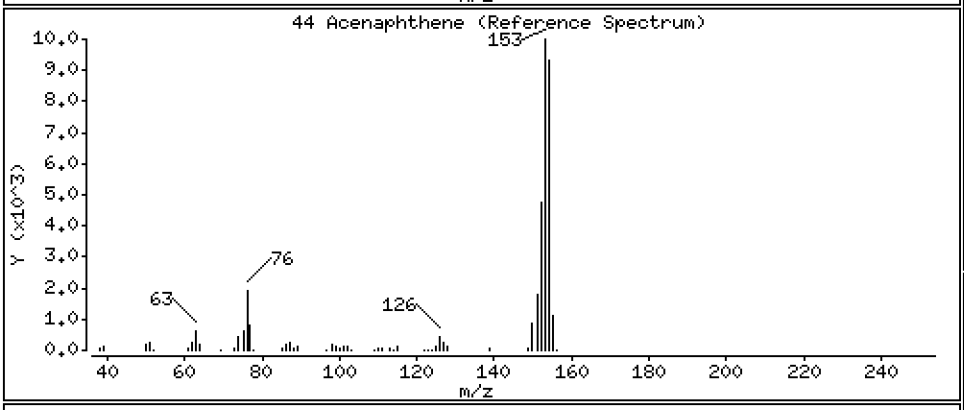
Concentration: 4.356 ug/mL

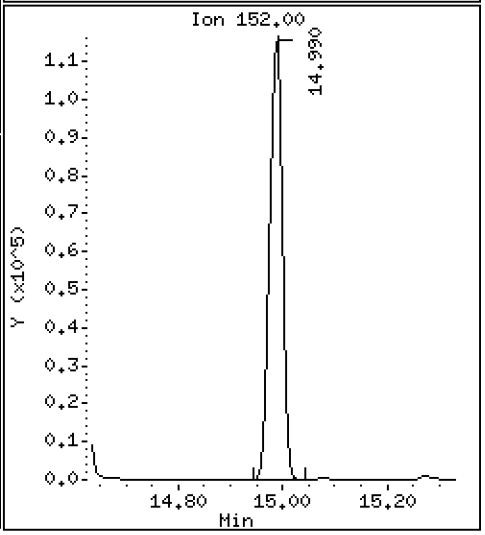


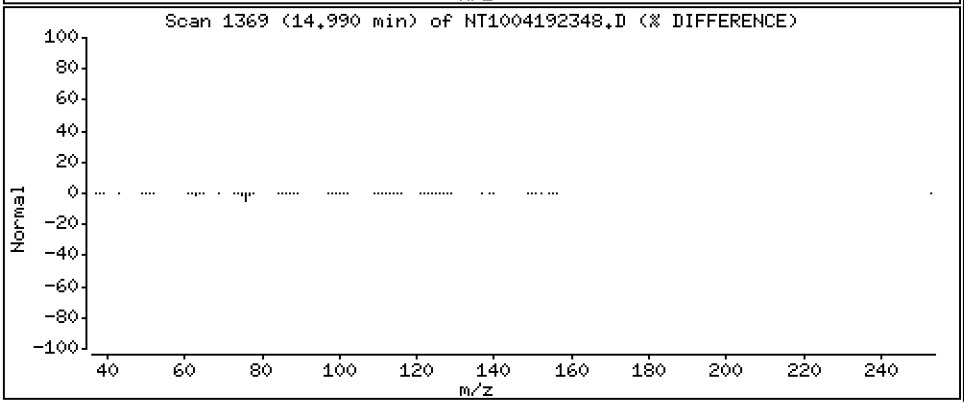












Date : 20-APR-2023 17:12

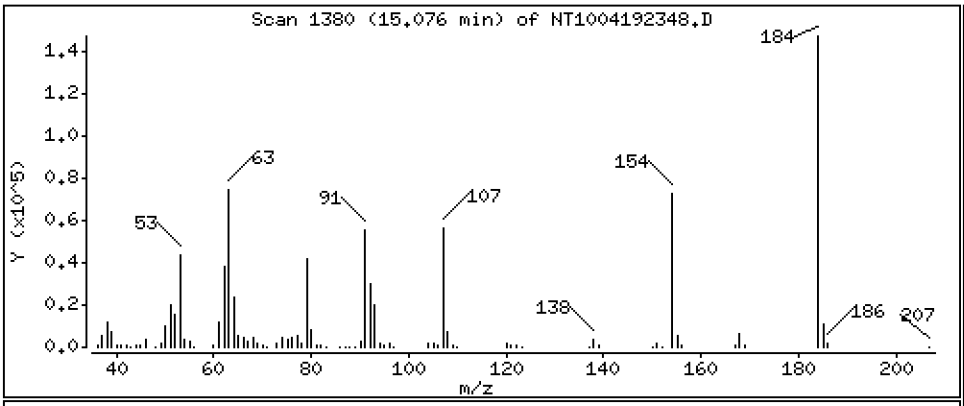
Client ID: Instrument: nt10.i

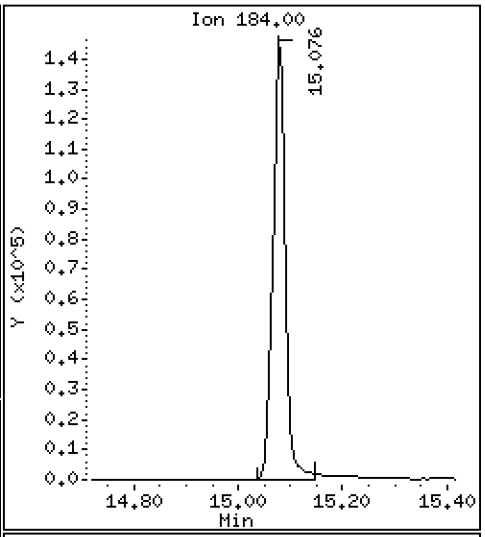
Sample Info: SLD0293-CCV1

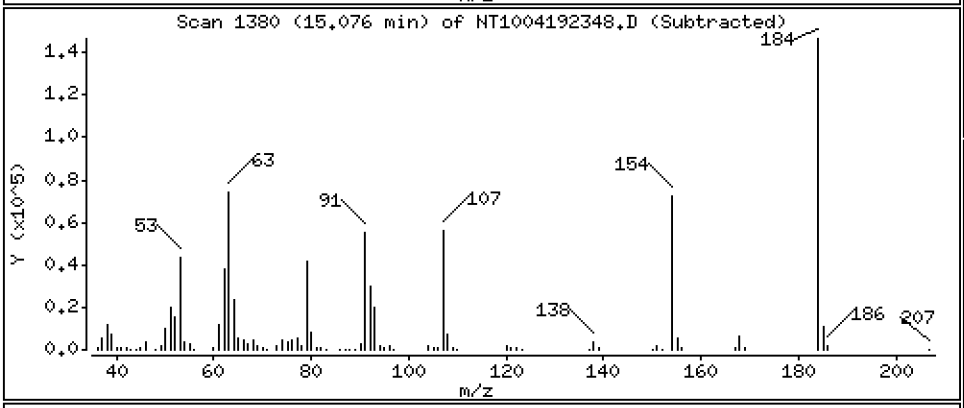
Operator: VTS

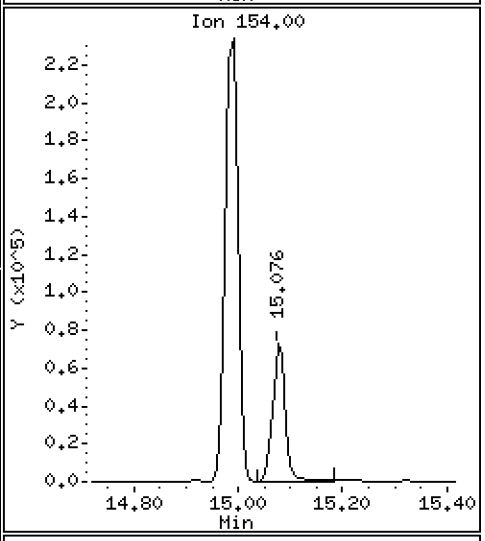
Column phase: ZB-5msi Column diameter: 0.25

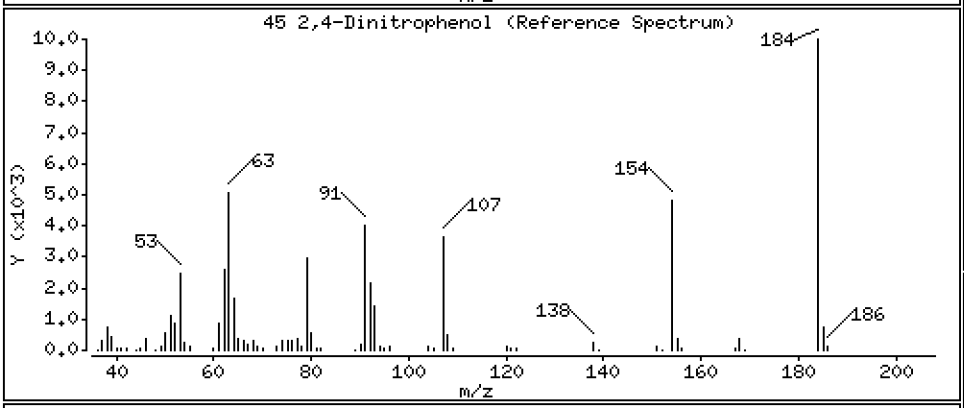
45 2,4-Dinitrophenol Concentration: 18.14 ug/mL

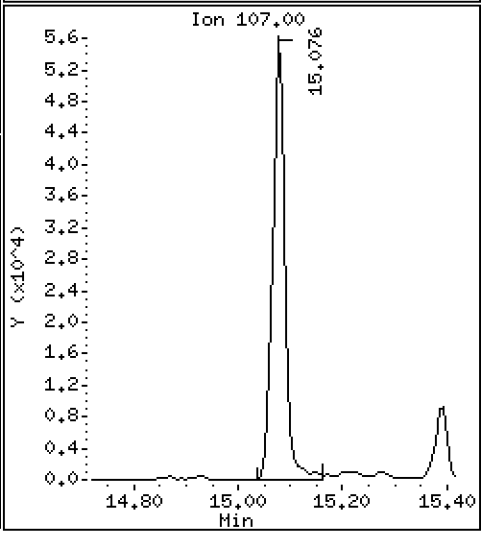


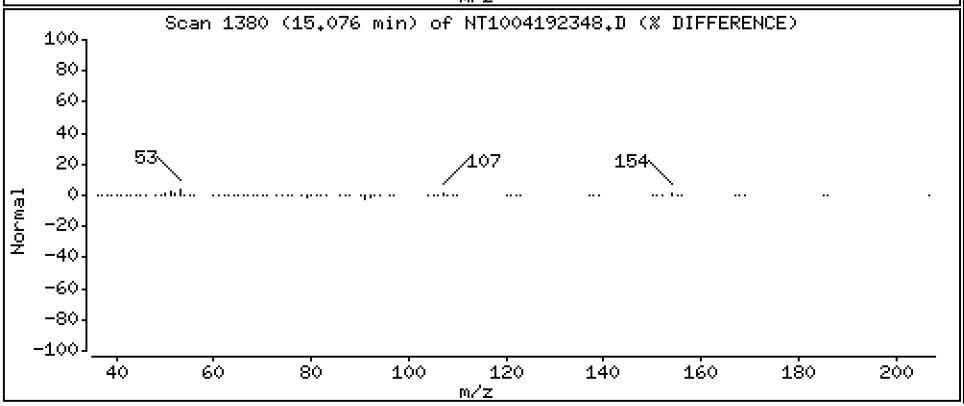












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

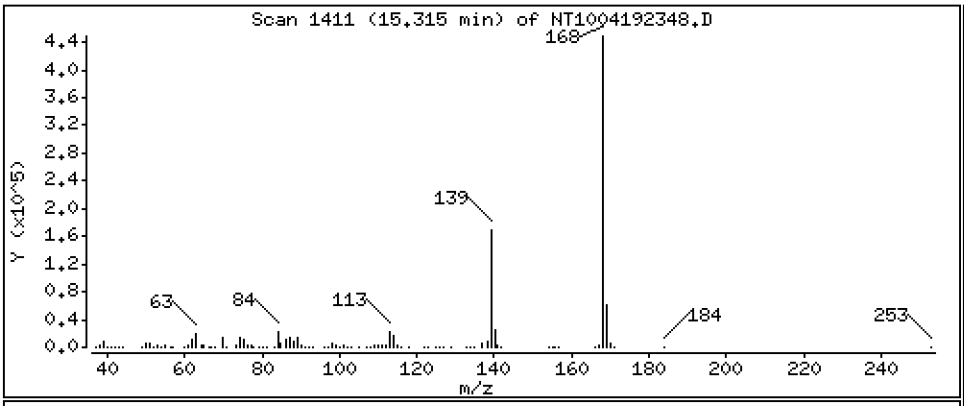
Operator: VTS

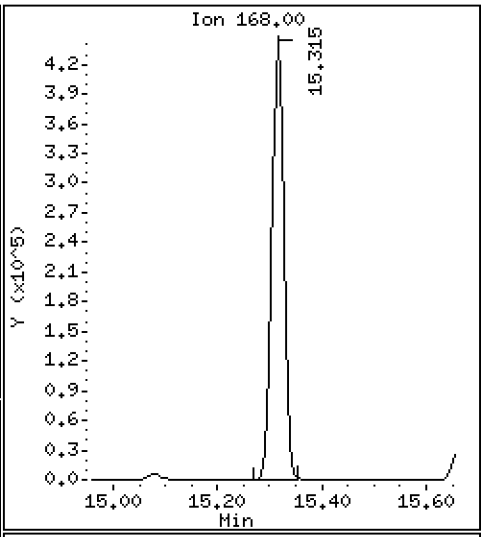
Column phase: ZB-5msi

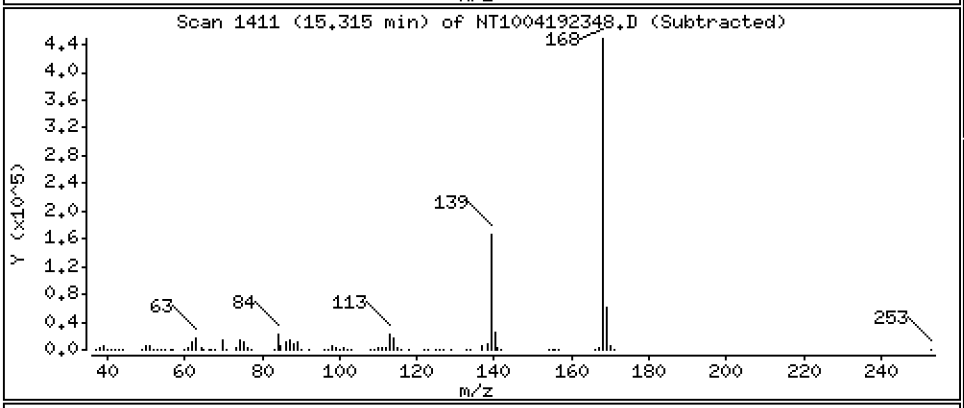
Column diameter: 0.25

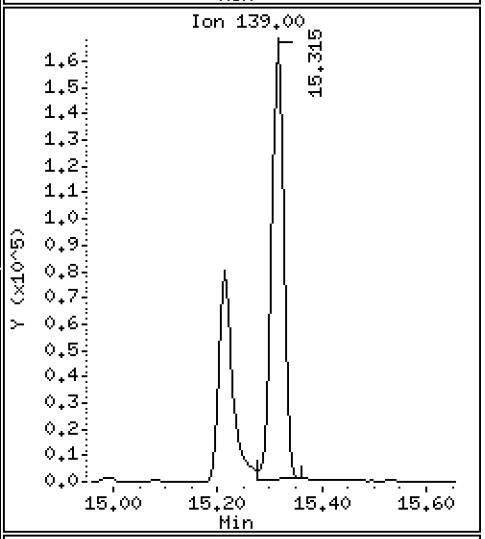
46 Dibenzofuran

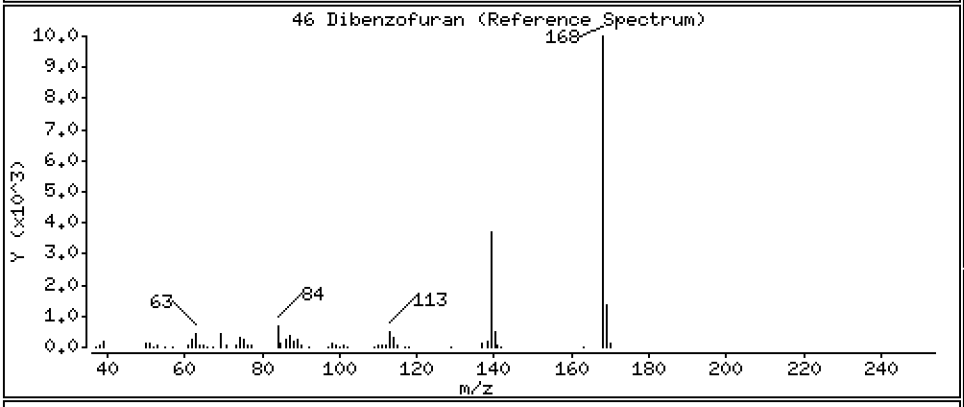
Concentration: 4.934 ug/mL

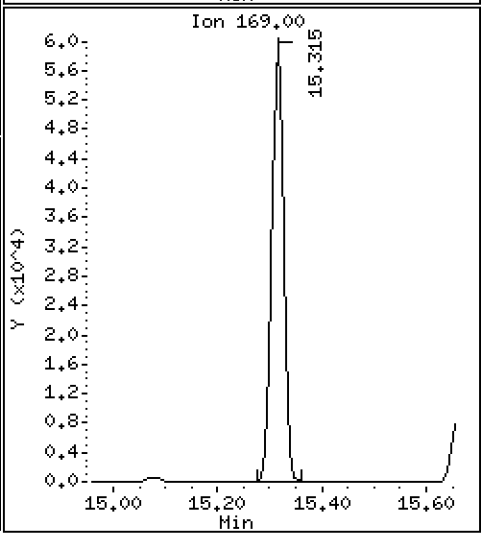


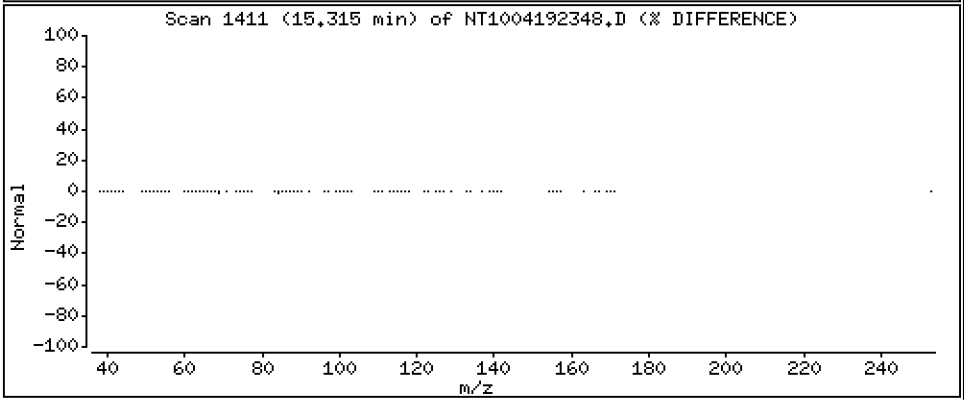












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

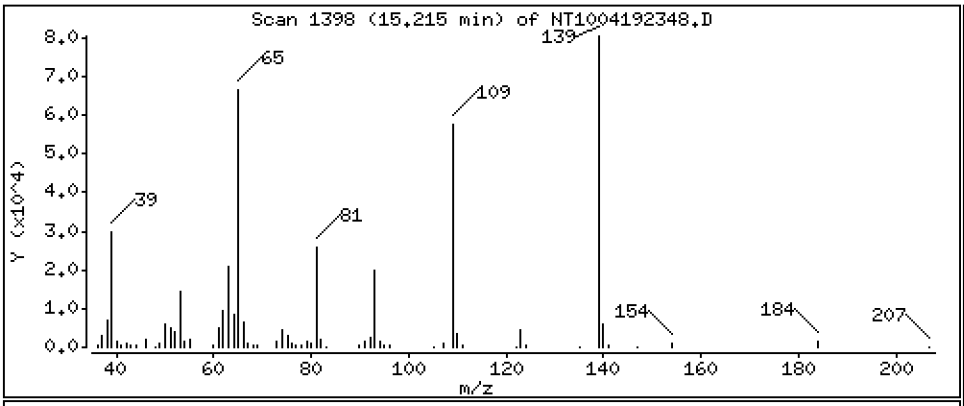
Operator: VTS

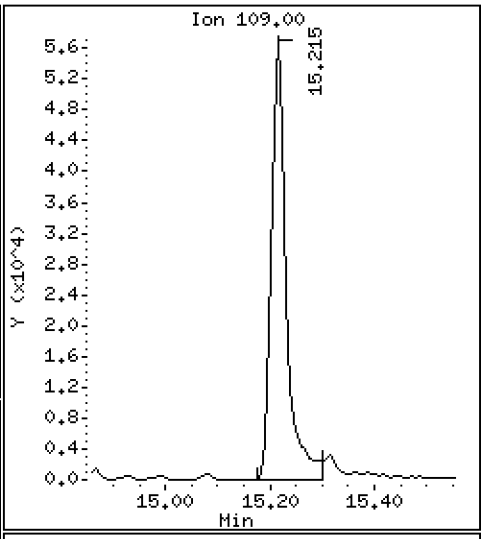
Column phase: ZB-5msi

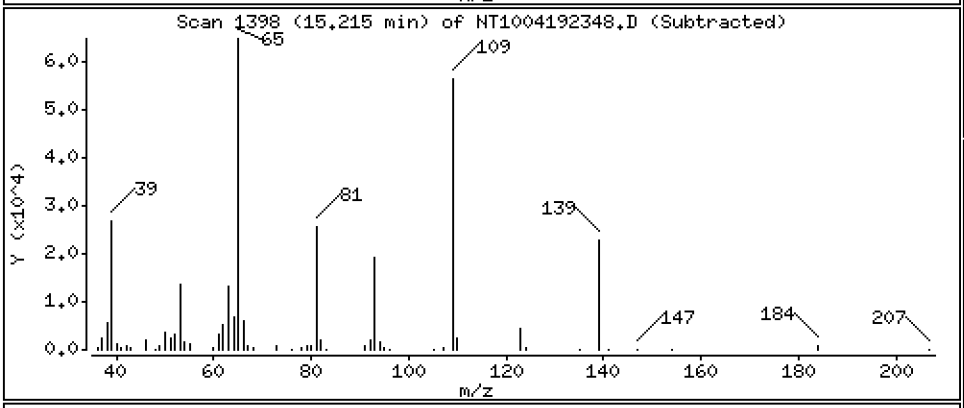
Column diameter: 0.25

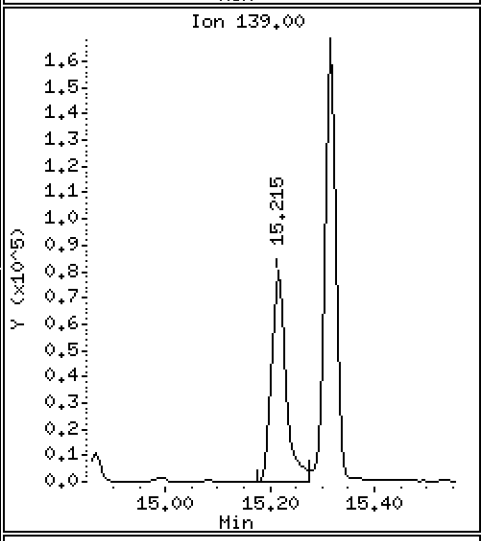
47 4-Nitrophenol

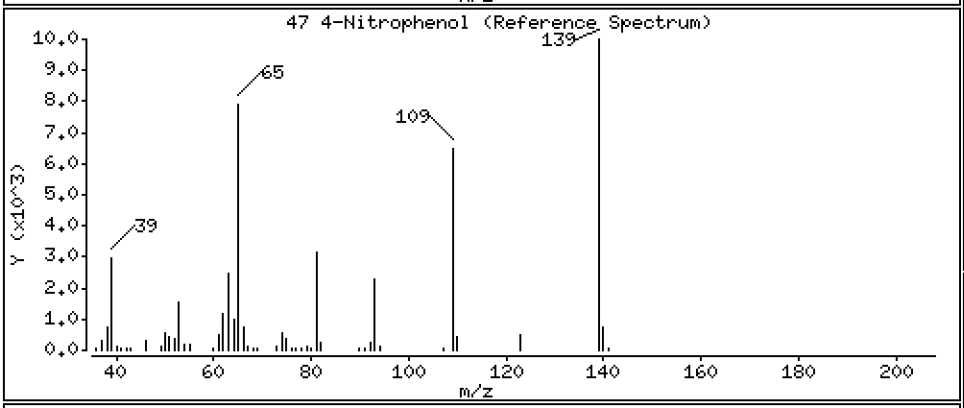
Concentration: 7.559 ug/mL

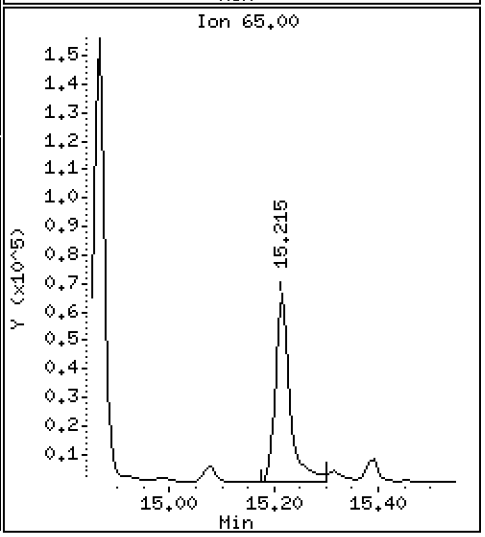


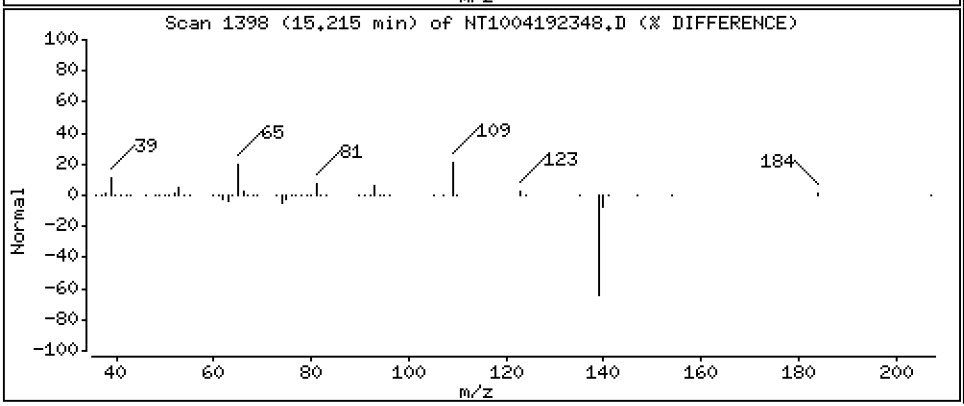












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

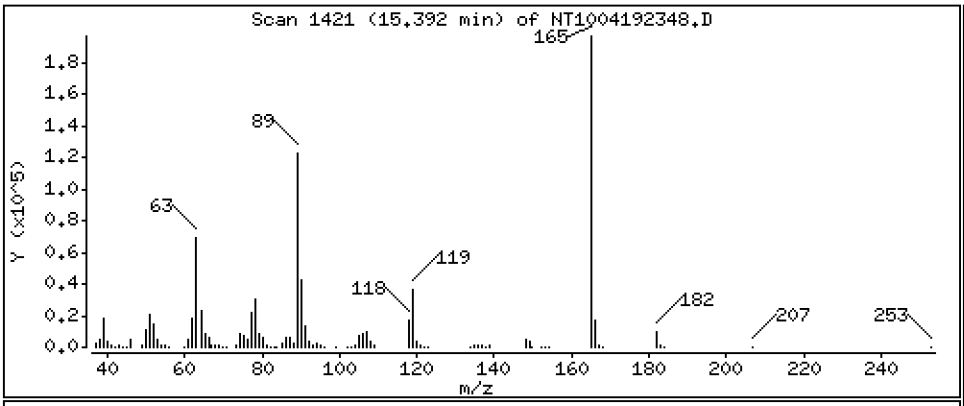
Operator: VTS

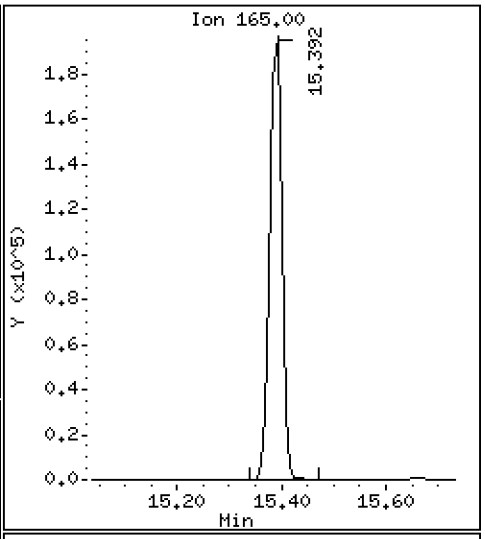
Column phase: ZB-5msi

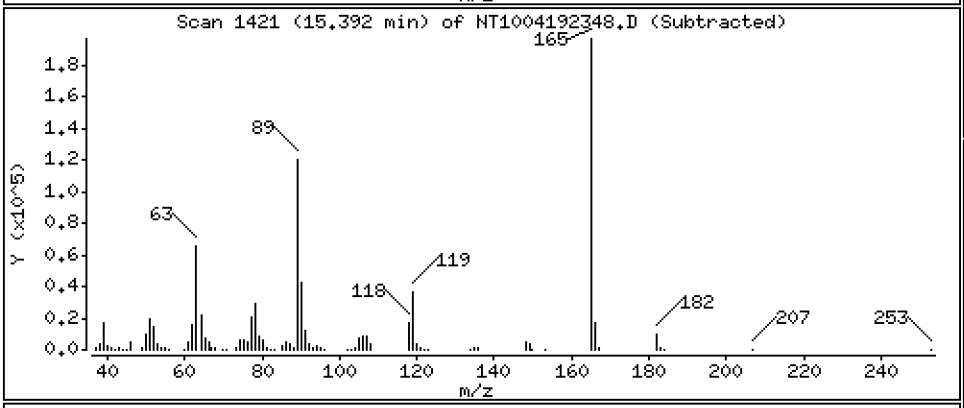
Column diameter: 0.25

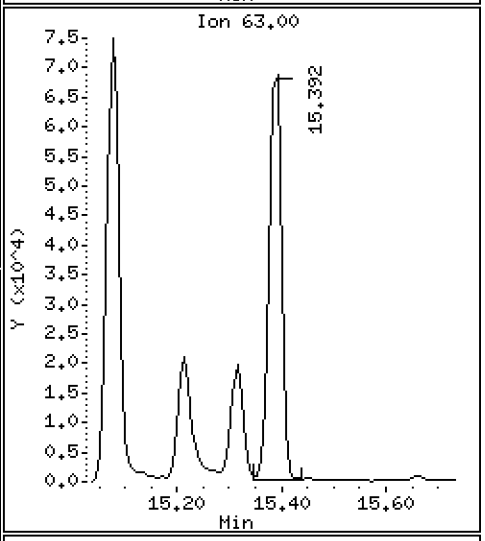
48 2,4-Dinitrotoluene

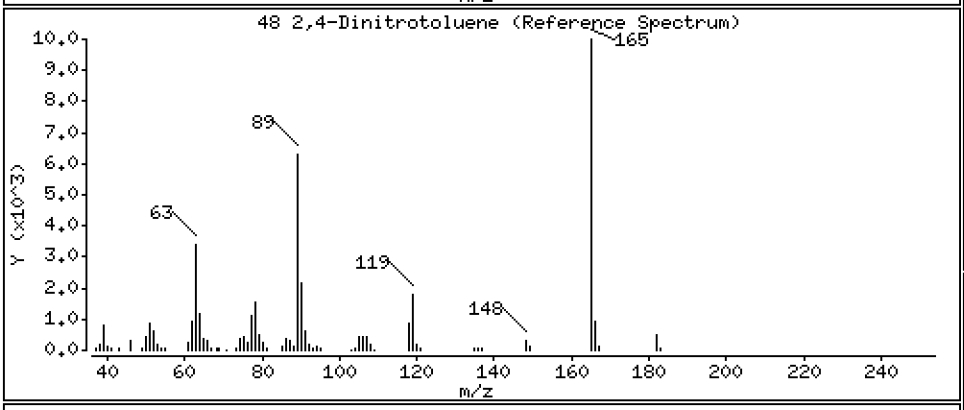
Concentration: 9.626 ug/mL

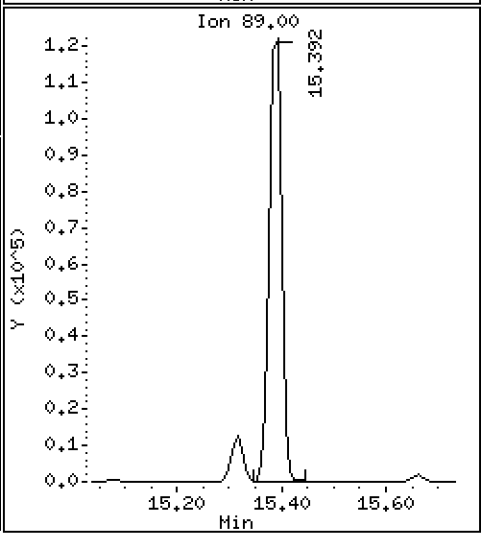


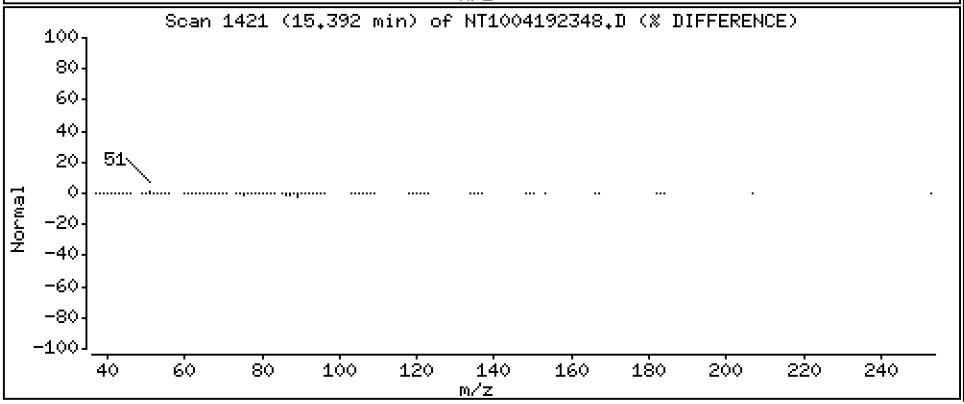












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

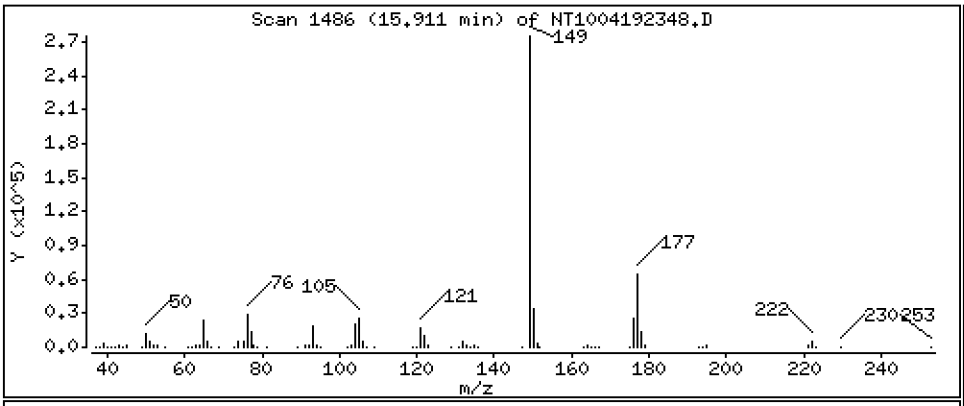
Operator: VTS

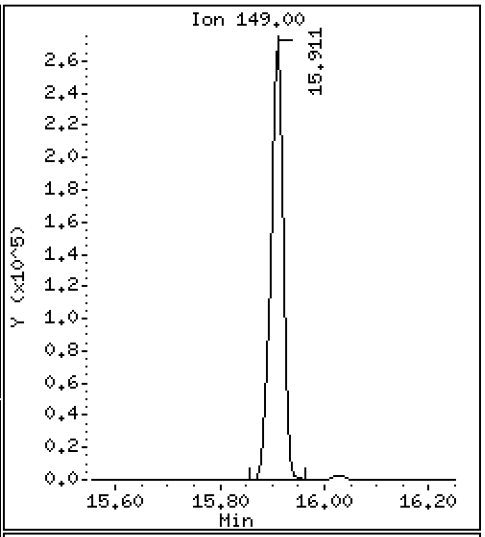
Column phase: ZB-5msi

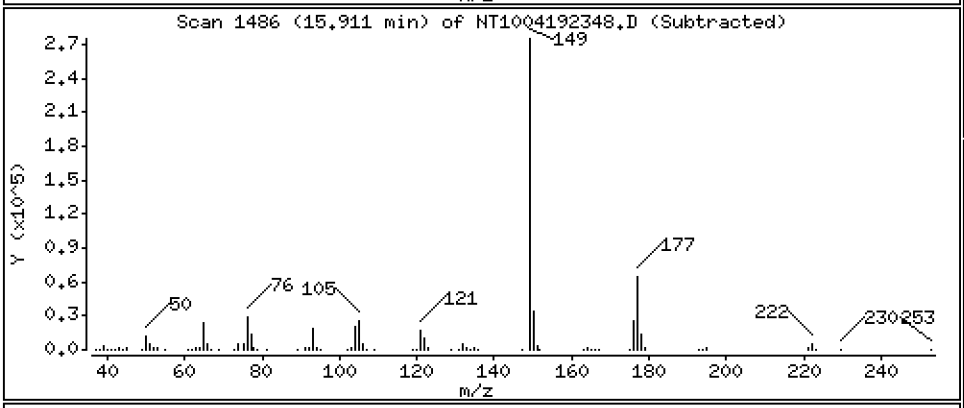
Column diameter: 0.25

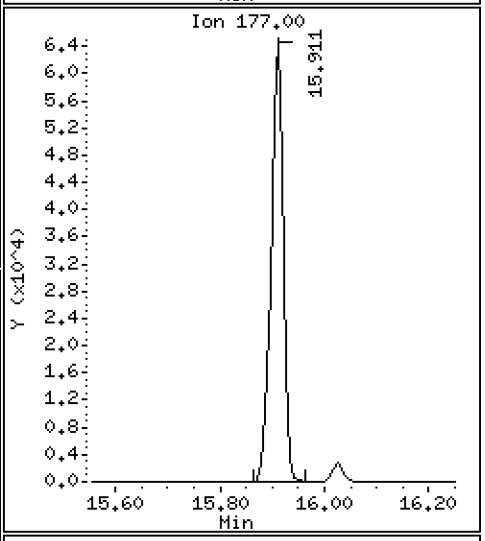
50 Diethylphthalate

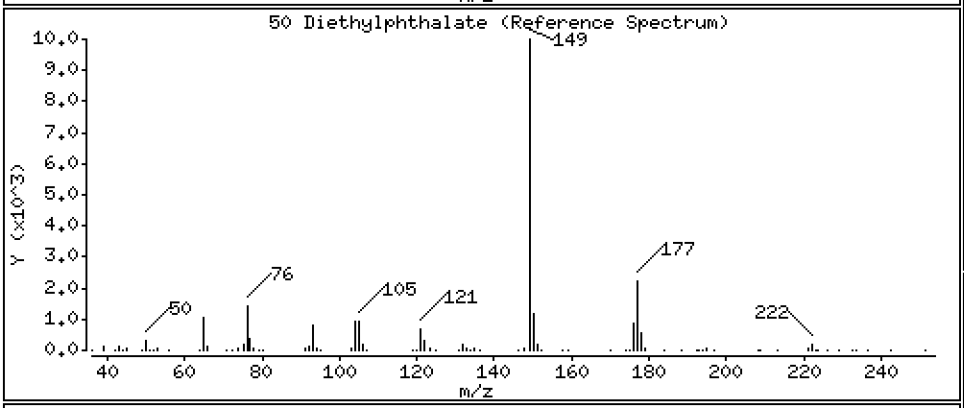
Concentration: 5.583 ug/mL

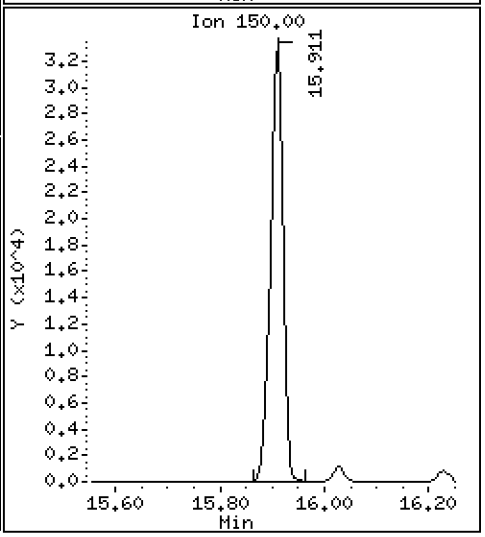


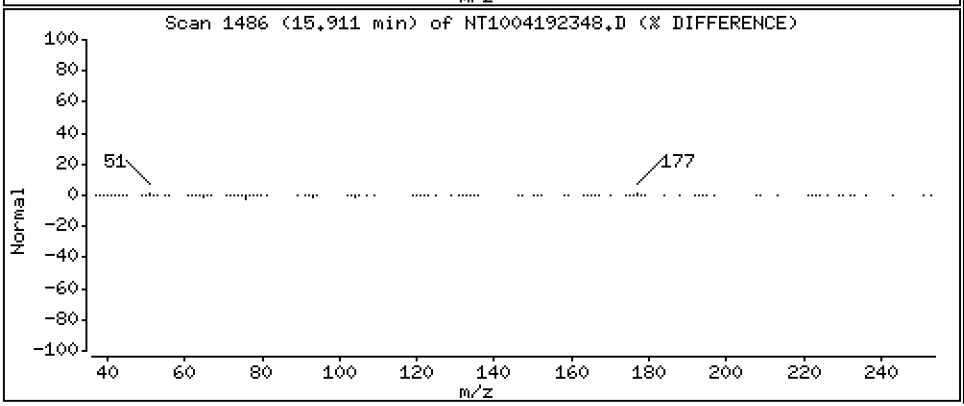












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

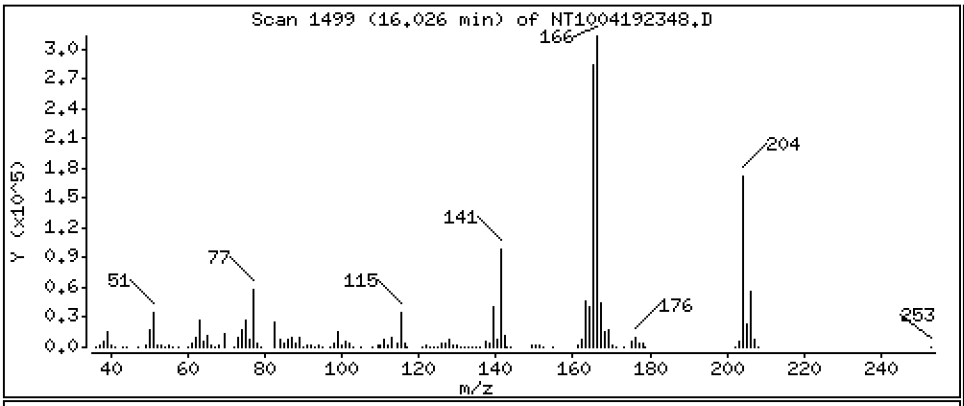
Operator: VTS

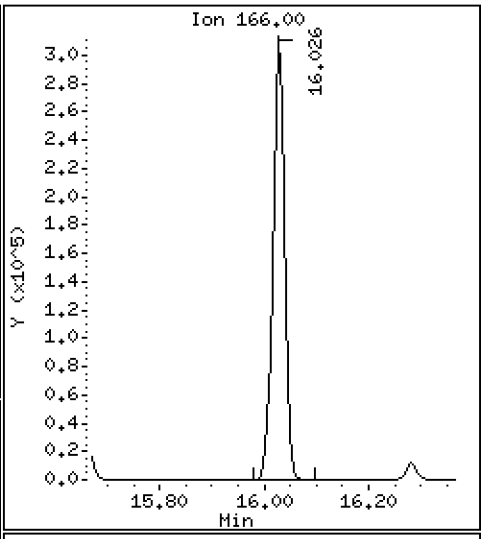
Column phase: ZB-5msi

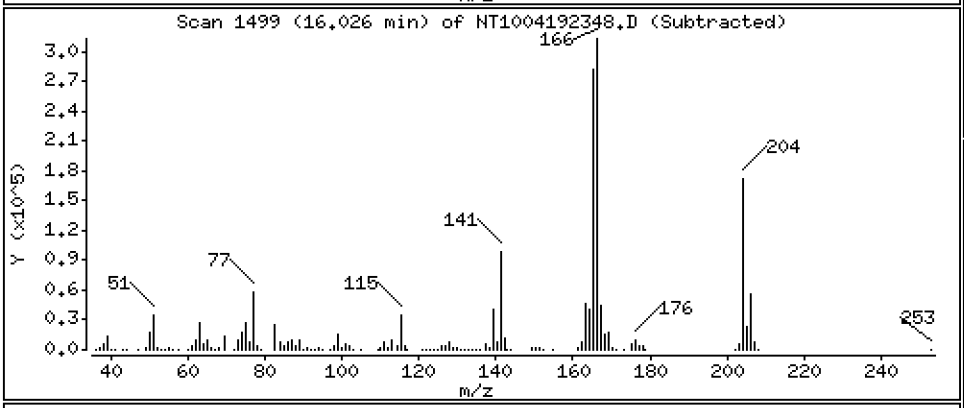
Column diameter: 0.25

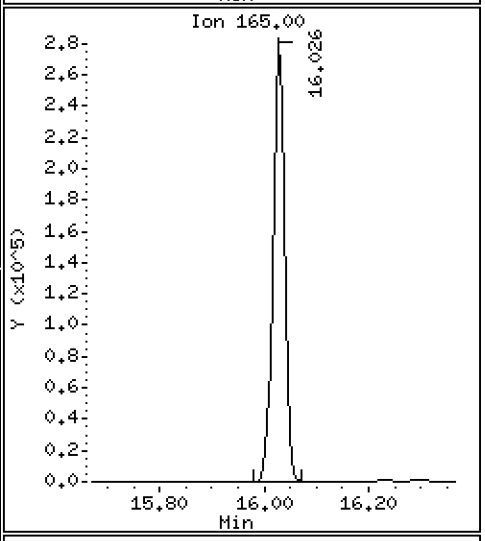
49 Fluorene

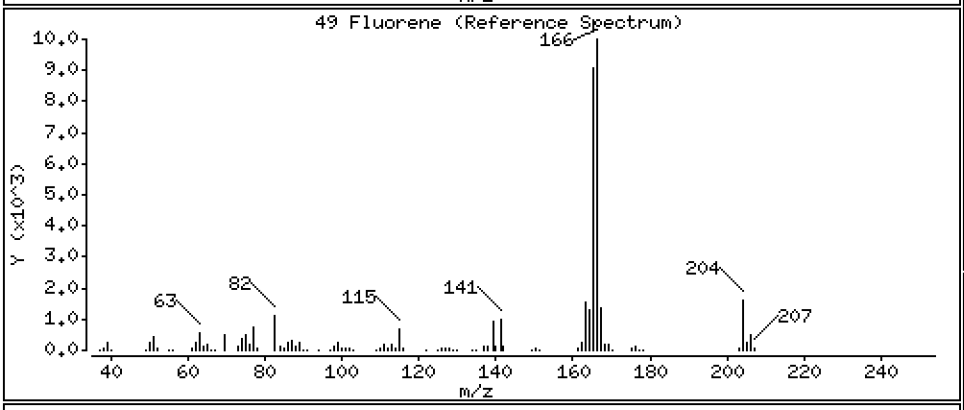
Concentration: 4.584 ug/mL

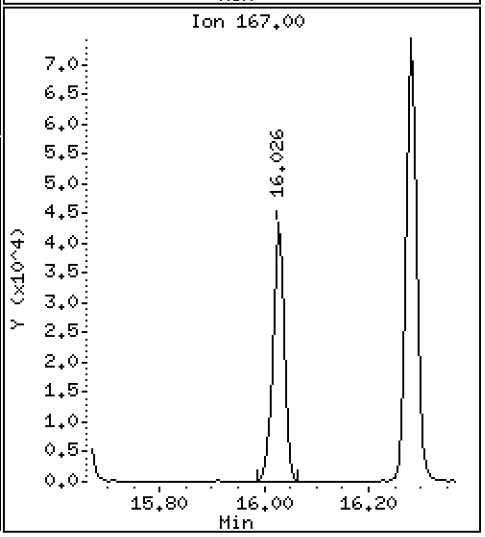


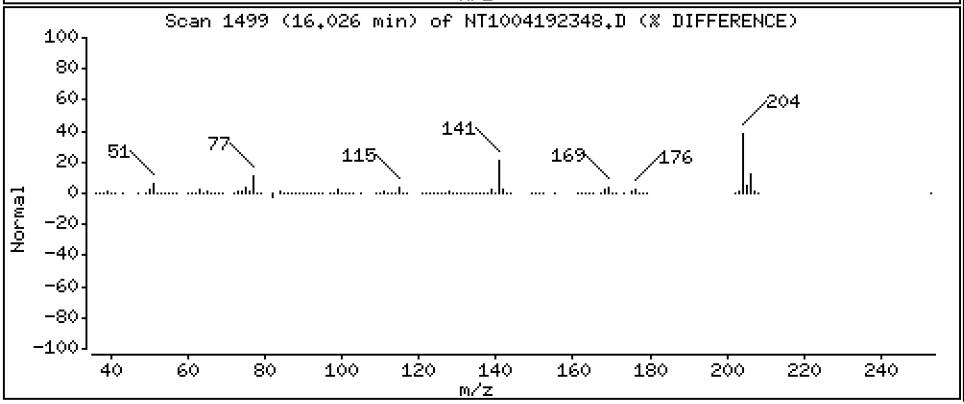












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

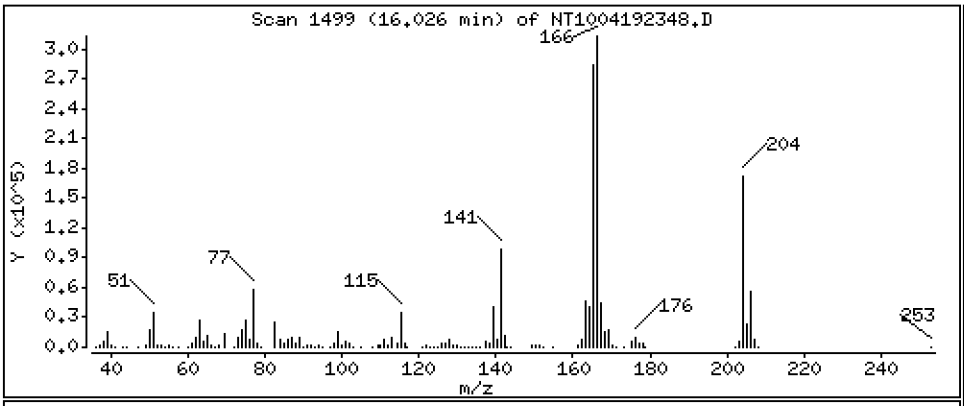
Operator: VTS

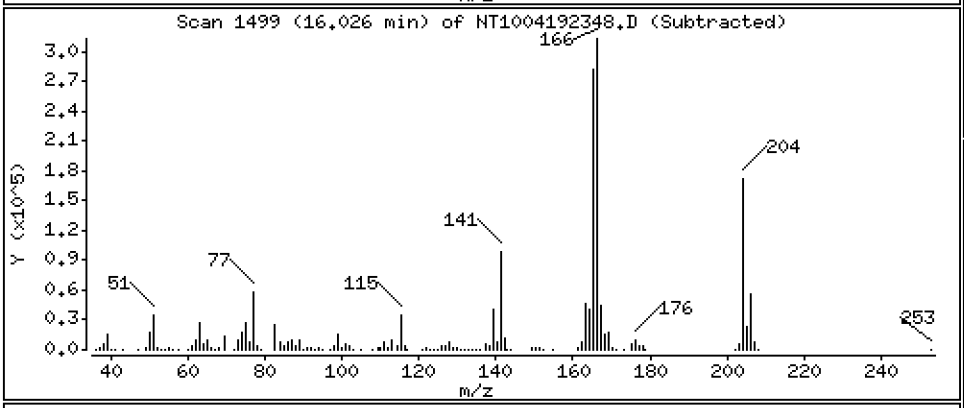
Column phase: ZB-5msi

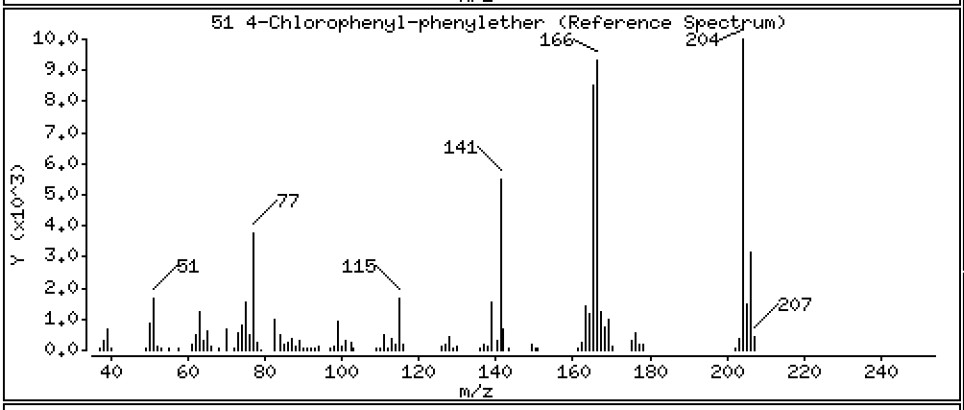
Column diameter: 0.25

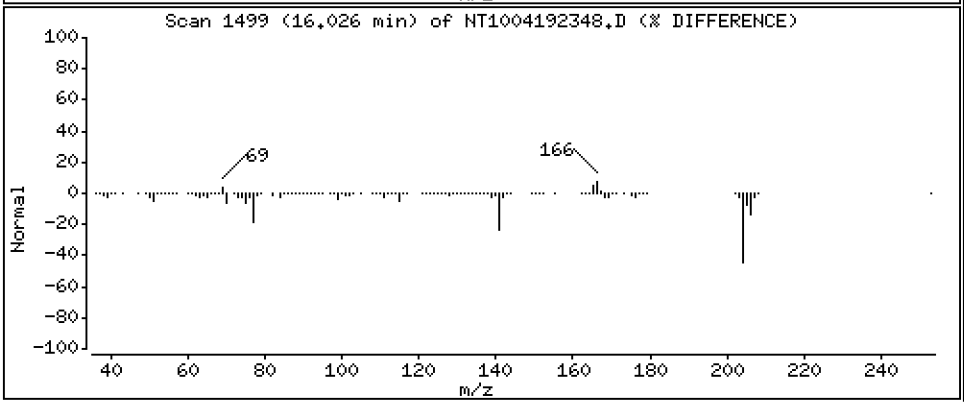
51 4-Chlorophenyl-phenylether

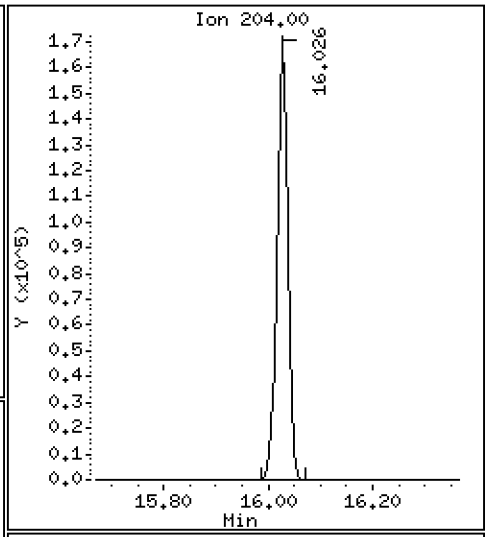
Concentration: 4.918 ug/mL

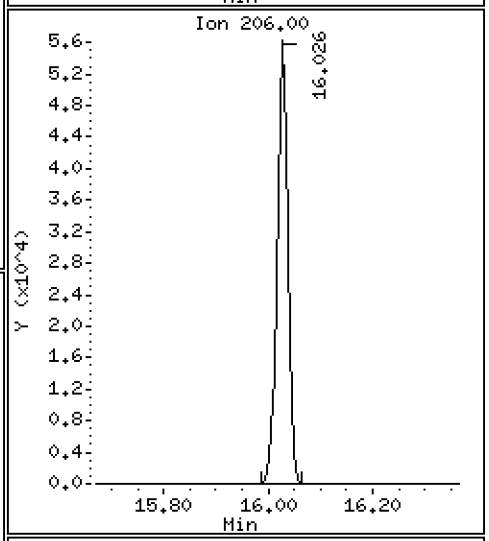


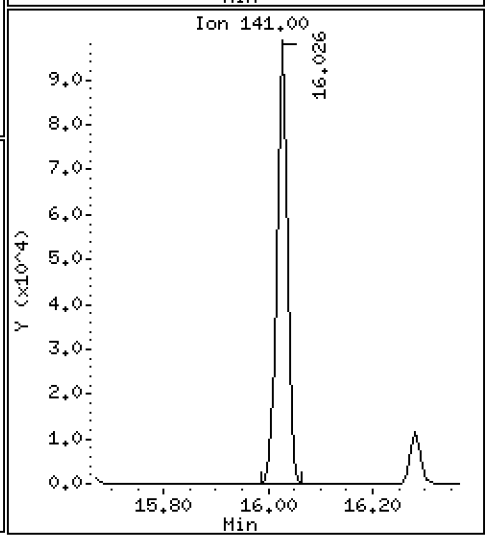












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

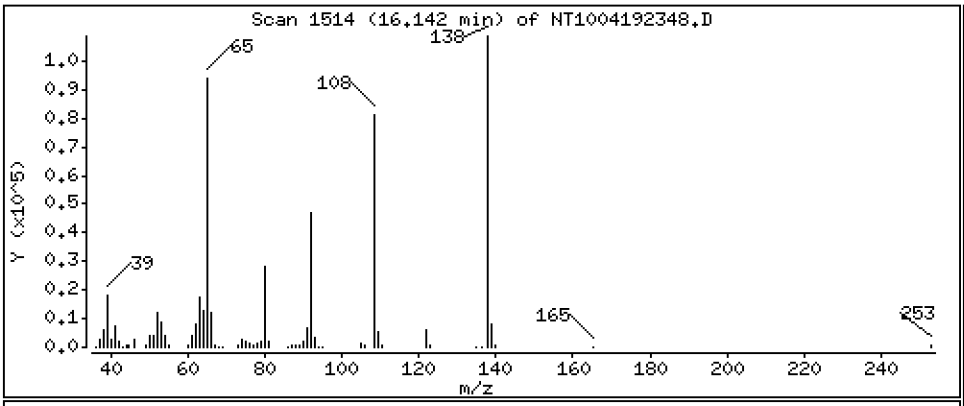
Operator: VTS

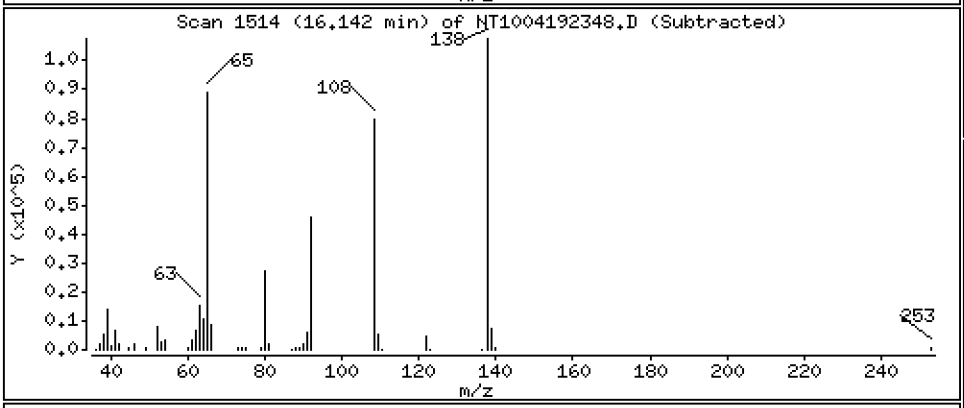
Column phase: ZB-5msi

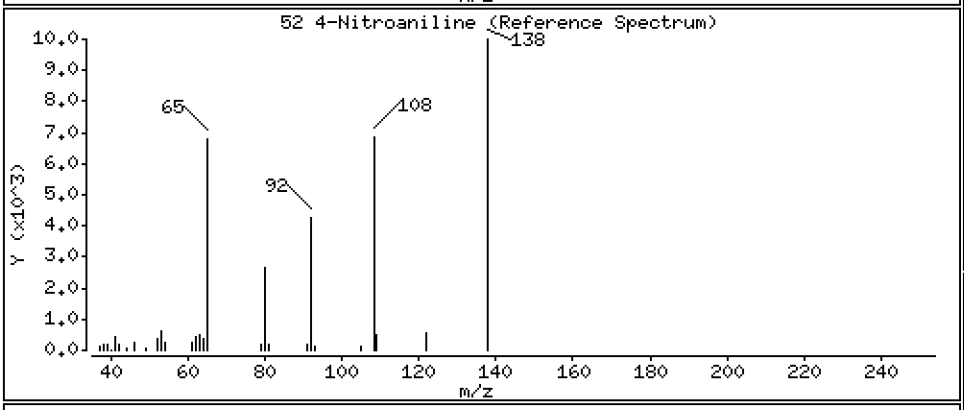
Column diameter: 0.25

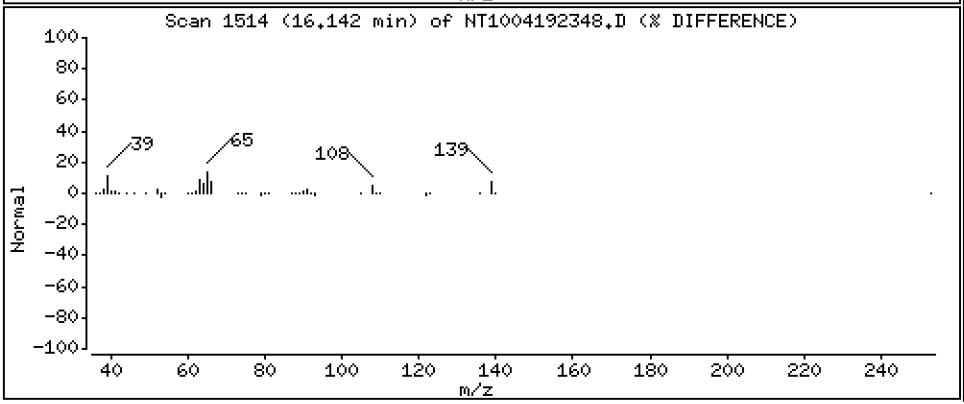
52 4-Nitroaniline

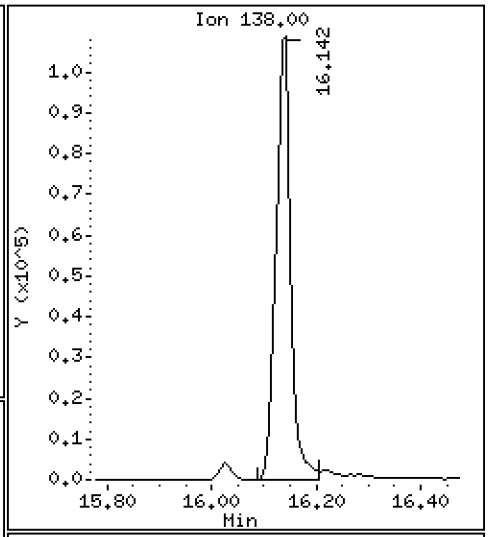
Concentration: 9.850 ug/mL

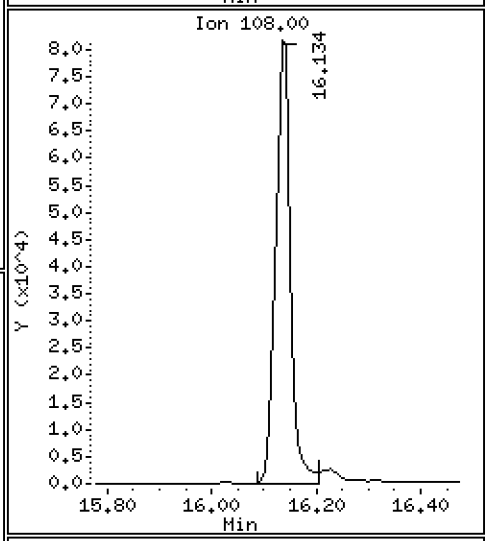


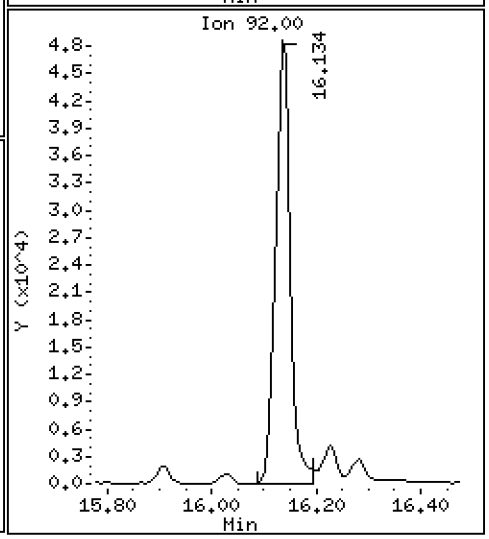












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

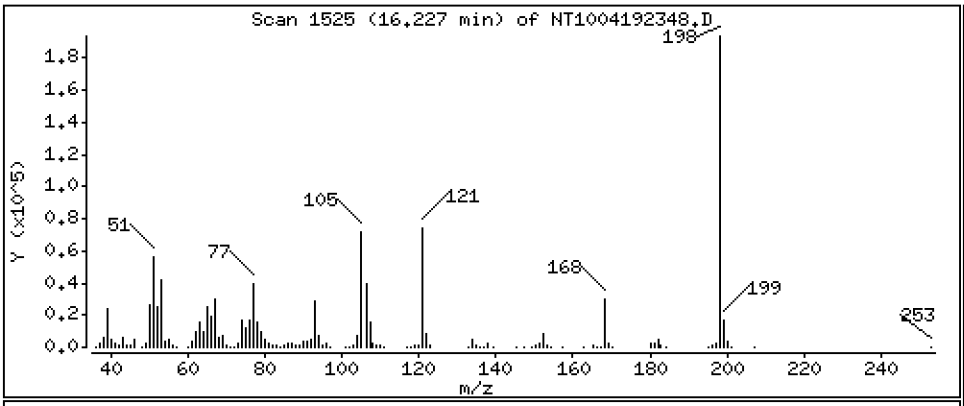
Operator: VTS

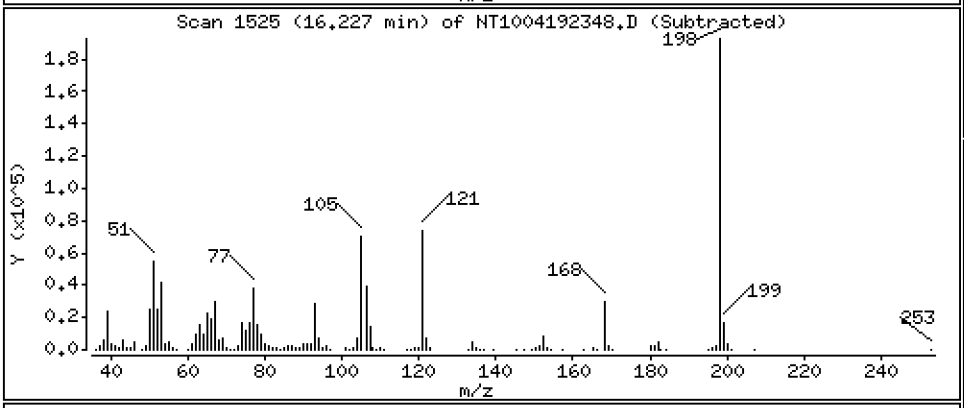
Column phase: ZB-5msi

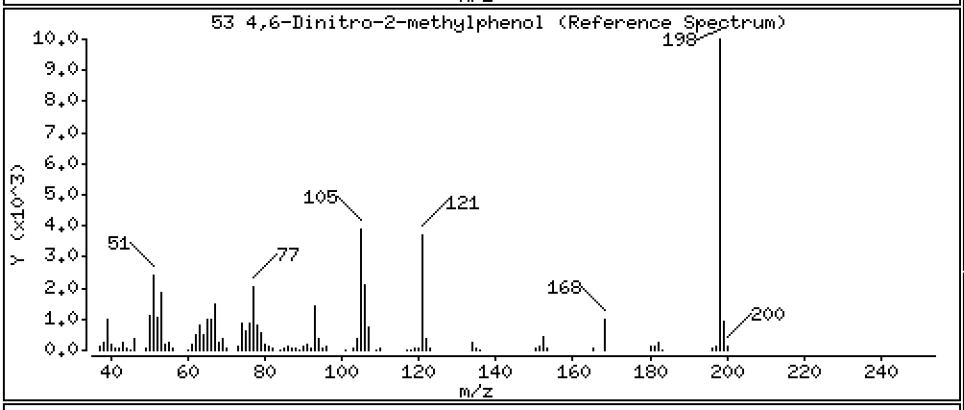
Column diameter: 0.25

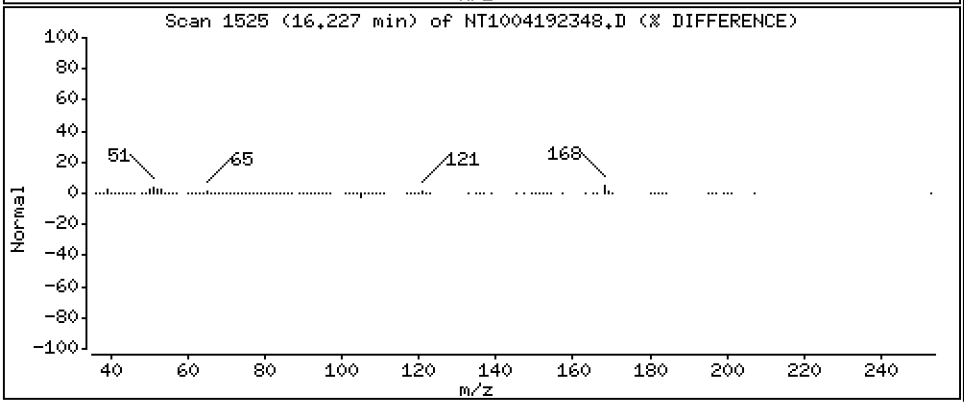
53 4,6-Dinitro-2-methylphenol

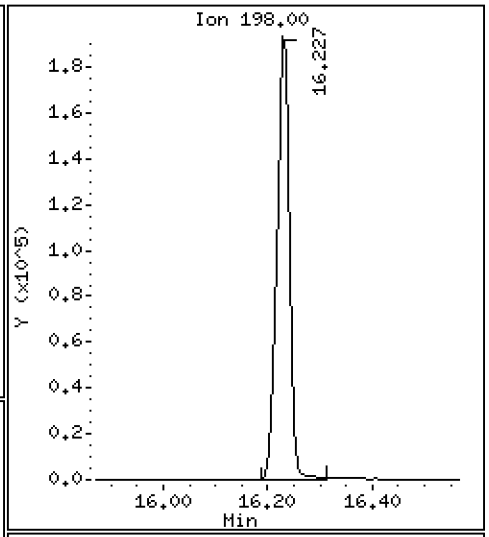
Concentration: 20.07 ug/mL

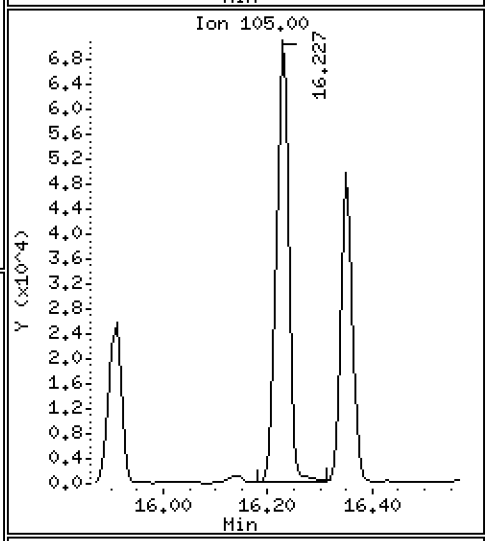


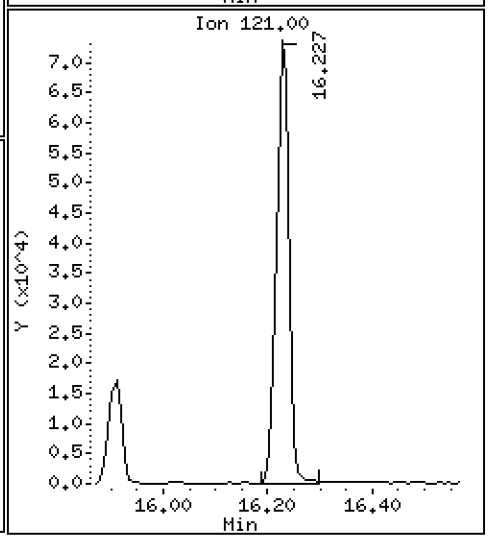












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

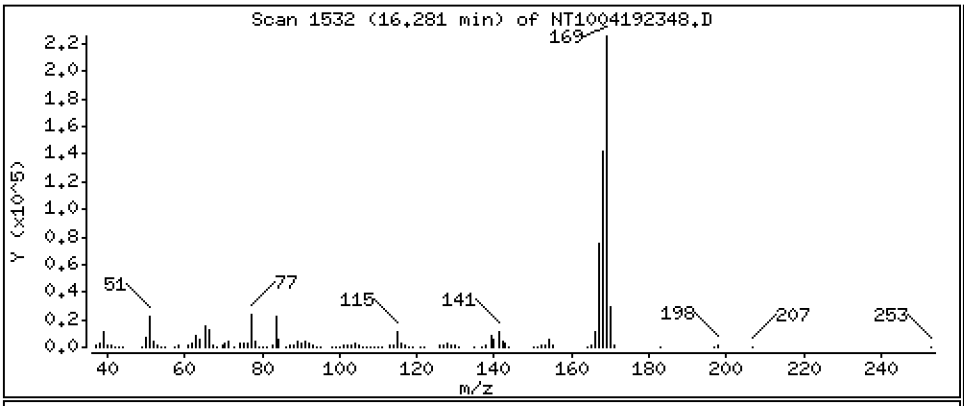
Operator: VTS

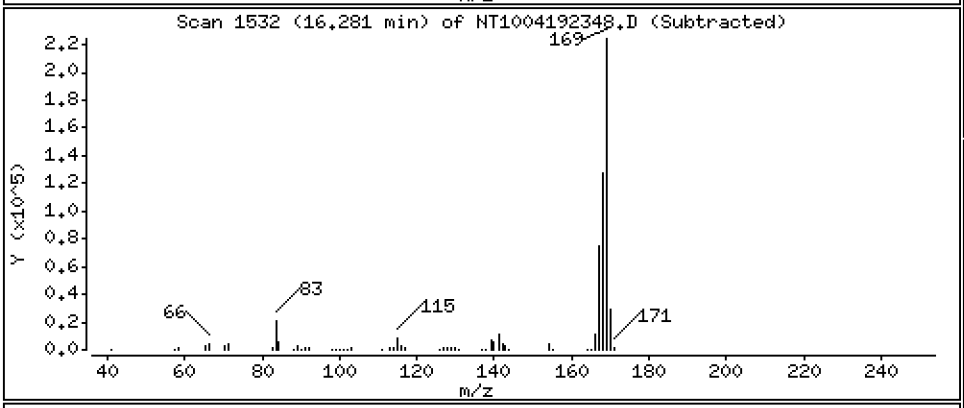
Column phase: ZB-5msi

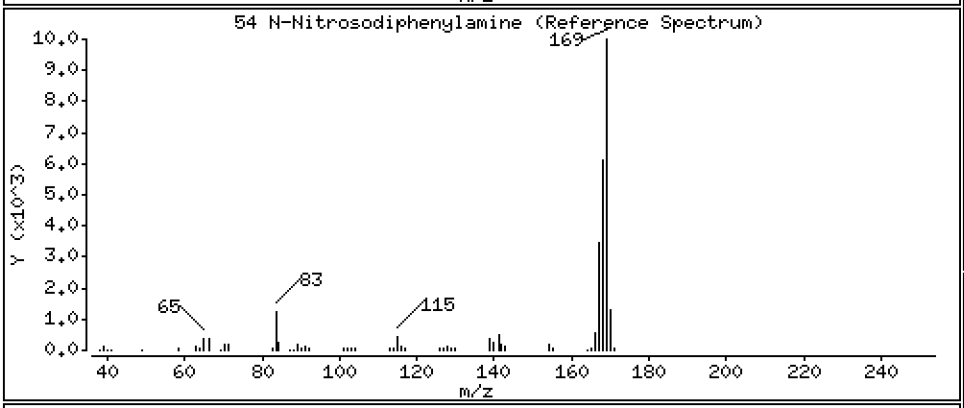
Column diameter: 0.25

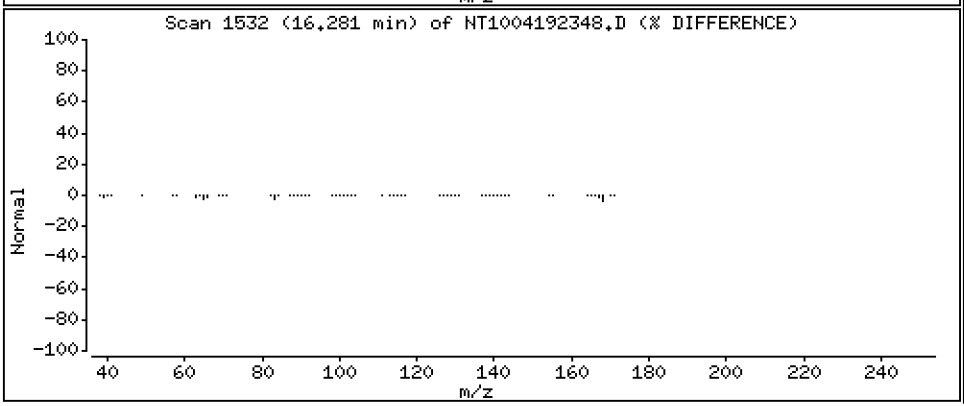
54 N-Nitrosodiphenylamine

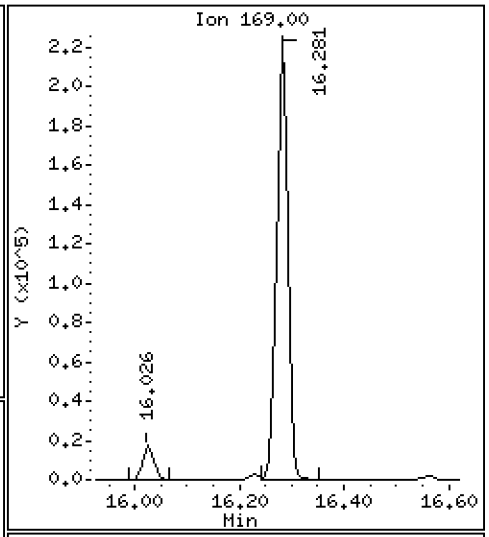
Concentration: 4.701 ug/mL

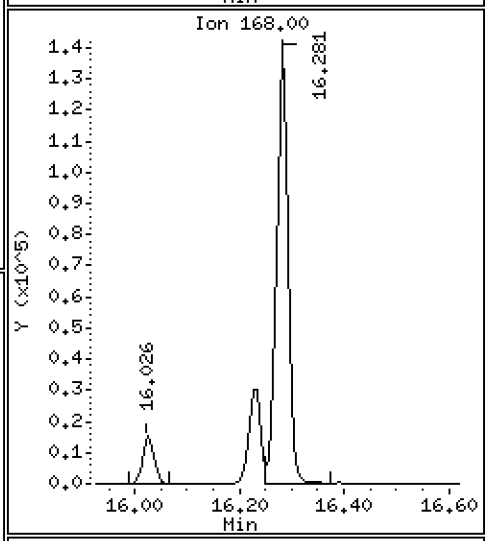


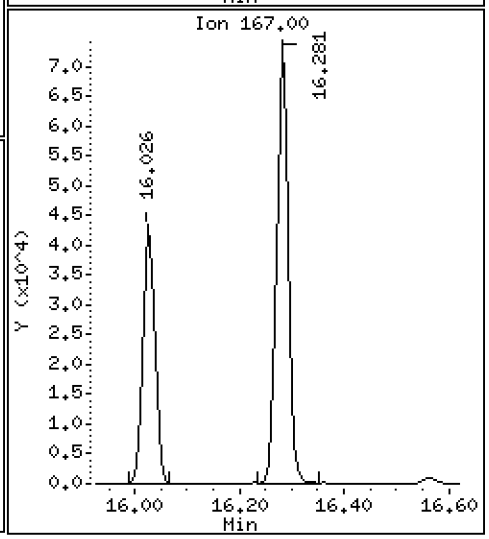












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

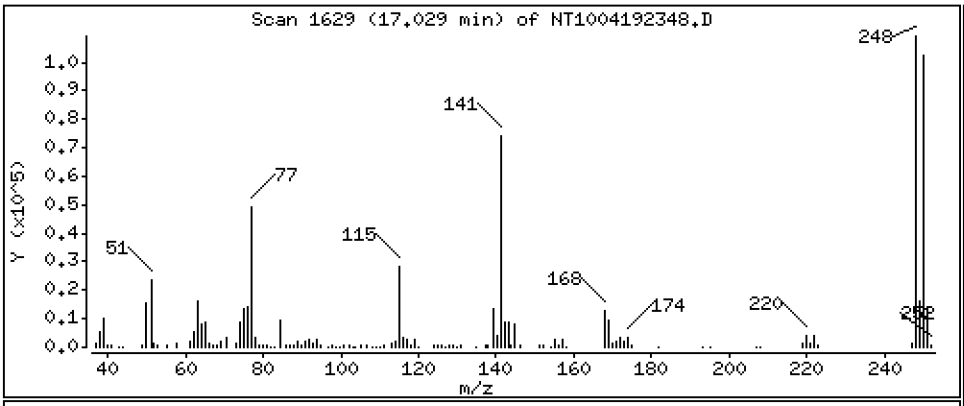
Operator: VTS

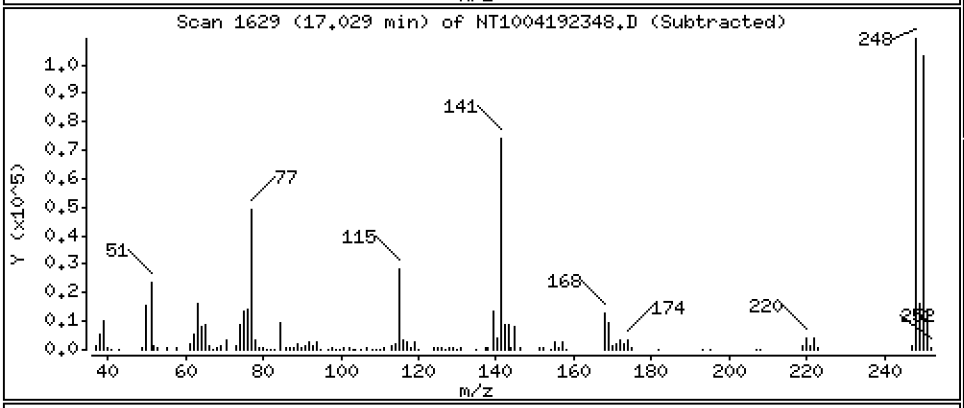
Column phase: ZB-5msi

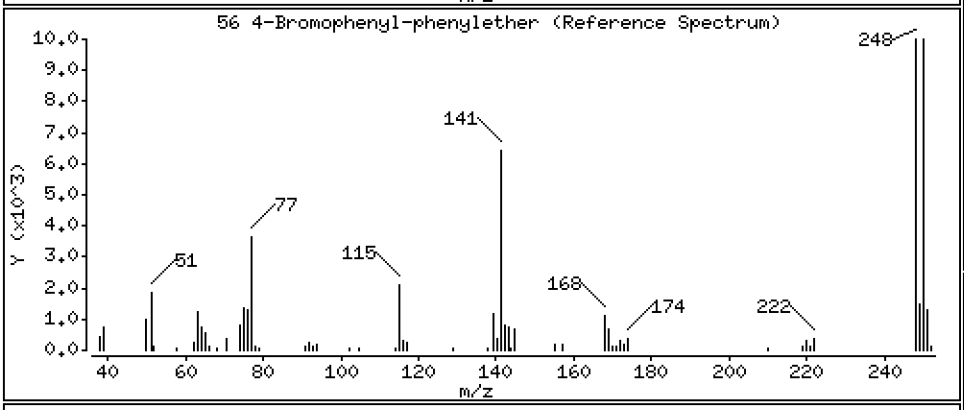
Column diameter: 0.25

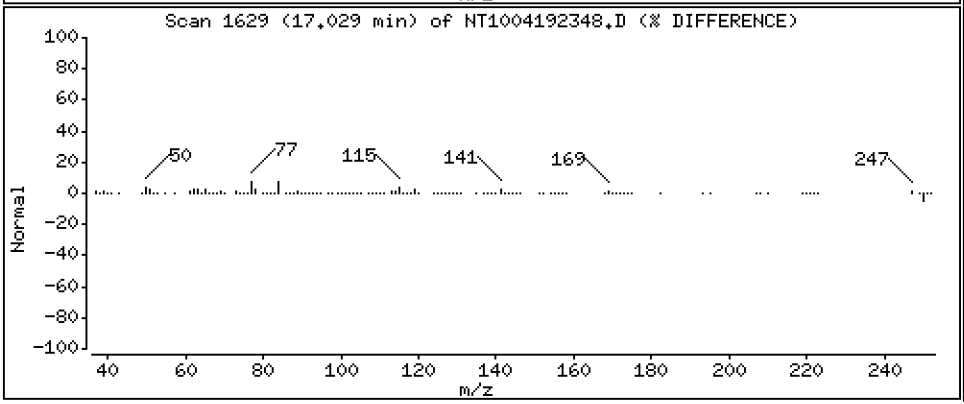
56 4-Bromophenyl-phenylether

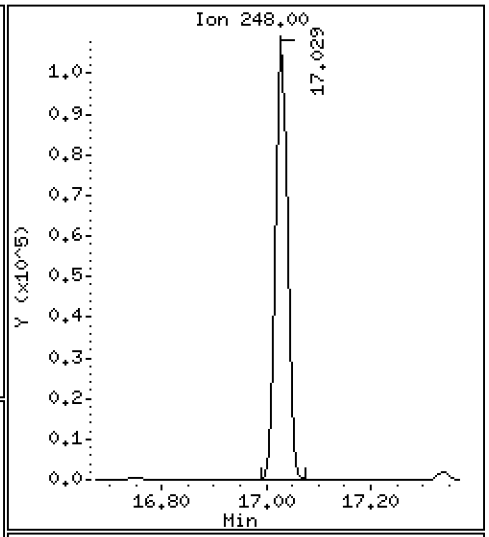
Concentration: 5.586 ug/mL

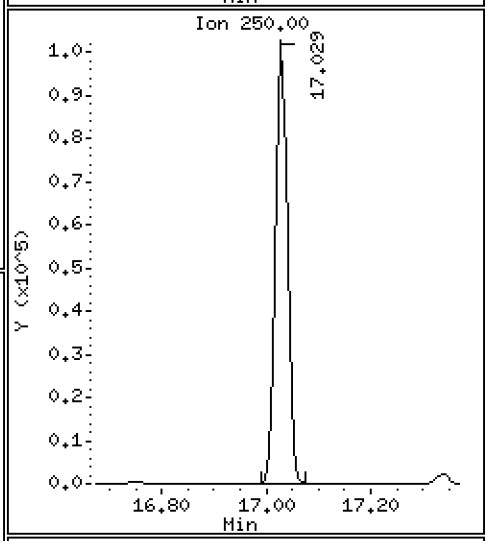


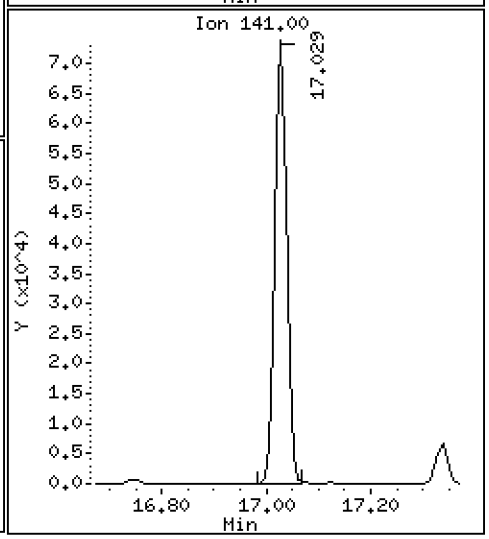












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

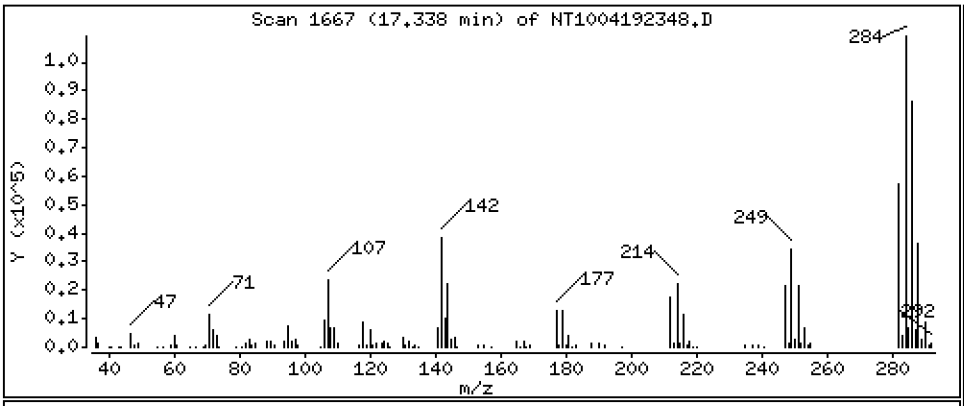
Operator: VTS

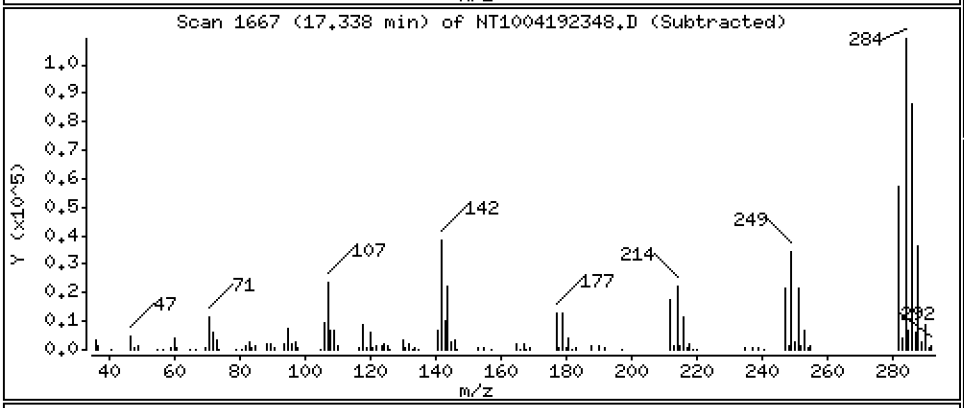
Column phase: ZB-5msi

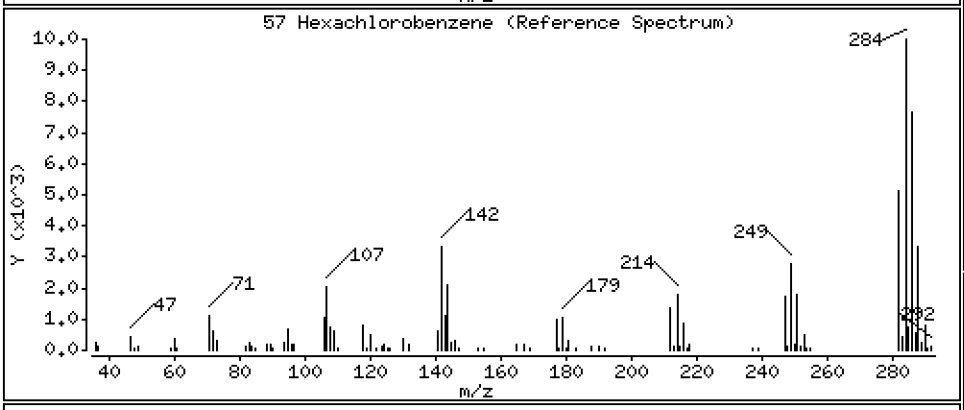
Column diameter: 0.25

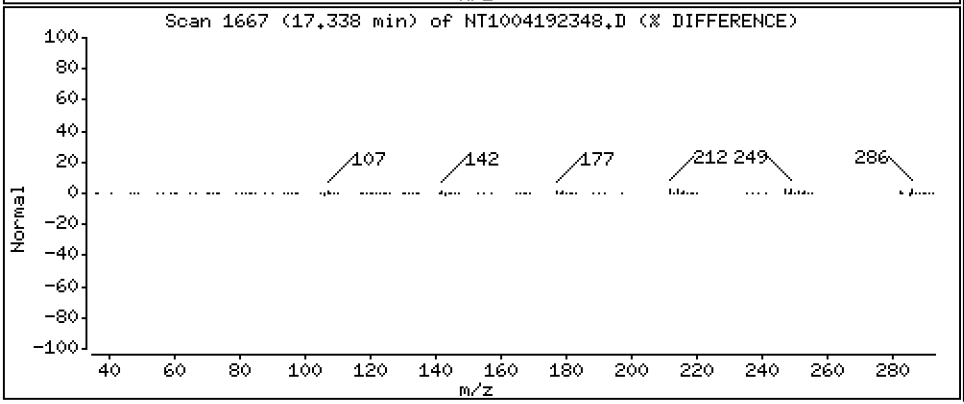
57 Hexachlorobenzene

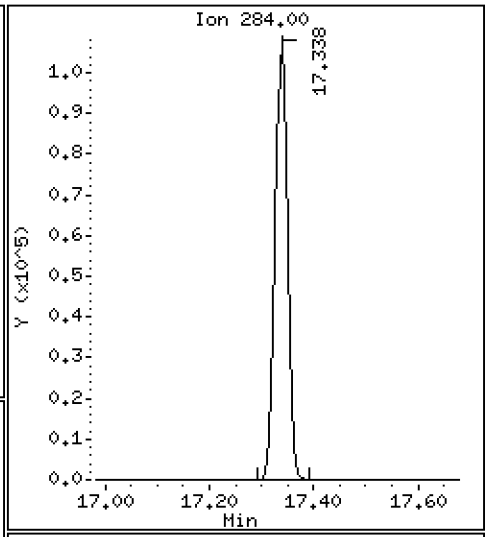
Concentration: 5.623 ug/mL

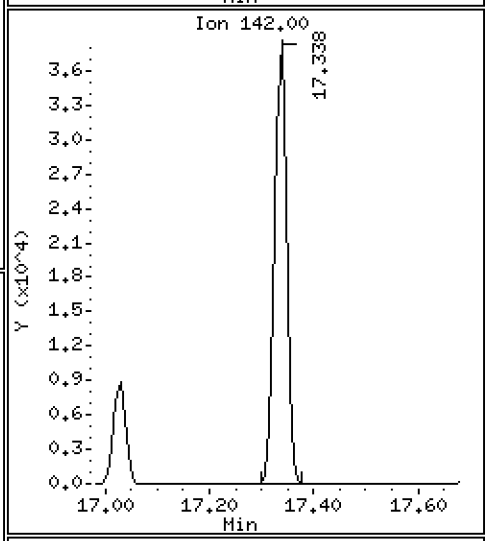


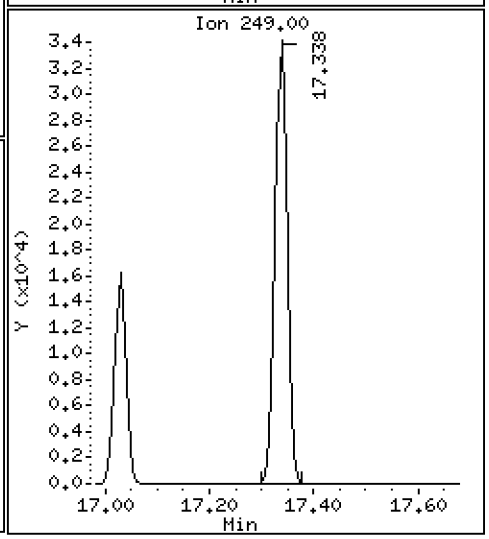












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

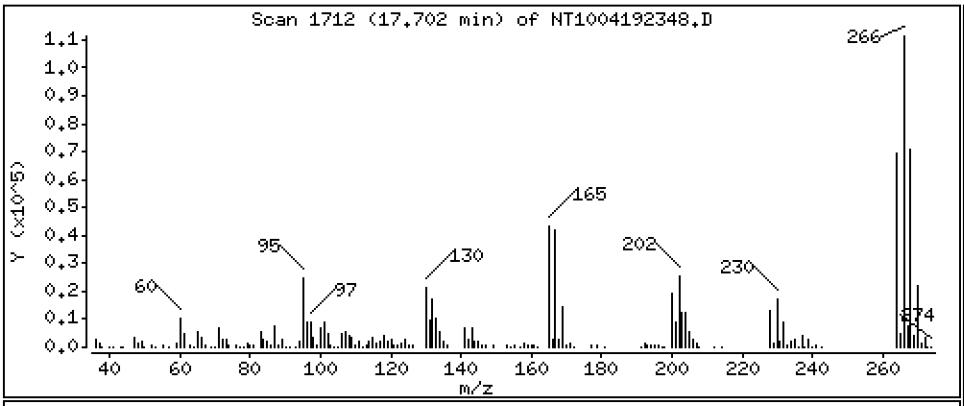
Operator: VTS

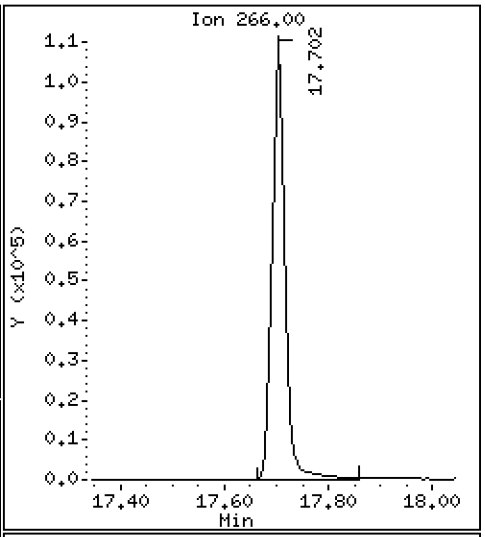
Column phase: ZB-5msi

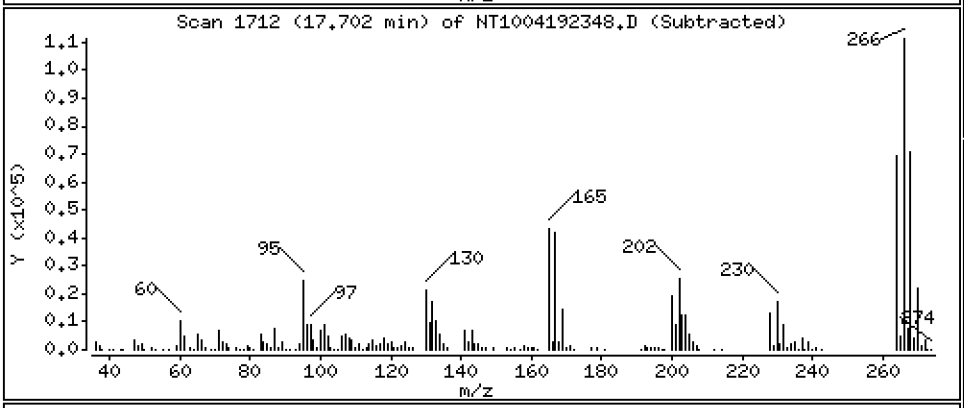
Column diameter: 0.25

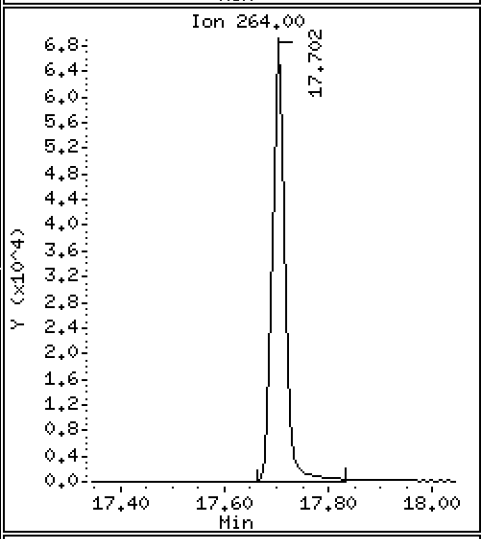
58 Pentachlorophenol

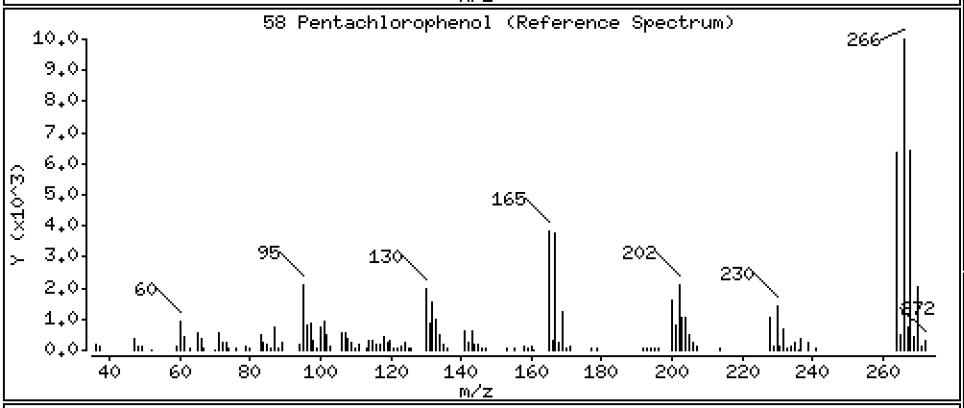
Concentration: 10.17 ug/mL

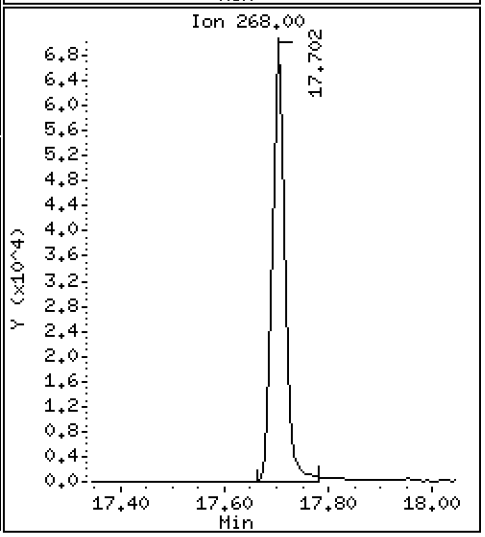


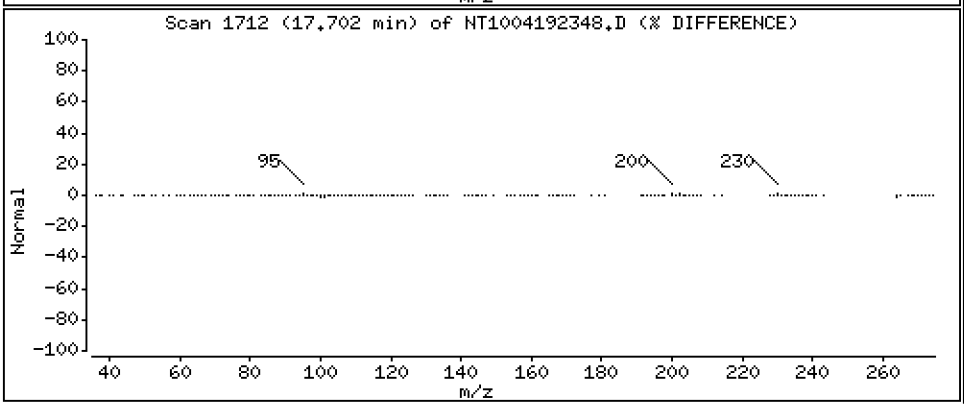












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192348.D

Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

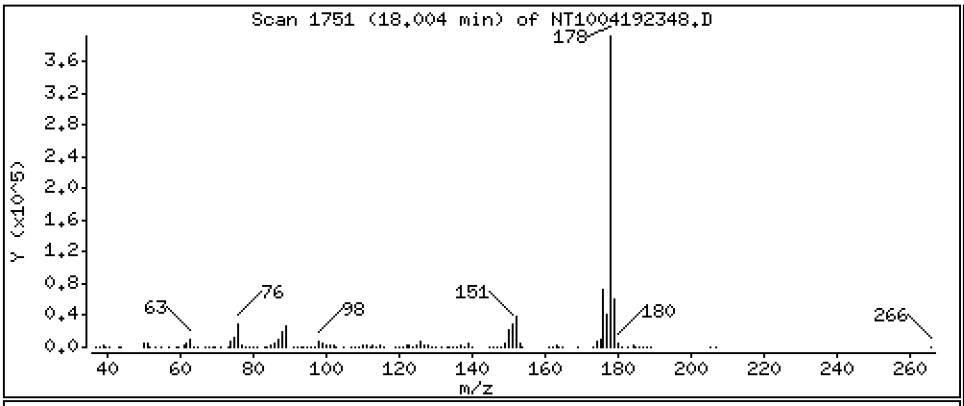
Operator: VTS

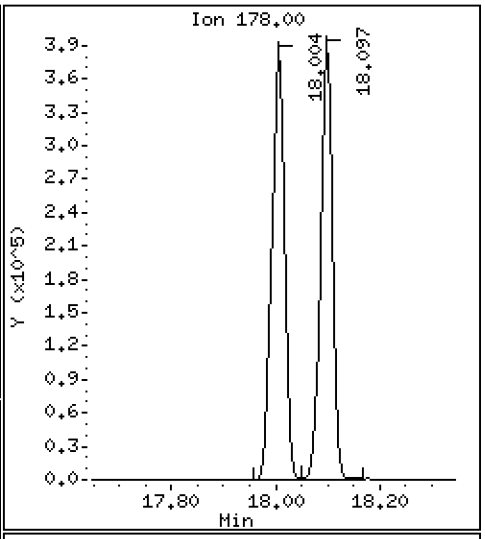
Column phase: ZB-5msi

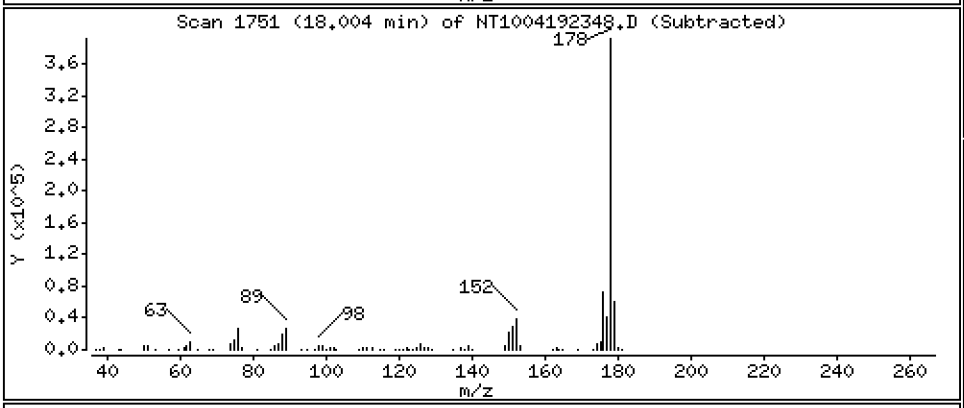
Column diameter: 0.25

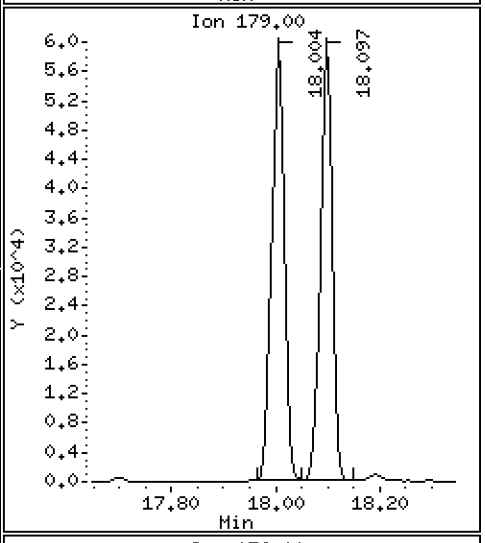
60 Phenanthrene

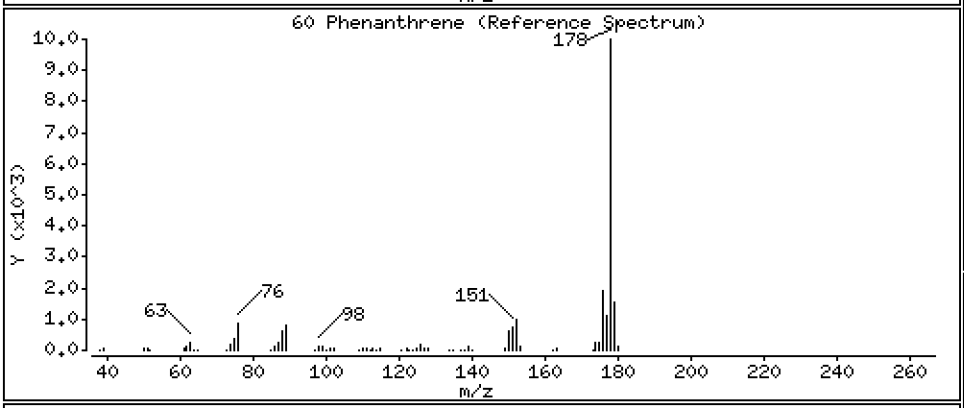
Concentration: 4.592 ug/mL

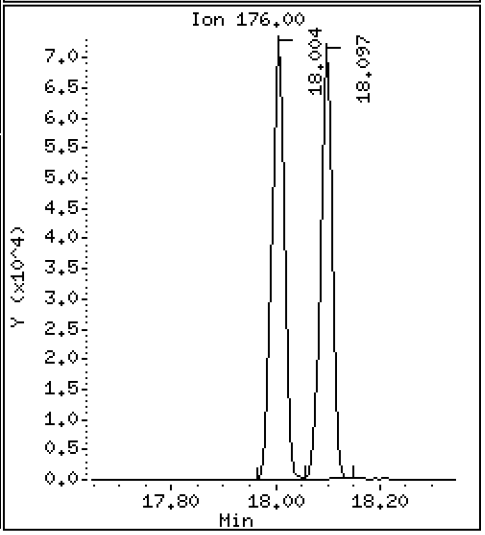


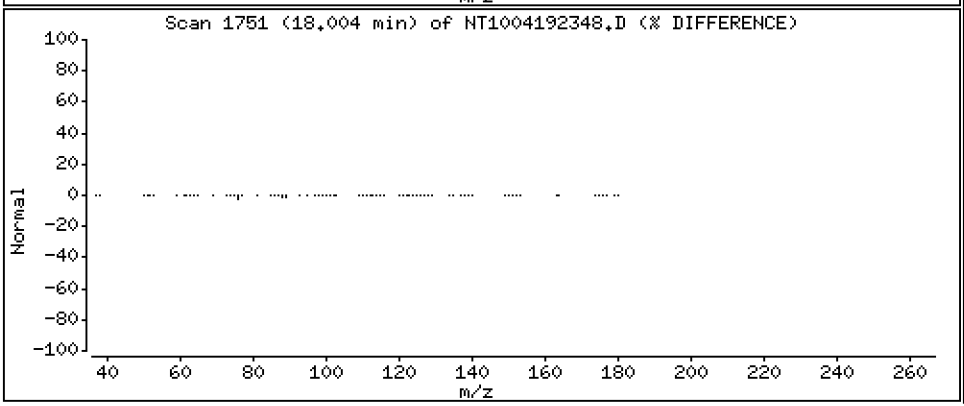












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

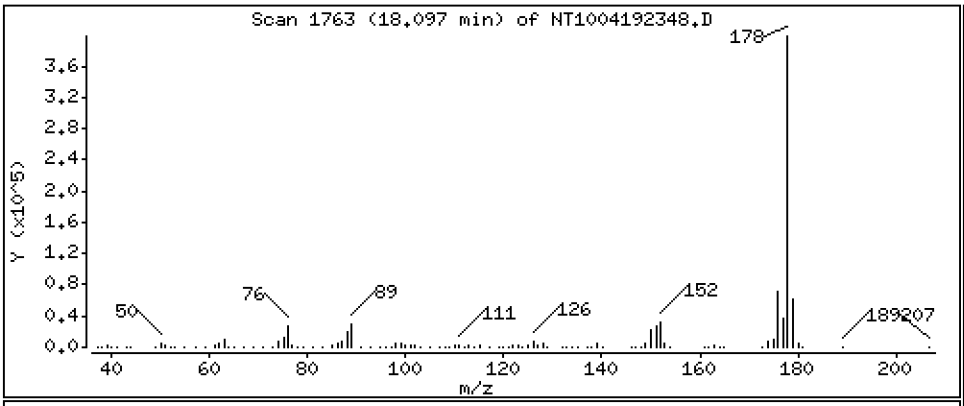
Operator: VTS

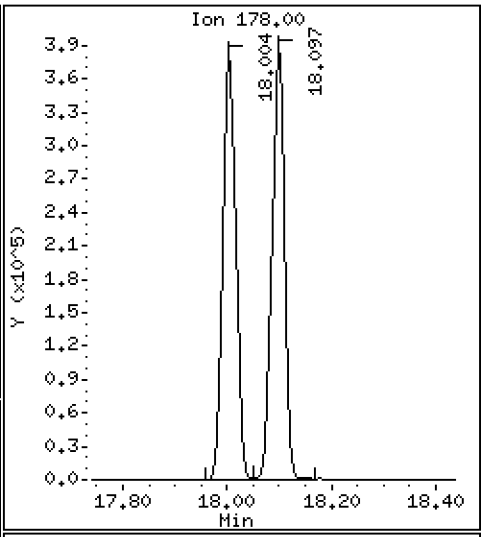
Column phase: ZB-5msi

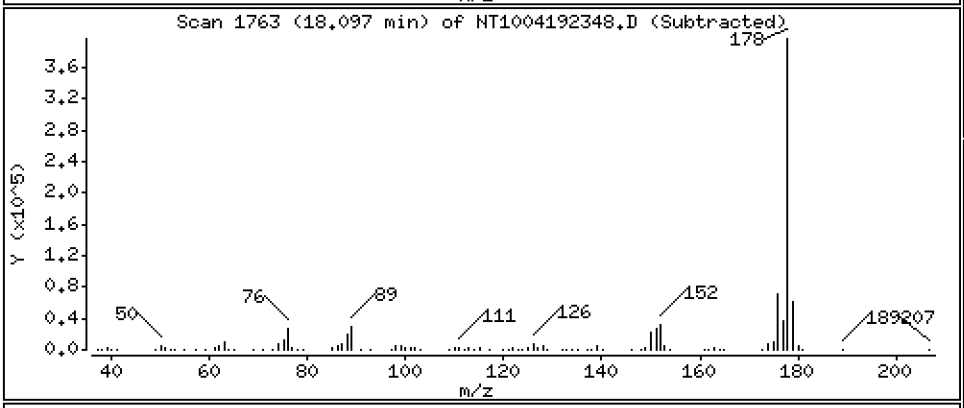
Column diameter: 0.25

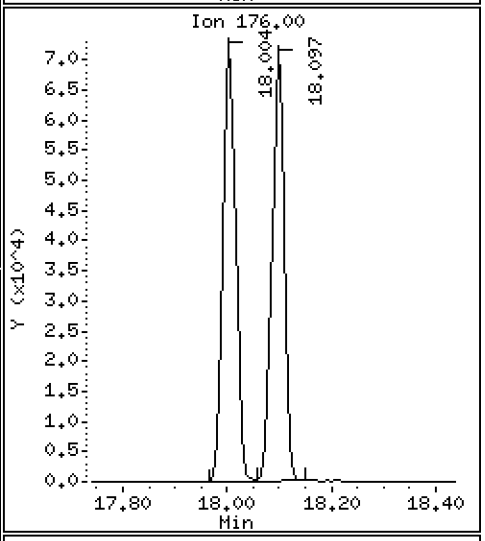
61 Anthracene

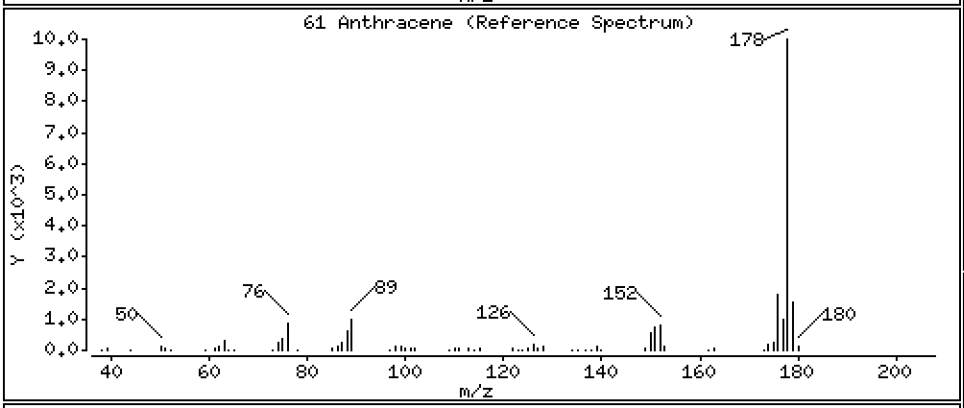
Concentration: 4.708 ug/mL

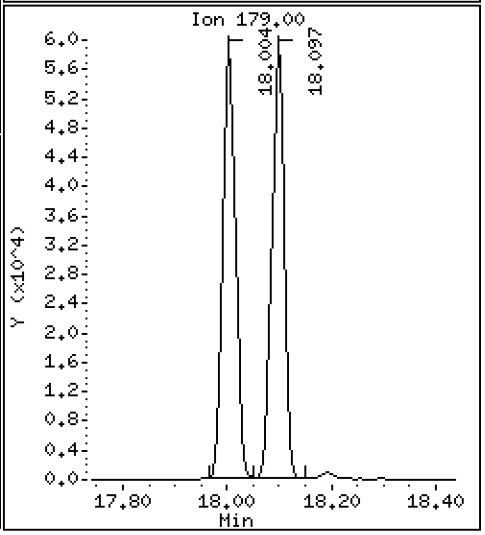


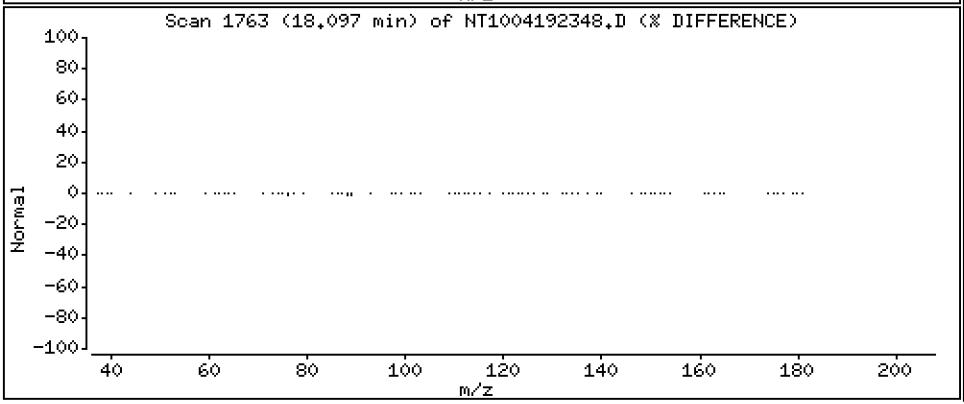












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

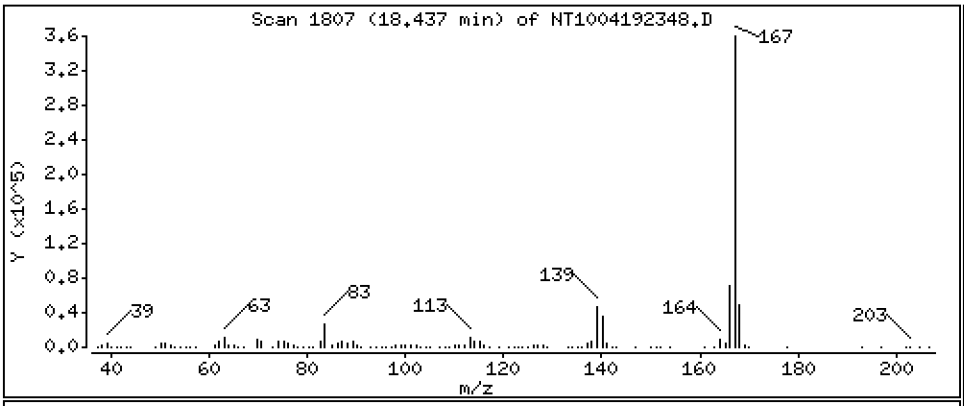
Operator: VTS

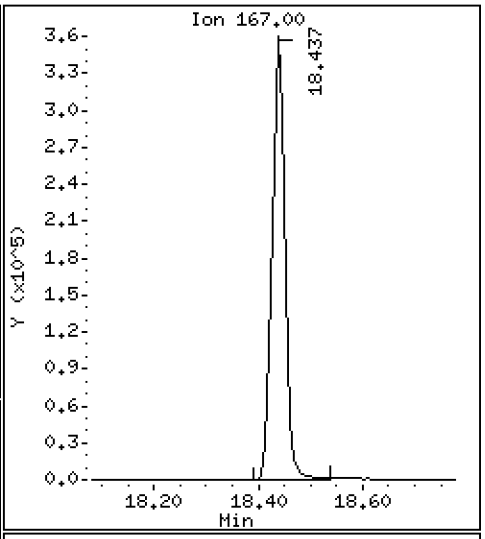
Column phase: ZB-5msi

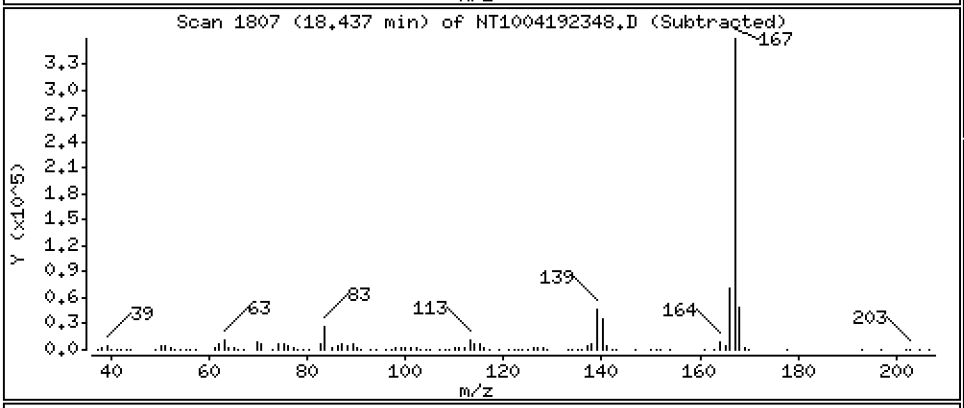
Column diameter: 0.25

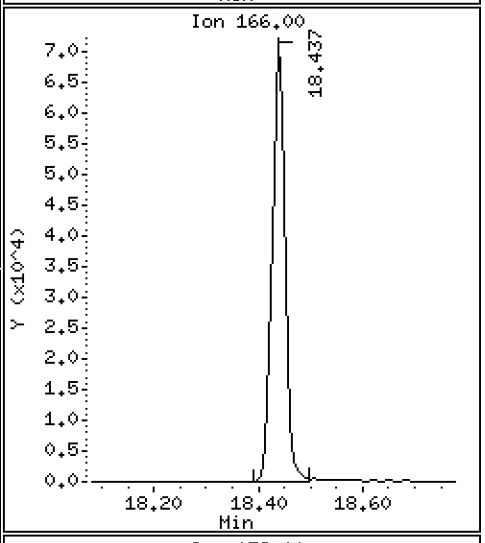
62 Carbazole

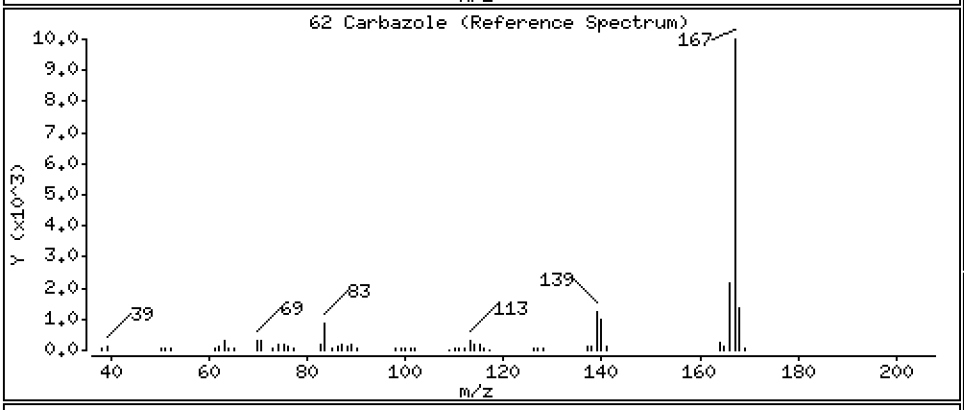
Concentration: 5.026 ug/mL

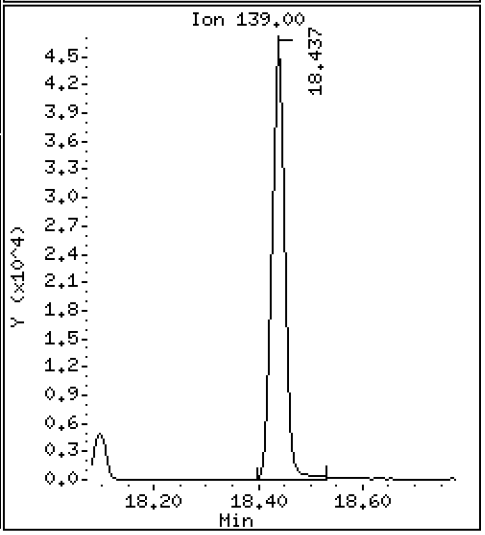


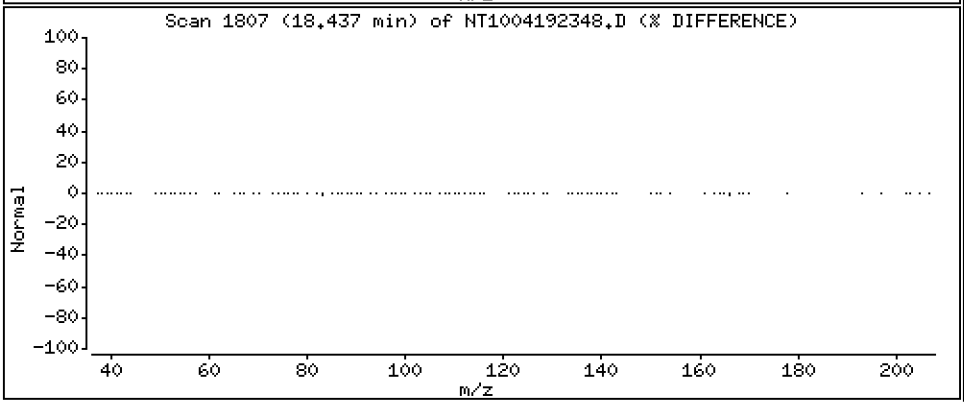












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192348.D

Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

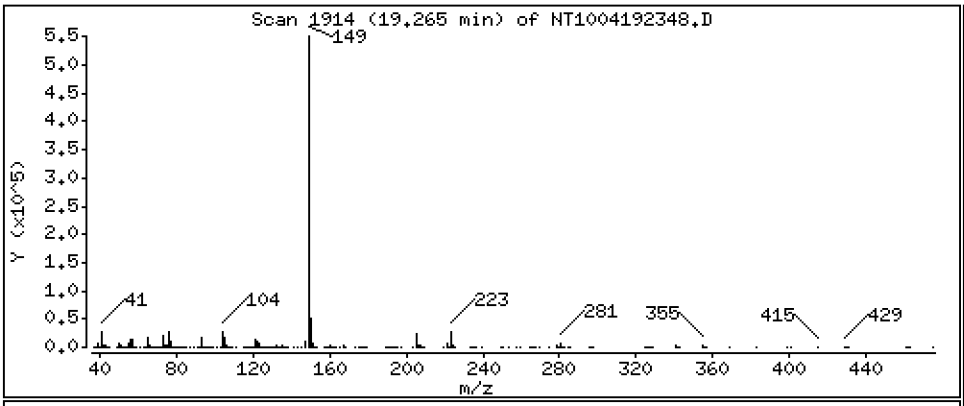
Operator: VTS

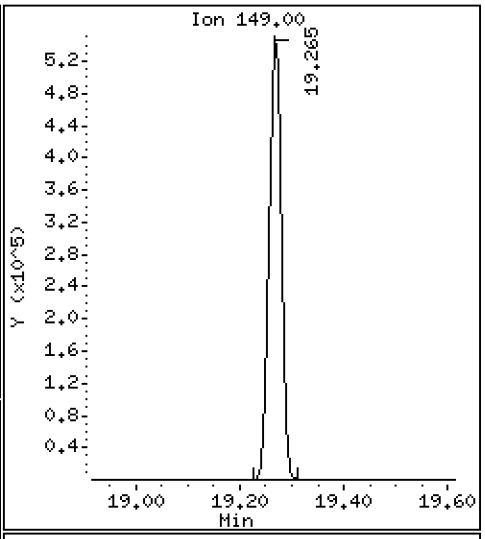
Column phase: ZB-5msi

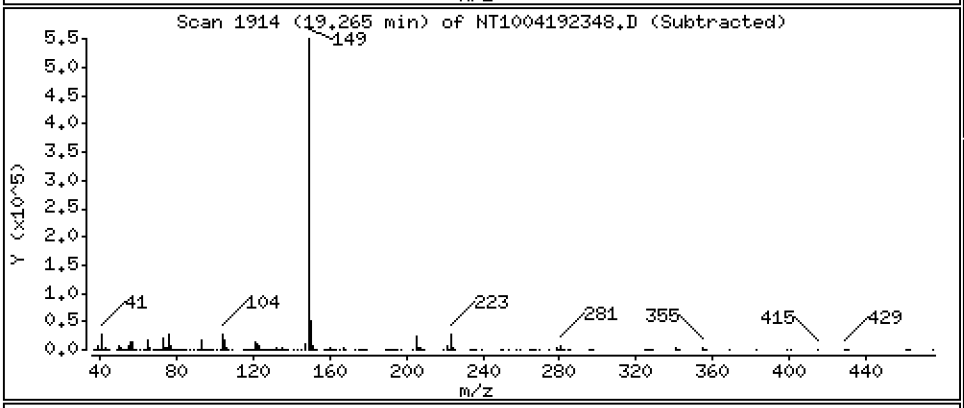
Column diameter: 0.25

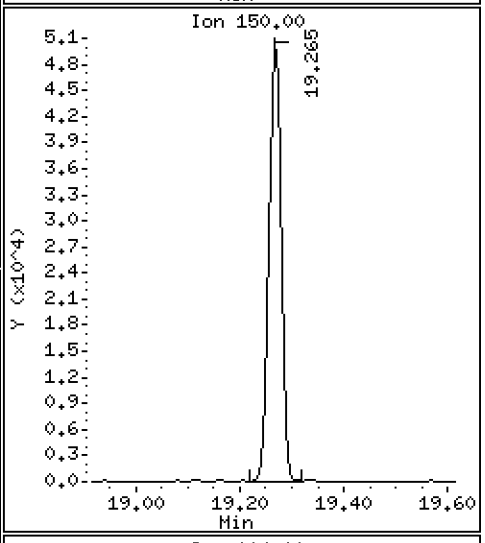
63 Di-n-butylphthalate

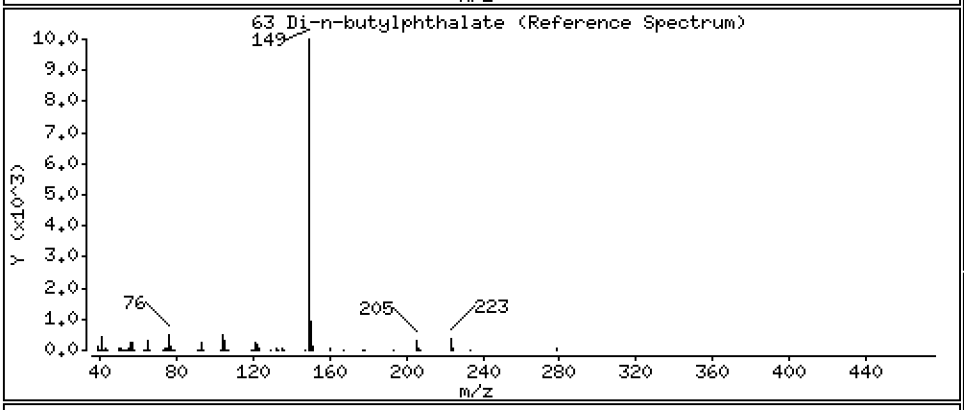
Concentration: 5.298 ug/mL

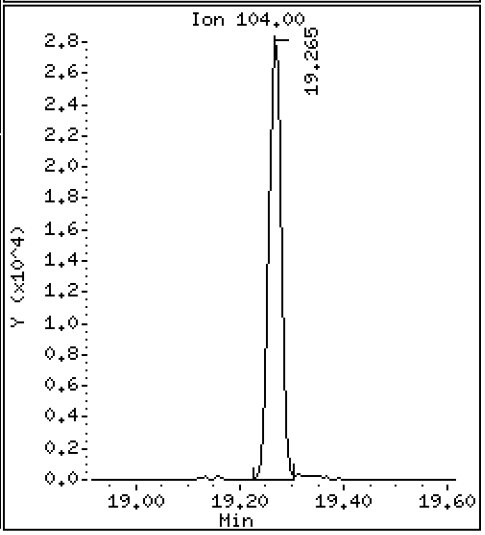


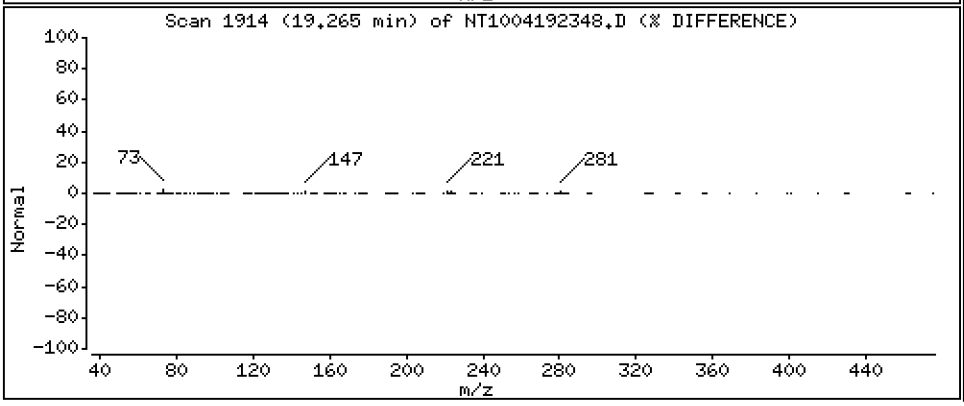












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

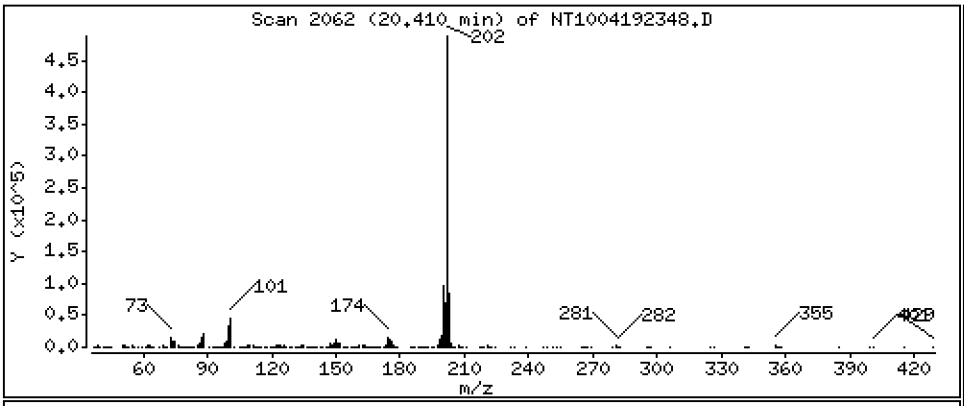
Operator: VTS

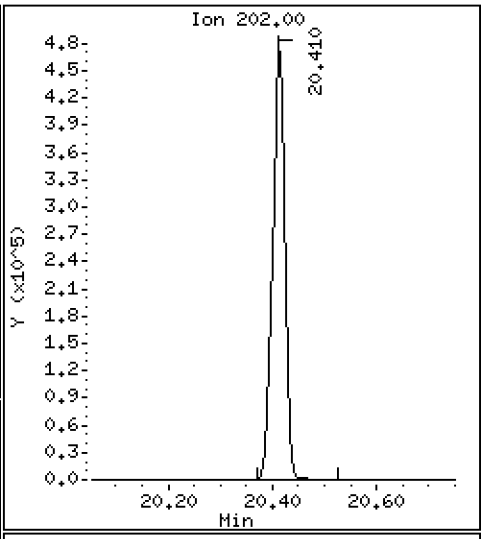
Column phase: ZB-5msi

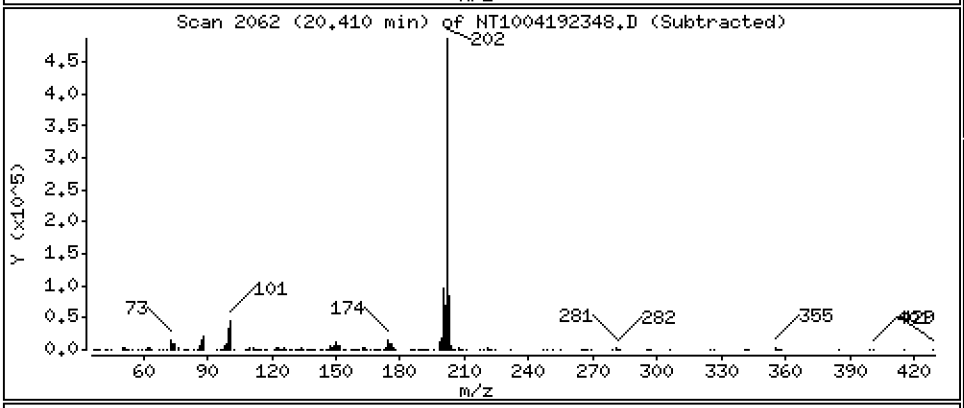
Column diameter: 0.25

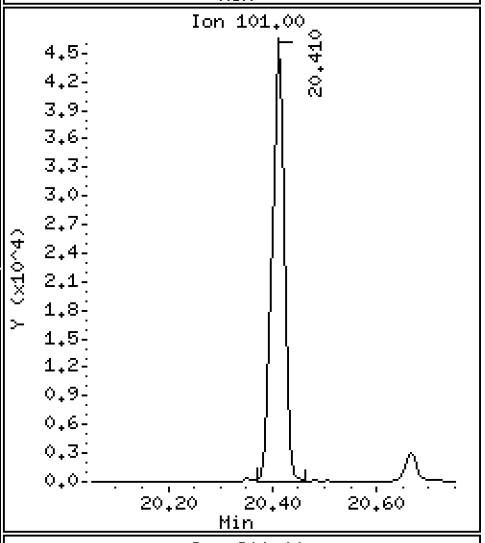
64 Fluoranthene

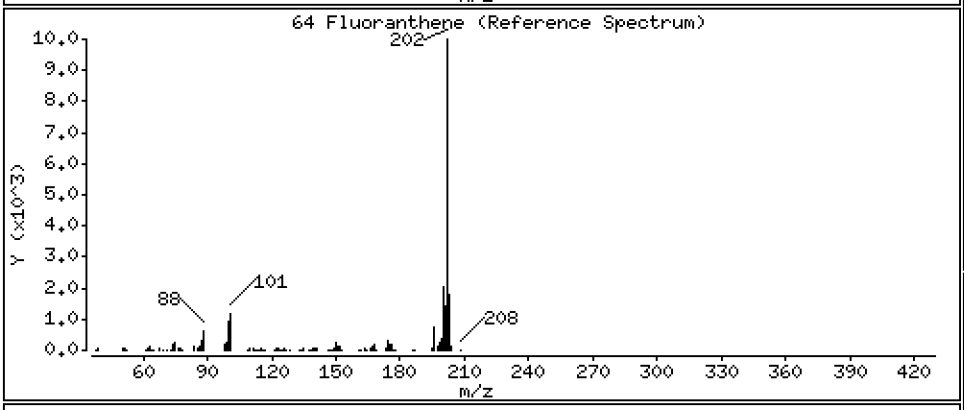
Concentration: 3.815 ug/mL

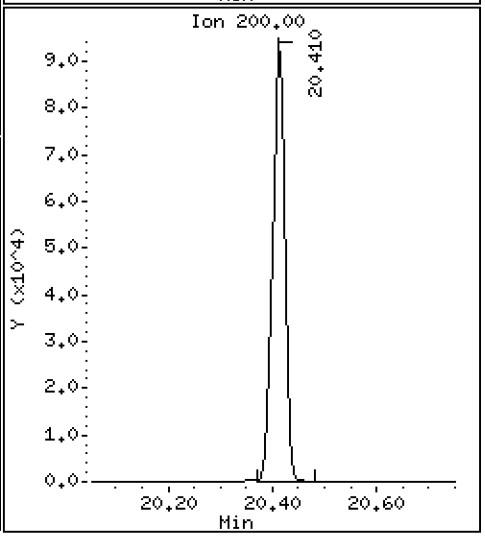


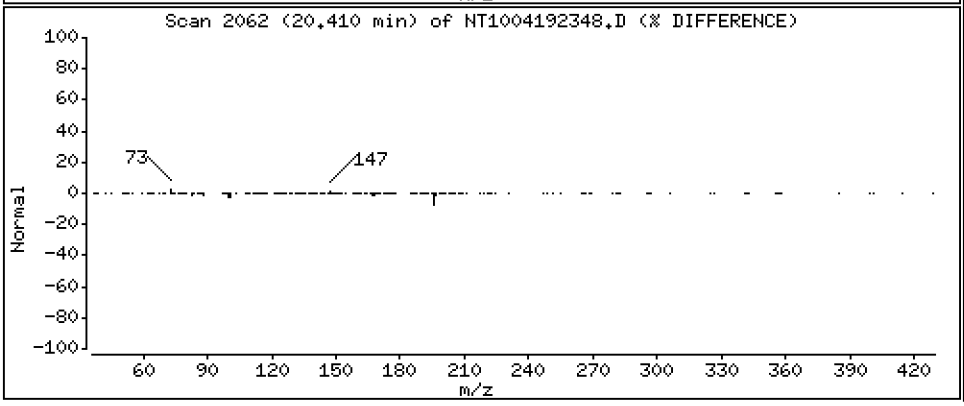












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

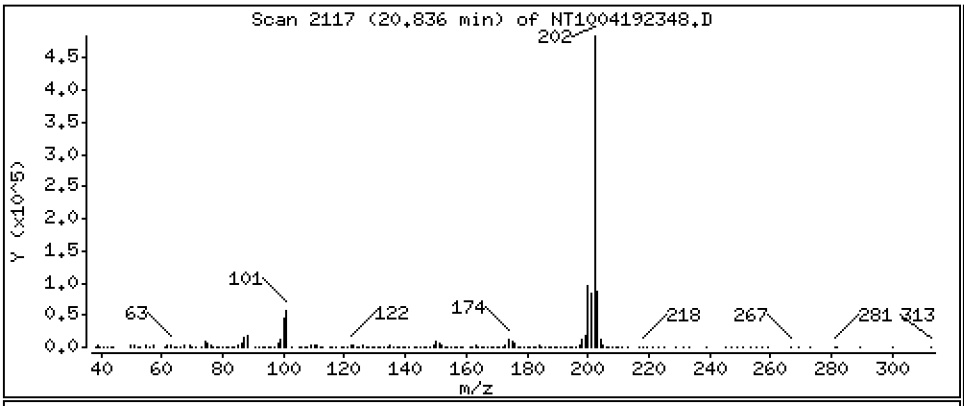
Operator: VTS

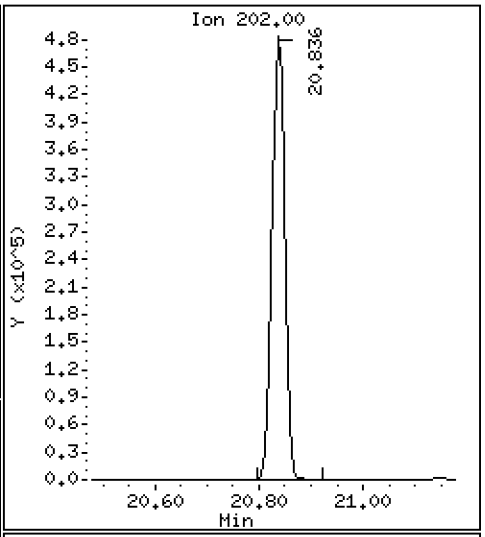
Column phase: ZB-5msi

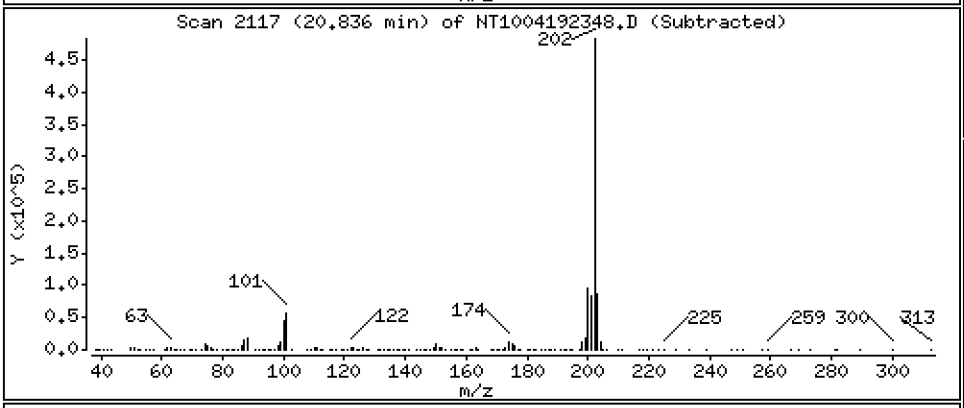
Column diameter: 0.25

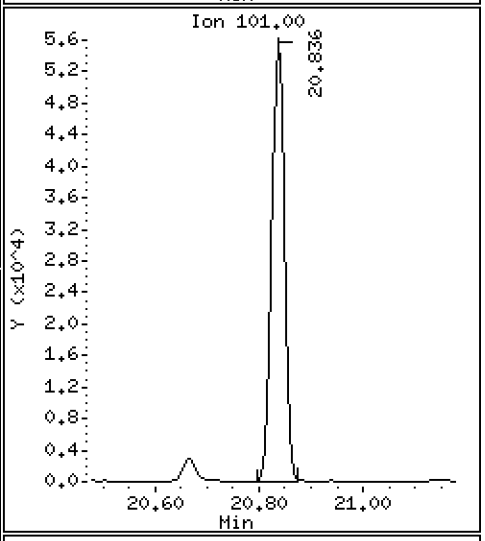
65 Pyrene

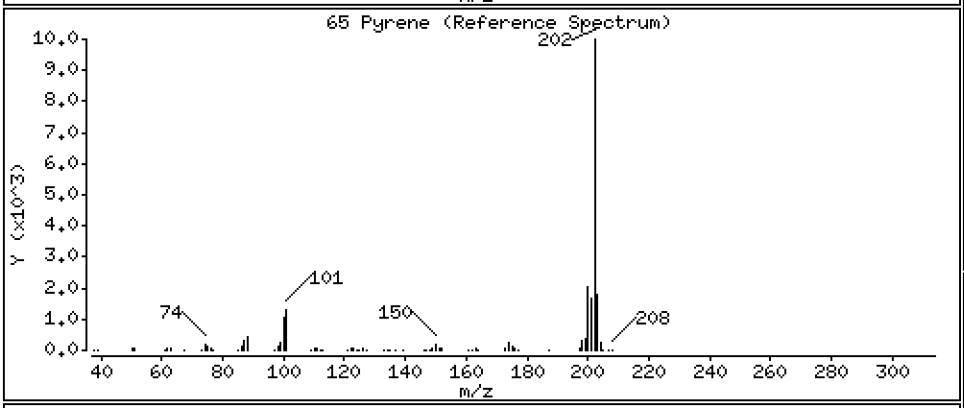
Concentration: 3.779 ug/mL

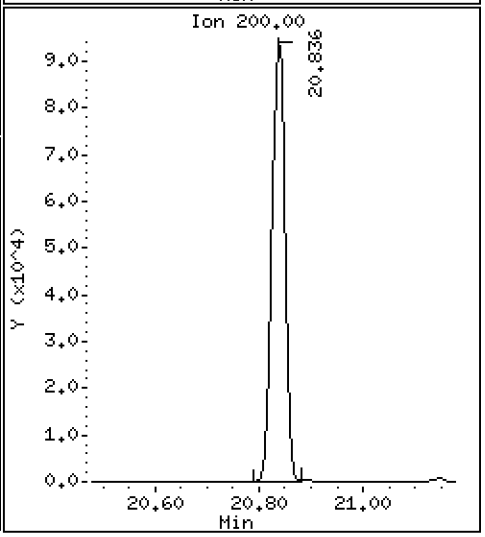


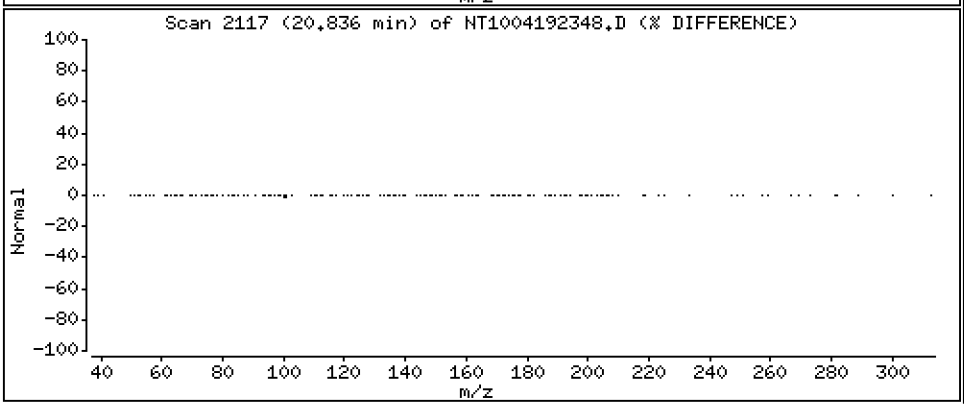












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

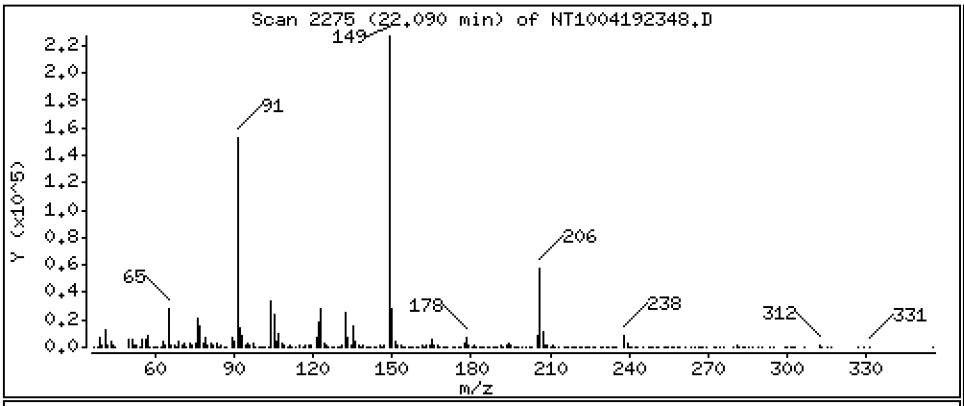
Operator: VTS

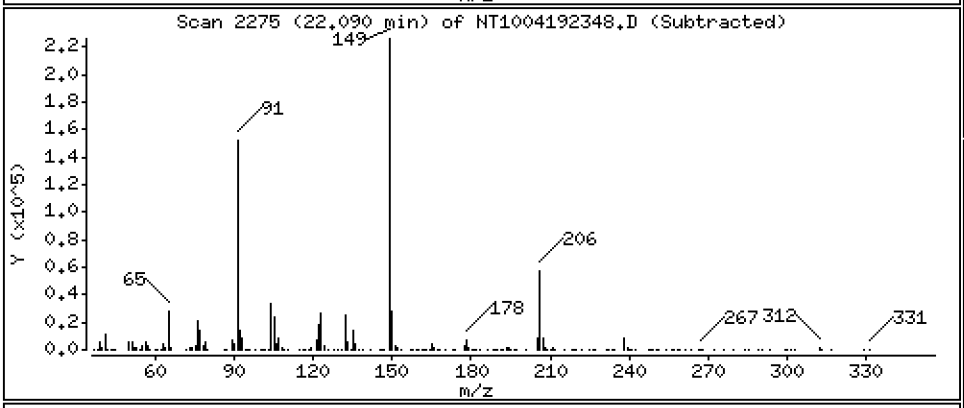
Column phase: ZB-5msi

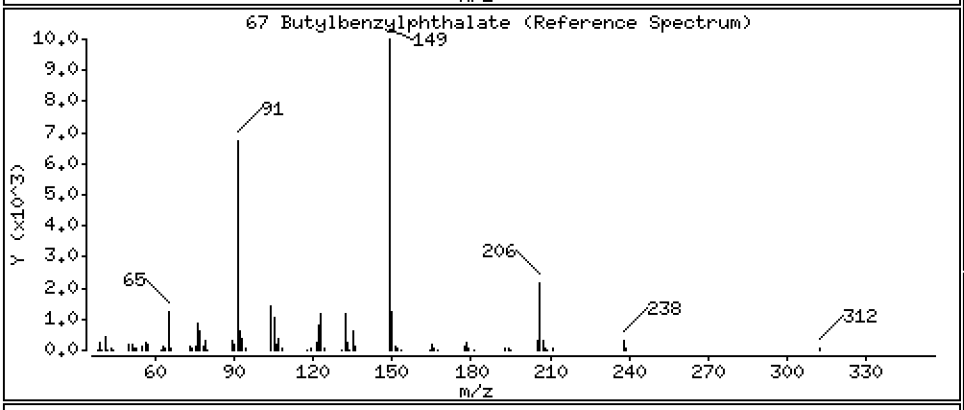
Column diameter: 0.25

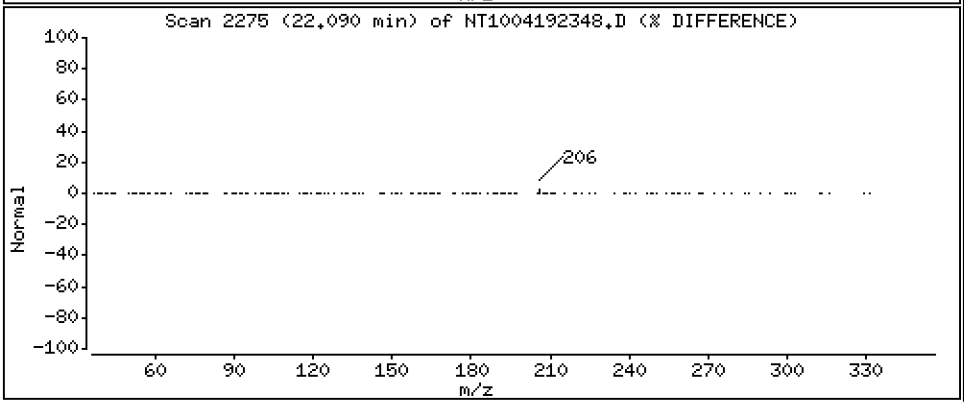
67 Butylbenzylphthalate

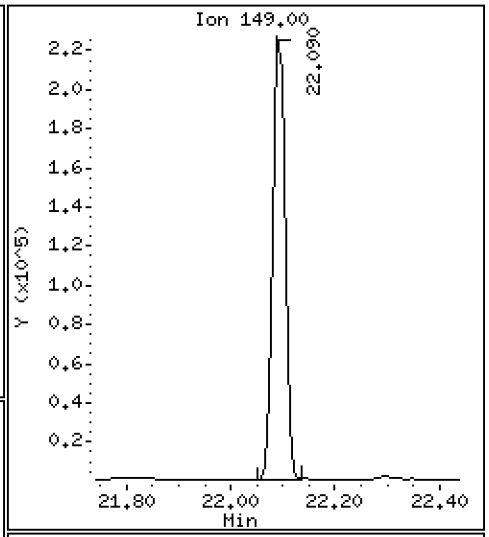
Concentration: 4.684 ug/mL

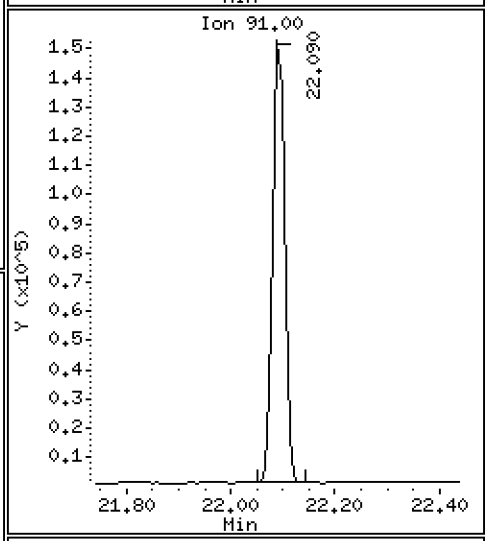


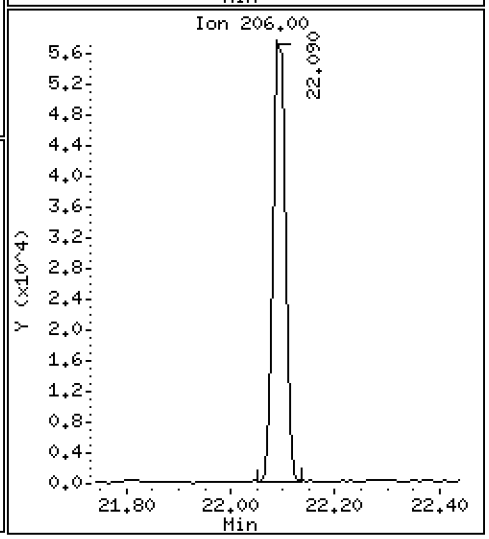












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192348.D

Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

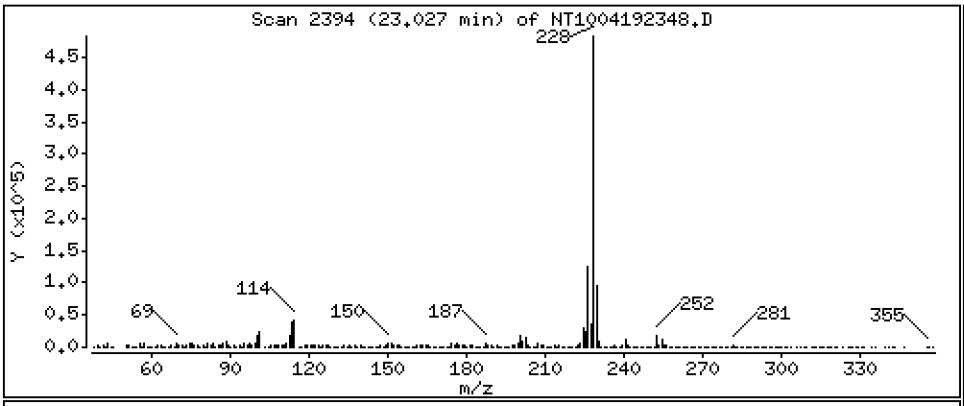
Operator: VTS

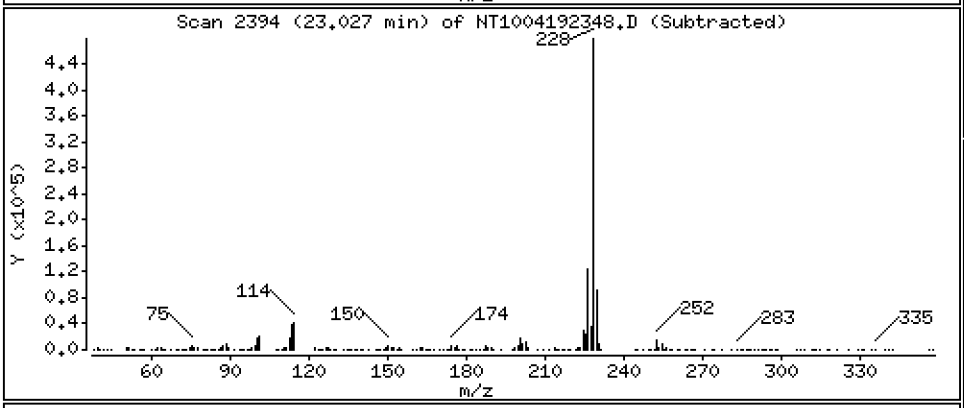
Column phase: ZB-5msi

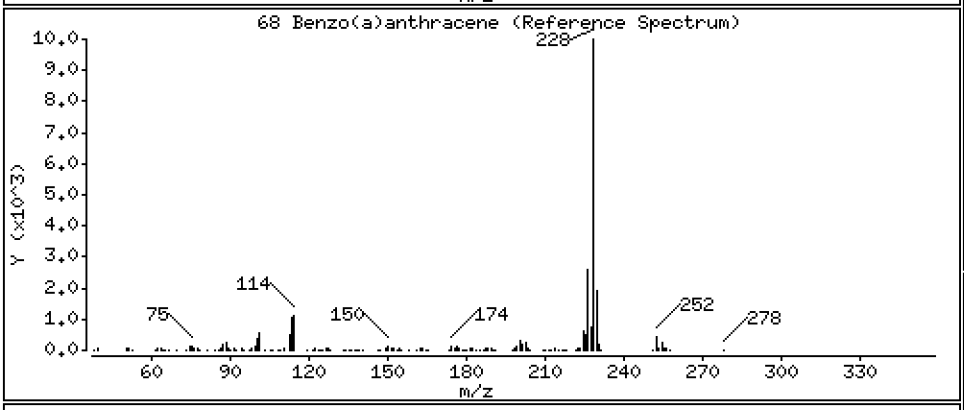
Column diameter: 0.25

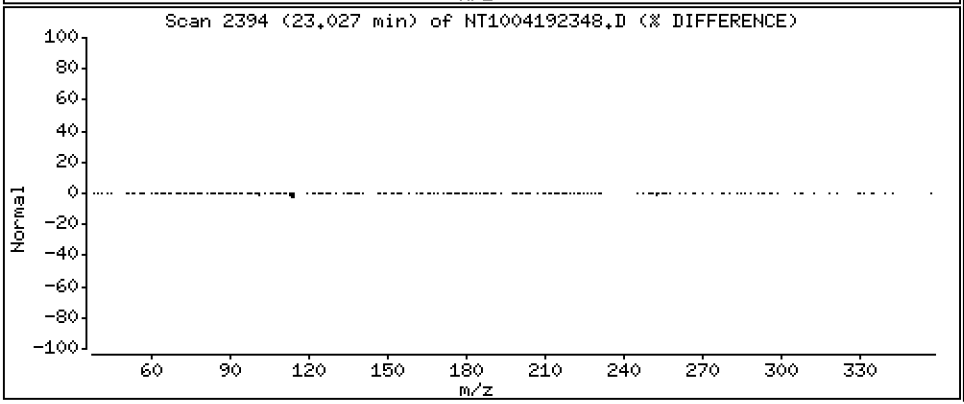
68 Benzo(a)anthracene

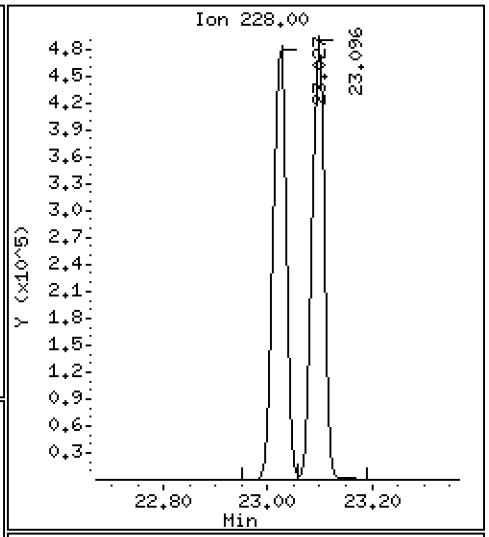
Concentration: 4.587 ug/mL

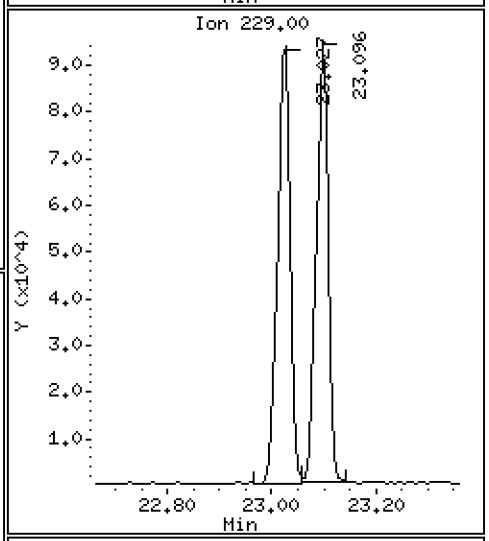


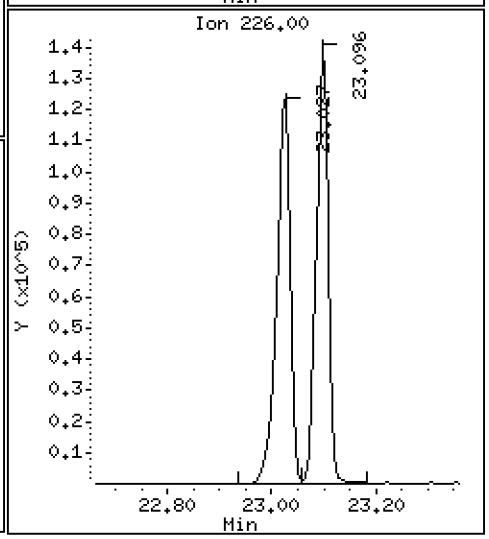












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

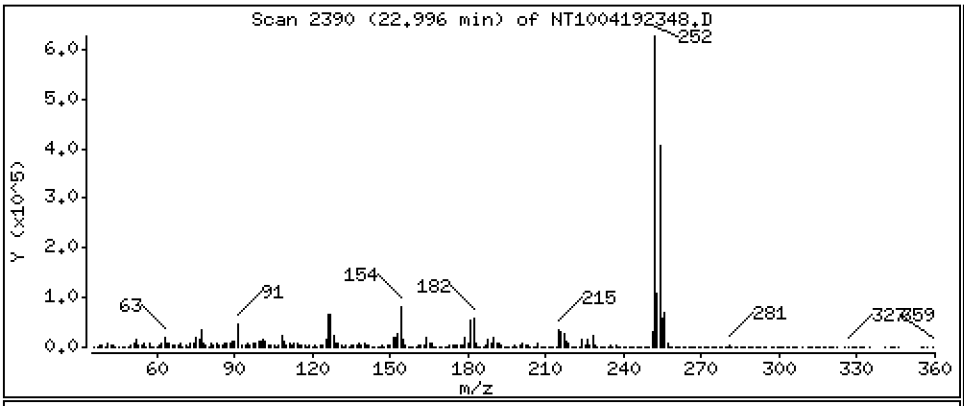
Operator: VTS

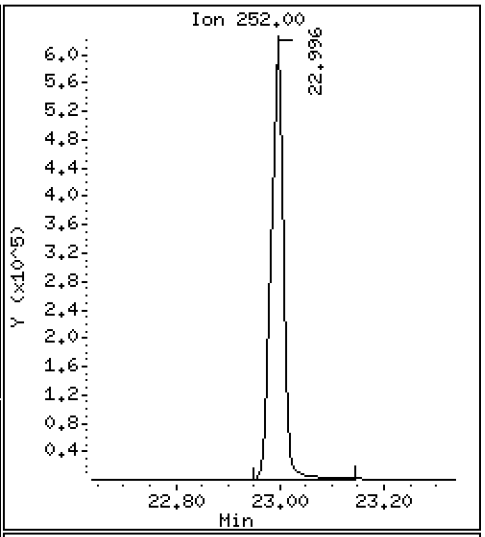
Column phase: ZB-5msi

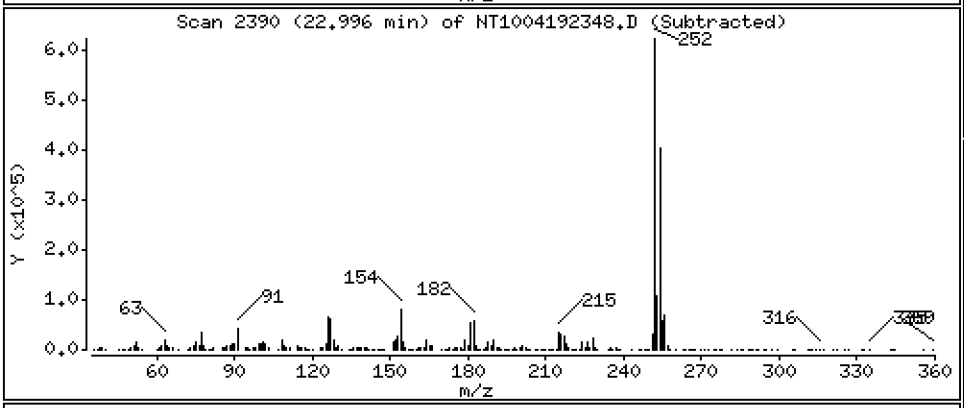
Column diameter: 0.25

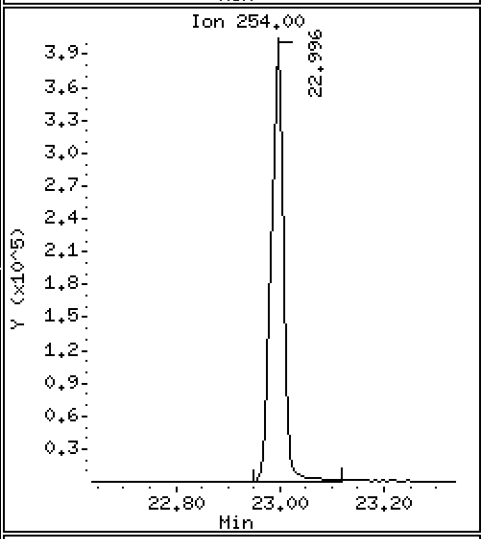
70 3,3'-Dichlorobenzidine

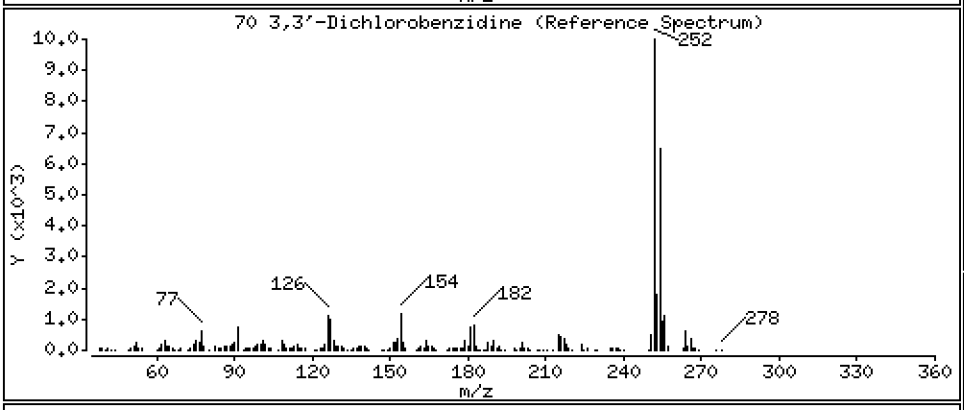
Concentration: 17.38 ug/mL

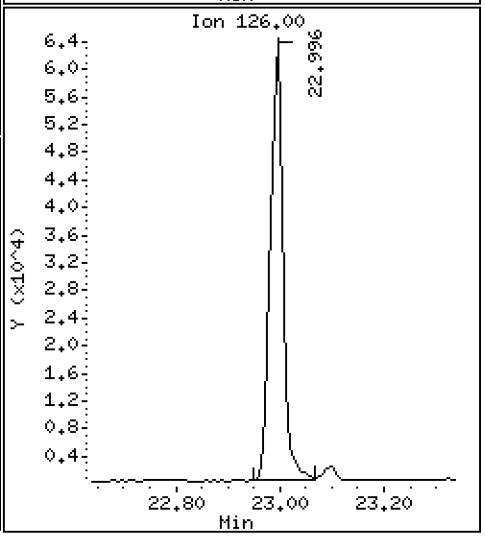


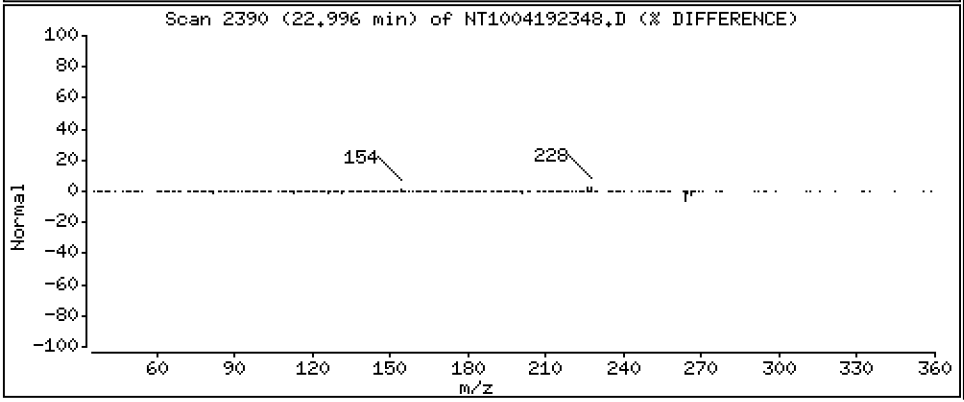












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

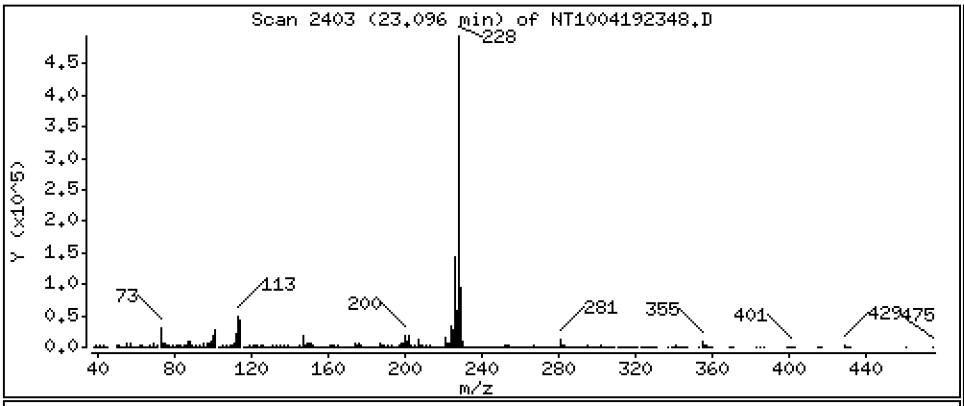
Operator: VTS

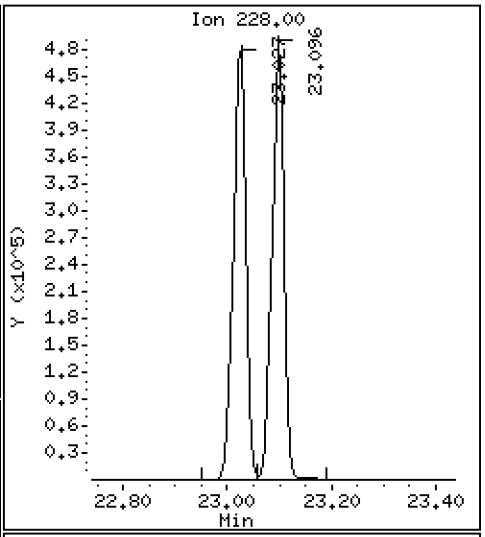
Column phase: ZB-5msi

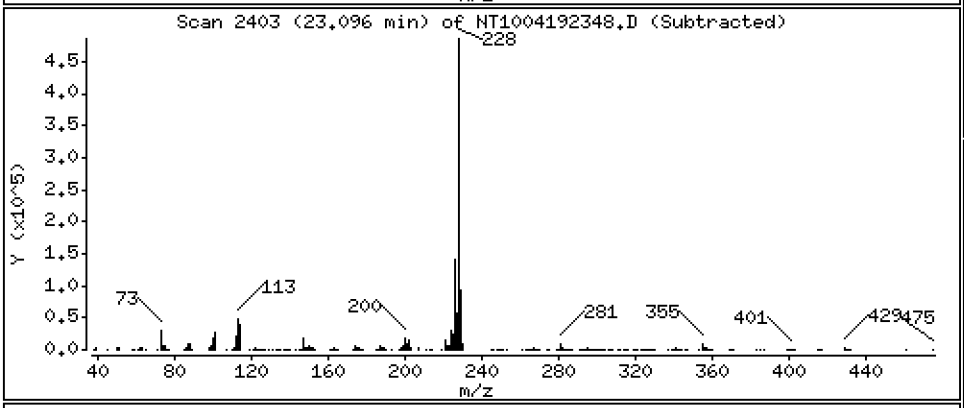
Column diameter: 0.25

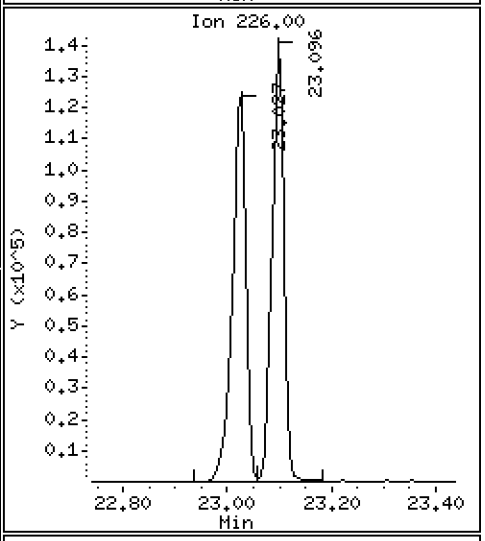
71 Chrysene

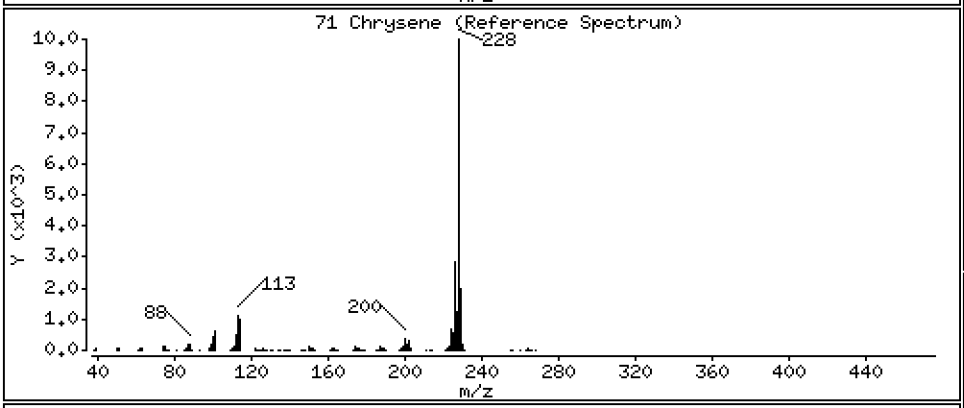
Concentration: 4.394 ug/mL

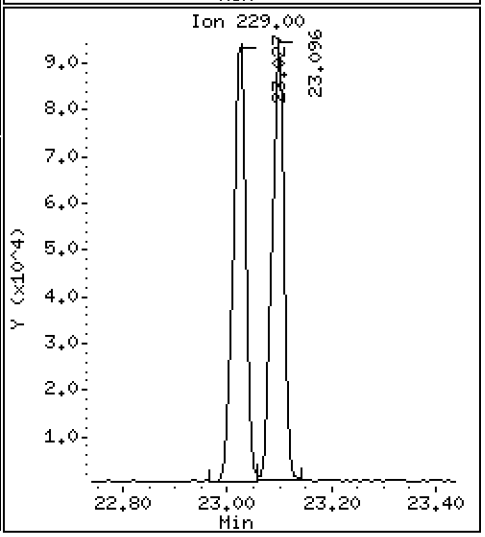


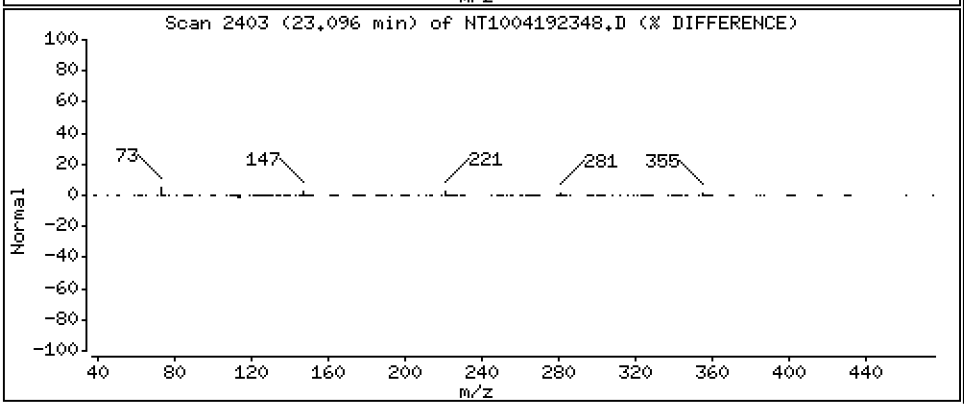












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

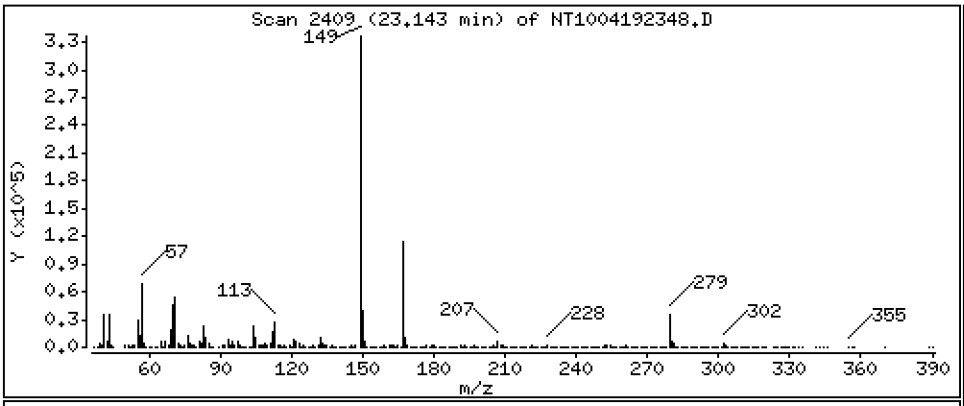
Operator: VTS

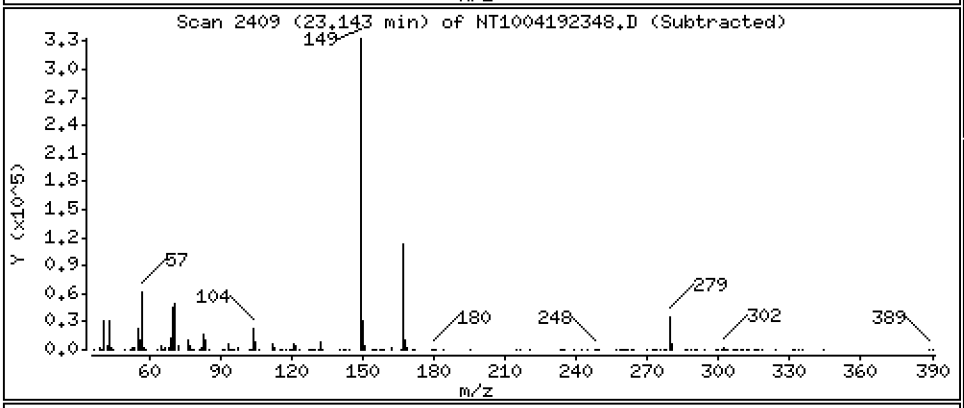
Column phase: ZB-5msi

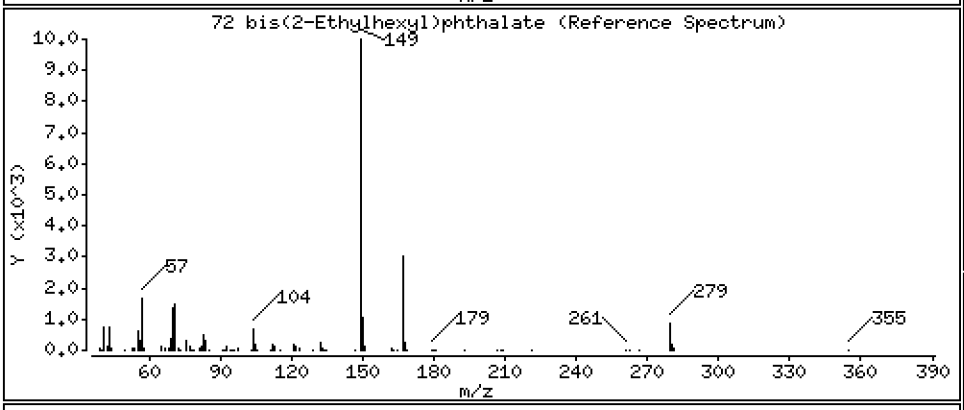
Column diameter: 0.25

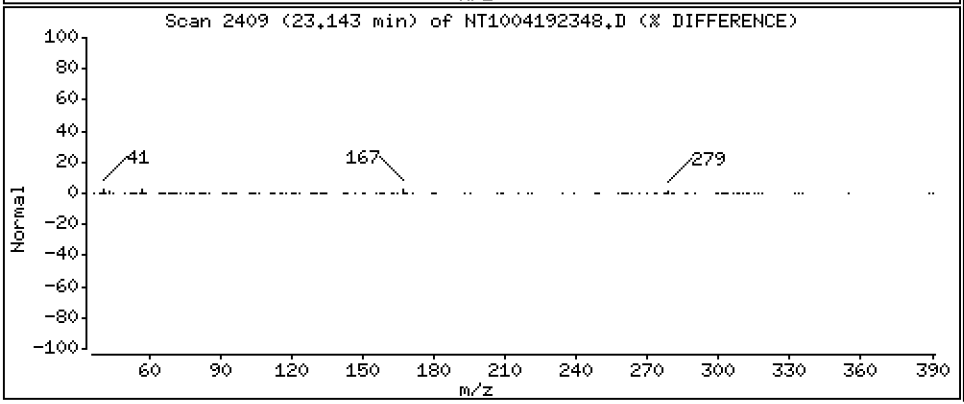
72 bis(2-Ethylhexyl)phthalate

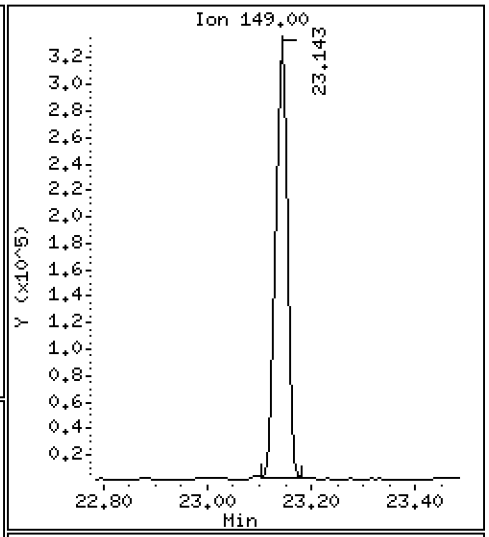
Concentration: 4.318 ug/mL

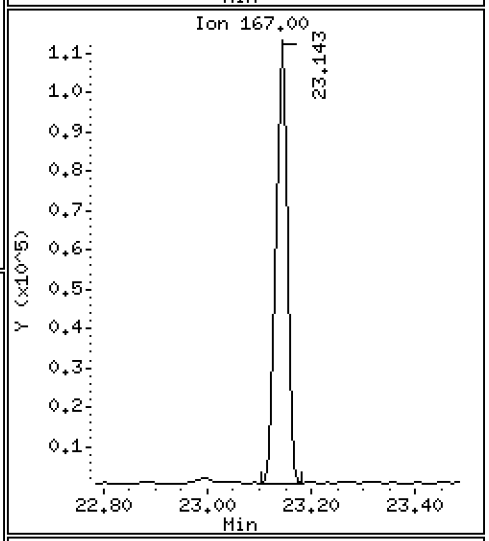


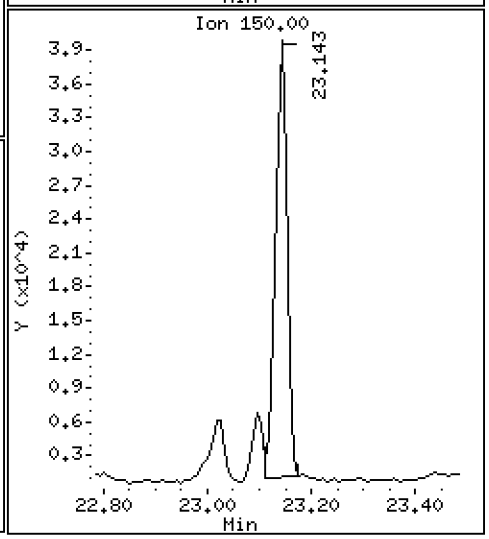












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

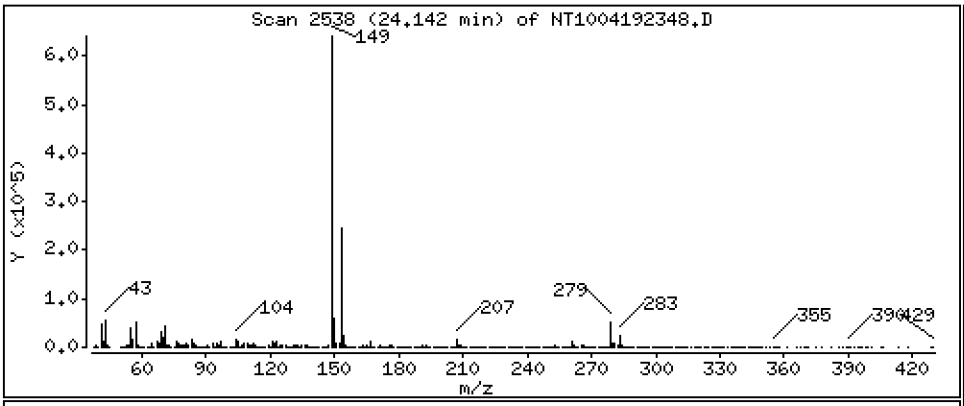
Operator: VTS

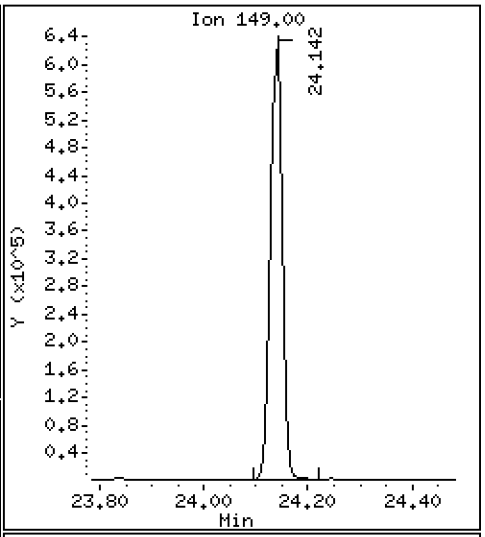
Column phase: ZB-5msi

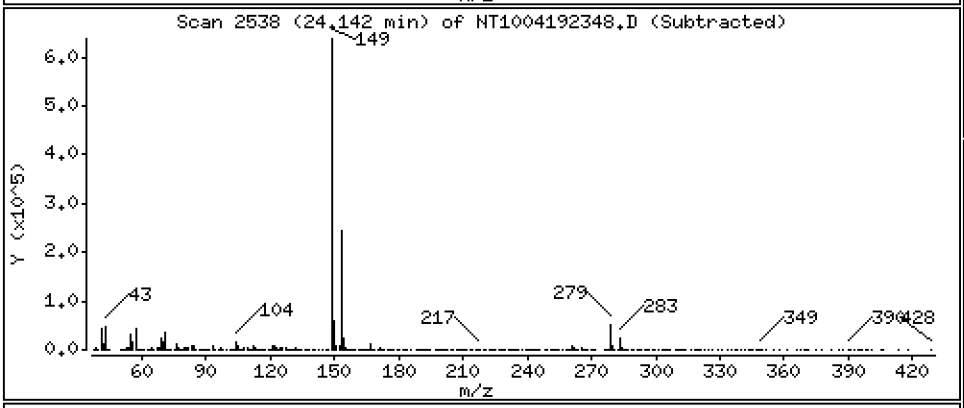
Column diameter: 0.25

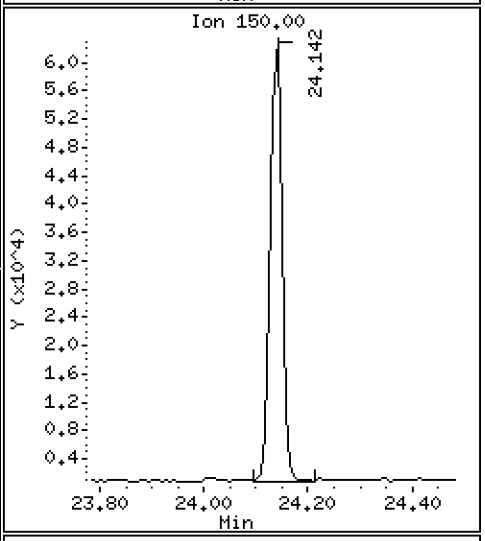
73 Di-n-octylphthalate

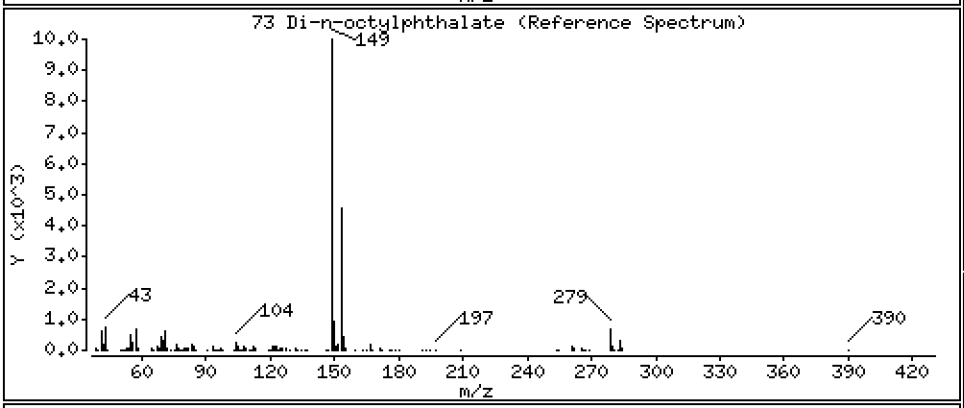
Concentration: 4.431 ug/mL

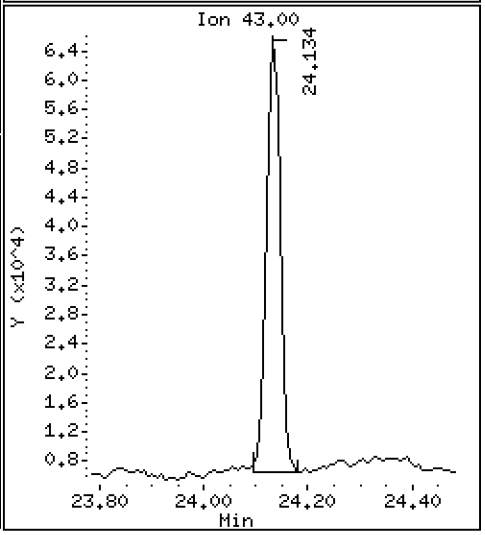


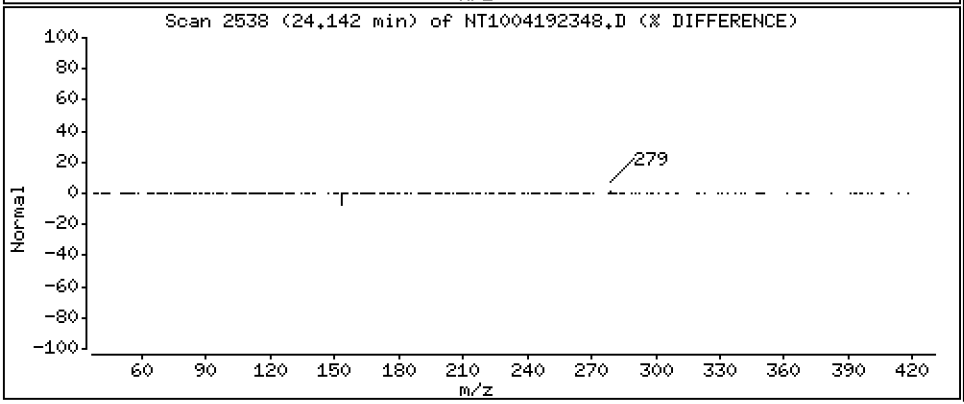












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

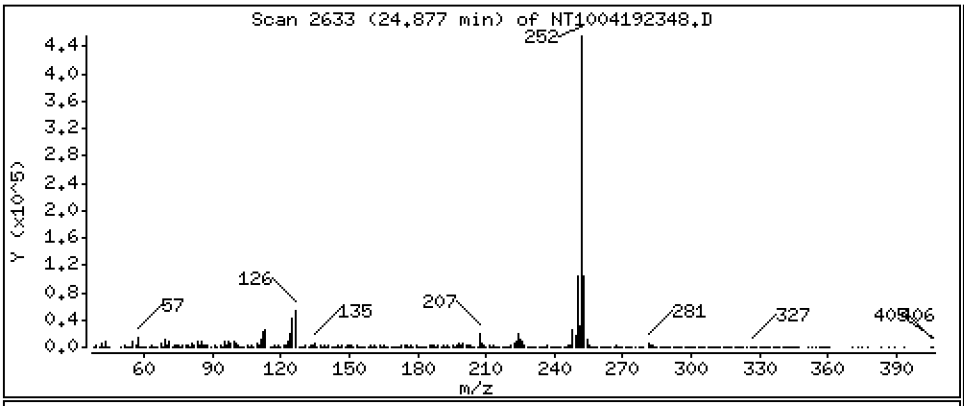
Operator: VTS

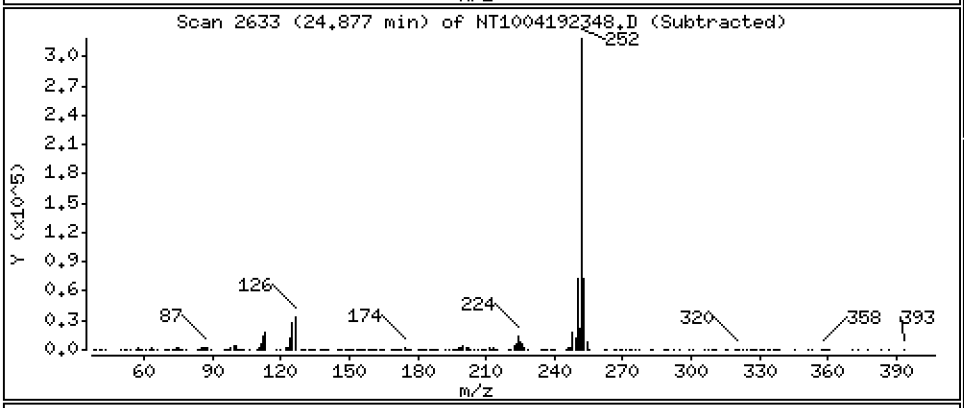
Column phase: ZB-5msi

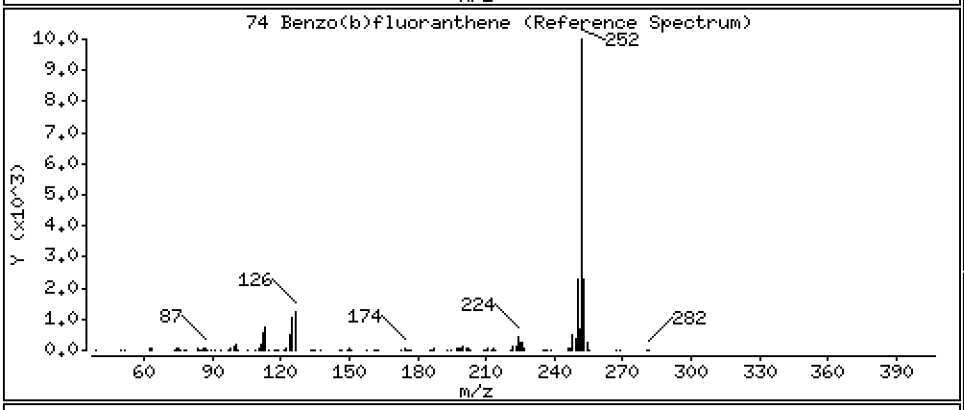
Column diameter: 0.25

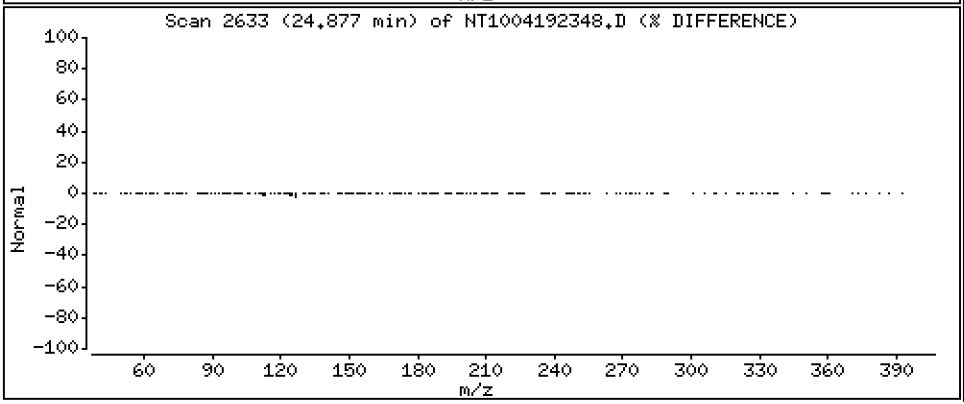
74 Benzo(b)fluoranthene

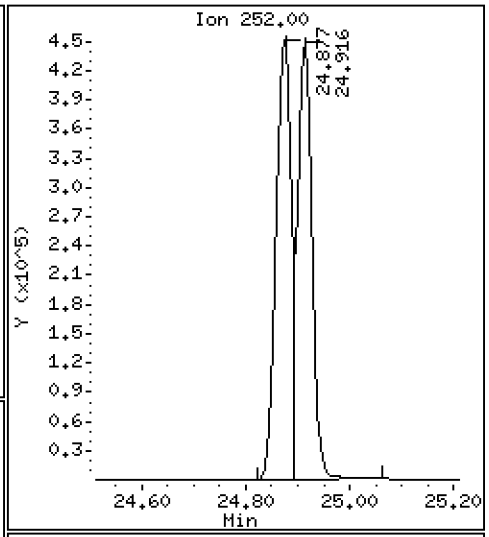
Concentration: 4.699 ug/mL

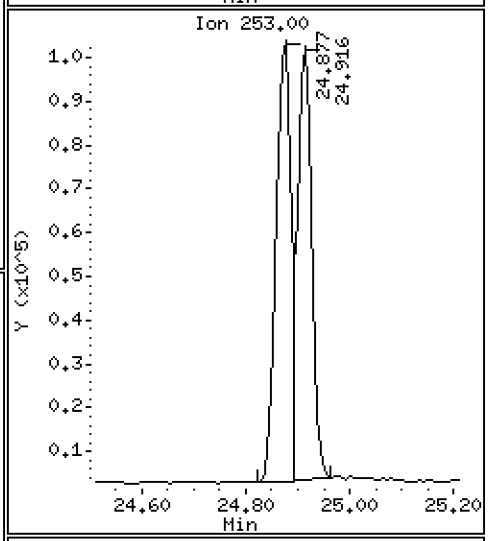


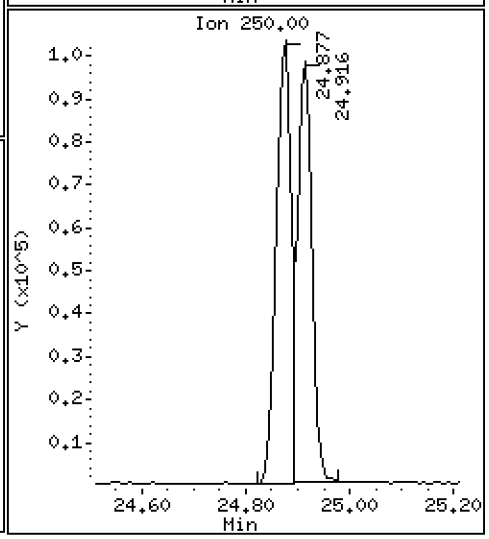












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

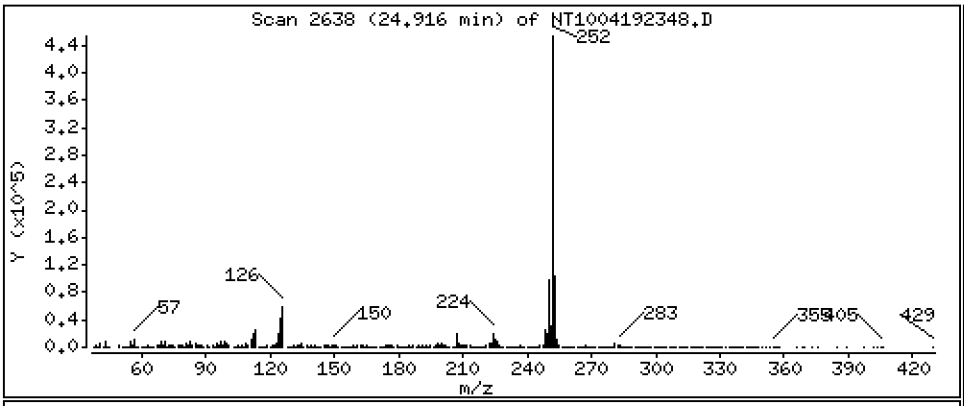
Operator: VTS

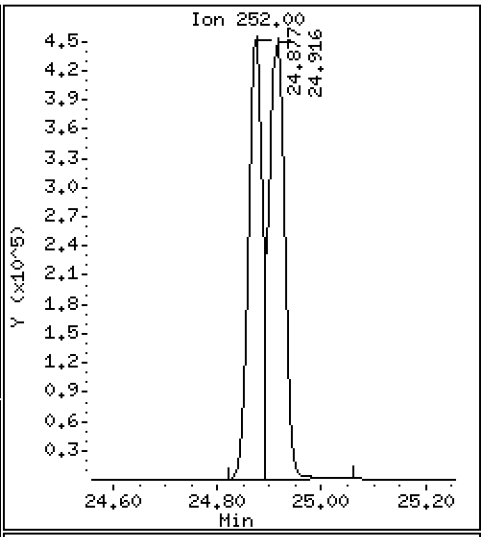
Column phase: ZB-5msi

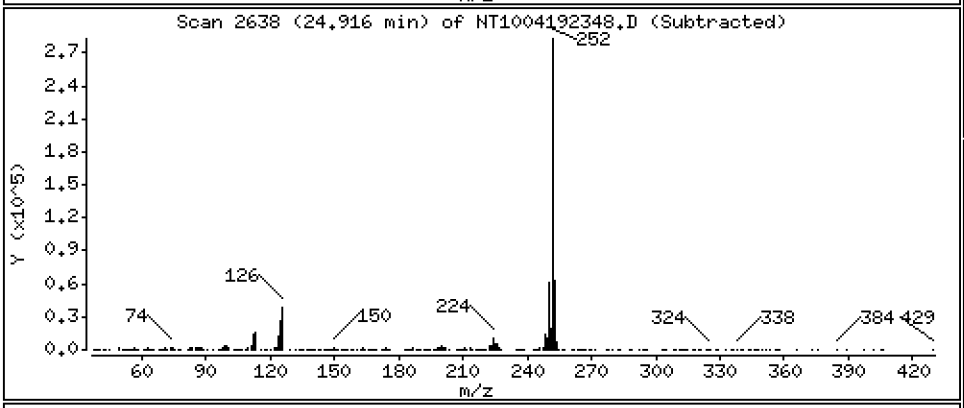
Column diameter: 0.25

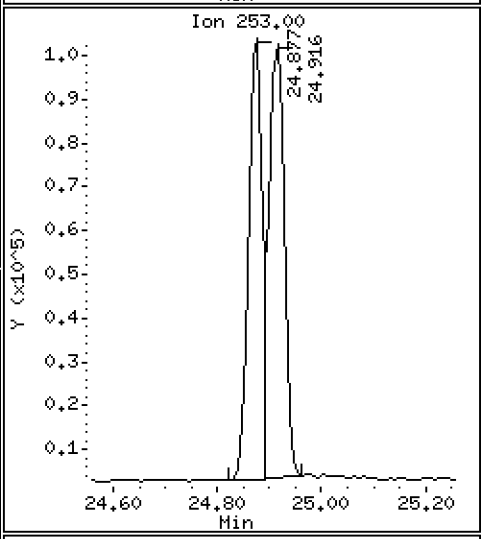
75 Benzo(k)fluoranthene

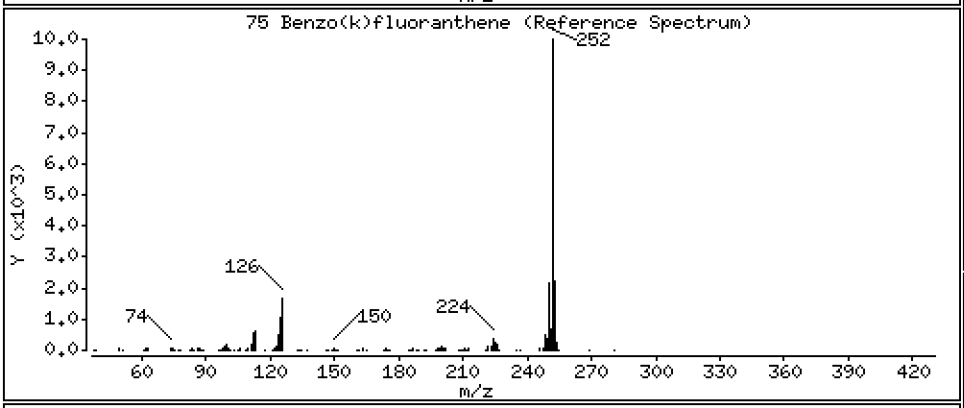
Concentration: 4.887 ug/mL

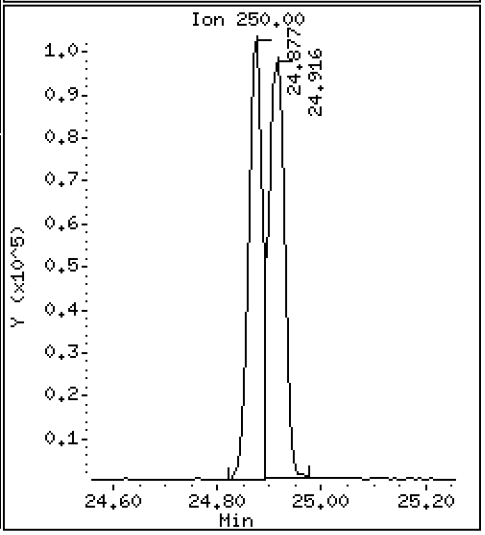


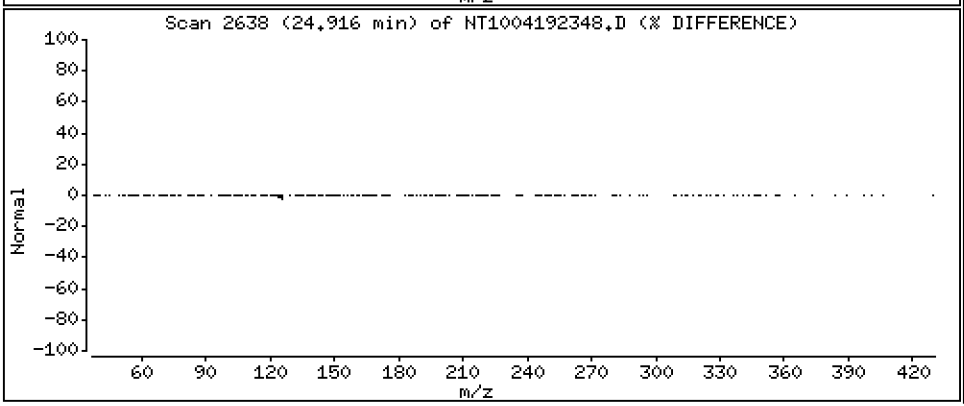












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192348.D

Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

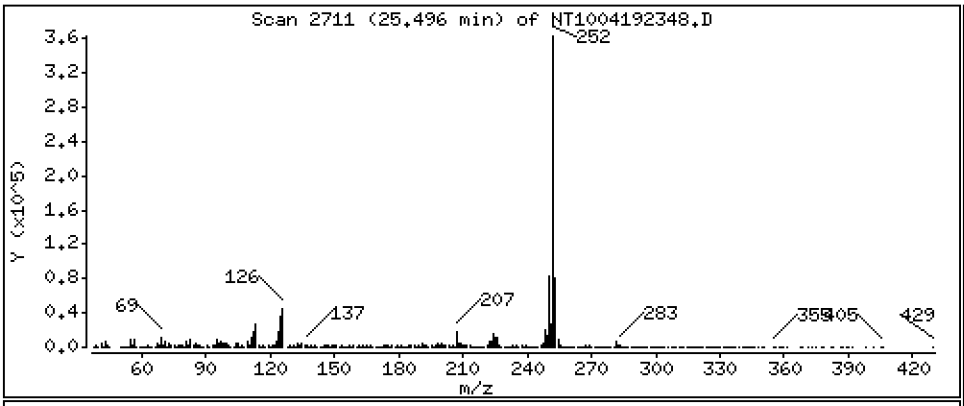
Operator: VTS

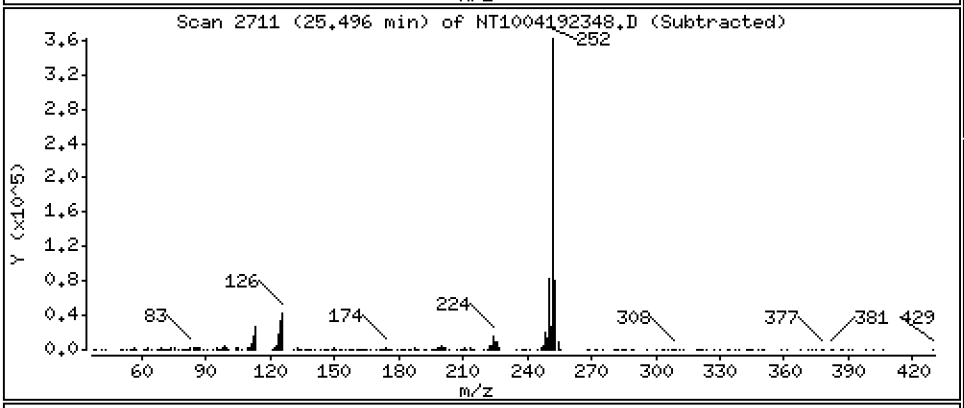
Column phase: ZB-5msi

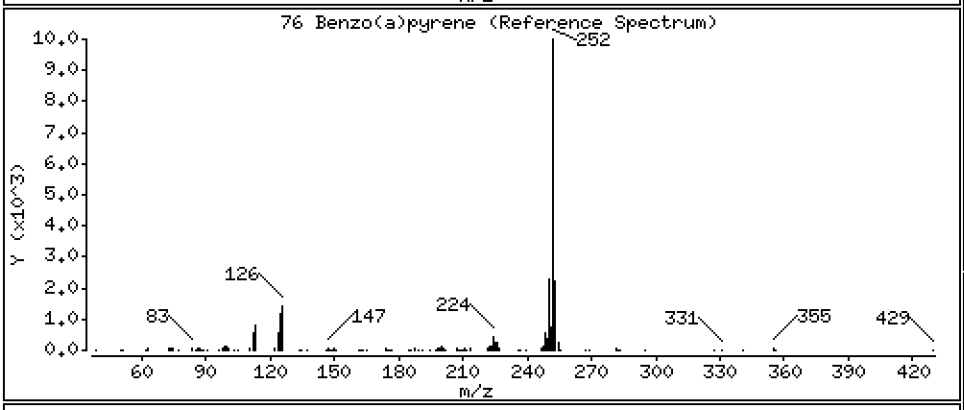
Column diameter: 0.25

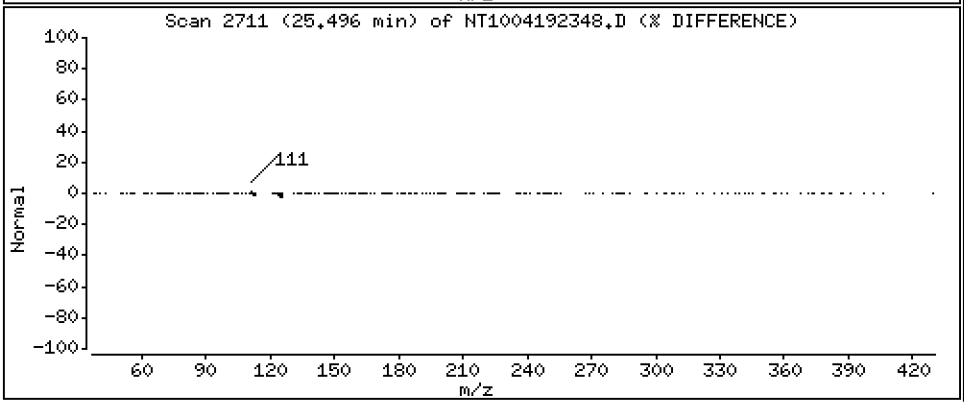
76 Benzo(a)pyrene

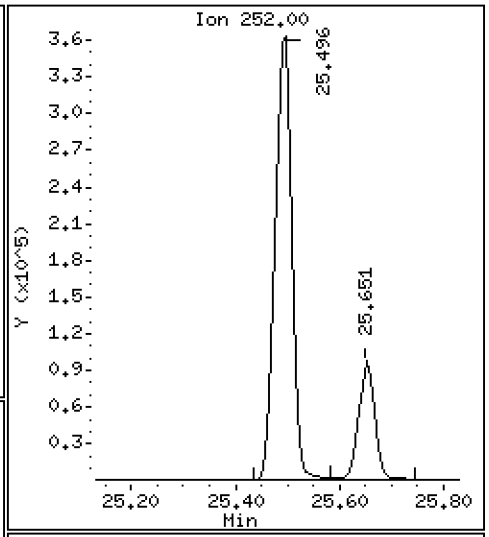
Concentration: 4.699 ug/mL

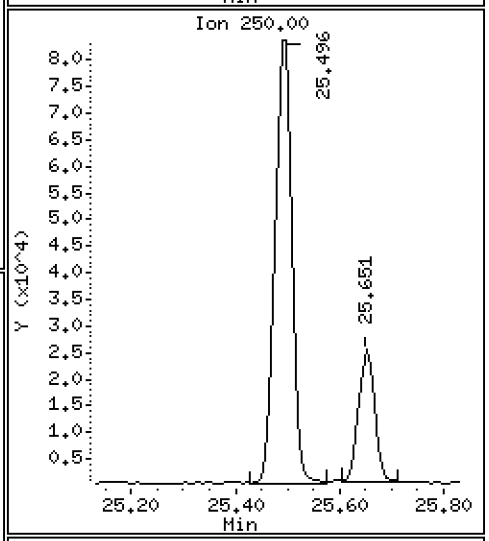


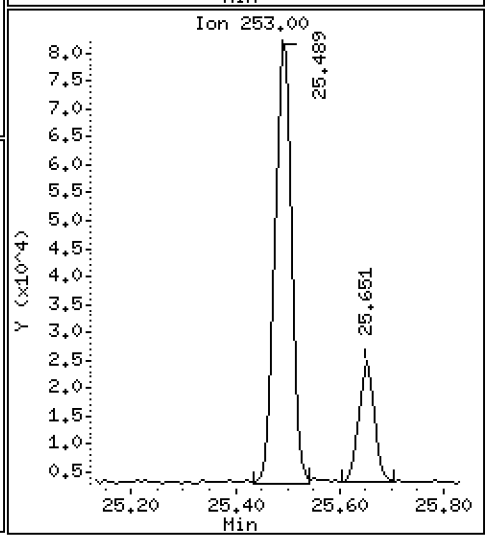












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

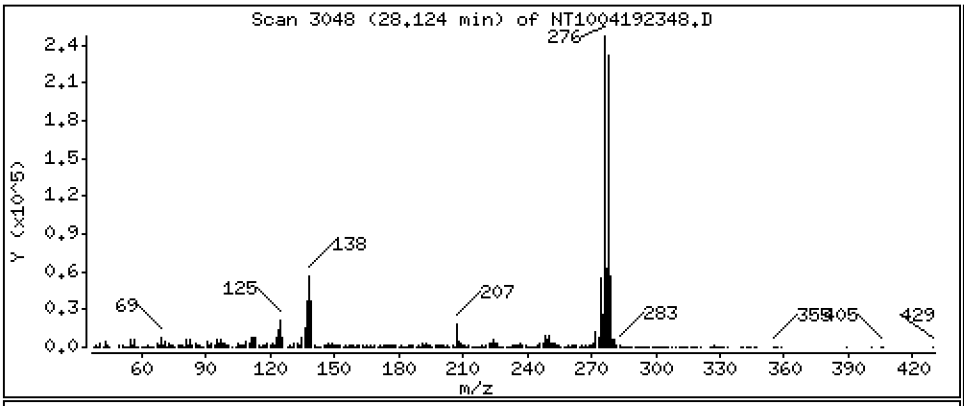
Operator: VTS

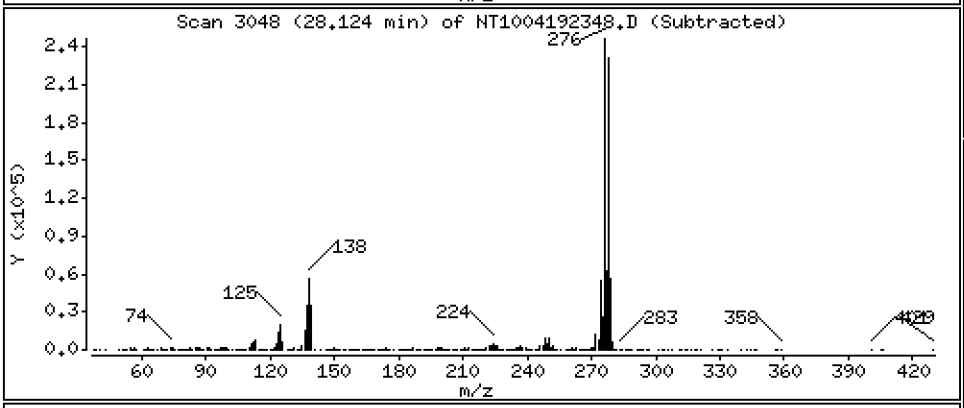
Column phase: ZB-5msi

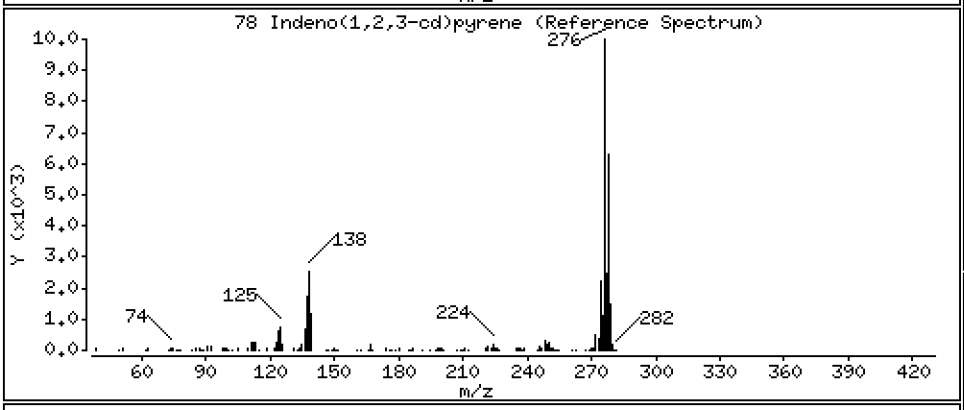
Column diameter: 0.25

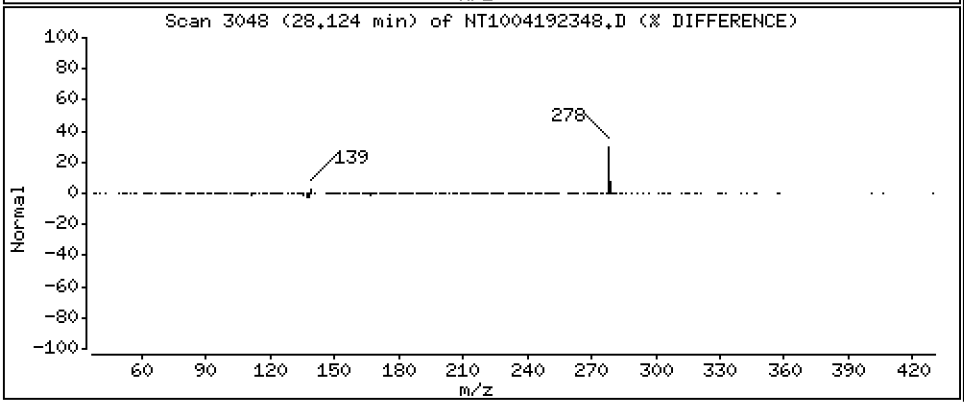
78 Indeno(1,2,3-cd)pyrene

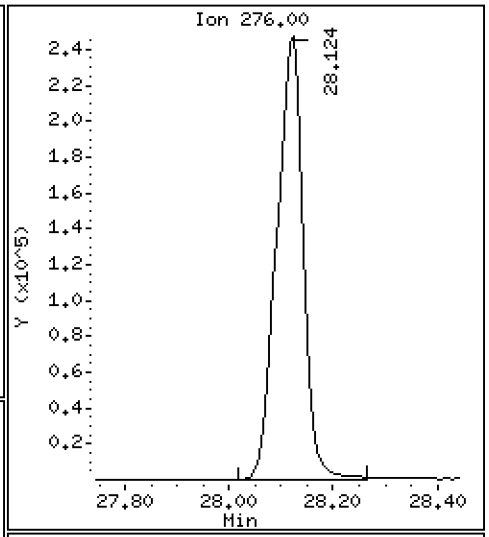
Concentration: 4.066 ug/mL

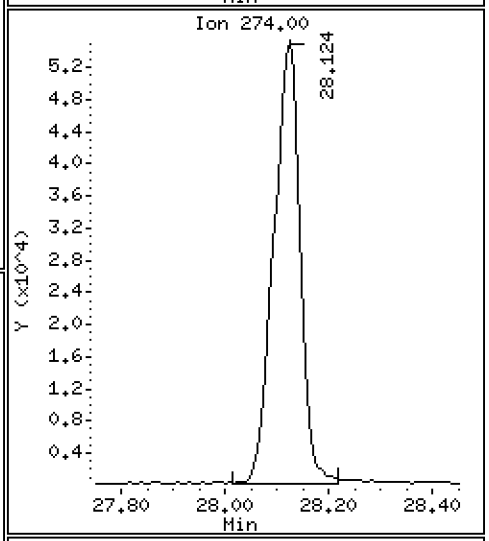


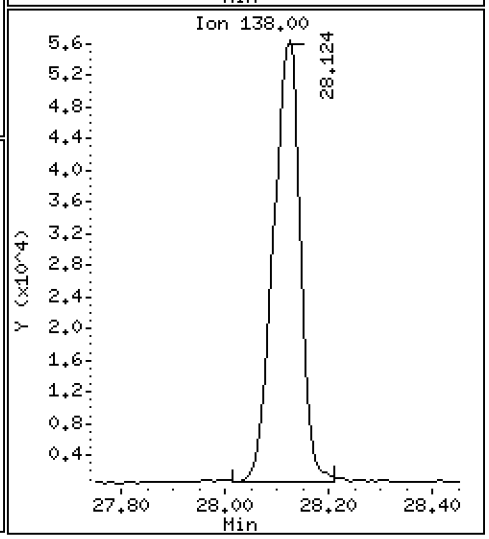












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192348.D

Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

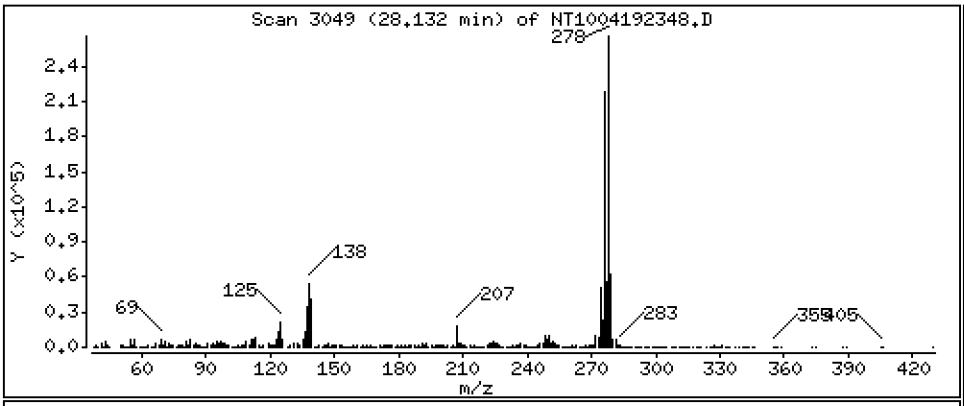
Operator: VTS

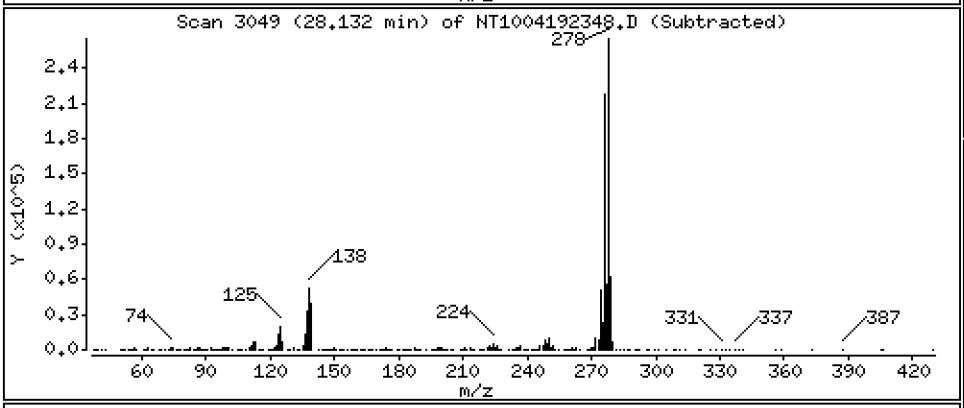
Column phase: ZB-5msi

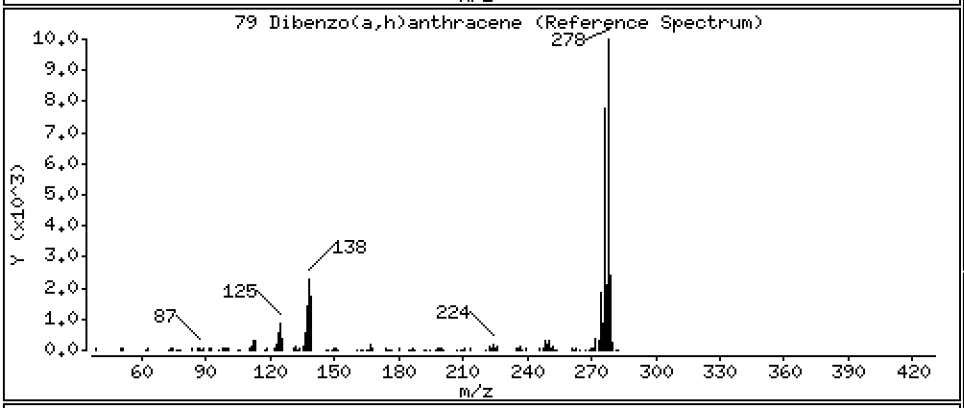
Column diameter: 0.25

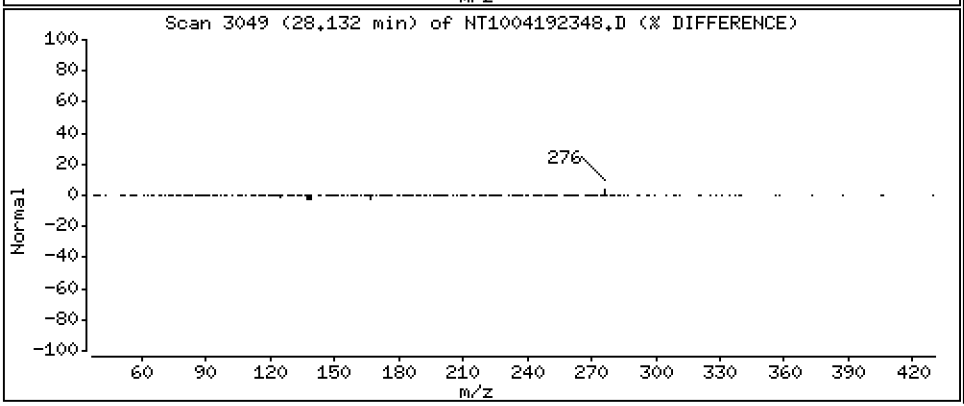
79 Dibenzo(a,h)anthracene

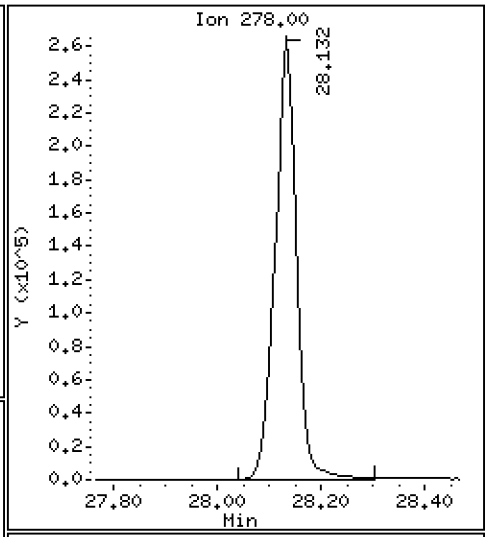
Concentration: 4.197 ug/mL

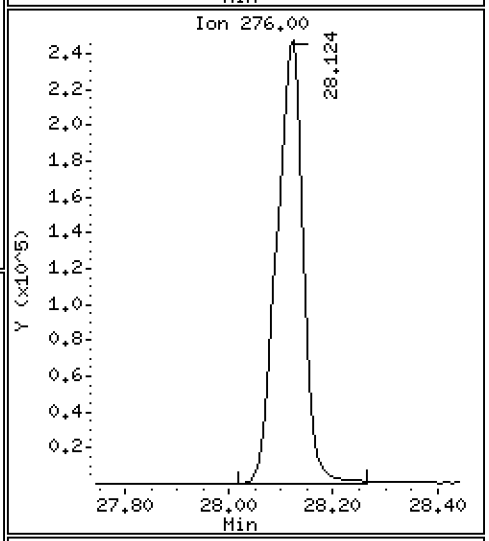


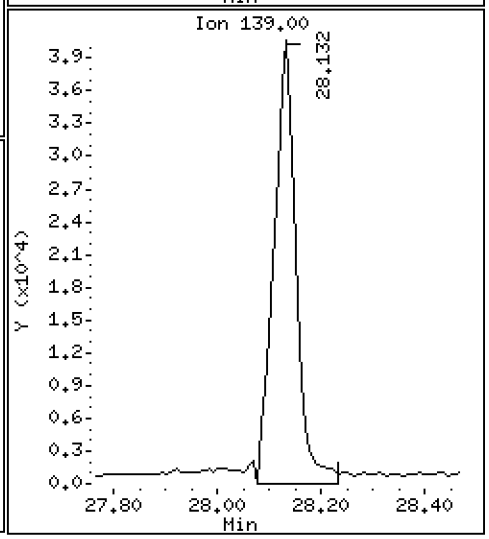












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

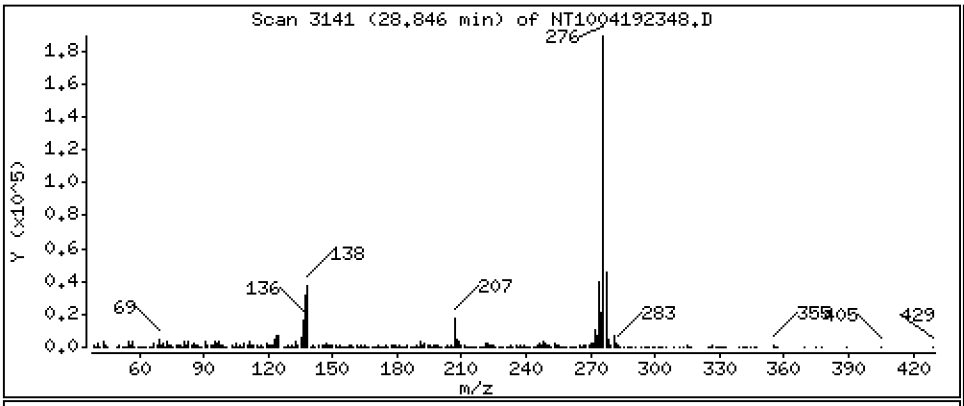
Operator: VTS

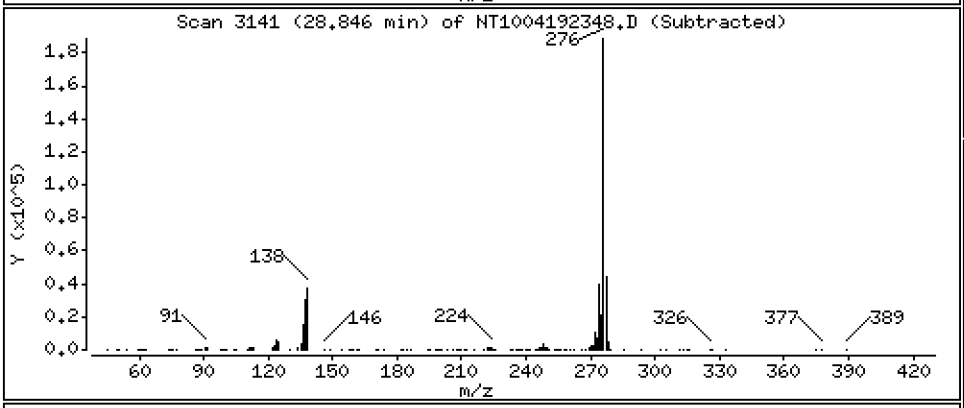
Column phase: ZB-5msi

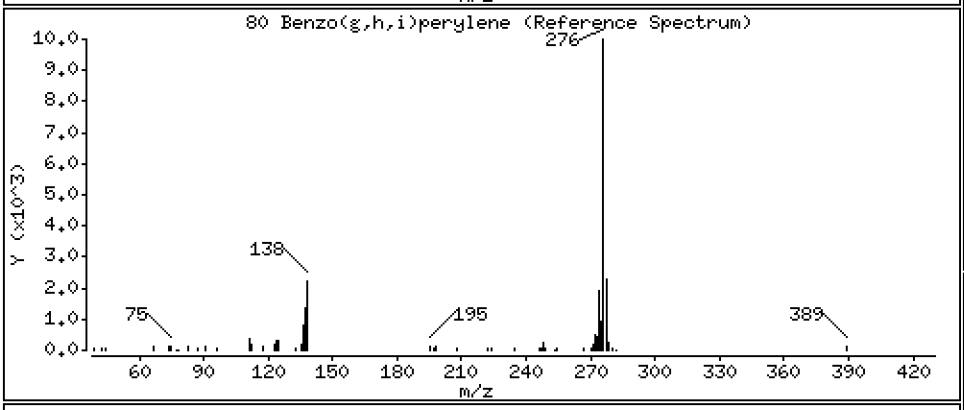
Column diameter: 0.25

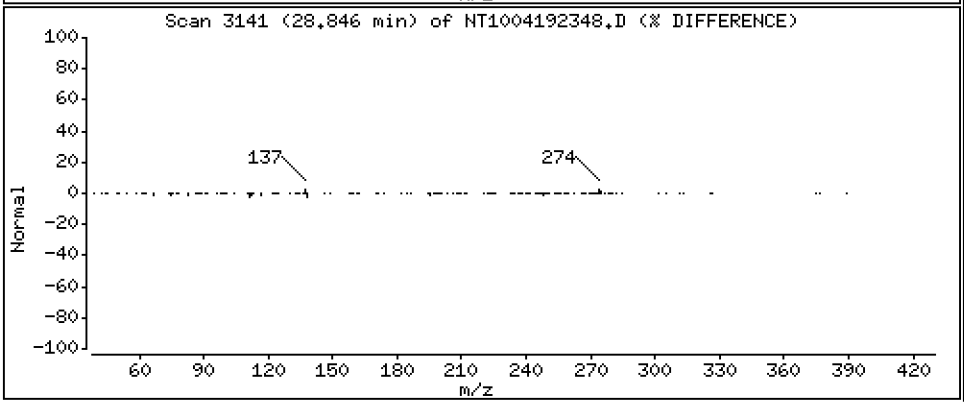
80 Benzo(g,h,i)perylene

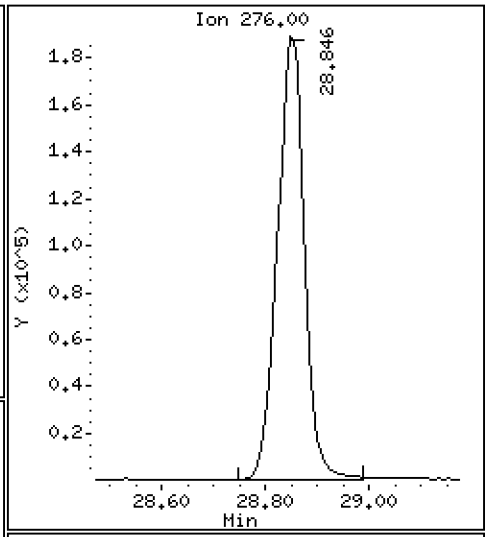
Concentration: 3.634 ug/mL

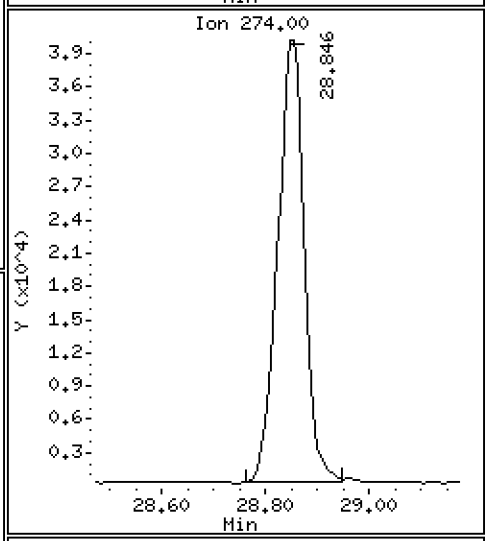


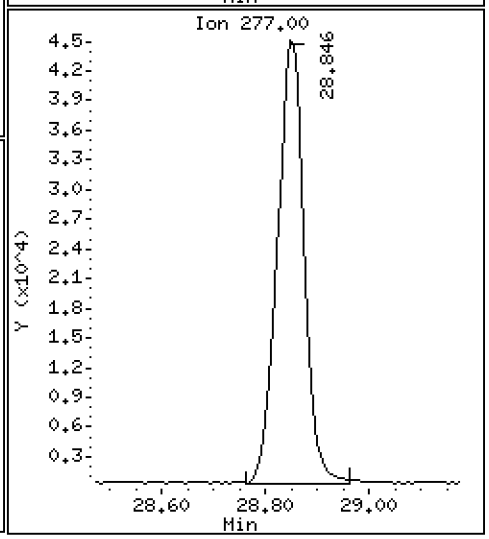












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

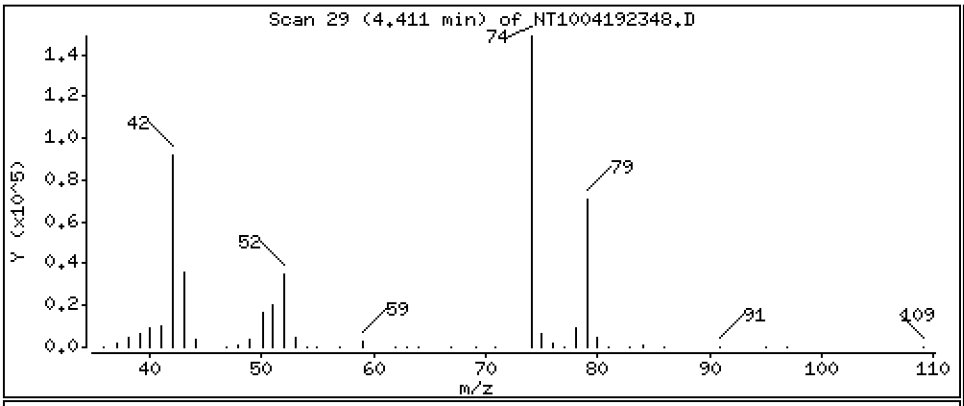
Operator: VTS

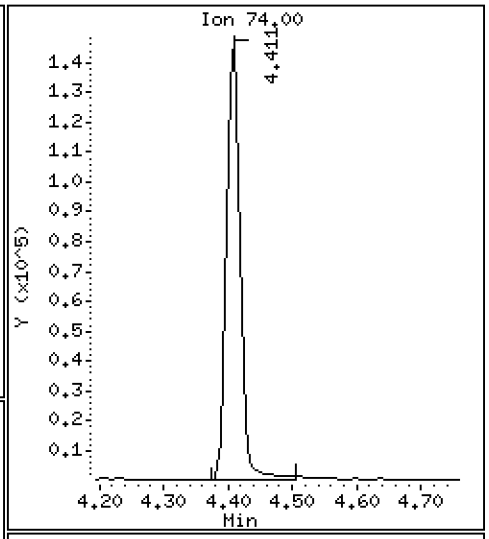
Column phase: ZB-5msi

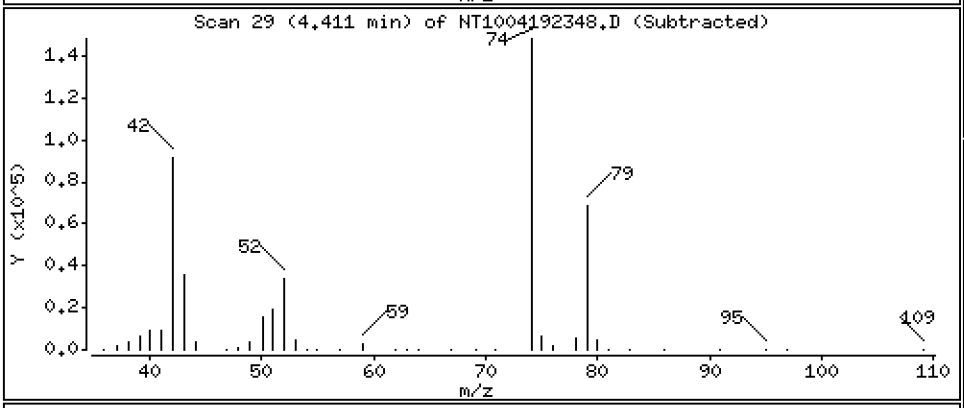
Column diameter: 0.25

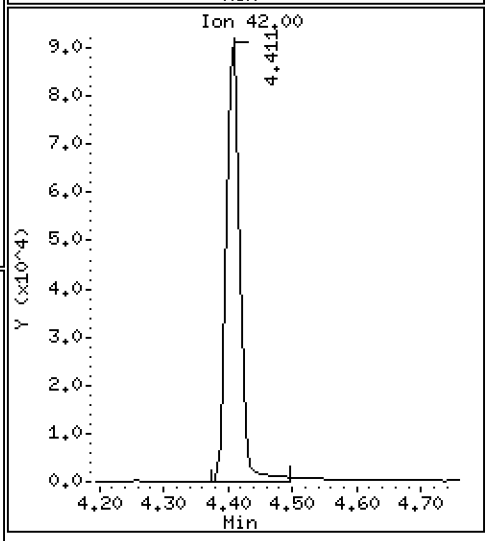
90 N-Nitrosodimethylamine

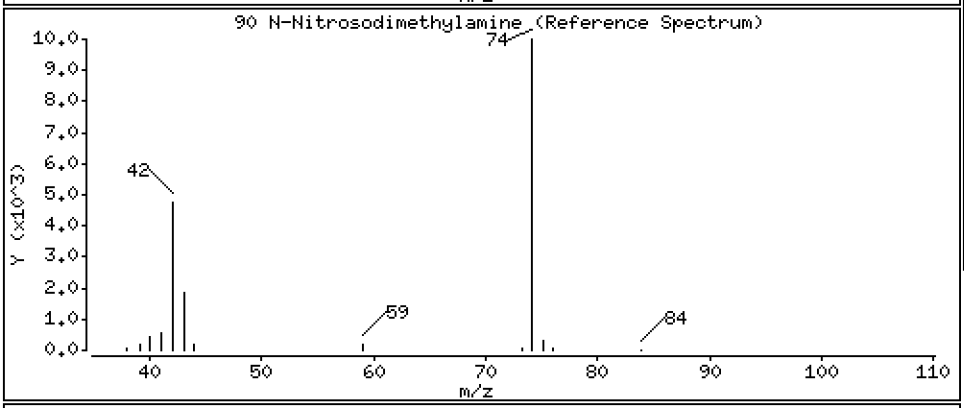
Concentration: 8.309 ug/mL

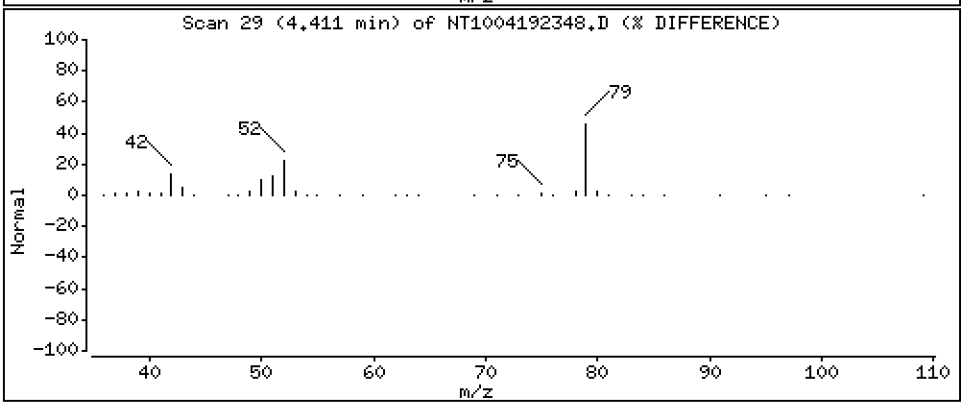












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

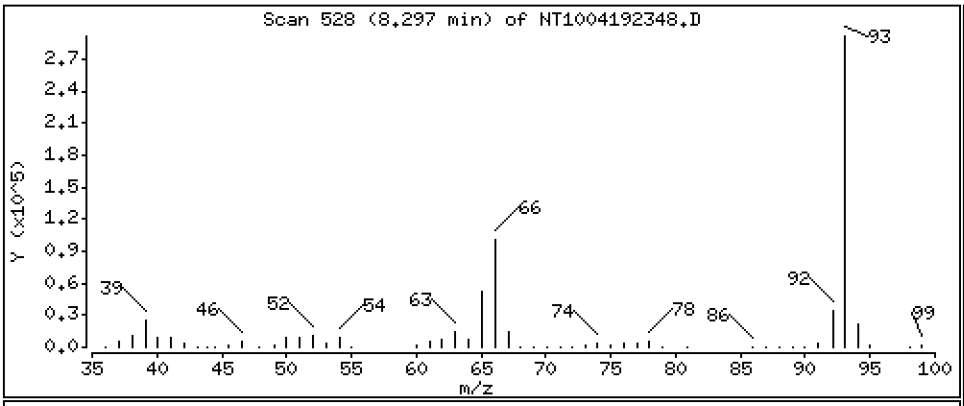
Operator: VTS

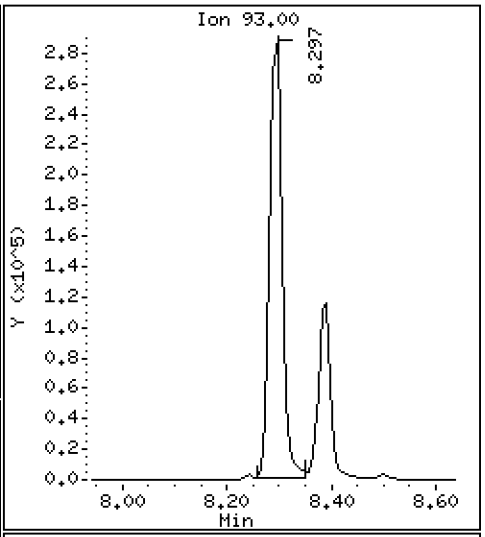
Column phase: ZB-5msi

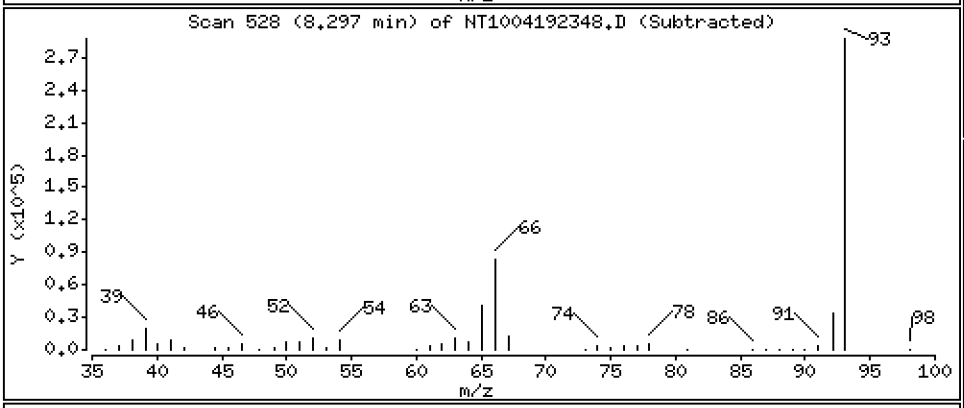
Column diameter: 0.25

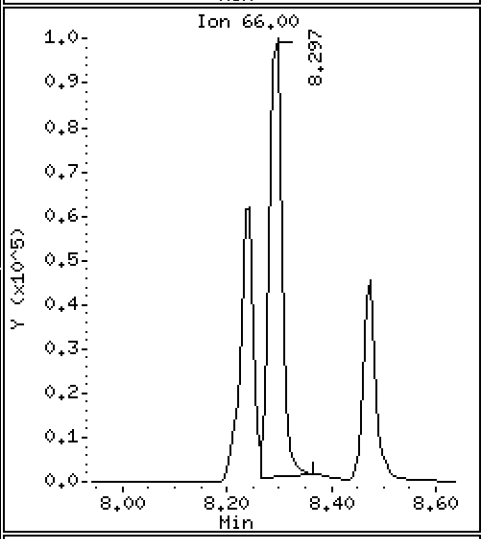
91 Aniline

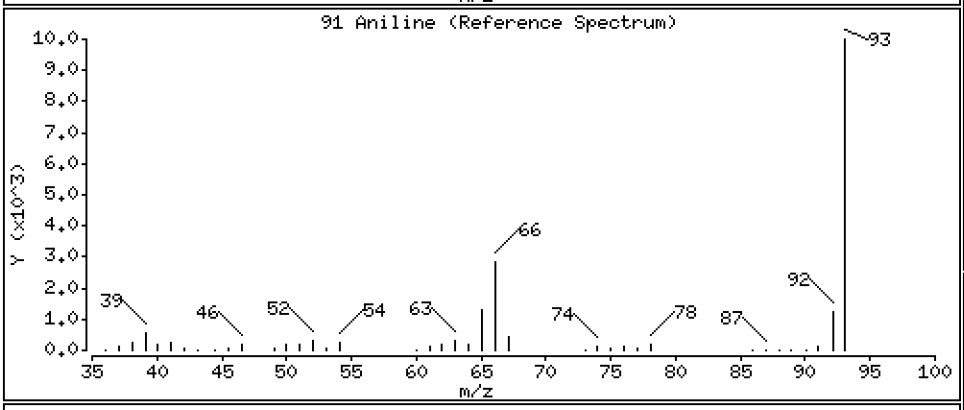
Concentration: 7.952 ug/mL

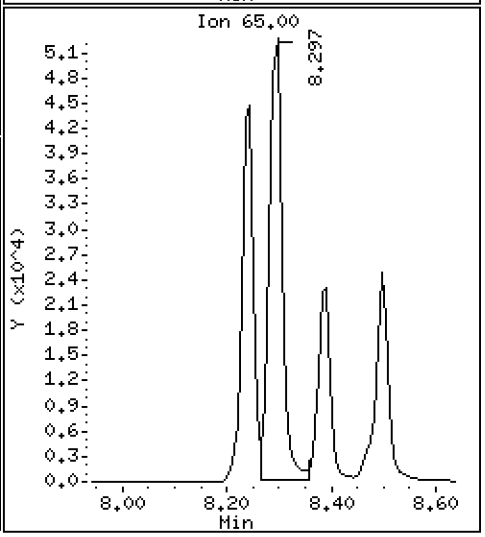


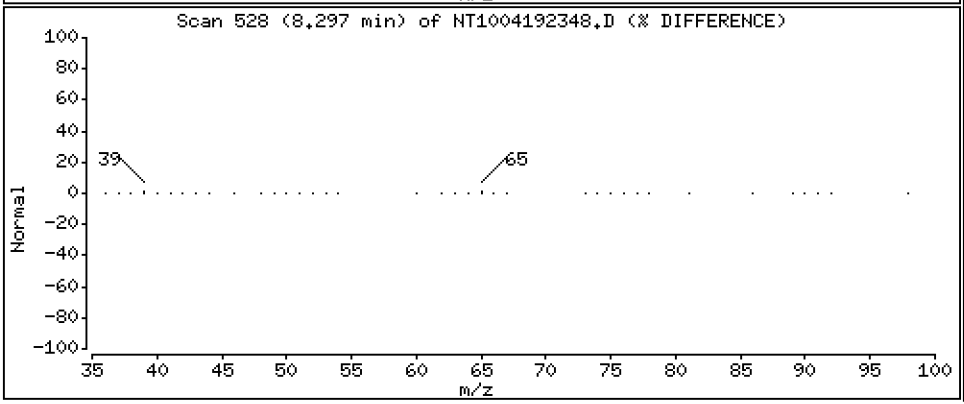












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

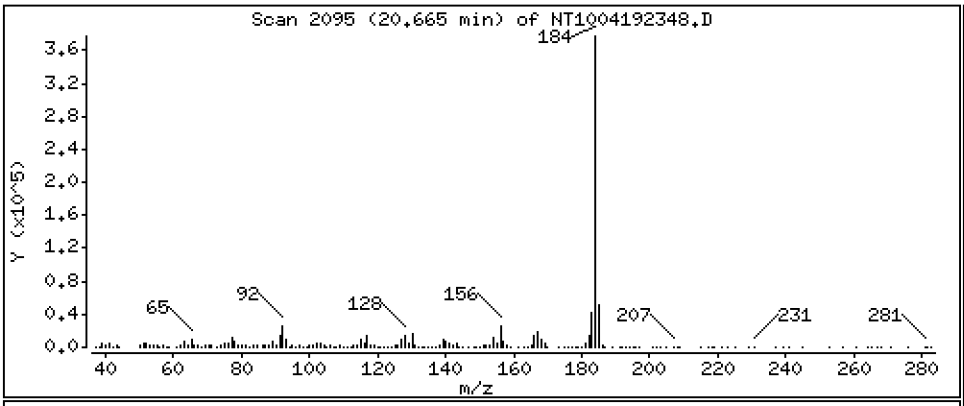
Operator: VTS

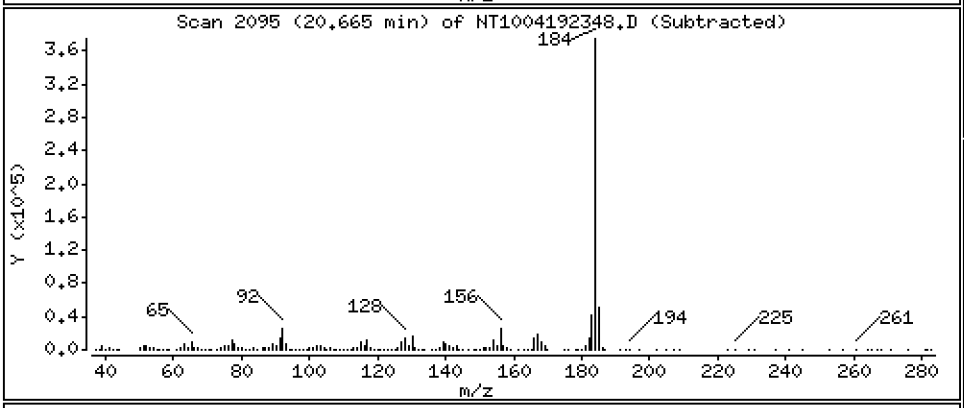
Column phase: ZB-5msi

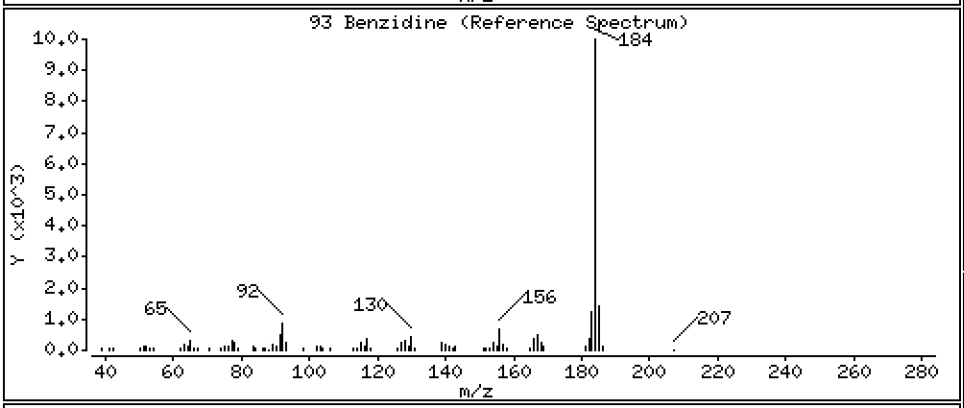
Column diameter: 0.25

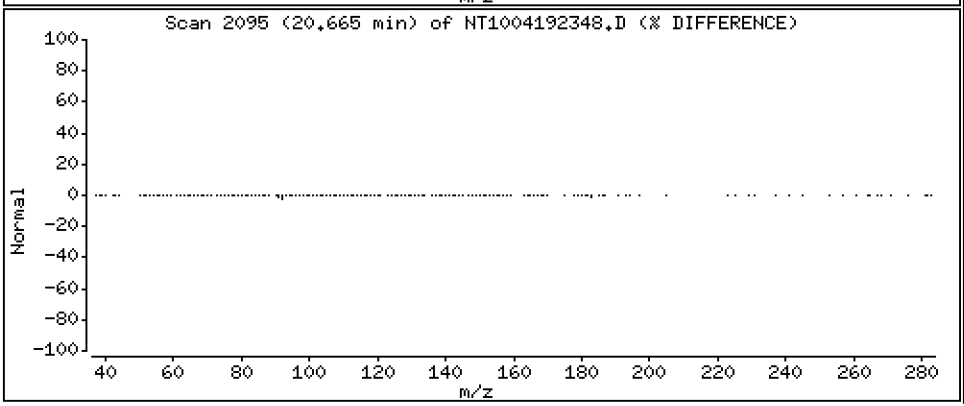
93 Benzidine

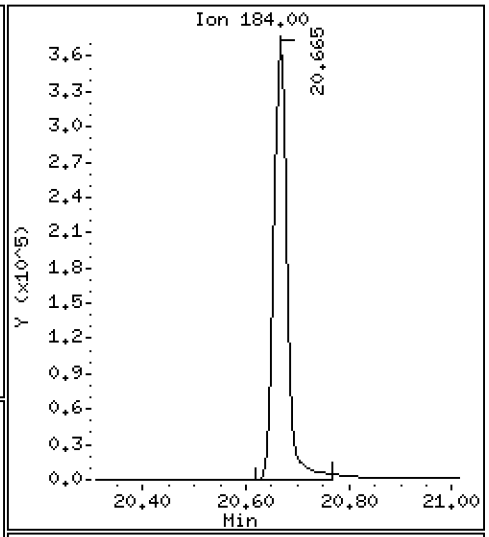
Concentration: 7.617 ug/mL

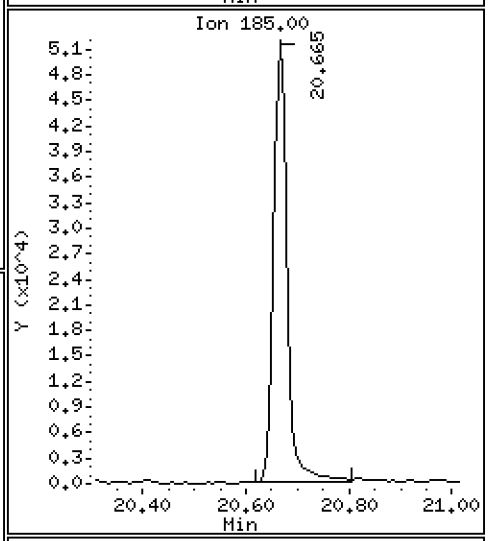


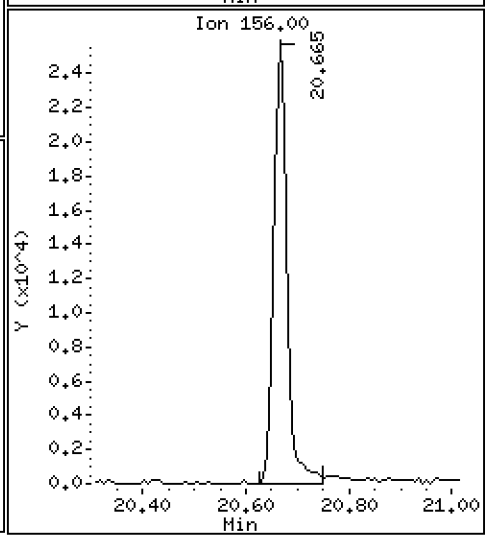












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

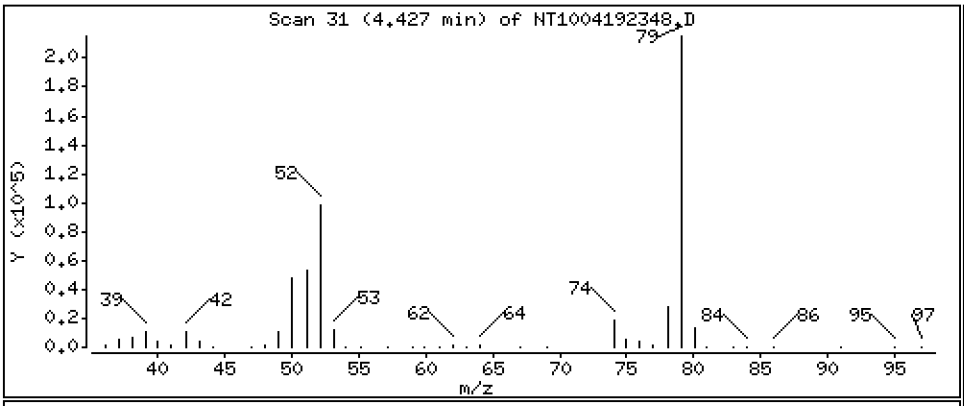
Operator: VTS

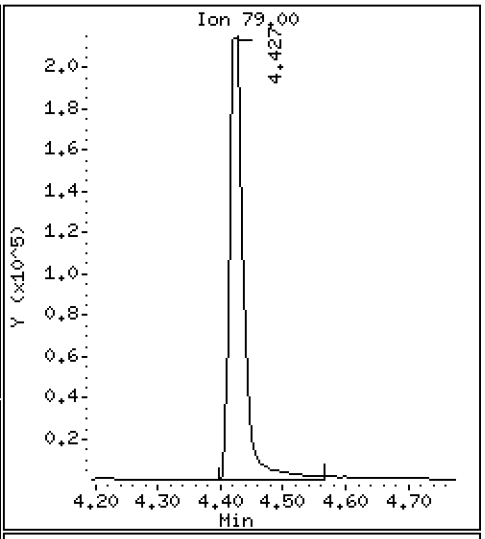
Column phase: ZB-5msi

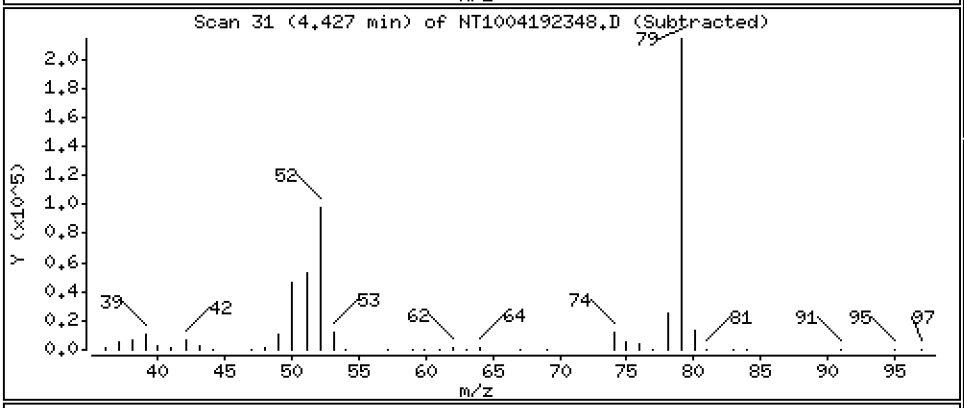
Column diameter: 0.25

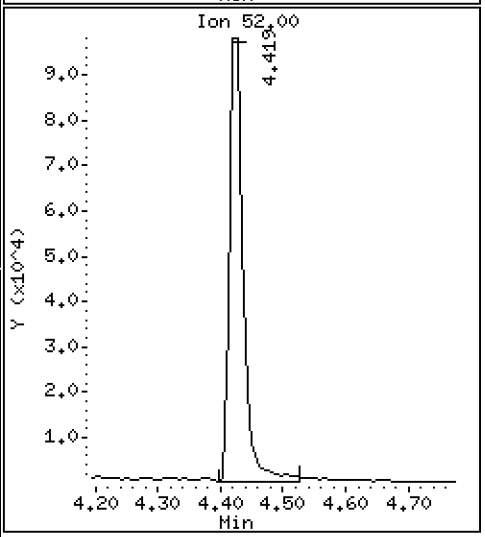
103 Pyridine

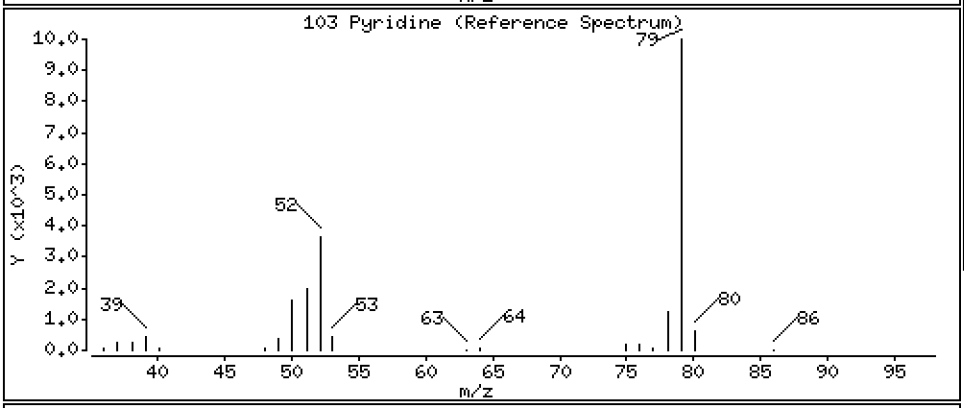
Concentration: 8.540 ug/mL

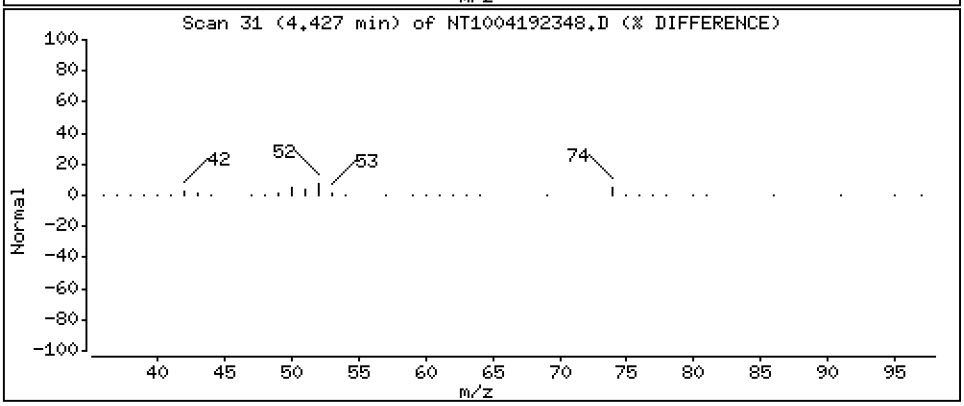












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

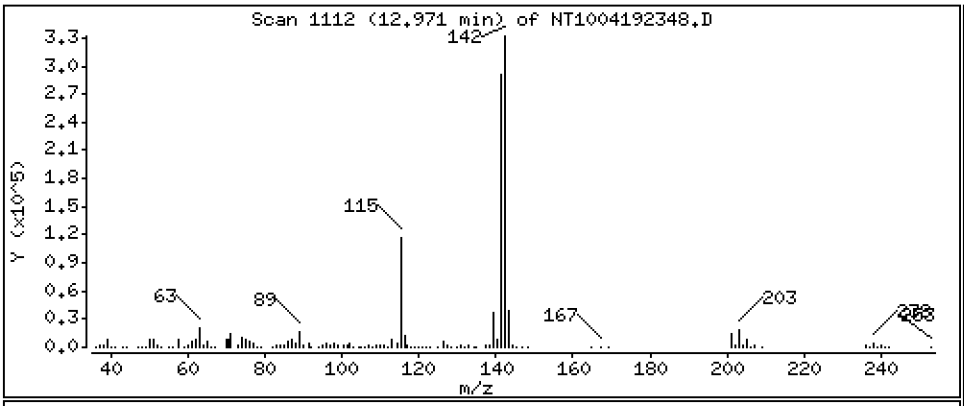
Operator: VTS

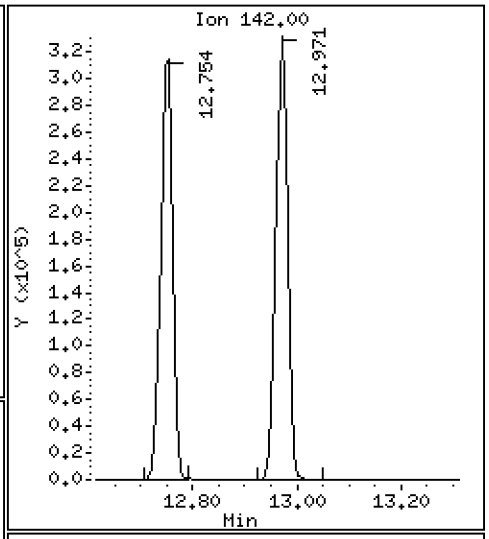
Column phase: ZB-5msi

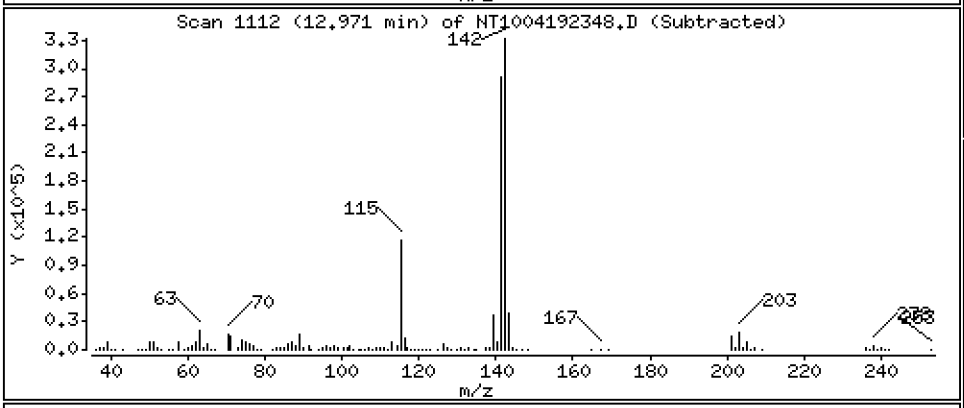
Column diameter: 0.25

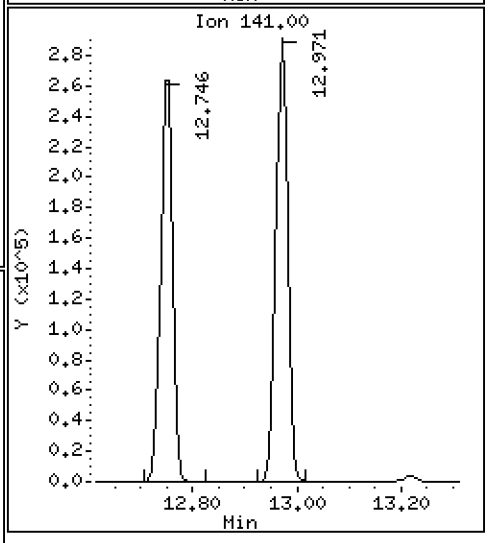
105 1-methylnaphthalene

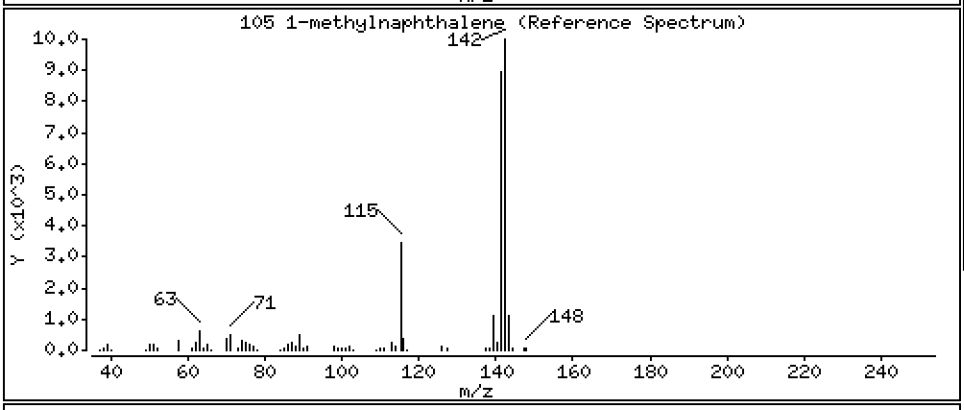
Concentration: 5.622 ug/mL

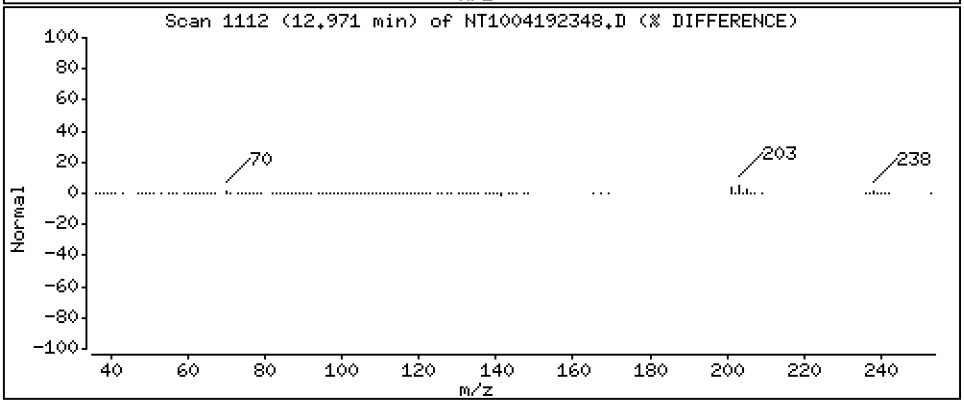












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

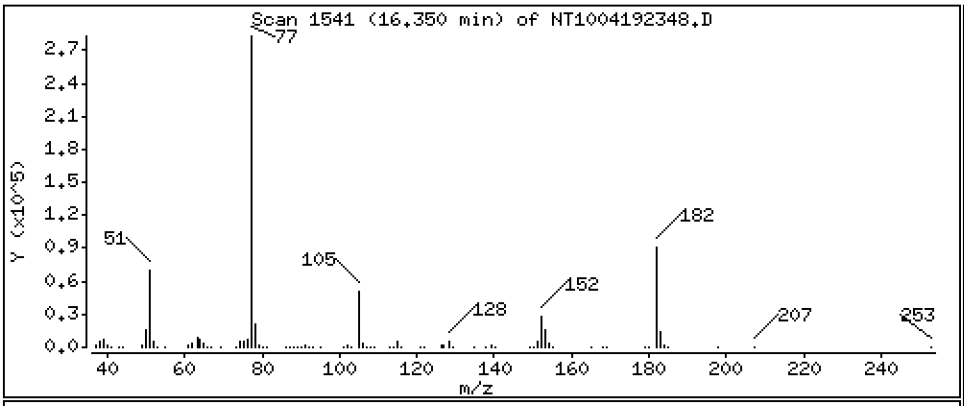
Operator: VTS

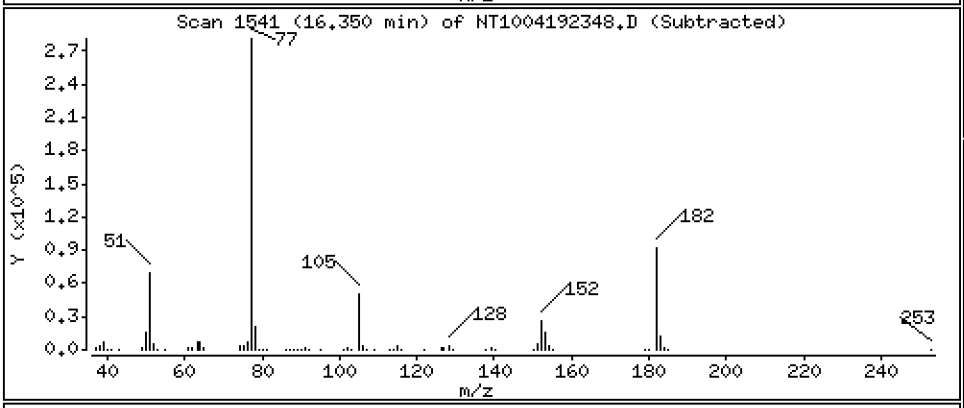
Column phase: ZB-5msi

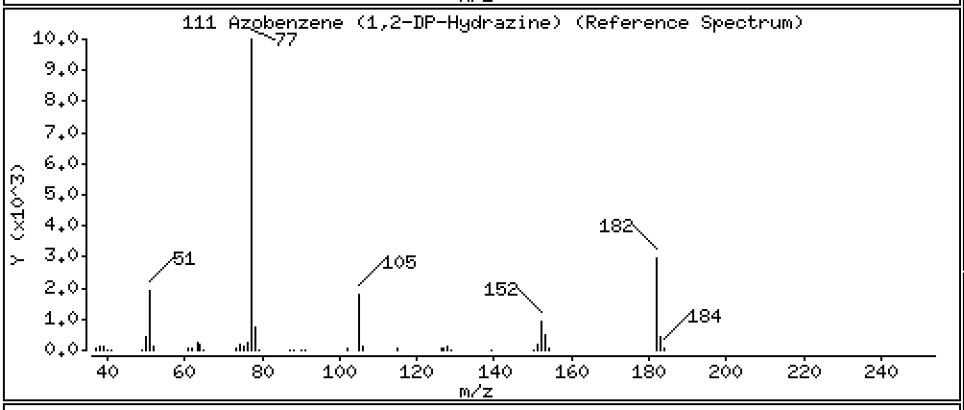
Column diameter: 0.25

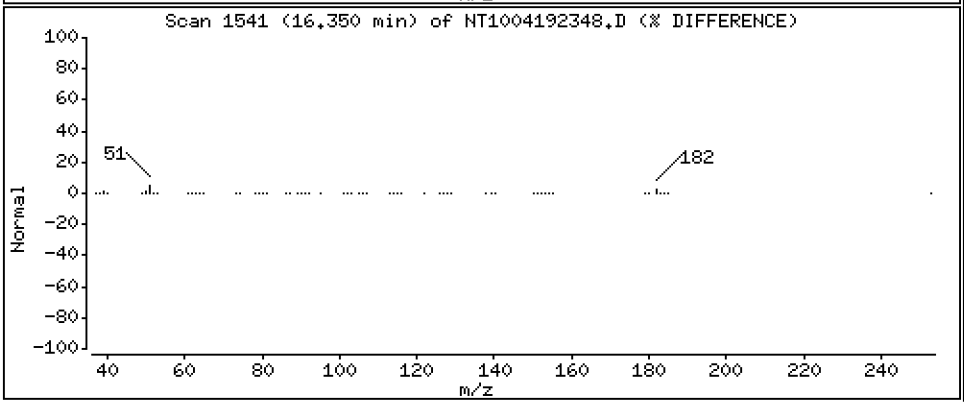
111 Azobenzene (1,2-DP-Hydrazine)

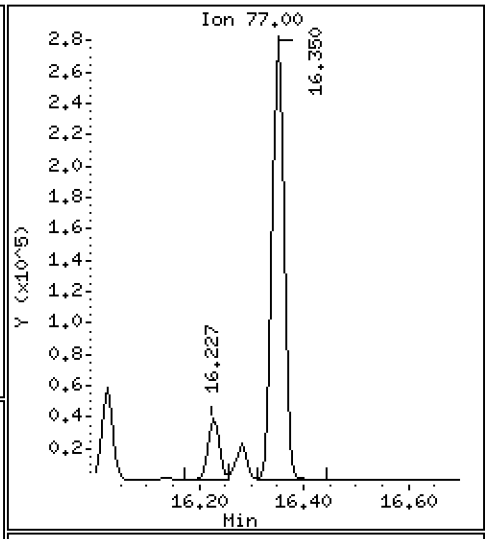
Concentration: 3.963 ug/mL

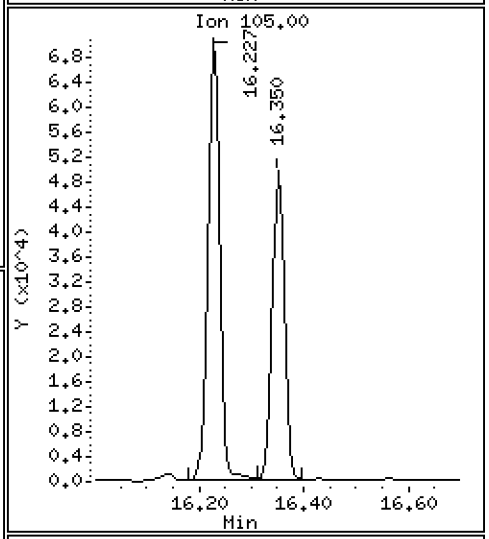


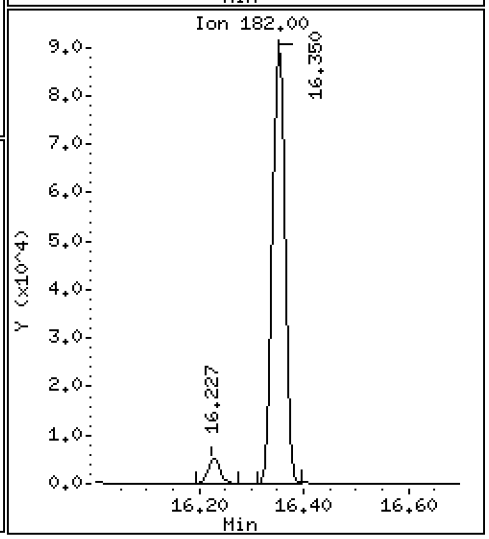












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

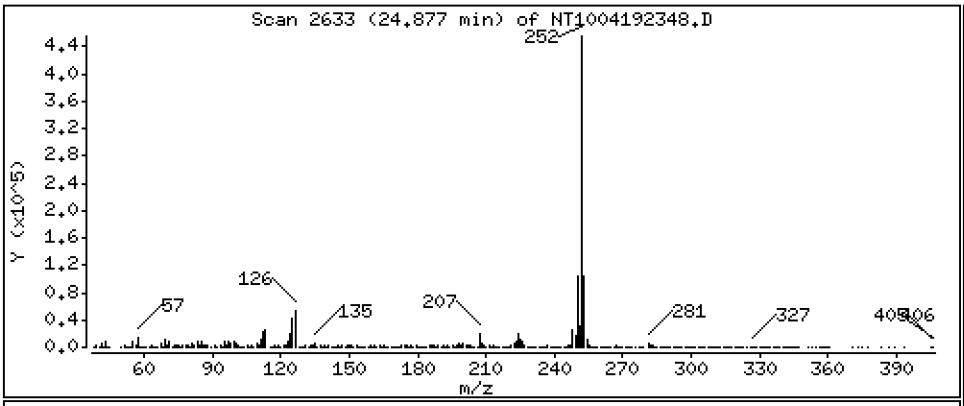
Operator: VTS

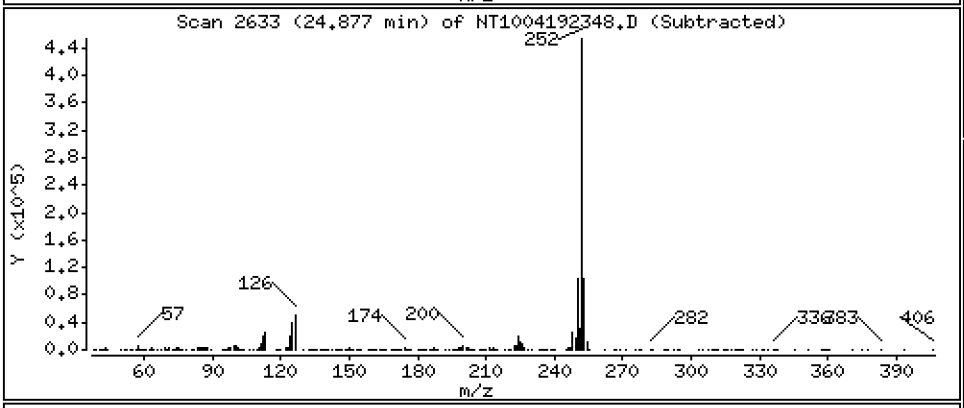
Column phase: ZB-5msi

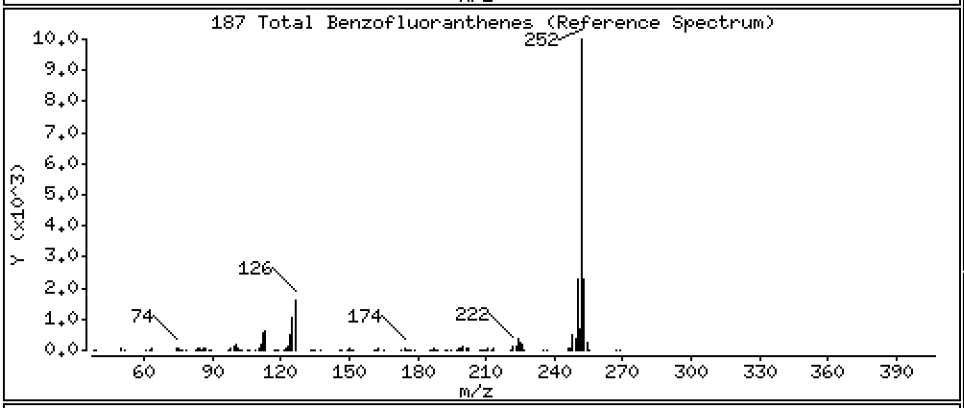
Column diameter: 0.25

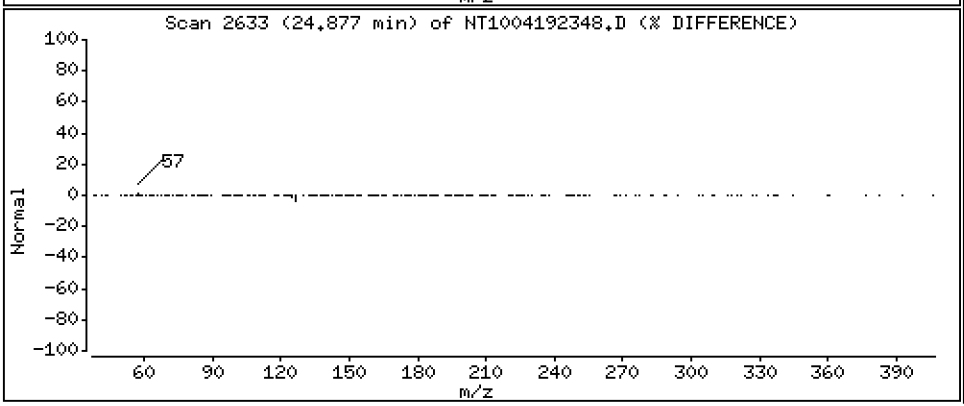
187 Total Benzofluoranthenes

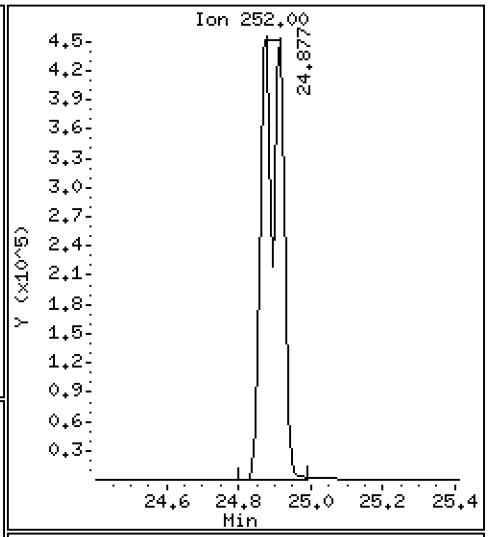
Concentration: 9.467 ug/mL

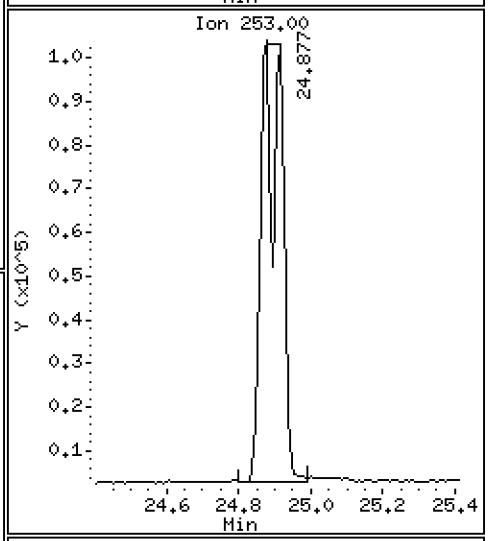


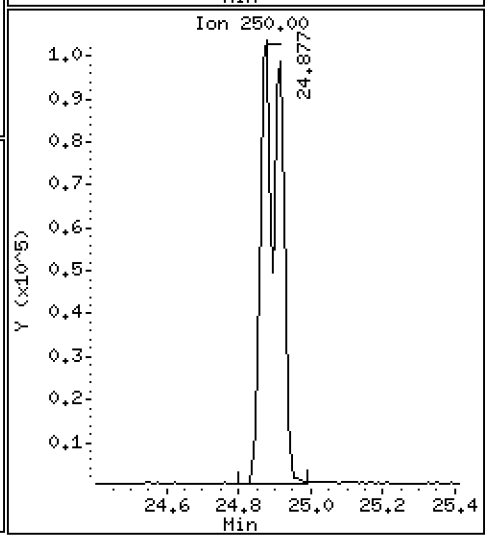












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Date : 20-APR-2023 17:12

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-CCV1

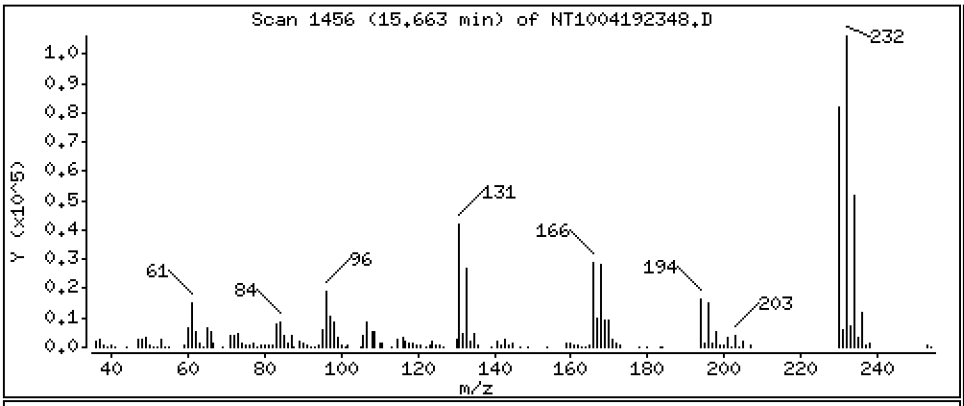
Operator: VTS

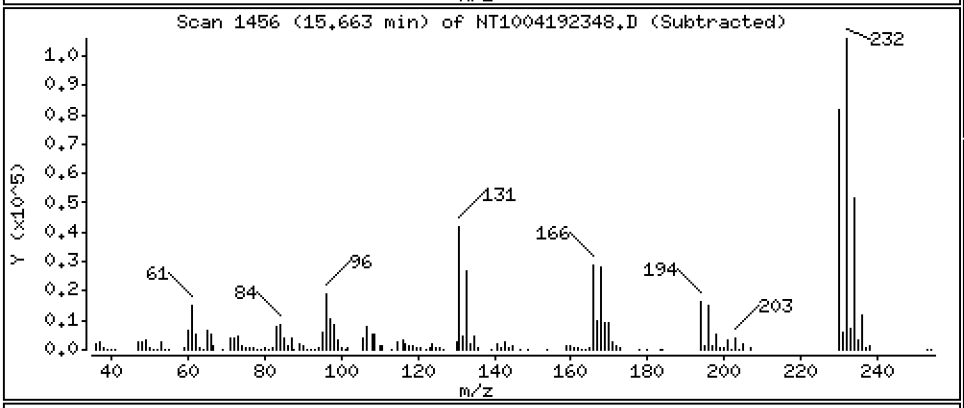
Column phase: ZB-5msi

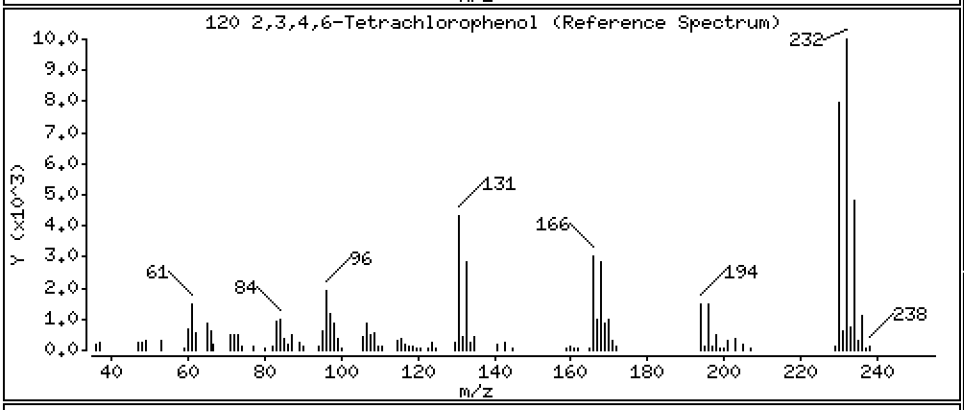
Column diameter: 0.25

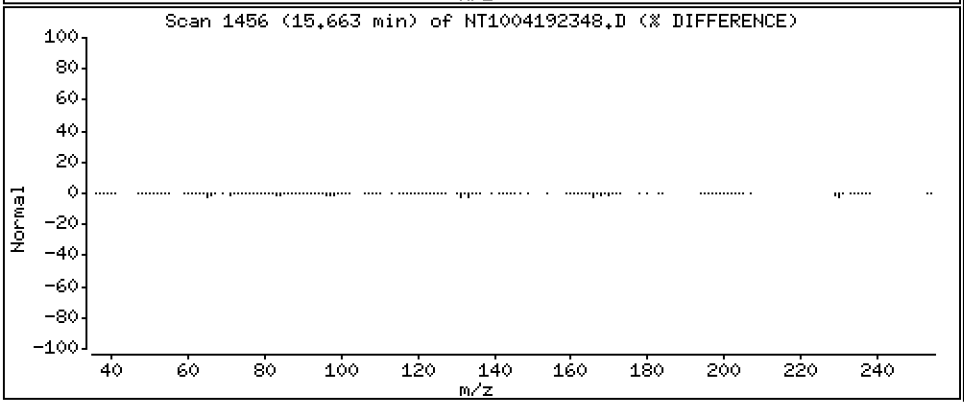
120 2,3,4,6-Tetrachlorophenol

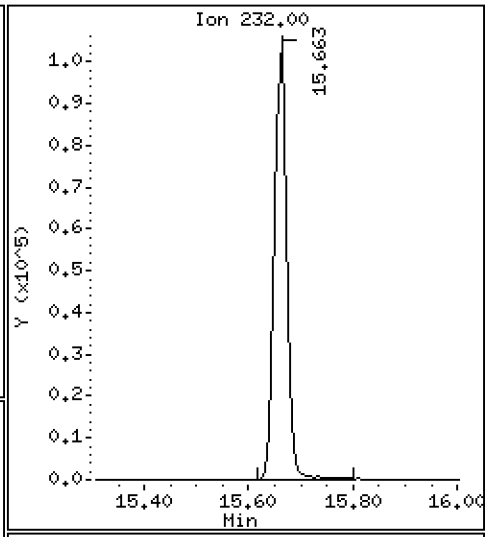
Concentration: 5.652 ug/mL

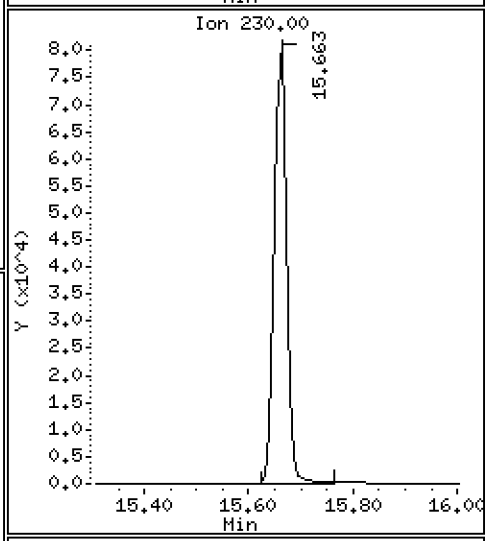


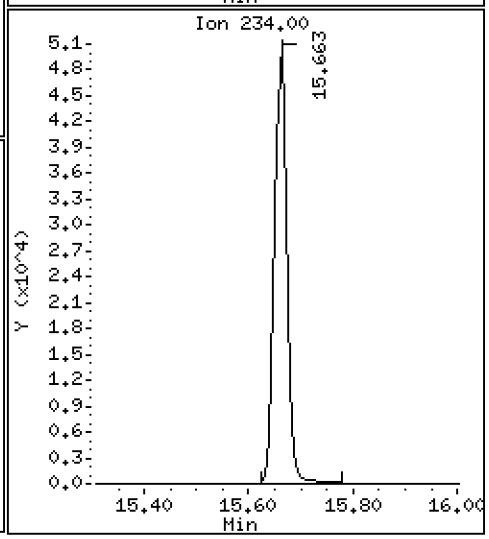












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230419B.b\NT1004192348.D
Lab Smp Id: SLD0293-CCV1
Inj Date : 20-APR-2023 17:12
Operator : VTS Inst ID: nt10.i
Smp Info : SLD0293-CCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Meth Date : 21-Apr-2023 11:46 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.612	6.612	(0.749)	283366	6.89240	6.892
$	2 Phenol-d5	99	8.219	8.219	(0.931)	363428	6.73839	6.738
	3 Phenol	94	8.242	8.235	(0.933)	252594	4.50692	4.507
$	5 2-Chlorophenol-d4	132	8.474	8.474	(0.960)	358341	7.78059	7.781
	4 Bis(2-Chloroethyl)ether	93	8.389	8.389	(0.950)	185189	4.45509	4.455
	6 2-Chlorophenol	128	8.497	8.497	(0.962)	256225	5.34164	5.342
	7 1,3-Dichlorobenzene	146	8.768	8.761	(0.993)	246056	4.85208	4.852
*	8 1,4-Dichlorobenzene-d4	152	8.830	8.830	(1.000)	135950	4.00000	
	9 1,4-Dichlorobenzene	146	8.861	8.861	(1.004)	244675	4.99456	4.995
$	10 1,2-Dichlorobenzene-d4	152	9.187	9.187	(1.040)	154510	4.67149	4.671
	12 1,2-Dichlorobenzene	146	9.218	9.211	(1.044)	236020	4.89550	4.895
	11 Benzyl alcohol	108	9.117	9.110	(1.033)	138951	5.28206	5.282
	14 2,2'-oxybis(1-Chloropropane)	121	9.413	9.413	(1.066)	72089	5.09161	5.092
	13 2-Methylphenol	108	9.350	9.343	(1.059)	198649	4.86221	4.862
	17 Hexachloroethane	117	9.801	9.801	(1.110)	77868	3.87417	3.874
	16 N-Nitroso-di-n-propylamine	70	9.669	9.669	(1.095)	141713	4.39283	4.393
	15 4-Methylphenol	108	9.622	9.622	(1.090)	208942	4.85372	4.854
$	18 Nitrobenzene-d5	82	9.925	9.925	(0.877)	218174	4.33407	4.334
	19 Nitrobenzene	77	9.964	9.964	(0.881)	215903	4.37038	4.370
	20 Isophorone	82	10.414	10.414	(0.920)	329955	5.22101	5.221
	21 2-Nitrophenol	139	10.592	10.592	(0.936)	129629	5.36546	5.365
	22 2,4-Dimethylphenol	107	10.660	10.660	(0.942)	424179	9.34821	9.348
	23 Bis(2-Chloroethoxy)methane	93	10.855	10.846	(0.959)	188679	4.46953	4.470
	24 Benzoic acid	105	10.914	10.897	(0.965)	555568	20.9744	20.97
	25 2,4-Dichlorophenol	162	11.050	11.050	(0.977)	416945	11.4826	11.48
	26 1,2,4-Trichlorobenzene	180	11.230	11.230	(0.992)	217772	5.10918	5.109
*	27 Naphthalene-d8	136	11.315	11.307	(1.000)	498724	4.00000	
	28 Naphthalene	128	11.353	11.353	(1.003)	596500	4.51486	4.515
	29 4-Chloroaniline	127	11.500	11.492	(1.016)	558475	10.8353	10.84
	30 Hexachlorobutadiene	225	11.724	11.716	(1.036)	137572	5.50839	5.508
	31 4-Chloro-3-methylphenol	107	12.475	12.467	(1.103)	382407	9.72830	9.728
	32 2-Methylnaphthalene	142	12.753	12.746	(1.127)	501861	5.26362	5.264
	33 Hexachlorocyclopentadiene	237	13.218	13.210	(0.886)	53663	1.94329	1.943

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.380	13.373	(0.897)	310136	10.5164	10.52
	35	2,4,5-Trichlorophenol	196	13.458	13.450	(0.902)	328794	10.0339	10.03
$	36	2-Fluorobiphenyl	172	13.535	13.527	(0.907)	511287	4.33184	4.332
	37	2-Chloronaphthalene	162	13.736	13.736	(0.921)	444399	4.64998	4.650
	38	2-Nitroaniline	65	14.007	14.007	(0.939)	229745	8.55798	8.558
	39	Dimethylphthalate	163	14.448	14.441	(0.968)	469349	4.84212	4.842
	40	Acenaphthylene	152	14.603	14.603	(0.979)	649381	4.36057	4.361
	41	2,6-Dinitrotoluene	165	14.580	14.580	(0.977)	220757	10.5427	10.54
*	42	Acenaphthene-d10	164	14.920	14.913	(1.000)	298378	4.00000	
	43	3-Nitroaniline	138	14.866	14.859	(0.996)	229444	9.70816	9.708
	44	Acenaphthene	153	14.990	14.982	(1.005)	400796	4.35644	4.356
	45	2,4-Dinitrophenol	184	15.075	15.067	(1.010)	237812	18.1408	18.14
	46	Dibenzofuran	168	15.315	15.307	(1.026)	669456	4.93448	4.934
	47	4-Nitrophenol	109	15.214	15.206	(1.020)	111839	7.55905	7.559
	48	2,4-Dinitrotoluene	165	15.392	15.384	(1.032)	300147	9.62567	9.626
	50	Diethylphthalate	149	15.910	15.902	(1.066)	530918	5.58252	5.583
	49	Fluorene	166	16.026	16.018	(1.074)	489266	4.58394	4.584
	51	4-Chlorophenyl-phenylether	204	16.026	16.018	(1.074)	249634	4.91834	4.918
	52	4-Nitroaniline	138	16.142	16.126	(1.082)	209790	9.84983	9.850
	53	4,6-Dinitro-2-methylphenol	198	16.226	16.219	(0.904)	319076	20.0721	20.07
	54	N-Nitrosodiphenylamine	169	16.280	16.273	(0.907)	323492	4.70106	4.701
$	55	2,4,6-Tribromophenol	330	16.566	16.558	(1.110)	106154	7.63793	7.638
	56	4-Bromophenyl-phenylether	248	17.028	17.021	(0.948)	160811	5.58620	5.586
	57	Hexachlorobenzene	284	17.338	17.330	(0.966)	169710	5.62293	5.623
	58	Pentachlorophenol	266	17.702	17.694	(0.986)	185181	10.1701	10.17
*	59	Phenanthrene-d10	188	17.957	17.949	(1.000)	514692	4.00000	
	60	Phenanthrene	178	18.003	17.996	(1.003)	644423	4.59169	4.592
	61	Anthracene	178	18.096	18.089	(1.008)	633773	4.70760	4.708
	62	Carbazole	167	18.437	18.429	(1.027)	606339	5.02608	5.026
	63	Di-n-butylphthalate	149	19.265	19.265	(1.073)	854527	5.29793	5.298
	64	Fluoranthene	202	20.410	20.402	(0.885)	766399	3.81490	3.815
	65	Pyrene	202	20.835	20.827	(0.904)	778749	3.77880	3.779
$	66	Terphenyl-d14	244	21.145	21.137	(0.917)	602664	3.89406	3.894
	67	Butylbenzylphthalate	149	22.089	22.089	(0.958)	349067	4.68428	4.684
	68	Benzo(a)anthracene	228	23.026	23.019	(0.999)	809494	4.58705	4.587
*	69	Chrysene-d12	240	23.049	23.042	(1.000)	499969	4.00000	
	70	3,3'-Dichlorobenzidine	252	22.995	22.988	(0.998)	982650	17.3838	17.38
	71	Chrysene	228	23.096	23.088	(1.002)	757569	4.39396	4.394
	72	bis(2-Ethylhexyl)phthalate	149	23.142	23.135	(0.959)	505769	4.31820	4.318
*	134	Di-n-octylphthalate-d4	153	24.126	24.126	(1.000)	798634	4.00000	
	73	Di-n-octylphthalate	149	24.141	24.133	(1.001)	926070	4.43102	4.431
	74	Benzo(b)fluoranthene	252	24.876	24.861	(0.972)	901127	4.69866	4.699
	75	Benzo(k)fluoranthene	252	24.915	24.908	(0.973)	951614	4.88656	4.887
	76	Benzo(a)pyrene	252	25.496	25.481	(0.996)	805655	4.69864	4.699
*	77	Perylene-d12	264	25.604	25.589	(1.000)	591650	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.123	28.092	(1.098)	886925	4.06575	4.066
	79	Dibenzo(a,h)anthracene	278	28.131	28.116	(1.099)	760187	4.19740	4.197
	80	Benzo(g,h,i)perylene	276	28.846	28.822	(1.127)	686092	3.63422	3.634
	90	N-Nitrosodimethylamine	74	4.411	4.411	(0.500)	217936	8.30893	8.309
	91	Aniline	93	8.297	8.289	(0.940)	456682	7.95233	7.952
	93	Benzidine	184	20.665	20.657	(0.897)	628553	7.61692	7.617
	103	Pyridine	79	4.426	4.426	(0.501)	344013	8.54000	8.540
	105	1-methylnaphthalene	142	12.970	12.962	(1.146)	491077	5.62154	5.622
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.350	16.350	(1.096)	421056	3.96338	3.963

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	24.876	24.908	(0.972)	1752945	9.46658	9.467
120 2,3,4,6-Tetrachlorophenol	232	15.662	15.655	(1.050)	176132	5.65181	5.652

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192348.D
Lab Smp Id: SLD0293-CCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Misc Info:

Calibration Date: 20-APR-2023
Calibration Time: 07:41
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	129725	64863	259450	135950	4.80
27 Naphthalene-d8	475671	237836	951342	498724	4.85
42 Acenaphthene-d10	277889	138945	555778	298378	7.37
59 Phenanthrene-d10	485346	242673	970692	514692	6.05
69 Chrysene-d12	453075	226538	906150	499969	10.35
134 Di-n-octylphthala	697265	348633	1394530	798634	14.54
77 Perylene-d12	538138	269069	1076276	591650	9.94

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.83	8.33	9.33	8.83	-0.00
27 Naphthalene-d8	11.31	10.81	11.81	11.32	0.07
42 Acenaphthene-d10	14.91	14.41	15.41	14.92	0.05
59 Phenanthrene-d10	17.95	17.45	18.45	17.96	0.04
69 Chrysene-d12	23.04	22.54	23.54	23.05	0.03
134 Di-n-octylphthala	24.13	23.63	24.63	24.13	-0.00
77 Perylene-d12	25.59	25.09	26.09	25.60	0.06

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

REVIEW SUMMARY FOR FILE - NT1004192348.D

Lab ID: SLD0293-CCV1
nt10.i, 20230419B.b\ABN.m,   20-APR-2023 17:12

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1004192333.D

On Column LOD for nt10.i, 20230419B.b\ABN.m, ICAL.sub = 0.0000

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

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GC00046
Lab File ID:	NT1004192334.D	Calibration Date:	03/15/2023
Sequence:	SLD0293	Injection Date:	04/20/23
Lab Sample ID:	SLD0293-LCV1	Injection Time:	08:19
Sequence Name:	ABN 0.5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	0.50000	0.4	1.6490140	1.3614930		-17.4	+/-50
4-Methylphenol	A	0.50000	0.4	1.2665770	1.1348570		-10.4	+/-50
Naphthalene	A	0.50000	0.5	1.0596590	0.9806788		-7.5	+/-50
2-Methylnaphthalene	A	0.50000	0.5	0.7647129	0.7953181		4.0	+/-50
Acenaphthylene	A	0.50000	0.4	1.9964080	1.7913710		-10.3	+/-50
Dimethylphthalate	A	0.50000	0.5	1.2994310	1.3151040		1.2	+/-50
Acenaphthene	A	0.50000	0.4	1.2333460	1.0777400		-12.6	+/-50
Dibenzofuran	A	0.50000	0.5	1.8187540	1.7457680		-4.0	+/-50
Fluorene	A	0.50000	0.5	1.4308680	1.3172050		-7.9	+/-50
Phenanthrene	A	0.50000	0.5	1.0907130	1.0580660		-3.0	+/-50
Anthracene	A	0.50000	0.5	1.0462760	0.9681667		-7.5	+/-50
Fluoranthene	A	0.50000	0.4	1.6072690	1.1943700		-25.7	+/-50
Pyrene	A	0.50000	0.4	1.6487720	1.2880640		-21.9	+/-50
Butylbenzylphthalate	A	0.50000	0.4	0.5292894	0.5197007		-10.4	+/-50
Benzo(a)anthracene	A	0.50000	0.5	1.4118770	1.3003010		-7.9	+/-50
Chrysene	A	0.50000	0.4	1.3793780	1.1900810		-13.7	+/-50
bis(2-Ethylhexyl)phthalate	A	0.50000	0.4	0.5248968	0.4934661		-15.7	+/-50
Benzofluoranthenes, Total	A	1.0000	1.0	1.2519020	1.2281500		-1.9	+/-50
Benzo(a)pyrene	A	0.50000	0.5	1.1592370	1.1246650		-3.0	+/-50
Indeno(1,2,3-cd)pyrene	A	0.50000	0.4	1.4748270	1.2077570		-18.1	+/-50
Dibenzo(a,h)anthracene	A	0.50000	0.4	1.2244340	0.9891780		-19.2	+/-50
Benzo(g,h,i)perylene	A	0.50000	0.4	1.2763410	0.9037577		-29.2	+/-50
2-Fluorophenol	A	0.75000	0.671	1.2096460	1.0818320		-10.6	+/-50
Phenol-d5	A	0.75000	0.595	1.5868760	1.2594750		-20.6	+/-50
2-Chlorophenol-d4	A	0.75000	0.676	1.3550800	1.2217420		-9.8	+/-50
1,2-Dichlorobenzene-d4	A	0.50000	0.443	0.9731556	0.8614445		-11.5	+/-50
Nitrobenzene-d5	A	0.50000	0.419	0.4037447	0.3381021		-16.3	+/-50
2-Fluorobiphenyl	A	0.50000	0.436	1.5822890	1.3791730		-12.8	+/-50
2,4,6-Tribromophenol	A	0.75000	0.632	0.1585901	0.1585977		-15.7	+/-50
p-Terphenyl-d14	A	0.50000	0.404	1.2381950	1.0004830		-19.2	+/-50

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192334.D

Date : 20-APR-2023 08:19

Client ID:

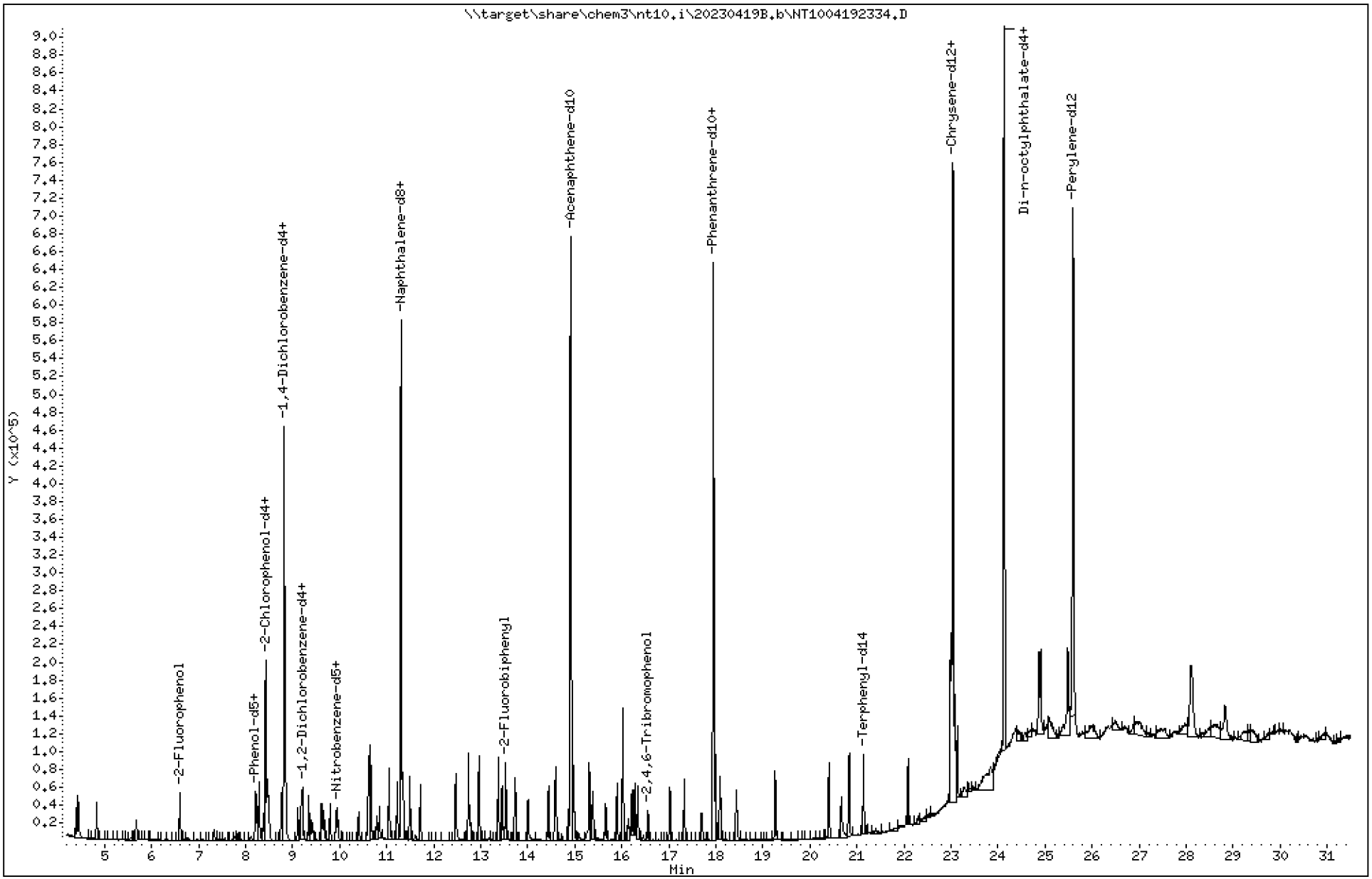
Instrument: nt10.i

Sample Info: SLD0293-LCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

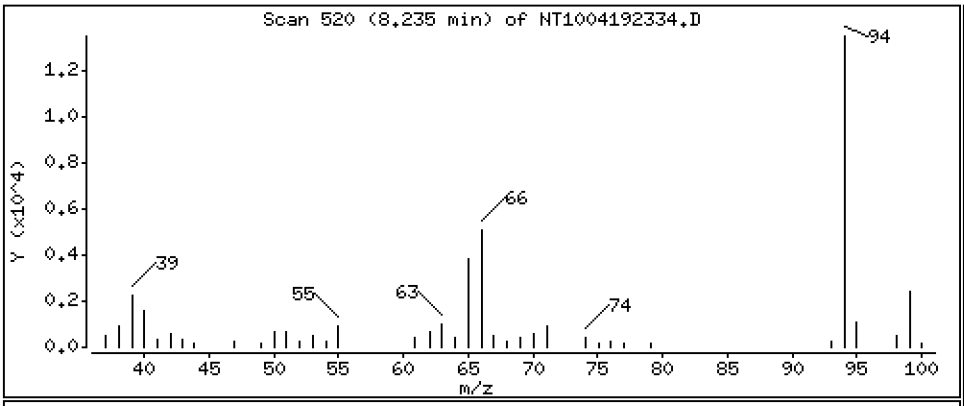
Operator: VTS

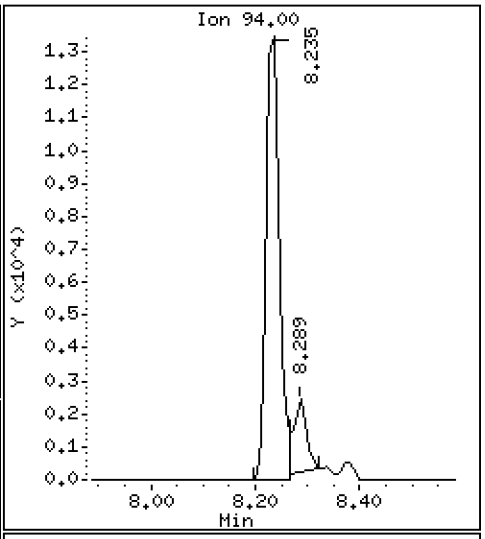
Column phase: ZB-5msi

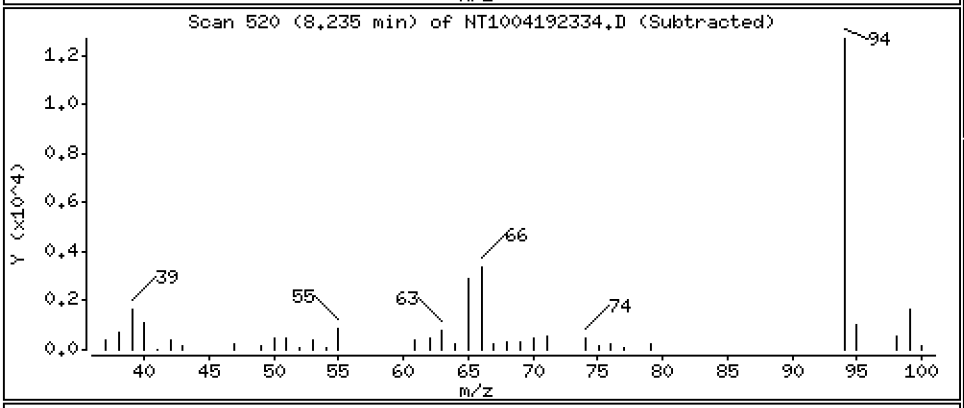
Column diameter: 0.25

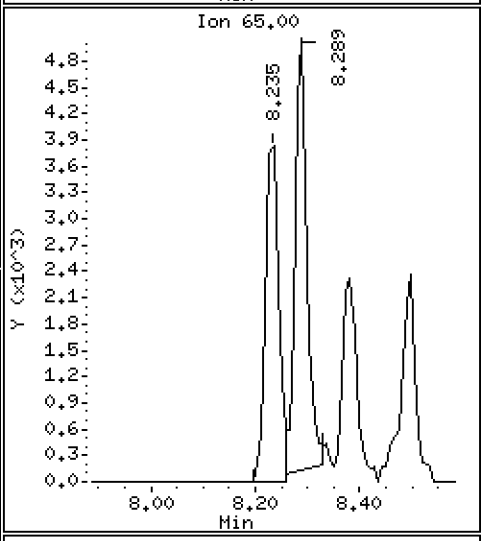
3 Phenol

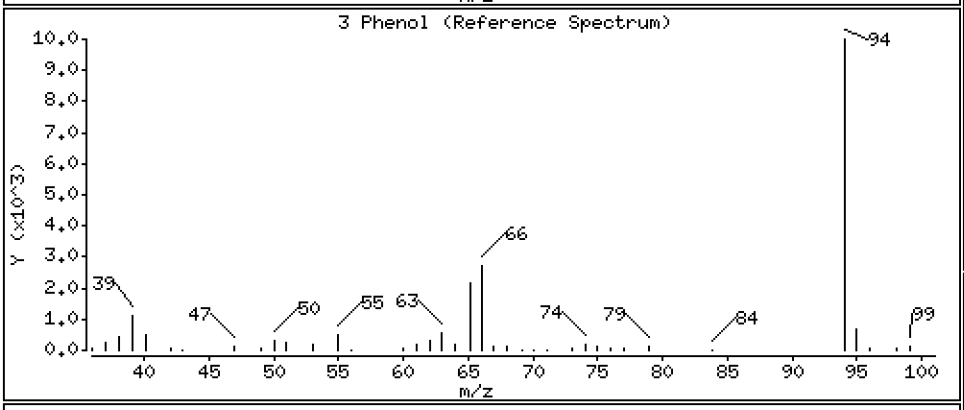
Concentration: 0.4128 ug/mL

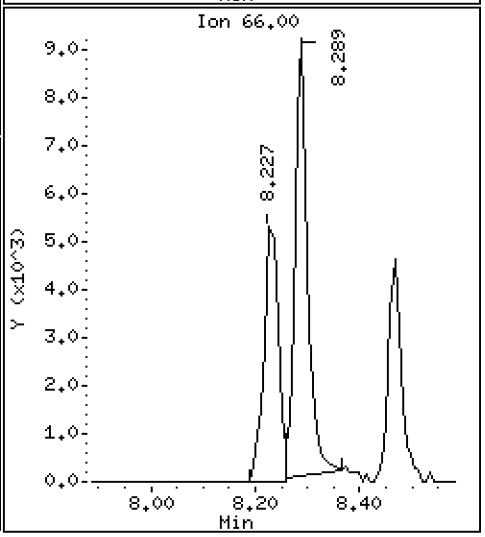


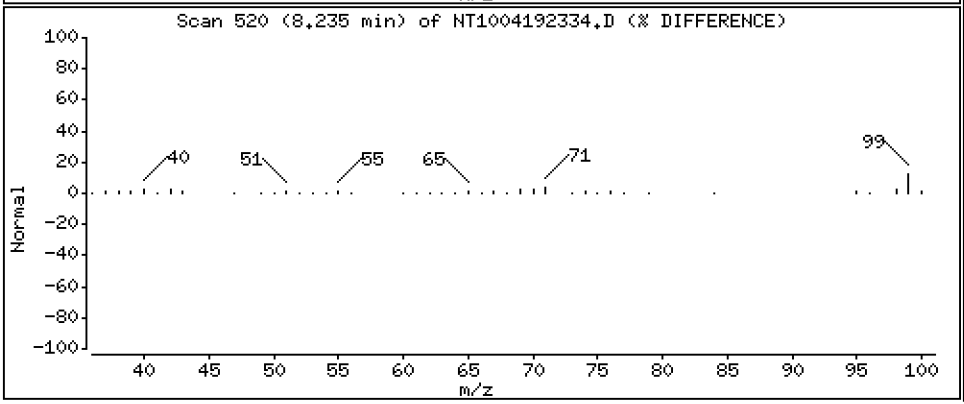












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

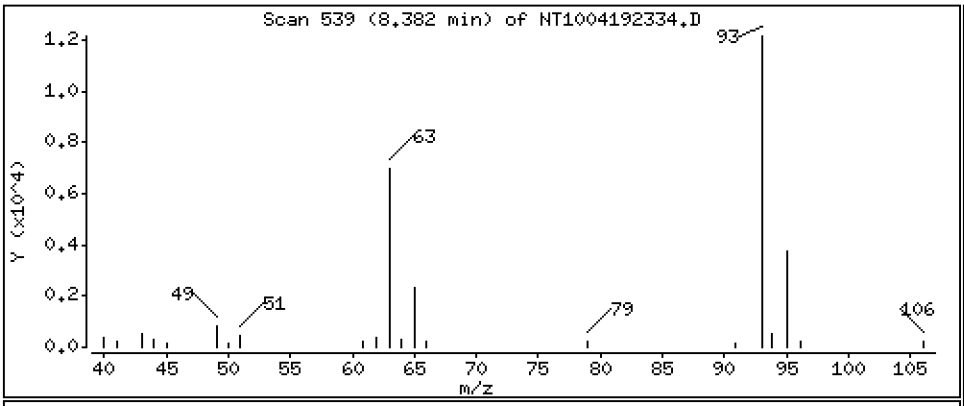
Operator: VTS

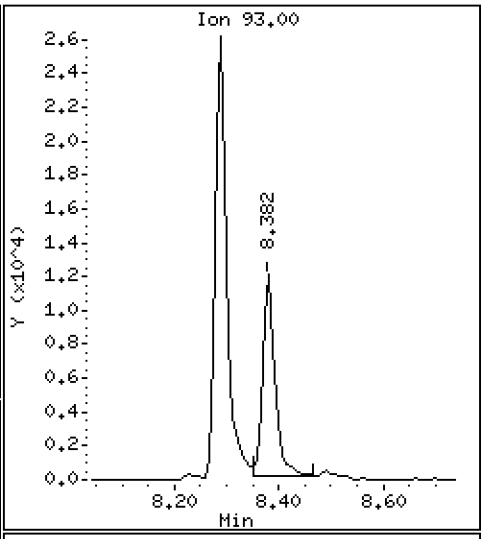
Column phase: ZB-5msi

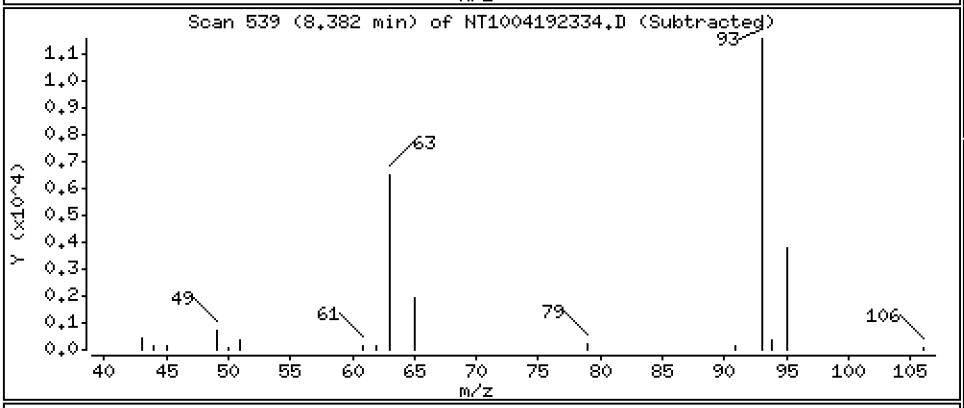
Column diameter: 0.25

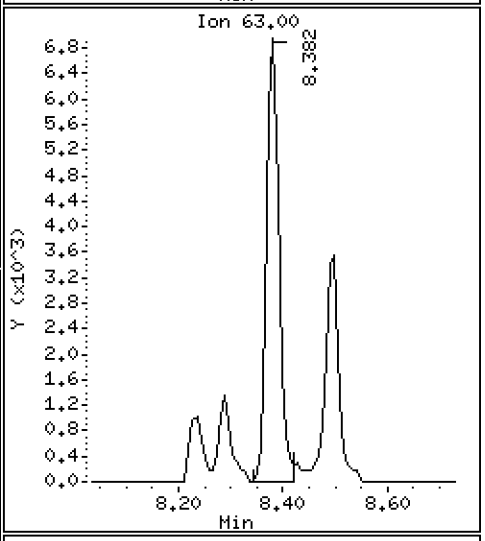
4 Bis(2-Chloroethyl)ether

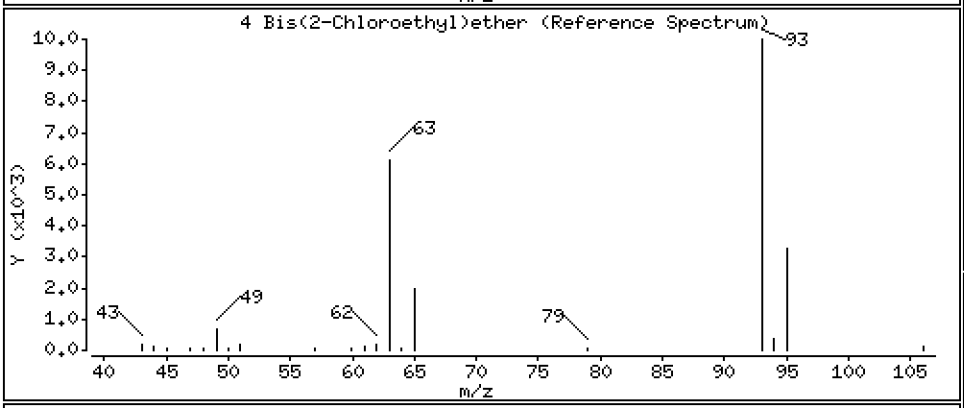
Concentration: 0.4707 ug/mL

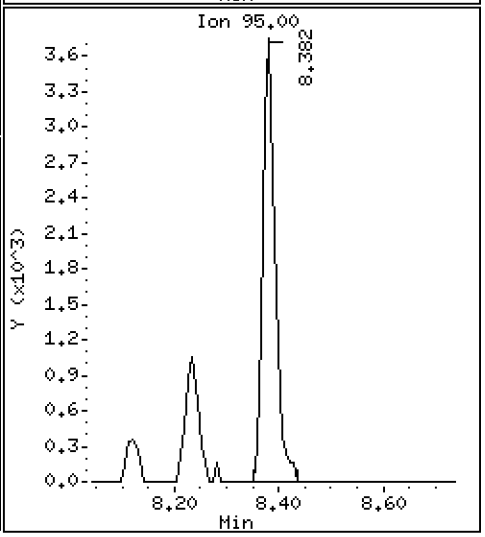


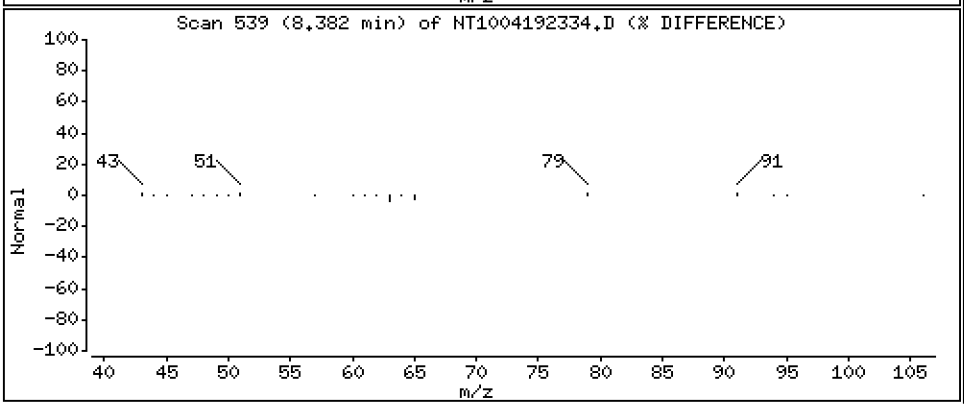












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

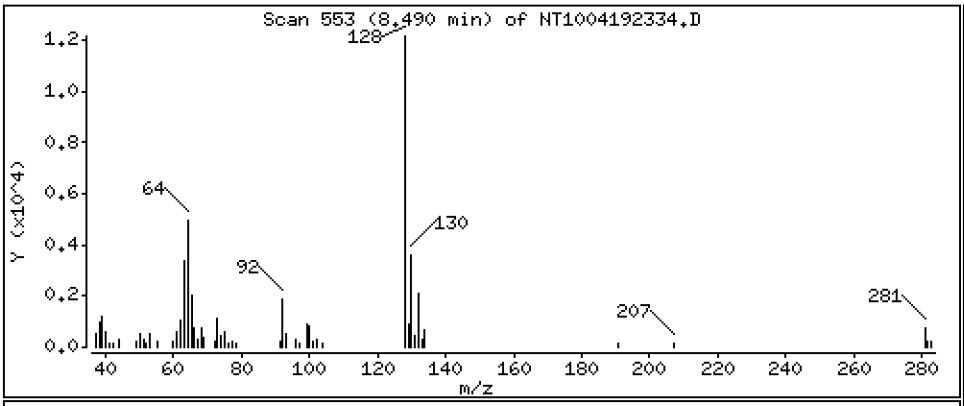
Operator: VTS

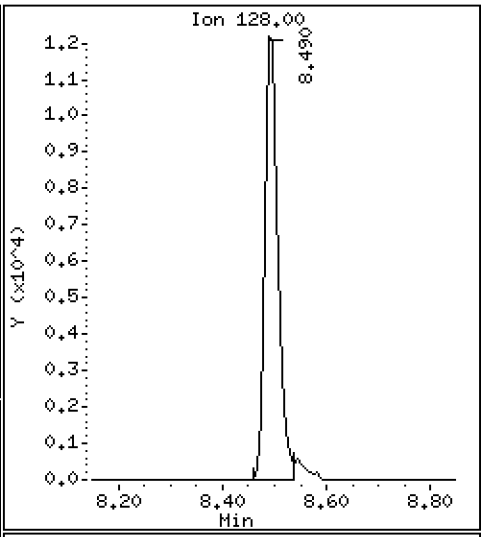
Column phase: ZB-5msi

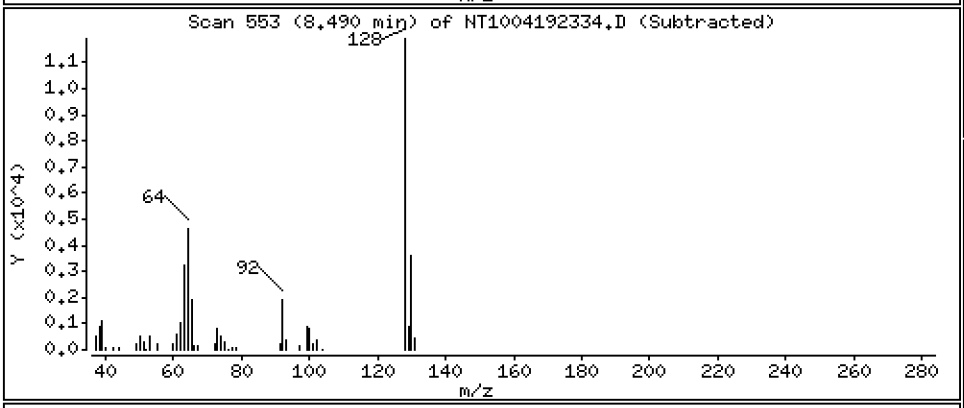
Column diameter: 0.25

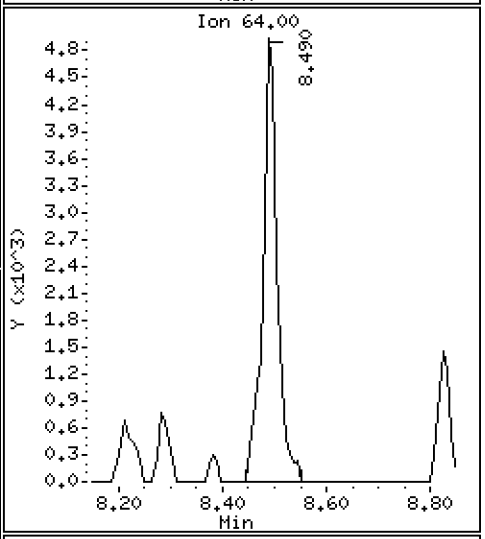
6 2-Chlorophenol

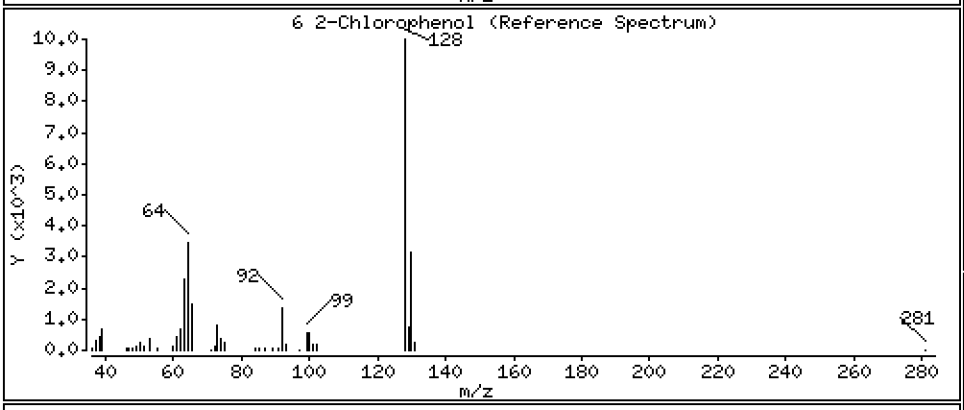
Concentration: 0.4523 ug/mL

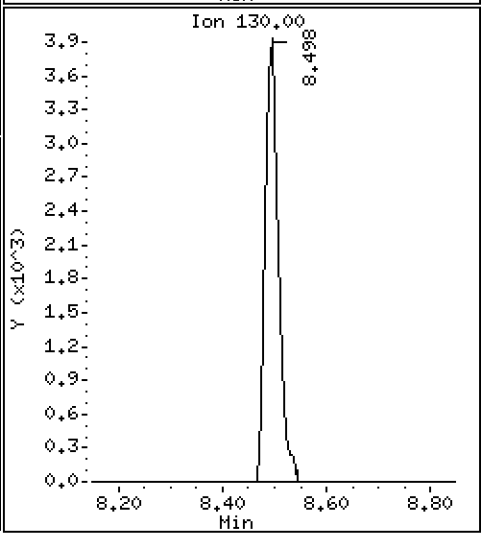


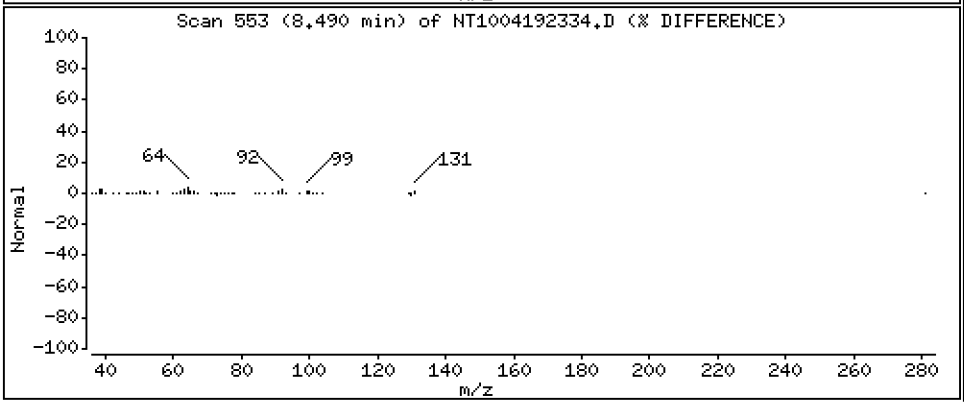












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

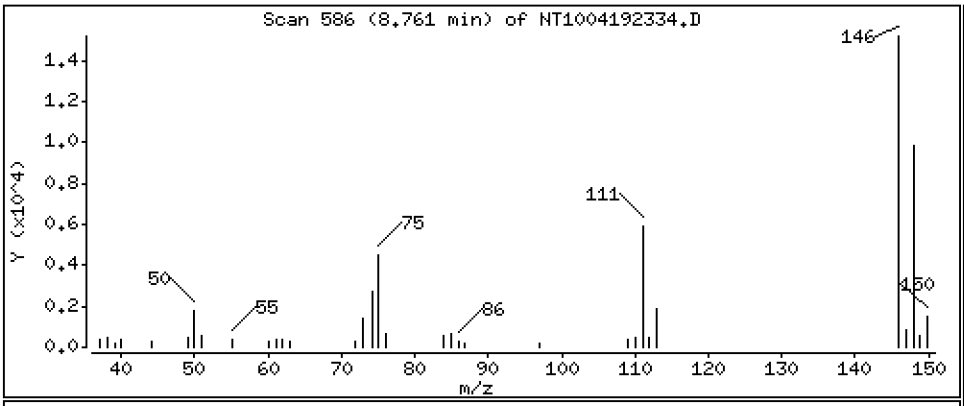
Operator: VTS

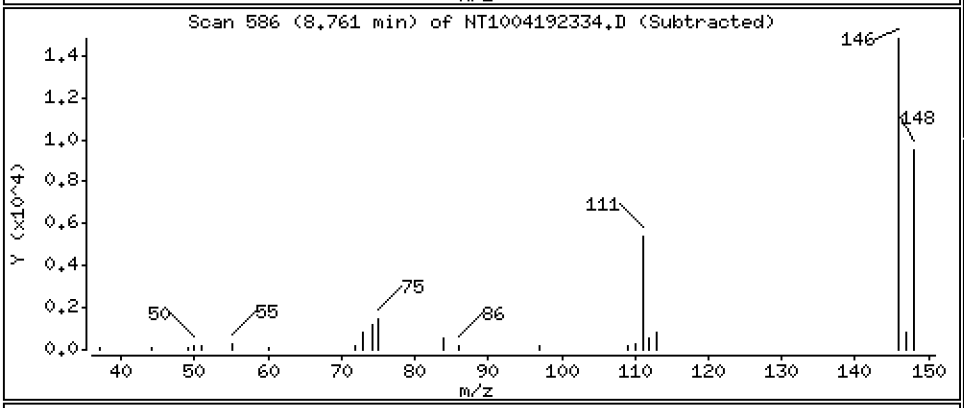
Column phase: ZB-5msi

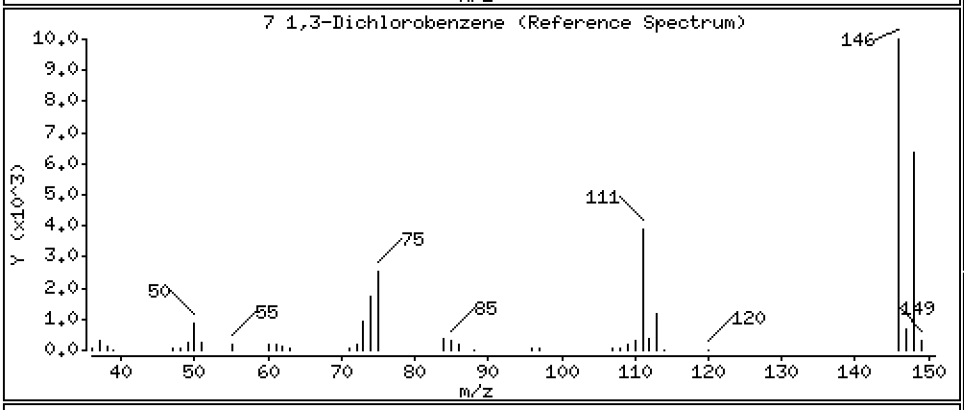
Column diameter: 0.25

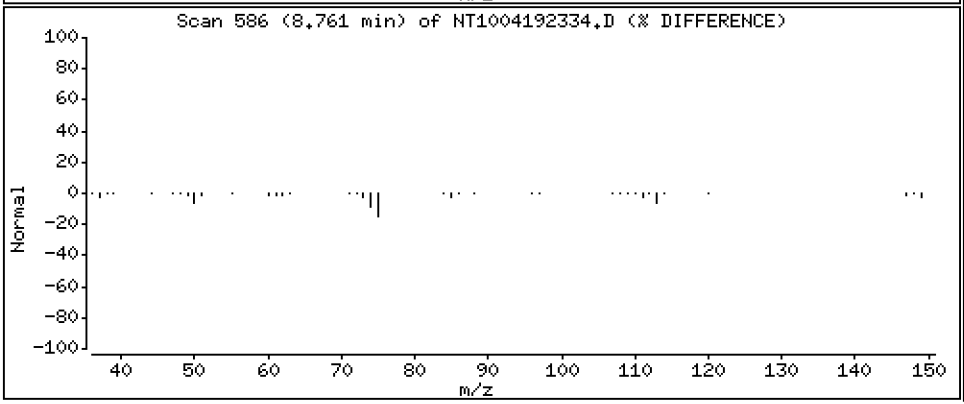
7 1,3-Dichlorobenzene

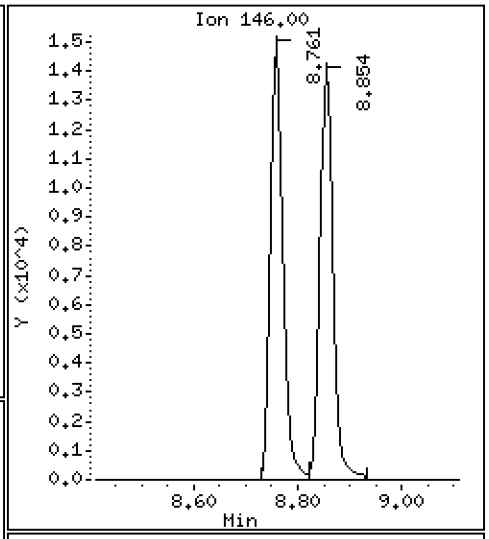
Concentration: 0.4999 ug/mL

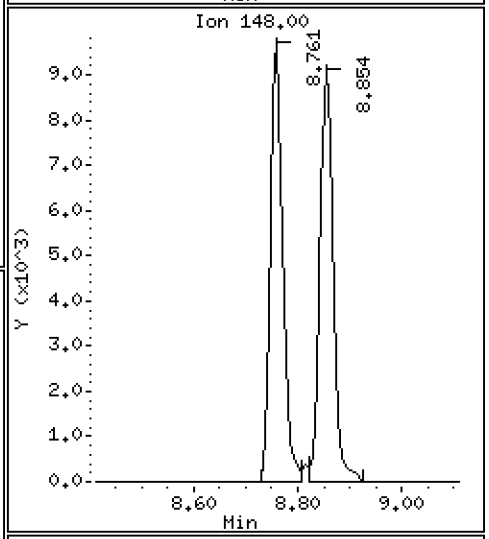


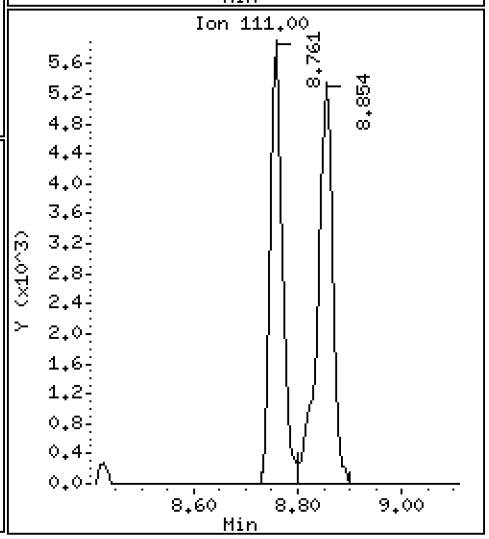












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

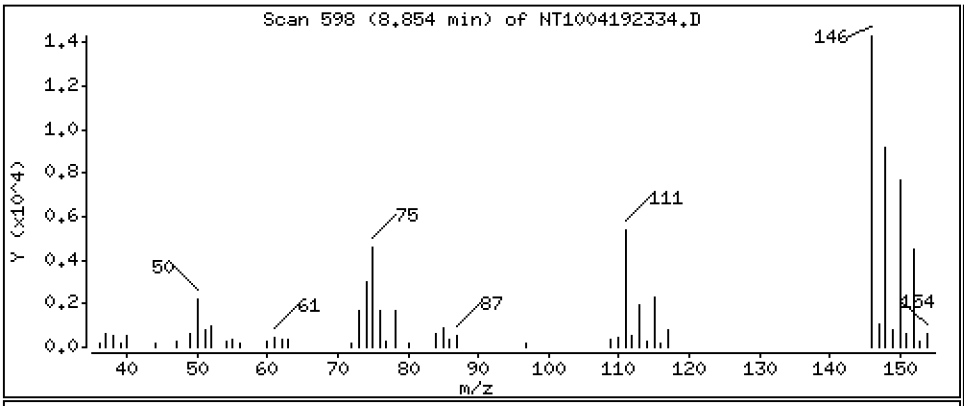
Operator: VTS

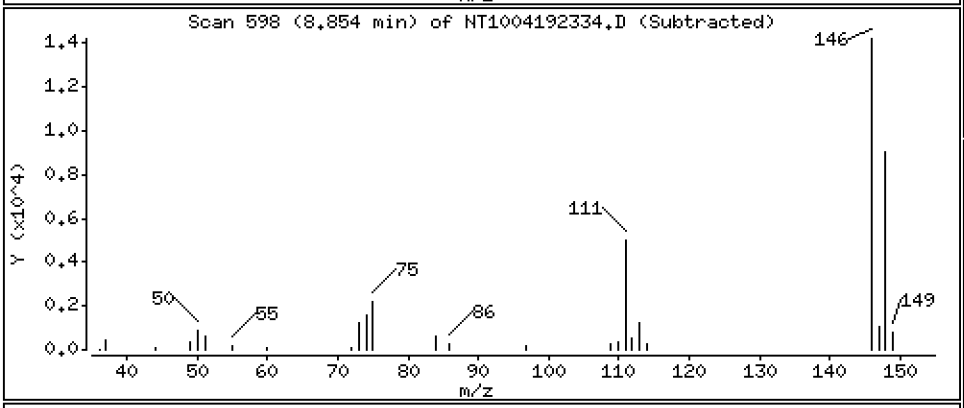
Column phase: ZB-5msi

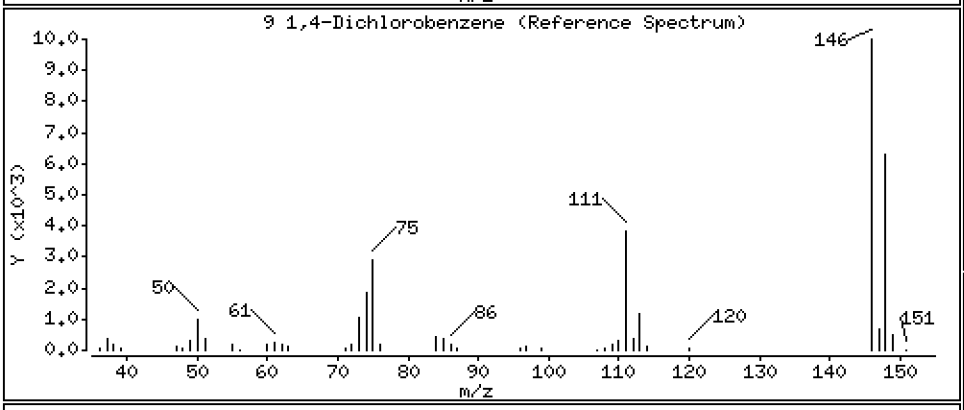
Column diameter: 0.25

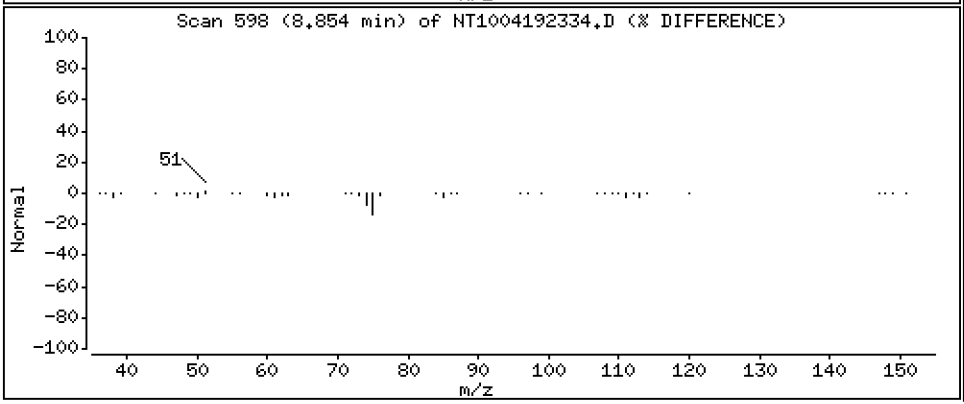
9 1,4-Dichlorobenzene

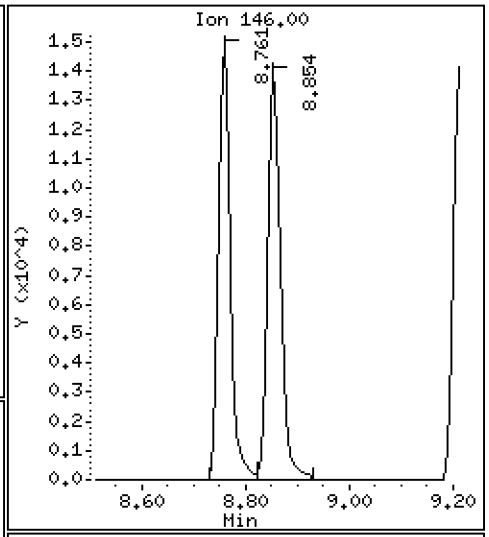
Concentration: 0.4888 ug/mL

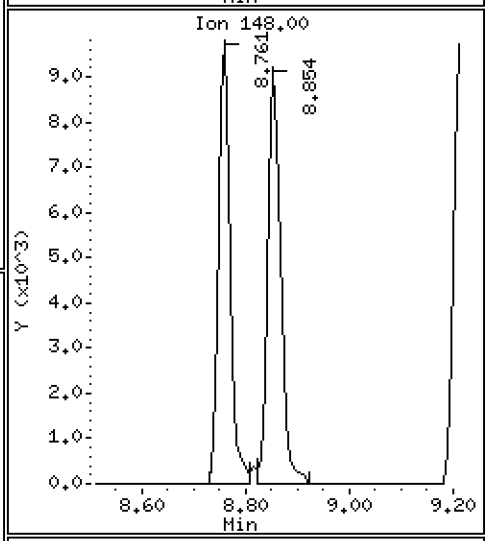


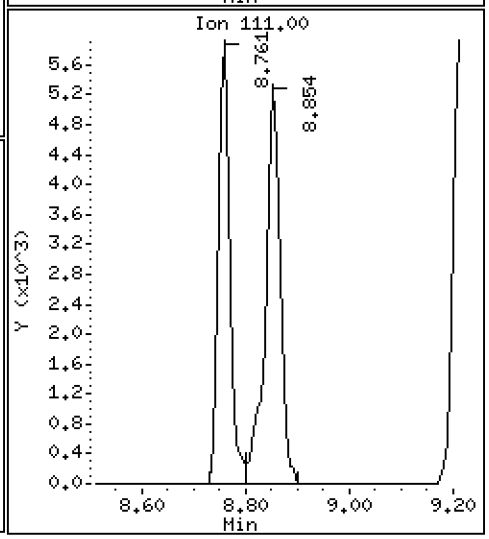












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

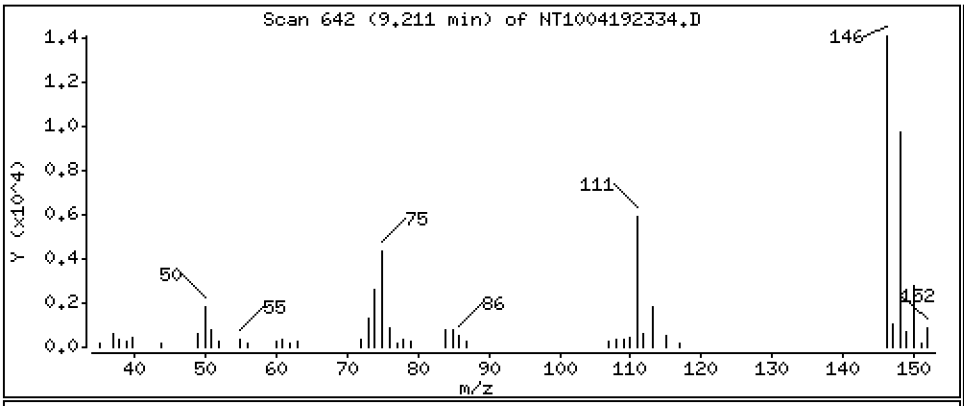
Operator: VTS

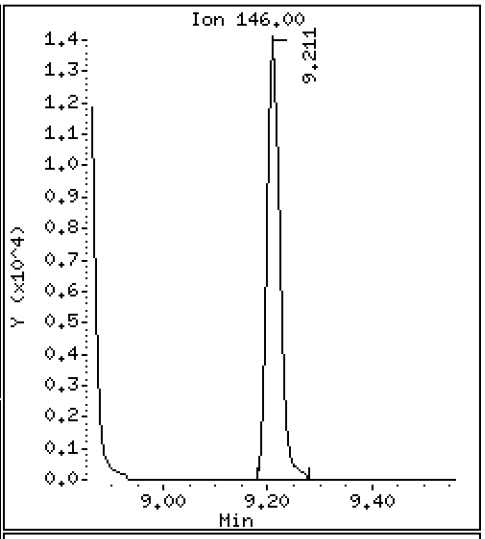
Column phase: ZB-5msi

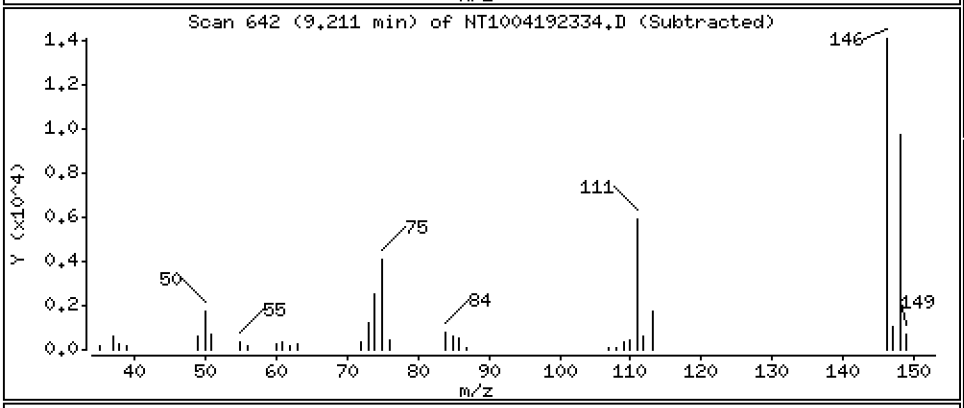
Column diameter: 0.25

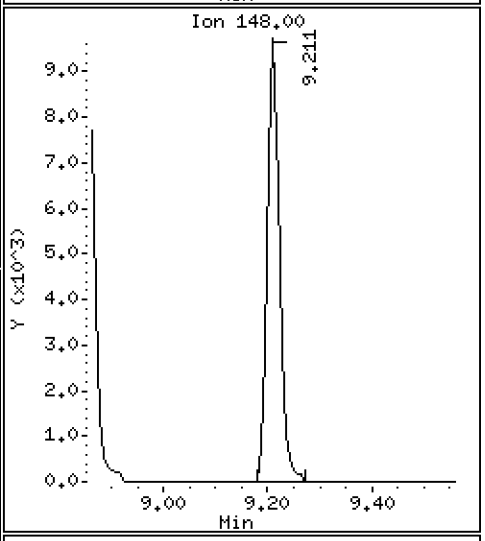
12 1,2-Dichlorobenzene

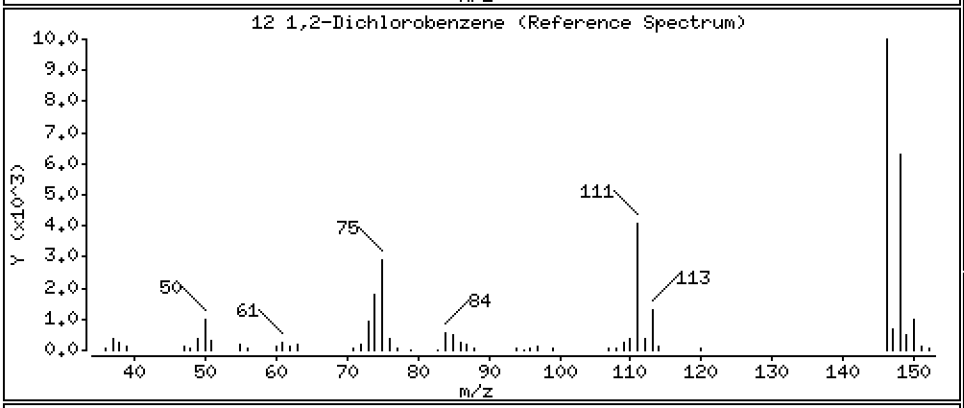
Concentration: 0.4833 ug/mL

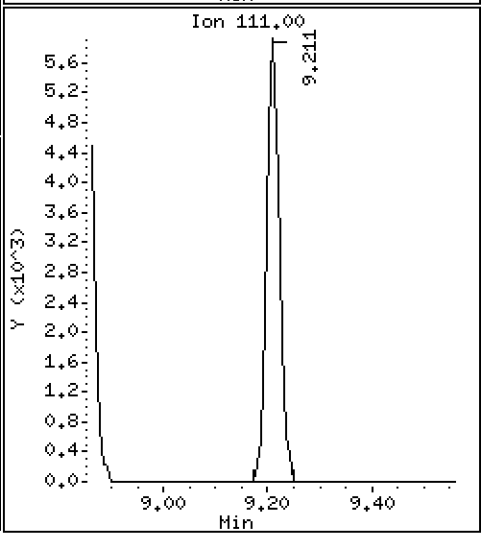


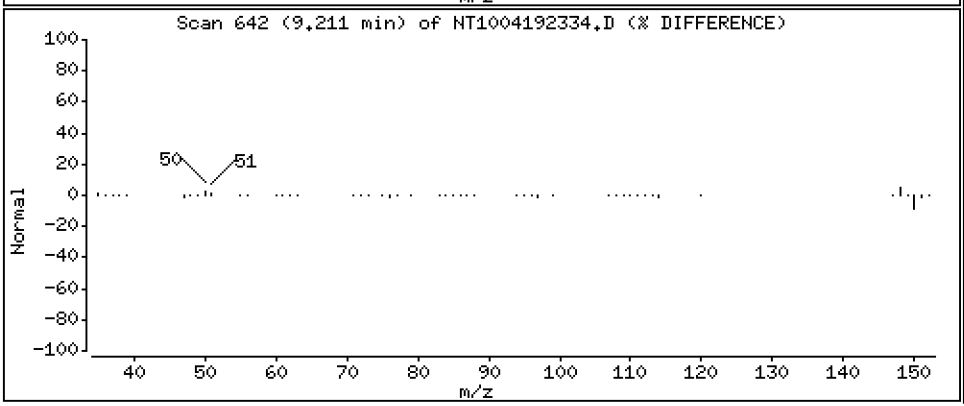












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

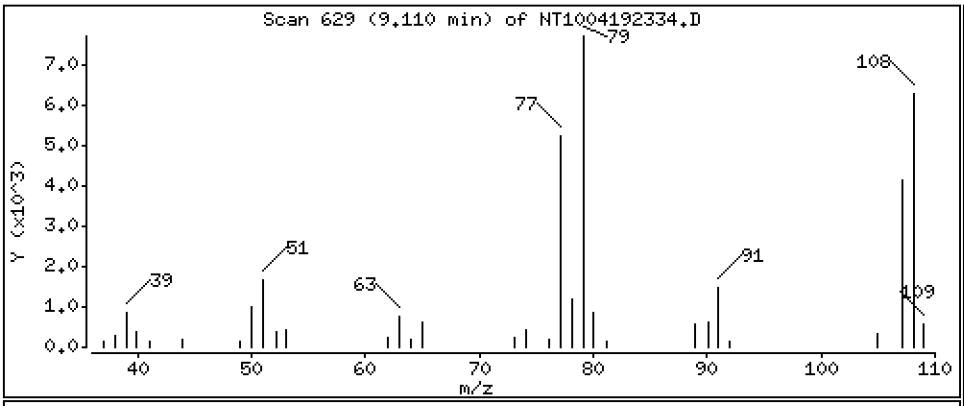
Operator: VTS

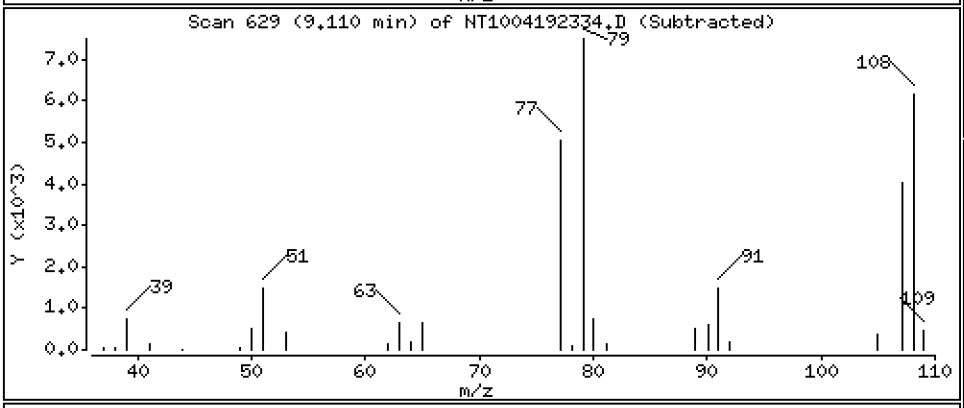
Column phase: ZB-5msi

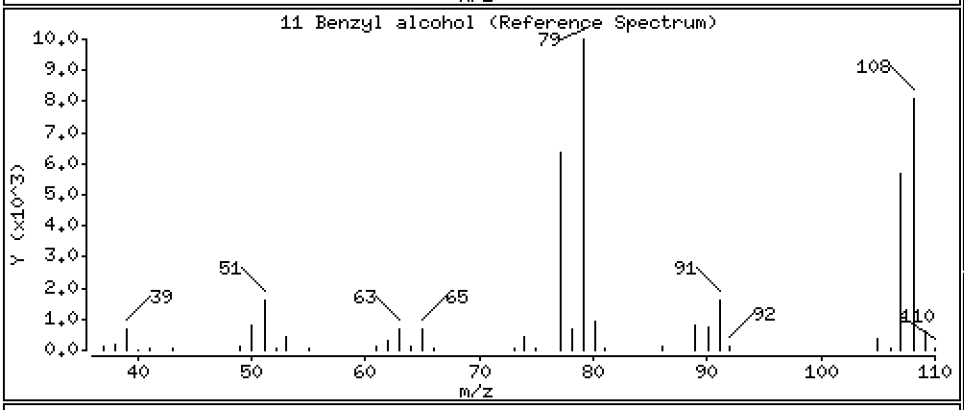
Column diameter: 0.25

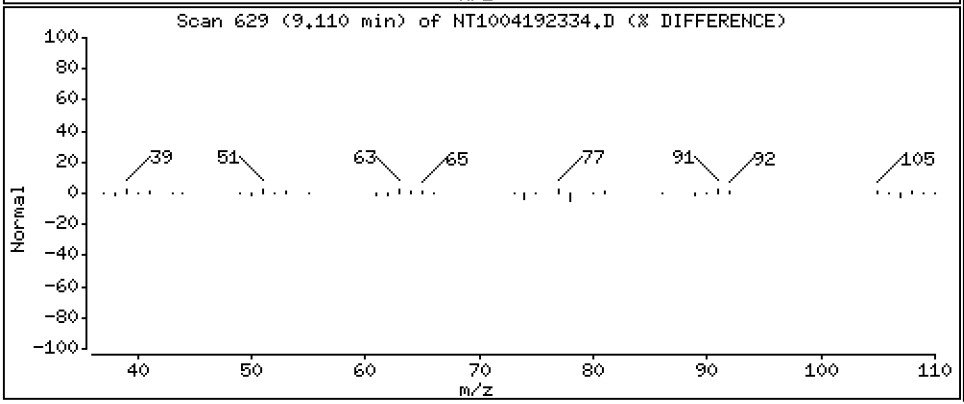
11 Benzyl alcohol

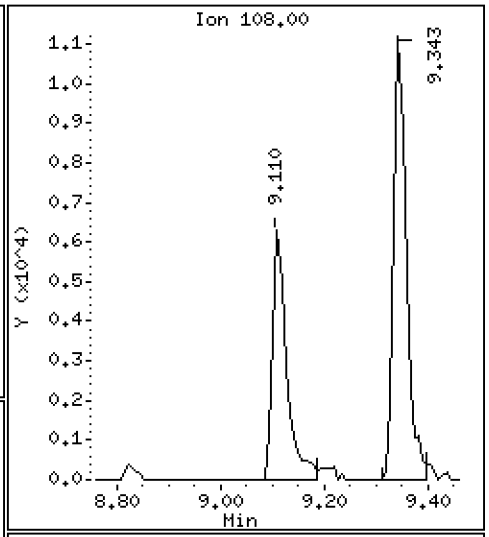
Concentration: 0.4418 ug/mL

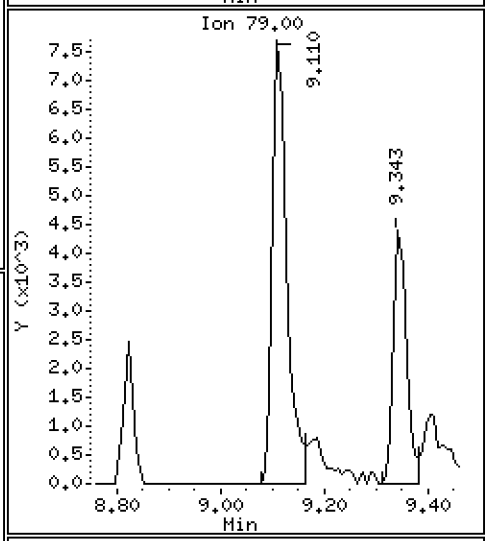


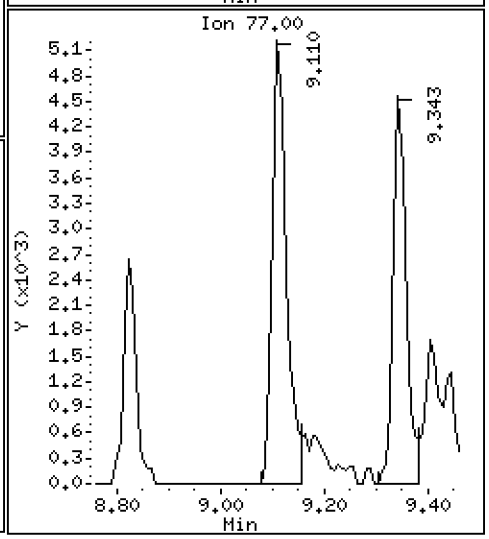












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

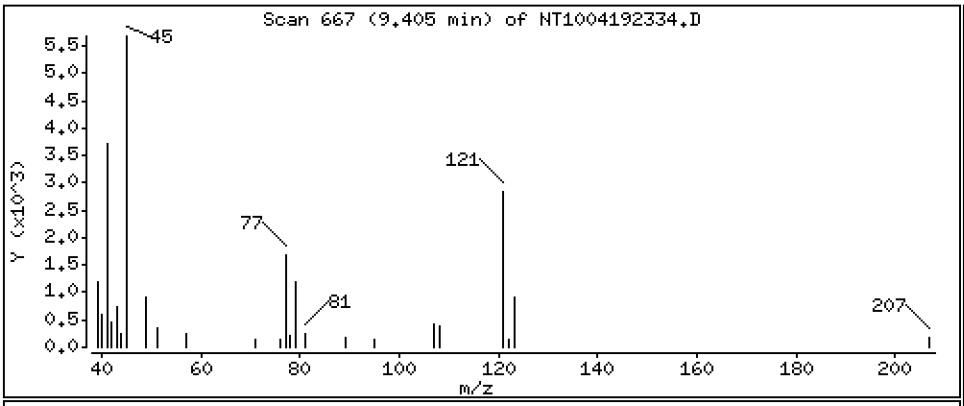
Operator: VTS

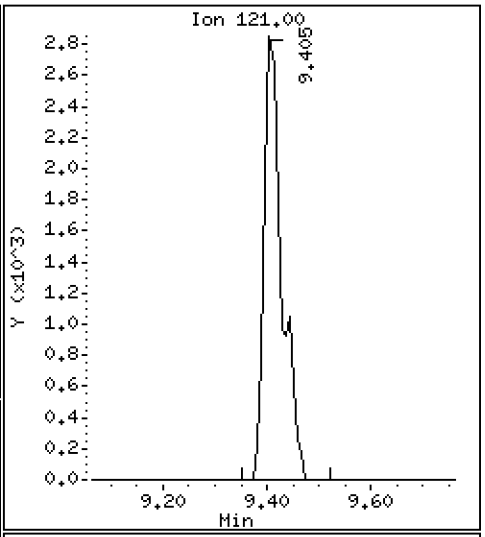
Column phase: ZB-5msi

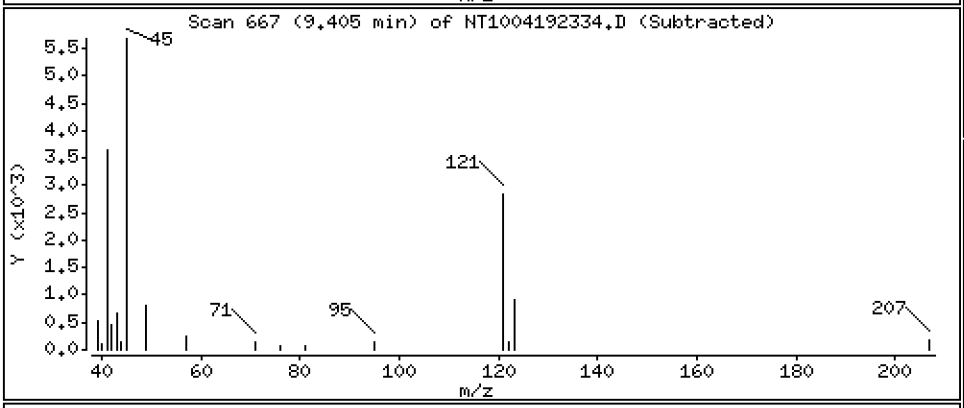
Column diameter: 0.25

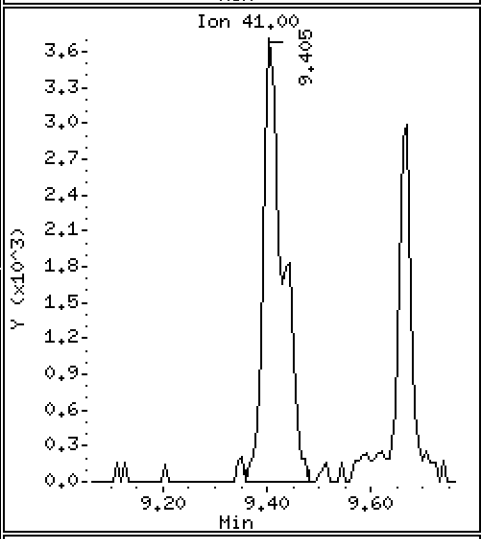
14 2,2'-oxybis(1-Chloropropane)

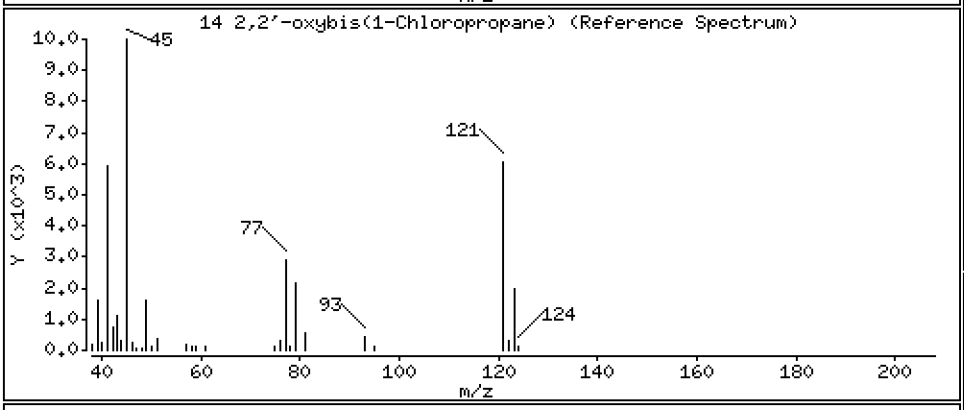
Concentration: 0.5230 ug/mL

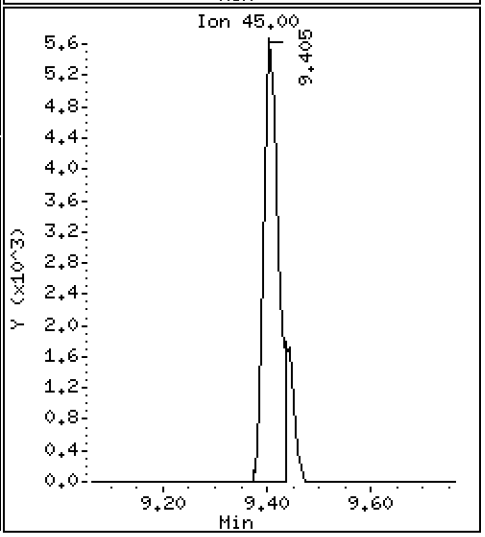


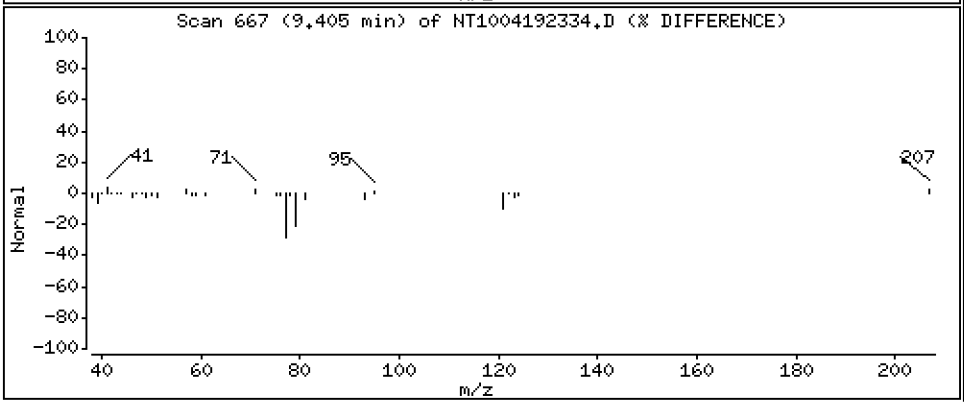












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

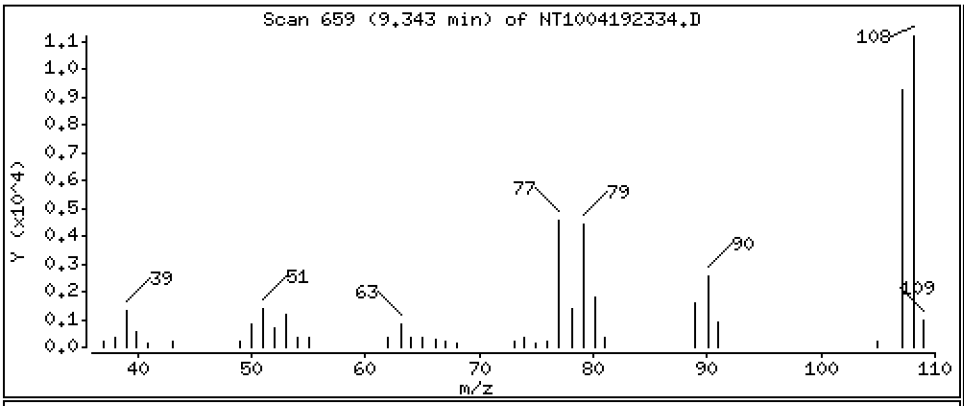
Operator: VTS

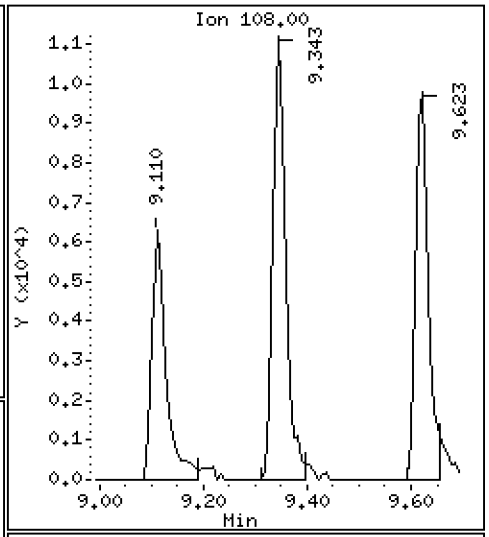
Column phase: ZB-5msi

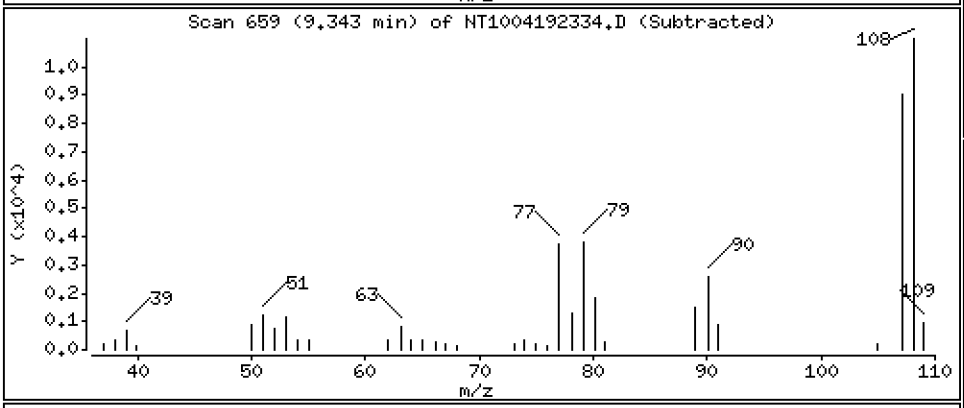
Column diameter: 0.25

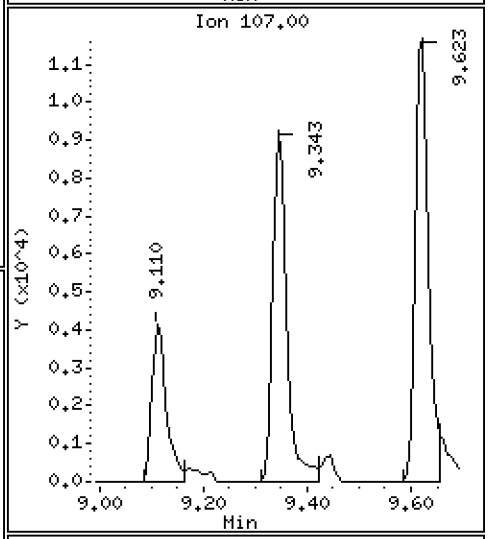
13 2-Methylphenol

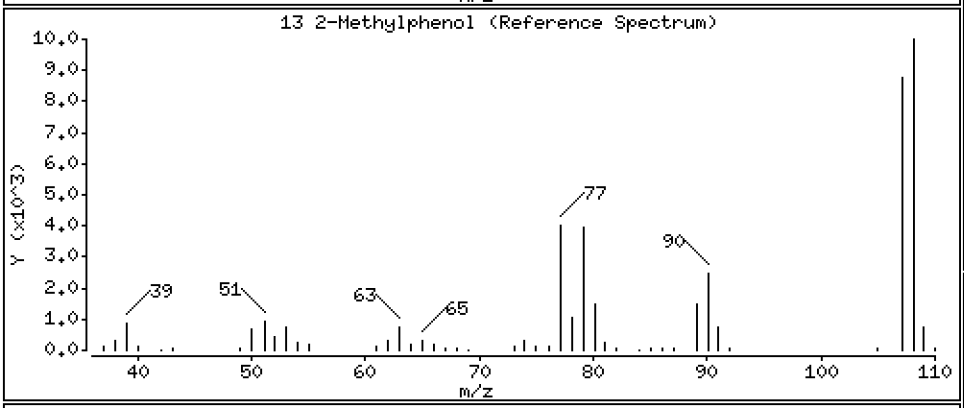
Concentration: 0.4549 ug/mL

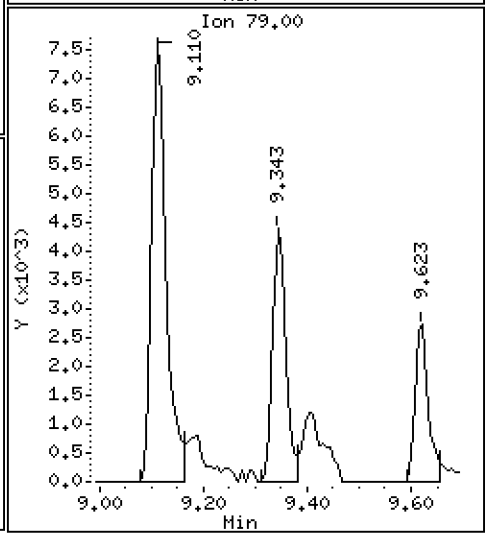


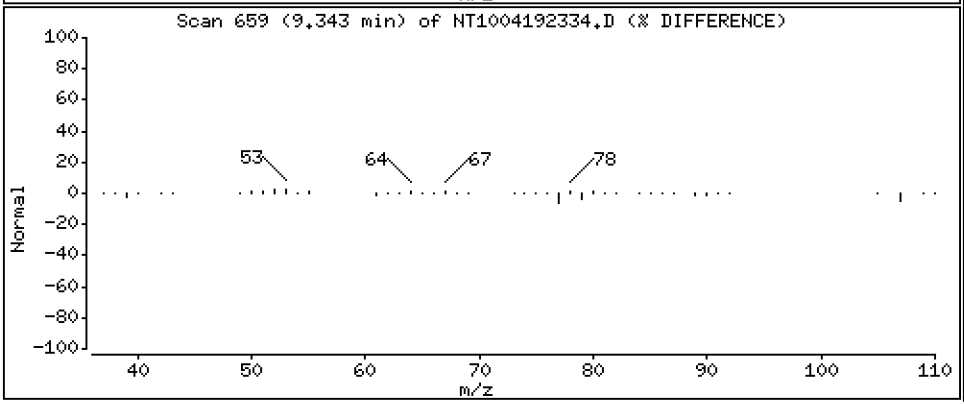












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

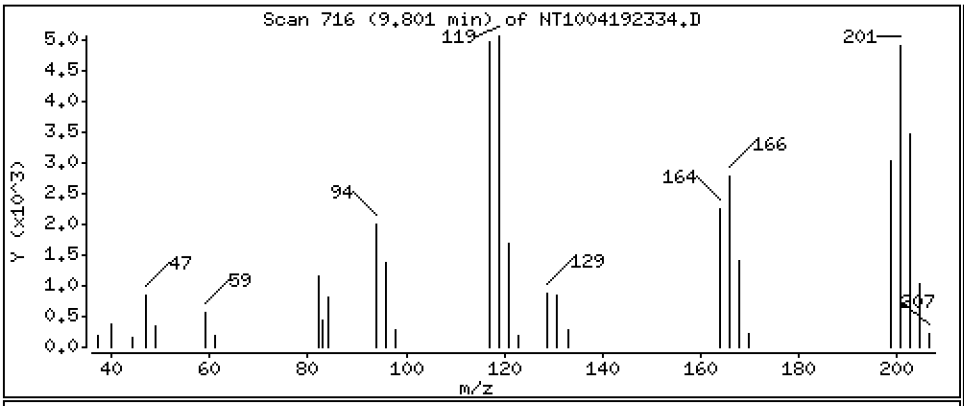
Operator: VTS

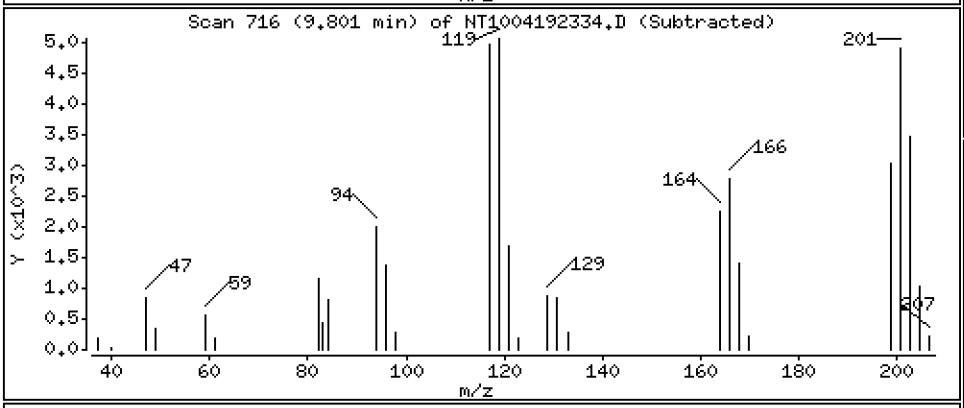
Column phase: ZB-5msi

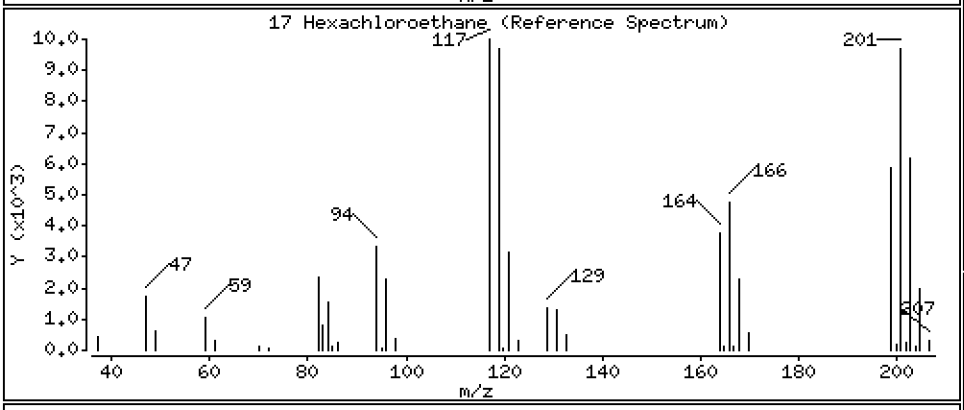
Column diameter: 0.25

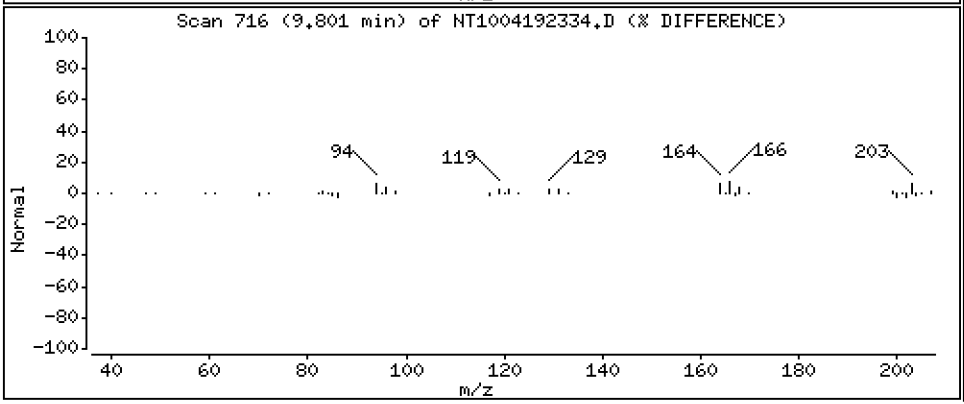
17 Hexachloroethane

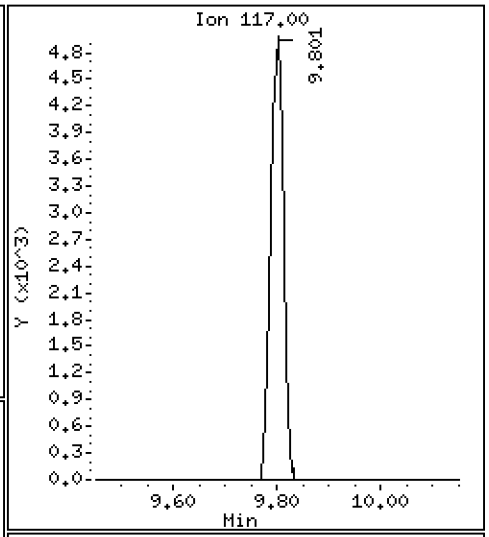
Concentration: 0.4073 ug/mL

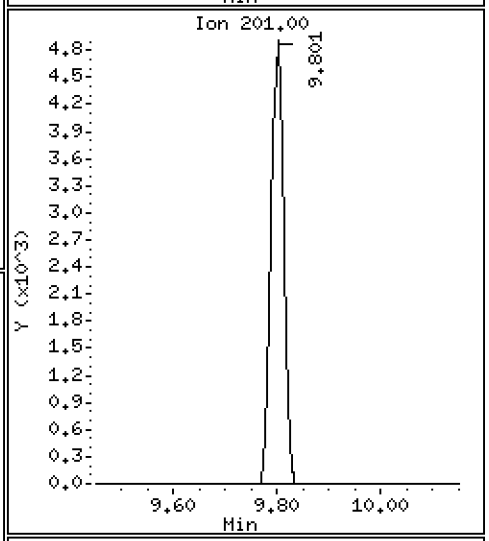


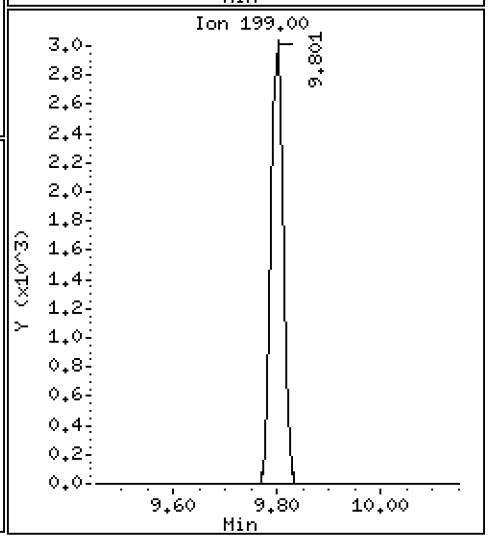












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

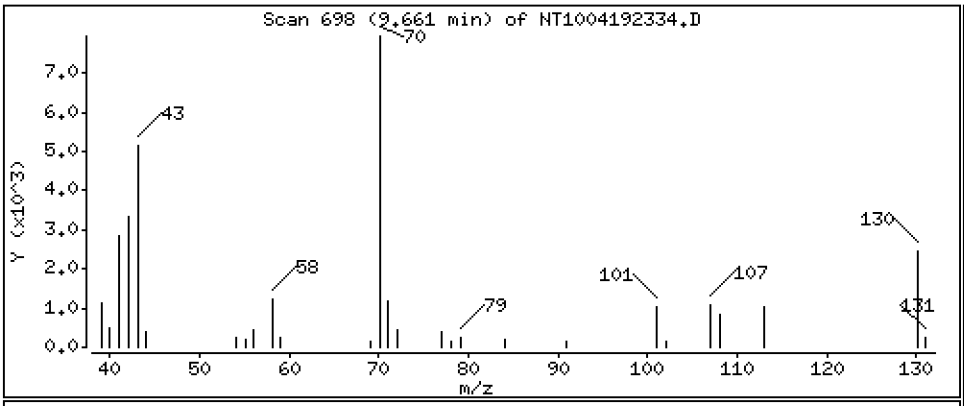
Operator: VTS

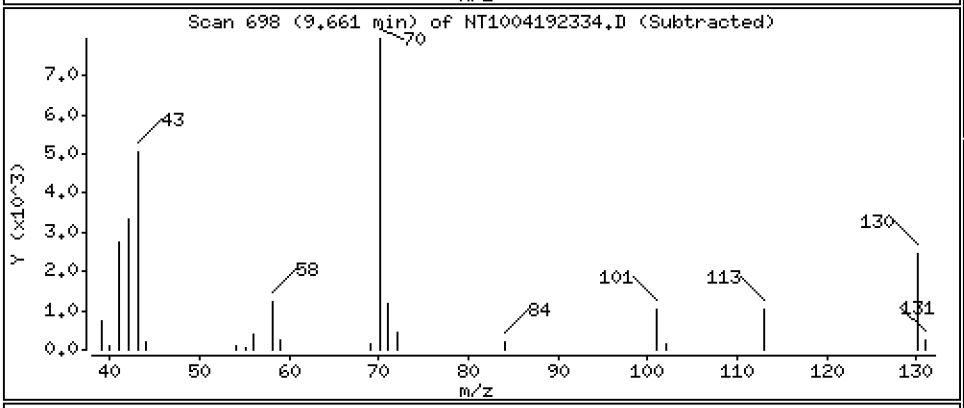
Column phase: ZB-5msi

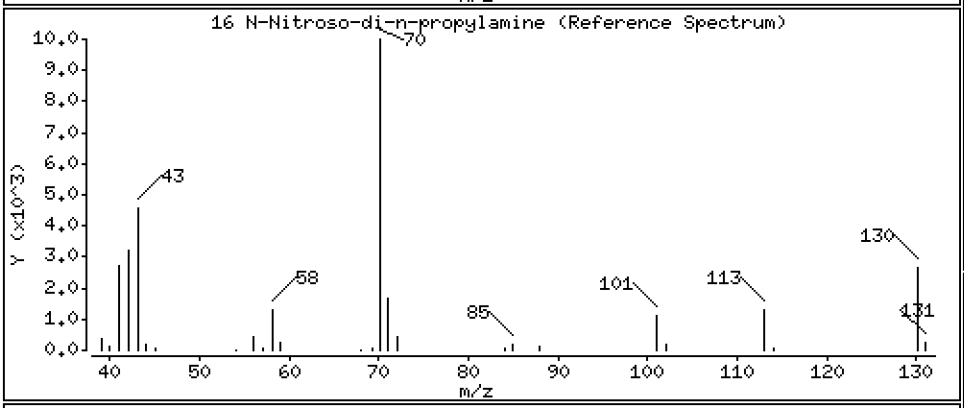
Column diameter: 0.25

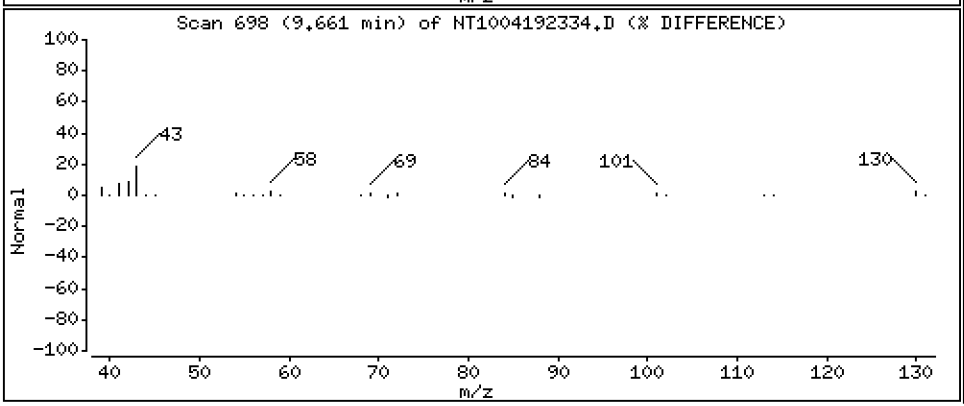
16 N-Nitroso-di-n-propylamine

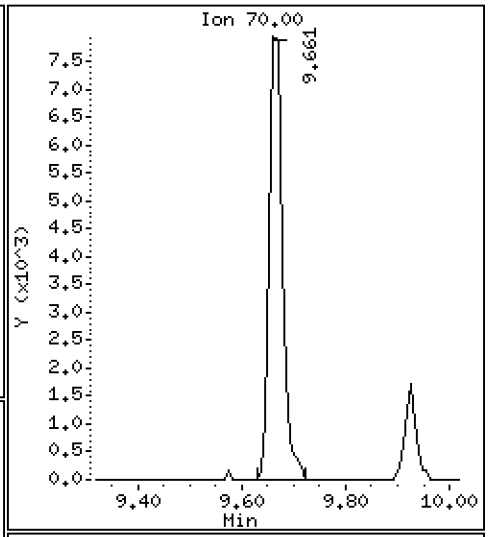
Concentration: 0.4241 ug/mL

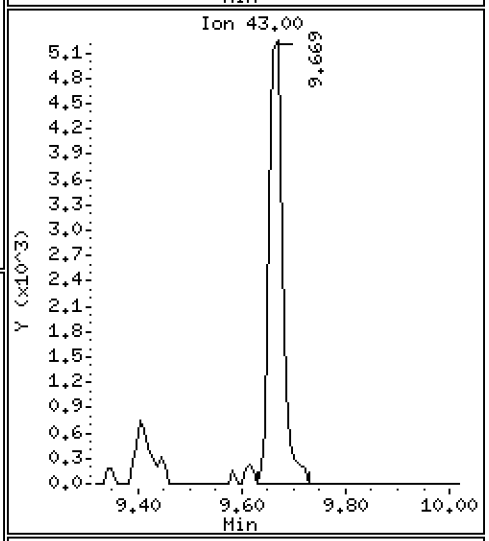


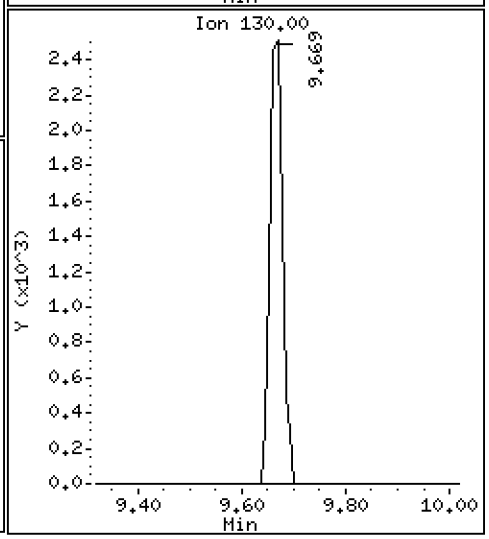












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

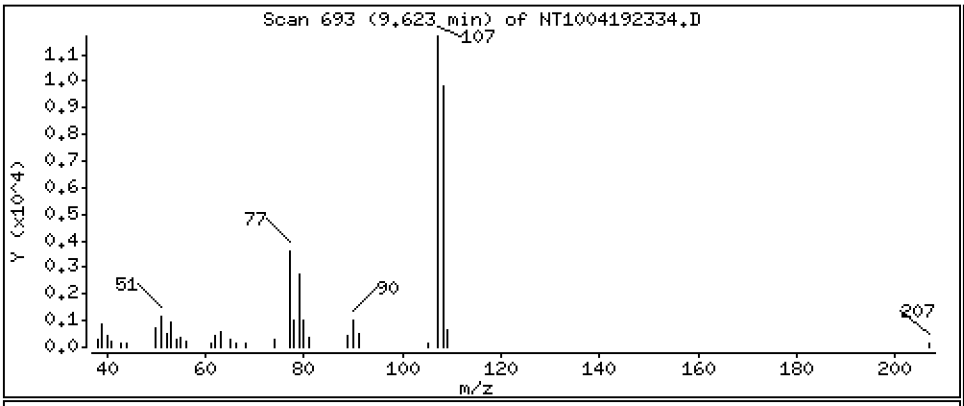
Operator: VTS

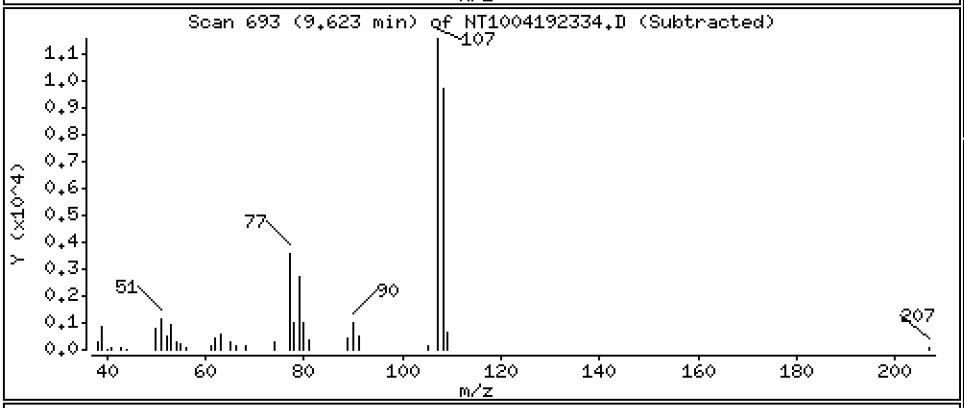
Column phase: ZB-5msi

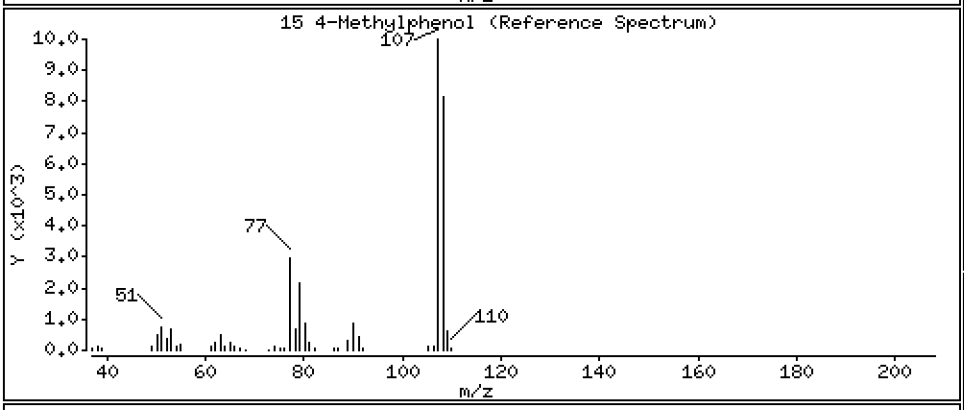
Column diameter: 0.25

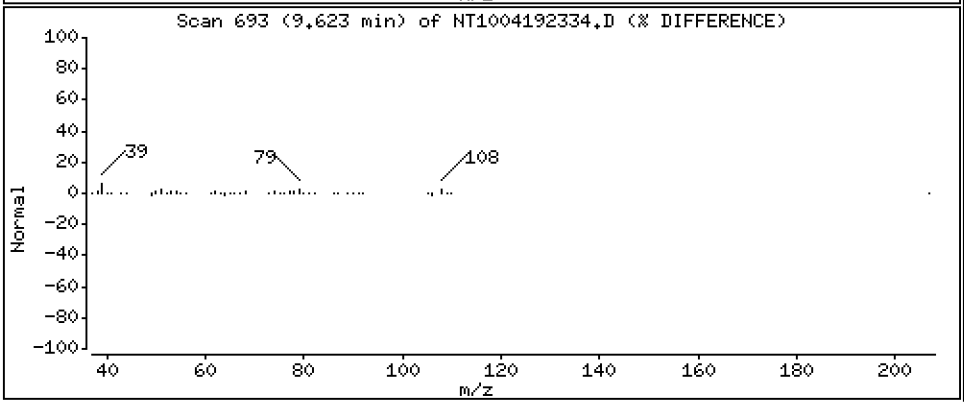
15 4-Methylphenol

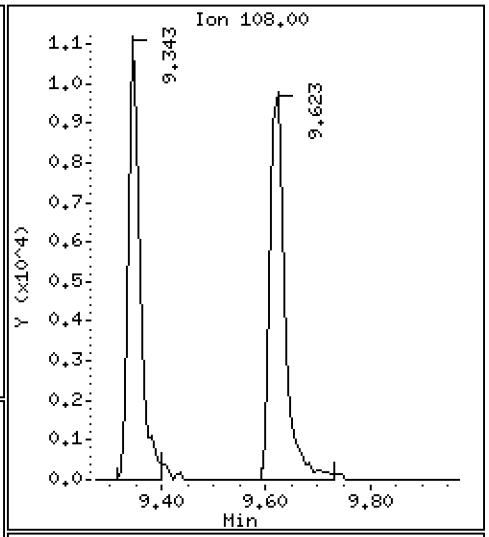
Concentration: 0.4480 ug/mL

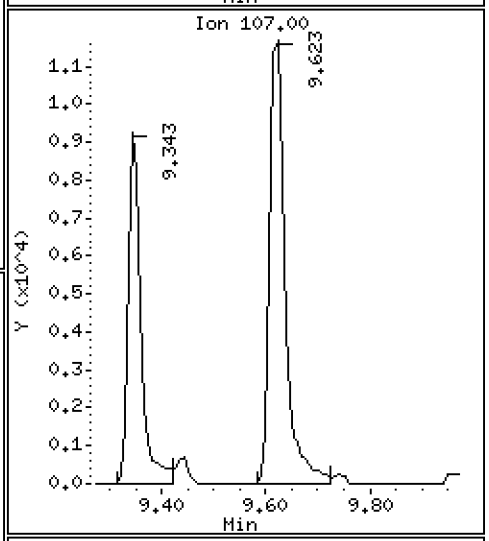


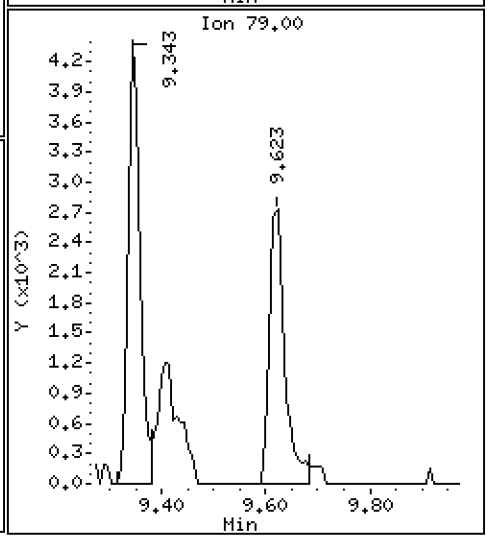












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

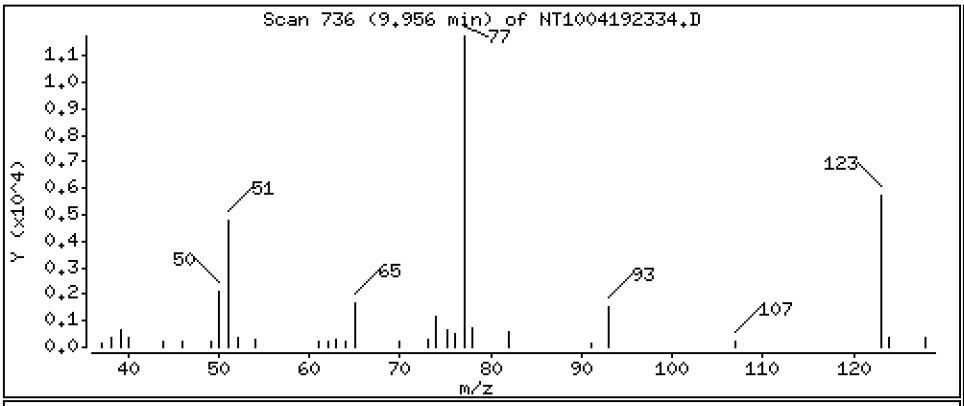
Operator: VTS

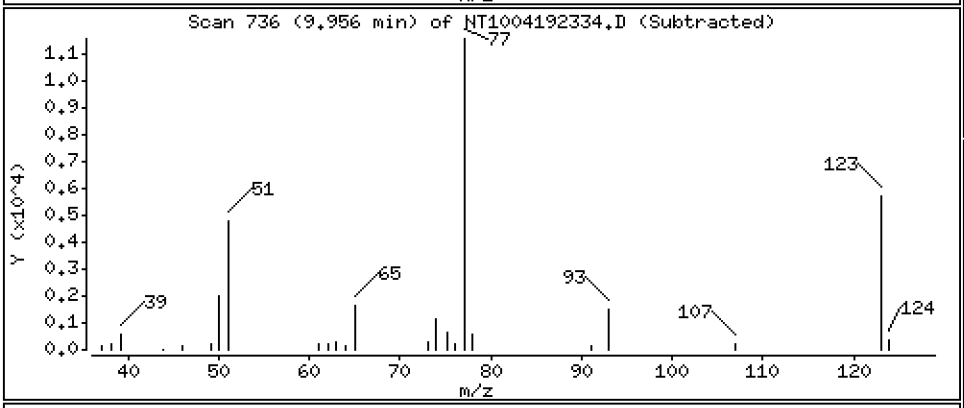
Column phase: ZB-5msi

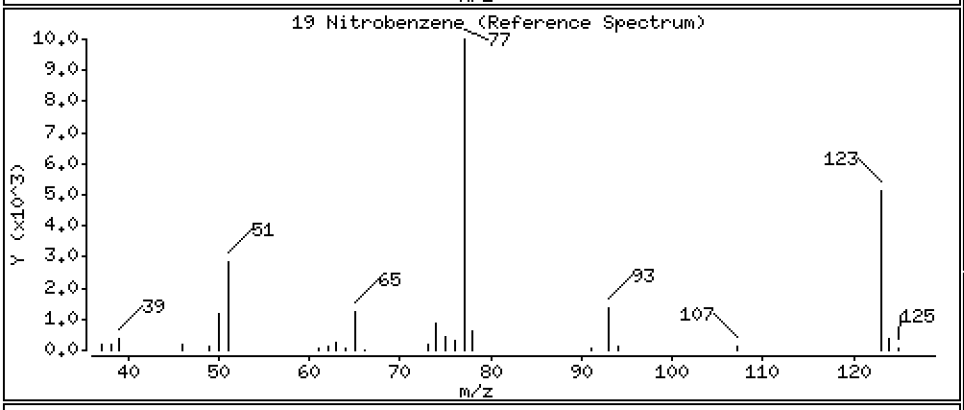
Column diameter: 0.25

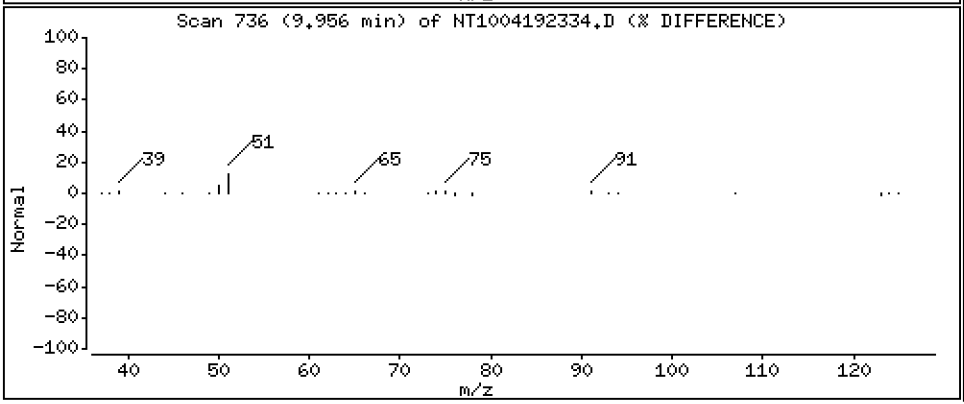
19 Nitrobenzene

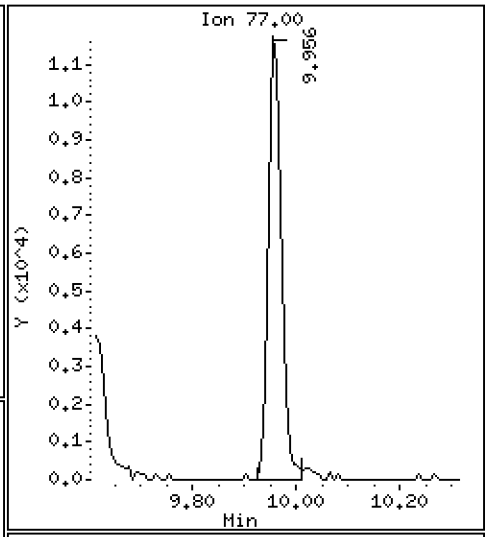
Concentration: 0.4291 ug/mL

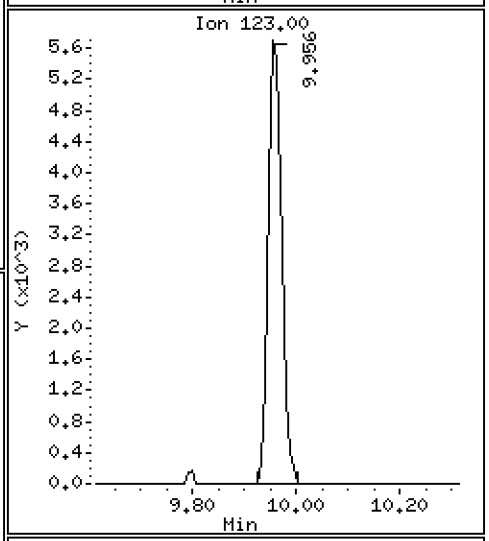


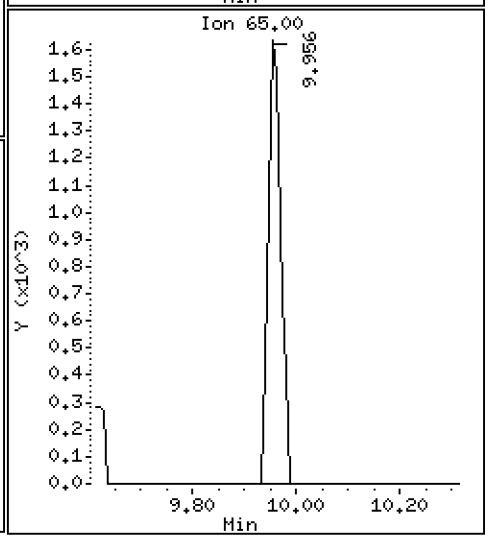












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

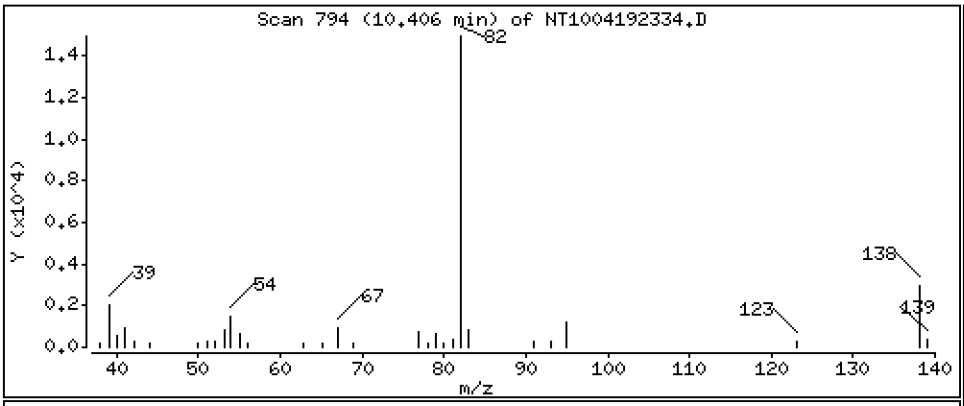
Operator: VTS

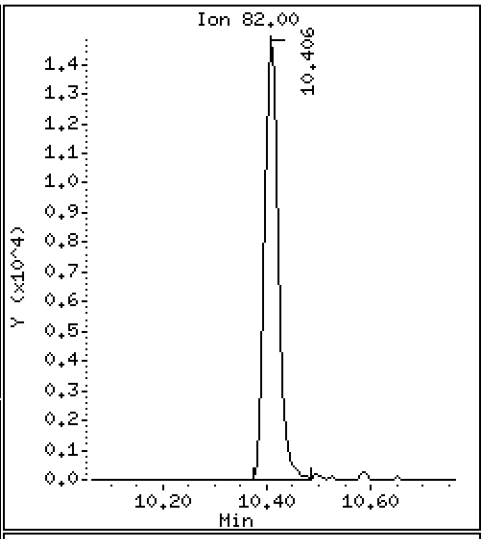
Column phase: ZB-5msi

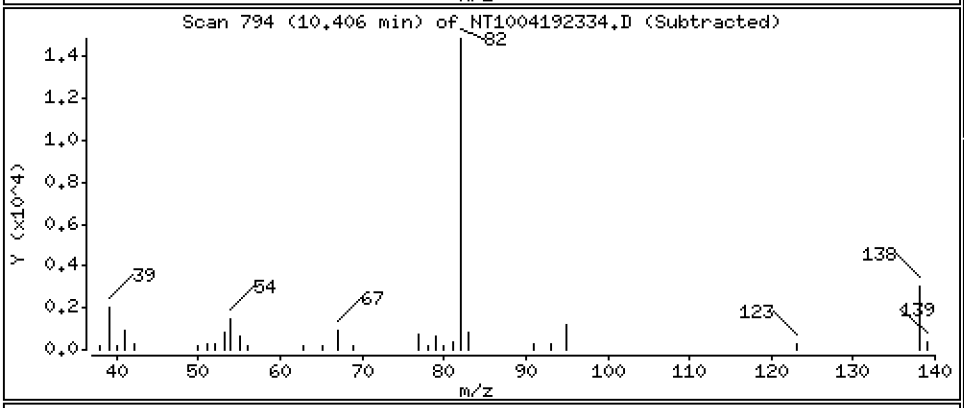
Column diameter: 0.25

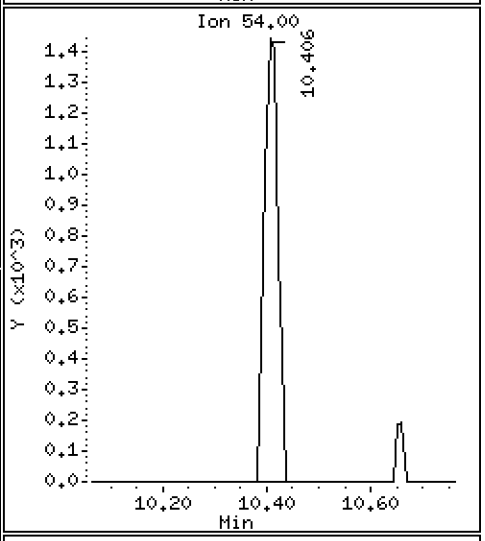
20 Isophorone

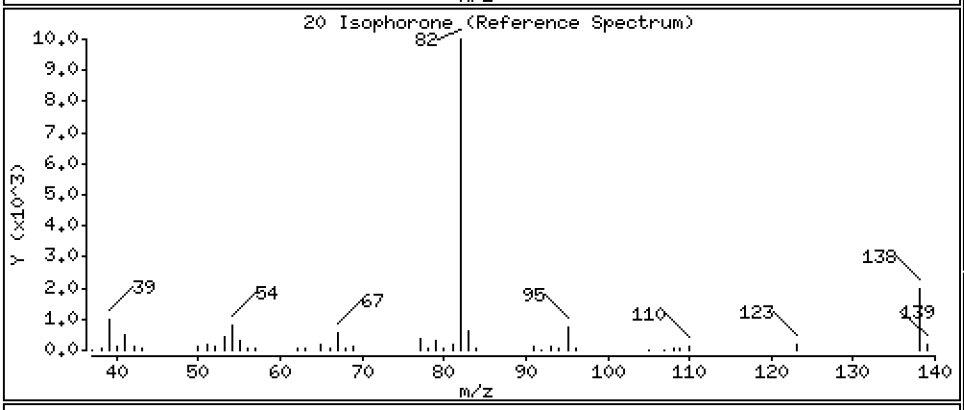
Concentration: 0.4417 ug/mL

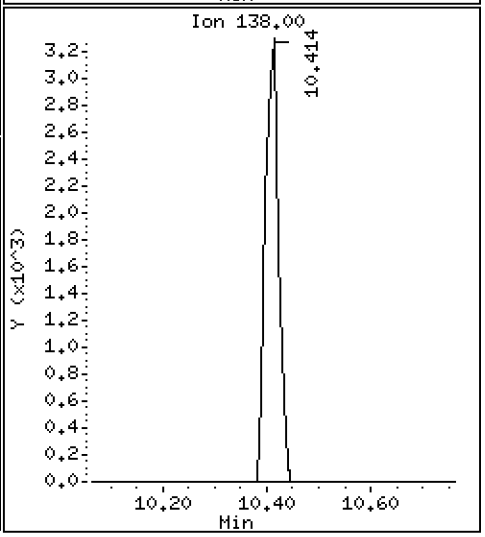


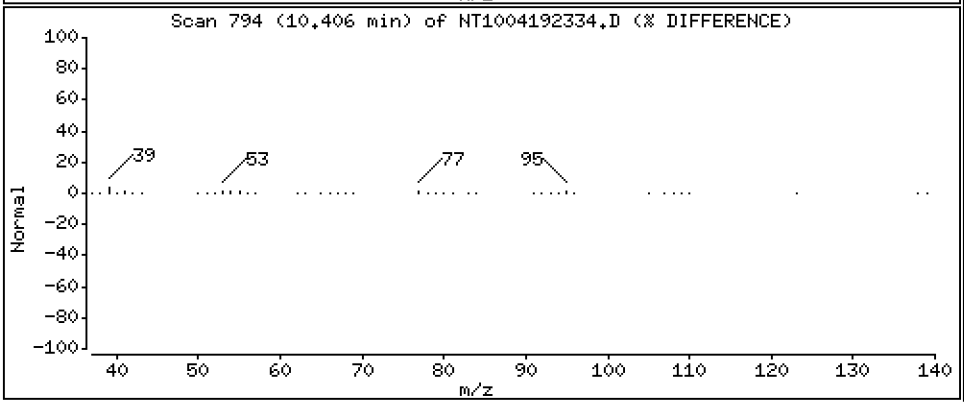












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

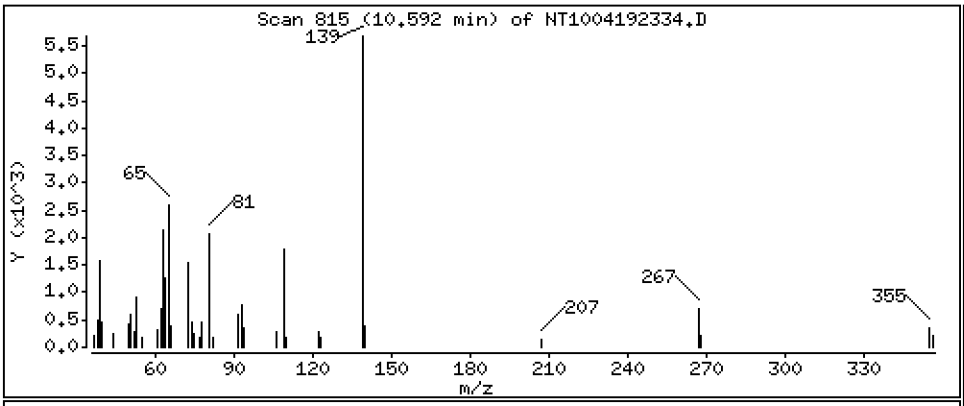
Operator: VTS

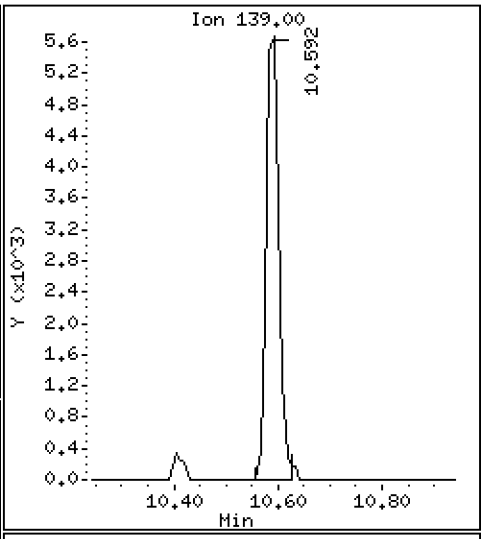
Column phase: ZB-5msi

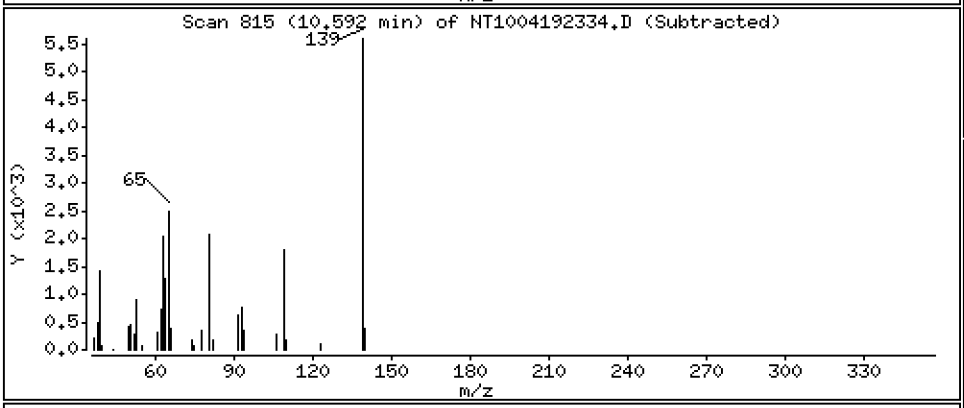
Column diameter: 0.25

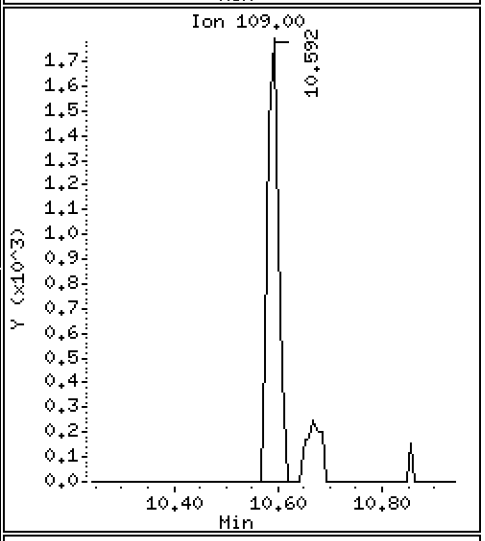
21 2-Nitrophenol

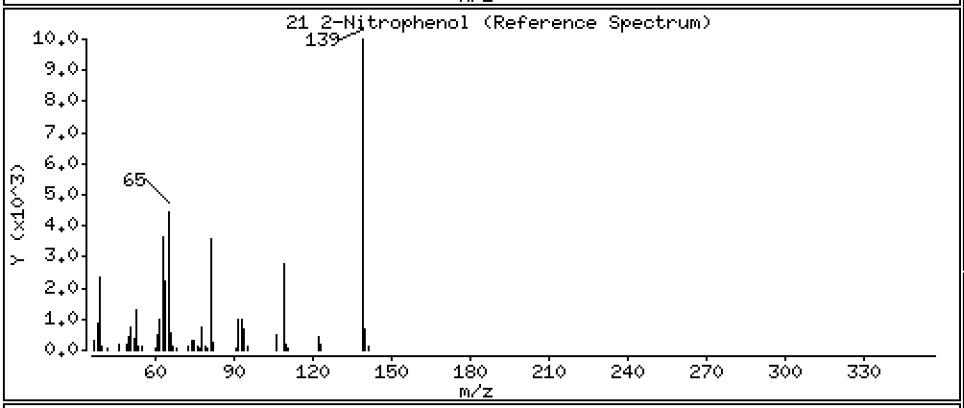
Concentration: 0.4259 ug/mL

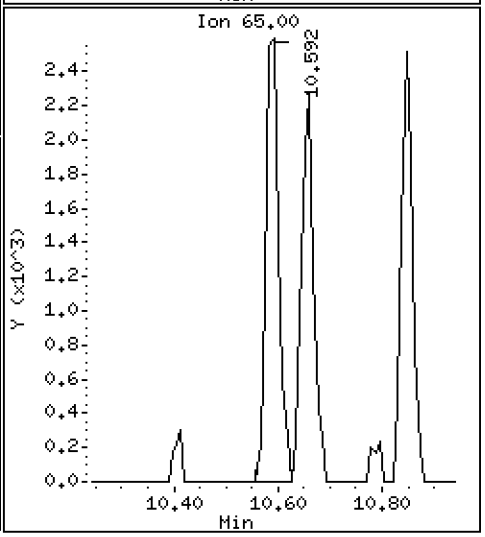


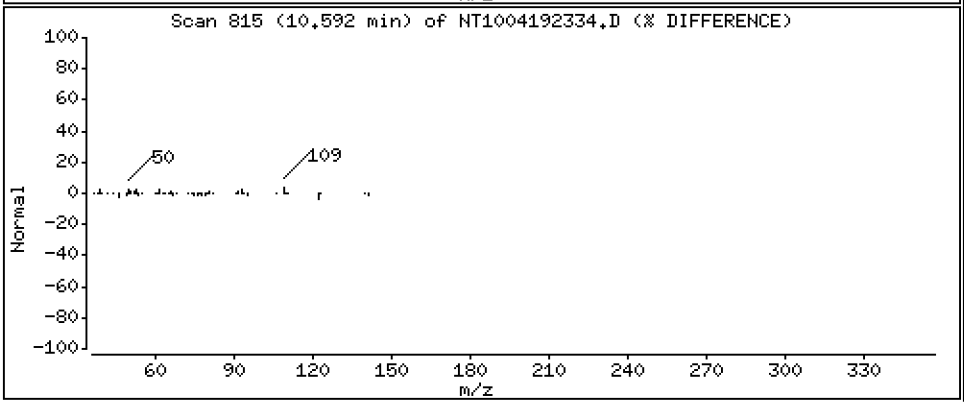












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

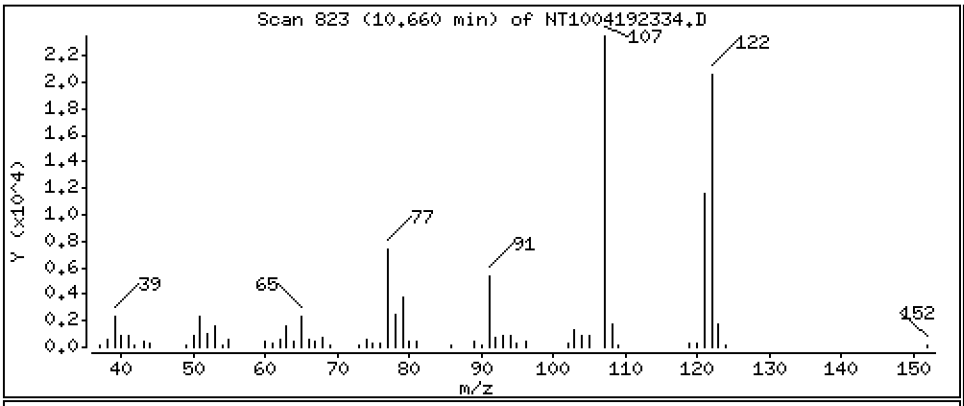
Operator: VTS

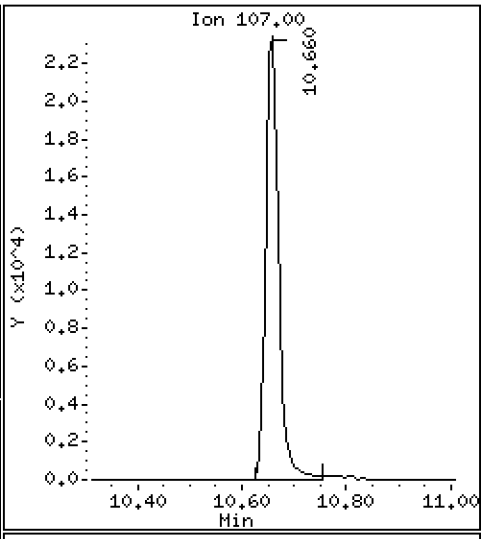
Column phase: ZB-5msi

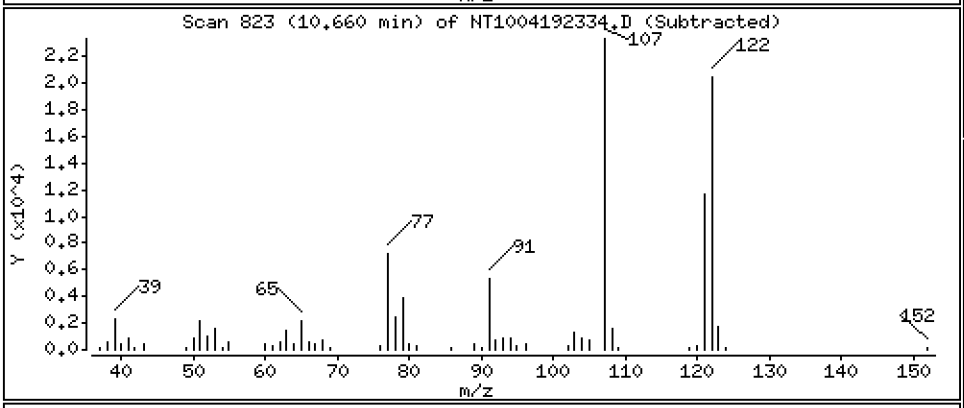
Column diameter: 0.25

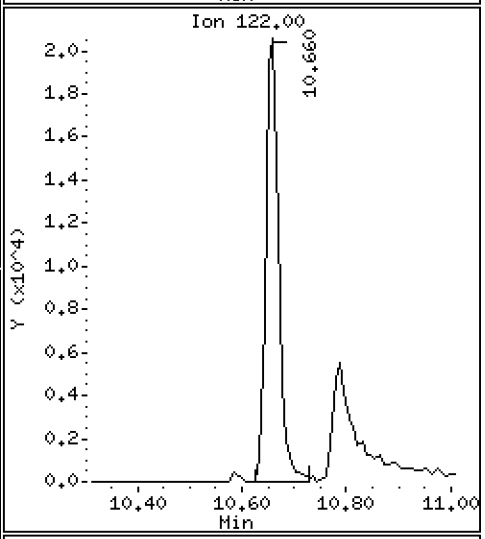
22 2,4-Dimethylphenol

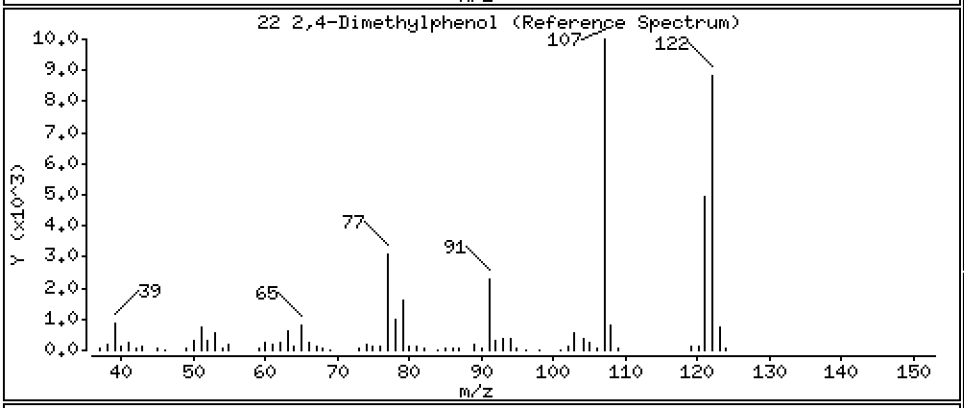
Concentration: 0.9542 ug/mL

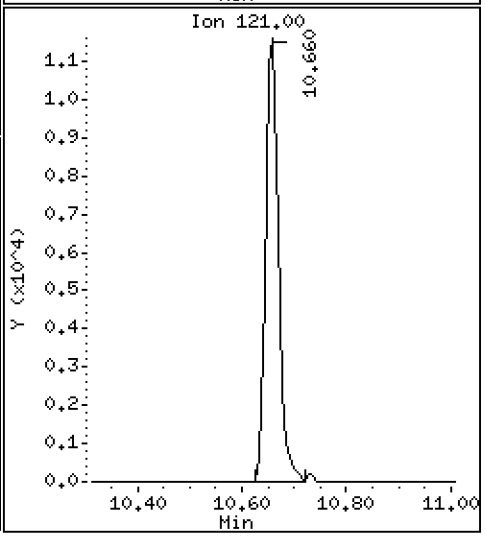


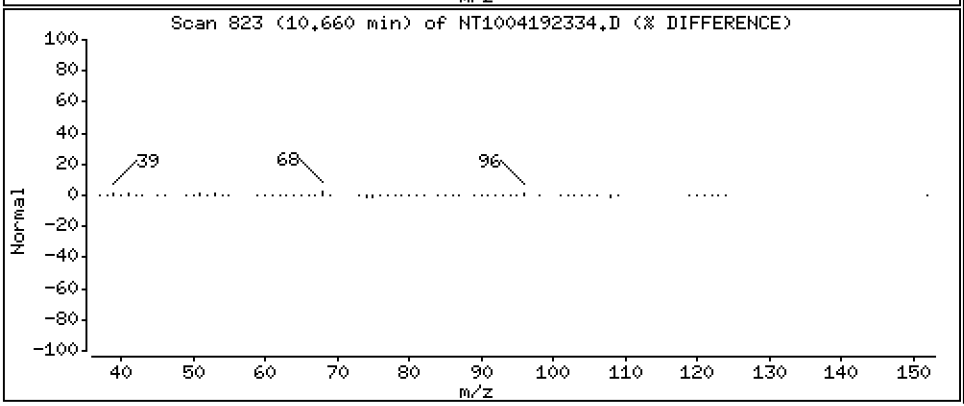












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

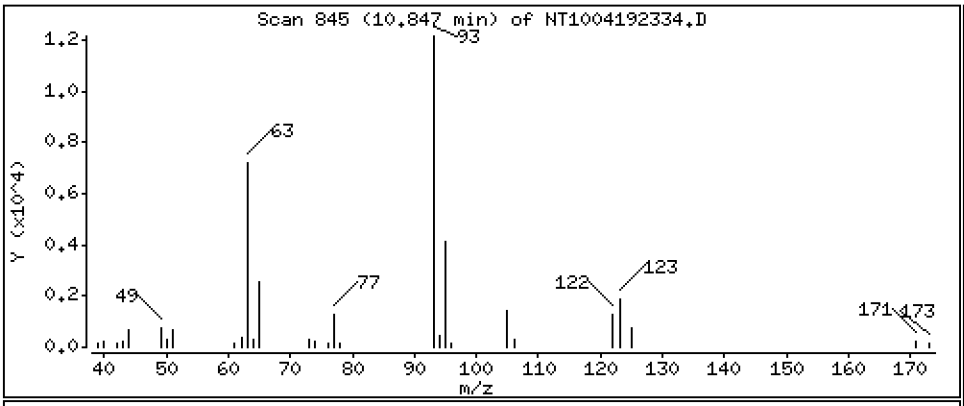
Operator: VTS

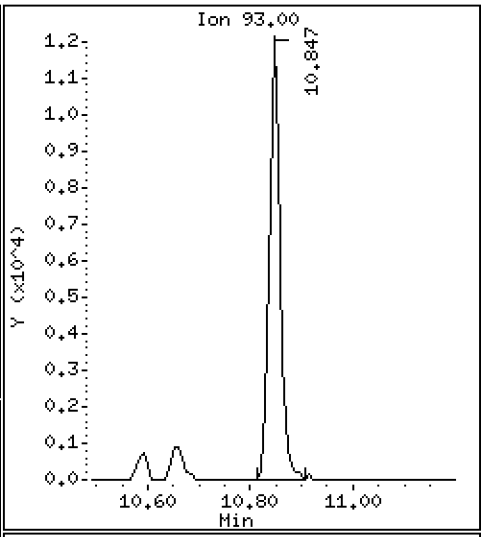
Column phase: ZB-5msi

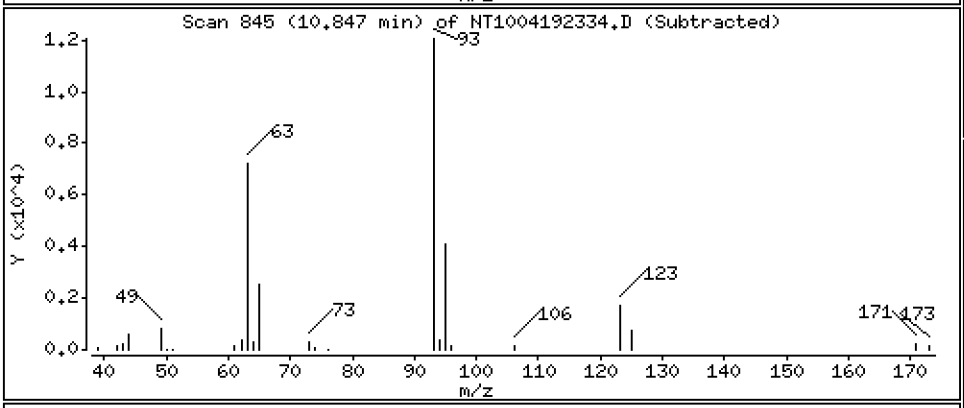
Column diameter: 0.25

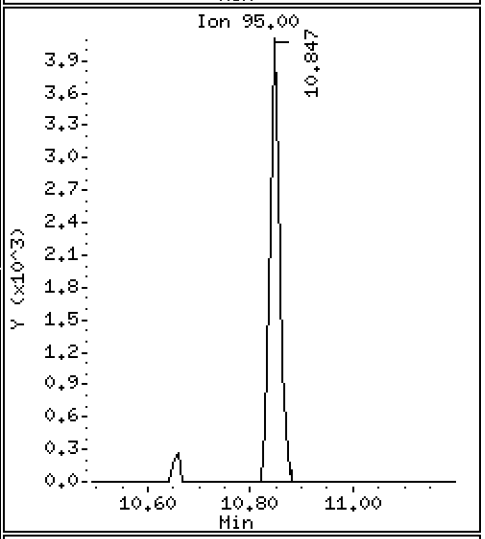
23 Bis(2-Chloroethoxy)methane

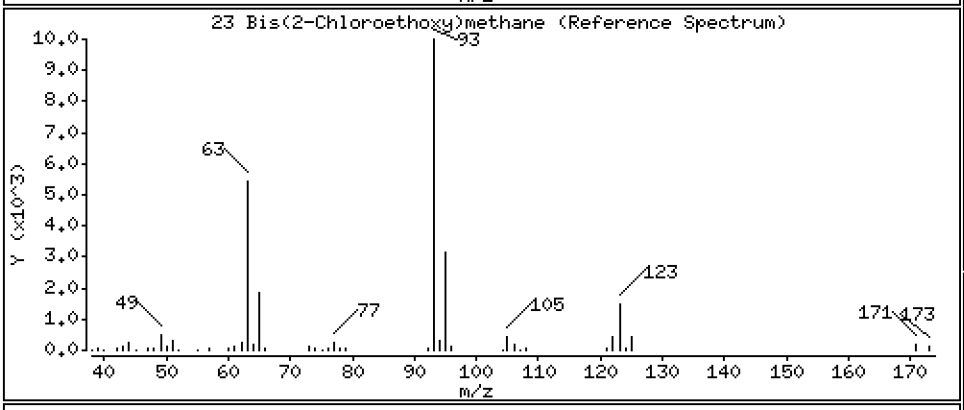
Concentration: 0.4607 ug/mL

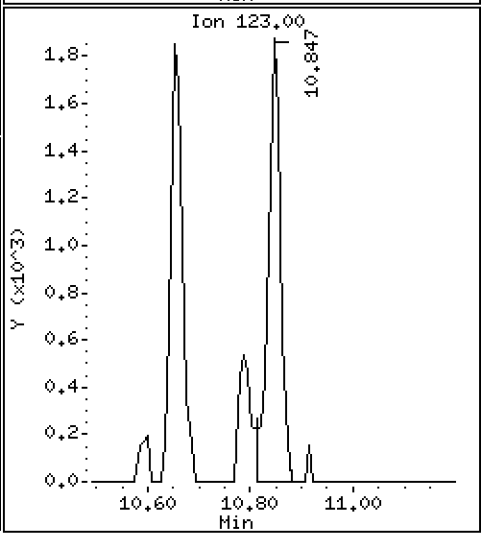


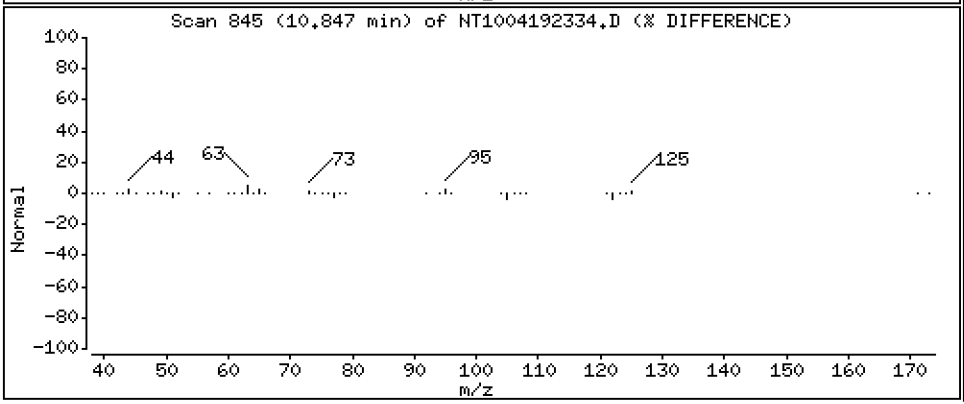












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192334.D

Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

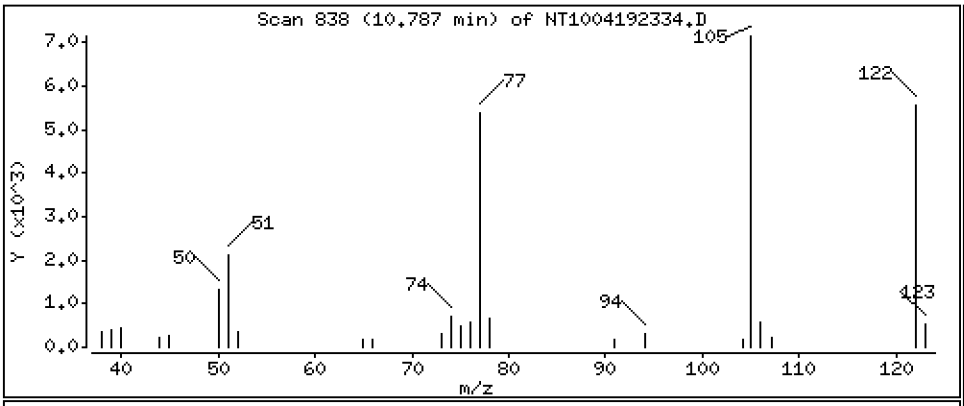
Operator: VTS

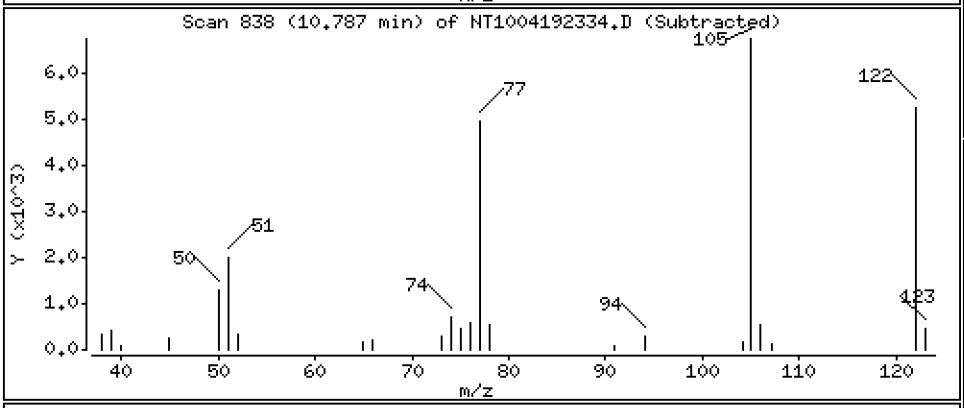
Column phase: ZB-5msi

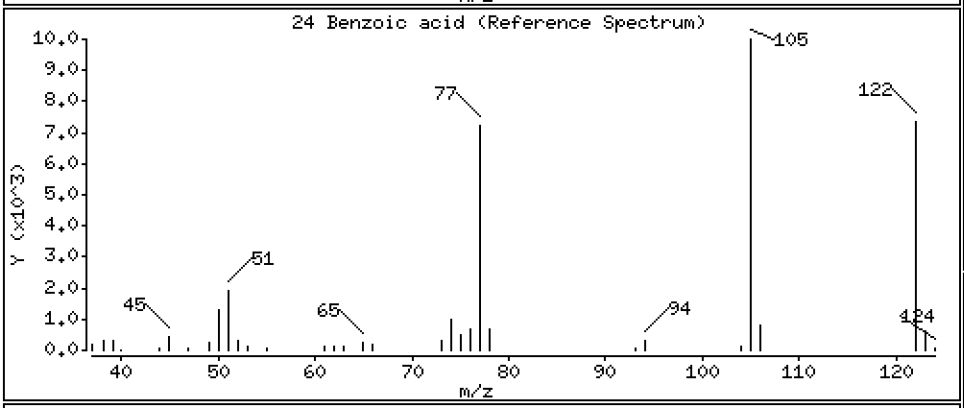
Column diameter: 0.25

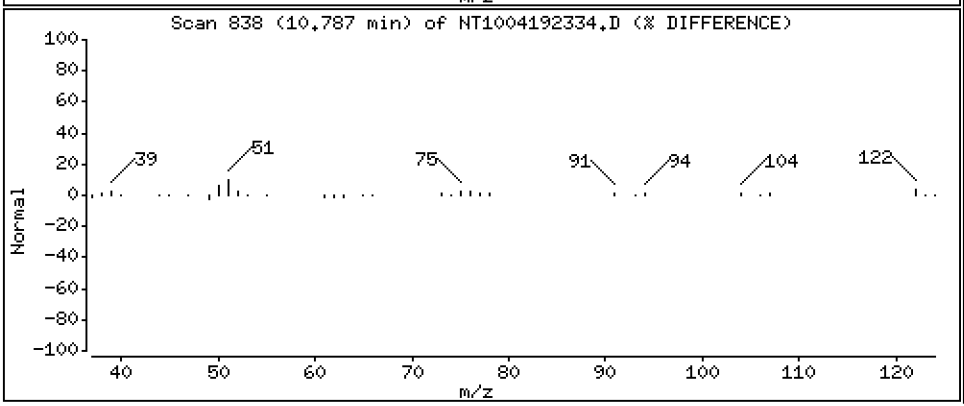
24 Benzoic acid

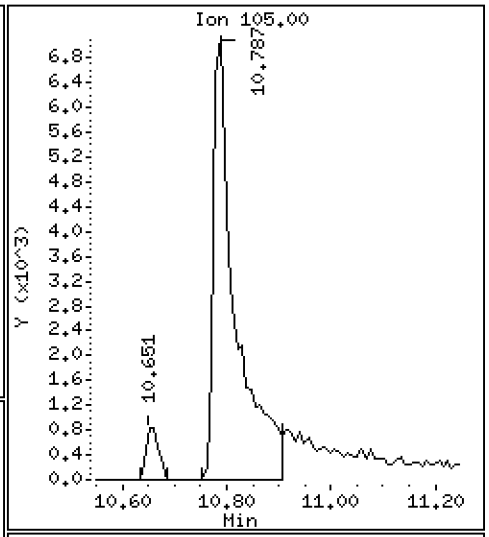
Concentration: 0.8898 ug/mL

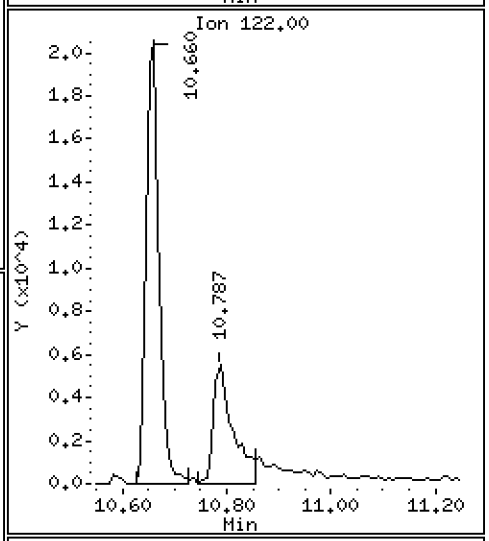


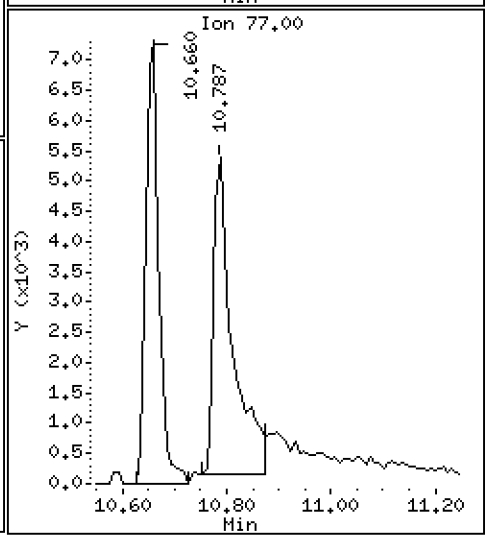












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

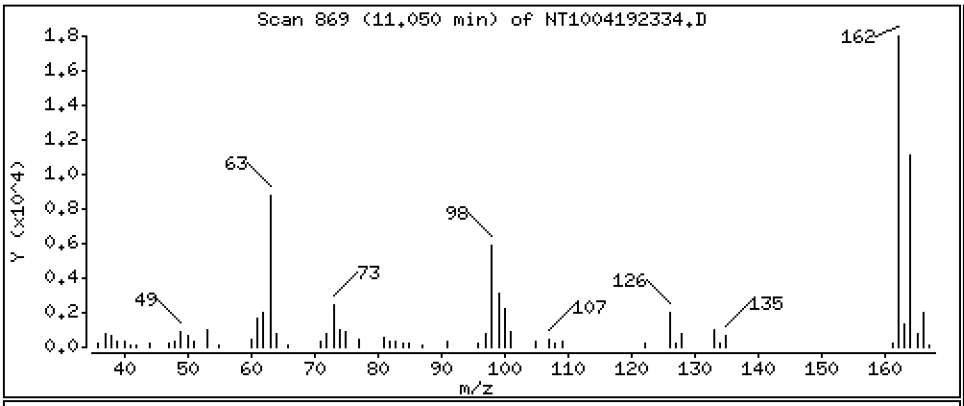
Operator: VTS

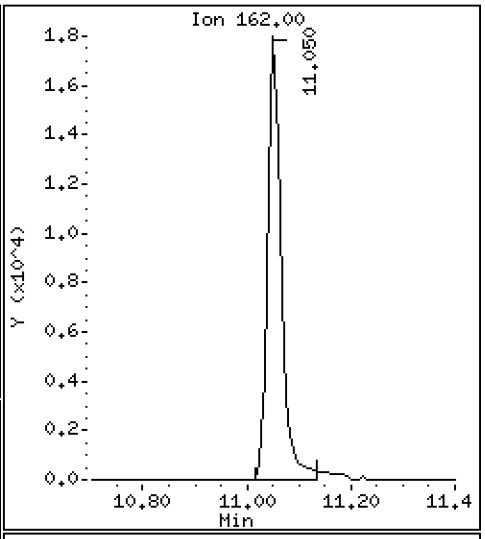
Column phase: ZB-5msi

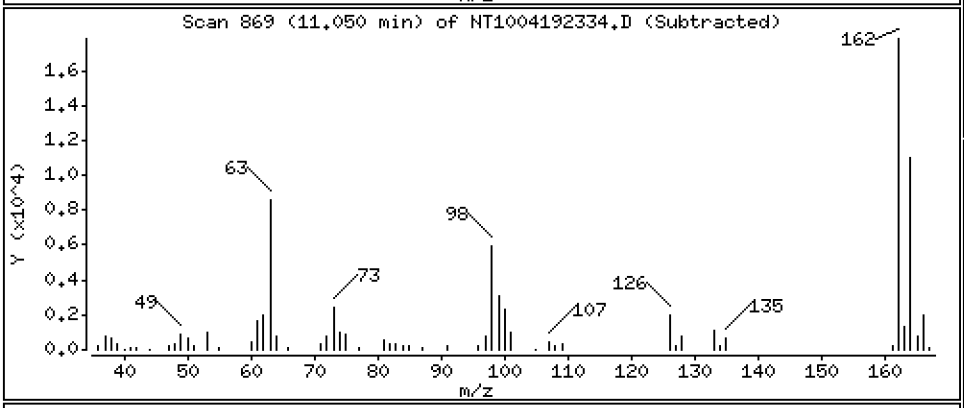
Column diameter: 0.25

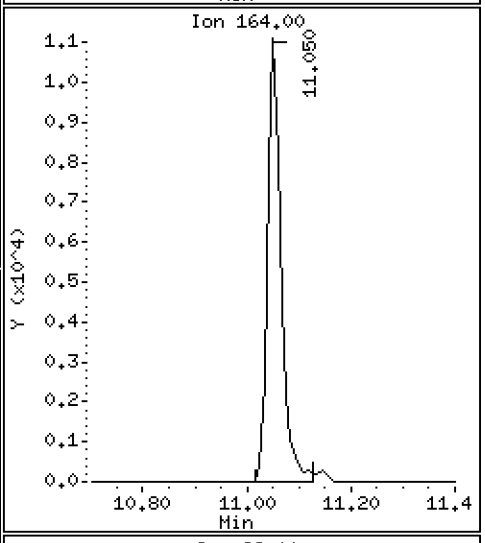
25 2,4-Dichlorophenol

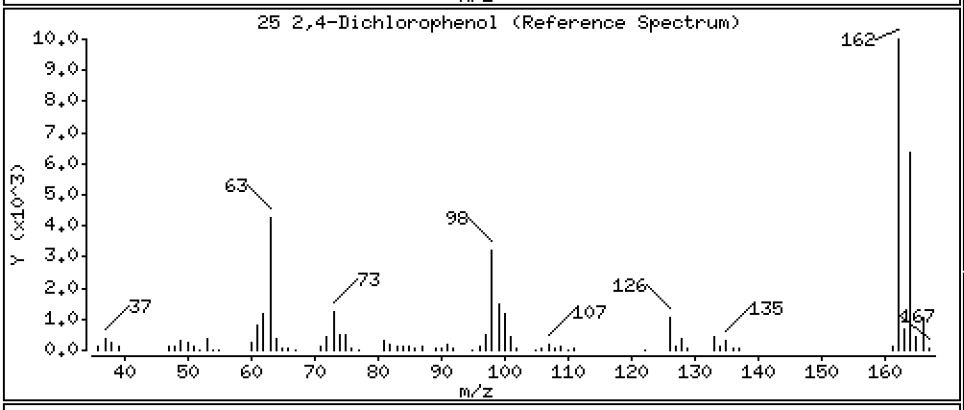
Concentration: 0.9623 ug/mL

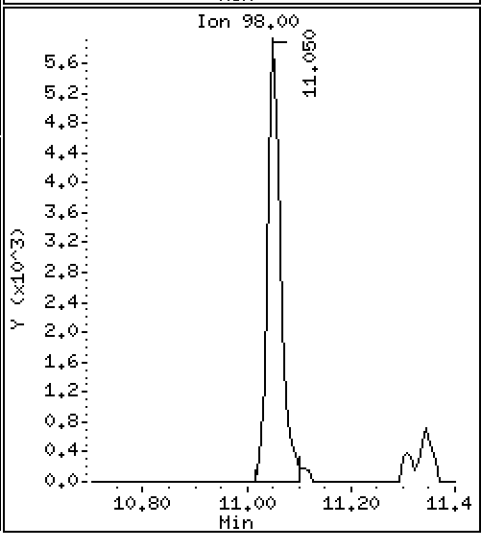


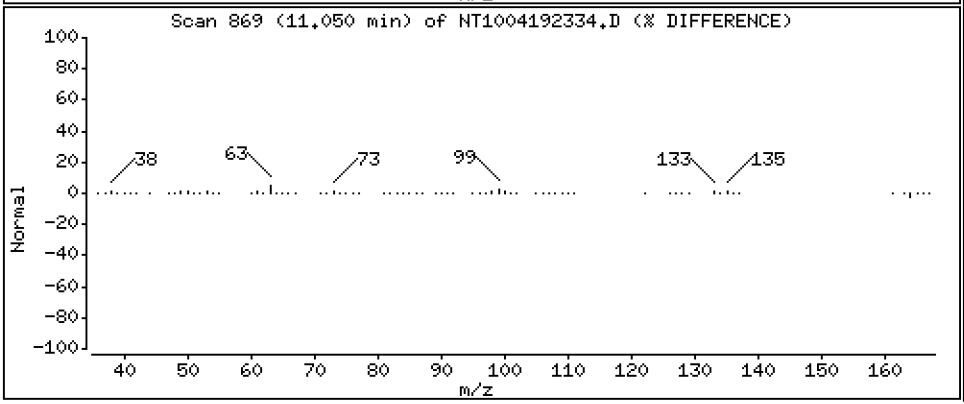












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

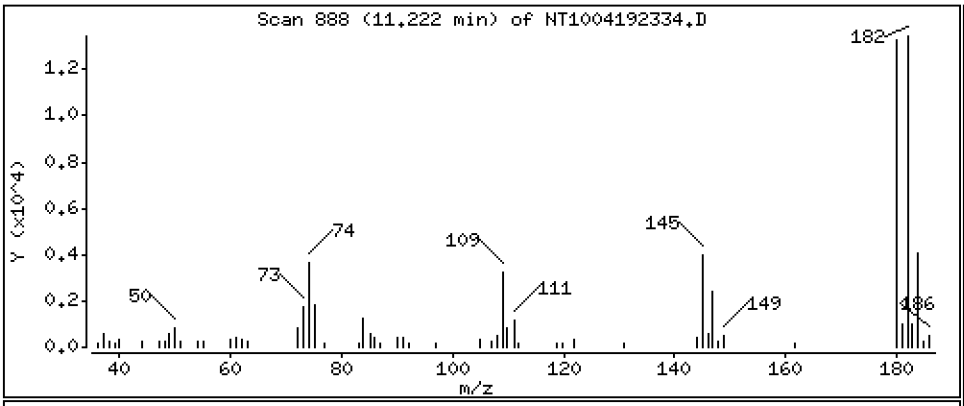
Operator: VTS

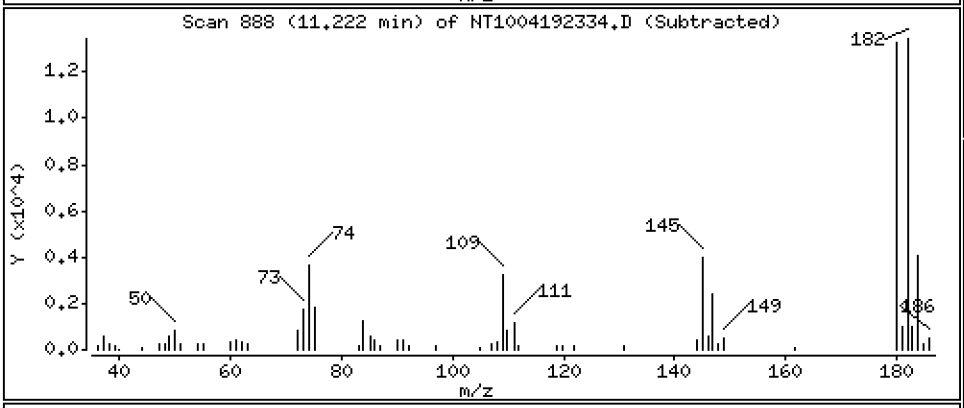
Column phase: ZB-5msi

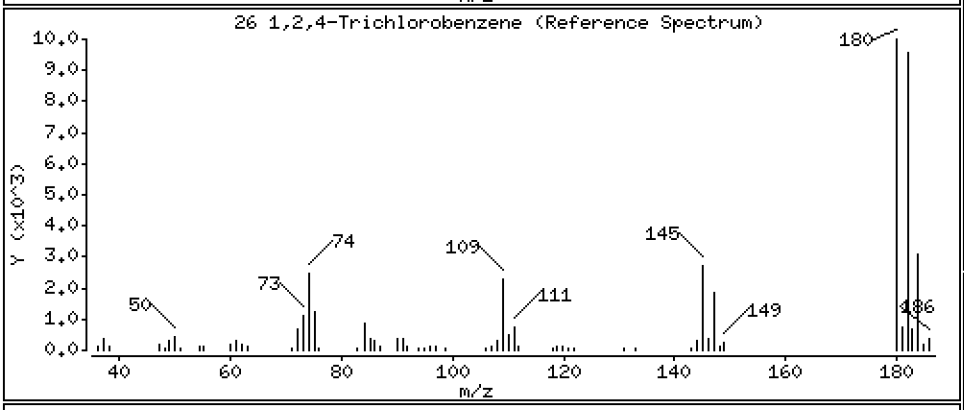
Column diameter: 0.25

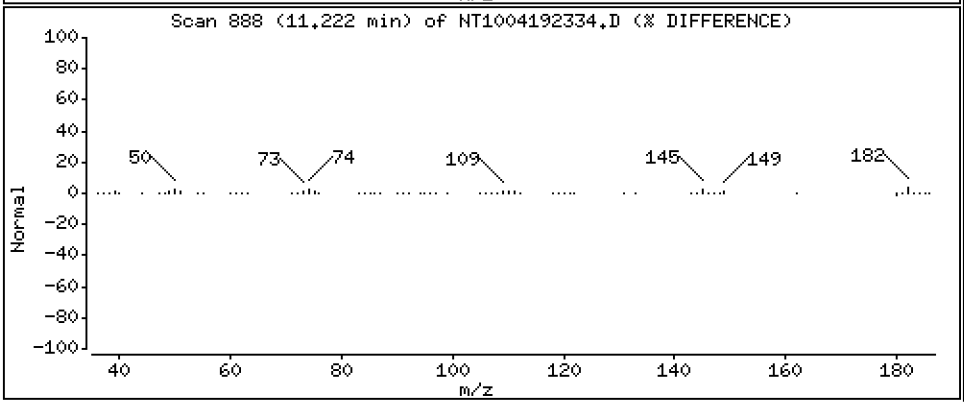
26 1,2,4-Trichlorobenzene

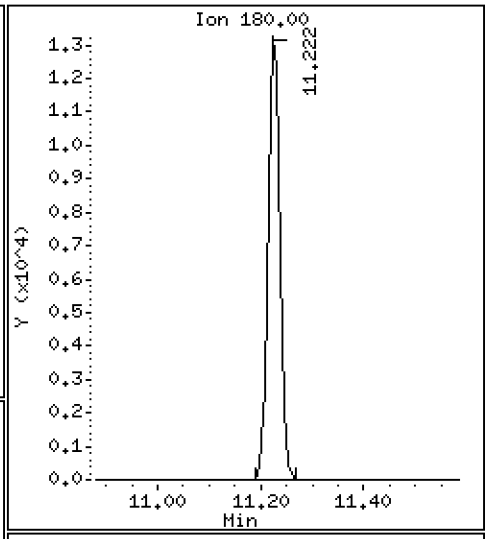
Concentration: 0.5394 ug/mL

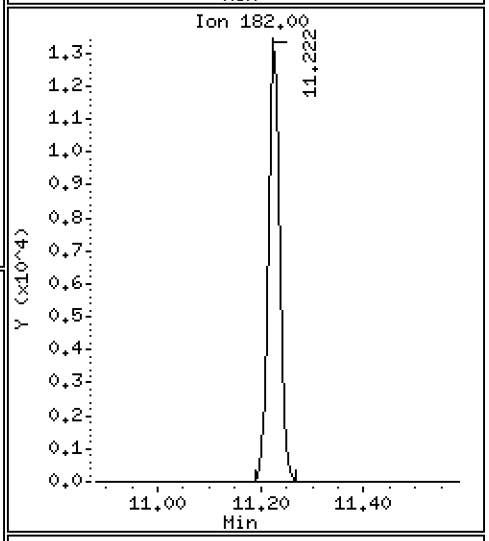


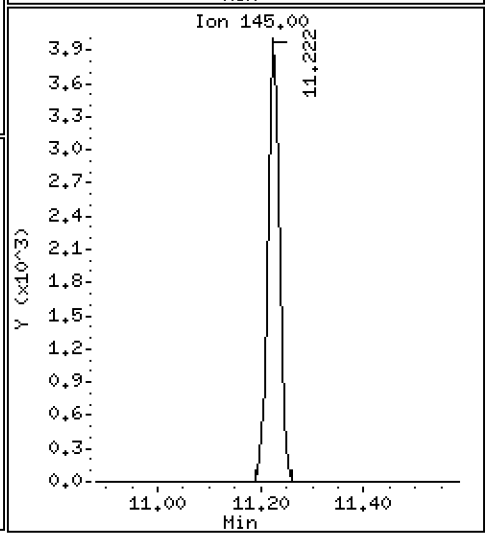












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

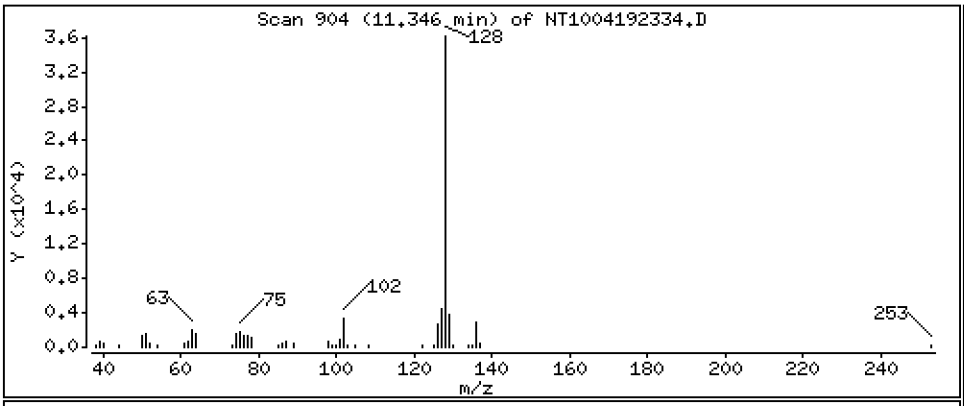
Operator: VTS

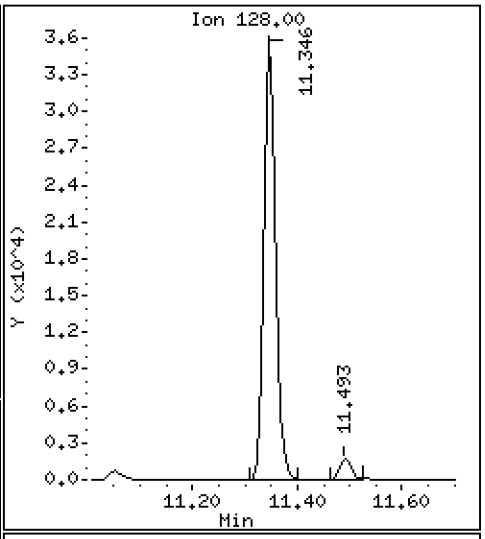
Column phase: ZB-5msi

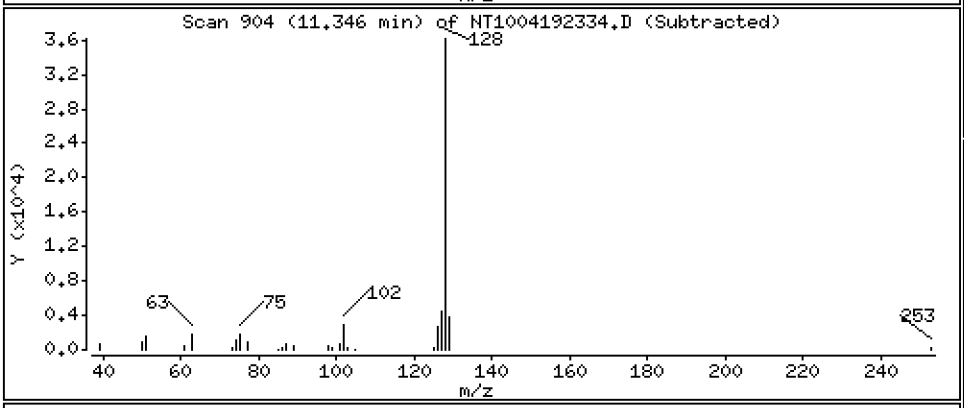
Column diameter: 0.25

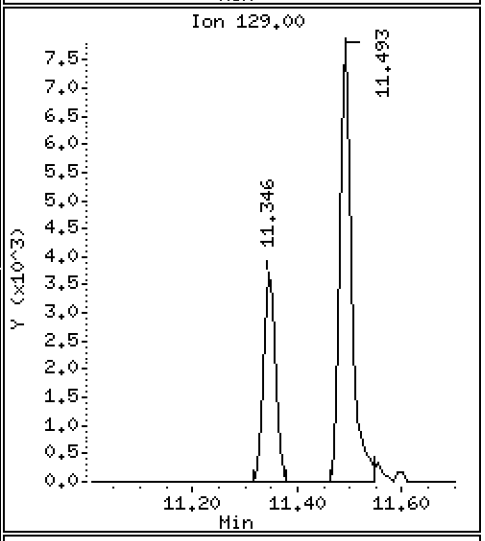
28 Naphthalene

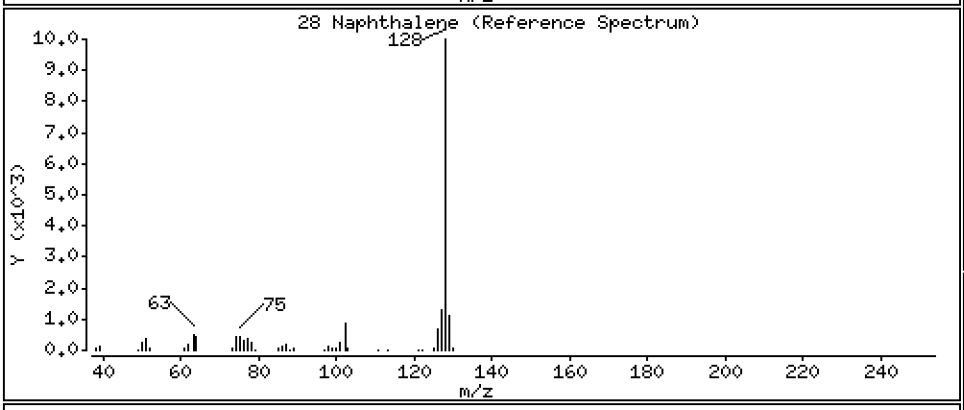
Concentration: 0.4627 ug/mL

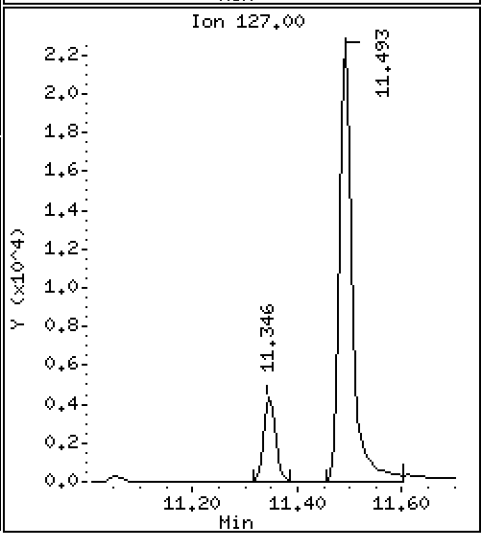


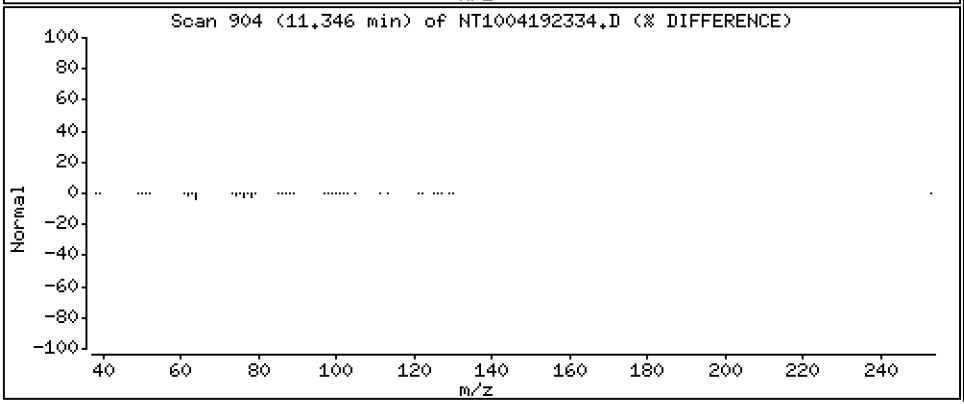












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

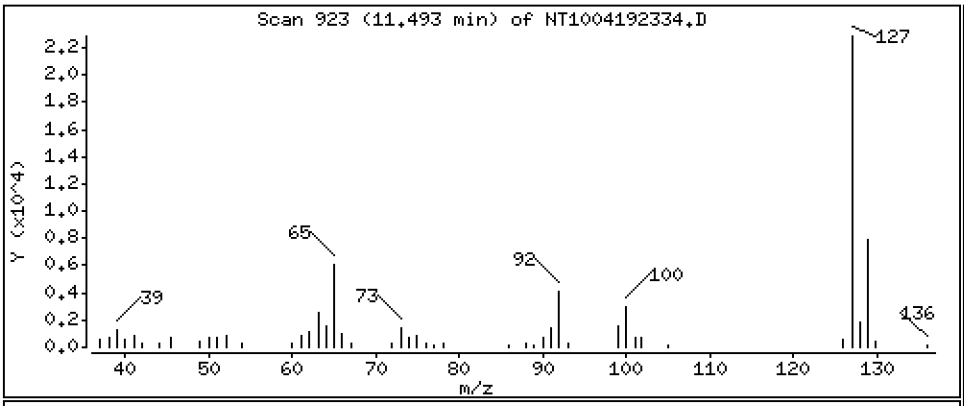
Operator: VTS

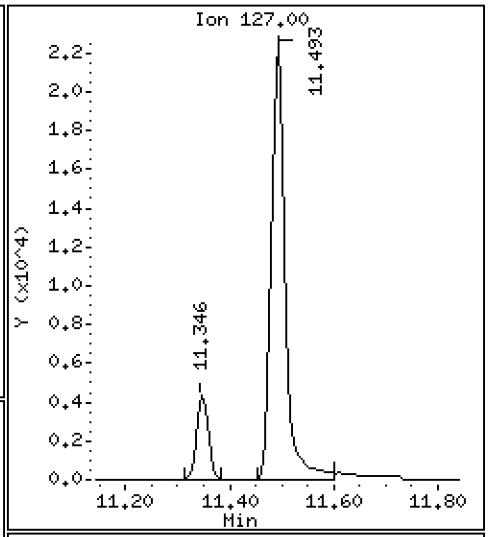
Column phase: ZB-5msi

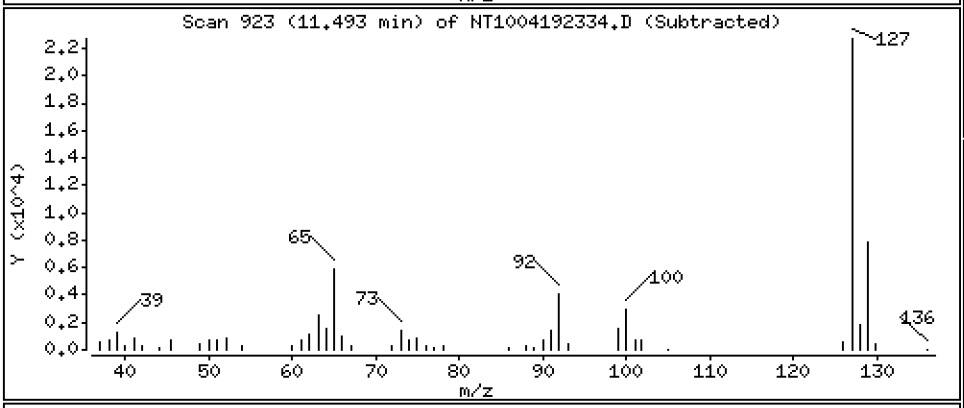
Column diameter: 0.25

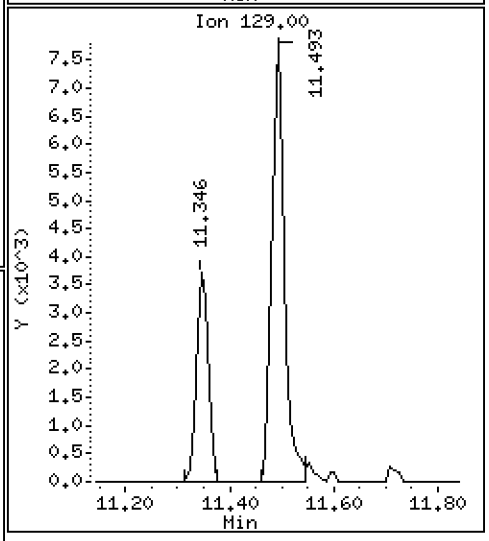
29 4-Chloroaniline

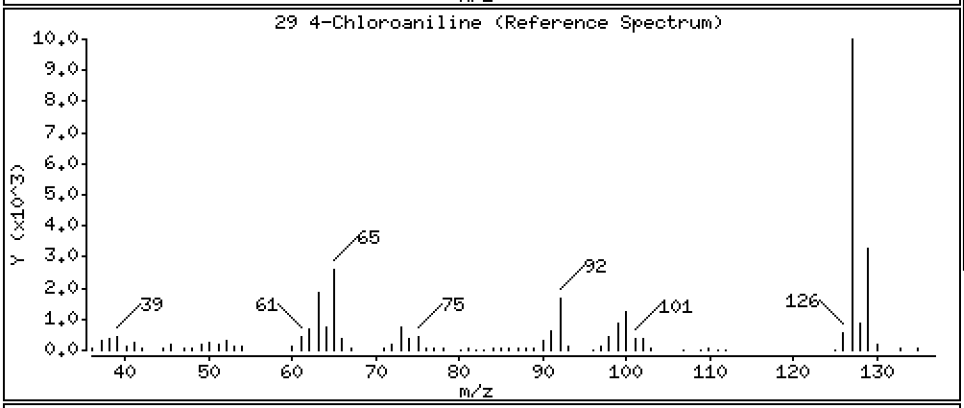
Concentration: 0.9309 ug/mL

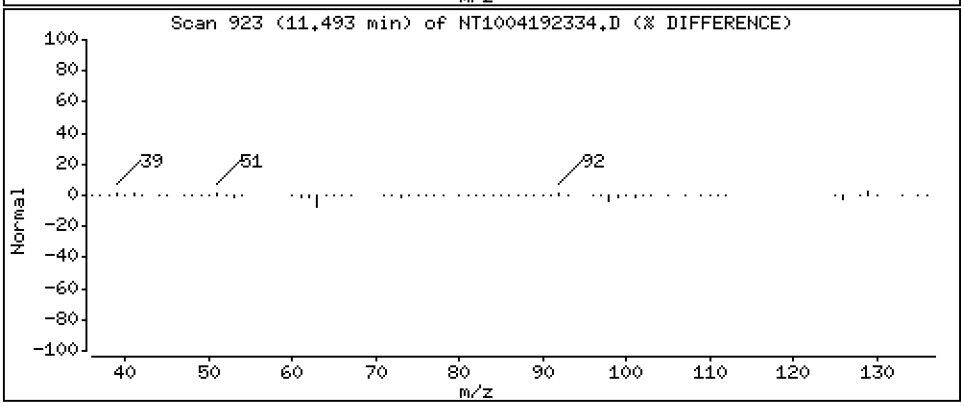












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

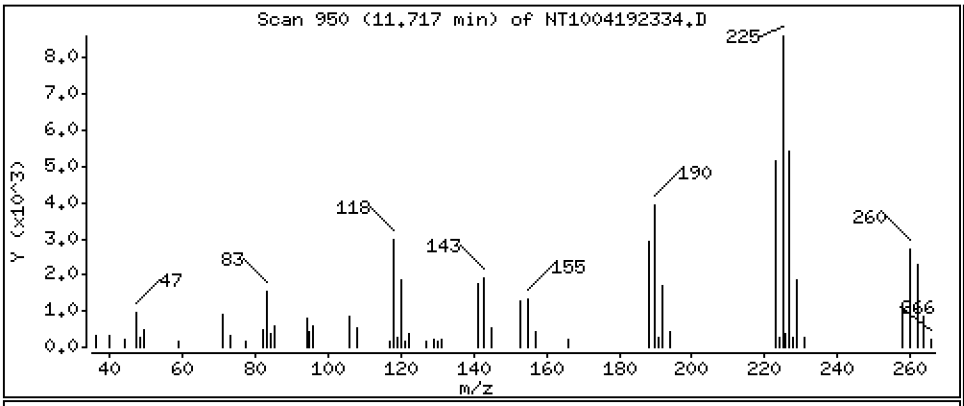
Operator: VTS

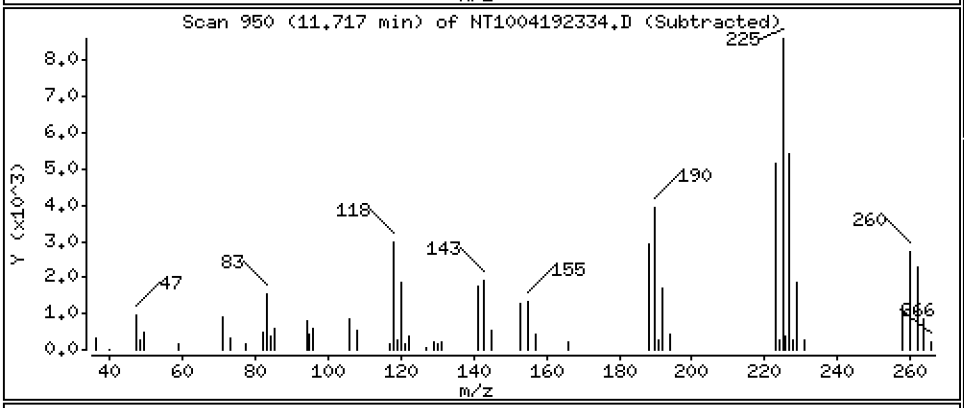
Column phase: ZB-5msi

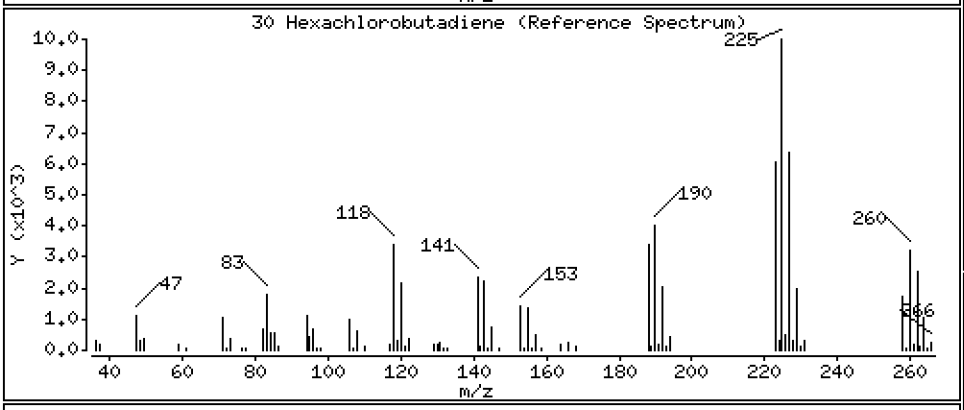
Column diameter: 0.25

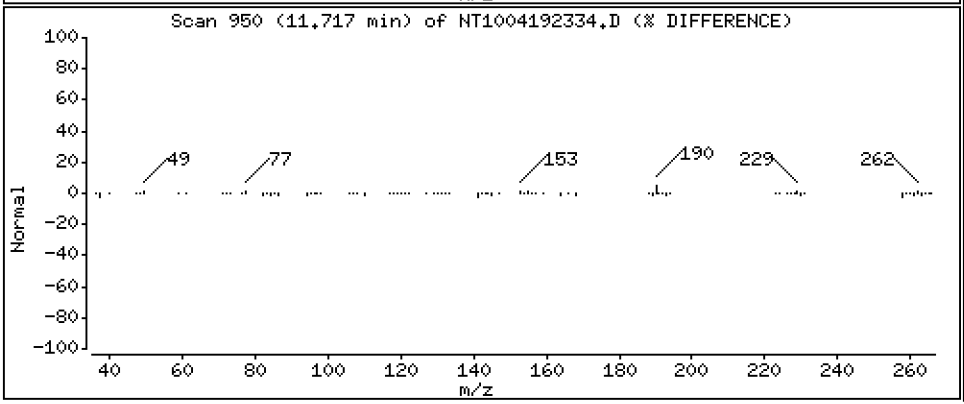
30 Hexachlorobutadiene

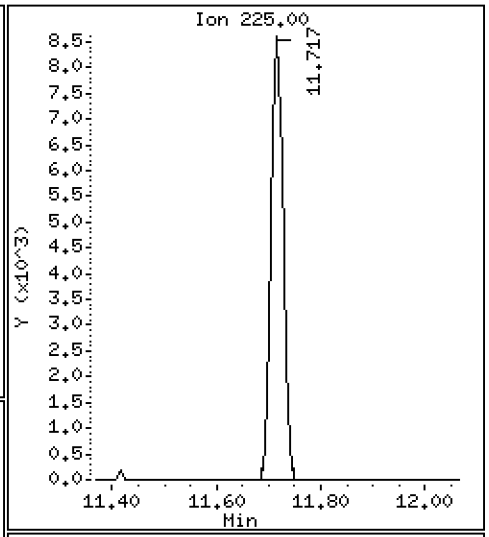
Concentration: 0.5578 ug/mL

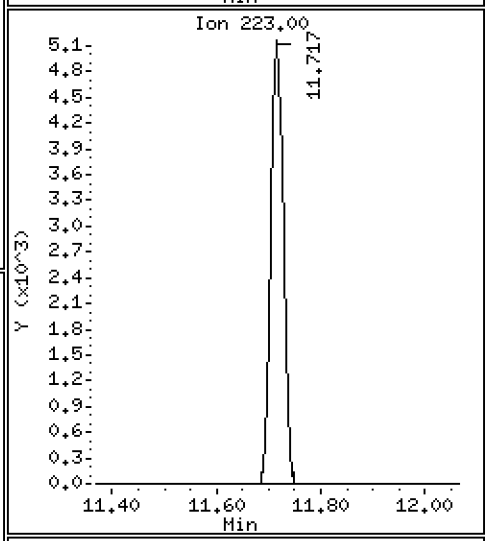


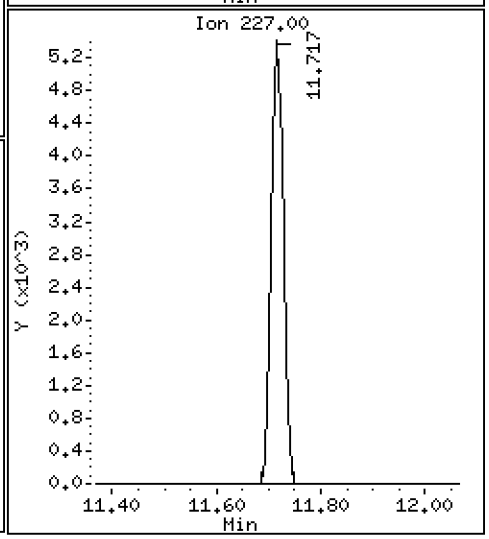












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

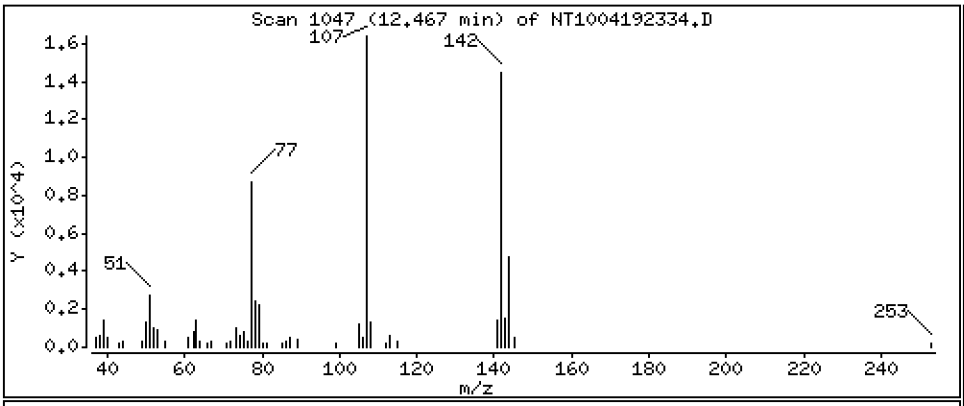
Operator: VTS

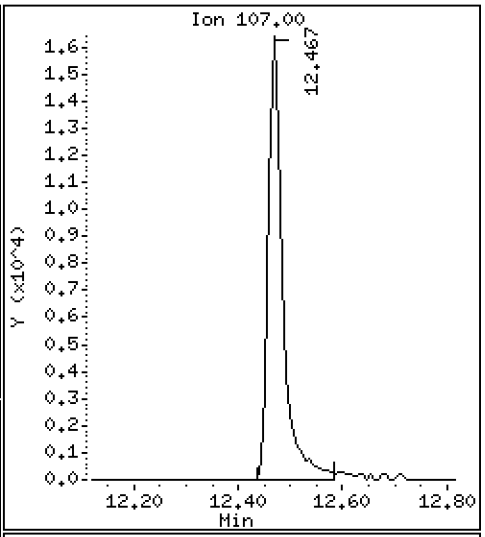
Column phase: ZB-5msi

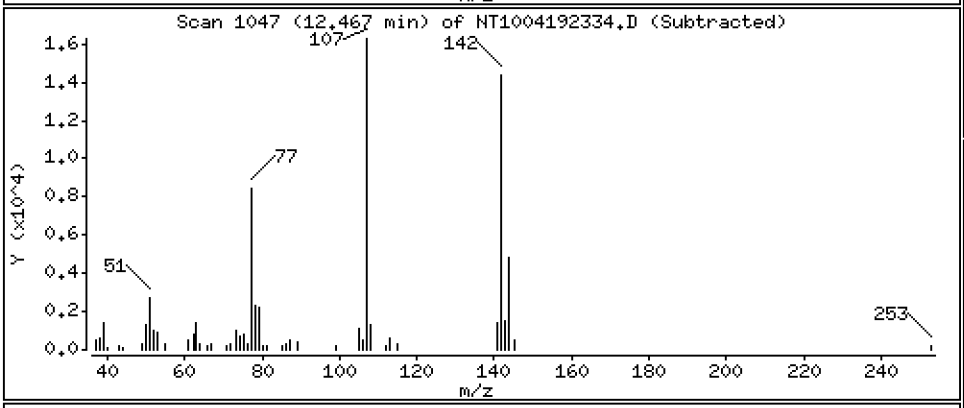
Column diameter: 0.25

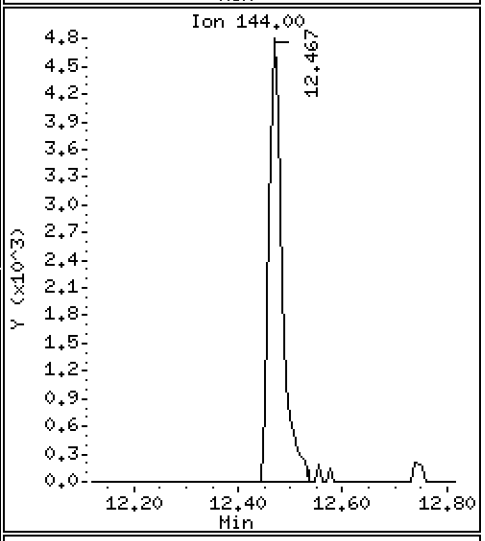
31 4-Chloro-3-methylphenol

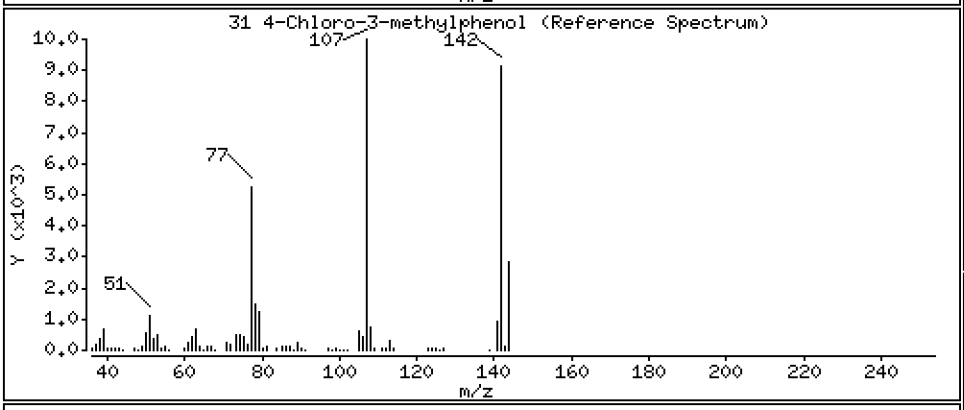
Concentration: 0.8273 ug/mL

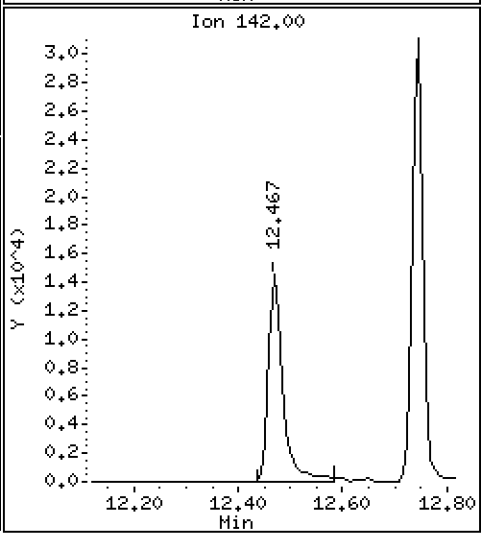


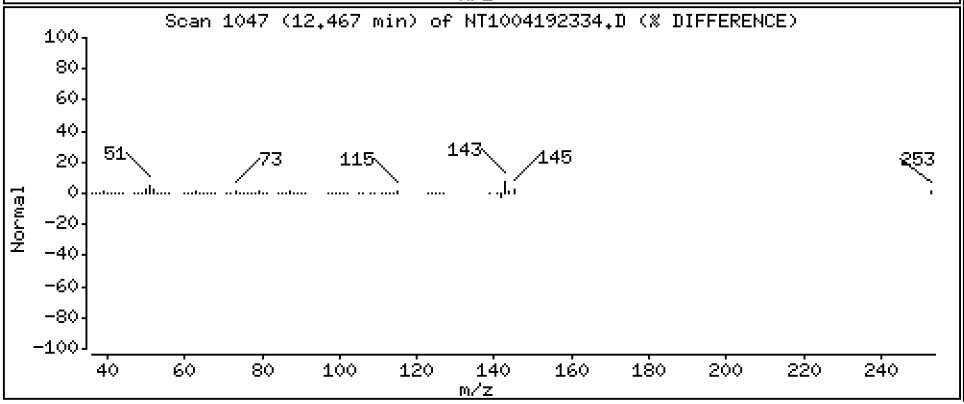












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

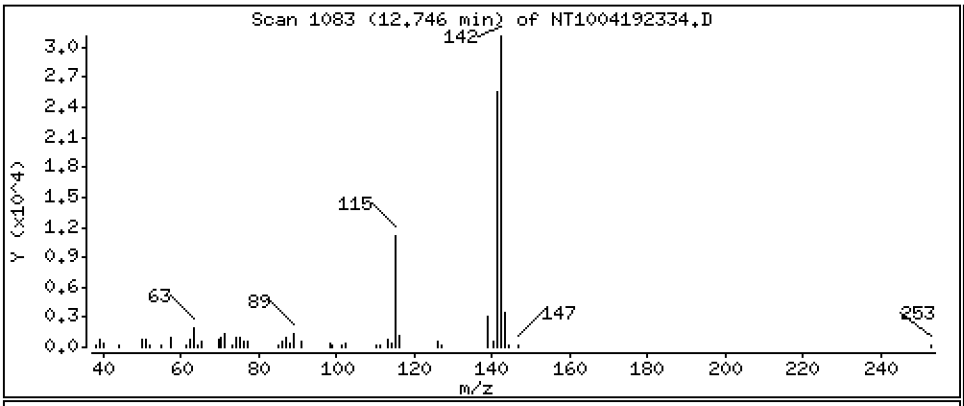
Operator: VTS

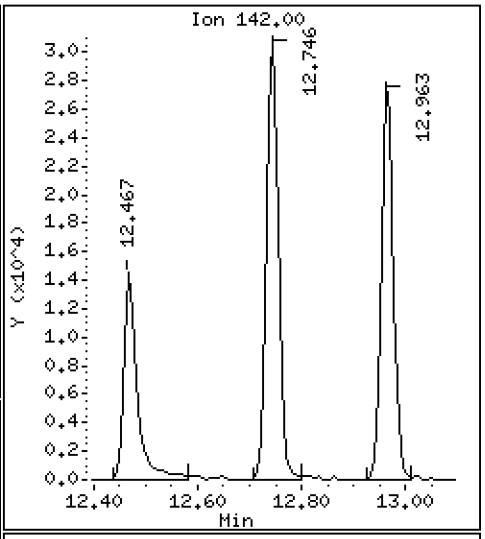
Column phase: ZB-5msi

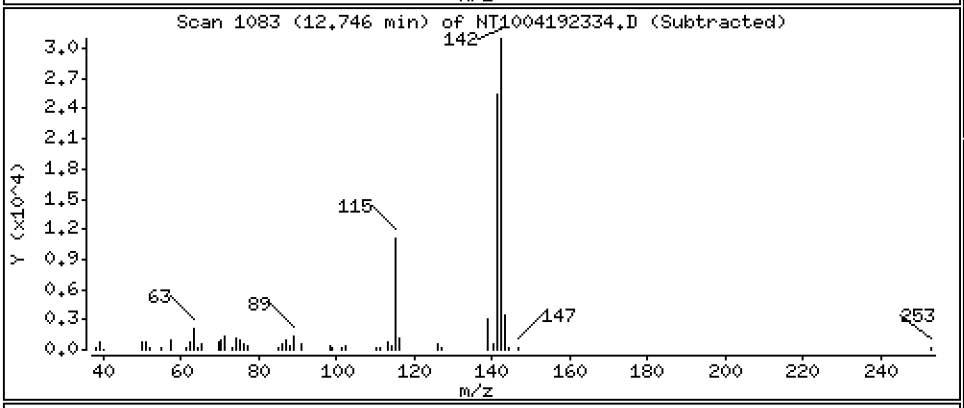
Column diameter: 0.25

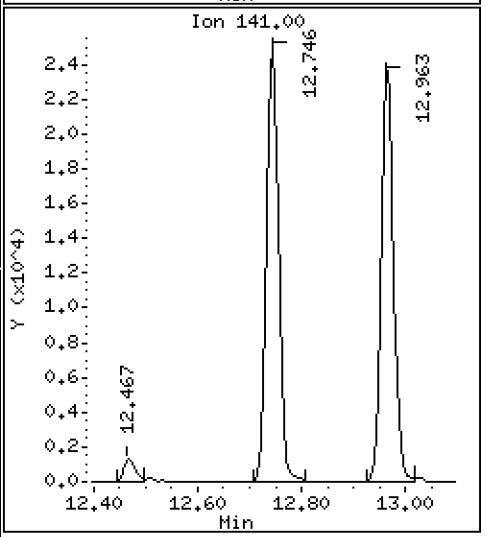
32 2-Methylnaphthalene

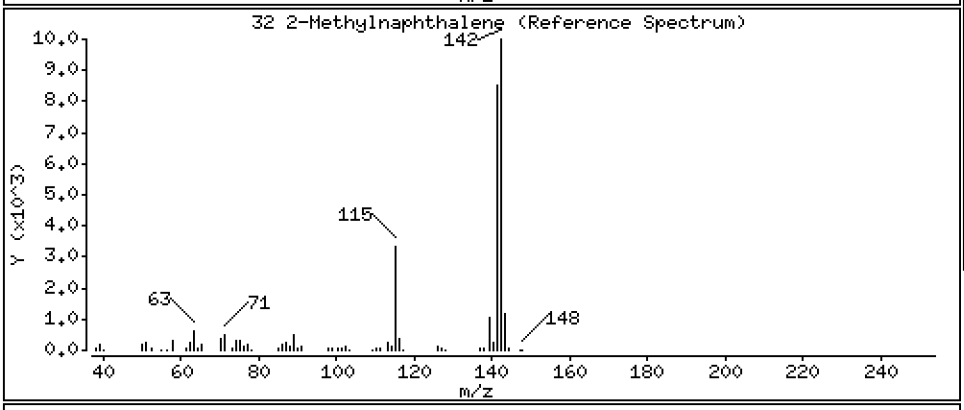
Concentration: 0.5200 ug/mL

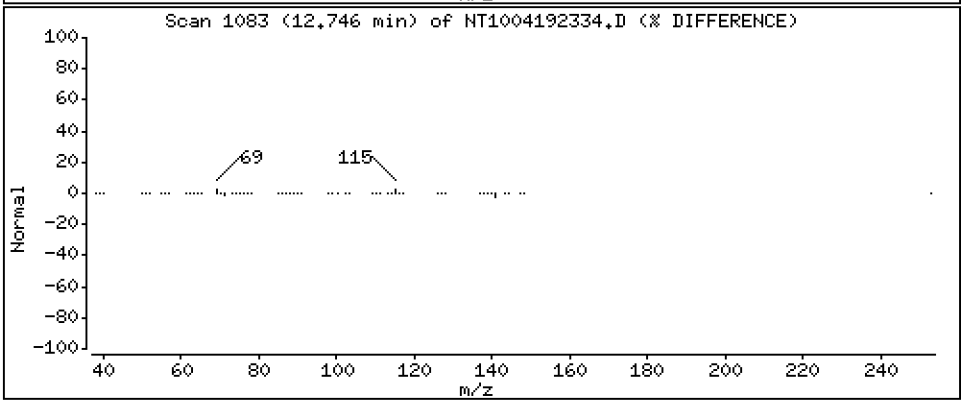












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

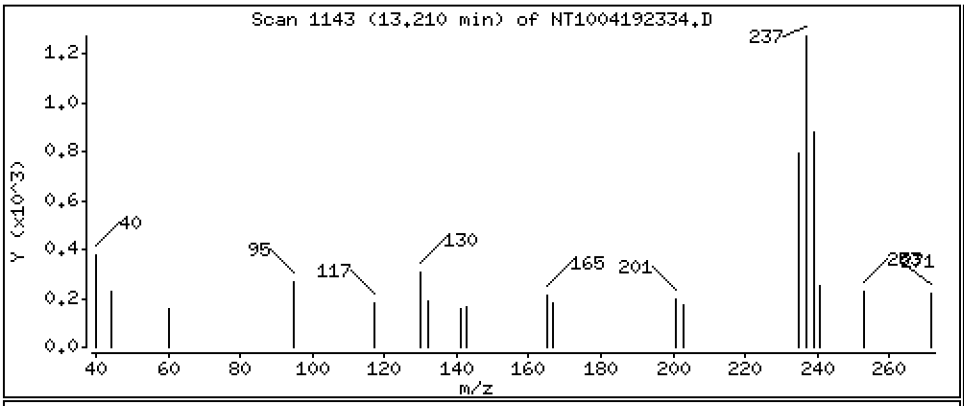
Operator: VTS

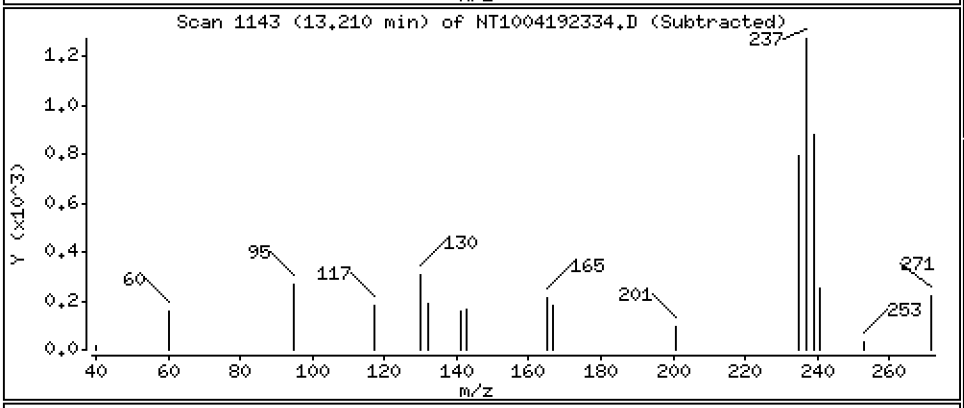
Column phase: ZB-5msi

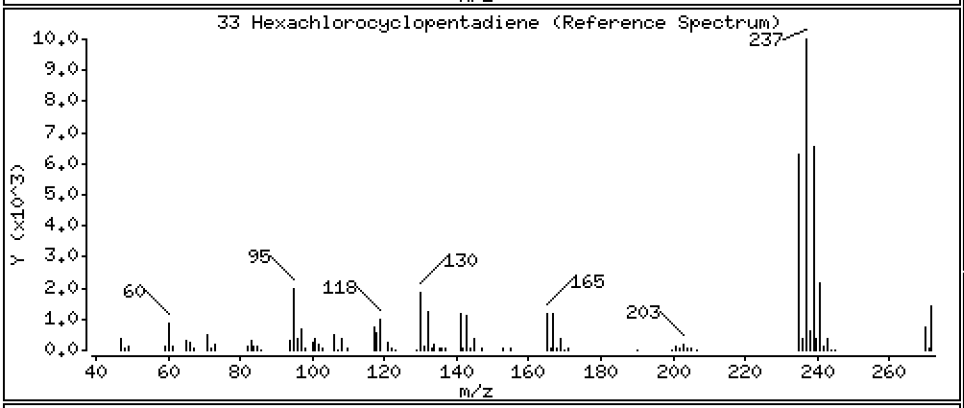
Column diameter: 0.25

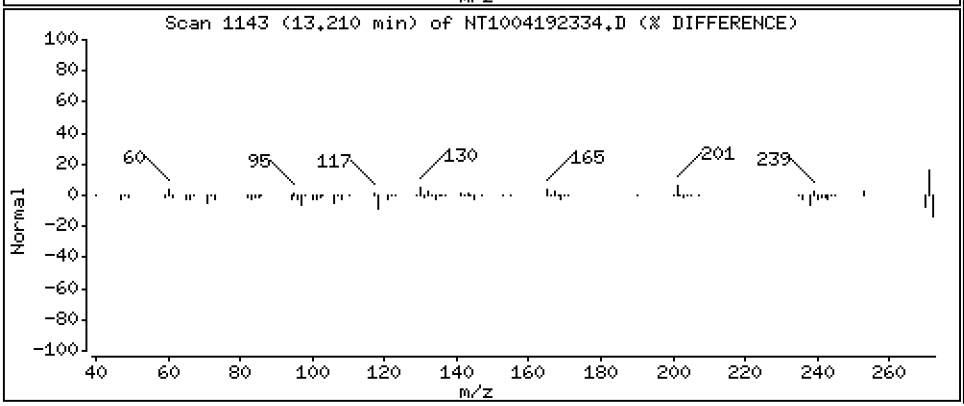
33 Hexachlorocyclopentadiene

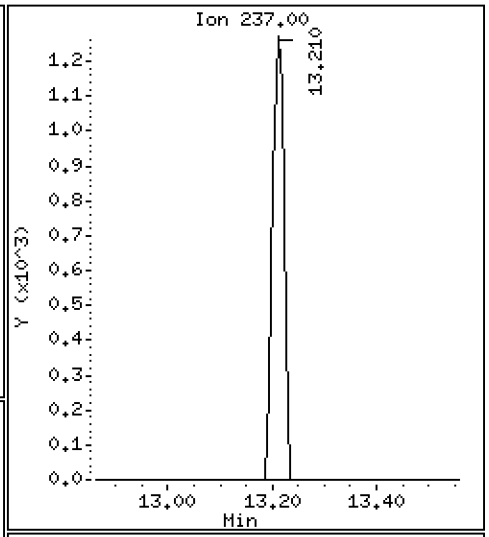
Concentration: 0.07330 ug/mL

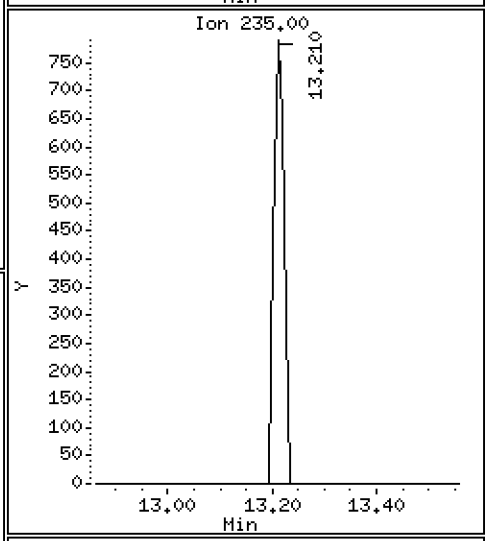


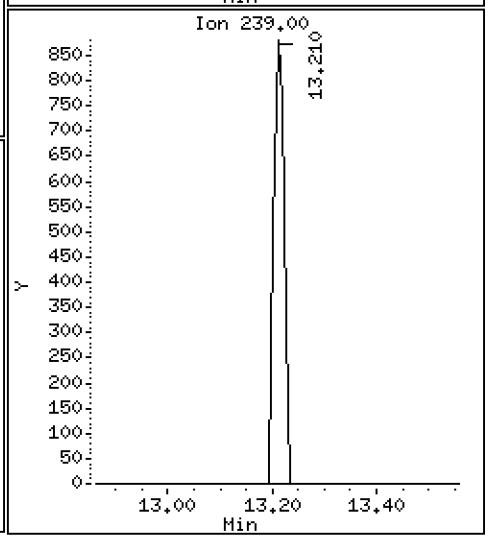












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

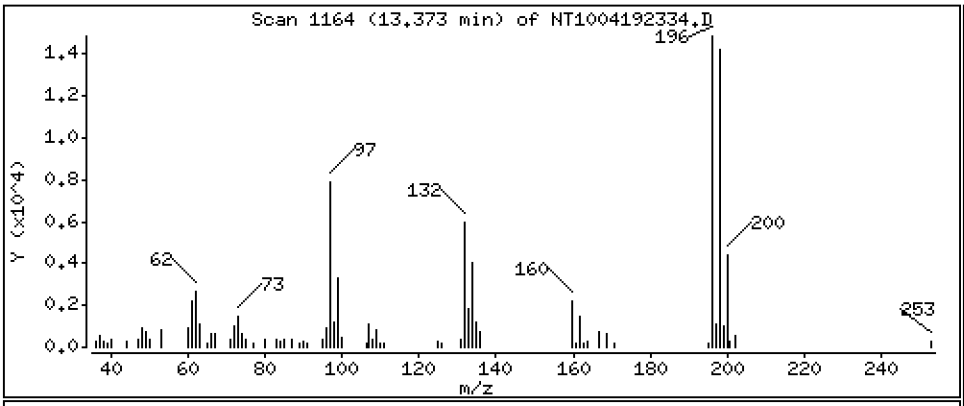
Operator: VTS

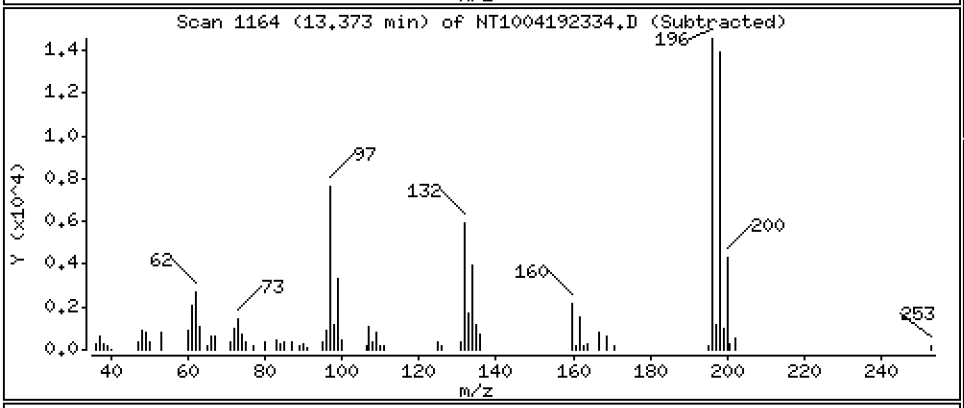
Column phase: ZB-5msi

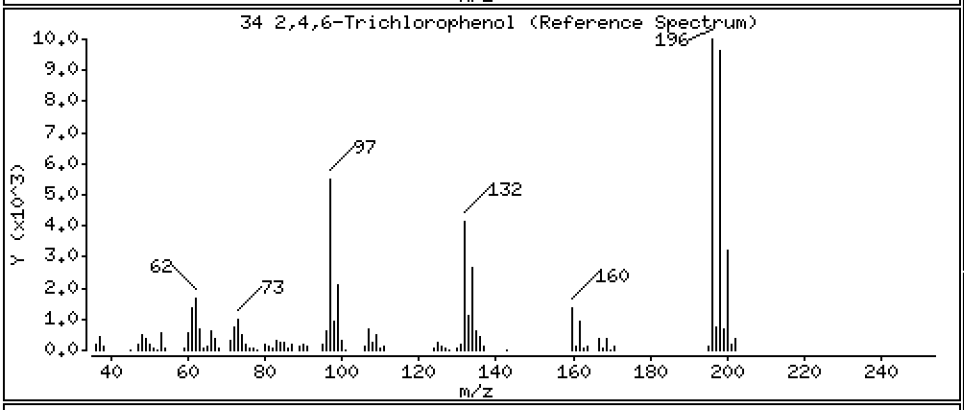
Column diameter: 0.25

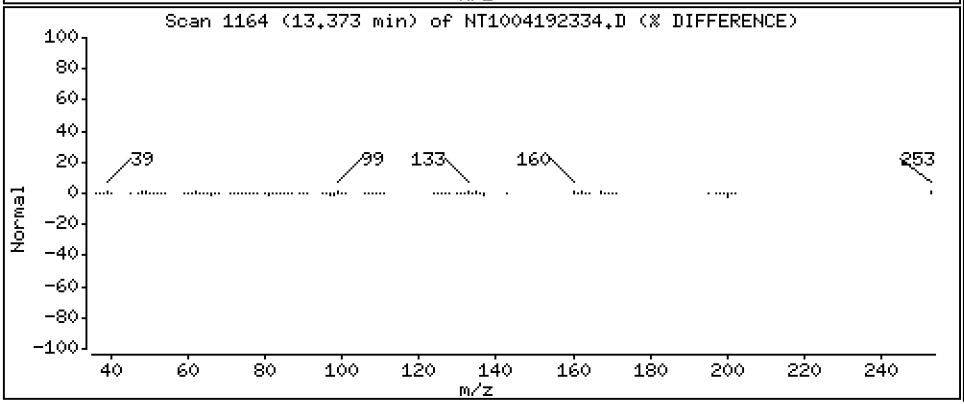
34 2,4,6-Trichlorophenol

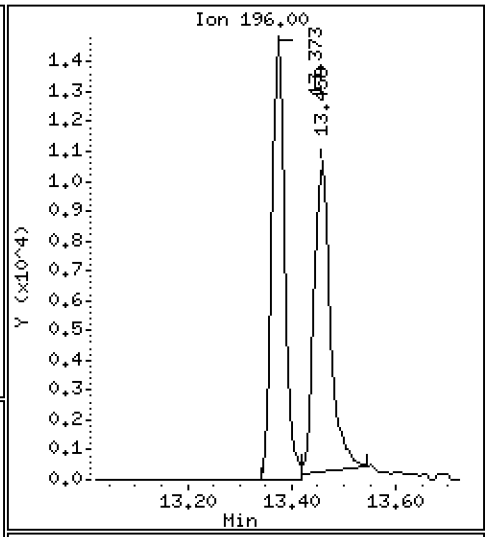
Concentration: 0.9052 ug/mL

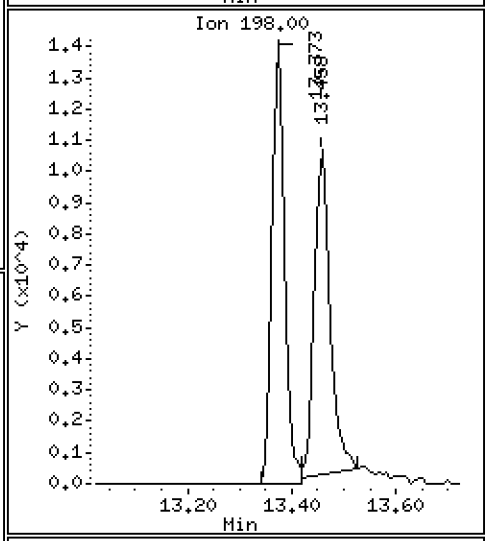


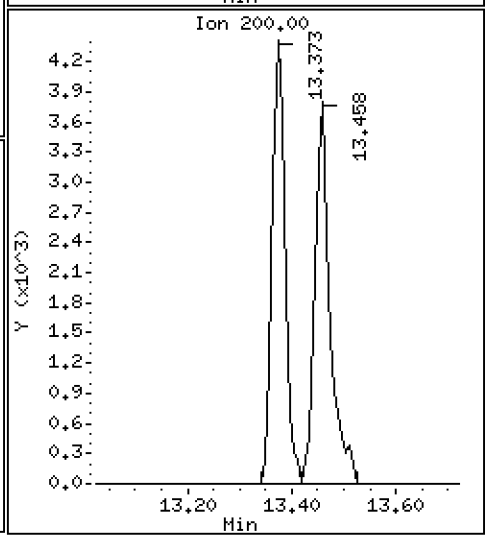












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

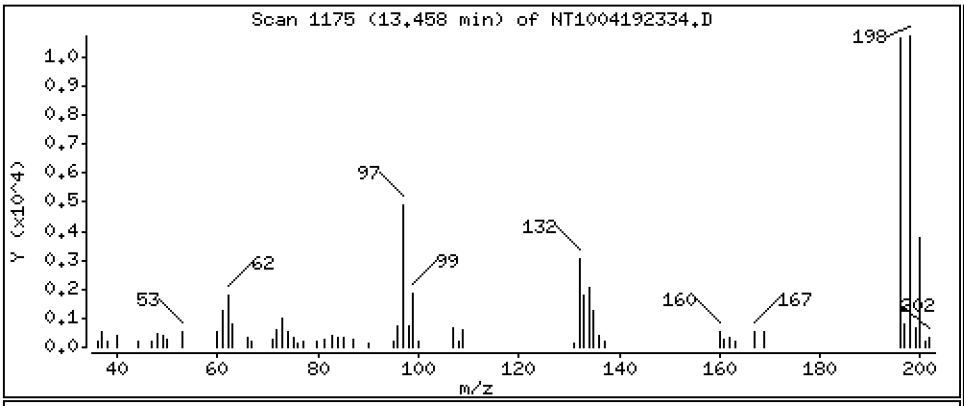
Operator: VTS

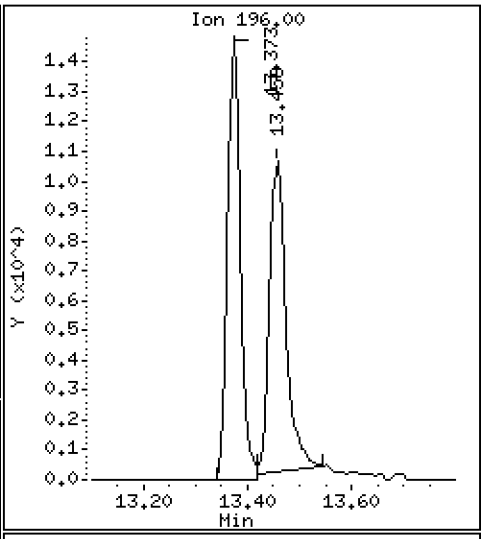
Column phase: ZB-5msi

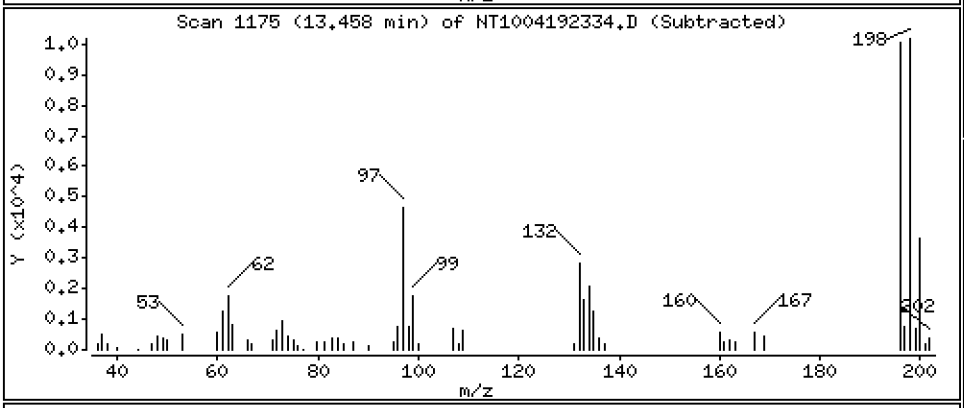
Column diameter: 0.25

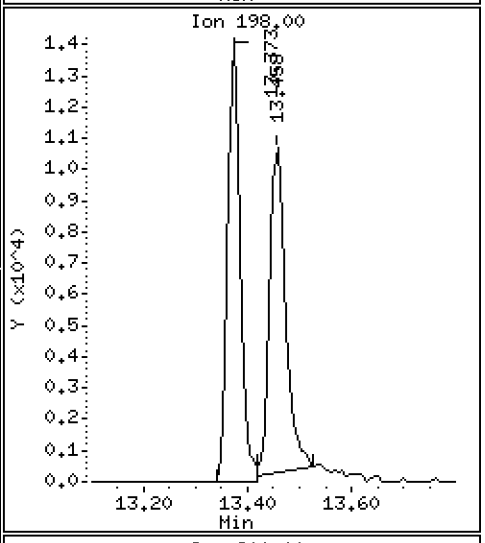
35 2,4,5-Trichlorophenol

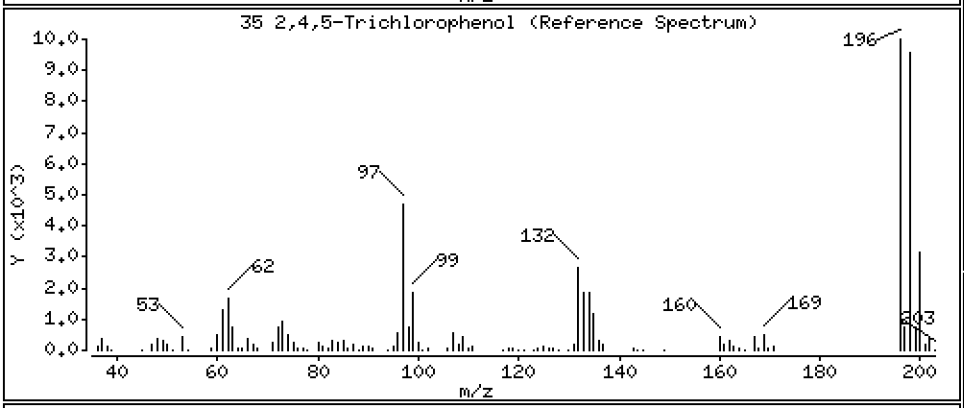
Concentration: 0.7459 ug/mL

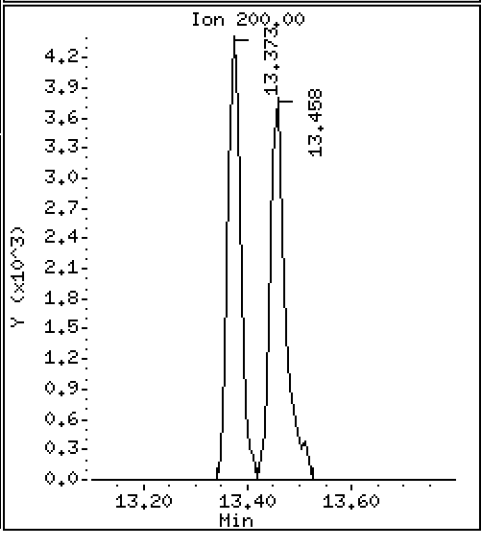


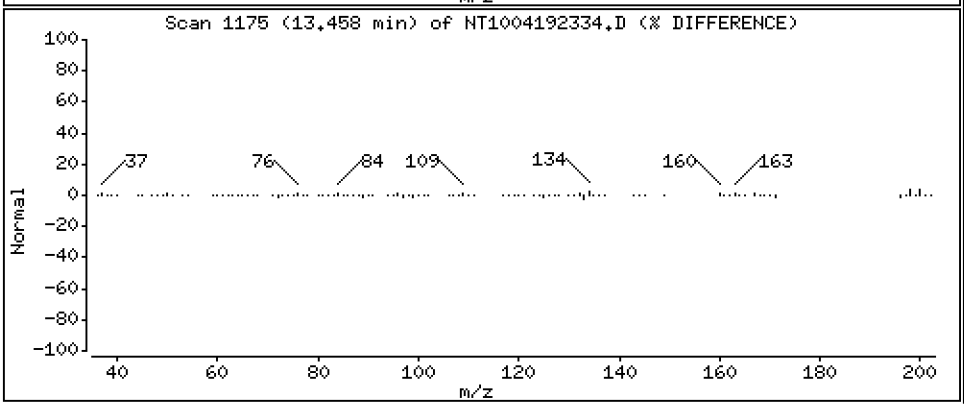












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

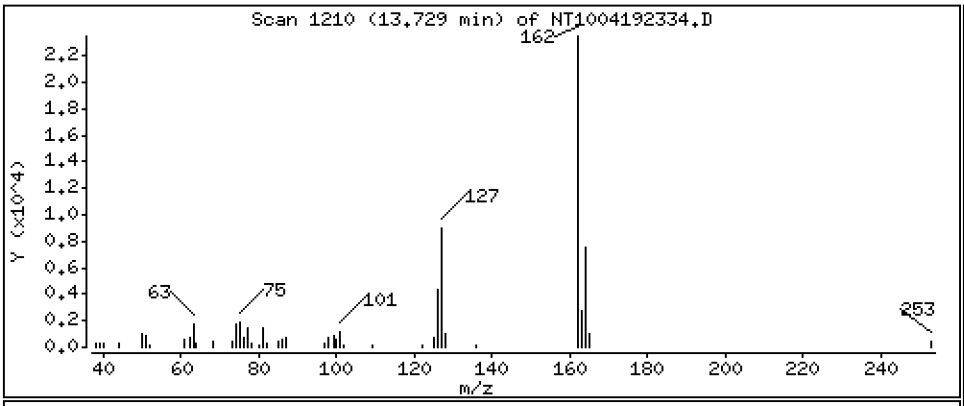
Operator: VTS

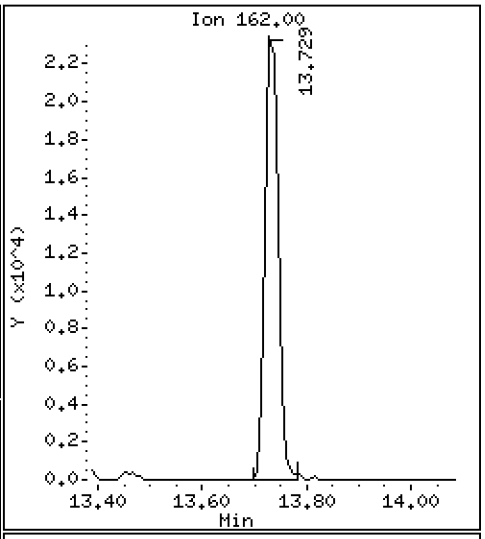
Column phase: ZB-5msi

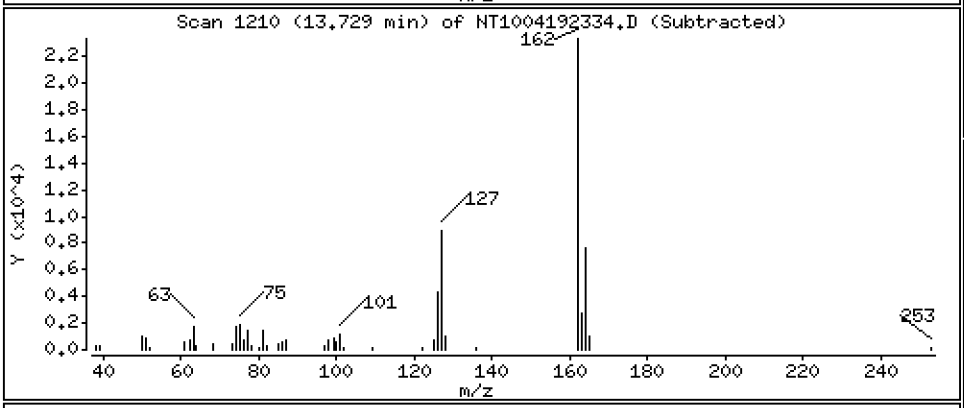
Column diameter: 0.25

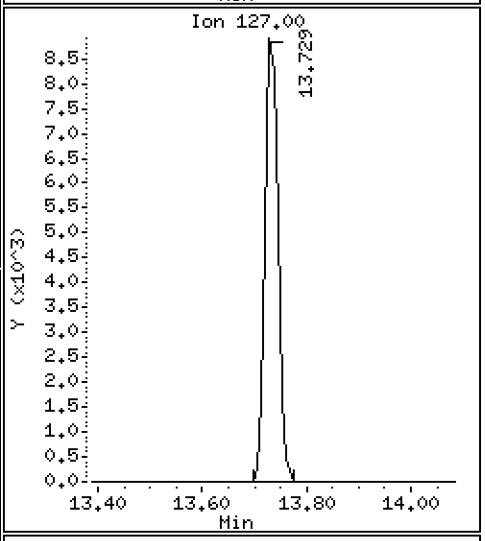
37 2-Chloronaphthalene

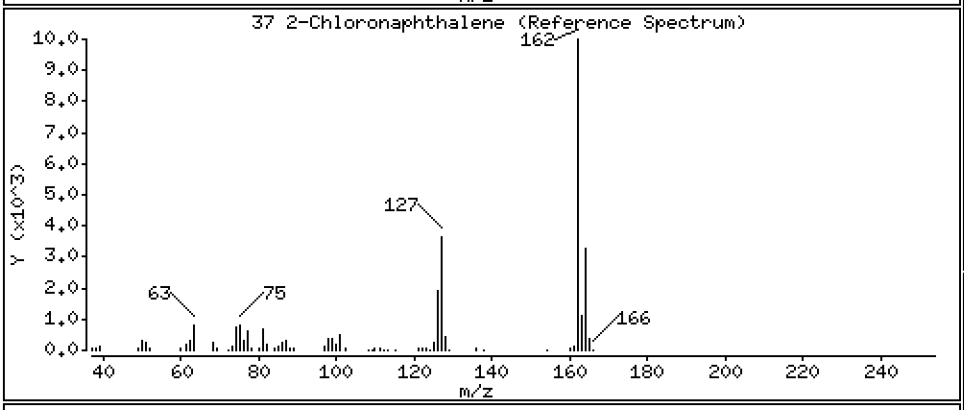
Concentration: 0.4545 ug/mL

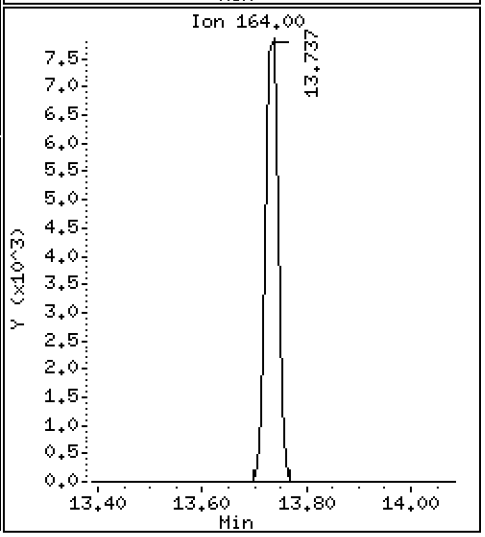


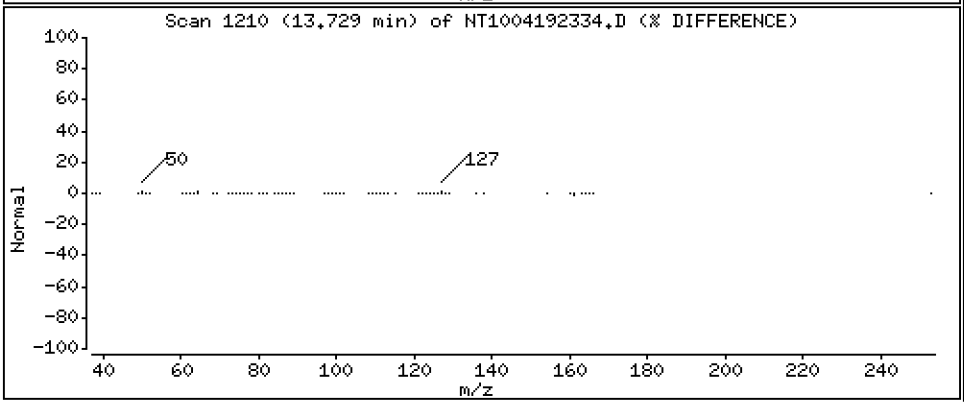












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

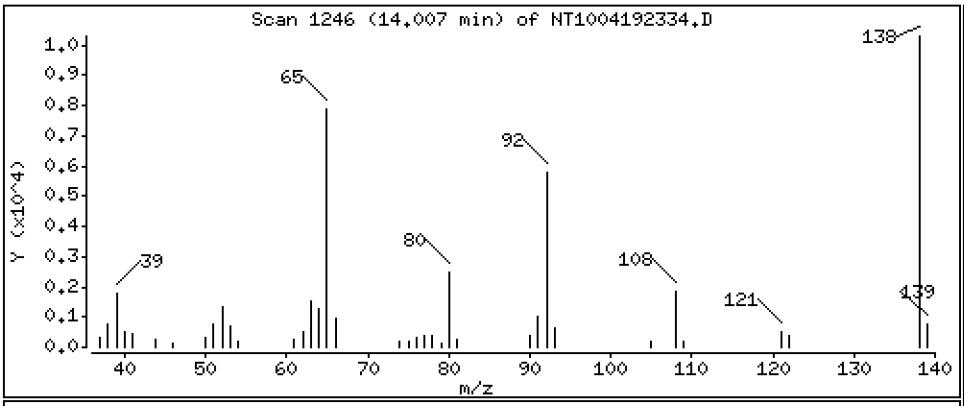
Operator: VTS

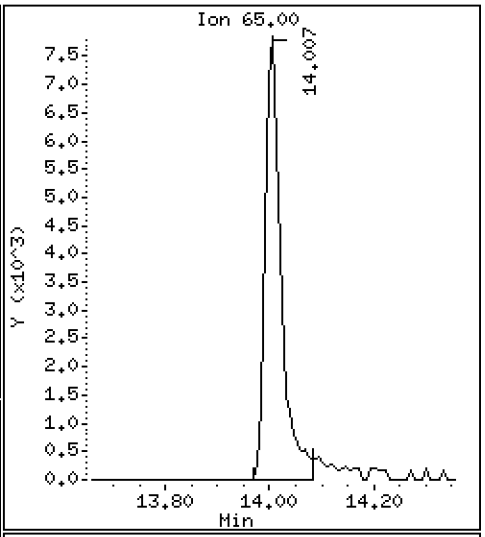
Column phase: ZB-5msi

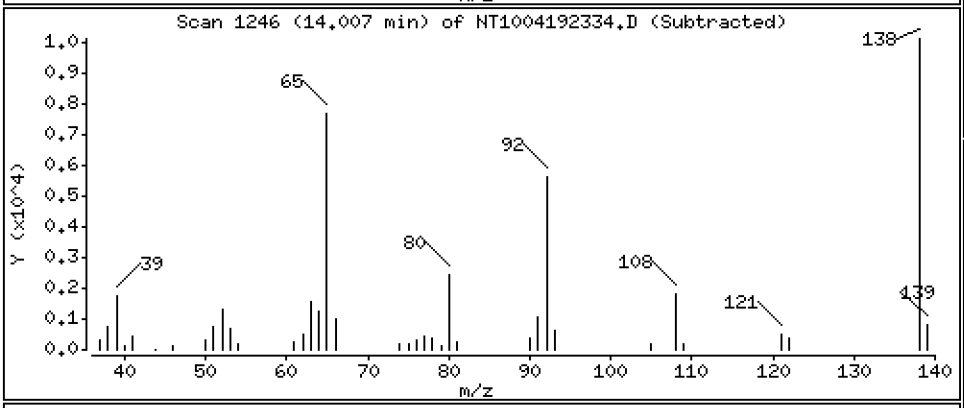
Column diameter: 0.25

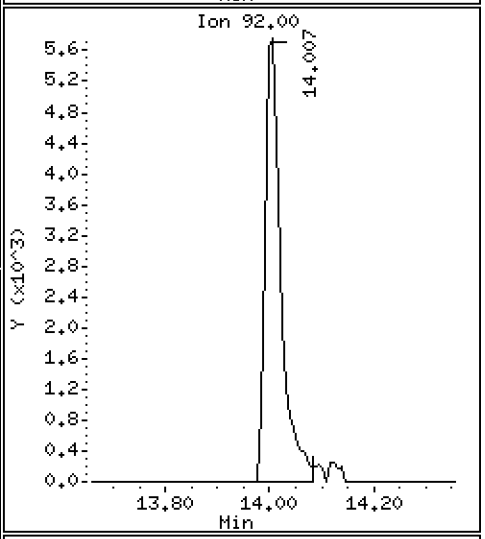
38 2-Nitroaniline

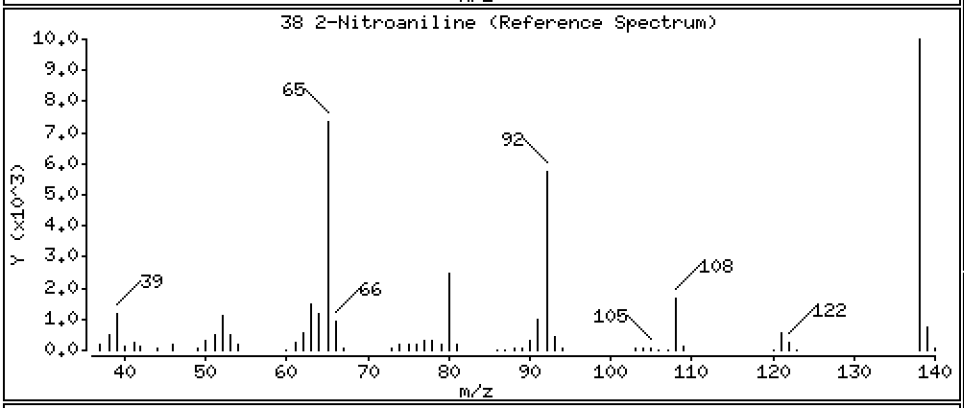
Concentration: 0.6682 ug/mL

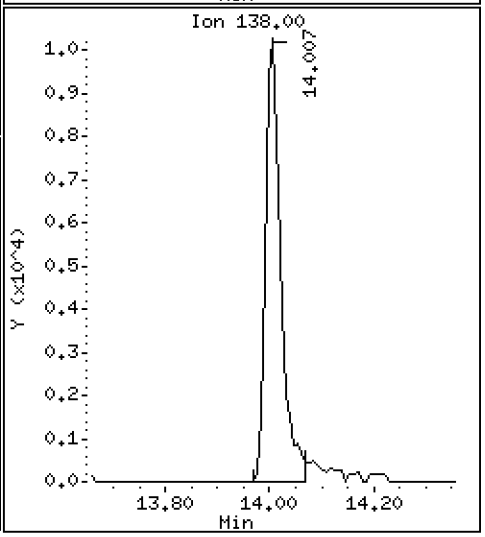


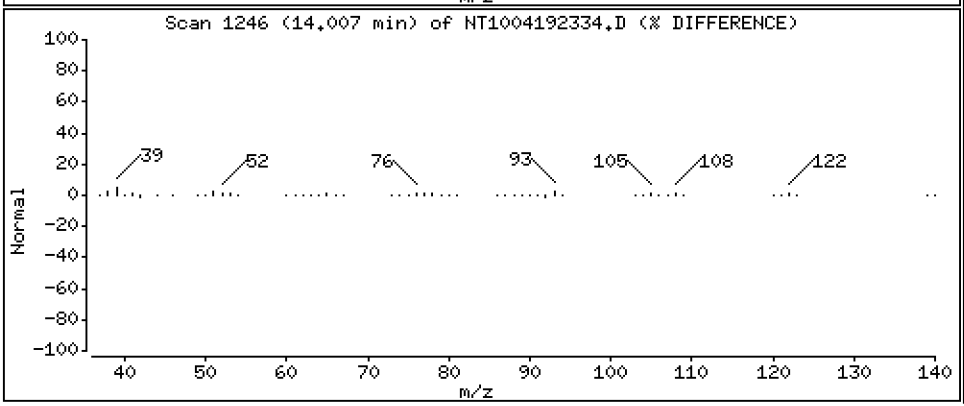












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

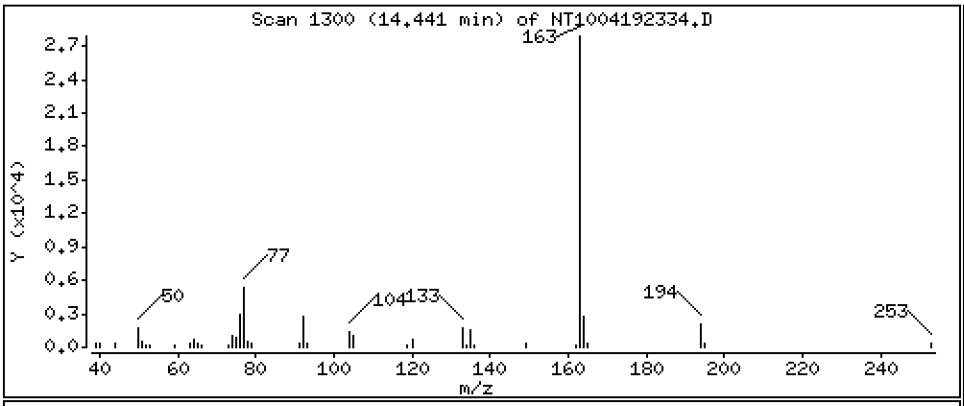
Operator: VTS

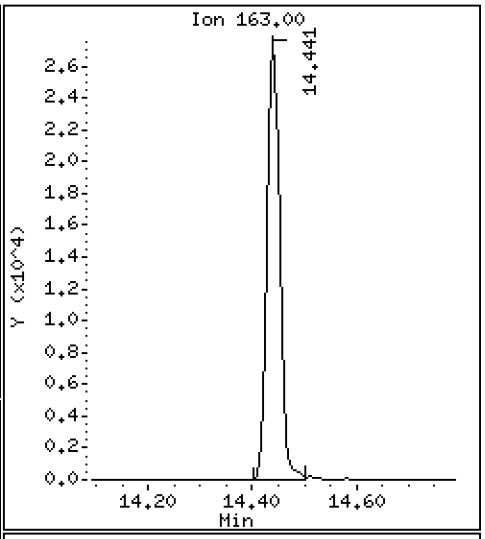
Column phase: ZB-5msi

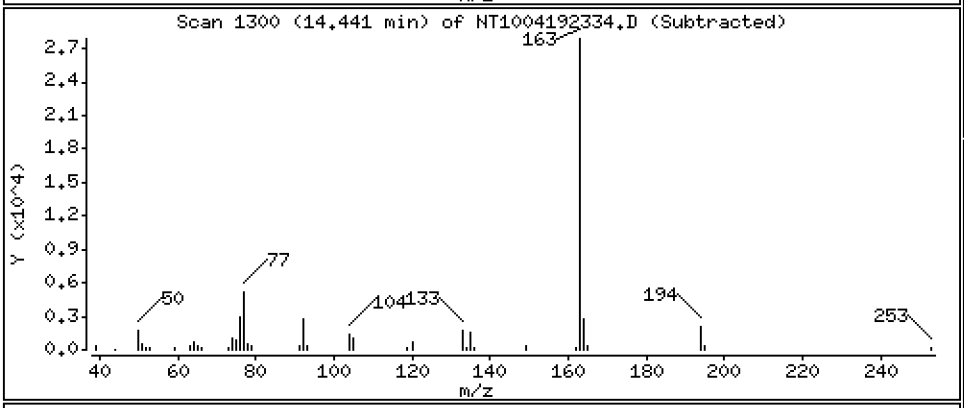
Column diameter: 0.25

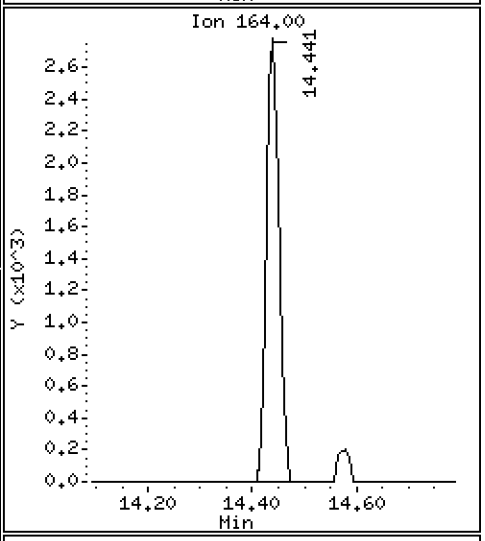
39 Dimethylphthalate

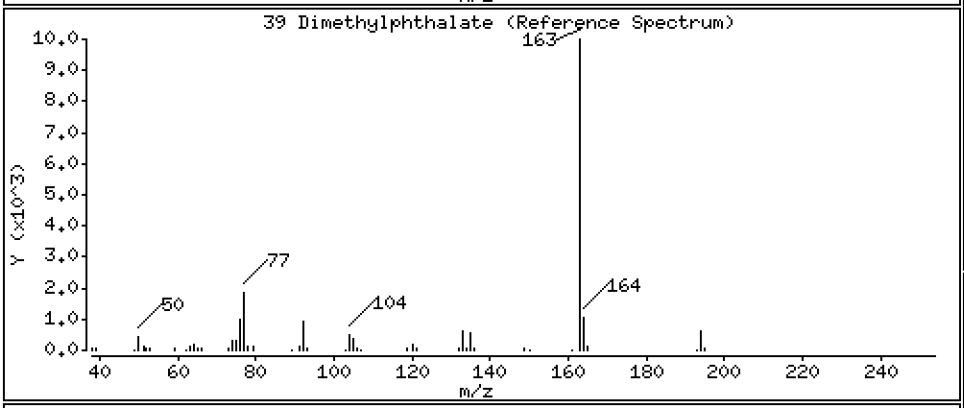
Concentration: 0.5060 ug/mL

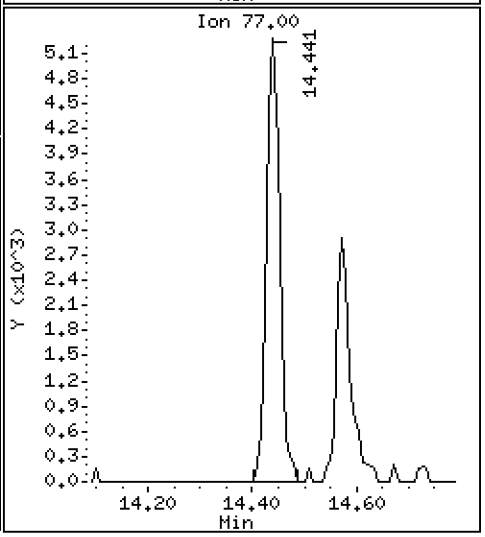


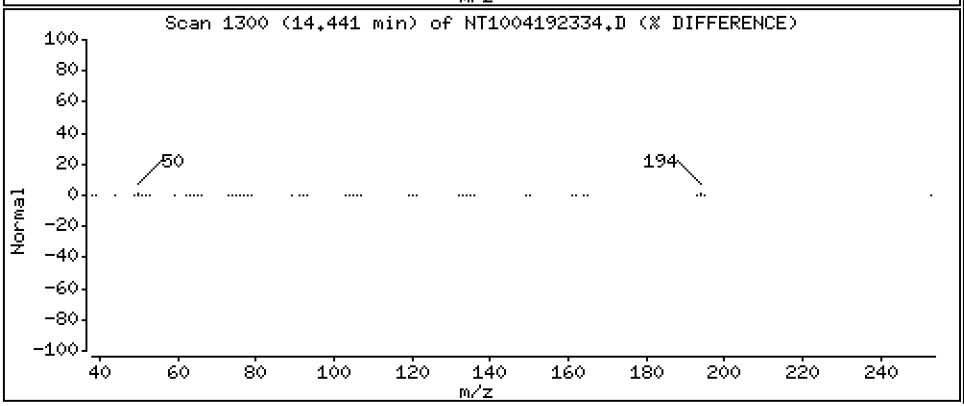












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192334.D

Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

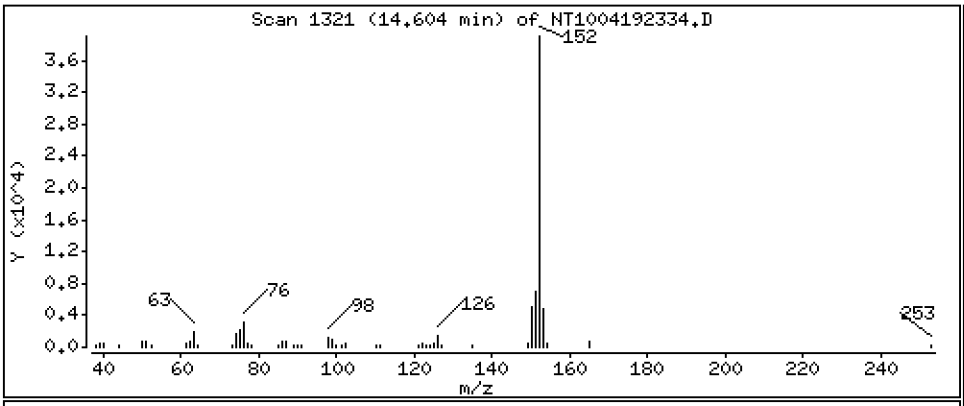
Operator: VTS

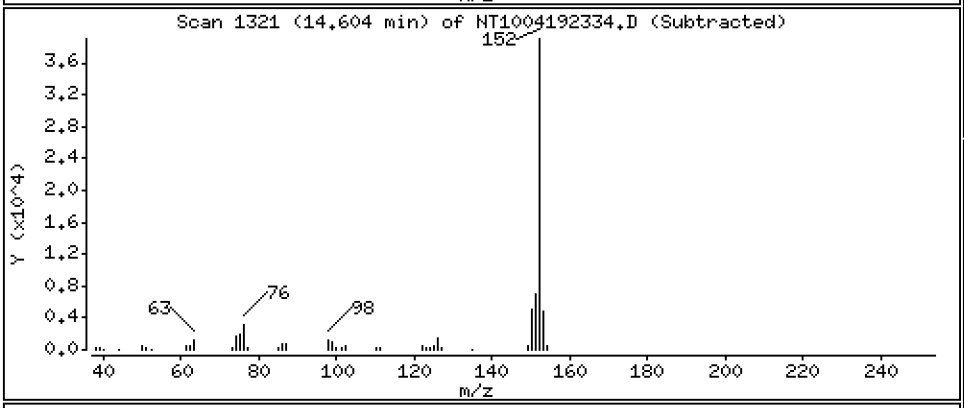
Column phase: ZB-5msi

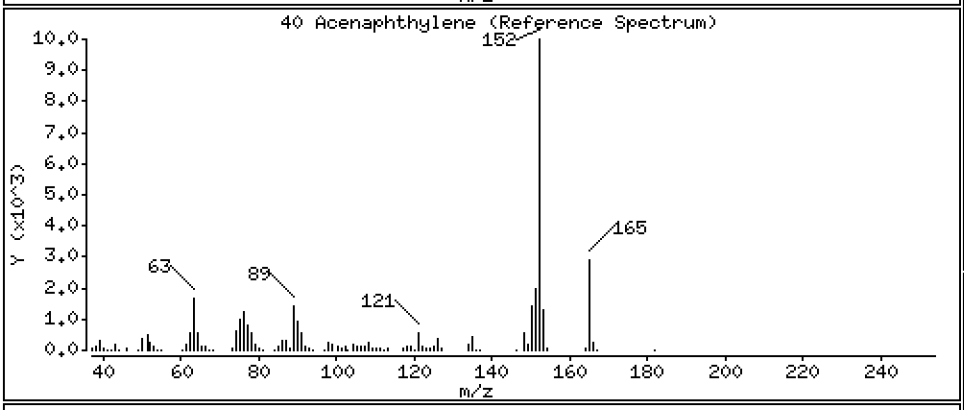
Column diameter: 0.25

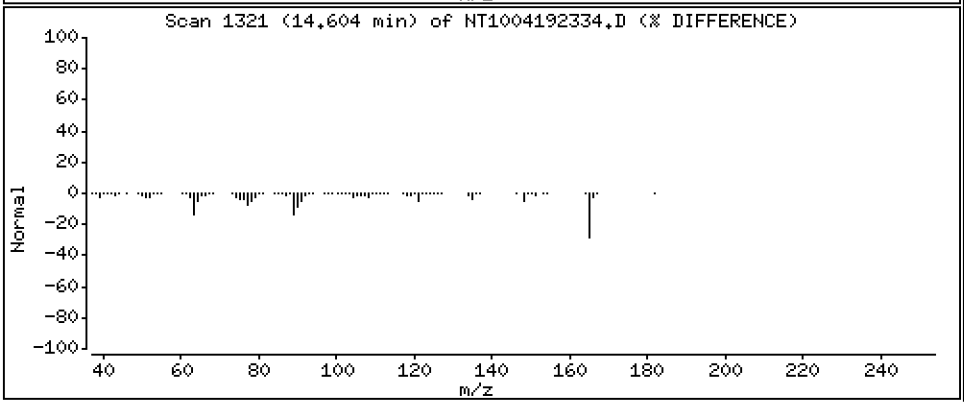
40 Acenaphthylene

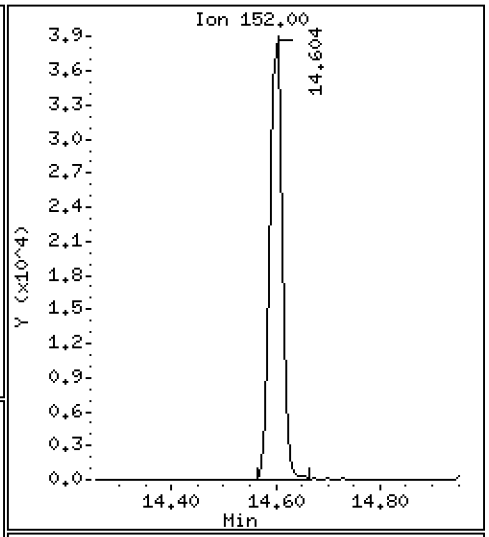
Concentration: 0.4486 ug/mL

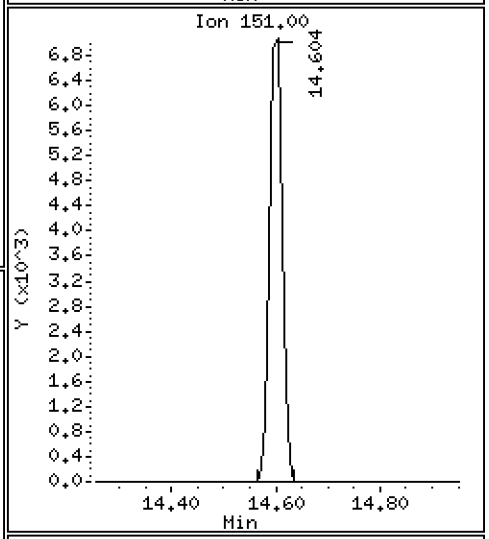


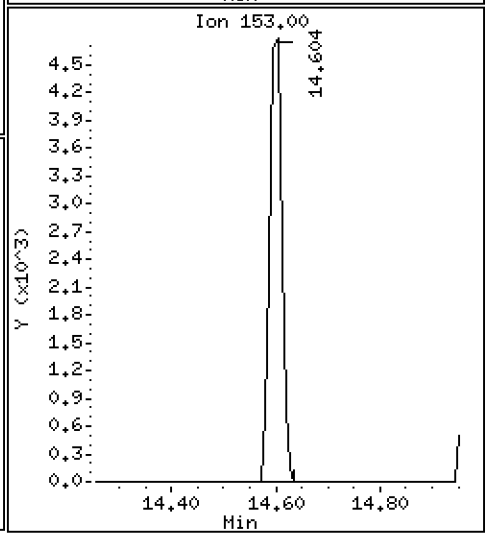












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

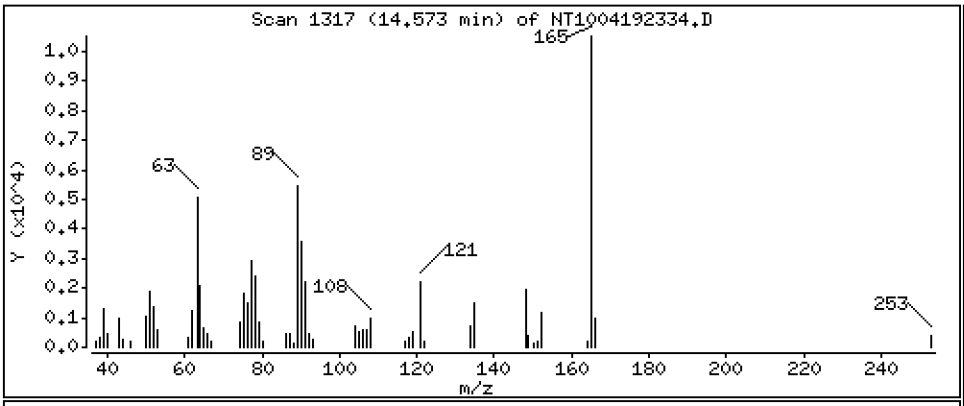
Operator: VTS

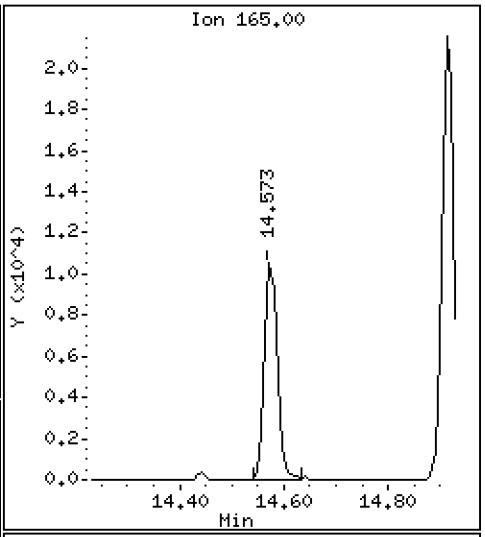
Column phase: ZB-5msi

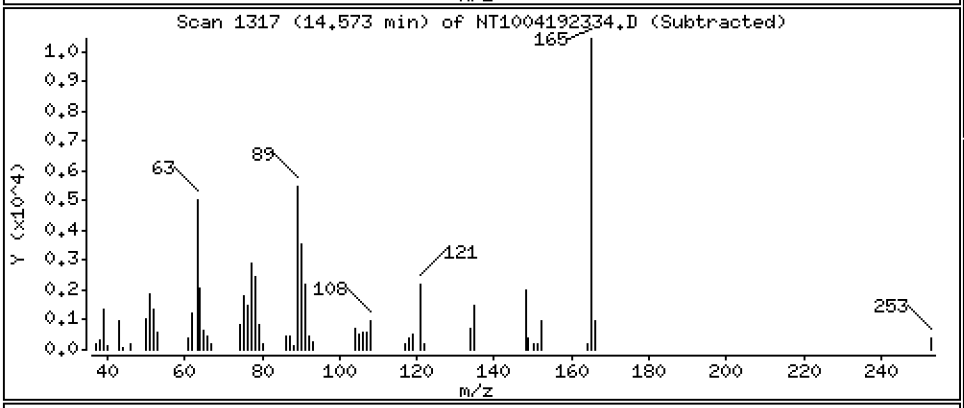
Column diameter: 0.25

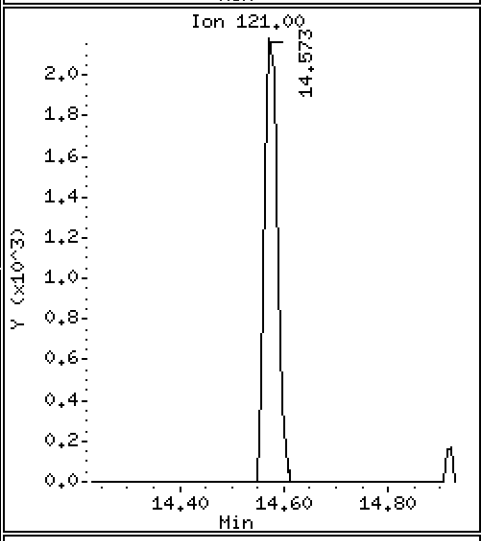
41 2,6-Dinitrotoluene

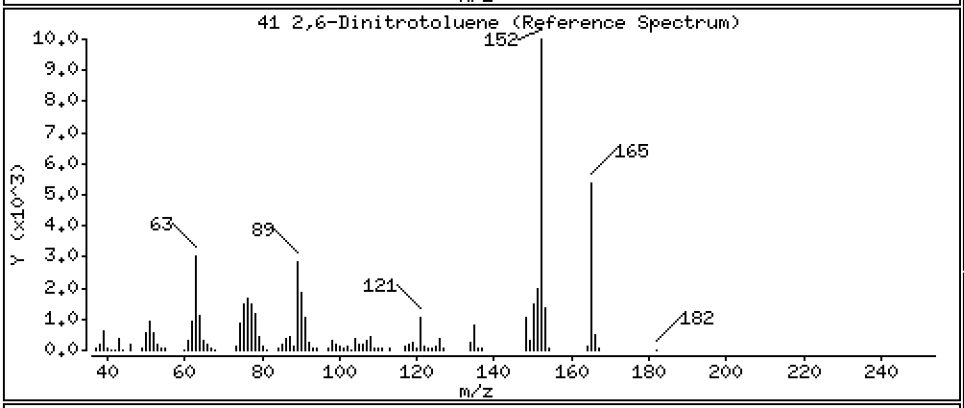
Concentration: 0.9073 ug/mL

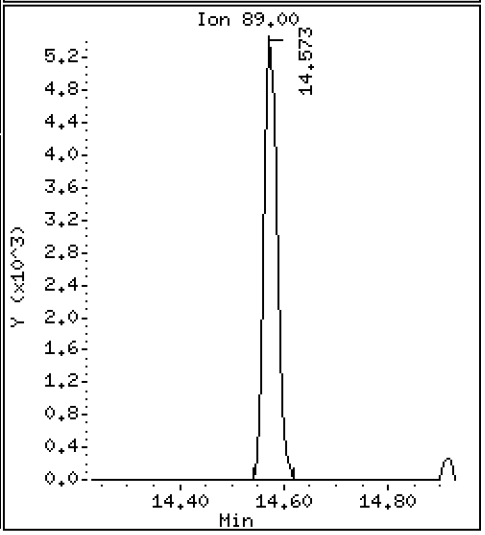


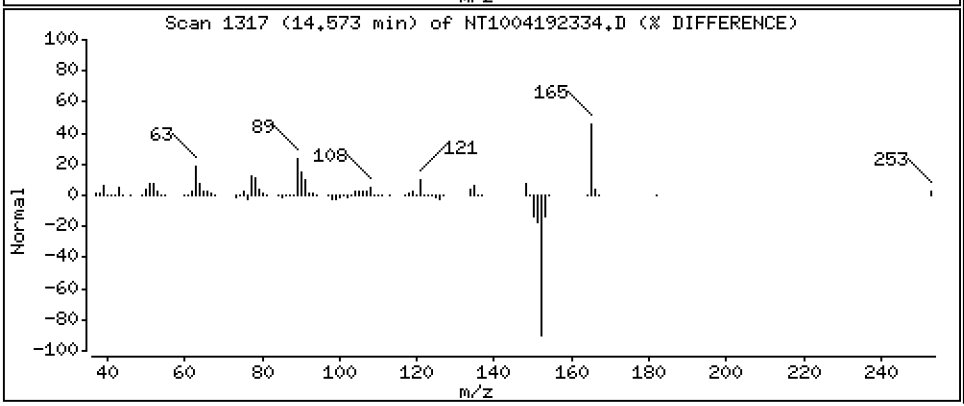












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

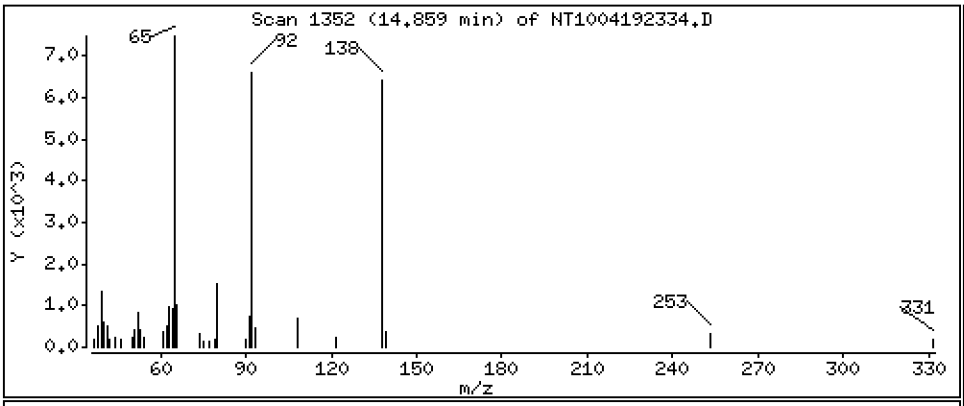
Operator: VTS

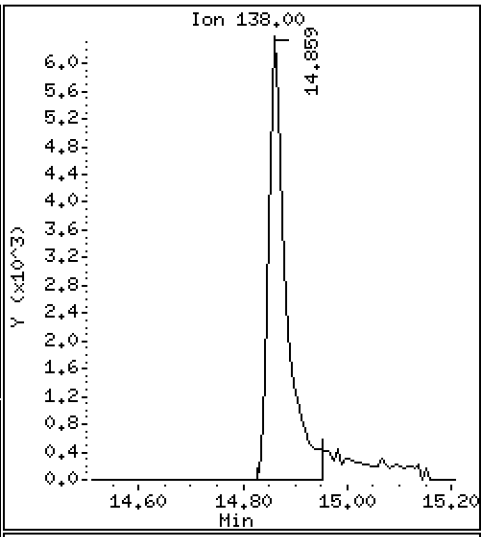
Column phase: ZB-5msi

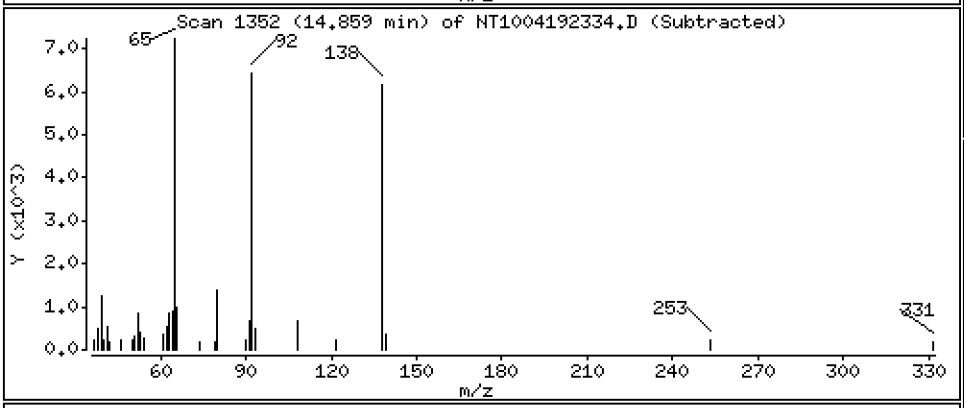
Column diameter: 0.25

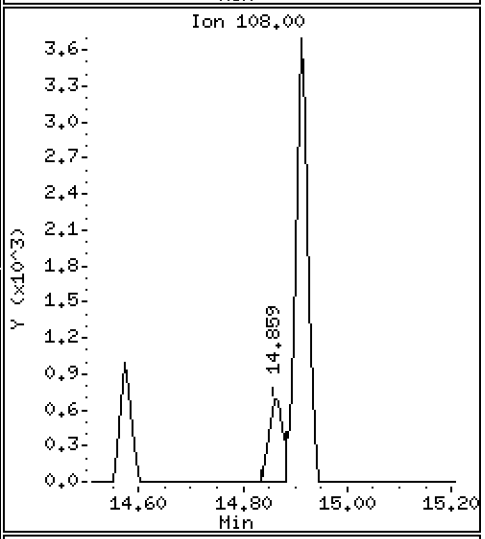
43 3-Nitroaniline

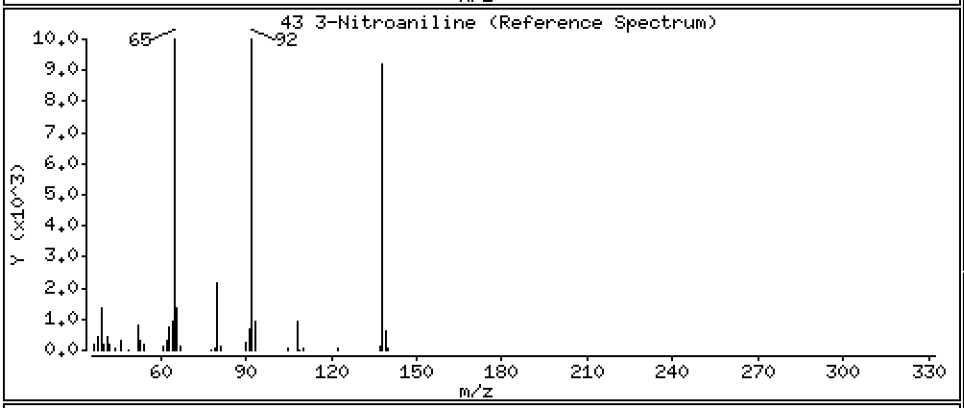
Concentration: 0.6796 ug/mL

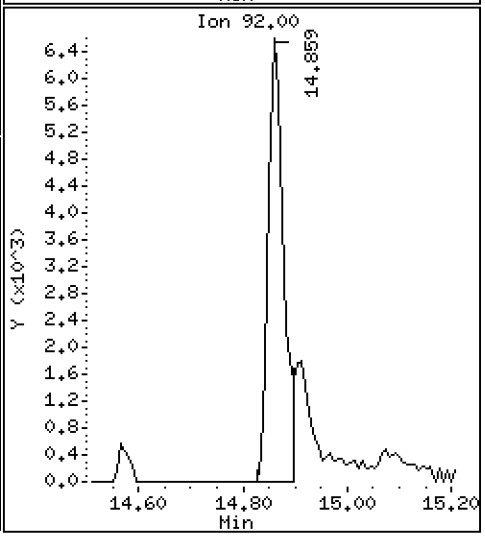


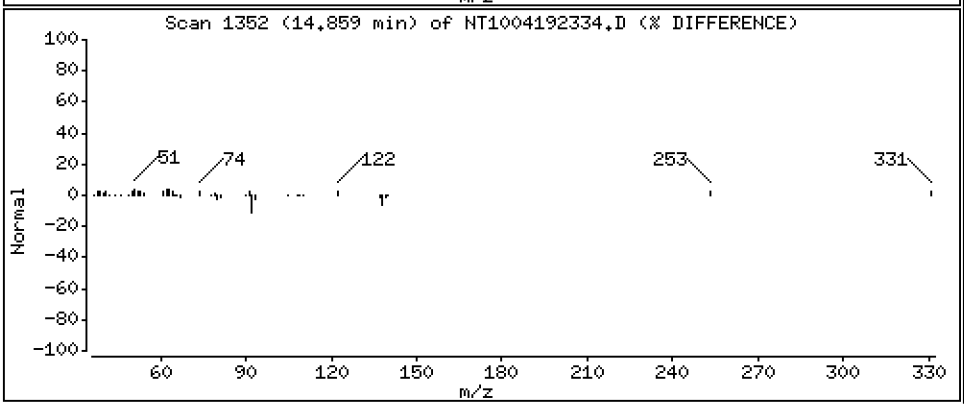












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

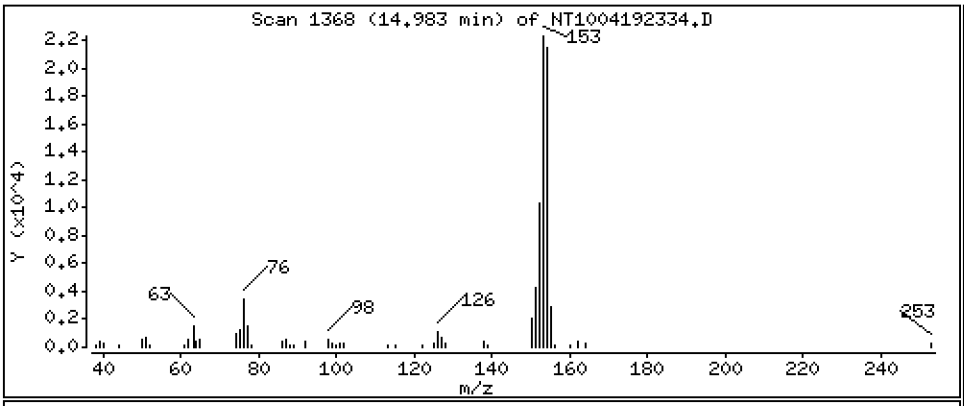
Operator: VTS

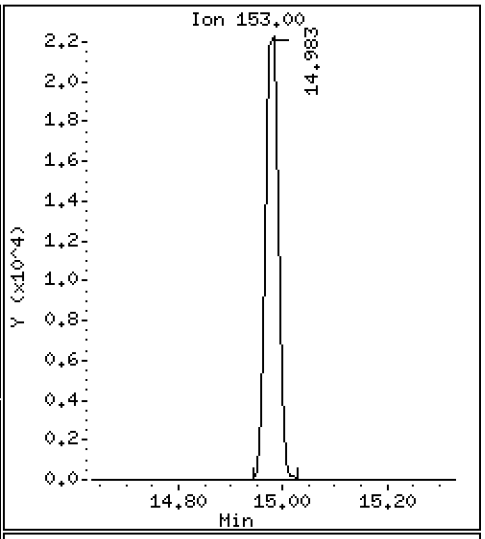
Column phase: ZB-5msi

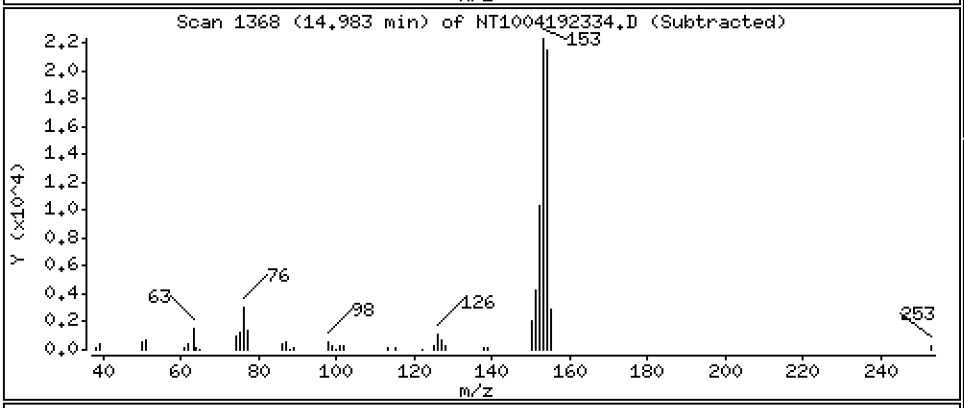
Column diameter: 0.25

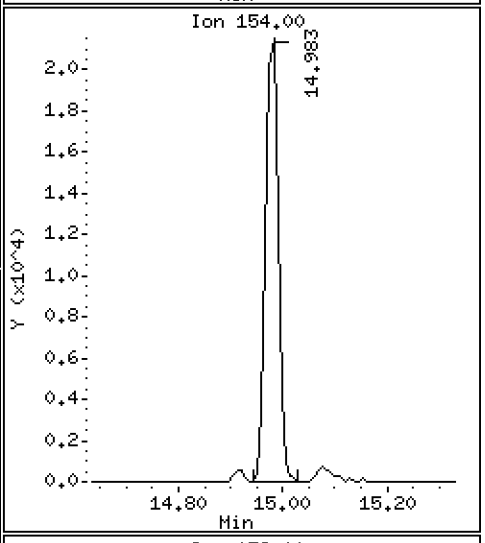
44 Acenaphthene

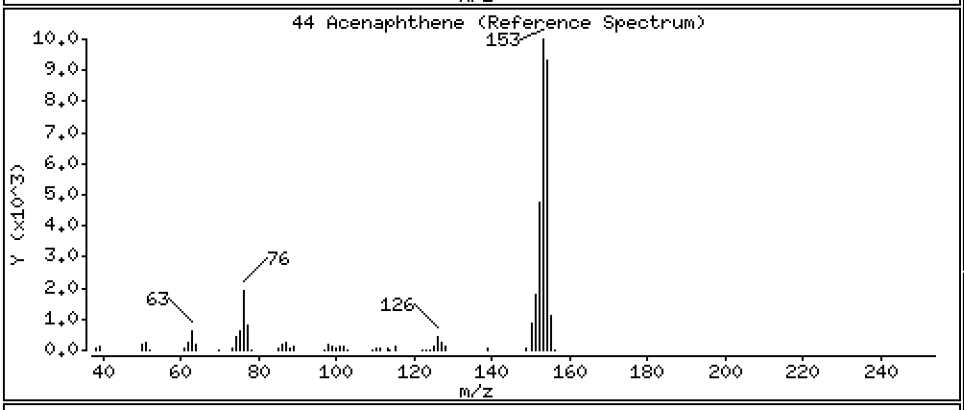
Concentration: 0.4369 ug/mL

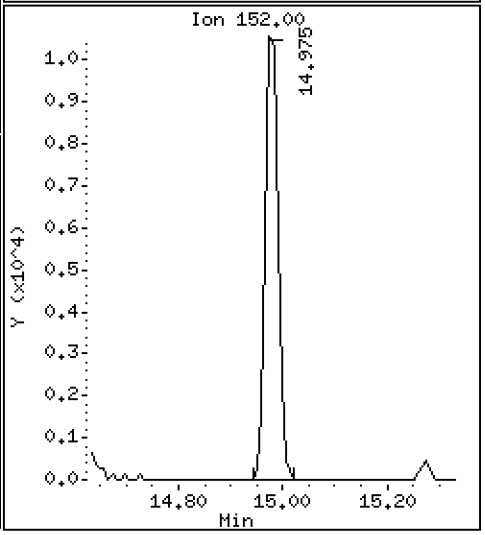


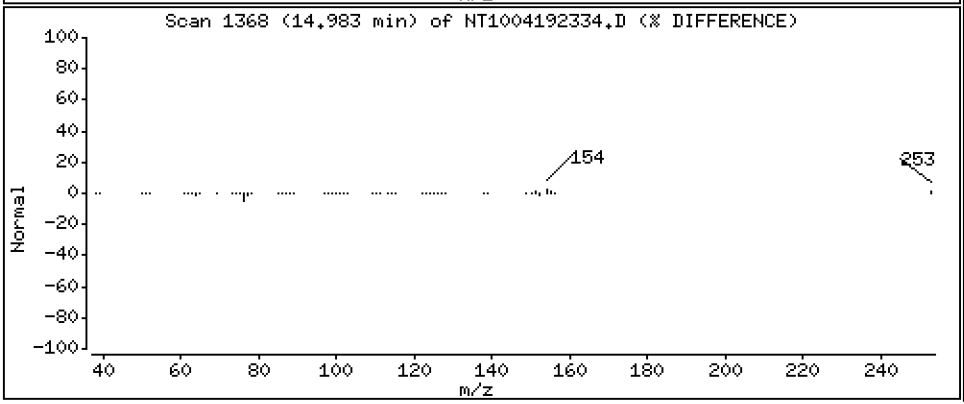












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

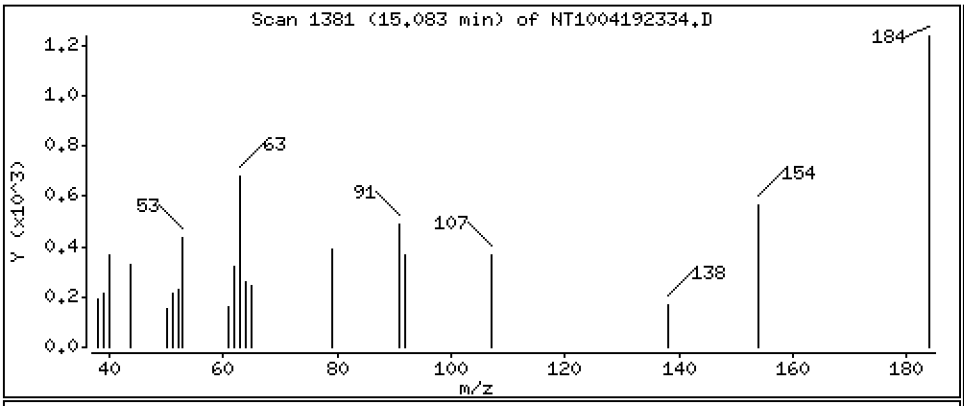
Operator: VTS

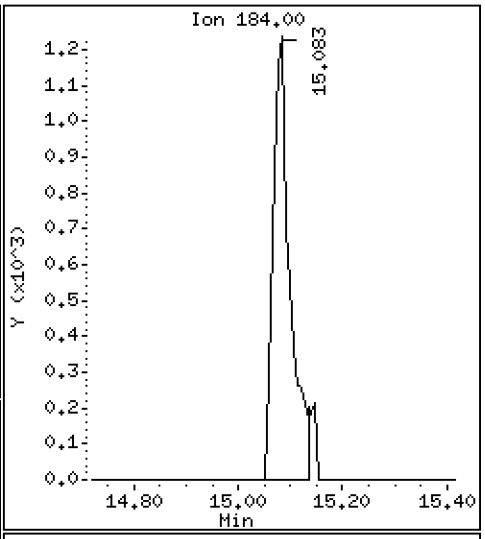
Column phase: ZB-5msi

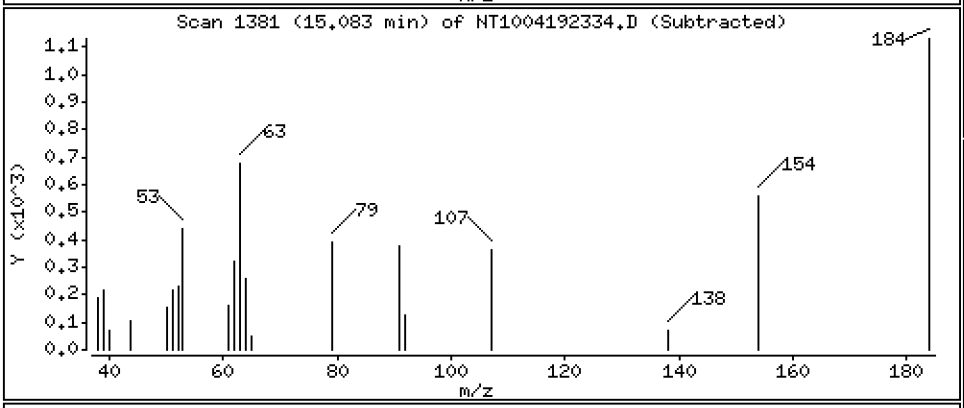
Column diameter: 0.25

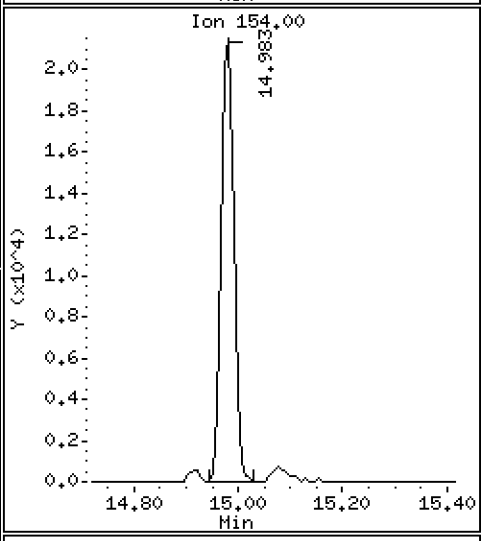
45 2,4-Dinitrophenol

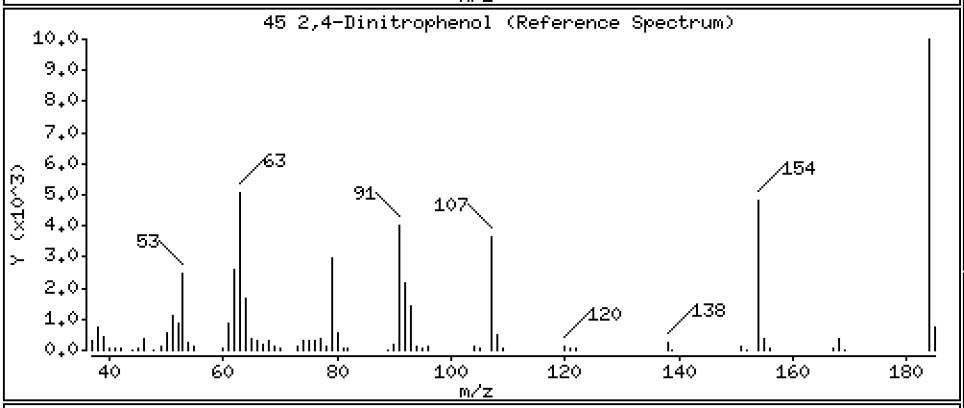
Concentration: 0.2451 ug/mL

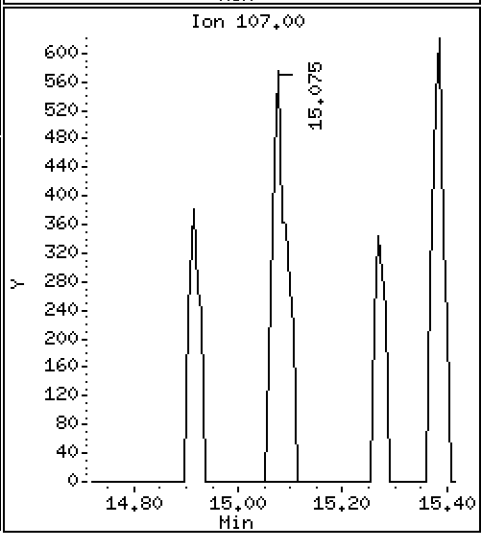


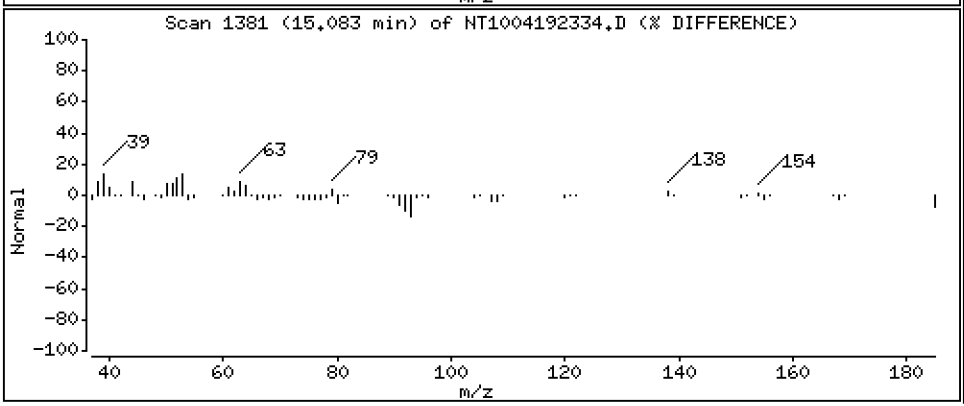












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

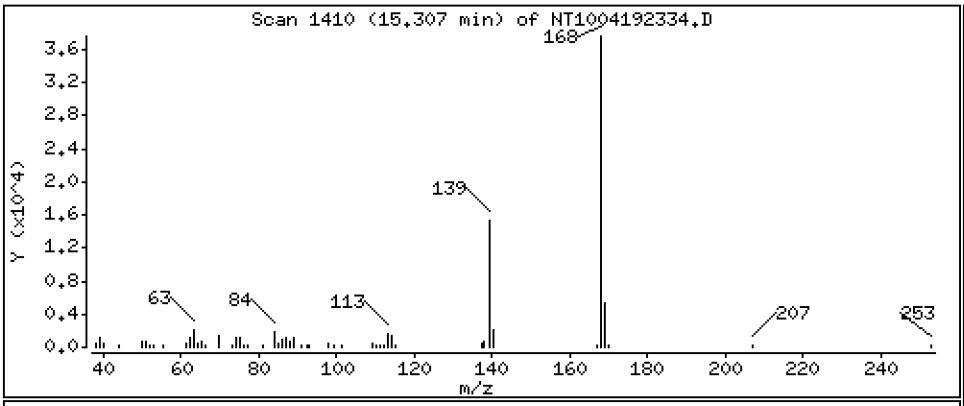
Operator: VTS

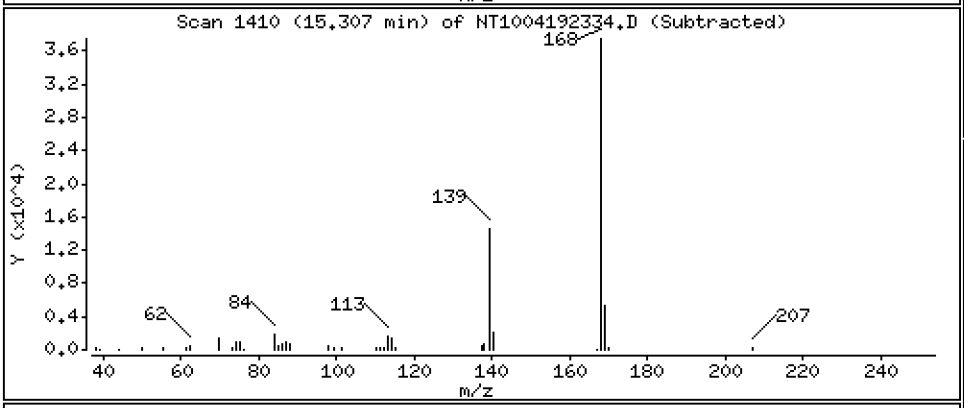
Column phase: ZB-5msi

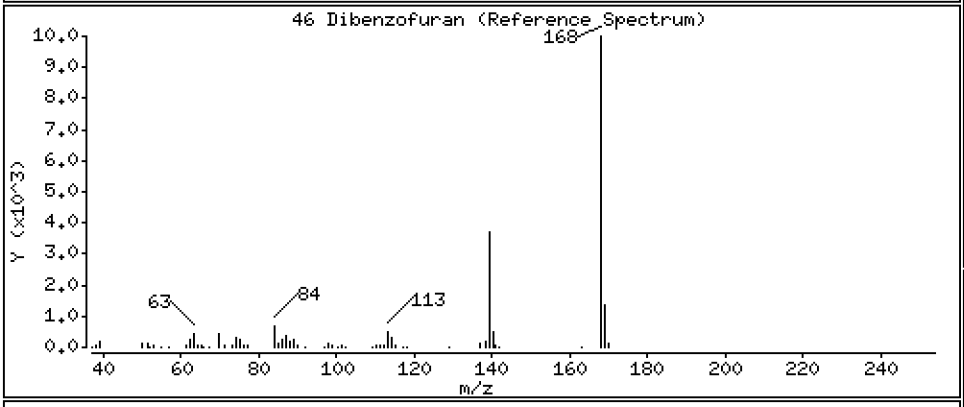
Column diameter: 0.25

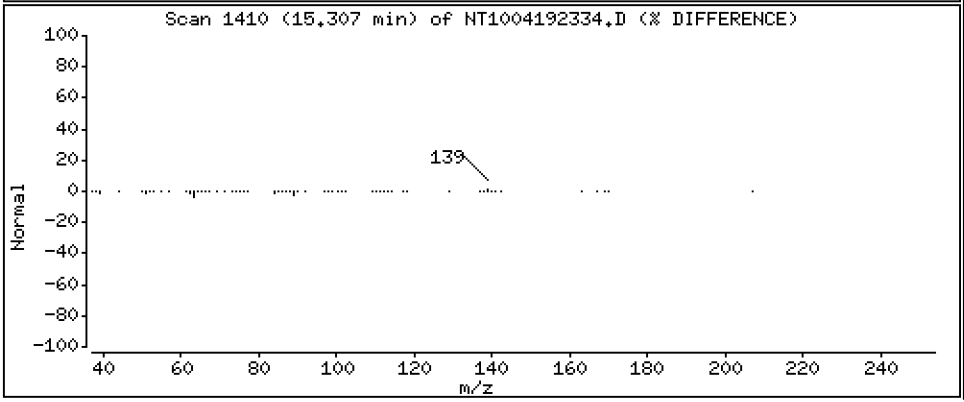
46 Dibenzofuran

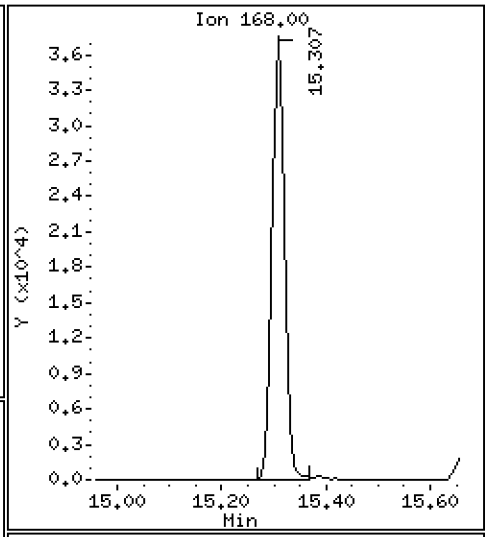
Concentration: 0.4799 ug/mL

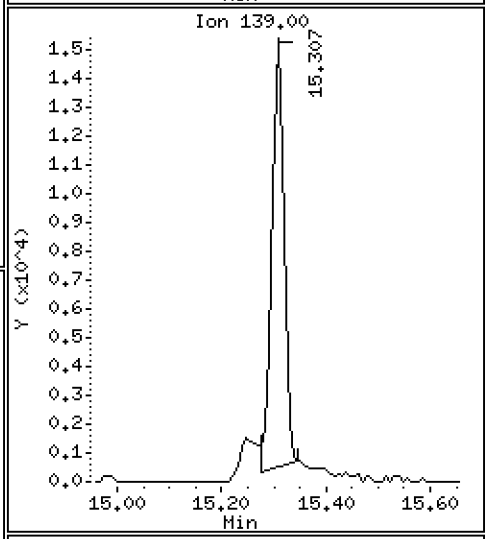


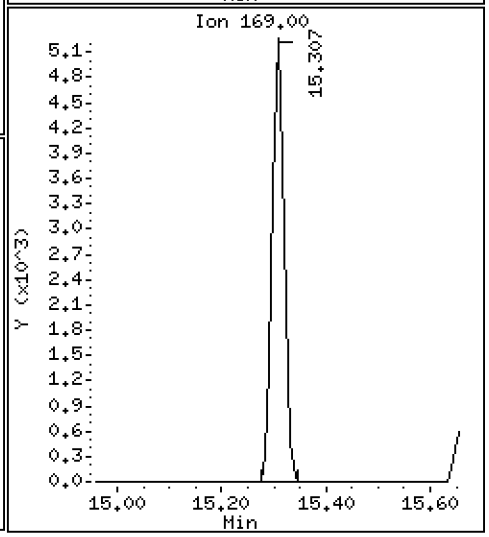












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

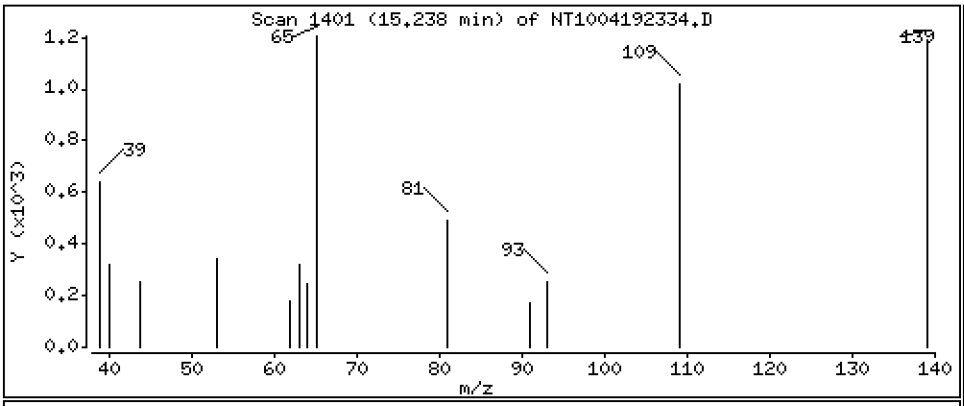
Operator: VTS

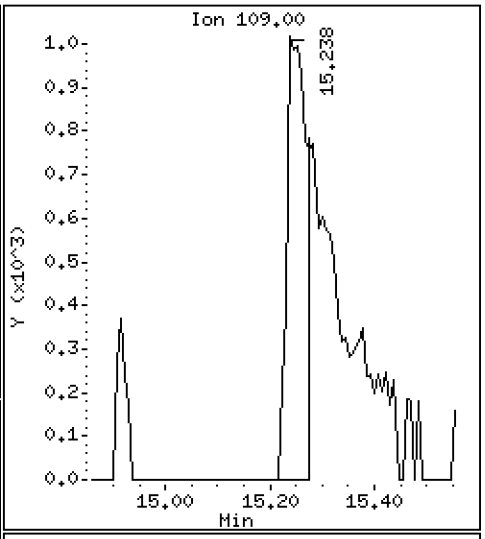
Column phase: ZB-5msi

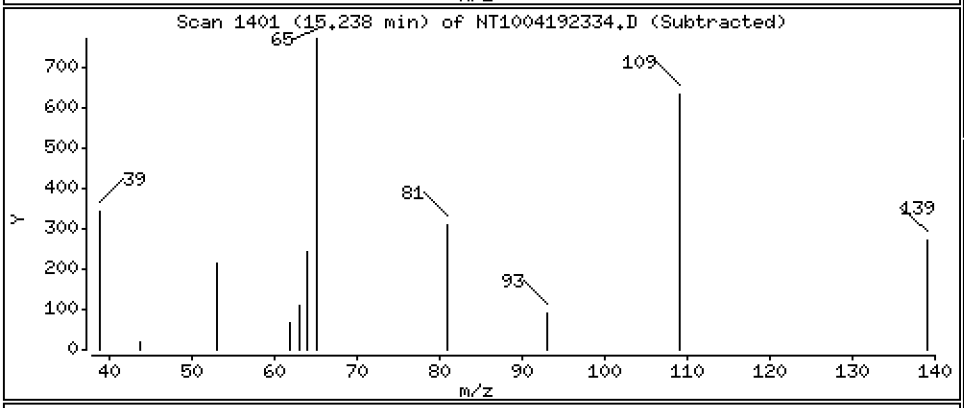
Column diameter: 0.25

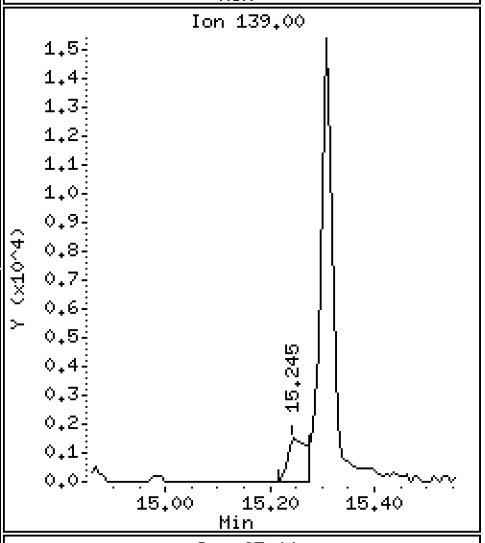
47 4-Nitrophenol

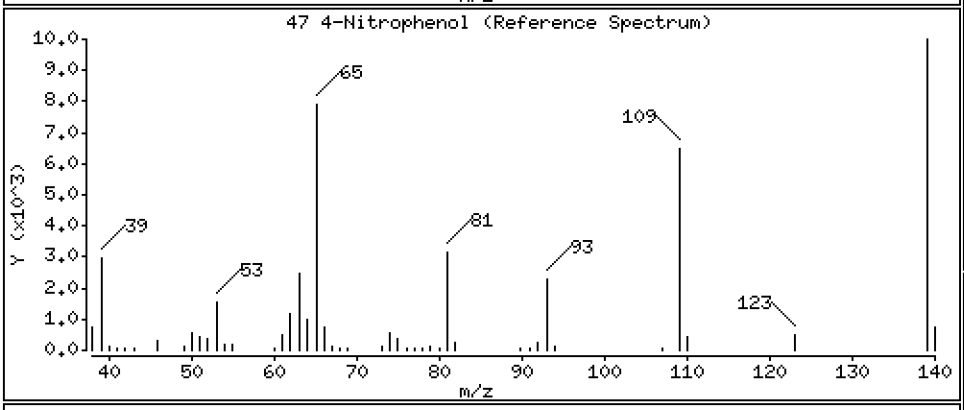
Concentration: 0.2095 ug/mL

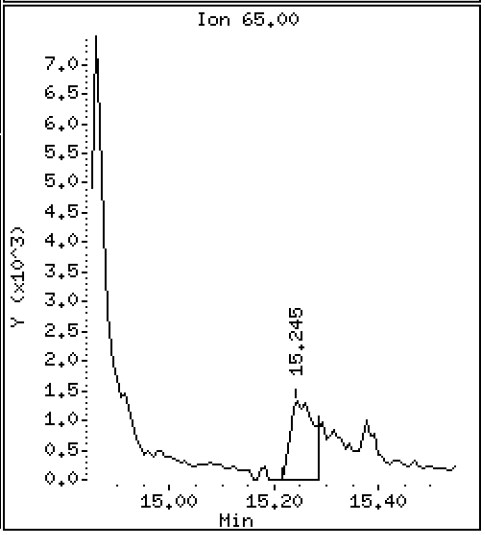


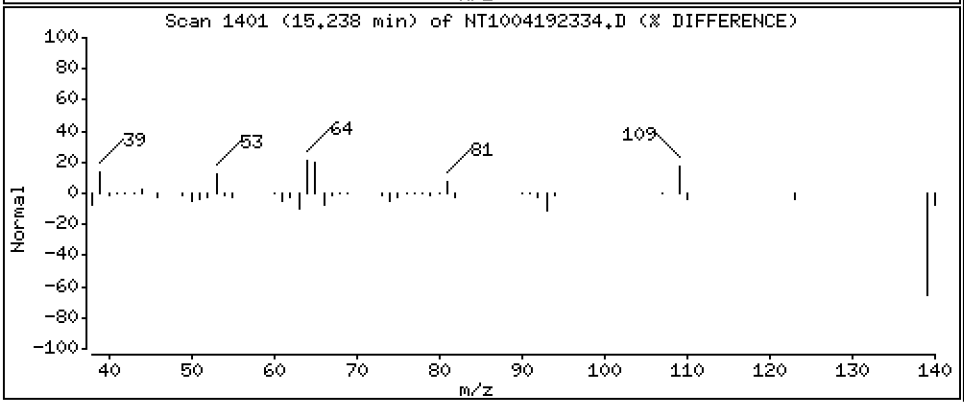












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192334.D

Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

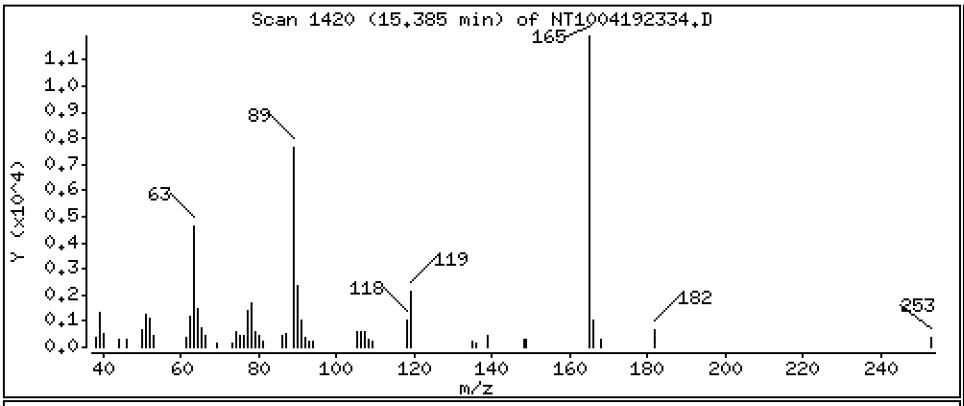
Operator: VTS

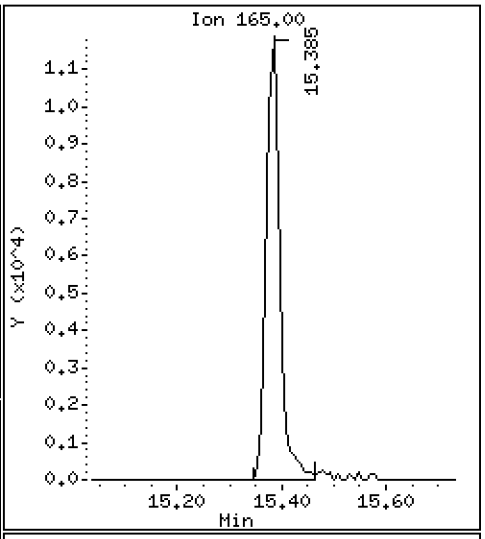
Column phase: ZB-5msi

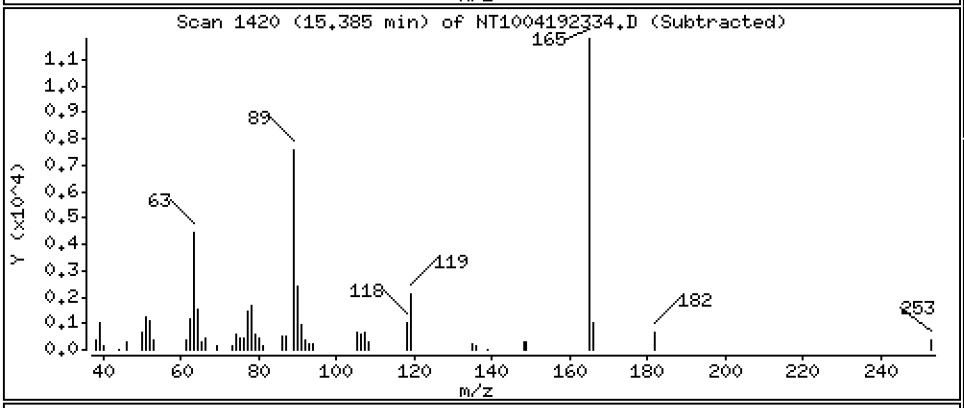
Column diameter: 0.25

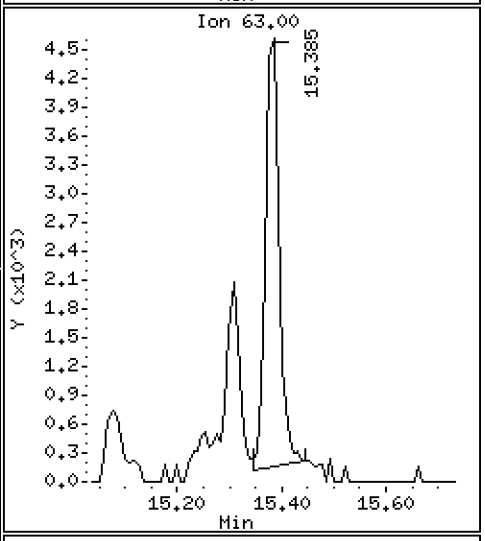
48 2,4-Dinitrotoluene

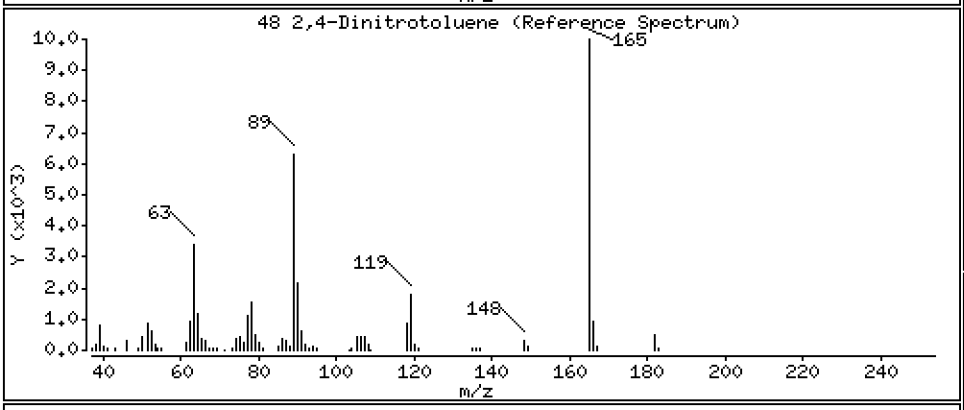
Concentration: 0.7193 ug/mL

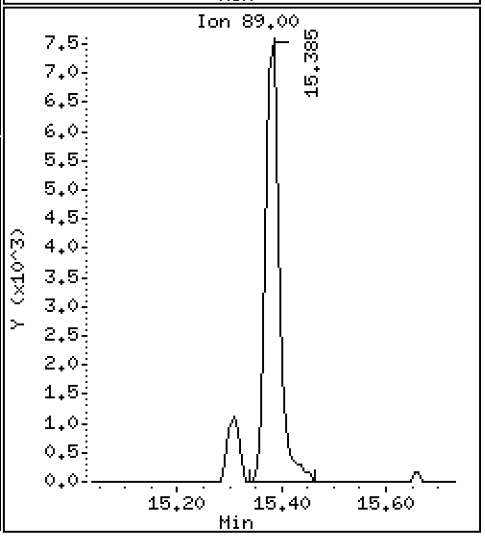


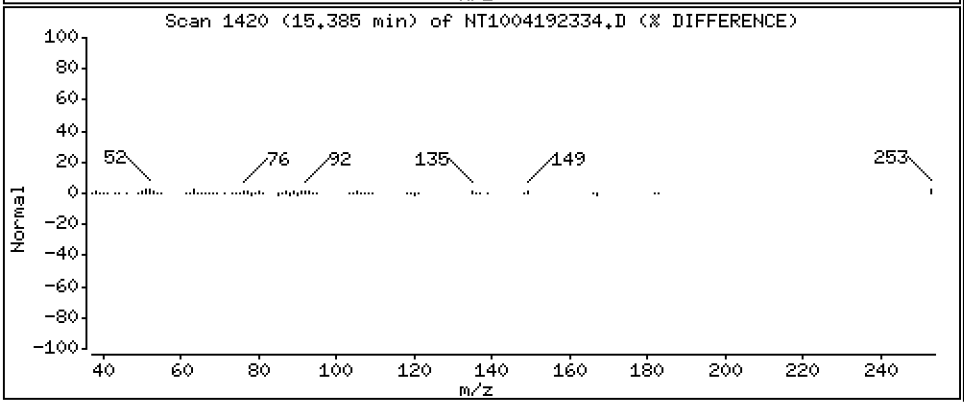












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

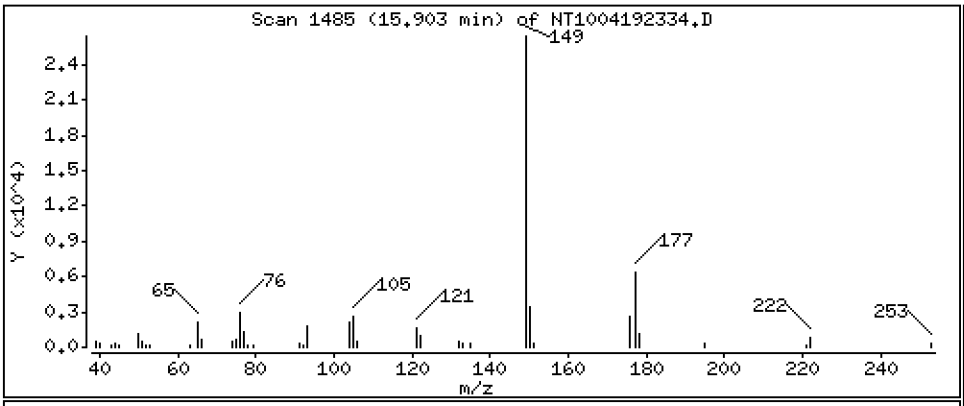
Operator: VTS

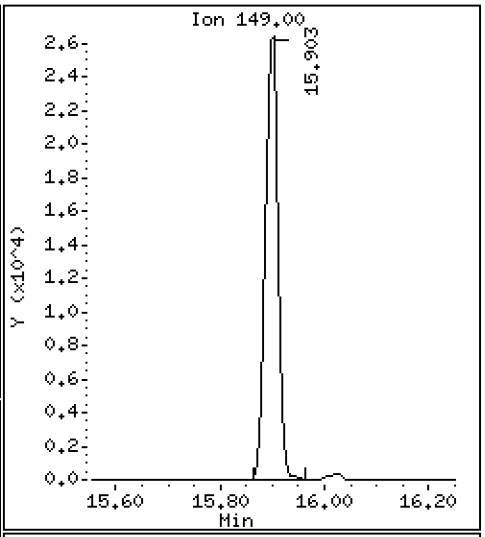
Column phase: ZB-5msi

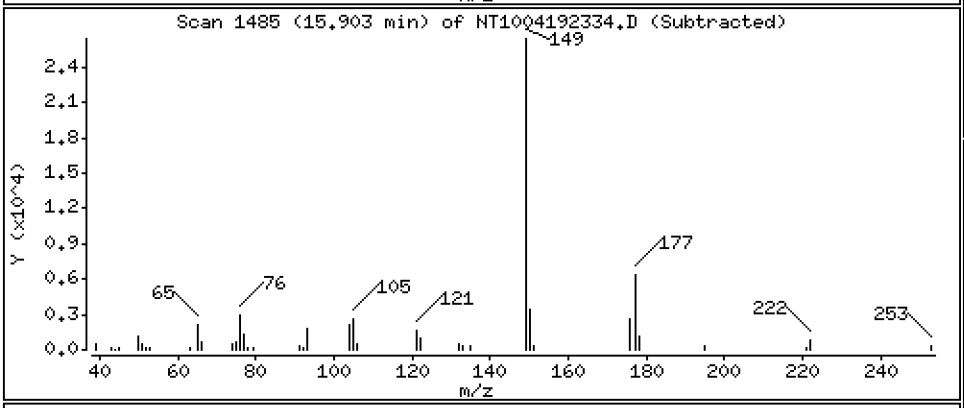
Column diameter: 0.25

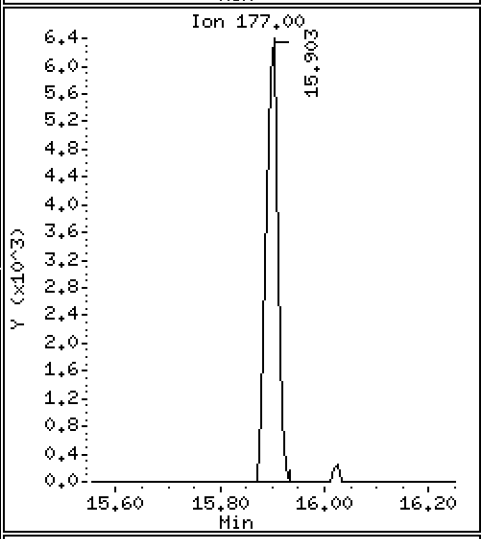
50 Diethylphthalate

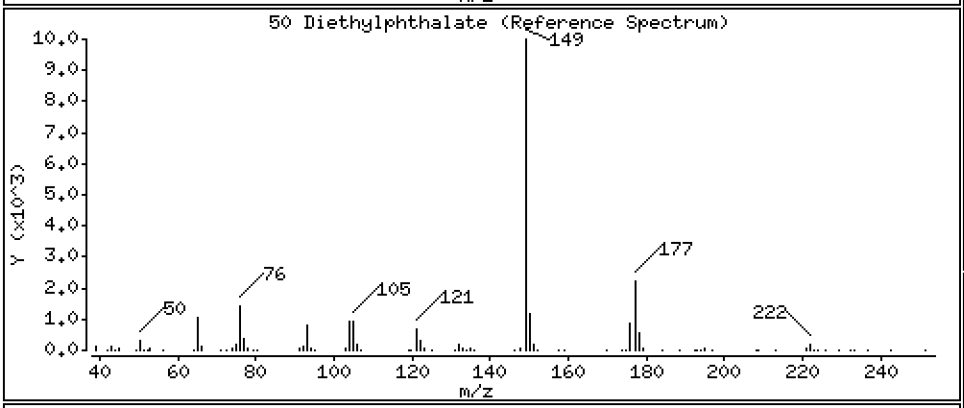
Concentration: 0.5811 ug/mL

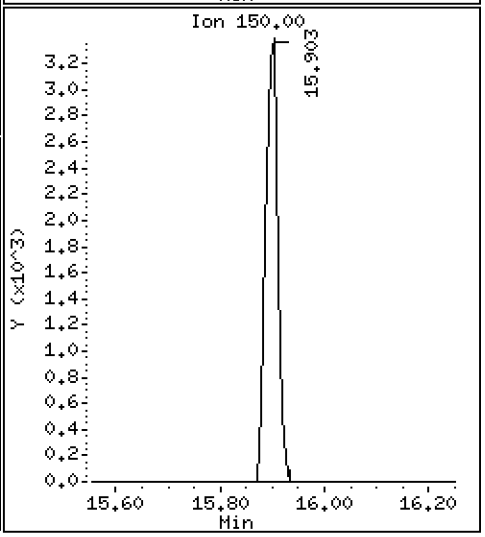


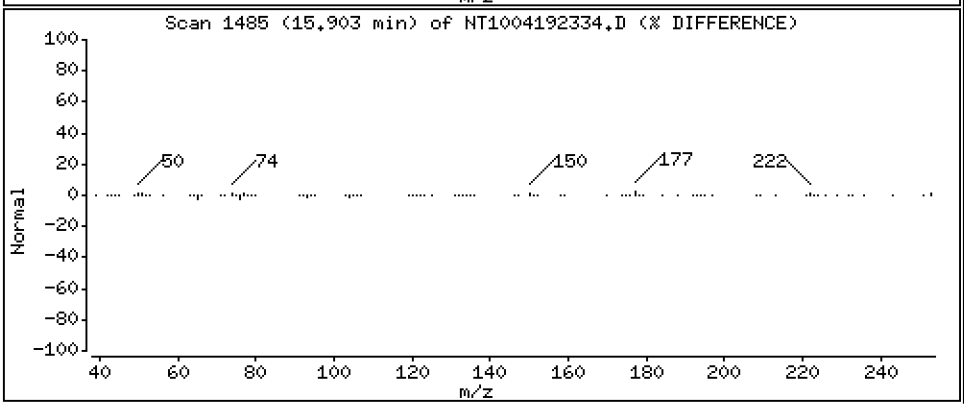












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

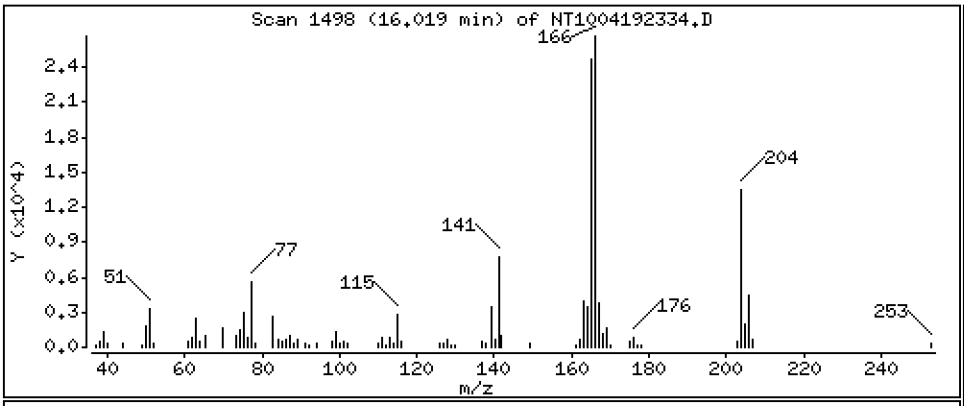
Operator: VTS

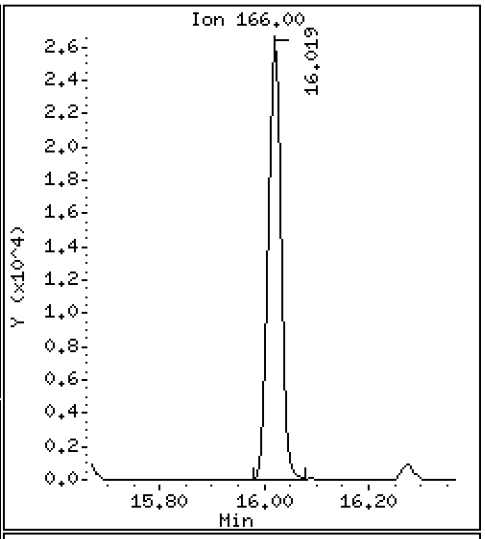
Column phase: ZB-5msi

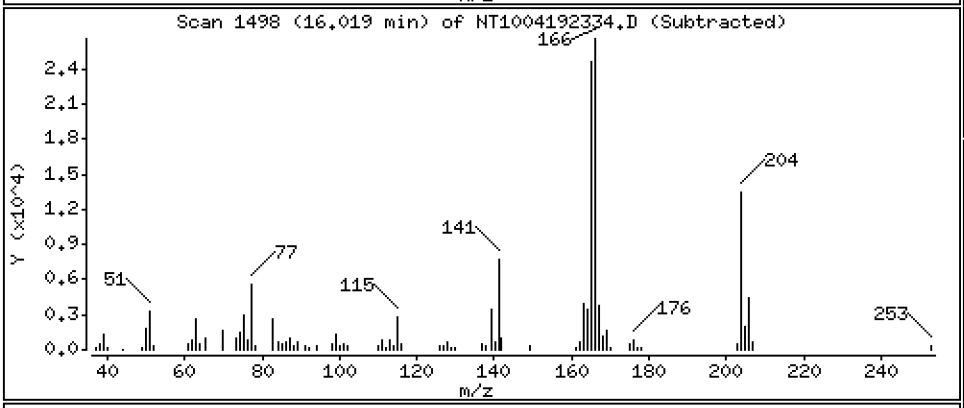
Column diameter: 0.25

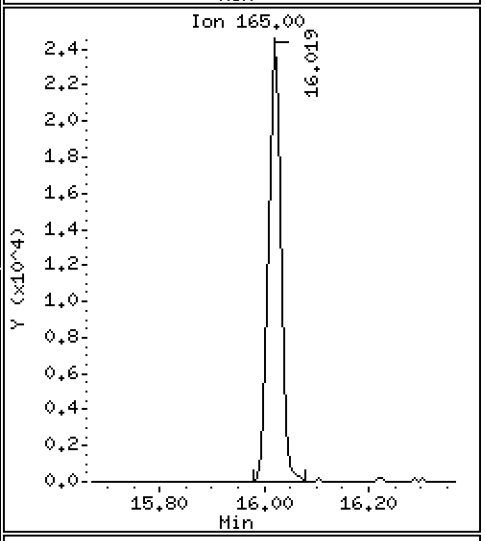
49 Fluorene

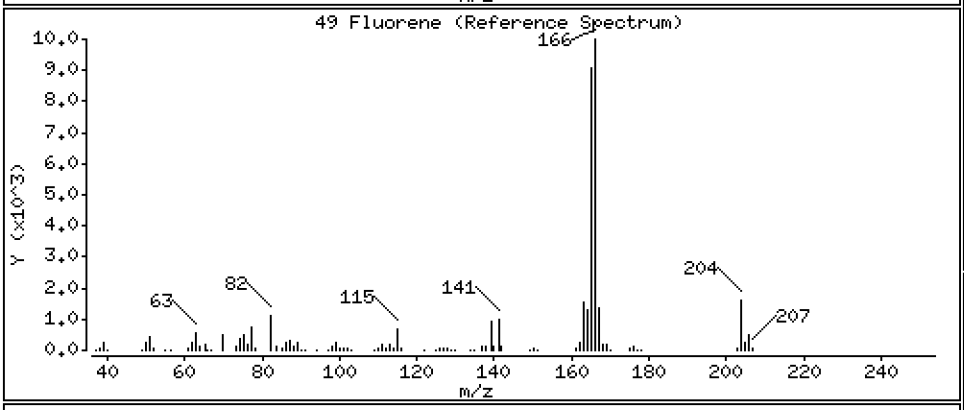
Concentration: 0.4603 ug/mL

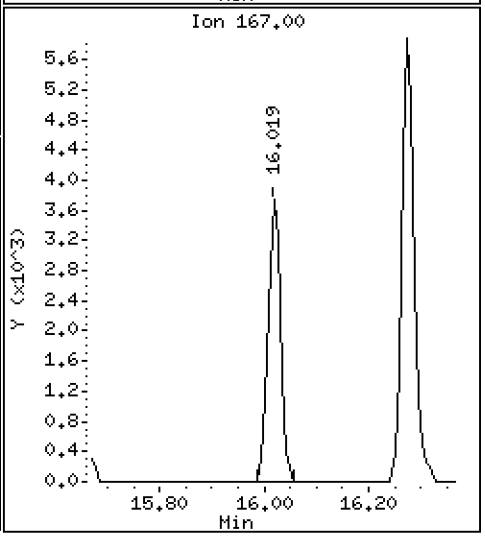


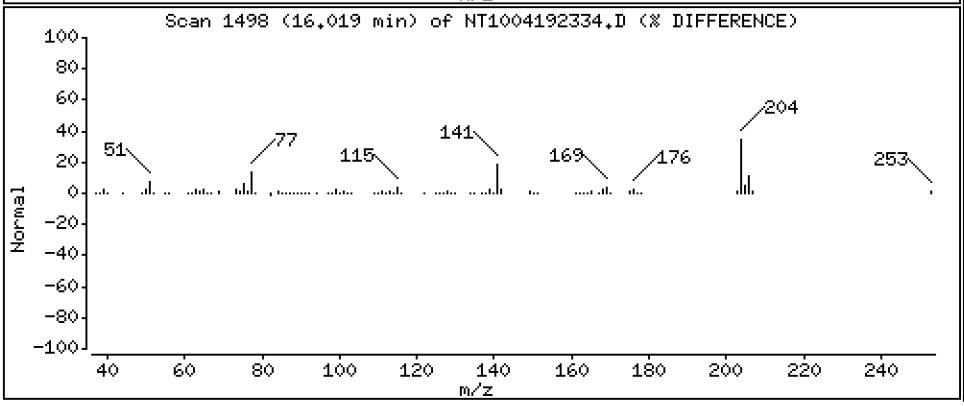












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

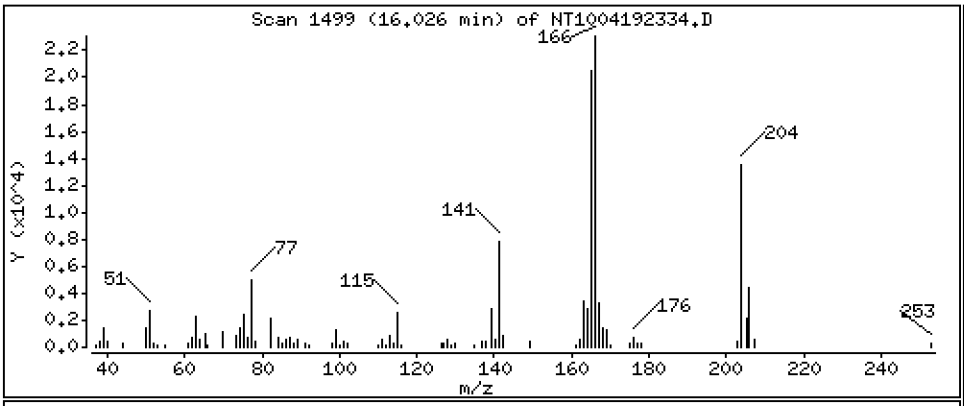
Operator: VTS

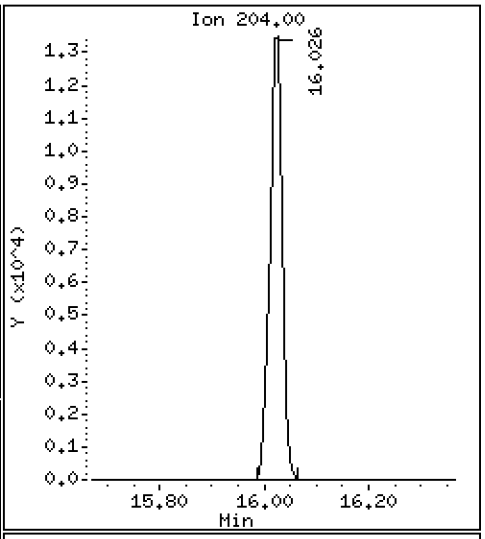
Column phase: ZB-5msi

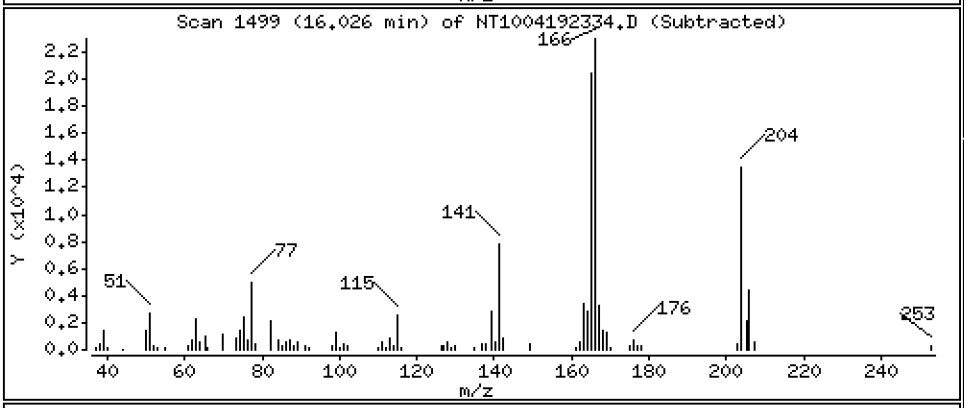
Column diameter: 0.25

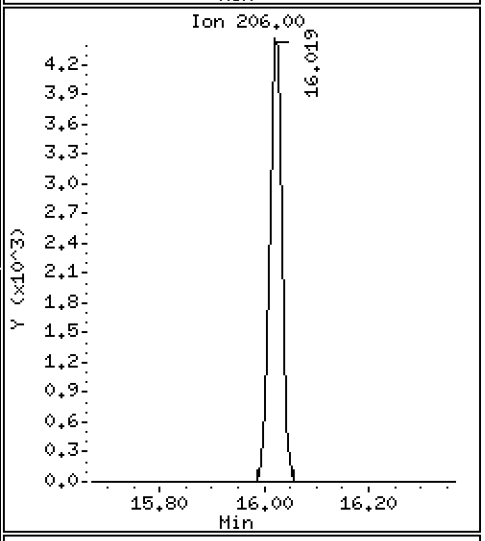
51 4-Chlorophenyl-phenylether

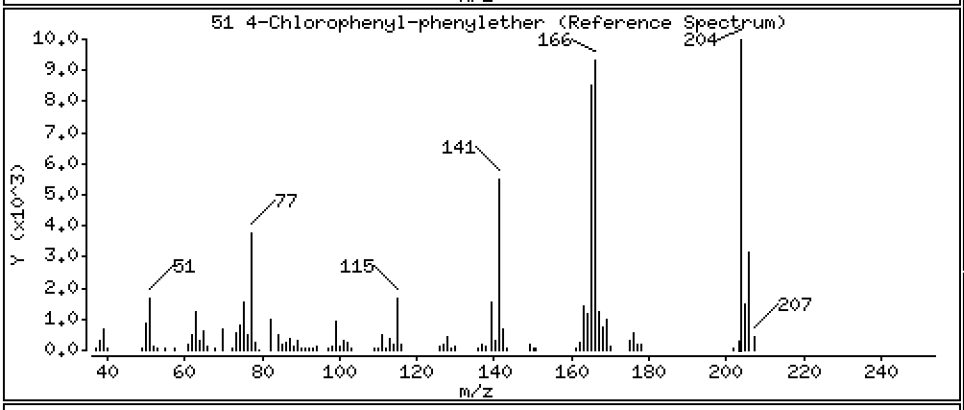
Concentration: 0.4876 ug/mL

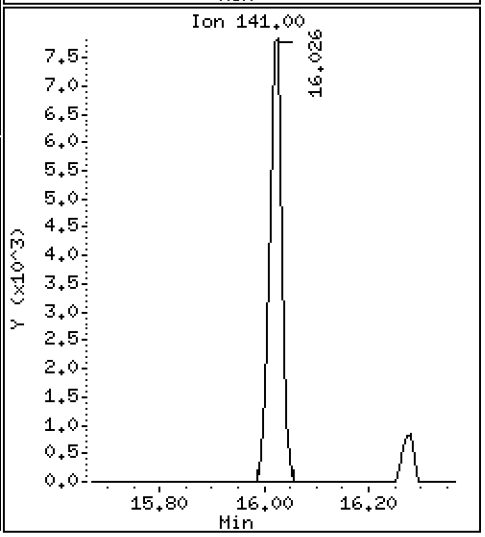


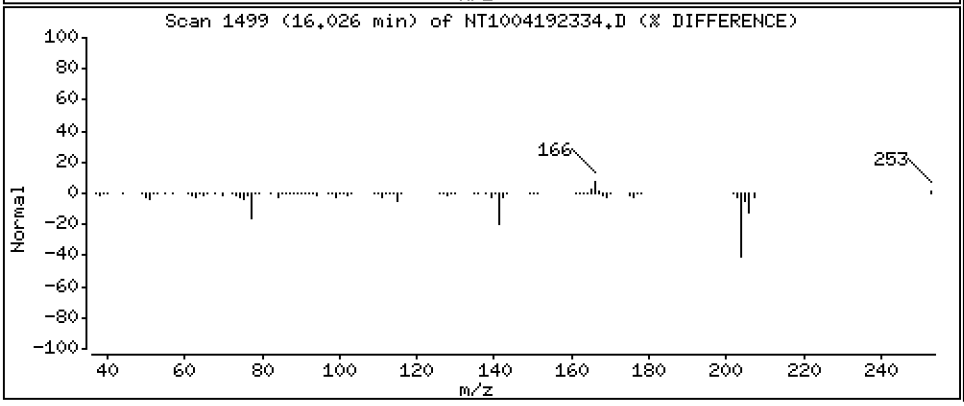












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

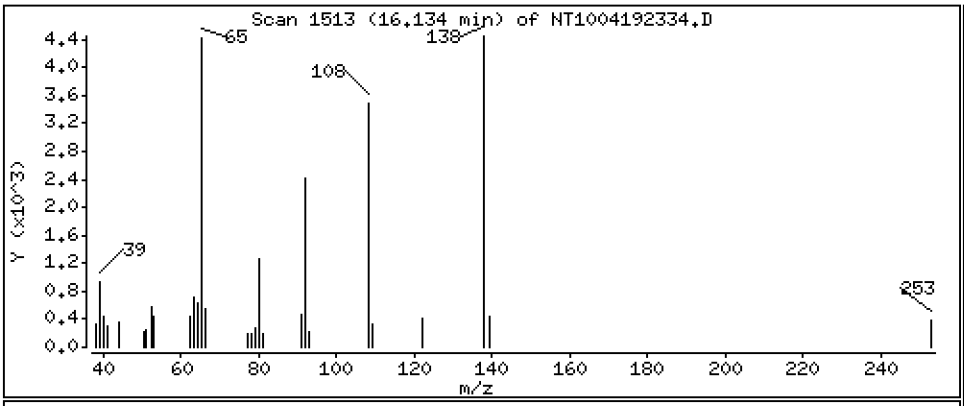
Operator: VTS

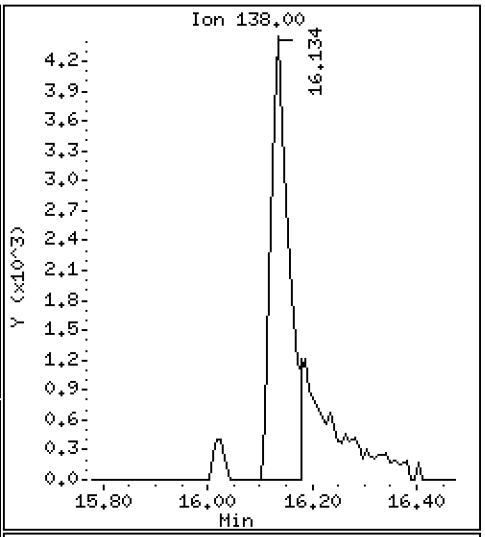
Column phase: ZB-5msi

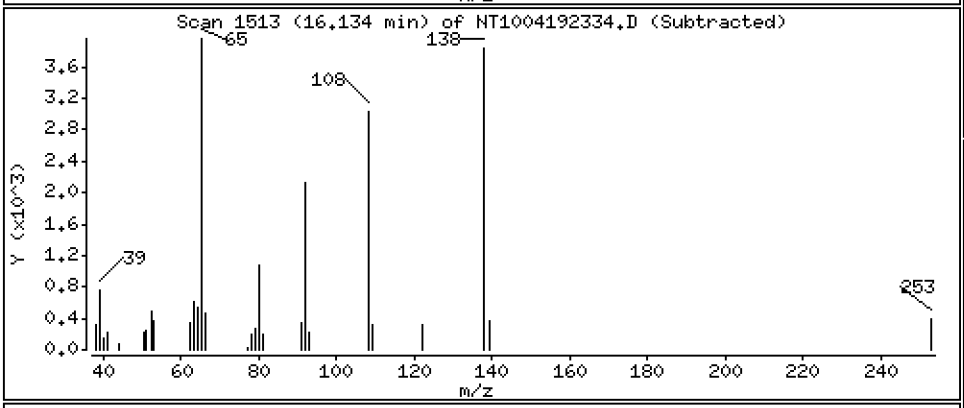
Column diameter: 0.25

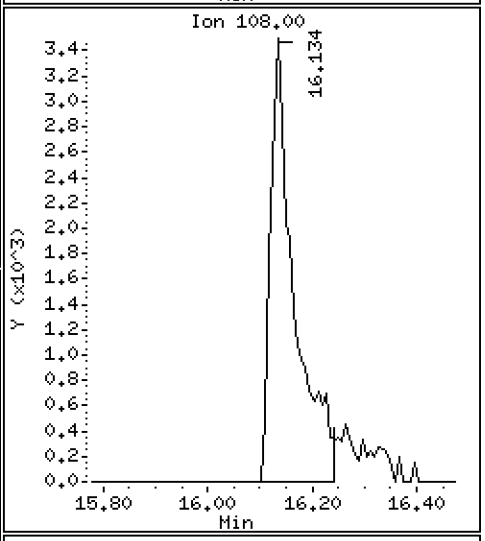
52 4-Nitroaniline

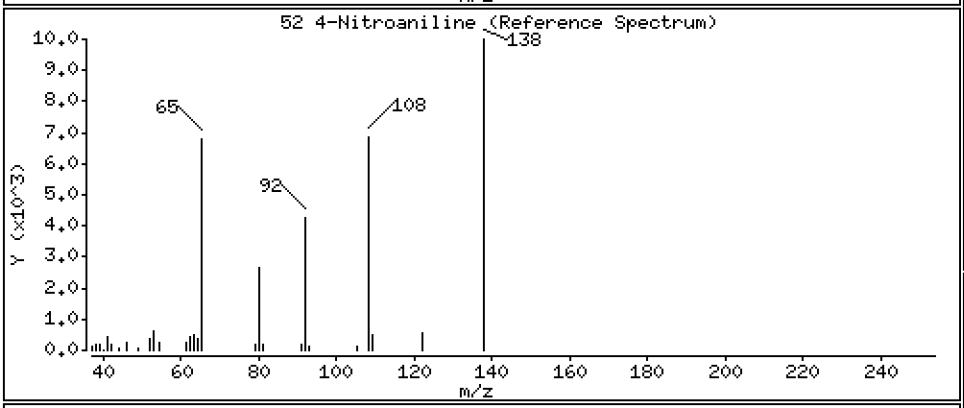
Concentration: 0.5530 ug/mL

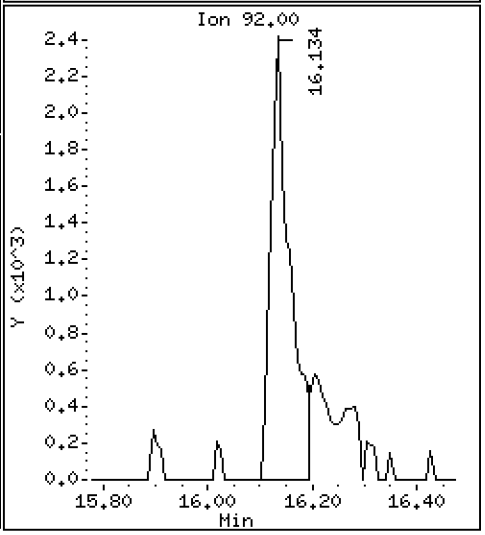


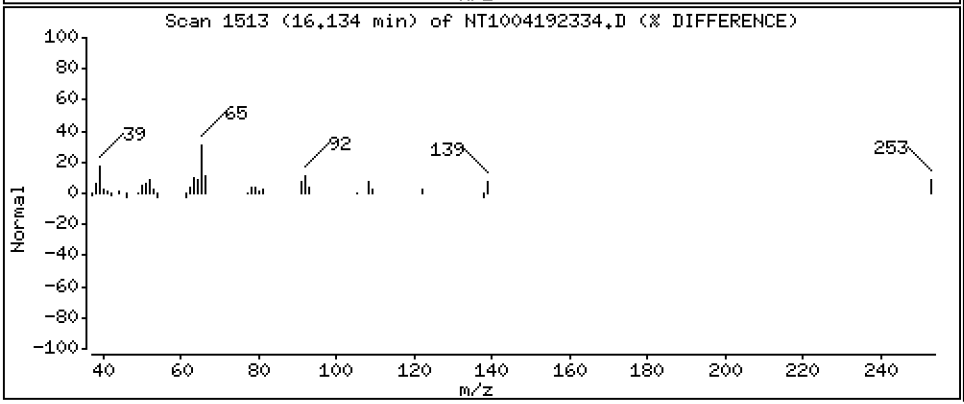












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

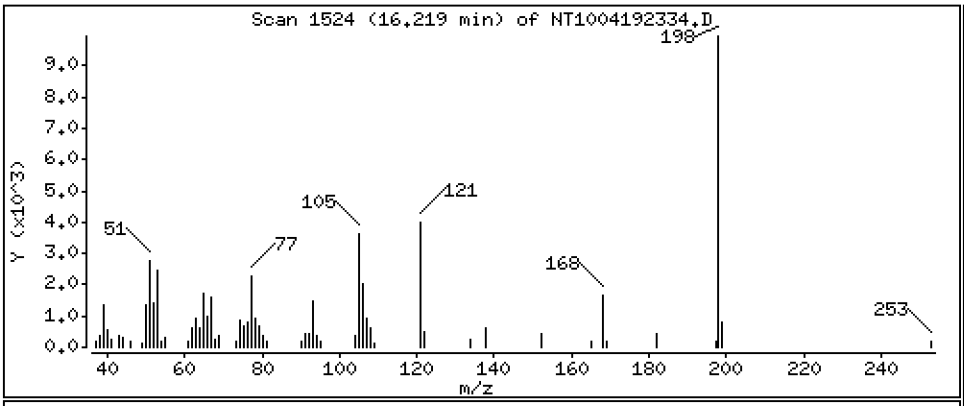
Operator: VTS

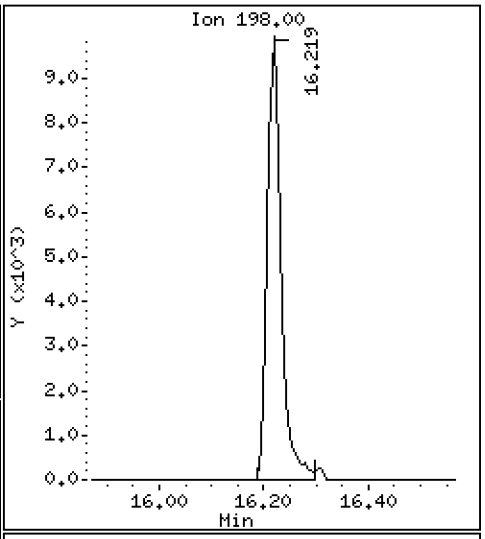
Column phase: ZB-5msi

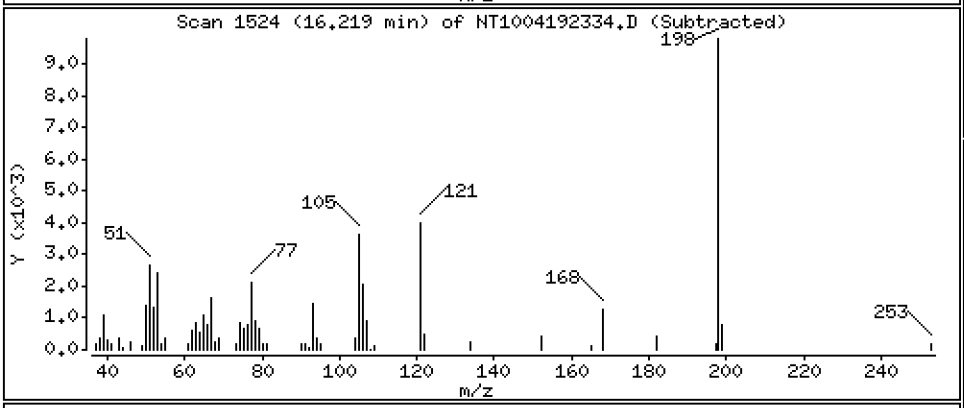
Column diameter: 0.25

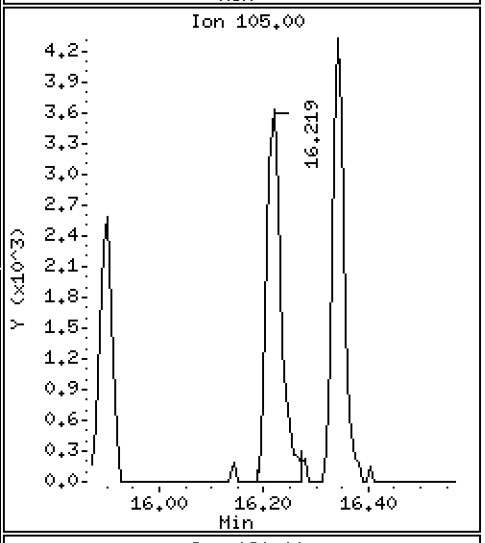
53 4,6-Dinitro-2-methylphenol

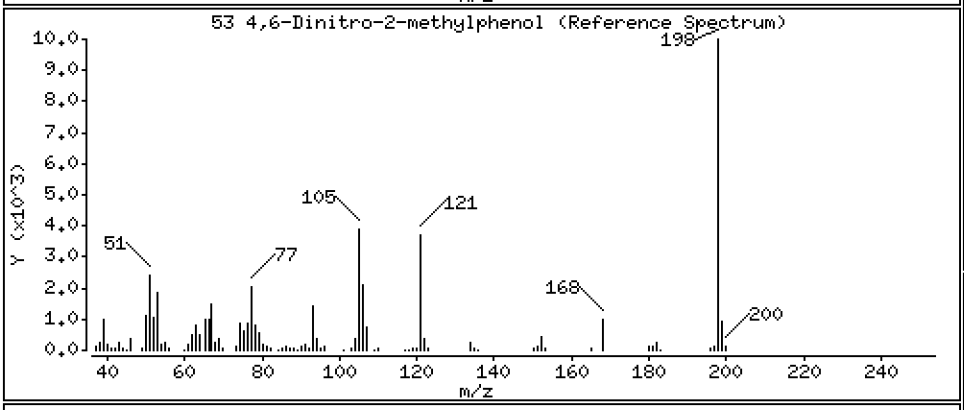
Concentration: 1.301 ug/mL

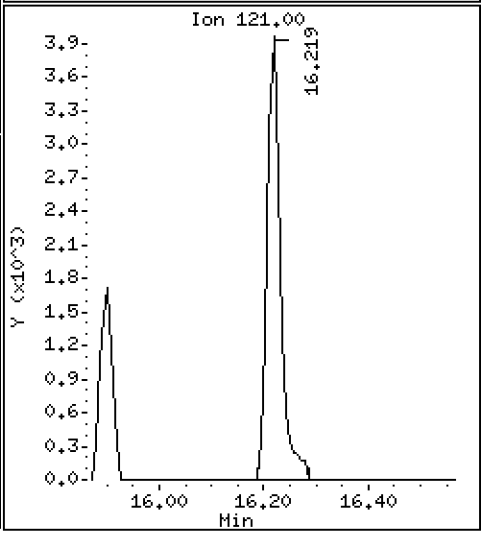


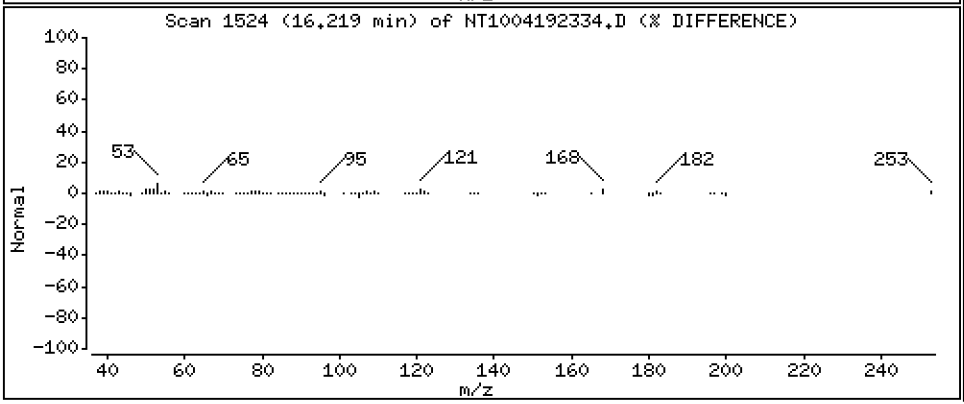












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

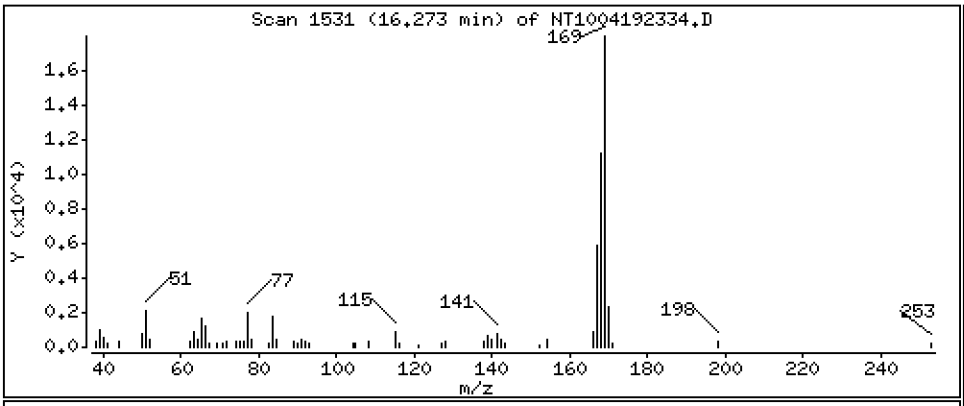
Operator: VTS

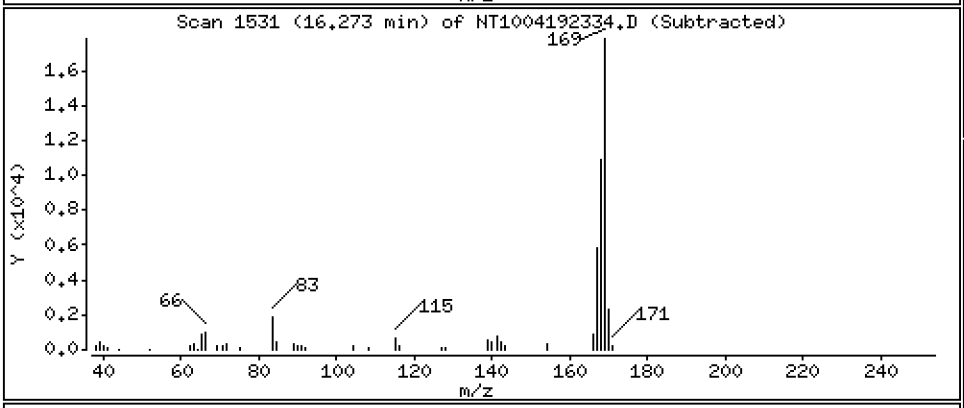
Column phase: ZB-5msi

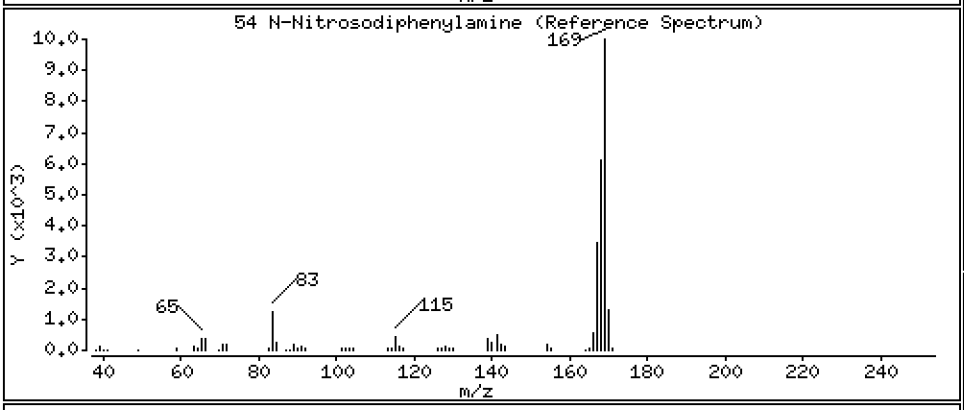
Column diameter: 0.25

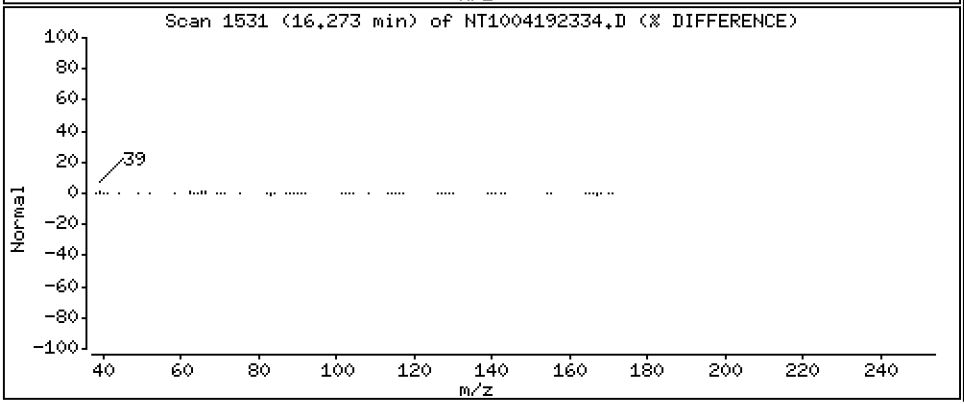
54 N-Nitrosodiphenylamine

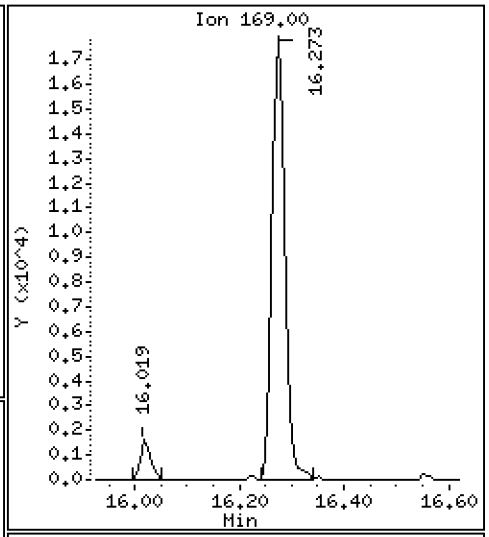
Concentration: 0.4933 ug/mL

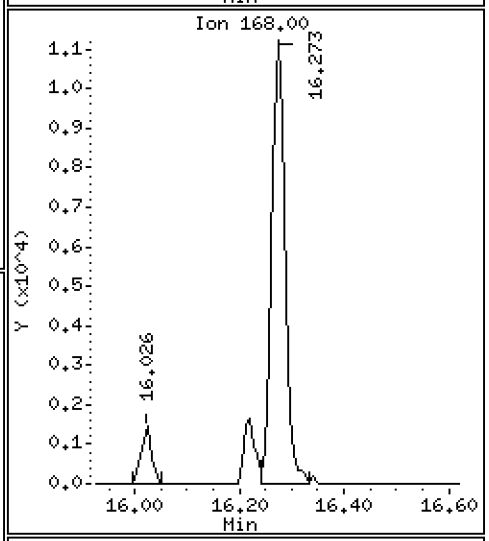


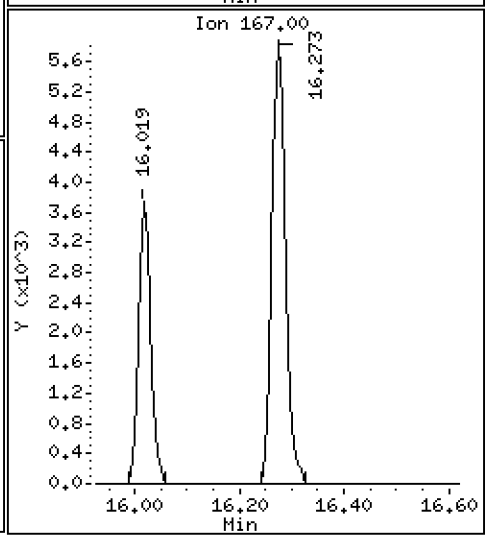












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192334.D

Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

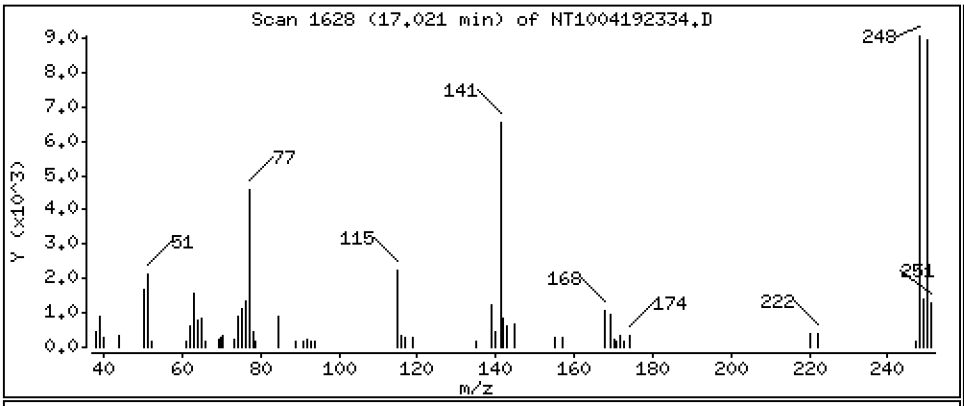
Operator: VTS

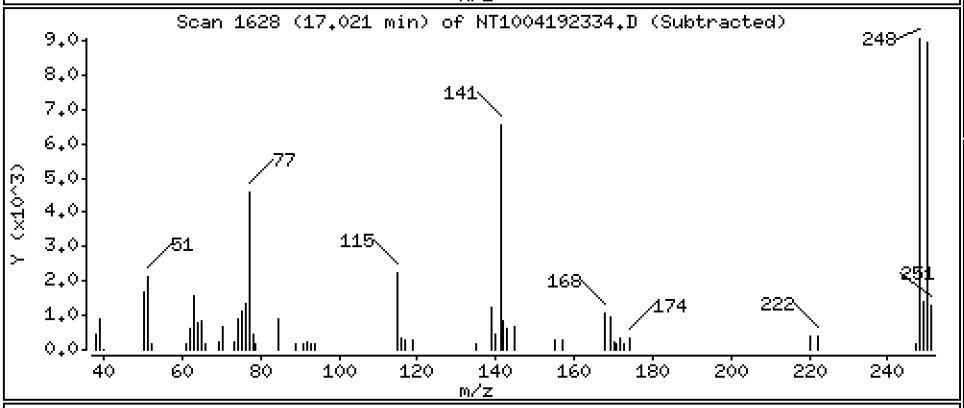
Column phase: ZB-5msi

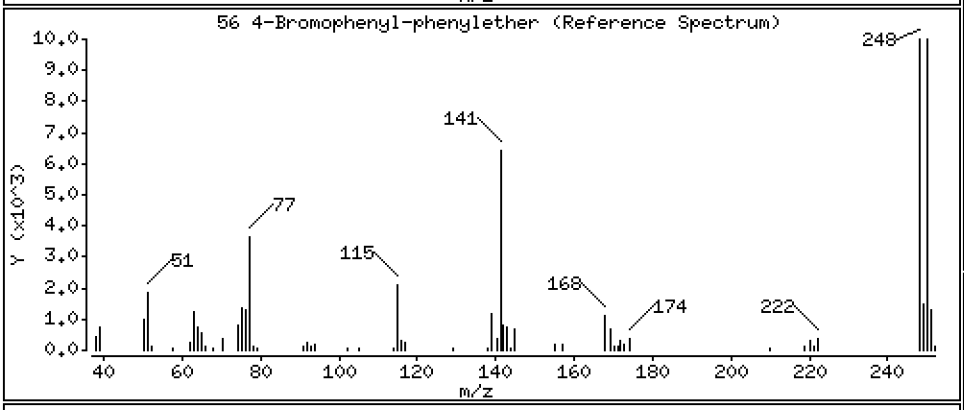
Column diameter: 0.25

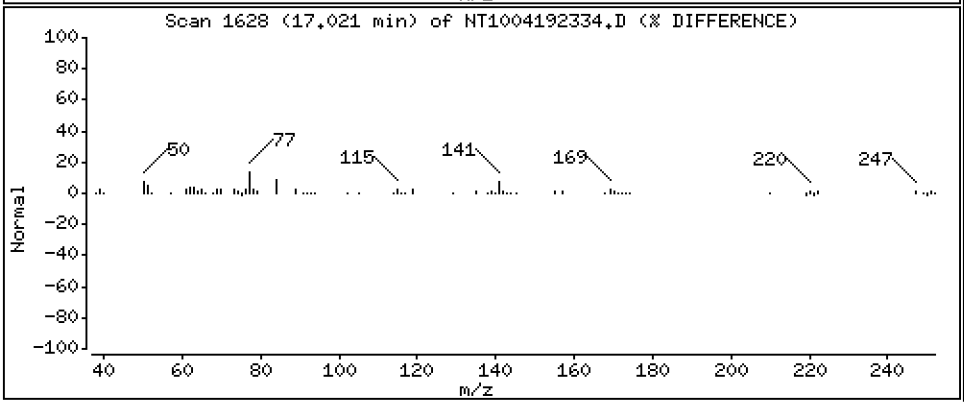
56 4-Bromophenyl-phenylether

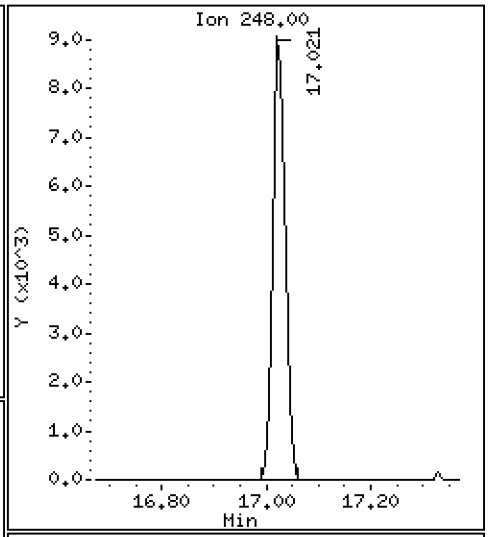
Concentration: 0.5725 ug/mL

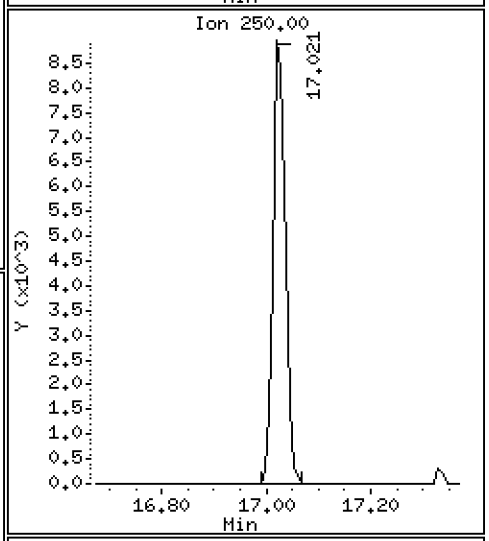


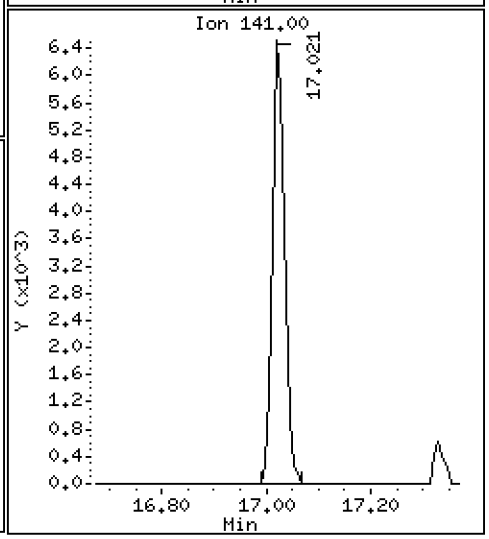












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

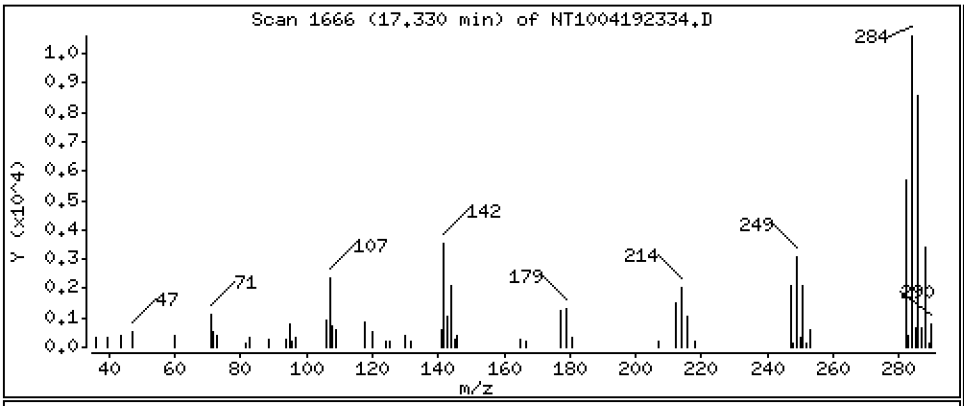
Operator: VTS

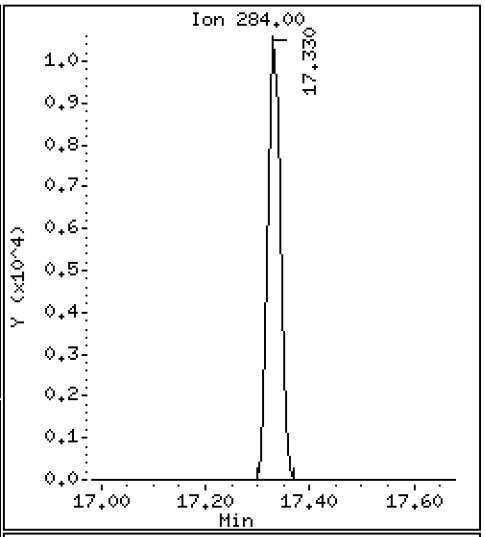
Column phase: ZB-5msi

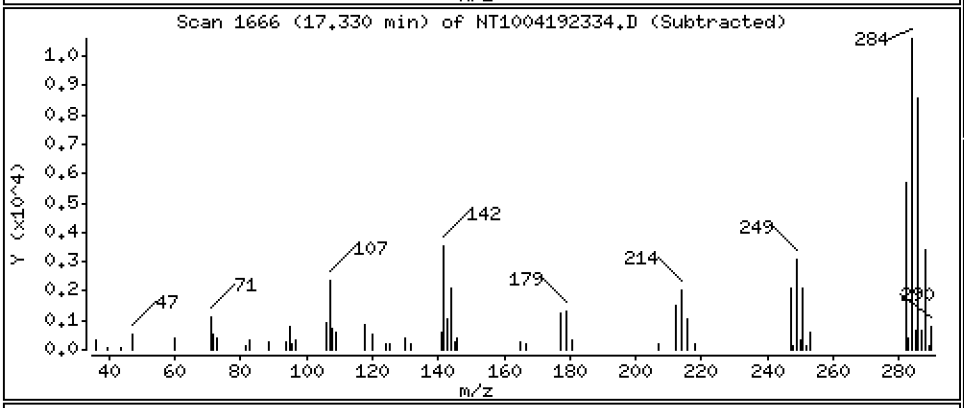
Column diameter: 0.25

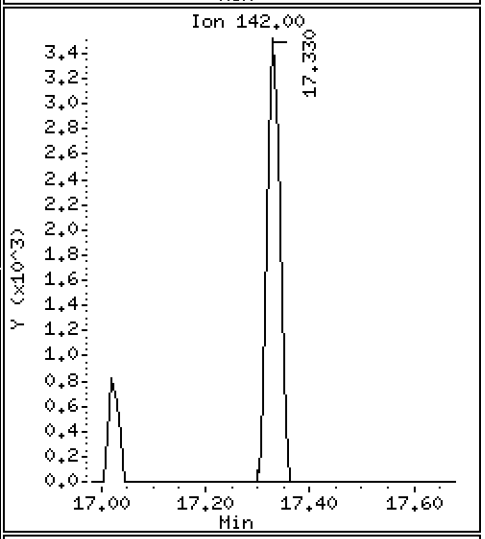
57 Hexachlorobenzene

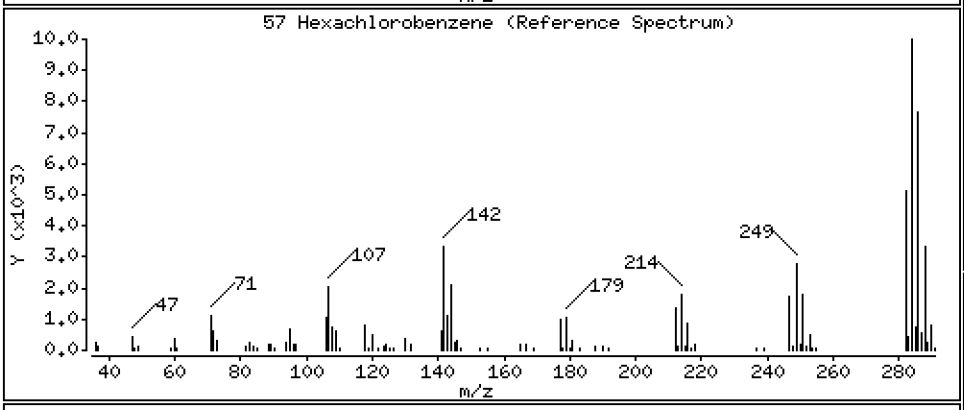
Concentration: 0.6530 ug/mL

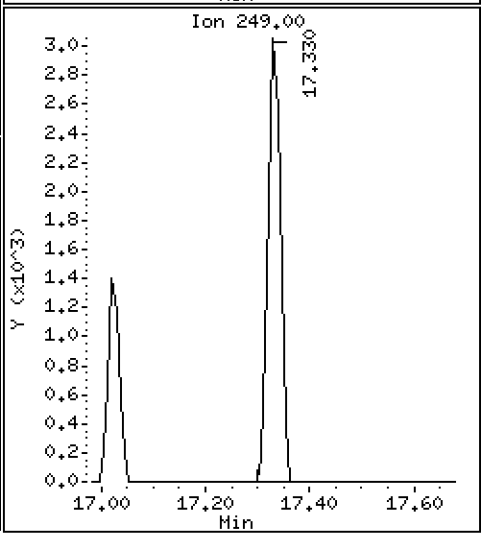


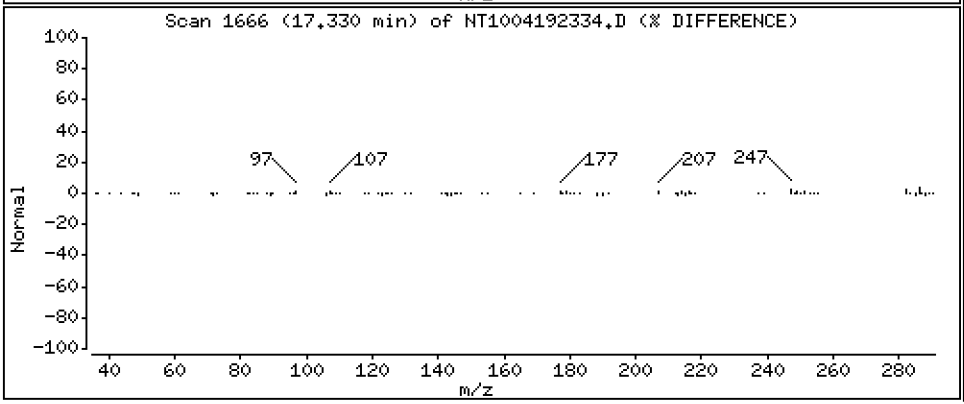












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

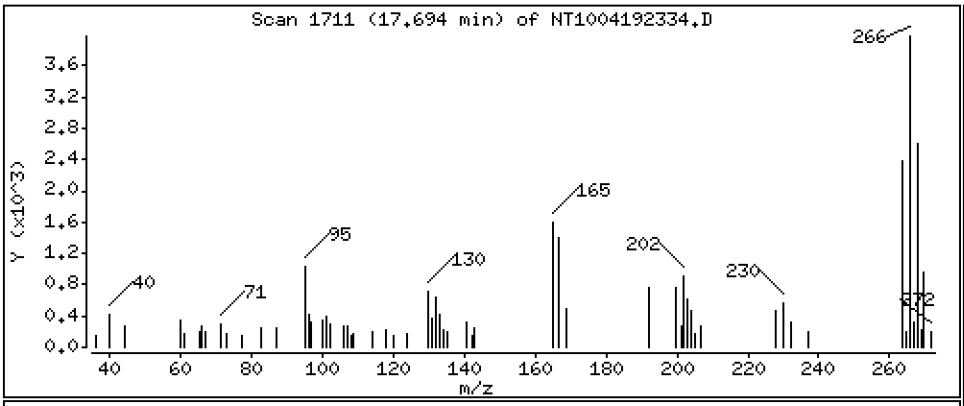
Operator: VTS

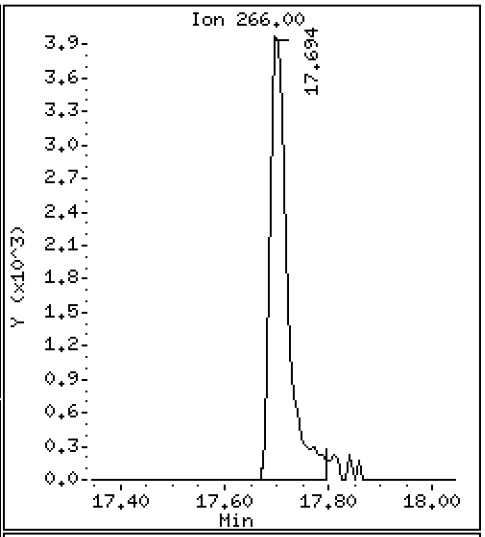
Column phase: ZB-5msi

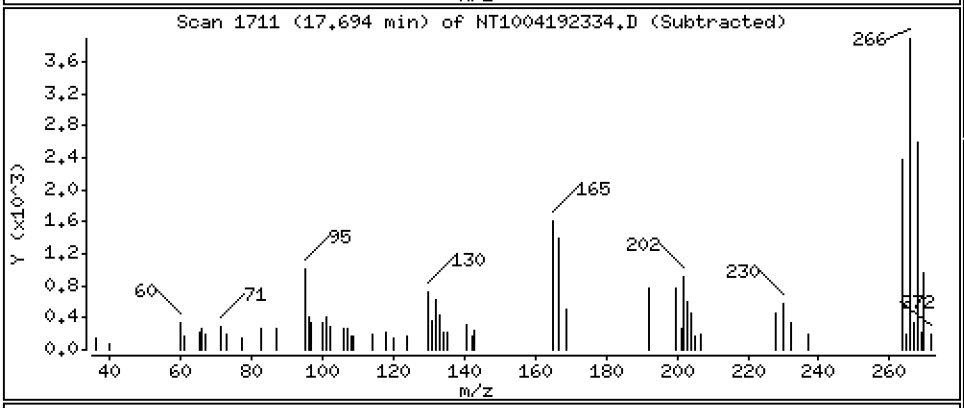
Column diameter: 0.25

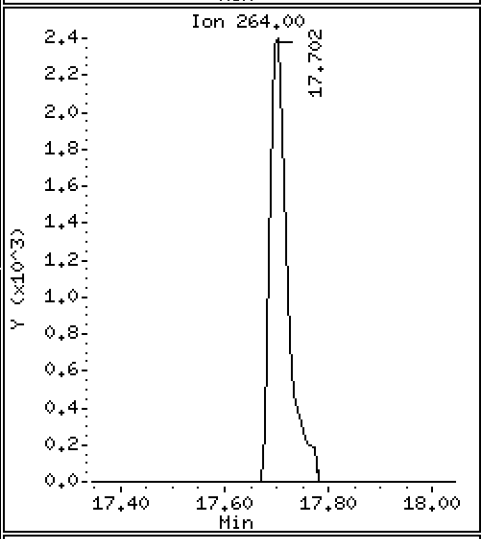
58 Pentachlorophenol

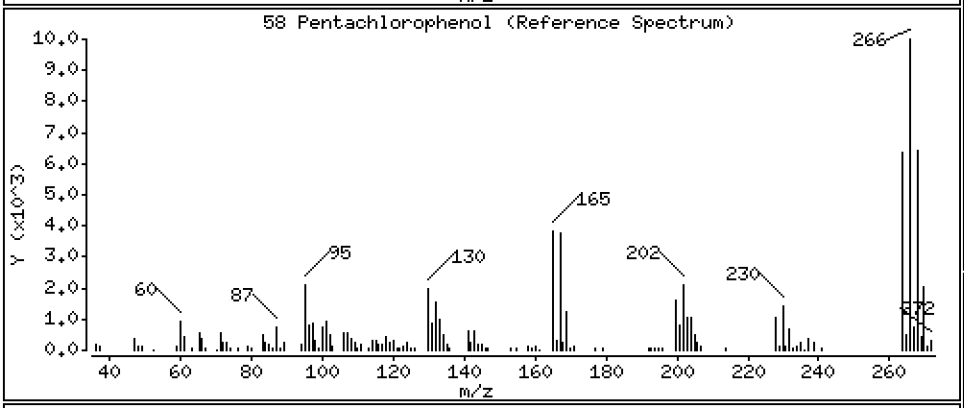
Concentration: 0.6025 ug/mL

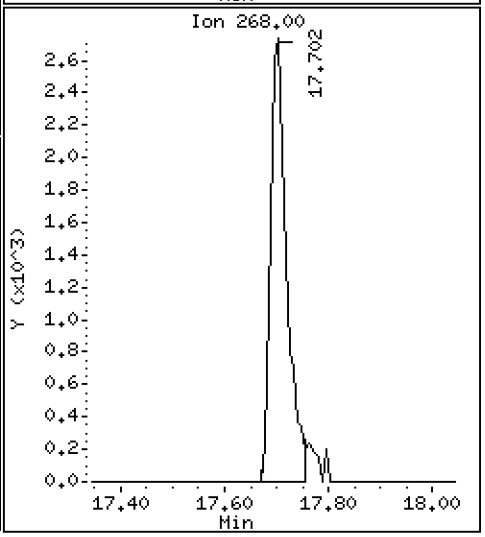


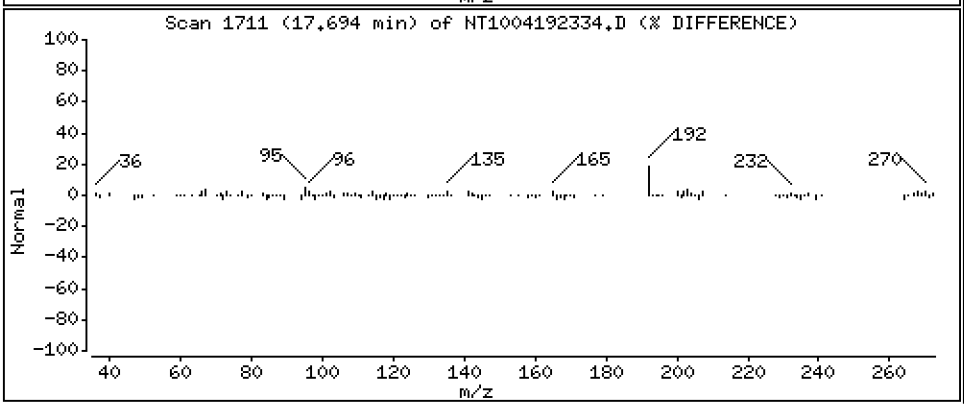












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

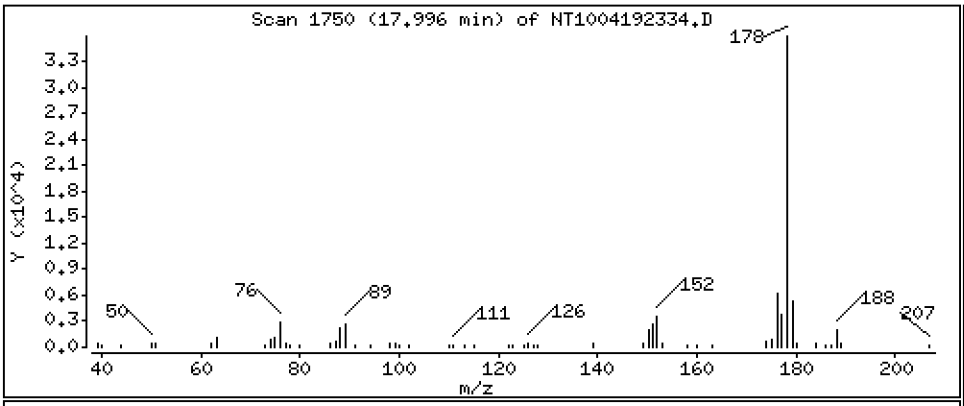
Operator: VTS

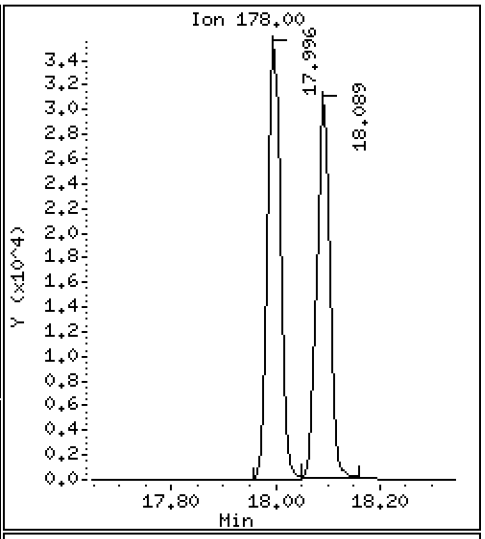
Column phase: ZB-5msi

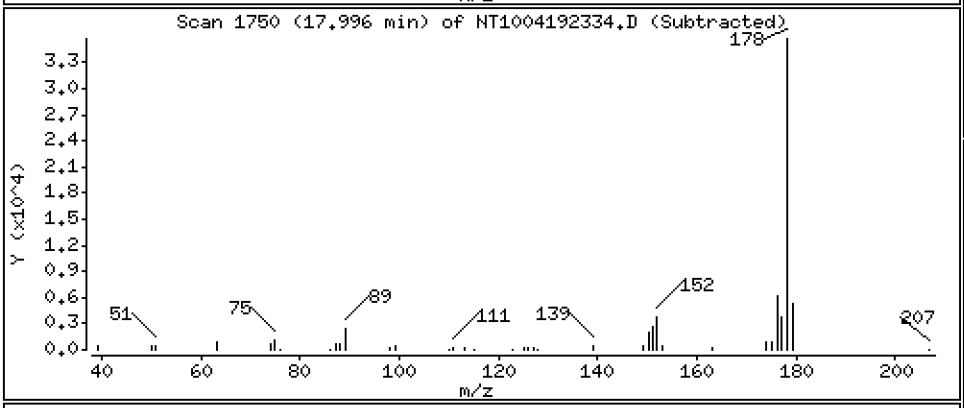
Column diameter: 0.25

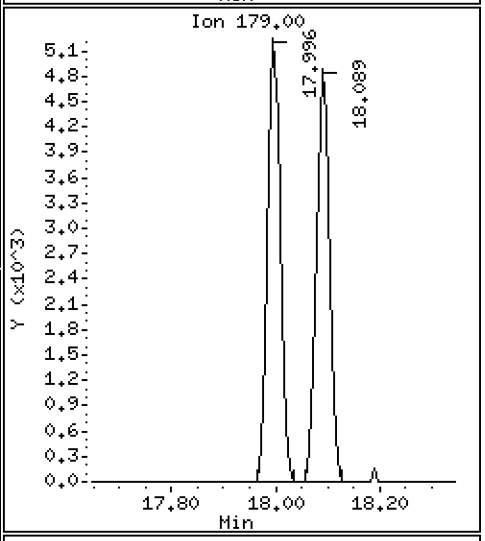
60 Phenanthrene

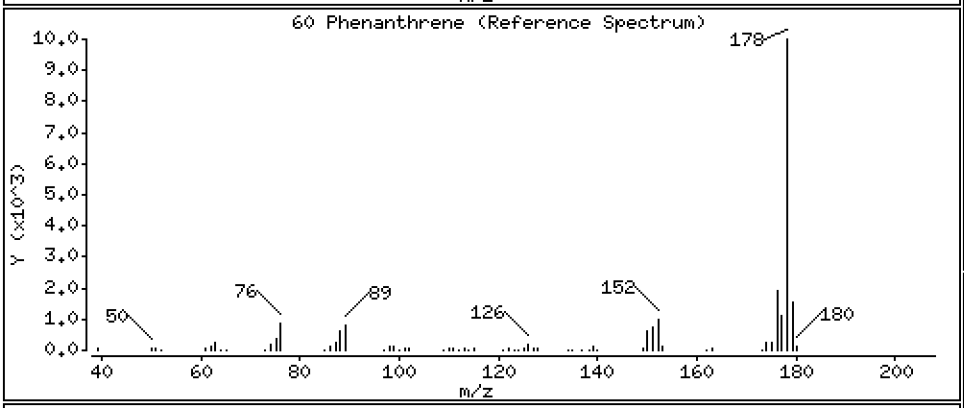
Concentration: 0.4850 ug/mL

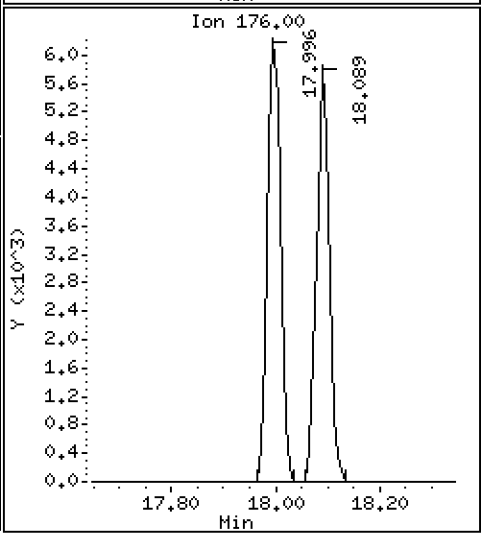


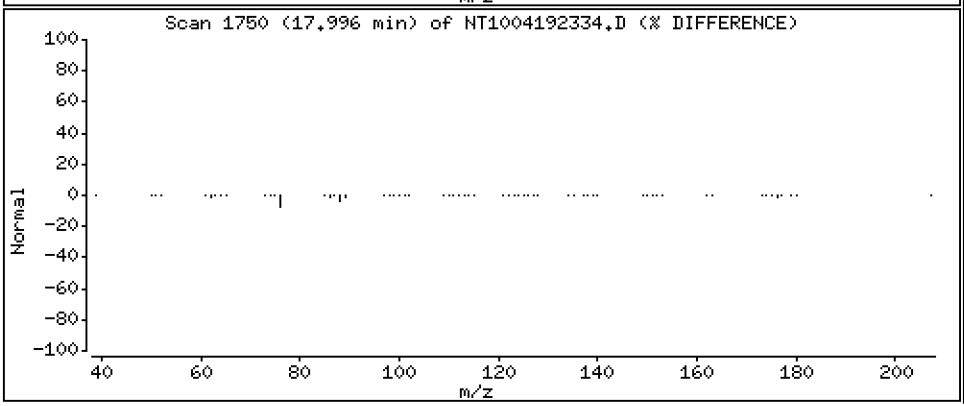












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

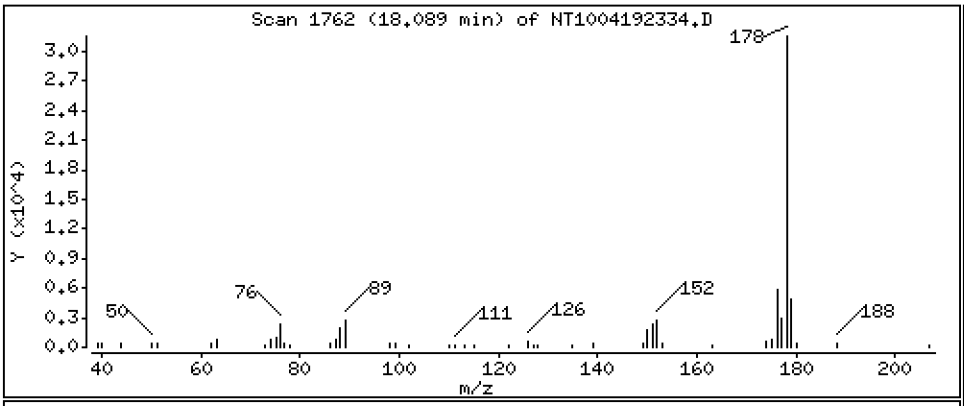
Operator: VTS

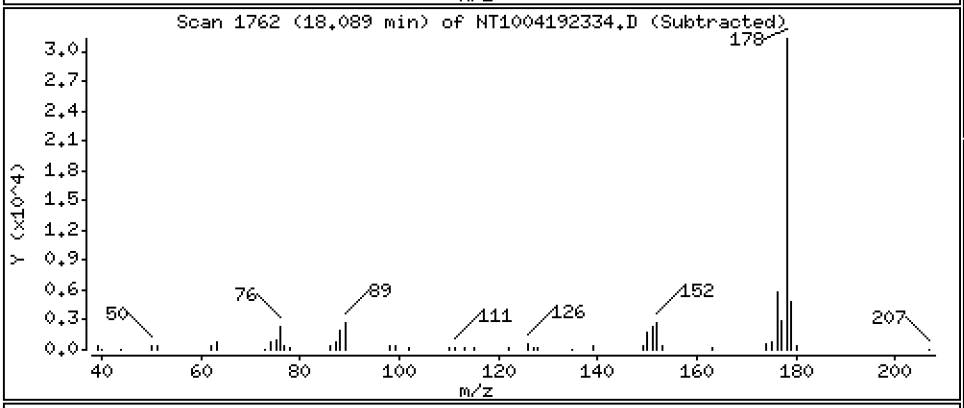
Column phase: ZB-5msi

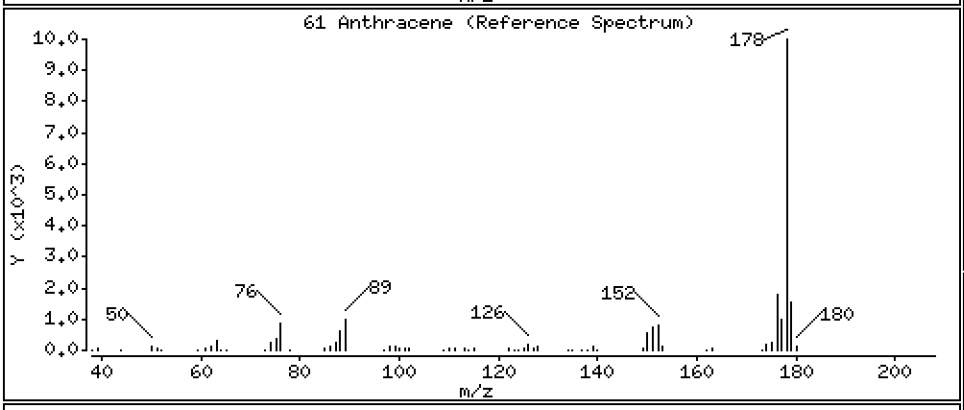
Column diameter: 0.25

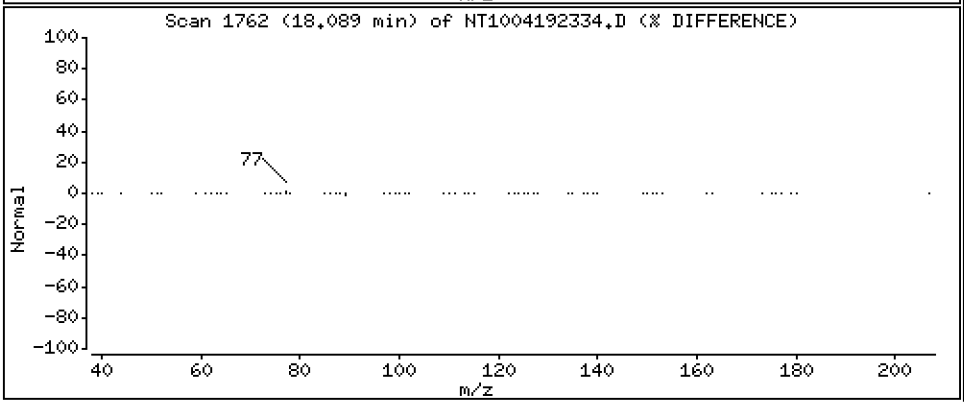
61 Anthracene

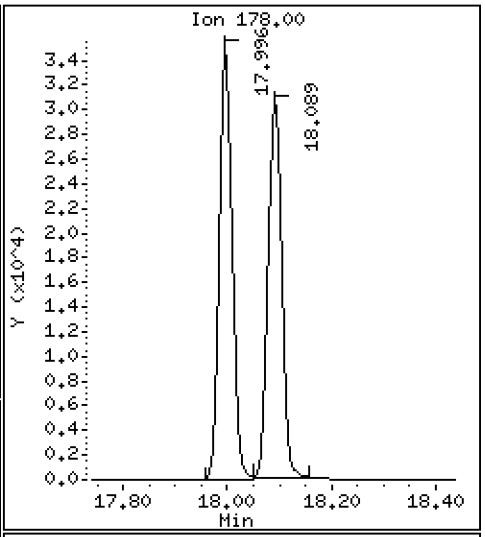
Concentration: 0.4627 ug/mL

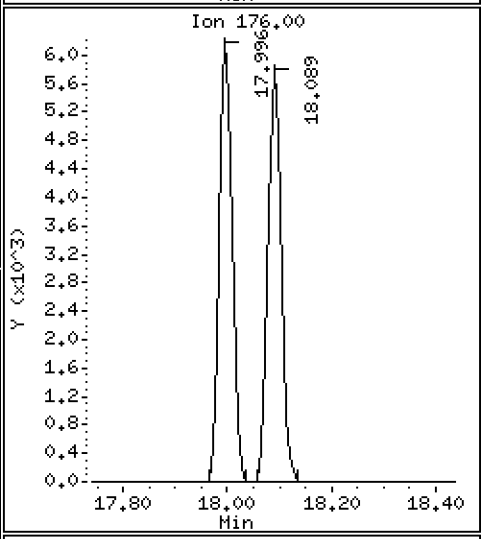


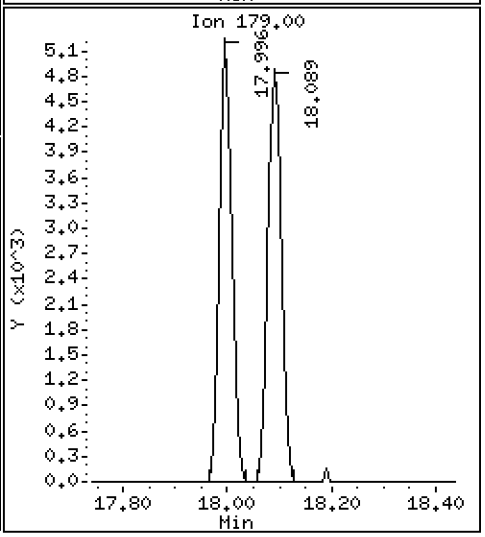












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

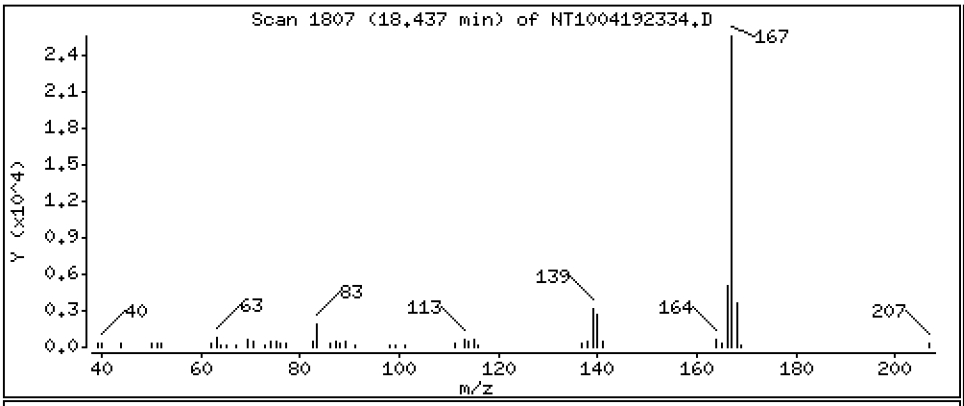
Operator: VTS

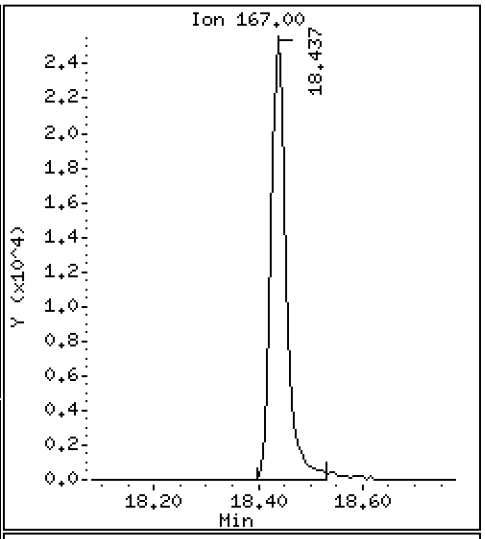
Column phase: ZB-5msi

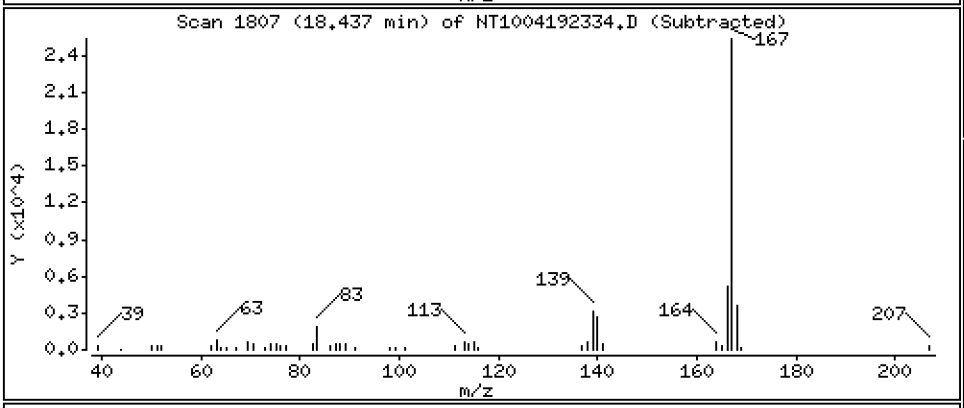
Column diameter: 0.25

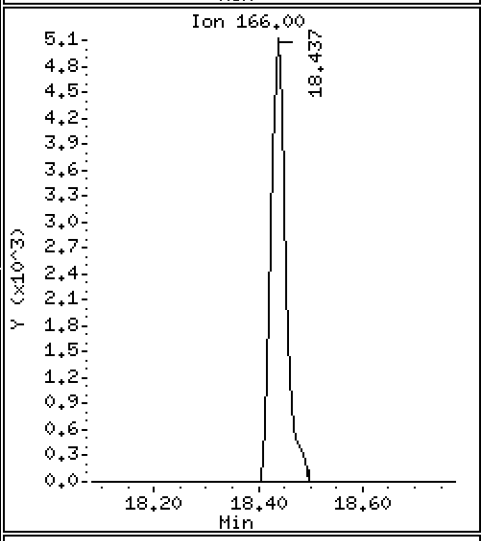
62 Carbazole

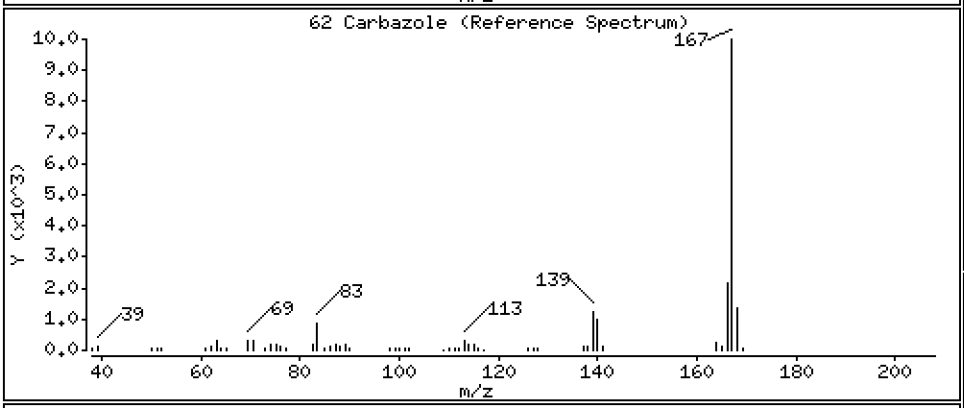
Concentration: 0.4815 ug/mL

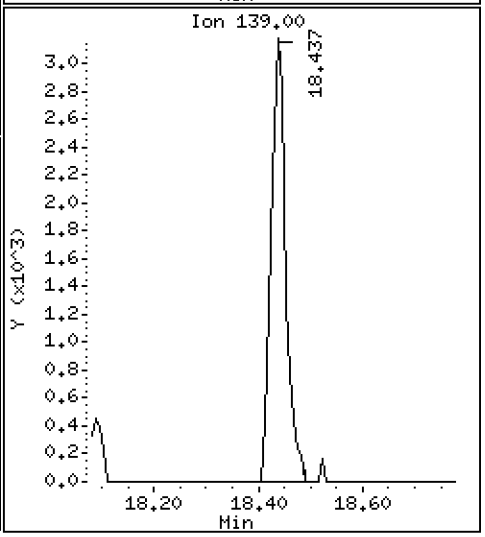


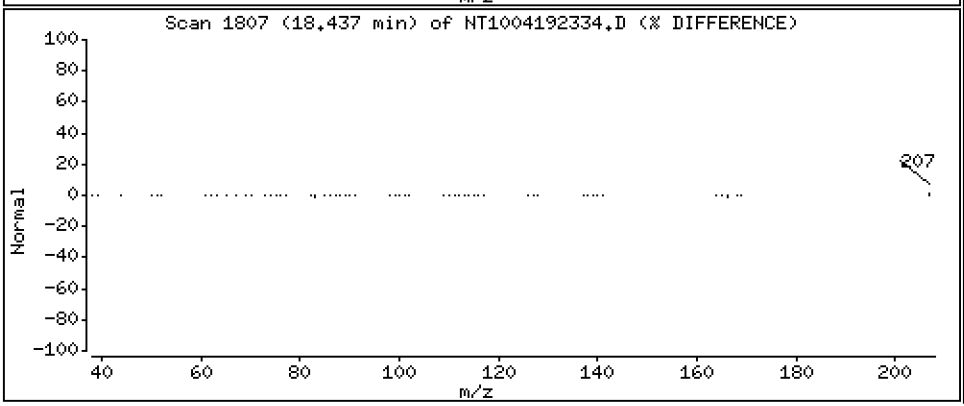












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

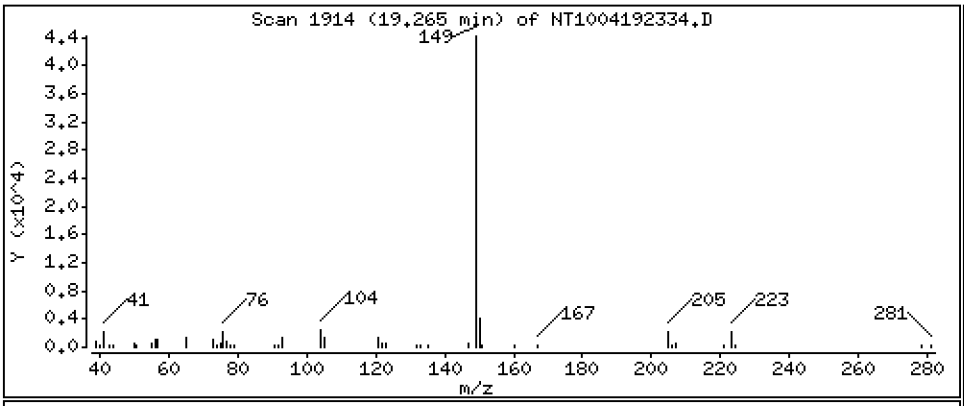
Operator: VTS

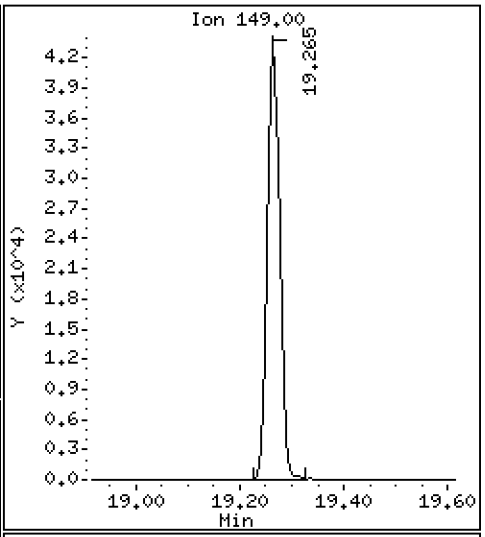
Column phase: ZB-5msi

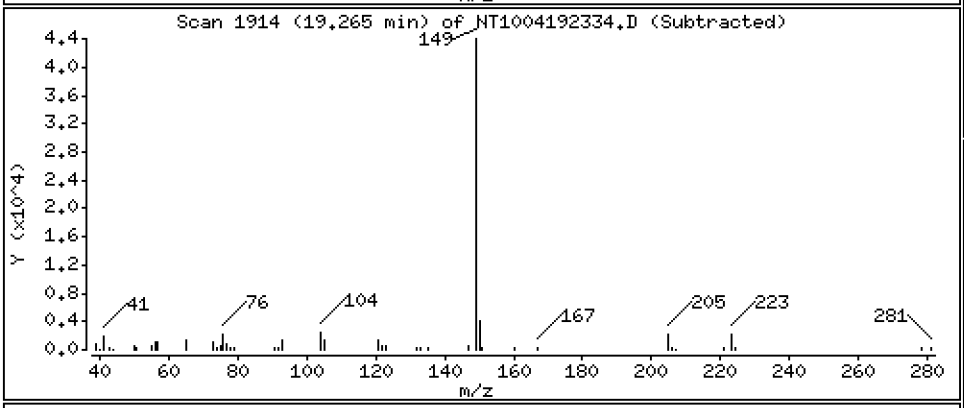
Column diameter: 0.25

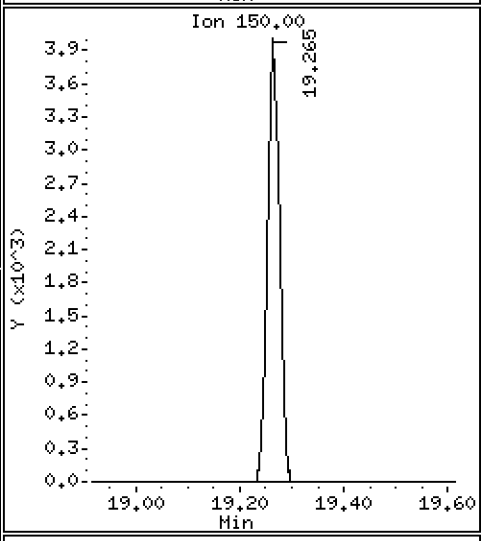
63 Di-n-butylphthalate

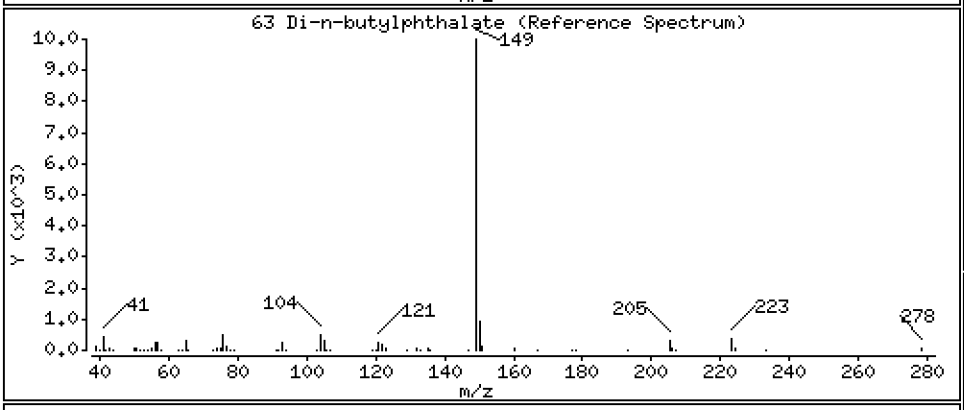
Concentration: 0.4883 ug/mL

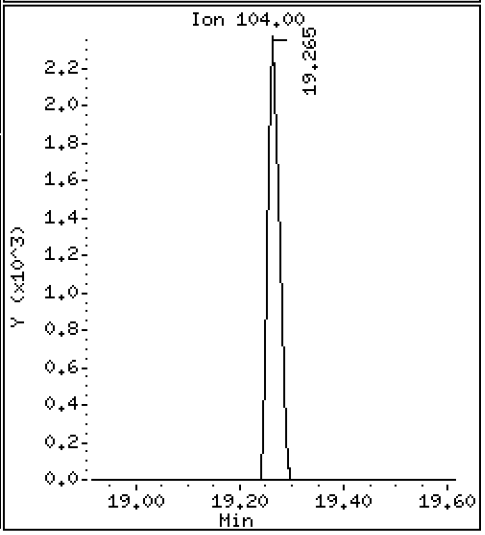


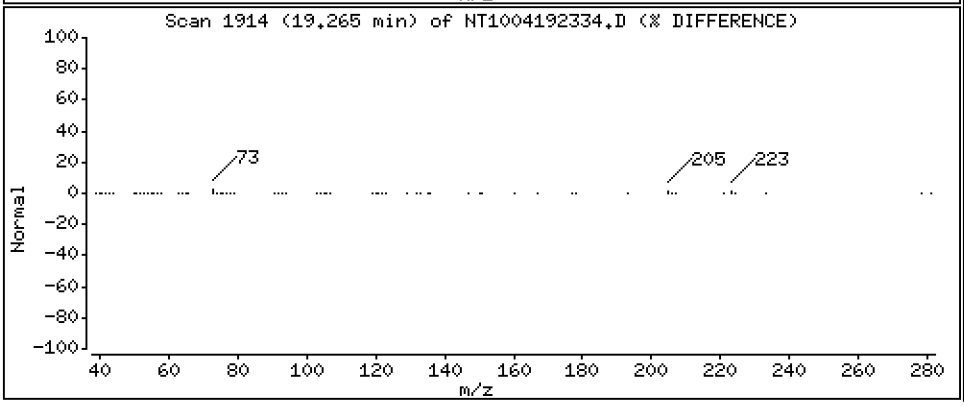












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192334.D

Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

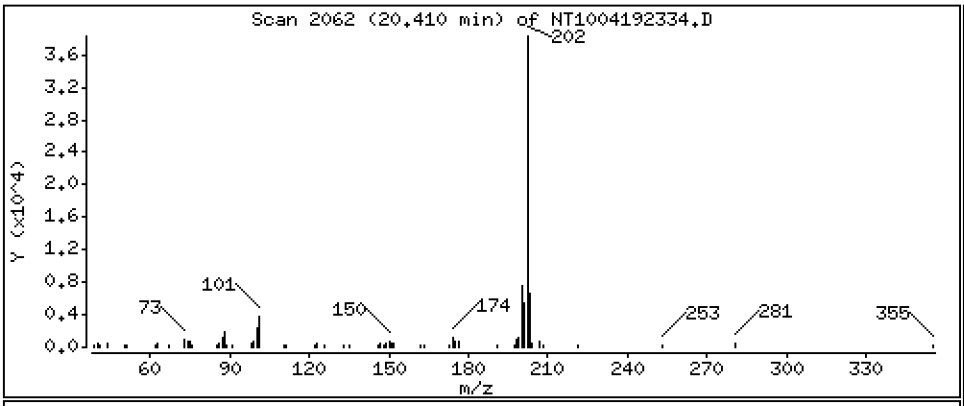
Operator: VTS

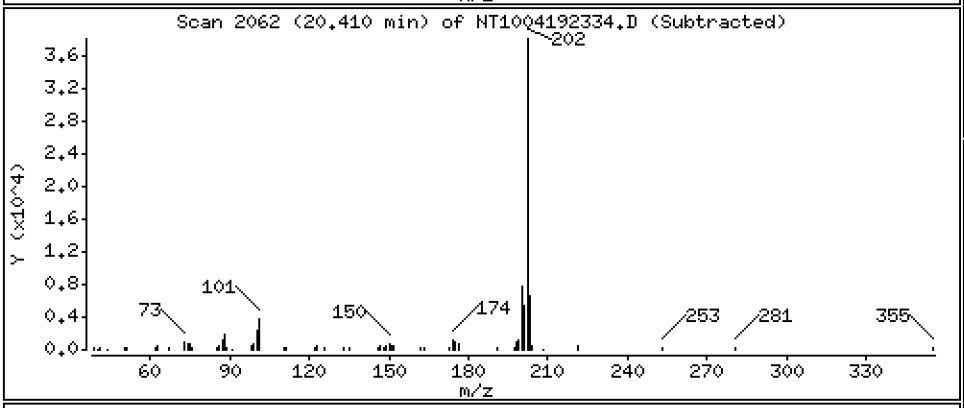
Column phase: ZB-5msi

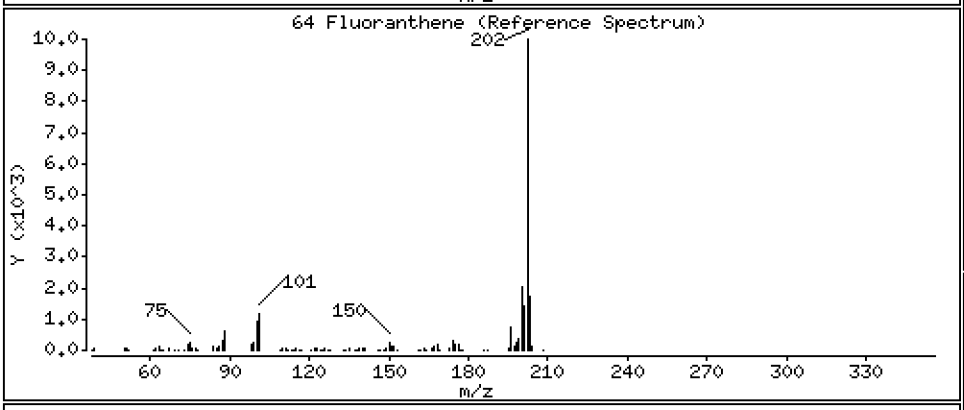
Column diameter: 0.25

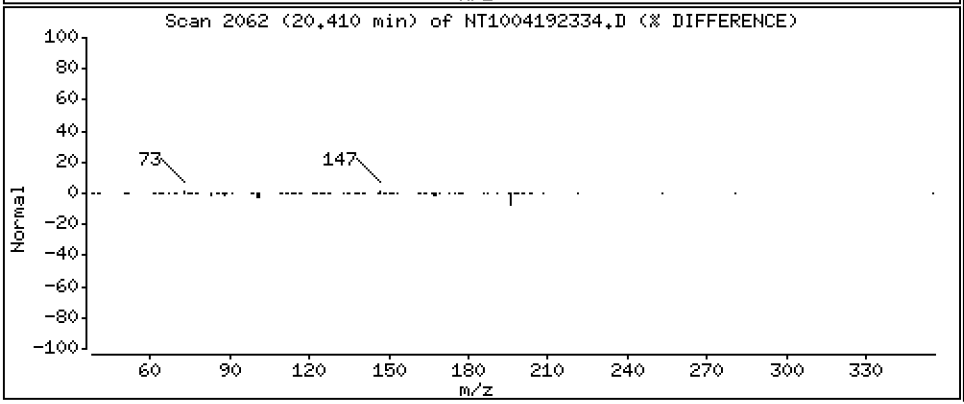
64 Fluoranthene

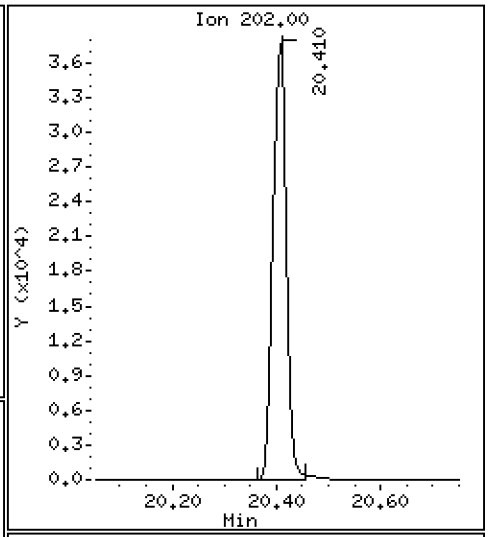
Concentration: 0.3716 ug/mL

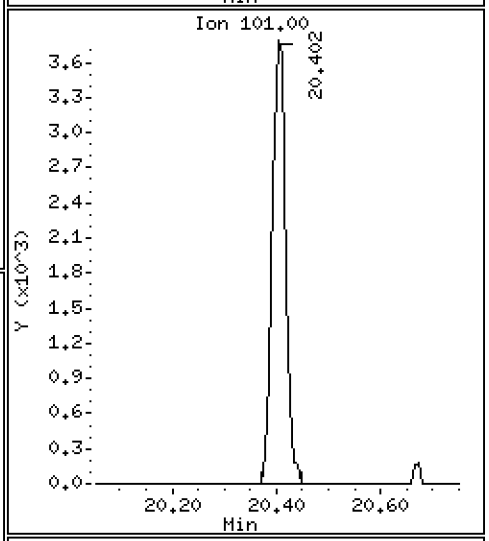


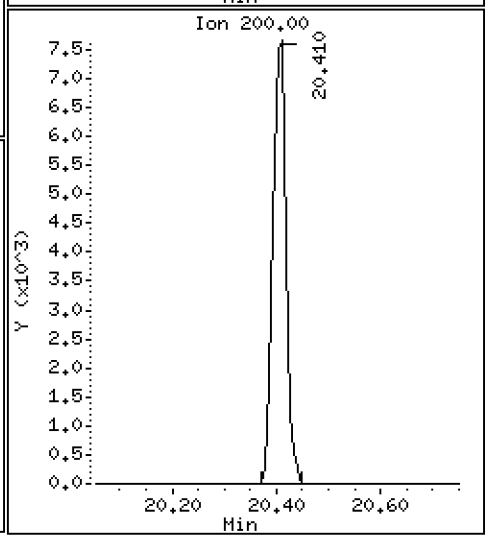












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

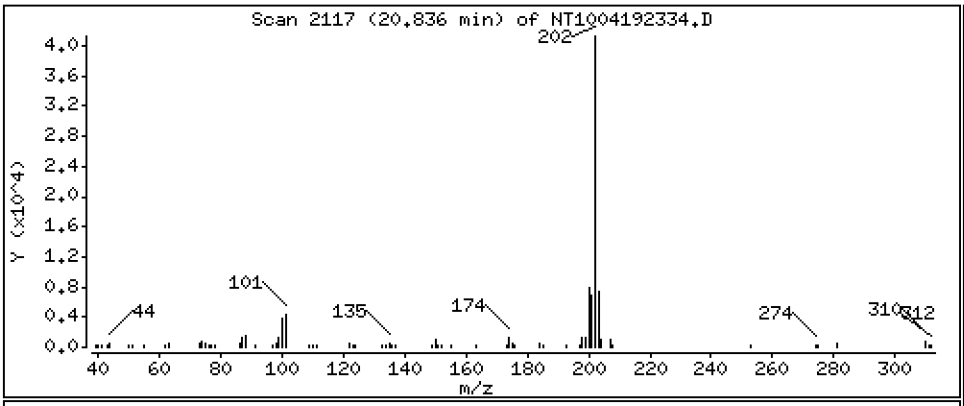
Operator: VTS

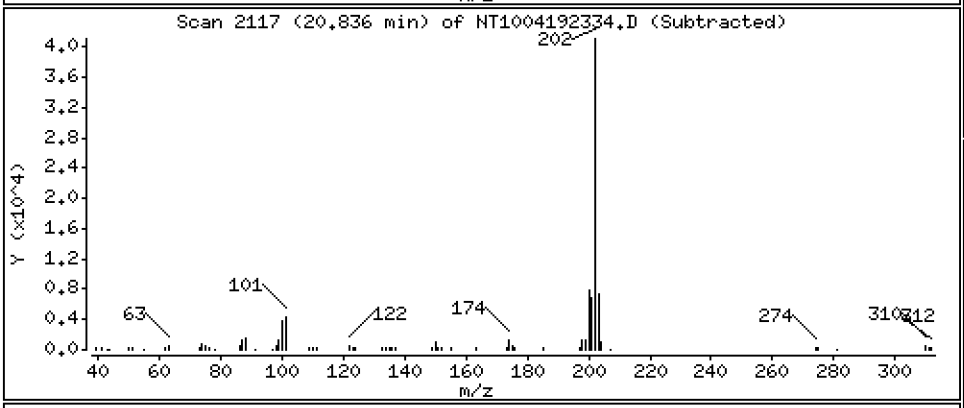
Column phase: ZB-5msi

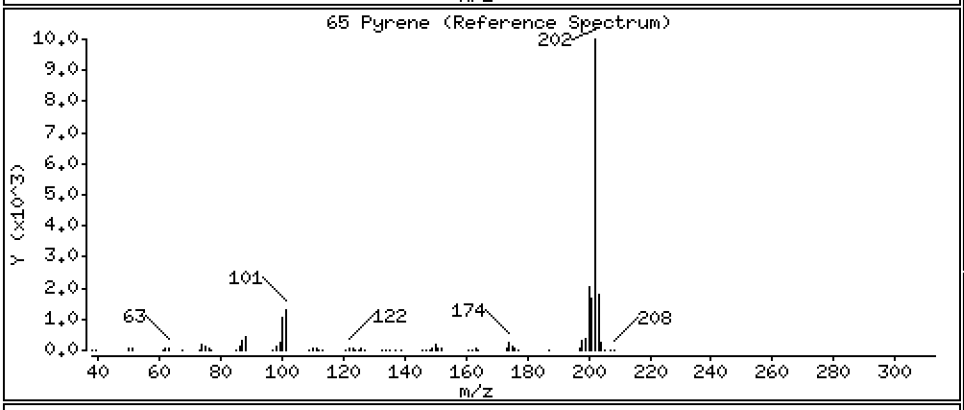
Column diameter: 0.25

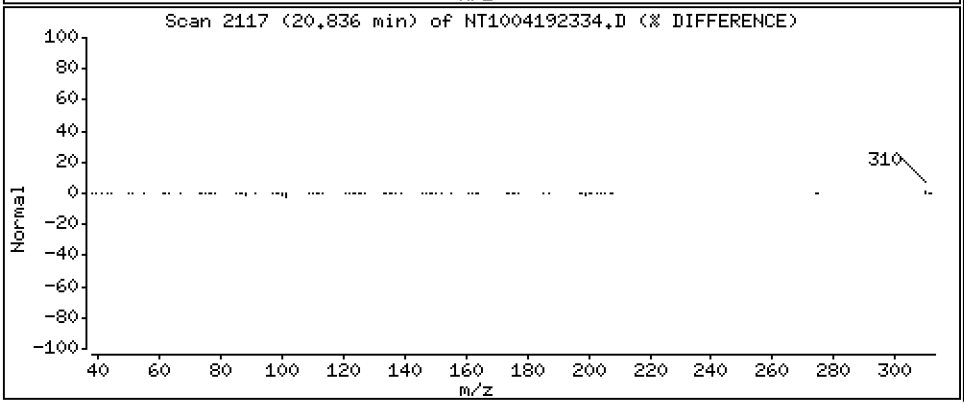
65 Pyrene

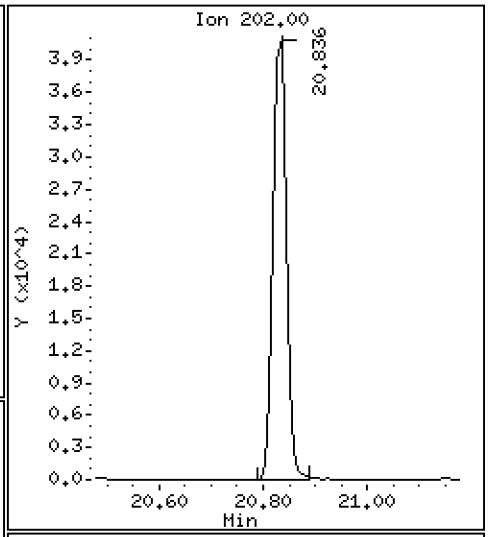
Concentration: 0.3906 ug/mL

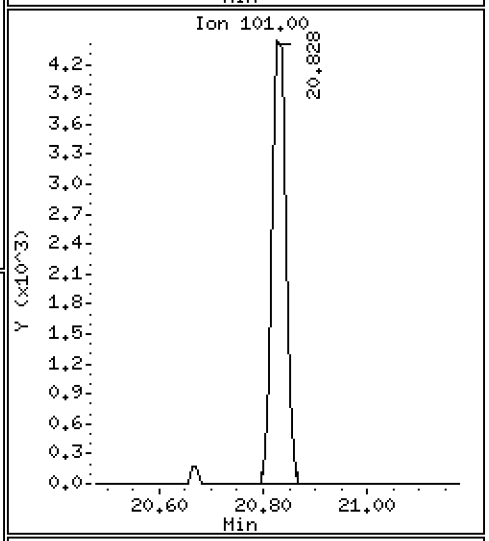


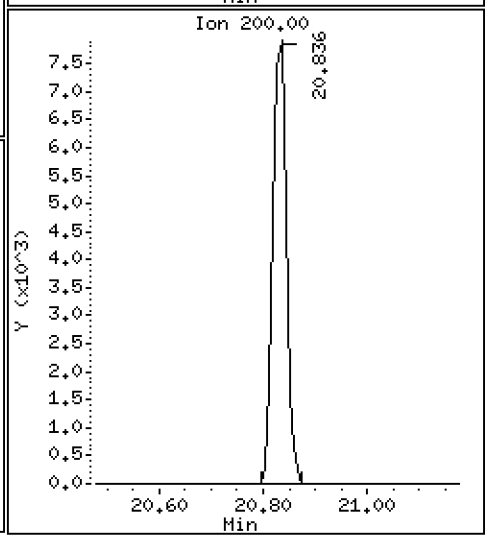












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

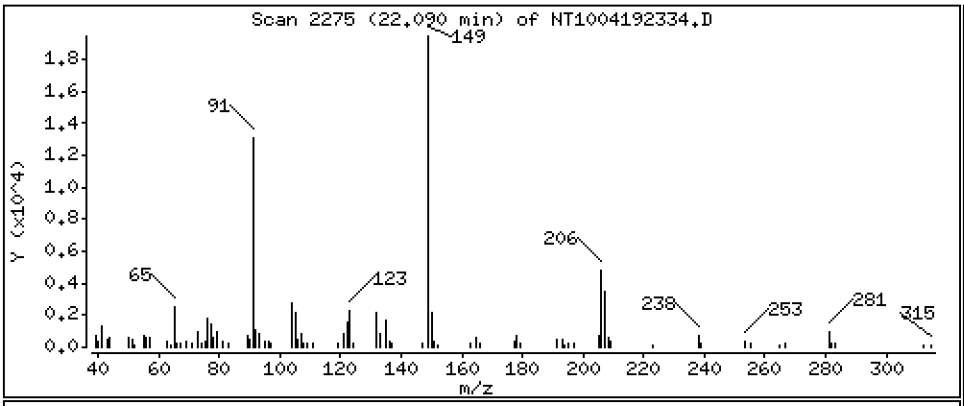
Operator: VTS

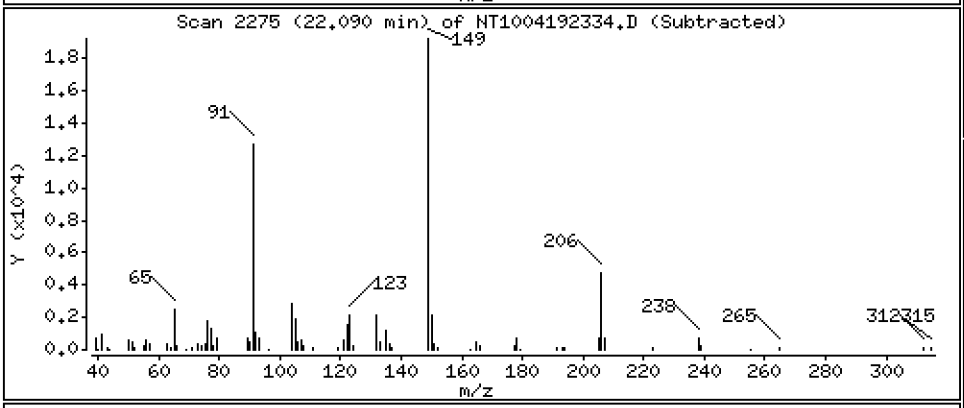
Column phase: ZB-5msi

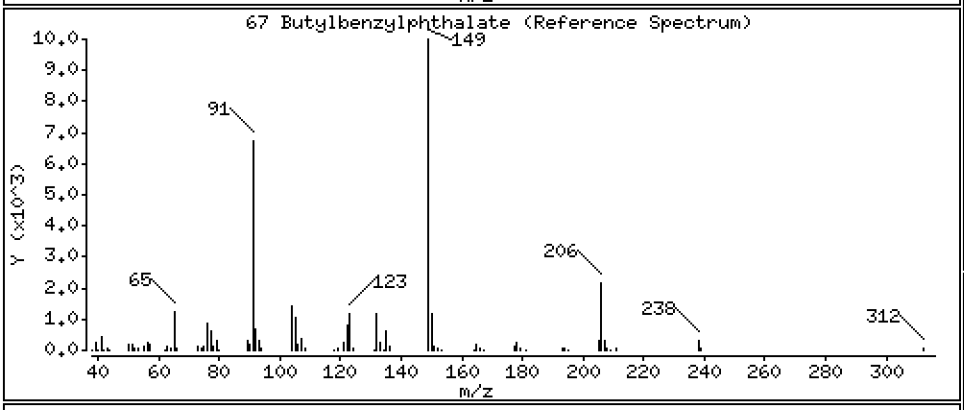
Column diameter: 0.25

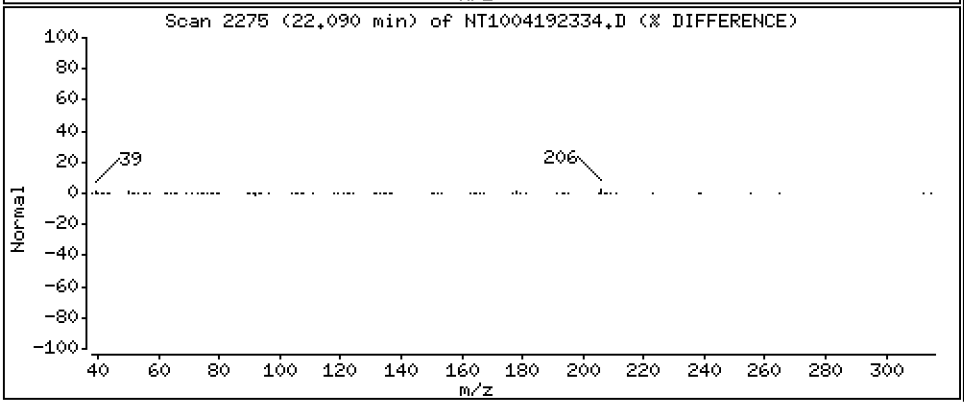
67 Butylbenzylphthalate

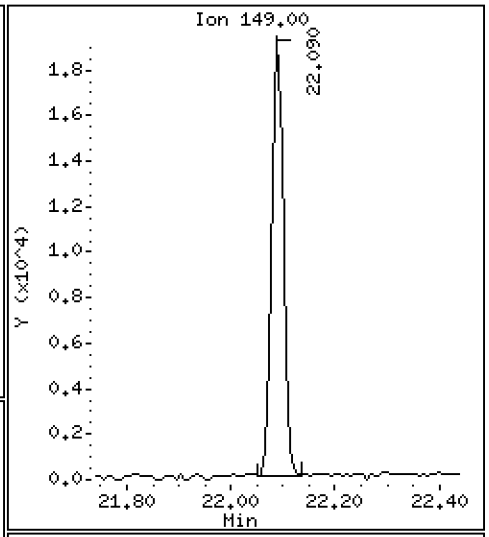
Concentration: 0.4481 ug/mL

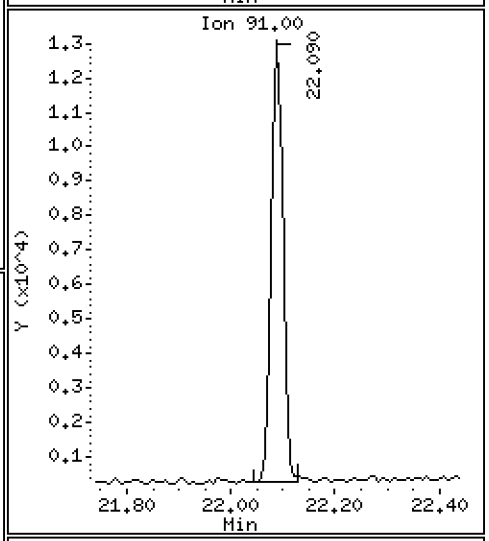


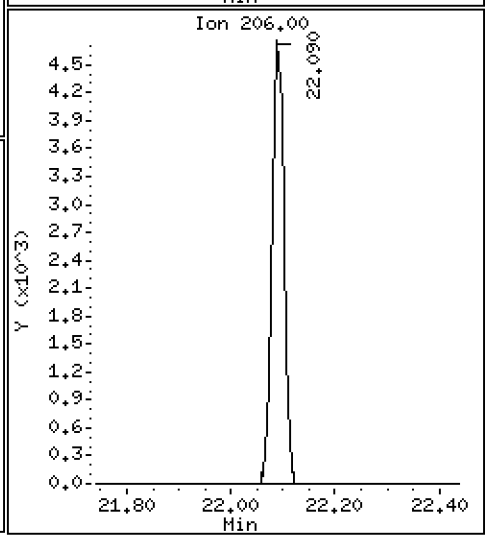












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

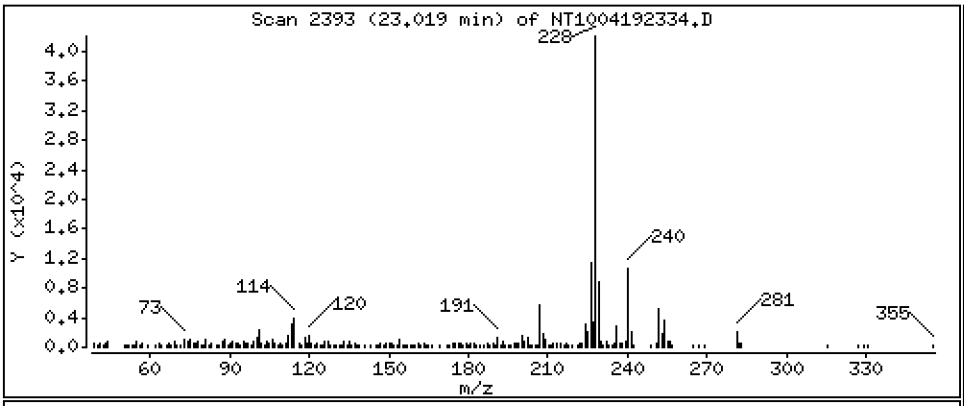
Operator: VTS

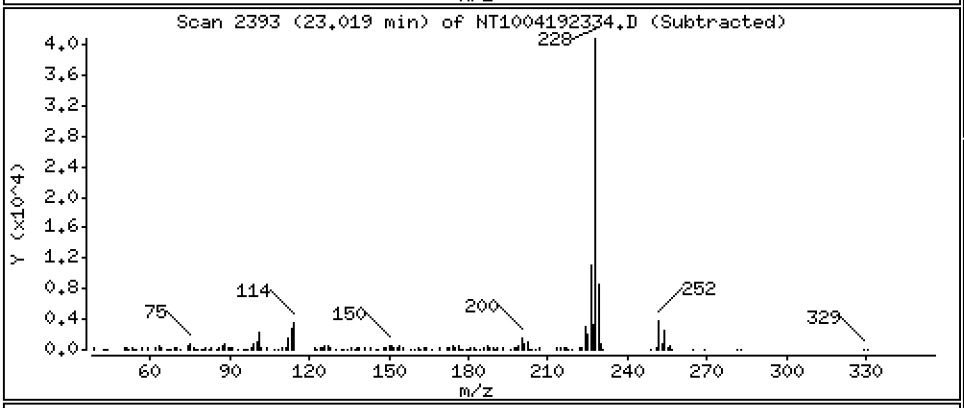
Column phase: ZB-5msi

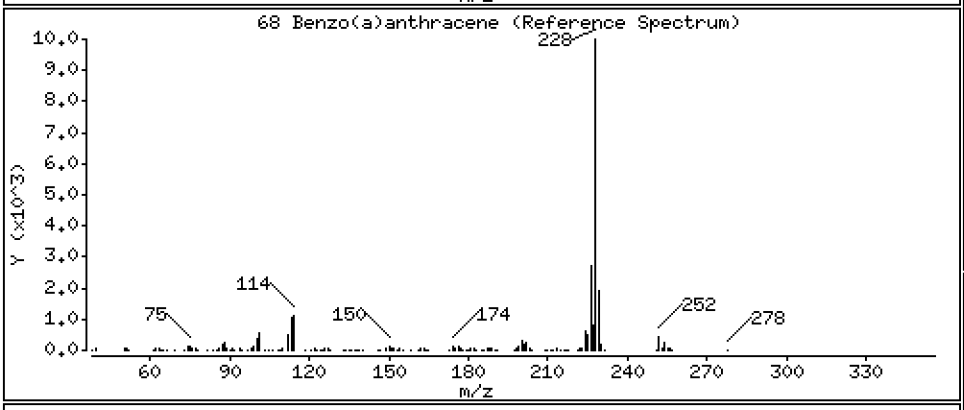
Column diameter: 0.25

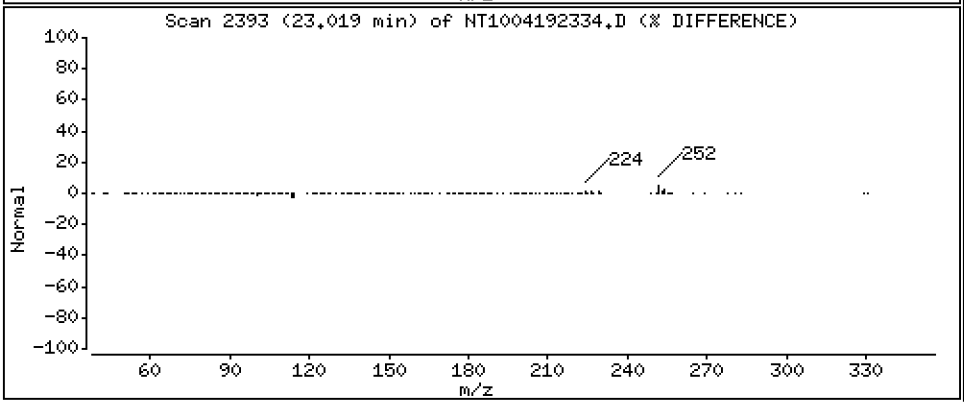
68 Benzo(a)anthracene

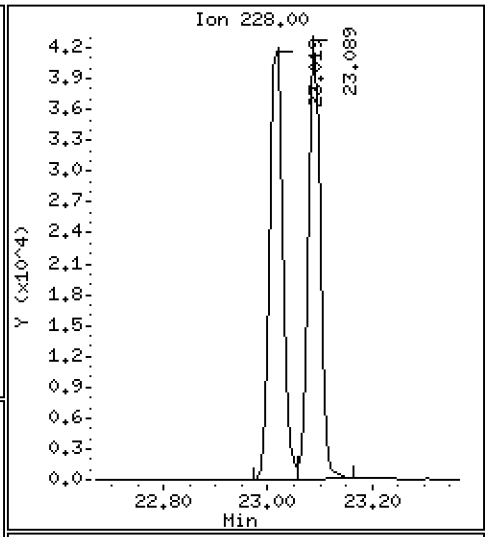
Concentration: 0.4605 ug/mL

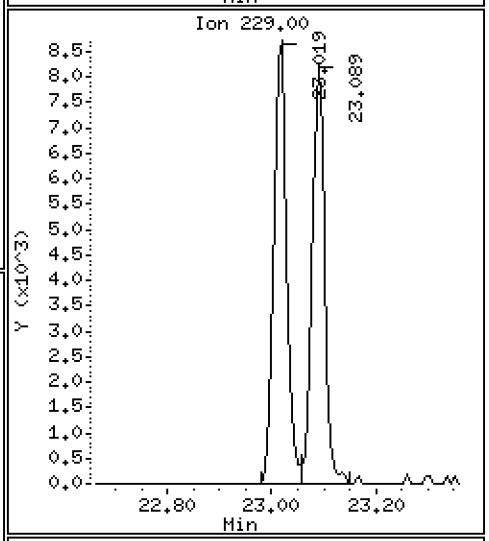


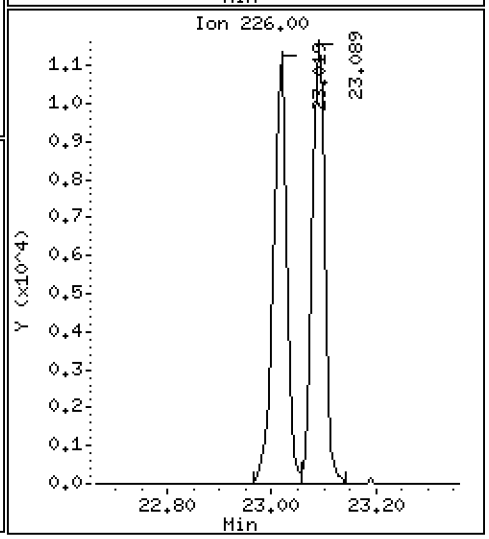












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

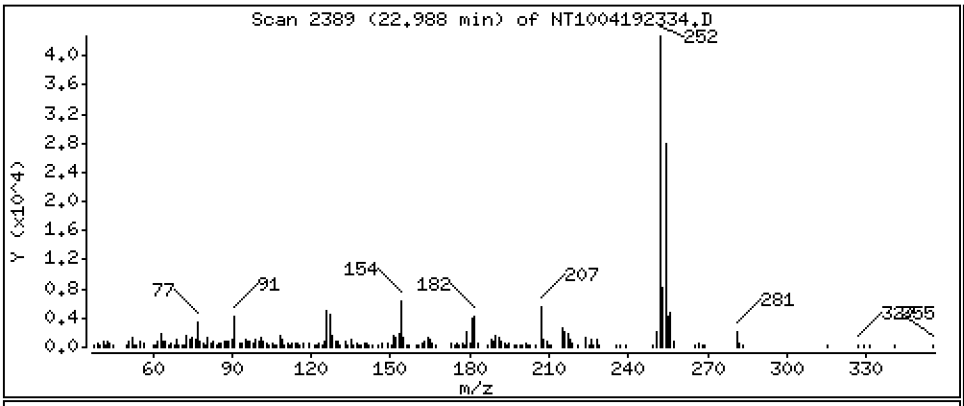
Operator: VTS

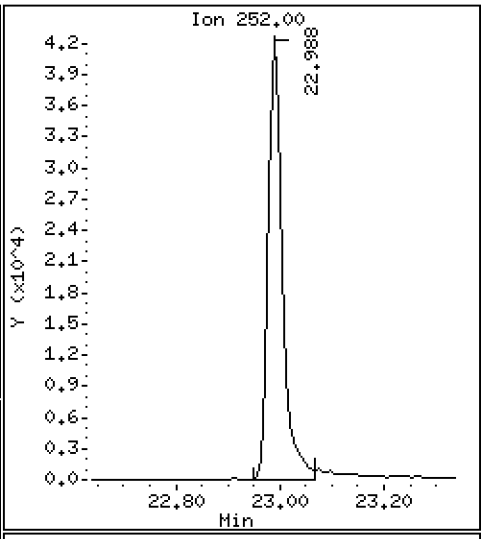
Column phase: ZB-5msi

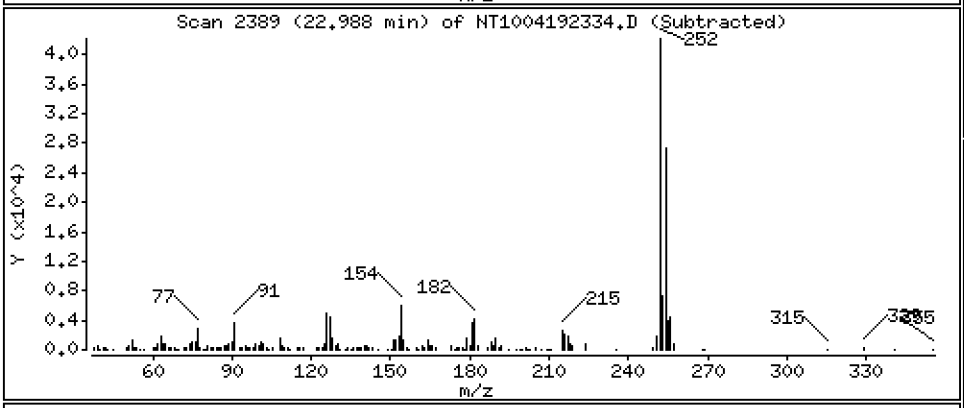
Column diameter: 0.25

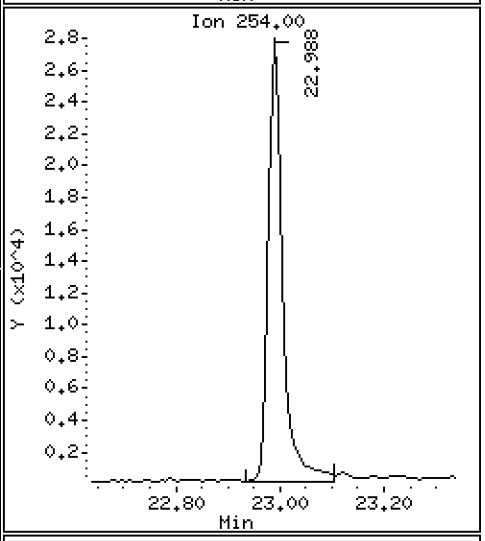
70 3,3'-Dichlorobenzidine

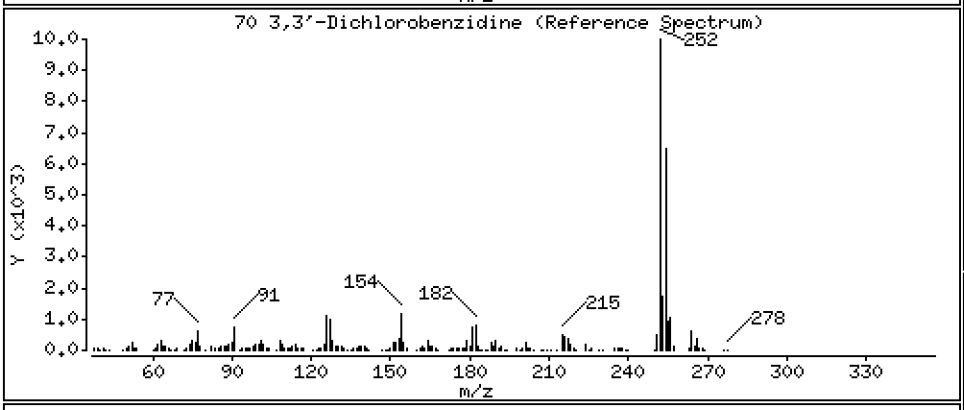
Concentration: 1.589 ug/mL

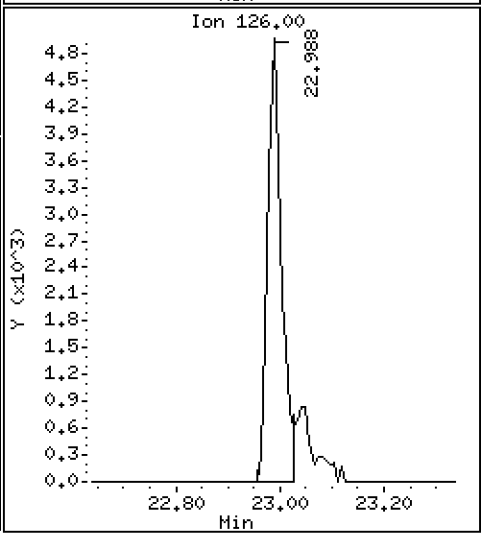


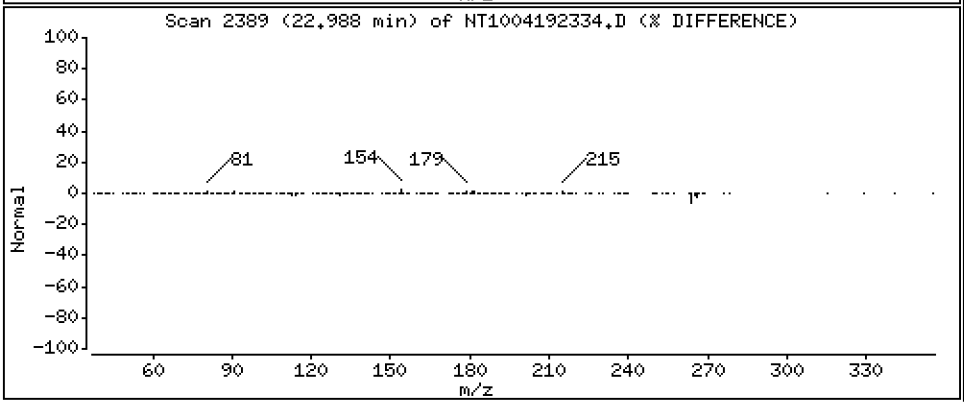












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

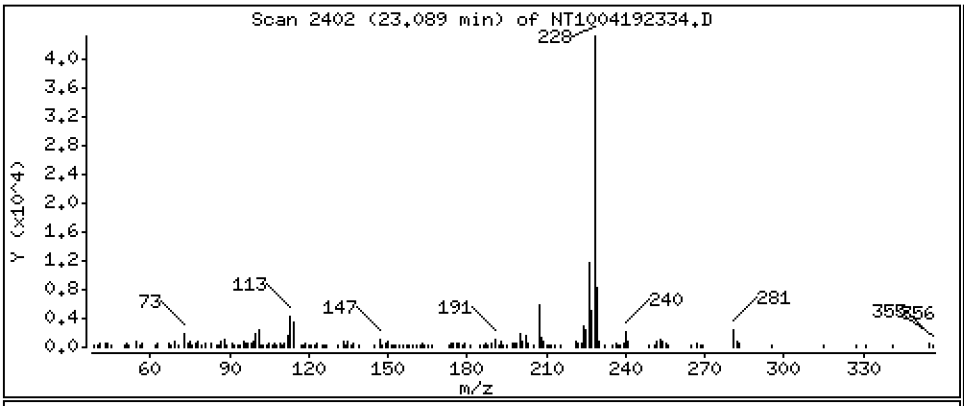
Operator: VTS

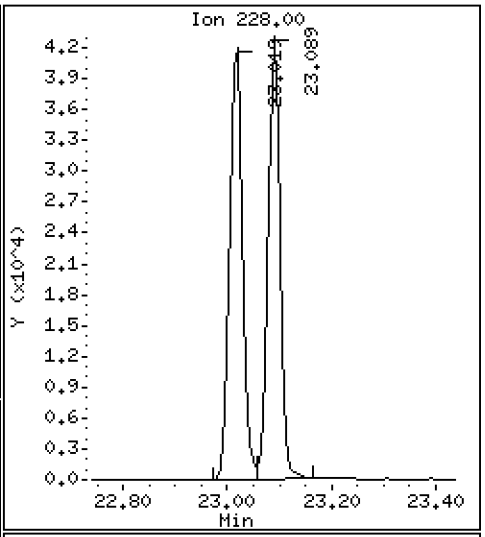
Column phase: ZB-5msi

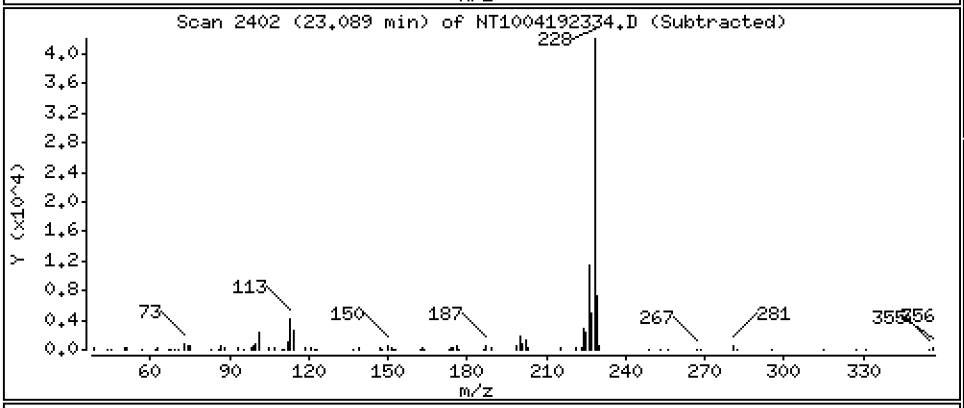
Column diameter: 0.25

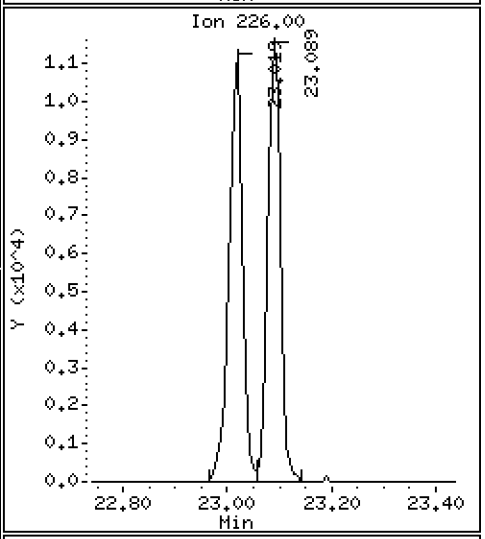
71 Chrysene

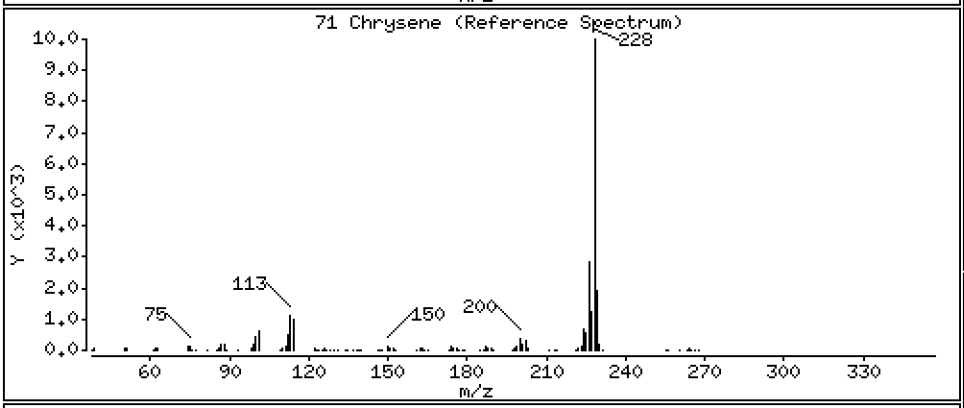
Concentration: 0.4314 ug/mL

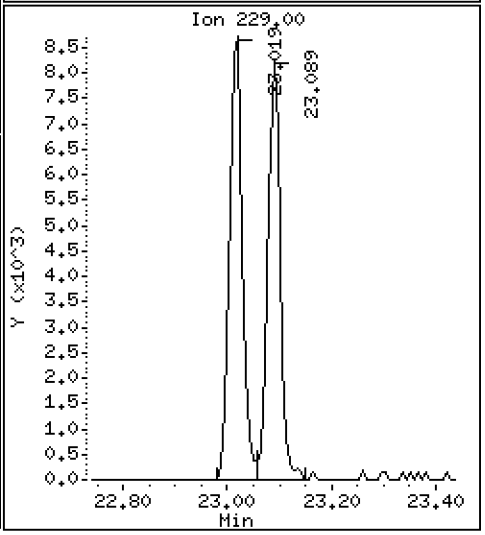


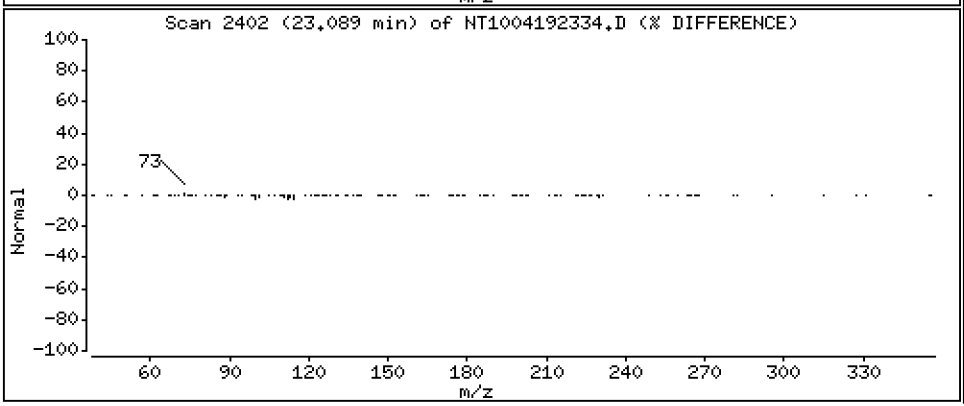












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

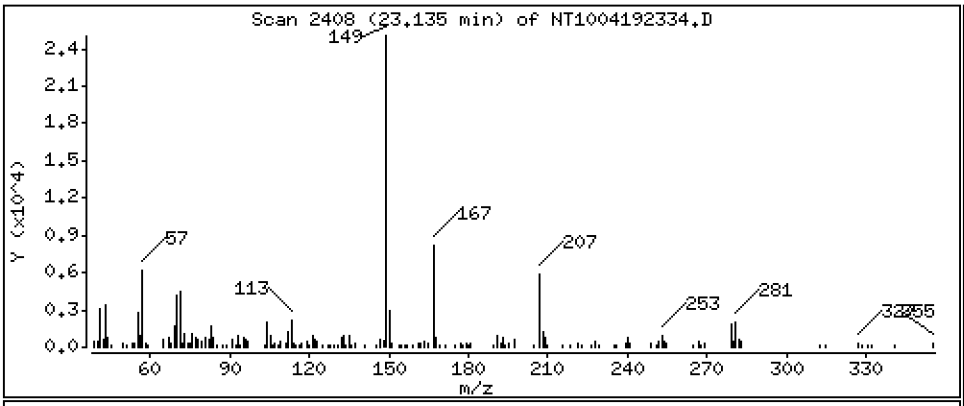
Operator: VTS

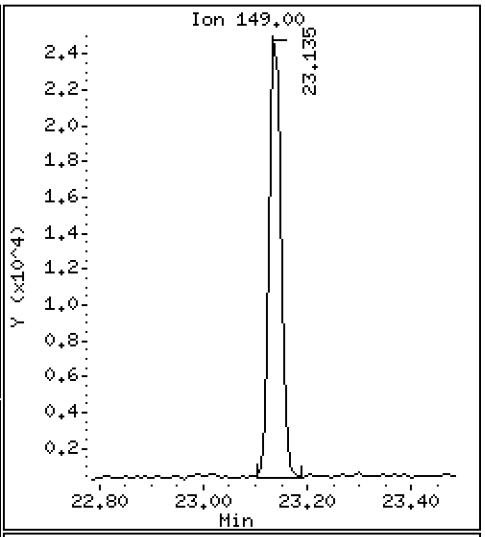
Column phase: ZB-5msi

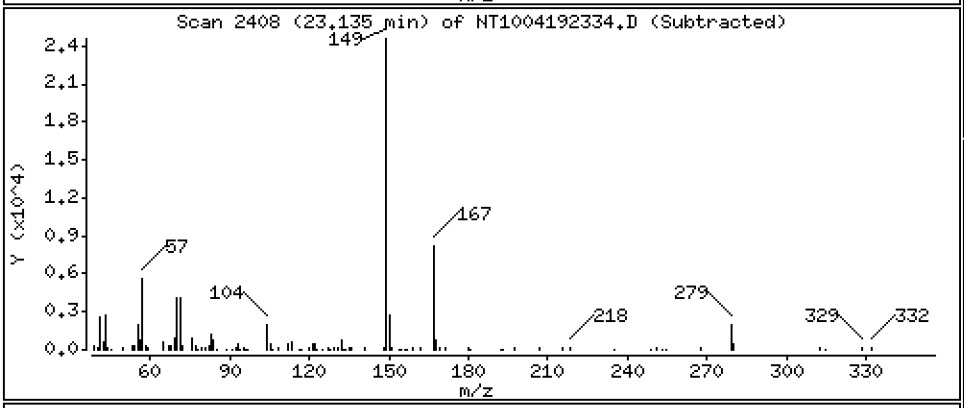
Column diameter: 0.25

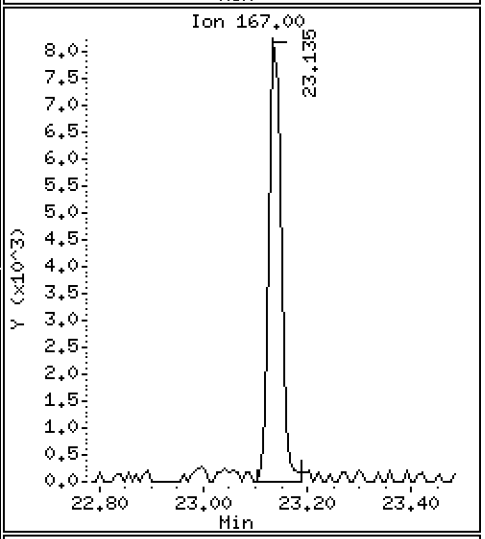
72 bis(2-Ethylhexyl)phthalate

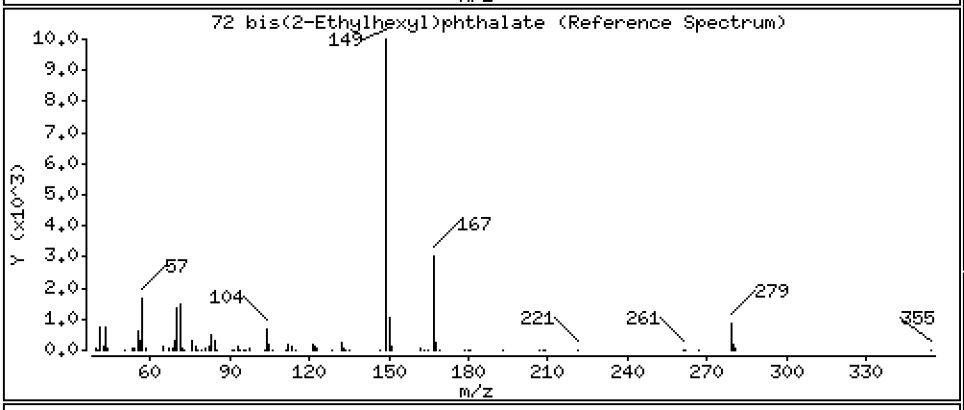
Concentration: 0.4217 ug/mL

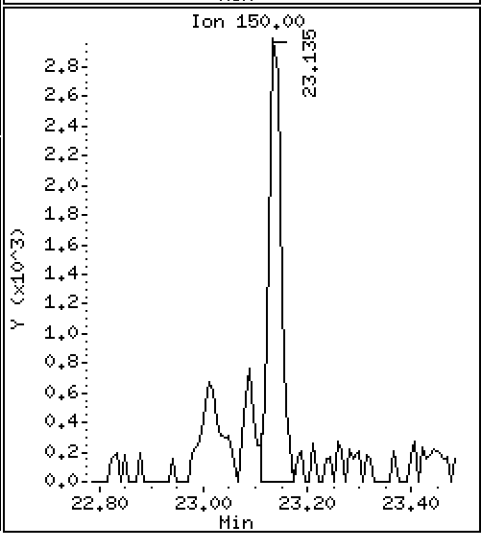


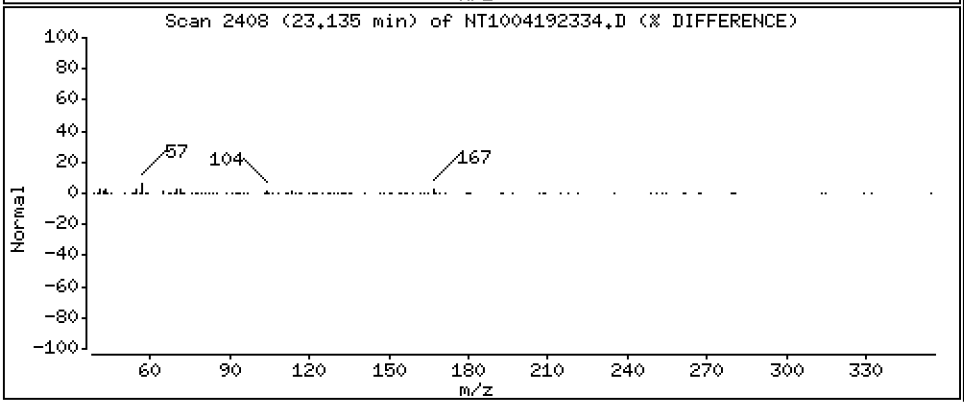












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192334.D

Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

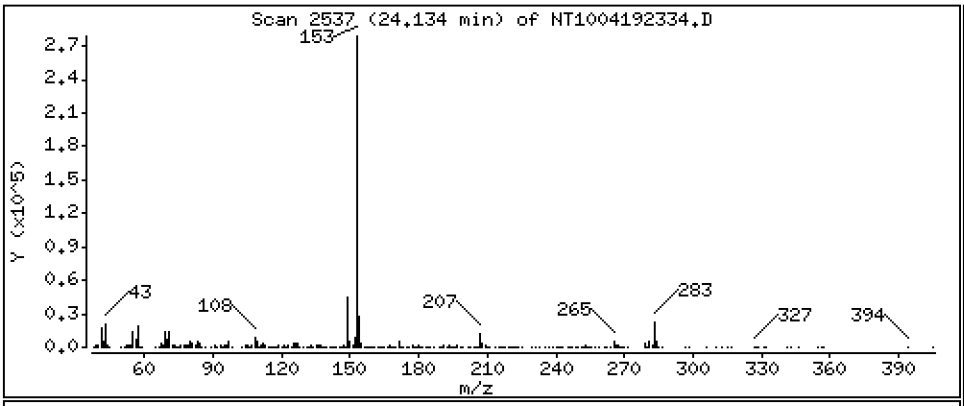
Operator: VTS

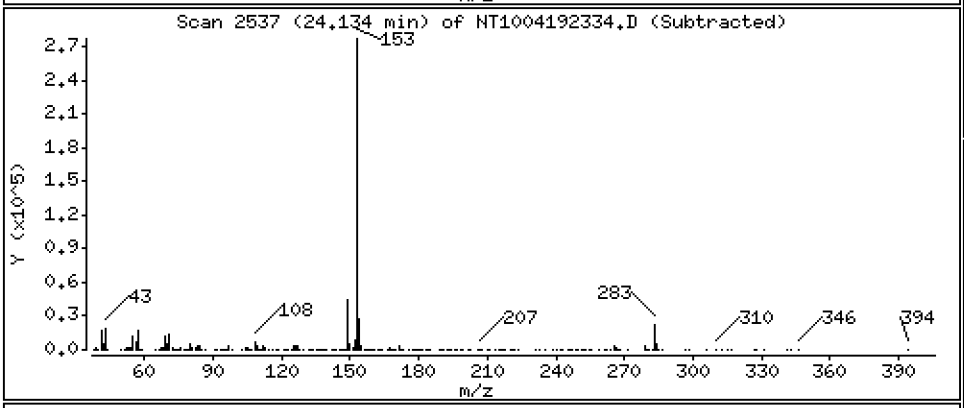
Column phase: ZB-5msi

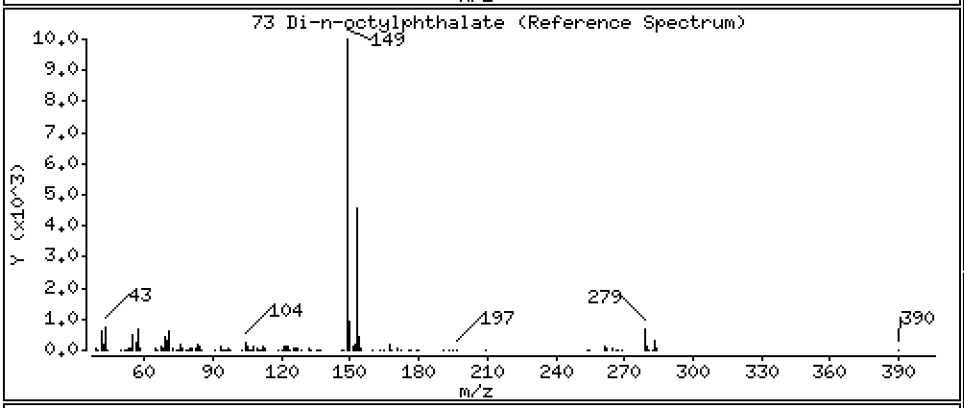
Column diameter: 0.25

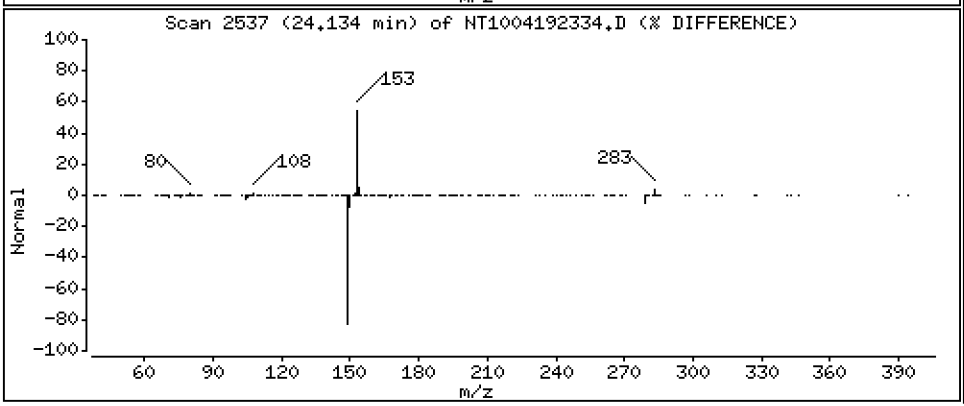
73 Di-n-octylphthalate

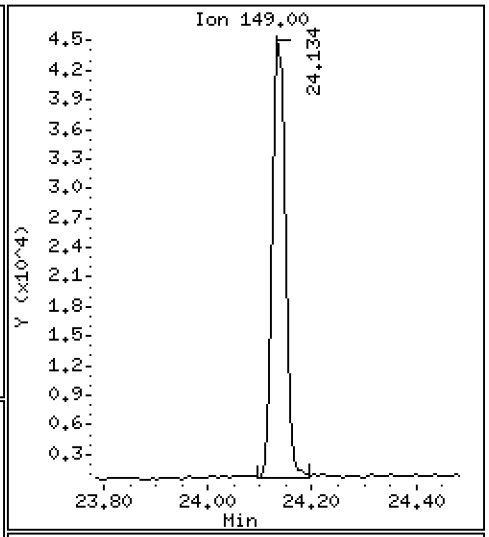
Concentration: 0.4754 ug/mL

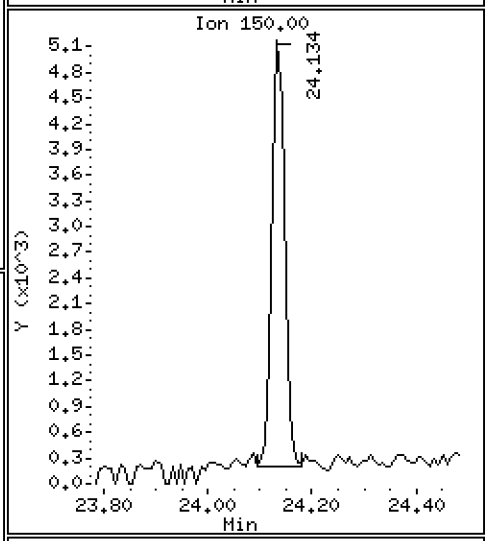


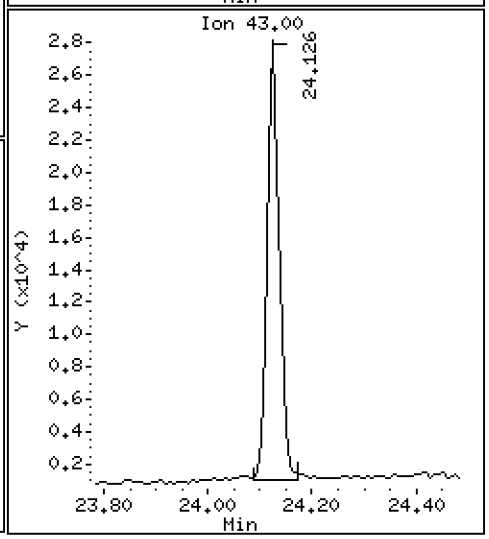












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

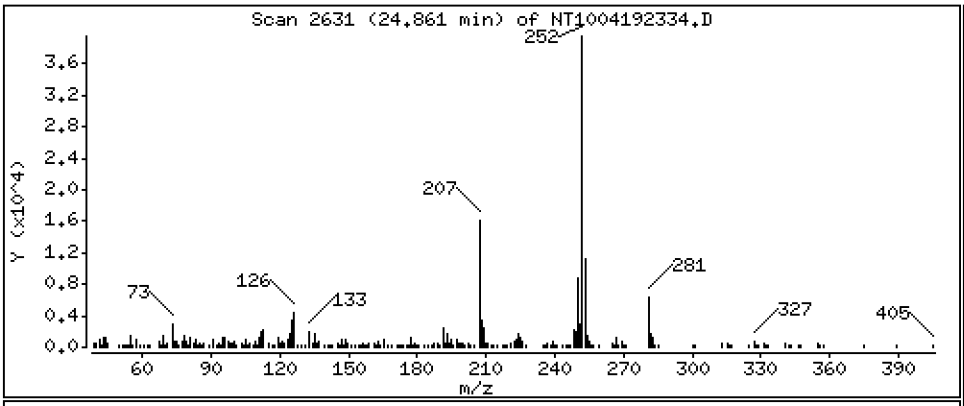
Operator: VTS

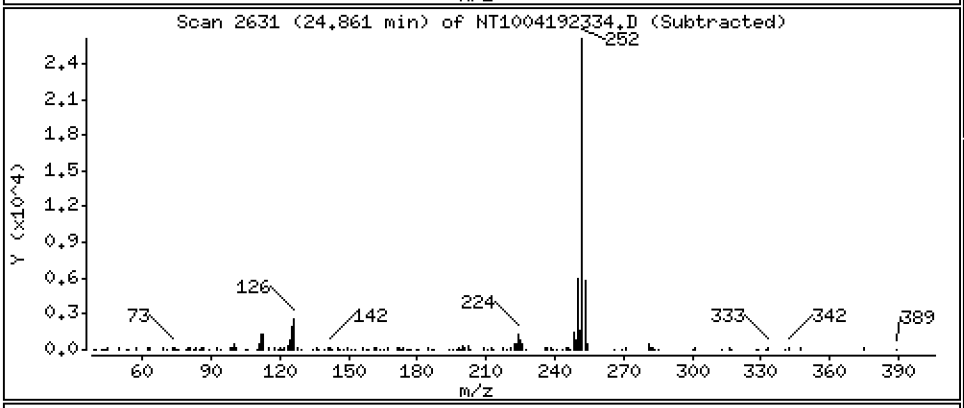
Column phase: ZB-5msi

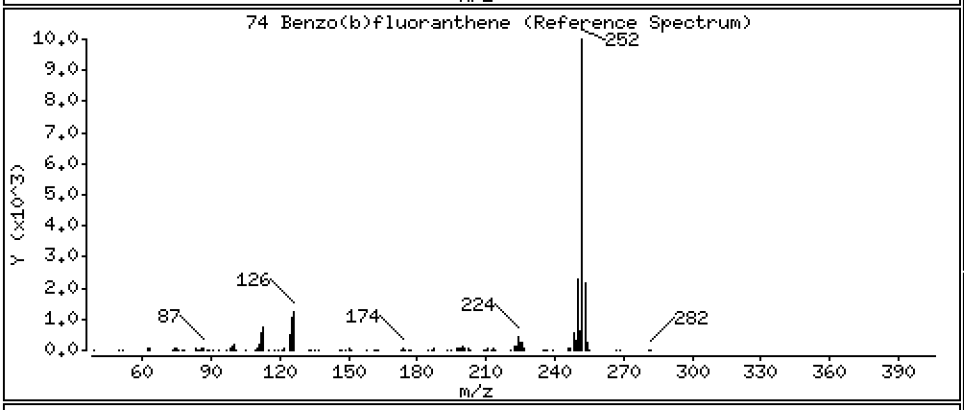
Column diameter: 0.25

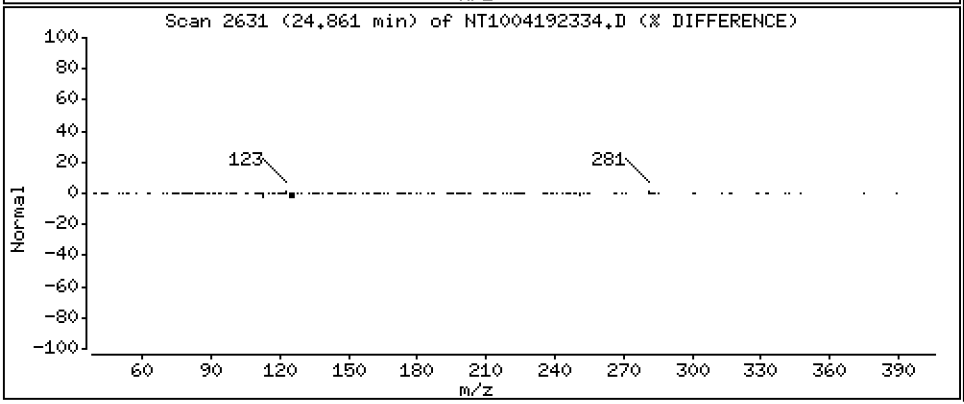
74 Benzo(b)fluoranthene

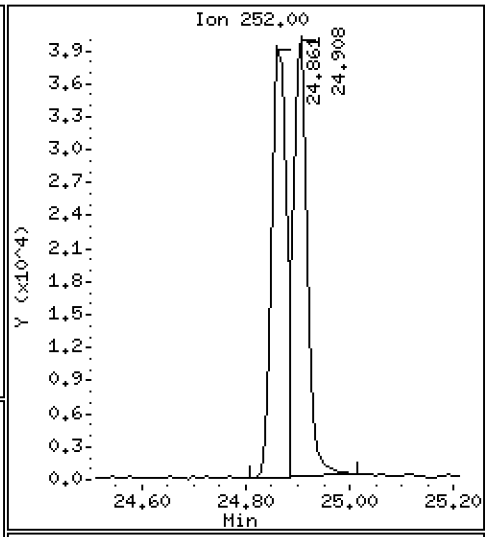
Concentration: 0.4805 ug/mL

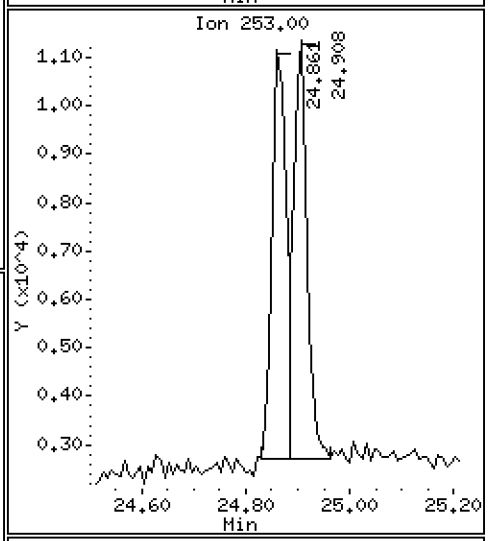


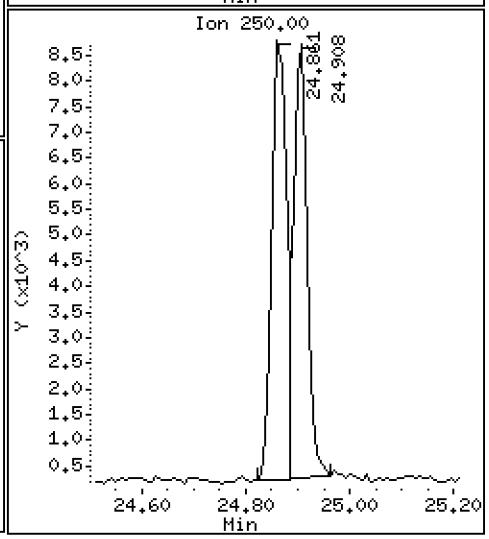












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

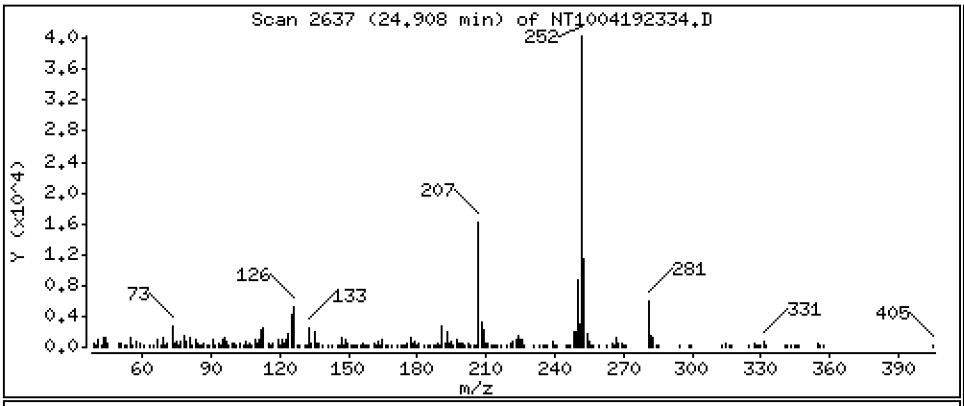
Operator: VTS

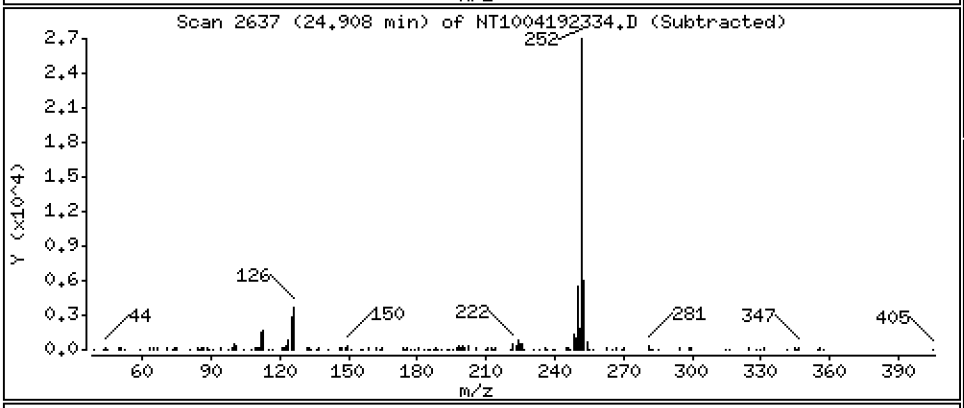
Column phase: ZB-5msi

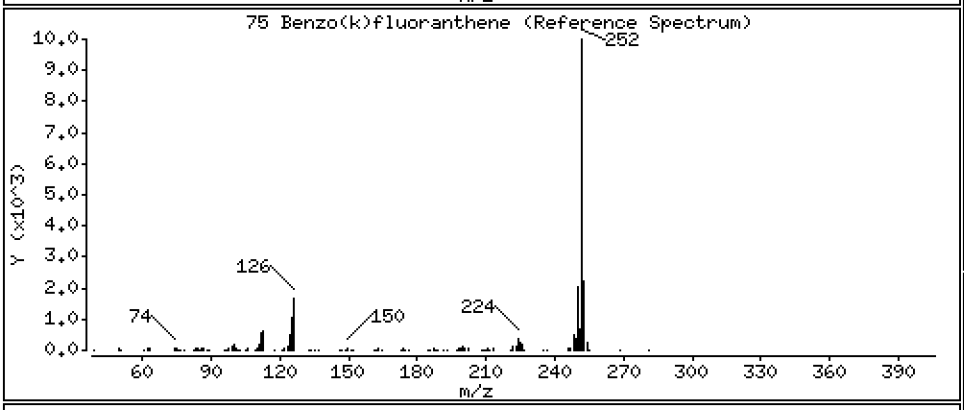
Column diameter: 0.25

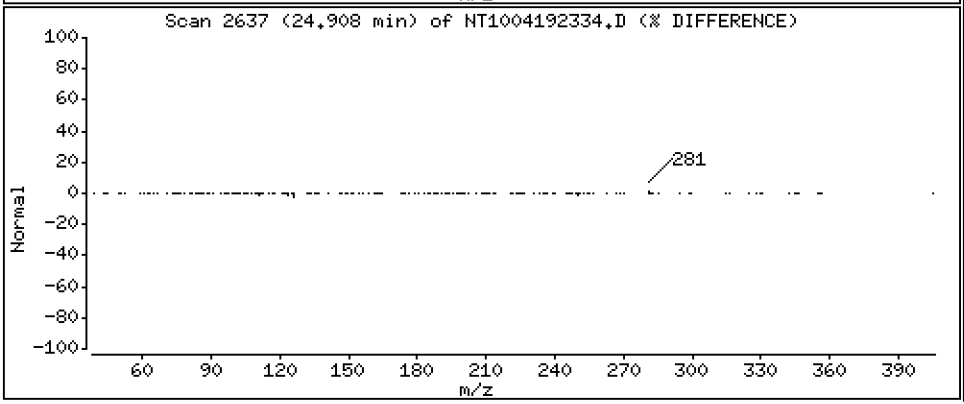
75 Benzo(k)fluoranthene

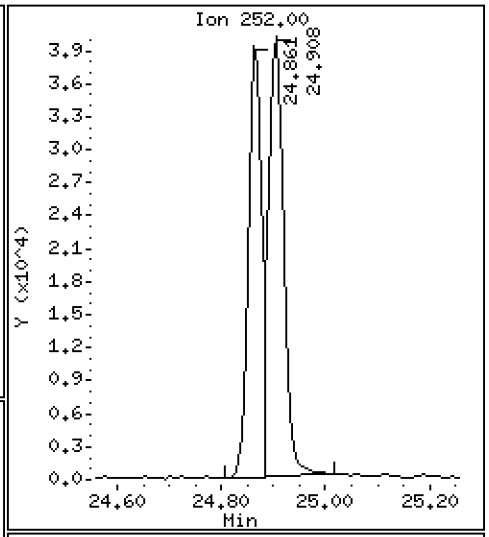
Concentration: 0.5082 ug/mL

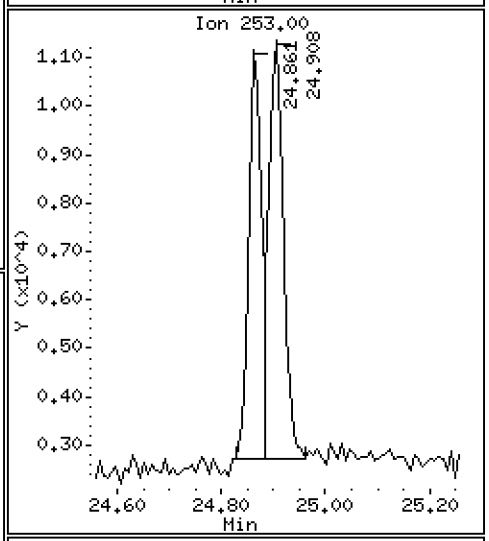


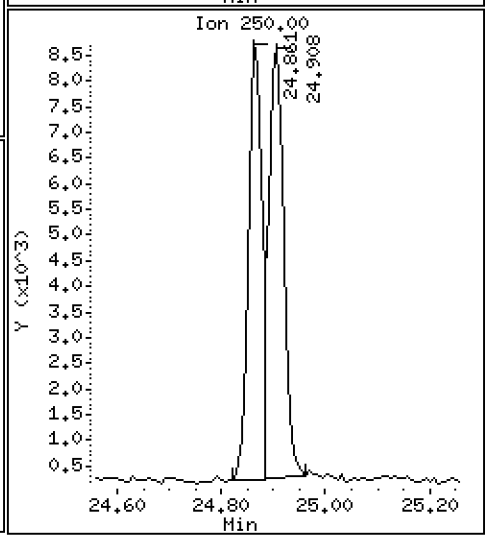












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

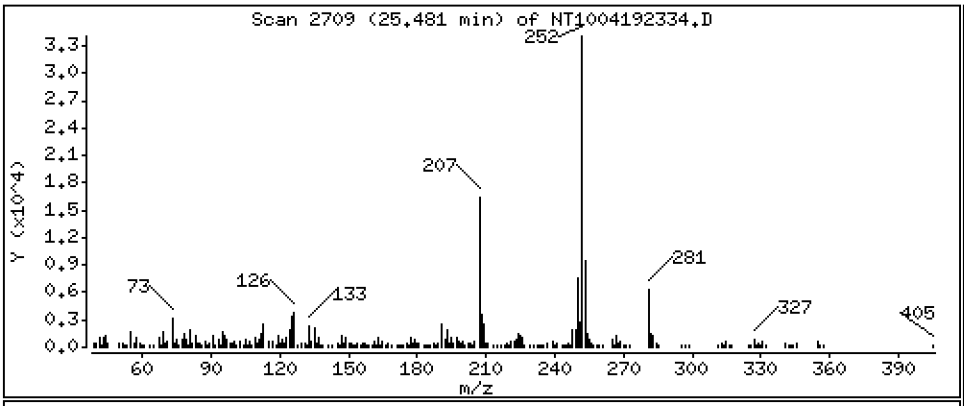
Operator: VTS

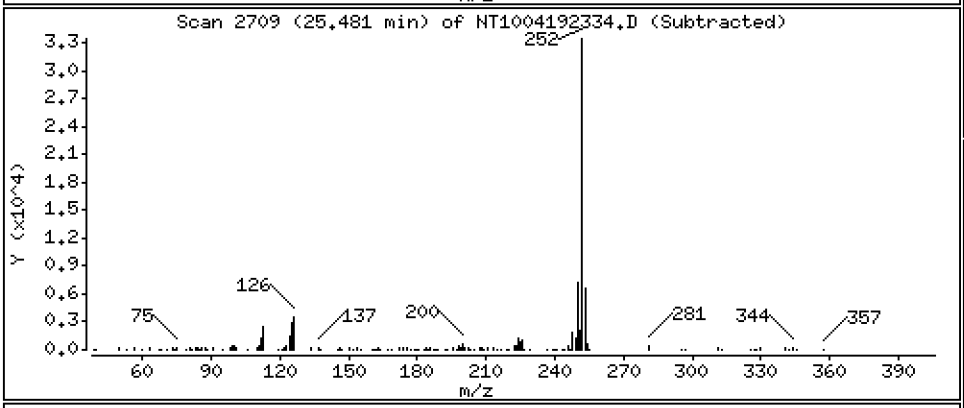
Column phase: ZB-5msi

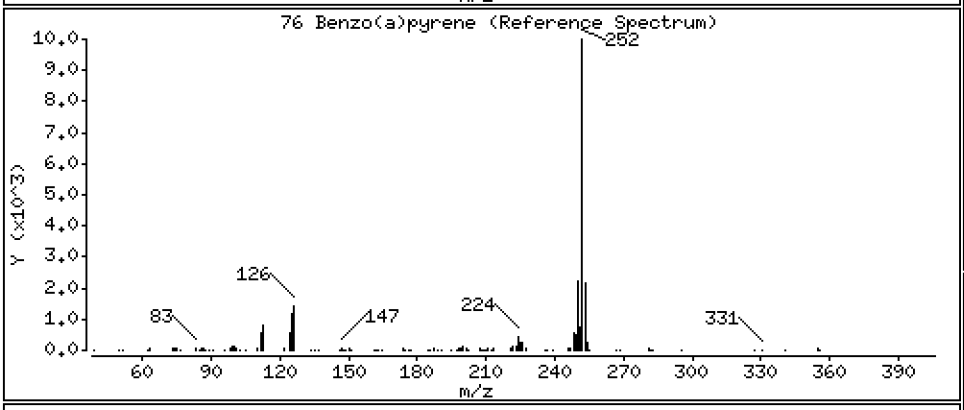
Column diameter: 0.25

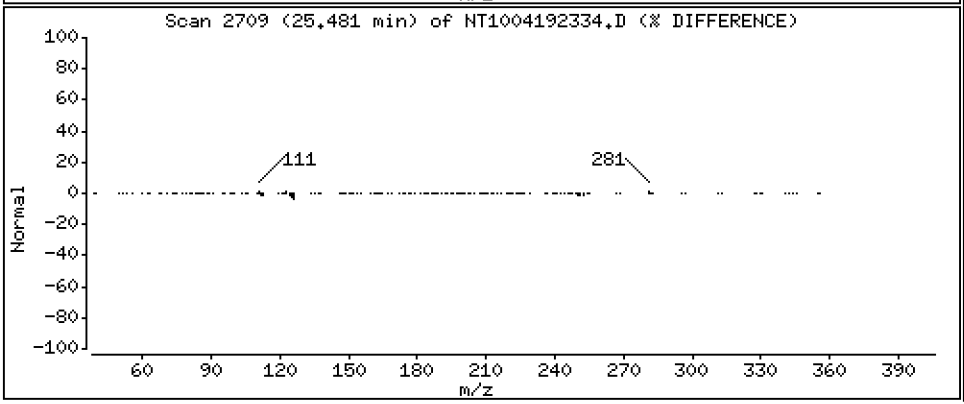
76 Benzo(a)pyrene

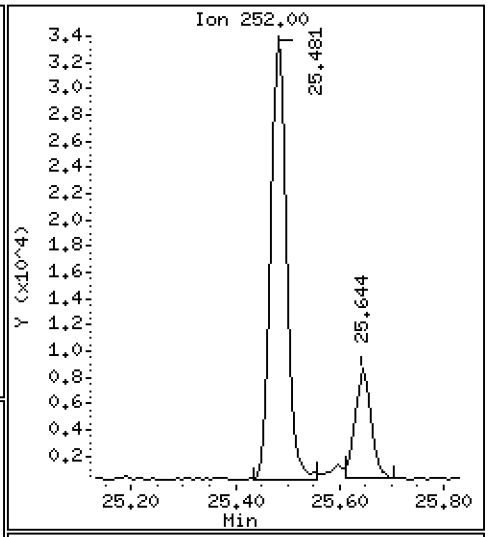
Concentration: 0.4851 ug/mL

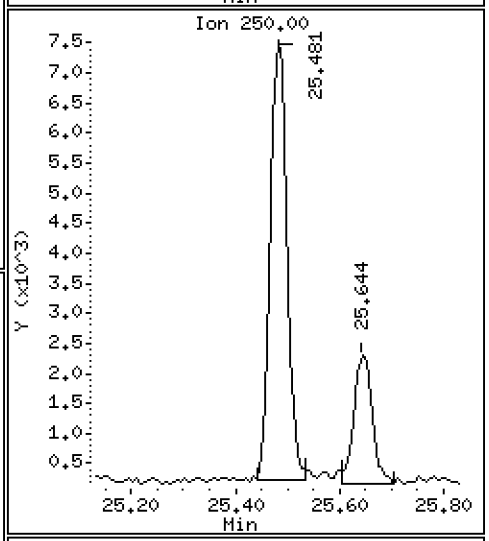


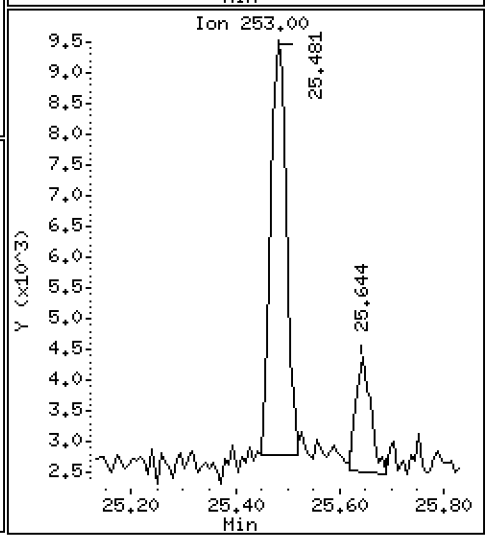












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

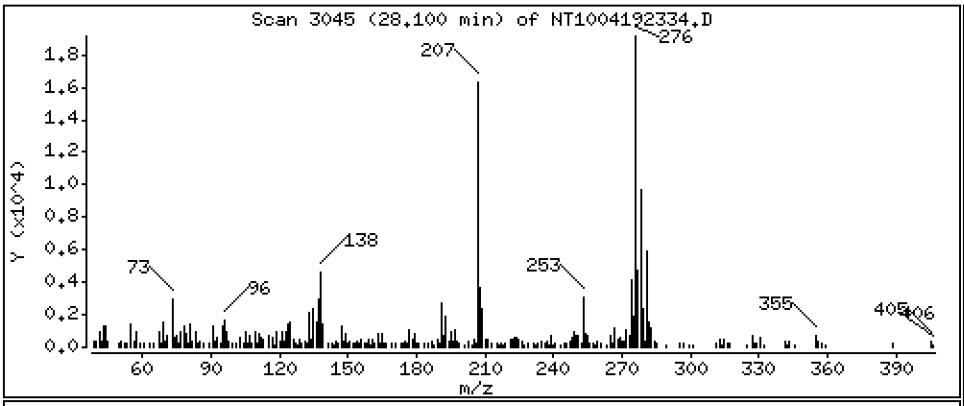
Operator: VTS

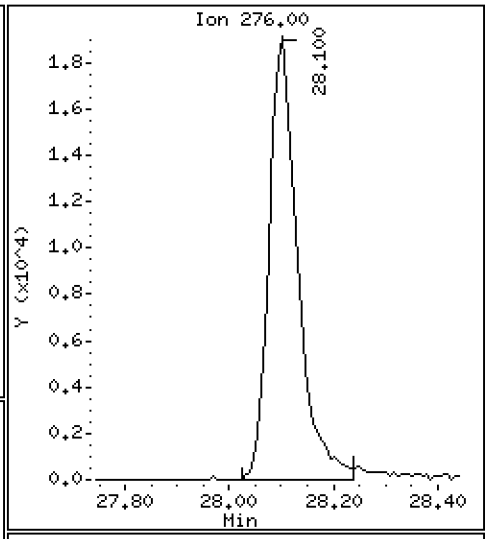
Column phase: ZB-5msi

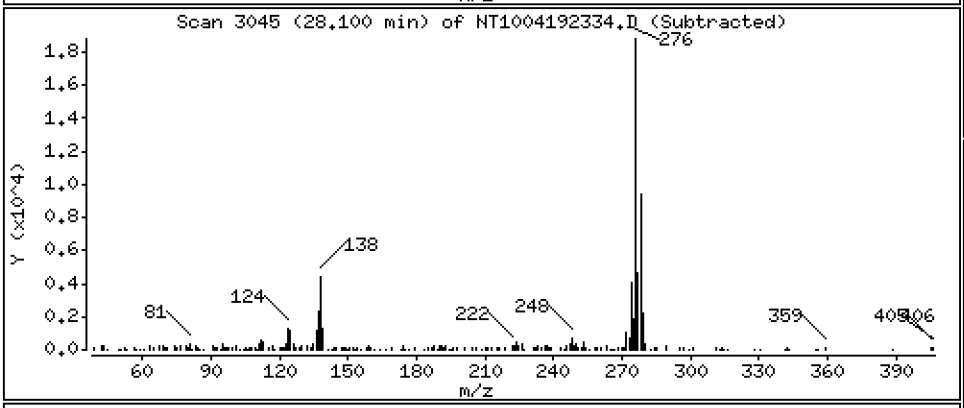
Column diameter: 0.25

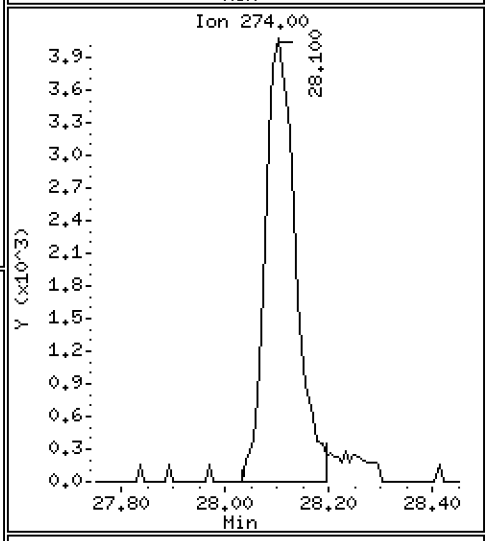
78 Indeno(1,2,3-cd)pyrene

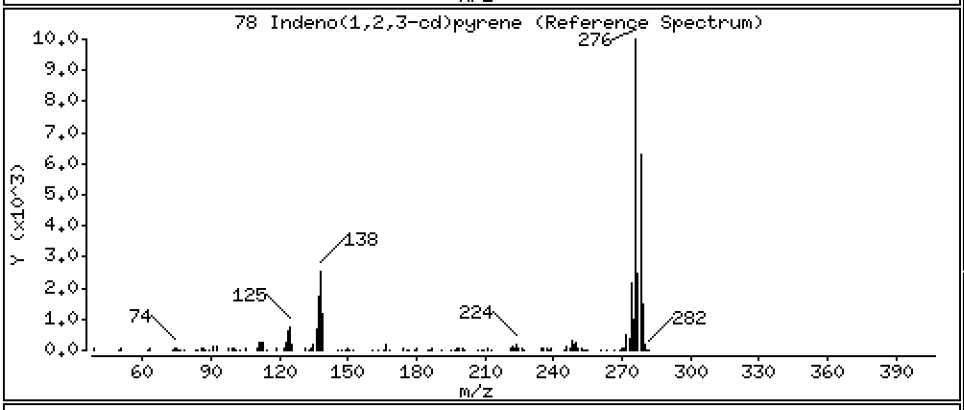
Concentration: 0.4095 ug/mL

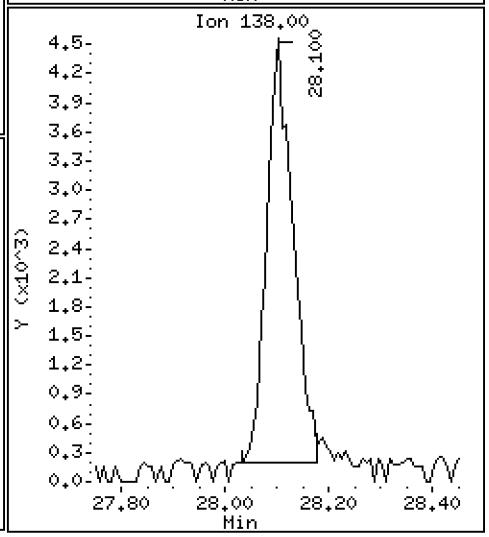


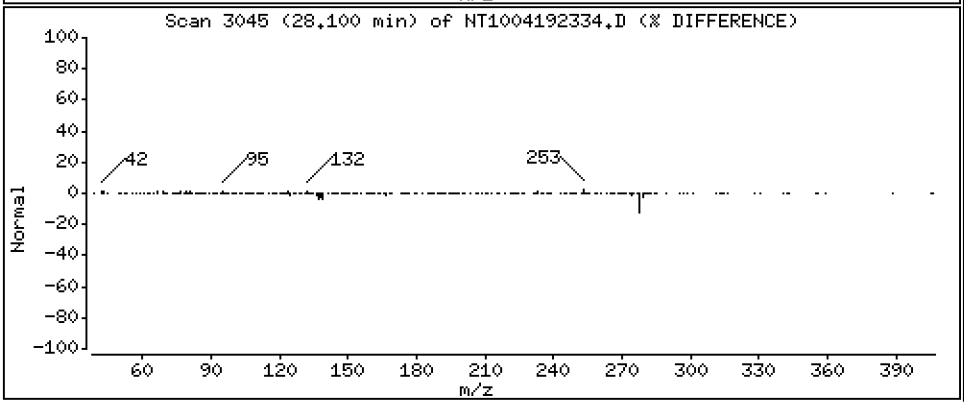












Date : 20-APR-2023 08:19

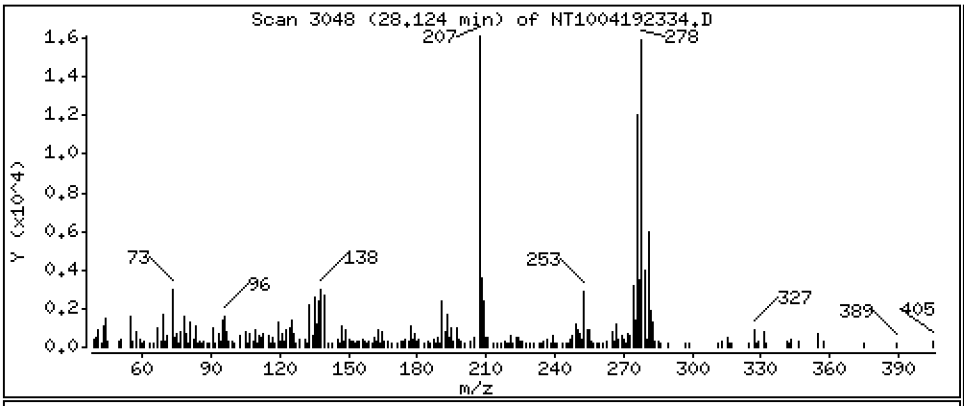
Client ID: Instrument: nt10.i

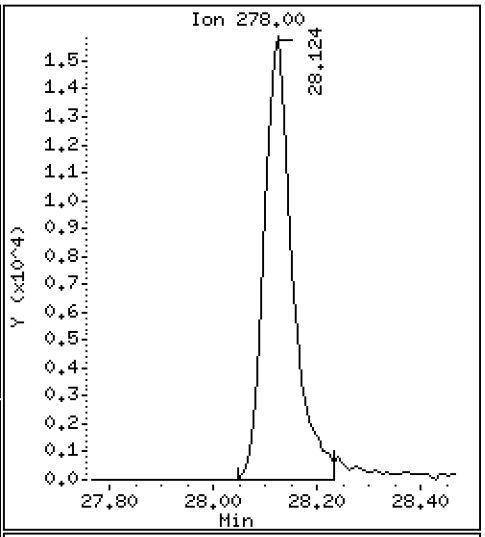
Sample Info: SLD0293-LCV1

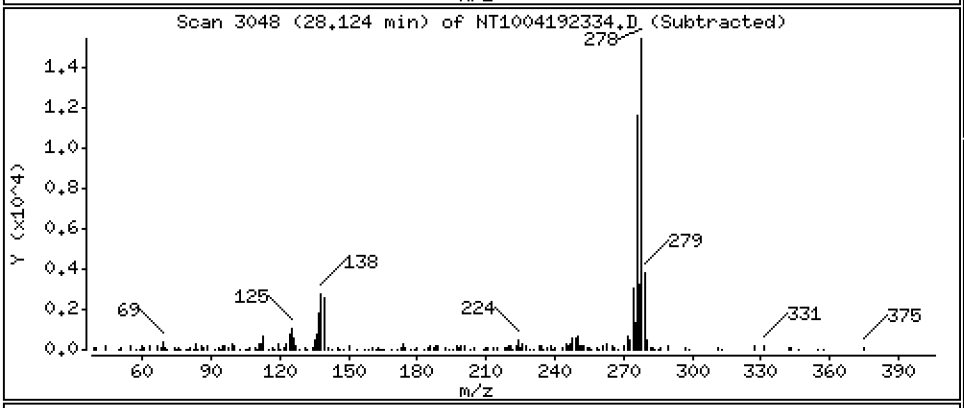
Operator: VTS

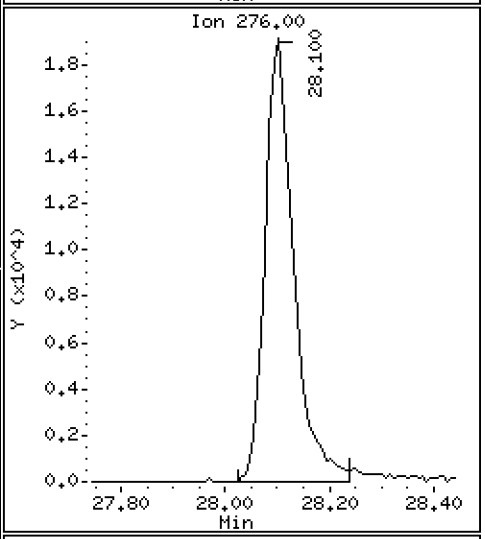
Column phase: ZB-5msi Column diameter: 0.25

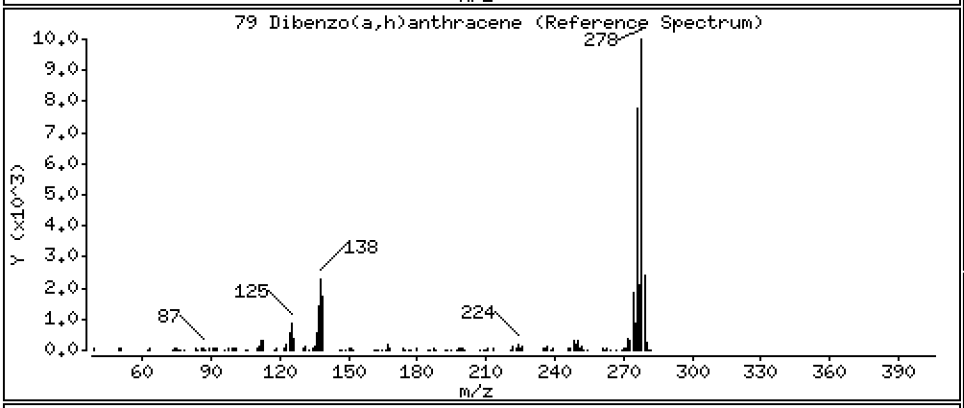
79 Dibenzo(a,h)anthracene Concentration: 0.4039 ug/mL

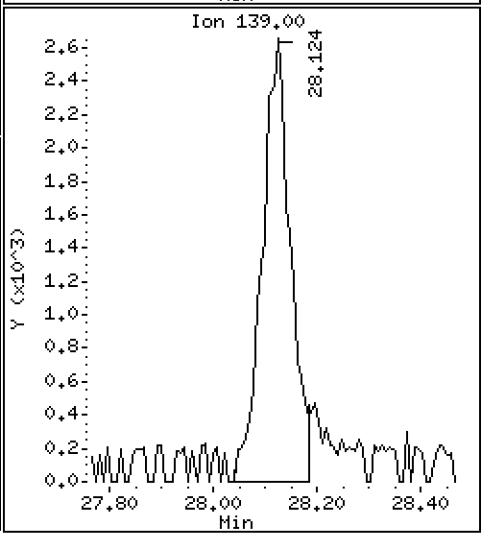


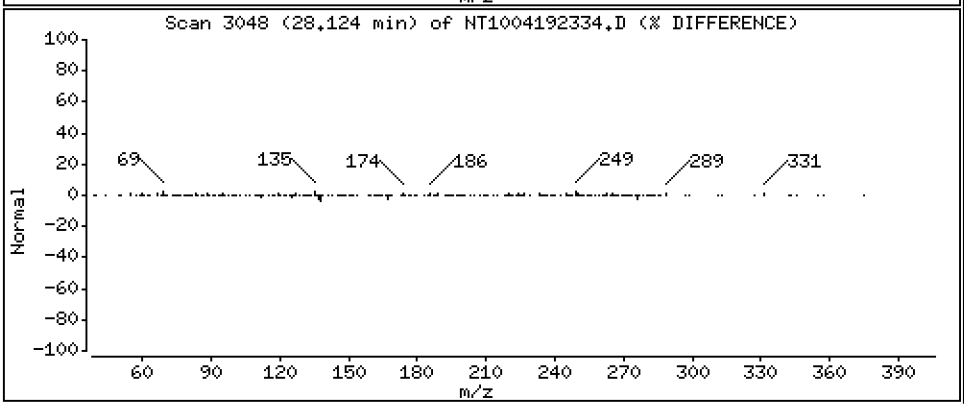












Date : 20-APR-2023 08:19

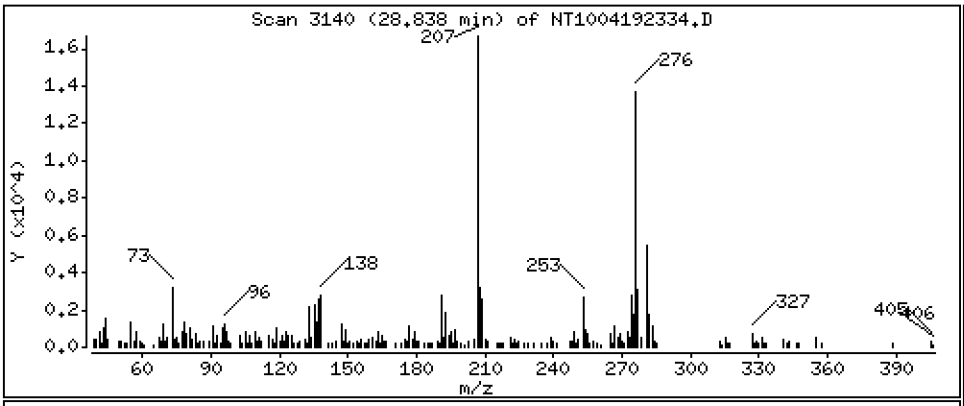
Client ID: Instrument: nt10.i

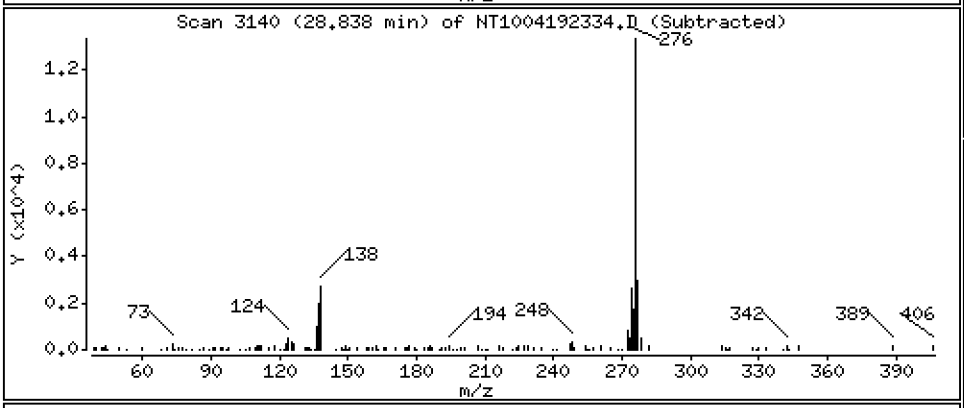
Sample Info: SLD0293-LCV1

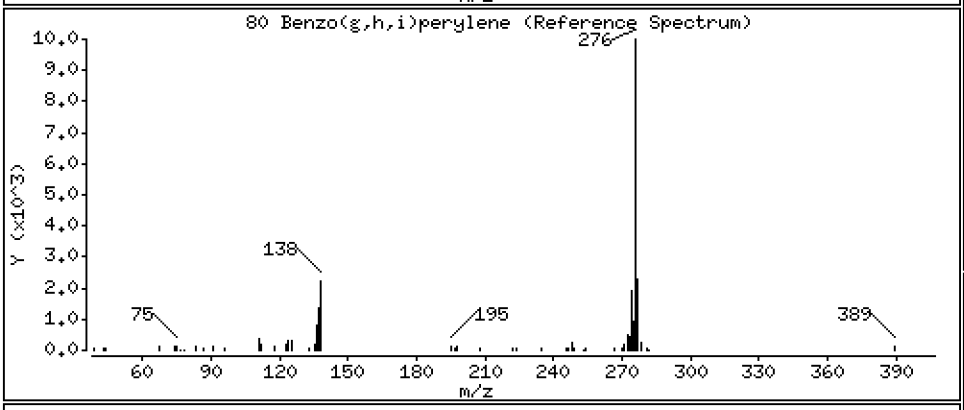
Operator: VTS

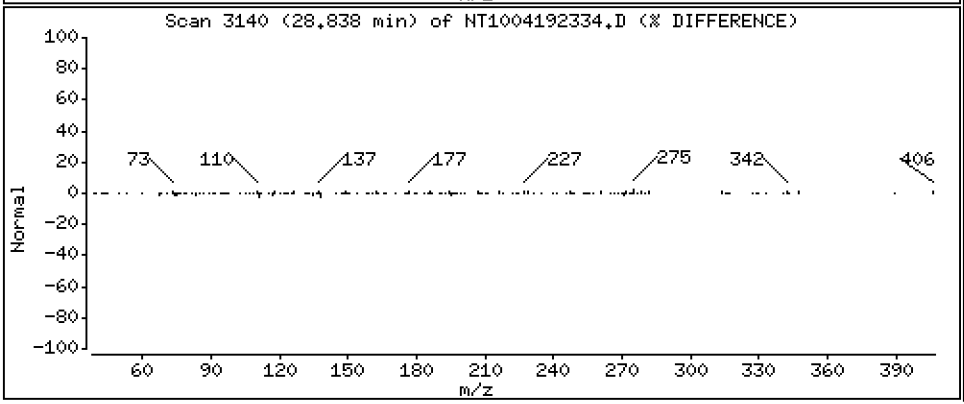
Column phase: ZB-5msi Column diameter: 0.25

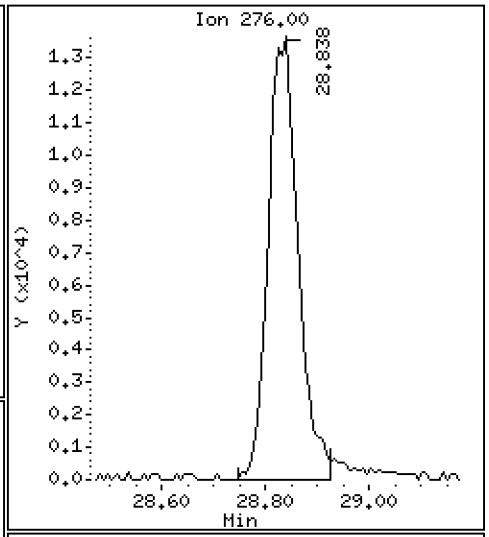
80 Benzo(g,h,i)perylene Concentration: 0.3540 ug/mL

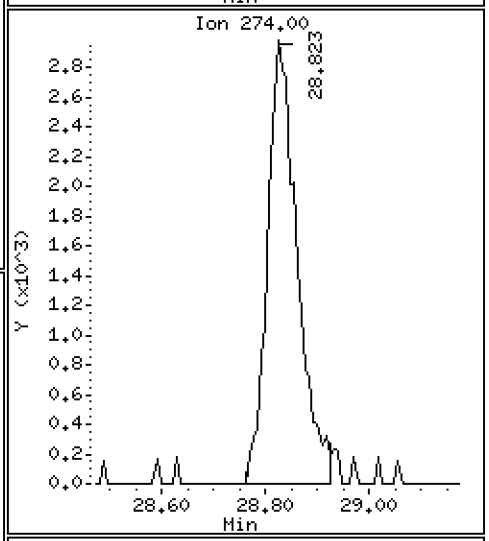


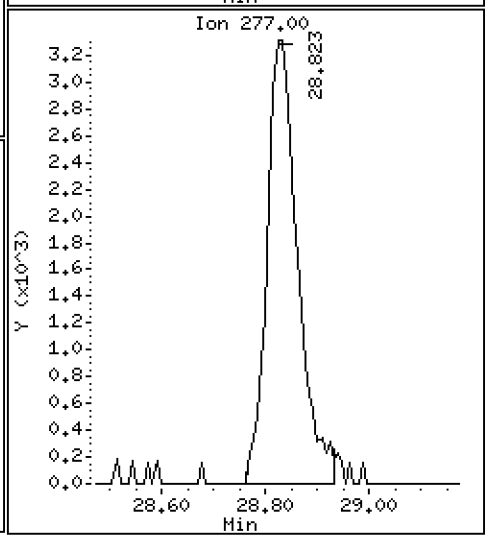












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192334.D

Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

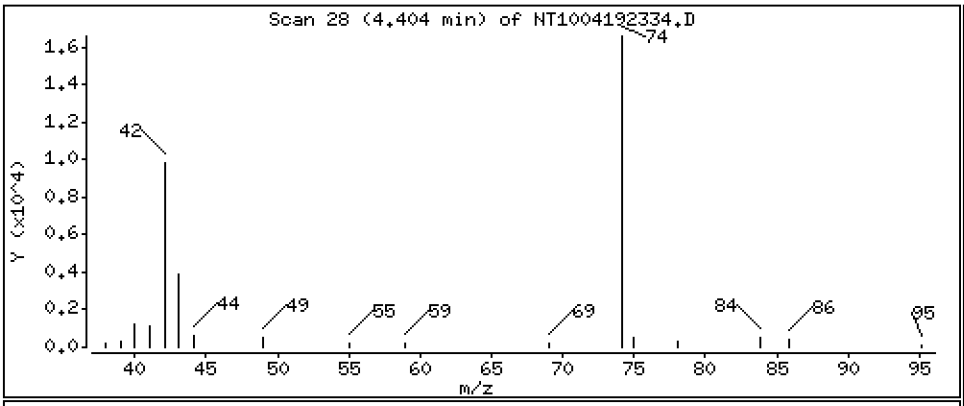
Operator: VTS

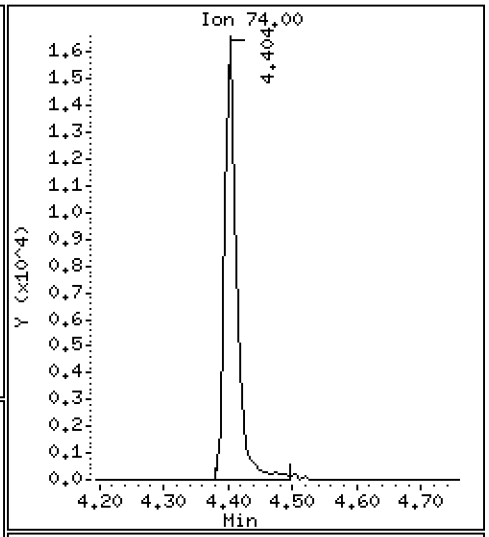
Column phase: ZB-5msi

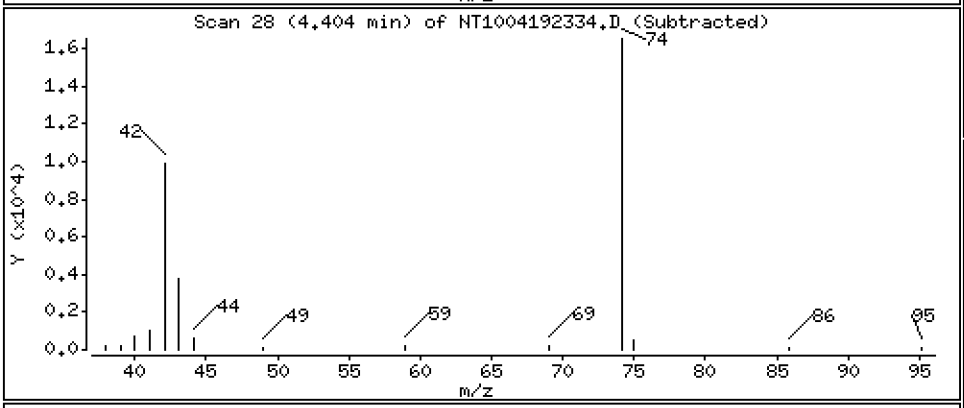
Column diameter: 0.25

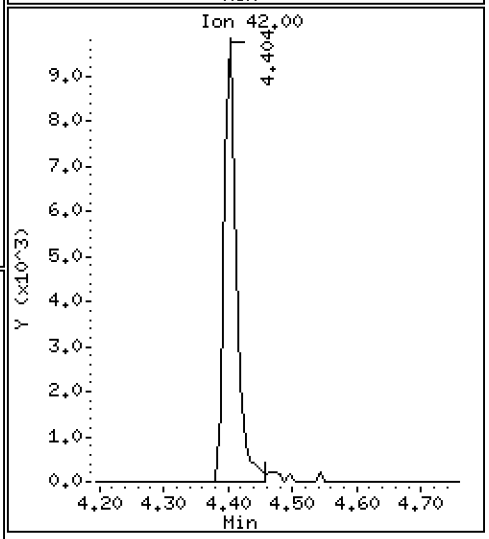
90 N-Nitrosodimethylamine

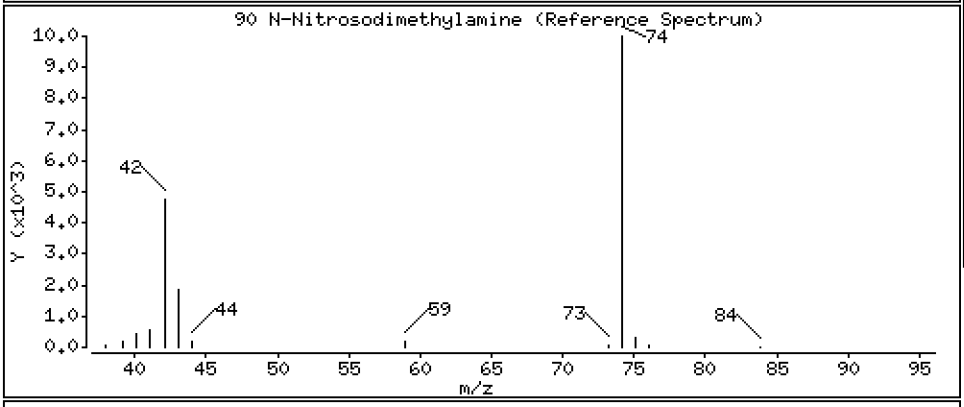
Concentration: 0.8560 ug/mL

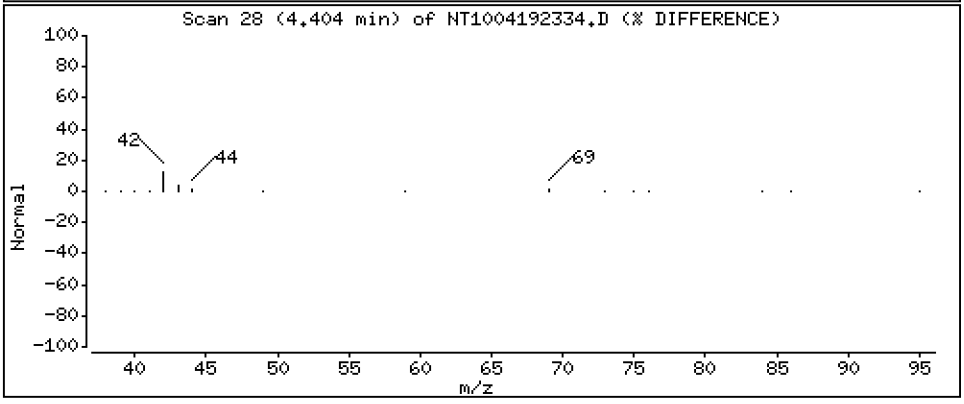












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

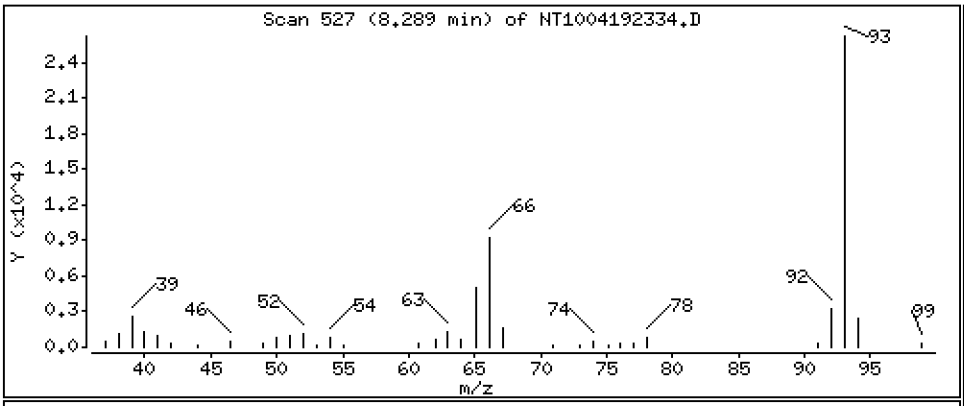
Operator: VTS

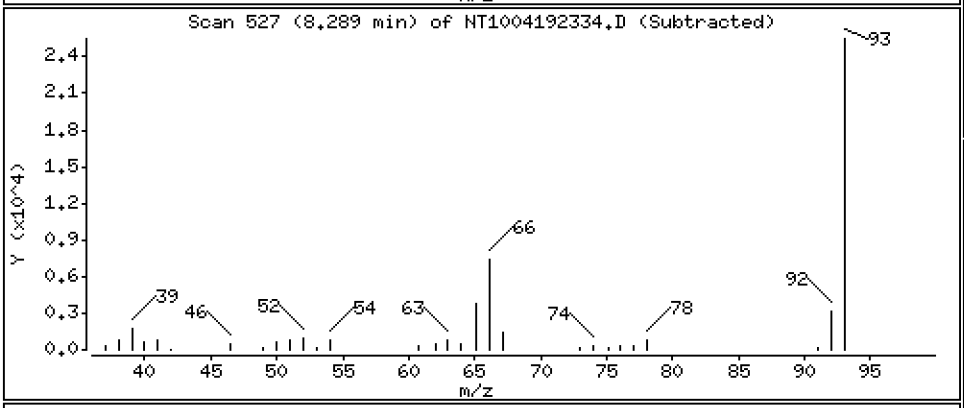
Column phase: ZB-5msi

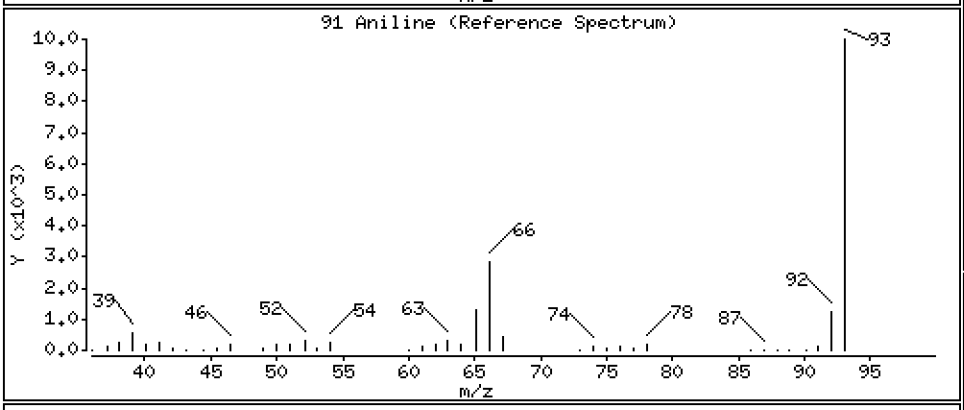
Column diameter: 0.25

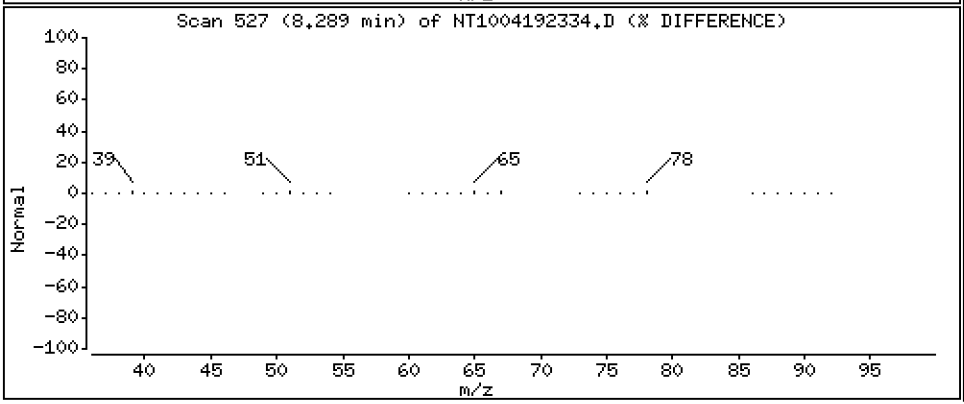
91 Aniline

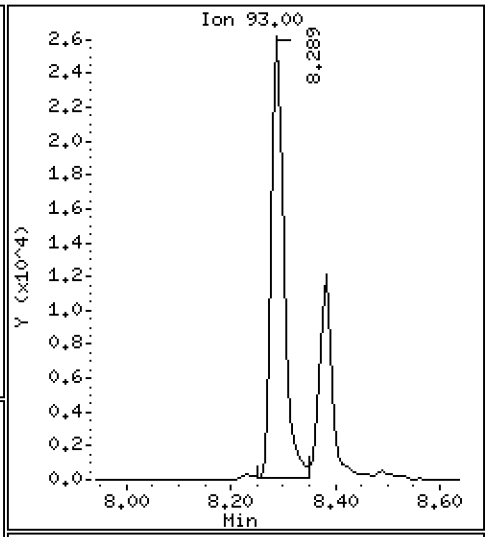
Concentration: 0.7386 ug/mL

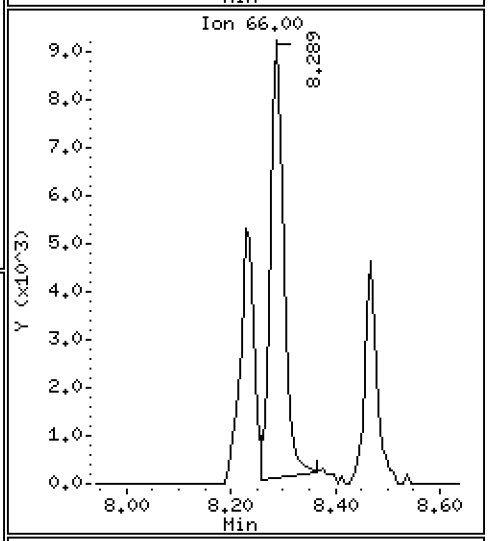


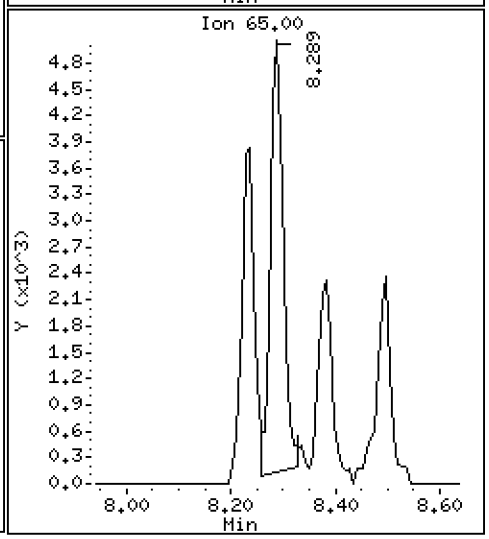












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192334.D

Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

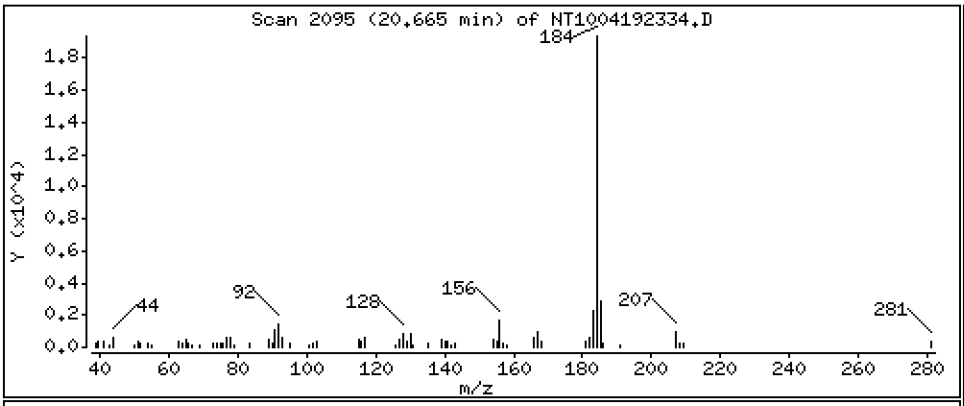
Operator: VTS

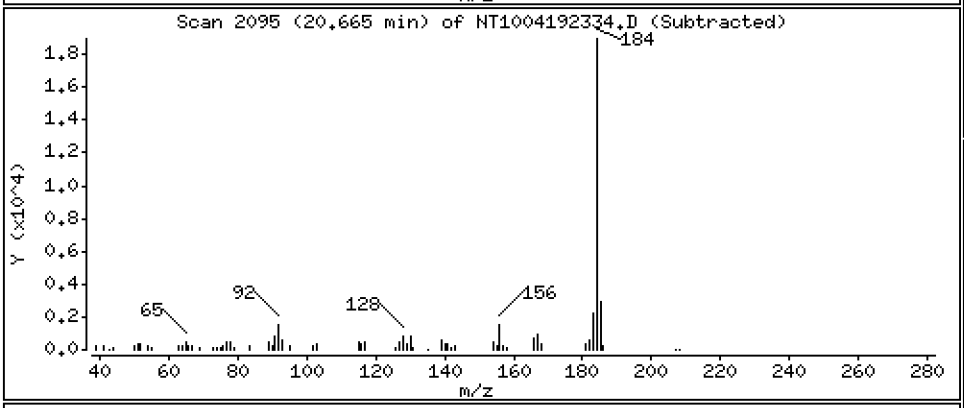
Column phase: ZB-5msi

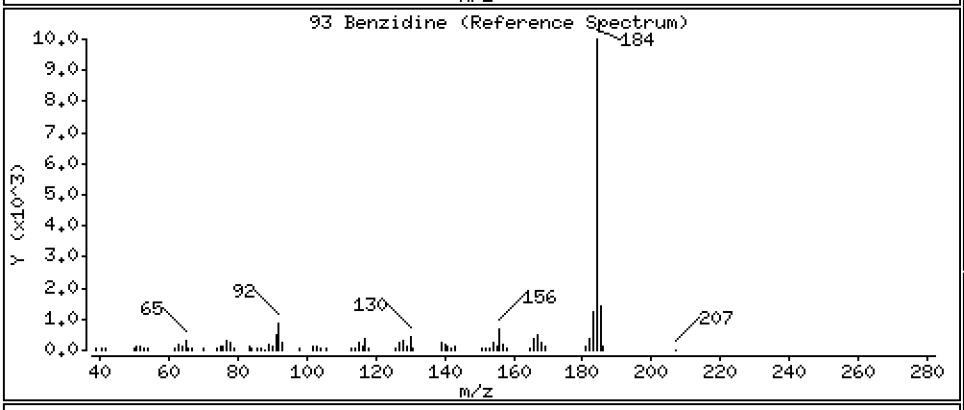
Column diameter: 0.25

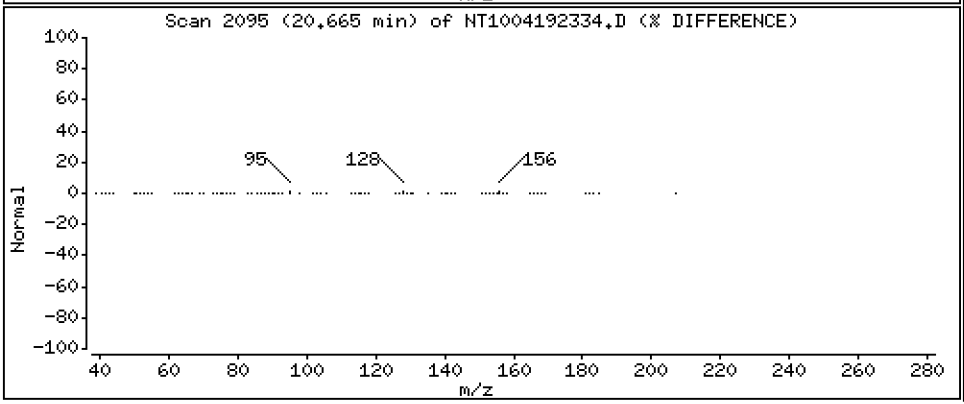
93 Benzidine

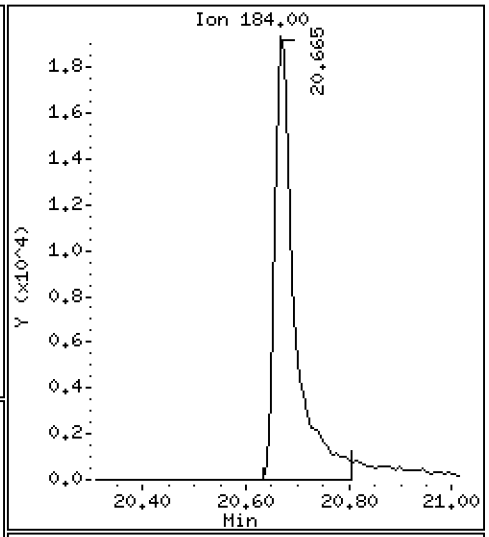
Concentration: 0.7135 ug/mL

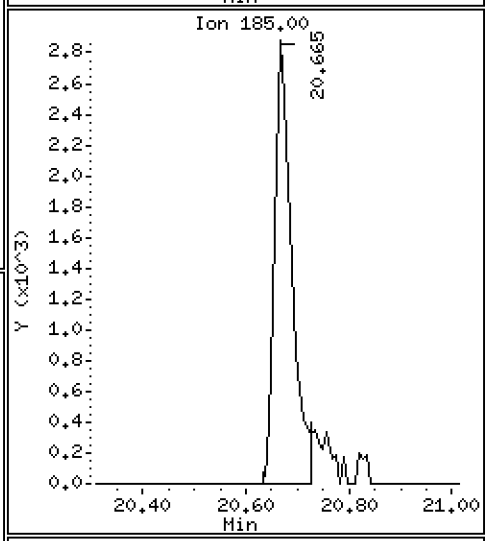


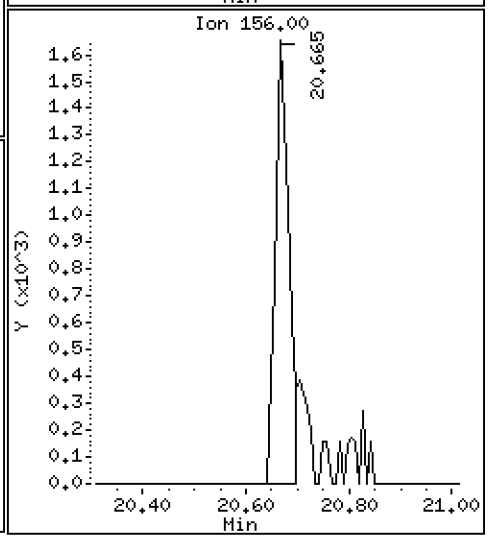












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192334.D

Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

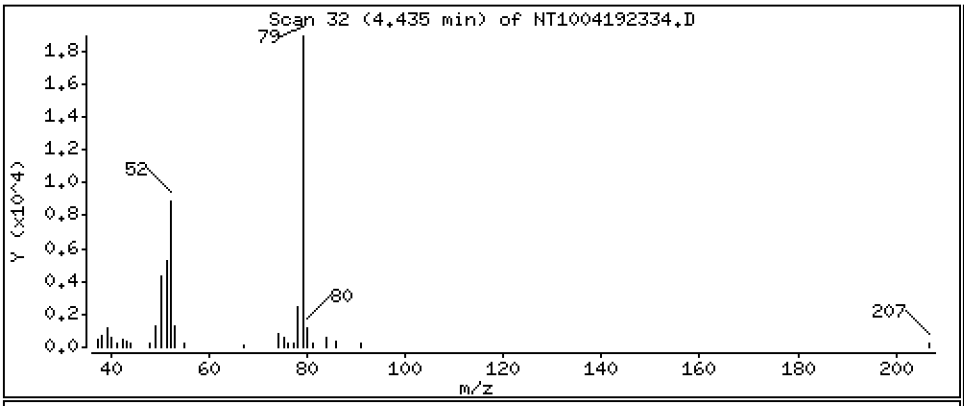
Operator: VTS

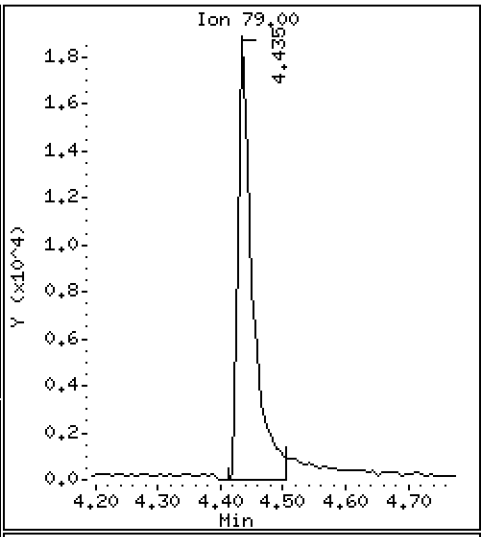
Column phase: ZB-5msi

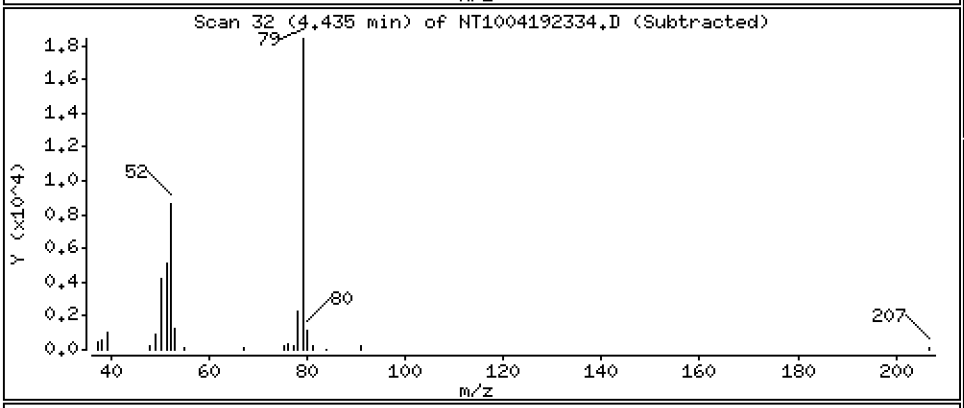
Column diameter: 0.25

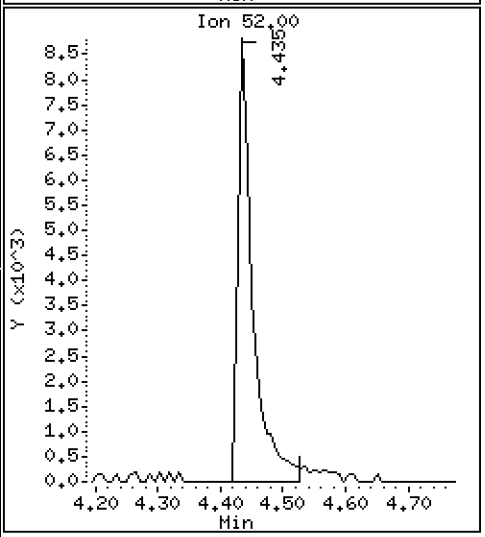
103 Pyridine

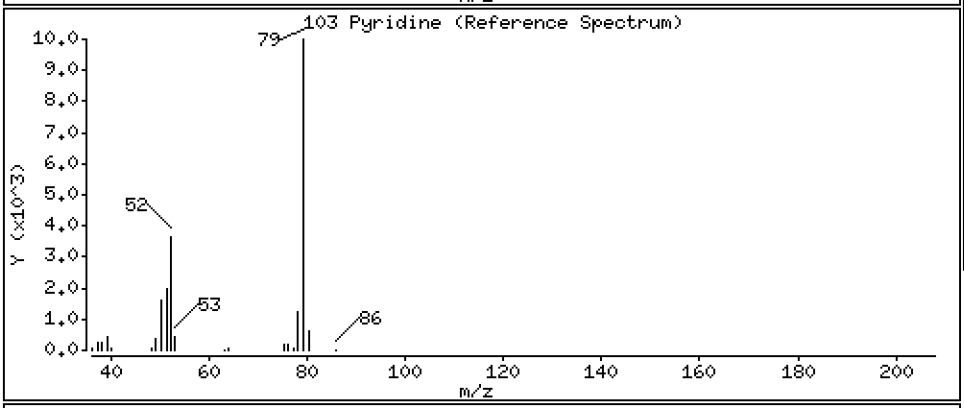
Concentration: 0.7840 ug/mL

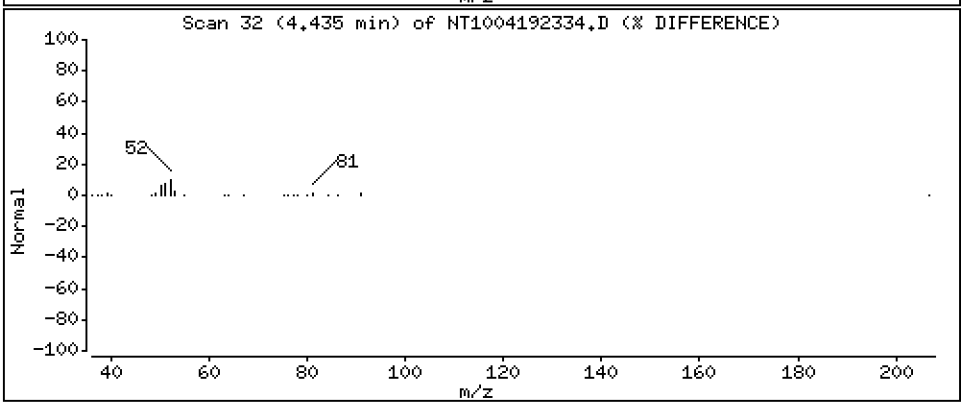












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192334.D

Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

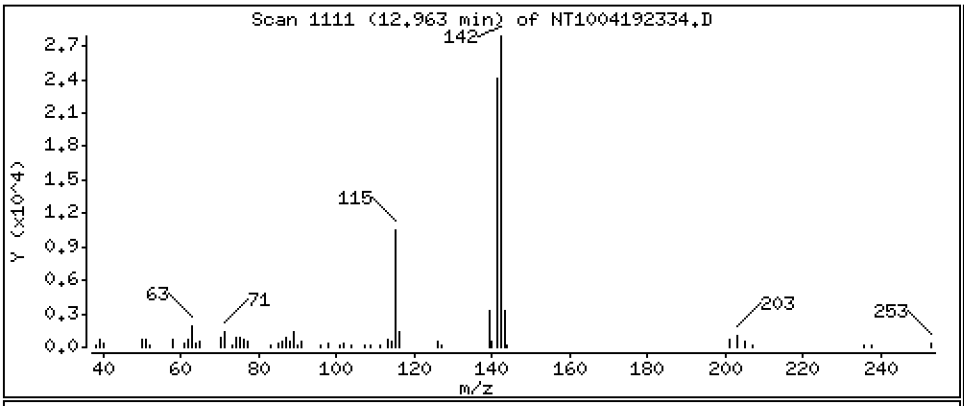
Operator: VTS

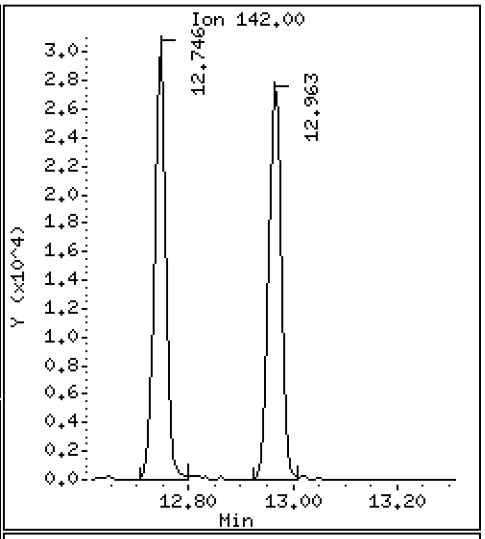
Column phase: ZB-5msi

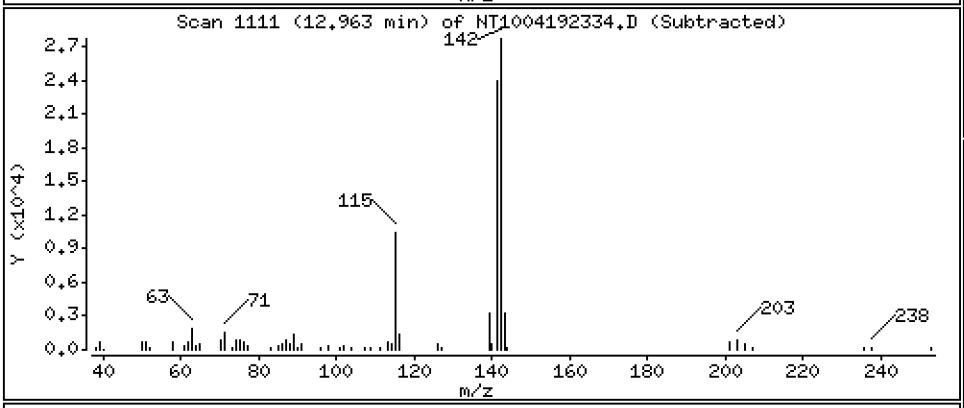
Column diameter: 0.25

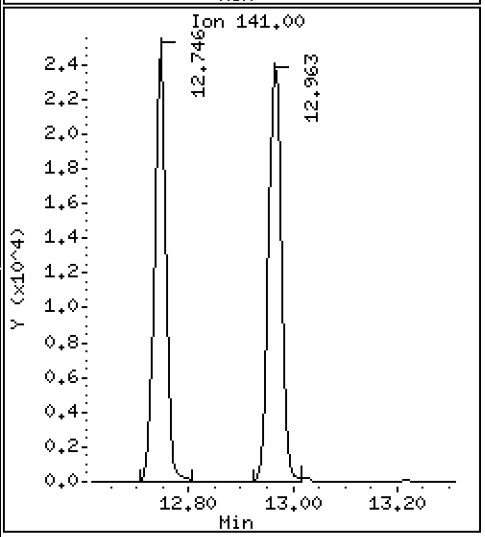
105 1-methylnaphthalene

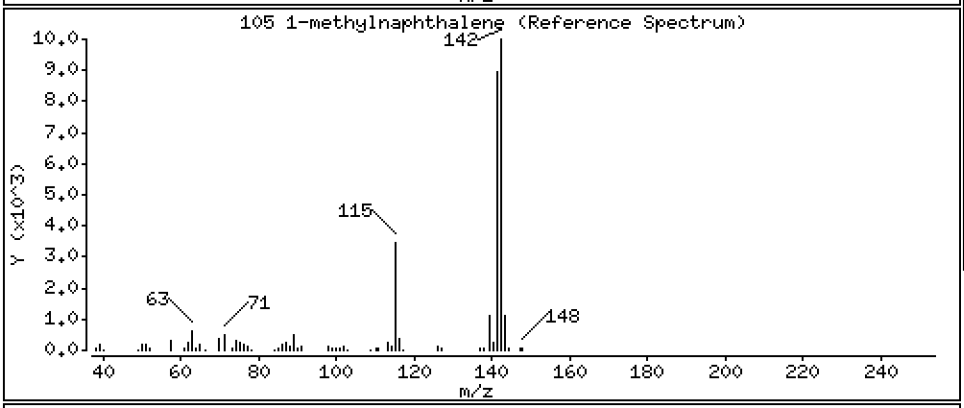
Concentration: 0.5397 ug/mL

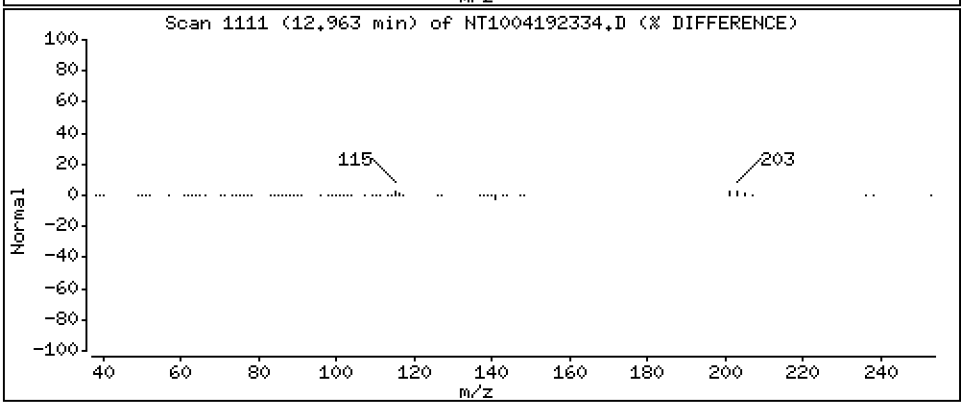












Date : 20-APR-2023 08:19

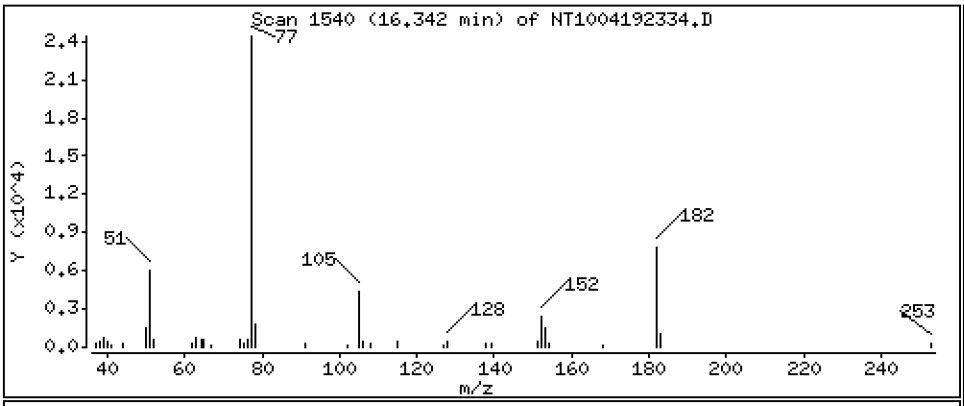
Client ID: Instrument: nt10.i

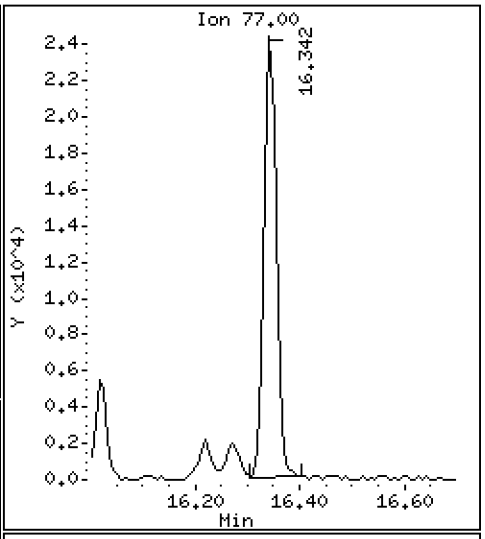
Sample Info: SLD0293-LCV1

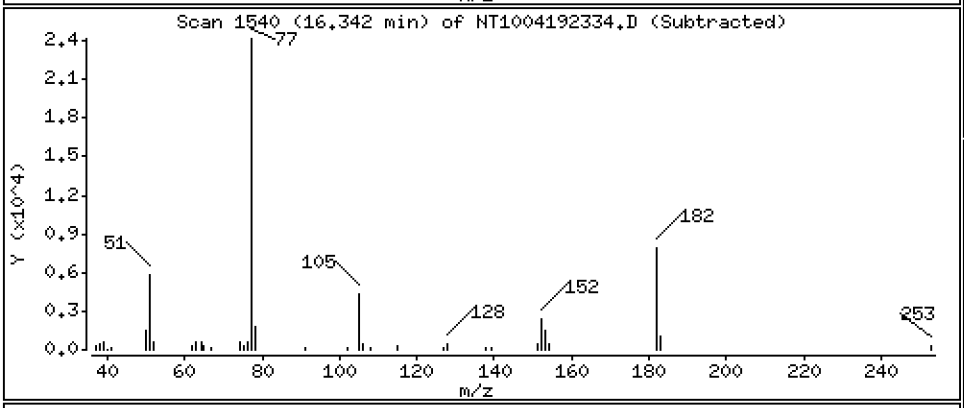
Operator: VTS

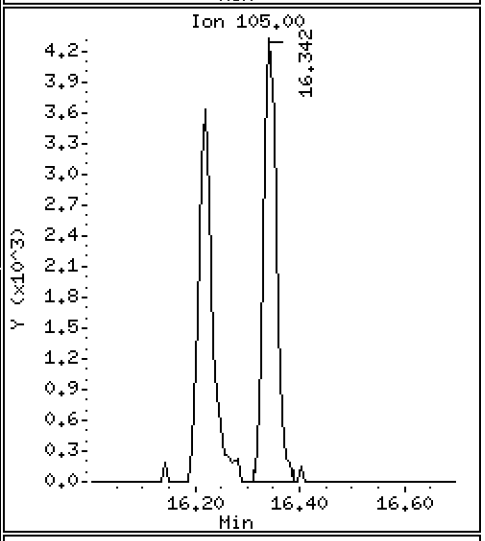
Column phase: ZB-5msi Column diameter: 0.25

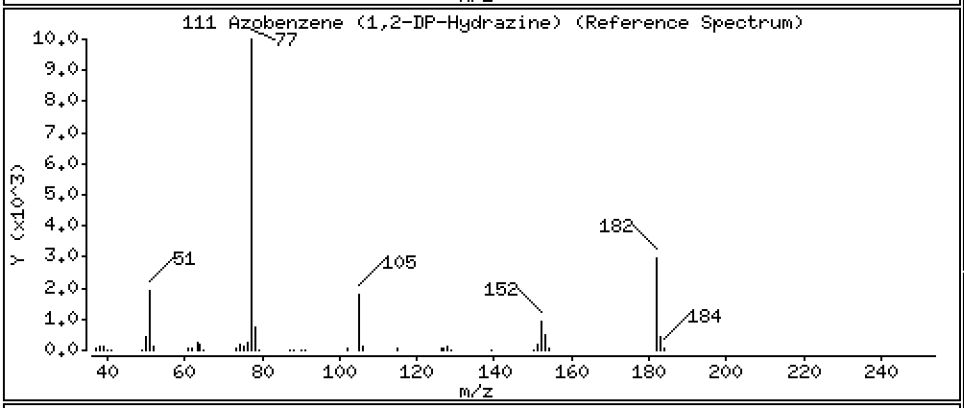
111 Azobenzene (1,2-DP-Hydrazine) Concentration: 0.3889 ug/mL

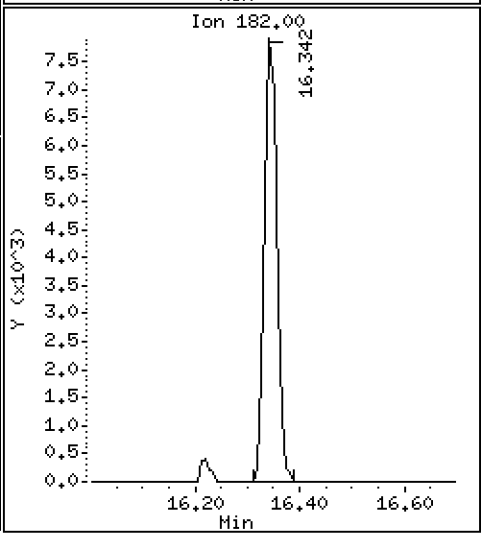


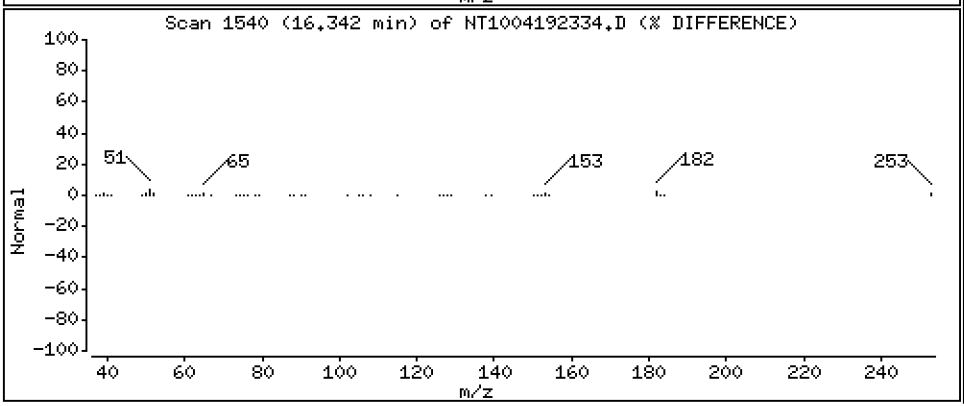












Data File: \\target\share\chem3\nt10.i\20230419B.b\NT1004192334.D

Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

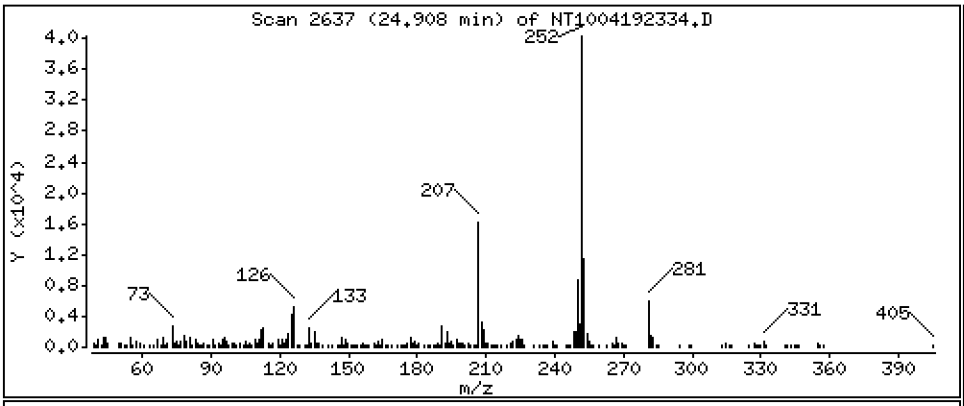
Operator: VTS

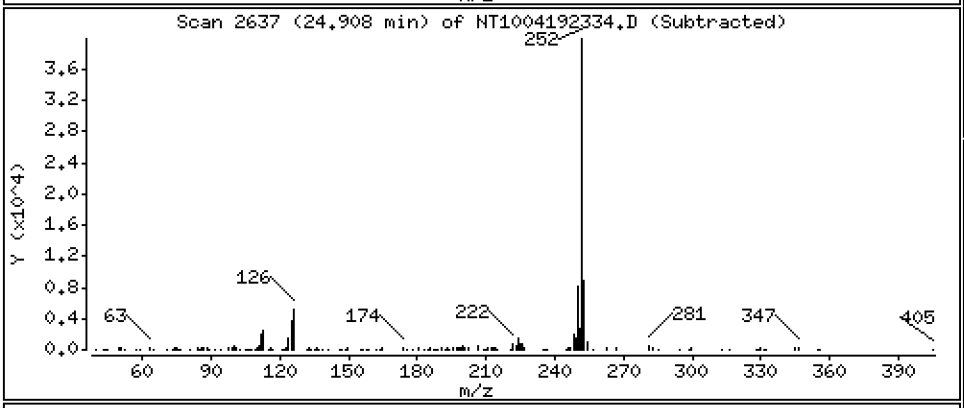
Column phase: ZB-5msi

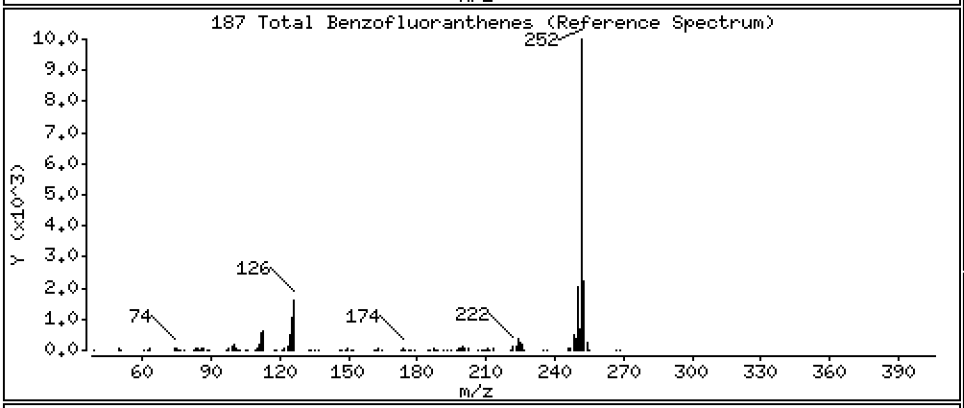
Column diameter: 0.25

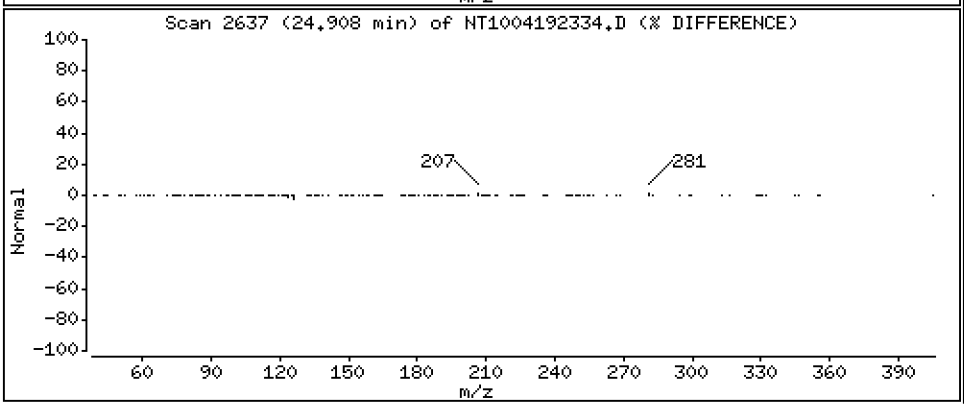
187 Total Benzofluoranthenes

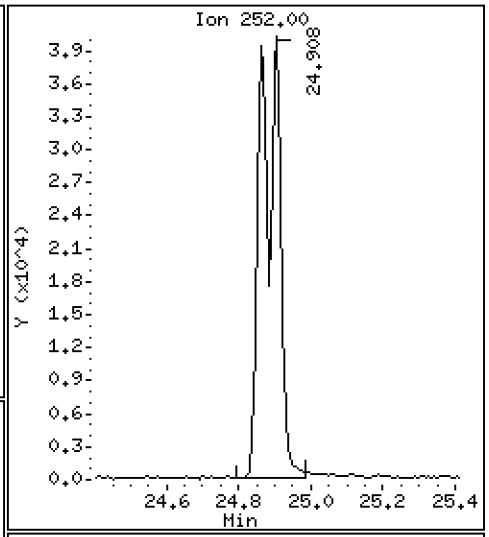
Concentration: 0.9810 ug/mL

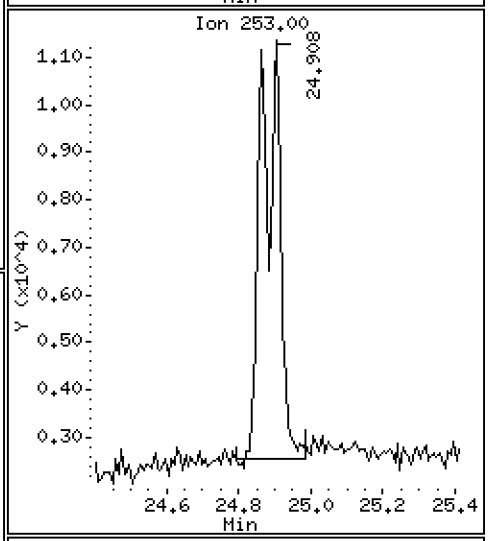


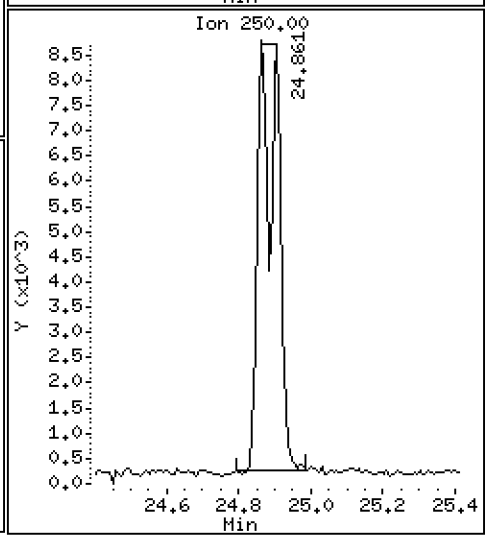












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Date : 20-APR-2023 08:19

Client ID:

Instrument: nt10.i

Sample Info: SLD0293-LCV1

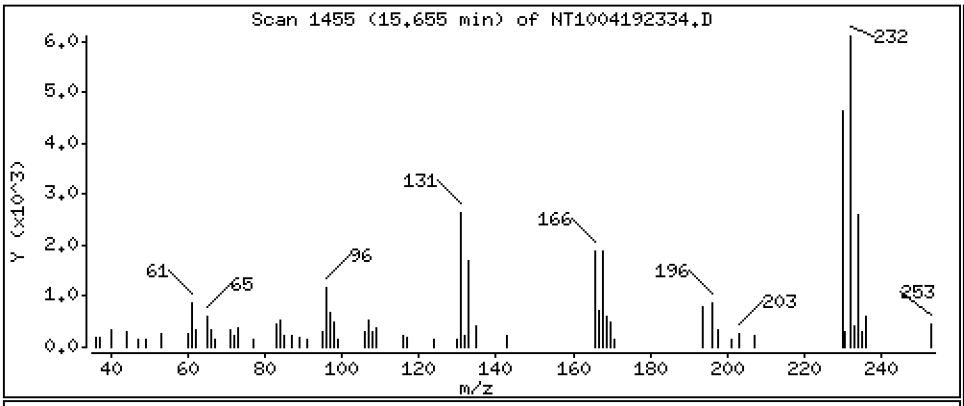
Operator: VTS

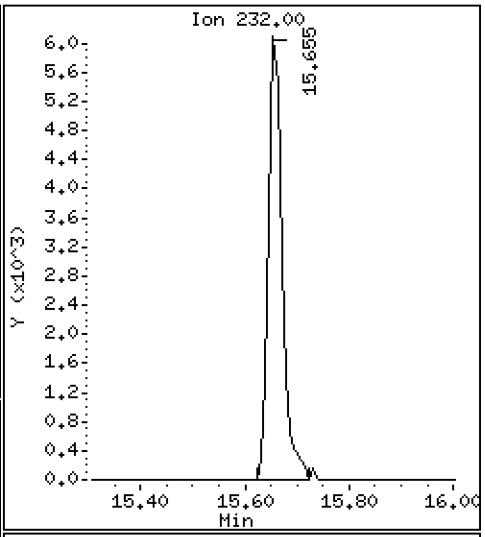
Column phase: ZB-5msi

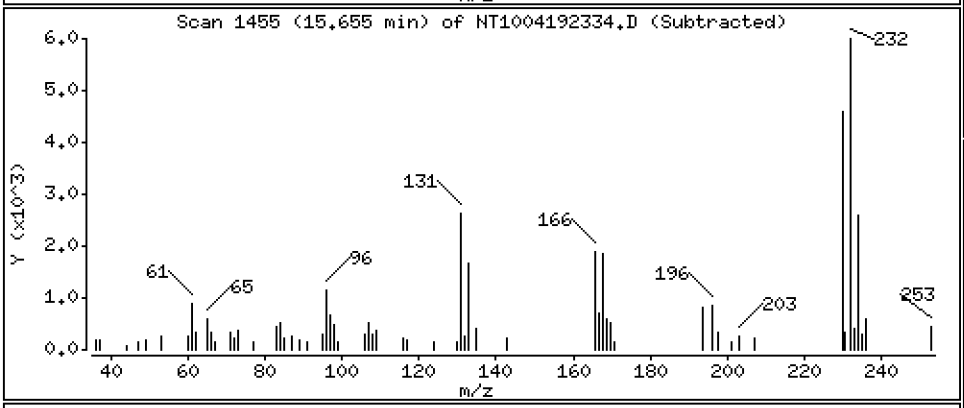
Column diameter: 0.25

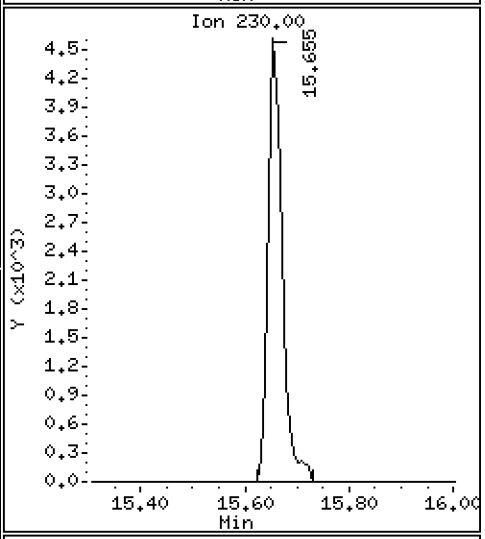
120 2,3,4,6-Tetrachlorophenol

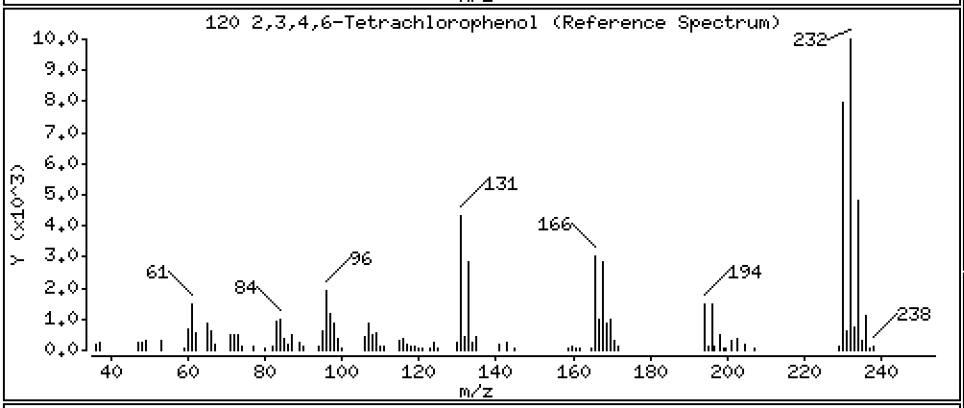
Concentration: 0.3924 ug/mL

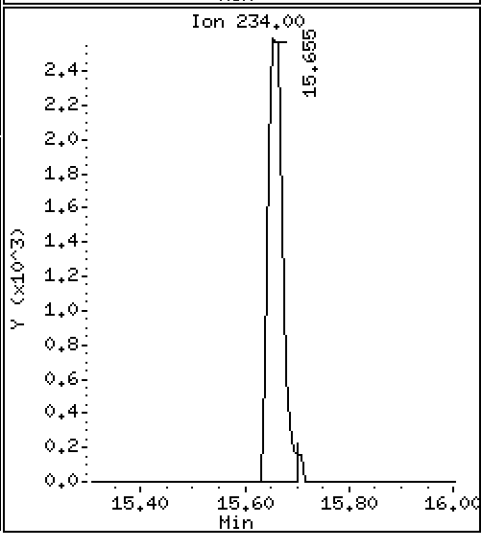


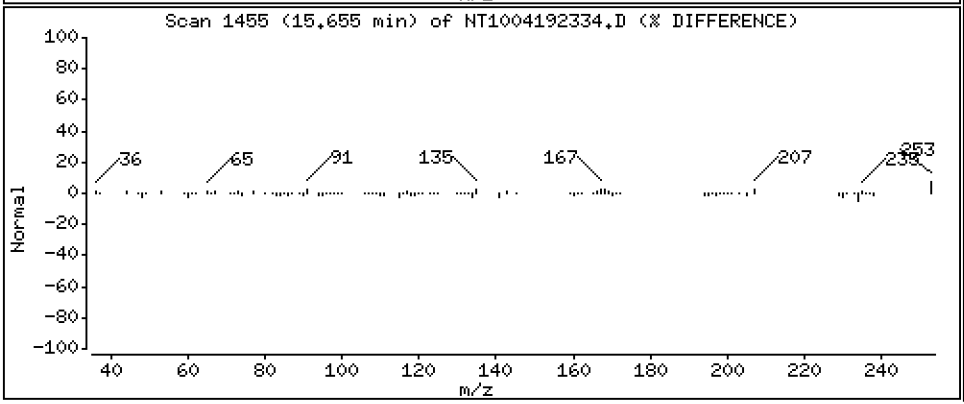












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230419B.b\NT1004192334.D
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Inj Date : 20-APR-2023 08:19
Operator : VTS Inst ID: nt10.i
Smp Info : SLD0293-LCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Meth Date : 21-Apr-2023 11:54 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.604	6.612	(0.749)	27094	0.67075	0.6708
$	2 Phenol-d5	99	8.211	8.219	(0.931)	31543	0.59526	0.5953
	3 Phenol	94	8.235	8.235	(0.933)	22732	0.41282	0.4128
$	5 2-Chlorophenol-d4	132	8.466	8.474	(0.960)	30598	0.67620	0.6762
	4 Bis(2-Chloroethyl)ether	93	8.381	8.389	(0.950)	19222	0.47066	0.4707
	6 2-Chlorophenol	128	8.490	8.497	(0.962)	21317	0.45232	0.4523
	7 1,3-Dichlorobenzene	146	8.760	8.761	(0.993)	24909	0.49994	0.4999
*	8 1,4-Dichlorobenzene-d4	152	8.823	8.830	(1.000)	133571	4.00000	
	9 1,4-Dichlorobenzene	146	8.854	8.861	(1.004)	23526	0.48879	0.4888
$	10 1,2-Dichlorobenzene-d4	152	9.187	9.187	(1.041)	14383	0.44260	0.4426
	12 1,2-Dichlorobenzene	146	9.211	9.211	(1.044)	22891	0.48326	0.4833
	11 Benzyl alcohol	108	9.110	9.110	(1.033)	11418	0.44177	0.4418(H)
	14 2,2'-oxybis(1-Chloropropane)	121	9.405	9.413	(1.066)	7275	0.52298	0.5230(M)
	13 2-Methylphenol	108	9.343	9.343	(1.059)	18260	0.45490	0.4549
	17 Hexachloroethane	117	9.800	9.801	(1.111)	8044	0.40734	0.4073
	16 N-Nitroso-di-n-propylamine	70	9.661	9.669	(1.095)	13441	0.42407	0.4241
	15 4-Methylphenol	108	9.622	9.622	(1.091)	18948	0.44800	0.4480
$	18 Nitrobenzene-d5	82	9.925	9.925	(0.878)	19787	0.41871	0.4187
	19 Nitrobenzene	77	9.956	9.964	(0.881)	19900	0.42909	0.4291
	20 Isophorone	82	10.406	10.414	(0.920)	26204	0.44168	0.4417
	21 2-Nitrophenol	139	10.592	10.592	(0.937)	9608	0.42594	0.4259
	22 2,4-Dimethylphenol	107	10.659	10.660	(0.943)	40645	0.95417	0.9542
	23 Bis(2-Chloroethoxy)methane	93	10.846	10.846	(0.959)	18256	0.46066	0.4607
	24 Benzoic acid	105	10.787	10.897	(0.954)	21082	0.88978	0.8898
	25 2,4-Dichlorophenol	162	11.050	11.050	(0.977)	32803	0.96230	0.9623
	26 1,2,4-Trichlorobenzene	180	11.222	11.230	(0.992)	21585	0.53944	0.5394
*	27 Naphthalene-d8	136	11.307	11.307	(1.000)	468190	4.00000	
	28 Naphthalene	128	11.345	11.353	(1.003)	57393	0.46273	0.4627
	29 4-Chloroaniline	127	11.492	11.492	(1.016)	45044	0.93092	0.9309
	30 Hexachlorobutadiene	225	11.716	11.716	(1.036)	13078	0.55779	0.5578
	31 4-Chloro-3-methylphenol	107	12.467	12.467	(1.103)	30529	0.82730	0.8273
	32 2-Methylnaphthalene	142	12.746	12.746	(1.127)	46545	0.52001	0.5200
	33 Hexachlorocyclopentadiene	237	13.210	13.210	(0.886)	1834	0.07330	0.07330

		QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
34	2,4,6-Trichlorophenol	196	13.372	13.373	(0.897)	24185	0.90516	0.9052
35	2,4,5-Trichlorophenol	196	13.458	13.450	(0.902)	22144	0.74588	0.7459
$ 36	2-Fluorobiphenyl	172	13.527	13.527	(0.907)	46605	0.43582	0.4358
37	2-Chloronaphthalene	162	13.728	13.736	(0.921)	39355	0.45451	0.4545
38	2-Nitroaniline	65	14.007	14.007	(0.939)	16253	0.66822	0.6682
39	Dimethylphthalate	163	14.440	14.441	(0.968)	44440	0.50603	0.5060
40	Acenaphthylene	152	14.603	14.603	(0.979)	60534	0.44865	0.4486
41	2,6-Dinitrotoluene	165	14.572	14.580	(0.977)	17212	0.90726	0.9073
* 42	Acenaphthene-d10	164	14.913	14.913	(1.000)	270336	4.00000	
43	3-Nitroaniline	138	14.858	14.859	(0.996)	14552	0.67959	0.6796
44	Acenaphthene	153	14.982	14.982	(1.005)	36419	0.43692	0.4369
45	2,4-Dinitrophenol	184	15.083	15.067	(1.011)	2807	0.24508	0.2451
46	Dibenzofuran	168	15.307	15.307	(1.026)	58993	0.47994	0.4799
47	4-Nitrophenol	109	15.237	15.206	(1.022)	2821	0.20946	0.2095
48	2,4-Dinitrotoluene	165	15.384	15.384	(1.032)	20627	0.71934	0.7193
50	Diethylphthalate	149	15.902	15.902	(1.066)	50070	0.58109	0.5811
49	Fluorene	166	16.018	16.018	(1.074)	44511	0.46028	0.4603
51	4-Chlorophenyl-phenylether	204	16.026	16.018	(1.075)	22423	0.48761	0.4876
52	4-Nitroaniline	138	16.134	16.126	(1.082)	10672	0.55303	0.5530
53	4,6-Dinitro-2-methylphenol	198	16.219	16.219	(0.904)	17364	1.30073	1.301
54	N-Nitrosodiphenylamine	169	16.272	16.273	(0.907)	29098	0.49329	0.4933
$ 55	2,4,6-Tribromophenol	330	16.558	16.558	(1.110)	8039	0.63237	0.6324
56	4-Bromophenyl-phenylether	248	17.020	17.021	(0.948)	14128	0.57252	0.5725
57	Hexachlorobenzene	284	17.330	17.330	(0.966)	16894	0.65297	0.6530
58	Pentachlorophenol	266	17.694	17.694	(0.986)	9230	0.60254	0.6025
* 59	Phenanthrene-d10	188	17.949	17.949	(1.000)	441205	4.00000	
60	Phenanthrene	178	17.996	17.996	(1.003)	58353	0.48503	0.4850
61	Anthracene	178	18.088	18.089	(1.008)	53395	0.46267	0.4627
62	Carbazole	167	18.437	18.429	(1.027)	49789	0.48145	0.4815
63	Di-n-butylphthalate	149	19.264	19.265	(1.073)	67867	0.48827	0.4883
64	Fluoranthene	202	20.409	20.402	(0.885)	64324	0.37155	0.3716
65	Pyrene	202	20.835	20.827	(0.904)	69370	0.39061	0.3906
$ 66	Terphenyl-d14	244	21.137	21.137	(0.917)	53882	0.40401	0.4040
67	Butylbenzylphthalate	149	22.089	22.089	(0.958)	27989	0.44806	0.4481
68	Benzo(a)anthracene	228	23.018	23.019	(0.999)	70029	0.46049	0.4605
* 69	Chrysene-d12	240	23.049	23.042	(1.000)	430848	4.00000	
70	3,3'-Dichlorobenzidine	252	22.987	22.988	(0.997)	77407	1.58907	1.589
71	Chrysene	228	23.088	23.088	(1.002)	64093	0.43138	0.4314
72	bis(2-Ethylhexyl)phthalate	149	23.134	23.135	(0.959)	36379	0.42169	0.4217
* 134	Di-n-octylphthalate-d4	153	24.125	24.126	(1.000)	589771	4.00000	
73	Di-n-octylphthalate	149	24.133	24.133	(1.000)	73376	0.47542	0.4754
74	Benzo(b)fluoranthene	252	24.861	24.861	(0.971)	75455	0.48047	0.4805
75	Benzo(k)fluoranthene	252	24.907	24.908	(0.973)	81037	0.50818	0.5082
76	Benzo(a)pyrene	252	25.480	25.481	(0.995)	68109	0.48509	0.4851
* 77	Perylene-d12	264	25.597	25.589	(1.000)	484475	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.100	28.092	(1.098)	73141	0.40946	0.4095
79	Dibenzo(a,h)anthracene	278	28.123	28.116	(1.099)	59904	0.40393	0.4039
80	Benzo(g,h,i)perylene	276	28.838	28.822	(1.127)	54731	0.35404	0.3540
90	N-Nitrosodimethylamine	74	4.403	4.411	(0.499)	22060	0.85603	0.8560
91	Aniline	93	8.289	8.289	(0.939)	41673	0.73859	0.7386
93	Benzidine	184	20.665	20.657	(0.897)	50741	0.71354	0.7135
103	Pyridine	79	4.434	4.426	(0.503)	31027	0.78395	0.7840
105	1-methylnaphthalene	142	12.962	12.962	(1.146)	44261	0.53972	0.5397
111	Azobenzene (1,2-DP-Hydrazine)	77	16.342	16.350	(1.096)	37432	0.38889	0.3889

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	24.907	24.908	(0.973)	148752	0.98103	0.9810
120 2,3,4,6-Tetrachlorophenol	232	15.655	15.655	(1.050)	10696	0.39242	0.3924

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192334.D
Lab Smp Id: SLD0293-LCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Misc Info:

Calibration Date: 20-APR-2023
Calibration Time: 07:41
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	129725	64863	259450	133571	2.96
27 Naphthalene-d8	475671	237836	951342	468190	-1.57
42 Acenaphthene-d10	277889	138945	555778	270336	-2.72
59 Phenanthrene-d10	485346	242673	970692	441205	-9.09
69 Chrysene-d12	453075	226538	906150	430848	-4.91
134 Di-n-octylphthala	697265	348633	1394530	589771	-15.42
77 Perylene-d12	538138	269069	1076276	484475	-9.97

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.83	8.33	9.33	8.82	-0.09
27 Naphthalene-d8	11.31	10.81	11.81	11.31	-0.00
42 Acenaphthene-d10	14.91	14.41	15.41	14.91	-0.00
59 Phenanthrene-d10	17.95	17.45	18.45	17.95	-0.00
69 Chrysene-d12	23.04	22.54	23.54	23.05	0.03
134 Di-n-octylphthala	24.13	23.63	24.63	24.13	-0.00
77 Perylene-d12	25.59	25.09	26.09	25.60	0.03

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

REVIEW SUMMARY FOR FILE - NT1004192334.D

Lab ID: SLD0293-LCV1
nt10.i, 20230419B.b\ABN.m,   20-APR-2023 08:19

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.954	0.964	-0.0098	Benzoic acid

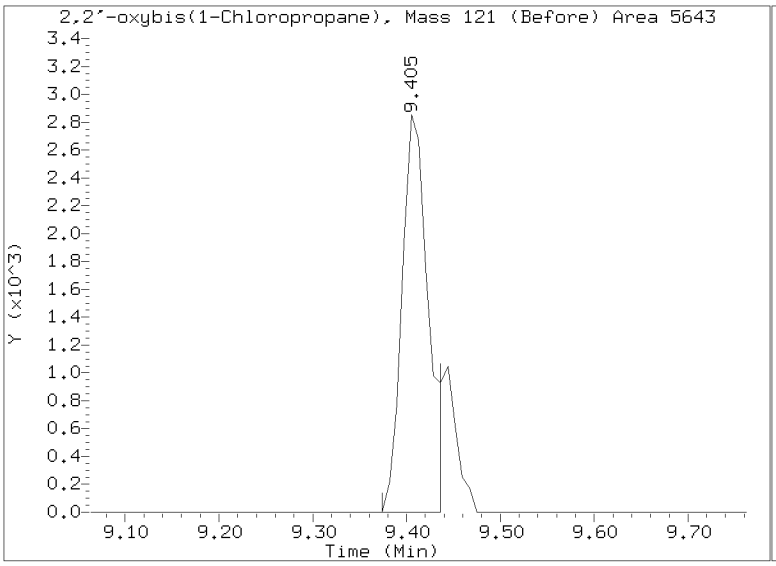
RRT check based on Ccal File: NT1004192333.D

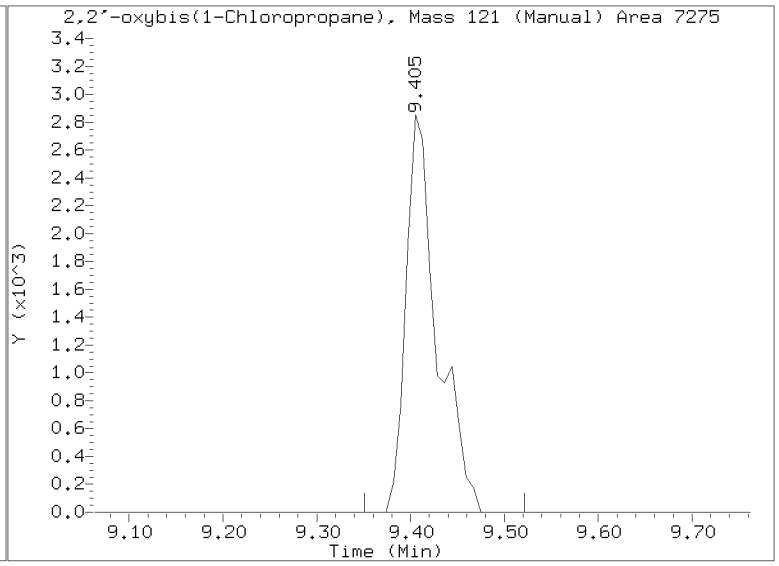
On Column LOD for nt10.i, 20230419B.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230419B.b/NT1004192334.D
Injection Date: 20-APR-2023 08:19
Lab ID:SLD0293-LCV1 Client ID:
Report Date: 04/21/2023 11:55





APPROVED

By Deenay Dunmore at 12:54 pm, Apr 21, 2023

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0228	Instrument:	NT10
		Calibration:	GC00046

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SLC0228-TUN1	NT10031501.D	NA	03/15/23 20:19
CAL 20	SLC0228-CAL7	NT10031502.D	NA	03/15/23 20:34
CAL 10	SLC0228-CAL6	NT10031503.D	NA	03/15/23 21:12
CAL 5	SLC0228-CAL5	NT10031504.D	NA	03/15/23 21:50
CAL 2.5	SLC0228-CAL4	NT10031505.D	NA	03/15/23 22:28
CAL 1.0	SLC0228-CAL3	NT10031506.D	NA	03/15/23 23:06
CAL 0.5	SLC0228-CAL2	NT10031507.D	NA	03/15/23 23:44
CAL 0.2	SLC0228-CAL1	NT10031508.D	NA	03/16/23 00:22
SCV 5.0	SLC0228-SCV1	NT10031511.D	NA	03/16/23 02:16
Initial Cal Blank	SLC0228-ICB1	NT10031512.D	NA	03/16/23 02:54

ANALYSIS SEQUENCE

SLC0228

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

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

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

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

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

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

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

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

Security Status Report

Date: 16-Mar-2023 13:06

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

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLD0293

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: NT10
Calibration: GC00046

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SLD0293-TUN1	NT1004192301B.D	NA	04/19/23 10:48
Initial Cal Check	SLD0293-ICV1	NT1004192333B.D	NA	04/20/23 07:41
ABN 0.5	SLD0293-LCV1	NT1004192334.D	NA	04/20/23 08:19
Blank	BLD0008-BLK1	NT1004192337.D	Solid	04/20/23 10:13
LCS	BLD0008-BS1	NT1004192338.D	Solid	04/20/23 10:51
LCS Dup	BLD0008-BSD1	NT1004192339.D	Solid	04/20/23 11:29
Reference	BLD0008-SRM1	NT1004192340.D	Solid	04/20/23 12:07
LDW23-SS1026	23C0752-01	NT1004192341.D	Solid	04/20/23 12:45
LDW23-SS1125	23C0752-02	NT1004192342.D	Solid	04/20/23 13:24
LDW23-SS1132	23C0752-03	NT1004192343.D	Solid	04/20/23 14:02
LDW23-SS1810	23C0752-04	NT1004192344.D	Solid	04/20/23 14:40
LDW23-SS1810	BLD0008-MS1	NT1004192345.D	Solid	04/20/23 15:18
LDW23-SS1810	BLD0008-MSD1	NT1004192346.D	Solid	04/20/23 15:56
LDW23-SS1809	23C0752-06	NT1004192347.D	Solid	04/20/23 16:34
Calibration Check	SLD0293-CCV1	NT1004192348.D	NA	04/20/23 17:12

ANALYSIS SEQUENCE

SLD0293

Instrument ID: NT10
Calibration ID: GC00046
MS EM Level: 1317.6 EV

GCMS Description: Agilent 5975/MS http://bi
GCMS Column ID: L002738

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLD0293-TUN1	MS Tune	QC		1	L002618		04/19/2023 10:48	NT1004192301B.D	DSD	
SLD0293-ICV1	Initial Cal Check	QC		2	K011109	K010831	04/20/2023 07:41	NT1004192333B.D	DSD	
SLD0293-LCV1	ABN 0.5	QC		3	K011106	K010831	04/20/2023 08:19	NT1004192334.D	DSD	
BLD0008-BLK1	Blank	QC		4		K010831	04/20/2023 10:13	NT1004192337.D	DSD	
BLD0008-BS1	LCS	QC		5		K010831	04/20/2023 10:51	NT1004192338.D	DSD	
BLD0008-BSD1	LCS Dup	QC		6		K010831	04/20/2023 11:29	NT1004192339.D	DSD	
BLD0008-SRM1	Reference	QC		7		K010831	04/20/2023 12:07	NT1004192340.D	DSD	
23C0752-01	LDW23-SS1026	(20ug/kg solid or 0.2ug/L l	A 02	8		K010831	04/20/2023 12:45	NT1004192341.D	DSD	
23C0752-02	LDW23-SS1125	(20ug/kg solid or 0.2ug/L l	A 02	9		K010831	04/20/2023 13:24	NT1004192342.D	DSD	
23C0752-03	LDW23-SS1132	(20ug/kg solid or 0.2ug/L l	A 02	10		K010831	04/20/2023 14:02	NT1004192343.D	DSD	
23C0752-04	LDW23-SS1810	(20ug/kg solid or 0.2ug/L l	A 02	11		K010831	04/20/2023 14:40	NT1004192344.D	DSD	
BLD0008-MS1	Matrix Spike	QC		12		K010831	04/20/2023 15:18	NT1004192345.D	DSD	
BLD0008-MSD1	Matrix Spike Dup	QC		13		K010831	04/20/2023 15:56	NT1004192346.D	DSD	
23C0752-06	LDW23-SS1809	(20ug/kg solid or 0.2ug/L l	A 02	14		K010831	04/20/2023 16:34	NT1004192347.D	DSD	
SLD0293-CCV1	Calibration Check	QC		15	K011109	K010831	04/20/2023 17:12	NT1004192348.D	DSD	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230419B.b

	Time	Filename	LabID	ClientId	DF																			
1	0741	NT1004192333.D	SLD0293-ICV3		1	8.83	129725	11.31	475671	14.91	277889	17.95	485346	23.04	453075	25.59	538138	24.13	697265
2	0819	NT1004192334.D	SLD0293-LCV3		1	8.82	133571	11.31	468190	14.91	270336	17.95	441205	23.05	430848	25.60	484475	24.13	589771
3	0857	NT1004192335.D	SIM-ICV3		1	8.83	115138	11.31	411575	14.91	242287	17.95	413947	23.04	398087	25.59	445058	24.13	543097
4	0935	NT1004192336.D	SIM-LCV3		1	8.83	129587	11.31	460803	14.91	260362	17.95	444737	23.04	433649	25.58	460142	24.12	544130
5	1013	NT1004192337.D	BLD0008-BLK1		1	8.83	123242	11.31	446167	14.91	259205	17.95	454746	23.04	424129	25.59	459776	24.13	548070
6	1051	NT1004192338.D	BLD0008-BS1		1	8.83	127587	11.32	479670	14.91	285576	17.95	496773	23.04	463568	25.59	522985	24.13	649949
7	1129	NT1004192339.D	BLD0008-BSD1		1	8.83	116526	11.31	430681	14.92	260856	17.95	449962	23.04	434573	25.58	469883	24.12	587129
8	1207	NT1004192340.D	BLD0008-SRM1		1	8.83	133056	11.31	497424	14.91	293487	17.95	518432	23.04	477060	25.59	536857	24.12	677474
9	1245	NT1004192341.D	23C0752-01		1	8.83	137559	11.31	515471	14.91	304739	17.95	567333	23.05	563830	25.60	652355	24.13	865485
10	1324	NT1004192342.D	23C0752-02		1	8.83	157628	11.31	580308	14.91	335956	17.95	602290	23.05	603639	25.60	687983	24.13	919850
11	1402	NT1004192343.D	23C0752-03		1	8.83	142615	11.31	518204	14.91	303418	17.95	521078	23.05	520455	25.60	622513	24.13	808525
12	1440	NT1004192344.D	23C0752-04		1	8.83	160687	11.31	582446	14.91	339746	17.96	620178	23.05	597598	25.61	696634	24.13	911232
13	1518	NT1004192345.D	BLD0008-MS1		1	8.83	145259	11.31	539795	14.92	319999	17.96	574859	23.05	582384	25.61	656795	24.13	889795
14	1556	NT1004192346.D	BLD0008-MSD1		1	8.83	120772	11.31	451781	14.92	268544	17.96	474583	23.06	470021	25.61	553204	24.13	743463
15	1634	NT1004192347.D	23C0752-06		1	8.83	152735	11.31	560508	14.92	326327	17.96	584828	23.06	595666	25.62	698197	24.14	933367
16	1712	NT1004192348.D	SLD0293-CCV1		1	8.83	135950	11.32	498724	14.92	298378	17.96	514692	23.05	499969	25.60	591650	24.13	798634

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230419B.b

ARI Job No.: SLD0 Method: DFTPP8270E.m Instrument: nt10.i Date: 19-APR-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1048	NT1004192301B.D	SLD0293-TUN1		1	NO MANUAL INTEGRATION
0741	NT1004192333B.D	SLD0293-ICV1		1	2,2'-oxybis(1-Chloropropane),
0819	NT1004192334.D	SLD0293-LCV1		1	2,2'-oxybis(1-Chloropropane),
0857	NT1004192335.D	SIM-ICV3		1	NO MANUAL INTEGRATION
0935	NT1004192336.D	SIM-LCV3		1	NO MANUAL INTEGRATION
1013	NT1004192337.D	BLD0008-BLK1		1	NO MANUAL INTEGRATION
1051	NT1004192338.D	BLD0008-BS1		1	NO MANUAL INTEGRATION
1129	NT1004192339.D	BLD0008-BSD1		1	NO MANUAL INTEGRATION
1207	NT1004192340.D	BLD0008-SRM1		1	NO MANUAL INTEGRATION
1245	NT1004192341.D	23C0752-01		1	NO MANUAL INTEGRATION
1324	NT1004192342.D	23C0752-02		1	Dibenzo(a,h)anthracene,
1402	NT1004192343.D	23C0752-03		1	NO MANUAL INTEGRATION
1440	NT1004192344.D	23C0752-04		1	NO MANUAL INTEGRATION
1518	NT1004192345.D	BLD0008-MS1		1	NO MANUAL INTEGRATION
1556	NT1004192346.D	BLD0008-MSD1		1	NO MANUAL INTEGRATION
1634	NT1004192347.D	23C0752-06		1	NO MANUAL INTEGRATION
1712	NT1004192348.D	SLD0293-CCV1		1	NO MANUAL INTEGRATION

Security Status Report

Date: 21-Apr-2023 12:48

NT1004192301B.D	Data Locked	deenayd, 21-
NT1004192333B.D	Data Locked	deenayd, 21-
NT1004192334.D	Data Locked	deenayd, 21-
NT1004192335.D	Data Locked	deenayd, 21-
NT1004192336.D	Data Locked	deenayd, 21-
NT1004192337.D	Data Locked	deenayd, 21-
NT1004192338.D	Data Locked	deenayd, 21-
NT1004192339.D	Data Locked	deenayd, 21-
NT1004192340.D	Data Locked	deenayd, 21-
NT1004192341.D	Data Locked	deenayd, 21-
NT1004192342.D	Data Locked	deenayd, 21-
NT1004192343.D	Data Locked	deenayd, 21-
NT1004192344.D	Data Locked	deenayd, 21-
NT1004192345.D	Data Locked	deenayd, 21-
NT1004192346.D	Data Locked	deenayd, 21-
NT1004192347.D	Data Locked	deenayd, 21-
NT1004192348.D	Data Locked	deenayd, 21-

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG/WO:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0228	Instrument:	NT10
Calibration:	GC00046	Calibration Date:	03/16/2023

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLC0228-SCV1 (Solid)			Lab File ID: NT10031511.D			Analyzed: 03/16/23 02:16		
2-Fluorophenol			80 - 120		7.067714	-7.0677	N/A	
Phenol-d5			80 - 120		8.638143	-8.6381	N/A	
2-Chlorophenol-d4			80 - 120		8.931857	-8.9319	N/A	
1,2-Dichlorobenzene-d4			80 - 120		9.659143	-9.6591	N/A	
Nitrobenzene-d5			80 - 120		10.389	-10.3890	N/A	
2-Fluorobiphenyl			80 - 120		13.982	-13.9820	N/A	
2,4,6-Tribromophenol			80 - 120		17.02143	-17.0214	N/A	
p-Terphenyl-d14			80 - 120		21.54257	-21.5426	N/A	
SLC0228-ICB1 (Solid)			Lab File ID: NT10031512.D			Analyzed: 03/16/23 02:54		
2-Fluorophenol	7.5000	92.3	27 - 120	7.067	7.067714	-0.0007	N/A	
Phenol-d5	7.5000	92.6	29 - 120	8.636	8.638143	-0.0021	N/A	
2-Chlorophenol-d4	7.5000	94.7	31 - 120	8.929	8.931857	-0.0029	N/A	
1,2-Dichlorobenzene-d4	5.0000	92.2	32 - 120	9.658	9.659143	-0.0011	N/A	
Nitrobenzene-d5	5.0000	93.1	30 - 120	10.387	10.389	-0.0020	N/A	
2-Fluorobiphenyl	5.0000	94.6	35 - 120	13.981	13.982	-0.0010	N/A	
2,4,6-Tribromophenol	7.5000	74.6	24 - 134	17.02	17.02143	-0.0014	N/A	
p-Terphenyl-d14	5.0000	91.7	37 - 120	21.544	21.54257	0.0014	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG/WO: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0293
Instrument: NT10
Calibration: GC00046
Calibration Date: 03/16/2023

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLD0293-ICV1 (Solid)			Lab File ID: NT1004192333B.D			Analyzed: 04/20/23 07:41		
2-Fluorophenol	7.5000	93.3	80 - 120	6.612	7.067714	-0.4557	N/A	
Phenol-d5	7.5000	89.6	80 - 120	8.219	8.638143	-0.4191	N/A	
2-Chlorophenol-d4	7.5000	102	80 - 120	8.474	8.931857	-0.4579	N/A	
1,2-Dichlorobenzene-d4	5.0000	91.7	80 - 120	9.187	9.659143	-0.4721	N/A	
Nitrobenzene-d5	5.0000	87.0	80 - 120	9.925	10.389	-0.4640	N/A	
2-Fluorobiphenyl	5.0000	88.9	80 - 120	13.527	13.982	-0.4550	N/A	
2,4,6-Tribromophenol	7.5000	106	80 - 120	16.558	17.02143	-0.4634	N/A	
p-Terphenyl-d14	5.0000	80.1	80 - 120	21.137	21.54257	-0.4056	N/A	
SLD0293-LCV1 (Solid)			Lab File ID: NT1004192334.D			Analyzed: 04/20/23 08:19		
2-Fluorophenol	0.75000	89.4	50 - 150	6.604	7.067714	-0.4637	N/A	
Phenol-d5	0.75000	79.4	50 - 150	8.211	8.638143	-0.4271	N/A	
2-Chlorophenol-d4	0.75000	90.2	50 - 150	8.466	8.931857	-0.4659	N/A	
1,2-Dichlorobenzene-d4	0.50000	88.5	50 - 150	9.187	9.659143	-0.4721	N/A	
Nitrobenzene-d5	0.50000	83.7	50 - 150	9.925	10.389	-0.4640	N/A	
2-Fluorobiphenyl	0.50000	87.2	50 - 150	13.527	13.982	-0.4550	N/A	
2,4,6-Tribromophenol	0.75000	84.3	50 - 150	16.558	17.02143	-0.4634	N/A	
p-Terphenyl-d14	0.50000	80.8	50 - 150	21.137	21.54257	-0.4056	N/A	
BLD0008-BLK1 (Solid)			Lab File ID: NT1004192337.D			Analyzed: 04/20/23 10:13		
2-Fluorophenol	750.00	51.8	27 - 120	6.62	7.067714	-0.4477	N/A	
Phenol-d5	750.00	52.9	29 - 120	8.211	8.638143	-0.4271	N/A	
2-Chlorophenol-d4	750.00	64.1	31 - 120	8.474	8.931857	-0.4579	N/A	
1,2-Dichlorobenzene-d4	500.00	59.8	32 - 120	9.187	9.659143	-0.4721	N/A	
Nitrobenzene-d5	500.00	59.1	30 - 120	9.925	10.389	-0.4640	N/A	
2-Fluorobiphenyl	500.00	59.4	35 - 120	13.535	13.982	-0.4470	N/A	
2,4,6-Tribromophenol	750.00	56.2	24 - 134	16.558	17.02143	-0.4634	N/A	
p-Terphenyl-d14	500.00	59.0	37 - 120	21.137	21.54257	-0.4056	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG/WO:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0293	Instrument:	NT10
Calibration:	GC00046	Calibration Date:	03/16/2023

Surrogate Compound	Spike Level ug/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BLD0008-BS1 (Solid)			Lab File ID: NT1004192338.D			Analyzed: 04/20/23 10:51		
2-Fluorophenol	750.00	60.8	27 - 120	6.62	7.067714	-0.4477	N/A	
Phenol-d5	750.00	62.4	29 - 120	8.219	8.638143	-0.4191	N/A	
2-Chlorophenol-d4	750.00	65.7	31 - 120	8.474	8.931857	-0.4579	N/A	
1,2-Dichlorobenzene-d4	500.00	62.9	32 - 120	9.187	9.659143	-0.4721	N/A	
Nitrobenzene-d5	500.00	61.0	30 - 120	9.925	10.389	-0.4640	N/A	
2-Fluorobiphenyl	500.00	62.2	35 - 120	13.535	13.982	-0.4470	N/A	
2,4,6-Tribromophenol	750.00	77.9	24 - 134	16.558	17.02143	-0.4634	N/A	
p-Terphenyl-d14	500.00	62.4	37 - 120	21.137	21.54257	-0.4056	N/A	
BLD0008-BSD1 (Solid)			Lab File ID: NT1004192339.D			Analyzed: 04/20/23 11:29		
2-Fluorophenol	750.00	63.4	27 - 120	6.619	7.067714	-0.4487	N/A	
Phenol-d5	750.00	64.1	29 - 120	8.219	8.638143	-0.4191	N/A	
2-Chlorophenol-d4	750.00	73.5	31 - 120	8.474	8.931857	-0.4579	N/A	
1,2-Dichlorobenzene-d4	500.00	63.5	32 - 120	9.187	9.659143	-0.4721	N/A	
Nitrobenzene-d5	500.00	63.8	30 - 120	9.924	10.389	-0.4650	N/A	
2-Fluorobiphenyl	500.00	63.4	35 - 120	13.527	13.982	-0.4550	N/A	
2,4,6-Tribromophenol	750.00	82.8	24 - 134	16.558	17.02143	-0.4634	N/A	
p-Terphenyl-d14	500.00	64.0	37 - 120	21.137	21.54257	-0.4056	N/A	
BLD0008-SRM1 (Solid)			Lab File ID: NT1004192340.D			Analyzed: 04/20/23 12:07		
2-Fluorophenol	7500.0	61.3	27 - 120	6.619	7.067714	-0.4487	N/A	
Phenol-d5	7500.0	61.3	29 - 120	8.219	8.638143	-0.4191	N/A	
2-Chlorophenol-d4	7500.0	72.0	31 - 120	8.474	8.931857	-0.4579	N/A	
1,2-Dichlorobenzene-d4	5000.0	61.7	32 - 120	9.187	9.659143	-0.4721	N/A	
Nitrobenzene-d5	5000.0	61.3	30 - 120	9.924	10.389	-0.4650	N/A	
2-Fluorobiphenyl	5000.0	62.5	35 - 120	13.527	13.982	-0.4550	N/A	
2,4,6-Tribromophenol	7500.0	74.9	24 - 134	16.55	17.02143	-0.4714	N/A	
p-Terphenyl-d14	5000.0	64.0	37 - 120	21.137	21.54257	-0.4056	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG/WO:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0293	Instrument:	NT10
Calibration:	GC00046	Calibration Date:	03/16/2023

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23C0752-01 (Solid)			Lab File ID: NT1004192341.D			Analyzed: 04/20/23 12:45		
2-Fluorophenol	747.16	54.3	27 - 120	6.62	7.067714	-0.4477	N/A	
Phenol-d5	747.16	58.2	29 - 120	8.219	8.638143	-0.4191	N/A	
2-Chlorophenol-d4	747.16	61.0	31 - 120	8.474	8.931857	-0.4579	N/A	
1,2-Dichlorobenzene-d4	498.11	56.9	32 - 120	9.187	9.659143	-0.4721	N/A	
Nitrobenzene-d5	498.11	57.3	30 - 120	9.925	10.389	-0.4640	N/A	
2-Fluorobiphenyl	498.11	59.3	35 - 120	13.527	13.982	-0.4550	N/A	
2,4,6-Tribromophenol	747.16	76.9	24 - 134	16.55	17.02143	-0.4714	N/A	
p-Terphenyl-d14	498.11	55.2	37 - 120	21.137	21.54257	-0.4056	N/A	
23C0752-02 (Solid)			Lab File ID: NT1004192342.D			Analyzed: 04/20/23 13:24		
2-Fluorophenol	748.40	61.8	27 - 120	6.628	7.067714	-0.4397	N/A	
Phenol-d5	748.40	62.4	29 - 120	8.219	8.638143	-0.4191	N/A	
2-Chlorophenol-d4	748.40	74.6	31 - 120	8.474	8.931857	-0.4579	N/A	
1,2-Dichlorobenzene-d4	498.93	62.5	32 - 120	9.187	9.659143	-0.4721	N/A	
Nitrobenzene-d5	498.93	61.8	30 - 120	9.925	10.389	-0.4640	N/A	
2-Fluorobiphenyl	498.93	65.5	35 - 120	13.527	13.982	-0.4550	N/A	
2,4,6-Tribromophenol	748.40	82.6	24 - 134	16.558	17.02143	-0.4634	N/A	
p-Terphenyl-d14	498.93	59.7	37 - 120	21.145	21.54257	-0.3976	N/A	
23C0752-03 (Solid)			Lab File ID: NT1004192343.D			Analyzed: 04/20/23 14:02		
2-Fluorophenol	749.22	62.9	27 - 120	6.62	7.067714	-0.4477	N/A	
Phenol-d5	749.22	61.4	29 - 120	8.219	8.638143	-0.4191	N/A	
2-Chlorophenol-d4	749.22	75.9	31 - 120	8.474	8.931857	-0.4579	N/A	
1,2-Dichlorobenzene-d4	499.48	64.0	32 - 120	9.187	9.659143	-0.4721	N/A	
Nitrobenzene-d5	499.48	62.0	30 - 120	9.925	10.389	-0.4640	N/A	
2-Fluorobiphenyl	499.48	65.0	35 - 120	13.527	13.982	-0.4550	N/A	
2,4,6-Tribromophenol	749.22	78.2	24 - 134	16.558	17.02143	-0.4634	N/A	
p-Terphenyl-d14	499.48	59.6	37 - 120	21.137	21.54257	-0.4056	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG/WO:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0293	Instrument:	NT10
Calibration:	GC00046	Calibration Date:	03/16/2023

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23C0752-04 (Solid)			Lab File ID: NT1004192344.D			Analyzed: 04/20/23 14:40		
2-Fluorophenol	749.67	57.3	27 - 120	6.619	7.067714	-0.4487	N/A	
Phenol-d5	749.67	56.3	29 - 120	8.219	8.638143	-0.4191	N/A	
2-Chlorophenol-d4	749.67	68.7	31 - 120	8.474	8.931857	-0.4579	N/A	
1,2-Dichlorobenzene-d4	499.78	56.8	32 - 120	9.187	9.659143	-0.4721	N/A	
Nitrobenzene-d5	499.78	57.2	30 - 120	9.924	10.389	-0.4650	N/A	
2-Fluorobiphenyl	499.78	61.0	35 - 120	13.527	13.982	-0.4550	N/A	
2,4,6-Tribromophenol	749.67	76.2	24 - 134	16.558	17.02143	-0.4634	N/A	
p-Terphenyl-d14	499.78	56.1	37 - 120	21.144	21.54257	-0.3986	N/A	
BLD0008-MS1 (Solid)			Lab File ID: NT1004192345.D			Analyzed: 04/20/23 15:18		
2-Fluorophenol	750.07	63.9	27 - 120	6.627	7.067714	-0.4407	N/A	
Phenol-d5	750.07	64.8	29 - 120	8.227	8.638143	-0.4111	N/A	
2-Chlorophenol-d4	750.07	69.6	31 - 120	8.474	8.931857	-0.4579	N/A	
1,2-Dichlorobenzene-d4	500.05	64.3	32 - 120	9.187	9.659143	-0.4721	N/A	
Nitrobenzene-d5	500.05	63.2	30 - 120	9.924	10.389	-0.4650	N/A	
2-Fluorobiphenyl	500.05	66.4	35 - 120	13.535	13.982	-0.4470	N/A	
2,4,6-Tribromophenol	750.07	79.8	24 - 134	16.565	17.02143	-0.4564	N/A	
p-Terphenyl-d14	500.05	58.9	37 - 120	21.144	21.54257	-0.3986	N/A	
BLD0008-MSD1 (Solid)			Lab File ID: NT1004192346.D			Analyzed: 04/20/23 15:56		
2-Fluorophenol	750.07	65.3	27 - 120	6.62	7.067714	-0.4477	N/A	
Phenol-d5	750.07	64.4	29 - 120	8.219	8.638143	-0.4191	N/A	
2-Chlorophenol-d4	750.07	76.7	31 - 120	8.474	8.931857	-0.4579	N/A	
1,2-Dichlorobenzene-d4	500.05	63.1	32 - 120	9.187	9.659143	-0.4721	N/A	
Nitrobenzene-d5	500.05	61.9	30 - 120	9.924	10.389	-0.4650	N/A	
2-Fluorobiphenyl	500.05	64.5	35 - 120	13.535	13.982	-0.4470	N/A	
2,4,6-Tribromophenol	750.07	79.4	24 - 134	16.558	17.02143	-0.4634	N/A	
p-Terphenyl-d14	500.05	59.5	37 - 120	21.144	21.54257	-0.3986	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG/WO:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0293	Instrument:	NT10
Calibration:	GC00046	Calibration Date:	03/16/2023

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23C0752-06 (Solid)			Lab File ID: NT1004192347.D			Analyzed: 04/20/23 16:34		
2-Fluorophenol	749.09	45.0	27 - 120	6.619	7.067714	-0.4487	N/A	
Phenol-d5	749.09	49.6	29 - 120	8.219	8.638143	-0.4191	N/A	
2-Chlorophenol-d4	749.09	55.5	31 - 120	8.474	8.931857	-0.4579	N/A	
1,2-Dichlorobenzene-d4	499.40	35.6	32 - 120	9.187	9.659143	-0.4721	N/A	
Nitrobenzene-d5	499.40	45.5	30 - 120	9.924	10.389	-0.4650	N/A	
2-Fluorobiphenyl	499.40	59.0	35 - 120	13.535	13.982	-0.4470	N/A	
2,4,6-Tribromophenol	749.09	73.8	24 - 134	16.565	17.02143	-0.4564	N/A	
p-Terphenyl-d14	499.40	53.7	37 - 120	21.152	21.54257	-0.3906	N/A	
SLD0293-CCV1 (Solid)			Lab File ID: NT1004192348.D			Analyzed: 04/20/23 17:12		
2-Fluorophenol	7.5000	91.9	50 - 150	6.612	7.067714	-0.4557	N/A	
Phenol-d5	7.5000	89.8	50 - 150	8.219	8.638143	-0.4191	N/A	
2-Chlorophenol-d4	7.5000	104	50 - 150	8.474	8.931857	-0.4579	N/A	
1,2-Dichlorobenzene-d4	5.0000	93.4	50 - 150	9.187	9.659143	-0.4721	N/A	
Nitrobenzene-d5	5.0000	86.7	50 - 150	9.925	10.389	-0.4640	N/A	
2-Fluorobiphenyl	5.0000	86.6	50 - 150	13.535	13.982	-0.4470	N/A	
2,4,6-Tribromophenol	7.5000	102	50 - 150	16.566	17.02143	-0.4554	N/A	
p-Terphenyl-d14	5.0000	77.9	50 - 150	21.145	21.54257	-0.3976	N/A	

Analytical Resources, LLC
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INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0228	Instrument:	NT10
		Calibration:	GC00046

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (SLC0228-SCV1)		(Solid)		Lab File ID: NT10031511.D				Analyzed: 03/16/23 02:16	
1,4-Dichlorobenzene-d4	154809	9.301	171542	9.301	90	50 - 200	0.000	+/-0.50	
Naphthalene-d8	570882	11.777	624466	11.777	91	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	303490	15.383	337226	15.382	90	50 - 200	0.001	+/-0.50	
Phenanthrene-d10	533431	18.42	572849	18.419	93	50 - 200	0.001	+/-0.50	
Chrysene-d12	435381	23.458	347068	23.449	125	50 - 200	0.009	+/-0.50	
Di-n-Octylphthalate-d4	660827	24.487	500317	24.479	132	50 - 200	0.008	+/-0.50	
Perylene-d12	494648	26.191	421549	26.182	117	50 - 200	0.009	+/-0.50	
Initial Cal Blank (SLC0228-ICB1)		(Solid)		Lab File ID: NT10031512.D				Analyzed: 03/16/23 02:54	
1,4-Dichlorobenzene-d4	173115	9.301	171542	9.301	101	50 - 200	0.000	+/-0.50	
Naphthalene-d8	625865	11.776	624466	11.777	100	50 - 200	-0.001	+/-0.50	
Acenaphthene-d10	328712	15.382	337226	15.382	97	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	592693	18.419	572849	18.419	103	50 - 200	0.000	+/-0.50	
Chrysene-d12	442208	23.449	347068	23.449	127	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	526309	24.479	500317	24.479	105	50 - 200	0.000	+/-0.50	
Perylene-d12	499804	26.182	421549	26.182	119	50 - 200	0.000	+/-0.50	

Analytical Resources, LLC
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INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0293	Instrument:	NT10
		Calibration:	GC00046

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SLD0293-ICV1)		(Solid)	Lab File ID: NT1004192333B.D				Analyzed: 04/20/23 07:41		
1,4-Dichlorobenzene-d4	129725	8.83	129725	8.83	100	50 - 200	0.000	+/-0.50	
Naphthalene-d8	475671	11.307	475671	11.307	100	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	277889	14.913	277889	14.913	100	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	485346	17.949	485346	17.949	100	50 - 200	0.000	+/-0.50	
Chrysene-d12	453075	23.042	453075	23.042	100	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	697265	24.126	697265	24.126	100	50 - 200	0.000	+/-0.50	
Perylene-d12	538138	25.589	538138	25.589	100	50 - 200	0.000	+/-0.50	
Low Cal Check (SLD0293-LCV1)		(Solid)	Lab File ID: NT1004192334.D				Analyzed: 04/20/23 08:19		
1,4-Dichlorobenzene-d4	133571	8.823	129725	8.83	103	50 - 200	-0.007	+/-0.50	
Naphthalene-d8	468190	11.307	475671	11.307	98	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	270336	14.913	277889	14.913	97	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	441205	17.949	485346	17.949	91	50 - 200	0.000	+/-0.50	
Chrysene-d12	430848	23.049	453075	23.042	95	50 - 200	0.007	+/-0.50	
Di-n-Octylphthalate-d4	589771	24.125	697265	24.126	85	50 - 200	-0.001	+/-0.50	
Perylene-d12	484475	25.597	538138	25.589	90	50 - 200	0.008	+/-0.50	
Blank (BLD0008-BLK1)		(Solid)	Lab File ID: NT1004192337.D				Analyzed: 04/20/23 10:13		
1,4-Dichlorobenzene-d4	123242	8.83	129725	8.83	95	50 - 200	0.000	+/-0.50	
Naphthalene-d8	446167	11.307	475671	11.307	94	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	259205	14.912	277889	14.913	93	50 - 200	-0.001	+/-0.50	
Phenanthrene-d10	454746	17.949	485346	17.949	94	50 - 200	0.000	+/-0.50	
Chrysene-d12	424129	23.041	453075	23.042	94	50 - 200	-0.001	+/-0.50	
Di-n-Octylphthalate-d4	548070	24.125	697265	24.126	79	50 - 200	-0.001	+/-0.50	
Perylene-d12	459776	25.589	538138	25.589	85	50 - 200	0.000	+/-0.50	
LCS (BLD0008-BS1)		(Solid)	Lab File ID: NT1004192338.D				Analyzed: 04/20/23 10:51		
1,4-Dichlorobenzene-d4	127587	8.83	129725	8.83	98	50 - 200	0.000	+/-0.50	
Naphthalene-d8	479670	11.315	475671	11.307	101	50 - 200	0.008	+/-0.50	
Acenaphthene-d10	285576	14.913	277889	14.913	103	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	496773	17.949	485346	17.949	102	50 - 200	0.000	+/-0.50	
Chrysene-d12	463568	23.042	453075	23.042	102	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	649949	24.126	697265	24.126	93	50 - 200	0.000	+/-0.50	
Perylene-d12	522985	25.589	538138	25.589	97	50 - 200	0.000	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0293	Instrument:	NT10
		Calibration:	GC00046

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS Dup (BLD0008-BSD1)		(Solid)		Lab File ID: NT1004192339.D				Analyzed: 04/20/23 11:29	
1,4-Dichlorobenzene-d4	116526	8.83	129725	8.83	90	50 - 200	0.000	+/-0.50	
Naphthalene-d8	430681	11.307	475671	11.307	91	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	260856	14.92	277889	14.913	94	50 - 200	0.007	+/-0.50	
Phenanthrene-d10	449962	17.949	485346	17.949	93	50 - 200	0.000	+/-0.50	
Chrysene-d12	434573	23.041	453075	23.042	96	50 - 200	-0.001	+/-0.50	
Di-n-Octylphthalate-d4	587129	24.117	697265	24.126	84	50 - 200	-0.009	+/-0.50	
Perylene-d12	469883	25.581	538138	25.589	87	50 - 200	-0.008	+/-0.50	
Reference (BLD0008-SRM1)		(Solid)		Lab File ID: NT1004192340.D				Analyzed: 04/20/23 12:07	
1,4-Dichlorobenzene-d4	133056	8.83	129725	8.83	103	50 - 200	0.000	+/-0.50	
Naphthalene-d8	497424	11.307	475671	11.307	105	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	293487	14.912	277889	14.913	106	50 - 200	-0.001	+/-0.50	
Phenanthrene-d10	518432	17.949	485346	17.949	107	50 - 200	0.000	+/-0.50	
Chrysene-d12	477060	23.041	453075	23.042	105	50 - 200	-0.001	+/-0.50	
Di-n-Octylphthalate-d4	677474	24.117	697265	24.126	97	50 - 200	-0.009	+/-0.50	
Perylene-d12	536857	25.589	538138	25.589	100	50 - 200	0.000	+/-0.50	
LDW23-SS1026 (23C0752-01)		(Solid)		Lab File ID: NT1004192341.D				Analyzed: 04/20/23 12:45	
1,4-Dichlorobenzene-d4	137559	8.83	129725	8.83	106	50 - 200	0.000	+/-0.50	
Naphthalene-d8	515471	11.307	475671	11.307	108	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	304739	14.913	277889	14.913	110	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	567333	17.949	485346	17.949	117	50 - 200	0.000	+/-0.50	
Chrysene-d12	563830	23.049	453075	23.042	124	50 - 200	0.007	+/-0.50	
Di-n-Octylphthalate-d4	865485	24.125	697265	24.126	124	50 - 200	-0.001	+/-0.50	
Perylene-d12	652355	25.596	538138	25.589	121	50 - 200	0.007	+/-0.50	
LDW23-SS1125 (23C0752-02)		(Solid)		Lab File ID: NT1004192342.D				Analyzed: 04/20/23 13:24	
1,4-Dichlorobenzene-d4	157628	8.83	129725	8.83	122	50 - 200	0.000	+/-0.50	
Naphthalene-d8	580308	11.307	475671	11.307	122	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	335956	14.913	277889	14.913	121	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	602290	17.949	485346	17.949	124	50 - 200	0.000	+/-0.50	
Chrysene-d12	603639	23.049	453075	23.042	133	50 - 200	0.007	+/-0.50	
Di-n-Octylphthalate-d4	919850	24.126	697265	24.126	132	50 - 200	0.000	+/-0.50	
Perylene-d12	687983	25.604	538138	25.589	128	50 - 200	0.015	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0293	Instrument:	NT10
		Calibration:	GC00046

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW23-SS1132 (23C0752-03)		(Solid)		Lab File ID: NT1004192343.D				Analyzed: 04/20/23 14:02	
1,4-Dichlorobenzene-d4	142615	8.83	129725	8.83	110	50 - 200	0.000	+/-0.50	
Naphthalene-d8	518204	11.307	475671	11.307	109	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	303418	14.912	277889	14.913	109	50 - 200	-0.001	+/-0.50	
Phenanthrene-d10	521078	17.949	485346	17.949	107	50 - 200	0.000	+/-0.50	
Chrysene-d12	520455	23.049	453075	23.042	115	50 - 200	0.007	+/-0.50	
Di-n-Octylphthalate-d4	808525	24.125	697265	24.126	116	50 - 200	-0.001	+/-0.50	
Perylene-d12	622513	25.596	538138	25.589	116	50 - 200	0.007	+/-0.50	
LDW23-SS1810 (23C0752-04)		(Solid)		Lab File ID: NT1004192344.D				Analyzed: 04/20/23 14:40	
1,4-Dichlorobenzene-d4	160687	8.83	129725	8.83	124	50 - 200	0.000	+/-0.50	
Naphthalene-d8	582446	11.307	475671	11.307	122	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	339746	14.912	277889	14.913	122	50 - 200	-0.001	+/-0.50	
Phenanthrene-d10	620178	17.957	485346	17.949	128	50 - 200	0.008	+/-0.50	
Chrysene-d12	597598	23.049	453075	23.042	132	50 - 200	0.007	+/-0.50	
Di-n-Octylphthalate-d4	911232	24.125	697265	24.126	131	50 - 200	-0.001	+/-0.50	
Perylene-d12	696634	25.612	538138	25.589	129	50 - 200	0.023	+/-0.50	
Matrix Spike (BLD0008-MS1)		(Solid)		Lab File ID: NT1004192345.D				Analyzed: 04/20/23 15:18	
1,4-Dichlorobenzene-d4	145259	8.83	129725	8.83	112	50 - 200	0.000	+/-0.50	
Naphthalene-d8	539795	11.314	475671	11.307	113	50 - 200	0.007	+/-0.50	
Acenaphthene-d10	319999	14.92	277889	14.913	115	50 - 200	0.007	+/-0.50	
Phenanthrene-d10	574859	17.957	485346	17.949	118	50 - 200	0.008	+/-0.50	
Chrysene-d12	582384	23.049	453075	23.042	129	50 - 200	0.007	+/-0.50	
Di-n-Octylphthalate-d4	889795	24.133	697265	24.126	128	50 - 200	0.007	+/-0.50	
Perylene-d12	656795	25.612	538138	25.589	122	50 - 200	0.023	+/-0.50	
Matrix Spike Dup (BLD0008-MSD1)		(Solid)		Lab File ID: NT1004192346.D				Analyzed: 04/20/23 15:56	
1,4-Dichlorobenzene-d4	120772	8.83	129725	8.83	93	50 - 200	0.000	+/-0.50	
Naphthalene-d8	451781	11.314	475671	11.307	95	50 - 200	0.007	+/-0.50	
Acenaphthene-d10	268544	14.92	277889	14.913	97	50 - 200	0.007	+/-0.50	
Phenanthrene-d10	474583	17.957	485346	17.949	98	50 - 200	0.008	+/-0.50	
Chrysene-d12	470021	23.057	453075	23.042	104	50 - 200	0.015	+/-0.50	
Di-n-Octylphthalate-d4	743463	24.133	697265	24.126	107	50 - 200	0.007	+/-0.50	
Perylene-d12	553204	25.612	538138	25.589	103	50 - 200	0.023	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0293	Instrument:	NT10
		Calibration:	GC00046

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW23-SS1809 (23C0752-06)		(Solid)		Lab File ID: NT1004192347.D				Analyzed: 04/20/23 16:34	
1,4-Dichlorobenzene-d4	152735	8.83	129725	8.83	118	50 - 200	0.000	+/-0.50	
Naphthalene-d8	560508	11.314	475671	11.307	118	50 - 200	0.007	+/-0.50	
Acenaphthene-d10	326327	14.92	277889	14.913	117	50 - 200	0.007	+/-0.50	
Phenanthrene-d10	584828	17.957	485346	17.949	120	50 - 200	0.008	+/-0.50	
Chrysene-d12	595666	23.057	453075	23.042	131	50 - 200	0.015	+/-0.50	
Di-n-Octylphthalate-d4	933367	24.141	697265	24.126	134	50 - 200	0.015	+/-0.50	
Perylene-d12	698197	25.62	538138	25.589	130	50 - 200	0.031	+/-0.50	
Calibration Check (SLD0293-CCV1)		(Solid)		Lab File ID: NT1004192348.D				Analyzed: 04/20/23 17:12	
1,4-Dichlorobenzene-d4	135950	8.83	129725	8.83	105	50 - 200	0.000	+/-0.50	
Naphthalene-d8	498724	11.315	475671	11.307	105	50 - 200	0.008	+/-0.50	
Acenaphthene-d10	298378	14.92	277889	14.913	107	50 - 200	0.007	+/-0.50	
Phenanthrene-d10	514692	17.957	485346	17.949	106	50 - 200	0.008	+/-0.50	
Chrysene-d12	499969	23.049	453075	23.042	110	50 - 200	0.007	+/-0.50	
Di-n-Octylphthalate-d4	798634	24.126	697265	24.126	115	50 - 200	0.000	+/-0.50	
Perylene-d12	591650	25.604	538138	25.589	110	50 - 200	0.015	+/-0.50	

HOLDING TIME SUMMARY

Analysis: EPA 8270E

Laboratory: Analytical Resources, LLC SDG: 23C0752

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

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1026 23C0752-01	03/30/23 10:37	03/30/23 16:25	04/03/23 11:31	4	14	04/20/23 12:45	17	40	
LDW23-SS1125 23C0752-02	03/30/23 11:10	03/30/23 16:25	04/03/23 11:31	4	14	04/20/23 13:24	17	40	
LDW23-SS1132 23C0752-03	03/30/23 11:30	03/30/23 16:25	04/03/23 11:31	4	14	04/20/23 14:02	17	40	
LDW23-SS1810 23C0752-04	03/30/23 10:36	03/30/23 16:25	04/03/23 11:31	4	14	04/20/23 14:40	17	40	
LDW23-SS1809 23C0752-06	03/30/23 14:30	03/30/23 16:25	04/03/23 11:31	3	14	04/20/23 16:34	17	40	
Matrix Spike BLD0008-MS1	03/30/23 10:36	03/30/23 16:25	04/03/23 11:31	4	14	04/20/23 15:18	17	40	
Matrix Spike Dup BLD0008-MSD1	03/30/23 10:36	03/30/23 16:25	04/03/23 11:31	4	14	04/20/23 15:56	17	40	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: NT10

Analyte	MDL	RL	Units
Phenol	4.4	20.0	ug/kg
4-Methylphenol	7.4	20.0	ug/kg
Naphthalene	4.2	20.0	ug/kg
2-Methylnaphthalene	4.5	20.0	ug/kg
Acenaphthylene	6.2	20.0	ug/kg
Dimethylphthalate	4.4	20.0	ug/kg
Acenaphthene	5.2	20.0	ug/kg
Dibenzofuran	14.1	20.0	ug/kg
Fluorene	14.6	20.0	ug/kg
Phenanthrene	8.7	20.0	ug/kg
Anthracene	7.2	20.0	ug/kg
Fluoranthene	6.1	20.0	ug/kg
Pyrene	5.7	20.0	ug/kg
Butylbenzylphthalate	9.4	20.0	ug/kg
Benzo(a)anthracene	6.0	20.0	ug/kg
Chrysene	6.1	20.0	ug/kg
bis(2-Ethylhexyl)phthalate	5.5	50.0	ug/kg
Benzofluoranthenes, Total	10.0	40.0	ug/kg
Benzo(a)pyrene	4.2	20.0	ug/kg
Indeno(1,2,3-cd)pyrene	14.7	20.0	ug/kg
Dibenzo(a,h)anthracene	17.2	20.0	ug/kg
Benzo(g,h,i)perylene	13.6	20.0	ug/kg

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: NA

Chemical: Tributyl Phosphate

Manufacturer: Chemservice

Product #: O-916

Lot #: 59-57A

Purity: 99%

Analyst: VB

Element: B000954

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001873

Printed: 9/23/2013 11:47:03AM

Description:	SVOC 4,4 DDT	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	23-Sep-13
Solvent:	N/A	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 11:46 by JZ
Vendor:	Chem Service	Lot #:	198-128A
Vendor Catalog #:			

Comments

Neat, Purity @ 99.2%. (ARI#: 790A)

Analyte	CAS Number	Concentration	Units
4,4'-DDT	50-29-3	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: 4,4' DDT

Manufacturer: Chem Service

Product #: _____

Lot #: 198-128A

Purity: 99.2%

Analyst: AB

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001875

Printed: 9/23/2013 12:13:55PM

Description:	SVOC alpha-Terpineol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	N/A	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 12:13 by JZ
Vendor:	ACROS Organics	Lot #:	AD16481201
Vendor Catalog #:			

Comments

Neat, Purity @ 98%. (ARI#: I1582A)

Analyte	CAS Number	Concentration	Units
alpha-Terpineol	98-55-5	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: alpha-Terpineol

Manufacturer: Acros Organics

Product #: _____

Lot #: A0648170 1

Purity: 98%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001885

Printed: 9/23/2013 3:45:57PM

Description:	SVOA Dibutyl Phenyl phosphate	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 15:45 by JZ
Vendor:	Monsanto	Lot #:	N/A
Vendor Catalog #:			

Comments

Neat, Purity @ 98.9%.

Analyte	CAS Number	Concentration	Units
Dibutyl Phenyl Phosphate	2528-36-1	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Dibutyl Phenyl Phosphate

Manufacturer: Monsanto

Product #: N/A

Lot #: N/A

Purity: 98.9%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001886

Printed: 9/23/2013 3:59:35PM

Description:	SVOC Triphenyl Phosphate	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 15:59 by JZ
Vendor:	Aldrich	Lot #:	04902CM
Vendor Catalog #:			

Comments

Neat, Purity @ 99%.

Analyte	CAS Number	Concentration	Units
Triphenyl Phosphate	115-86-6	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Triphenyl Phosphate

Manufacturer: Aldrich

Product #: _____

Lot #: 04907CM

Purity: 99%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001887

Printed: 9/23/2013 4:18:55PM

Description:	SVOC Butylated Hydroxytoluene	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 16:18 by JZ
Vendor:	SIGMA	Lot #:	39F-0197
Vendor Catalog #:			

Comments

neat,Purity @ 99.9%.

Analyte	CAS Number	Concentration	Units
Butylated Hydroxytoluene	128-37-0	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Butylated Hydroxytoluene

Manufacturer: Sigma

Product #: _____

Lot #: 39F-0197

Purity: 99.8%

Analyst: AR

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001890

Printed: 9/23/2013 5:02:53PM

Description:	SVOC Butyl Diphenyl Phosphate	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 17:02 by JZ
Vendor:	Monsanto	Lot #:	N/A
Vendor Catalog #:			

Comments

Neat, Purity @ 98%.

Analyte	CAS Number	Concentration	Units
Butyl Diphenyl Phosphate	2752-95-6	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Butyl Diphenyl Phosphate

Manufacturer: Monsanto

Product #: NA

Lot #: NA

Purity: 98%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001941

Printed: 9/25/2013 1:45:31PM

Description:	SVOC 2,4-Dinitrophenol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	25-Sep-13
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 13:45 by JZ
Vendor:	SIGMA	Lot #:	65H5021
Vendor Catalog #:			

Comments

Neat, Purity @ 90-95%. (ARI#: 0466)

Analyte	CAS Number	Concentration	Units
2,4-Dinitrophenol	51-28-5	1000000	ug/mL

B001941
SVOA 2,4-Dinitrophenol
Expires 12/31/2029
Prepared By Jianqing Zhou 9/25/2013

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: 2,4-Dinitrophenol

Manufacturer: Sigma

Product #: _____

Lot #: bFH 502 1

Purity: 90 ~ 94%

Analyst: _____

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001945

Printed: 9/25/2013 3:23:22PM

Description:	SVOC Benzoic Acid	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 15:23 by JZ
Vendor:	ACROS Organics	Lot #:	A0224339
Vendor Catalog #:			

Comments

Neat, Purity @ 98%.

Analyte	CAS Number	Concentration	Units
Benzoic acid	65-85-0	1000000	ug/mL

B001945
SVOC Benzoic Acid
Expires 12/31/2029
Prepared By Jianqing Zhou 12/31/2012

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Benzoic Acid

Manufacturer: Acros Organics

Product #: _____

Lot #: A0214339

Purity: 98%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001948

Printed: 9/25/2013 3:37:51PM

Description:	SVOC 4,6-Dinitro-2-Methylphenol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	25-Sep-13
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 15:37 by JZ
Vendor:	Chem Service	Lot #:	179-31A
Vendor Catalog #:			

Comments

Neat, Purity @ 99%. (ARI#: 009A)

Analyte	CAS Number	Concentration	Units
4,6-Dinitro-2-methylphenol	534-52-1	1000000	ug/mL

B001948
SVOA 4,6-Dinitro-2-Methylphenol
Expires 12/31/2029
Prepared By Jianqing Zhou 9/25/2013

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: 4,6-Dinitro-2-Methylphenol

Manufacturer: Chem Service

Product #: _____

Lot #: 179-31A

Purity: 99%

Analyst: KB

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B002054

Printed: 10/4/2013 6:32:21PM

Description:	SVOA 1-Methylnaphthalene	Expires:	02-Apr-14
Standard Type:	Analyte Spike	Prepared:	13-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	04-Oct-13 18:32 by JZ
Vendor:	Chem Service	Lot #:	62-5B
Vendor Catalog #:			

Comments

Neat, Purity @ 99%

Analyte	CAS Number	Concentration	Units
1-Methylnaphthalene	90-12-0	1000000	ug/mL

B002054
SVOA 1-Methylnaphthalene
Solvent / Lot: NA
Prep: 12/13/2012 by JZ
Exp: 12/31/2029
Location:

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: 1-Methyl naphthalene

Manufacturer: Chem Service

Product #: 0787

Lot #: 67-53

Purity: 99%

Analyst: AZ

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B002135

Printed: 10/15/2013 12:07:39PM

Description:	SVOA Benzidine	Expires:	31-Dec-29
Standard Type:	Analyte Spike	Prepared:	15-Oct-13
Solvent:	N/A	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	15-Oct-13 12:07 by JZ
Vendor:	SIGMA	Lot #:	18C0024
Vendor Catalog #:			

Comments

Purity @ 95%. ARI#: 0467.

Analyte	CAS Number	Concentration	Units
Benzidine	92-87-5	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Benzidine

Manufacturer: Sigma

Product #: B-3503

Lot #: 18C0024

Purity: 98%

Analyst: [signature]

Certificate of Analysis

Product Name:	1,2,4,5-Tetrachlorobenzene
Product Description:	98%
Product Brand:	Sigma-Aldrich
Product Number:	131857
Molecular Weight:	215.89
CAS Number:	95-94-3

TEST	SPECIFICATION	LOT 19309JR RESULTS
APPEARANCE	WHITE POWDER, CHIPS OR CRYSTALS	WHITE CHIPS
INFRARED SPECTRUM	CONFORMS TO STRUCTURE.	CONFORMS TO STRUCTURE AND STANDARD AS
** **		ILLUSTRATED ON PAGE 1011C OF EDITION I,
** **		VOLUME 1 OF "THE ALDRICH LIBRARY OF FT-IR
** **		SPECTRA".
GAS LIQUID	97.5% (MINIMUM)	99.9 %
QUALITY CONTROL		JULY 1997

Barbara Rajzer, Supervisor
Quality Control
Milwaukee, Wisconsin USA

F009172
SVOC 1,2,4,5-Tetrachlorobenzene
Expires 12/31/2079
Prepared By Joshua Rains 10/6/2017

H000691

Data File: \\target\share\chem2\fid4a.i\20230317.b\423C1703.D

Page 1

Date : 17-MAR-2023 10:46

Client ID:

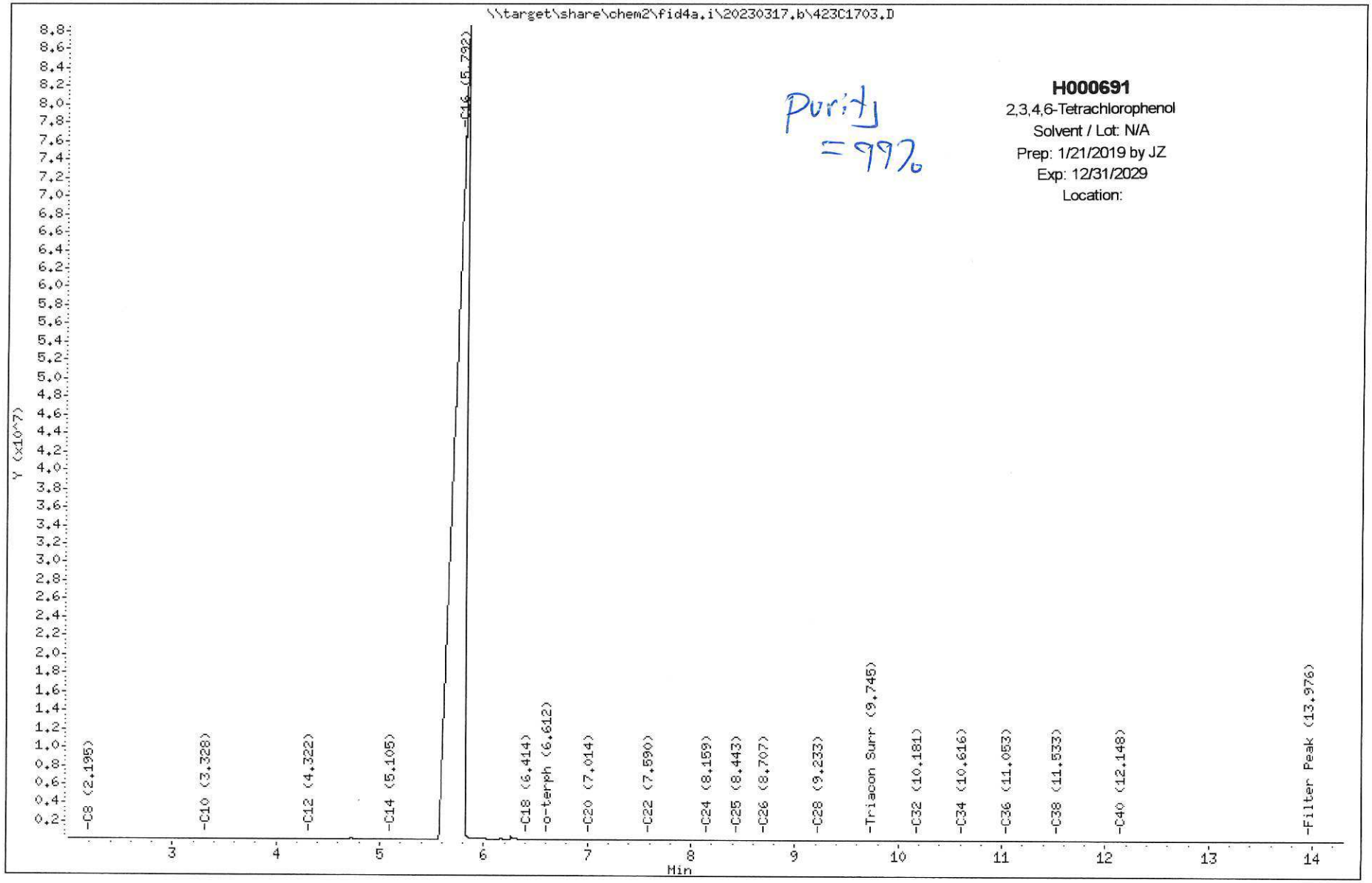
Instrument: fid4a.i

Sample Info: K007226

Operator: AA

Column phase: RTX-1

Column diameter: 0.25



Purity = 99%

H000691
2,3,4,6-Tetrachlorophenol
Solvent / Lot: N/A
Prep: 1/21/2019 by JZ
Exp: 12/31/2029
Location:

ARI Labs, Inc.

Data file : \\target\share\chem2\fid4a.i\20230317.b\423C1703.D
Lab Smp Id: K007226
Inj Date : 17-MAR-2023 10:46
Operator : AA   Inst ID: fid4a.i
Smp Info : K007226
Misc Info :
Comment   :
Method   : \\target\share\chem2\fid4a.i\20230317.b\FID4TPH.m
Meth Date : 17-Mar-2023 16:58 alfonso   Quant Type: AREA%
Cal Date : 18-AUG-2022 11:51   Cal File: 422H1803.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon+   Compound Sublist: tph.sub
Target Version: 4.14
Processing Host: ALFONSO-201901

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable   Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.043	81395	55677	0.684	0.012	1 Toluene
2.074	68503	39991	0.584	0.010	
2.104	85451	37158	0.435	0.012	
2.146	59381	25207	0.424	0.008	
2.181	11414	22862	2.003	0.001	
2.195	34939	23199	0.664	0.005	2 C8
2.218	8679	21808	2.513	0.001	
2.224	21070	21832	1.036	0.003	
2.243	45086	20191	0.448	0.006	
2.286	3130	15677	5.009	0.000	
2.291	12615	15880	1.259	0.001	
2.313	20979	15888	0.757	0.003	
2.333	7621	15373	2.017	0.001	
2.348	31874	17112	0.537	0.004	
2.373	4619	13267	2.872	0.000	
2.380	12003	13446	1.120	0.001	
2.393	10327	13347	1.292	0.001	
2.408	9963	12697	1.274	0.001	
2.446	24366	11882	0.488	0.003	
2.498	24898	10214	0.410	0.003	
2.557	1592	6395	4.017	0.000	
2.570	4427	6384	1.442	0.000	
2.583	4275	6215	1.454	0.000	
2.595	1208	6068	5.024	0.000	
2.602	3076	6230	2.025	0.000	
2.607	1560	6270	4.019	0.000	
2.631	17195	8933	0.520	0.002	
2.654	17386	7637	0.439	0.002	
2.703	4531	5468	1.207	0.000	
2.717	9156	5741	0.627	0.001	
2.740	3955	5045	1.275	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.768	1029	4134	4.017	0.000	
2.771	830	4189	5.050	0.000	
2.778	1924	4438	2.307	0.000	
2.784	5498	4564	0.830	0.000	
2.846	25970	8400	0.323	0.003	
2.880	939	3165	3.370	0.000	
2.884	1885	3183	1.688	0.000	
2.901	4805	3504	0.729	0.000	
2.938	581	1990	3.423	0.000	
2.944	1450	2016	1.390	0.000	
2.955	449	1816	4.043	0.000	
2.967	1234	2009	1.629	0.000	
2.982	712	2087	2.931	0.000	
2.988	1000	2338	2.337	0.000	
3.001	3475	3541	1.019	0.000	
3.018	3528	3705	1.050	0.000	
3.033	983	2521	2.564	0.000	
3.038	1297	2686	2.070	0.000	
3.044	2547	2541	0.997	0.000	
3.069	389	1330	3.418	0.000	
3.078	728	1545	2.123	0.000	
3.085	1244	1637	1.316	0.000	
3.098	1115	1624	1.457	0.000	
3.108	926	1475	1.593	0.000	
3.119	239	1202	5.036	0.000	
3.125	540	1251	2.315	0.000	
3.133	409	1219	2.978	0.000	
3.144	2600	1886	0.725	0.000	
3.165	620	1604	2.588	0.000	
3.173	554	1647	2.972	0.000	
3.192	2423	2273	0.938	0.000	
3.197	582	2418	4.158	0.000	
3.204	1161	2723	2.346	0.000	
3.208	825	2777	3.364	0.000	
3.228	4472	3391	0.758	0.000	
3.246	1586	2676	1.688	0.000	
3.279	1194	2070	1.734	0.000	
3.293	854	1951	2.285	0.000	
3.298	595	2029	3.408	0.000	
3.315	2640	2597	0.984	0.000	
3.320	1015	2542	2.504	0.000	
3.328	1549	2593	1.674	0.000	3 C10
3.338	1314	2533	1.928	0.000	
3.350	523	2159	4.130	0.000	
3.358	1776	2105	1.185	0.000	
3.371	356	1797	5.043	0.000	
3.378	914	1880	2.057	0.000	
3.383	380	1927	5.068	0.000	
3.387	595	2023	3.399	0.000	
3.395	1390	2270	1.633	0.000	
3.405	1490	1994	1.338	0.000	
3.423	690	1601	2.321	0.000	
3.435	821	1554	1.894	0.000	
3.441	387	1583	4.087	0.000	
3.444	401	1625	4.051	0.000	
3.448	403	1636	4.060	0.000	
3.455	1216	1700	1.398	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.478	235	1185	5.047	0.000	
3.482	412	1229	2.986	0.000	
3.488	695	1177	1.694	0.000	
3.501	239	969	4.063	0.000	
3.509	914	1149	1.258	0.000	
3.520	1078	1069	0.992	0.000	
3.540	301	927	3.079	0.000	
3.556	406	849	2.089	0.000	
3.567	370	873	2.359	0.000	
3.572	178	939	5.270	0.000	
3.578	591	1171	1.981	0.000	
3.591	869	1353	1.556	0.000	
3.596	741	1352	1.826	0.000	
3.606	471	1401	2.976	0.000	
3.613	548	1411	2.577	0.000	
3.618	433	1521	3.511	0.000	
3.625	710	1635	2.303	0.000	
3.630	910	1667	1.832	0.000	
3.652	661	1562	2.362	0.000	
3.670	462	1214	2.627	0.000	
3.686	1036	1453	1.403	0.000	
3.690	829	1374	1.658	0.000	
3.702	531	1191	2.241	0.000	
3.712	452	1355	3.001	0.000	
3.716	820	1423	1.736	0.000	
3.736	2685	2093	0.780	0.000	
3.752	689	2030	2.946	0.000	
3.760	4109	2349	0.572	0.000	
3.805	3183	2036	0.640	0.000	
3.823	496	1686	3.401	0.000	
3.835	1641	2314	1.410	0.000	
3.859	9243	4616	0.499	0.001	
3.897	851	1745	2.051	0.000	
3.904	503	1721	3.419	0.000	
3.927	3866	3293	0.852	0.000	
3.941	5520	3558	0.645	0.000	
3.980	573	1715	2.991	0.000	
3.992	1027	1794	1.748	0.000	
3.995	1494	1860	1.245	0.000	
4.010	887	1639	1.847	0.000	
4.021	663	1724	2.602	0.000	
4.026	1380	1776	1.287	0.000	
4.045	306	1546	5.059	0.000	
4.053	1001	1758	1.757	0.000	
4.061	1137	1804	1.586	0.000	
4.072	779	1773	2.275	0.000	
4.080	989	1896	1.917	0.000	
4.087	561	1905	3.396	0.000	
4.098	1956	2156	1.103	0.000	
4.106	1168	2044	1.750	0.000	
4.127	1049	1627	1.551	0.000	
4.142	587	1545	2.633	0.000	
4.148	1155	1572	1.361	0.000	
4.173	3682	2398	0.651	0.000	
4.189	1023	1738	1.700	0.000	
4.204	549	1627	2.961	0.000	
4.213	628	1658	2.641	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.221	1039	1830	1.761	0.000	
4.227	447	1814	4.058	0.000	
4.248	2703	2638	0.976	0.000	
4.256	1387	2945	2.123	0.000	
4.260	743	2988	4.022	0.000	
4.265	912	3081	3.378	0.000	
4.268	779	3140	4.031	0.000	
4.275	1736	3217	1.853	0.000	
4.289	2688	3495	1.300	0.000	
4.295	3466	3448	0.995	0.000	
4.322	1054	2680	2.543	0.000	4 C12
4.330	1686	2627	1.558	0.000	
4.358	1066	1974	1.852	0.000	
4.378	434	1758	4.054	0.000	
4.384	1324	1879	1.419	0.000	
4.403	860	1608	1.869	0.000	
4.414	457	1567	3.431	0.000	
4.421	1117	1675	1.499	0.000	
4.433	910	1538	1.690	0.000	
4.439	865	1534	1.774	0.000	
4.449	764	1302	1.705	0.000	
4.471	433	1123	2.593	0.000	
4.476	734	1135	1.546	0.000	
4.490	385	1005	2.610	0.000	
4.498	555	1186	2.137	0.000	
4.502	695	1166	1.677	0.000	
4.518	587	949	1.618	0.000	
4.526	316	925	2.924	0.000	
4.533	560	989	1.765	0.000	
4.543	469	1001	2.135	0.000	
4.548	222	916	4.130	0.000	
4.553	188	980	5.207	0.000	
4.558	255	1038	4.076	0.000	
4.568	652	1157	1.775	0.000	
4.573	338	1151	3.409	0.000	
4.580	487	1283	2.636	0.000	
4.596	3801	1950	0.513	0.000	
4.631	531	1429	2.692	0.000	
4.663	4548	3737	0.822	0.000	
4.667	2815	3822	1.358	0.000	
4.679	2199	3760	1.710	0.000	
4.688	1068	3585	3.356	0.000	
4.694	2166	3742	1.727	0.000	
4.723	372603	172476	0.463	0.055	
4.894	47034	21828	0.464	0.006	
4.956	80510	28154	0.350	0.011	
4.999	54273	16950	0.312	0.008	
5.068	1137	5713	5.027	0.000	
5.072	8415	5792	0.688	0.001	
5.105	4203	4316	1.027	0.000	5 C14
5.146	660	2685	4.070	0.000	
5.153	2524	2649	1.050	0.000	
5.170	1076	2437	2.265	0.000	
5.174	2371	2438	1.028	0.000	
5.201	1013	2011	1.986	0.000	
5.210	2064	2332	1.130	0.000	
5.224	1083	2304	2.127	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.228	2027	2354	1.162	0.000	
5.276	4673	2682	0.574	0.000	
5.322	195	844	4.328	0.000	
5.331	977	1203	1.231	0.000	
5.356	490	993	2.027	0.000	
5.361	814	1044	1.283	0.000	
5.382	115	387	3.351	0.000	
5.399	619	960	1.551	0.000	
5.406	402	1035	2.576	0.000	
5.410	378	1122	2.968	0.000	
5.423	1663	1555	0.935	0.000	
5.452	5951	5020	0.844	0.000	
5.501	290	797	2.753	0.000	
5.523	2317	2472	1.067	0.000	
5.538	5946	6823	1.147	0.000	
5.792	501855376	76456669	0.152	74.449	6 C16
5.807	79757019	82319946	1.032	11.775	
5.823	77929961	88539160	1.136	11.505	
5.962	75333	84828	1.126	0.011	
5.986	474748	124326	0.262	0.070	
6.070	17103	57180	3.343	0.002	
6.074	120761	57565	0.477	0.017	
6.113	90233	47140	0.522	0.013	
6.165	407438	218439	0.536	0.060	
6.263	944101	374166	0.396	0.139	
6.414	114839	39498	0.344	0.016	7 C18
6.464	53190	31177	0.586	0.007	
6.523	31509	25870	0.821	0.004	
6.551	4785	23963	5.008	0.000	
6.559	51194	25409	0.496	0.007	
6.590	21354	21666	1.015	0.003	
6.612	35061	21127	0.603	0.005	$ 8 o-terph
6.638	17712	19934	1.125	0.002	
6.672	22159	19651	0.887	0.003	
6.683	26846	19268	0.718	0.003	
6.708	5413	18142	3.351	0.000	
6.713	24941	18247	0.732	0.003	
6.747	50657	18478	0.365	0.007	
6.795	23973	17444	0.728	0.003	
6.814	28457	17895	0.629	0.004	
6.837	10746	15445	1.437	0.001	
6.871	29974	21406	0.714	0.004	
6.874	4287	21471	5.009	0.000	
6.882	20520	21675	1.056	0.003	
6.944	32864	17445	0.531	0.004	
6.978	9138	15347	1.679	0.001	
7.014	4130	13830	3.348	0.000	9 C20
7.025	12567	14083	1.121	0.001	
7.038	4952	14274	2.882	0.000	
7.044	6508	14578	2.240	0.000	
7.050	25344	14736	0.581	0.003	
7.099	5531	12365	2.236	0.000	
7.108	16440	12371	0.752	0.002	
7.129	9415	11275	1.198	0.001	
7.175	3589	10327	2.878	0.000	
7.182	7285	10474	1.438	0.001	
7.212	11252	10002	0.889	0.001	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.227	5193	9506	1.830	0.000	
7.237	5172	9476	1.832	0.000	
7.247	4652	9357	2.011	0.000	
7.254	3258	9369	2.875	0.000	
7.259	7003	9455	1.350	0.001	
7.272	5540	9252	1.670	0.000	
7.283	4511	9087	2.014	0.000	
7.296	5828	9031	1.550	0.000	
7.308	4850	8866	1.828	0.000	
7.318	3111	9014	2.897	0.000	
7.324	3191	9168	2.873	0.000	
7.328	2775	9325	3.360	0.000	
7.339	6190	9713	1.569	0.000	
7.344	2920	9761	3.343	0.000	
7.350	17091	9874	0.578	0.002	
7.379	7217	8616	1.194	0.001	
7.395	5430	8408	1.548	0.000	
7.404	2492	8342	3.348	0.000	
7.409	1666	8354	5.014	0.000	
7.415	2955	8500	2.877	0.000	
7.423	3887	8782	2.259	0.000	
7.465	28160	14253	0.506	0.004	
7.471	6466	14499	2.242	0.000	
7.480	6649	15111	2.273	0.000	
7.484	26595	15197	0.571	0.003	
7.514	13964	13621	0.975	0.002	
7.539	8118	12614	1.554	0.001	
7.553	10540	12495	1.185	0.001	
7.584	2820	11307	4.010	0.000	
7.590	4522	11429	2.527	0.000	10 C22
7.620	16634	10435	0.627	0.002	
7.653	6793	9783	1.440	0.001	
7.663	8606	9666	1.123	0.001	
7.675	2827	9464	3.347	0.000	
7.683	9373	9620	1.026	0.001	
7.699	3657	9205	2.517	0.000	
7.708	5071	9290	1.832	0.000	
7.713	10483	9274	0.885	0.001	
7.735	10686	9257	0.866	0.001	
7.752	4732	8664	1.831	0.000	
7.765	5624	8765	1.558	0.000	
7.773	5614	8686	1.547	0.000	
7.784	3375	8506	2.520	0.000	
7.793	2118	8517	4.021	0.000	
7.799	10086	8544	0.847	0.001	
7.817	7761	8325	1.073	0.001	
7.833	2415	8088	3.350	0.000	
7.838	2838	8160	2.875	0.000	
7.844	3649	8173	2.240	0.000	
7.858	2009	8069	4.017	0.000	
7.864	4482	8197	1.829	0.000	
7.871	3688	8223	2.230	0.000	
7.879	4875	8269	1.696	0.000	
7.889	2009	8061	4.013	0.000	
7.897	4080	8308	2.036	0.000	
7.916	17828	10103	0.567	0.002	
7.935	4052	9086	2.242	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.940	2229	8948	4.015	0.000	
7.945	5765	8973	1.556	0.000	
7.954	6458	8765	1.357	0.000	
7.976	2099	8428	4.016	0.000	
7.984	10213	8807	0.862	0.001	
7.999	4897	8282	1.691	0.000	
8.013	8782	8112	0.924	0.001	
8.028	5860	7858	1.341	0.000	
8.040	3929	7871	2.003	0.000	
8.054	9161	8146	0.889	0.001	
8.067	2701	7766	2.876	0.000	
8.074	3069	7702	2.510	0.000	
8.081	2694	7742	2.874	0.000	
8.088	2705	7793	2.881	0.000	
8.095	5842	7832	1.341	0.000	
8.104	5419	7841	1.447	0.000	
8.119	5740	7735	1.348	0.000	
8.134	4986	7768	1.558	0.000	
8.141	5893	8009	1.359	0.000	
8.159	9098	8027	0.882	0.001	11 C24
8.174	3156	7971	2.526	0.000	
8.185	2376	7967	3.353	0.000	
8.190	4739	7937	1.675	0.000	
8.202	5181	8028	1.549	0.000	
8.212	1994	8027	4.025	0.000	
8.223	6137	8270	1.348	0.000	
8.236	6864	8171	1.190	0.001	
8.248	2383	7986	3.351	0.000	
8.253	2405	8059	3.351	0.000	
8.259	5294	8207	1.550	0.000	
8.268	2866	8235	2.874	0.000	
8.280	6583	8312	1.263	0.000	
8.289	4538	8296	1.828	0.000	
8.295	2060	8300	4.029	0.000	
8.300	2063	8291	4.020	0.000	
8.313	7062	8400	1.189	0.001	
8.318	1667	8375	5.023	0.000	
8.332	11362	9100	0.801	0.001	
8.343	4357	8741	2.006	0.000	
8.358	1267	8458	6.676	0.000	
8.363	2991	8621	2.882	0.000	
8.371	3980	8983	2.257	0.000	
8.379	6330	9083	1.435	0.000	
8.385	3111	8963	2.881	0.000	
8.393	6706	9050	1.349	0.000	
8.404	4903	8943	1.824	0.000	
8.417	8437	8972	1.063	0.001	
8.438	7166	9103	1.270	0.001	
8.443	3211	9227	2.873	0.000	12 C25
8.450	3688	9295	2.521	0.000	
8.455	2313	9276	4.010	0.000	
8.475	30054	13714	0.456	0.004	
8.504	5760	9733	1.690	0.000	
8.519	2799	9376	3.350	0.000	
8.529	4766	9710	2.037	0.000	
8.537	4875	9815	2.013	0.000	
8.543	8411	9973	1.186	0.001	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.555	2969	9916	3.340	0.000	
8.560	3974	9987	2.513	0.000	
8.568	2483	9997	4.026	0.000	
8.572	5007	10043	2.006	0.000	
8.591	14074	10725	0.762	0.002	
8.602	2648	10665	4.028	0.000	
8.606	2159	10862	5.032	0.000	
8.609	2183	10952	5.017	0.000	
8.633	7361	10561	1.435	0.001	
8.647	6774	10495	1.549	0.001	
8.658	2596	10420	4.014	0.000	
8.663	4723	10573	2.239	0.000	
8.669	3156	10589	3.355	0.000	
8.687	15405	11334	0.736	0.002	
8.699	6103	11158	1.828	0.000	
8.707	2223	11136	5.009	0.000	13 C26
8.730	28697	12536	0.437	0.004	
8.754	8658	11553	1.334	0.001	
8.763	2896	11612	4.010	0.000	
8.780	15029	12352	0.822	0.002	
8.788	1833	12243	6.680	0.000	
8.798	11854	12679	1.070	0.001	
8.806	1873	12509	6.677	0.000	
8.809	3133	12565	4.011	0.000	
8.813	2506	12550	5.008	0.000	
8.819	7588	12757	1.681	0.001	
8.829	4418	12679	2.870	0.000	
8.835	6988	12762	1.826	0.001	
8.848	13711	13258	0.967	0.002	
8.872	26625	13656	0.513	0.003	
8.894	4575	13127	2.869	0.000	
8.898	2631	13188	5.013	0.000	
8.902	5918	13262	2.241	0.000	
8.914	8577	13313	1.552	0.001	
8.922	4011	13433	3.349	0.000	
8.926	4724	13546	2.867	0.000	
8.933	6787	13651	2.011	0.001	
8.946	9614	13923	1.448	0.001	
8.951	6274	14004	2.232	0.000	
8.960	5592	14036	2.510	0.000	
8.966	3513	14090	4.011	0.000	
8.969	2829	14171	5.009	0.000	
8.973	4976	14233	2.860	0.000	
8.980	4289	14365	3.350	0.000	
8.996	27708	16441	0.593	0.004	
9.013	8129	14847	1.827	0.001	
9.025	8129	14840	1.826	0.001	
9.036	7503	15229	2.030	0.001	
9.040	4559	15225	3.340	0.000	
9.057	14920	16251	1.089	0.002	
9.067	9915	16831	1.698	0.001	
9.076	8535	17331	2.031	0.001	
9.081	5250	17596	3.352	0.000	
9.084	10558	17675	1.674	0.001	
9.095	4386	17601	4.013	0.000	
9.111	30564	19262	0.630	0.004	
9.128	8346	18722	2.243	0.001	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.139	15095	18986	1.258	0.002	
9.149	6655	19050	2.862	0.000	
9.158	23240	19719	0.848	0.003	
9.171	1903	19042	10.005	0.000	
9.175	4773	19156	4.013	0.000	
9.187	23630	19927	0.843	0.003	
9.199	4925	19763	4.013	0.000	
9.208	14115	20394	1.445	0.002	
9.219	12303	20691	1.682	0.001	
9.226	7266	20831	2.867	0.001	
9.233	15622	21000	1.344	0.002	14 C28
9.247	9280	20714	2.232	0.001	
9.262	45057	27849	0.618	0.006	
9.281	22651	23200	1.024	0.003	
9.304	13489	22820	1.692	0.001	
9.307	18038	22862	1.267	0.002	
9.328	8656	21778	2.516	0.001	
9.334	8635	21650	2.507	0.001	
9.343	16240	21738	1.339	0.002	
9.354	5409	21709	4.013	0.000	
9.367	16481	22234	1.349	0.002	
9.370	6683	22346	3.344	0.000	
9.382	14775	23166	1.568	0.002	
9.390	11679	23531	2.015	0.001	
9.394	12888	23584	1.830	0.001	
9.408	18752	23645	1.261	0.002	
9.416	4675	23396	5.004	0.000	
9.428	25138	24392	0.970	0.003	
9.438	20233	24095	1.191	0.002	
9.468	67429	26696	0.396	0.009	
9.496	8413	24122	2.867	0.001	
9.507	12049	24259	2.013	0.001	
9.527	36362	25771	0.709	0.005	
9.538	12891	25911	2.010	0.001	
9.543	6452	25853	4.007	0.000	
9.551	10420	26202	2.515	0.001	
9.557	29750	26593	0.894	0.004	
9.574	6252	25071	4.010	0.000	
9.593	29143	27655	0.949	0.004	
9.599	40783	27905	0.684	0.006	
9.620	13159	26364	2.004	0.001	
9.632	17259	26799	1.553	0.002	
9.640	13210	26592	2.013	0.001	
9.664	35362	28170	0.797	0.005	
9.672	27890	28134	1.009	0.004	
9.696	26737	28634	1.071	0.003	
9.711	53475	30848	0.577	0.007	
9.745	33266	29504	0.887	0.004	$ 15 Triacon Surr
9.752	7348	29501	4.015	0.001	
9.756	20542	29565	1.439	0.003	
9.768	7255	29059	4.005	0.001	
9.773	7275	29173	4.010	0.001	
9.785	31543	30611	0.970	0.004	
9.803	46804	32832	0.701	0.006	
9.821	10456	30060	2.875	0.001	
9.833	30772	31156	1.012	0.004	
9.860	77784	33514	0.431	0.011	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.881	12779	32069	2.510	0.001	
9.892	14531	32668	2.248	0.002	
9.896	8201	32902	4.012	0.001	
9.908	23357	33882	1.451	0.003	
9.912	27050	34095	1.260	0.003	
9.939	14585	32570	2.233	0.002	
9.951	23032	33095	1.437	0.003	
9.956	11596	33292	2.871	0.001	
9.966	16544	33271	2.011	0.002	
9.971	11660	33391	2.864	0.001	
9.975	10051	33617	3.345	0.001	
9.983	15209	33983	2.234	0.002	
9.988	15177	33830	2.229	0.002	
9.996	10128	33907	3.348	0.001	
10.018	43348	35629	0.822	0.006	
10.021	7133	35693	5.004	0.001	
10.025	8960	35988	4.016	0.001	
10.034	42064	36944	0.878	0.006	
10.063	65447	38699	0.591	0.009	
10.077	7375	36906	5.004	0.001	
10.083	16743	37428	2.235	0.002	
10.095	34467	38665	1.122	0.005	
10.118	90921	40621	0.447	0.013	
10.151	37738	38047	1.008	0.005	
10.158	11383	38037	3.342	0.001	
10.168	36074	38274	1.061	0.005	
10.181	15072	37809	2.509	0.002	16 C32
10.185	5655	37746	6.675	0.000	
10.198	43905	38471	0.876	0.006	
10.208	24771	38177	1.541	0.003	
10.218	19031	38113	2.003	0.002	
10.228	13353	38279	2.867	0.001	
10.237	21225	38826	1.829	0.003	
10.243	30946	38929	1.258	0.004	
10.266	43064	39733	0.923	0.006	
10.275	11912	39784	3.340	0.001	
10.278	19932	39886	2.001	0.002	
10.293	46366	40725	0.878	0.006	
10.318	46465	41024	0.883	0.006	
10.328	24720	41353	1.673	0.003	
10.334	10308	41278	4.005	0.001	
10.343	29100	41866	1.439	0.004	
10.354	22822	41695	1.827	0.003	
10.360	16568	41490	2.504	0.002	
10.376	31388	42321	1.348	0.004	
10.384	36478	43119	1.182	0.005	
10.393	21427	43144	2.014	0.003	
10.416	82339	44731	0.543	0.012	
10.434	23173	42257	1.824	0.003	
10.455	42801	43684	1.021	0.006	
10.459	19648	44004	2.240	0.002	
10.469	19632	43883	2.235	0.002	
10.492	56113	45807	0.816	0.008	
10.497	20626	45915	2.226	0.003	
10.503	27439	45837	1.671	0.004	
10.513	31833	45842	1.440	0.004	
10.523	6773	45190	6.672	0.001	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
10.529	22697	45513	2.005	0.003	
10.543	39087	46432	1.188	0.005	
10.552	16284	46719	2.869	0.002	
10.558	18796	47158	2.509	0.002	
10.576	69878	48769	0.698	0.010	
10.586	12085	48384	4.004	0.001	
10.592	21757	48469	2.228	0.003	
10.609	46960	50482	1.075	0.006	
10.616	40486	50812	1.255	0.005	17 C34
10.628	52392	50284	0.960	0.007	
10.665	99744	52644	0.528	0.014	
10.680	20832	52264	2.509	0.003	
10.699	126137	55939	0.443	0.018	
10.723	18258	52316	2.865	0.002	
10.733	65550	52928	0.807	0.009	
10.751	49102	51903	1.057	0.007	
10.765	10288	51490	5.005	0.001	
10.777	73220	52877	0.722	0.010	
10.791	15621	52150	3.338	0.002	
10.799	46819	52190	1.115	0.006	
10.817	52000	52328	1.006	0.007	
10.828	13014	52167	4.008	0.001	
10.833	18275	52280	2.861	0.002	
10.838	67284	52271	0.777	0.009	
10.860	15395	51401	3.339	0.002	
10.867	15366	51252	3.335	0.002	
10.874	25712	51608	2.007	0.003	
10.885	59363	52064	0.877	0.008	
10.901	33199	51247	1.544	0.004	
10.911	35859	51446	1.435	0.005	
10.925	15150	50526	3.335	0.002	
10.936	27761	50508	1.819	0.004	
10.954	40634	51235	1.261	0.005	
10.958	17973	51428	2.861	0.002	
10.982	101216	54997	0.543	0.014	
10.999	80380	54264	0.675	0.011	
11.022	15822	52869	3.342	0.002	
11.029	23878	53171	2.227	0.003	
11.032	23908	53219	2.226	0.003	
11.044	39793	53228	1.338	0.005	
11.053	13218	52959	4.007	0.001	19 C36
11.057	26491	53088	2.004	0.003	
11.069	47933	53454	1.115	0.007	
11.079	78088	52997	0.679	0.011	
11.132	4853	48537	10.002	0.000	
11.138	21933	48845	2.227	0.003	
11.148	46678	49317	1.057	0.006	
11.158	12248	49060	4.006	0.001	
11.164	14711	49102	3.338	0.002	
11.179	64473	49939	0.775	0.009	
11.192	19751	49439	2.503	0.002	
11.197	14848	49541	3.337	0.002	
11.202	17336	49566	2.859	0.002	
11.206	12400	49639	4.003	0.001	
11.212	56808	49881	0.878	0.008	
11.230	26830	48794	1.819	0.003	
11.263	19014	47590	2.503	0.002	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
11.267	11927	47790	4.007	0.001	
11.285	66432	50042	0.753	0.009	
11.308	17214	49235	2.860	0.002	
11.312	19684	49285	2.504	0.002	
11.322	19740	49570	2.511	0.002	
11.331	27467	50208	1.828	0.004	
11.334	12565	50301	4.003	0.001	
11.338	17617	50367	2.859	0.002	
11.356	50450	50688	1.005	0.007	
11.383	31641	48774	1.541	0.004	
11.392	14562	48589	3.337	0.002	
11.398	14566	48593	3.336	0.002	
11.405	21947	48858	2.226	0.003	
11.418	36961	49602	1.342	0.005	
11.428	52174	49838	0.955	0.007	
11.438	46900	49605	1.058	0.006	
11.456	66003	49218	0.746	0.009	
11.481	84312	48818	0.579	0.012	
11.518	39837	46996	1.180	0.005	
11.533	55836	46822	0.839	0.008	20 C38
11.560	30101	46465	1.544	0.004	
11.568	20916	46512	2.224	0.003	
11.573	11637	46596	4.004	0.001	
11.579	23274	46598	2.002	0.003	
11.586	13953	46531	3.335	0.002	
11.591	9318	46631	5.004	0.001	
11.623	97892	48831	0.499	0.014	
11.631	17107	48984	2.863	0.002	
11.638	22090	49260	2.230	0.003	
11.642	32050	49351	1.540	0.004	
11.669	95446	50981	0.534	0.014	
11.685	95822	49865	0.520	0.014	
11.788	8918	44609	5.002	0.001	
11.791	35704	44768	1.254	0.005	
11.804	11082	44350	4.002	0.001	
11.813	22172	44403	2.003	0.003	
11.823	19993	44543	2.228	0.002	
11.829	13395	44754	3.341	0.001	
11.837	20184	44981	2.228	0.002	
11.852	26933	44942	1.669	0.003	
11.866	36041	45224	1.255	0.005	
11.877	15835	45355	2.864	0.002	
11.883	18222	45726	2.509	0.002	
11.889	15985	45741	2.861	0.002	
11.896	20679	46117	2.230	0.003	
11.905	23259	46896	2.016	0.003	
11.929	70146	49826	0.710	0.010	
11.936	52288	50085	0.958	0.007	
11.951	14787	49369	3.339	0.002	
11.957	17313	49595	2.865	0.002	
11.961	32199	49647	1.542	0.004	
11.971	19578	49063	2.506	0.002	
11.980	34244	49065	1.433	0.005	
12.019	96987	51133	0.527	0.014	
12.025	48685	51499	1.058	0.007	
12.053	38386	51386	1.339	0.005	
12.062	38575	51549	1.336	0.005	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
12.070	17923	51300	2.862	0.002	
12.078	45780	51141	1.117	0.006	
12.105	31495	48817	1.550	0.004	
12.118	85510	48295	0.565	0.012	
12.148	55474	46657	0.841	0.008	21 C40
12.172	34299	45899	1.338	0.005	
12.181	18286	45754	2.502	0.002	
12.188	20565	45727	2.223	0.003	
12.198	29701	45787	1.542	0.004	
12.212	11377	45530	4.002	0.001	
12.218	29576	45566	1.541	0.004	
12.237	41054	45750	1.114	0.006	
12.243	13695	45701	3.337	0.002	
12.253	27528	46122	1.675	0.004	
12.260	16149	46201	2.861	0.002	
12.272	32473	46571	1.434	0.004	
12.347	231342	54259	0.235	0.034	
12.355	96470	54322	0.563	0.014	
12.383	13155	52687	4.005	0.001	
12.389	52817	52930	1.002	0.007	
12.434	117936	55204	0.468	0.017	
12.440	19323	55283	2.861	0.002	
12.448	22049	55156	2.502	0.003	
12.460	127044	56114	0.442	0.018	
12.500	63536	55700	0.877	0.009	
12.519	44746	56237	1.257	0.006	
12.523	16928	56556	3.341	0.002	
12.528	14154	56666	4.003	0.002	
12.532	14154	56644	4.002	0.002	
12.538	25607	57089	2.229	0.003	
12.543	31284	57010	1.822	0.004	
12.560	76588	57084	0.745	0.011	
12.574	22463	56167	2.500	0.003	
12.583	192414	56305	0.293	0.028	
12.668	201456	54098	0.269	0.029	
12.722	63529	49368	0.777	0.009	
12.744	14574	48683	3.340	0.002	
12.757	68233	49046	0.719	0.010	
12.777	29106	48653	1.672	0.004	
12.802	69072	49884	0.722	0.010	
12.805	19947	49915	2.502	0.002	
12.813	12457	49907	4.006	0.001	
12.826	42860	50672	1.182	0.006	
12.830	15192	50711	3.338	0.002	
12.835	63121	50727	0.804	0.009	
12.856	30109	50299	1.671	0.004	
12.871	12459	49875	4.003	0.001	
12.876	24950	49913	2.001	0.003	
12.883	12458	49860	4.002	0.001	
12.892	24999	50091	2.004	0.003	
12.904	37682	50442	1.339	0.005	
12.918	60965	51059	0.838	0.009	
12.929	15268	50972	3.338	0.002	
12.950	101236	52476	0.518	0.014	
12.991	32619	50285	1.542	0.004	
13.030	23826	47690	2.002	0.003	
13.047	49429	47410	0.959	0.007	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
13.072	11668	46709	4.003	0.001	
13.077	14056	46964	3.341	0.002	
13.083	21201	47214	2.227	0.003	
13.092	45034	47490	1.055	0.006	
13.103	33139	47401	1.430	0.004	
13.119	58622	47300	0.807	0.008	
13.136	61979	46406	0.749	0.009	
13.163	36232	45399	1.253	0.005	
13.172	13552	45219	3.337	0.002	
13.178	13550	45211	3.337	0.002	
13.183	13581	45318	3.337	0.002	
13.188	15867	45365	2.859	0.002	
13.193	11350	45433	4.003	0.001	
13.206	54879	45909	0.837	0.008	
13.233	74220	46899	0.632	0.010	
13.246	18724	46923	2.506	0.002	
13.250	14089	47028	3.338	0.002	
13.254	9392	46999	5.004	0.001	
13.261	35241	47103	1.337	0.005	
13.270	21093	46884	2.223	0.003	
13.278	16404	46889	2.858	0.002	
13.284	28108	46937	1.670	0.004	
13.309	27777	46575	1.677	0.004	
13.313	11643	46617	4.004	0.001	
13.323	30391	46938	1.544	0.004	
13.337	49696	47554	0.957	0.007	
13.345	11906	47686	4.005	0.001	
13.352	21499	47921	2.229	0.003	
13.358	14416	48133	3.339	0.002	
13.366	24163	48487	2.007	0.003	
13.391	108474	49842	0.459	0.016	
13.411	39818	49922	1.254	0.005	
13.421	140245	49882	0.356	0.020	
13.468	75433	46221	0.613	0.011	
13.519	59701	44435	0.744	0.008	
13.538	26345	44021	1.671	0.003	
13.553	17475	43727	2.502	0.002	
13.559	19699	43828	2.225	0.002	
13.566	15324	43832	2.860	0.002	
13.574	28519	43956	1.541	0.004	
13.585	21950	43943	2.002	0.003	
13.595	26497	44341	1.673	0.003	
13.603	22230	44574	2.005	0.003	
13.608	11135	44585	4.004	0.001	
13.633	100703	46371	0.460	0.014	
13.650	25255	45974	1.820	0.003	
13.663	20511	45675	2.227	0.003	
13.670	15945	45584	2.859	0.002	
13.677	40973	45642	1.114	0.006	
13.688	4544	45448	10.002	0.000	
13.693	29520	45508	1.542	0.004	
13.718	24720	44995	1.820	0.003	
13.727	11216	44890	4.002	0.001	
13.735	29185	45025	1.543	0.004	
13.752	17874	44782	2.505	0.002	
13.767	35874	45020	1.255	0.005	
13.775	36036	45104	1.252	0.005	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
13.785	11226	44939	4.003	0.001	
13.790	47016	44953	0.956	0.006	
13.813	11118	44516	4.004	0.001	
13.818	37641	44507	1.182	0.005	
13.832	15424	44192	2.865	0.002	
13.838	17564	43967	2.503	0.002	
13.844	26339	43892	1.666	0.003	
13.855	30567	43821	1.434	0.004	
13.865	23854	43526	1.825	0.003	
13.882	28266	43639	1.544	0.004	
13.886	30418	43629	1.434	0.004	
13.901	34702	43472	1.253	0.005	
13.920	48162	44005	0.914	0.007	
13.928	17577	43956	2.501	0.002	
13.941	15410	44084	2.861	0.002	
13.946	11045	44251	4.006	0.001	
13.949	24369	44341	1.820	0.003	
13.959	22103	44264	2.003	0.003	
13.967	22088	44195	2.001	0.003	
13.976	33207	44336	1.335	0.004	18 Filter Peak
13.998	24195	44018	1.819	0.003	
14.007	15335	43888	2.862	0.002	
14.014	17519	43863	2.504	0.002	
14.019	54335	43870	0.807	0.008	
14.046	10722	42915	4.003	0.001	
14.052	19305	42955	2.225	0.002	
14.058	8568	42864	5.003	0.001	
14.067	38739	43159	1.114	0.005	
14.077	15012	42931	2.860	0.002	
14.083	25753	42977	1.669	0.003	
14.102	25682	42913	1.671	0.003	
14.108	19267	42865	2.225	0.002	
14.116	12834	42815	3.336	0.001	
14.126	25874	43369	1.676	0.003	
14.133	56339	43595	0.774	0.008	
14.161	32503	43582	1.341	0.004	
14.165	10909	43696	4.006	0.001	
14.170	15313	43822	2.862	0.002	
14.175	10960	43911	4.007	0.001	
14.178	13176	43945	3.335	0.001	
14.183	19785	43976	2.223	0.002	
14.191	8796	44018	5.005	0.001	
14.197	17636	44177	2.505	0.002	
14.208	28815	44459	1.543	0.004	
14.219	8873	44379	5.002	0.001	
14.223	13318	44445	3.337	0.001	
14.229	28860	44456	1.540	0.004	
14.247	15436	44194	2.863	0.002	
14.260	37147	43758	1.178	0.005	
14.274	45685	43705	0.957	0.006	
	677340272	268782821		100.000	

Total unknown % area = 25.478

Supelco®

www.sigmaaldrich.com

Certificate of Composition - Analytical Standard

ACID STOC"

Product no.: 22523046
Lot no.: LRAC9812
Expiry Date: May 2023
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: Dichloromethane
Certificate version: LRAC9812.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

J005200
SVOA-ABN ACID STOCK-200-800ug/ml
Solvent / Lot: DCM
Prep: 5/18/2021 by JZ
Exp: 5/31/2023
Location:

JZ 5/18/21

Analyte	*Assigned Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
2,4-DIMETHYLPHENOL CAS# 105-67-9	802	µg/mL	99.9	LB88935
2,4-DICHLOROPHENOL CAS# 120-83-2	802	µg/mL	100.0	BCBZ6787
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	802	µg/mL	99.9	JS00008
2,4-DINITROPHENOL CAS# 51-28-5	1806	µg/mL	75.9	MKBP5833V
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	803	µg/mL	98.7	LB82983
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	801	µg/mL	99.9	JS00013
4-NITROPHENOL CAS# 100-02-7	801	µg/mL	99.9	LC10889
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	1804	µg/mL	99.7	LC18338
PENTACHLOROPHENOL CAS# 87-86-5	803	µg/mL	98.7	MKCK8156
BENZOIC ACID CAS# 65-85-0	1805	µg/mL	99.9	LC16514

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
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Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Agilent

Certificate of Analysis

J008074

SVOA PAH STD 2000ug/ml
Expires 6/30/2023
Prepared By Joshua Rains 8/5/2021

Product Name: PAH Standard

Product Number: US-106N-1

Lot Number: 0006540449

Lot Issue Date: 11-Jun-2020

Expiration Date: 30-Jun-2023

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
acenaphthene	000083-32-9	RM10879	2008 ± 10 µg/mL
acenaphthylene	000208-96-8	RM10891	2003 ± 10 µg/mL
anthracene	000120-12-7	RM14212	2006 ± 10 µg/mL
benz[a]anthracene	000056-55-3	RM16072	2006 ± 10 µg/mL
benzo[b]fluoranthene	000205-99-2	RM14571	2005 ± 10 µg/mL
benzo[k]fluoranthene	000207-08-9	RM14321	2009 ± 10 µg/mL
benzo[ghi]perylene	000191-24-2	RM15761	2008 ± 10 µg/mL
benzo[a]pyrene	000050-32-8	RM12669	2009 ± 10 µg/mL
chrysene	000218-01-9	RM12260	2009 ± 10 µg/mL
dibenz[a,h]anthracene	000053-70-3	RM06786	2009 ± 10 µg/mL
fluoranthene	000206-44-0	RM12277	2004 ± 10 µg/mL
fluorene	000086-73-7	RM09441	2009 ± 10 µg/mL
indeno[1,2,3-cd]pyrene	000193-39-5	RM14192	2009 ± 10 µg/mL
naphthalene	000091-20-3	NT00970	2008 ± 10 µg/mL
phenanthrene	000085-01-8	RM10495	2009 ± 10 µg/mL
pyrene	000129-00-0	RM03479	2008 ± 10 µg/mL

Matrix: methylene chloride/benzene (1:1)

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 17025 Cert
No. AT-1937

Certificate of Analysis

Product Number: US-106N-1 **Lot Number:** 0006540449

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026
Page: 2 of 2

www.agilent.com/quality/

ISO 17025 Cert
No. AT-1937

Certificate of Analysis

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL16062
Certification Date: November 19, 2020
Expiration Date: November 30, 2030

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 2.740%
3,3'-Dichlorobenzidine	91-94-1	2000	± 3.229%

J008310
Benzidines std @2000ug/ml
Expires 11/30/2030
Prepared By Van Spohn 8/12/2021

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64691018_us

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

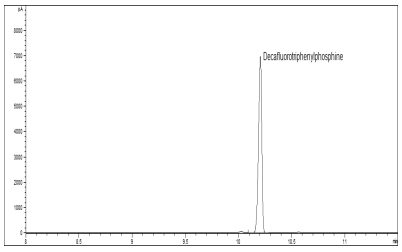
References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Certificate of Analysis - Certified Reference Material

Decafluorotriphenylphosphine solution

Product no.: 48724-U
Lot no.: LRAD0628
Expiry Date: October 2024
Manufacturing Date: September 2021
Storage: ROOM TEMPERATURE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD0628.01 (*Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

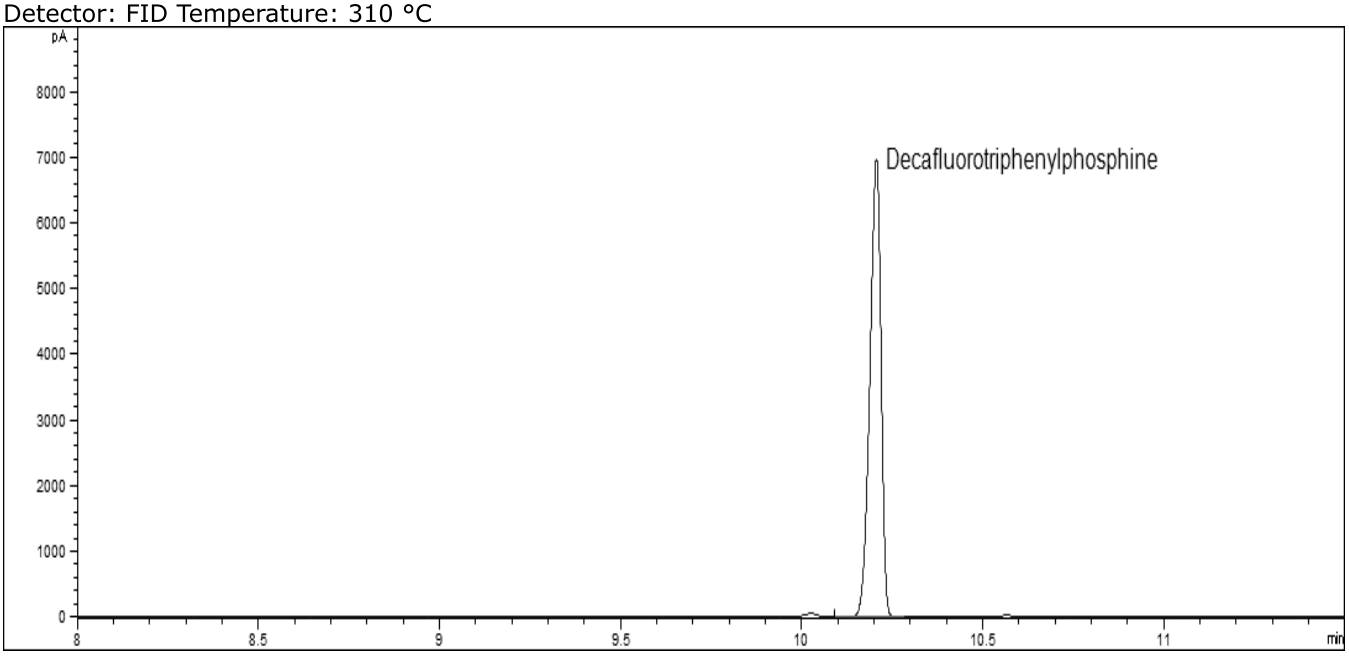


Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
DFTPP CAS# 5074-71-5	25.2 ± 2.6	mg/mL	97.0	10220909

ASSAY Method

METHOD: GC (BELLEFONTE)
Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness
Carrier Gas: H_2 Flow Rate: 4.3 mL/min
Inlet Temperature: 250 °C Injection Volume: 1 µL
Injection Mode: 25:1
Temperature Program: 120 °C (Hold 0 min) @ 12 °C/min to 260 °C (Hold 0 min)
Detector: FID Temperature: 310 °C



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Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Elution details:

EO	RT(MIN)	ANALYTE
1	10.206	Decafluorotriphenylphosphine

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Minimum sample size: 1 µL

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 30-Sep-2021

Andy Ommen - QC Manager

Scott Stetler - QA Manager

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom } ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD0628.01	30-Sep-2021	Original Release Date

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Disclaimer: The purchaser is required to determine the suitability of this product for any particular application. Sigma-Aldrich RTC makes no warranty of any kind, express or implied, other than its products meet all quality control standards set by Sigma-Aldrich RTC. We do not guarantee that the product can be used for any particular application.

Certificate of Analysis

BNAs - Sandy Loam 1

Certified Reference Material

Description

Product ID CRM143-50G
Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Certified Values

Analyte	*Units*	*Certified Value* [1,4]
1,2,4-Trichlorobenzene	µg/Kg	1477 ± 181
1,3-Dichlorobenzene (m-Dichlorobenzene)	µg/Kg	1625 ± 292
1-Chloronaphthalene	µg/Kg	2809 ± 84
2,3-Dimethylphenol	µg/Kg	4552 ± 137
2,4,5-Trichlorophenol	µg/Kg	3438 ± 245
2,4,6-Trichlorophenol	µg/Kg	2194 ± 251
2,4-Dichlorophenol	µg/Kg	6991 ± 394
2,4-Dimethylphenol	µg/Kg	6357 ± 879
2,4-Dinitrophenol	µg/Kg	2922 ± 523
2,4-Dinitrotoluene (2,4-DNT)	µg/Kg	3318 ± 442
2,6-Dichlorophenol	µg/Kg	4578 ± 874
2,6-Dimethylphenol	µg/Kg	7582 ± 228
2-Chloronaphthalene	µg/Kg	2223 ± 168
2-Chlorophenol	µg/Kg	1678 ± 202
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	µg/Kg	5148 ± 685
2-Methylphenol (o-Cresol)	µg/Kg	6004 ± 573
2-Nitrophenol	µg/Kg	6456 ± 383
3,4-Dimethylphenol	µg/Kg	7185 ± 216
3+4-Methylphenol (m+p-Cresol)	µg/Kg	8033 ± 1613
4-Bromophenyl phenyl ether (BDE-3)	µg/Kg	7169 ± 310
4-Chloro-3-methylphenol	µg/Kg	2071 ± 110
4-Chlorophenyl phenylether	µg/Kg	2052 ± 113
4-Methylphenol (p-Cresol)	µg/Kg	6617 ± 1371
4-Nitrophenol	µg/Kg	6812 ± 595
Acenaphthene	µg/Kg	5489 ± 380

Description

Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Acenaphthylene	µg/Kg	1948 ± 240
Anthracene	µg/Kg	2866 ± 237
Benzo(a)anthracene	µg/Kg	5751 ± 552
Benzo(a)pyrene	µg/Kg	5902 ± 612
Benzo(b)fluoranthene	µg/Kg	3010 ± 409
Benzo(b+k)fluoranthene	µg/Kg	6534 ± 196
Benzo(g,h,i)perylene	µg/Kg	1380 ± 136
Benzo(k)fluoranthene	µg/Kg	2215 ± 237
Butyl benzyl phthalate	µg/Kg	3511 ± 384
Carbazole	µg/Kg	5412 ± 407
Chrysene	µg/Kg	1477 ± 72
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	µg/Kg	2905 ± 321
Dibenzo(a,h)anthracene	µg/Kg	3420 ± 302
Dibenzofuran	µg/Kg	6130 ± 253
Dimethyl phthalate	µg/Kg	4537 ± 250
Di-n-butyl phthalate	µg/Kg	1721 ± 154
Di-n-octyl phthalate	µg/Kg	2744 ± 288
Fluoranthene	µg/Kg	2497 ± 222
Fluorene	µg/Kg	3724 ± 222
Hexachlorobutadiene	µg/Kg	1877 ± 245
Indeno(1,2,3-cd) pyrene	µg/Kg	3914 ± 409
Isophorone	µg/Kg	1615 ± 170
Naphthalene	µg/Kg	4458 ± 480
Nitrobenzene	µg/Kg	3539 ± 266
n-Nitrosodimethylamine	µg/Kg	1580 ± 402
n-Nitrosodiphenylamine	µg/Kg	2854 ± 379
Pentachlorophenol	µg/Kg	3411 ± 358
Phenanthrene	µg/Kg	5052 ± 385
Phenol	µg/Kg	2660 ± 184
Pyrene	µg/Kg	2964 ± 256
Pyridine	µg/Kg	1008 ± 30

Informational Values

Certificate of Analysis

BNAs - Sandy Loam 1

Certified Reference Material

Description

Product ID CRM143-50G
Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Analyte	*Units*	*Suggested Acceptance Windows*	*Standard Deviation*
1,2,4-Trichlorobenzene	µg/Kg	148 to 2853	459
1,3-Dichlorobenzene (m-Dichlorobenzene)	µg/Kg	163 to 3440	605
1-Chloronaphthalene	µg/Kg	1123 to 4494	562
2,3-Dimethylphenol	µg/Kg	1821 to 7284	910
2,4,5-Trichlorophenol	µg/Kg	1003 to 5872	811
2,4,6-Trichlorophenol	µg/Kg	640 to 3748	518
2,4-Dichlorophenol	µg/Kg	2391 to 11591	1533
2,4-Dimethylphenol	µg/Kg	0.00 to 13959	2534
2,4-Dinitrophenol	µg/Kg	1169 to 4675	584
2,4-Dinitrotoluene (2,4-DNT)	µg/Kg	1248 to 5388	690
2,6-Dichlorophenol	µg/Kg	1831 to 7324	916
2,6-Dimethylphenol	µg/Kg	3033 to 12132	1516
2-Chloronaphthalene	µg/Kg	748 to 3699	492
2-Chlorophenol	µg/Kg	415 to 2942	421
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	µg/Kg	0.00 to 10347	1733
2-Methylphenol (o-Cresol)	µg/Kg	1306 to 10702	1566
2-Nitrophenol	µg/Kg	1534 to 11379	1641
3,4-Dimethylphenol	µg/Kg	2874 to 11495	1437
3+4-Methylphenol (m+p-Cresol)	µg/Kg	4054 to 16218	2027
4-Bromophenyl phenyl ether (BDE-3)	µg/Kg	2901 to 11437	1423
4-Chloro-3-methylphenol	µg/Kg	677 to 3464	464
4-Chlorophenyl phenylether	µg/Kg	756 to 3348	432
4-Methylphenol (p-Cresol)	µg/Kg	2647 to 10587	1323
4-Nitrophenol	µg/Kg	681 to 14762	2650
Acenaphthene	µg/Kg	2243 to 8736	1082
Acenaphthylene	µg/Kg	712 to 3183	412
Anthracene	µg/Kg	1218 to 4515	550
Benzo(a)anthracene	µg/Kg	2806 to 8696	982
Benzo(a)pyrene	µg/Kg	2512 to 9292	1130
Benzo(b)fluoranthene	µg/Kg	1197 to 4822	604
Benzo(b+k)fluoranthene	µg/Kg	2614 to 10454	1307

Description

Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Benzo(g,h,i)perylene	µg/Kg	489 to 2271	297
Benzo(k)fluoranthene	µg/Kg	892 to 3537	441
Butyl benzyl phthalate	µg/Kg	1255 to 5766	752
Carbazole	µg/Kg	2032 to 8792	1127
Chrysene	µg/Kg	669 to 2284	269
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	µg/Kg	765 to 5045	713
Dibenzo(a,h)anthracene	µg/Kg	1257 to 5583	721
Dibenzofuran	µg/Kg	2766 to 9493	1121
Dimethyl phthalate	µg/Kg	1842 to 7231	898
Di-n-butyl phthalate	µg/Kg	495 to 2947	409
Di-n-octyl phthalate	µg/Kg	690 to 4798	685
Fluoranthene	µg/Kg	984 to 4009	504
Fluorene	µg/Kg	1638 to 5810	695
Hexachlorobutadiene	µg/Kg	425 to 3329	484
Indeno(1,2,3-cd) pyrene	µg/Kg	870 to 6957	1015
Isophorone	µg/Kg	437 to 2792	392
Naphthalene	µg/Kg	1131 to 7784	1109
Nitrobenzene	µg/Kg	1024 to 6054	838
n-Nitrosodimethylamine	µg/Kg	632 to 2528	316
n-Nitrosodiphenylamine	µg/Kg	1142 to 4567	571
Pentachlorophenol	µg/Kg	341 to 7037	1209
Phenanthrene	µg/Kg	2307 to 7798	915
Phenol	µg/Kg	681 to 4639	660
Pyrene	µg/Kg	1118 to 4810	615
Pyridine	µg/Kg	403 to 1613	202

Additional Information:

DESCRIPTION

The organic sample is a soil containing extractable BNAs for analysis by 8100, 8270, 8310 or equivalent methods.

This product consist of a 5 vials each containing 10g of soil for analysis of PAHs. Each vial is identical and has been tested how homogeneity. Only one vial is need for test the remaining vials are to be used for multiple methods or routine testing.

The soil has been sterilized to minimize degradation of the sample.

The sample has been sized to 100 mesh.

Required storage condition is 4ºC.

The sample has been intentionally prepared with an apparent headspace.

STORAGE

The sample should be stored at 4ºC. It has been determined to be stable for the duration of the expiration date.

After sub-sampling replace cap securely and store remaining sample at 4ºC.

The shelf life of the product was determined by historic stability of similar CRM's. The expiration date may be extended based on stock and popularity upon successful stability testing by a 17025 accredited laboratory.

Certificate of Analysis

BNAs - Sandy Loam 1

Certified Reference Material

Description

Product ID	CRM143-50G
Lot	**LRAC8918**
Expiration Date	January 2024
Manufacturing Date	January 2021
Storage Conditions	Refrigerate
Solvent/Matrix	SOIL

Stability and shelf life after opening must be determined by the user, taking into account sampling frequency/volume and all local conditions.

SAMPLE PREPARATION

Extract the complete contents of a single vial. Transfer entire contents of one vial to extraction vessel. Rinse vial and cap with extraction solvent.

Assume a 10g sample size for all calculations.

Note: Sample extracts and calibration solutions should be in the same solvent.

Report all results on a wet weight basis, do not correct for moisture.

NOTE: For method 8100 and using a packed column gas chromatographic method or cannot adequately resolve the following may coelute in four pairs of compounds: anthracene and phenanthrene; chrysene and benzo(a)anthracene; benzo(b)fluoranthene and benzo(k)fluoranthene; and dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene.

SCOPE AND APPLICATION

The BNAs in Soil Certified Reference Material (CRM) consists of 5 10mL VOA vials, with a Teflon lined closures containing approximately 10 grams of soil, fortified with BNAs. Being a natural matrix waste sample the analyst is challenged by the same preparation problems, analytical interferences, etc. as is typical for similar matrices received by the laboratory for analysis.

Description

Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

1 **Metrological traceability:** Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.
4 Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. K=2 unless specified. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom } ogeneity}^2 + u_{stability}^2}$$

***k*:** Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Assume 2.0 for a **Confidence interval = 95%**

6 Analytical Value- For QC verification of the certified value only- not to be used in calculations. Represents the analytical data obtained by comparison to a standard as analyzed by the method described in the CoA or another acceptable method. The result may differ from the certified value and UCRM based on method uncertainty as well as the uncertainty associated with the standard used for comparison.

Traceability: The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were preformed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Homogeneity: Homogeneity was assessed in accordance with ISO 17034:2016. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

Expiration is at end of month given on certificate and label.

MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH **ISO/IEC 17025:2017 (ANAB Cert AT-1467)** and **ISO 17034:2016 (ANAB Cert AR-1470).**

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Certification Date January 05, 2021
Version 0-152021

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

Certificate of Analysis

Phenova Certified Reference Materials are sold by Phenomenex.
411 Madrid Ave., Torrance, CA 90501 USA ▪ Tel: 310-212-0555 ▪ Fax: 310-328-7768 ▪ info@phenomenex.com
Access your MSDS and digital C of A at **www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards**

Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.:	AL0-101291	**Lot Number:**	CL11000
Description:	GC/MS Tuning Mix	**Certification Date:**	May 9, 2014
Storage:	4 °C	**Expiration Date:**	December 31, 2023
Provided As:	1 mL in 2 mL Ampoule in Methylene chloride	**Revision Date:**	August 5, 2015

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty (%)
Benzidine	92-87-5	1000	± 0.208%
Decafluorotriphenylphosphine (DFTPP)	5074-71-5	1000	± 0.057%
4,4'-DDT	50-29-3	1000	± 0.056%
Pentachlorophenol	87-86-5	1000	± 0.061%

K003891
GC/MS Tune solution-1000ug/ml
Solvent / Lot: CL11000
Prep: 4/22/2022 by VS
Exp: 12/31/2023
Location:

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

phenova® Certified Reference Materials

Manufactured by Phenova, Inc.

Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ilac-MRA ACCREDITED
Chemical Testing Laboratory
Certificate No. 2427.03

IL111106131.us

Agilent

Certificate of Analysis

Product Name: Toxic Substances Standard

Product Number: US-103N-1 **Lot Issue Date:** 25-May-2021

Lot Number: 0006609664 **Expiration Date:** 30-Jun-2024

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
benzoic acid	000065-85-0	RM01884	2005 ± 10 µg/mL
o-cresol	000095-48-7	RM12877	2005 ± 10 µg/mL
p-cresol	000106-44-5	RM01988	2005 ± 10 µg/mL
2,4,5-trichlorophenol	000095-95-4	NT00344	2004 ± 10 µg/mL

Matrix: methylene chloride (dichloromethane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

5/11/22

K004539
toxic sub mix#1
Solvent / Lot: methylene chloride
Prep: 5/11/2022 by JZ
Exp: 6/30/2024
Location:

ANAB ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

ISO 17034

Agilent
Trusted Answers

Reference Material Certificate

Product Name: Phenols Standard
Product Number: US-107N-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006648297
Lot Issue Date: 17-Nov-2021
Expiration Date: 31-Dec-2024

Component Name	CERTIFIED VALUES Concentration	Expanded Uncertainty	CAS#	Analyte Lot
4-chloro-3-methylphenol	2006 ±	10 µg/mL	000059-50-7	RM01885
2-chlorophenol	2007 ±	10 µg/mL	000095-57-8	RM01871
2,4-dichlorophenol	2005 ±	10 µg/mL	000120-83-2	RM13878
2,4-dimethylphenol	2006 ±	10 µg/mL	000105-67-9	RM13009
2,4-dinitrophenol	2006 ±	10 µg/mL	000051-28-5	RM02112
2-methyl-4,6-dinitrophenol	2005 ±	10 µg/mL	000534-52-1	RM02292
2-nitrophenol	2007 ±	10 µg/mL	000088-75-5	RM13445
4-nitrophenol	2006 ±	10 µg/mL	000100-02-7	RM03752
pentachlorophenol	2006 ±	10 µg/mL	000087-86-5	RM02474
phenol	2006 ±	10 µg/mL	000108-95-2	RM11471
2,4,6-trichlorophenol	2006 ±	10 µg/mL	000088-06-2	RM18096

Matrix: methylene chloride (dichloromethane)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

5/11/22

CSD-QA-015.1

K004540
phenols mix
Solvent / Lot: methylene chloride
Prep: 5/11/2022 by JZ
Exp: 12/31/2024
Location:

ISO 17034

Agilent
Trusted Answers

Reference Material Certificate

Product Name: PAH Standard
Product Number: US-106N-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006627349
Lot Issue Date: 17-Sep-2021
Expiration Date: 31-Oct-2024

Component Name	CERTIFIED VALUES Concentration	Expanded Uncertainty	CAS#	Analyte Lot
acenaphthene	2007 ±	10 µg/mL	000083-32-9	RM10879
acenaphthylene	2004 ±	10 µg/mL	000208-96-8	RM10891
anthracene	2006 ±	10 µg/mL	000120-12-7	RM14212
benz[a]anthracene	2006 ±	10 µg/mL	000056-55-3	RM16072
benzo[b]fluoranthene	2006 ±	10 µg/mL	000205-99-2	RM14571
benzo[k]fluoranthene	2006 ±	10 µg/mL	000207-08-9	RM18376
benzo[ghi]perylene	2006 ±	10 µg/mL	000191-24-2	RM15761
benzo[a]pyrene	2006 ±	10 µg/mL	000050-32-8	RM17573
chrysene	2007 ±	10 µg/mL	000218-01-9	RM13771
dibenz[a,h]anthracene	2006 ±	10 µg/mL	000053-70-3	RM06786
fluoranthene	2006 ±	10 µg/mL	000206-44-0	RM12277
fluorene	2006 ±	10 µg/mL	000086-73-7	RM09441
indeno[1,2,3-cd]pyrene	2006 ±	10 µg/mL	000193-39-5	RM14192
naphthalene	2007 ±	10 µg/mL	000091-20-3	RM10445
phenanthrene	2005 ±	10 µg/mL	000085-01-8	RM10495
pyrene	2005 ±	10 µg/mL	000129-00-0	RM16126

Matrix: methylene chloride/benzene (1:1)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

K004541
SVOA PAH STD 2000ug/ml
Solvent / Lot: DCM/BENZENE
Prep: 5/11/2022 by JZ
Exp: 10/31/2024
Location: Fridge 19

CSD-QA-015.1

11/22

Reference Materials Producer
Cert #2495.01

Certificate of Analysis

Chemical Testing
Cert #2495.02

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This **SPEXOrganics**® Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled	Purity	Certified†	Uncertainty
1,2,4-Trichlorobenzene	120-82-1	2000 µg/mL	99%	2010 µg/mL	± 50 µg/mL
1,2-Dichlorobenzene	95-50-1	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
1,3-Dichlorobenzene	541-73-1	2000 µg/mL	98%	2021 µg/mL	± 51 µg/mL
1,4-Dichlorobenzene	106-46-7	2000 µg/mL	99%	2012 µg/mL	± 50 µg/mL
2,4-Dinitrotoluene	121-14-2	2000 µg/mL	97%	2006 µg/mL	± 50 µg/mL
2,6-Dinitrotoluene	606-20-2	2000 µg/mL	99.6%	2012 µg/mL	± 50 µg/mL
2-Chloronaphthalene	91-58-7	2000 µg/mL	98%	2004 µg/mL	± 50 µg/mL
4-Bromodiphenyl ether	101-55-3	2000 µg/mL	99%	2022 µg/mL	± 51 µg/mL
4-Chlorophenyl-phenyl ether	7005-72-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Azobenzene	103-33-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Bis(2-chloro-1-methylethyl) ether	108-60-1	2000 µg/mL	98.9%	2010 µg/mL	± 50 µg/mL
bis(2-Chloroethoxy)methane	111-91-1	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
bis(2-Chloroethyl)ether	111-44-4	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
Bis(2-Ethylhexyl)phthalate	117-81-7	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Butylbenzyl phthalate	85-68-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Carbazole	86-74-8	2000 µg/mL	95%	2009 µg/mL	± 50 µg/mL
Di-n-butyl phthalate	84-74-2	2000 µg/mL	99%	2020 µg/mL	± 50 µg/mL
Di-n-octyl phthalate	117-84-0	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Diethyl phthalate	84-66-2	2000 µg/mL	99.5%	2002 µg/mL	± 50 µg/mL
Dimethyl phthalate	131-11-3	2000 µg/mL	99%	2006 µg/mL	± 50 µg/mL
Hexachlorobenzene	118-74-1	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachlorobutadiene	87-68-3	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
Hexachlorocyclopentadiene	77-47-4	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachloroethane	67-72-1	2000 µg/mL	98%	2003 µg/mL	± 50 µg/mL
Isophorone	78-59-1	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
N-Nitrosodi-n-propylamine	621-64-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
N-Nitrosodiphenylamine	86-30-6	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
Nitrobenzene	98-95-3	2000 µg/mL	99%	2001 µg/mL	± 50 µg/mL
Pyridine	110-86-1	2000 µg/mL	99%	2004 µg/mL	± 50 µg/mL
N-Nitrosodimethylamine	62-75-9	2000 µg/mL	97%	2000 µg/mL	± 50 µg/mL

Certificate of Reference Material

Catalog Number: ECS-A-030

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Lot No. AA210126005

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

Final Solution Verification:

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 1-26-2021

Certifying Officer: Shannon Mora

Report of Certification

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001:2008, ISO 17025:2005, and ISO Guide 34:2009 Quality System consistent with the following standards:

- ISO 9001:2008: Quality management systems - Requirements - Certified by UL-DQS
- ISO 17025:2005: General Requirements for the Competence of Testing and Calibration Laboratories - Accredited by A2LA
- ISO Guide 34:2009: General Requirements for the Competence of Reference Material Producers - Accredited by A2LA
- ISO Guide 31:2000: Reference Materials - Contents of Certificates and Labels
- ISO Guide 35:2006: Reference Materials - General and statistical principals for certification
- Guide to the Expression of Uncertainty in Measurement 1997
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurements - Second Edition
- ASTM Guide D6362-98
- NIST Technical Note 1297
- ILAC-G12-2000: Guidelines for the requirements for the competence of reference material producers
- ISO/REMCO N280

Storage Requirements:

To ensure the stability of the product once it arrives in your laboratory , please store this product in a refrigerator (2°C to 8°C). Note: Shipping conditions may differ from storage conditions. The EXPIRATION DATE is calculated from the MANUFACTURED DATE using our stability data and is applicable only if the product is unopened and stored under the prescribed conditions.

Instructions for Use:

Let material come to room temperature before use. Check for precipitate and if necessary sonicate for one minute. If compounds do not dissolve after one minute then sonicate further until the product is dissolved. A clear appearance is acceptable. The minimum recommended amount that should be removed from this vial is 5 µL with a 25µL gas tight syringe. All solutions should be thoroughly mixed, by shaking, prior to use. All surfaces that come in contact with the solution must be thoroughly cleaned prior to use. Dilutions should be performed only with Class A volumetric glassware.

Material Source:

All analytes and matrix materials are obtained and verified by SPEX CertiPrep from pre-qualified vendors as per ISO guidelines. Vendor identifications are proprietary, however sources of all materials used in the preparation and testing of SPEX CertiPrep CRMs are tracked and documented. For assistance, please contact sales support at crmsales@spexcsp.com.

Method of Preparation:

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, and analytical instrumentation have been qualified prior to use. The highest purity solvents and Class A / calibrated volumetrics have been been used in all preparations.

Homogeneity:

The homogeneity of this CRM has been confirmed by procedures consistent with ISO 17025:2005, ISO Guide 34:2009, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4300-HOMOGEN-1A. This is consistent with the intended use of this CRM. The Degree of Homogeneity, as expressed as maximum between-bottle variation, is 1.2%

Statistical Estimator and Confidence Limits:

The Certified value 'X' as listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X=certified value, U=expanded uncertainty, x=property value
- $U = ku_c$ where k=2 is the coverage factor at the 95% confidence level
- u_c = combined standard uncertainty obtained by combining the individual compound standard uncertainty components u_i, where $u_c = \sqrt{\sum u_i^2}$

Legal Notice:

SPEX CertiPrep Certified Reference Materials are not for any cosmetic, drug, or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against SPEX CertiPrep of any kind whatsoever, whether based on breech of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall SPEX CertiPrep be liable for any loss of profits or any incidental, special, or consequential damages.

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Accredited to 17025 & Guide 34 ISO Certified to 9001

ACCREDITED
Reference Materials Producer
Cert #2495.01

ECS

Certificate of Analysis

ilac-MRA ACCREDITED
Chemical Testing
Cert #2495.02

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This **SPEXOrganics®** Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled	Purity	Certified†	Uncertainty
1,2,4-Trichlorobenzene	120-82-1	2000 µg/mL	99%	2010 µg/mL	± 50 µg/mL
1,2-Dichlorobenzene	95-50-1	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
1,3-Dichlorobenzene	541-73-1	2000 µg/mL	98%	2021 µg/mL	± 51 µg/mL
1,4-Dichlorobenzene	106-46-7	2000 µg/mL	99%	2012 µg/mL	± 50 µg/mL
2,4-Dinitrotoluene	121-14-2	2000 µg/mL	97%	2006 µg/mL	± 50 µg/mL
2,6-Dinitrotoluene	606-20-2	2000 µg/mL	99.6%	2012 µg/mL	± 50 µg/mL
2-Chloronaphthalene	91-58-7	2000 µg/mL	98%	2004 µg/mL	± 50 µg/mL
4-Bromodiphenyl ether	101-55-3	2000 µg/mL	99%	2022 µg/mL	± 51 µg/mL
4-Chlorophenyl-phenyl ether	7005-72-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Azobenzene	103-33-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Bis(2-chloro-1-methylethyl) ether	108-60-1	2000 µg/mL	98.9%	2010 µg/mL	± 50 µg/mL
bis(2-Chloroethoxy)methane	111-91-1	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
bis(2-Chloroethyl)ether	111-44-4	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
Bis(2-Ethylhexyl)phthalate	117-81-7	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Butylbenzyl phthalate	85-68-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Carbazole	86-74-8	2000 µg/mL	95%	2009 µg/mL	± 50 µg/mL
Di-n-butyl phthalate	84-74-2	2000 µg/mL	99%	2020 µg/mL	± 50 µg/mL
Di-n-octyl phthalate	117-84-0	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Diethyl phthalate	84-66-2	2000 µg/mL	99.5%	2002 µg/mL	± 50 µg/mL
Dimethyl phthalate	131-11-3	2000 µg/mL	99%	2006 µg/mL	± 50 µg/mL
Hexachlorobenzene	118-74-1	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachlorobutadiene	87-68-3	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
Hexachlorocyclopentadiene	77-47-4	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachloroethane	67-72-1	2000 µg/mL	98%	2003 µg/mL	± 50 µg/mL
Isophorone	78-59-1	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
N-Nitrosodi-n-propylamine	621-64-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
N-Nitrosodiphenylamine	86-30-6	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
Nitrobenzene	98-95-3	2000 µg/mL	99%	2001 µg/mL	± 50 µg/mL
Pyridine	110-86-1	2000 µg/mL	99%	2004 µg/mL	± 50 µg/mL
N-Nitrosodimethylamine	62-75-9	2000 µg/mL	97%	2000 µg/mL	± 50 µg/mL

K004542

Certificate of Reference Material

Catalog Number: ECS-A-030

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Lot No. AA210126005

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

Final Solution Verification:

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 1-26-2021

Certifying Officer: Shannon Nave

Report of Certification

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001:2008, ISO 17025:2005, and ISO Guide 34:2009 Quality System consistent with the following standards:

- ISO 9001:2008: Quality management systems - Requirements - Certified by UL-DQS
- ISO 17025:2005: General Requirements for the Competence of Testing and Calibration Laboratories - Accredited by A2LA
- ISO Guide 34:2009: General Requirements for the Competence of Reference Material Producers - Accredited by A2LA
- ISO Guide 31:2000: Reference Materials - Contents of Certificates and Labels
- ISO Guide 35:2006: Reference Materials - General and statistical principals for certification
- Guide to the Expression of Uncertainty in Measurement 1997
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurements - Second Edition
- ASTM Guide D6362-98
- NIST Technical Note 1297
- ILAC-G12-2000: Guidelines for the requirements for the competence of reference material producers
- ISO/REMCO N280

Storage Requirements:

To ensure the stability of the product once it arrives in your laboratory, please store this product in a refrigerator (2°C to 8°C). Note: Shipping conditions may differ from storage conditions. The EXPIRATION DATE is calculated from the MANUFACTURED DATE using our stability data and is applicable only if the product is unopened and stored under the prescribed conditions.

Instructions for Use:

Let material come to room temperature before use. Check for precipitate and if necessary sonicate for one minute. If compounds do not dissolve after one minute then sonicate further until the product is dissolved. A clear appearance is acceptable. The minimum recommended amount that should be removed from this vial is 5µL with a 25µL gas tight syringe. All solutions should be thoroughly mixed, by shaking, prior to use. All surfaces that come in contact with the solution must be thoroughly cleaned prior to use. Dilutions should be performed only with Class A volumetric glassware.

Material Source:

All analytes and matrix materials are obtained and verified by SPEX CertiPrep from pre-qualified vendors as per ISO guidelines. Vendor identifications are proprietary, however sources of all materials used in the preparation and testing of SPEX CertiPrep CRMs are tracked and documented. For assistance, please contact sales support at crmsales@spexcsp.com.

Method of Preparation:

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, and analytical instrumentation have been qualified prior to use. The highest purity solvents and Class A / calibrated volumetrics have been been used in all preparations.

Homogeneity:

The homogeneity of this CRM has been confirmed by procedures consistent with ISO 17025:2005, ISO Guide 34:2009, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4300-HOMOGEN-1A. This is consistent with the intended use of this CRM. The Degree of Homogeneity, as expressed as maximum between-bottle variation, is 1.2%

Statistical Estimator and Confidence Limits:

The Certified value 'X' as listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X=certified value, U=expanded uncertainty, x=property value
- $U = ku_c$ where k=2 is the coverage factor at the 95% confidence level
- u_c = combined standard uncertainty obtained by combining the individual compound standard uncertainty components u_i where $u_c = \sqrt{\sum u_i^2}$

Legal Notice:

SPEX CertiPrep Certified Reference Materials are not for any cosmetic, drug, or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against SPEX CertiPrep of any kind whatsoever, whether based on breech of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall SPEX CertiPrep be liable for any loss of profits or any incidental, special, or consequential damages.

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Phone: 1-732-549-7144 • Fax 1-732-603-9647

Accredited to 17025 & Guide 34 ISO Certified to 9001

Agilent

Certificate of Analysis

Product Name: 1-Methylnaphthalene Standard

Product Number: EPA-1225-1 **Lot Issue Date:** 19-Jul-2021

Lot Number: 0006624769 **Expiration Date:** 31-Jul-2023

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
1-methylnaphthalene	000090-12-0	RM07712	999.3 ± 5.0 µg/mL

Matrix: methanol (methyl alcohol)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

K004543
1-Methylnaphthalene
Solvent / Lot: MEOH
Prep: 5/11/2022 by JZ
Exp: 7/31/2023
Location:

5/11/22

Sample lot approver:
Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026
Page: 1 of 1
www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert
No. AT-1937

Agilent

Certificate of Analysis

Product Name: Toxic Substances Standard

Product Number: US-104N-1 **Lot Issue Date:** 02-Jul-2021

Lot Number: 0006620643 **Expiration Date:** 31-Jul-2023

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
aniline	000062-53-3	RM12853	2005 ± 10 µg/mL
benzyl alcohol	000100-51-6	RM10547	2004 ± 10 µg/mL
4-chloroaniline	000106-47-8	RM01886	2002 ± 10 µg/mL
dibenzofuran	000132-64-9	RM02077	2002 ± 10 µg/mL
2-methylnaphthalene	000091-57-6	RM01258	2006 ± 10 µg/mL
2-nitroaniline	000088-74-4	RM02402	2003 ± 10 µg/mL
3-nitroaniline	000099-09-2	RM02424	2003 ± 10 µg/mL
4-nitroaniline	000100-01-6	RM02425	2003 ± 10 µg/mL

Matrix: methylene chloride (dichloromethane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

K004544
toxic sub mix#2
Solvent / Lot: methylene chloride
Prep: 5/11/2022 by JZ
Exp: 7/31/2023
Location:

05/11/22

ANAB ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31493 **Lot No.:** A0181243

Description : CLP 04.1 BNA Surrogate Mix

CLP 04.1 BNA Surrogate Mix 1000-1500 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2025 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

05/11/22

K004545
CLP 04.1 BNA SURR MIX
Solvent / Lot: AO175316
Prep: 5/11/2022 by JZ
Exp: 10/20/2025
Location:

Elution Order	Compound	Gr (weig					
1	2-Fluorophenol **CAS #** 367-12-4 (Lot STBJ2508) **Purity** 99%	1,50				µg/mL	Stressed
				+/-	53.3632	µg/mL	Stressed
2	Phenol-d6 **CAS #** 13127-88-3 (Lot PR-31262) **Purity** 99%	1,506.0	µg/mL	+/-	8.9452	µg/mL	Gravimetric
				+/-	43.9882	µg/mL	Unstressed
				+/-	53.3632	µg/mL	Stressed
3	2-Chlorophenol-d4 **CAS #** 93951-73-6 (Lot PR-30568) **Purity** 99%	1,510.0	µg/mL	+/-	8.9689	µg/mL	Gravimetric
				+/-	44.1050	µg/mL	Unstressed
				+/-	53.5049	µg/mL	Stressed
4	1,2-Dichlorobenzene-d4 **CAS #** 2199-69-1 (Lot PR-32542/022621DB1 **Purity** 99%	1,004.0	µg/mL	+/-	5.9635	µg/mL	Gravimetric
				+/-	29.3255	µg/mL	Unstressed
				+/-	35.5754	µg/mL	Stressed
5	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	1,008.0	µg/mL	+/-	5.9872	µg/mL	Gravimetric
				+/-	29.4423	µg/mL	Unstressed
				+/-	35.7172	µg/mL	Stressed
6	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 19169) **Purity** 99%	1,006.0	µg/mL	+/-	5.9753	µg/mL	Gravimetric
				+/-	29.3839	µg/mL	Unstressed
				+/-	35.6463	µg/mL	Stressed
7	2,4,6-Tribromophenol **CAS #** 118-79-6 (Lot MKCJ7664) **Purity** 99%	1,506.0	µg/mL	+/-	8.9452	µg/mL	Gravimetric
				+/-	43.9882	µg/mL	Unstressed
				+/-	53.3632	µg/mL	Stressed

Certificate of Analysis

phenova Certified Reference Materials | A Phenomenex Company

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.:	AL0-101246	**Lot Number:**	CL17953
Description:	Benzoic Acid	**Certification Date:**	January 31, 2022
Storage:	4 °C	**Expiration Date:**	January 31, 2032
Provided As:	1 mL in 2 mL Ampoule in Methylene Chloride		

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzoic acid	65-85-0	2000	± 2.714%

K004603
Benzoic Acid @2000ug/ml
Solvent / Lot: N/A
Prep: 5/13/2022 by JZ
Exp: 1/31/2032
Location: GC

5/13/22

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

phenova Certified Reference Materials | A Phenomenex Company

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64691018 us

Certificate of Analysis

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Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL17662
Certification Date: December 2, 2021
Expiration Date: November 30, 2031

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 0.211%
3,3'-Dichlorobenzidine	91-94-1	2000	± 1.305%

K004604
Benzidines std @2000ug/ml
Solvent / Lot: MeCl2
Prep: 5/13/2022 by JZ
Exp: 11/30/2031
Location: GC

5/13/22

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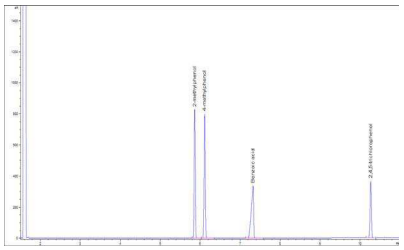
Certificate of Analysis - Certified Reference Material

EPA TCL Hazardous Substances Mix 1

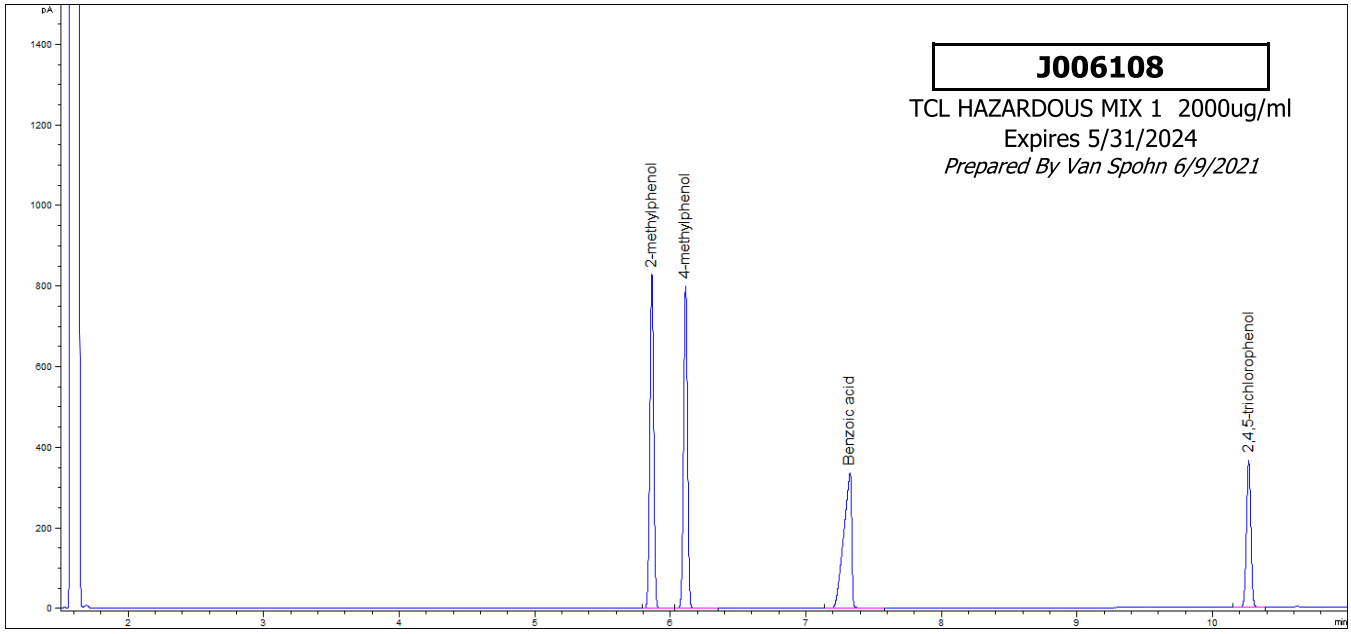
Product no.: 48907
Lot no.: LRAC9610
Expiry Date: May 2024
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAC9610.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*



Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Elution order*	*Raw Material Lot*
2-METHYLPHENOL CAS# 95-48-7	2004 ± 9	µg/mL	99.0	1	G1735A
4-METHYLPHENOL CAS# 106-44-5	2004 ± 13	µg/mL	98.9	2	06921MG
BENZOIC ACID CAS# 65-85-0	2012 ± 6	µg/mL	99.9	3	LC16514
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	2003 ± 6	µg/mL	99.9	4	JS00008

Informational Values:



Additional Information:
Analytical Method Parameters:
Column: Equity-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #98)
Carrier Gas: H2, Flow: 4.5 mL/min
Inlet Temperature: 170 °C, Injection Volume: 1 µL
Injection Mode: Split, Split Ratio: 20:1

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Temperature Program: 80 °C @ 10 °C/min to 190 °C (Hold 5 min)
Detector: FID
Detector Temperature: 310 °C

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 20-May-2021

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom}\ ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAC9610.01	20-May-2021	Original Release Date

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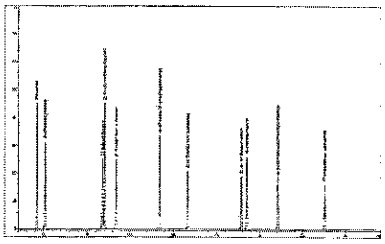
Certificate of Analysis - Certified Reference Material

EPA TCL Phenols Mix

Product no.: 48904
Lot no.: LRAD0139
Expiry Date: July 2024
Manufacturing Date: July 2021
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD0139.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*



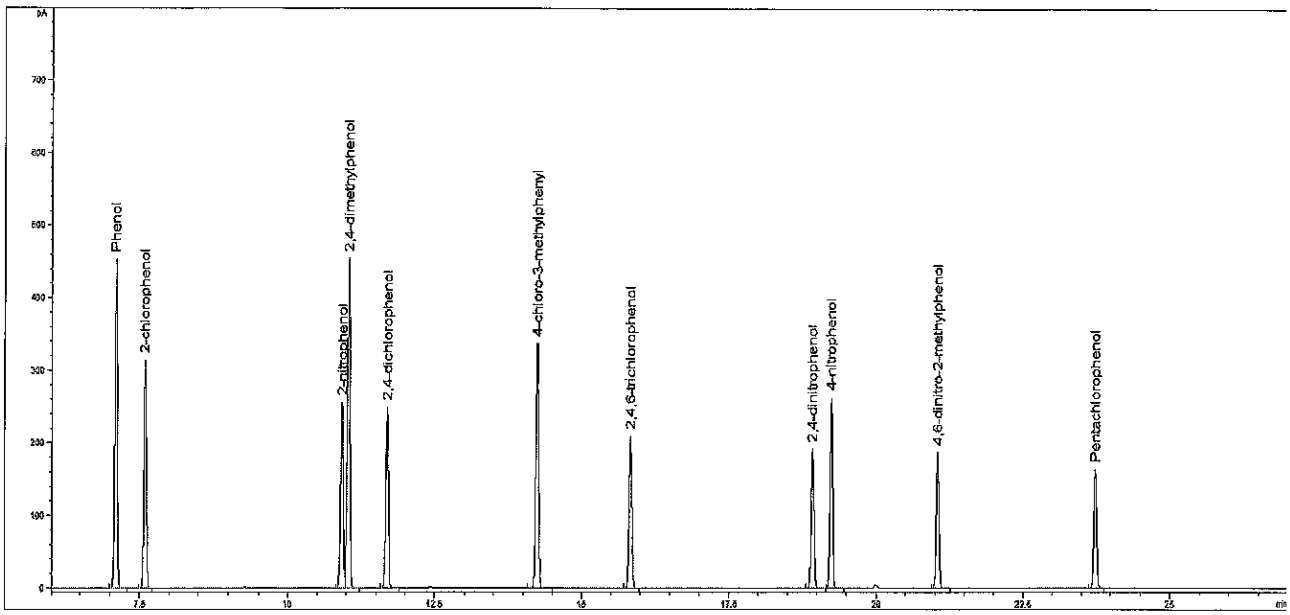
Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
2-CHLOROPHENOL CAS# 95-57-8	2001 ± 25	µg/mL	99.9	STBG3033V
2-NITROPHENOL CAS# 88-75-5	1999 ± 18	µg/mL	99.3	15905BB
2,4-DIMETHYLPHENOL CAS# 105-67-9	2000 ± 14	µg/mL	99.2	05421CO
2,4-DICHLOROPHENOL CAS# 120-83-2	2000 ± 17	µg/mL	99.5	03221TN
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	2000 ± 5	µg/mL	99.9	JS00013
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	2002 ± 5	µg/mL	99.5	04212PS
2,4-DINITROPHENOL CAS# 51-28-5	2000 ± 28	µg/mL	66.9	STBJ5751
4-NITROPHENOL CAS# 100-02-7	2000 ± 33	µg/mL	99.0	04628LT
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	2000 ± 27	µg/mL	99.7	LC18338
PENTACHLOROPHENOL CAS# 87-86-5	1999 ± 25	µg/mL	97.9	MKCD2150

ASSAY Method

J013597
TCL Phenols Mix 2000ug/ml
Solvent / Lot: LRAD0139
Prep: 12/30/2021 by VS
Exp: 7/31/2024
Location:

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.



METHOD: GC (Bellefonte Method)

Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness
Carrier Gas: H_2 Flow Rate: 4.5 mL/min
Inlet Temperature: 200 °C Injection Volume: 1.0 µL
Injection Mode: 25:1
Temperature Program: 80 °C (Hold 2 min) @ 6 °C/min to 260 °C (Hold 5 min)
Detector: FID Temperature: 310 °C

Elution details:

EO	RT(MIN)	ANALYTE
1	7.095	Phenol
2	7.585	2-chlorophenol
3	10.925	2-nitrophenol
4	11.037	2,4-dimethylphenol
5	11.696	2,4-dichlorphenol
6	14.242	4-chloro-3-m3thylphenol
7	15.842	2,4,6-trichlorophenol
8	18.93	2,4-dinitrophenol
9	19.25	4-nitrophenol
10	21.05	4,6-dinitro-2-methylphenol
11	23.752	Pentachlorophenol

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 12-Jul-2021

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{hom\ ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD0139.01	12-Jul-2021	Original Release Date

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Disclaimer: The purchaser is required to determine the suitability of this product for any particular application. Sigma-Aldrich RTC makes no warranty of any kind, express or implied, other than its products meet all quality control standards set by Sigma-Aldrich RTC. We do not guarantee that the product can be used for any particular application.

The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada.

RESTEK® C

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

K007194
CLP 04.1 BNA SURR MIX
Solvent / Lot: AO187400
Prep: 8/5/2022 by VS
Exp: 4/30/2026
Location:

Certificate of Analysis

IAL

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31493 **Lot No.:** A0187400

Description : CLP 04.1 BNA Surrogate Mix

CLP 04.1 BNA Surrogate Mix 1000-1500 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol **CAS #** 367-12-4 (Lot STBJ3299) **Purity** 99%	1,508.0 µg/mL	+/- 8.9571 µg/mL +/- 44.0466 µg/mL +/- 53.4340 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 (Lot SL210831) **Purity** 99%	1,510.0 µg/mL	+/- 8.9689 µg/mL +/- 44.1050 µg/mL +/- 53.5049 µg/mL	Gravimetric Unstressed Stressed
3	2-Chlorophenol-d4 **CAS #** 93951-73-6 (Lot PR-30568) **Purity** 99%	1,512.0 µg/mL	+/- 8.9808 µg/mL +/- 44.1635 µg/mL +/- 53.5758 µg/mL	Gravimetric Unstressed Stressed
4	1,2-Dichlorobenzene-d4 **CAS #** 2199-69-1 (Lot PR-32597) **Purity** 99%	1,004.0 µg/mL	+/- 5.9635 µg/mL +/- 29.3255 µg/mL +/- 35.5754 µg/mL	Gravimetric Unstressed Stressed
5	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	1,004.0 µg/mL	+/- 5.9635 µg/mL +/- 29.3255 µg/mL +/- 35.5754 µg/mL	Gravimetric Unstressed Stressed
6	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	1,004.0 µg/mL	+/- 5.9635 µg/mL +/- 29.3255 µg/mL +/- 35.5754 µg/mL	Gravimetric Unstressed Stressed
7	2,4,6-Tribromophenol **CAS #** 118-79-6 (Lot MKCJ7664) **Purity** 99%	1,502.0 µg/mL	+/- 8.9214 µg/mL +/- 43.8714 µg/mL +/- 53.2214 µg/mL	Gravimetric Unstressed Stressed

8	p-Terphenyl-d14		1,002.0	µg/mL	+/-	5.9516	µg/mL	Gravimetric
	CAS # 1718-51-0	(Lot PR-30504)			+/-	29.2671	µg/mL	Unstressed
	Purity 99%				+/-	35.5046	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

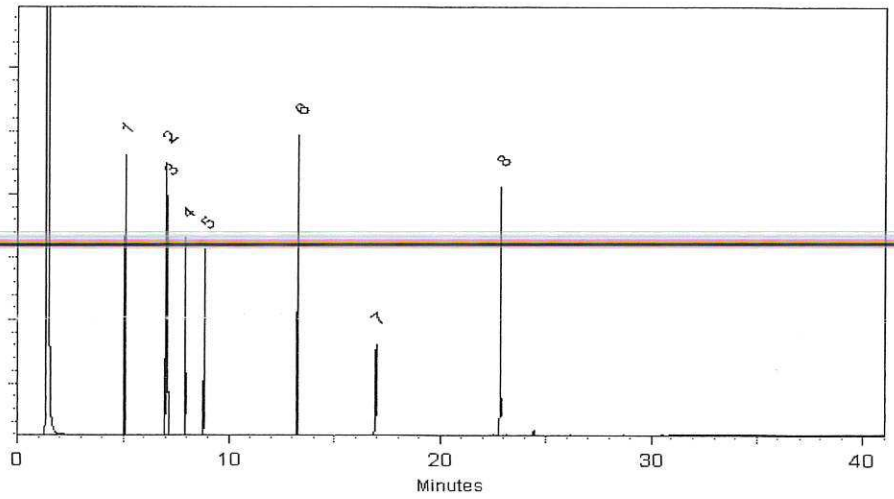
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bryan Snyder - Operations Tech I

Date Mixed: 17-Jul-2022 **Balance:** 1128353505

Christie Mills - Operations Tech II - ARM QC

Date Passed: 21-Jul-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Certificate of Analysis

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18355
Certification Date: July 25, 2022
Expiration Date: August 31, 2023

K007995
SVOA-8270 LCS MIX 1000ug/ml
Solvent / Lot: N/A
Prep: 8/29/2022 by JZ
Exp: 8/31/2023
Location: FREEZER 44

Aaron Dukes, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Acenaphthene	83-32-9	1000	± 0.300%
Acenaphthylene	208-96-8	1000	± 0.225%
Anthracene	120-12-7	1000	± 6.858%
Azobenzene	103-33-3	1000	± 0.224%
Benzo(a)anthracene	56-55-3	1000	± 0.247%
Benzo(a)pyrene	50-32-8	1000	± 0.270%
Benzo(b)fluoranthene	205-99-2	1000	± 0.635%
Benzo(k)fluoranthene	207-08-9	1000	± 0.682%
Benzo(g,h,i)perylene	191-24-2	1000	± 0.272%
Benzyl alcohol	100-51-6	1000	± 0.231%
Benzyl butyl phthalate	85-68-7	1000	± 0.480%
bis(2-Chloroethoxy)methane	111-91-1	1000	± 0.479%
bis(2-Chloroethyl) ether	111-44-4	1000	± 0.479%
bis(2-Chloroisopropyl) ether	108-60-1	1000	± 0.550%
bis(2-Ethylhexyl) adipate	103-23-1	1000	± 0.479%
bis(2-Ethylhexyl) phthalate	117-81-7	1000	± 0.479%
4-Bromophenyl phenyl ether	101-55-3	1000	± 0.479%
Carbazole	86-74-8	1000	± 0.146%

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
4-Chloroaniline	106-47-8	1000	± 0.300%
4-Chloro-3-methylphenol	59-50-7	1000	± 0.545%
2-Chloronaphthalene	91-58-7	1000	± 0.224%
2-Chlorophenol	95-57-8	1000	± 0.507%
4-Chlorophenyl phenyl ether	7005-72-3	1000	± 0.479%
Chrysene	218-01-9	1000	± 0.145%
Dibenz(a,h)anthracene	53-70-3	1000	± 1.058%
Dibenzofuran	132-64-9	1000	± 0.302%
Di-n-butyl phthalate	84-74-2	1000	± 0.518%
1,2-Dichlorobenzene	95-50-1	1000	± 0.247%
1,3-Dichlorobenzene	541-73-1	1000	± 0.225%
1,4-Dichlorobenzene	106-46-7	1000	± 0.224%
2,4-Dichlorophenol	120-83-2	1000	± 0.545%
Diethyl phthalate	84-66-2	1000	± 0.518%
2,4-Dimethylphenol	105-67-9	1000	± 0.507%
Dimethyl phthalate	131-11-3	1000	± 0.518%
1,2-Dinitrobenzene	528-29-0	1000	± 0.361%
1,3-Dinitrobenzene	99-65-0	1000	± 0.300%
1,4-Dinitrobenzene	100-25-4	1000	± 0.242%
2,4-Dinitrophenol	51-28-5	1000	± 0.545%
2,4-Dinitrotoluene	121-14-2	1000	± 1.128%

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2,6-Dinitrotoluene	606-20-2	1000	± 0.224%
Di-n-octyl phthalate	117-84-0	1000	± 0.486%
Fluoranthene	206-44-0	1000	± 0.224%
Fluorene	86-73-7	1000	± 0.224%
Hexachlorobenzene	118-74-1	1000	± 0.152%
Hexachlorobutadiene	87-68-3	1000	± 0.746%
Hexachlorocyclopentadiene	77-47-4	1000	± 0.153%
Hexachloroethane	67-72-1	1000	± 0.300%
Indeno(1,2,3-cd)pyrene	193-39-5	1000	± 0.883%
Isophorone	78-59-1	1000	± 0.145%
2-Methyl-4,6-dinitrophenol	534-52-1	1000	± 0.508%
1-Methylnaphthalene	90-12-0	1000	± 0.479%
2-Methylnaphthalene	91-57-6	1000	± 0.487%
2-Methylphenol	95-48-7	1000	± 0.545%
3-Methylphenol	108-39-4	500	± 0.279%
4-Methylphenol	106-44-5	500	± 0.399%
Naphthalene	91-20-3	1000	± 0.226%
2-Nitroaniline	88-74-4	1000	± 0.224%
3-Nitroaniline	99-09-2	1000	± 0.235%
4-Nitroaniline	100-01-6	1000	± 0.300%
Nitrobenzene	98-95-3	1000	± 0.300%

Produced by Phenova
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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2-Nitrophenol	88-75-5	1000	± 0.514%
4-Nitrophenol	100-02-7	1000	± 0.519%
N-Nitrosodimethylamine	62-75-9	1000	± 0.503%
N-Nitrosodiphenylamine	86-30-6	1000	± 0.476%
N-Nitrosodi-n-propylamine	621-64-7	1000	± 0.461%
Pentachlorophenol	87-86-5	1000	± 0.202%
Phenanthrene	85-01-8	1000	± 0.145%
Phenol	108-95-2	1000	± 0.545%
Pyrene	129-00-0	1000	± 0.147%
Pyridine	110-86-1	1000	± 0.503%
2,3,4,6-Tetrachlorophenol	58-90-2	1000	± 0.247%
2,3,5,6-Tetrachlorophenol	935-95-5	1000	± 0.247%
1,2,4-Trichlorobenzene	120-82-1	1000	± 0.224%
2,4,5-Trichlorophenol	95-95-4	1000	± 0.507%
2,4,6-Trichlorophenol	88-06-2	1000	± 0.509%

Notes: The proper chemical name for Bis(2-Chloroiospropyl) ether is 2,2'-oxybis(1-chloropropane). The analytical uncertainty contribution to the expanded uncertainty for 3 and 4-Methylphenol is measured as the total of the two analytes. N-Nitrosodiphenylamine presents as Diphenylamine at 854 µg/mL.

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Supelco®

www.sigmaaldrich.com

Certificate of Composition - Analytical Standard

BASE STOCK

Product no.: 22523051
Lot no.: LRAD2751
Expiry Date: June 2024
Manufacturing Date: June 2022
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD2751.01 (*Note: Certificates may be updated due to the availability of new data. Check our website at:* www.sigma-aldrich.com *for the most current version.)*

Analyte	*Assigned Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
3,3'-DICHLOROBENZIDINE, 100MG, NEAT CAS# 91-94-1	799	µg/mL	99.8	LRAD2376
2,4-DINITROTOLUENE CAS# 121-14-2	801	µg/mL	97.8	LB46632
2,6-DINITROTOLUENE CAS# 606-20-2	800	µg/mL	99.2	11231AN
HEXACHLOROCYCLOPENTADIENE CAS# 77-47-4	800	µg/mL	96.0	LB95525
N-NITROSODIMETHYLAMINE CAS# 62-75-9	800	µg/mL	95.0	2019-030598 5
PERYLENE CAS# 198-55-0	200	µg/mL	99.6	04101PG
ANILINE CAS# 62-53-3	800	µg/mL	99.9	LA41596
4-CHLOROANILINE CAS# 106-47-8	800	µg/mL	100.0	MKBZ6909V
2-NITROANILINE CAS# 88-74-4	799	µg/mL	99.9	07411KN
3-NITROANILINE CAS# 99-09-2	800	µg/mL	99.9	LC09264
4-NITROANILINE CAS# 100-01-6	800	µg/mL	99.9	15609AA
PYRIDINE (LOW WATER) CAS# 110-86-1	800	µg/mL	100.0	SHBJ9218

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

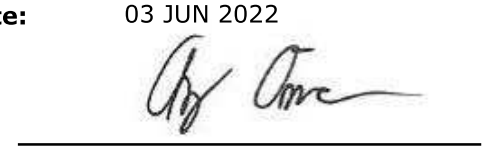
Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Certificate issue date: 03 JUN 2022



Andy Ommen - QC Manager

Scott Stetler - QA Manager

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD2751.01	03 JUN 2022	Original Release Date

Disclaimer: The purchaser is required to determine the suitability of this product for any particular application. Sigma-Aldrich RTC makes no warranty of any kind, express or implied, other than its products meet all quality control standards set by Sigma-Aldrich RTC. We do not guarantee that the product can be used for any particular application.

Supelco®

www.sigmaaldrich.com

Certificate of Composition - Analytical Standard

ACID STOCK

Product no.: 22523046
Lot no.: LRAD2750
Expiry Date: June 2024
Manufacturing Date: June 2022
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD2750.01 (*Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

Analyte	*Assigned Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
2,4-DIMETHYLPHENOL CAS# 105-67-9	800	µg/mL	99.9	LB88935
2,4-DICHLOROPHENOL CAS# 120-83-2	800	µg/mL	100.0	BCBZ6787
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	801	µg/mL	99.9	JS00008
2,4-DINITROPHENOL CAS# 51-28-5	1799	µg/mL	66.9	STBJ5751
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	800	µg/mL	98.7	LB82983
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	800	µg/mL	100.0	BCCD4461
4-NITROPHENOL CAS# 100-02-7	800	µg/mL	100.0	MKCN1089
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	1800	µg/mL	100.0	BCBX5762
PENTACHLOROPHENOL CAS# 87-86-5	800	µg/mL	99.0	23614-01
BENZOIC ACID CAS# 65-85-0	1800	µg/mL	99.9	LC16514

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Certificate issue date: 03 JUN 2022

Andy Ommen - QC Manager

Scott Stetler - QA Manager

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD2750.01	03 JUN 2022	Original Release Date

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Certificate of Analysis

phenova Certified Reference Materials | A Phenomenex Company

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL18939
Certification Date: September 7, 2022
Expiration Date: August 31, 2032

Aaron Dukes, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 3.812%
3,3'-Dichlorobenzidine	91-94-1	2000	± 1.419%

L001288
Benzidines std @2000ug/ml
Solvent / Lot: CL18939
Prep: 2/7/2023 by VS
Exp: 8/31/2032
Location: GC

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

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ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64631018 us

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101443
Lot Number: CL18741
Description: Aniline
Certification Date: July 21, 2022
Storage: 4 °C
Expiration Date: July 31, 2030
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Aaron Dukes, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aniline	62-53-3	1000	± 1.719%

L001290
Anline-1000ug/mL
Solvent / Lot: CL18741
Prep: 2/7/2023 by VS
Exp: 7/31/2030
Location: GC

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18811
Certification Date: August 9, 2022
Expiration Date: November 30, 2023

Aaron Dukes, Certified Reference Materials Manager

L001291
SVOA-8270 LCS MIX 1000ug/ml
Solvent / Lot: CL18811
Prep: 2/7/2023 by VS
Exp: 11/30/2023
Location: FREEZER 44

Component	CAS #	µg/mL	Expanded Uncertainty
Acenaphthene	83-32-9	1000	± 1.643%
Acenaphthylene	208-96-8	1000	± 1.317%
Anthracene	120-12-7	1000	± 2.136%
Azobenzene	103-33-3	1000	± 1.630%
Benzo(a)anthracene	56-55-3	1000	± 2.372%
Benzo(a)pyrene	50-32-8	1000	± 3.028%
Benzo(b)fluoranthene	205-99-2	1000	± 2.377%
Benzo(k)fluoranthene	207-08-9	1000	± 2.286%
Benzo(g,h,i)perylene	191-24-2	1000	± 2.561%
Benzyl alcohol	100-51-6	1000	± 1.803%
Benzyl butyl phthalate	85-68-7	1000	± 1.855%
bis(2-Chloroethoxy)methane	111-91-1	1000	± 1.626%
bis(2-Chloroethyl) ether	111-44-4	1000	± 1.776%
bis(2-Chloroisopropyl) ether	108-60-1	1000	± 2.406%
bis(2-Ethylhexyl) adipate	103-23-1	1000	± 2.415%
bis(2-Ethylhexyl) phthalate	117-81-7	1000	± 2.350%
4-Bromophenyl phenyl ether	101-55-3	1000	± 1.708%
Carbazole	86-74-8	1000	± 1.844%

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18811
Certification Date: August 9, 2022
Expiration Date: November 30, 2023

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
4-Chloroaniline	106-47-8	1000	± 2.831%
4-Chloro-3-methylphenol	59-50-7	1000	± 1.571%
2-Chloronaphthalene	91-58-7	1000	± 2.022%
2-Chlorophenol	95-57-8	1000	± 2.001%
4-Chlorophenyl phenyl ether	7005-72-3	1000	± 1.634%
Chrysene	218-01-9	1000	± 2.358%
Dibenz(a,h)anthracene	53-70-3	1000	± 2.452%
Dibenzofuran	132-64-9	1000	± 0.310%
Di-n-butyl phthalate	84-74-2	1000	± 2.347%
1,2-Dichlorobenzene	95-50-1	1000	± 1.803%
1,3-Dichlorobenzene	541-73-1	1000	± 1.808%
1,4-Dichlorobenzene	106-46-7	1000	± 1.503%
2,4-Dichlorophenol	120-83-2	1000	± 1.393%
Diethyl phthalate	84-66-2	1000	± 1.870%
2,4-Dimethylphenol	105-67-9	1000	± 2.495%
Dimethyl phthalate	131-11-3	1000	± 2.113%
1,2-Dinitrobenzene	528-29-0	1000	± 0.240%
1,3-Dinitrobenzene	99-65-0	1000	± 1.221%
1,4-Dinitrobenzene	100-25-4	1000	± 0.246%
2,4-Dinitrophenol	51-28-5	1000	± 0.519%
2,4-Dinitrotoluene	121-14-2	1000	± 2.242%

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Lot Number: CL18811
Description: 8270 Calibration Standard
Certification Date: August 9, 2022
Storage: -18 °C
Expiration Date: November 30, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2,6-Dinitrotoluene	606-20-2	1000	± 2.154%
Di-n-octyl phthalate	117-84-0	1000	± 2.670%
Fluoranthene	206-44-0	1000	± 2.103%
Fluorene	86-73-7	1000	± 0.890%
Hexachlorobenzene	118-74-1	1000	± 1.210%
Hexachlorobutadiene	87-68-3	1000	± 1.304%
Hexachlorocyclopentadiene	77-47-4	1000	± 1.510%
Hexachloroethane	67-72-1	1000	± 3.281%
Indeno(1,2,3-cd)pyrene	193-39-5	1000	± 1.921%
Isophorone	78-59-1	1000	± 2.022%
2-Methyl-4,6-dinitrophenol	534-52-1	1000	± 1.661%
1-Methylnaphthalene	90-12-0	1000	± 1.929%
2-Methylnaphthalene	91-57-6	1000	± 2.220%
2-Methylphenol	95-48-7	1000	± 2.168%
3-Methylphenol	108-39-4	500	± 1.025%
4-Methylphenol	106-44-5	500	± 1.064%
Naphthalene	91-20-3	1000	± 1.199%
2-Nitroaniline	88-74-4	1000	± 1.874%
3-Nitroaniline	99-09-2	1000	± 2.146%
4-Nitroaniline	100-01-6	1000	± 0.300%
Nitrobenzene	98-95-3	1000	± 1.704%

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18811
Certification Date: August 9, 2022
Expiration Date: November 30, 2023

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2-Nitrophenol	88-75-5	1000	± 2.051%
4-Nitrophenol	100-02-7	1000	± 1.413%
N-Nitrosodimethylamine	62-75-9	1000	± 0.545%
N-Nitrosodiphenylamine	86-30-6	1000	± 1.669%
N-Nitrosodi-n-propylamine	621-64-7	1000	± 0.712%
Pentachlorophenol	87-86-5	1000	± 2.454%
Phenanthrene	85-01-8	1000	± 2.072%
Phenol	108-95-2	1000	± 2.140%
Pyrene	129-00-0	1000	± 1.869%
Pyridine	110-86-1	1000	± 0.545%
2,3,4,6-Tetrachlorophenol	58-90-2	1000	± 2.552%
2,3,5,6-Tetrachlorophenol	935-95-5	1000	± 2.220%
1,2,4-Trichlorobenzene	120-82-1	1000	± 1.632%
2,4,5-Trichlorophenol	95-95-4	1000	± 1.596%
2,4,6-Trichlorophenol	88-06-2	1000	± 0.481%

Notes: The proper chemical name for Bis(2-Chloroiospropyl) ether is 2,2'-oxybis(1-chloropropane). The analytical uncertainty contribution to the expanded uncertainty for 3 and 4-Methylphenol is measured as the total of the two analytes. N-Nitrosodiphenylamine presents as Diphenylamine at 854 µg/mL.

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1026

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E-SIM

SIM SVOC Organics (Dual scan list)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-01 A	SDG:	23C0752
Sampled:	03/30/23 10:37	Prepared:	04/03/23 11:31	File ID:	NT1004192341S.D
% Solids:	50.24	Preparation:	EPA 3546 (Microwave)	Analyzed:	04/20/23 12:45
Batch:	BLD0008	Sequence:	SLD0302	Initial/Final:	19.98 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00049
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
106-46-7	1,4-Dichlorobenzene	1	2.0	J	0.6	5.0
95-50-1	1,2-Dichlorobenzene	1	5.0	U	0.7	5.0
100-51-6	Benzyl Alcohol	1	39.5		2.5	19.9
65-85-0	Benzoic acid	1	72.5	J	13.3	99.6
105-67-9	2,4-Dimethylphenol	1	2.4	J	2.2	19.9
120-82-1	1,2,4-Trichlorobenzene	1	5.0	U	2.7	5.0
86-30-6	N-Nitrosodiphenylamine	1	5.0	U	1.3	5.0
87-86-5	Pentachlorophenol	1	6.4	J	2.1	19.9

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	747.16	401	53.7	27 - 120	
p-Terphenyl-d14	498.11	295	59.1	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT10041923415.D

Date : 20-APR-2023 12:45

Client ID:

Sample Info: 23C0752-01

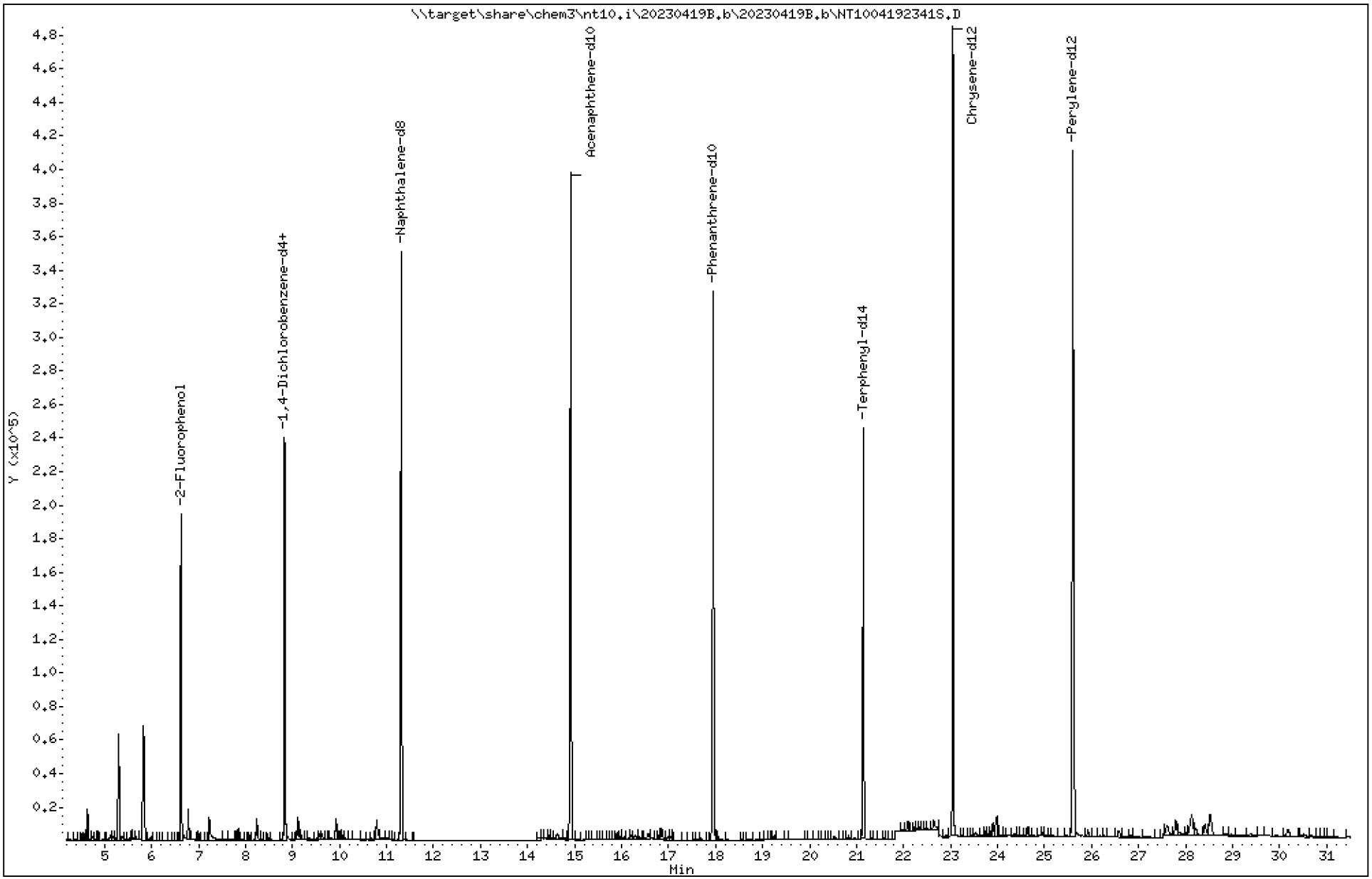
Volume Injected (uL): 1.0

Column phase: ZB-5msi

Instrument: nt10.i

Operator: DSD

Column diameter: 0.25



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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

Volume Injected (uL): 1.0

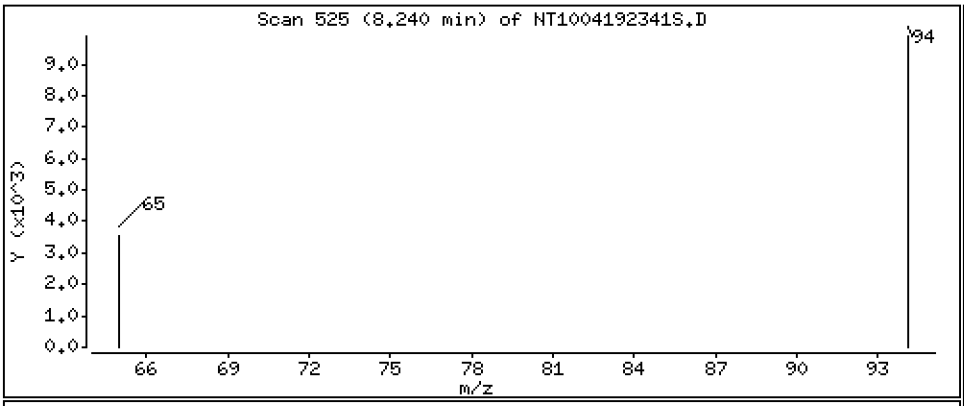
Operator: DSD

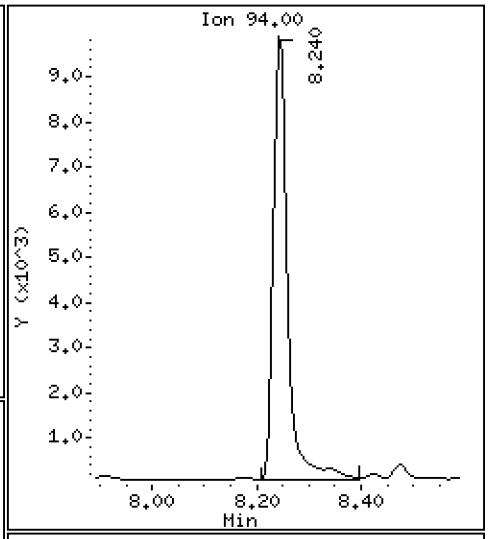
Column phase: ZB-5msi

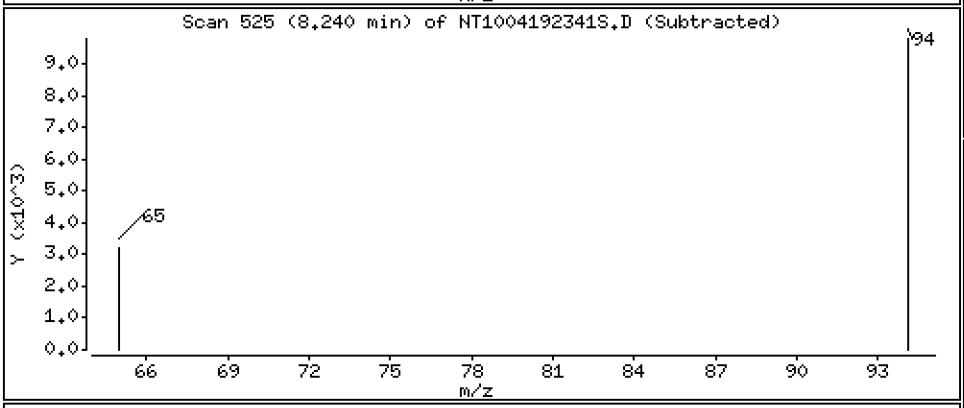
Column diameter: 0.25

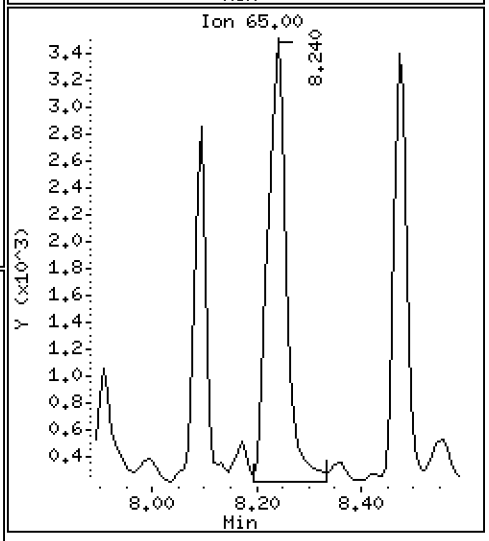
3 Phenol

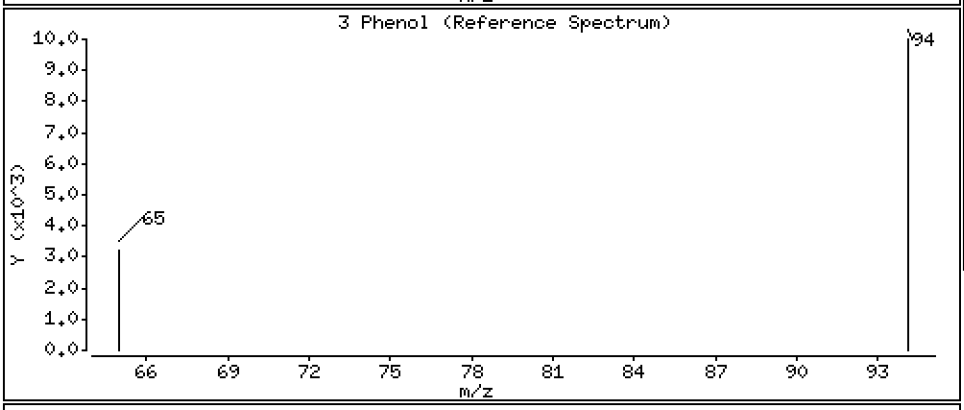
Concentration: 0.2808 ug/L

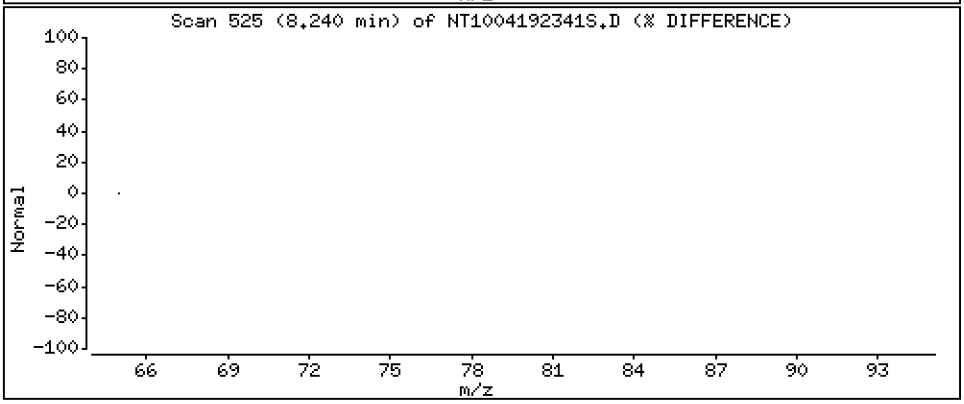












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192341S.D

Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

Volume Injected (uL): 1.0

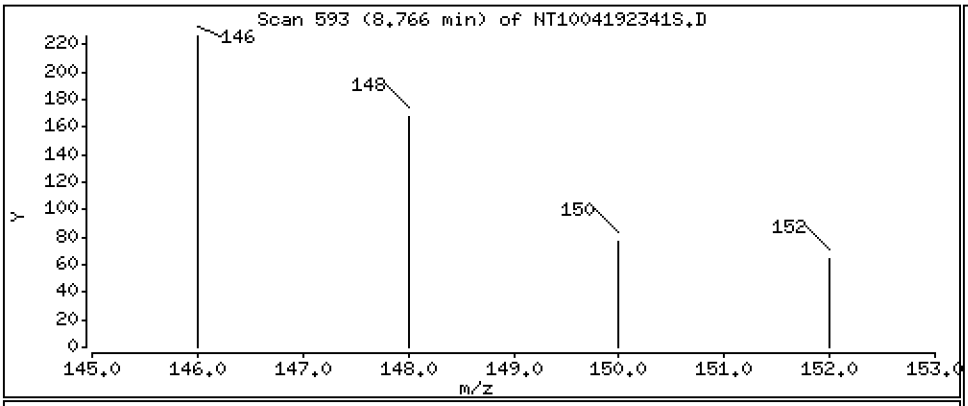
Operator: DSD

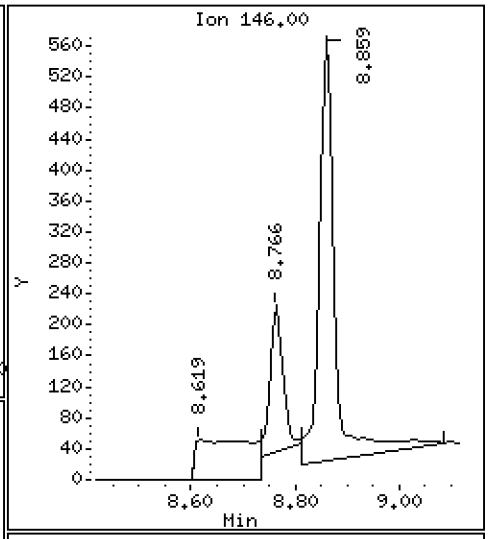
Column phase: ZB-5msi

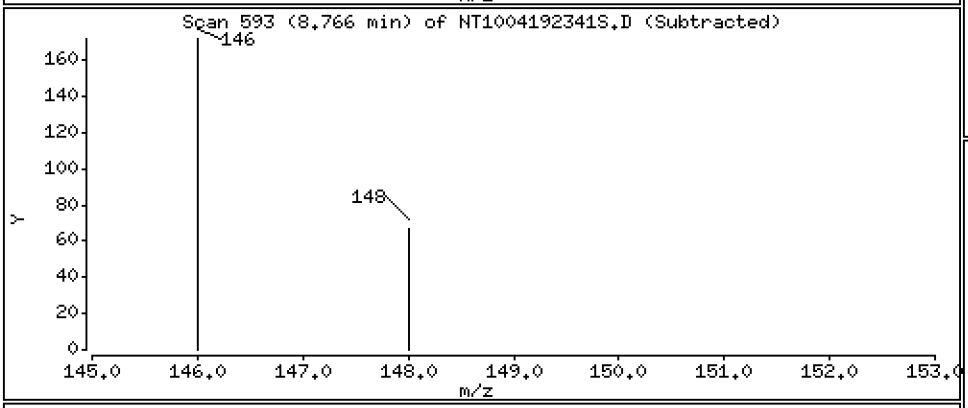
Column diameter: 0.25

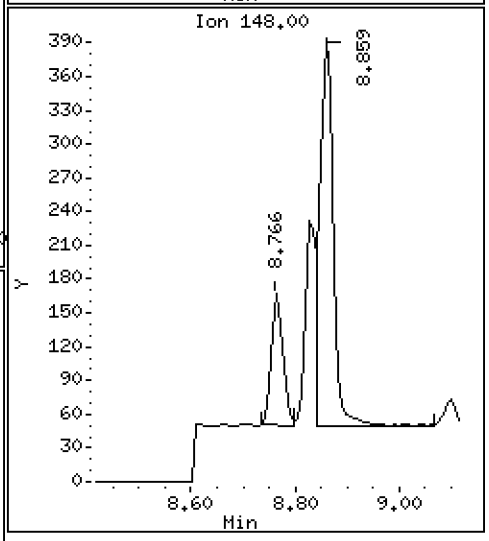
7 1,3-Dichlorobenzene

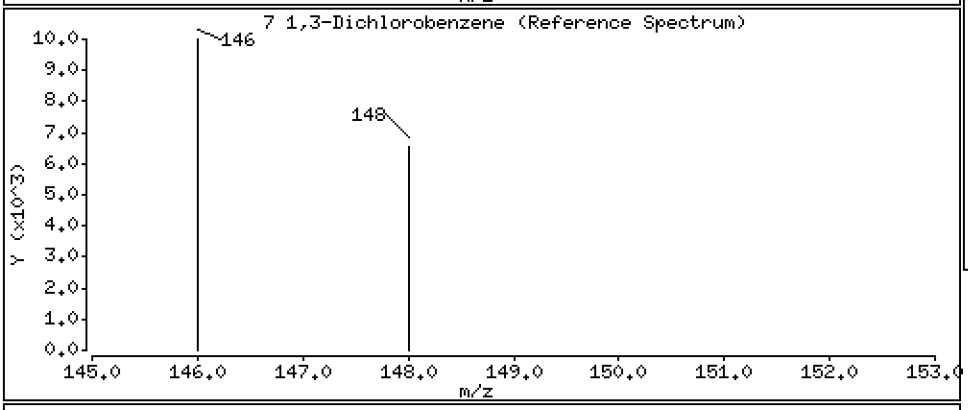
Concentration: 0.005465 ug/L

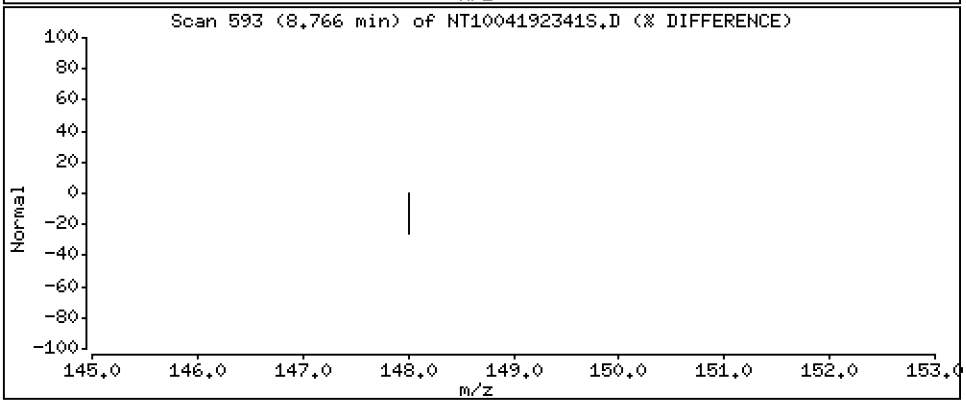












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

Volume Injected (uL): 1.0

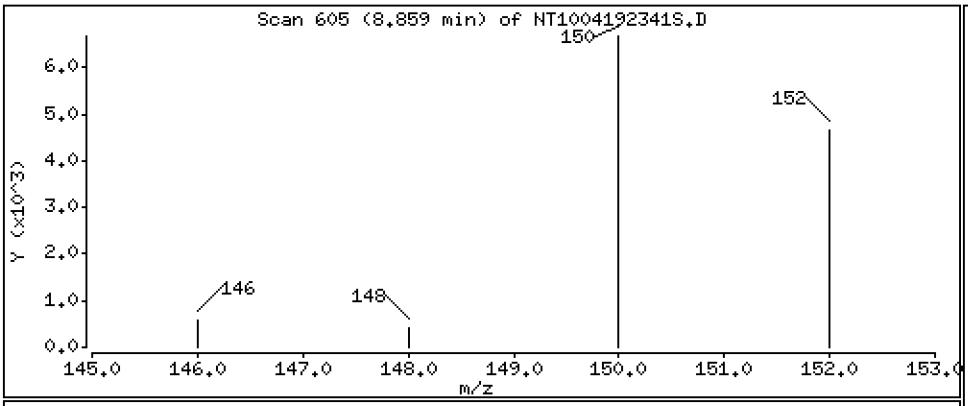
Operator: DSD

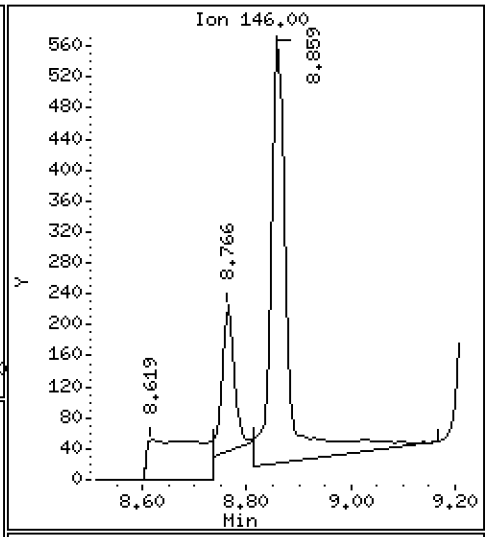
Column phase: ZB-5msi

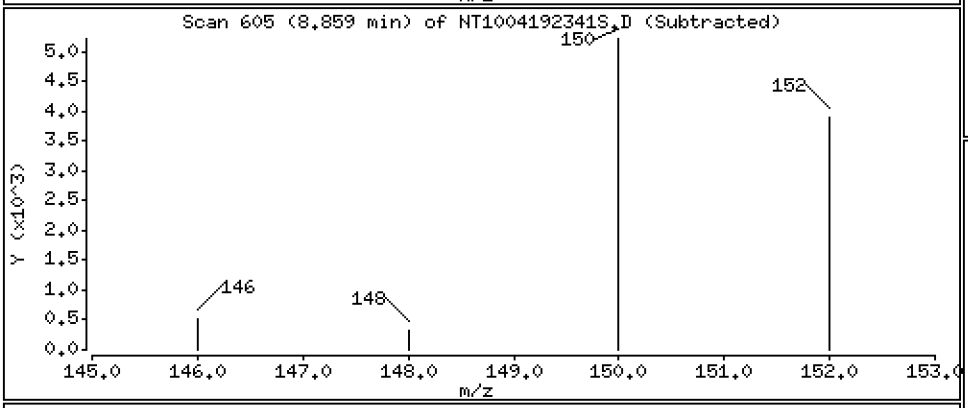
Column diameter: 0.25

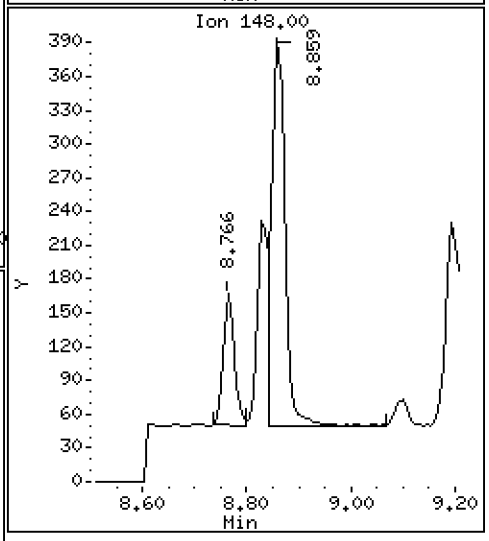
9 1,4-Dichlorobenzene

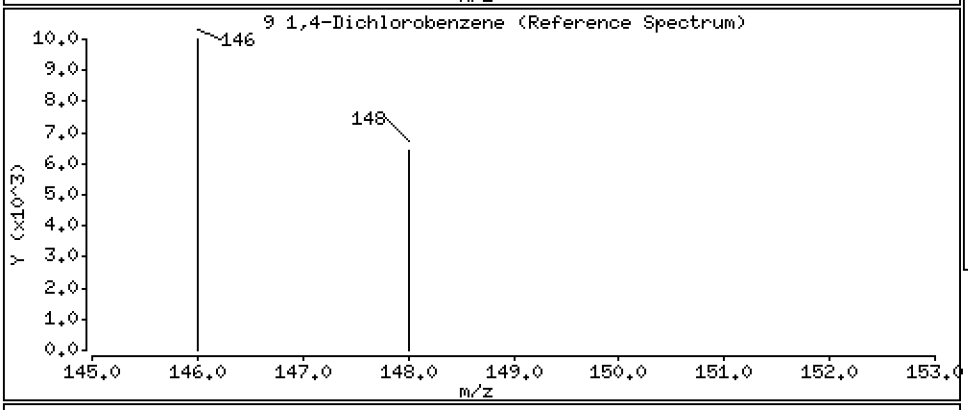
Concentration: 0.02027 ug/L

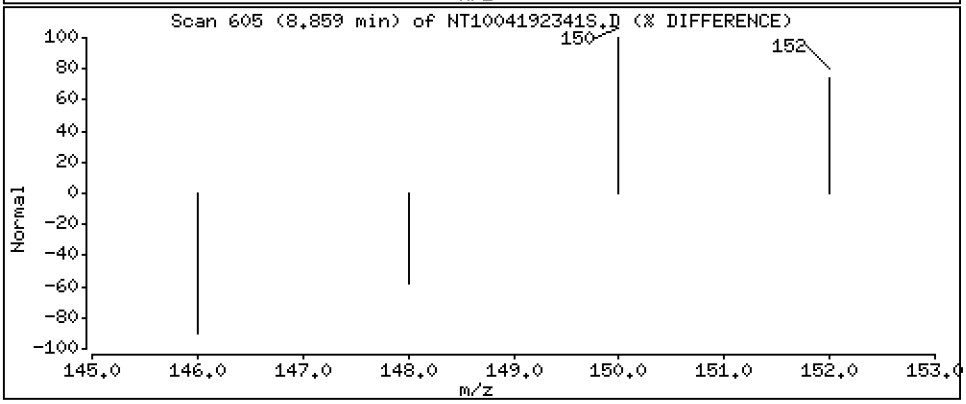












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

Volume Injected (uL): 1.0

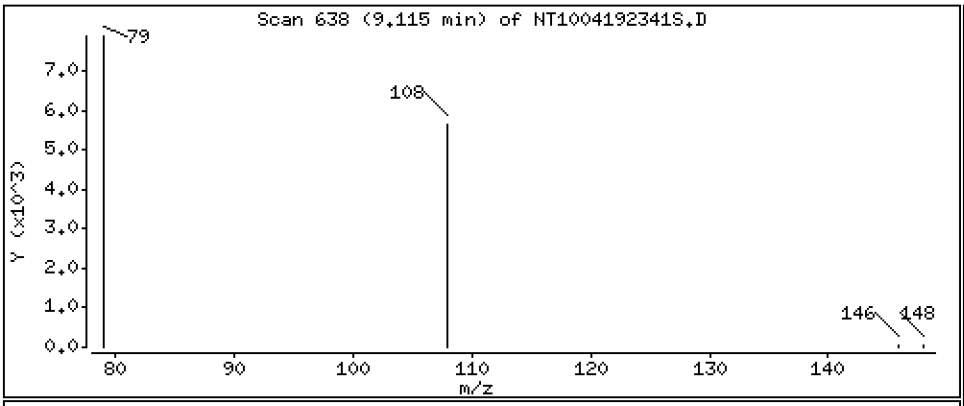
Operator: DSD

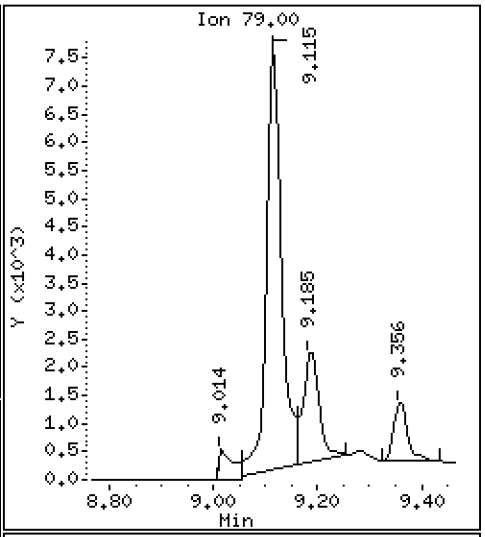
Column phase: ZB-5msi

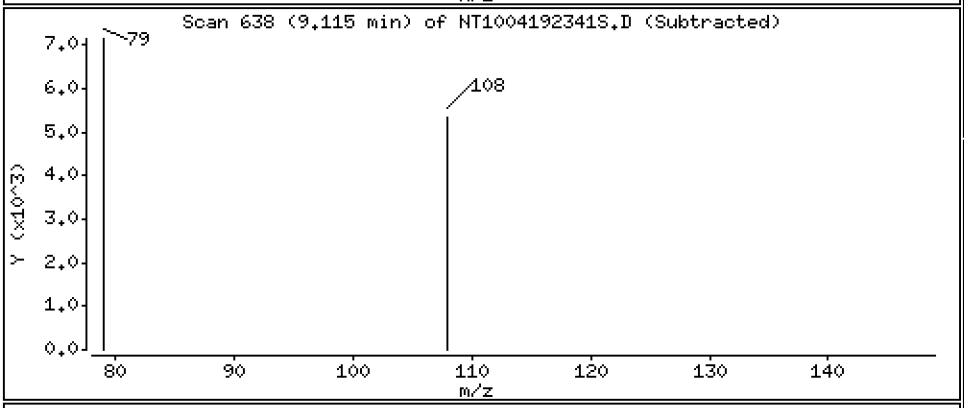
Column diameter: 0.25

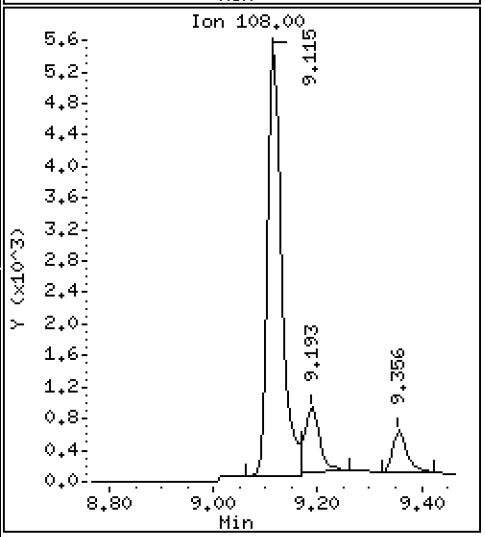
11 Benzyl alcohol

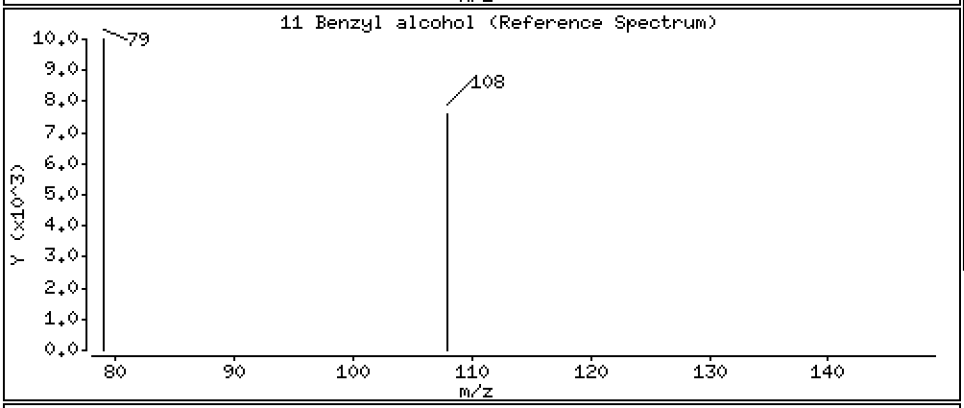
Concentration: 0.3968 ug/L

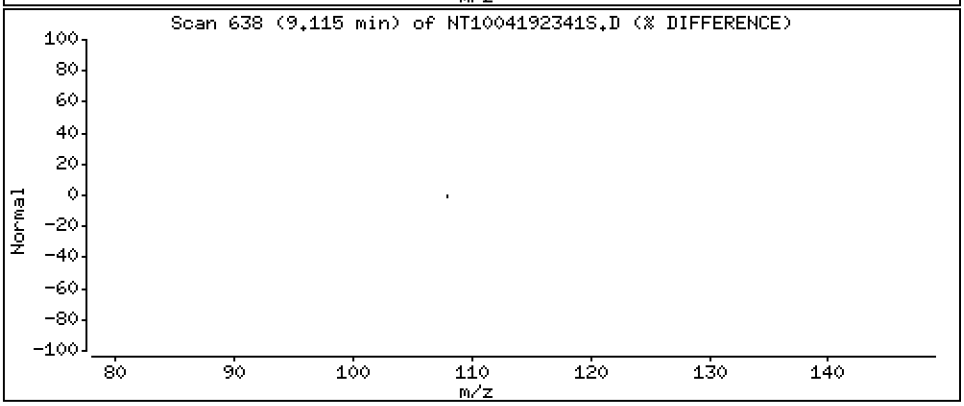












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192341S.D

Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

Volume Injected (uL): 1.0

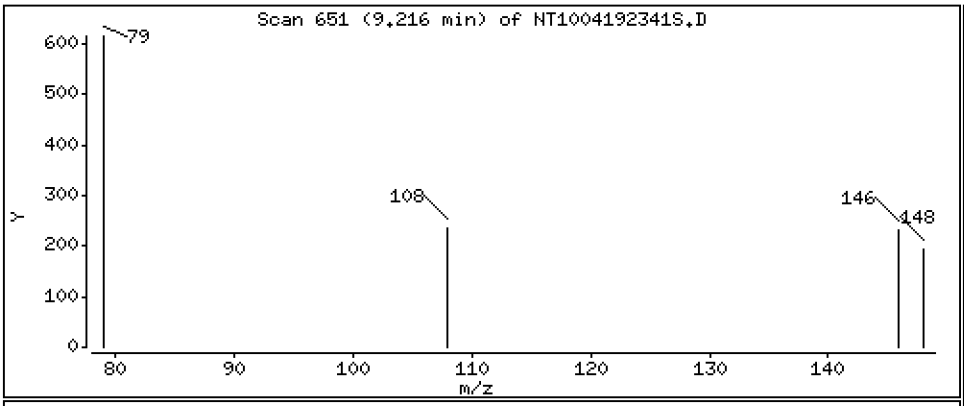
Operator: DSD

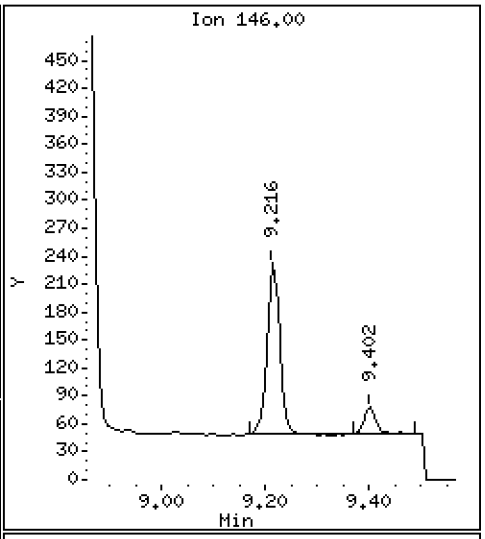
Column phase: ZB-5msi

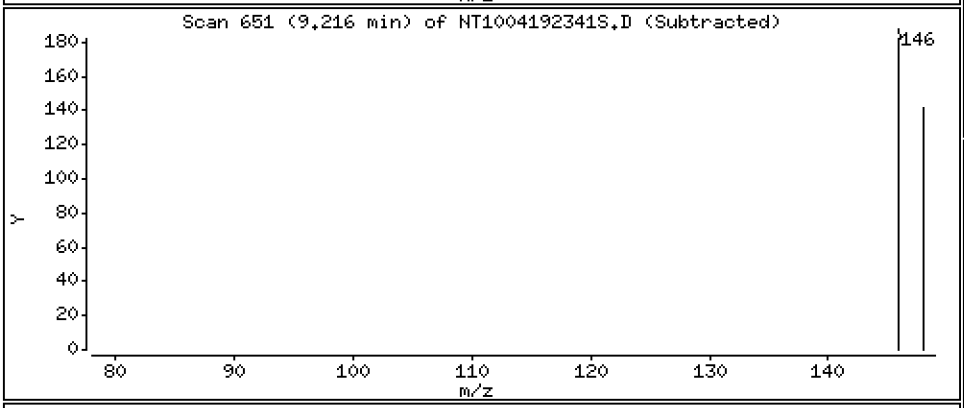
Column diameter: 0.25

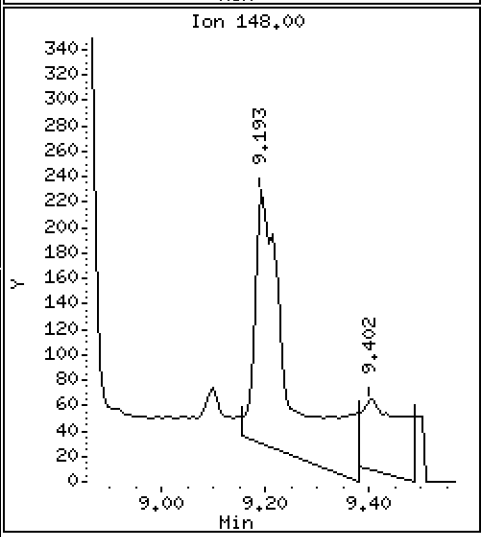
12 1,2-Dichlorobenzene

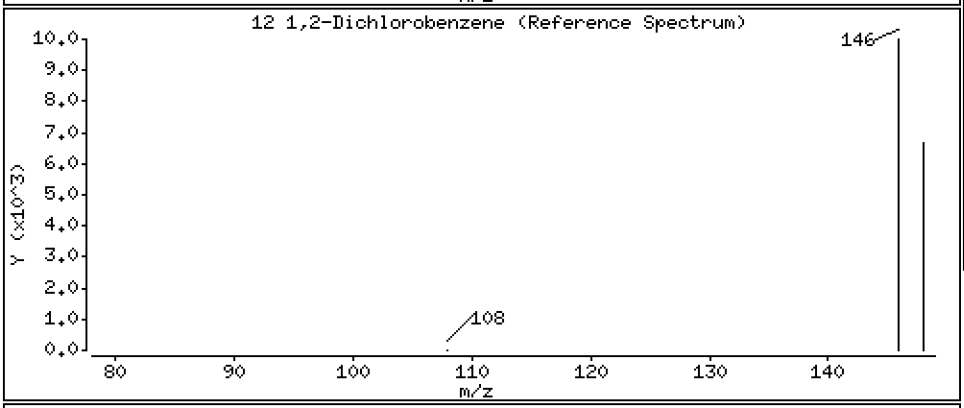
Concentration: 0.005046 ug/L

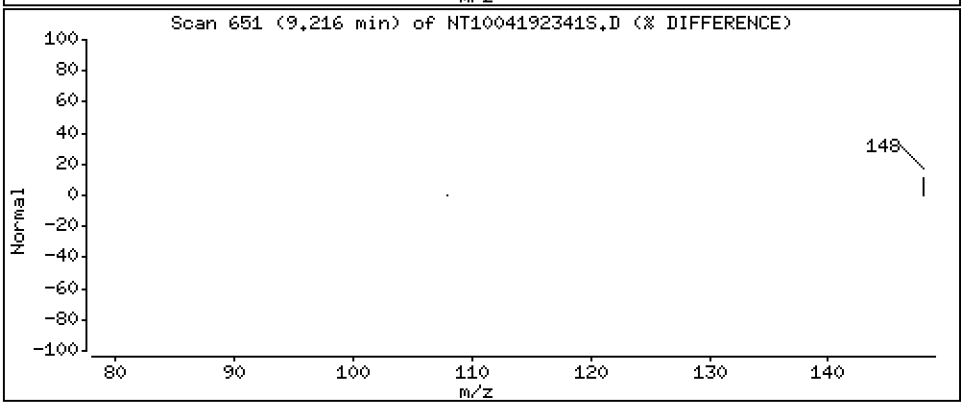












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192341S.D

Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

Volume Injected (uL): 1.0

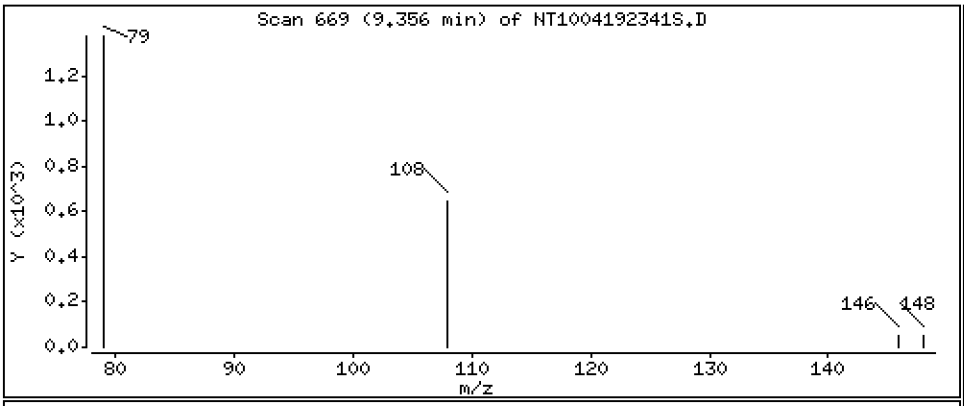
Operator: DSD

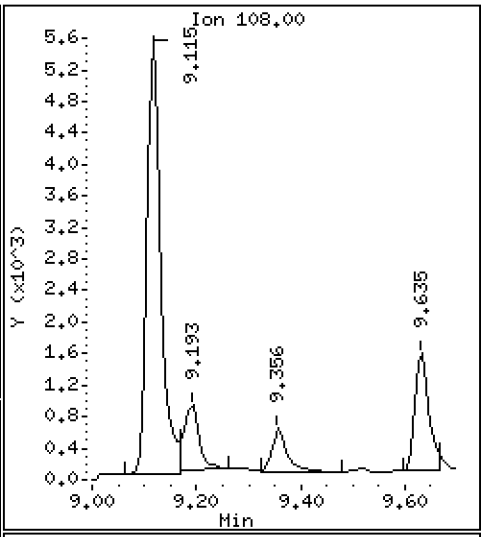
Column phase: ZB-5msi

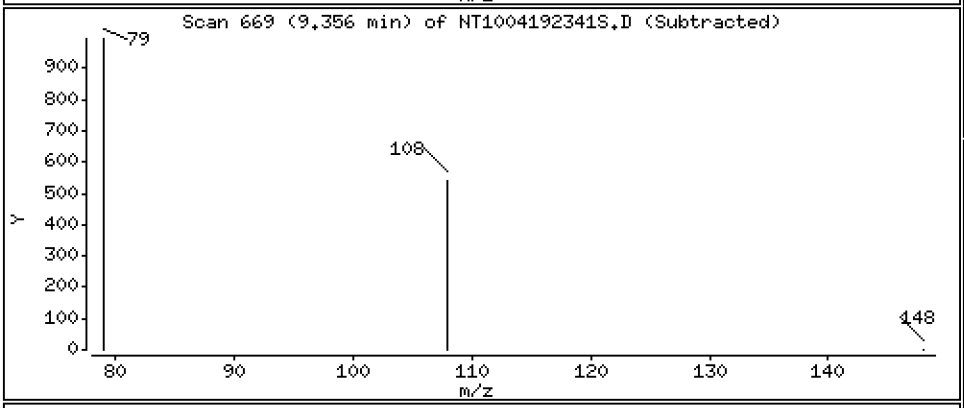
Column diameter: 0.25

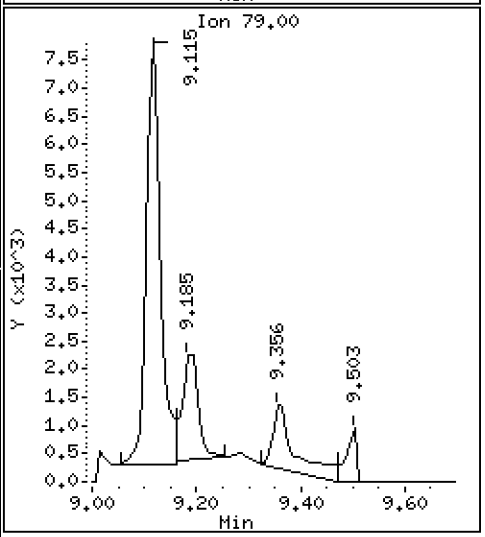
13 2-Methylphenol

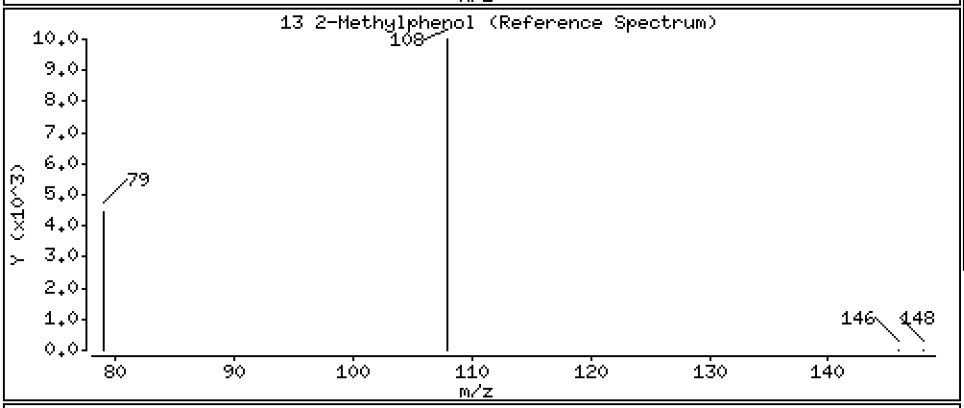
Concentration: 0.02638 ug/L

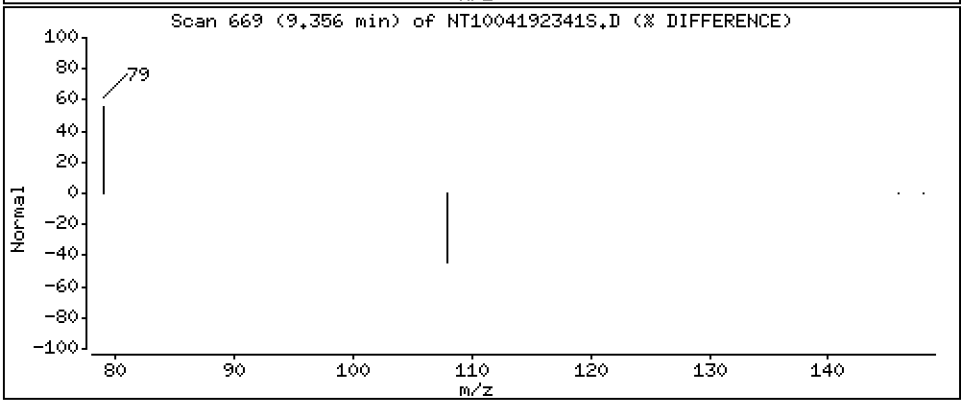












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

Volume Injected (uL): 1.0

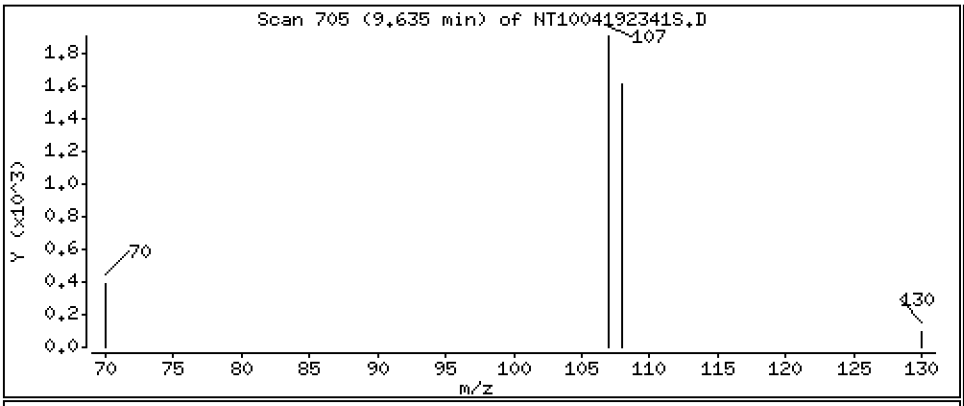
Operator: DSD

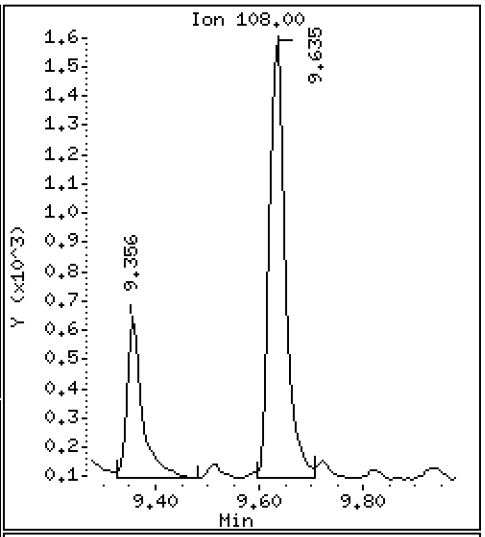
Column phase: ZB-5msi

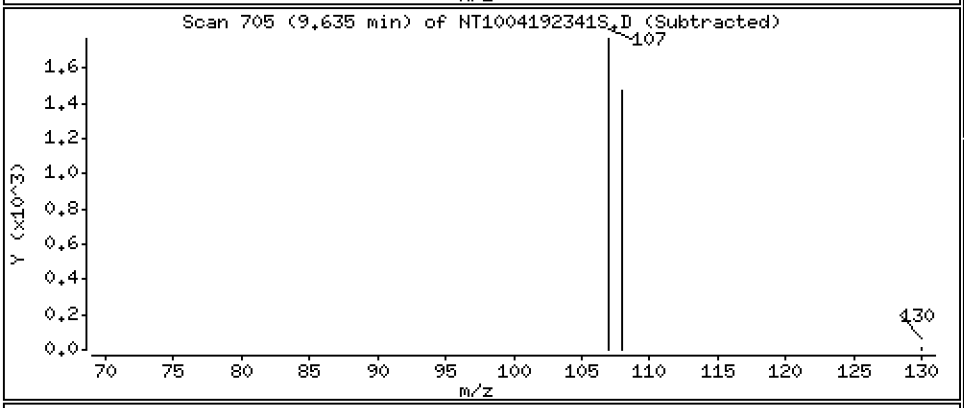
Column diameter: 0.25

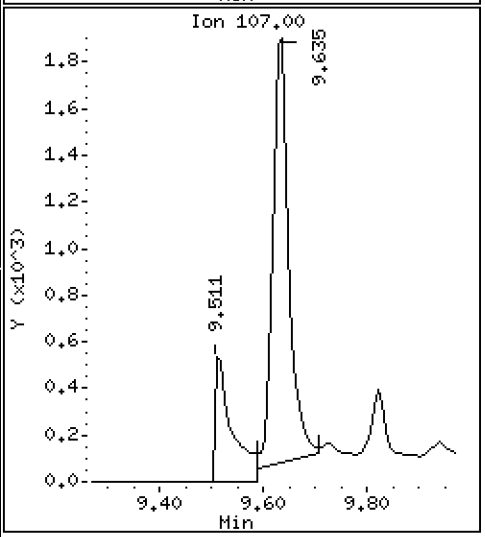
15 4-Methylphenol

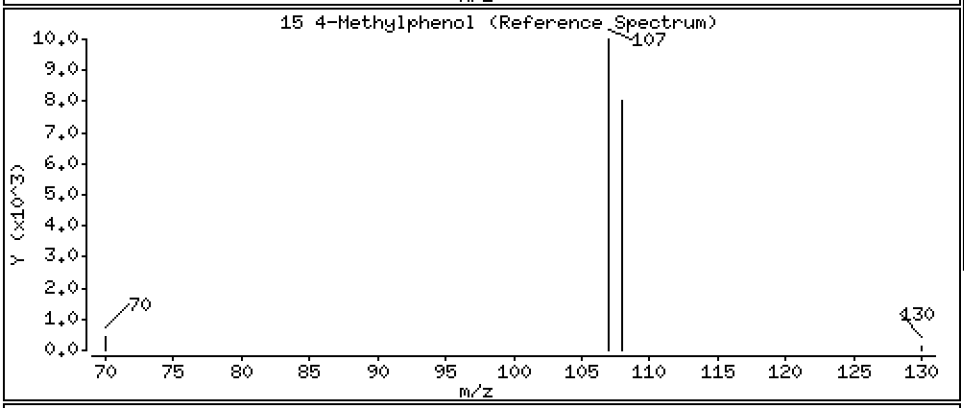
Concentration: 0.06907 ug/L

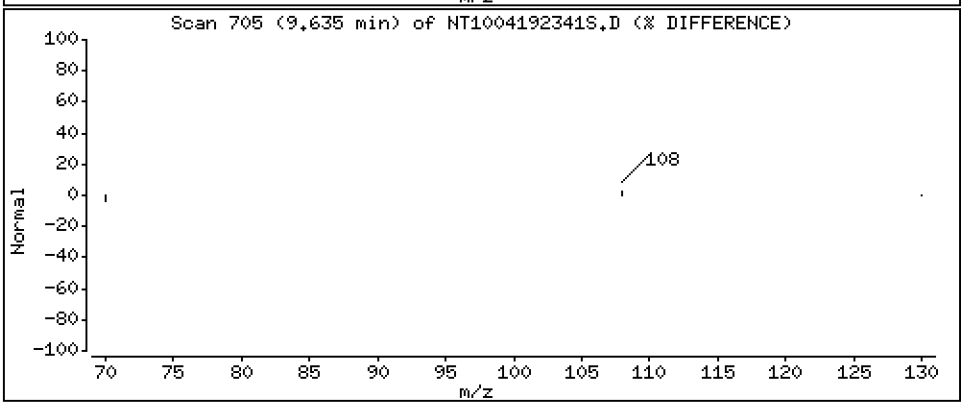












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

Volume Injected (uL): 1.0

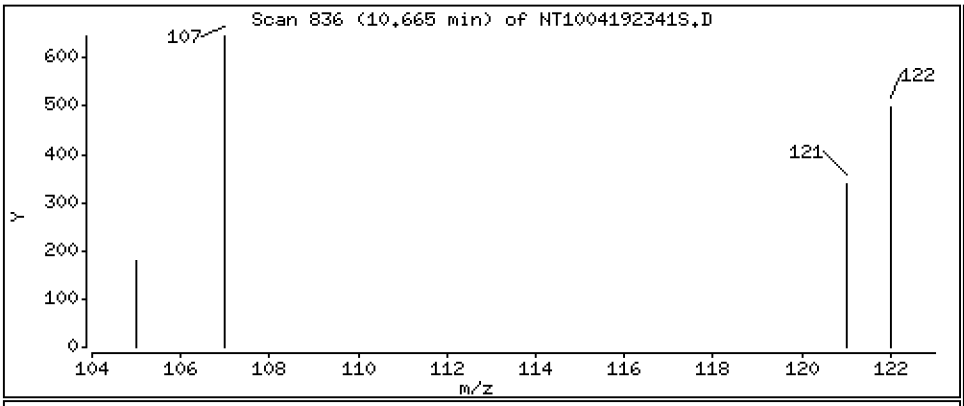
Operator: DSD

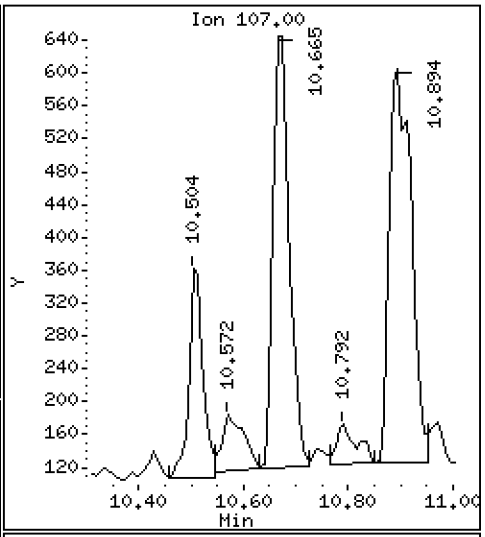
Column phase: ZB-5msi

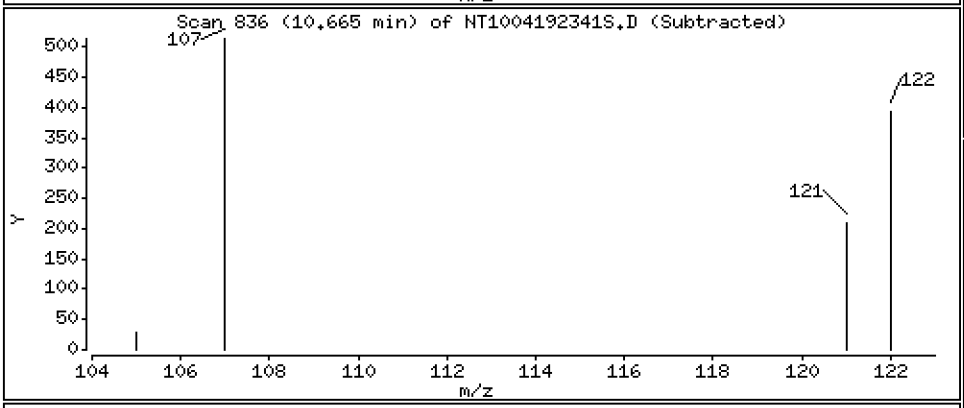
Column diameter: 0.25

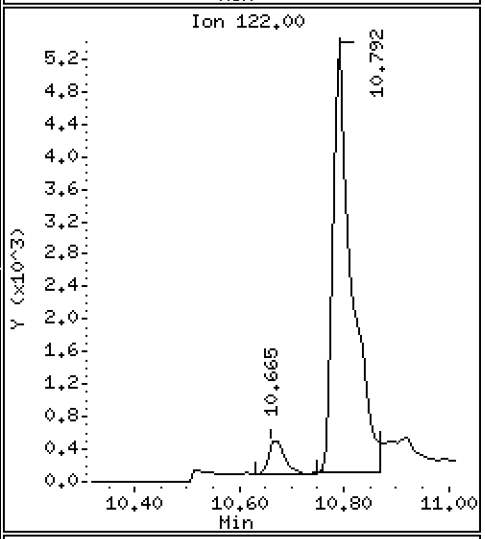
22 2,4-Dimethylphenol

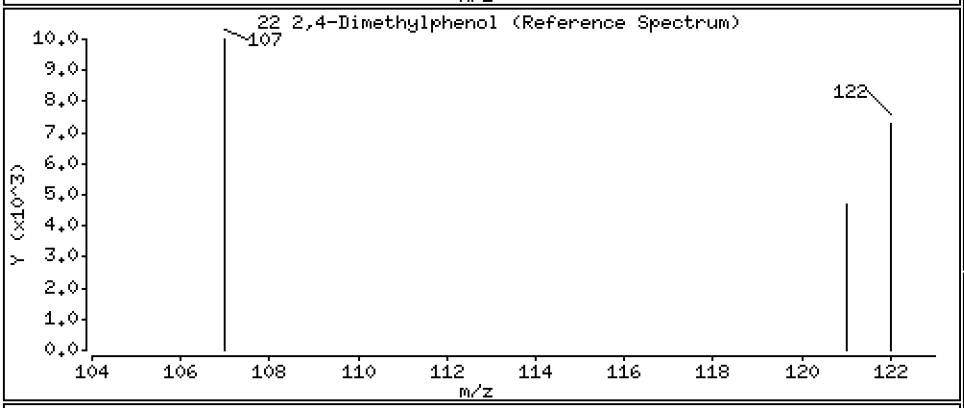
Concentration: 0.02395 ug/L

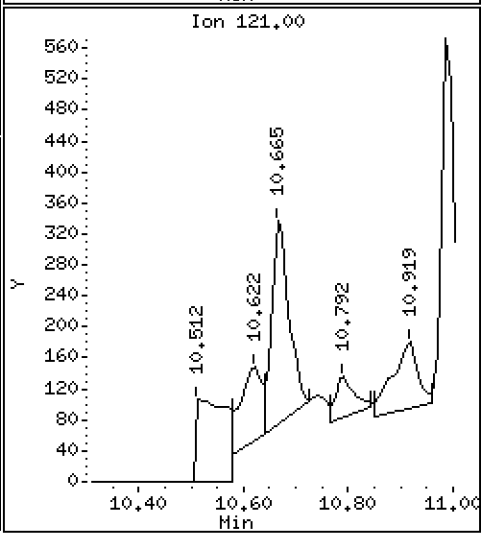


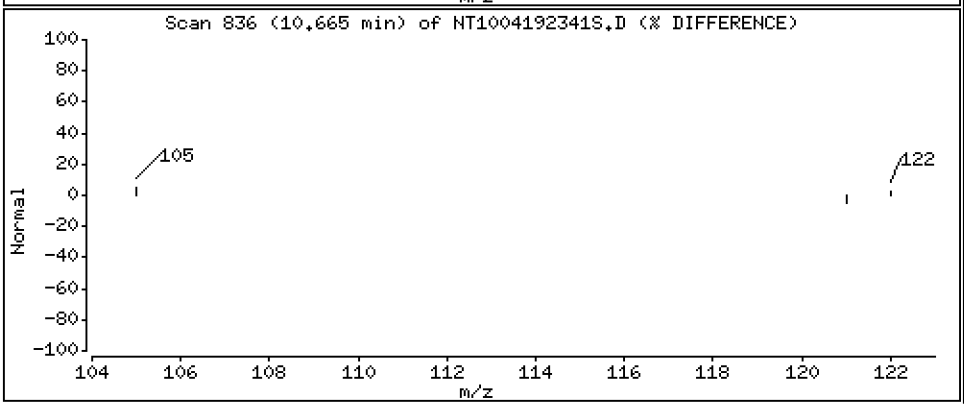












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Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

Volume Injected (uL): 1.0

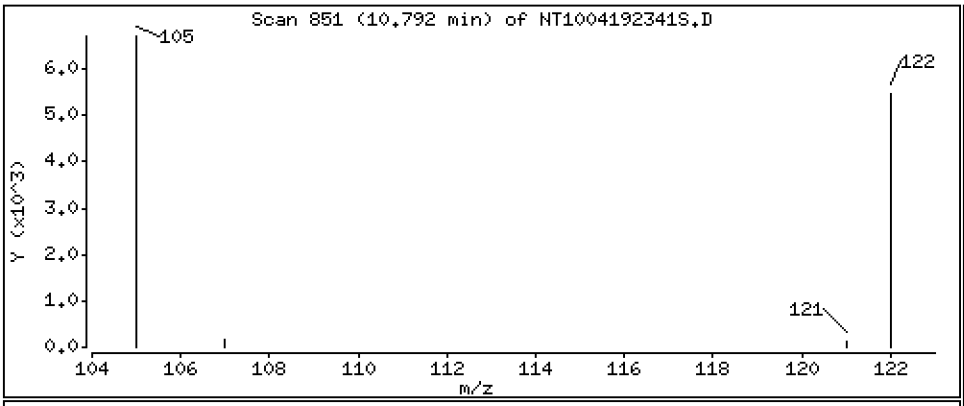
Operator: DSD

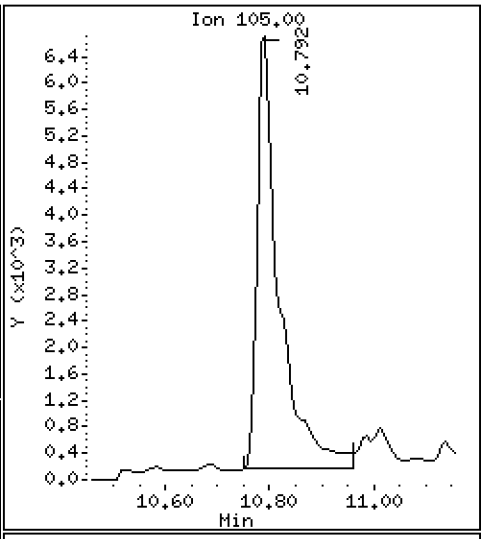
Column phase: ZB-5msi

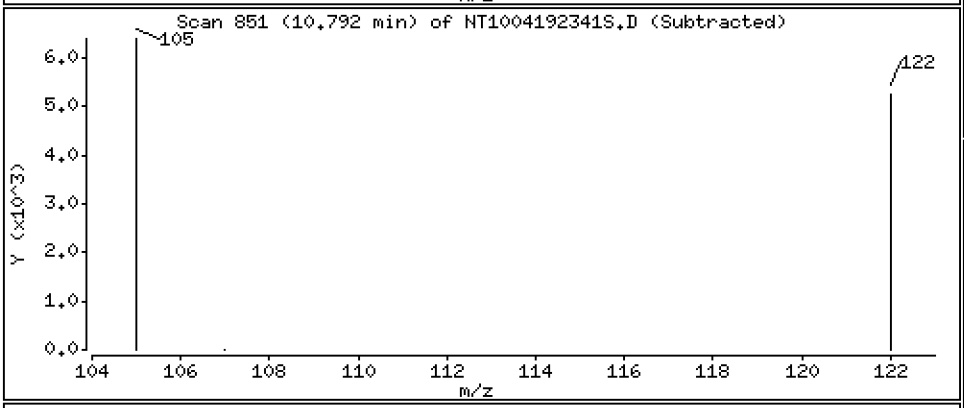
Column diameter: 0.25

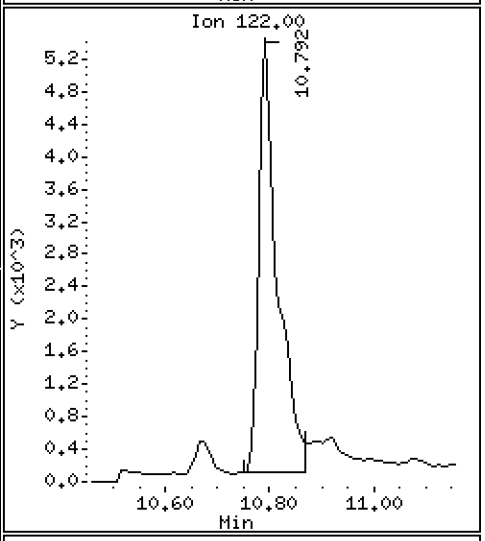
24 Benzoic acid

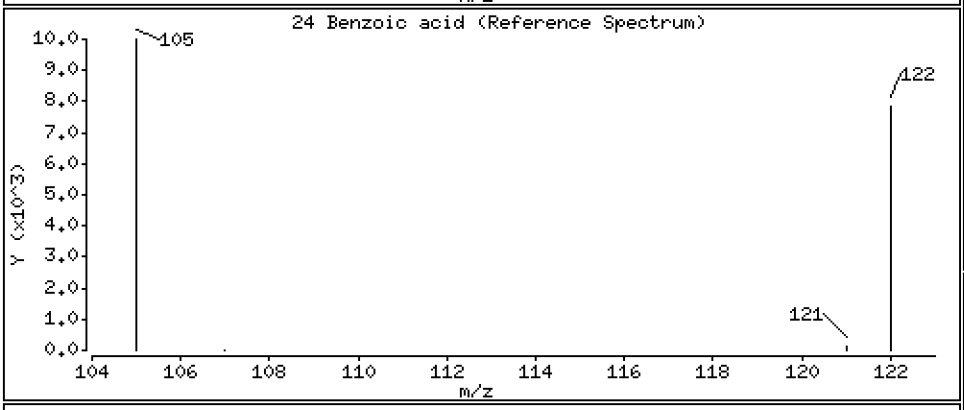
Concentration: 0.7273 ug/L

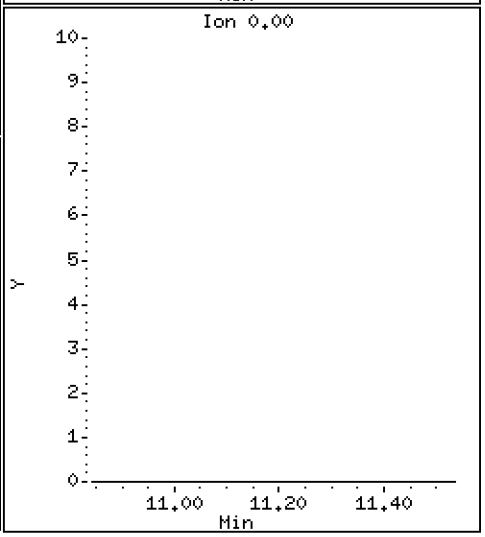


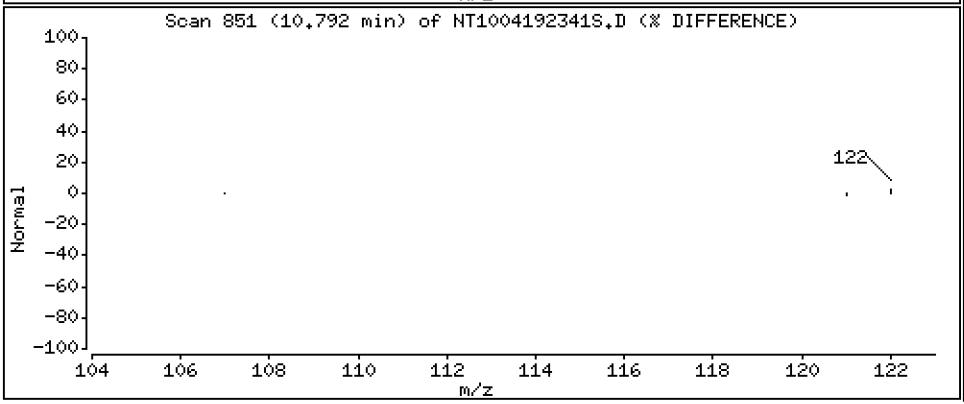












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192341S.D

Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

Volume Injected (uL): 1.0

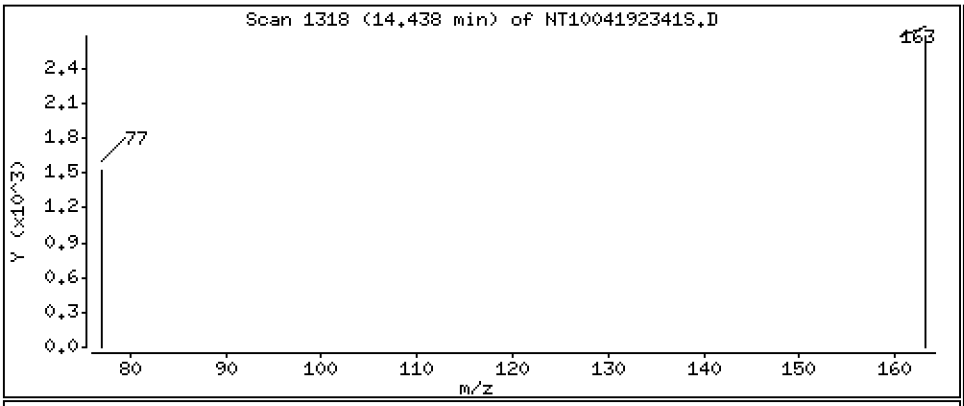
Operator: DSD

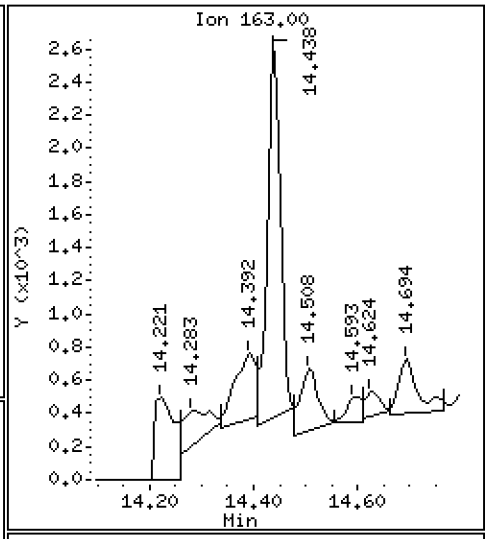
Column phase: ZB-5msi

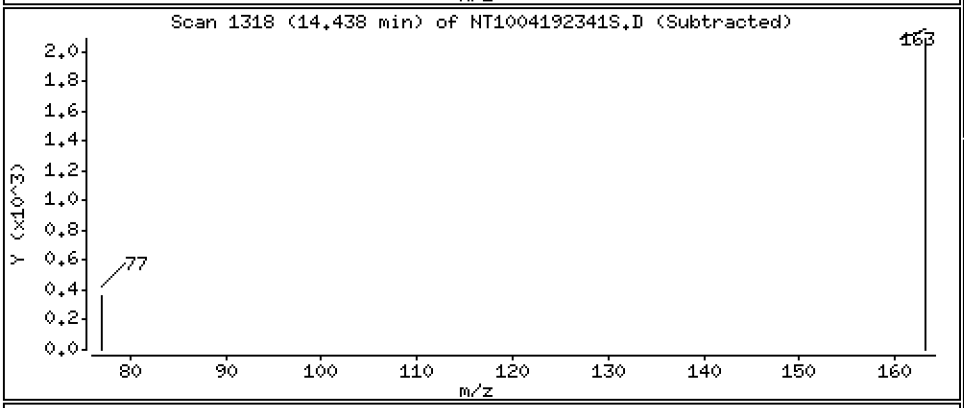
Column diameter: 0.25

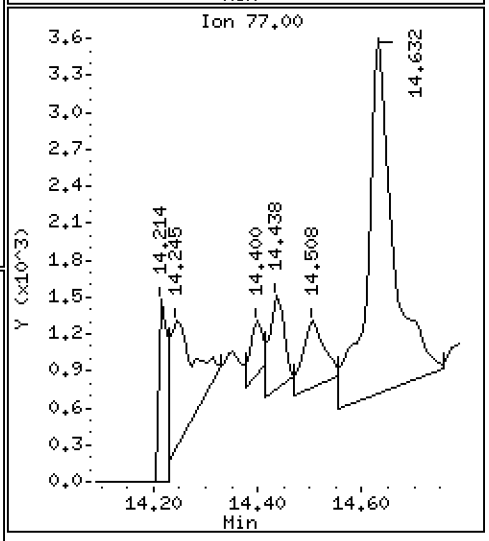
39 Dimethylphthalate

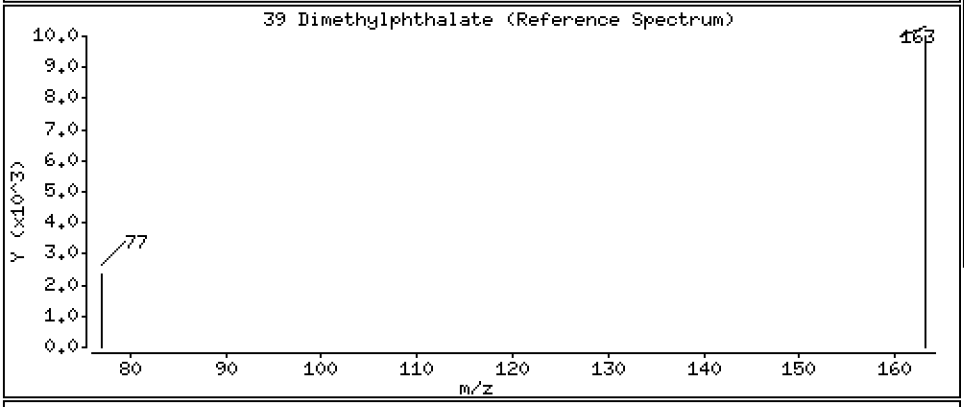
Concentration: 0.03929 ug/L

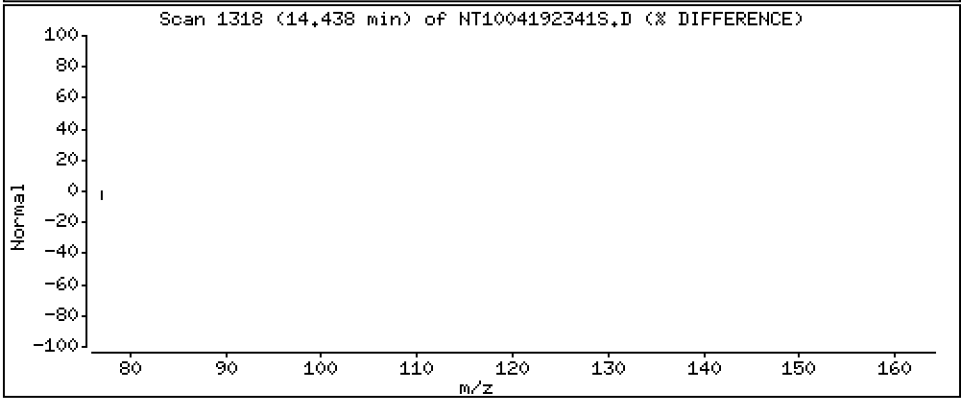












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192341S.D

Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

Volume Injected (uL): 1.0

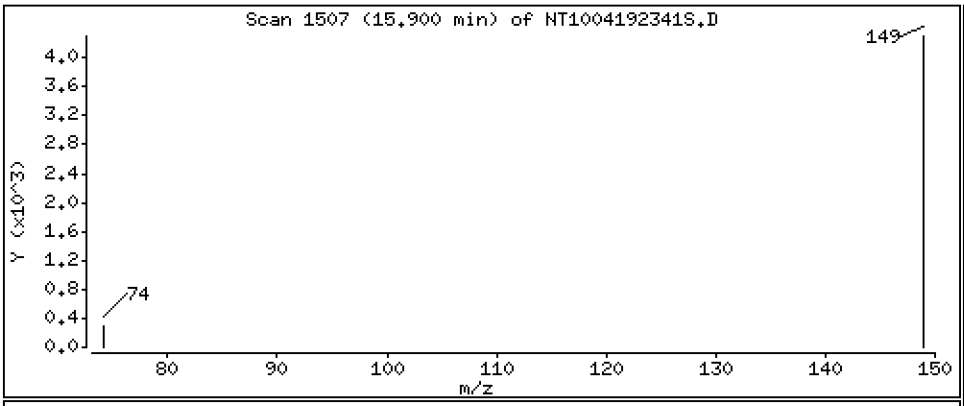
Operator: DSD

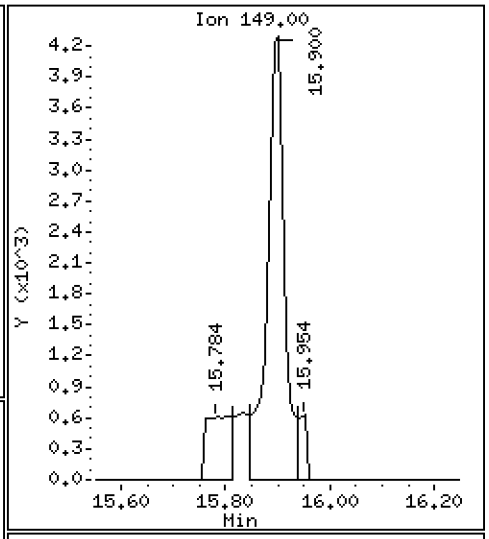
Column phase: ZB-5msi

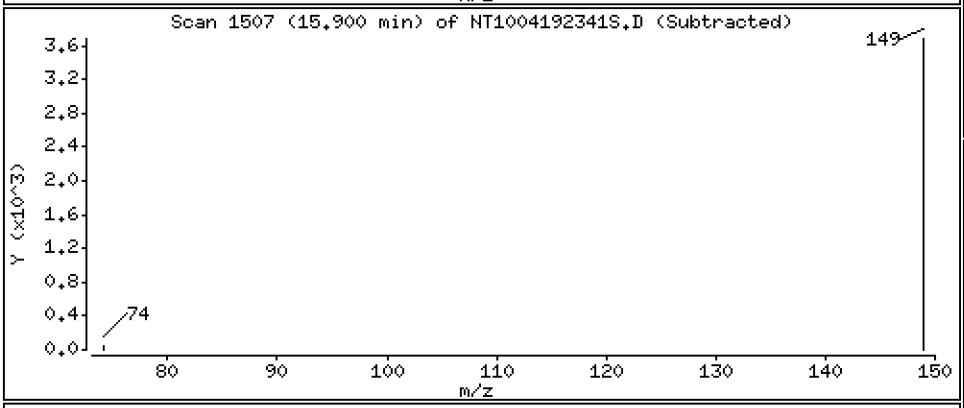
Column diameter: 0.25

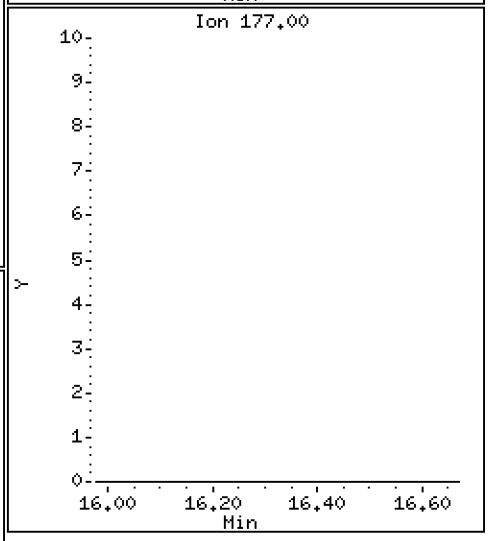
50 Diethylphthalate

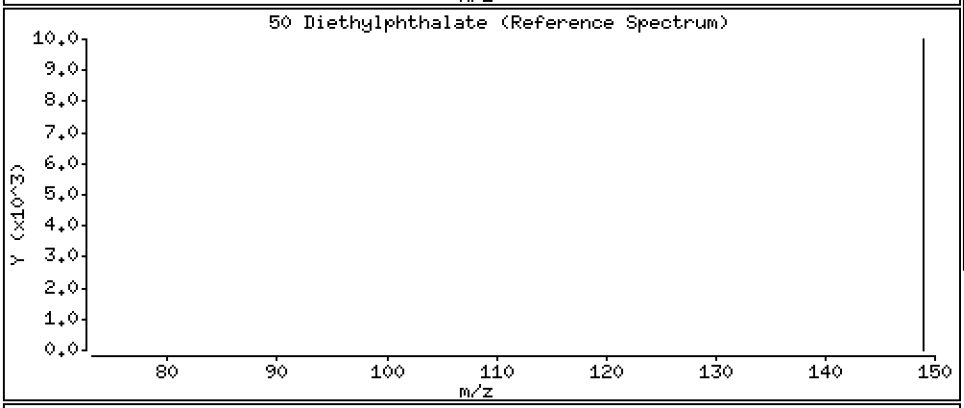
Concentration: 0.09767 ug/L

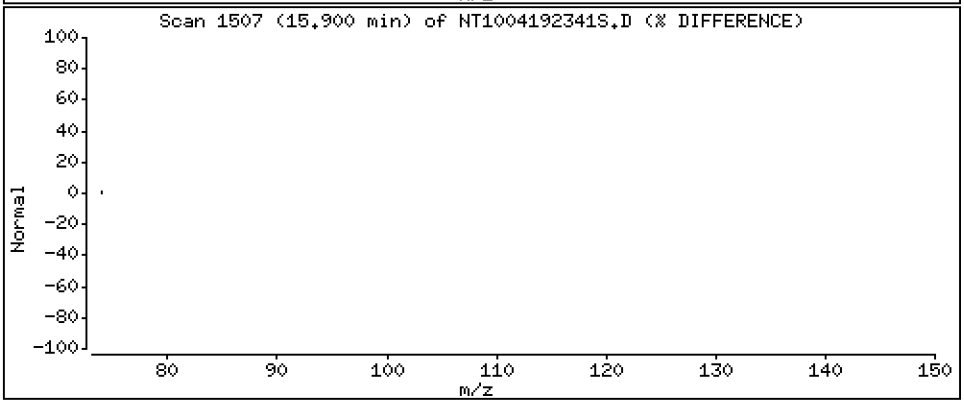












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192341S.D

Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

Volume Injected (uL): 1.0

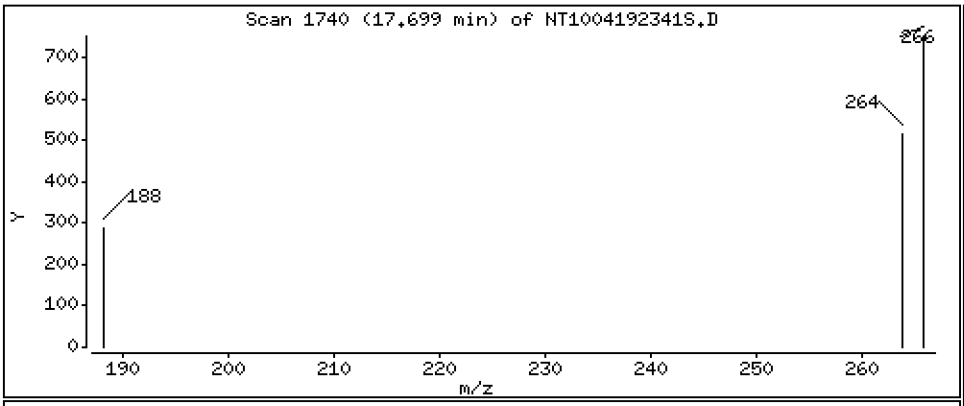
Operator: DSD

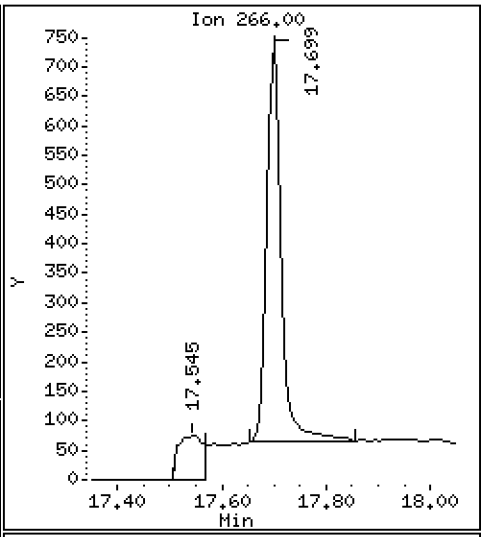
Column phase: ZB-5msi

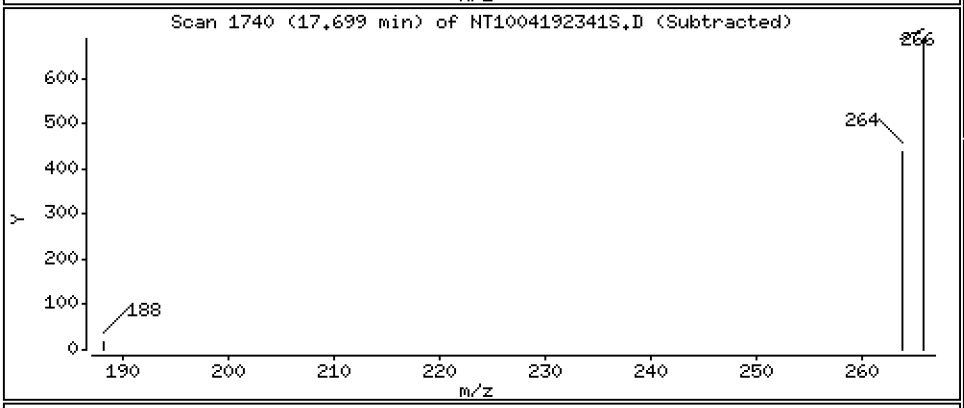
Column diameter: 0.25

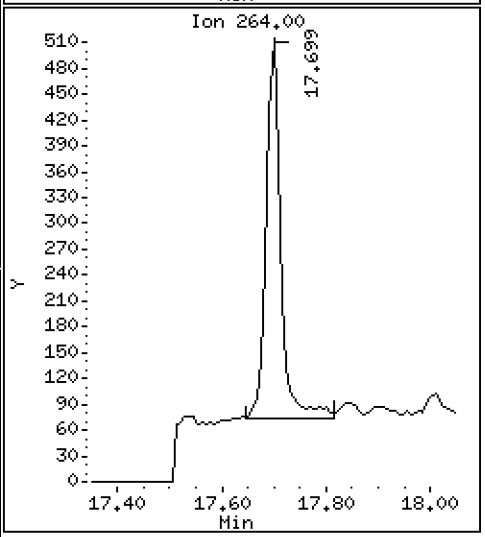
58 Pentachlorophenol

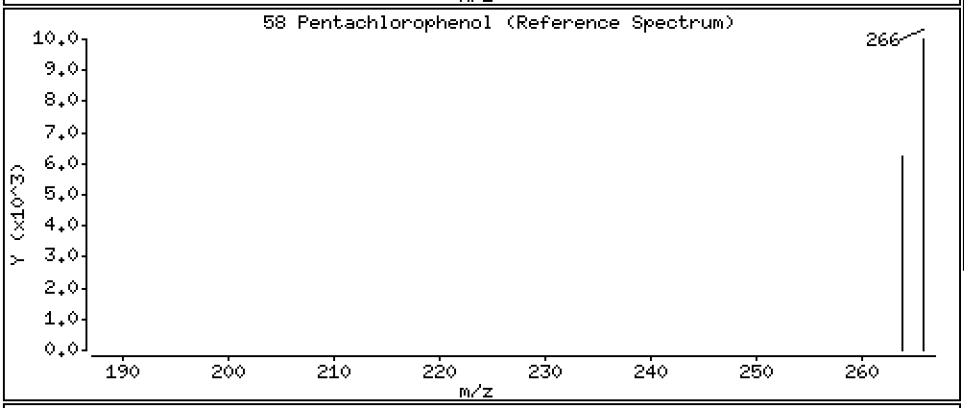
Concentration: 0.06438 ug/L

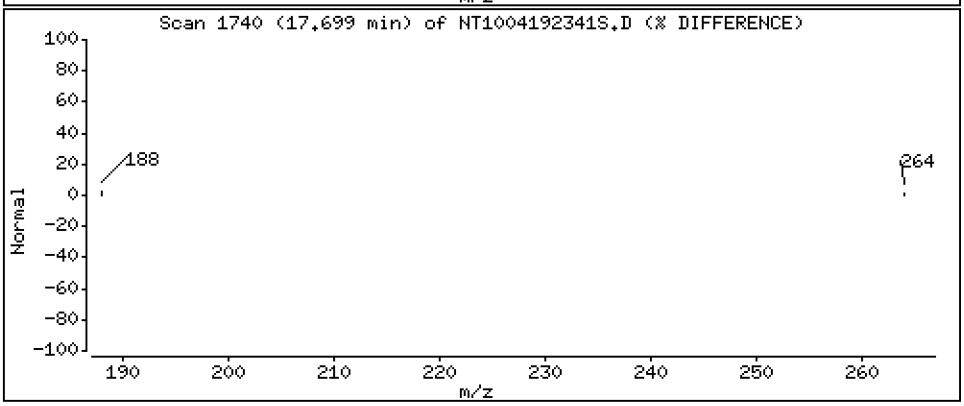












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192341S.D

Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

Volume Injected (uL): 1.0

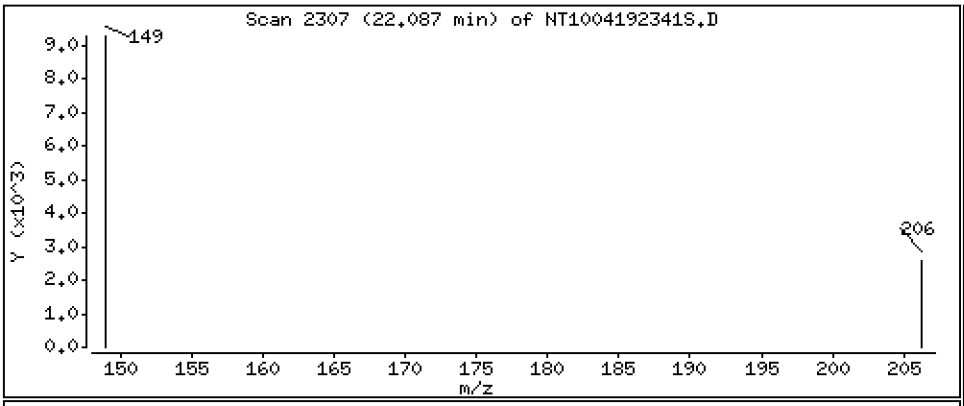
Operator: DSD

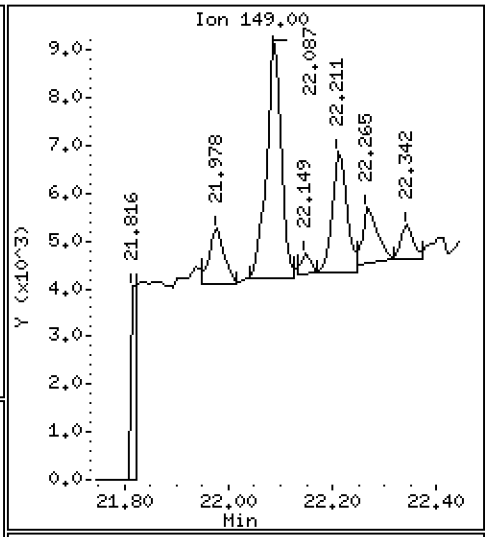
Column phase: ZB-5msi

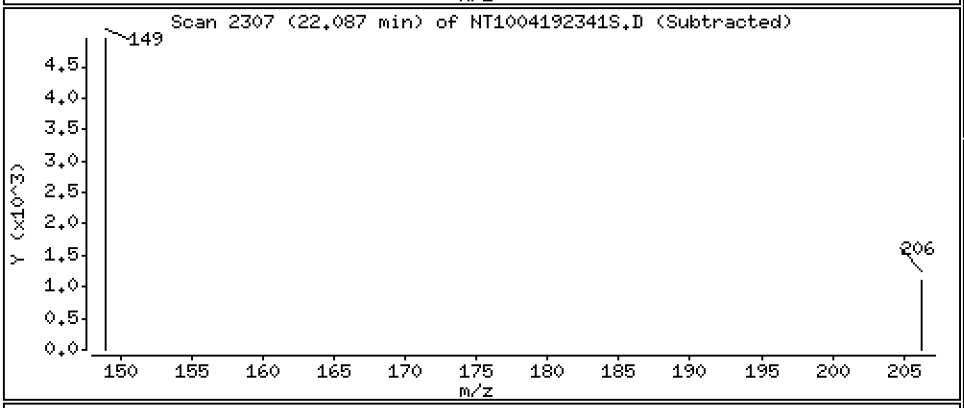
Column diameter: 0.25

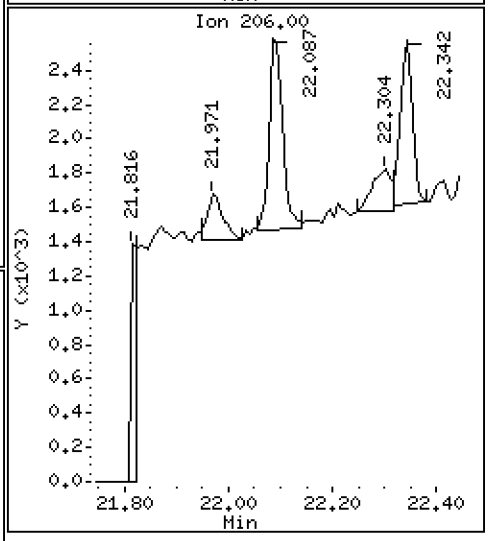
67 Butylbenzylphthalate

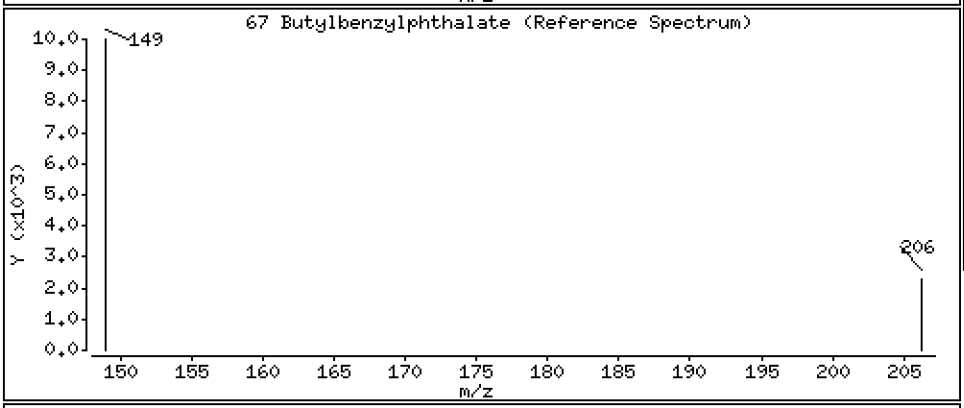
Concentration: 0.1152 ug/L

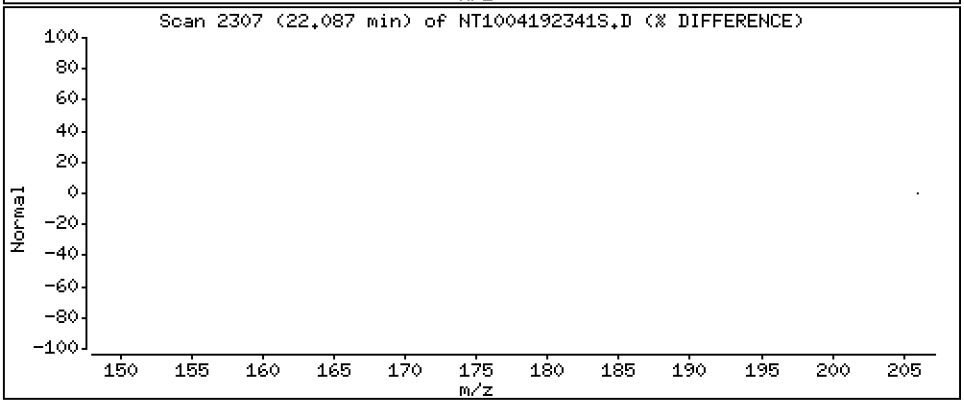












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192341S.D

Date : 20-APR-2023 12:45

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-01

Volume Injected (uL): 1.0

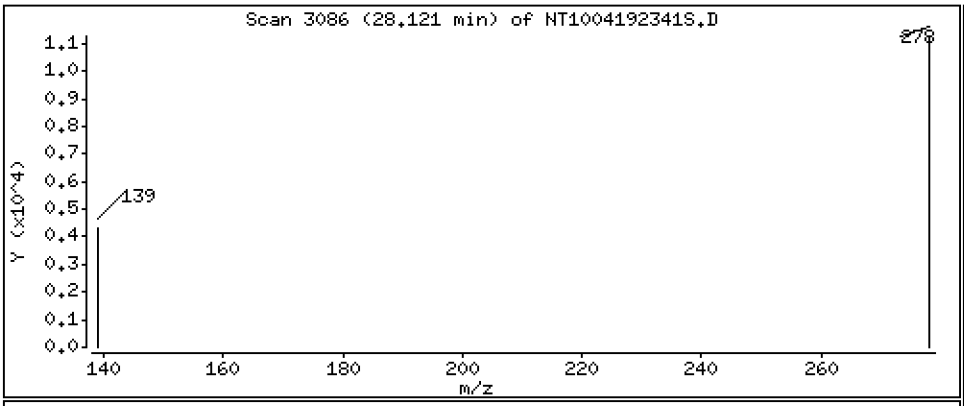
Operator: DSD

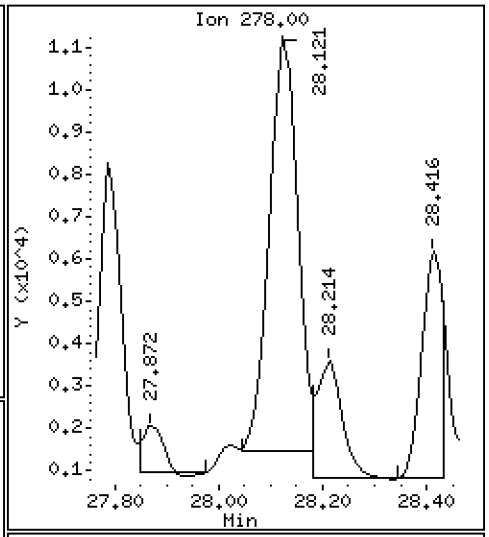
Column phase: ZB-5msi

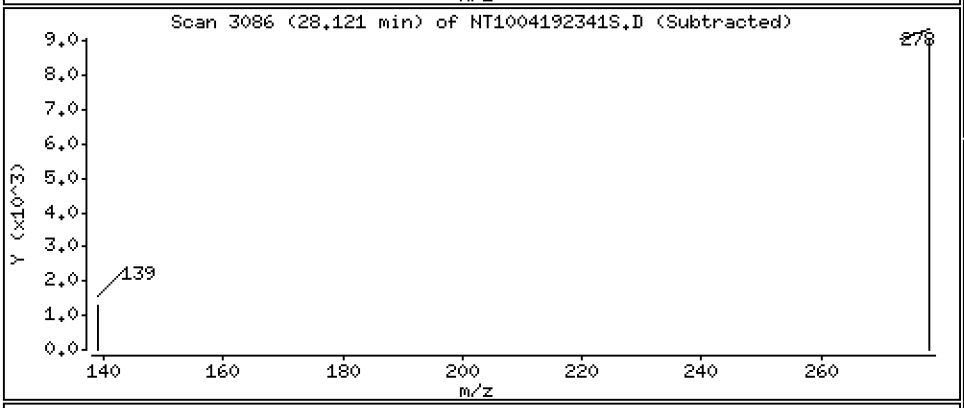
Column diameter: 0.25

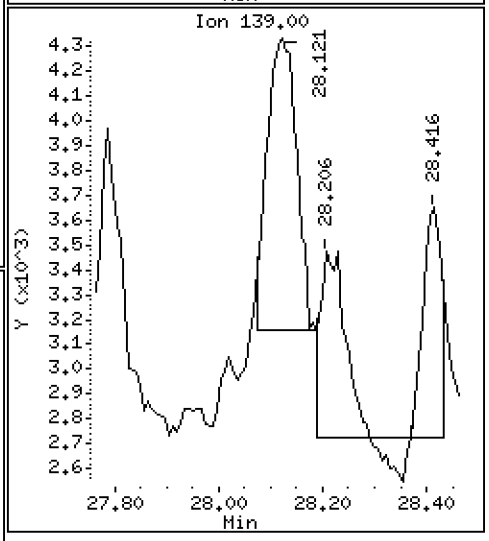
79 Dibenzo(a,h)anthracene

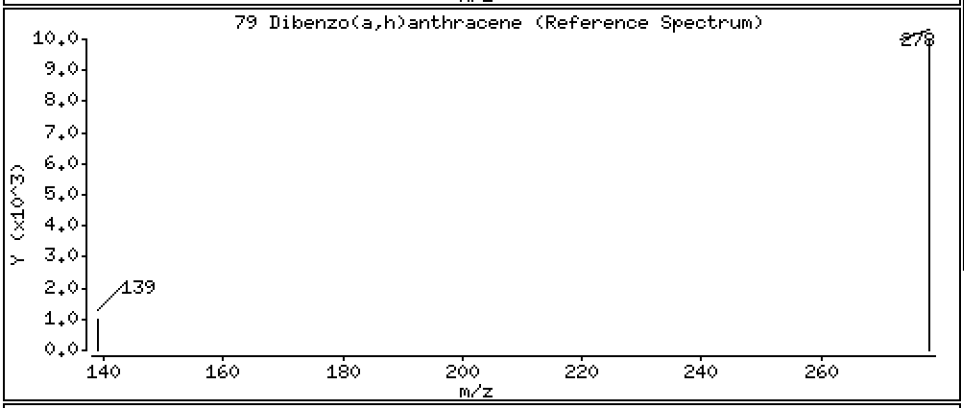
Concentration: 0.1564 ug/L

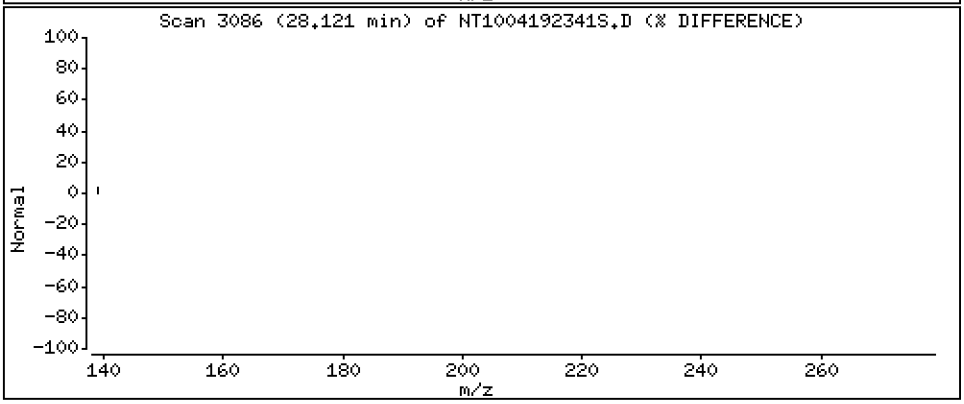












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192341S.D
Lab Smp Id: 23C0752-01
Inj Date : 20-APR-2023 12:45 MS Autotune Date: 16-JAN-2023 17:42
Operator : DSD Inst ID: nt10.i
Smp Info : 23C0752-01
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\SIMABN2.m
Meth Date : 21-Apr-2023 13:41 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.625	6.617	(0.750)	186009	4.02793	4.028(R)
3	Phenol	94	8.240	8.240	(0.933)	17789	0.28078	0.2808
7	1,3-Dichlorobenzene	146	8.765	8.766	(0.992)	324	0.00547	0.005465
* 8	1,4-Dichlorobenzene-d4	152	8.835	8.835	(1.000)	152285	4.00000	
9	1,4-Dichlorobenzene	146	8.859	8.859	(1.003)	1160	0.02027	0.02027
11	Benzyl alcohol	79	9.115	9.115	(1.032)	14574	0.39679	0.3968
12	1,2-Dichlorobenzene	146	9.216	9.216	(1.043)	284	0.00505	0.005046
13	2-Methylphenol	108	9.355	9.348	(1.059)	1158	0.02638	0.02638
15	4-Methylphenol	108	9.635	9.627	(1.090)	3151	0.06907	0.06907
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
22	2,4-Dimethylphenol	107	10.664	10.656	(0.943)	1164	0.02395	0.02395
24	Benzoic acid	105	10.792	10.809	(0.954)	19379	0.72733	0.7273
26	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
* 27	Naphthalene-d8	136	11.312	11.312	(1.000)	562371	4.00000	
30	Hexachlorobutadiene	225	Compound Not Detected.					
39	Dimethylphthalate	163	14.438	14.446	(0.968)	3830	0.03929	0.03929
* 42	Acenaphthene-d10	162	14.918	14.918	(1.000)	308902	4.00000	
50	Diethylphthalate	149	15.899	15.900	(1.066)	9863	0.09767	0.09767
54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
57	Hexachlorobenzene	284	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.699	17.699	(0.986)	1239	0.06438	0.06438
*	59 Phenanthrene-d10	188	17.954	17.947	(1.000)	580315	4.00000	
$	66 Terphenyl-d14	244	21.142	21.142	(0.917)	299331	2.95681	2.957(R)
	67 Butylbenzylphthalate	149	22.086	22.094	(0.958)	9419	0.11523	0.1152
*	69 Chrysene-d12	240	23.047	23.047	(1.000)	621314	4.00000	
*	77 Perylene-d12	264	25.602	25.594	(1.000)	725654	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.120	28.113	(1.098)	37243	0.15645	0.1564
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192341S.D
Lab Smp Id: 23C0752-01
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\SIMABN2.m
Misc Info:

Calibration Date: 20-APR-2023
Calibration Time: 08:57
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	128281	64141	256562	152285	18.71
27 Naphthalene-d8	458707	229354	917414	562371	22.60
42 Acenaphthene-d10	243296	121648	486592	308902	26.97
59 Phenanthrene-d10	433853	216927	867706	580315	33.76
69 Chrysene-d12	435413	217707	870826	621314	42.70
77 Perylene-d12	490854	245427	981708	725654	47.83

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.84	8.34	9.34	8.84	-0.00
27 Naphthalene-d8	11.31	10.81	11.81	11.31	-0.00
42 Acenaphthene-d10	14.92	14.42	15.42	14.92	-0.00
59 Phenanthrene-d10	17.95	17.45	18.45	17.95	0.04
69 Chrysene-d12	23.05	22.55	23.55	23.05	-0.00
77 Perylene-d12	25.59	25.09	26.09	25.60	0.03

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

REVIEW SUMMARY FOR FILE - NT1004192341S.D

Lab ID: 23C0752-01
nt10.i, 20230419B.b\20230419B.b\SIMABN2.m,   20-APR-2023 12:45

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230419B.b/NT1004192335S.D

On Column LOD for nt10.i, 20230419B.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1125

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E-SIM

SIM SVOC Organics (Dual scan list)

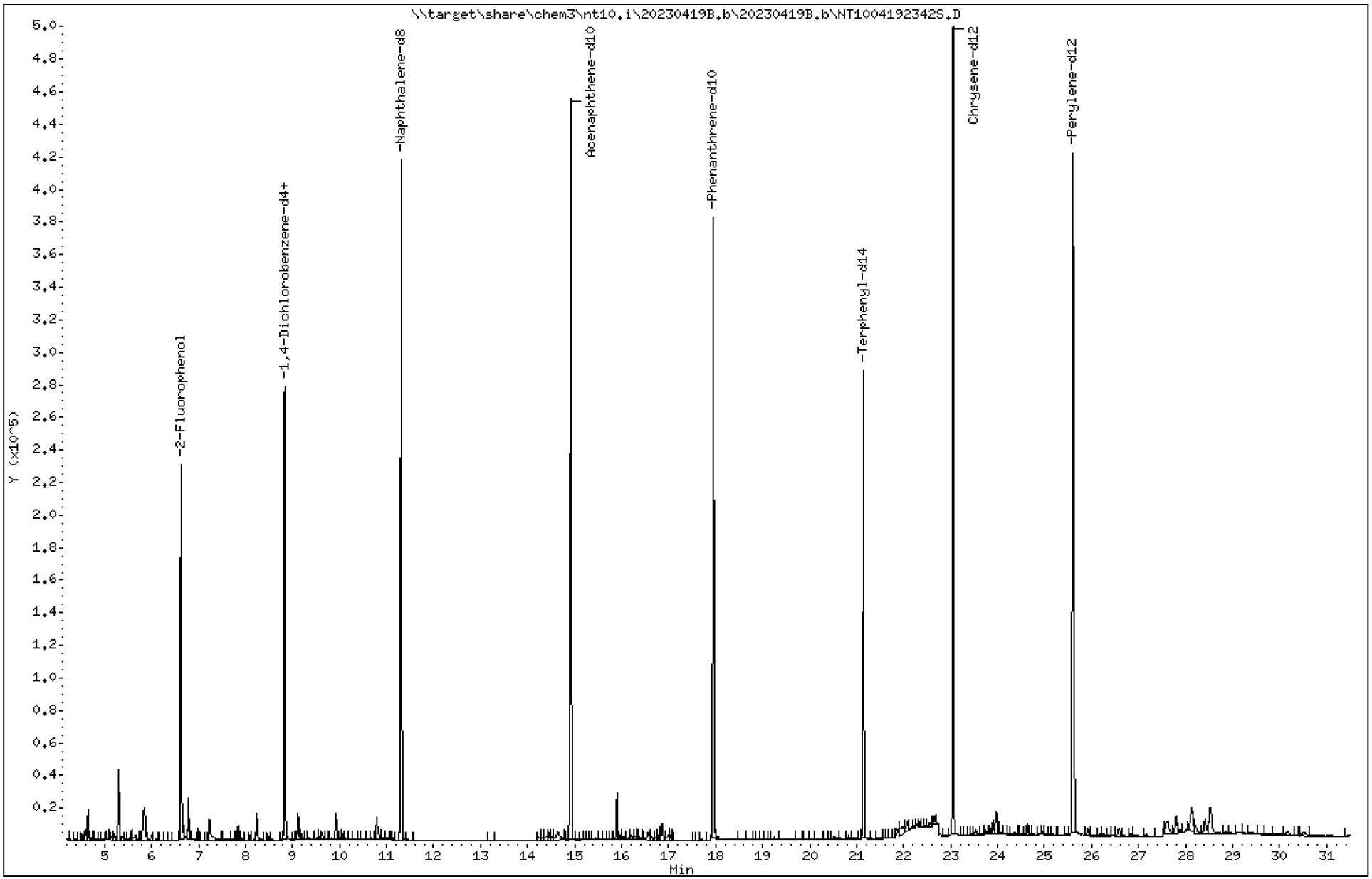
Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-02 A	SDG:	23C0752
Sampled:	03/30/23 11:10	Prepared:	04/03/23 11:31	File ID:	NT1004192342S.D
% Solids:	49.66	Preparation:	EPA 3546 (Microwave)	Analyzed:	04/20/23 13:24
Batch:	BLD0008	Sequence:	SLD0302	Initial/Final:	20.18 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00049
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
106-46-7	1,4-Dichlorobenzene	1	2.3	J	0.6	5.0
95-50-1	1,2-Dichlorobenzene	1	5.0	U	0.7	5.0
100-51-6	Benzyl Alcohol	1	41.5		2.5	20.0
65-85-0	Benzoic acid	1	76.1	J	13.4	99.8
105-67-9	2,4-Dimethylphenol	1	20.0	U	2.2	20.0
120-82-1	1,2,4-Trichlorobenzene	1	5.0	U	2.7	5.0
86-30-6	N-Nitrosodiphenylamine	1	5.0	U	1.3	5.0
87-86-5	Pentachlorophenol	1	4.5	J	2.1	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	748.40	462	61.7	27 - 120	
p-Terphenyl-d14	498.93	345	69.1	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT10041923425.D
Date : 20-APR-2023 13:24
Client ID:
Sample Info: 23C0752-02
Volume Injected (uL): 1.0
Column phase: ZB-5msi

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



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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

Volume Injected (uL): 1.0

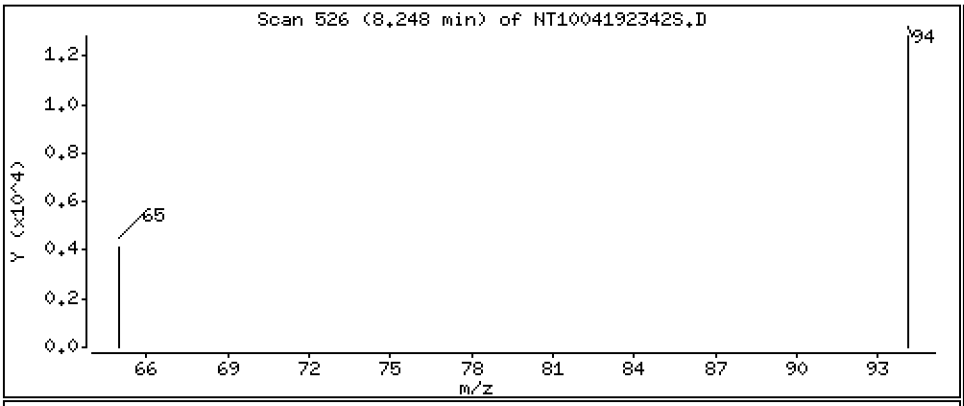
Operator: DSD

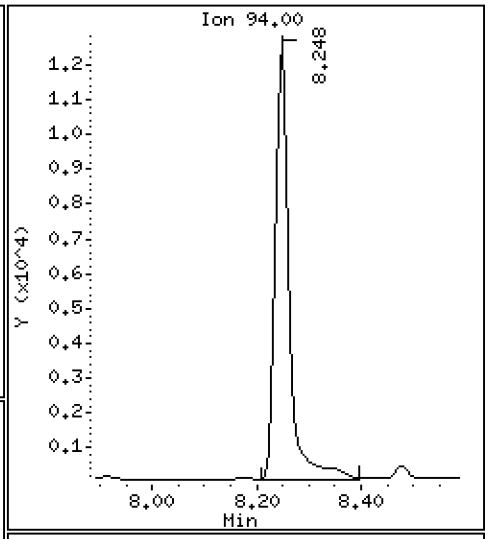
Column phase: ZB-5msi

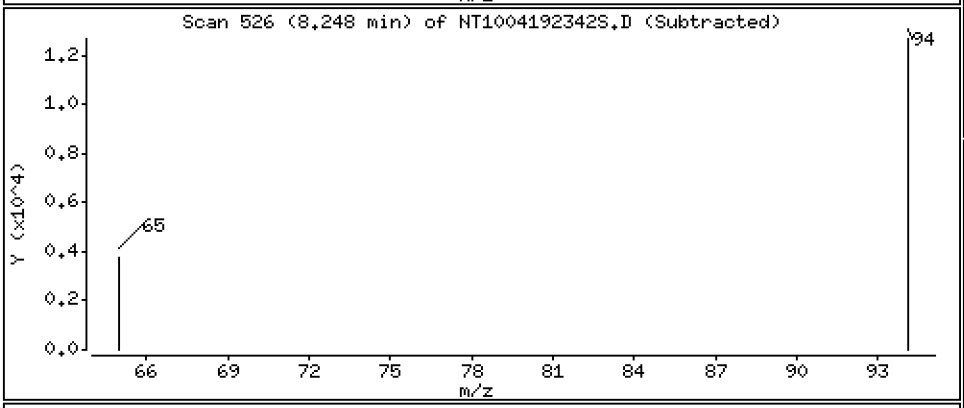
Column diameter: 0.25

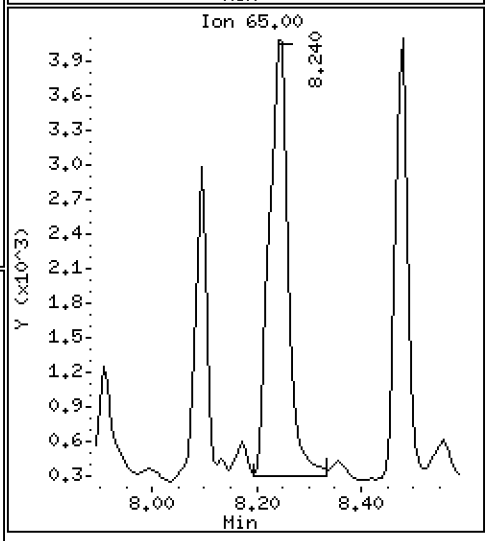
3 Phenol

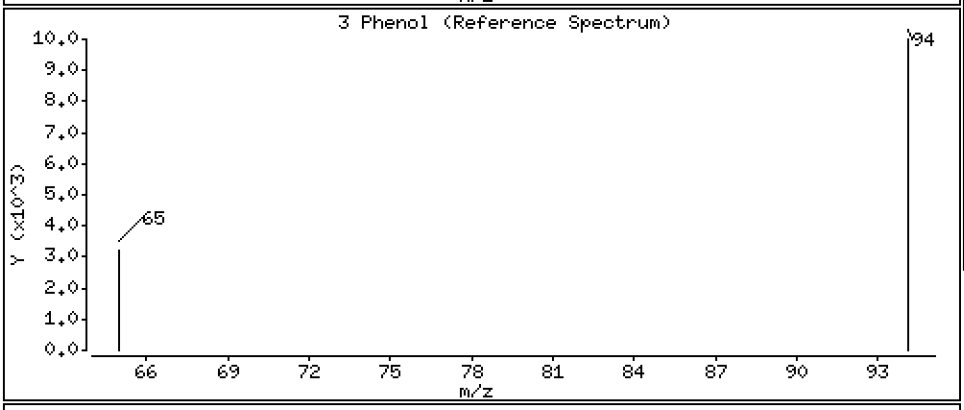
Concentration: 0.3095 ug/L

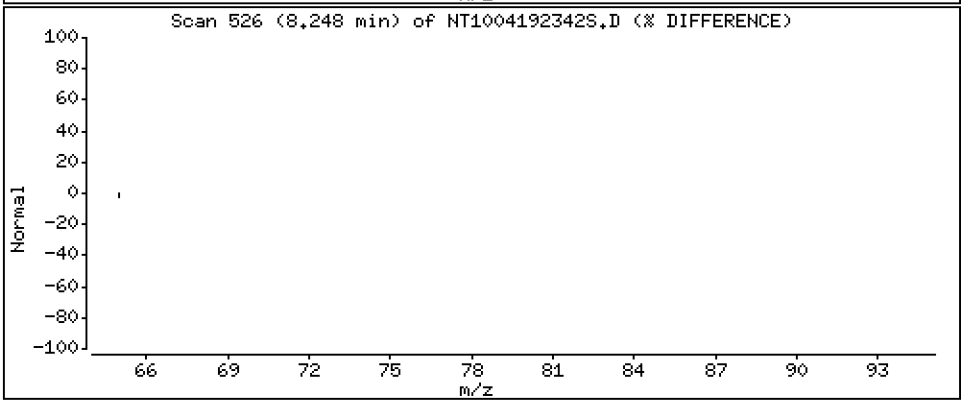












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192342S.D

Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

Volume Injected (uL): 1.0

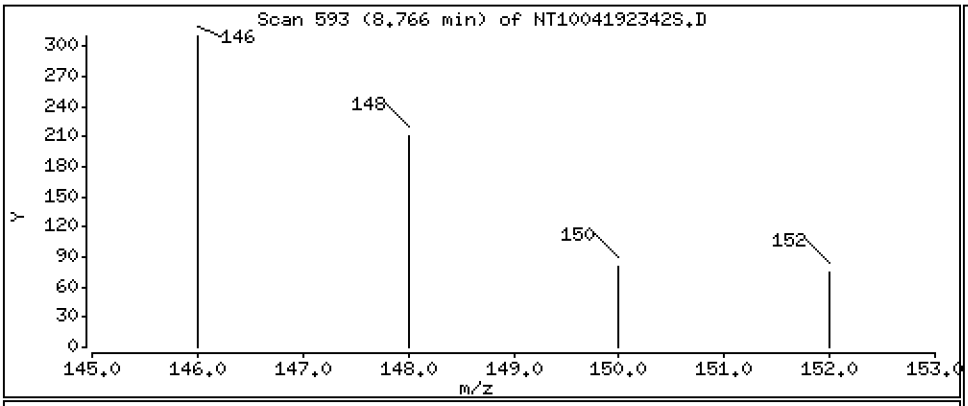
Operator: DSD

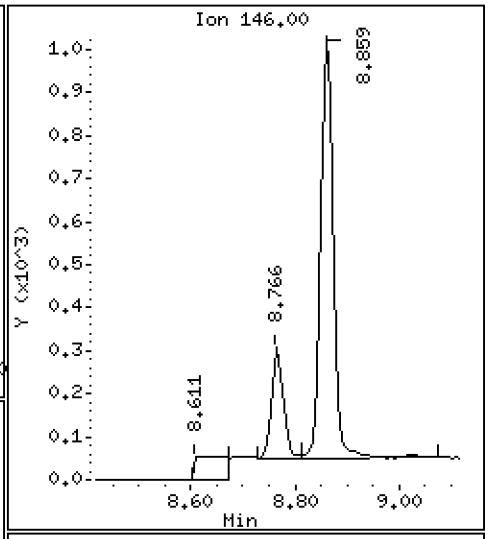
Column phase: ZB-5msi

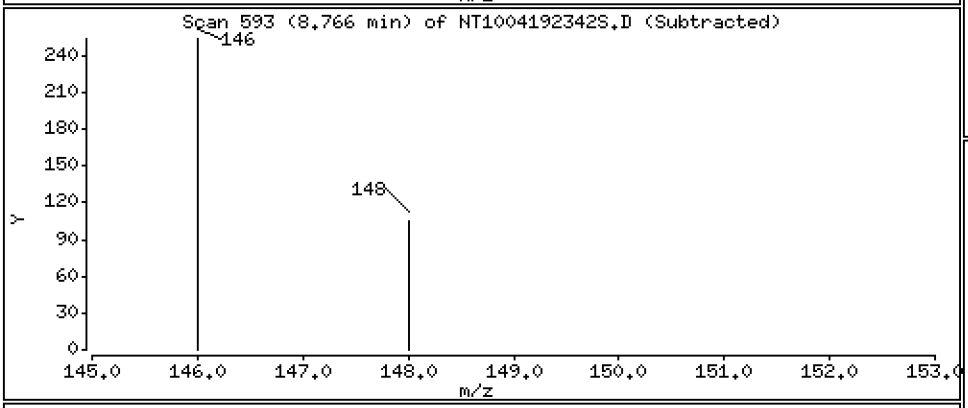
Column diameter: 0.25

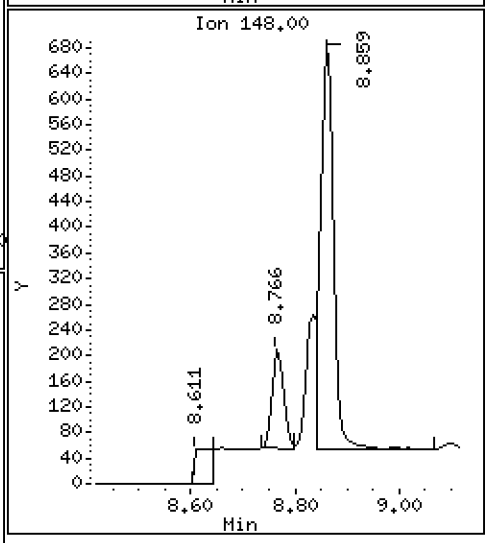
7 1,3-Dichlorobenzene

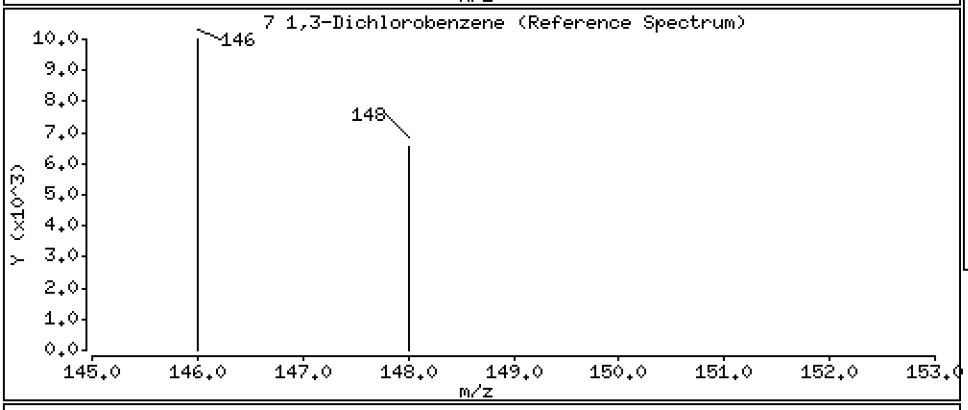
Concentration: 0.005605 ug/L

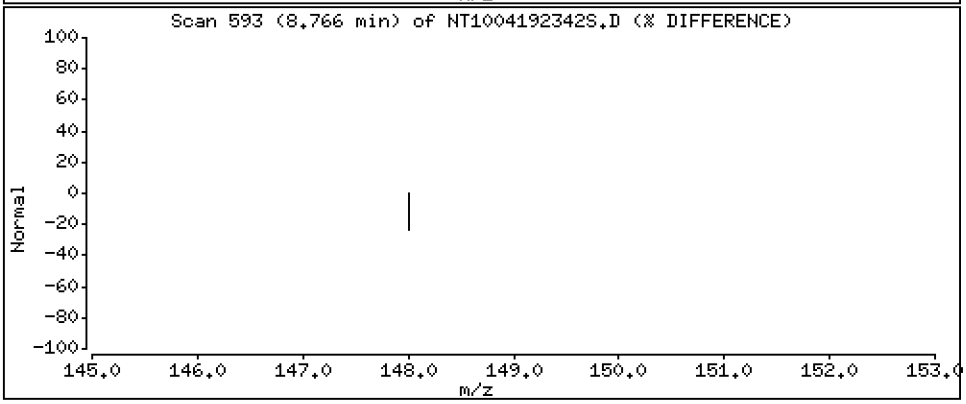












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT10041923425.D

Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

Volume Injected (uL): 1.0

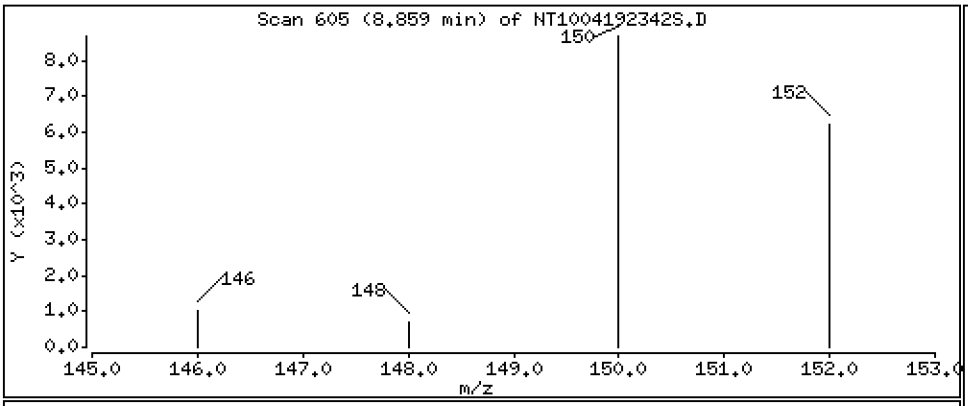
Operator: DSD

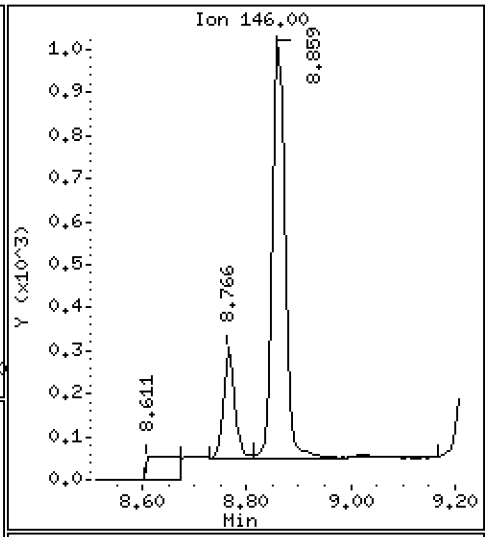
Column phase: ZB-5msi

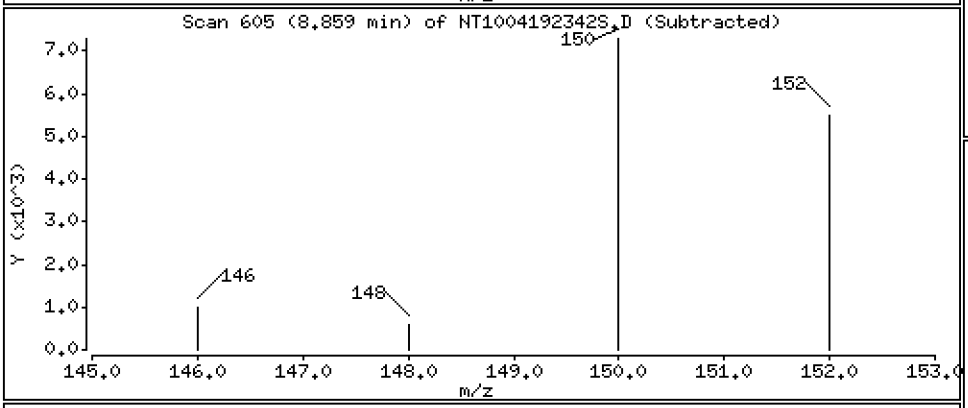
Column diameter: 0.25

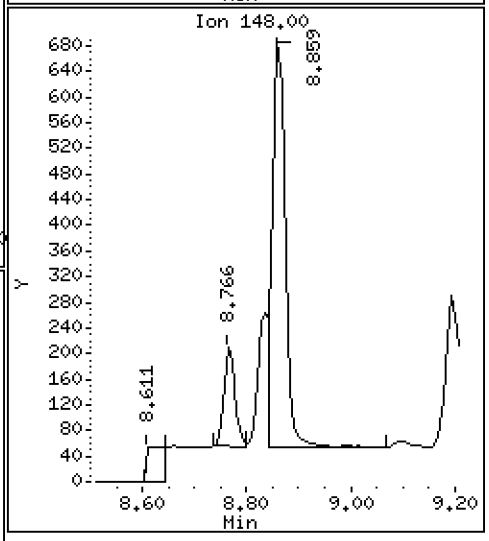
9 1,4-Dichlorobenzene

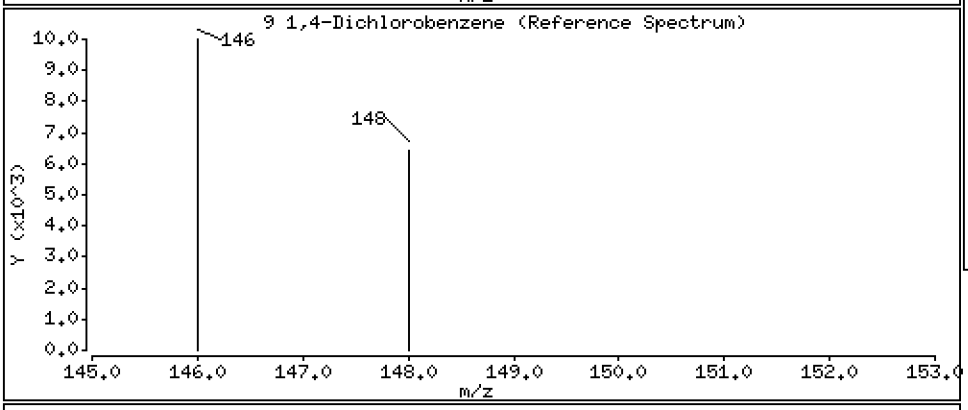
Concentration: 0.02339 ug/L

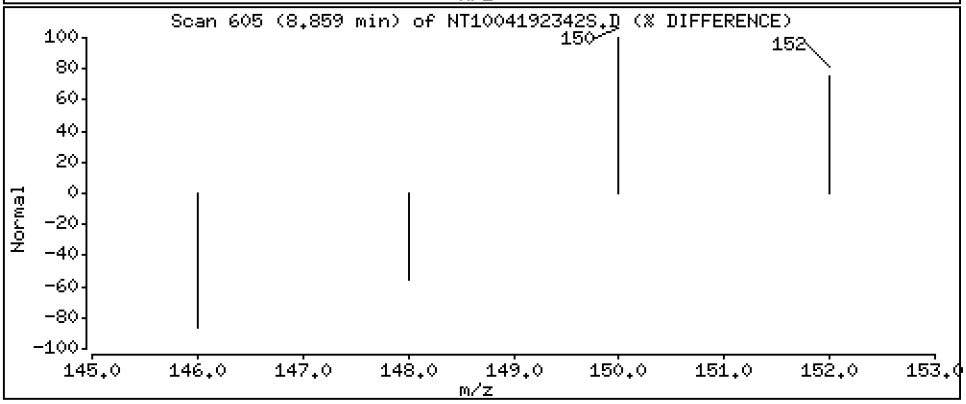












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192342S.D

Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

Volume Injected (uL): 1.0

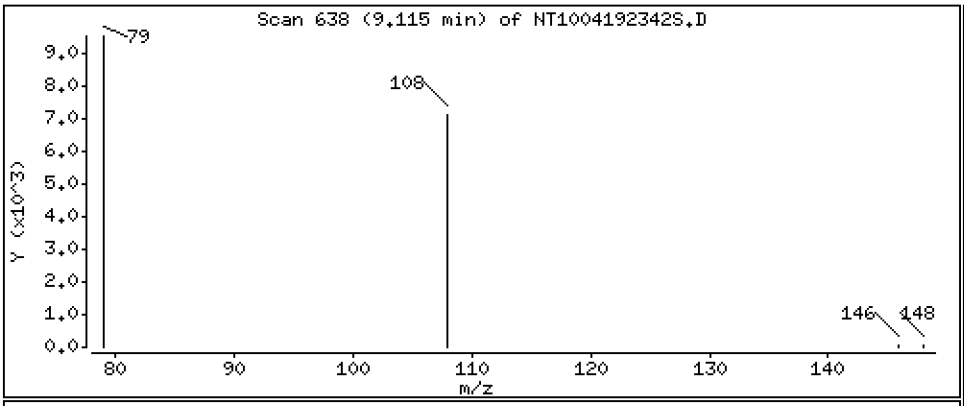
Operator: DSD

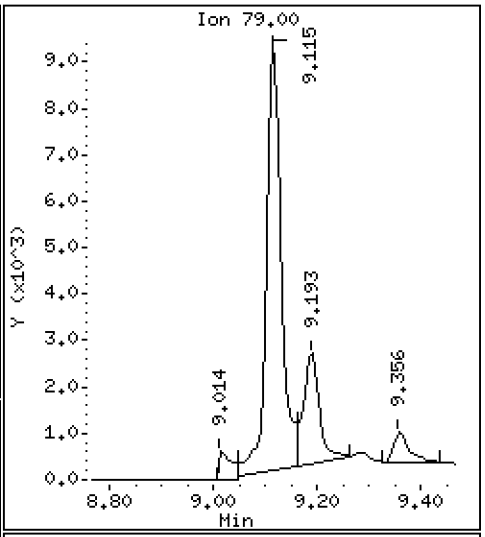
Column phase: ZB-5msi

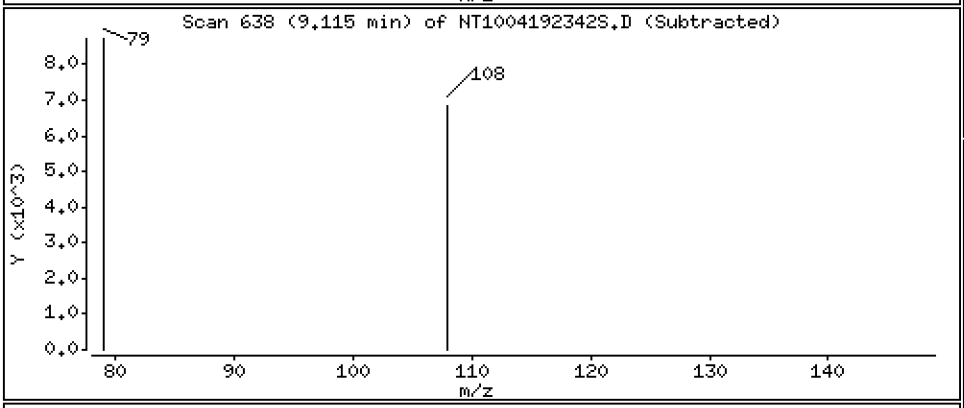
Column diameter: 0.25

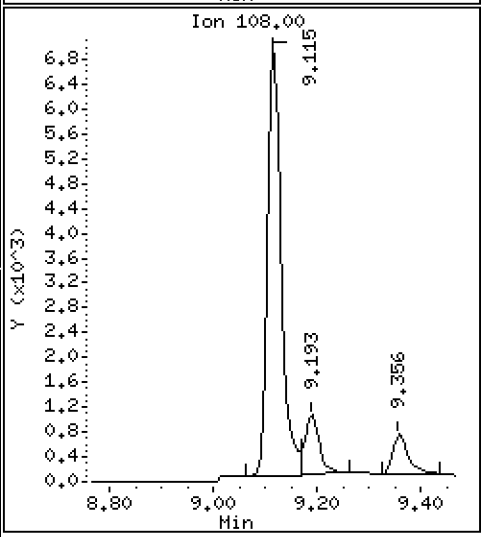
11 Benzyl alcohol

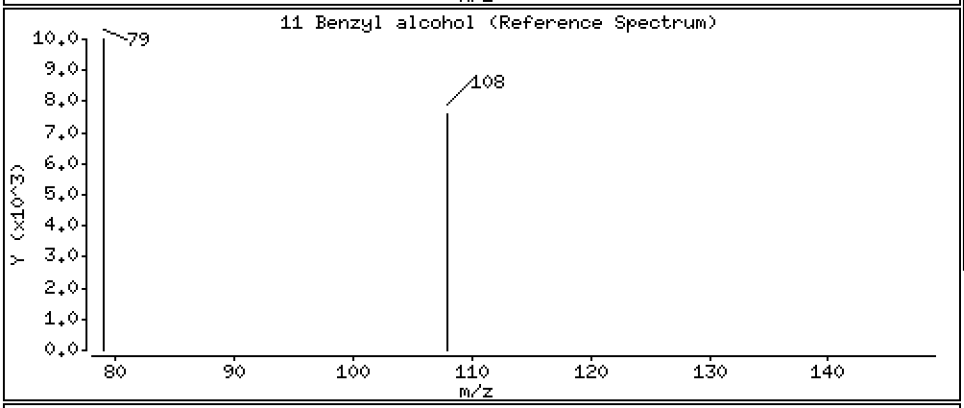
Concentration: 0.4159 ug/L

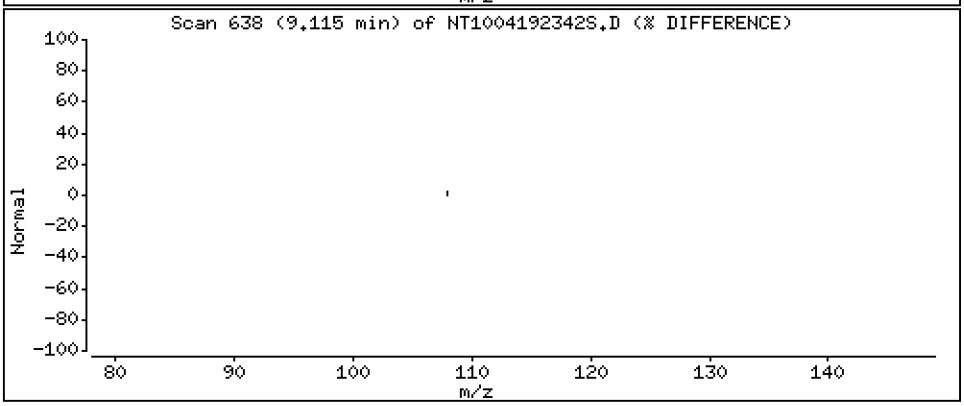












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192342S.D

Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

Volume Injected (uL): 1.0

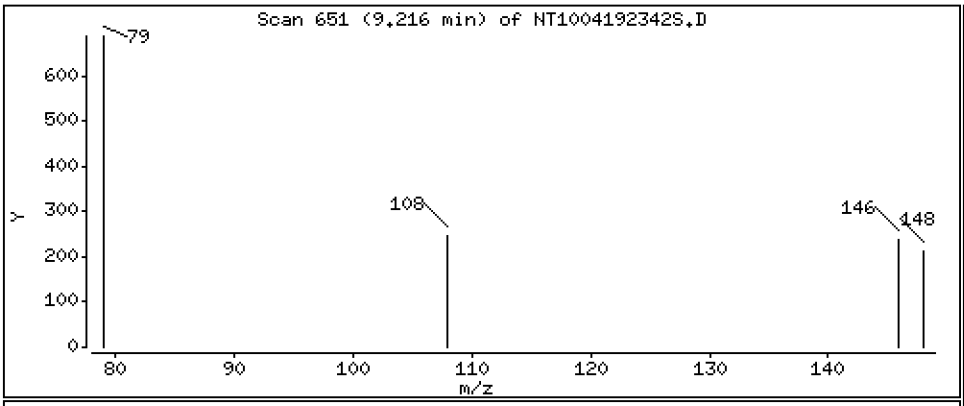
Operator: DSD

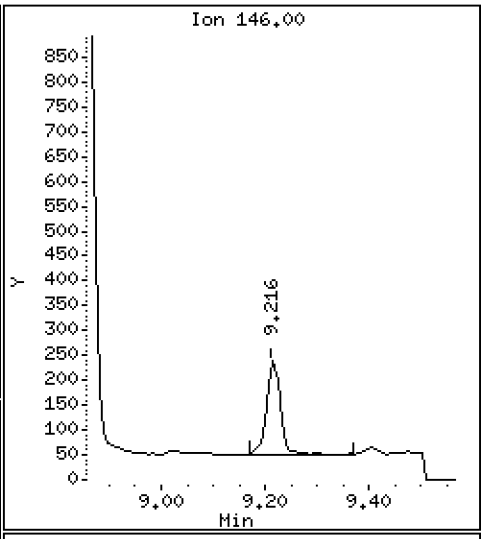
Column phase: ZB-5msi

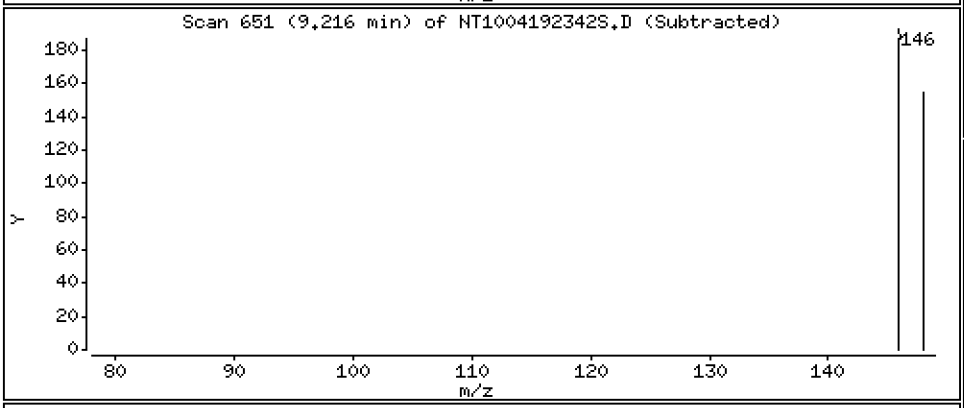
Column diameter: 0.25

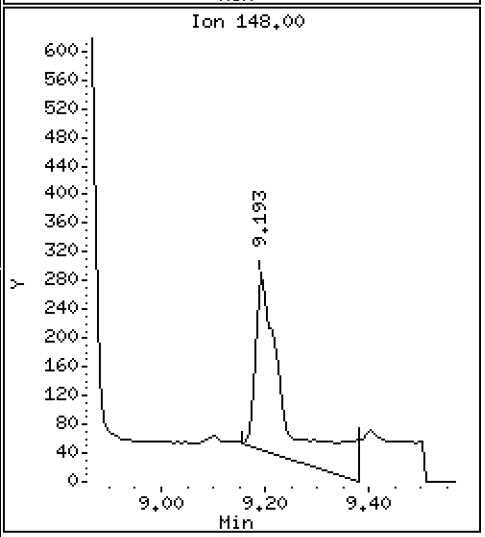
12 1,2-Dichlorobenzene

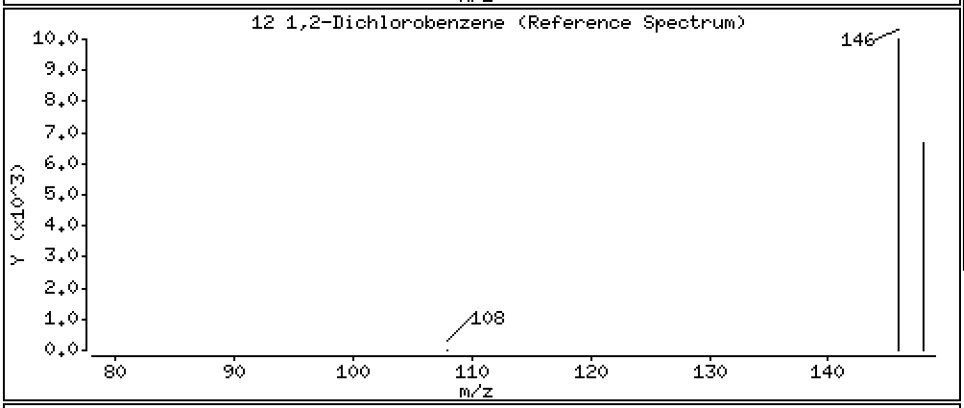
Concentration: 0.004843 ug/L

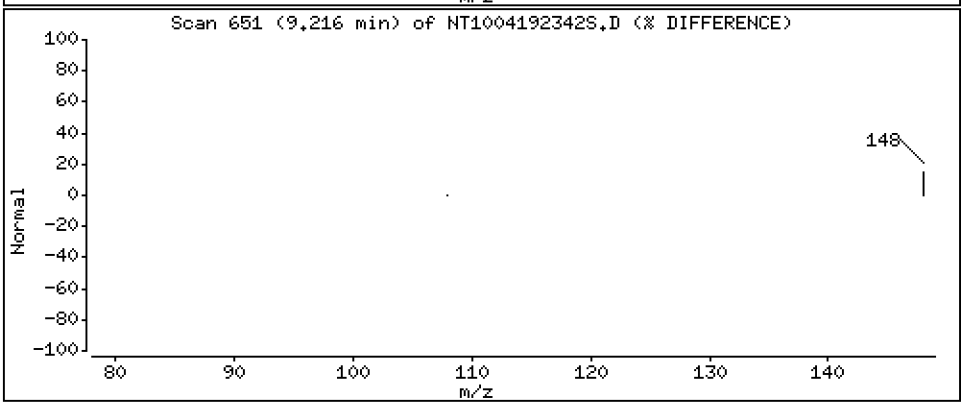












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT10041923425.D

Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

Volume Injected (uL): 1.0

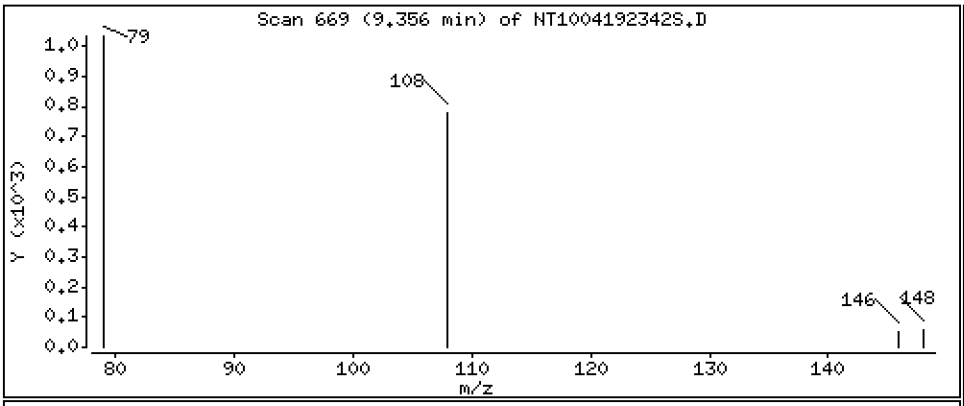
Operator: DSD

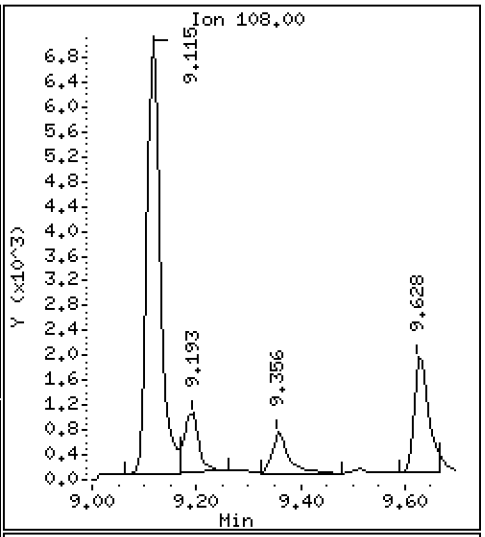
Column phase: ZB-5msi

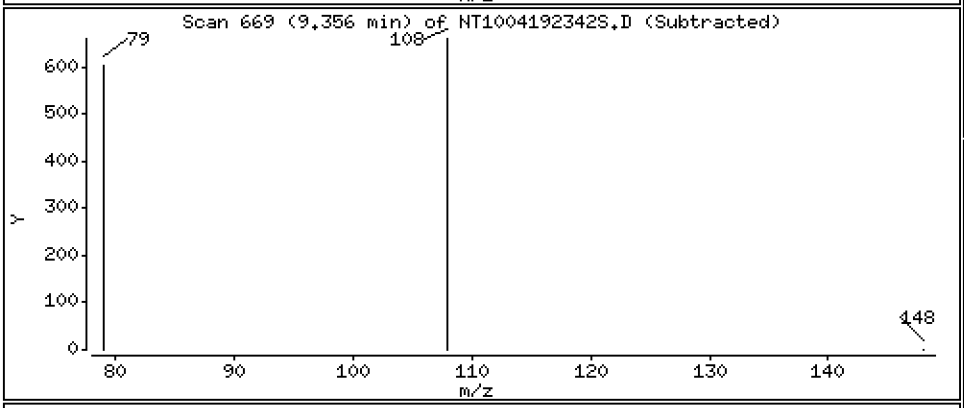
Column diameter: 0.25

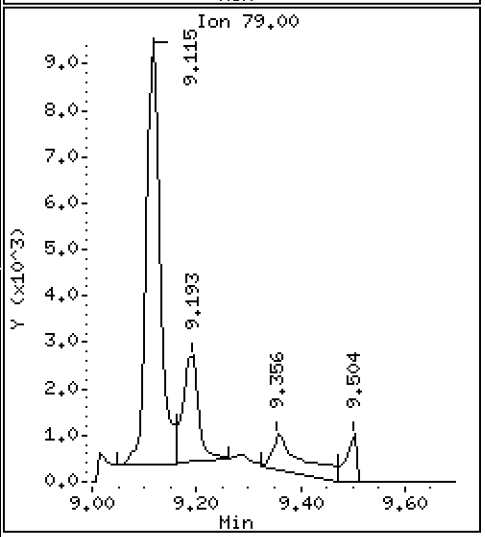
13 2-Methylphenol

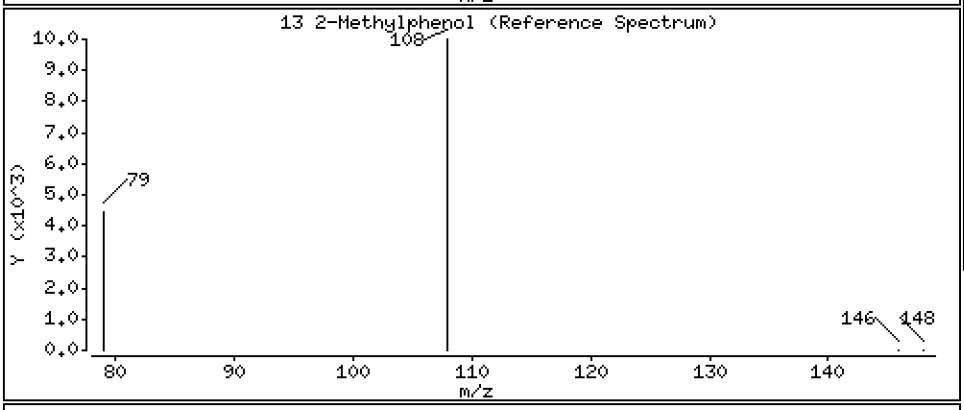
Concentration: 0.02692 ug/L

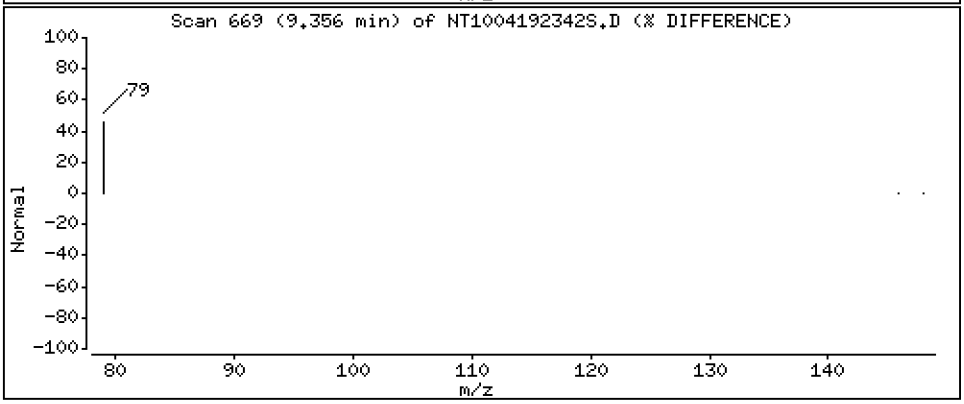












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192342S.D

Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

Volume Injected (uL): 1.0

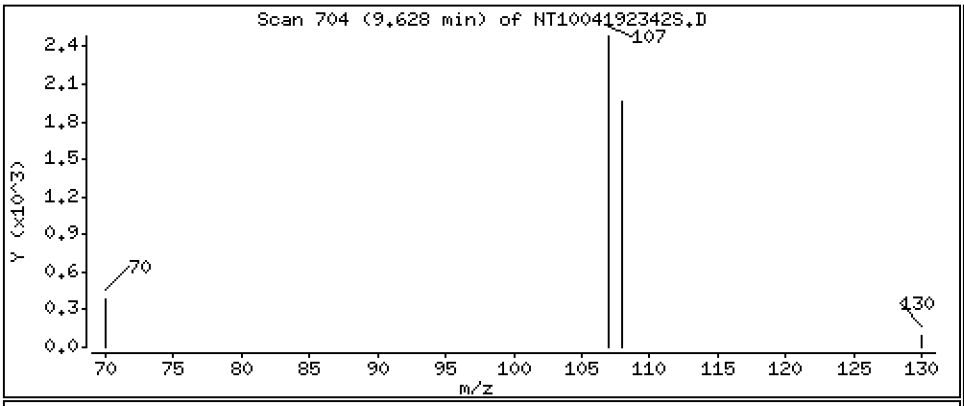
Operator: DSD

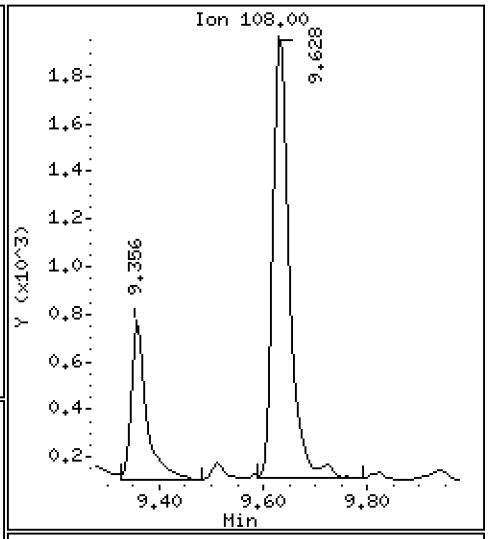
Column phase: ZB-5msi

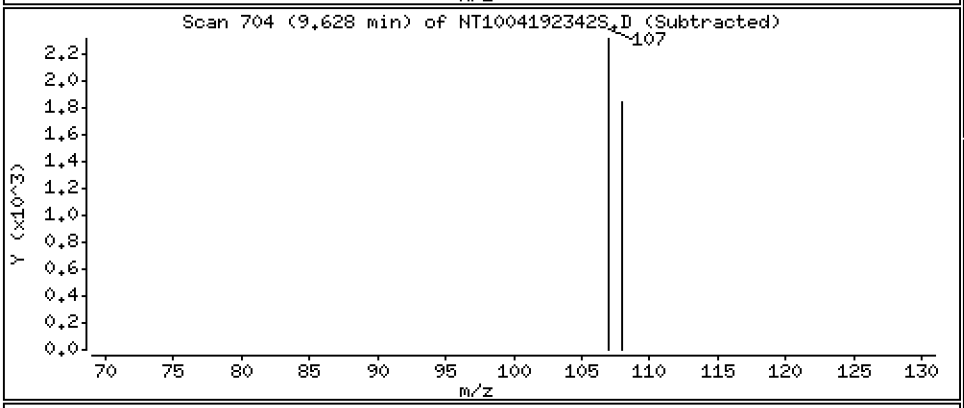
Column diameter: 0.25

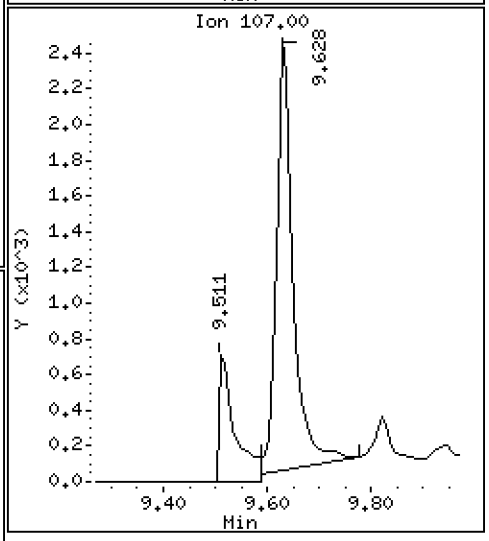
15 4-Methylphenol

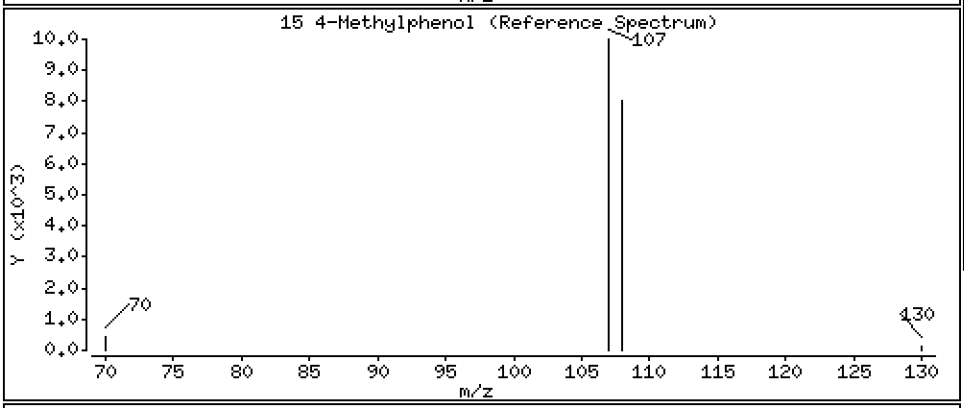
Concentration: 0.07659 ug/L

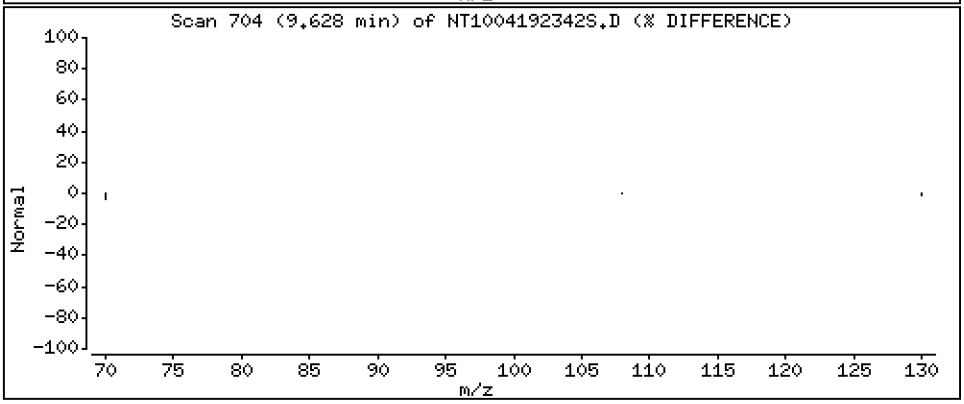












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT10041923425.D

Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

Volume Injected (uL): 1.0

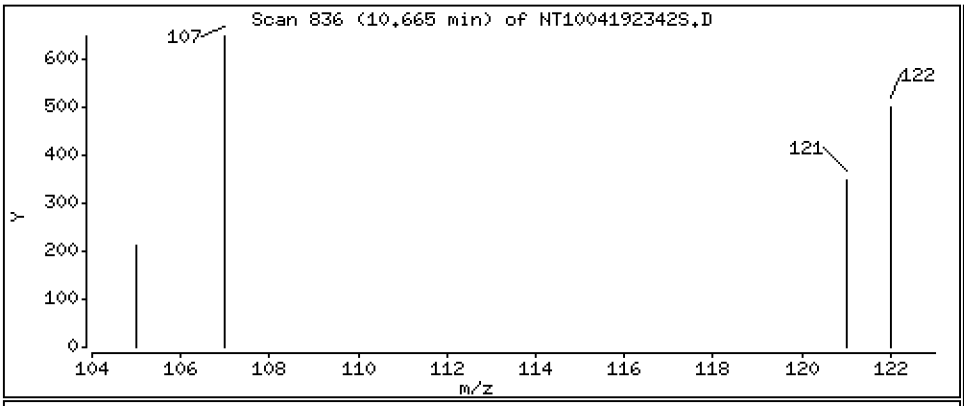
Operator: DSD

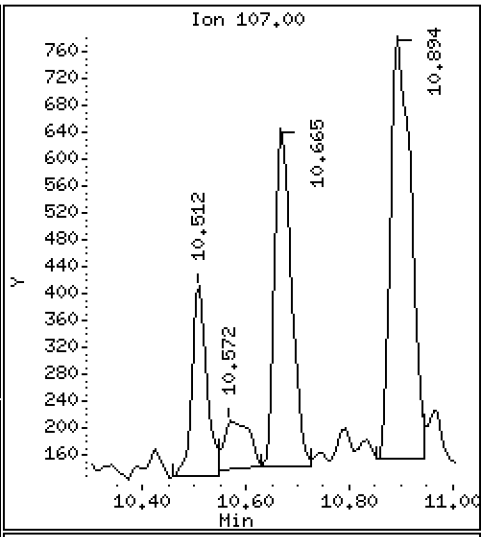
Column phase: ZB-5msi

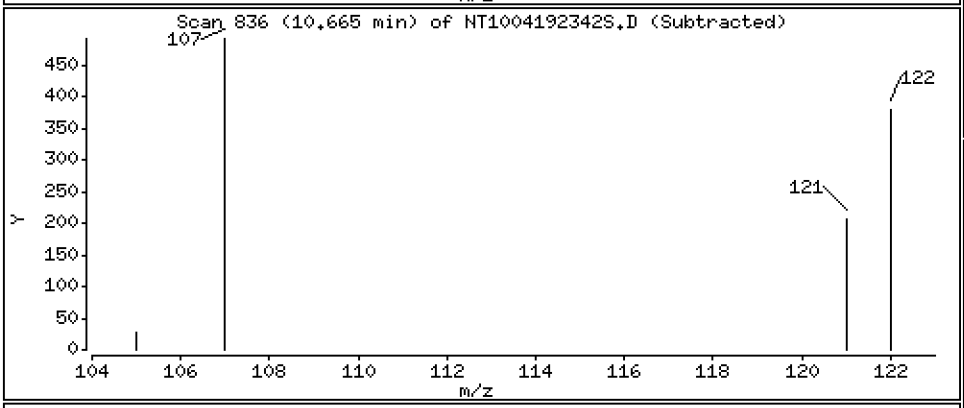
Column diameter: 0.25

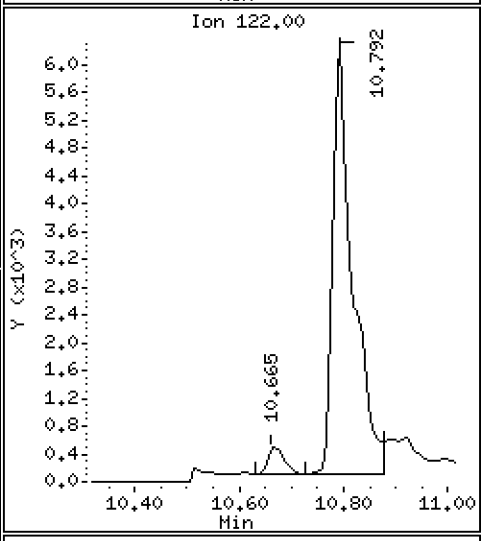
22 2,4-Dimethylphenol

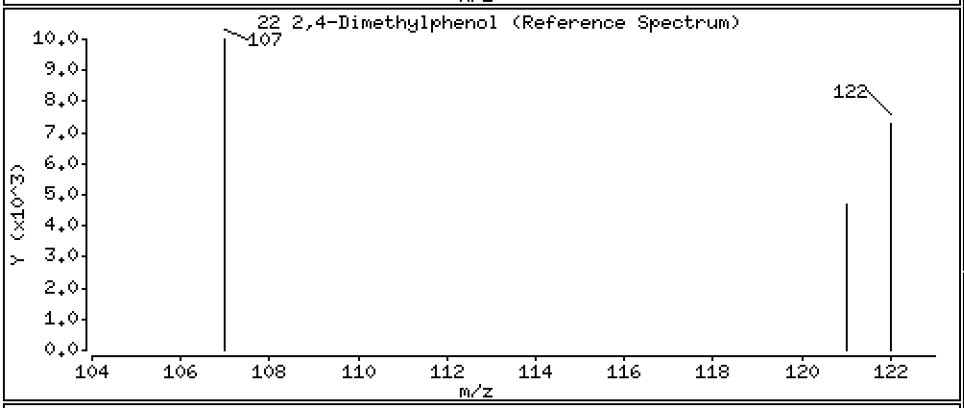
Concentration: 0.02112 ug/L

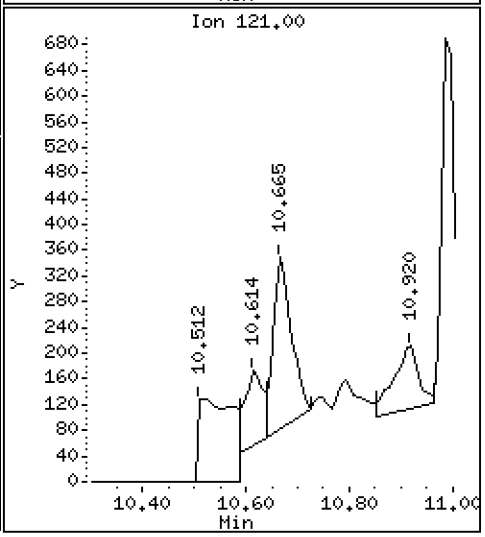


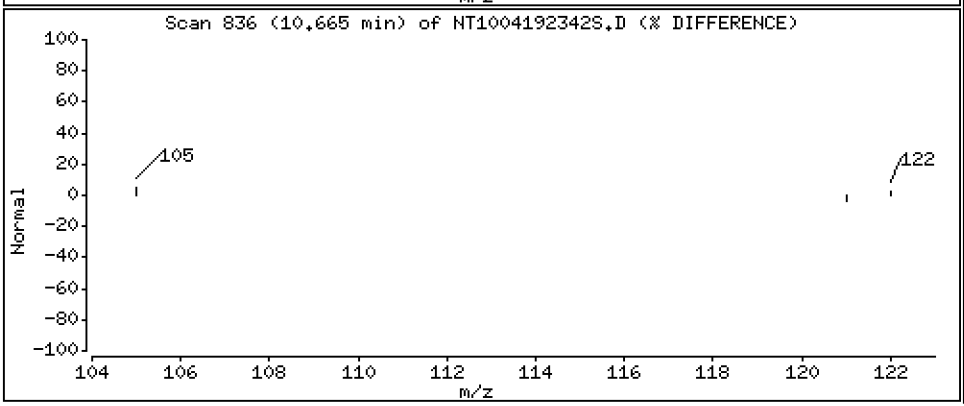












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

Volume Injected (uL): 1.0

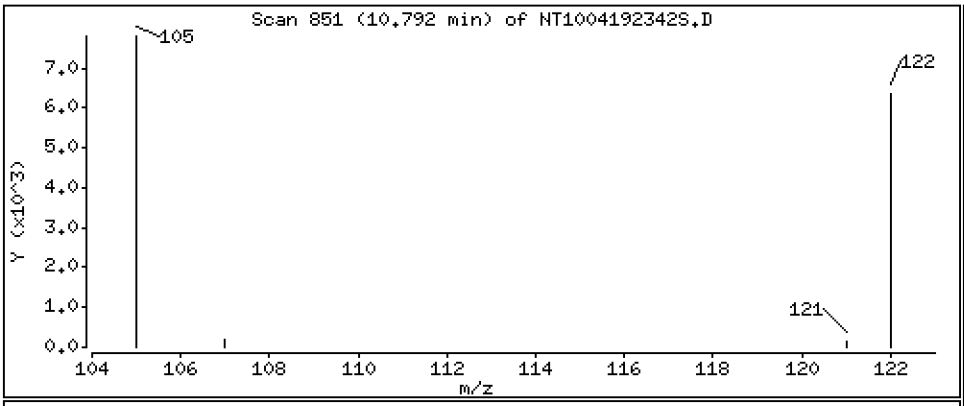
Operator: DSD

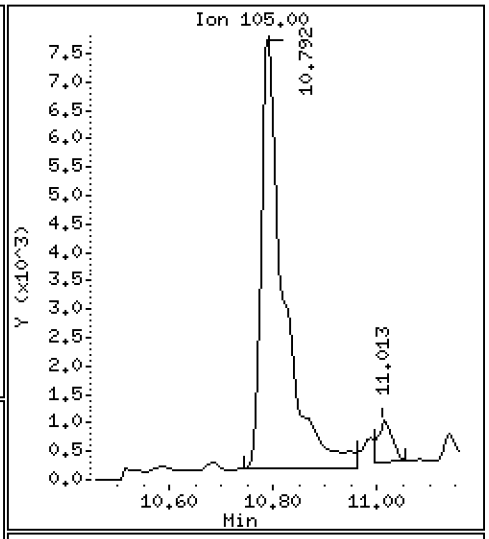
Column phase: ZB-5msi

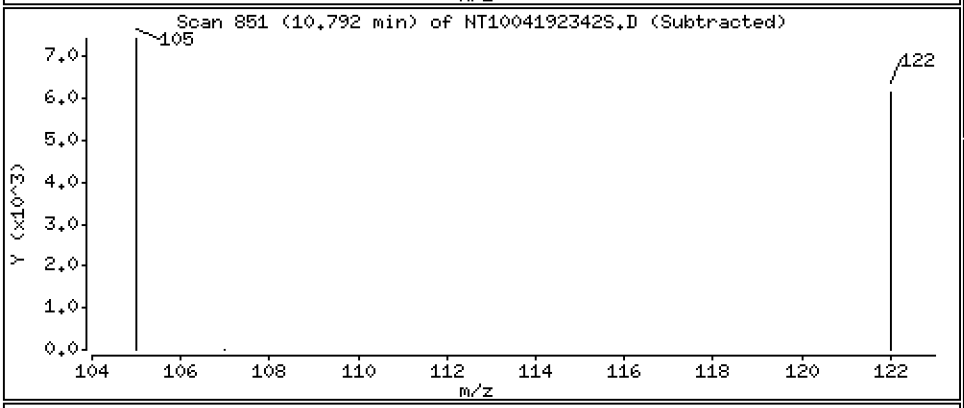
Column diameter: 0.25

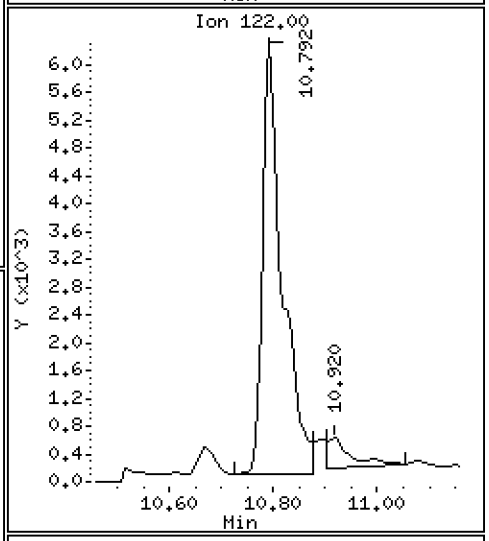
24 Benzoic acid

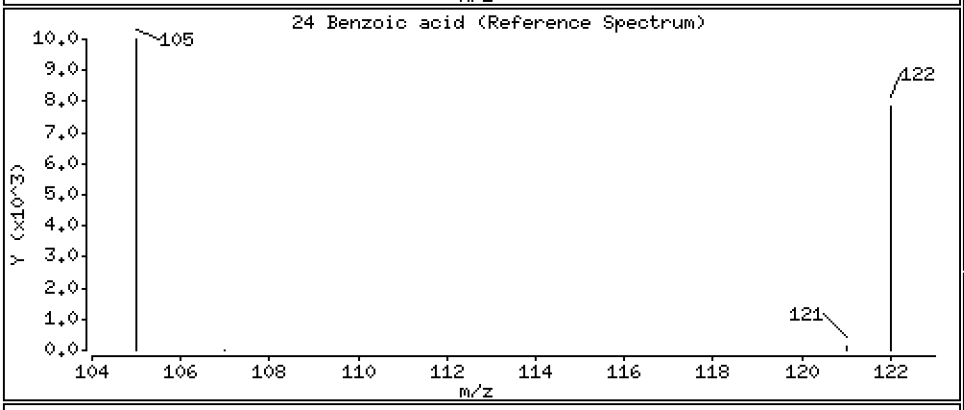
Concentration: 0.7630 ug/L

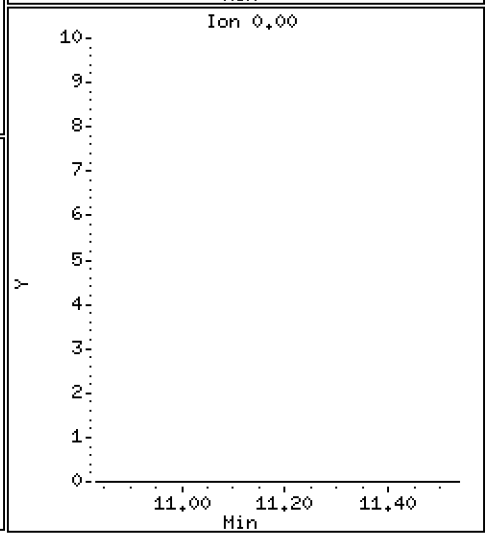


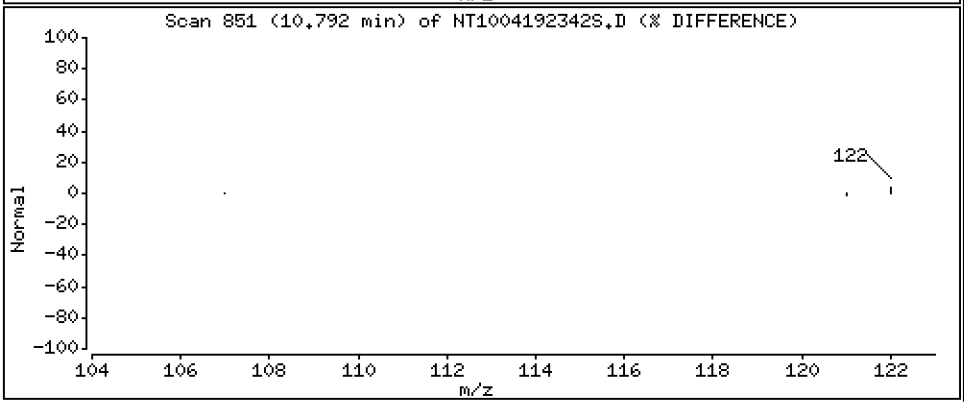












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

Volume Injected (uL): 1.0

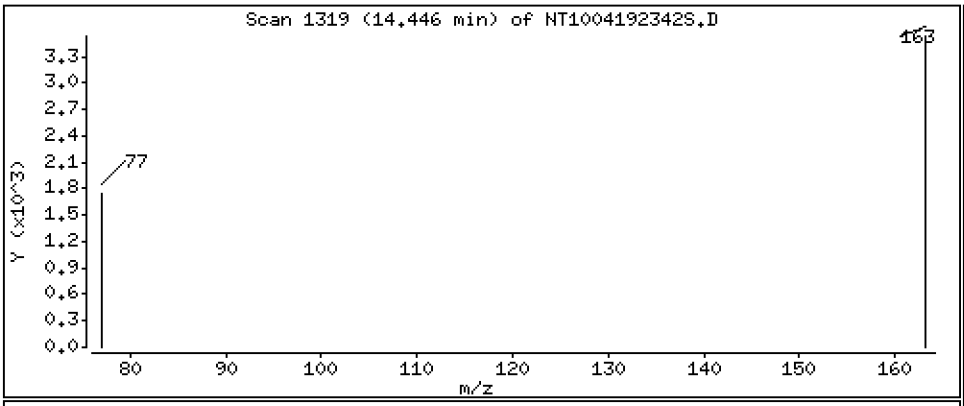
Operator: DSD

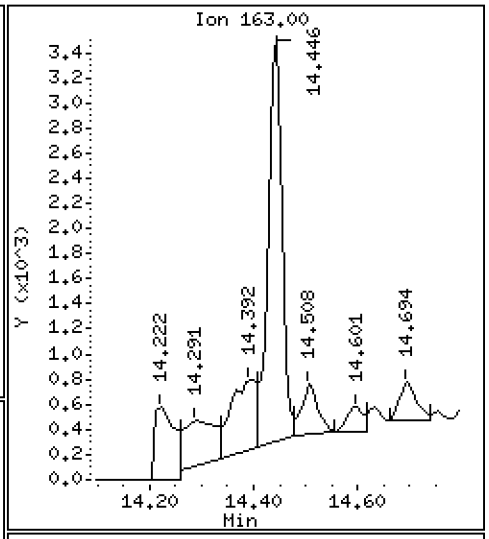
Column phase: ZB-5msi

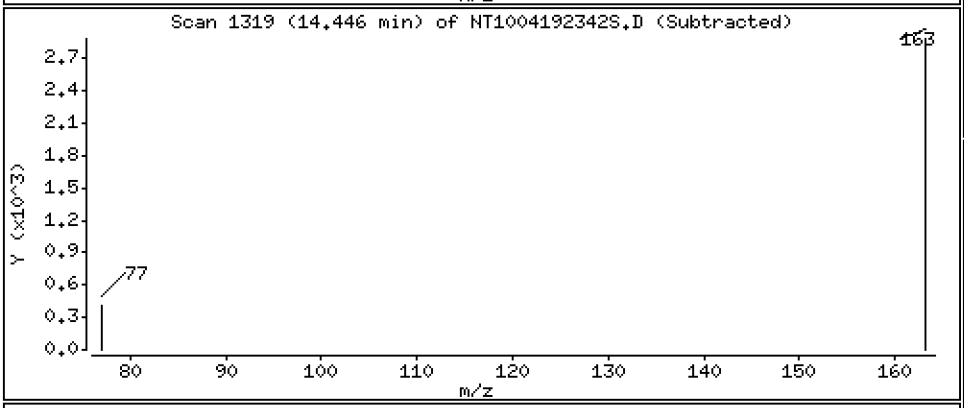
Column diameter: 0.25

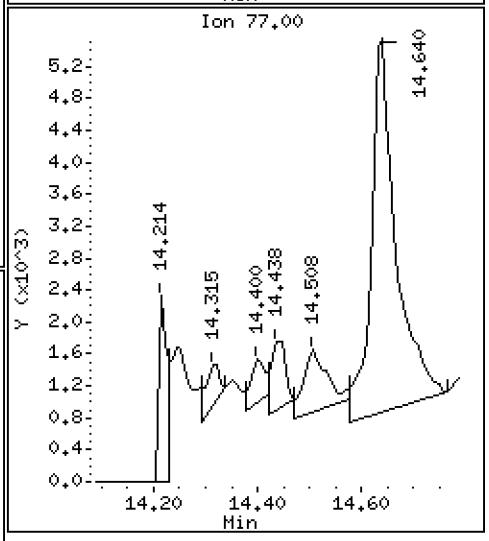
39 Dimethylphthalate

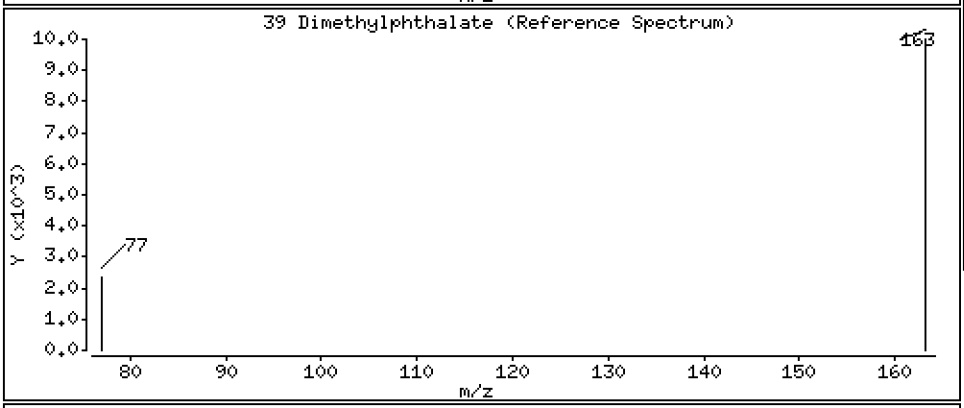
Concentration: 0.05553 ug/L

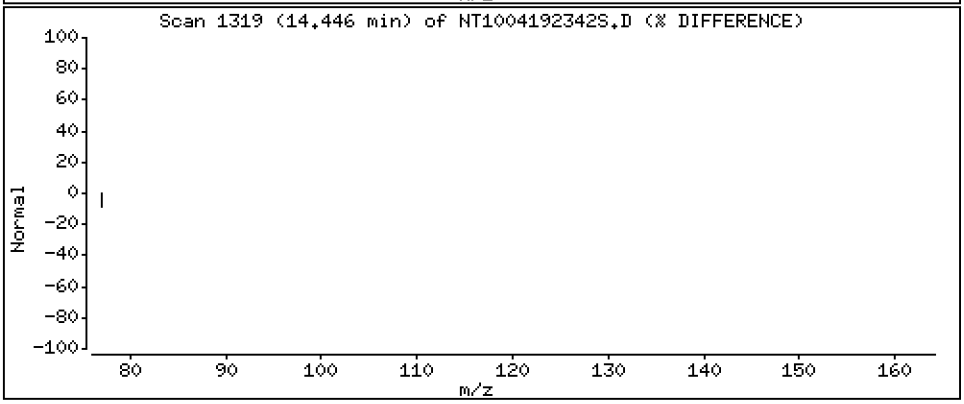












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

Volume Injected (uL): 1.0

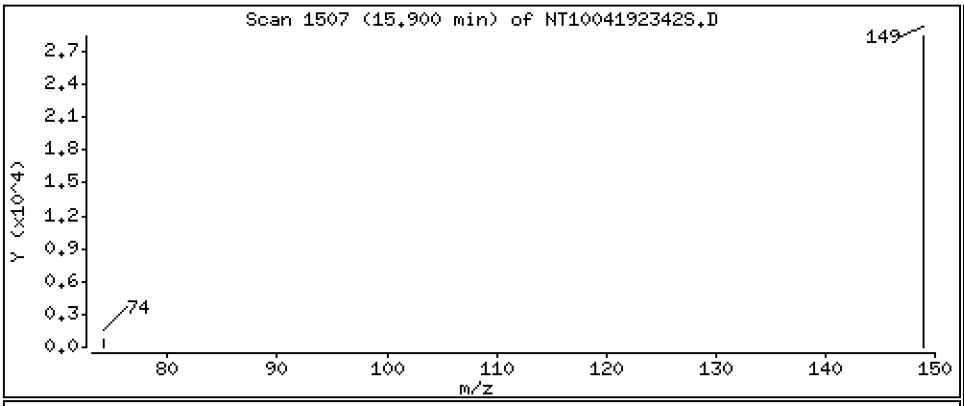
Operator: DSD

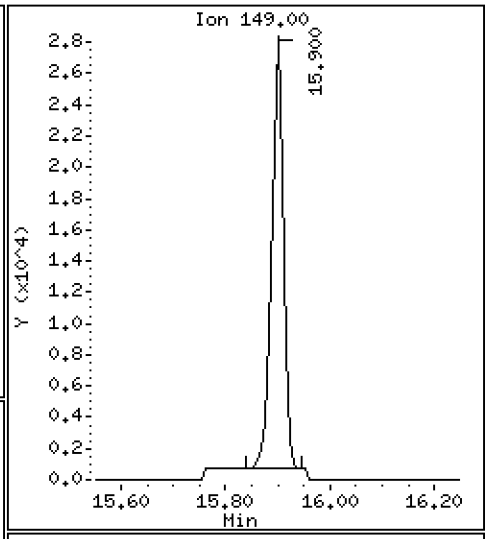
Column phase: ZB-5msi

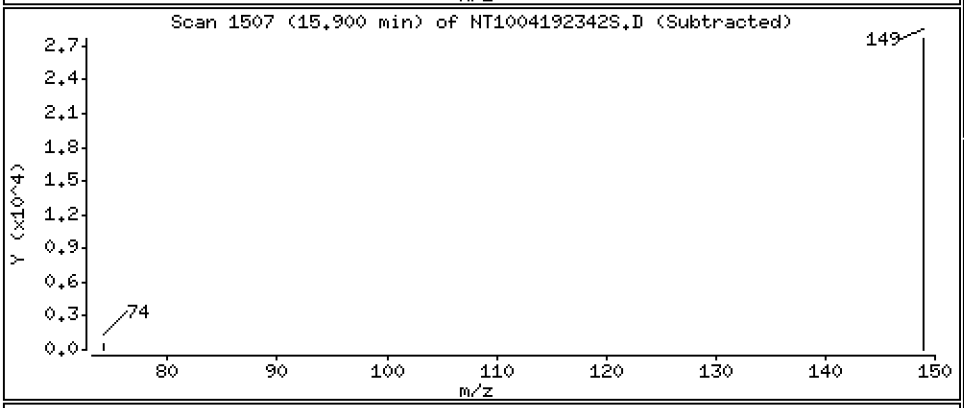
Column diameter: 0.25

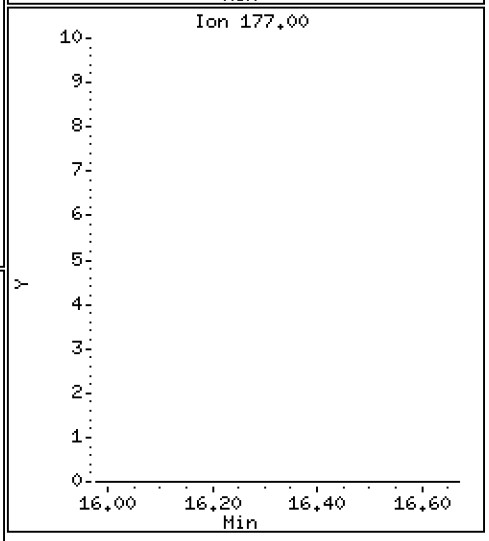
50 Diethylphthalate

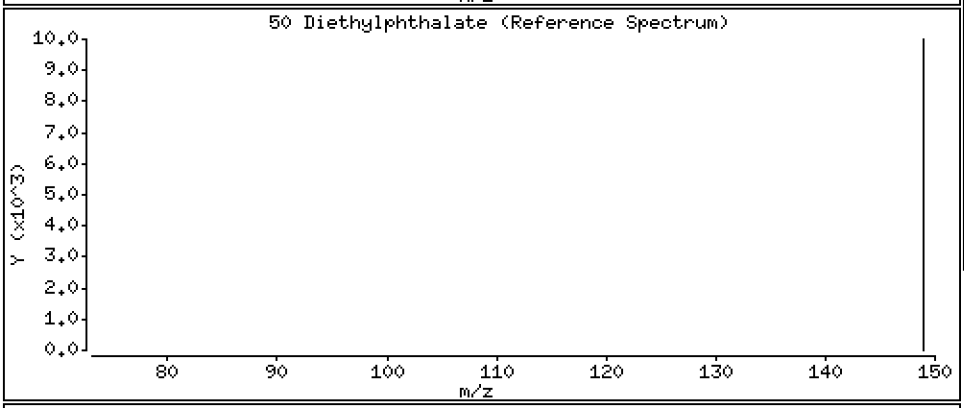
Concentration: 0.3855 ug/L

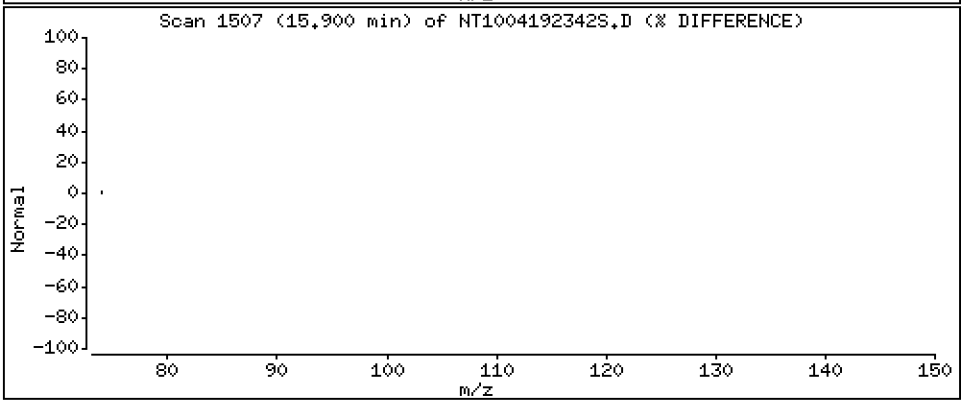












Date : 20-APR-2023 13:24

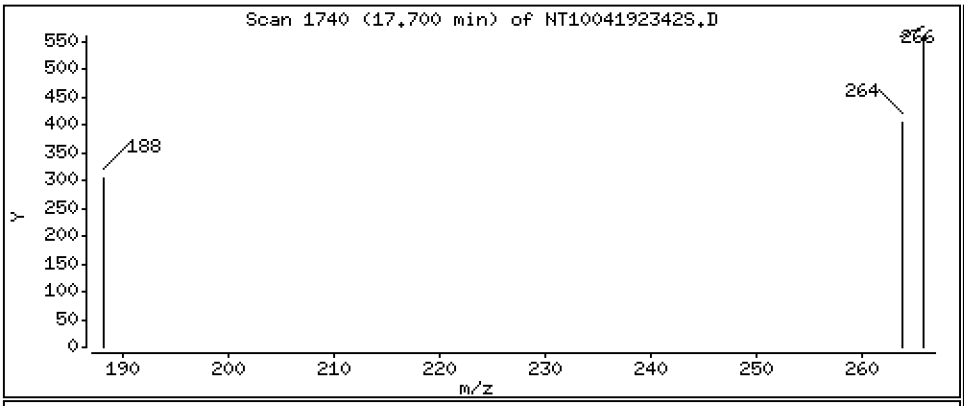
Client ID: Instrument: nt10.i

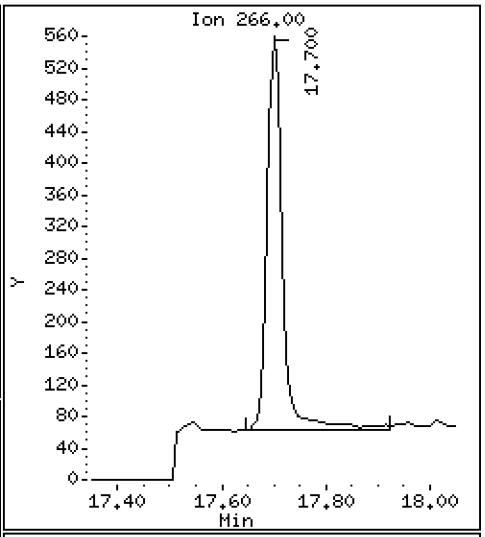
Sample Info: 23C0752-02

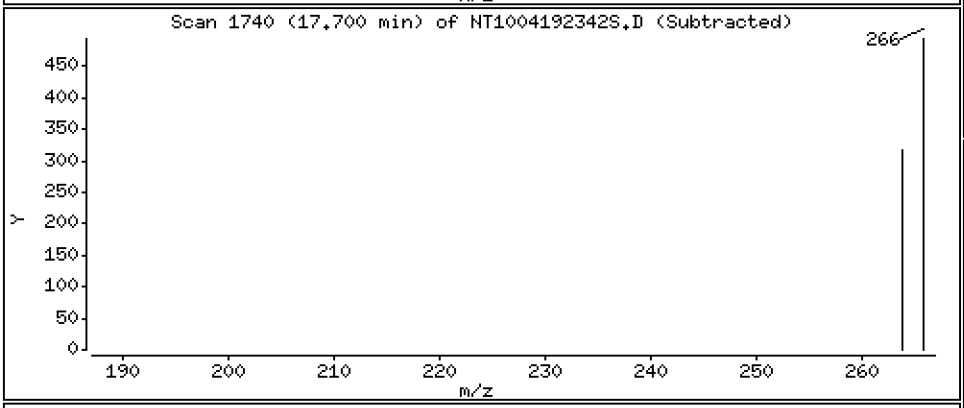
Volume Injected (uL): 1.0 Operator: DSD

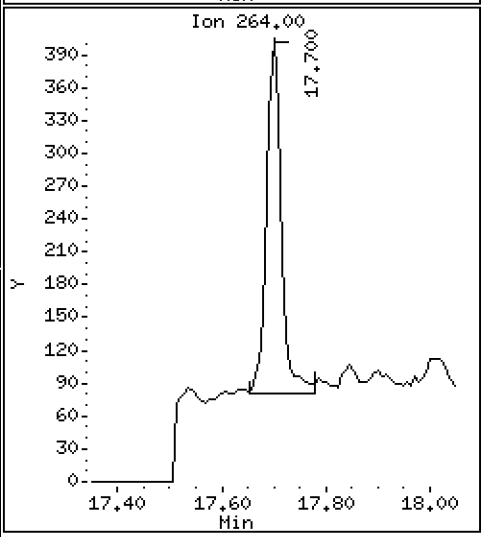
Column phase: ZB-5msi Column diameter: 0.25

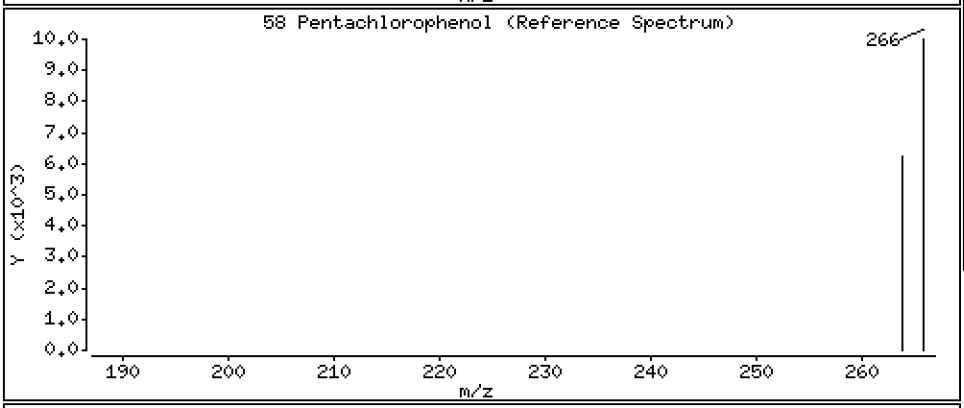
58 Pentachlorophenol Concentration: 0.04534 ug/L

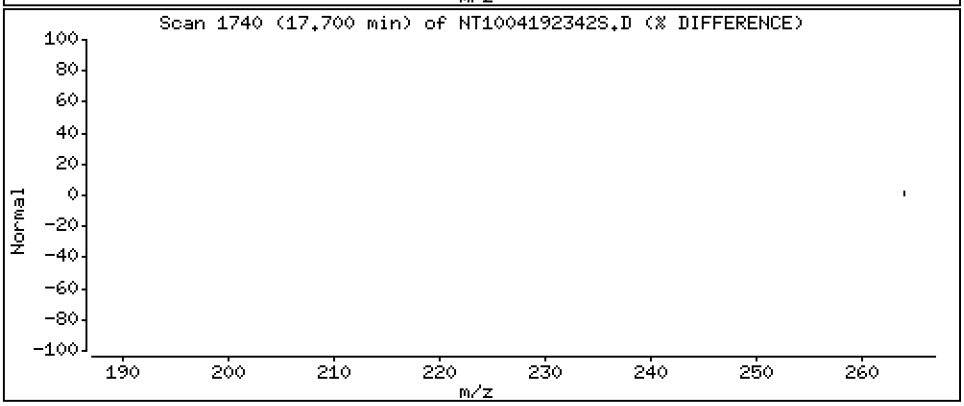












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Date : 20-APR-2023 13:24

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-02

Volume Injected (uL): 1.0

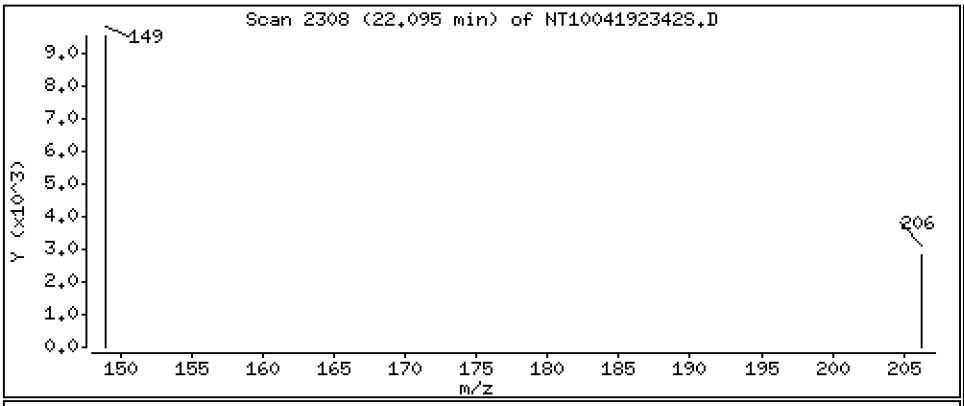
Operator: DSD

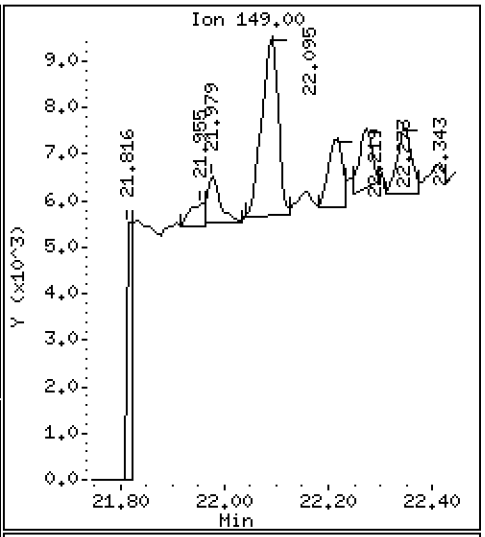
Column phase: ZB-5msi

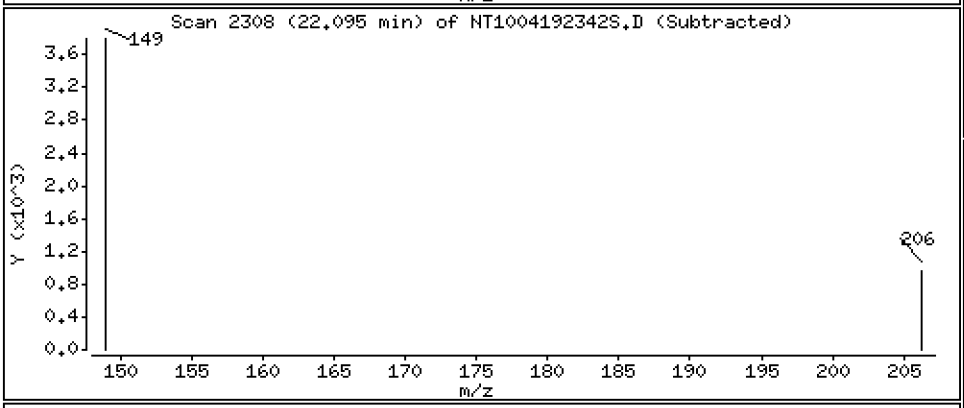
Column diameter: 0.25

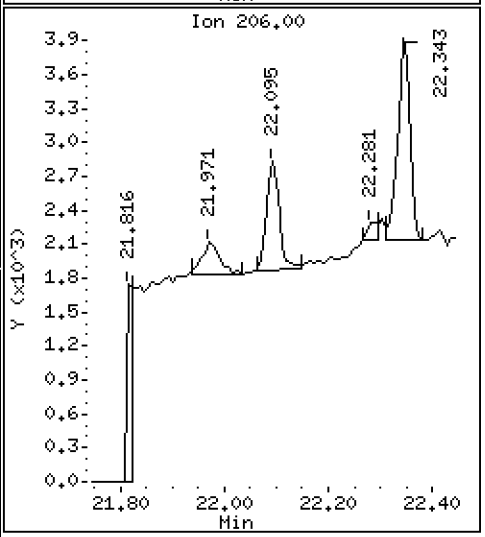
67 Butylbenzylphthalate

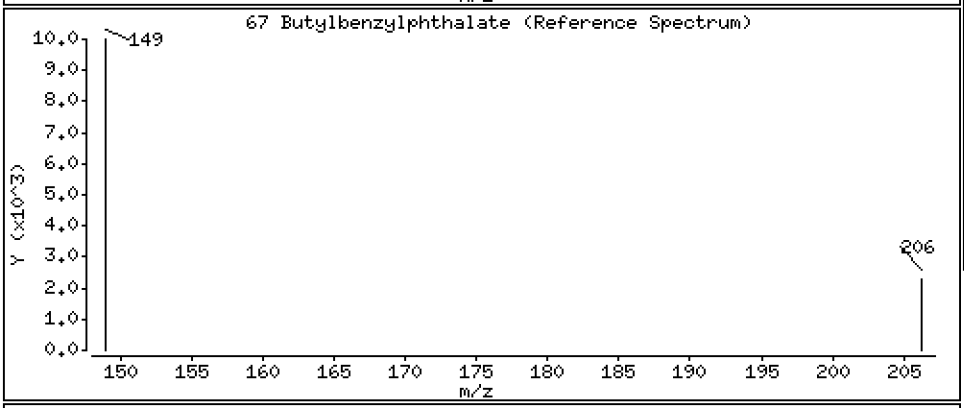
Concentration: 0.09267 ug/L

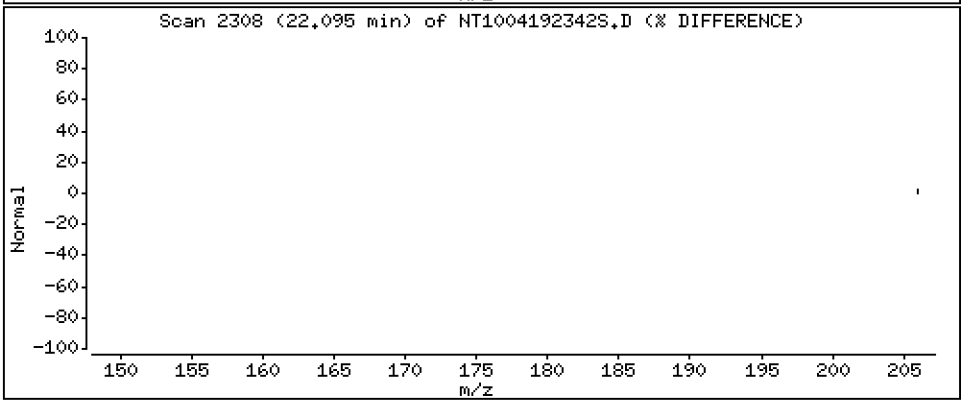












Date : 20-APR-2023 13:24

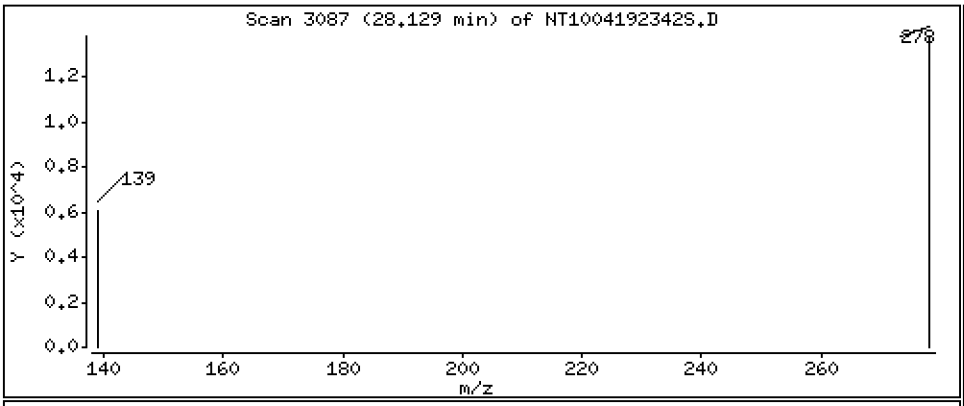
Client ID: Instrument: nt10.i

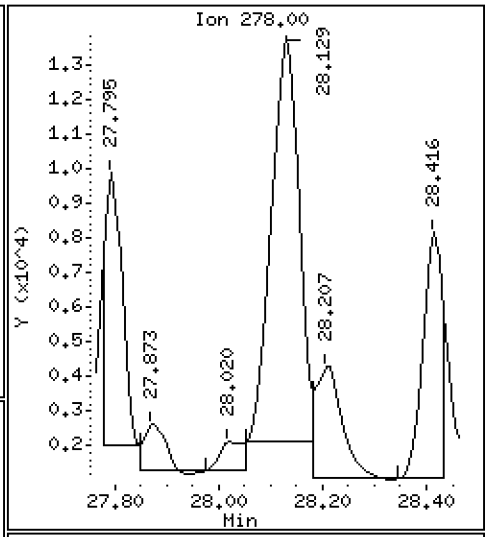
Sample Info: 23C0752-02

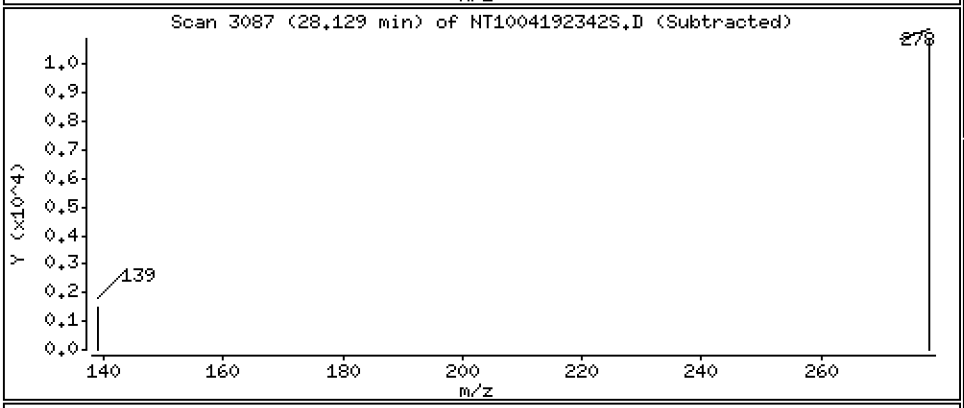
Volume Injected (uL): 1.0 Operator: DSD

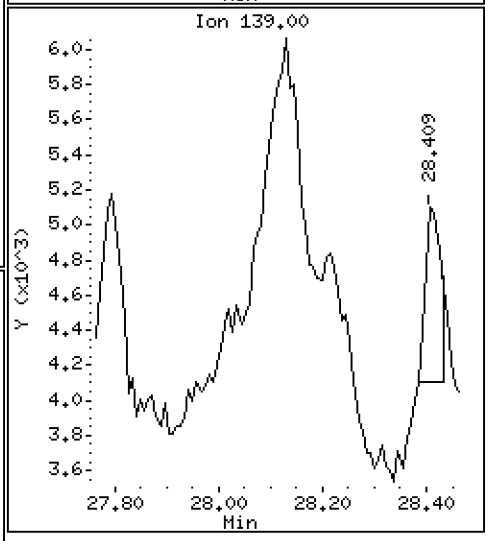
Column phase: ZB-5msi Column diameter: 0.25

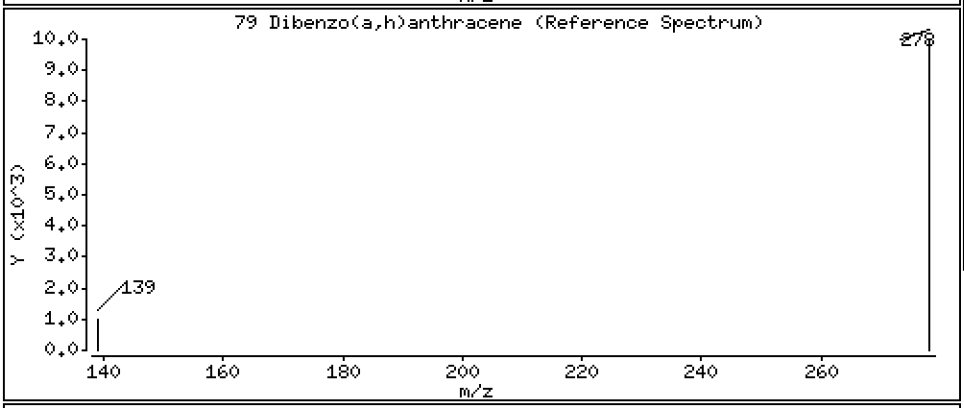
79 Dibenzo(a,h)anthracene Concentration: 0.1721 ug/L

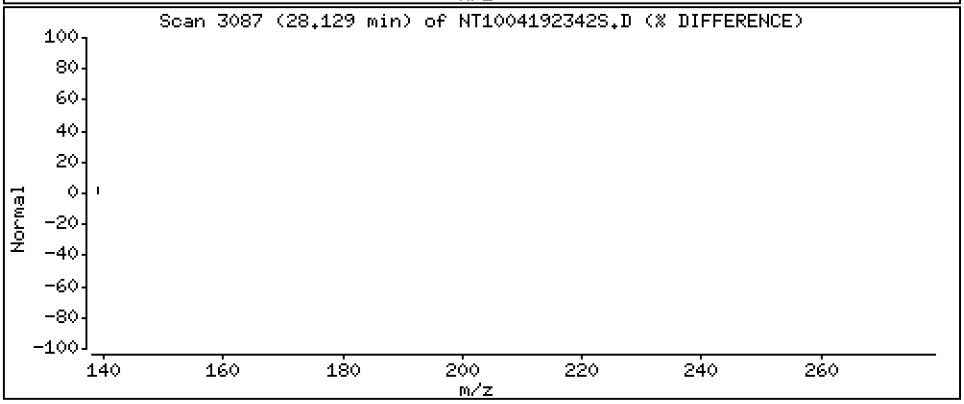












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192342S.D
Lab Smp Id: 23C0752-02
Inj Date : 20-APR-2023 13:24 MS Autotune Date: 16-JAN-2023 17:42
Operator : DSD Inst ID: nt10.i
Smp Info : 23C0752-02
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\SIMABN2.m
Meth Date : 21-Apr-2023 13:41 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.625	6.617	(0.750)	247042	4.62891	4.629(R)
3	Phenol	94	8.248	8.240	(0.933)	22658	0.30945	0.3095
7	1,3-Dichlorobenzene	146	8.766	8.766	(0.992)	384	0.00560	0.005605
* 8	1,4-Dichlorobenzene-d4	152	8.835	8.835	(1.000)	175994	4.00000	
9	1,4-Dichlorobenzene	146	8.859	8.859	(1.003)	1547	0.02339	0.02339
11	Benzyl alcohol	79	9.115	9.115	(1.032)	17655	0.41592	0.4159
12	1,2-Dichlorobenzene	146	9.216	9.216	(1.043)	315	0.00484	0.004843
13	2-Methylphenol	108	9.355	9.348	(1.059)	1366	0.02692	0.02692
15	4-Methylphenol	108	9.627	9.627	(1.090)	4038	0.07659	0.07659
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
22	2,4-Dimethylphenol	107	10.665	10.656	(0.943)	1160	0.02112	0.02112
24	Benzoic acid	105	10.792	10.809	(0.954)	22968	0.76300	0.7630
26	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
* 27	Naphthalene-d8	136	11.312	11.312	(1.000)	635276	4.00000	
30	Hexachlorobutadiene	225	Compound Not Detected.					
39	Dimethylphthalate	163	14.446	14.446	(0.968)	5846	0.05553	0.05553
* 42	Acenaphthene-d10	162	14.918	14.918	(1.000)	333579	4.00000	
50	Diethylphthalate	149	15.900	15.900	(1.066)	42041	0.38551	0.3855
54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
57	Hexachlorobenzene	284	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.699	17.699	(0.986)	988	0.04534	0.04534
*	59 Phenanthrene-d10	188	17.954	17.947	(1.000)	657160	4.00000	
$	66 Terphenyl-d14	244	21.142	21.142	(0.917)	375828	3.45256	3.453(R)
	67 Butylbenzylphthalate	149	22.094	22.094	(0.958)	8143	0.09267	0.09267
*	69 Chrysene-d12	240	23.055	23.047	(1.000)	668084	4.00000	
*	77 Perylene-d12	264	25.609	25.594	(1.000)	773194	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.128	28.113	(1.098)	43640	0.17207	0.1721
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192342S.D
Lab Smp Id: 23C0752-02
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\SIMABN2.m
Misc Info:

Calibration Date: 20-APR-2023
Calibration Time: 08:57
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	128281	64141	256562	175994	37.19
27 Naphthalene-d8	458707	229354	917414	635276	38.49
42 Acenaphthene-d10	243296	121648	486592	333579	37.11
59 Phenanthrene-d10	433853	216927	867706	657160	51.47
69 Chrysene-d12	435413	217707	870826	668084	53.44
77 Perylene-d12	490854	245427	981708	773194	57.52

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.84	8.34	9.34	8.84	0.00
27 Naphthalene-d8	11.31	10.81	11.81	11.31	0.00
42 Acenaphthene-d10	14.92	14.42	15.42	14.92	0.00
59 Phenanthrene-d10	17.95	17.45	18.45	17.95	0.04
69 Chrysene-d12	23.05	22.55	23.55	23.06	0.03
77 Perylene-d12	25.59	25.09	26.09	25.61	0.06

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

REVIEW SUMMARY FOR FILE - NT1004192342S.D

Lab ID: 23C0752-02
nt10.i, 20230419B.b\20230419B.b\SIMABN2.m,   20-APR-2023 13:24

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230419B.b/NT1004192335S.D

On Column LOD for nt10.i, 20230419B.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1132

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E-SIM

SIM SVOC Organics (Dual scan list)

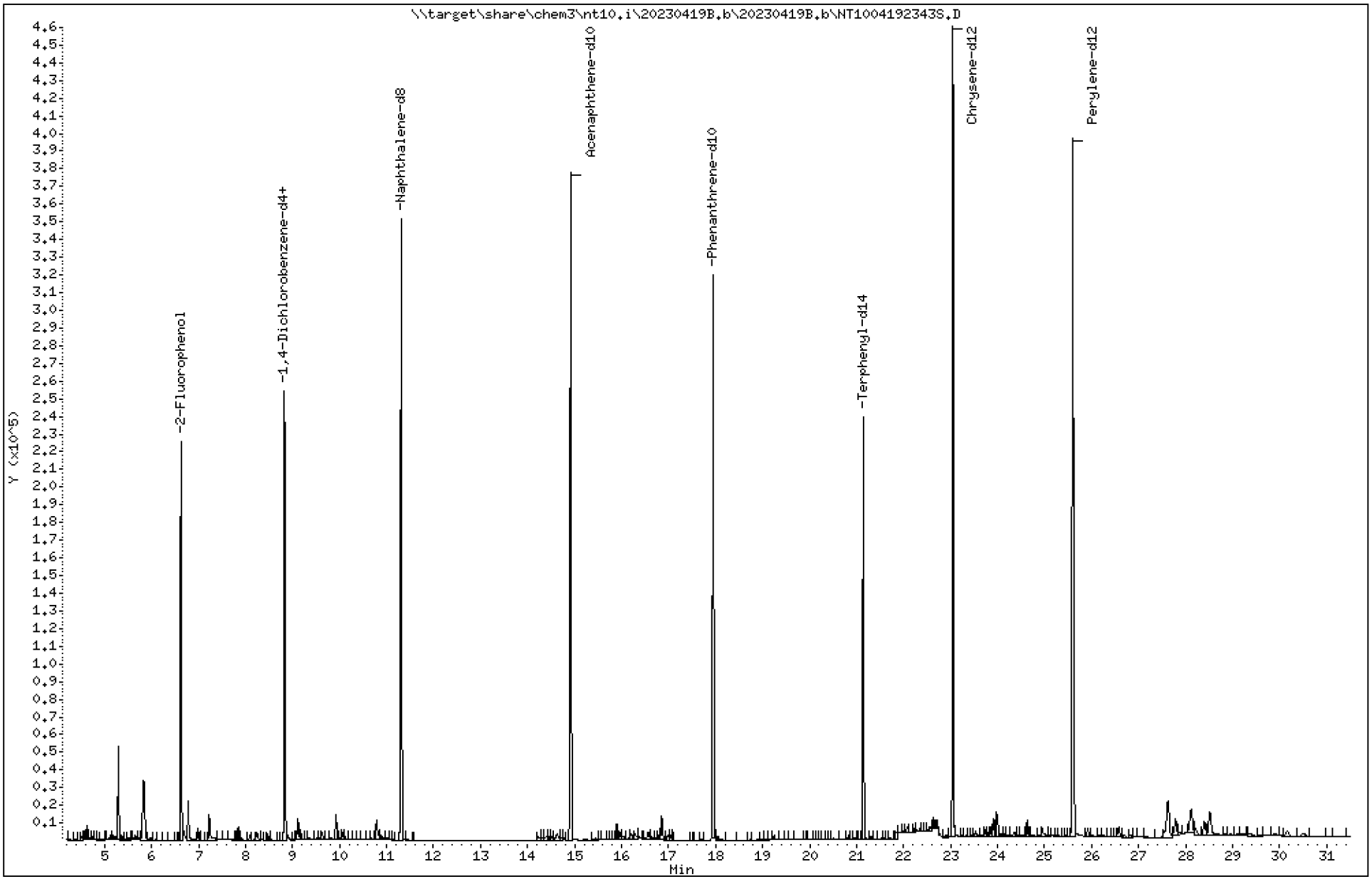
Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-03 A	SDG:	23C0752
Sampled:	03/30/23 11:30	Prepared:	04/03/23 11:31	File ID:	NT1004192343S.D
% Solids:	50.66	Preparation:	EPA 3546 (Microwave)	Analyzed:	04/20/23 14:02
Batch:	BLD0008	Sequence:	SLD0302	Initial/Final:	19.76 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00049
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
106-46-7	1,4-Dichlorobenzene	1	0.9	J	0.6	5.0
95-50-1	1,2-Dichlorobenzene	1	5.0	U	0.7	5.0
100-51-6	Benzyl Alcohol	1	37.1		2.5	20.0
65-85-0	Benzoic acid	1	71.1	J	13.4	99.9
105-67-9	2,4-Dimethylphenol	1	20.0	U	2.2	20.0
120-82-1	1,2,4-Trichlorobenzene	1	5.0	U	2.7	5.0
86-30-6	N-Nitrosodiphenylamine	1	5.0	U	1.3	5.0
87-86-5	Pentachlorophenol	1	2.9	J	2.1	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	749.22	469	62.6	27 - 120	
p-Terphenyl-d14	499.48	328	65.7	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT10041923435.D
Date : 20-APR-2023 14:02
Client ID:
Sample Info: 23C0752-03
Volume Injected (uL): 1.0
Column phase: ZB-5msi

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



Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192343S.D

Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

Volume Injected (uL): 1.0

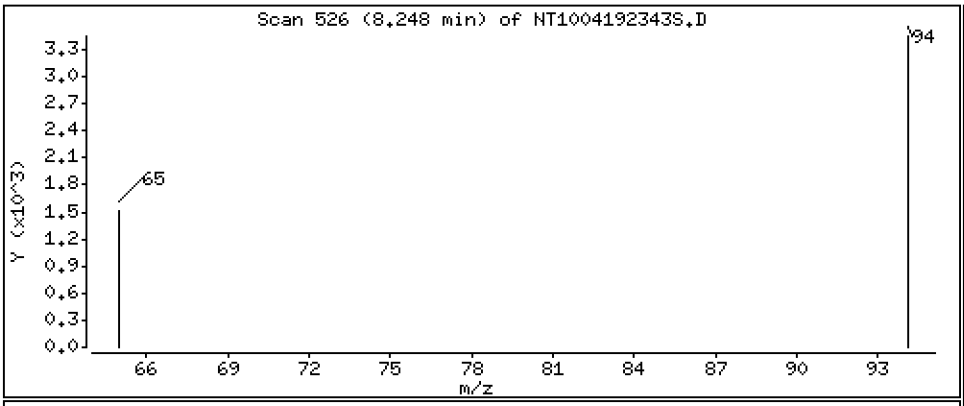
Operator: DSD

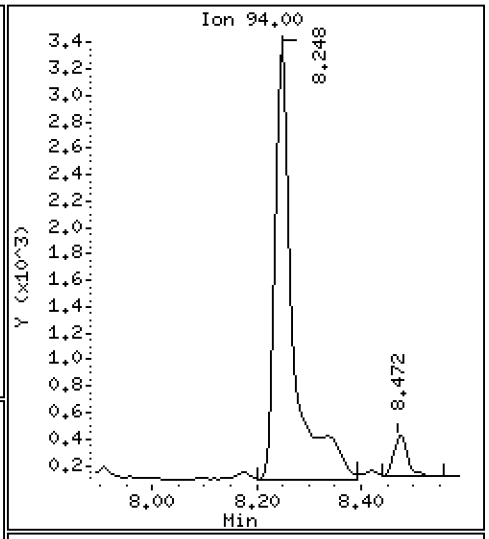
Column phase: ZB-5msi

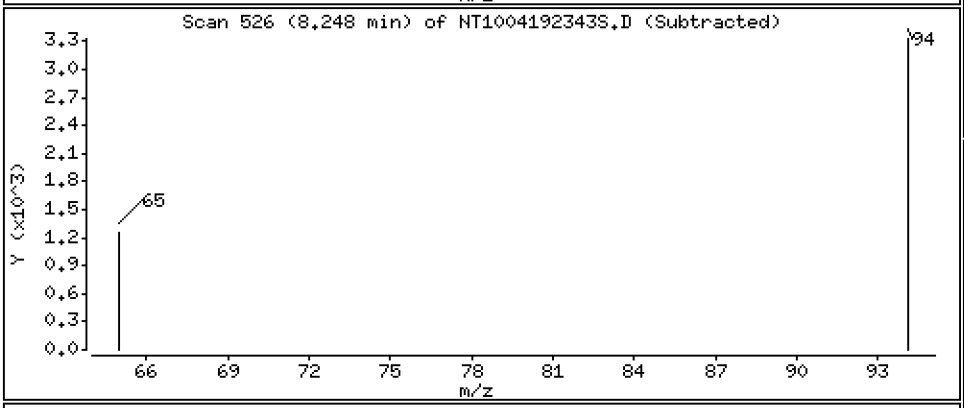
Column diameter: 0.25

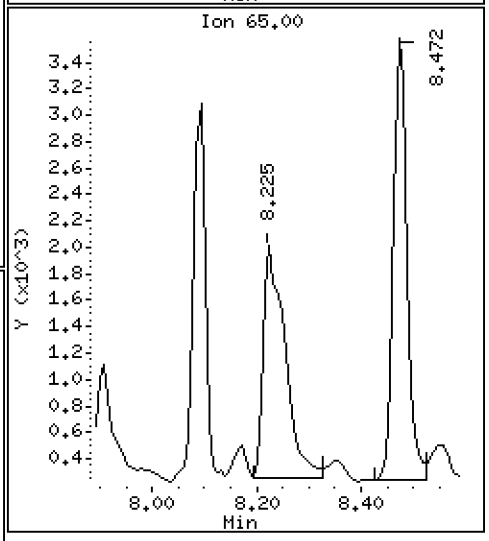
3 Phenol

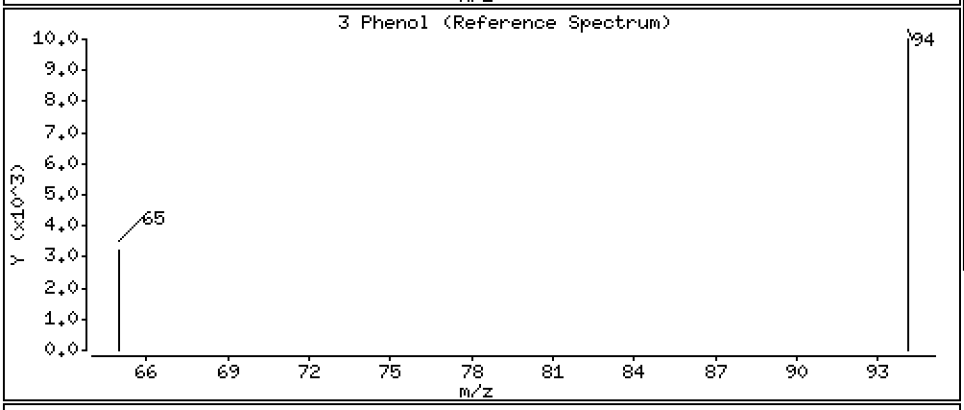
Concentration: 0.1194 ug/L

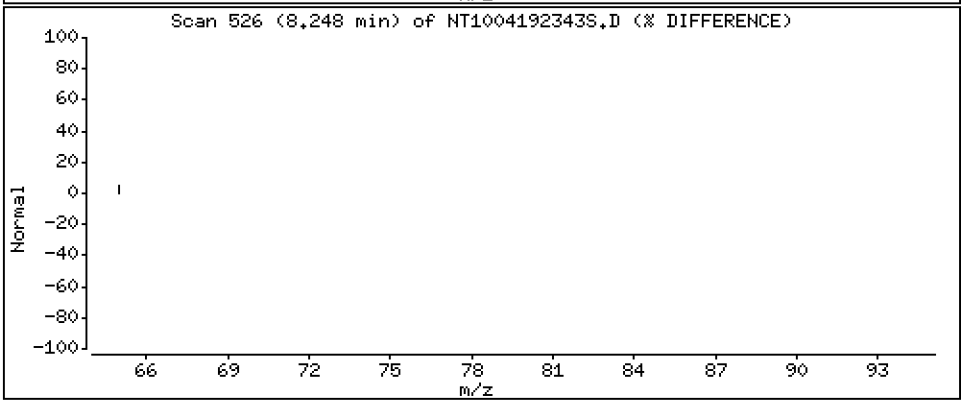












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192343S.D

Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

Volume Injected (uL): 1.0

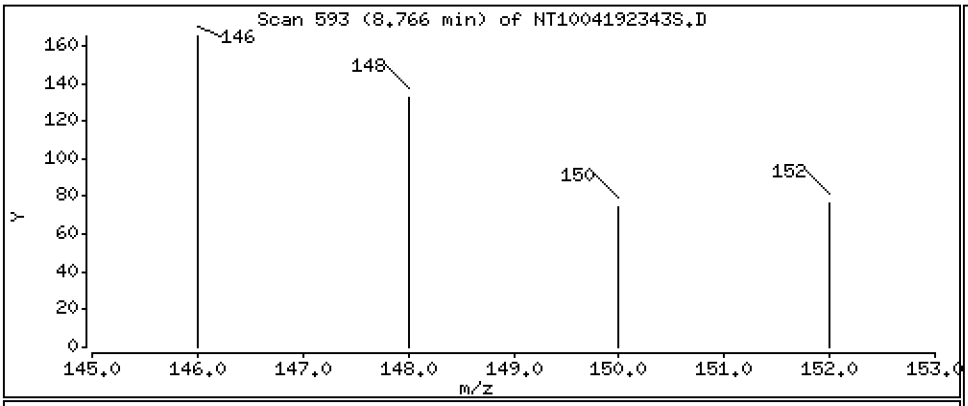
Operator: DSD

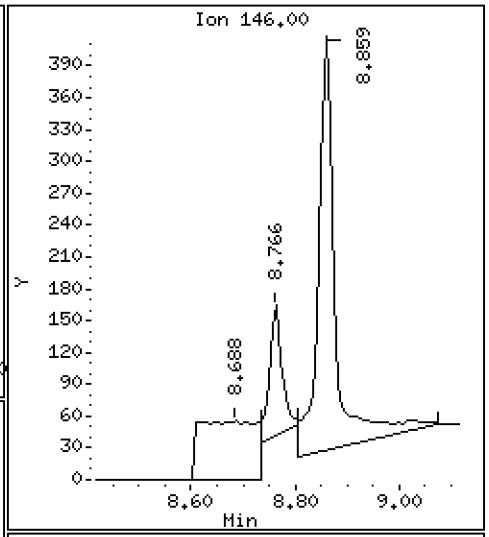
Column phase: ZB-5msi

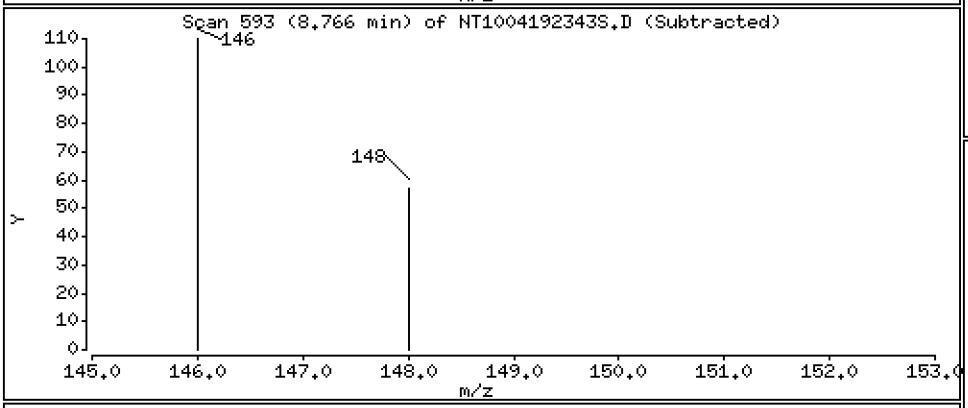
Column diameter: 0.25

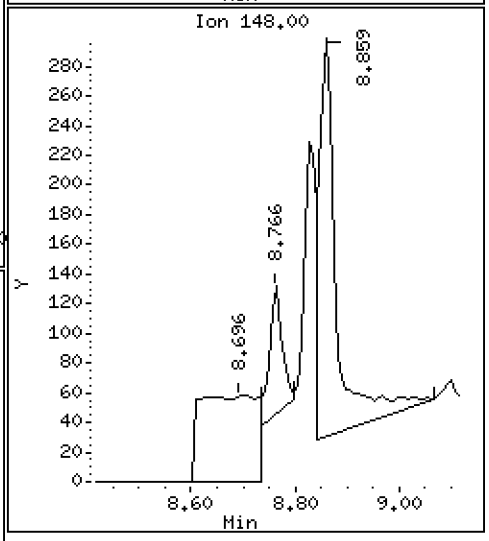
7 1,3-Dichlorobenzene

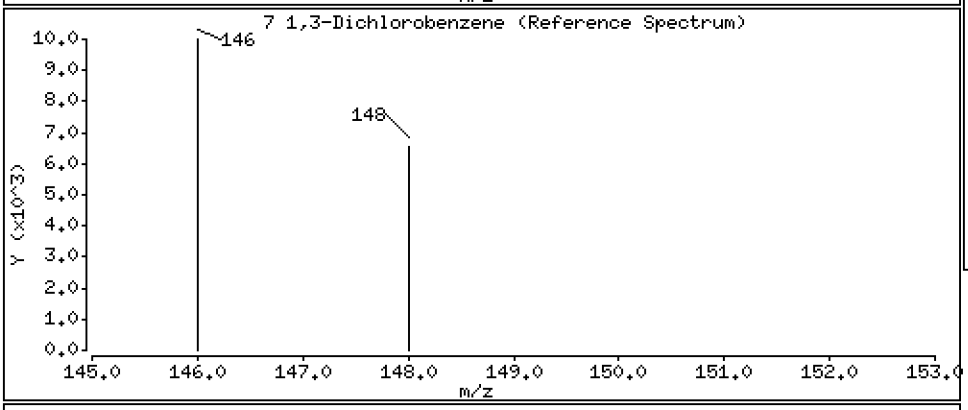
Concentration: 0.003368 ug/L

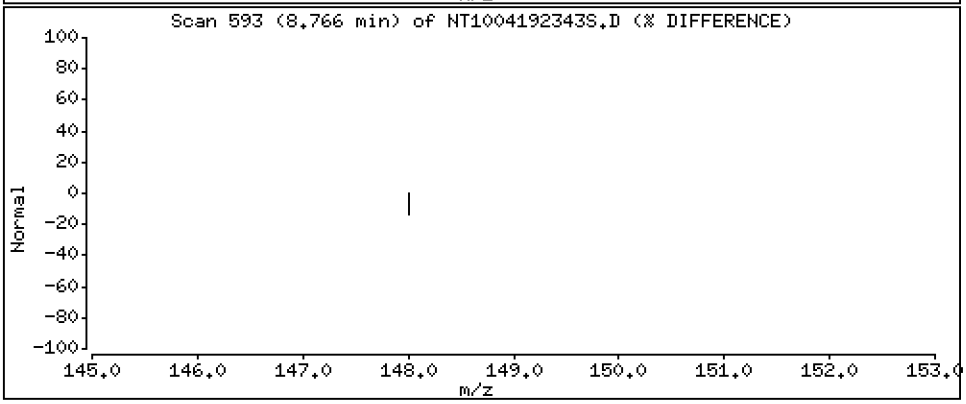












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192343S.D

Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

Volume Injected (uL): 1.0

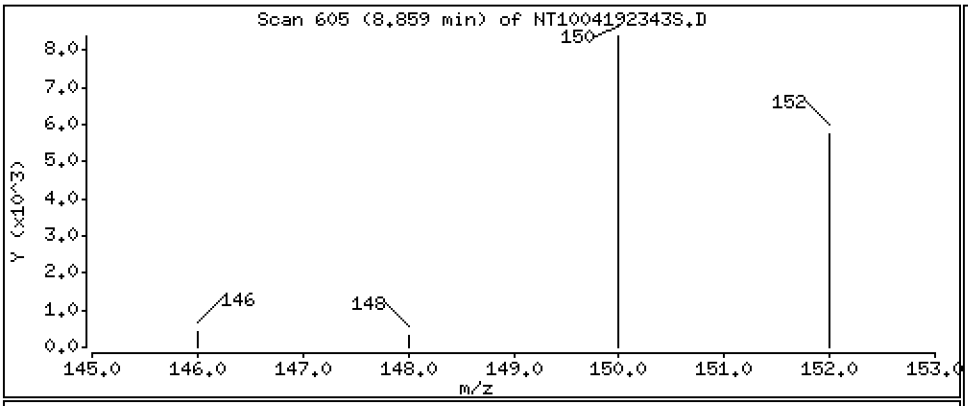
Operator: DSD

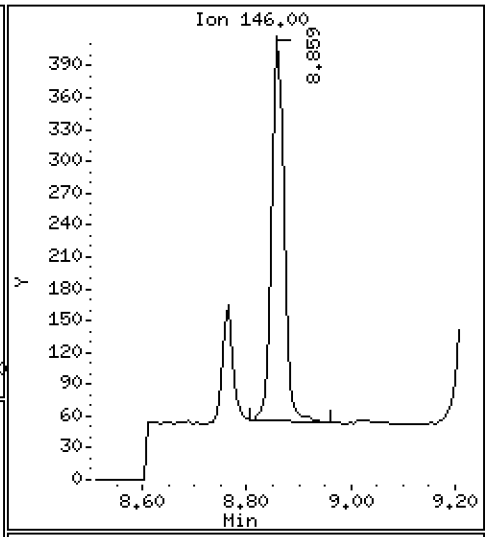
Column phase: ZB-5msi

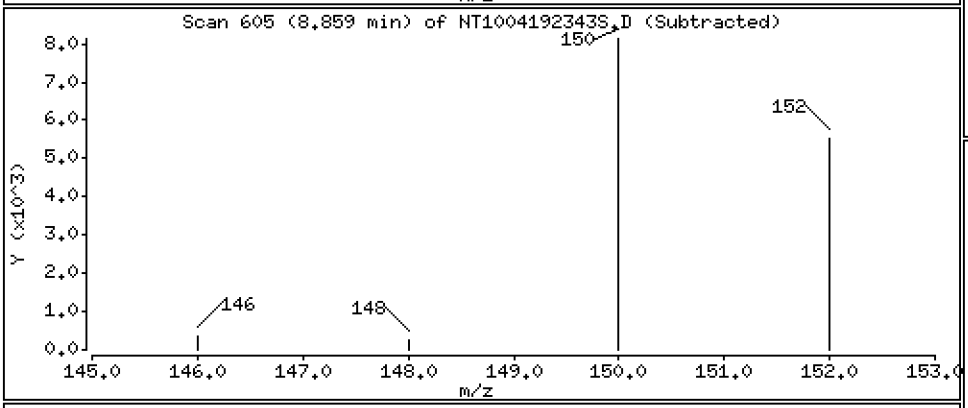
Column diameter: 0.25

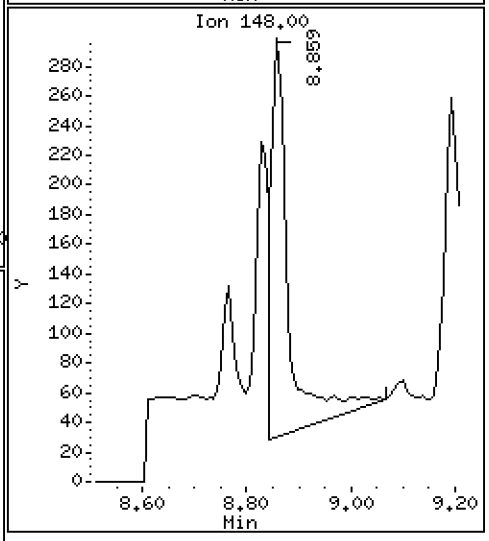
9 1,4-Dichlorobenzene

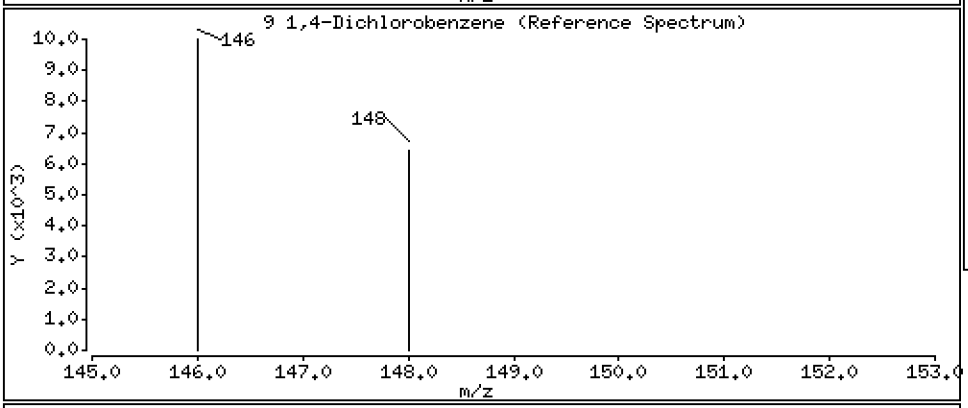
Concentration: 0.009415 ug/L

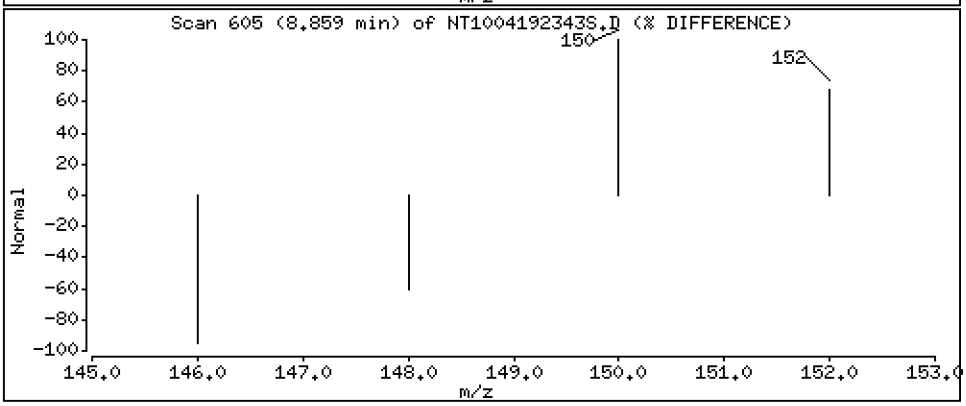












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192343S.D

Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

Volume Injected (uL): 1.0

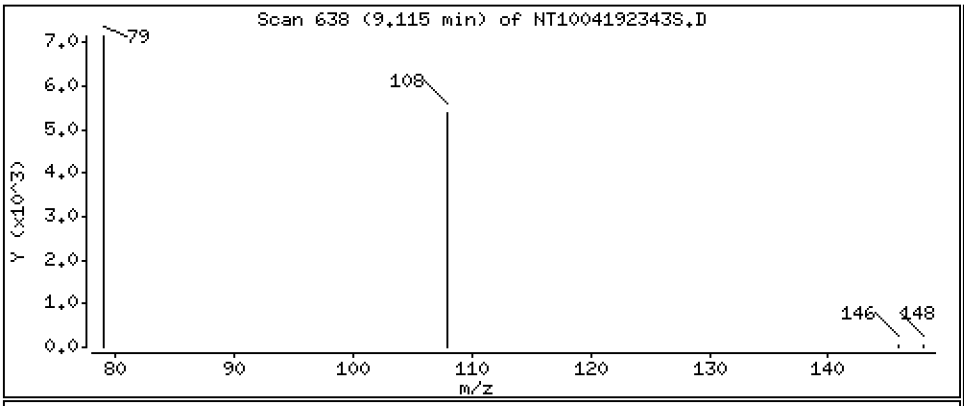
Operator: DSD

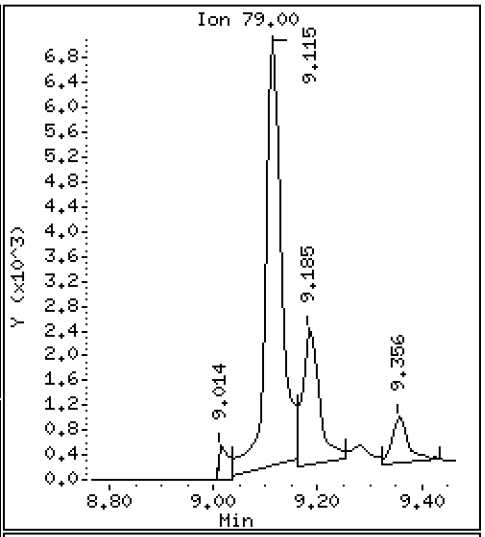
Column phase: ZB-5msi

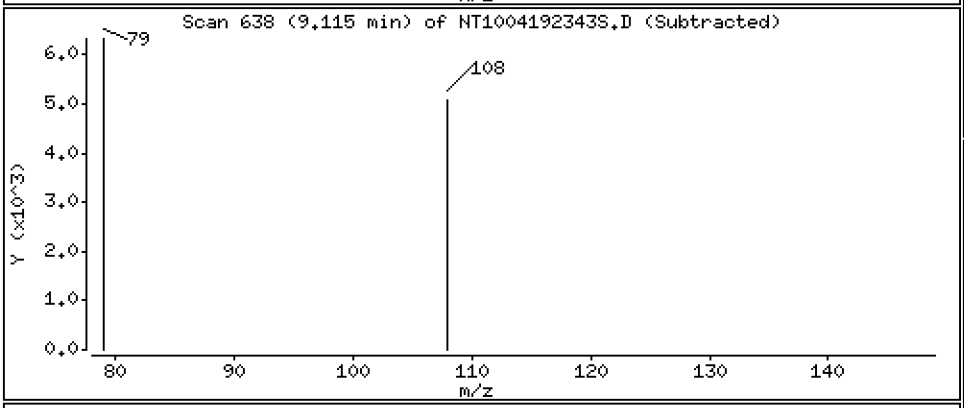
Column diameter: 0.25

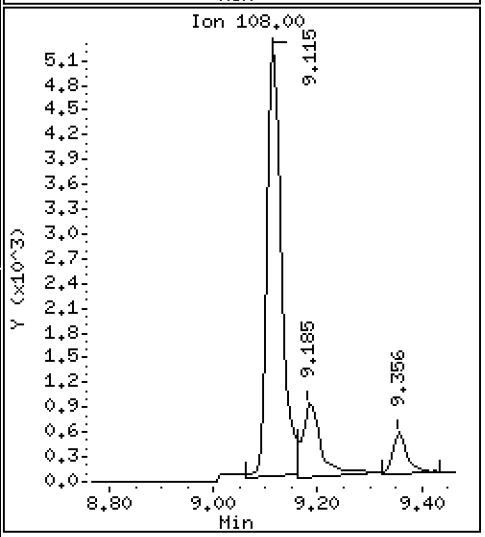
11 Benzyl alcohol

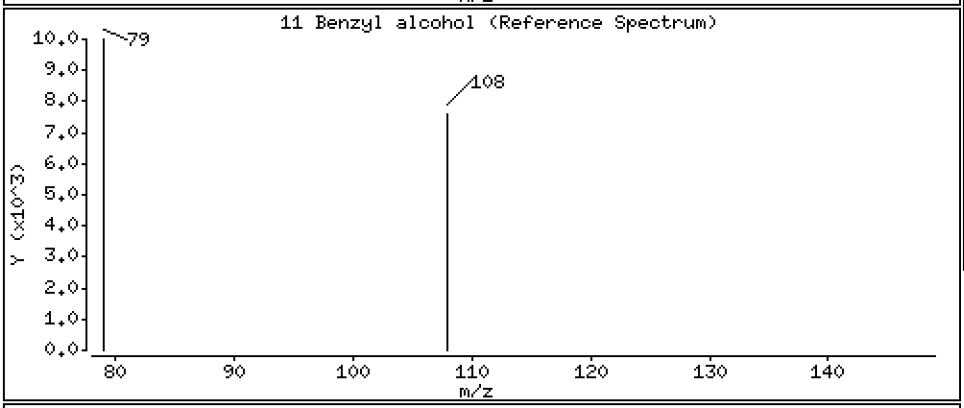
Concentration: 0.3710 ug/L

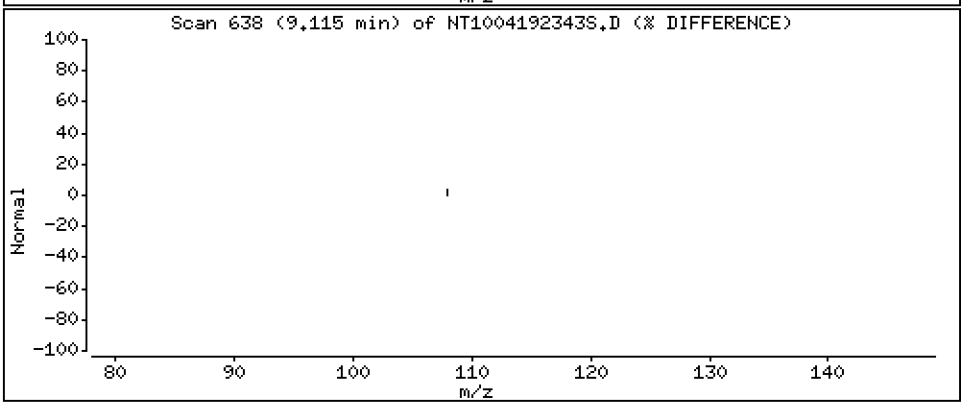












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192343S.D

Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

Volume Injected (uL): 1.0

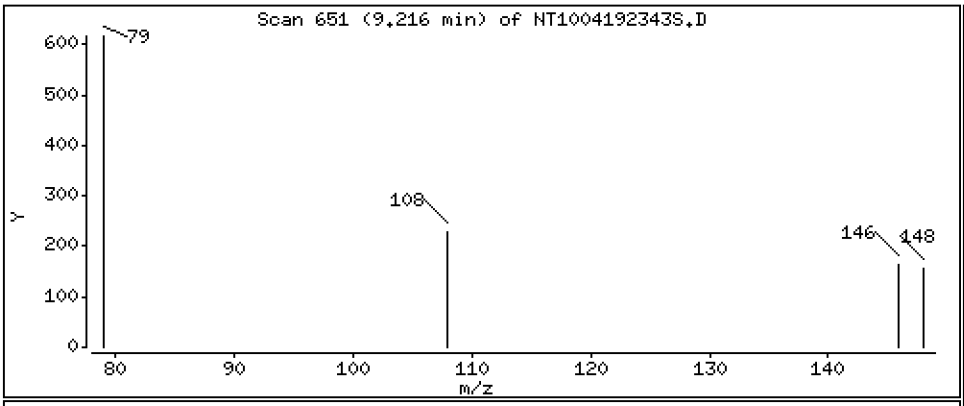
Operator: DSD

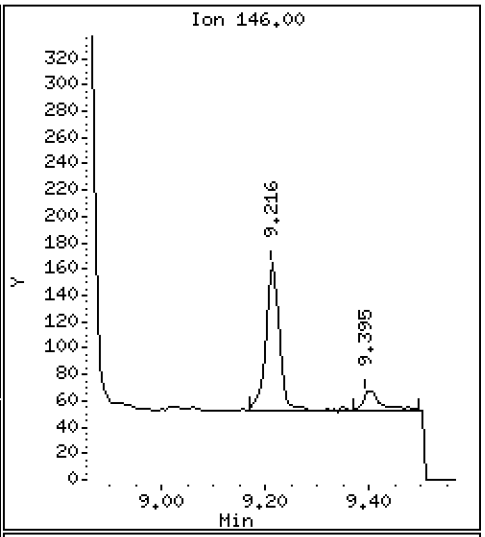
Column phase: ZB-5msi

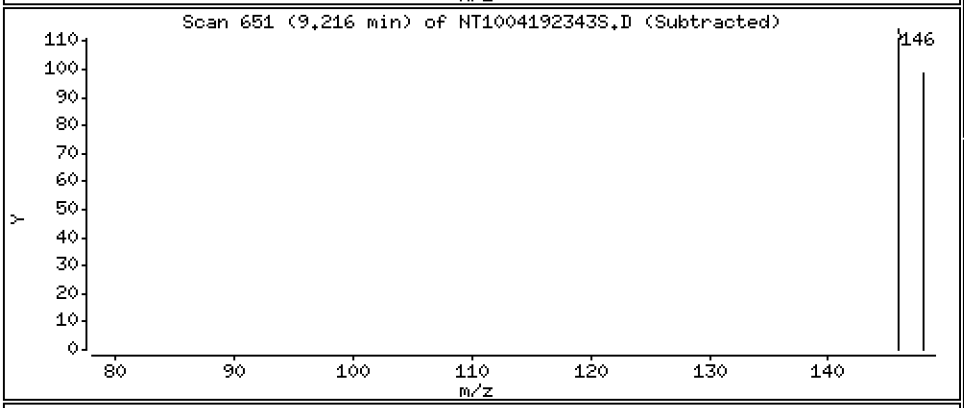
Column diameter: 0.25

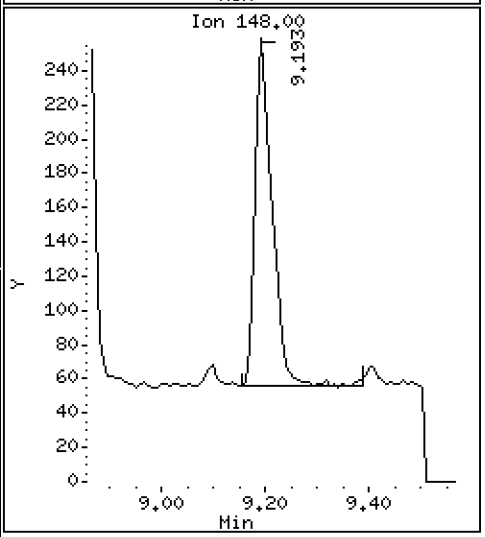
12 1,2-Dichlorobenzene

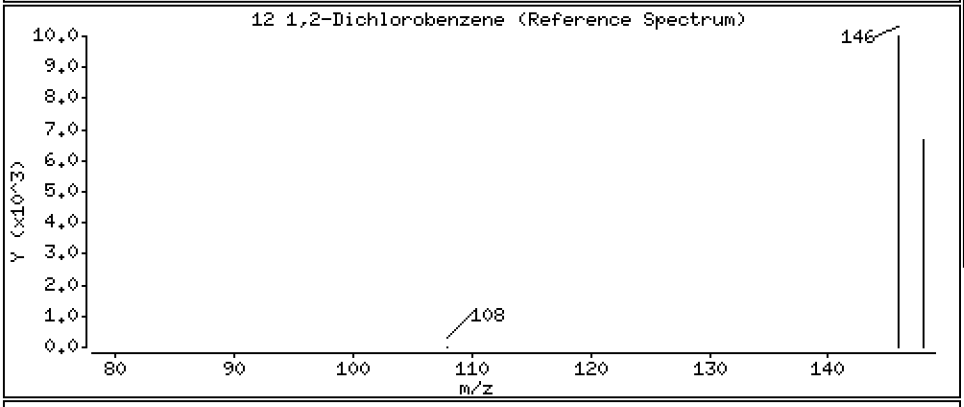
Concentration: 0.003157 ug/L

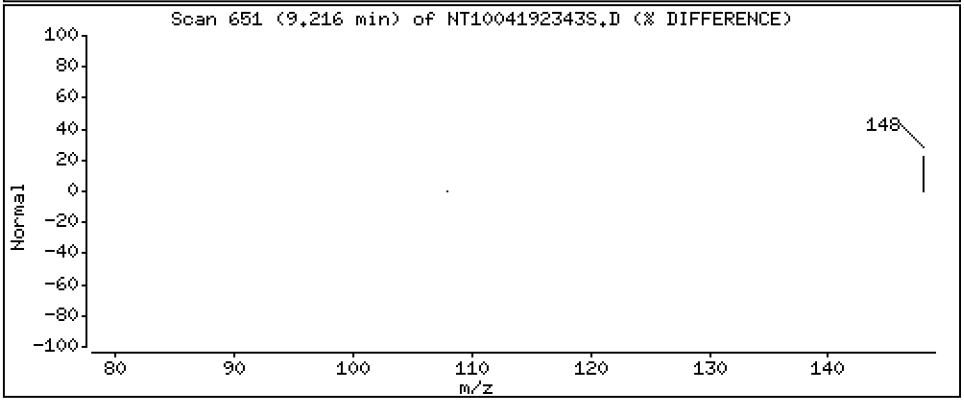












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192343S.D

Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

Volume Injected (uL): 1.0

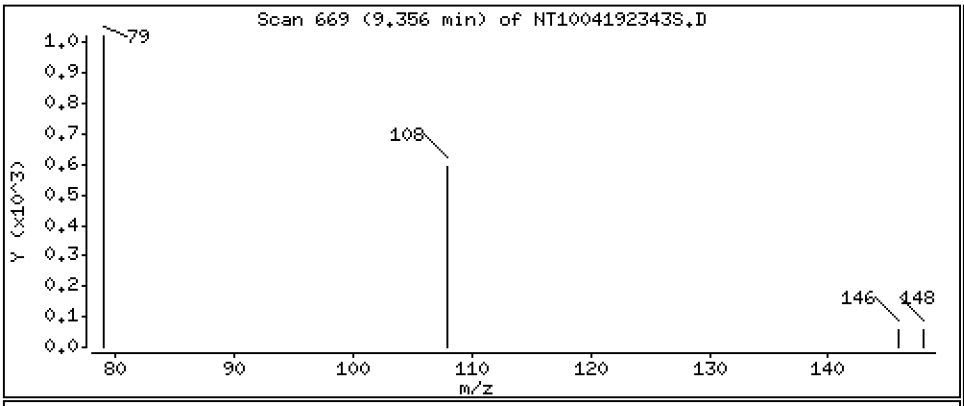
Operator: DSD

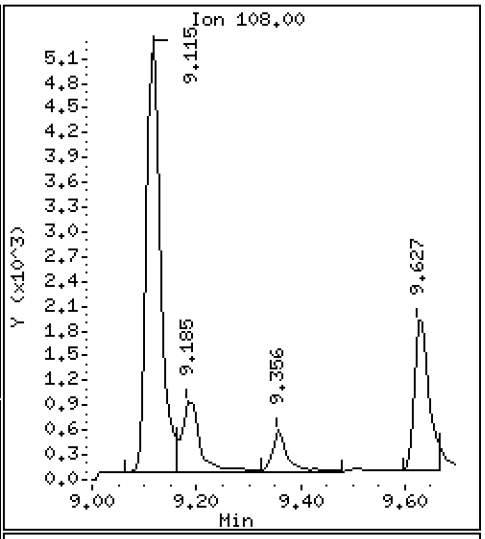
Column phase: ZB-5msi

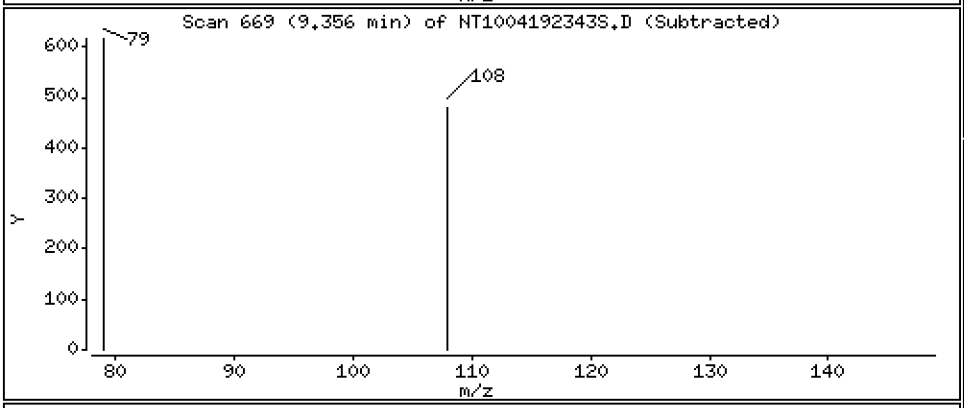
Column diameter: 0.25

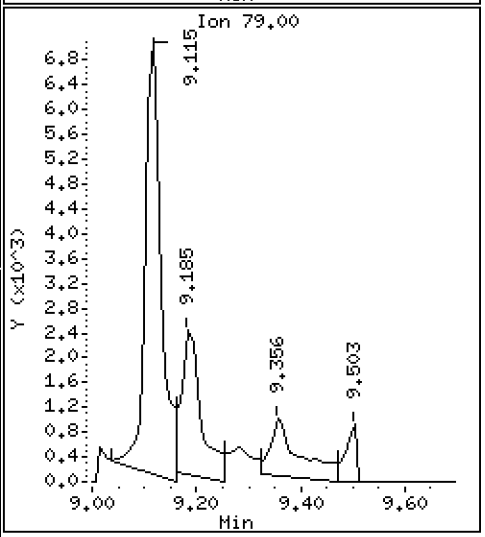
13 2-Methylphenol

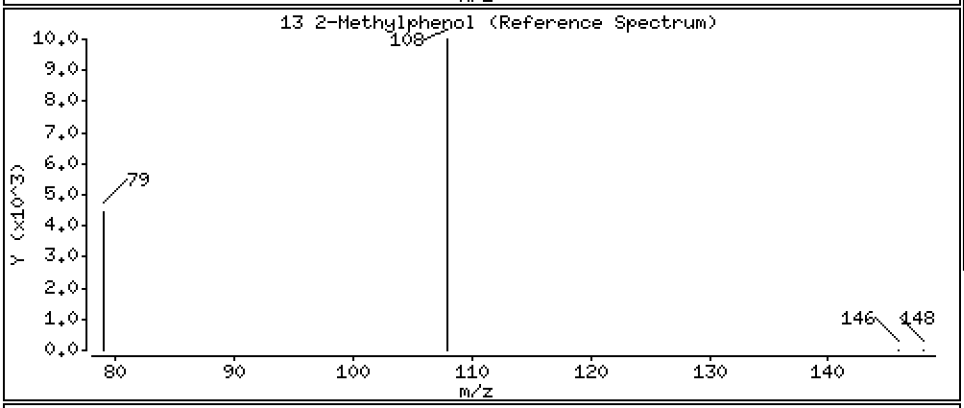
Concentration: 0.02085 ug/L

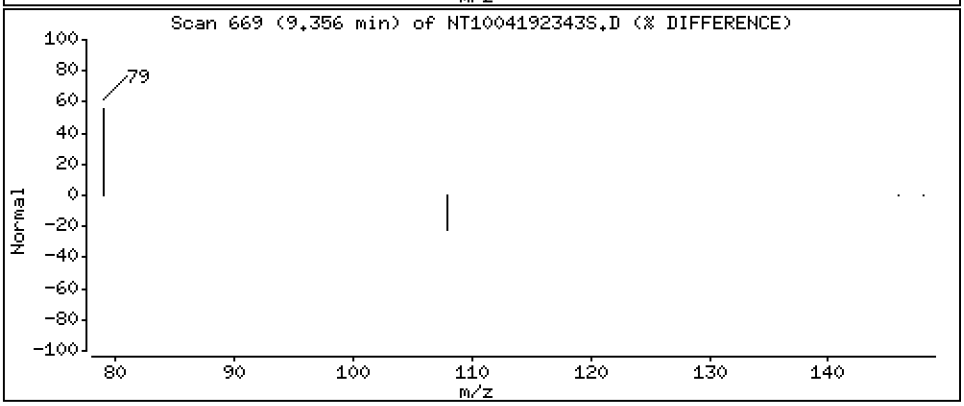












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

Volume Injected (uL): 1.0

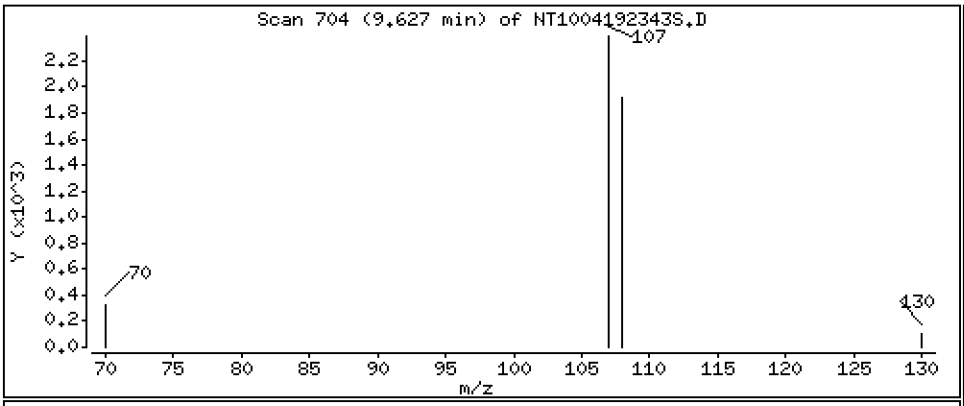
Operator: DSD

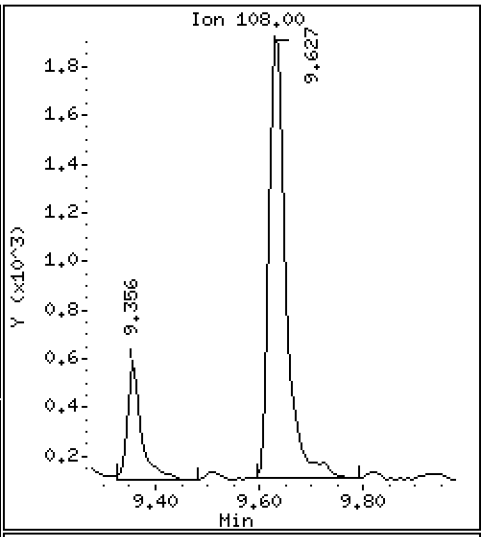
Column phase: ZB-5msi

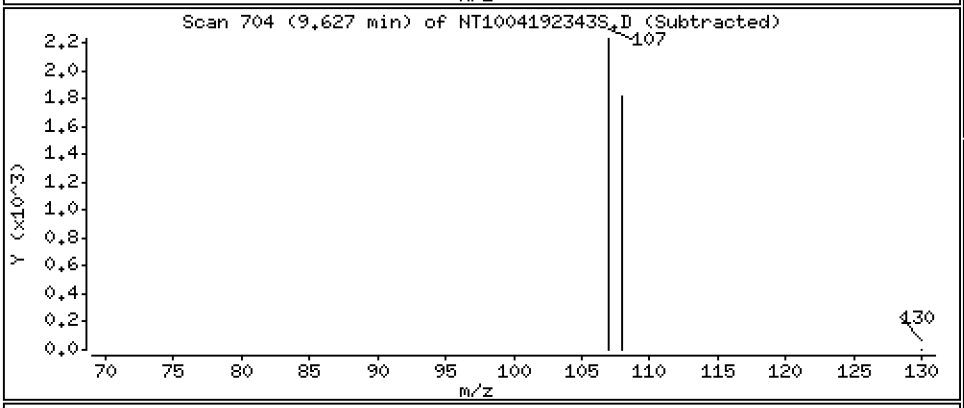
Column diameter: 0.25

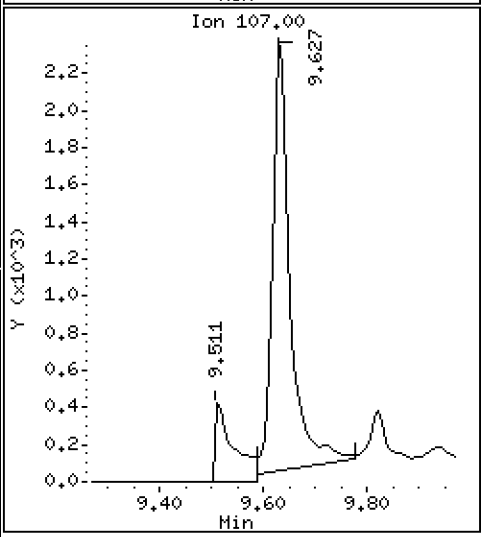
15 4-Methylphenol

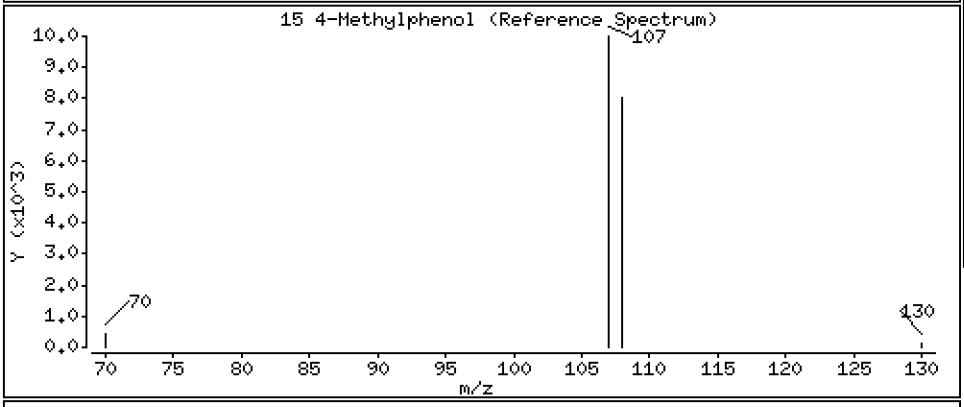
Concentration: 0.08377 ug/L

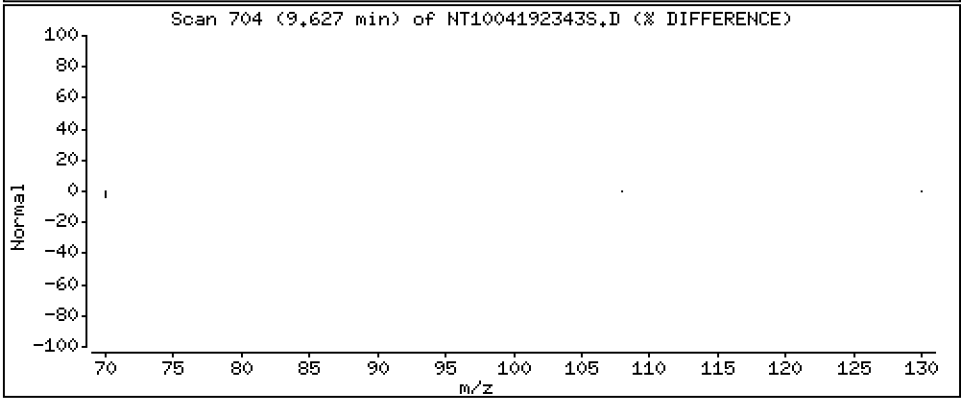












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

Volume Injected (uL): 1.0

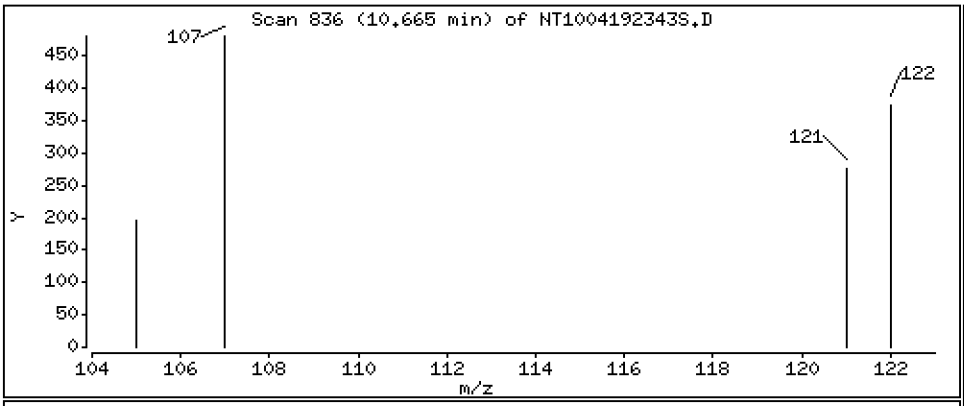
Operator: DSD

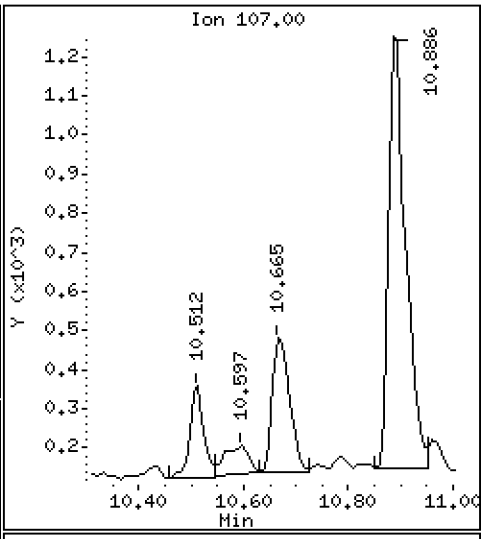
Column phase: ZB-5msi

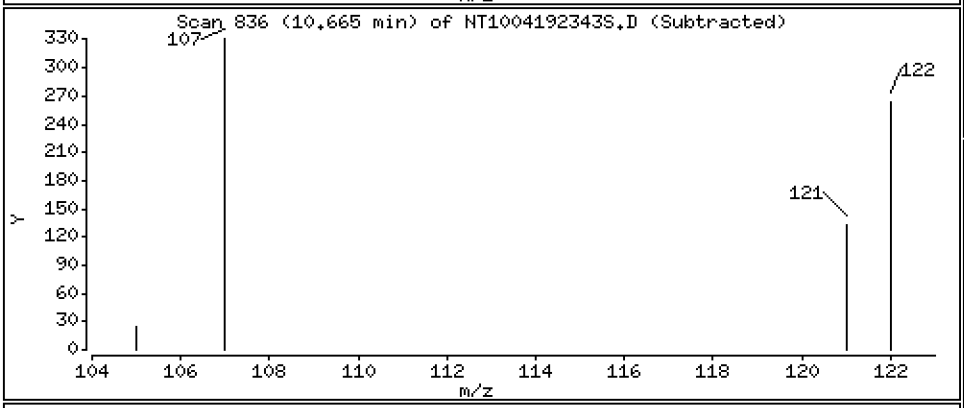
Column diameter: 0.25

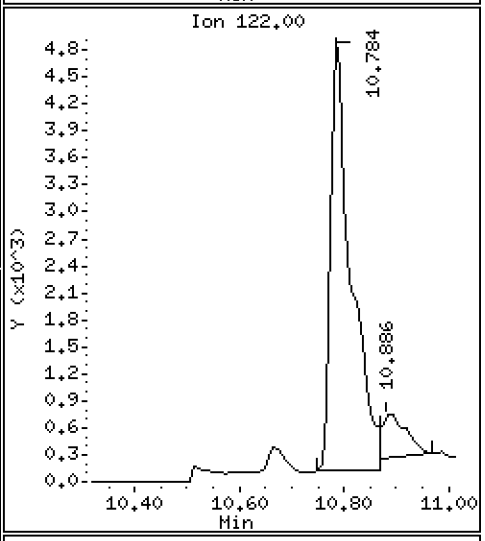
22 2,4-Dimethylphenol

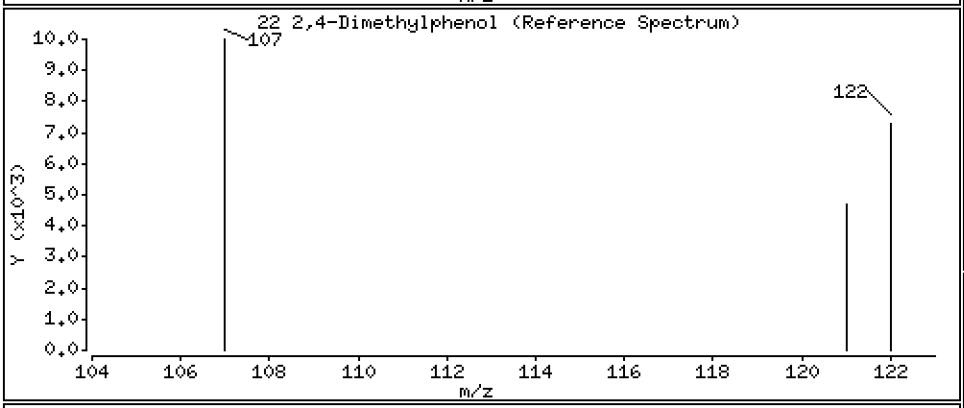
Concentration: 0.01649 ug/L

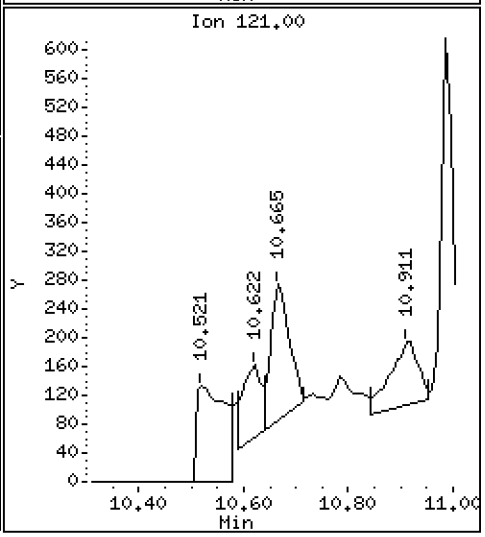


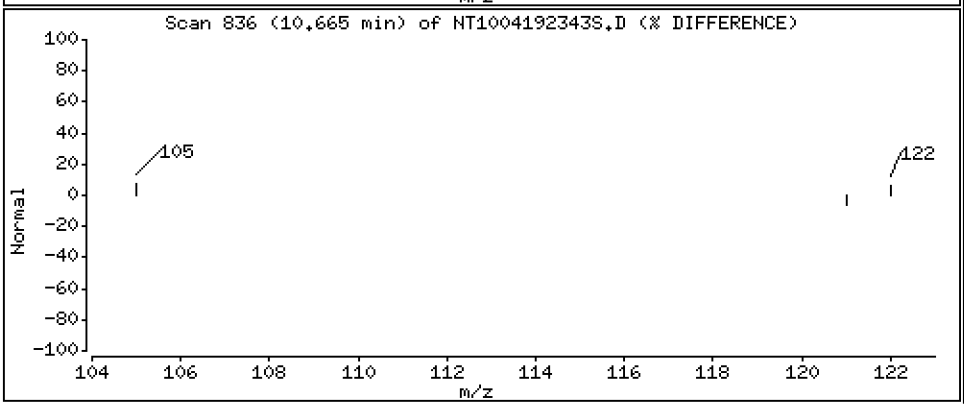












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192343S.D

Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

Volume Injected (uL): 1.0

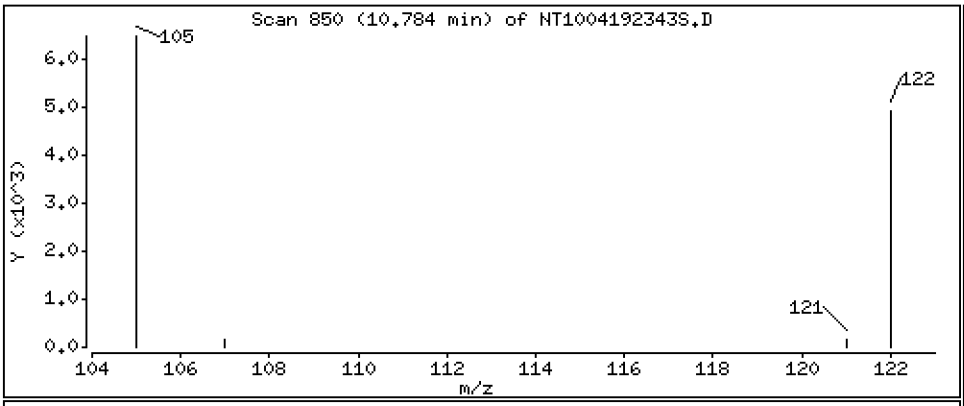
Operator: DSD

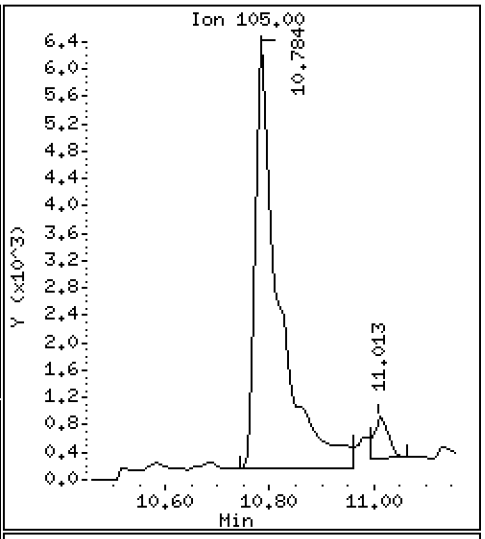
Column phase: ZB-5msi

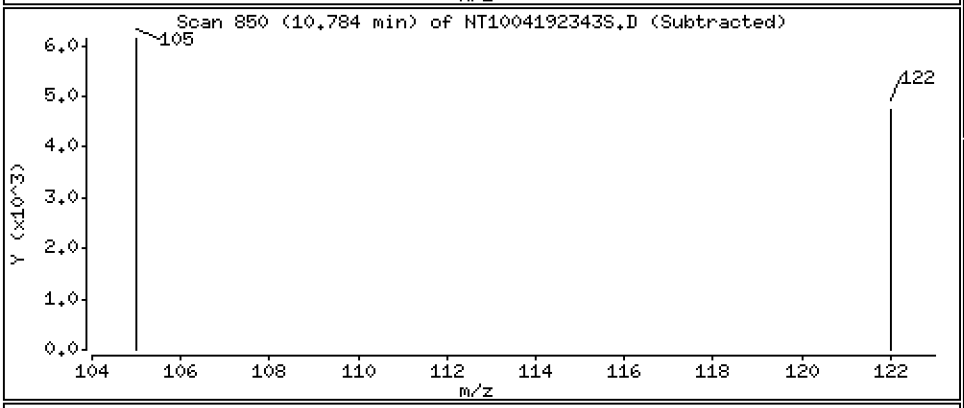
Column diameter: 0.25

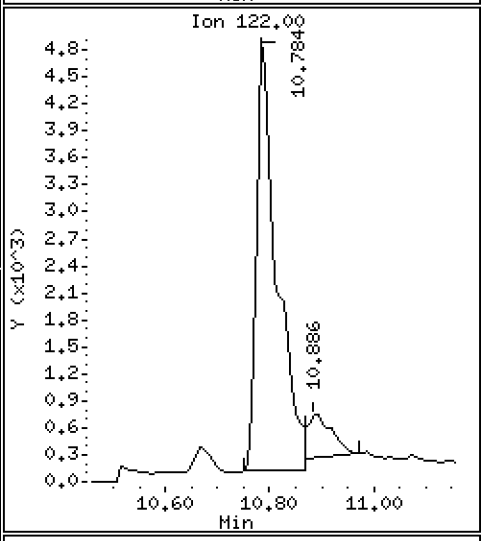
24 Benzoic acid

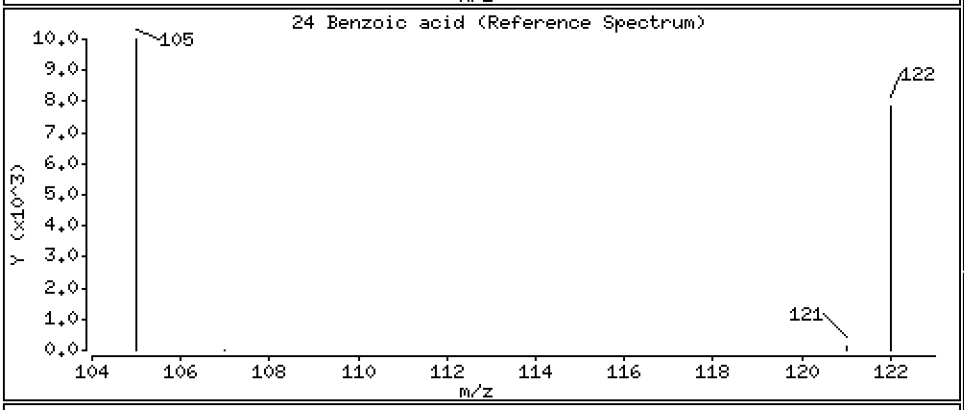
Concentration: 0.7121 ug/L

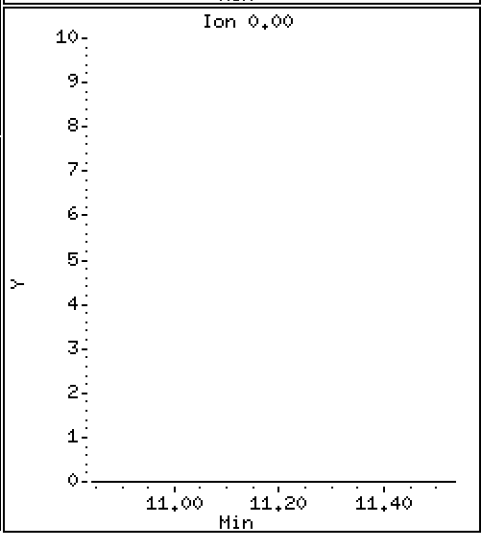


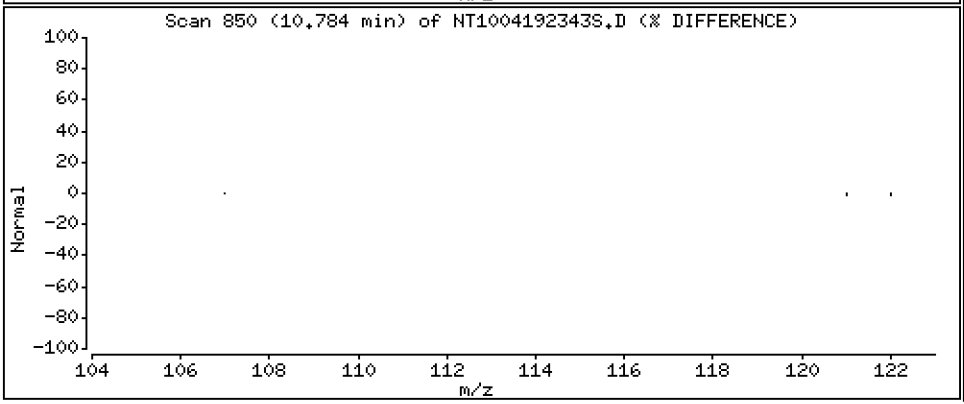












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

Volume Injected (uL): 1.0

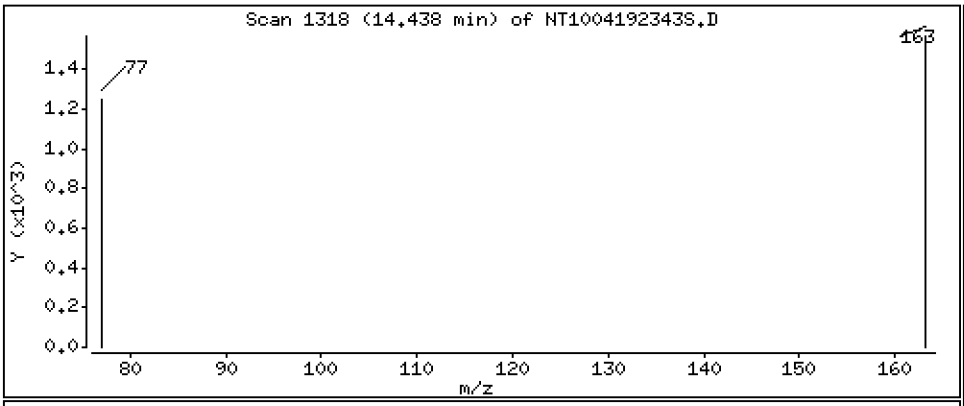
Operator: DSD

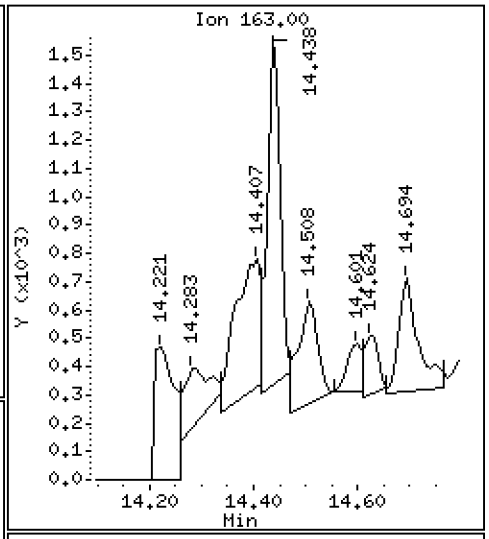
Column phase: ZB-5msi

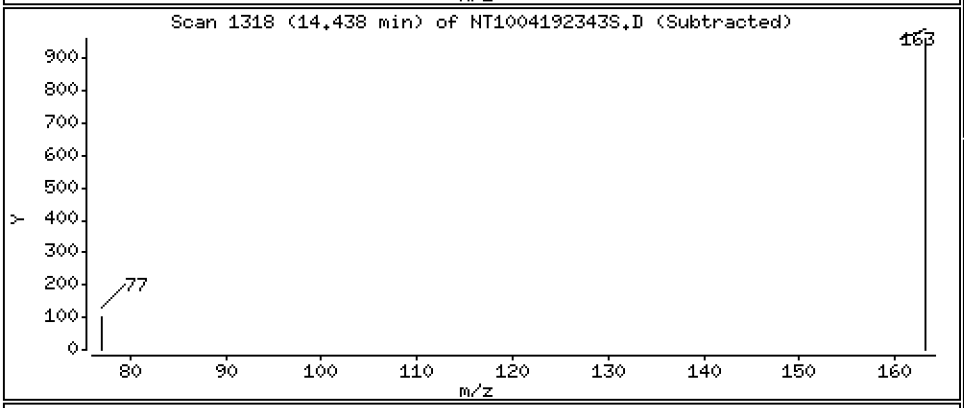
Column diameter: 0.25

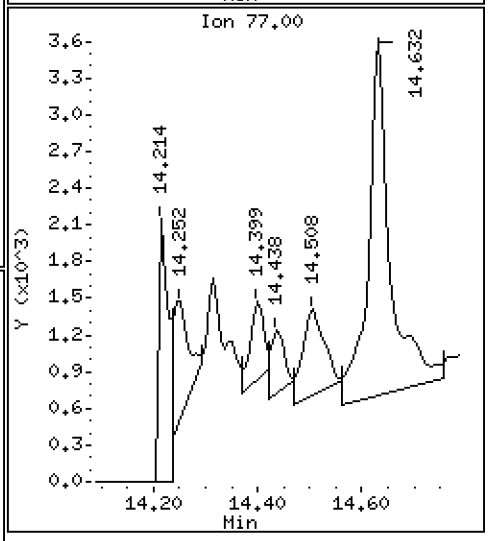
39 Dimethylphthalate

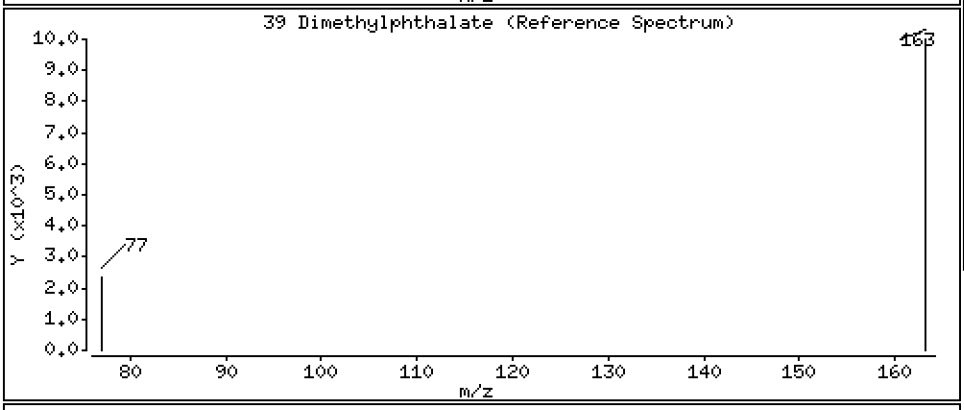
Concentration: 0.02236 ug/L

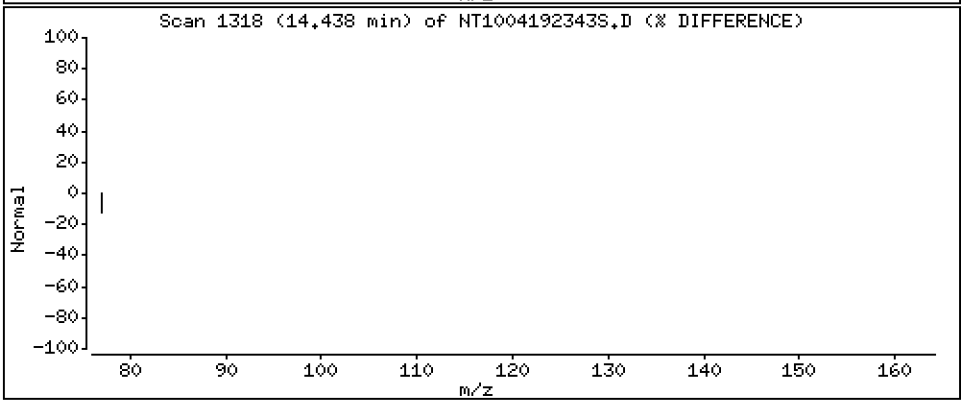












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192343S.D

Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

Volume Injected (uL): 1.0

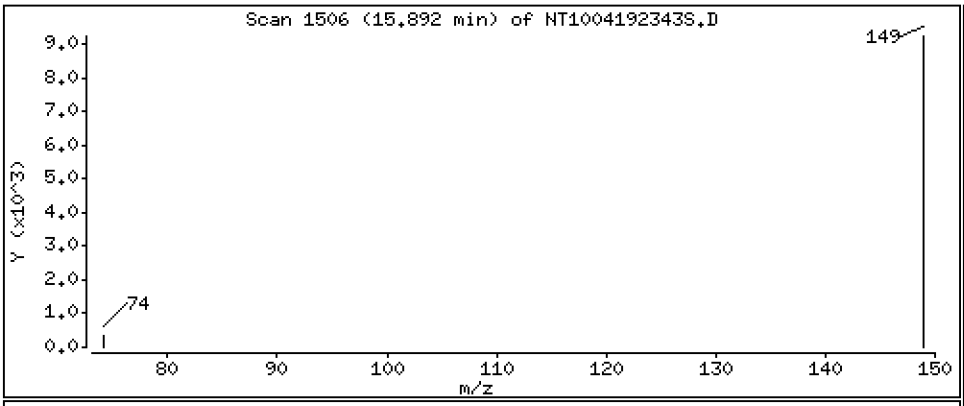
Operator: DSD

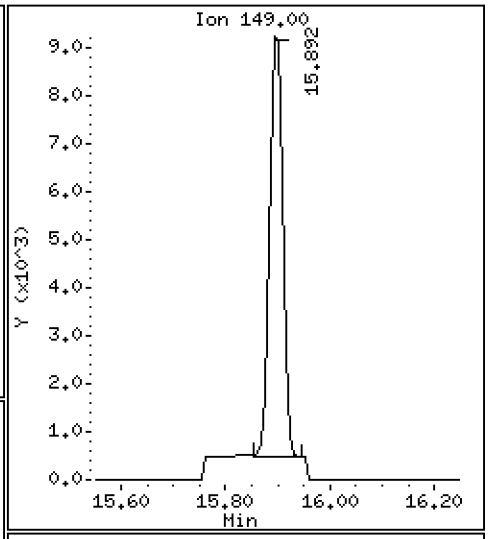
Column phase: ZB-5msi

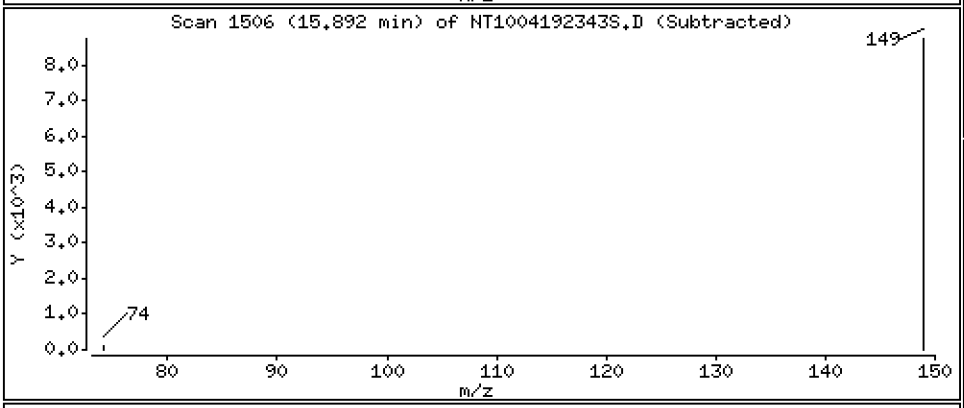
Column diameter: 0.25

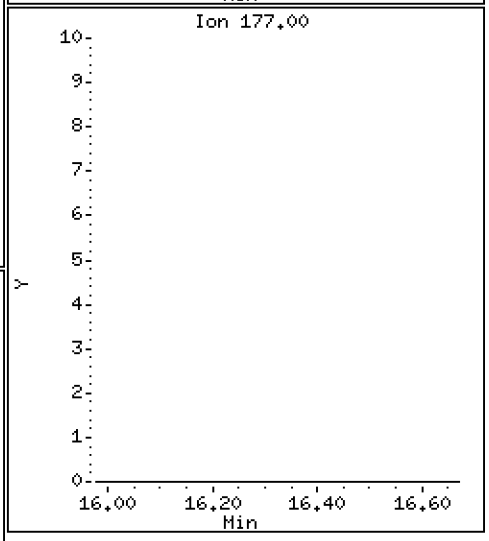
50 Diethylphthalate

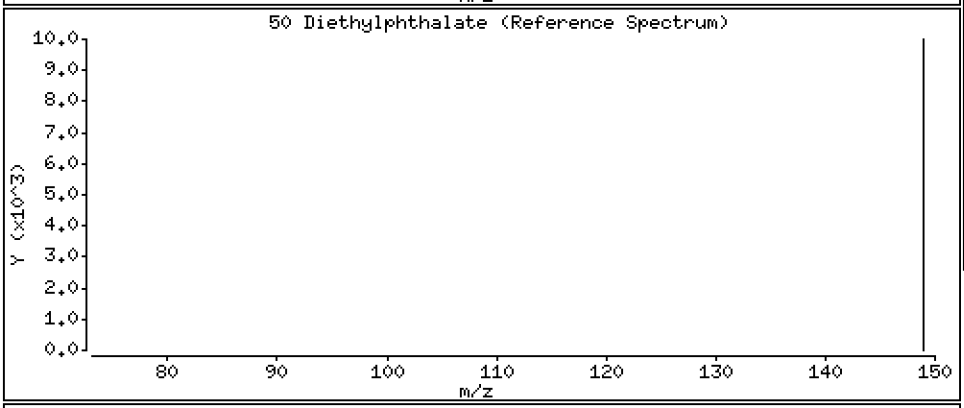
Concentration: 0.1536 ug/L

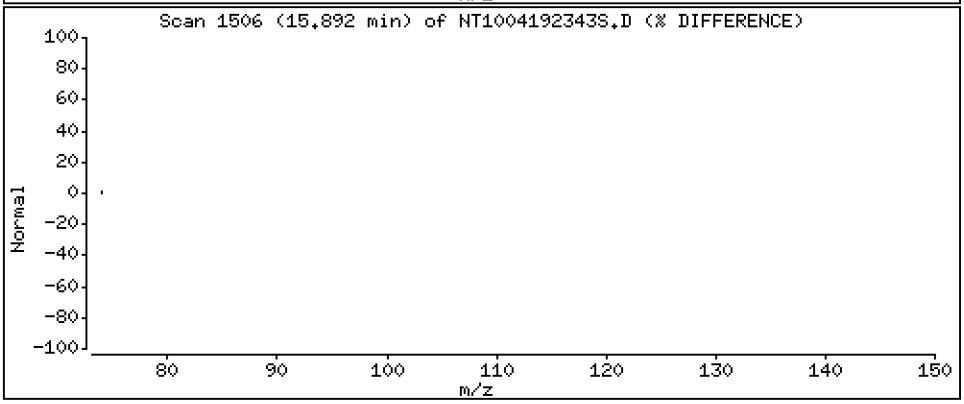












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Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

Volume Injected (uL): 1.0

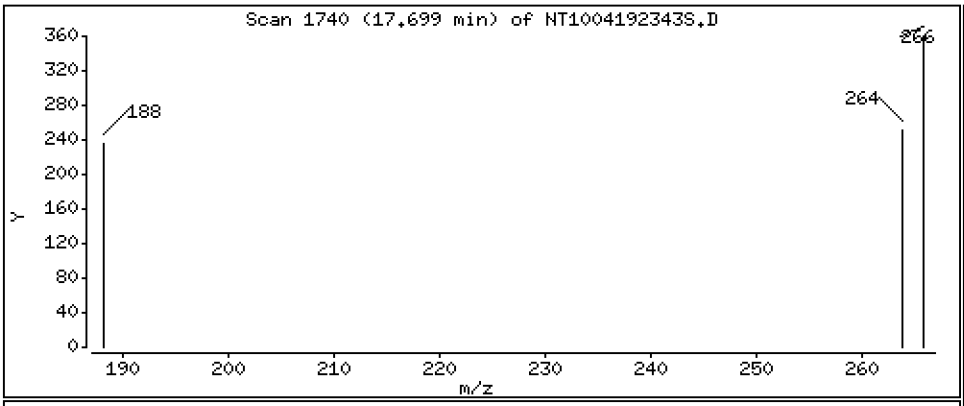
Operator: DSD

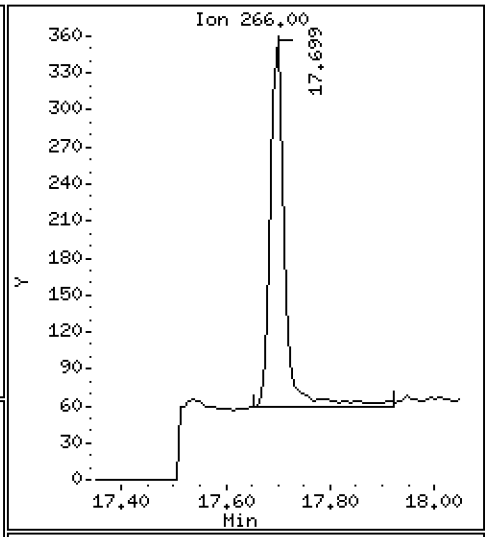
Column phase: ZB-5msi

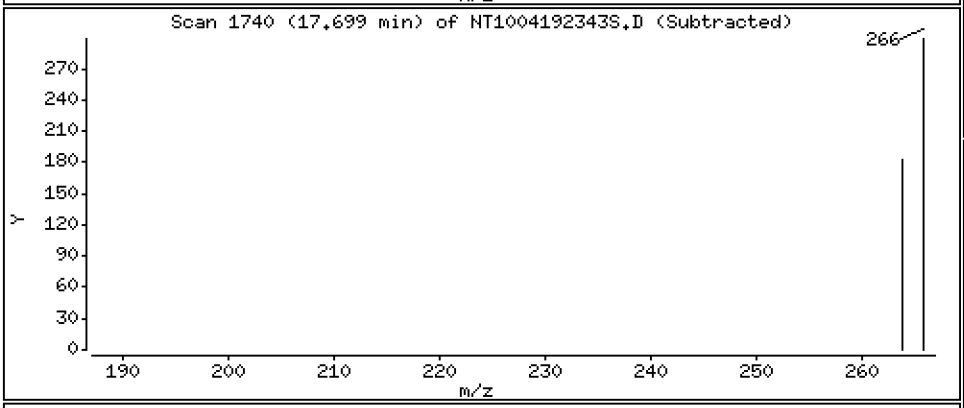
Column diameter: 0.25

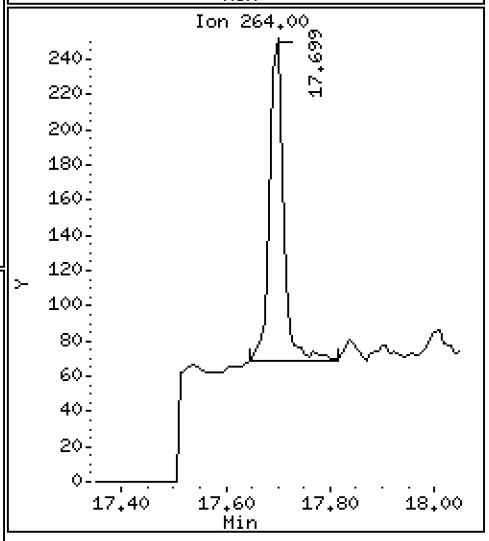
58 Pentachlorophenol

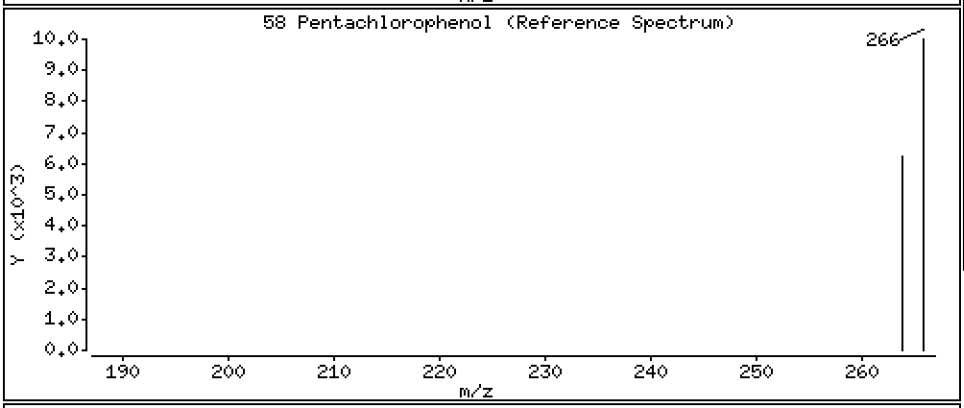
Concentration: 0.02923 ug/L

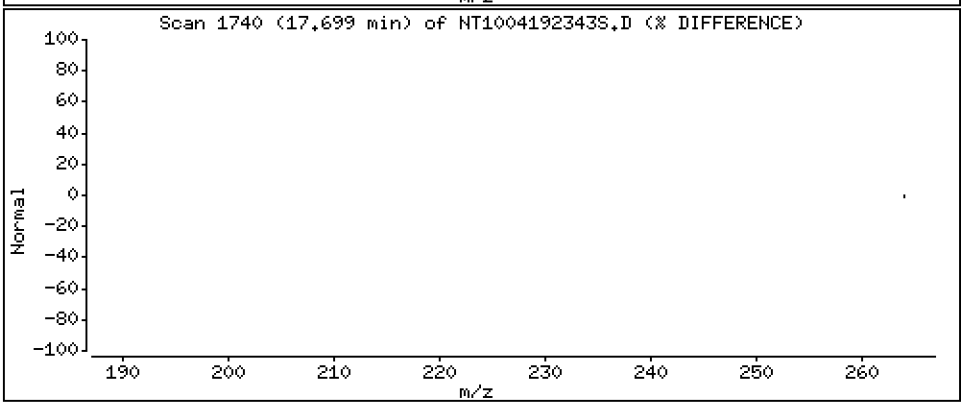












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192343S.D

Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

Volume Injected (uL): 1.0

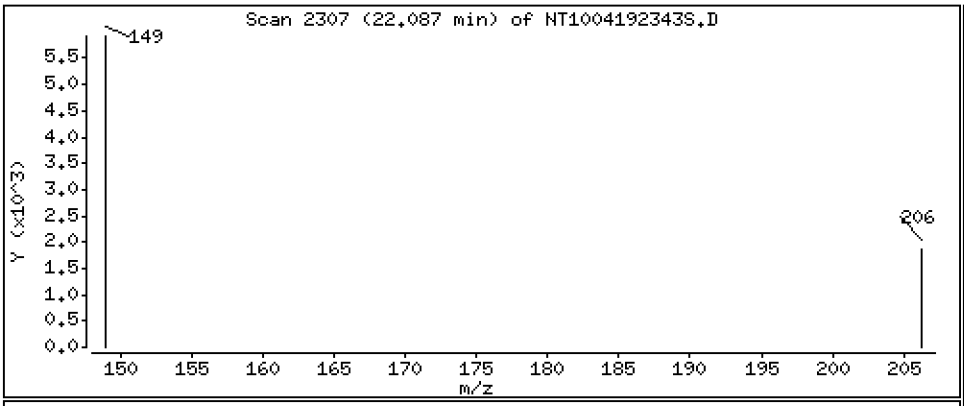
Operator: DSD

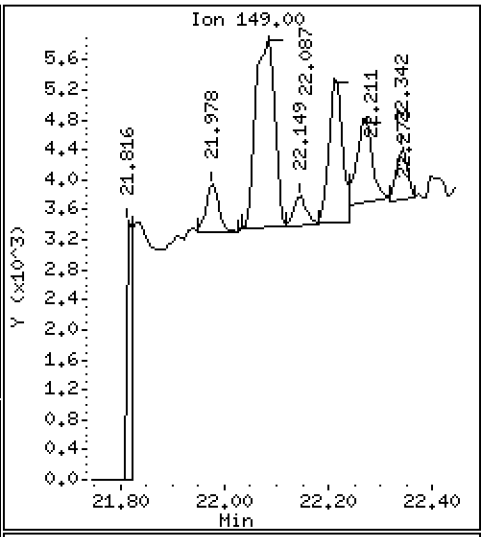
Column phase: ZB-5msi

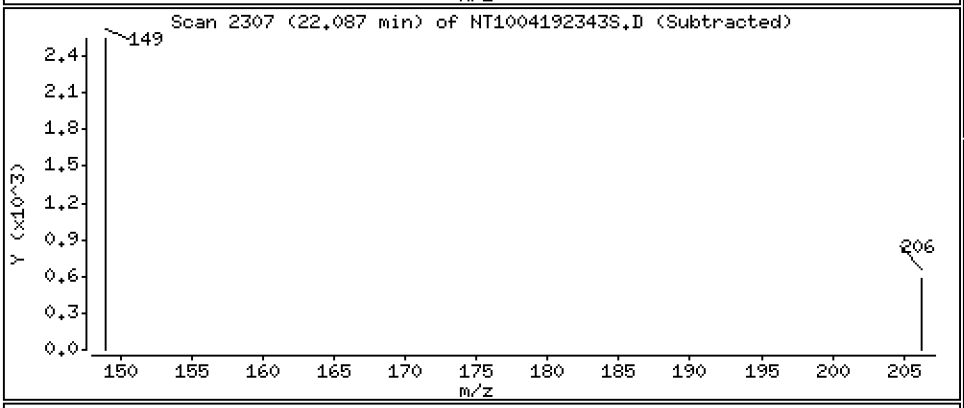
Column diameter: 0.25

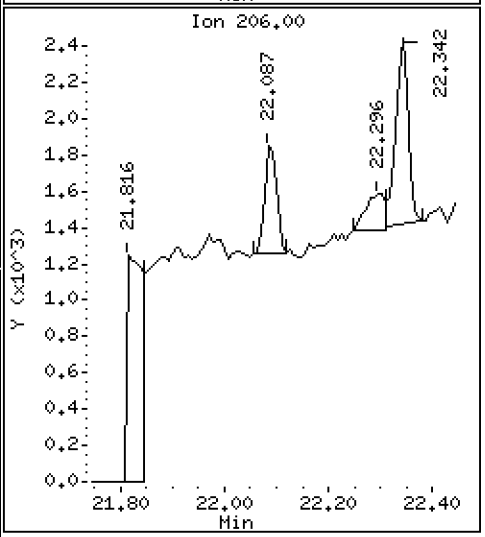
67 Butylbenzylphthalate

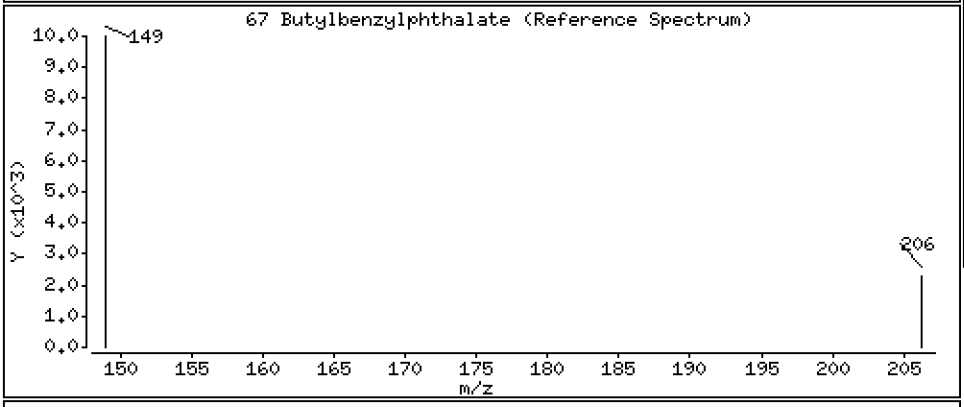
Concentration: 0.08507 ug/L

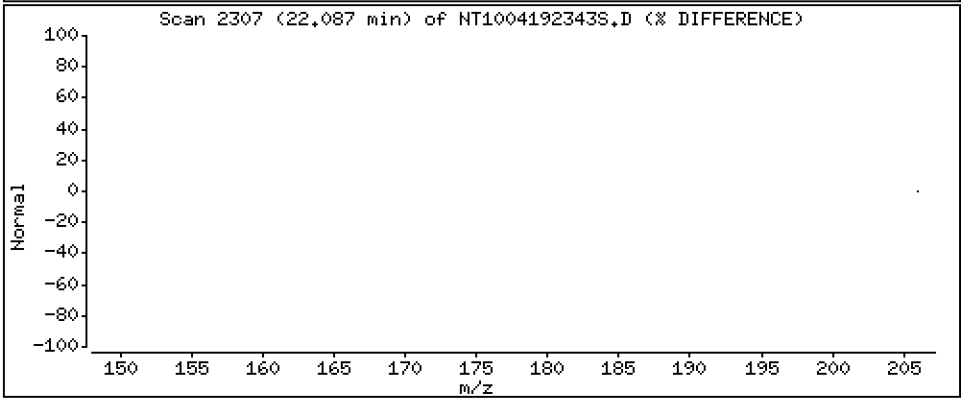












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192343S.D

Date : 20-APR-2023 14:02

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-03

Volume Injected (uL): 1.0

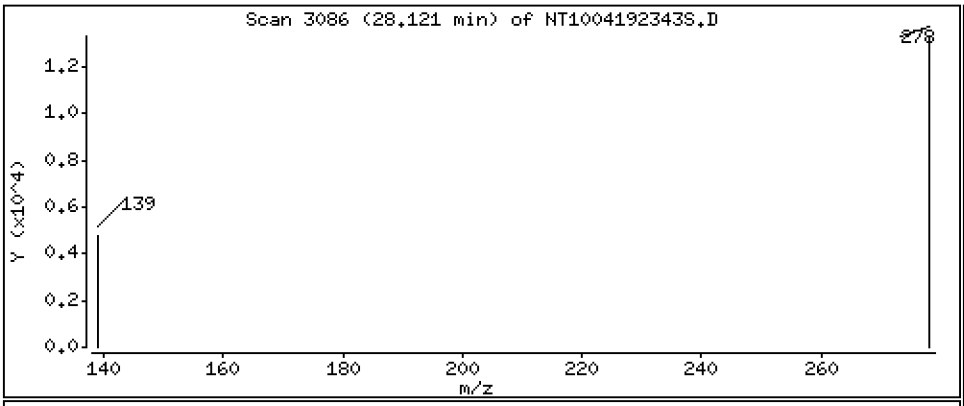
Operator: DSD

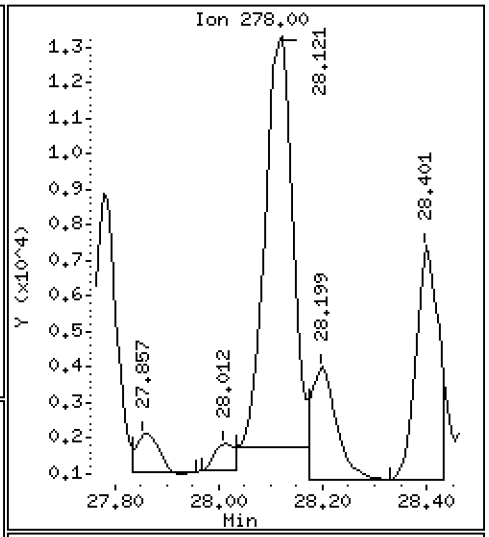
Column phase: ZB-5msi

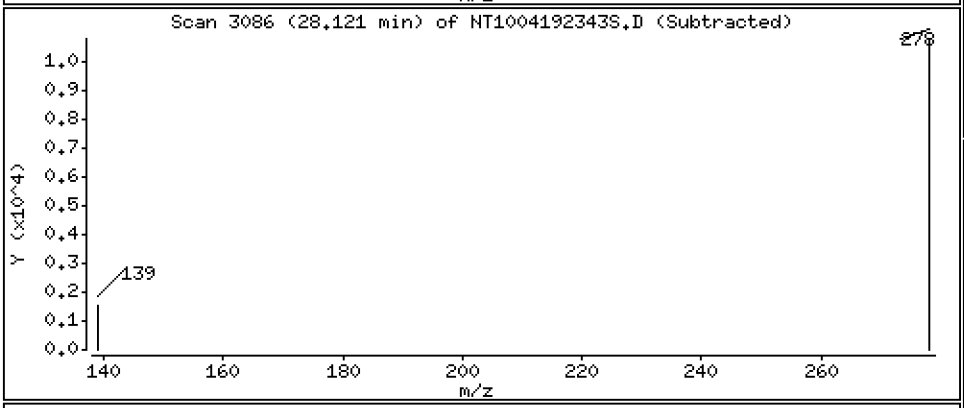
Column diameter: 0.25

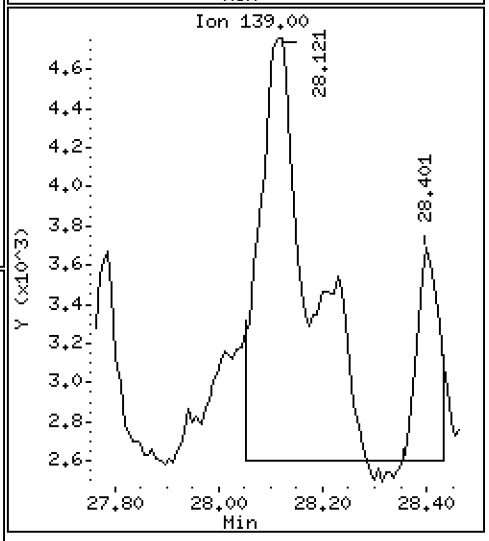
79 Dibenzo(a,h)anthracene

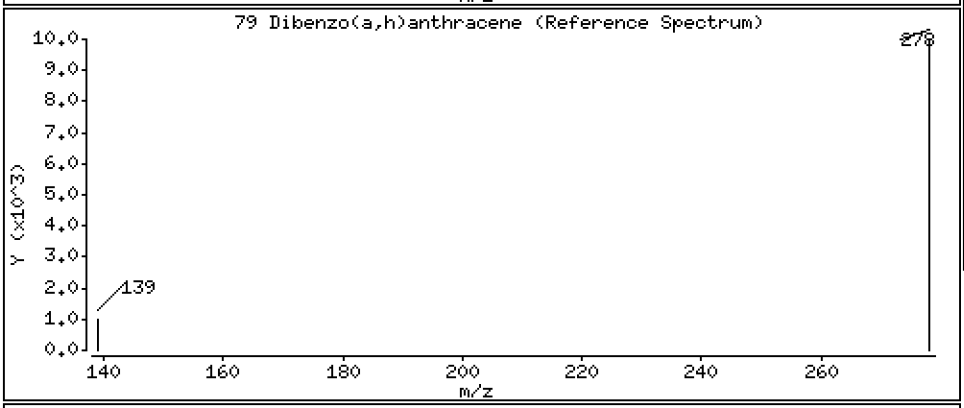
Concentration: 0.1875 ug/L

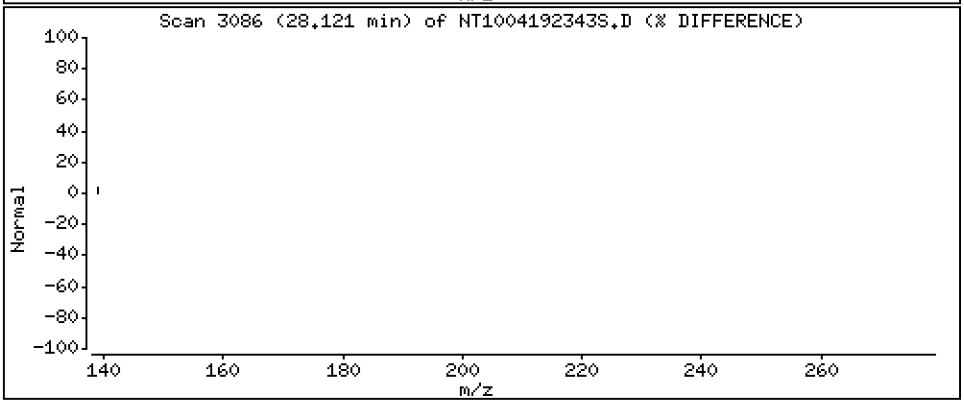












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192343S.D
Lab Smp Id: 23C0752-03
Inj Date : 20-APR-2023 14:02 MS Autotune Date: 16-JAN-2023 17:42
Operator : DSD Inst ID: nt10.i
Smp Info : 23C0752-03
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\SIMABN2.m
Meth Date : 21-Apr-2023 13:41 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.625	6.617	(0.750)	226885	4.69349	4.693(R)
3	Phenol	94	8.247	8.240	(0.934)	7916	0.11936	0.1194
7	1,3-Dichlorobenzene	146	8.765	8.766	(0.993)	209	0.00337	0.003368
* 8	1,4-Dichlorobenzene-d4	152	8.827	8.835	(1.000)	159410	4.00000	
9	1,4-Dichlorobenzene	146	8.859	8.859	(1.004)	564	0.00941	0.009415(MH)
11	Benzyl alcohol	79	9.115	9.115	(1.033)	14265	0.37102	0.3710
12	1,2-Dichlorobenzene	146	9.216	9.216	(1.044)	186	0.00316	0.003157
13	2-Methylphenol	108	9.355	9.348	(1.060)	958	0.02085	0.02085
15	4-Methylphenol	108	9.627	9.627	(1.091)	4000	0.08377	0.08377
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
22	2,4-Dimethylphenol	107	10.664	10.656	(0.943)	815	0.01649	0.01649
24	Benzoic acid	105	10.783	10.809	(0.953)	19293	0.71211	0.7121
26	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
* 27	Naphthalene-d8	136	11.312	11.312	(1.000)	571882	4.00000	
30	Hexachlorobutadiene	225	Compound Not Detected.					
39	Dimethylphthalate	163	14.438	14.446	(0.968)	2100	0.02236	0.02236
* 42	Acenaphthene-d10	162	14.918	14.918	(1.000)	297604	4.00000	
50	Diethylphthalate	149	15.892	15.900	(1.065)	14943	0.15359	0.1536
54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
57	Hexachlorobenzene	284	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
58	Pentachlorophenol	266	17.699	17.699	(0.986)	551	0.02923	0.02923
* 59	Phenanthrene-d10	188	17.946	17.947	(1.000)	568604	4.00000	
$ 66	Terphenyl-d14	244	21.142	21.142	(0.917)	309635	3.28599	3.286(R)
67	Butylbenzylphthalate	149	22.086	22.094	(0.958)	6470	0.08507	0.08507
* 69	Chrysene-d12	240	23.047	23.047	(1.000)	578319	4.00000	
* 77	Perylene-d12	264	25.602	25.594	(1.000)	691315	4.00000	
79	Dibenzo(a,h)anthracene	278	28.120	28.113	(1.098)	42508	0.18747	0.1875
90	N-Nitrosodimethylamine	74	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192343S.D
Lab Smp Id: 23C0752-03
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\SIMABN2.m
Misc Info:

Calibration Date: 20-APR-2023
Calibration Time: 08:57
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	128281	64141	256562	159410	24.27
27 Naphthalene-d8	458707	229354	917414	571882	24.67
42 Acenaphthene-d10	243296	121648	486592	297604	22.32
59 Phenanthrene-d10	433853	216927	867706	568604	31.06
69 Chrysene-d12	435413	217707	870826	578319	32.82
77 Perylene-d12	490854	245427	981708	691315	40.84

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.84	8.34	9.34	8.83	-0.09
27 Naphthalene-d8	11.31	10.81	11.81	11.31	-0.00
42 Acenaphthene-d10	14.92	14.42	15.42	14.92	-0.00
59 Phenanthrene-d10	17.95	17.45	18.45	17.95	-0.00
69 Chrysene-d12	23.05	22.55	23.55	23.05	-0.00
77 Perylene-d12	25.59	25.09	26.09	25.60	0.03

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

REVIEW SUMMARY FOR FILE - NT1004192343S.D

Lab ID: 23C0752-03
nt10.i, 20230419B.b\20230419B.b\SIMABN2.m,   20-APR-2023 14:02

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230419B.b/NT1004192335S.D

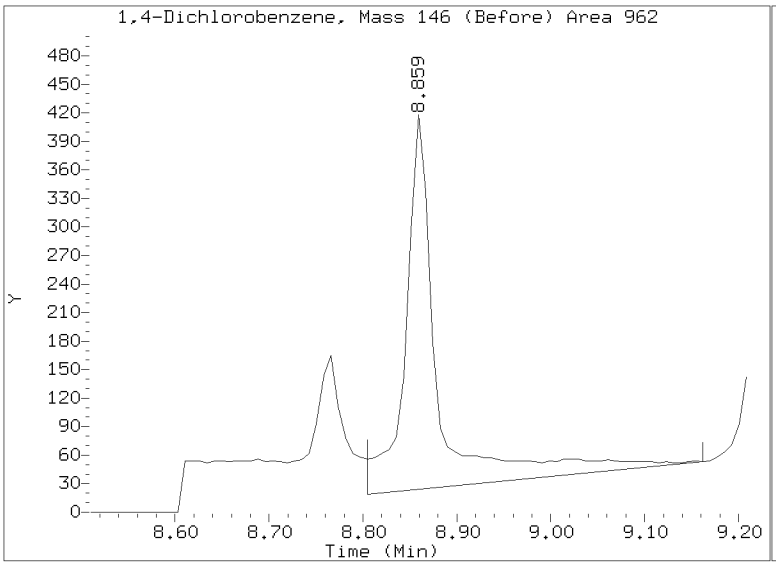
On Column LOD for nt10.i, 20230419B.b\SIMABN2.m, PSDDA.sub = 0.0000

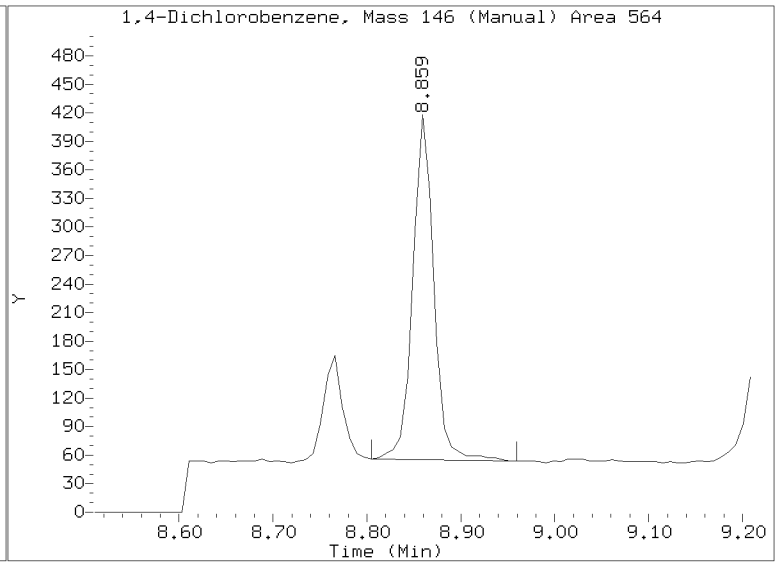
Exception: 1,2,4-Trichlorobenzene 0.0010

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230419B.b/20230419B.b/NT1004192343S.D
Injection Date: 20-APR-2023 14:02
Lab ID:23C0752-03 Client ID:
Report Date: 04/21/2023 14:04





APPROVED

By Deenay Dunmore at 2:36 pm, Apr 21, 2023

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1810

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E-SIM

SIM SVOC Organics (Dual scan list)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-04 A	SDG:	23C0752
Sampled:	03/30/23 10:36	Prepared:	04/03/23 11:31	File ID:	NT1004192344S.D
% Solids:	52.71	Preparation:	EPA 3546 (Microwave)	Analyzed:	04/20/23 14:40
Batch:	BLD0008	Sequence:	SLD0302	Initial/Final:	18.98 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00049
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
106-46-7	1,4-Dichlorobenzene	1	1.0	J	0.6	5.0
95-50-1	1,2-Dichlorobenzene	1	5.0	U	0.7	5.0
100-51-6	Benzyl Alcohol	1	15.9	J	2.5	20.0
65-85-0	Benzoic acid	1	32.8	J	13.4	100
105-67-9	2,4-Dimethylphenol	1	20.0	U	2.2	20.0
120-82-1	1,2,4-Trichlorobenzene	1	5.0	U	2.7	5.0
86-30-6	N-Nitrosodiphenylamine	1	5.0	U	1.3	5.0
87-86-5	Pentachlorophenol	1	3.2	J	2.1	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	749.67	428	57.1	27 - 120	
p-Terphenyl-d14	499.78	322	64.4	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT10041923445.D

Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

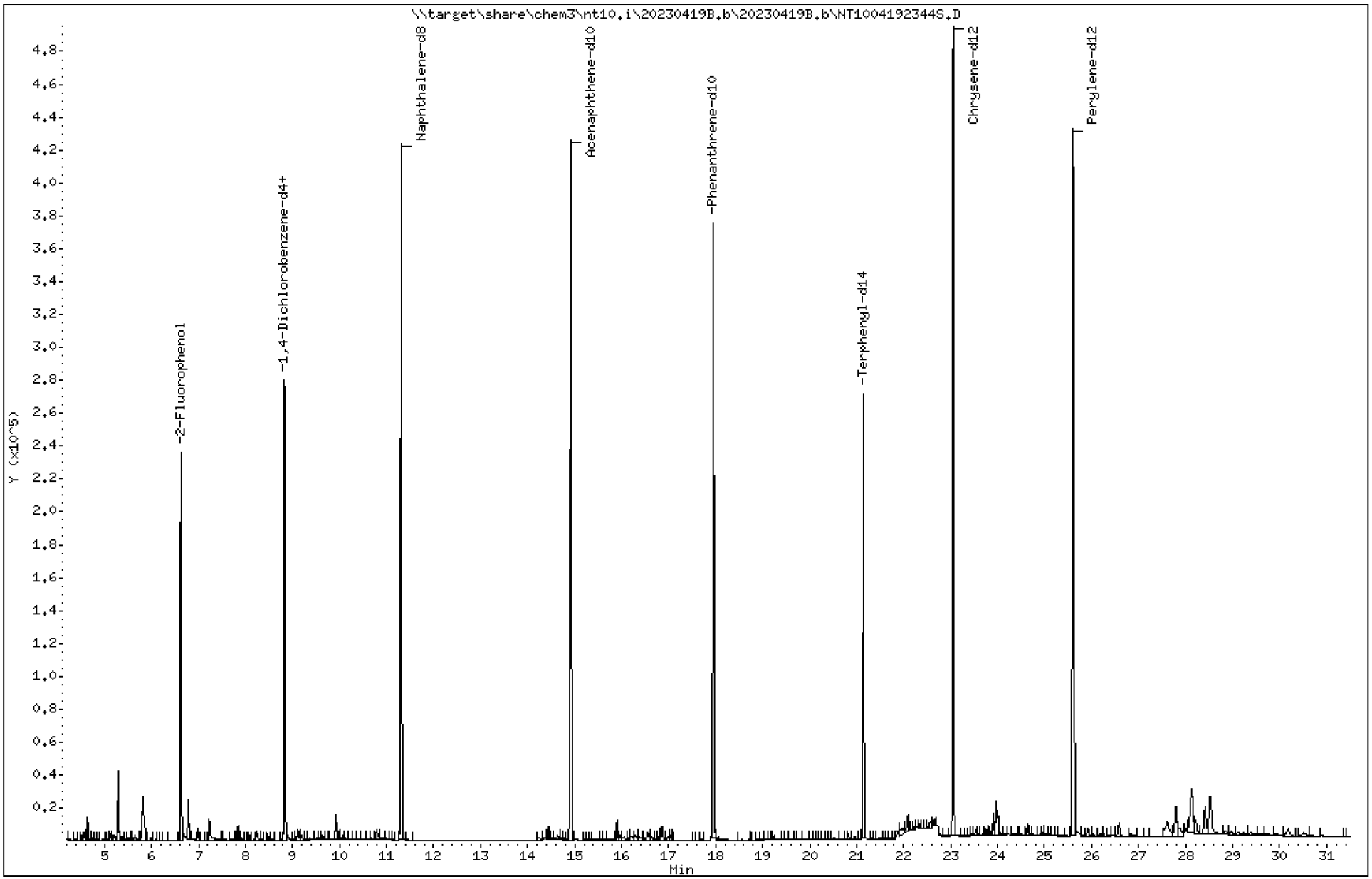
Sample Info: 23C0752-04

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

Volume Injected (uL): 1.0

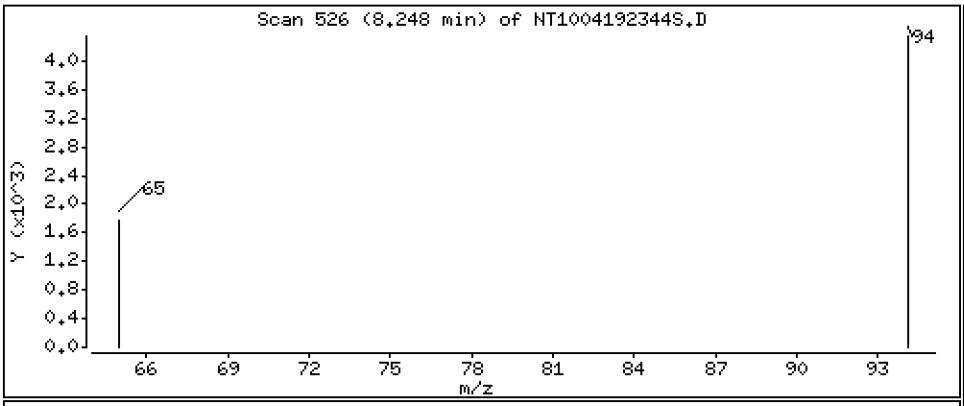
Operator: DSD

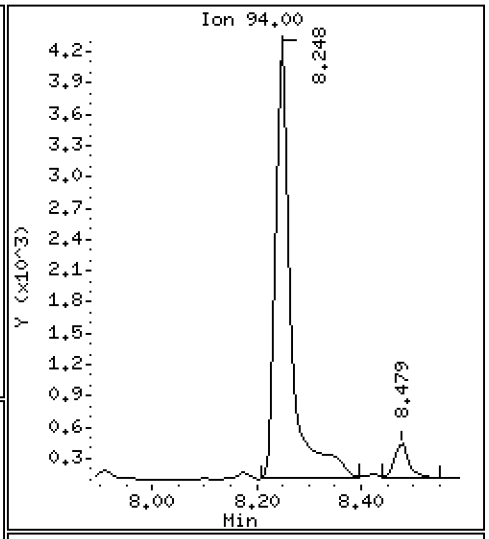
Column phase: ZB-5msi

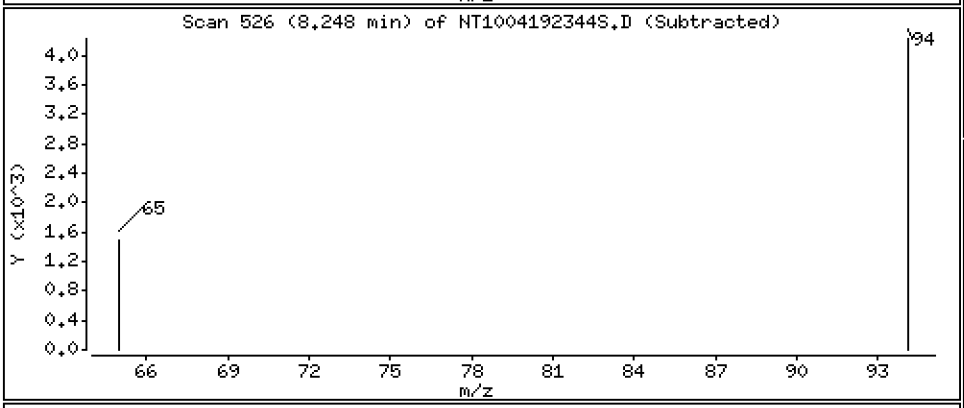
Column diameter: 0.25

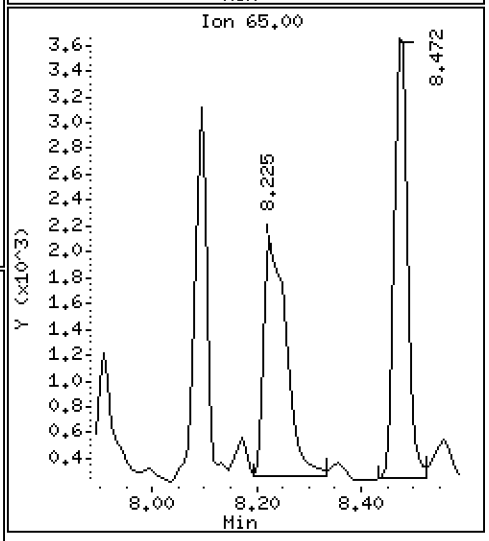
3 Phenol

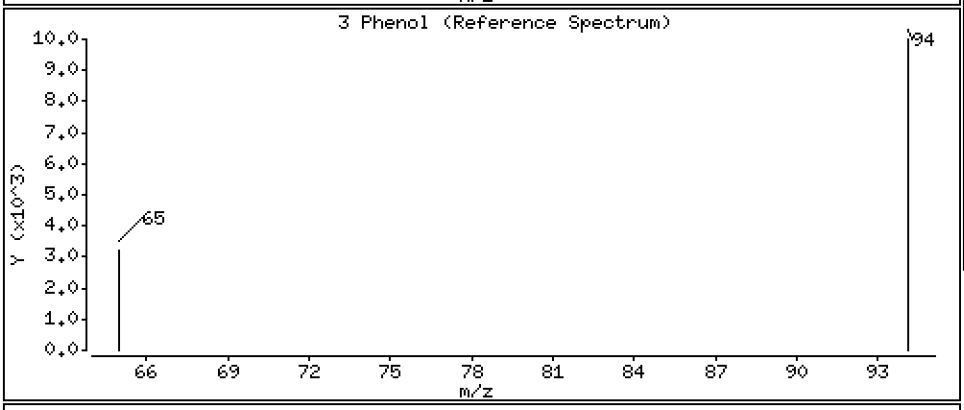
Concentration: 0.1150 ug/L

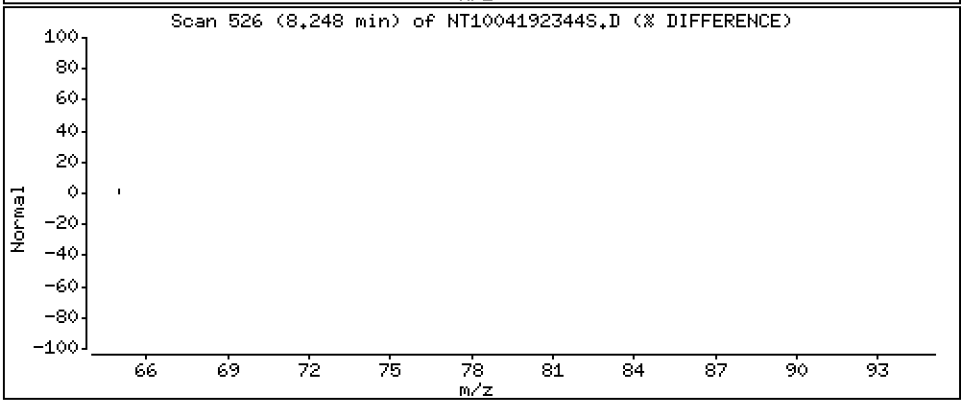












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192344S.D

Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

Volume Injected (uL): 1.0

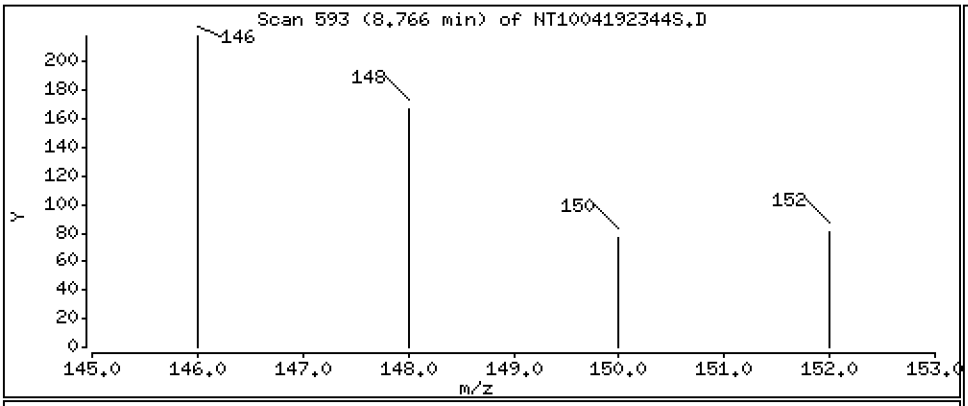
Operator: DSD

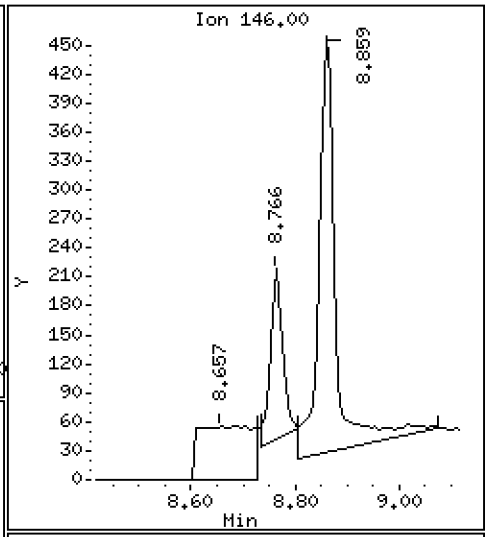
Column phase: ZB-5msi

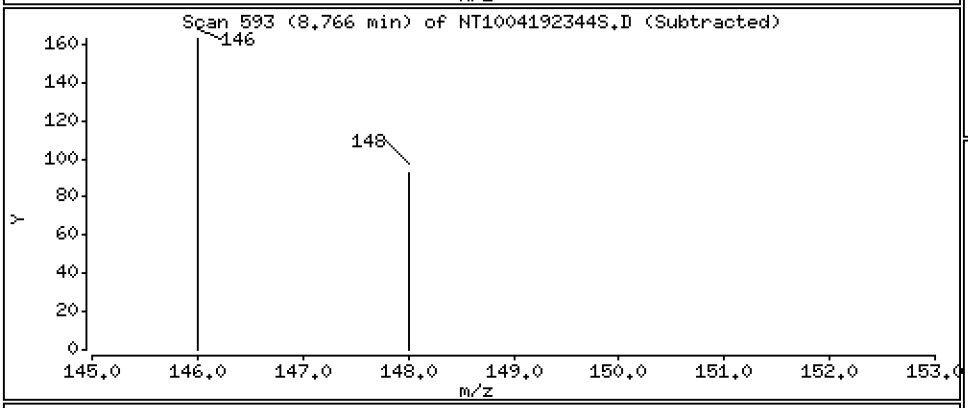
Column diameter: 0.25

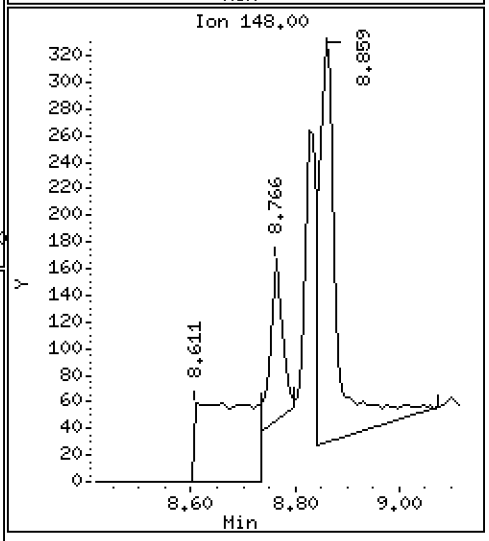
7 1,3-Dichlorobenzene

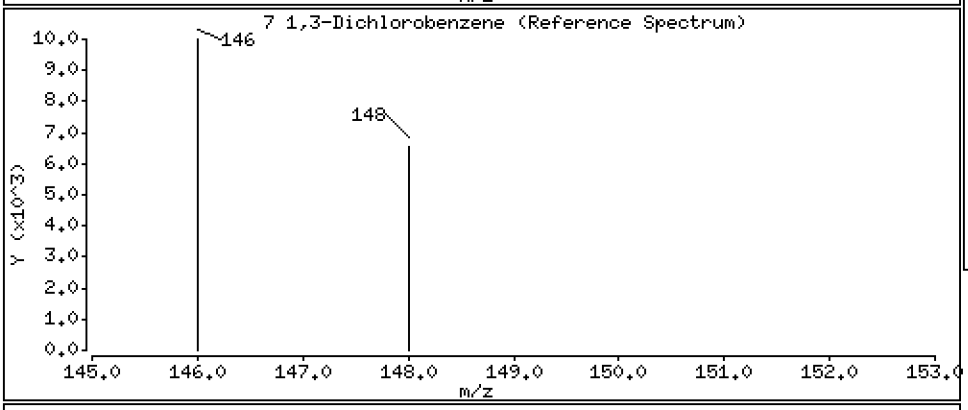
Concentration: 0.004097 ug/L

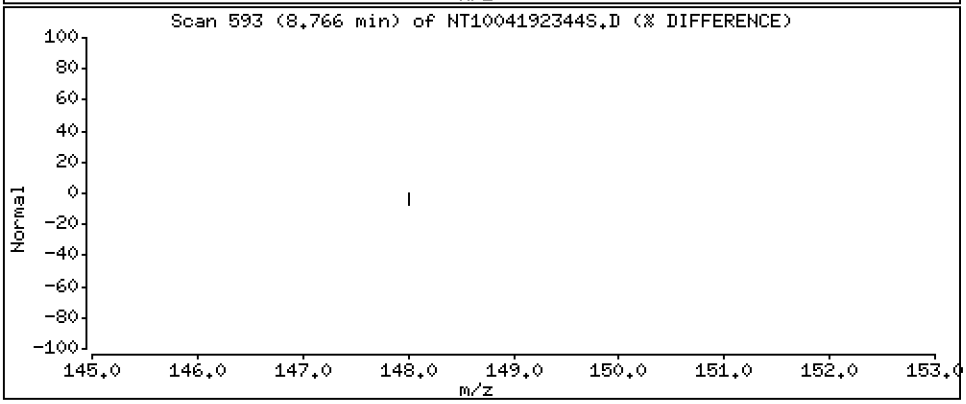












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192344S.D

Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

Volume Injected (uL): 1.0

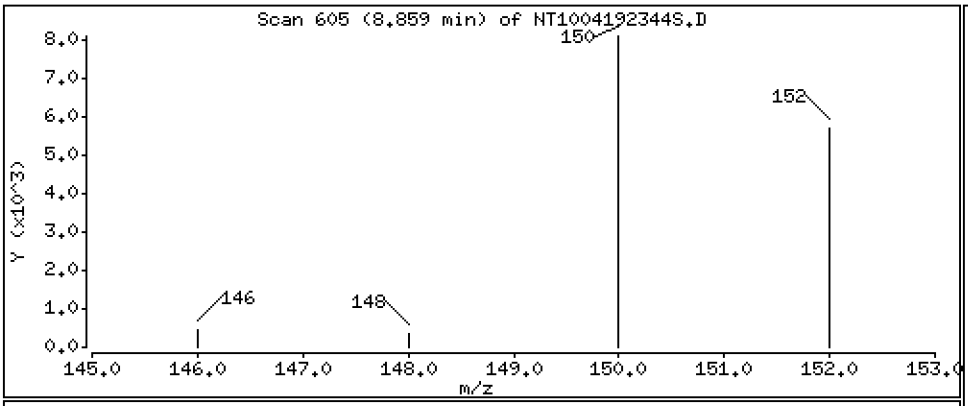
Operator: DSD

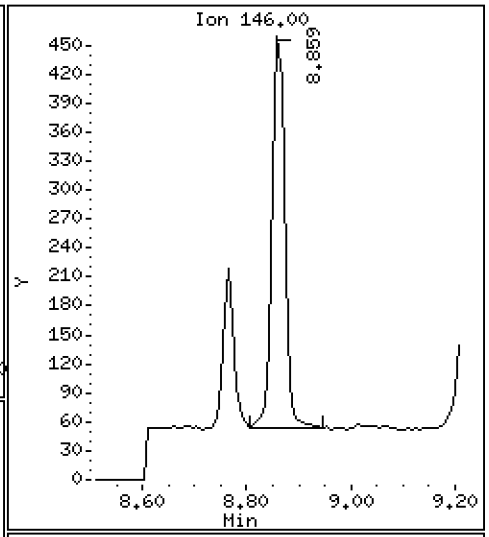
Column phase: ZB-5msi

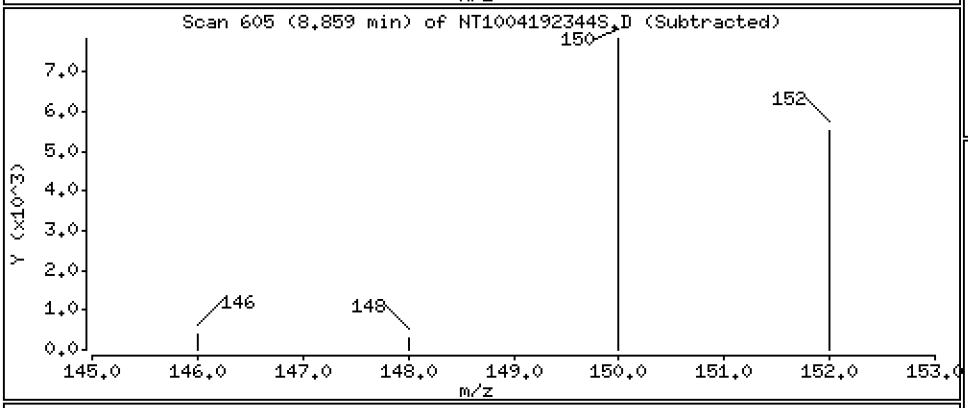
Column diameter: 0.25

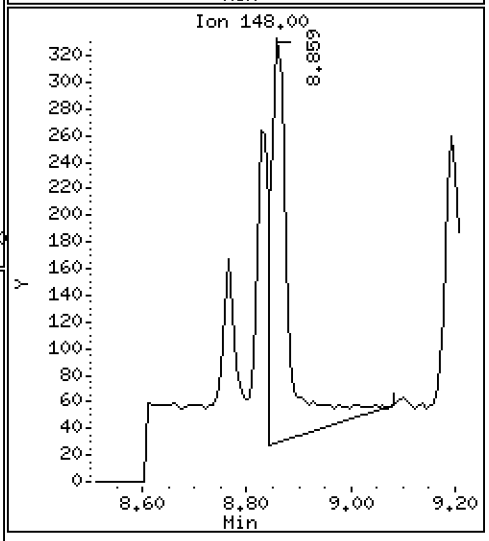
9 1,4-Dichlorobenzene

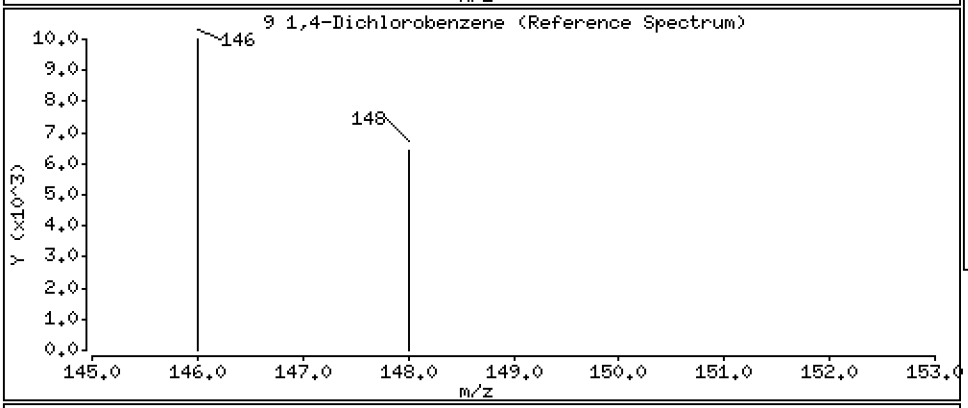
Concentration: 0.009784 ug/L

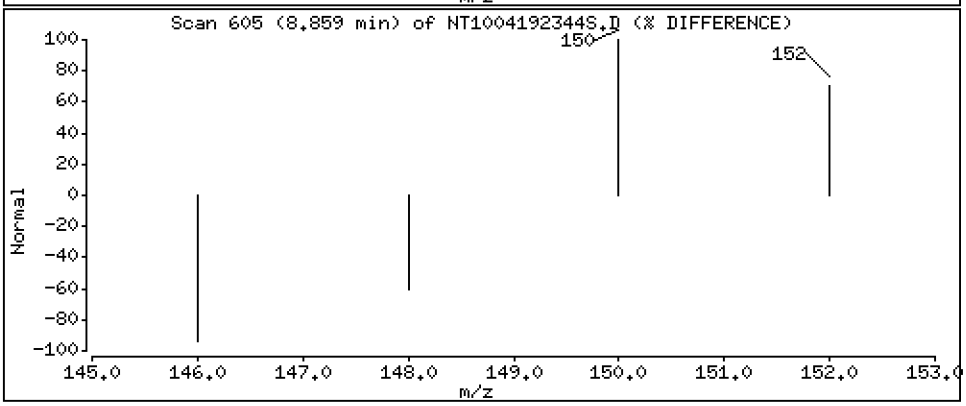












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192344S.D

Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

Volume Injected (uL): 1.0

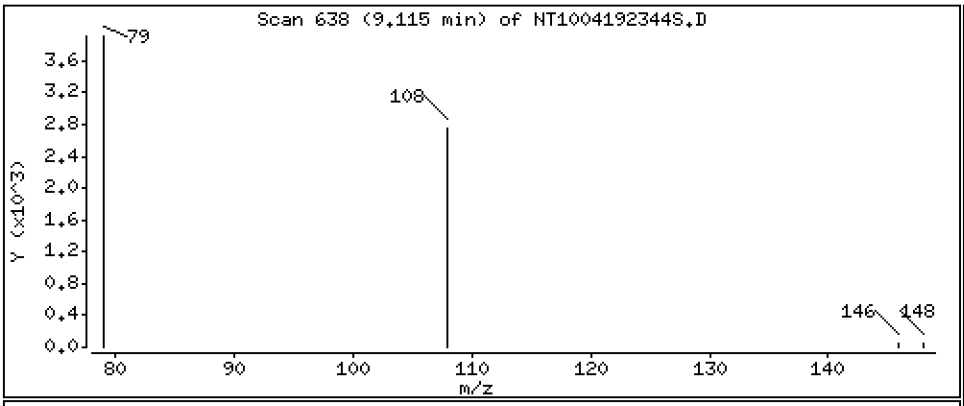
Operator: DSD

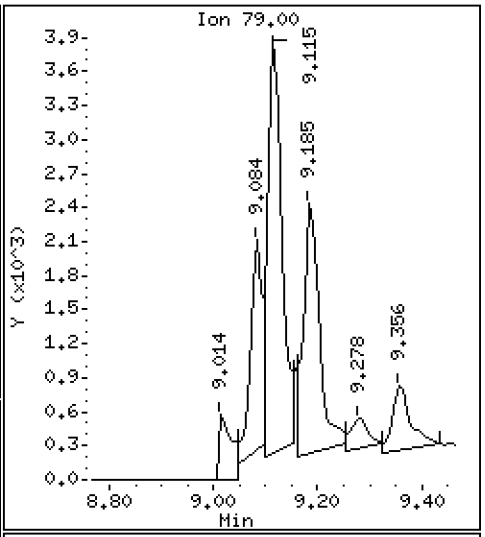
Column phase: ZB-5msi

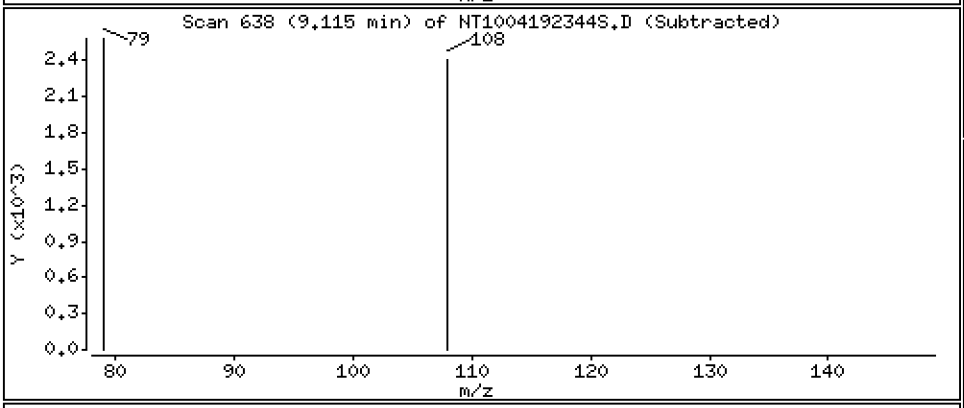
Column diameter: 0.25

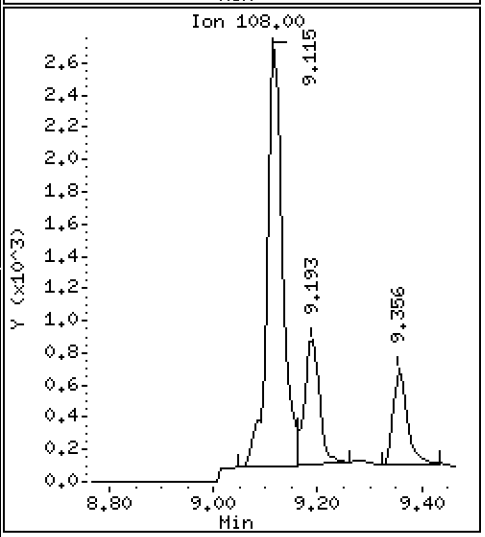
11 Benzyl alcohol

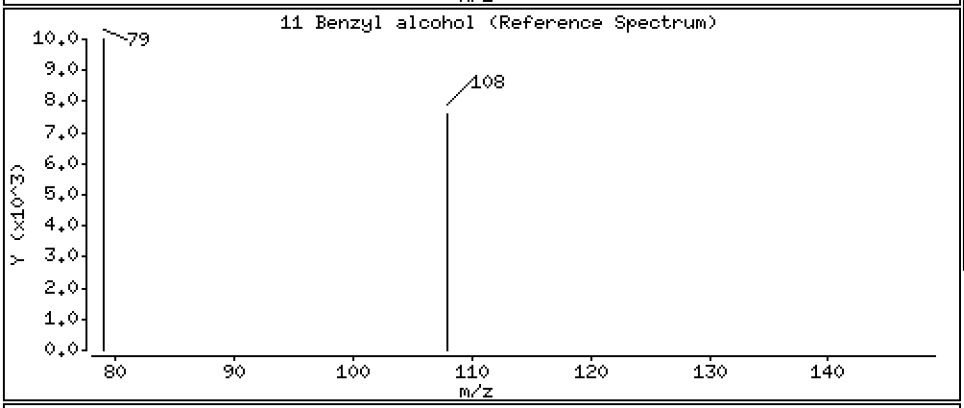
Concentration: 0.1589 ug/L

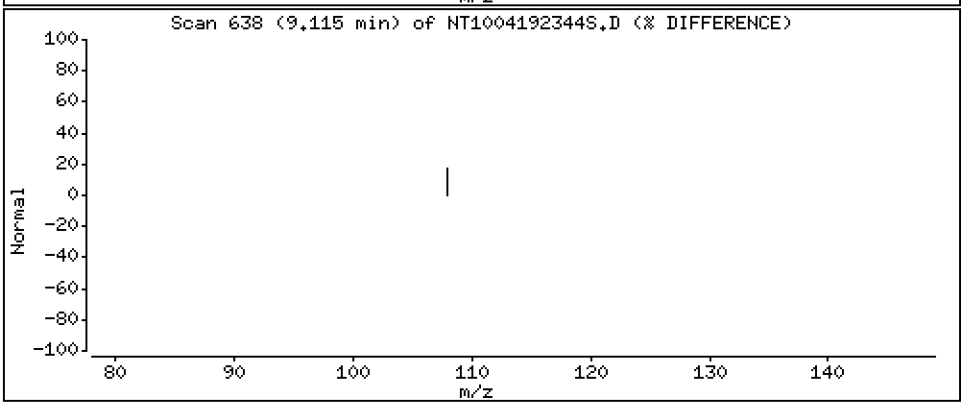












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192344S.D

Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

Volume Injected (uL): 1.0

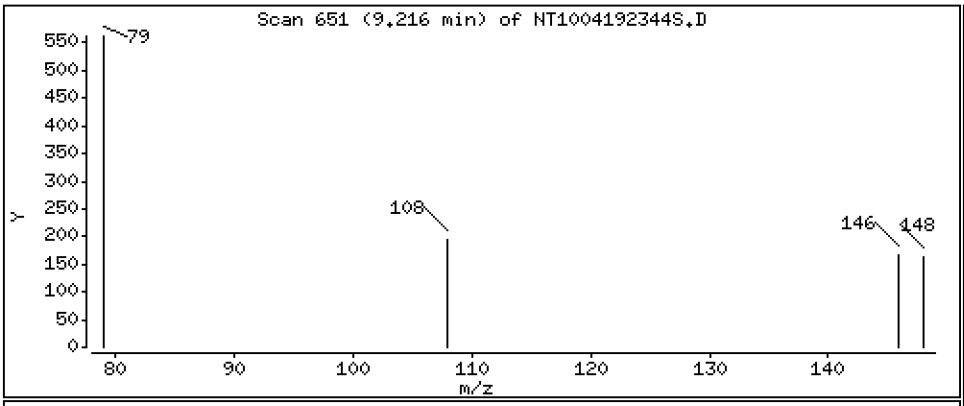
Operator: DSD

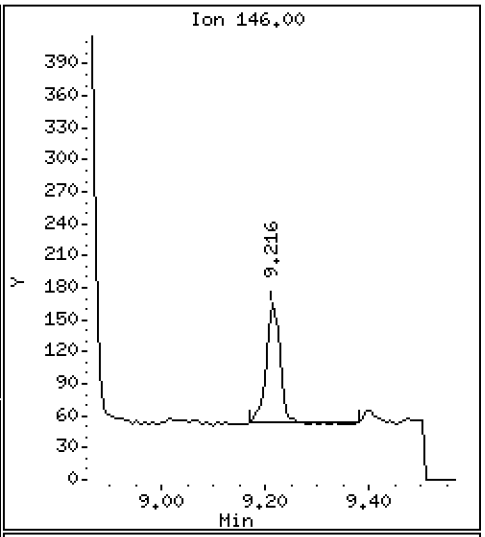
Column phase: ZB-5msi

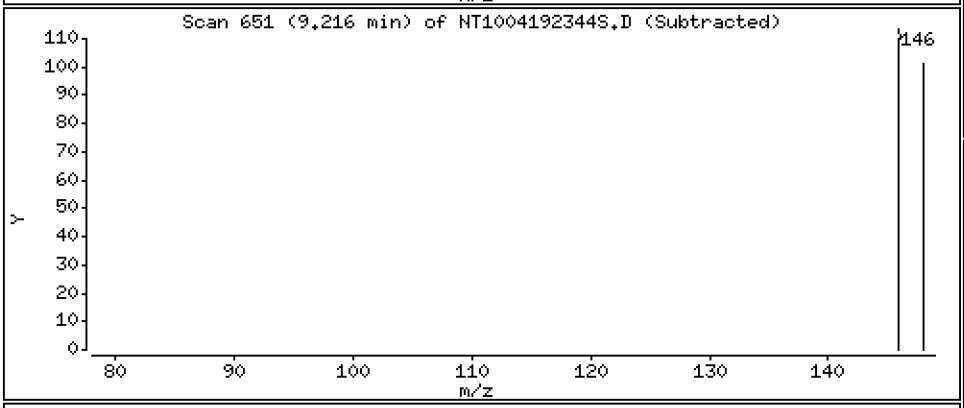
Column diameter: 0.25

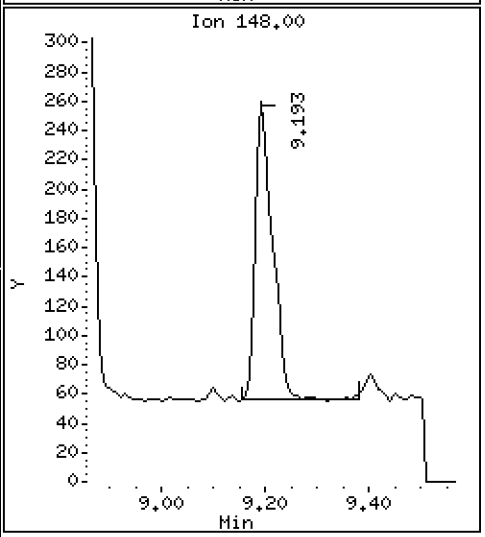
12 1,2-Dichlorobenzene

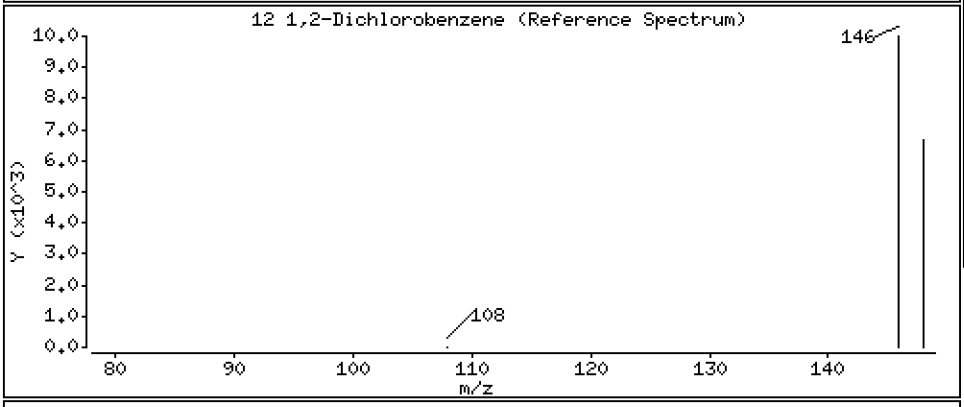
Concentration: 0.002786 ug/L

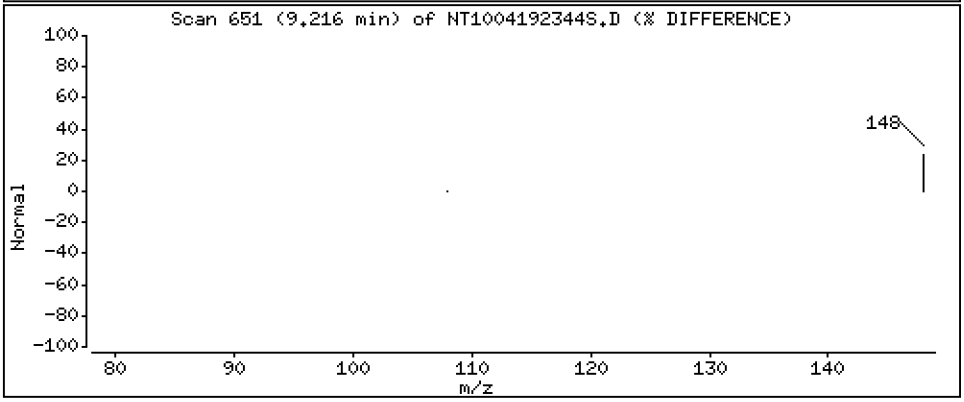












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192344S.D

Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

Volume Injected (uL): 1.0

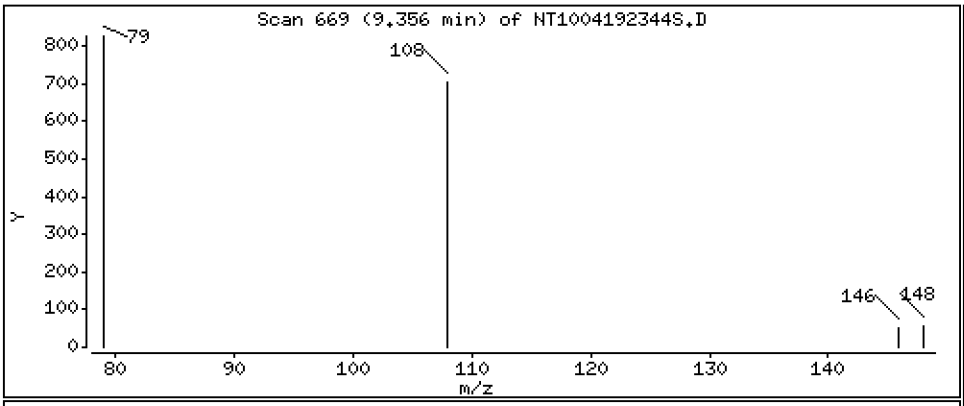
Operator: DSD

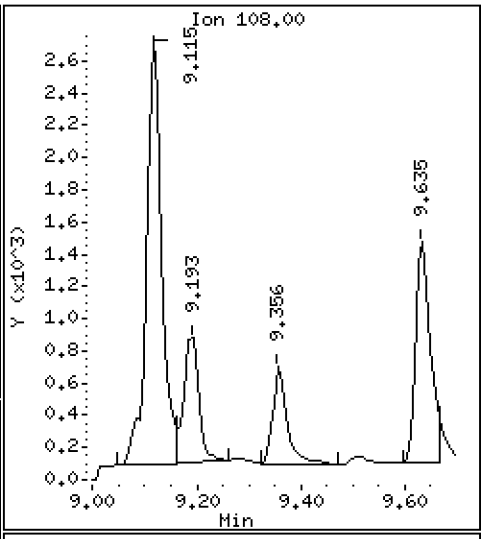
Column phase: ZB-5msi

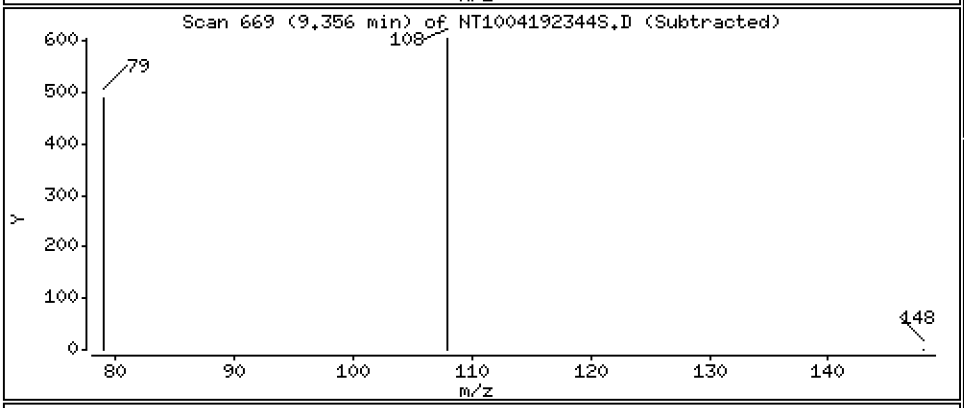
Column diameter: 0.25

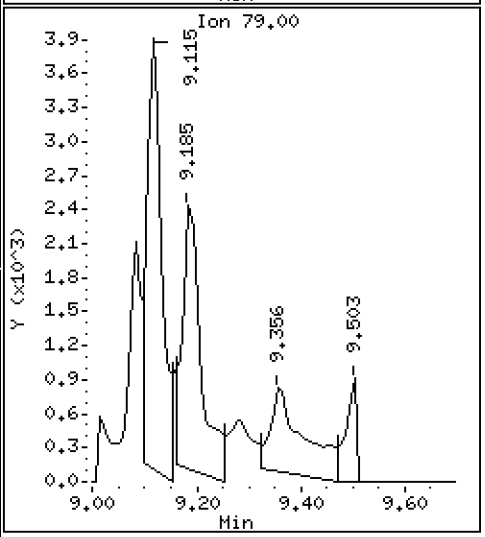
13 2-Methylphenol

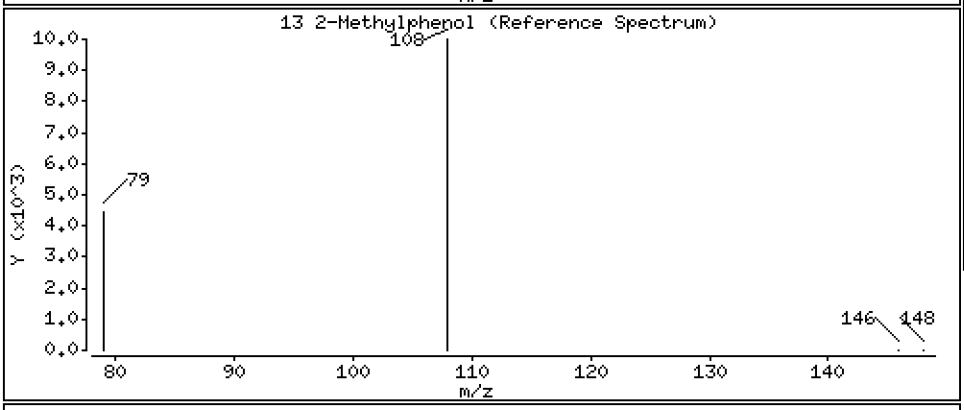
Concentration: 0.02339 ug/L

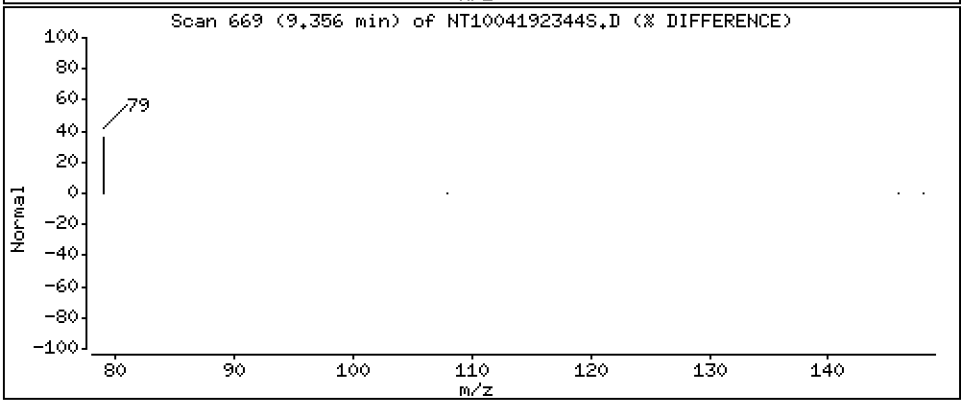












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192344S.D

Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

Volume Injected (uL): 1.0

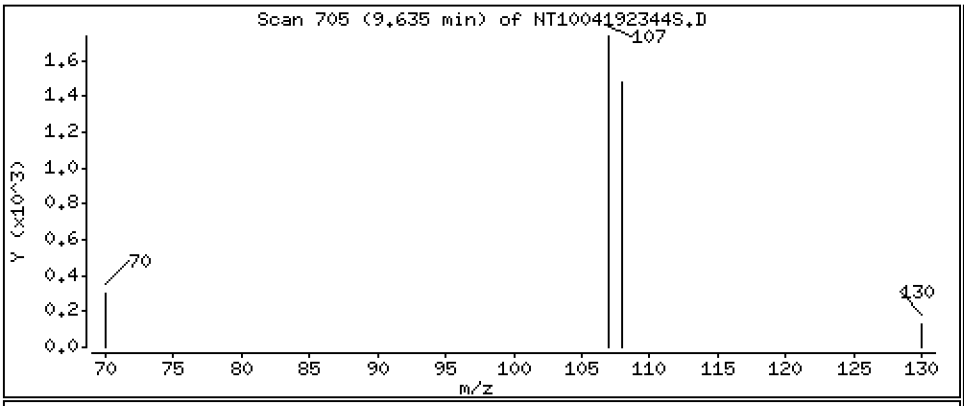
Operator: DSD

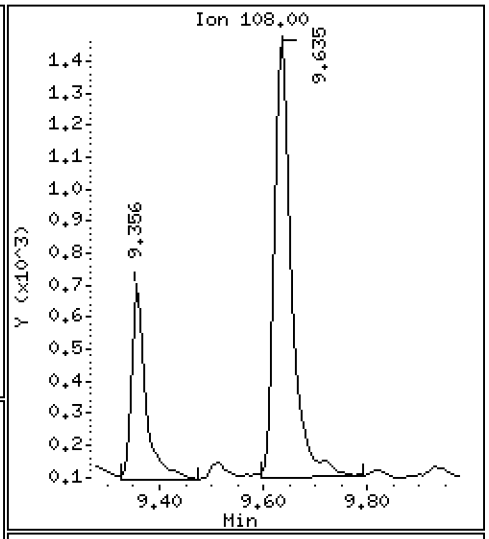
Column phase: ZB-5msi

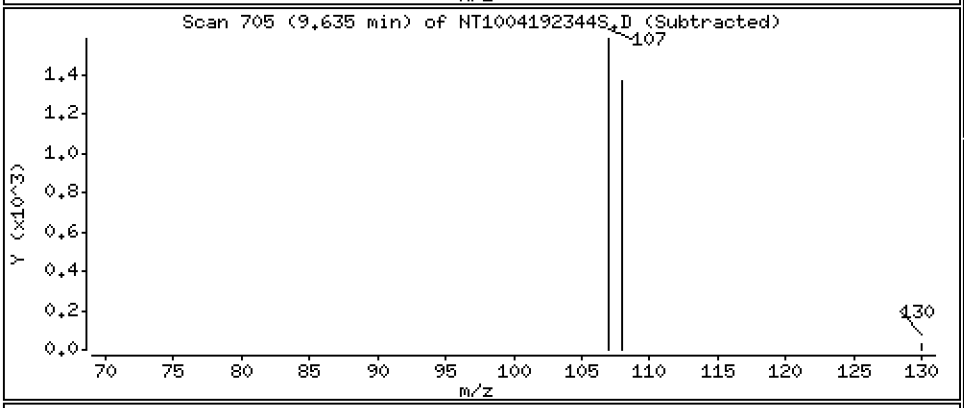
Column diameter: 0.25

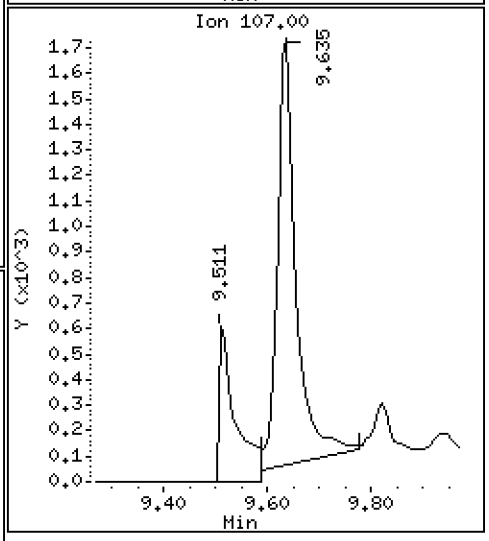
15 4-Methylphenol

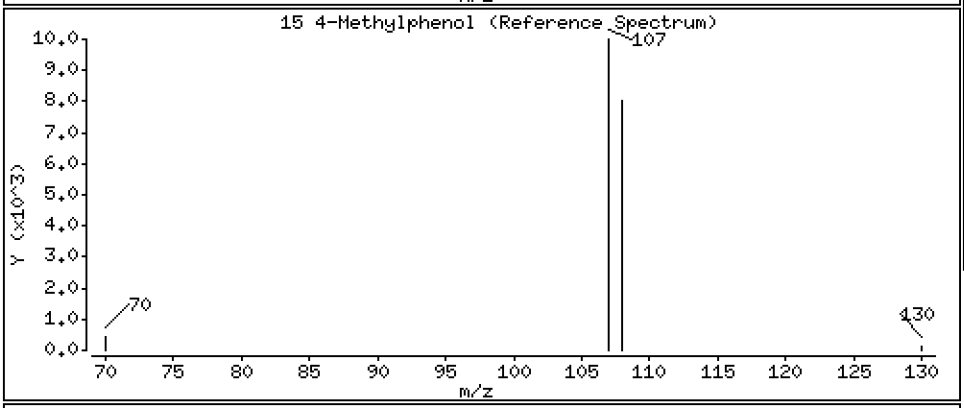
Concentration: 0.05816 ug/L

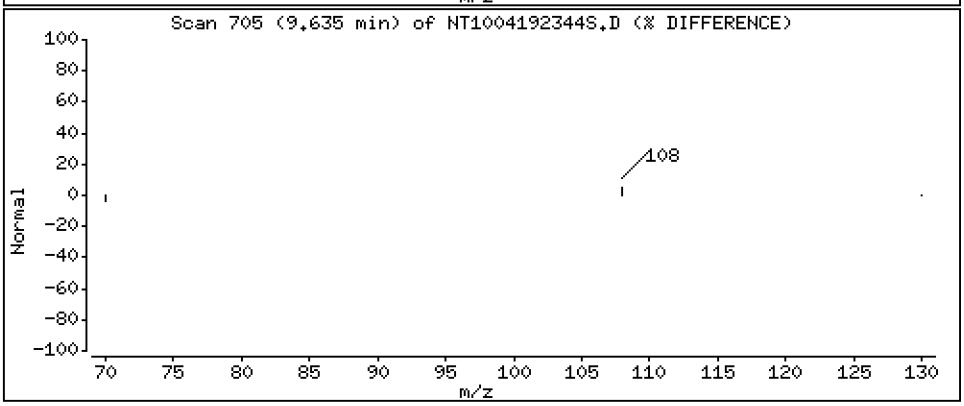












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

Volume Injected (uL): 1.0

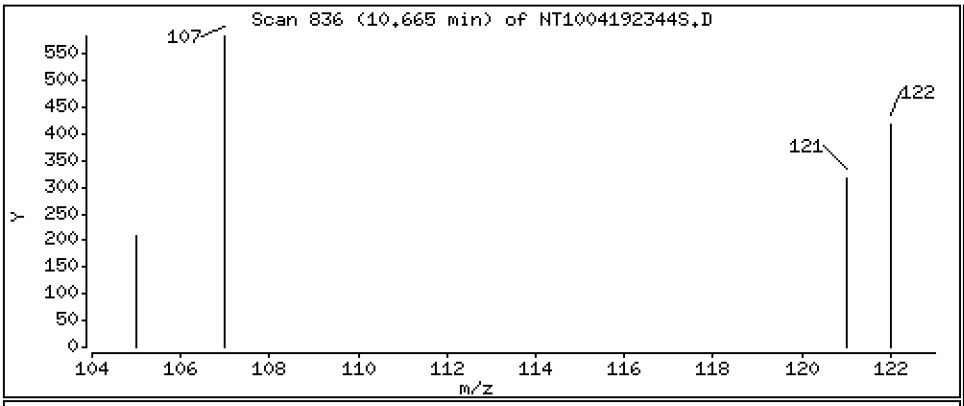
Operator: DSD

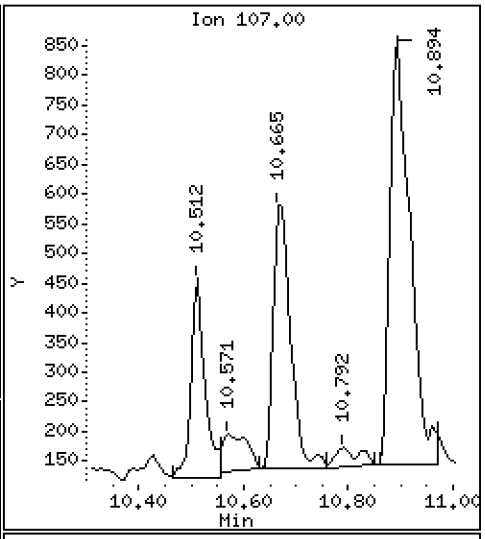
Column phase: ZB-5msi

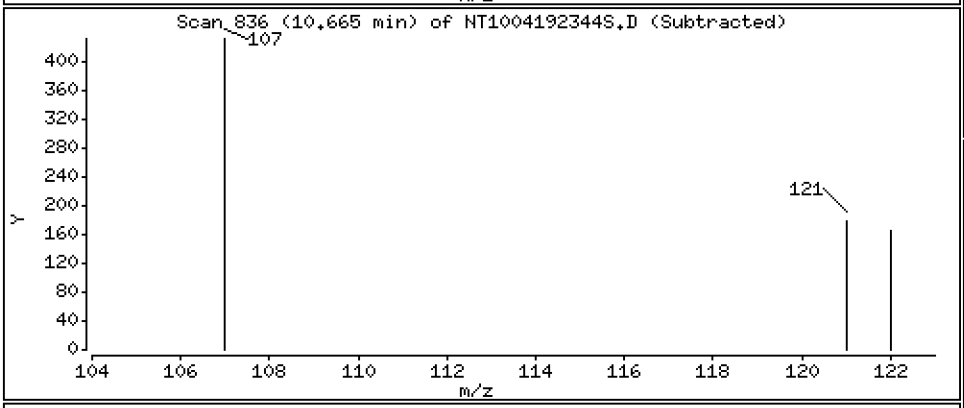
Column diameter: 0.25

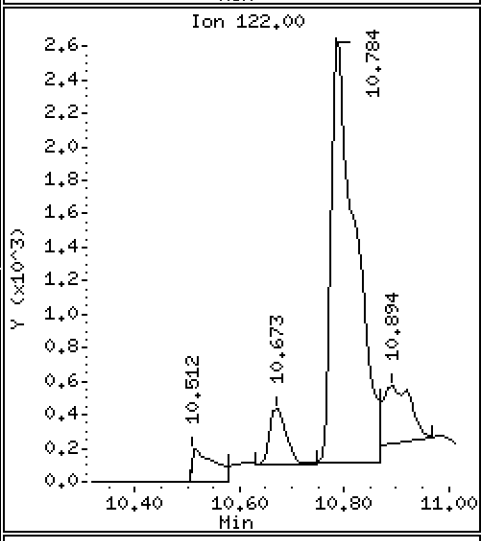
22 2,4-Dimethylphenol

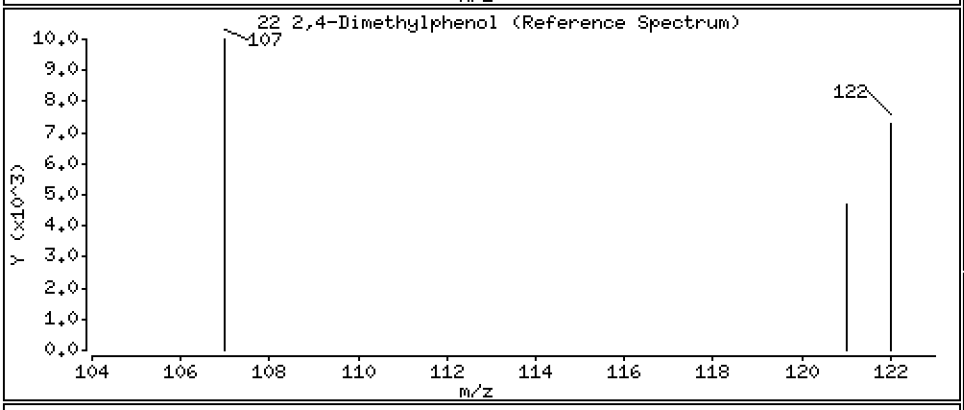
Concentration: 0.01881 ug/L

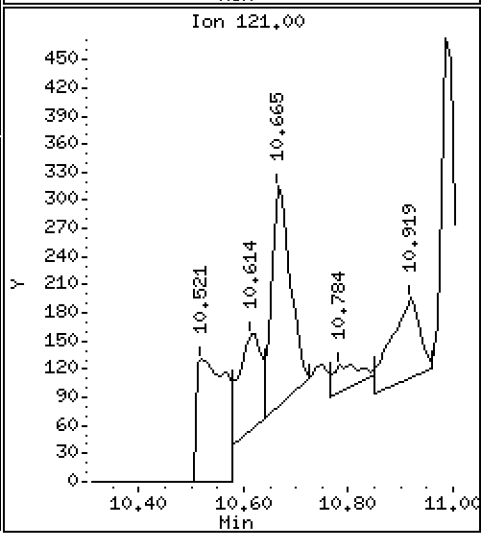


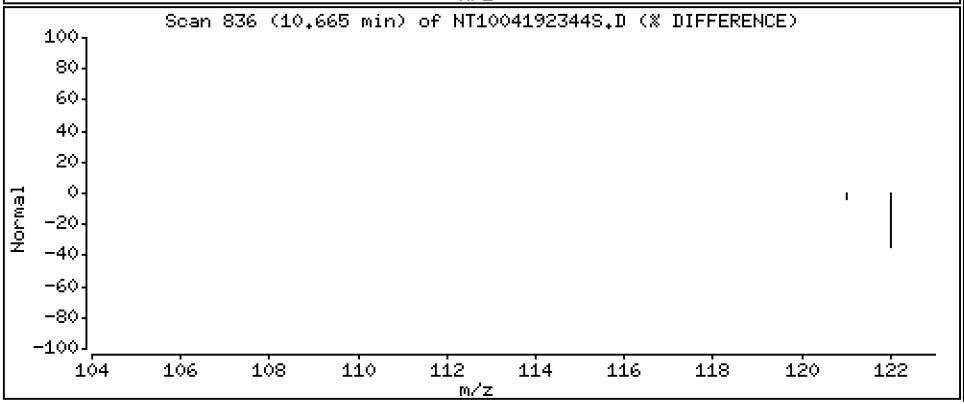












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

Volume Injected (uL): 1.0

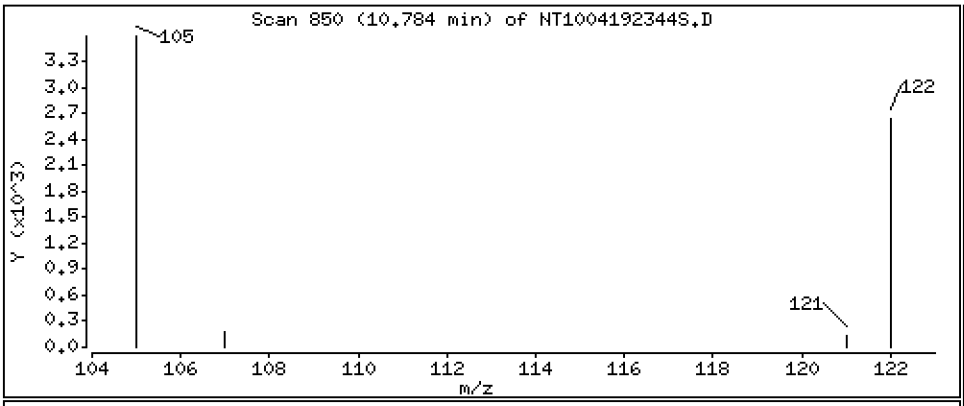
Operator: DSD

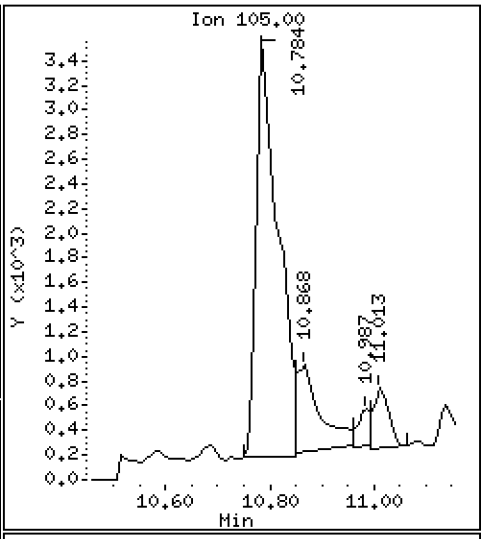
Column phase: ZB-5msi

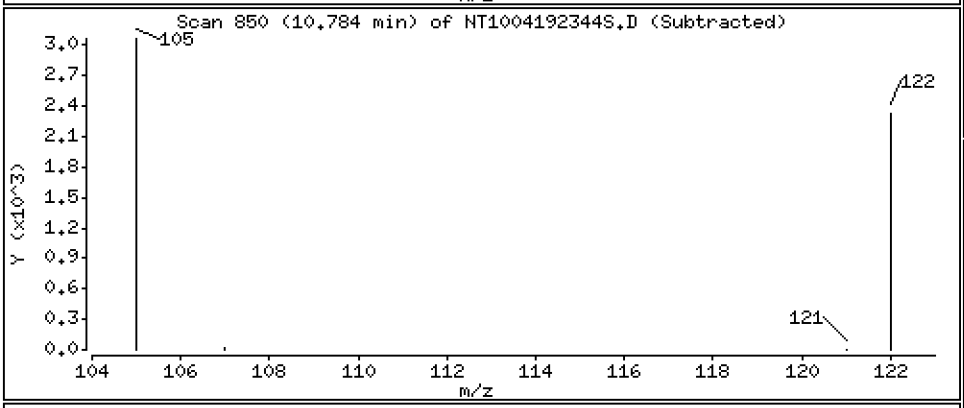
Column diameter: 0.25

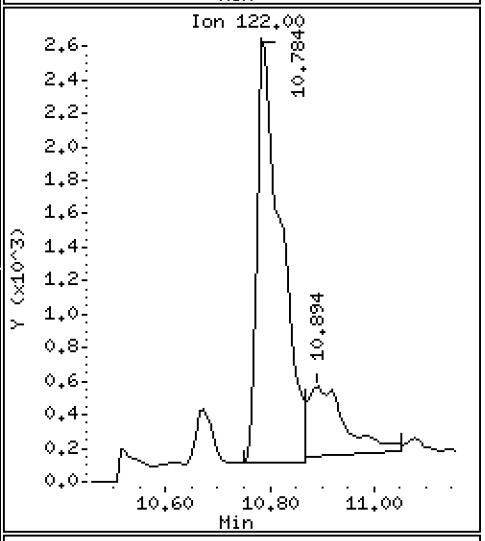
24 Benzoic acid

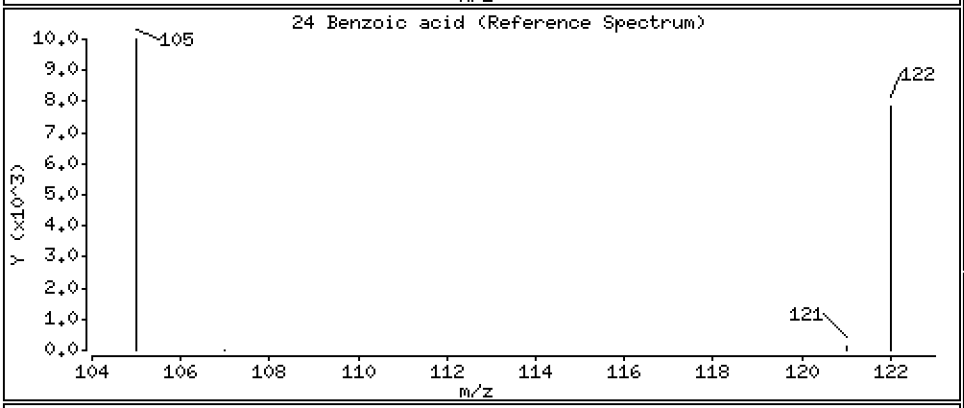
Concentration: 0.3277 ug/L

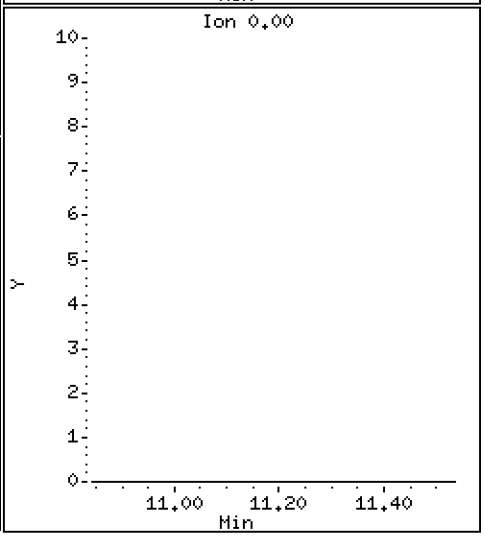


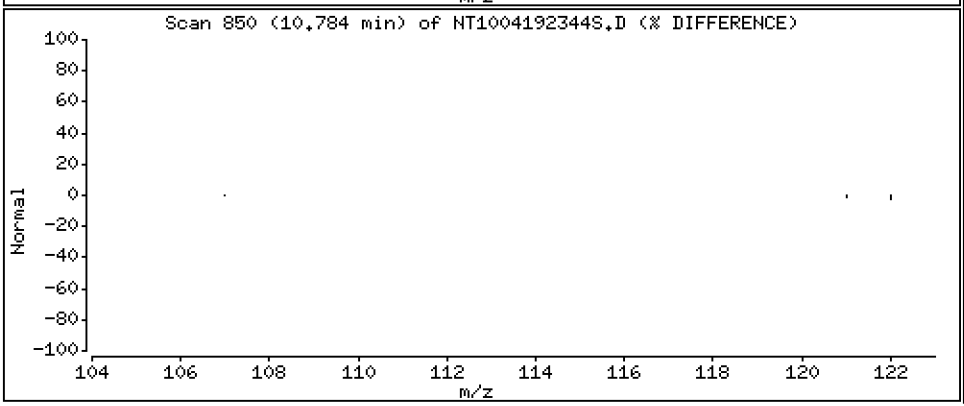












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Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

Volume Injected (uL): 1.0

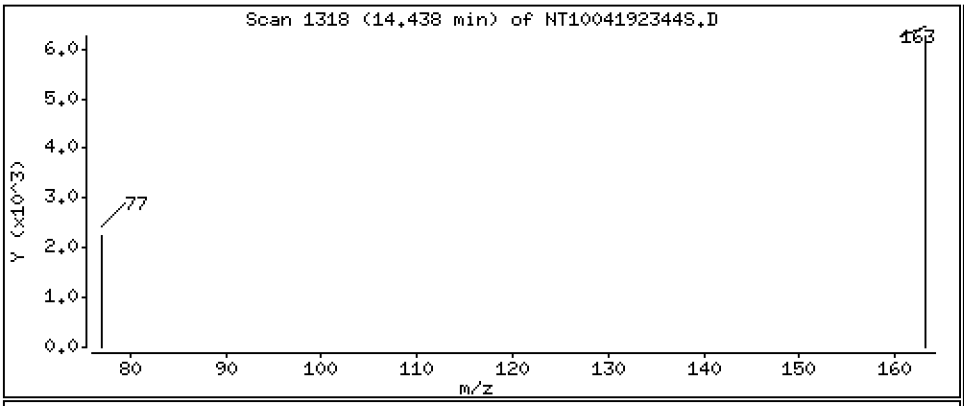
Operator: DSD

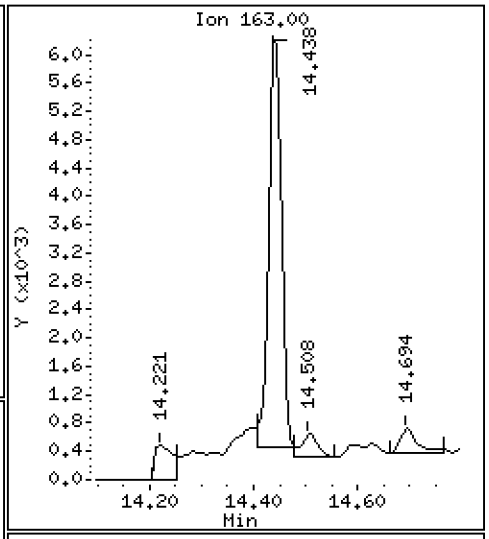
Column phase: ZB-5msi

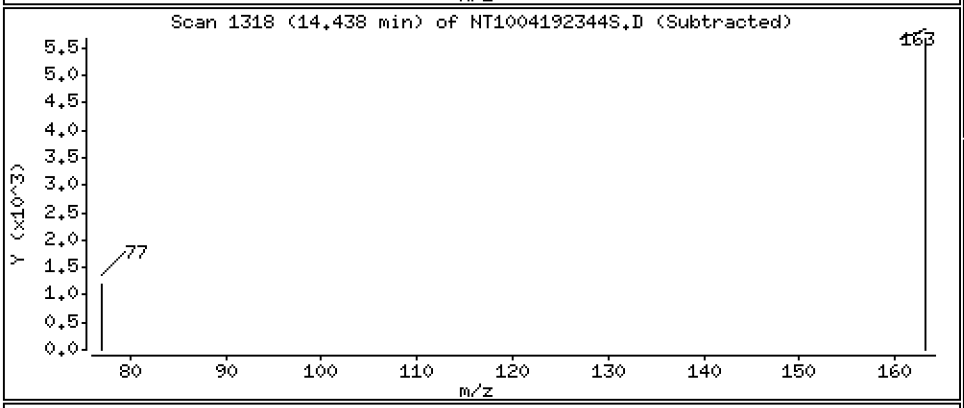
Column diameter: 0.25

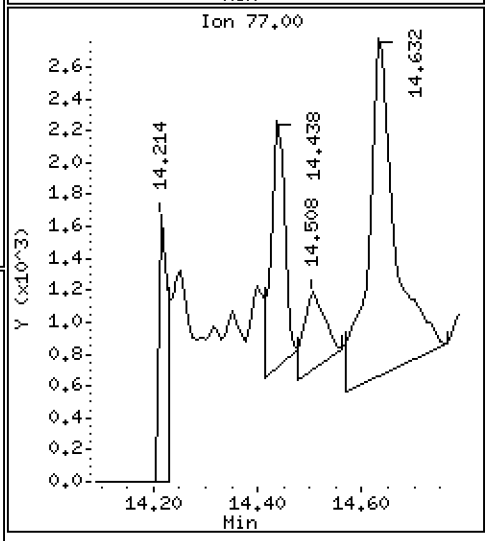
39 Dimethylphthalate

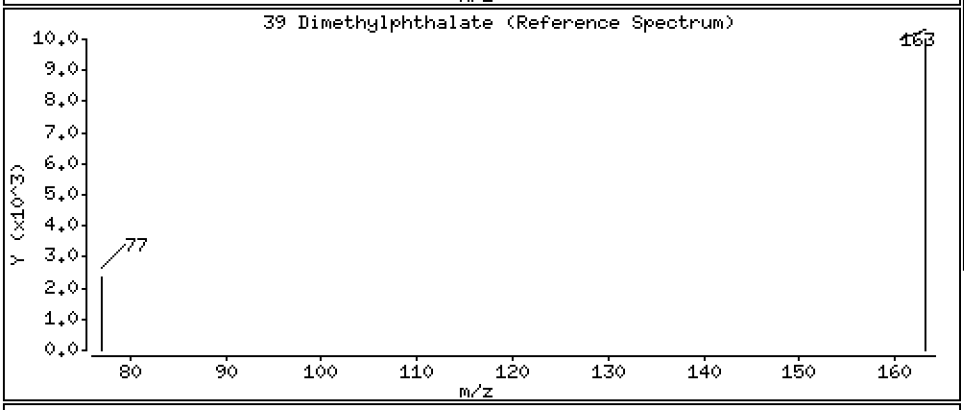
Concentration: 0.08809 ug/L

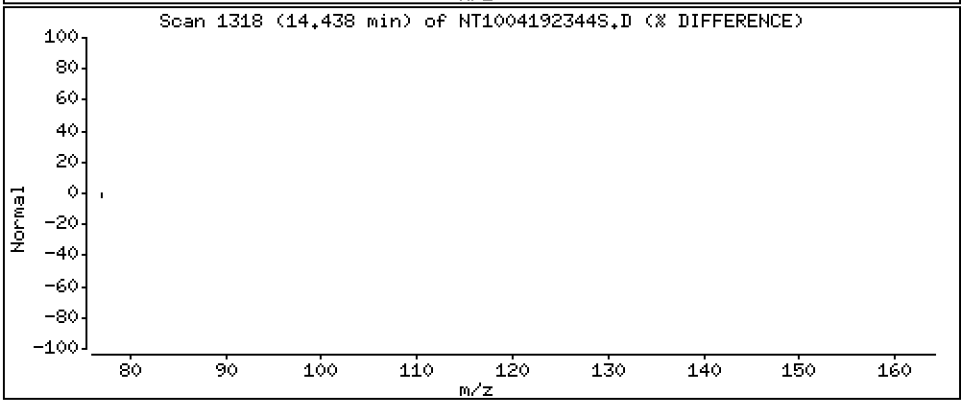












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192344S.D

Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

Volume Injected (uL): 1.0

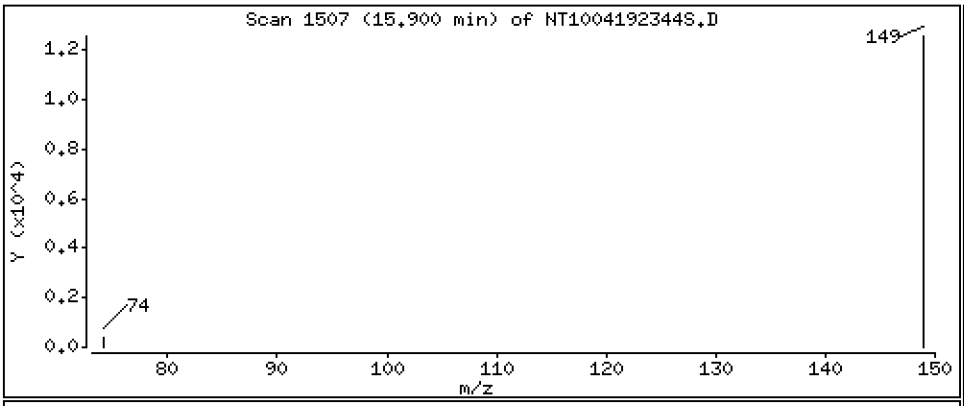
Operator: DSD

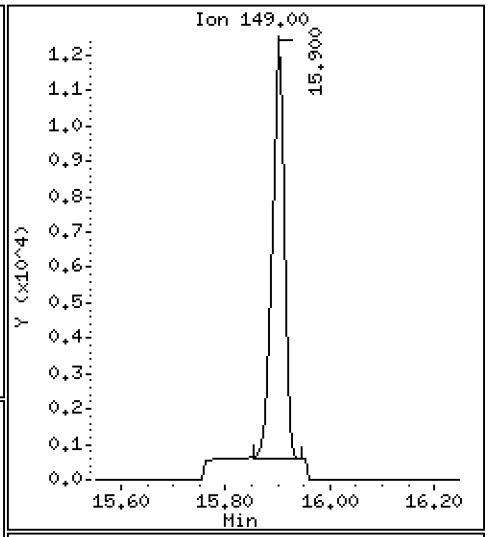
Column phase: ZB-5msi

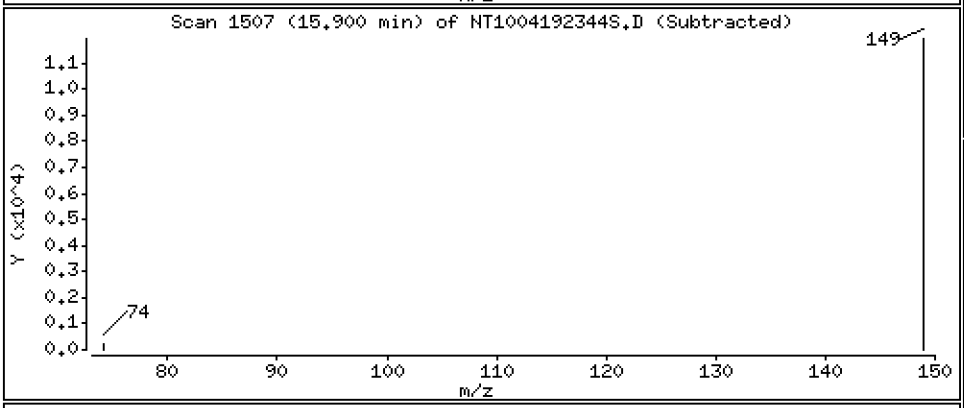
Column diameter: 0.25

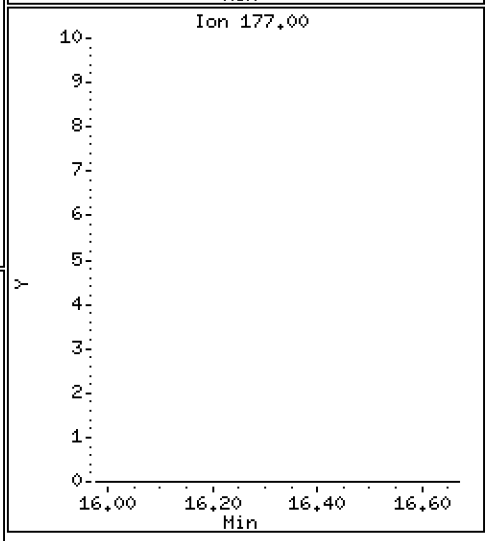
50 Diethylphthalate

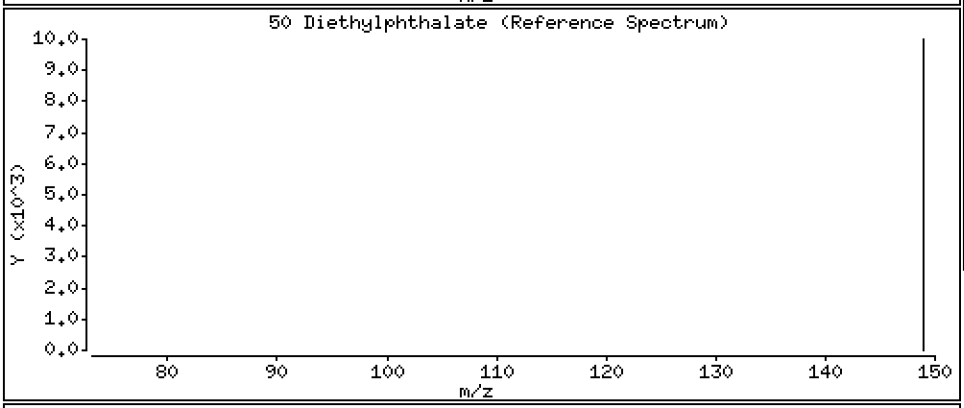
Concentration: 0.1702 ug/L

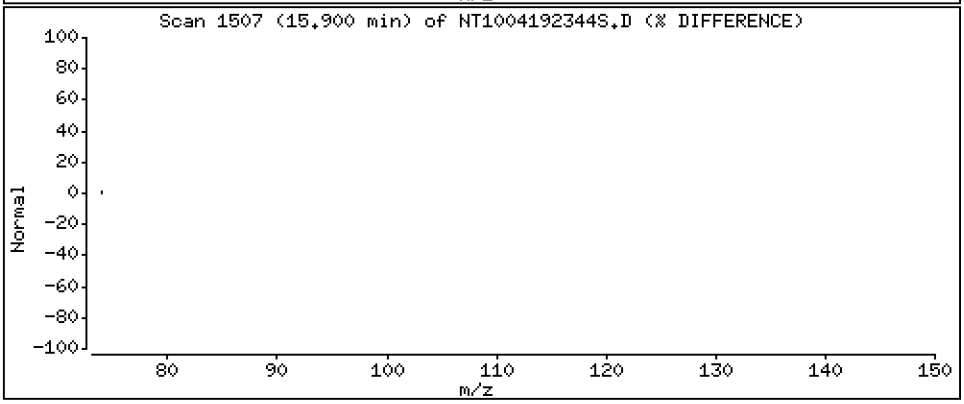












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192344S.D

Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

Volume Injected (uL): 1.0

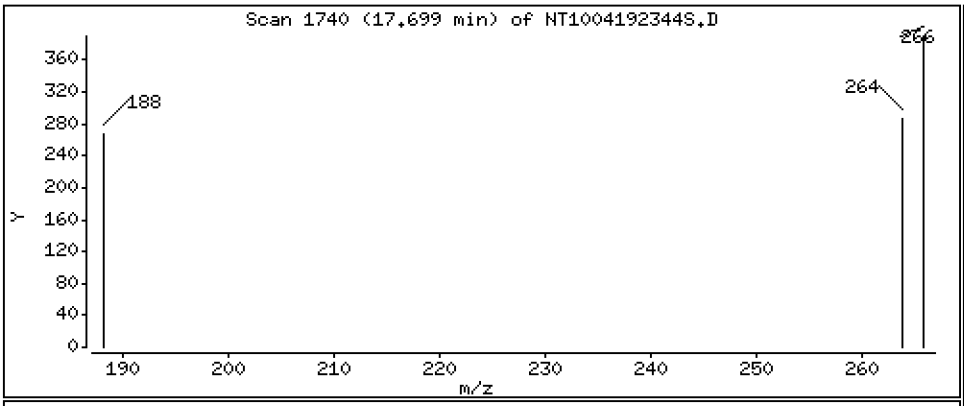
Operator: DSD

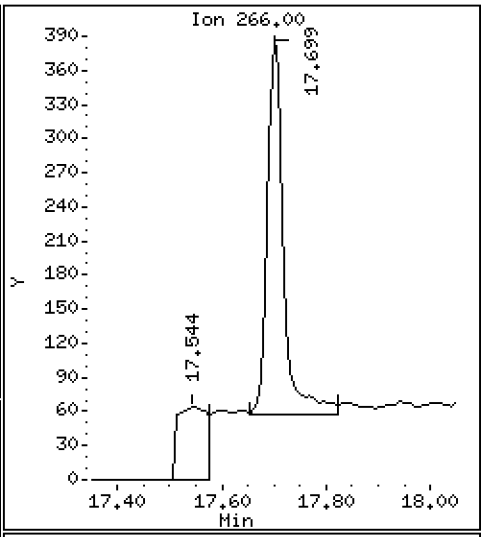
Column phase: ZB-5msi

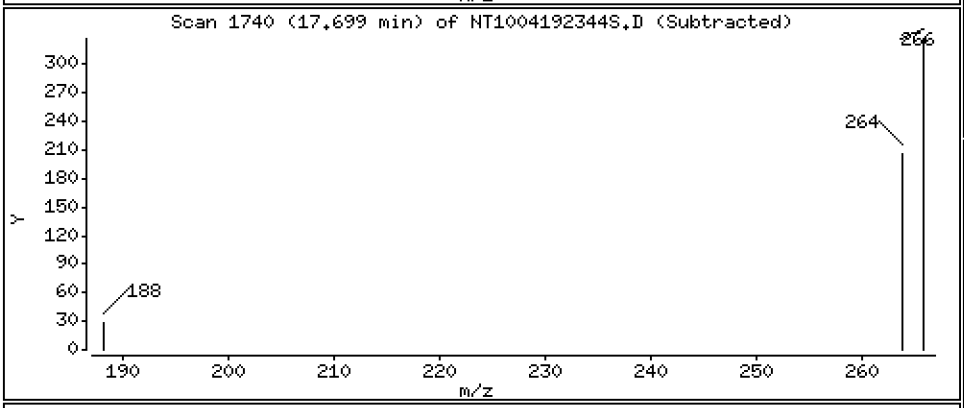
Column diameter: 0.25

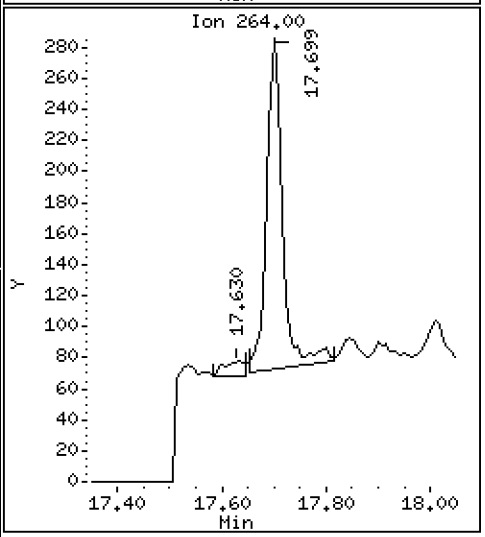
58 Pentachlorophenol

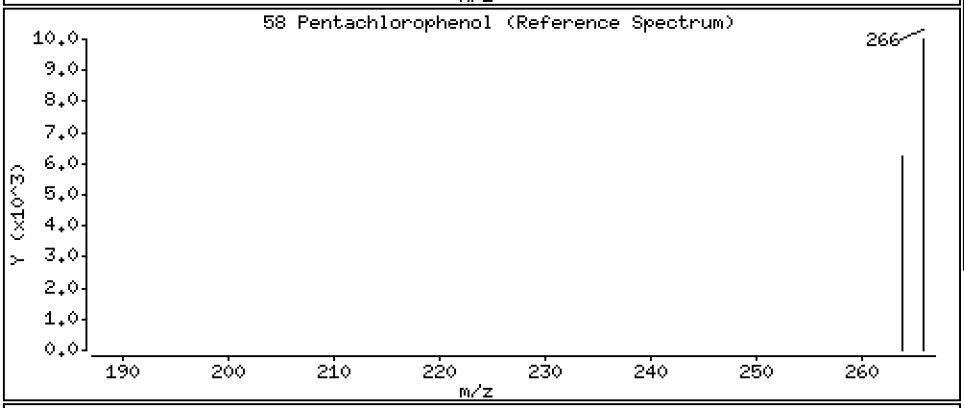
Concentration: 0.03184 ug/L

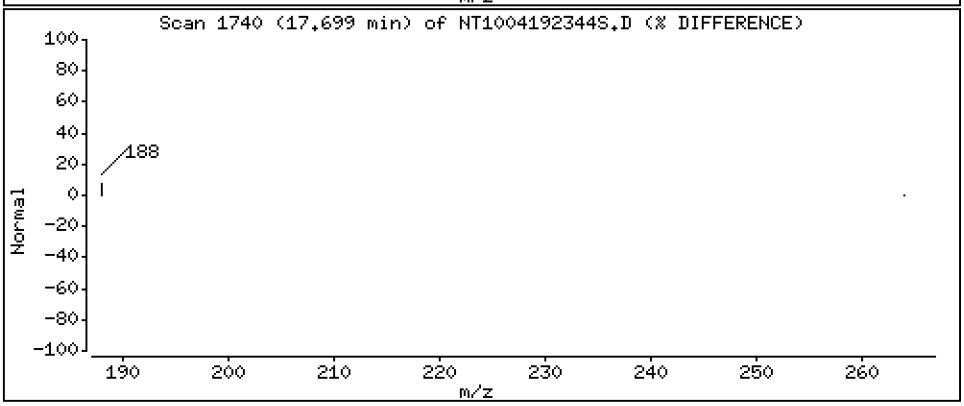












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192344S.D

Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

Volume Injected (uL): 1.0

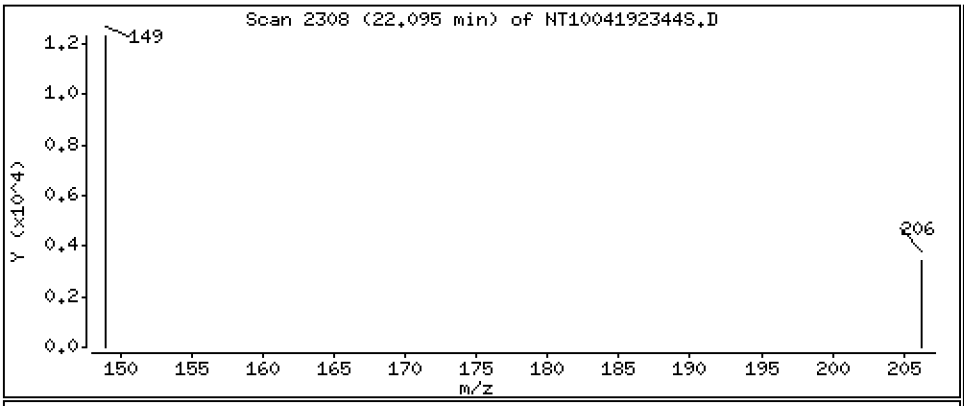
Operator: DSD

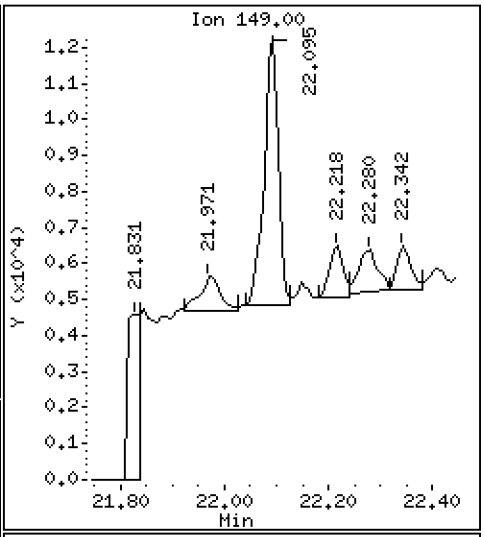
Column phase: ZB-5msi

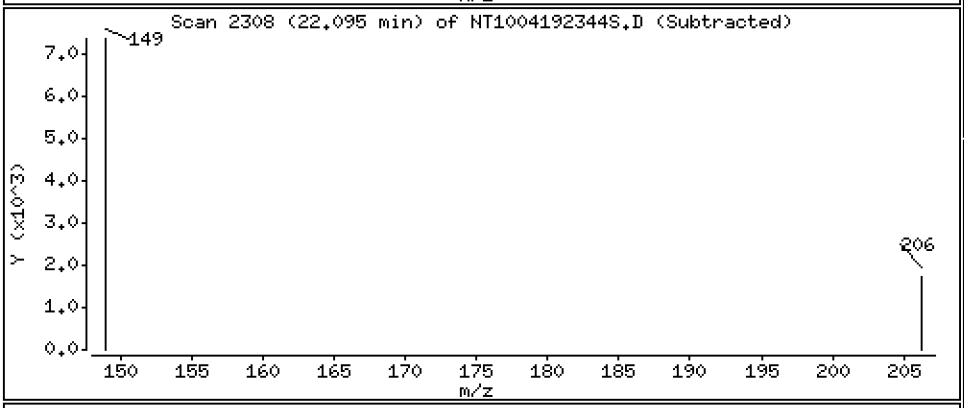
Column diameter: 0.25

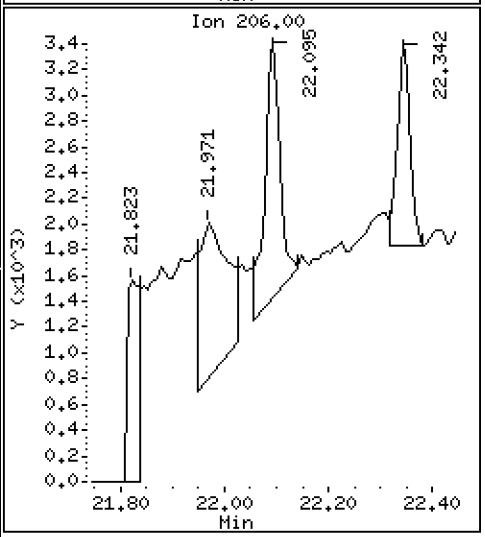
67 Butylbenzylphthalate

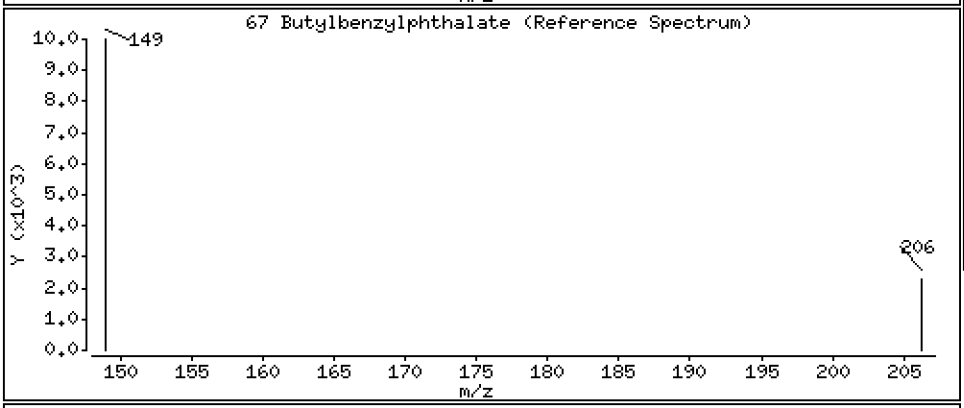
Concentration: 0.1521 ug/L

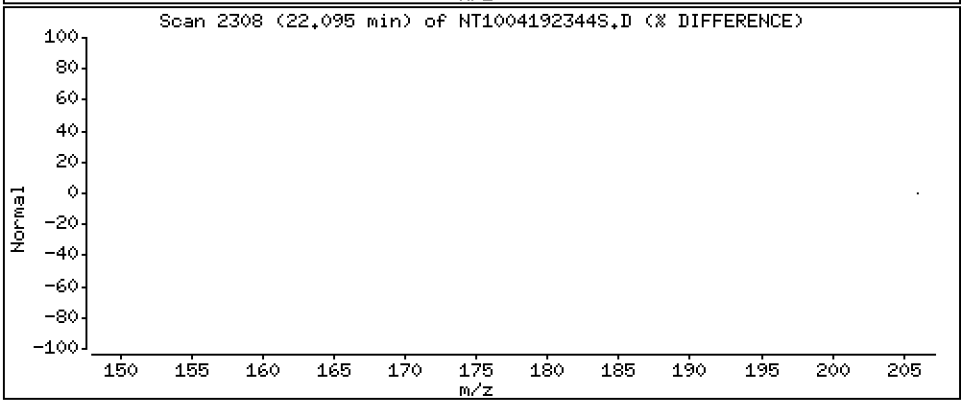












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192344S.D

Date : 20-APR-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-04

Volume Injected (uL): 1.0

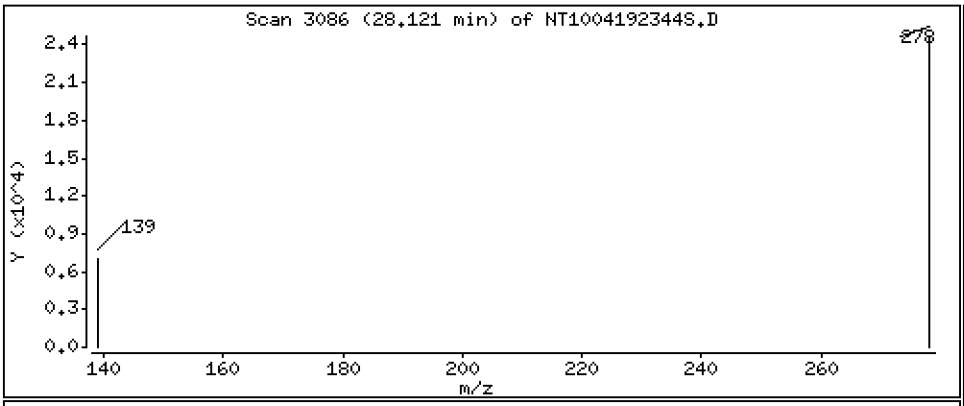
Operator: DSD

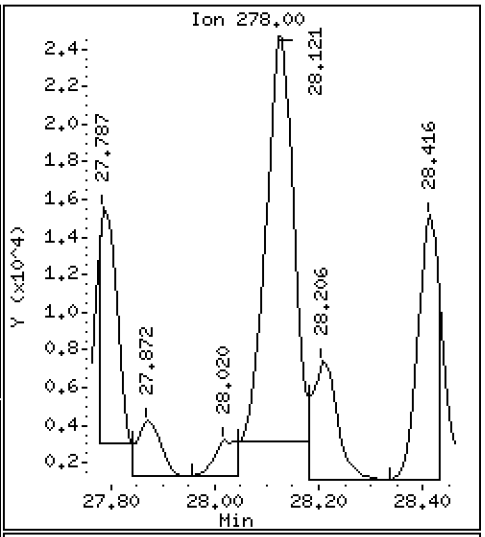
Column phase: ZB-5msi

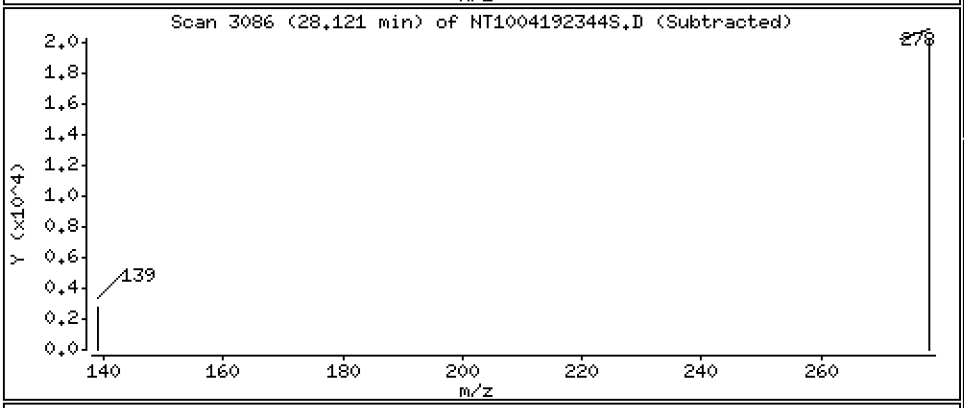
Column diameter: 0.25

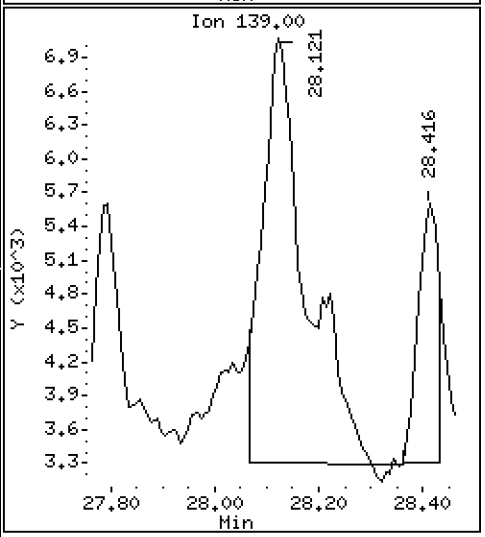
79 Dibenzo(a,h)anthracene

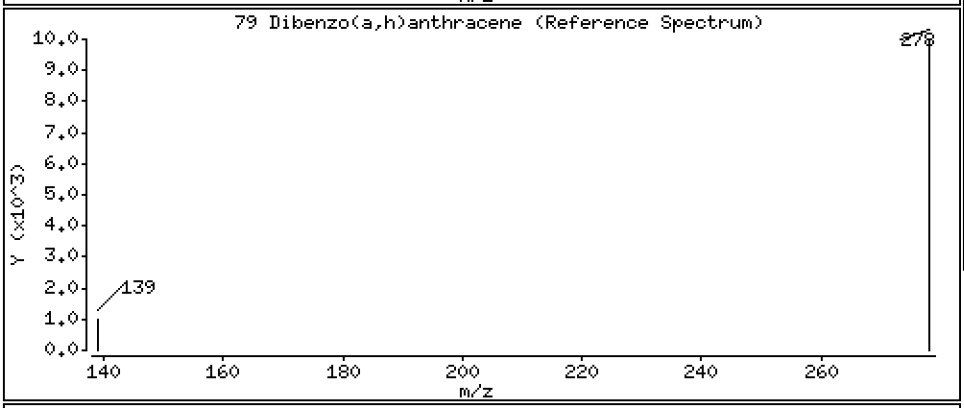
Concentration: 0.3142 ug/L

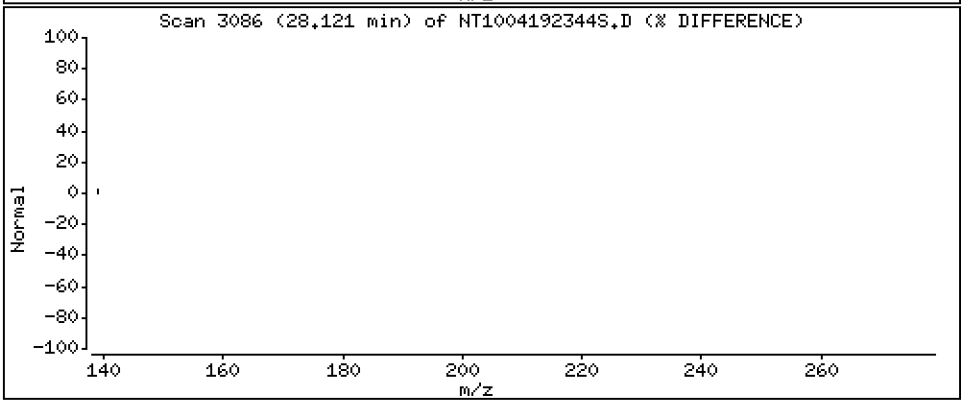












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192344S.D
Lab Smp Id: 23C0752-04
Inj Date : 20-APR-2023 14:40 MS Autotune Date: 16-JAN-2023 17:42
Operator : DSD Inst ID: nt10.i
Smp Info : 23C0752-04
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\SIMABN2.m
Meth Date : 21-Apr-2023 13:41 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.625	6.617	(0.750)	232091	4.28311	4.283(R)
3	Phenol	94	8.247	8.240	(0.933)	8552	0.11504	0.1150
7	1,3-Dichlorobenzene	146	8.765	8.766	(0.992)	285	0.00410	0.004097
* 8	1,4-Dichlorobenzene-d4	152	8.835	8.835	(1.000)	178692	4.00000	
9	1,4-Dichlorobenzene	146	8.858	8.859	(1.003)	657	0.00978	0.009784(M)
11	Benzyl alcohol	79	9.114	9.115	(1.032)	6850	0.15894	0.1589
12	1,2-Dichlorobenzene	146	9.215	9.216	(1.043)	184	0.00279	0.002786
13	2-Methylphenol	108	9.355	9.348	(1.059)	1205	0.02339	0.02339
15	4-Methylphenol	108	9.635	9.627	(1.090)	3113	0.05816	0.05816
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
22	2,4-Dimethylphenol	107	10.664	10.656	(0.943)	1057	0.01881	0.01881
24	Benzoic acid	105	10.783	10.809	(0.953)	10076	0.32766	0.3277
26	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
* 27	Naphthalene-d8	136	11.312	11.312	(1.000)	650074	4.00000	
30	Hexachlorobutadiene	225	Compound Not Detected.					
39	Dimethylphthalate	163	14.438	14.446	(0.968)	9388	0.08809	0.08809
* 42	Acenaphthene-d10	162	14.917	14.918	(1.000)	337700	4.00000	
50	Diethylphthalate	149	15.899	15.900	(1.066)	18786	0.17016	0.1702
54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
57	Hexachlorobenzene	284	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
58	Pentachlorophenol	266	17.699	17.699	(0.986)	681	0.03184	0.03184
* 59	Phenanthrene-d10	188	17.954	17.947	(1.000)	645163	4.00000	
$ 66	Terphenyl-d14	244	21.142	21.142	(0.917)	347530	3.22075	3.221(R)
67	Butylbenzylphthalate	149	22.094	22.094	(0.958)	13255	0.15208	0.1521
* 69	Chrysene-d12	240	23.054	23.047	(1.000)	662245	4.00000	
* 77	Perylene-d12	264	25.609	25.594	(1.000)	770374	4.00000	
79	Dibenzo(a,h)anthracene	278	28.120	28.113	(1.098)	79322	0.31417	0.3142
90	N-Nitrosodimethylamine	74	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192344S.D
Lab Smp Id: 23C0752-04
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\SIMABN2.m
Misc Info:

Calibration Date: 20-APR-2023
Calibration Time: 08:57
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	128281	64141	256562	178692	39.30
27 Naphthalene-d8	458707	229354	917414	650074	41.72
42 Acenaphthene-d10	243296	121648	486592	337700	38.80
59 Phenanthrene-d10	433853	216927	867706	645163	48.71
69 Chrysene-d12	435413	217707	870826	662245	52.10
77 Perylene-d12	490854	245427	981708	770374	56.95

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.84	8.34	9.34	8.84	-0.00
27 Naphthalene-d8	11.31	10.81	11.81	11.31	-0.00
42 Acenaphthene-d10	14.92	14.42	15.42	14.92	-0.00
59 Phenanthrene-d10	17.95	17.45	18.45	17.95	0.04
69 Chrysene-d12	23.05	22.55	23.55	23.05	0.03
77 Perylene-d12	25.59	25.09	26.09	25.61	0.06

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

REVIEW SUMMARY FOR FILE - NT1004192344S.D

Lab ID: 23C0752-04
nt10.i, 20230419B.b\20230419B.b\SIMABN2.m,   20-APR-2023 14:40

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230419B.b/NT1004192335S.D

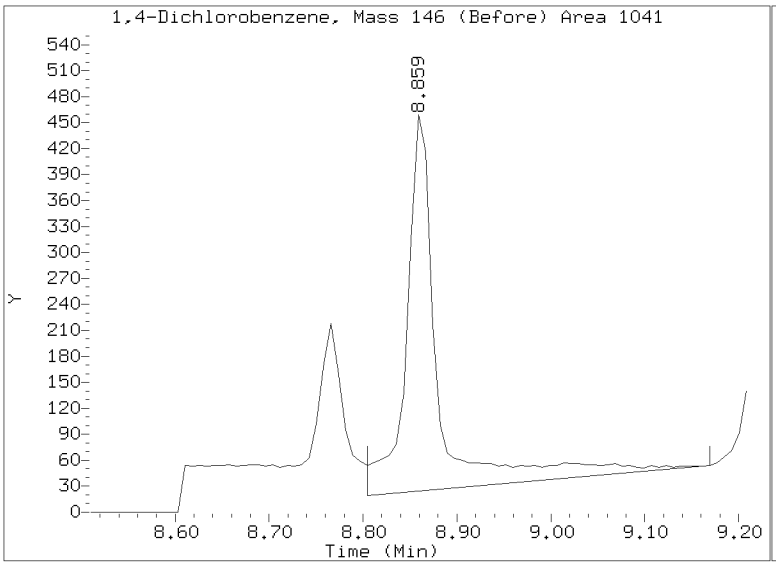
On Column LOD for nt10.i, 20230419B.b\SIMABN2.m, PSDDA.sub = 0.0000

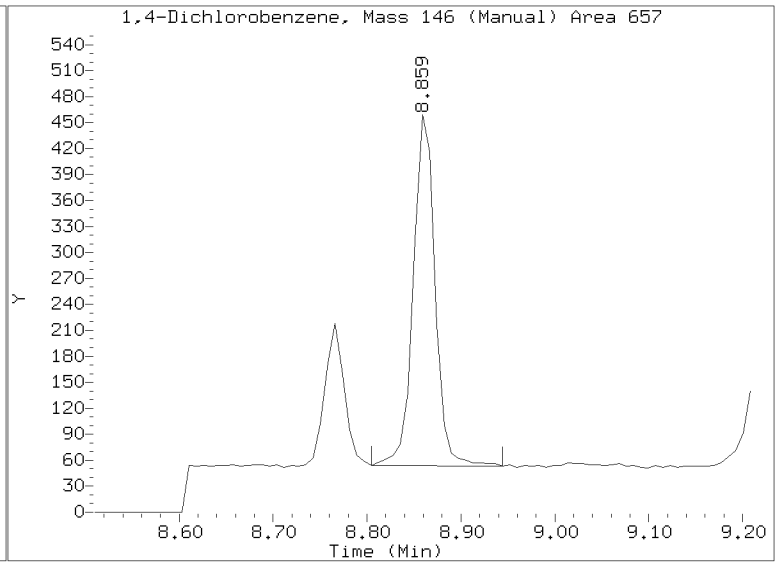
Exception: 1,2,4-Trichlorobenzene 0.0010

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230419B.b/20230419B.b/NT1004192344S.D
Injection Date: 20-APR-2023 14:40
Lab ID:23C0752-04 Client ID:
Report Date: 04/21/2023 14:05





APPROVED

By Deenay Dunmore at 2:36 pm, Apr 21, 2023

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1809

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E-SIM

SIM SVOC Organics (Dual scan list)

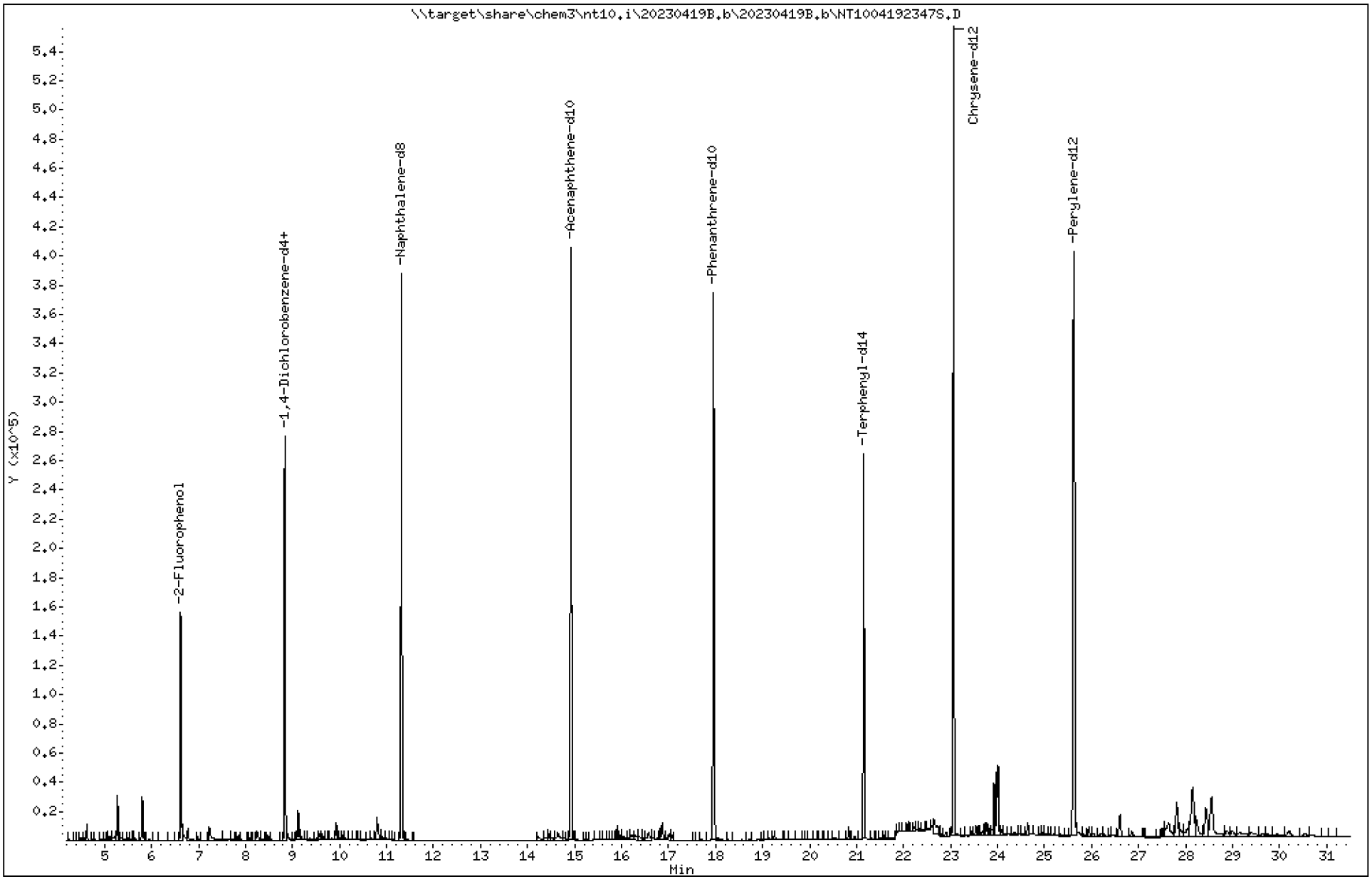
Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-06 A	SDG:	23C0752
Sampled:	03/30/23 14:30	Prepared:	04/03/23 11:31	File ID:	NT1004192347S.D
% Solids:	46.72	Preparation:	EPA 3546 (Microwave)	Analyzed:	04/20/23 16:34
Batch:	BLD0008	Sequence:	SLD0302	Initial/Final:	21.43 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00049
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
106-46-7	1,4-Dichlorobenzene	1	0.8	J	0.6	5.0
95-50-1	1,2-Dichlorobenzene	1	5.0	U	0.7	5.0
100-51-6	Benzyl Alcohol	1	51.8		2.5	20.0
65-85-0	Benzoic acid	1	80.3	J	13.4	99.9
105-67-9	2,4-Dimethylphenol	1	3.0	J	2.2	20.0
120-82-1	1,2,4-Trichlorobenzene	1	5.0	U	2.7	5.0
86-30-6	N-Nitrosodiphenylamine	1	5.0	U	1.3	5.0
87-86-5	Pentachlorophenol	1	3.1	J	2.1	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	749.09	333	44.5	27 - 120	
p-Terphenyl-d14	499.40	303	60.6	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT10041923475.D
Date : 20-APR-2023 16:34
Client ID:
Sample Info: 23C0752-06
Volume Injected (uL): 1.0
Column phase: ZB-5msi

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



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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

Volume Injected (uL): 1.0

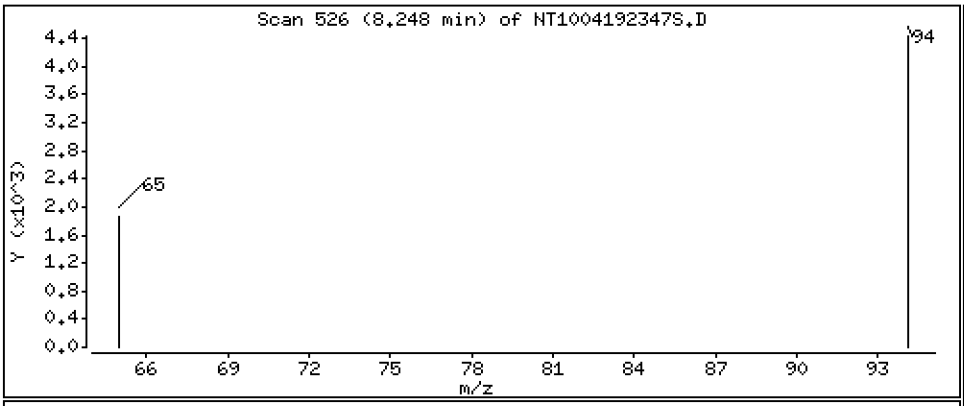
Operator: DSD

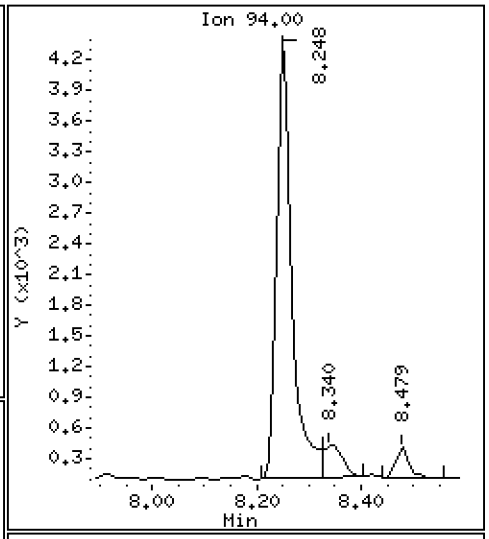
Column phase: ZB-5msi

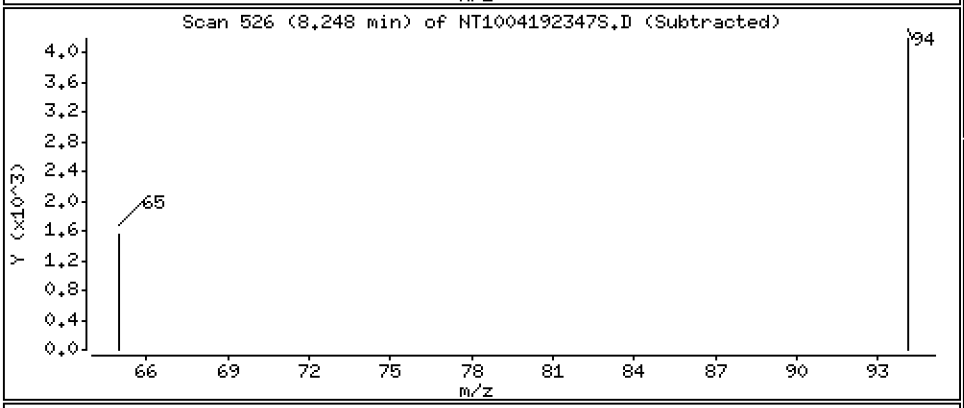
Column diameter: 0.25

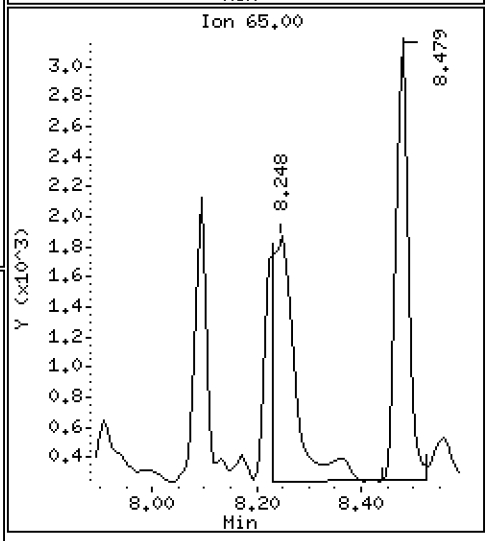
3 Phenol

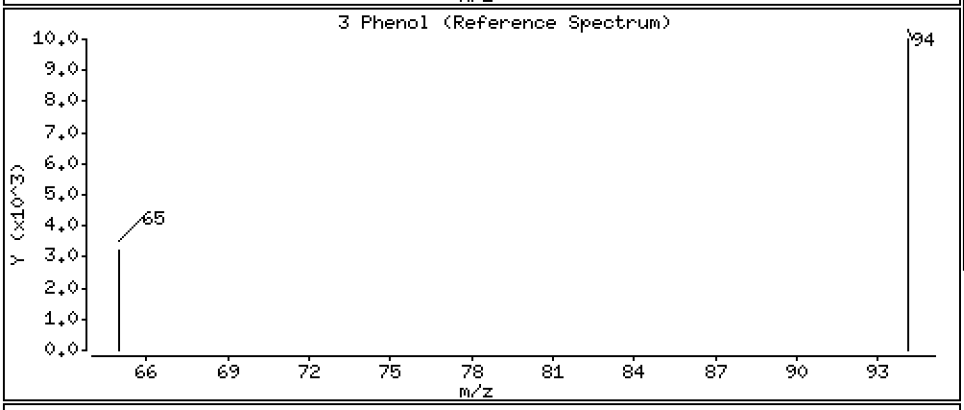
Concentration: 0.1218 ug/L

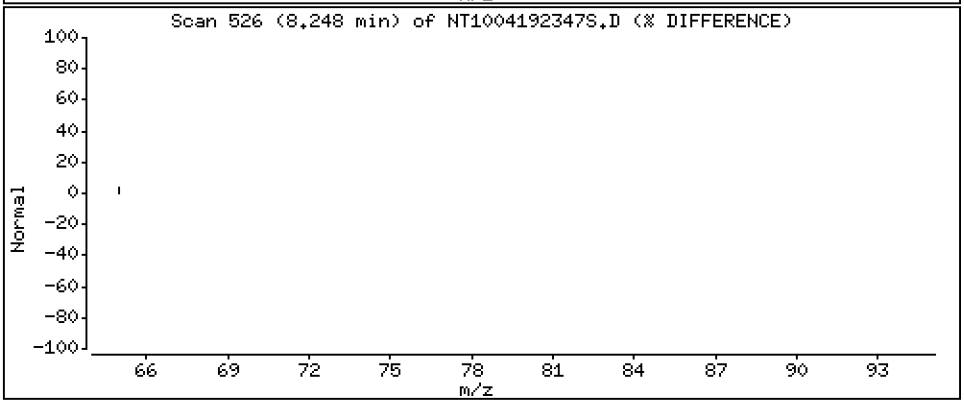












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192347S.D

Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

Volume Injected (uL): 1.0

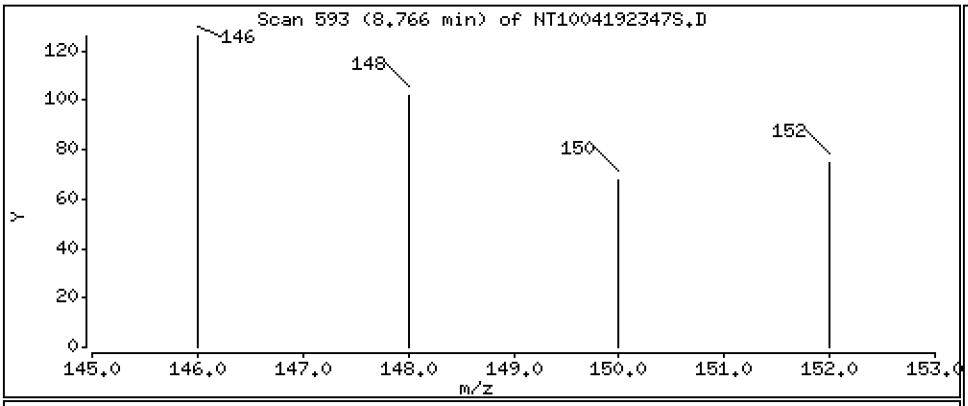
Operator: DSD

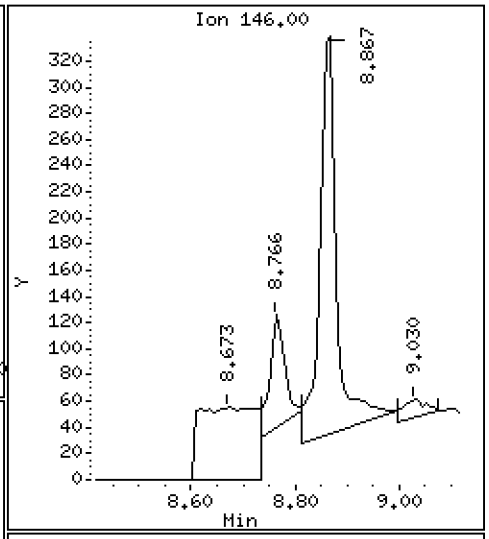
Column phase: ZB-5msi

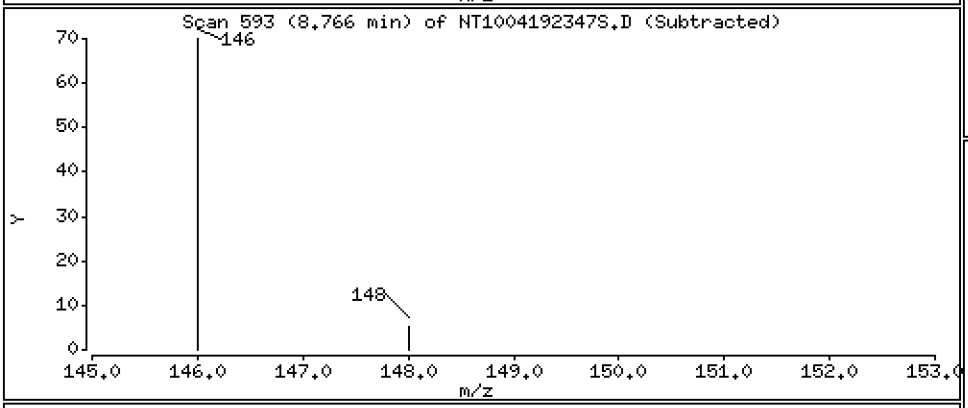
Column diameter: 0.25

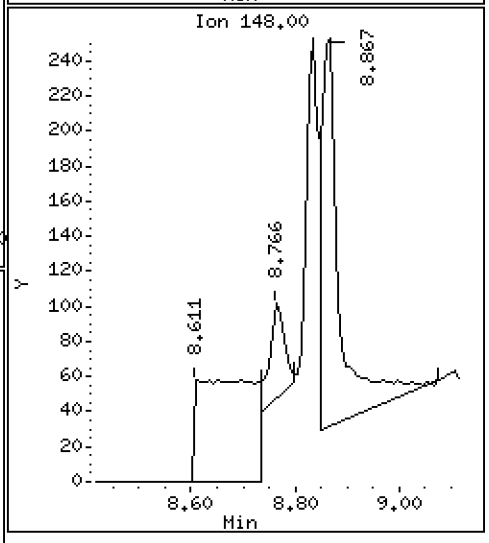
7 1,3-Dichlorobenzene

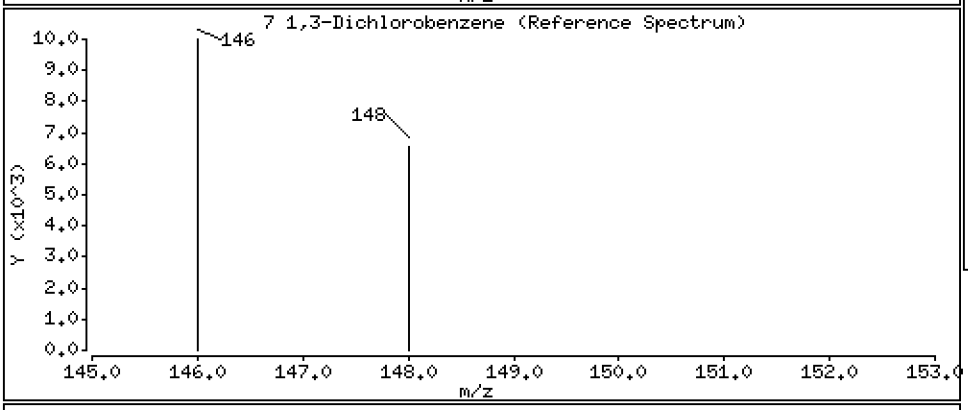
Concentration: 0.002490 ug/L

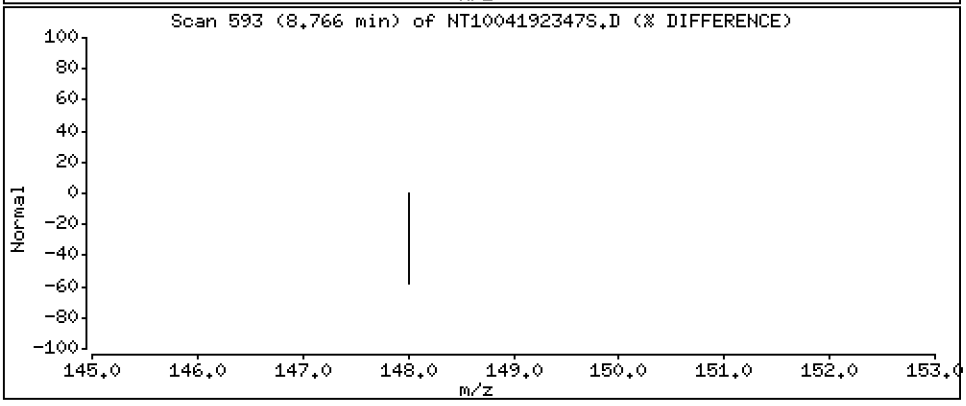












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

Volume Injected (uL): 1.0

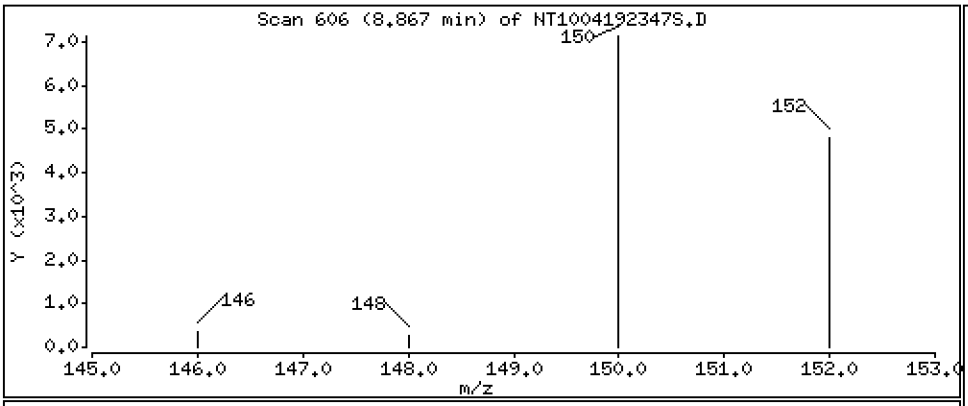
Operator: DSD

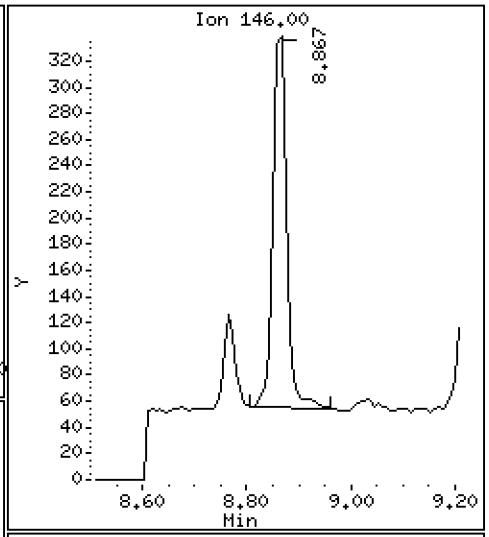
Column phase: ZB-5msi

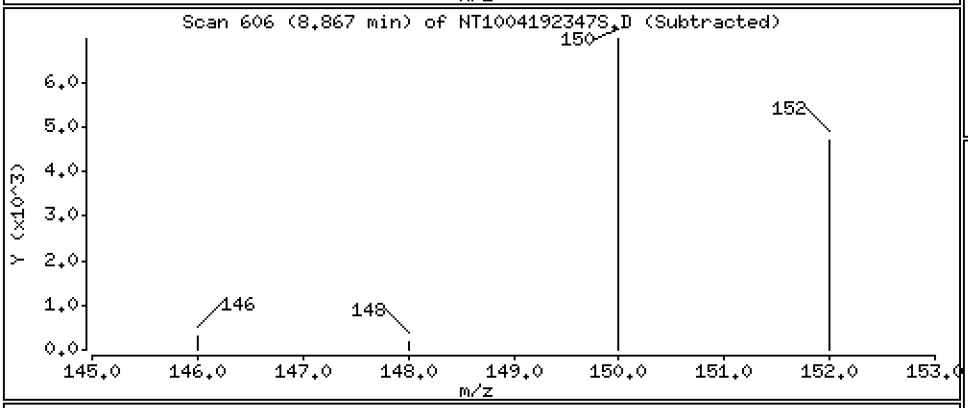
Column diameter: 0.25

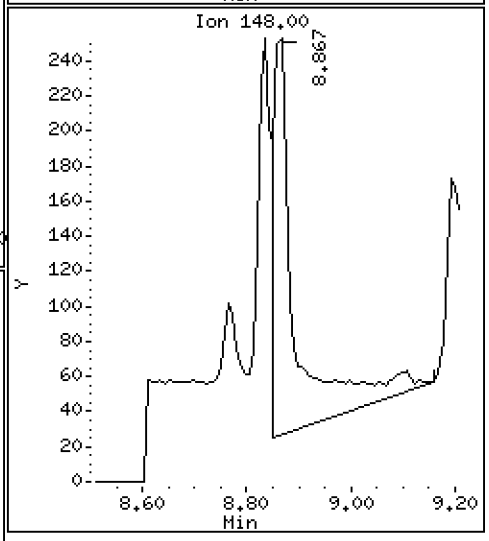
9 1,4-Dichlorobenzene

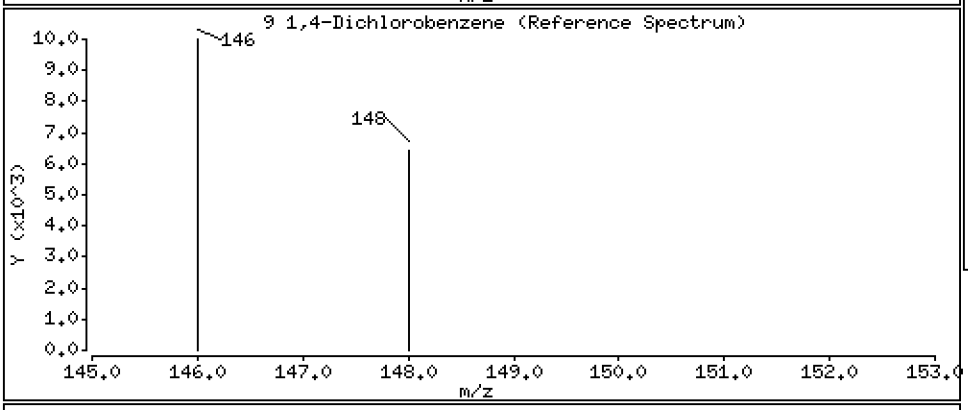
Concentration: 0.007631 ug/L

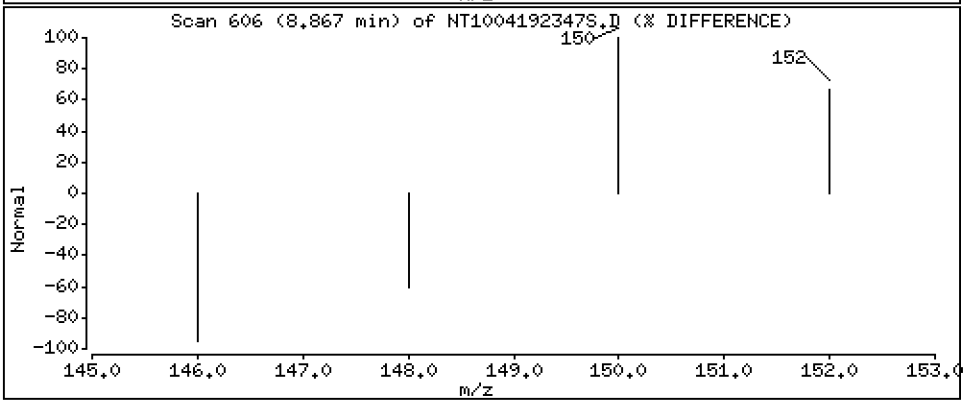












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192347S.D

Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

Volume Injected (uL): 1.0

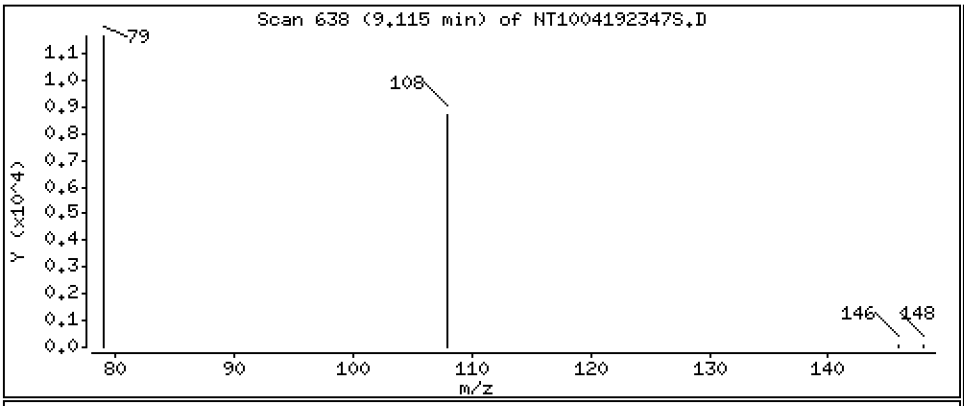
Operator: DSD

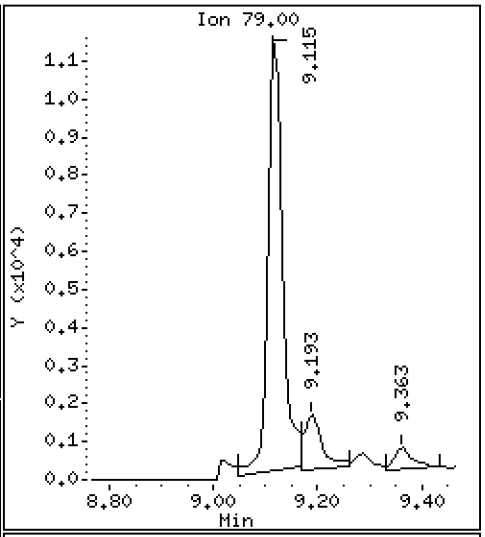
Column phase: ZB-5msi

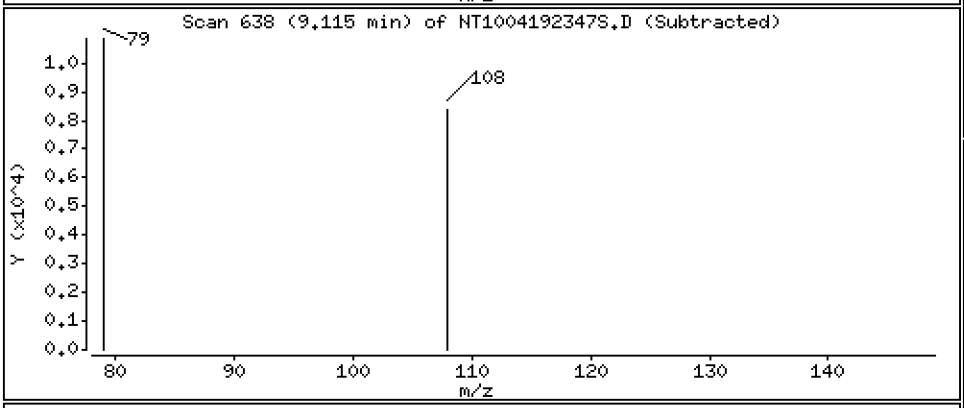
Column diameter: 0.25

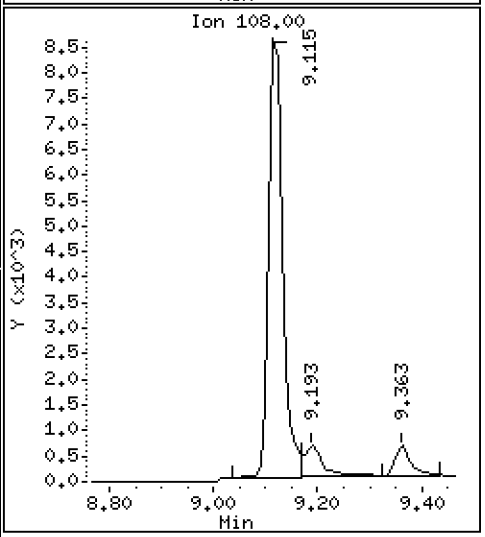
11 Benzyl alcohol

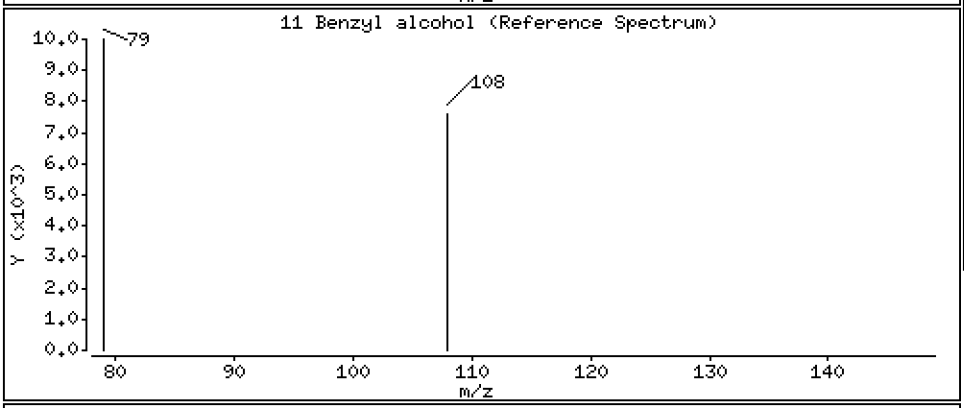
Concentration: 0.5184 ug/L

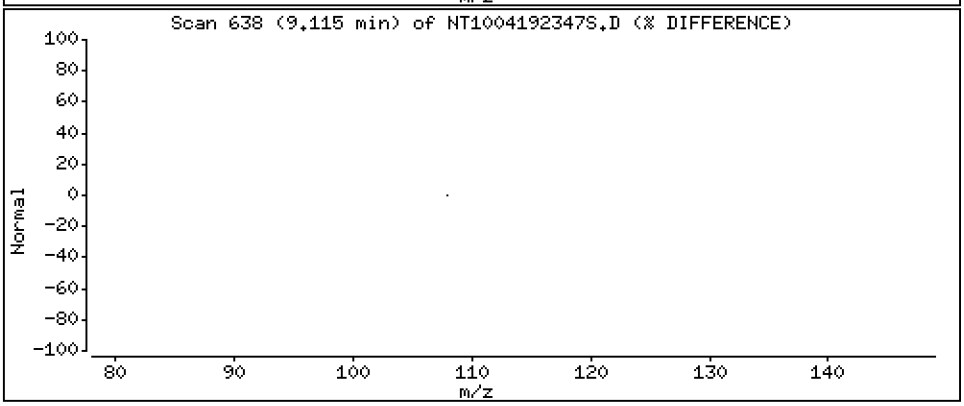












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192347S.D

Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

Volume Injected (uL): 1.0

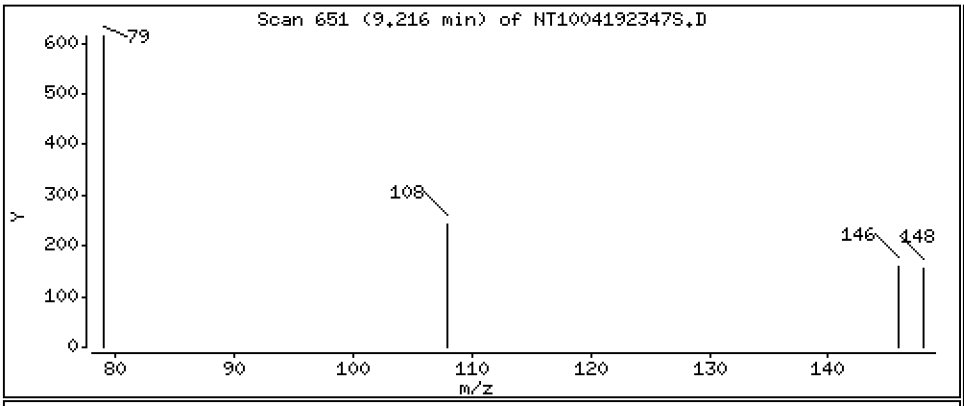
Operator: DSD

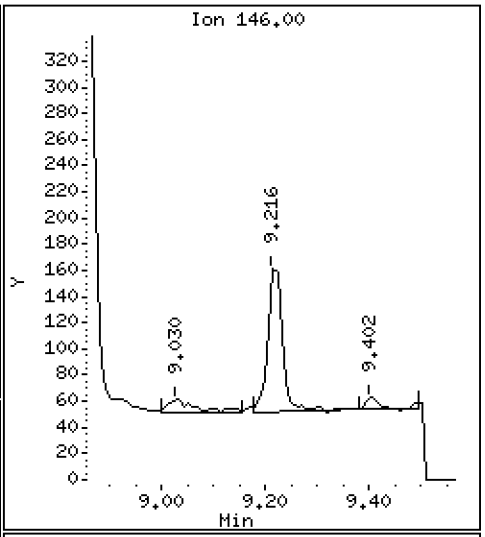
Column phase: ZB-5msi

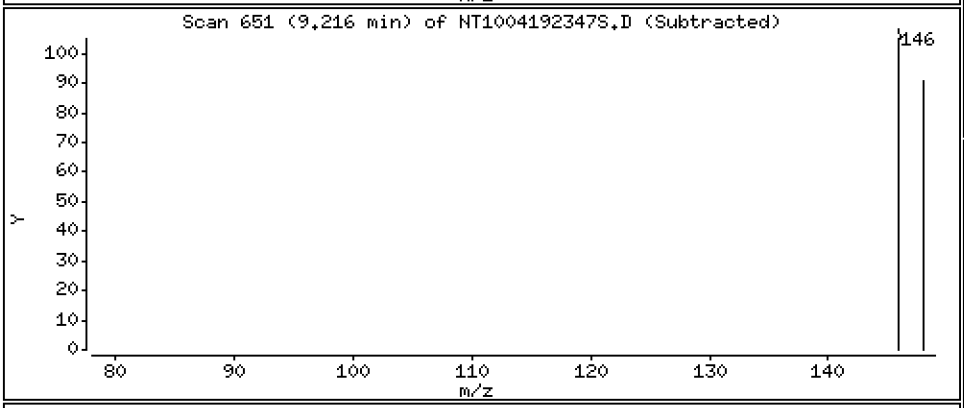
Column diameter: 0.25

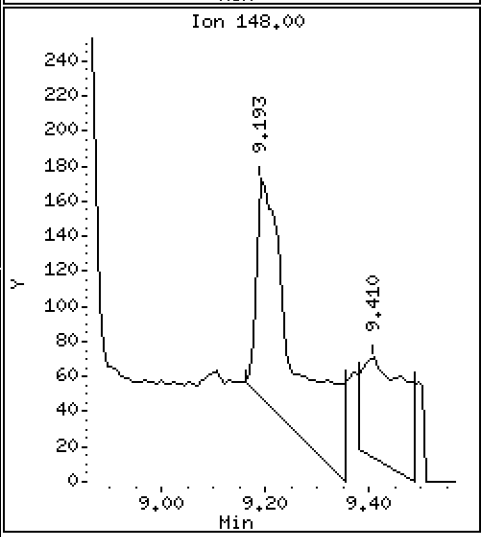
12 1,2-Dichlorobenzene

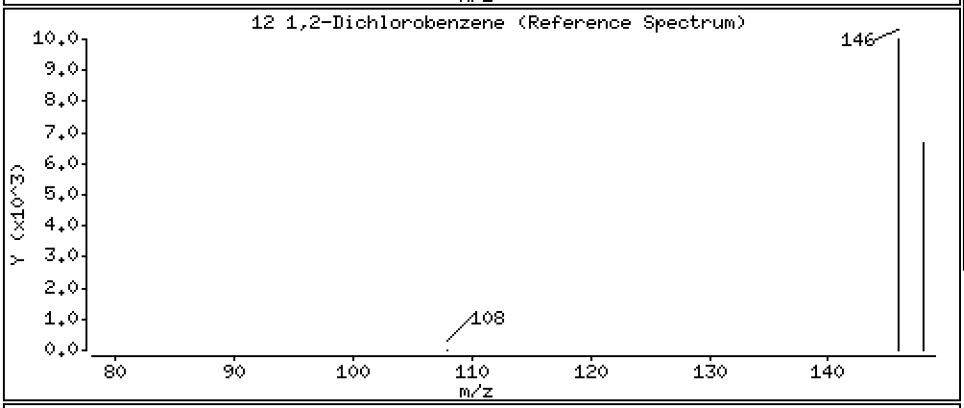
Concentration: 0.003173 ug/L

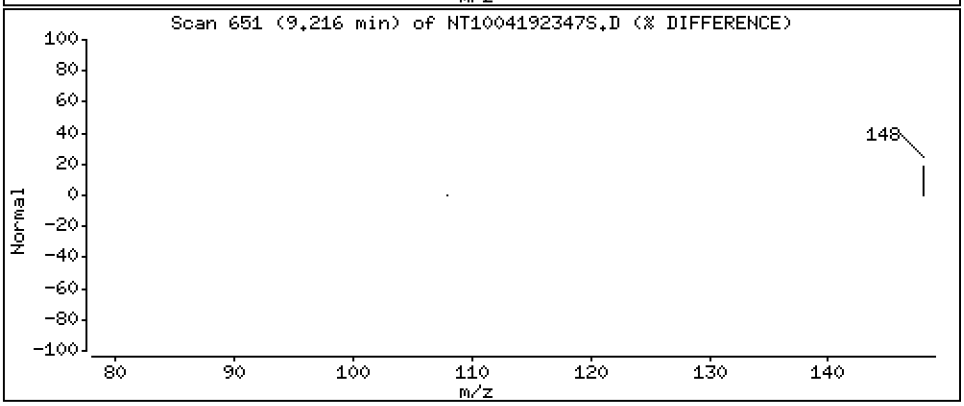












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

Volume Injected (uL): 1.0

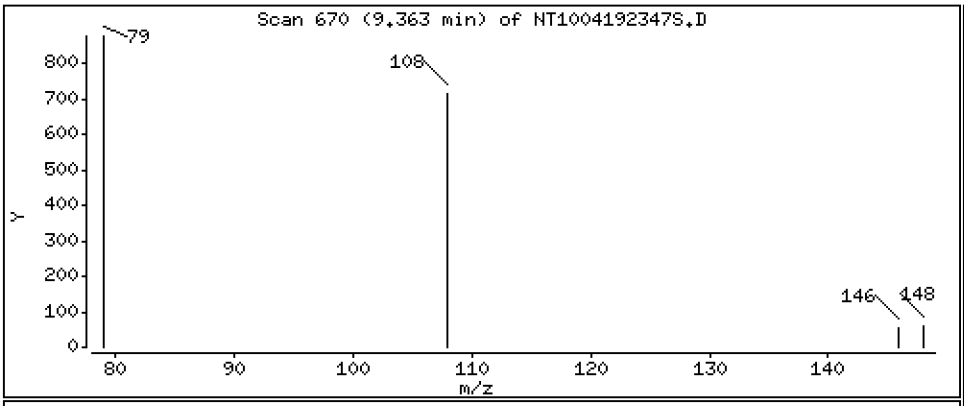
Operator: DSD

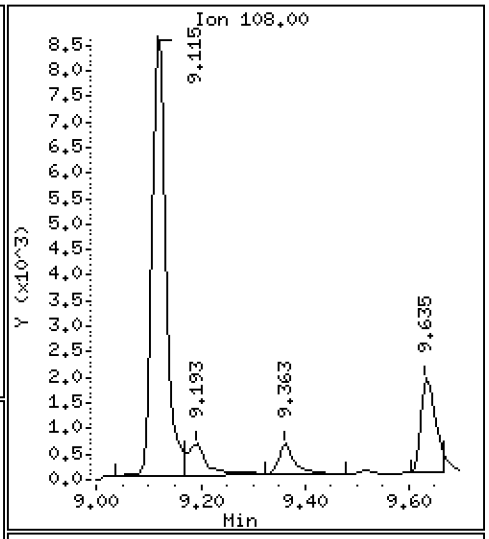
Column phase: ZB-5msi

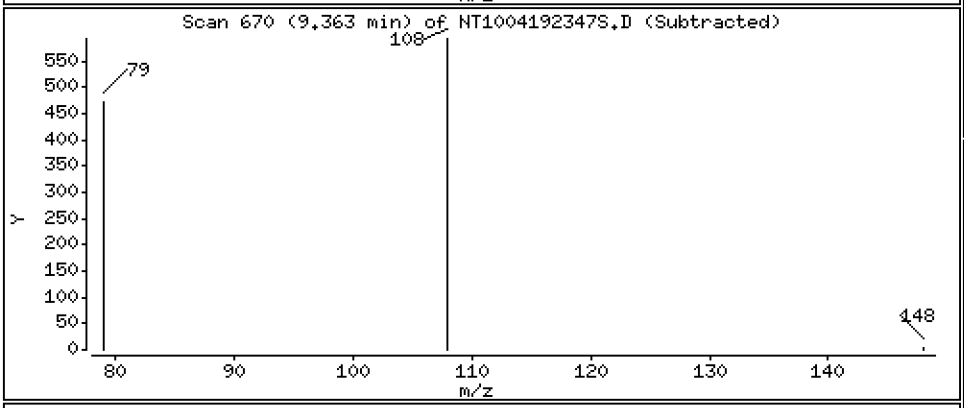
Column diameter: 0.25

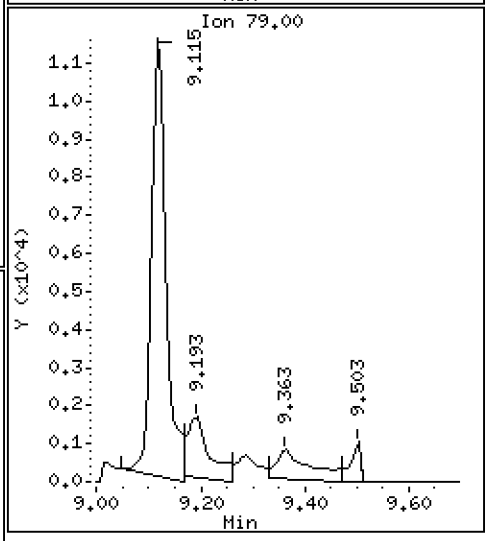
13 2-Methylphenol

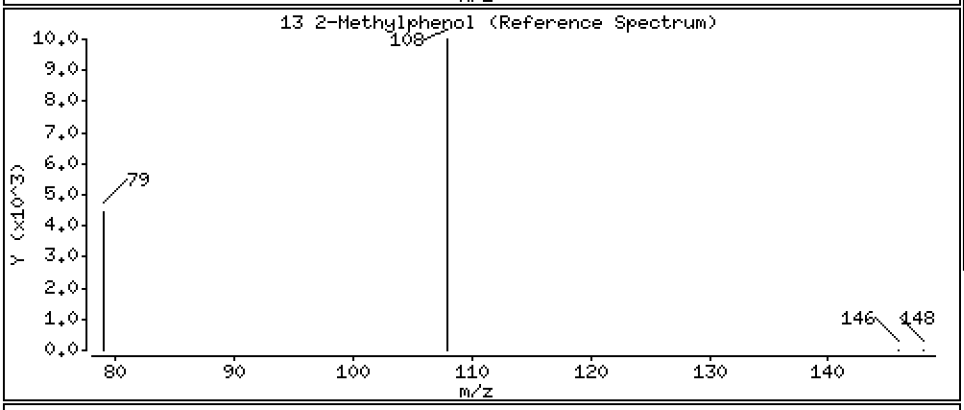
Concentration: 0.02662 ug/L

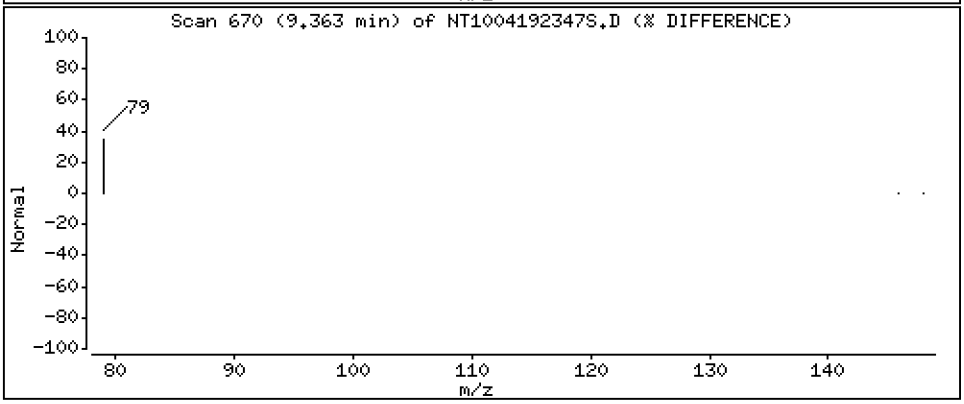












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

Volume Injected (uL): 1.0

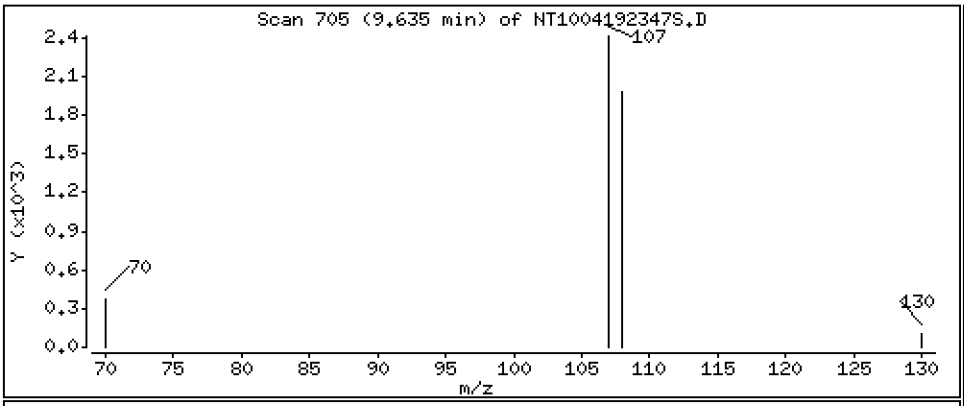
Operator: DSD

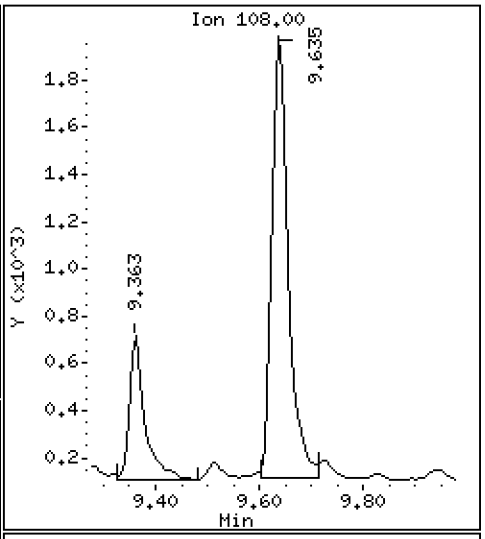
Column phase: ZB-5msi

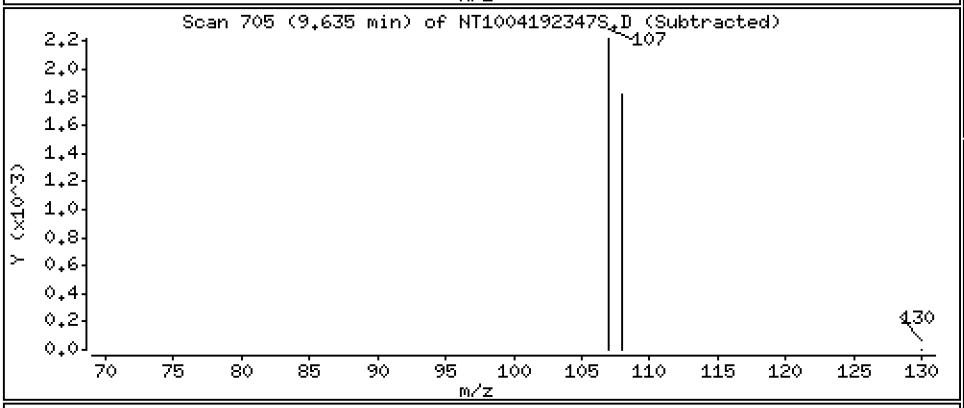
Column diameter: 0.25

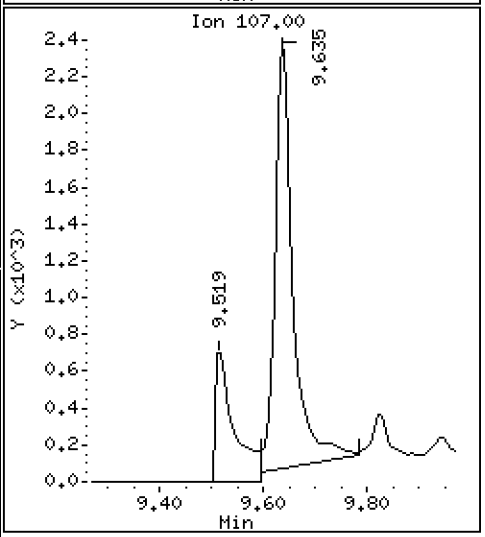
15 4-Methylphenol

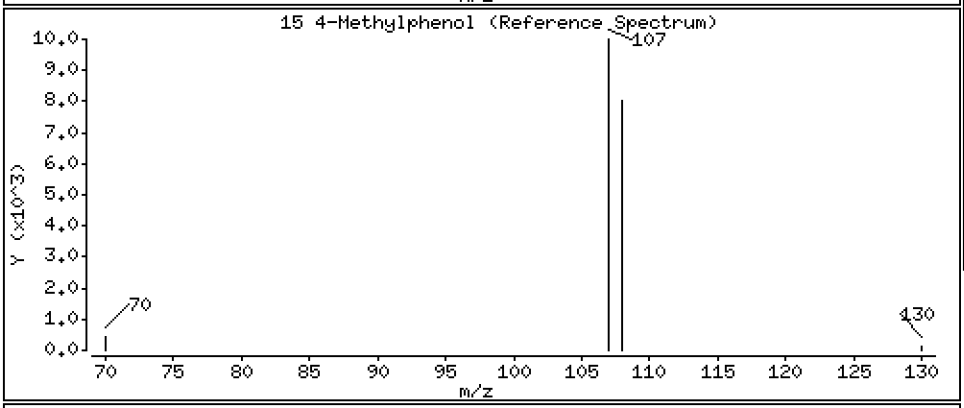
Concentration: 0.07979 ug/L

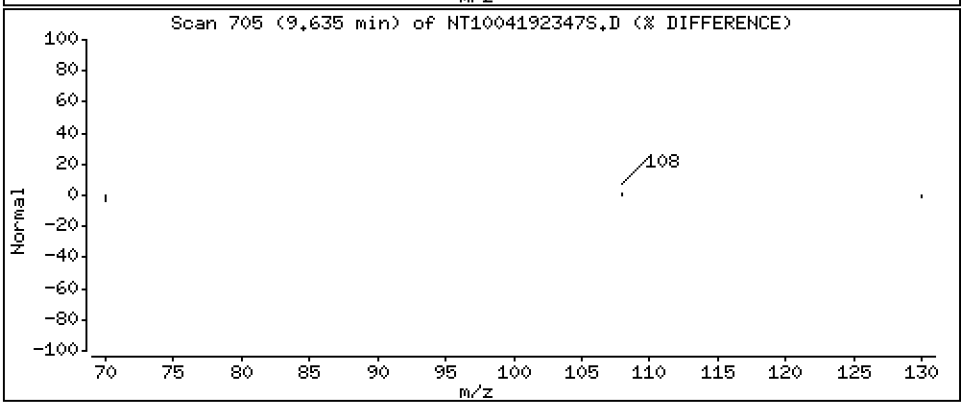












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

Volume Injected (uL): 1.0

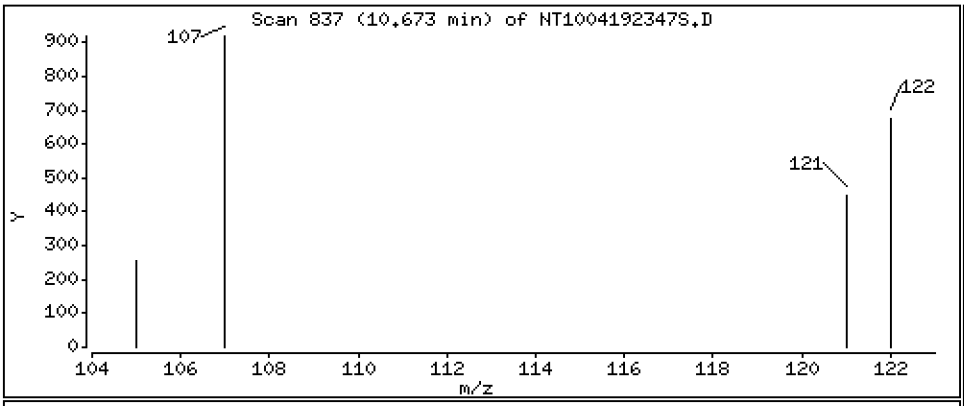
Operator: DSD

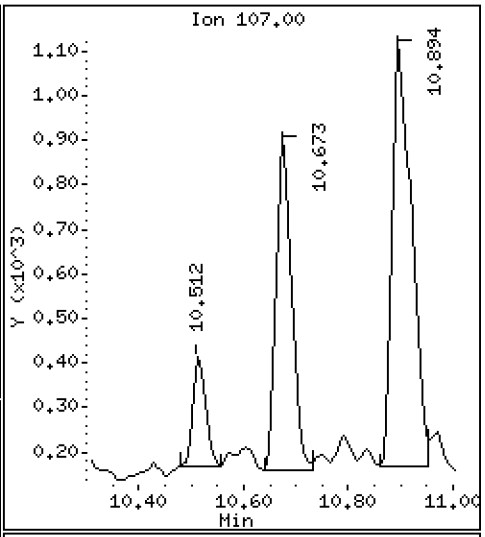
Column phase: ZB-5msi

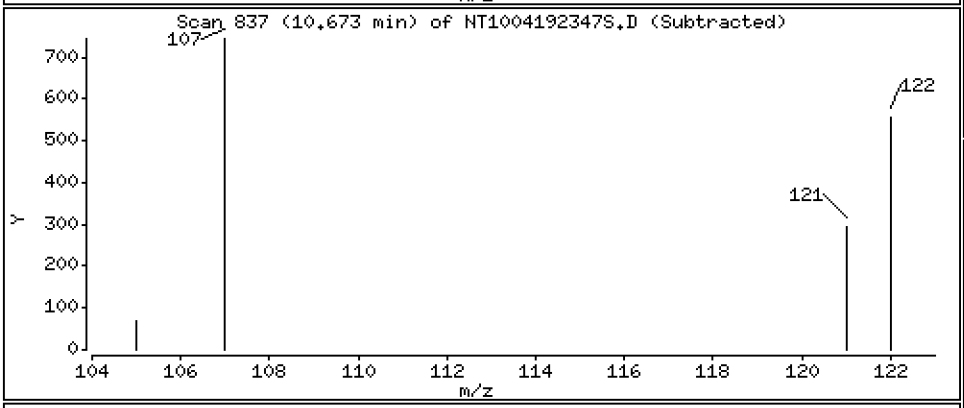
Column diameter: 0.25

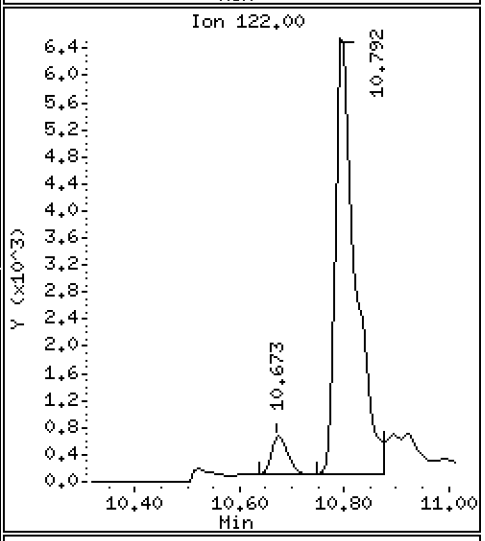
22 2,4-Dimethylphenol

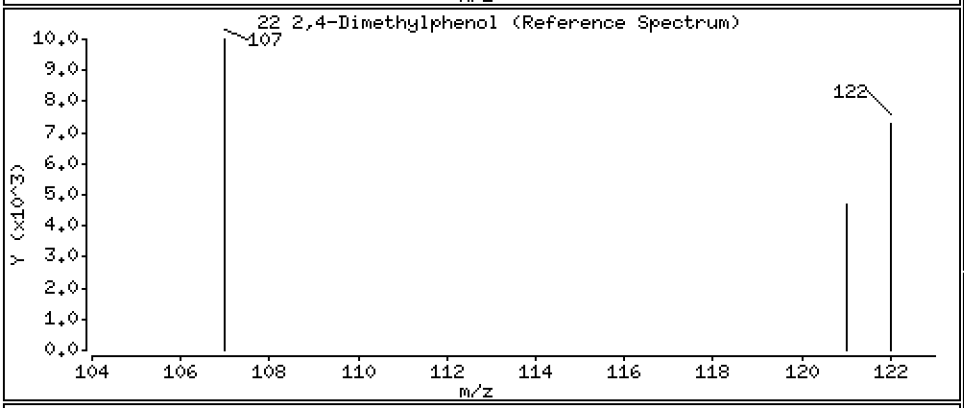
Concentration: 0.02958 ug/L

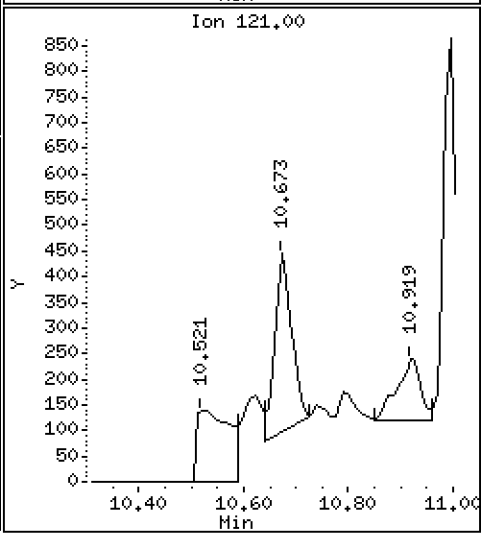


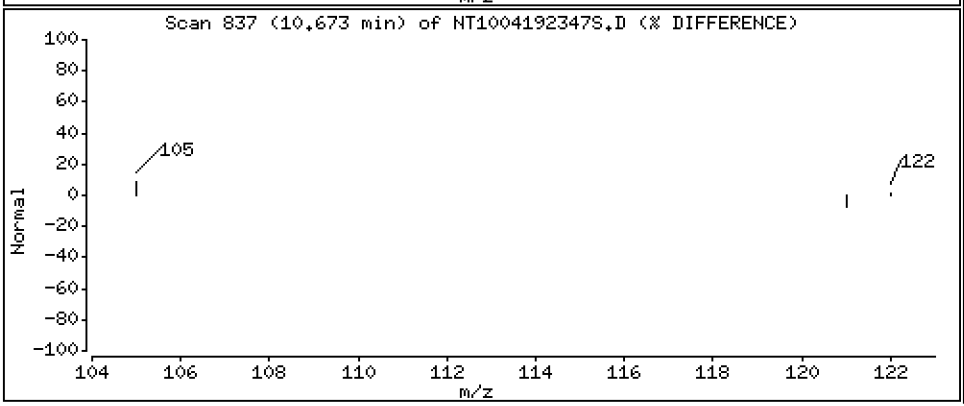












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Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

Volume Injected (uL): 1.0

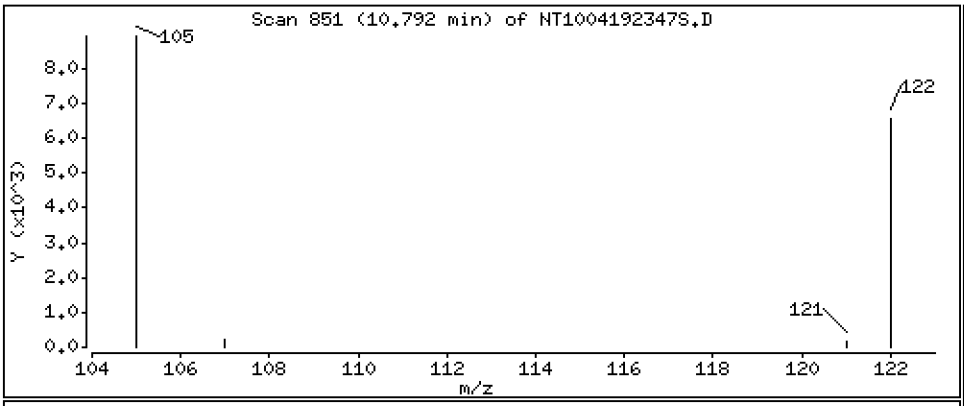
Operator: DSD

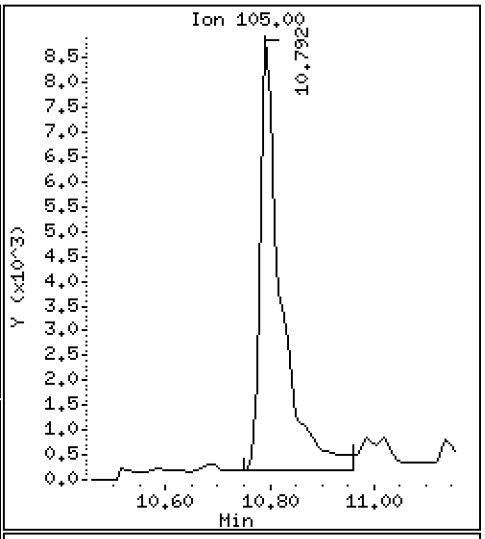
Column phase: ZB-5msi

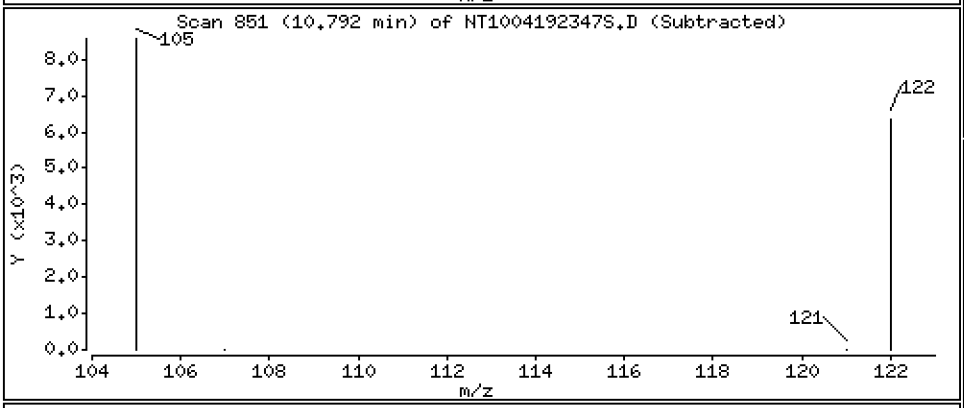
Column diameter: 0.25

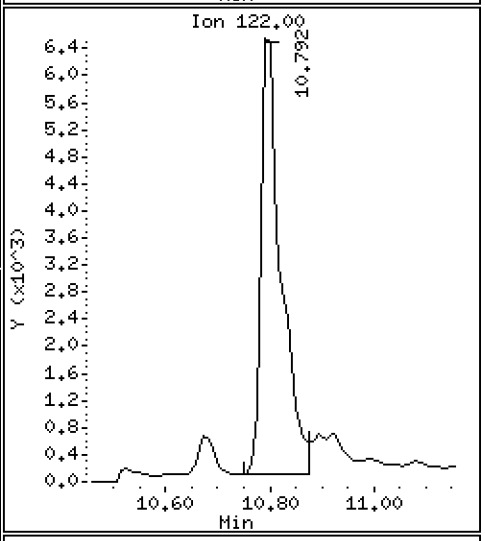
24 Benzoic acid

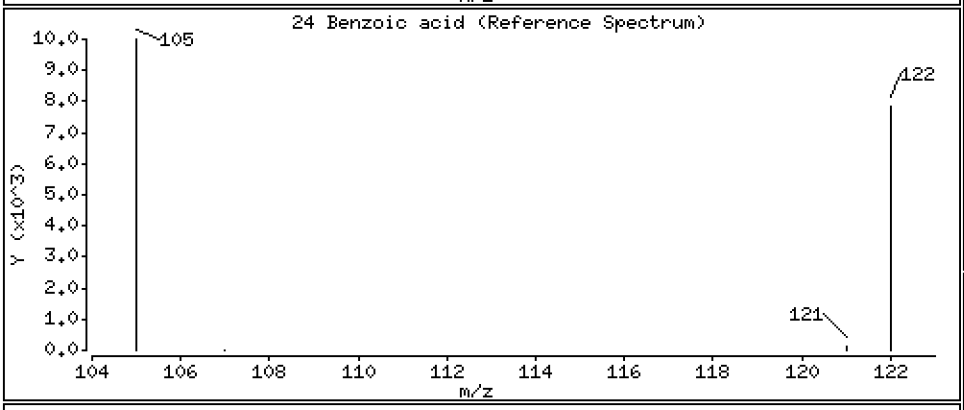
Concentration: 0.8044 ug/L

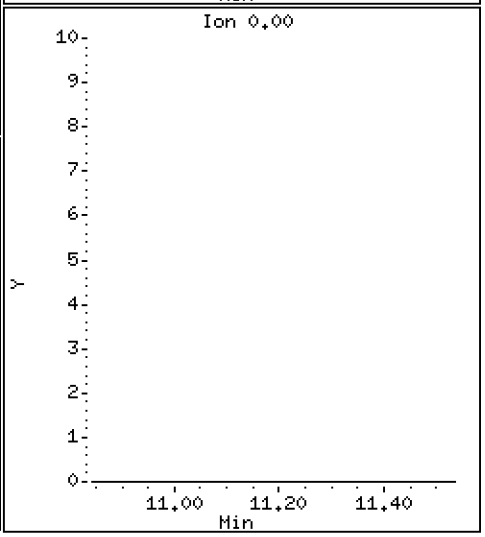


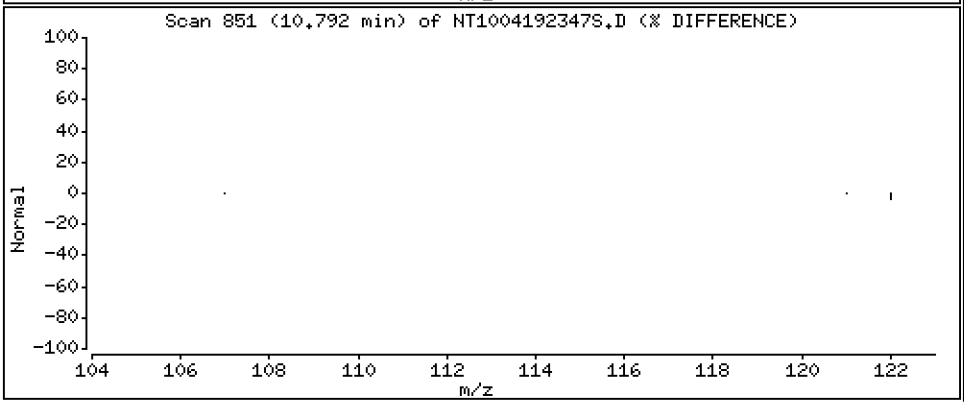












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192347S.D

Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

Volume Injected (uL): 1.0

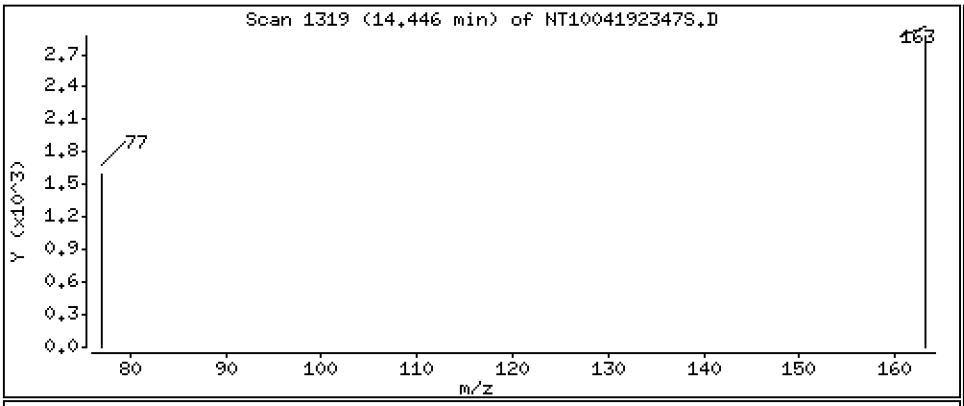
Operator: DSD

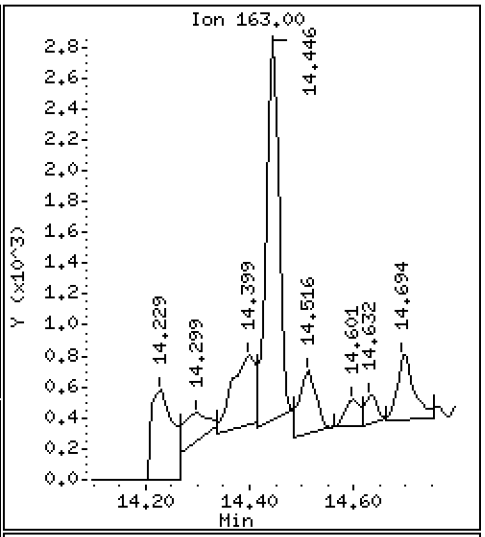
Column phase: ZB-5msi

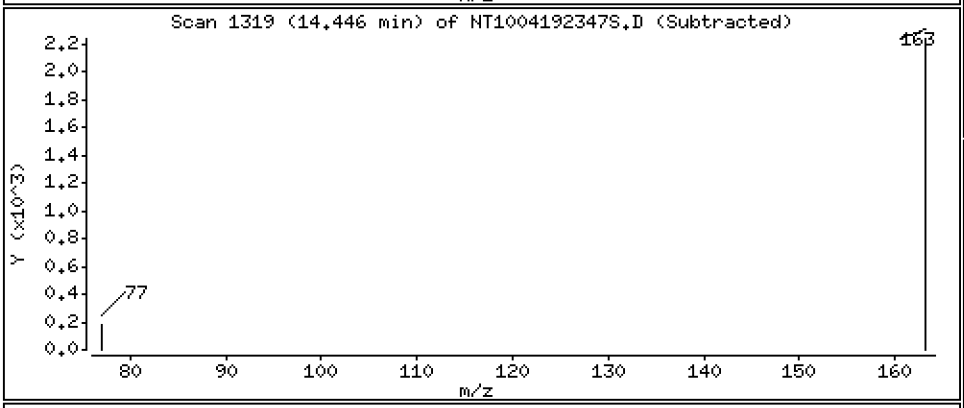
Column diameter: 0.25

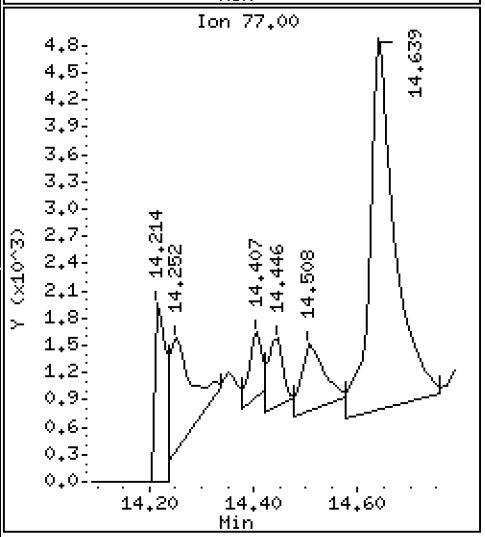
39 Dimethylphthalate

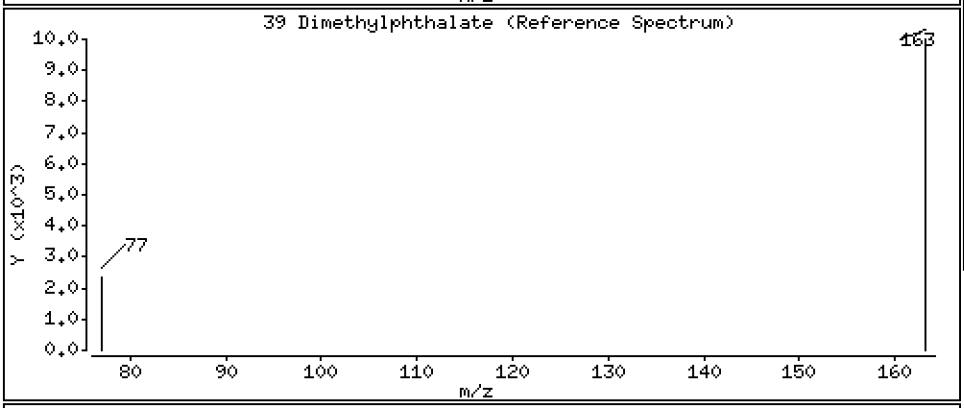
Concentration: 0.03926 ug/L

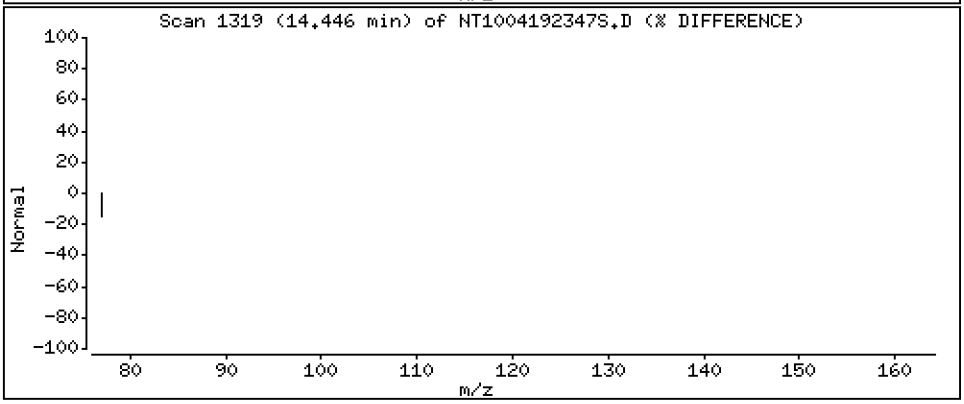












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192347S.D

Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

Volume Injected (uL): 1.0

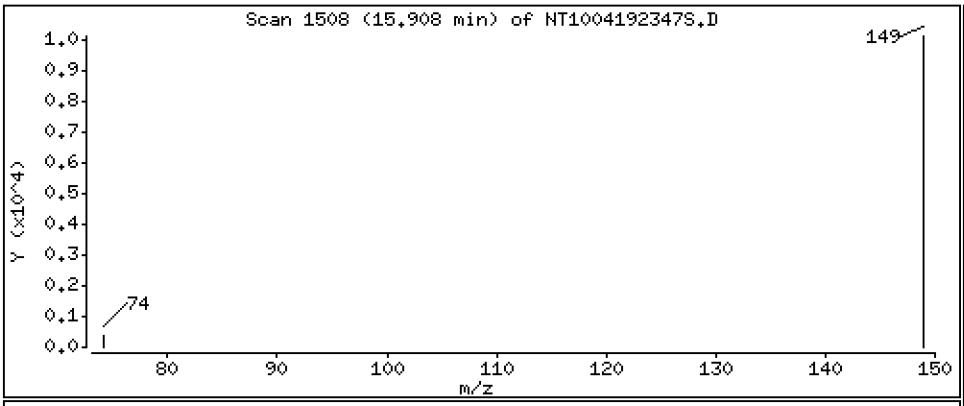
Operator: DSD

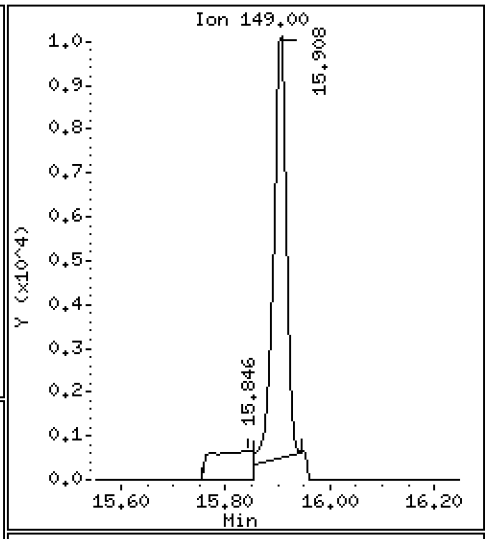
Column phase: ZB-5msi

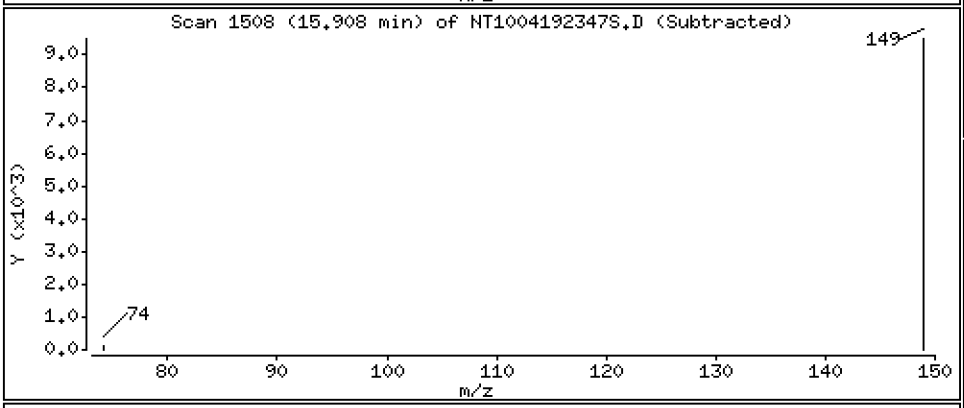
Column diameter: 0.25

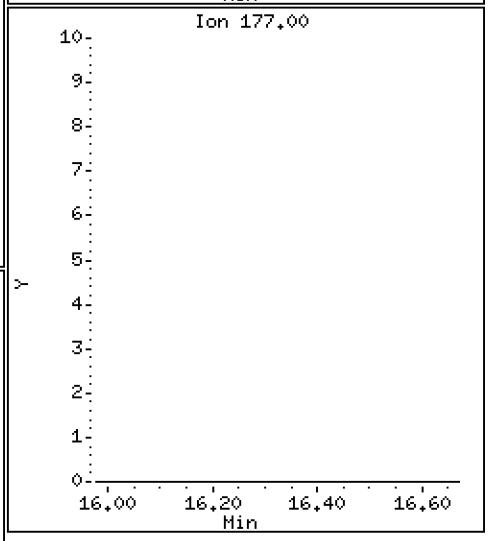
50 Diethylphthalate

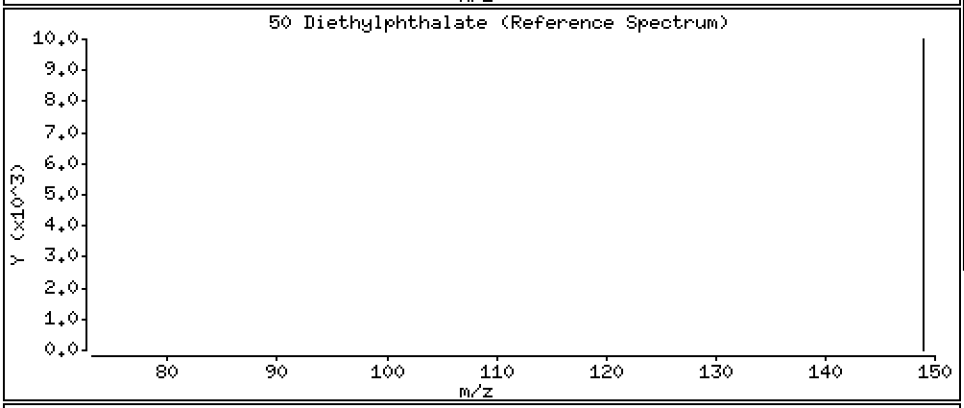
Concentration: 0.1571 ug/L

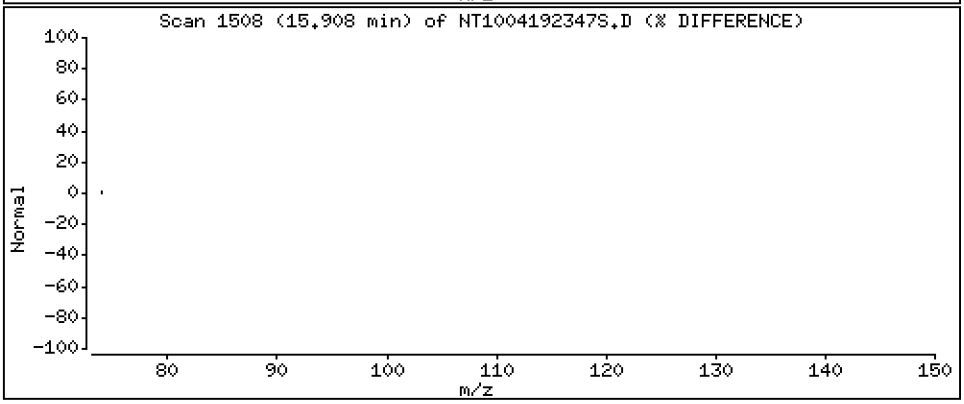












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192347S.D

Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

Volume Injected (uL): 1.0

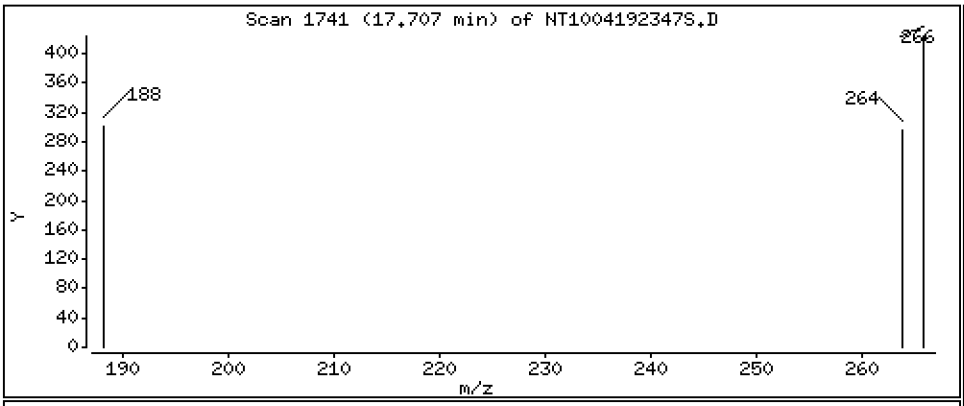
Operator: DSD

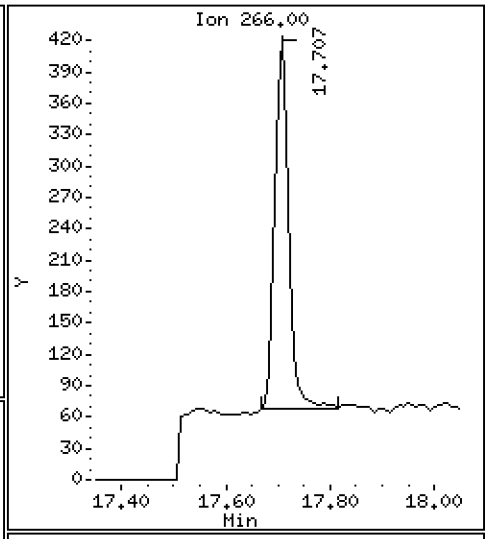
Column phase: ZB-5msi

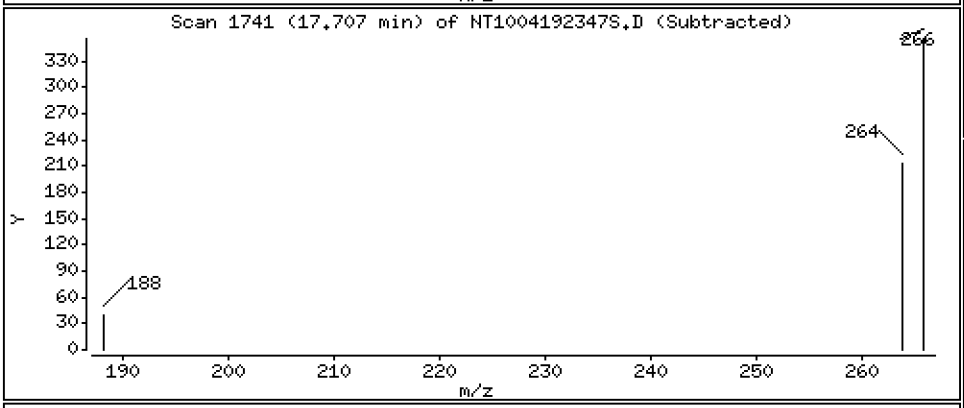
Column diameter: 0.25

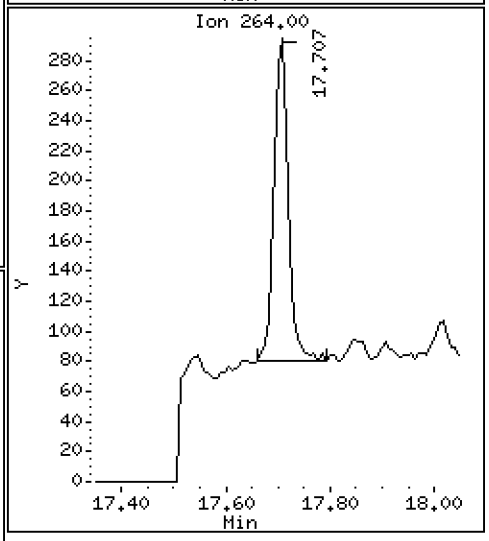
58 Pentachlorophenol

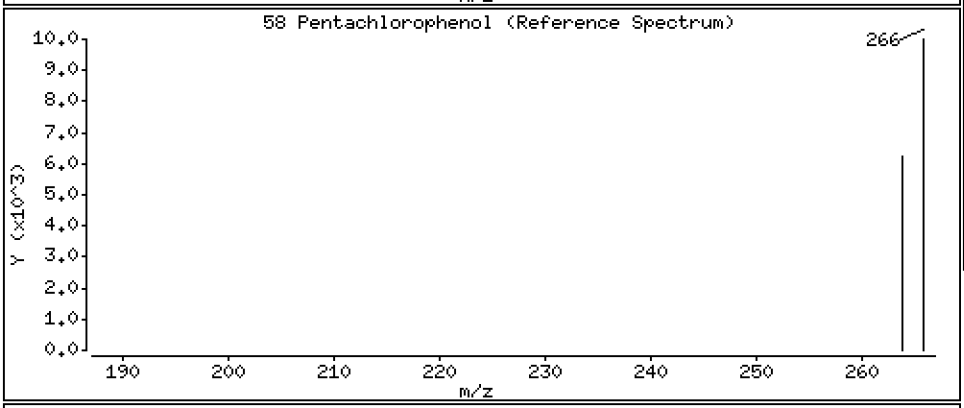
Concentration: 0.03084 ug/L

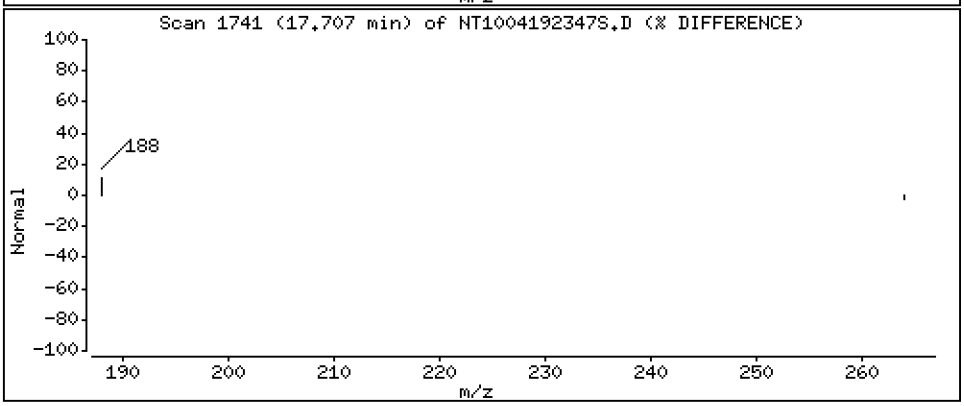












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192347S.D

Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

Volume Injected (uL): 1.0

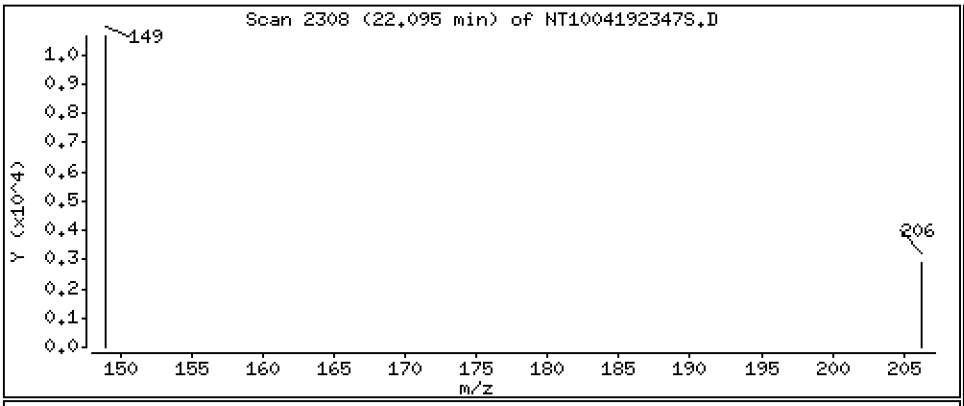
Operator: DSD

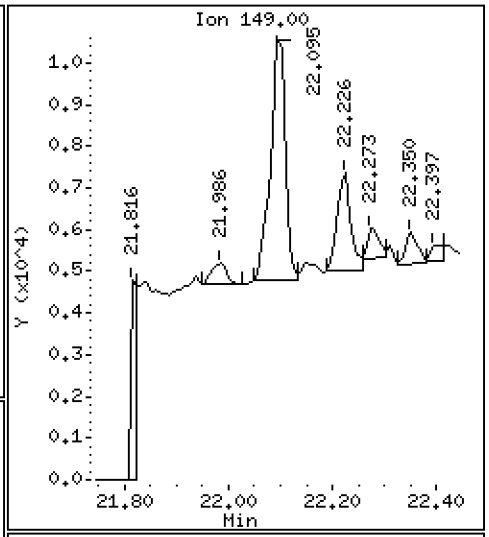
Column phase: ZB-5msi

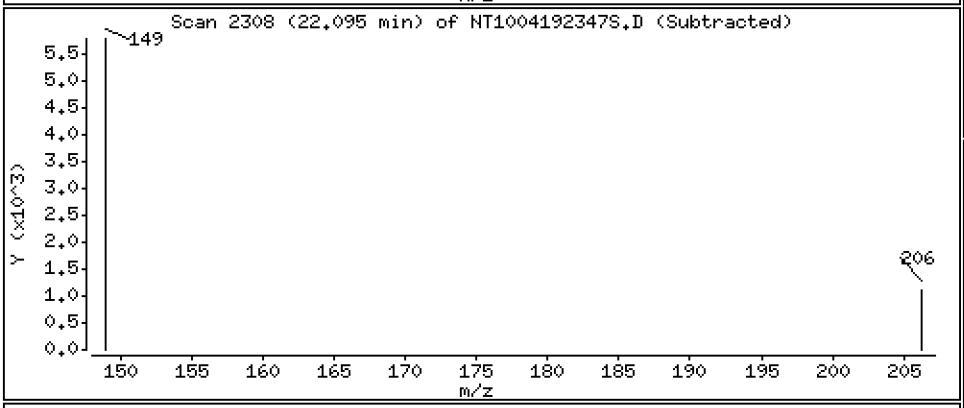
Column diameter: 0.25

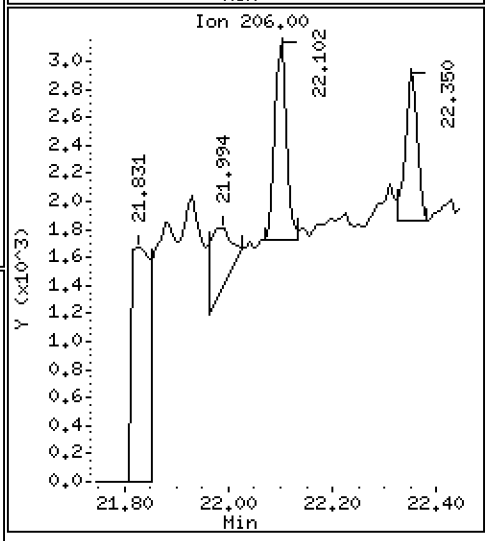
67 Butylbenzylphthalate

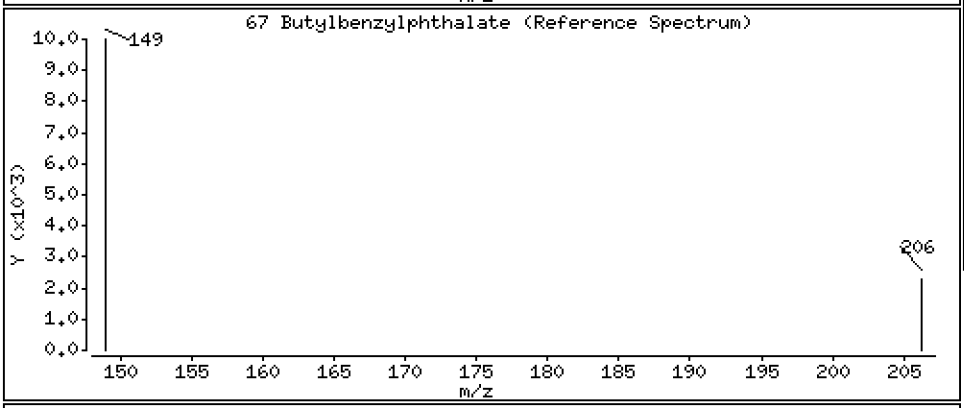
Concentration: 0.1211 ug/L

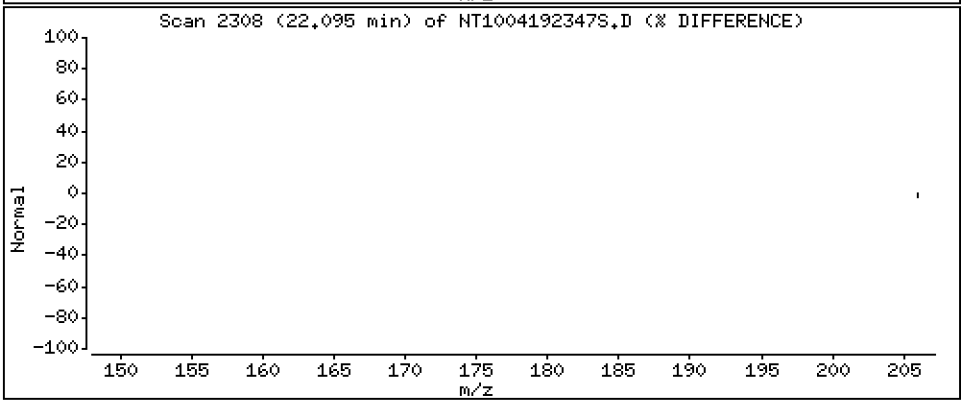












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192347S.D

Date : 20-APR-2023 16:34

Client ID:

Instrument: nt10.i

Sample Info: 23C0752-06

Volume Injected (uL): 1.0

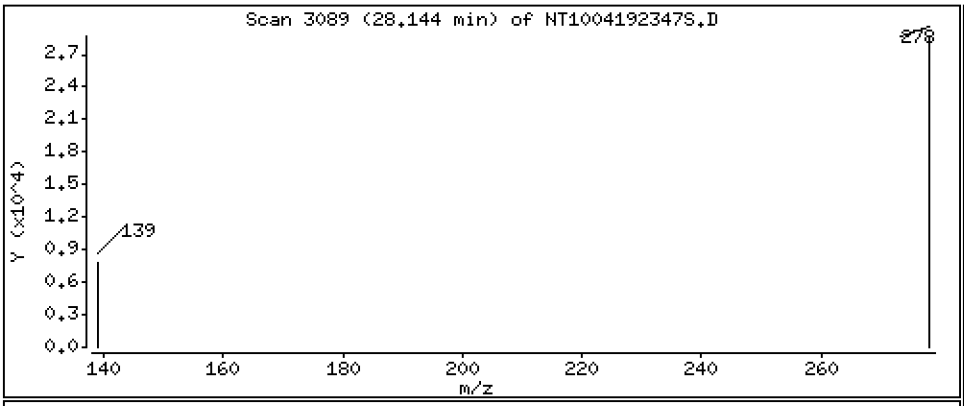
Operator: DSD

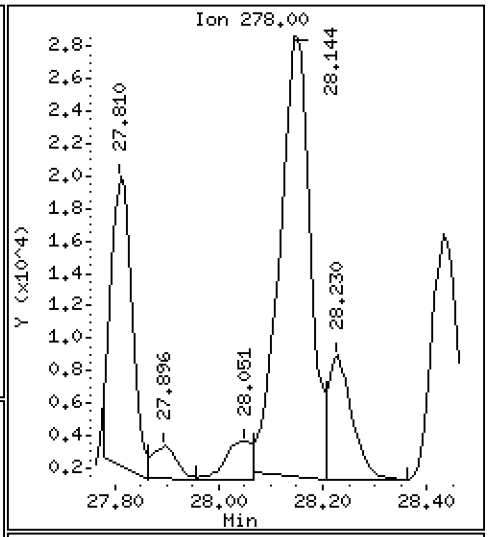
Column phase: ZB-5msi

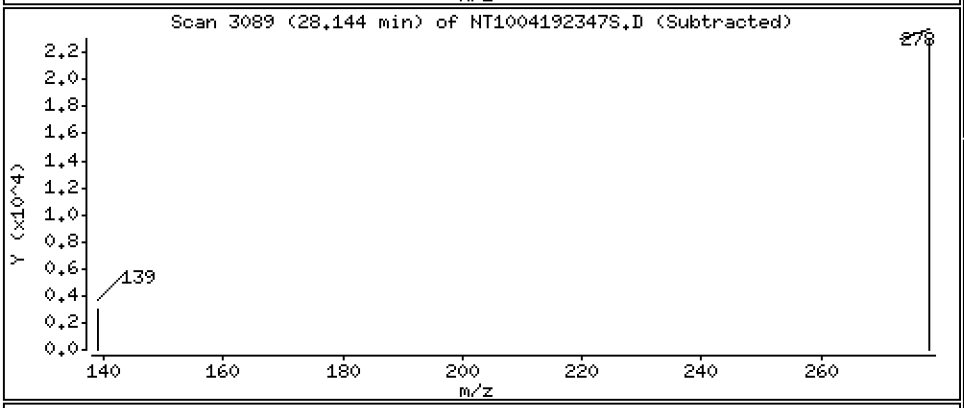
Column diameter: 0.25

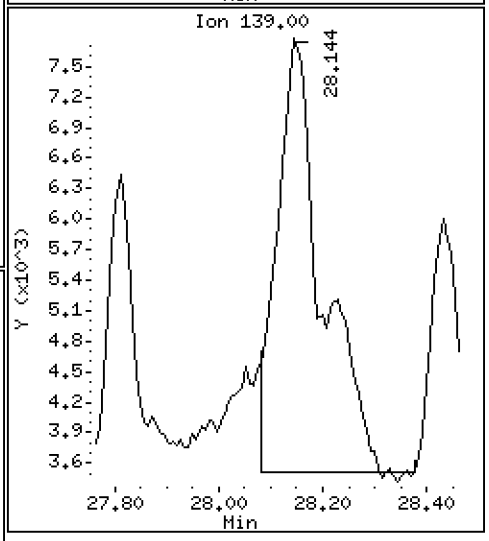
79 Dibenzo(a,h)anthracene

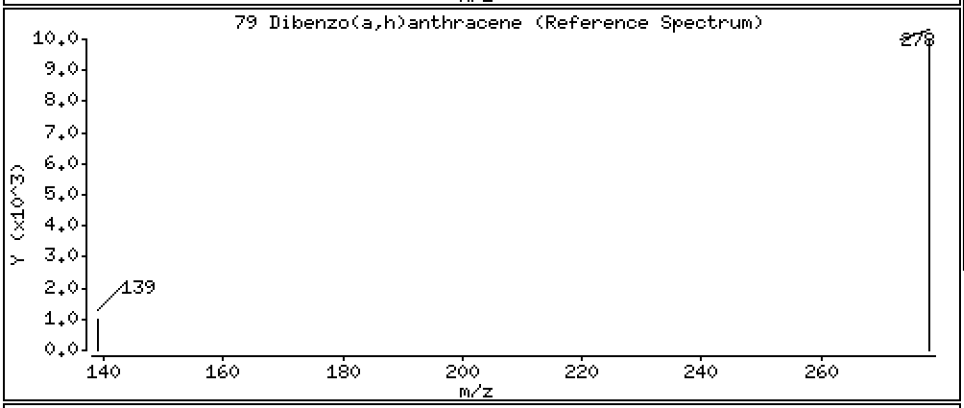
Concentration: 0.4549 ug/L

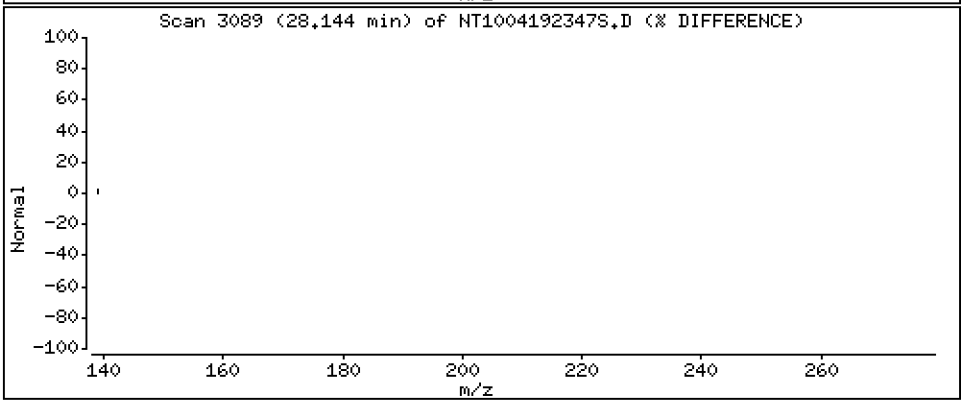












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192347S.D
Lab Smp Id: 23C0752-06
Inj Date : 20-APR-2023 16:34 MS Autotune Date: 16-JAN-2023 17:42
Operator : DSD Inst ID: nt10.i
Smp Info : 23C0752-06
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\SIMABN2.m
Meth Date : 21-Apr-2023 13:41 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.625	6.617	(0.750)	174273	3.33619	3.336(R)
3	Phenol	94	8.247	8.240	(0.933)	8729	0.12180	0.1218
7	1,3-Dichlorobenzene	146	8.765	8.766	(0.992)	167	0.00249	0.002490
* 8	1,4-Dichlorobenzene-d4	152	8.835	8.835	(1.000)	172260	4.00000	
9	1,4-Dichlorobenzene	146	8.866	8.859	(1.004)	494	0.00763	0.007631(M)
11	Benzyl alcohol	79	9.114	9.115	(1.032)	21540	0.51844	0.5184
12	1,2-Dichlorobenzene	146	9.215	9.216	(1.043)	202	0.00317	0.003173
13	2-Methylphenol	108	9.363	9.348	(1.060)	1322	0.02662	0.02662
15	4-Methylphenol	108	9.635	9.627	(1.090)	4117	0.07979	0.07979
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
22	2,4-Dimethylphenol	107	10.673	10.656	(0.944)	1601	0.02958	0.02958
24	Benzoic acid	105	10.792	10.809	(0.954)	23873	0.80441	0.8044
26	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
* 27	Naphthalene-d8	136	11.312	11.312	(1.000)	626211	4.00000	
30	Hexachlorobutadiene	225	Compound Not Detected.					
39	Dimethylphthalate	163	14.445	14.446	(0.968)	4028	0.03926	0.03926
* 42	Acenaphthene-d10	162	14.917	14.918	(1.000)	325138	4.00000	
50	Diethylphthalate	149	15.907	15.900	(1.066)	16703	0.15714	0.1571
54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
57	Hexachlorobenzene	284	Compound Not Detected.					

		QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
Compounds								
58	Pentachlorophenol	266	17.706	17.699	(0.986)	648	0.03084	0.03084
* 59	Phenanthrene-d10	188	17.962	17.947	(1.000)	633775	4.00000	
$ 66	Terphenyl-d14	244	21.149	21.142	(0.917)	333003	3.03182	3.032(R)
67	Butylbenzylphthalate	149	22.094	22.094	(0.958)	10742	0.12112	0.1211
* 69	Chrysene-d12	240	23.062	23.047	(1.000)	674106	4.00000	
* 77	Perylene-d12	264	25.617	25.594	(1.000)	771564	4.00000	
79	Dibenzo(a,h)anthracene	278	28.144	28.113	(1.099)	114933	0.45489	0.4549
90	N-Nitrosodimethylamine	74	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192347S.D
Lab Smp Id: 23C0752-06
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\SIMABN2.m
Misc Info:

Calibration Date: 20-APR-2023
Calibration Time: 08:57
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	128281	64141	256562	172260	34.28
27 Naphthalene-d8	458707	229354	917414	626211	36.52
42 Acenaphthene-d10	243296	121648	486592	325138	33.64
59 Phenanthrene-d10	433853	216927	867706	633775	46.08
69 Chrysene-d12	435413	217707	870826	674106	54.82
77 Perylene-d12	490854	245427	981708	771564	57.19

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.84	8.34	9.34	8.84	-0.00
27 Naphthalene-d8	11.31	10.81	11.81	11.31	-0.00
42 Acenaphthene-d10	14.92	14.42	15.42	14.92	-0.00
59 Phenanthrene-d10	17.95	17.45	18.45	17.96	0.08
69 Chrysene-d12	23.05	22.55	23.55	23.06	0.07
77 Perylene-d12	25.59	25.09	26.09	25.62	0.09

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

REVIEW SUMMARY FOR FILE - NT1004192347S.D

Lab ID: 23C0752-06
nt10.i, 20230419B.b\20230419B.b\SIMABN2.m,   20-APR-2023 16:34

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230419B.b/NT1004192335S.D

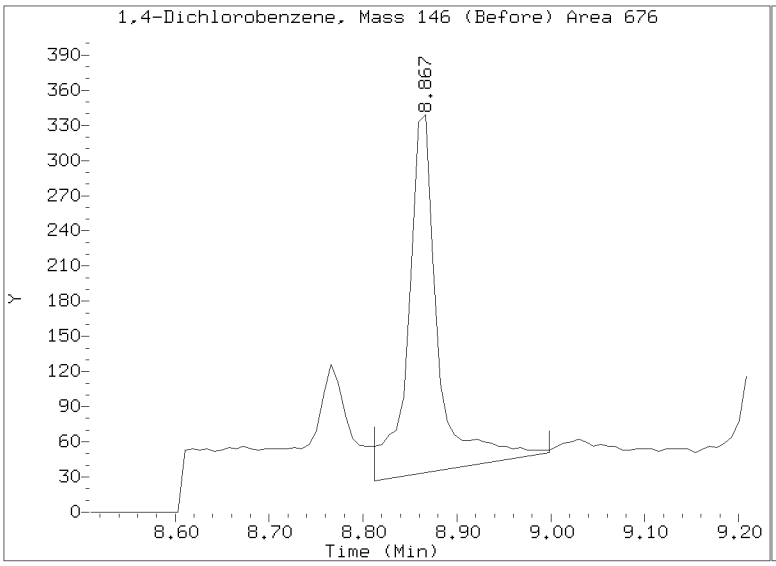
On Column LOD for nt10.i, 20230419B.b\SIMABN2.m, PSDDA.sub = 0.0000

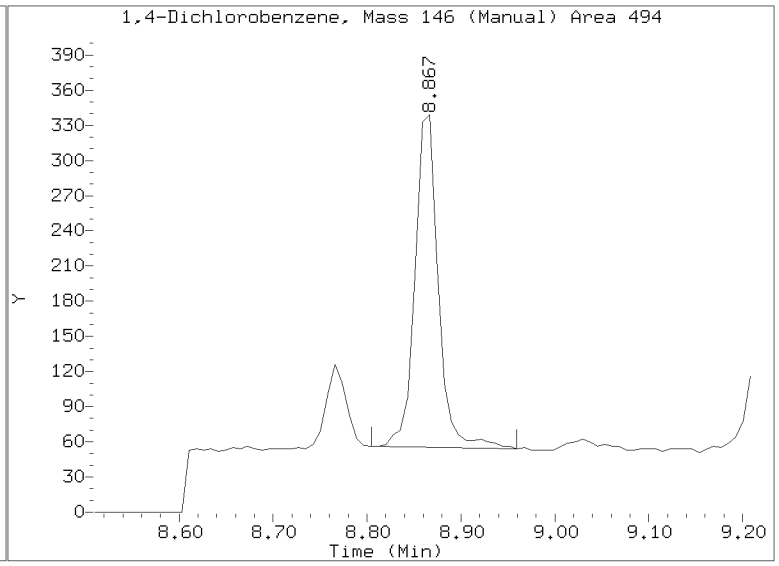
Exception: 1,2,4-Trichlorobenzene 0.0010

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230419B.b/20230419B.b/NT1004192347S.D
Injection Date: 20-APR-2023 16:34
Lab ID:23C0752-06 Client ID:
Report Date: 04/21/2023 14:05





APPROVED

By Deenay Dunmore at 2:36 pm, Apr 21, 2023

PREPARATION BATCH SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BLD0008 Batch Matrix: Solid
Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1026	23C0752-01	NT1004192341S.D	04/03/23 11:31	
LDW23-SS1125	23C0752-02	NT1004192342S.D	04/03/23 11:31	
LDW23-SS1132	23C0752-03	NT1004192343S.D	04/03/23 11:31	
LDW23-SS1810	23C0752-04	NT1004192344S.D	04/03/23 11:31	
LDW23-SS1809	23C0752-06	NT1004192347S.D	04/03/23 11:31	
Blank	BLD0008-BLK2	NT1004192337S.D	04/03/23 11:31	
LCS	BLD0008-BS2	NT1004192338S.D	04/03/23 11:31	
LCS Dup	BLD0008-BSD2	NT1004192339S.D	04/03/23 11:31	
LDW23-SS1810	BLD0008-MS2	NT1004192345S.D	04/03/23 11:31	
LDW23-SS1810	BLD0008-MSD2	NT1004192346S.D	04/03/23 11:31	
Reference	BLD0008-SRM2	NT1004192340S.D	04/03/23 11:31	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLD0008

Prepared using: EPA 3546 (Microwave)

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

Matrix: Solid Date Prepared: 04/03/23 Balance ID: B14646264 Set Up By: CD 4/3/23

WO Comments

23C0752: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

The following standards may be missing from this batch!

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

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

Lab Number & Container	% Solids	Initial (g) Target Dry: 10 (Wet) Actual	(REQ) GPC C/U (1:1) 1 2 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
23C0752-01 A	50.2	(19.90) 19.98	(1:1)	1mL	1 ____	0.5 ____	
23C0752-02 A	49.7	(20.14) 20.18	(1:1)	1mL	1 ____	0.5 ____	
23C0752-03 A	50.7	(19.74) 19.76	(1:1)	1mL	1 ____	0.5 ____	
23C0752-04 A	52.7	(18.97) 18.98	(1:1)	1mL	1 ____	0.5 ____	
23C0752-06 A	46.7	(21.40) 21.43	(1:1)	1mL	1 ____	0.5 ____	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 10 (Wet) Actual	(REQ) GPC C/U (1:1) 1 2 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BLD0008-BLK1	100.0	(10.00) 10.00	(1:1)	1mL	1 ____	0.5 ____	Use 5g Neutral Sodium Sulfate for Blanks
BLD0008-BS1	100.0	(10.00) 10.00	(1:1)	1mL	1 ____	0.5 ____	Use 5g Neutral Sodium Sulfate for Blanks
BLD0008-BSD1	100.0	(10.00) 10.00	(1:1)	1mL	1 ____	0.5 ____	Use 5g Neutral Sodium Sulfate for Blanks
BLD0008-MS1	52.7	(18.97) 18.97	(1:1)	1mL	1 ____	0.5 ____	Use 23C0752-04
BLD0008-MSD1	52.7	(18.97) 18.97	(1:1)	1mL	1 ____	0.5 ____	Use 23C0752-04
BLD0008-SRM1	100.0	~~(10.00)~~ (1.00) 1.00	(1:1)	1mL	1 ____	0.5 ____	Use K003477

+1g DI WATER

Client ID Verified By 04/03/23 Date

Preparation Reviewed By 4/18/23 Date

Extraction Date and Time 04/03/23 11:31

Printed: 4/3/2023 9:07:29AM

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLD0008

Prepared using: EPA 3546 (Microwave)

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

WO Comments

23C0752: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Prep Steps

Microwave
1 2 3
Φ4/Φ3/23
Analyst/Date

Pre-GPC KD
100°C
Exchange to Hexane
(add 10 mL to KD)
0 2 4 5 6
4/1/23
Analyst/Date

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

Post GPC KD
80-85°C
0 2 4 5 6
4/6/23
Analyst/Date

TurboVap
1 2 3 4 5
MRB 4/18/23
Analyst/Date

Water Wash
MRB 4/18/23
Analyst/Date

Reagents Used

Station/Reagent	Standard ID
Microwave Analyst: GT Date: Φ4/Φ3/23	
Anhydrous Sodium Sulfate	LΦΦ971
1:1 Methylene Chloride/Acetone	LΦΦ2244
Methylene Chloride	LΦΦ2621
Pre-Deactivated Glass Wool	LΦΦ1923
Pre GPC KD Analyst: SA Date: 4/1/23	
Pre-Deactivated Glass Wool	N/A
Anhydrous Sodium Sulfate	N/A
Methylene Chloride	K005281
Hexane	L001957
GPC Filter Prep Analyst: MRB Date: 4/5/23	
Methylene Chloride	K005281
GPC Filter	L001799
GPC Analyst: MRB Date: 4/5/23	
Methylene Chloride	L002621
GPC Calibration File	CLB0132
Post GPC KD Analyst: CR Date: 4/6/23	
Methylene Chloride	LΦΦ5284
Vialing Analyst: MRB Date: 4/18/23	
Methylene Chloride	L002621

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate 100/150µg/mL	A L001153 Exp Date: 8/1/2023	50µL	GT	
Full List Spike (Freezer) 100µg/mL	7 L001812 (V) Exp LΦΦ1781 Date: 8/4/2023	50µL	GT	
Base Spike 200µg/mL	56 L001812 (V) Exp LΦΦ1778 Date: 8/24/2023	50µL	GT	
Acid Spike 100/200µg/mL	38 L001812 (V) Exp LΦΦ1779 Date: 8/24/2023	50µL	GT	

MANUALLY ENTER EXPIRATION DATES!

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

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

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLD0008

Prepared using: EPA 3546 (Microwave)

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

WO Comments

23C0752: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

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

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

Extraction Parameter: SVOA Extraction Batch ~~BLC0852~~ BLD0008

Total Solids Batch: ~~NA BLC0852~~ Work Order(s): 23C0752

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
[X] No Anomalies (standard soil/wet sediment/sand/gravel)= 01-07	CR 3/31/23
[X] Standing Water Decanted (Not shared)= 01-07	CR 3/31/23
[ ] Standing Water Homogenized (Shared samples)=	
[ ] Clay/Clumps (Difficult to homogenize)=	
[ ] Rocks (%+size)?	
[ ] Organics (Leaves/sticks/grass)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Received in 32oz jar(s)=Homogenized in Pyrex dish=	
[X] Previously Frozen = 01-07	CR 3/31/23
[ ] Other (Details)=	
Aqueous:	
[ ] No Anomalies	
[ ] Turbid/Color=	
[ ] Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
[ ] Emulsions (%)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Other (Details)=	
[ ] Received in 1.0L Bottle(s)=No Bottle Rinse=	
[X] Other Notes/Comments= (Note problems, concerns, corrective actions).	
-752 06 went dry in turbo tube in fridge	CMR3 4/18/23
[X] Share Samples Y / (N)	CR 3/31/23
[X] Multiple Jars Y / (N)	CR 3/31/23
[ ] Sample Pre-Screens indicate analyte activity=	
[ ] Sample weights/volumes reduced based on Pre-Screen=	

BLD0008/024/025 23C0752/702

Date:2023-04-05,2:07:29 PM
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Method File:E:\GPC2_InHouse.mtd

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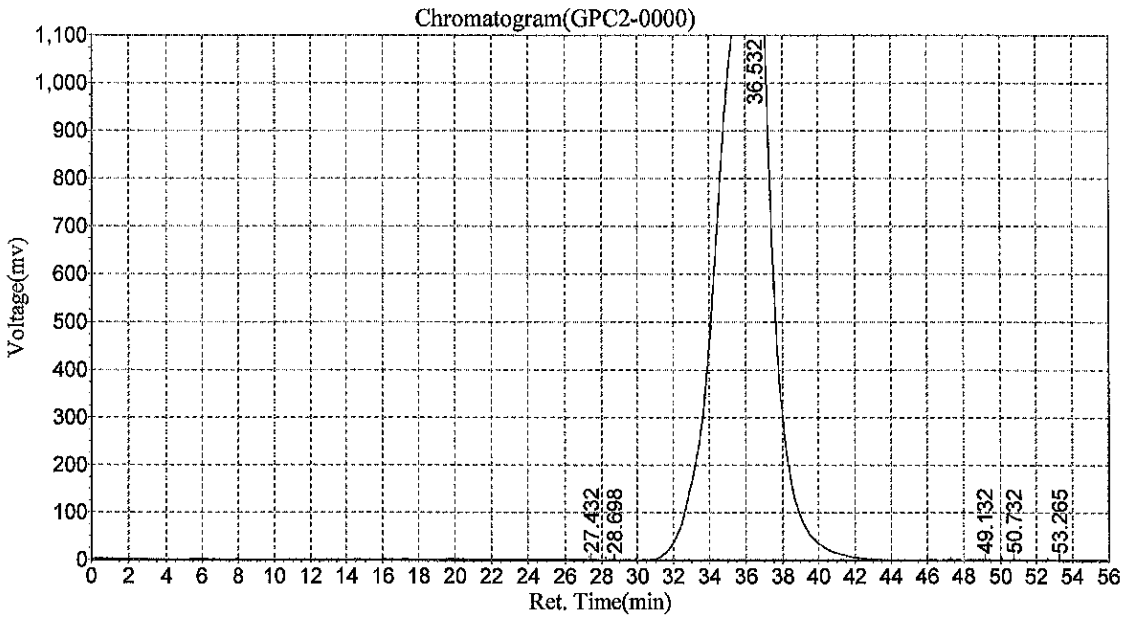
Date/Time2023-04-05,2:07:29 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		27.432	2212.513	104786.484	0.0393
2		28.698	2528.385	151863.281	0.0570
3		36.532	1243140.250	265834608.000	99.7392
4		49.132	1433.380	146479.156	0.0550
5		50.732	2078.285	186119.781	0.0698
6		53.265	1485.718	105929.484	0.0397
Total			1252878.530	266529786.188	100.000

Ingredient Table

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

BLD0008/024/025 23C0752/702

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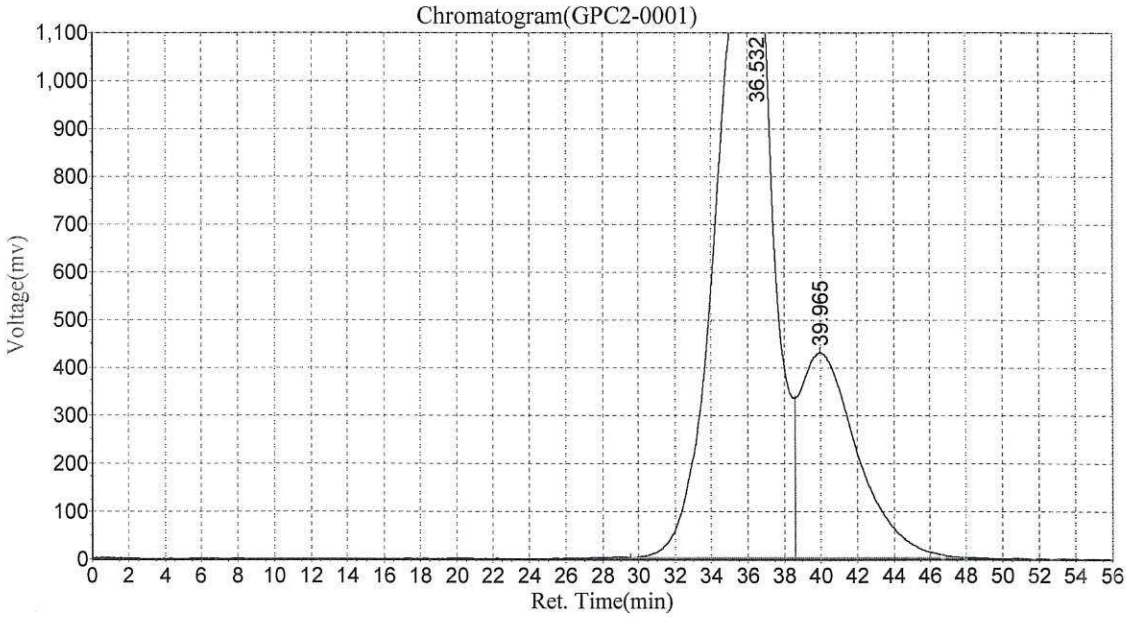

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		36.532	1243930.875	280810752.000	75.2006
2		39.965	427112.594	92604872.000	24.7994
Total			1671043.469	373415624.000	100.000

Ingredient Table

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

BLD0008/024/025 23C0752/702

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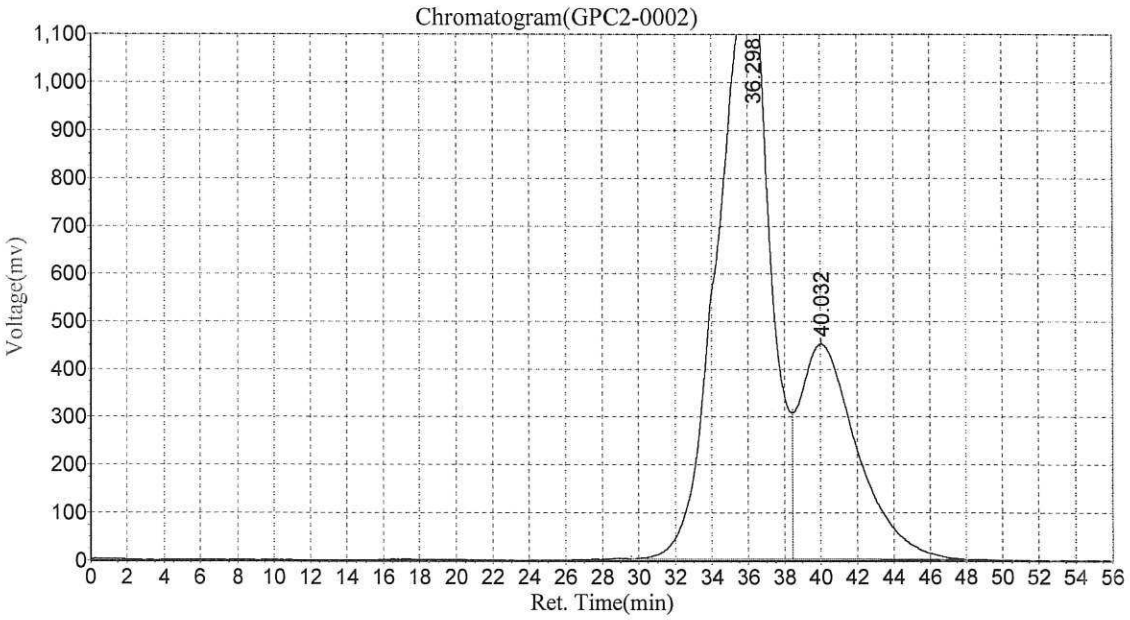

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		36.298	1216545.875	245591648.000	71.4086
2		40.032	449230.969	98332960.000	28.5914
Total			1665776.844	343924608.000	100.000

Ingredient Table

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

BLD0008/024/025 23C0752/702

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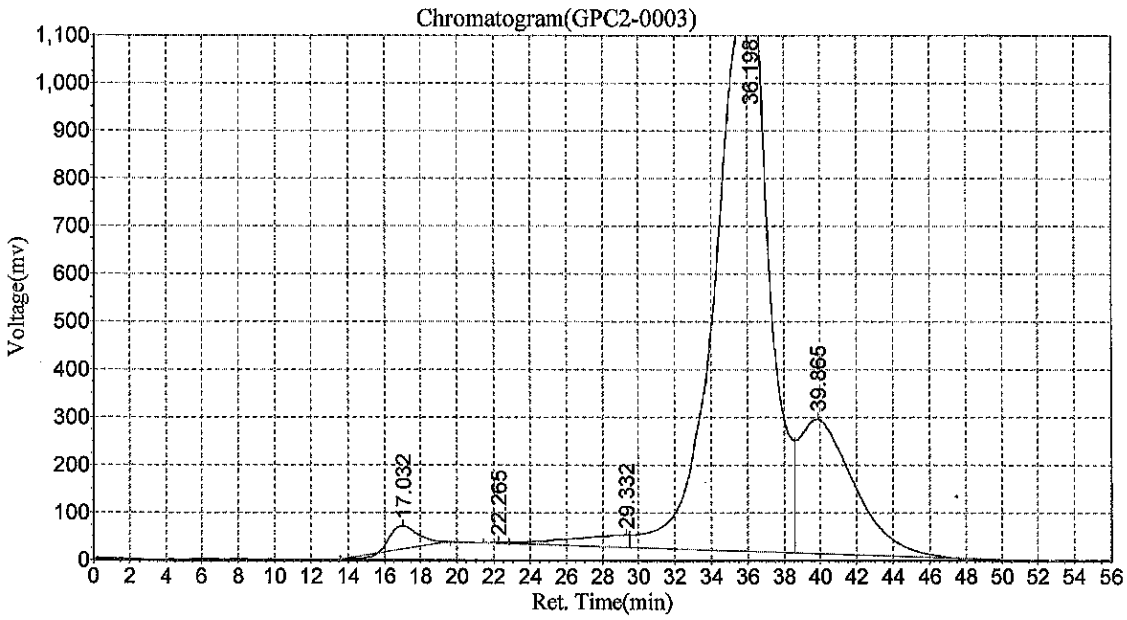

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.032	49684.285	5131232.500	1.6476
2		22.265	2552.654	138112.719	0.0443
3		29.332	27387.266	5934594.000	1.9056
4		36.198	1174724.000	240144416.000	77.1091
5		39.865	283469.031	60086404.000	19.2934
Total			1537817.236	311434759.219	100.000

Ingredient Table

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

MS01

BLD0008/024/025 23C0752/702

Date:2023-04-05,5:58:25 PM
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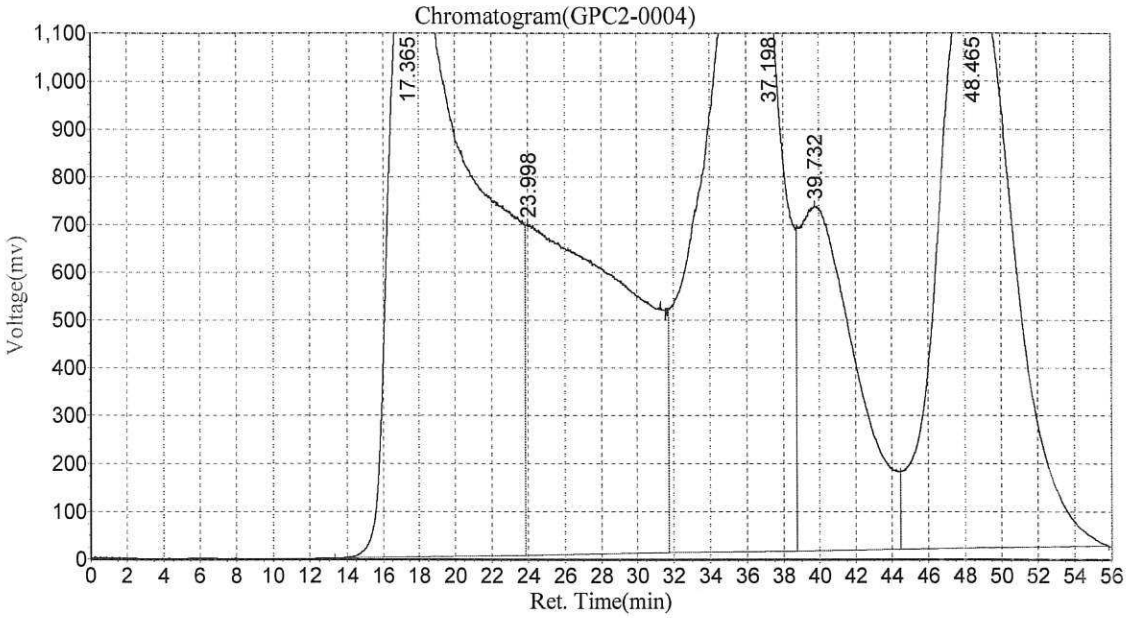

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	1248078.000	443508128.000	27.3293
2	Collect BAN	23.998	691656.813	281457696.000	17.3436
3		37.198	1232612.250	397493664.000	24.4938
4		39.732	718960.250	156363360.000	9.6352
5		48.465	1196055.125	344009504.000	21.1981
Total			5087362.438	1622832352.000	100.000

Ingredient Table

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

BLD0008/024/025 23C0752/702

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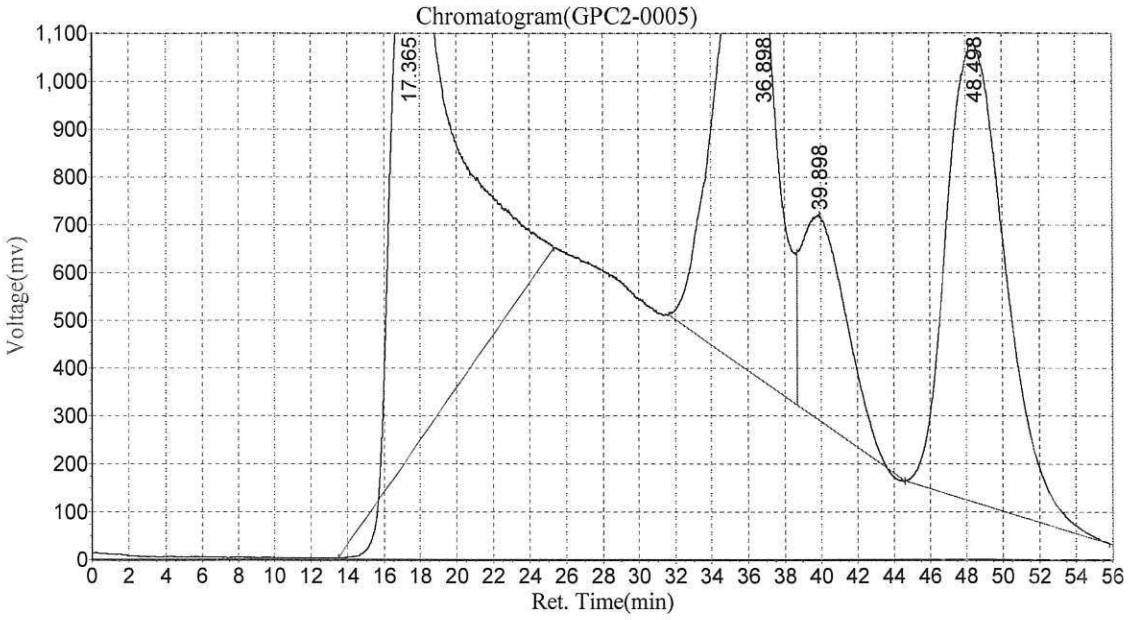

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	1037963.813	270786912.000	35.0606
2		36.898	878030.813	212784608.000	27.5507
3		39.898	429192.438	72742160.000	9.4184
4		48.498	957952.250	216025808.000	27.9703
Total			3303139.313	772339488.000	100.000

Ingredient Table

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

BLD0008/024/025 23C0752/702

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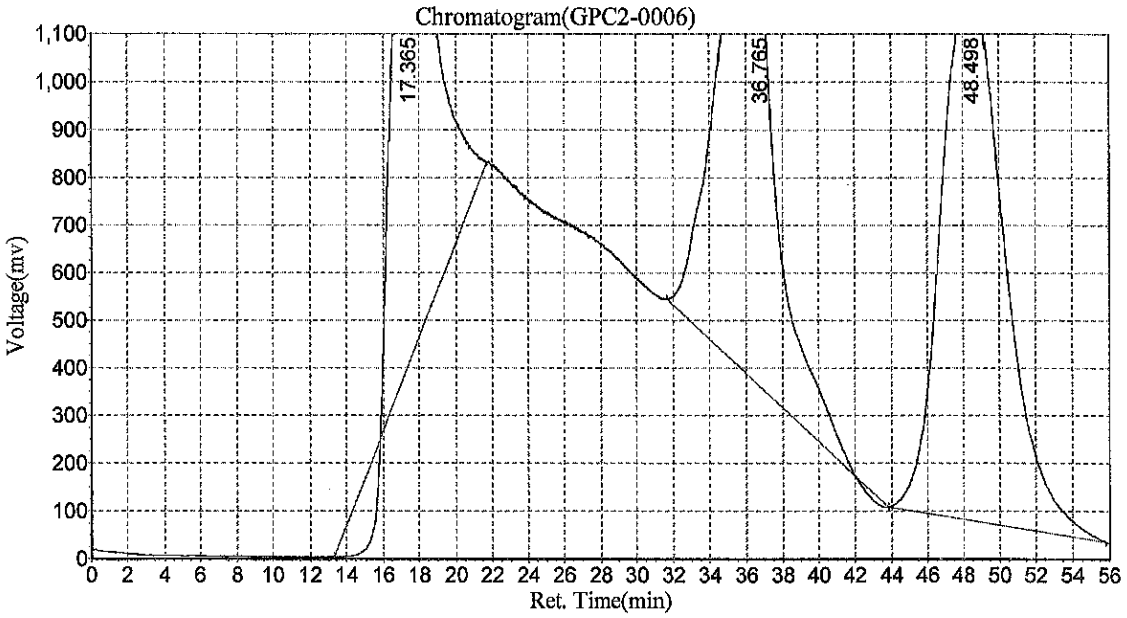

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	851105.938	153270880.000	23.8206
2		36.765	886841.063	217937760.000	33.8709
3		48.498	1095364.000	272228832.000	42.3085
Total			2833311.000	643437472.000	100.000

Ingredient Table

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

BLD0008/024/025 23C0752/702

Date:2023-04-05,8:51:41 PM
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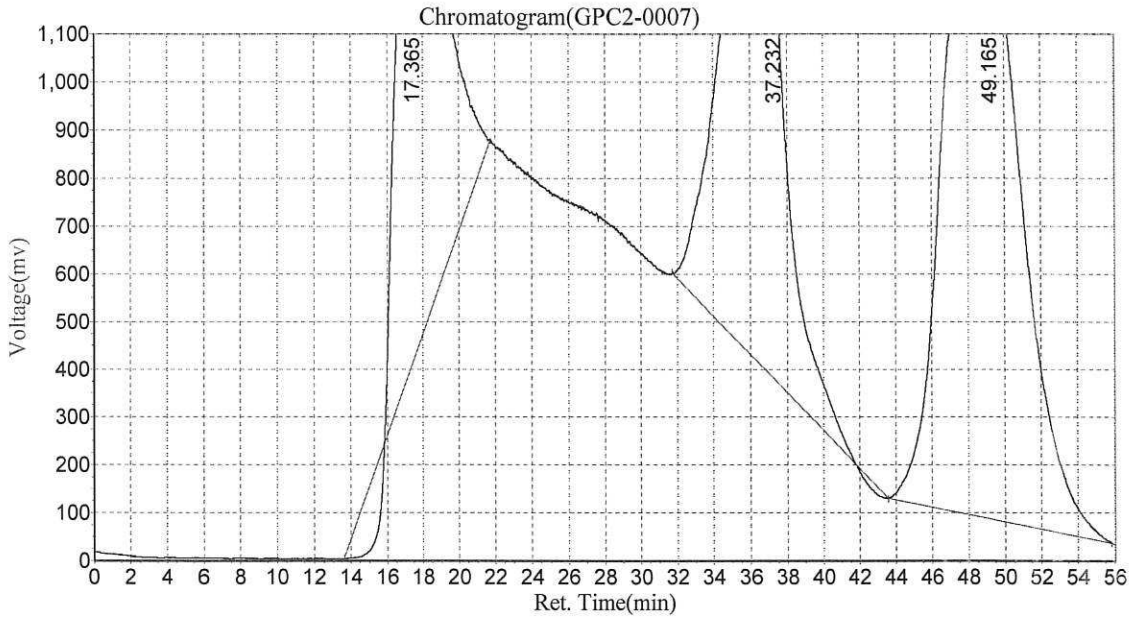
Analyst£°NRB
Date/Time2023-04-05,8:51:42 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	845361.188	169360320.000	22.0477
2		37.232	868575.875	232466272.000	30.2629
3		49.165	1160799.125	366328960.000	47.6894
Total			2874736.188	768155552.000	100.000

Ingredient Table

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

BLD0008/024/025 23C0752/702

Date:2023-04-05,9:49:22 PM
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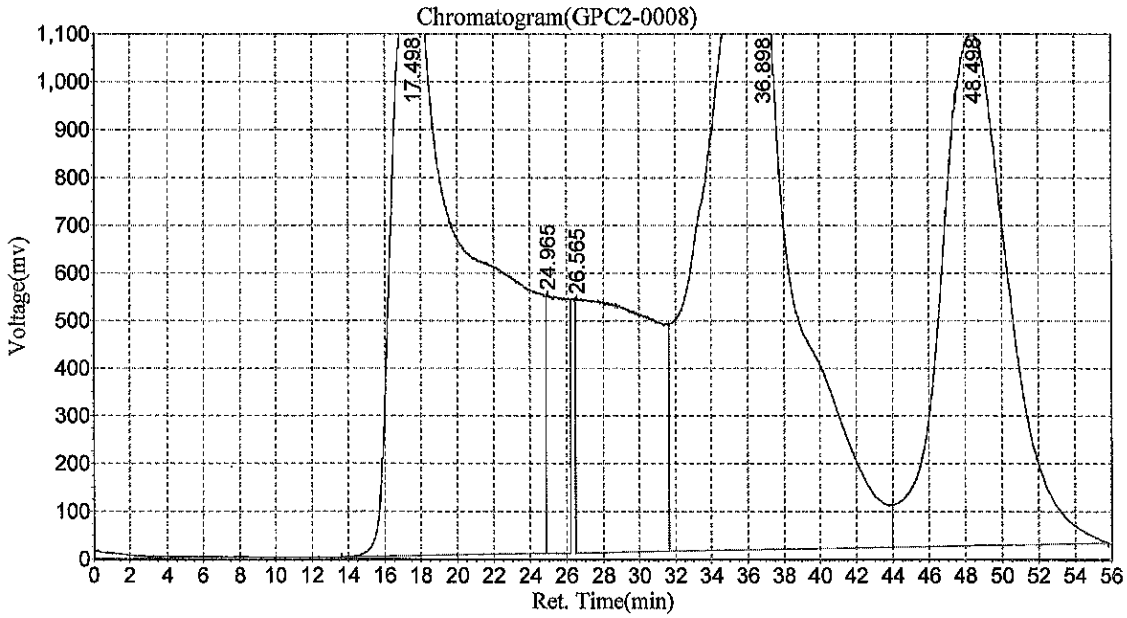
Method File:E:\GPC2_InHouse.mtd

Analyst£°NRB
Date/Time2023-04-05,9:49:23 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.498	1244825.000	402966880.000	30.2083
2		24.965	539580.688	43826920.000	3.2855
3		26.565	530852.688	156209312.000	11.7102
4		36.898	1226800.000	458694240.000	34.3859
5		48.498	1069649.875	272264672.000	20.4102
Total			4611708.250	1333962024.000	100.000

Ingredient Table

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

BLD0008/024/025 23C0752/702

Date:2023-04-05,10:47:11 PM
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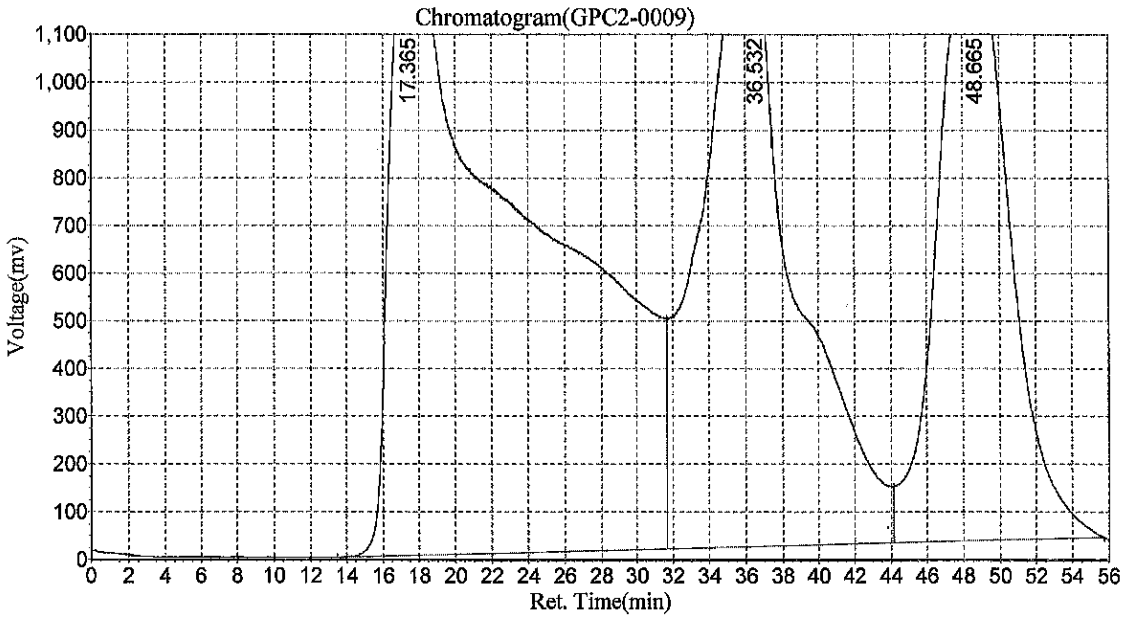
Method File:E:\GPC2_InHouse.mtd

Analyst£°NRB
Date/Time2023-04-05,10:47:11 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	1243764.250	716302592.000	47.5197
2		36.532	1218768.000	454787552.000	30.1707
3		48.665	1185792.000	336289856.000	22.3096
Total			3648324.250	1507380000.000	100.000

Ingredient Table

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

BLD0008/024/025 23C0752/702

Date:2023-04-05,11:44:52 PM
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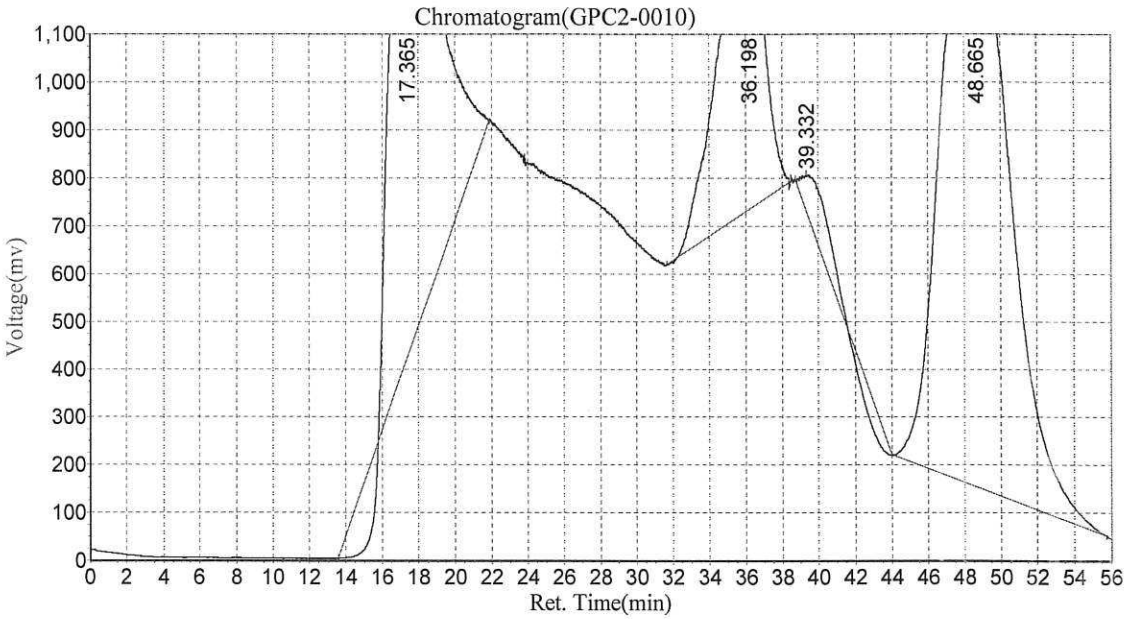
Method File:E:\GPC2_InHouse.mtd

Analyst£°NRB
Date/Time2023-04-05,11:44:52 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	833633.188	169238608.000	28.8284
2		36.198	513652.344	103550736.000	17.6390
3		39.332	75084.914	6352079.500	1.0820
4		48.665	1087118.125	307913312.000	52.4505
Total			2509488.570	587054735.500	100.000

Ingredient Table

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

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLE0140	Cleanup Type:	GPC
Cleanup Method:	EPA 3640A GPC Cleanup 1:1	Analysis:	EPA 8270E-SIM

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1809	23C0752-06	NT1004192347S.D	04/18/2023	
Matrix Spike Dup	BLD0008-MSD2	NT1004192346S.D	04/18/2023	
Matrix Spike	BLD0008-MS2	NT1004192345S.D	04/18/2023	
LCS Dup	BLD0008-BSD2	NT1004192339S.D	04/18/2023	
LCS	BLD0008-BS2	NT1004192338S.D	04/18/2023	
Blank	BLD0008-BLK2	NT1004192337S.D	04/18/2023	
Reference	BLD0008-SRM2	NT1004192340S.D	04/18/2023	
LDW23-SS1810	23C0752-04	NT1004192344S.D	04/18/2023	
LDW23-SS1132	23C0752-03	NT1004192343S.D	04/18/2023	
LDW23-SS1125	23C0752-02	NT1004192342S.D	04/18/2023	
LDW23-SS1026	23C0752-01	NT1004192341S.D	04/18/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLE0140

Matrix: Solid **Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1** **Check Standard: CLC0092-GPC2** **Printed: 5/15/2023 2:41:19PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23C0752-01	A	LDW23-SS1026	A 01	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	4/18/2023	NRB	
23C0752-01	A	LDW23-SS1026	A 02	1	1	8270E-SIM Dual Scan SVOC	4/18/2023	NRB	
23C0752-02	A	LDW23-SS1125	A 01	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	4/18/2023	NRB	
23C0752-02	A	LDW23-SS1125	A 02	1	1	8270E-SIM Dual Scan SVOC	4/18/2023	NRB	
23C0752-03	A	LDW23-SS1132	A 02	1	1	8270E-SIM Dual Scan SVOC	4/18/2023	NRB	
23C0752-03	A	LDW23-SS1132	A 01	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	4/18/2023	NRB	
23C0752-04	A	LDW23-SS1810	A 02	1	1	8270E-SIM Dual Scan SVOC	4/18/2023	NRB	
23C0752-04	A	LDW23-SS1810	A 01	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	4/18/2023	NRB	
23C0752-06	A	LDW23-SS1809	A 01	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	4/18/2023	NRB	
23C0752-06	A	LDW23-SS1809	A 02	1	1	8270E-SIM Dual Scan SVOC	4/18/2023	NRB	
BLD0008-BLK1	-	Blank	-	1	1	-	4/18/2023	NRB	
BLD0008-BLK2	-	Blank	-	1	1	-	4/18/2023	NRB	
BLD0008-BS1	-	LCS	-	1	1	-	4/18/2023	NRB	
BLD0008-BS2	-	LCS	-	1	1	-	4/18/2023	NRB	
BLD0008-BSD1	-	LCS Dup	-	1	1	-	4/18/2023	NRB	
BLD0008-BSD2	-	LCS Dup	-	1	1	-	4/18/2023	NRB	
BLD0008-MS1	-	Matrix Spike	-	1	1	-	4/18/2023	NRB	
BLD0008-MS2	-	Matrix Spike	-	1	1	-	4/18/2023	NRB	
BLD0008-MSD1	-	Matrix Spike Dup	-	1	1	-	4/18/2023	NRB	
BLD0008-MSD2	-	Matrix Spike Dup	-	1	1	-	4/18/2023	NRB	
BLD0008-SRM1	-	Reference	-	1	1	-	4/18/2023	NRB	
BLD0008-SRM2	-	Reference	-	1	1	-	4/18/2023	NRB	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLE0140

Matrix: Solid **Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1** **Check Standard: CLC0092-GPC2** **Printed: 5/15/2023 2:41:19PM**

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

Form I

METHOD BLANK DATA SHEET

EPA 8270E-SIM

Blank

Laboratory:	Analytical Resources, LLC			SDG:	23C0752
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Solid	Laboratory ID:	BLD0008-BLK2	File ID:	NT1004192337S.D
Sampled:	N/A	Prepared:	04/03/23 11:31	Analyzed:	04/20/23 10:13
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	10 g / 1 mL
Batch:	BLD0008	Sequence:	SLD0302	Calibration:	GC00049
Instrument:	NT10	Column:	ZB-5MSi	Cleanups:	GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
106-46-7	1,4-Dichlorobenzene	1	5.0	U	0.6	5.0
95-50-1	1,2-Dichlorobenzene	1	5.0	U	0.7	5.0
100-51-6	Benzyl Alcohol	1	20.0	U	2.5	20.0
65-85-0	Benzoic acid	1	100	U	13.4	100
105-67-9	2,4-Dimethylphenol	1	20.0	U	2.2	20.0
120-82-1	1,2,4-Trichlorobenzene	1	5.0	U	2.7	5.0
86-30-6	N-Nitrosodiphenylamine	1	5.0	U	1.3	5.0
87-86-5	Pentachlorophenol	1	20.0	U	2.1	20.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
2-Fluorophenol	750.00	379	50.6	27 - 120	
p-Terphenyl-d14	500.00	277	55.4	37 - 120	

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Date : 20-APR-2023 10:13

Client ID:

Instrument: nt10.i

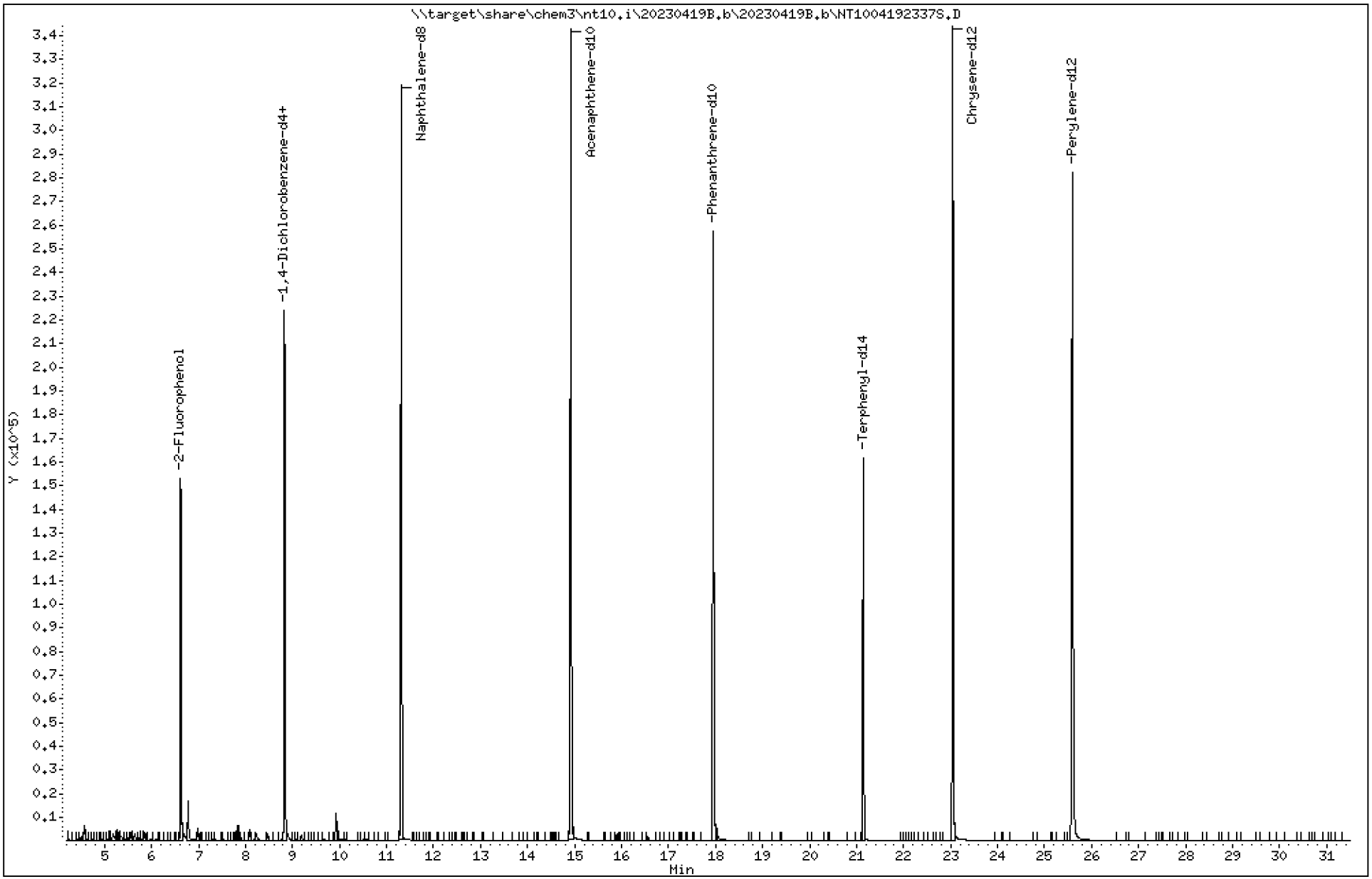
Sample Info: BLD0008-BLK2

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 20-APR-2023 10:13

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BLK2

Volume Injected (uL): 1.0

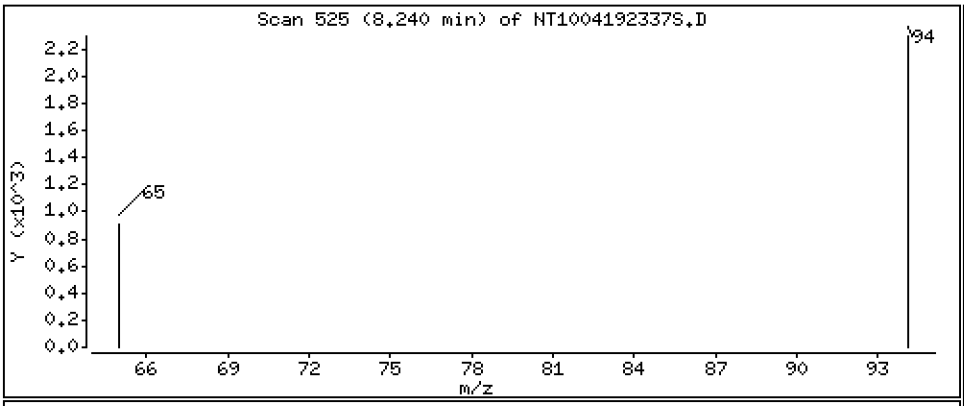
Operator: DSD

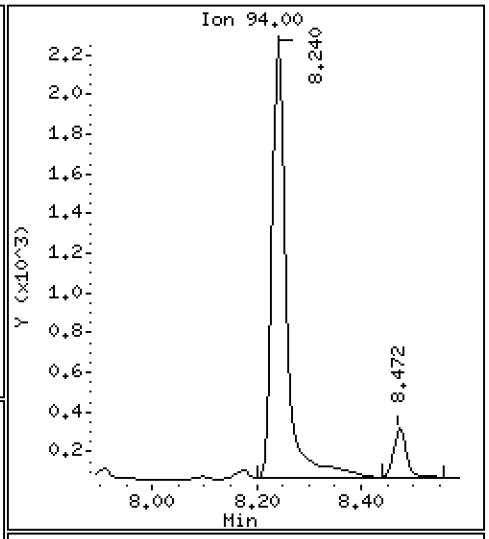
Column phase: ZB-5msi

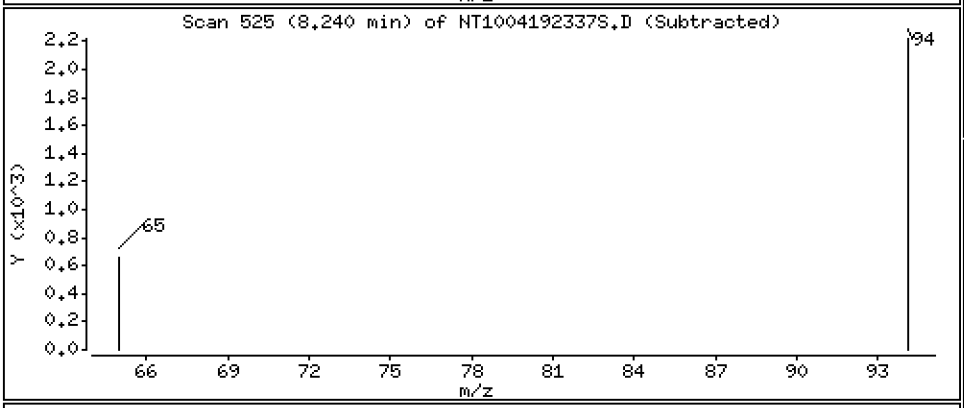
Column diameter: 0.25

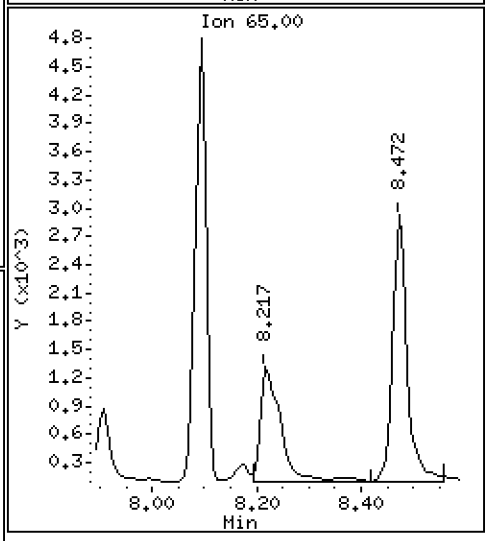
3 Phenol

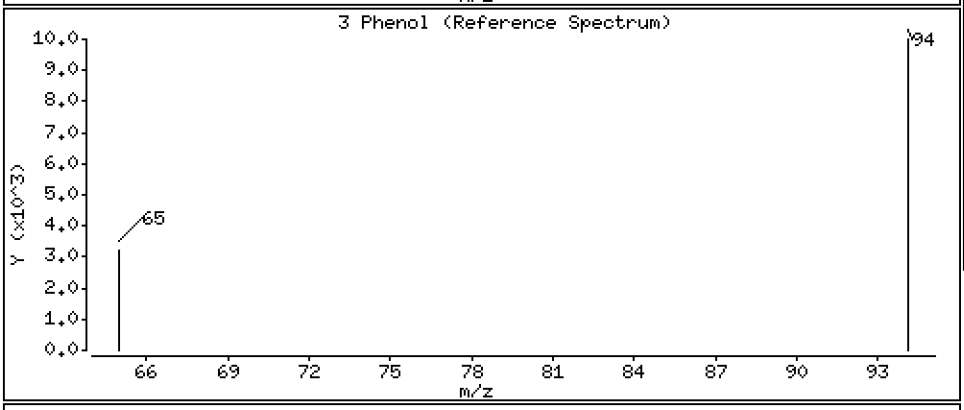
Concentration: 0.07037 ug/L

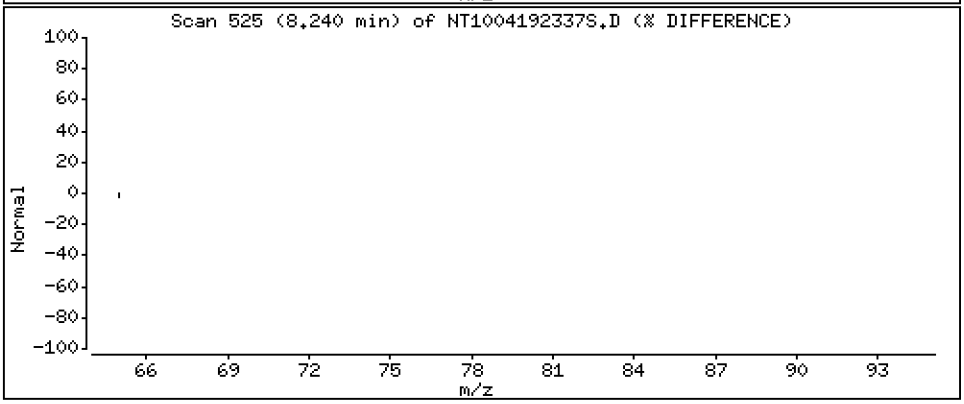












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Date : 20-APR-2023 10:13

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BLK2

Volume Injected (uL): 1.0

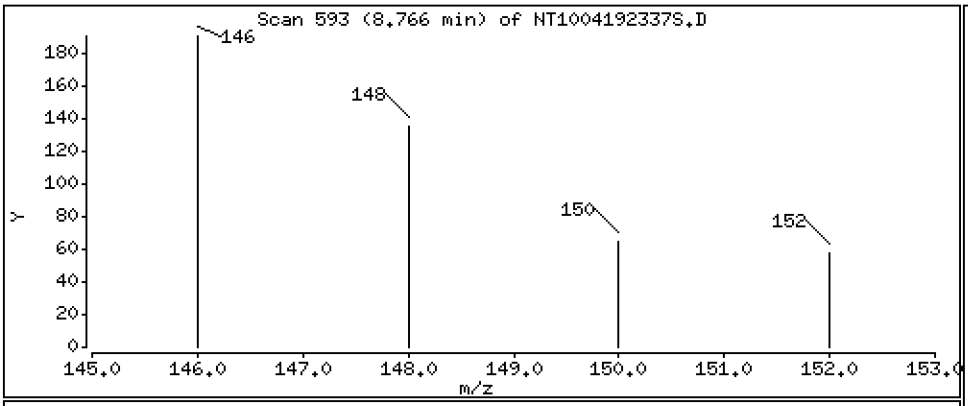
Operator: DSD

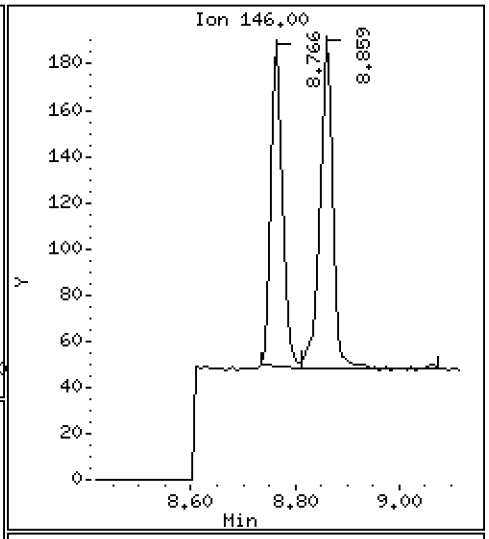
Column phase: ZB-5msi

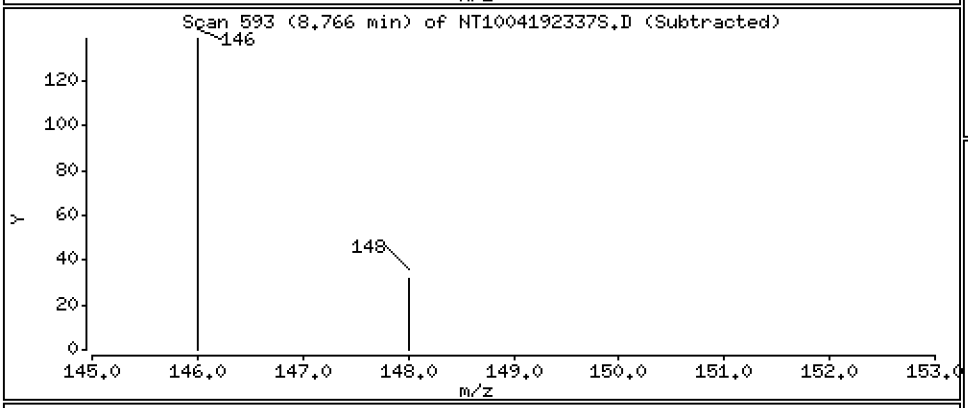
Column diameter: 0.25

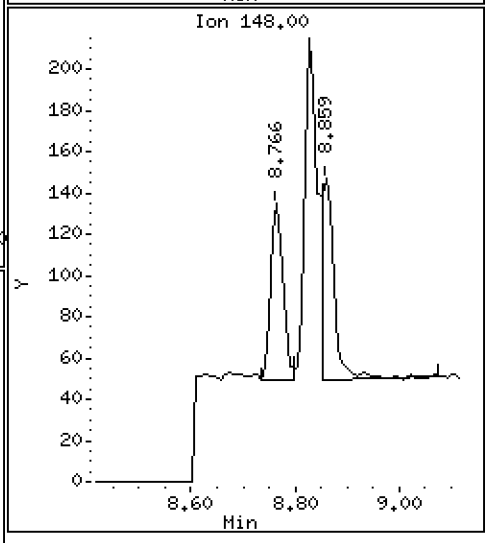
7 1,3-Dichlorobenzene

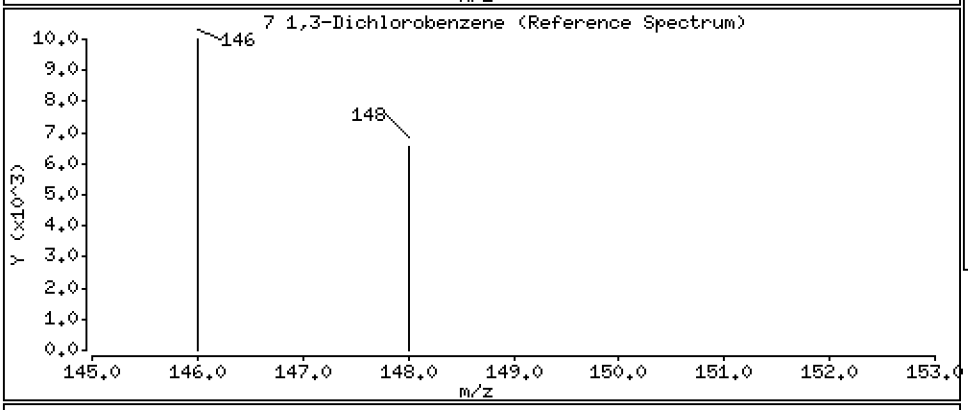
Concentration: 0.003945 ug/L

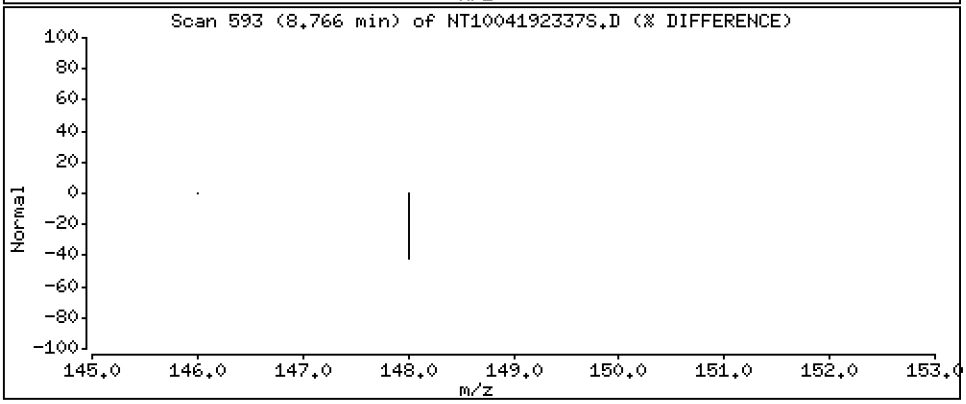












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Date : 20-APR-2023 10:13

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BLK2

Volume Injected (uL): 1.0

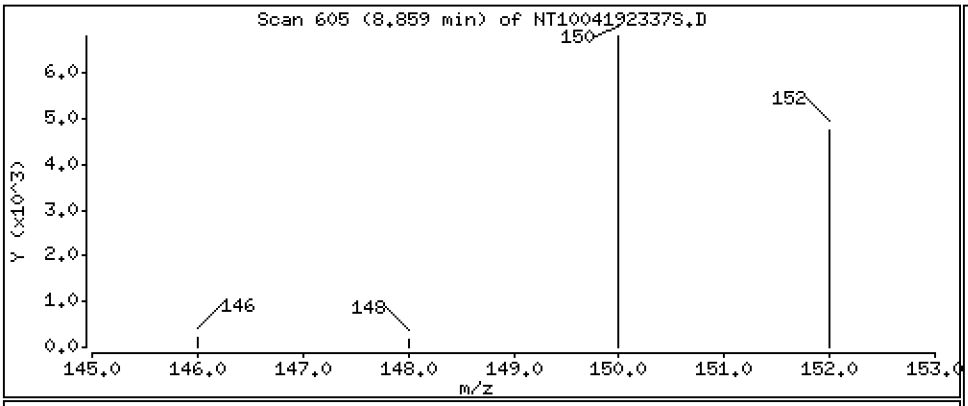
Operator: DSD

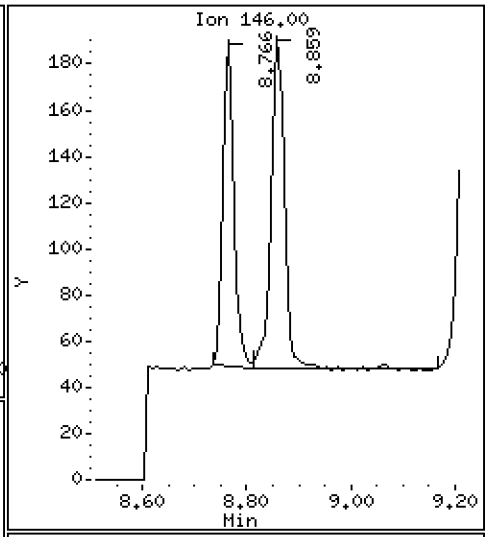
Column phase: ZB-5msi

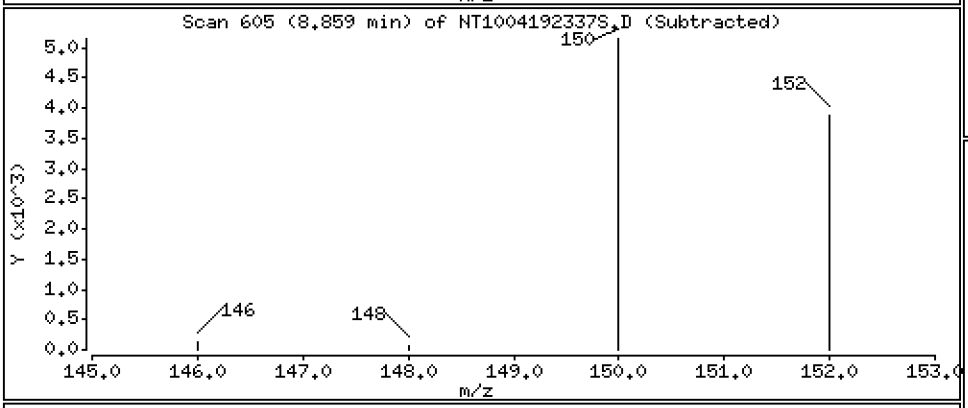
Column diameter: 0.25

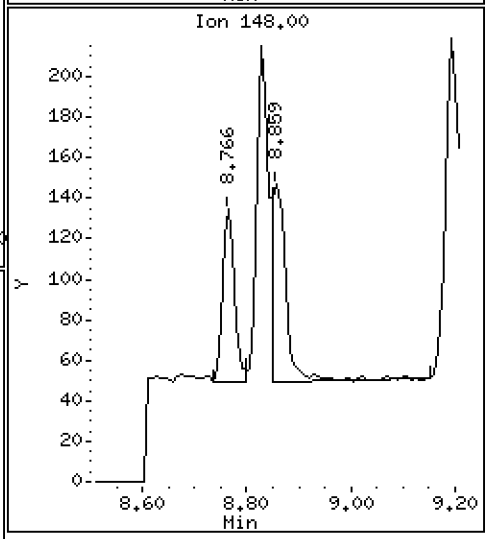
9 1,4-Dichlorobenzene

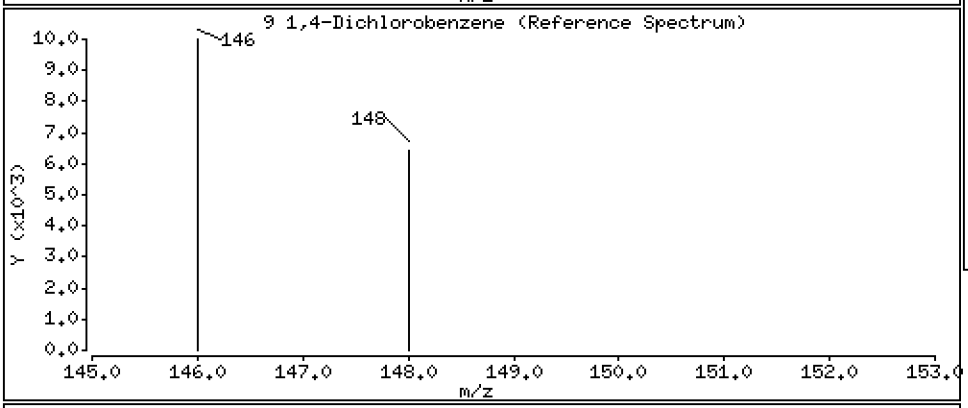
Concentration: 0.004622 ug/L

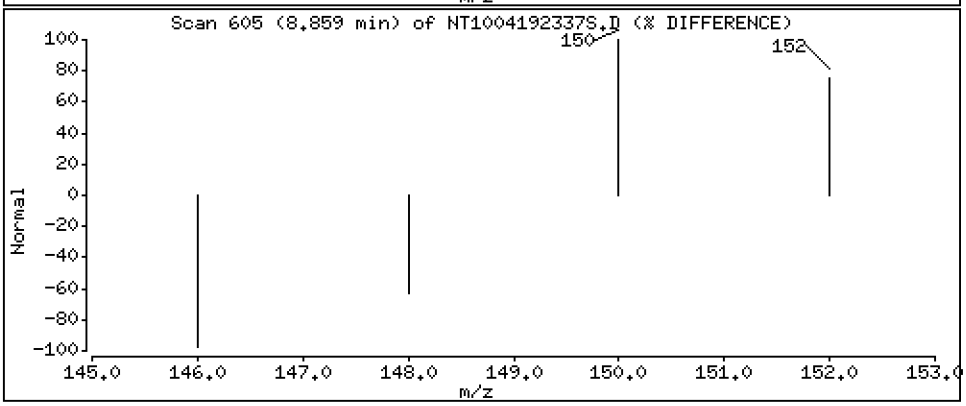












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Date : 20-APR-2023 10:13

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BLK2

Volume Injected (uL): 1.0

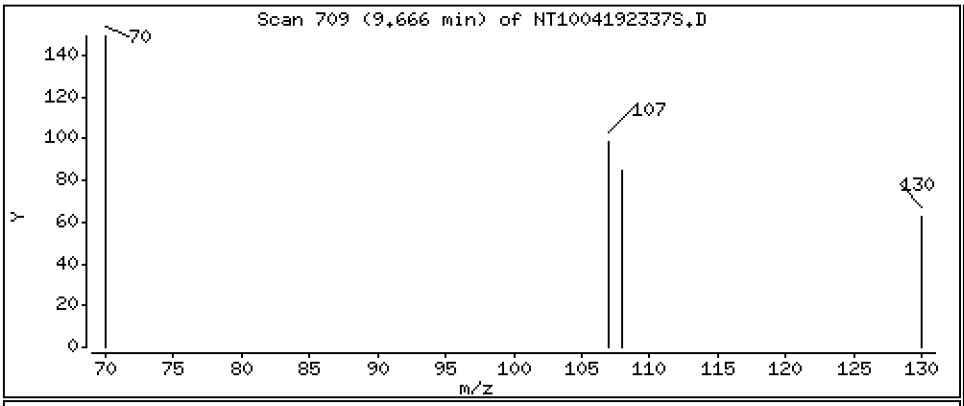
Operator: DSD

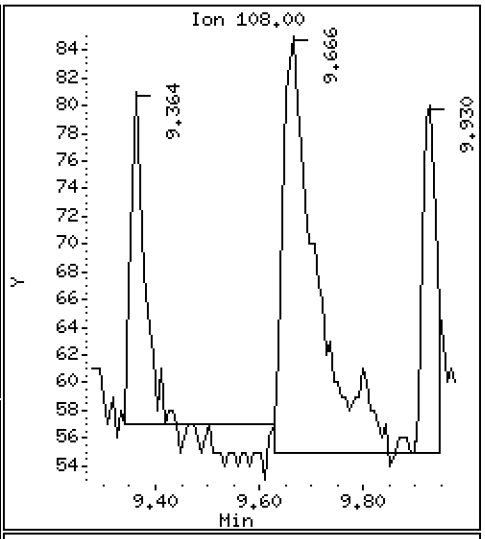
Column phase: ZB-5msi

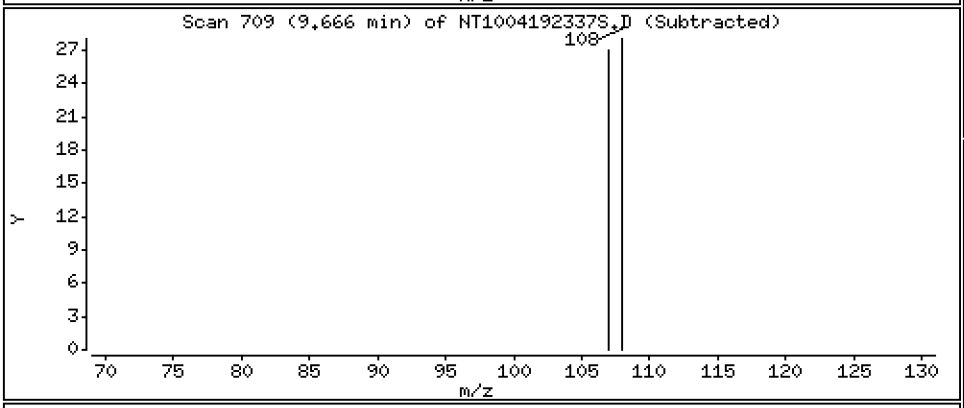
Column diameter: 0.25

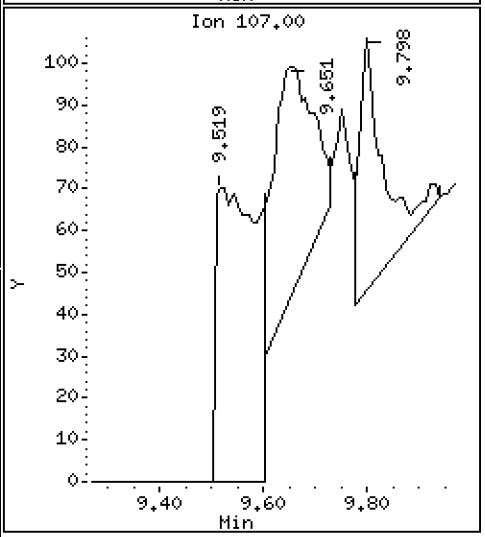
15 4-Methylphenol

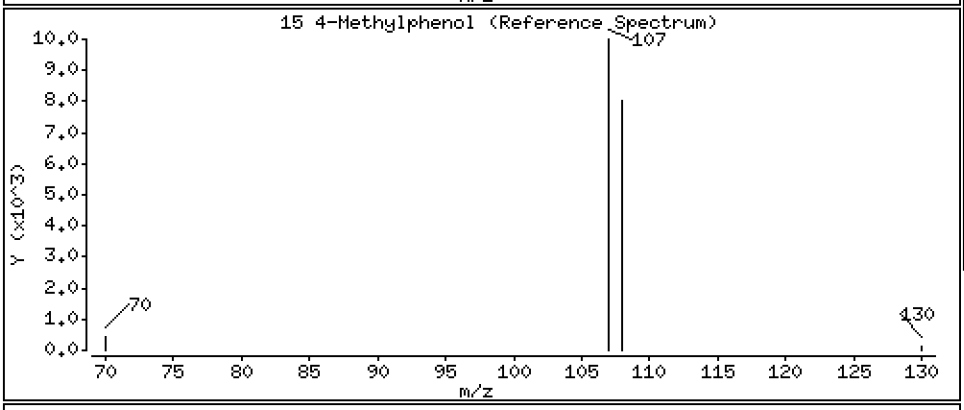
Concentration: 0.003283 ug/L

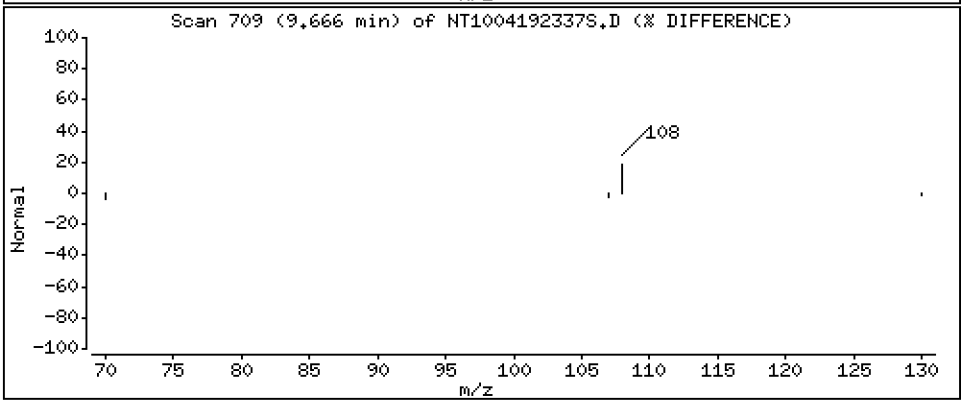












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Date : 20-APR-2023 10:13

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BLK2

Volume Injected (uL): 1.0

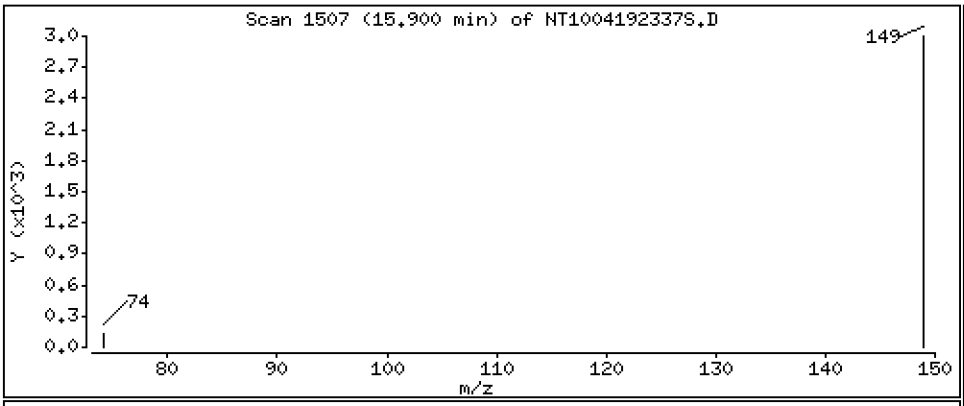
Operator: DSD

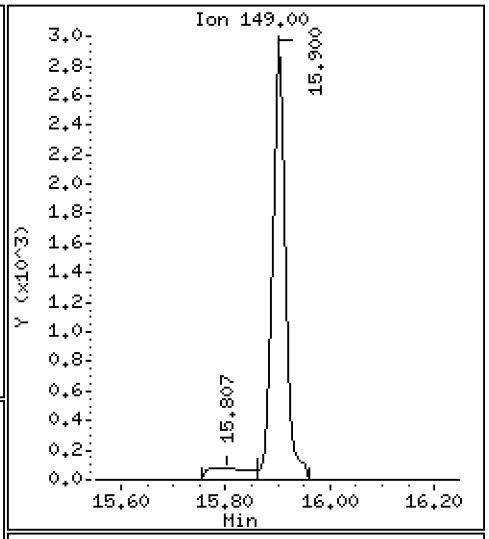
Column phase: ZB-5msi

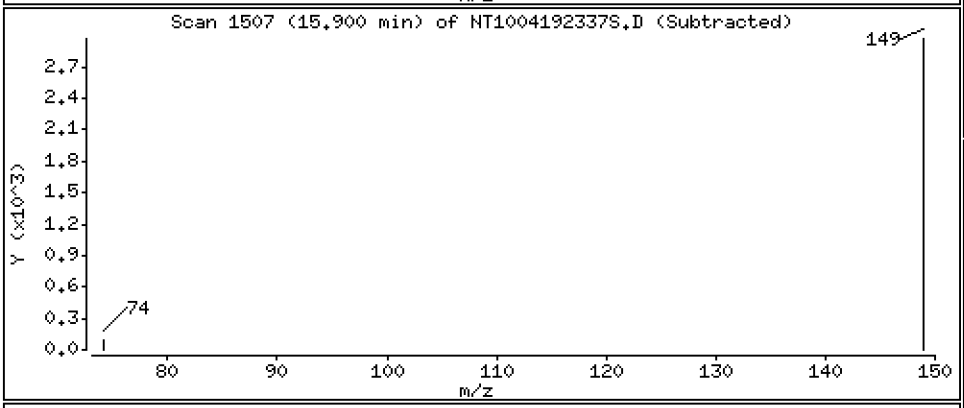
Column diameter: 0.25

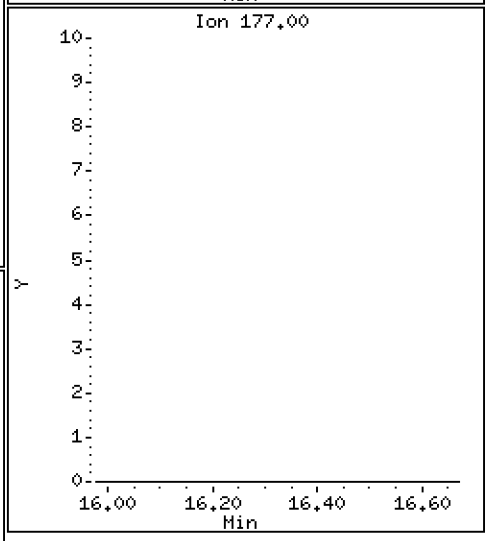
50 Diethylphthalate

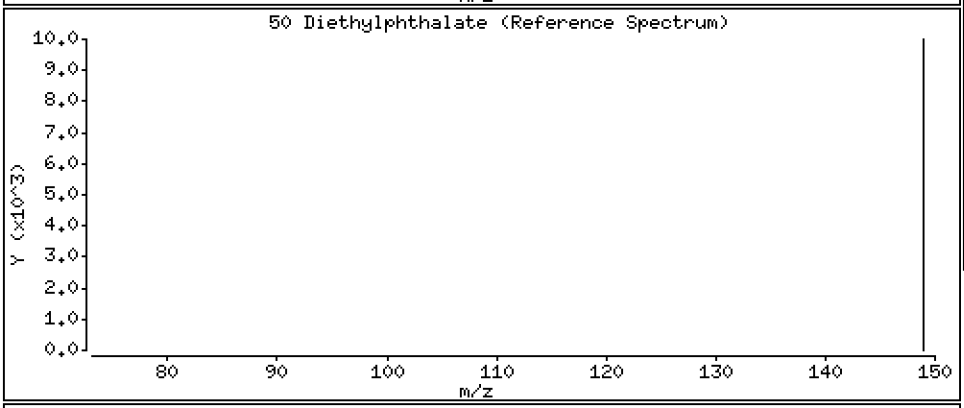
Concentration: 0.05791 ug/L

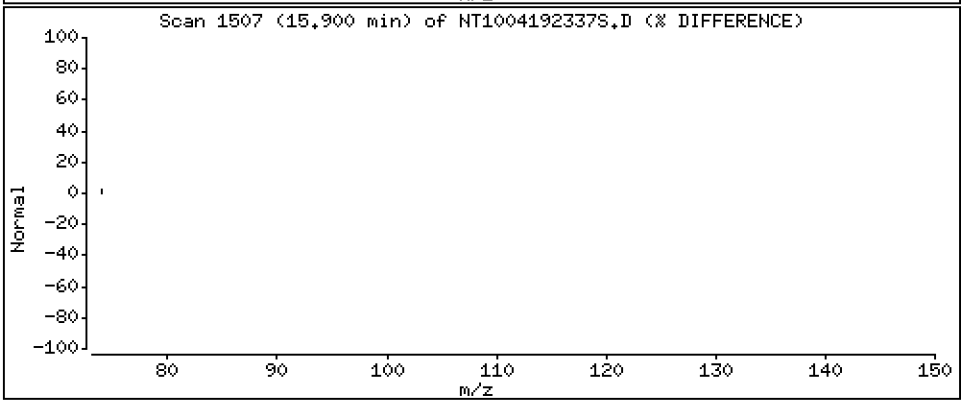












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192337S.D

Date : 20-APR-2023 10:13

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BLK2

Volume Injected (uL): 1.0

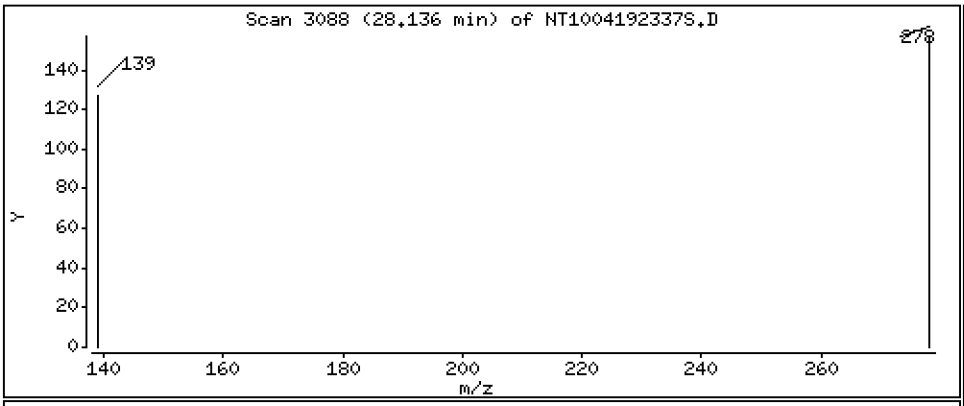
Operator: DSD

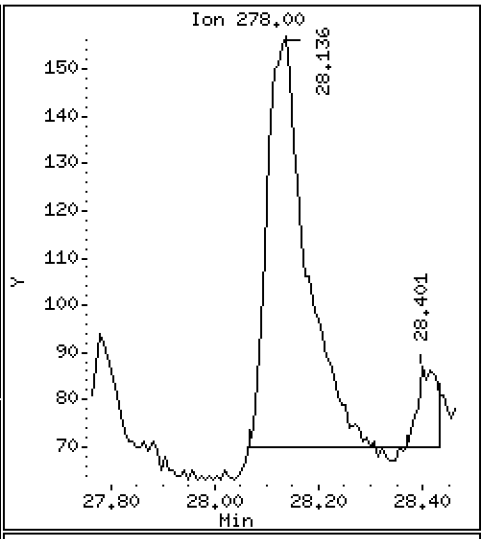
Column phase: ZB-5msi

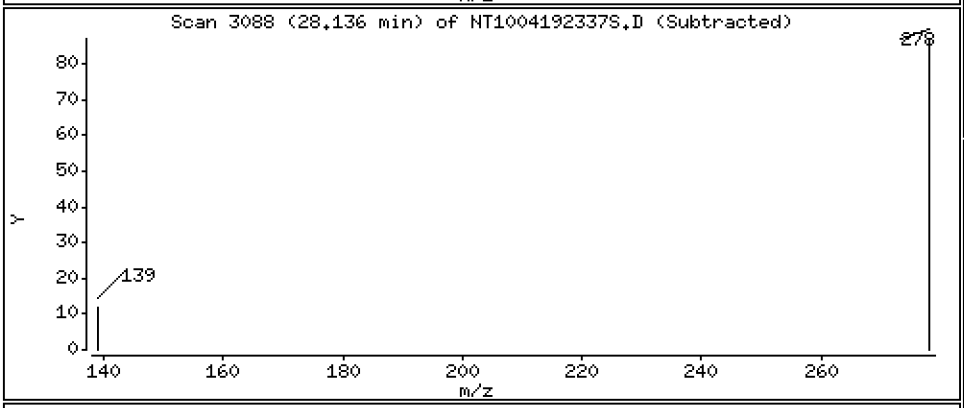
Column diameter: 0.25

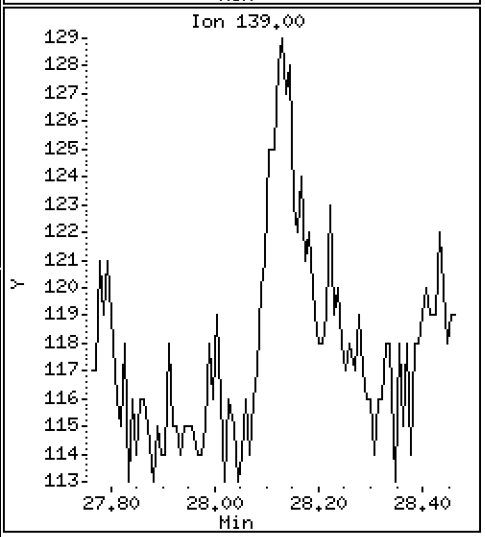
79 Dibenzo(a,h)anthracene

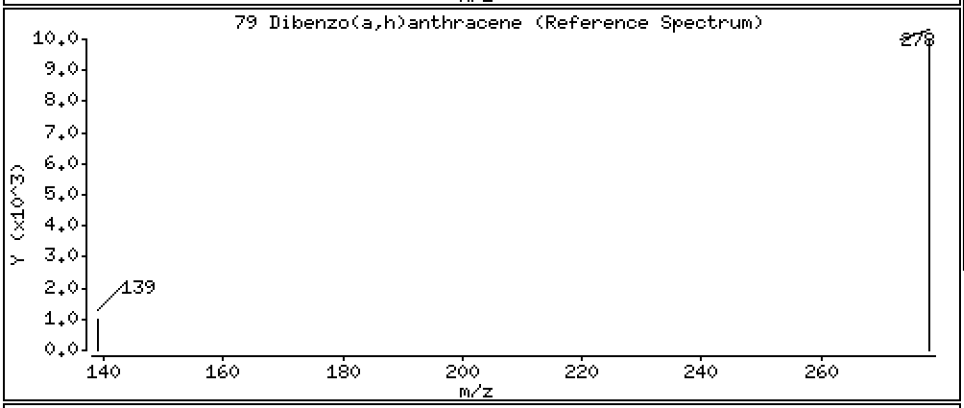
Concentration: 0.002722 ug/L

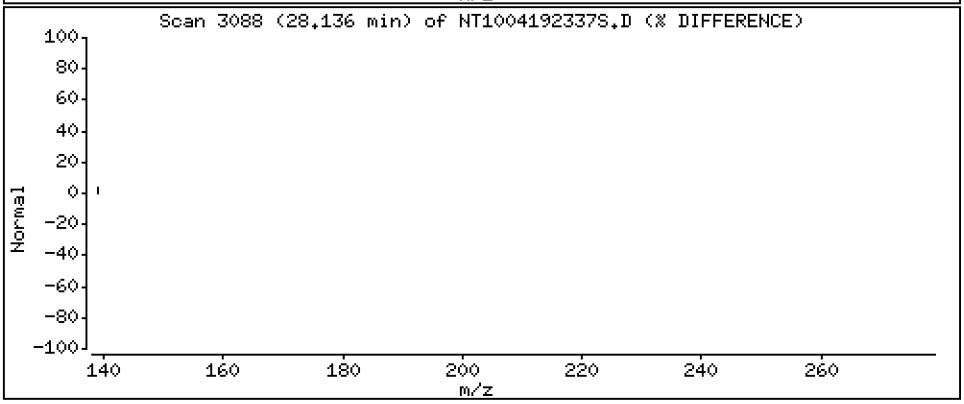












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192337S.D
Lab Smp Id: BLD0008-BLK2
Inj Date : 20-APR-2023 10:13 MS Autotune Date: 16-JAN-2023 17:42
Operator : DSD Inst ID: nt10.i
Smp Info : BLD0008-BLK2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\SIMABN2.m
Meth Date : 21-Apr-2023 13:41 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$	1 2-Fluorophenol	112	6.617	6.617	(0.750)	160216	3.79199	3.792(R)
	3 Phenol	94	8.240	8.240	(0.933)	4079	0.07037	0.07037
	7 1,3-Dichlorobenzene	146	8.765	8.766	(0.993)	214	0.00395	0.003945
*	8 1,4-Dichlorobenzene-d4	152	8.827	8.835	(1.000)	139330	4.00000	
	9 1,4-Dichlorobenzene	146	8.858	8.859	(1.004)	242	0.00462	0.004622
	11 Benzyl alcohol	79	Compound Not Detected.					
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	15 4-Methylphenol	108	9.666	9.627	(1.095)	137	0.00328	0.003283
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.312	11.312	(1.000)	504066	4.00000	
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
*	42 Acenaphthene-d10	162	14.918	14.918	(1.000)	266360	4.00000	
	50 Diethylphthalate	149	15.899	15.900	(1.066)	5043	0.05791	0.05791
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	17.954	17.947	(1.000)	457399	4.00000	
$	66 Terphenyl-d14	244	21.142	21.142	(0.917)	207902	2.77053	2.771(R)
	67 Butylbenzylphthalate	149	Compound Not Detected.					
*	69 Chrysene-d12	240	23.047	23.047	(1.000)	460552	4.00000	
*	77 Perylene-d12	264	25.594	25.594	(1.000)	502276	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.136	28.113	(1.099)	449	0.00272	0.002722
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192337S.D
Lab Smp Id: BLD0008-BLK2
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\SIMABN2.m
Misc Info:

Calibration Date: 20-APR-2023
Calibration Time: 08:57
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	128281	64141	256562	139330	8.61
27 Naphthalene-d8	458707	229354	917414	504066	9.89
42 Acenaphthene-d10	243296	121648	486592	266360	9.48
59 Phenanthrene-d10	433853	216927	867706	457399	5.43
69 Chrysene-d12	435413	217707	870826	460552	5.77
77 Perylene-d12	490854	245427	981708	502276	2.33

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.84	8.34	9.34	8.83	-0.09
27 Naphthalene-d8	11.31	10.81	11.81	11.31	-0.00
42 Acenaphthene-d10	14.92	14.42	15.42	14.92	-0.00
59 Phenanthrene-d10	17.95	17.45	18.45	17.95	0.04
69 Chrysene-d12	23.05	22.55	23.55	23.05	-0.00
77 Perylene-d12	25.59	25.09	26.09	25.59	-0.00

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

REVIEW SUMMARY FOR FILE - NT1004192337S.D

Lab ID: BLD0008-BLK2
nt10.i, 20230419B.b\20230419B.b\SIMABN2.m,   20-APR-2023 10:13

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.095	1.090	0.0054	4-Methylphenol

RRT check based on Ccal File: 20230419B.b/NT1004192335S.D

On Column LOD for nt10.i, 20230419B.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Analytical Resources, LLC
Analytical Chemists and Consultants

LCS / LCS DUPLICATE RECOVERY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	04/20/23 10:51
Batch:	BLD0008	Laboratory ID:	BLD0008-BS2
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	10 g / 1 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
1,4-Dichlorobenzene	500	308		61.6	36 - 120
1,2-Dichlorobenzene	500	305		60.9	36 - 120
Benzyl Alcohol	500	303		60.7	25 - 123
Benzoic acid	2300	2060		89.6	10 - 160
2,4-Dimethylphenol	1300	325		25.0	10 - 120
1,2,4-Trichlorobenzene	500	298		59.6	35 - 120
N-Nitrosodiphenylamine	500	291		58.1	27 - 120
Pentachlorophenol	1300	1050		81.0	26 - 120

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,4-Dichlorobenzene	500	317		63.3	2.79	30	36 - 120
1,2-Dichlorobenzene	500	311		62.2	2.04	30	36 - 120
Benzyl Alcohol	500	316		63.2	4.03	30	25 - 123
Benzoic acid	2300	2220		96.6	7.52	30	10 - 160
2,4-Dimethylphenol	1300	361		27.7	10.3	30	10 - 120
1,2,4-Trichlorobenzene	500	309		61.9	3.68	30	35 - 120
N-Nitrosodiphenylamine	500	315		62.9	7.90	30	27 - 120
Pentachlorophenol	1300	1140		88.1	8.38	30	26 - 120

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT10041923385.D

Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

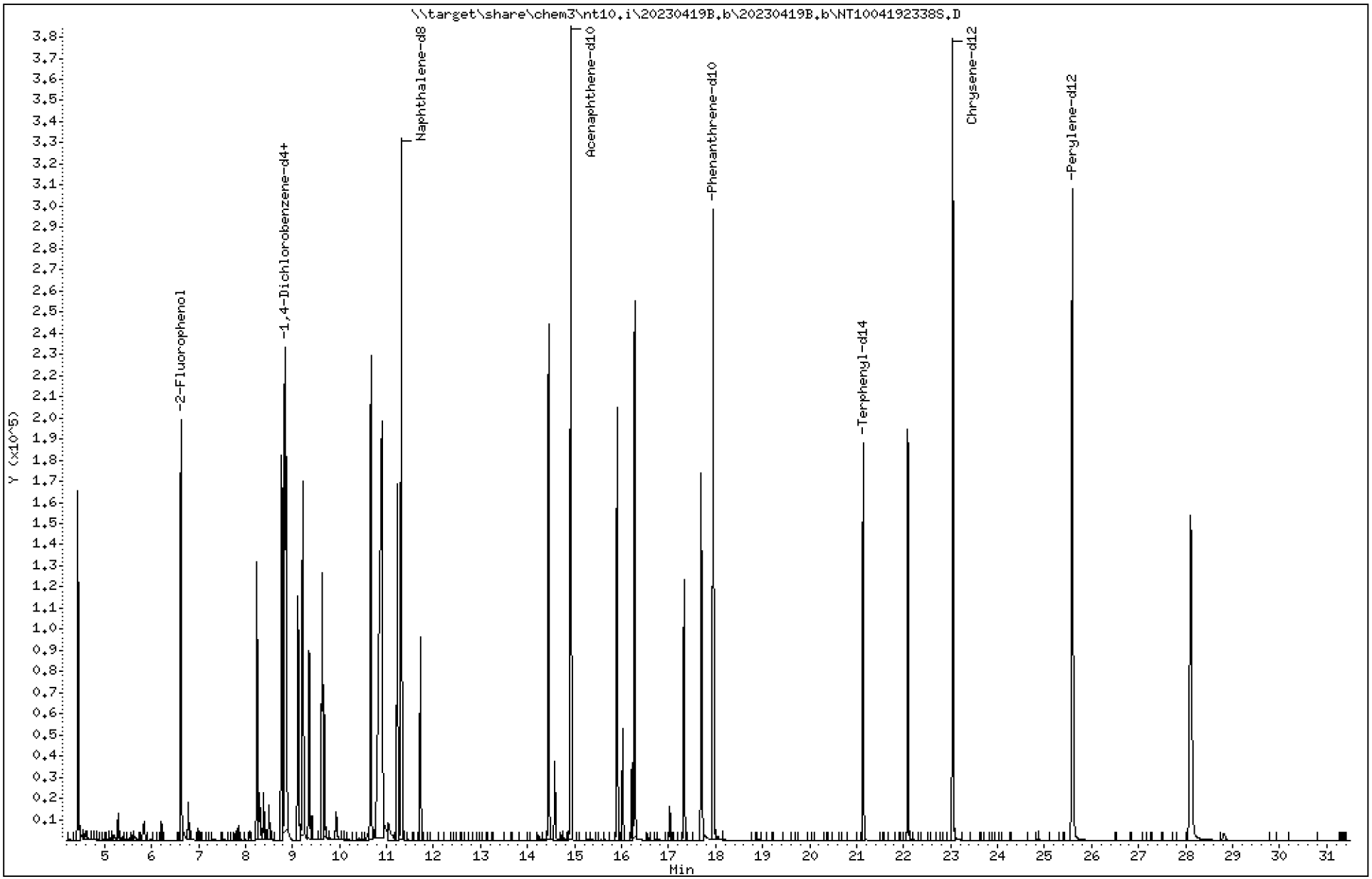
Sample Info: BLD0008-BS2

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS2

Volume Injected (uL): 1.0

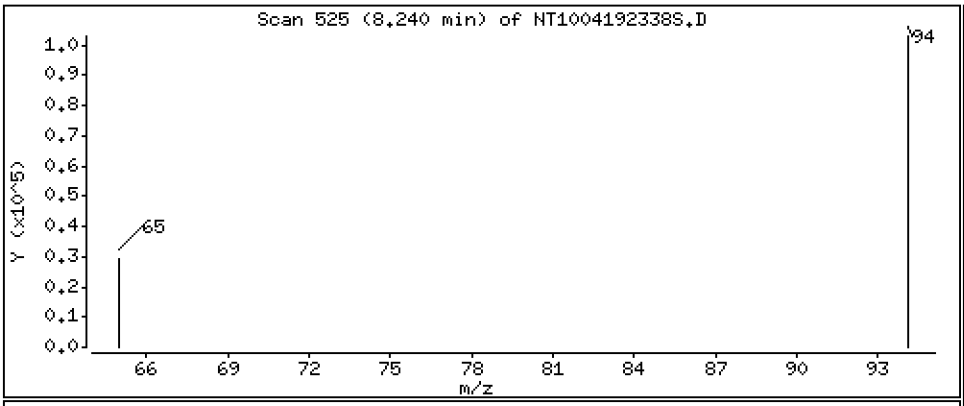
Operator: DSD

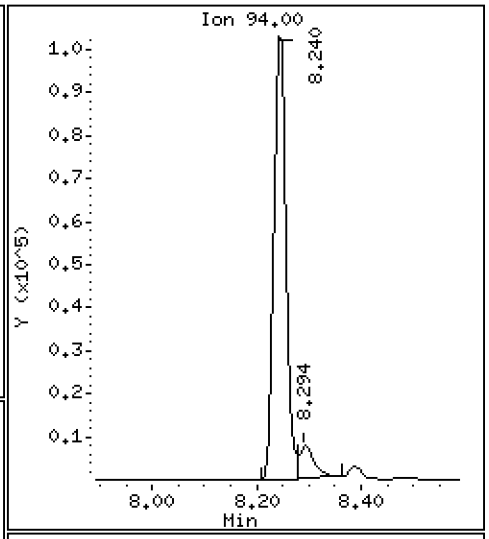
Column phase: ZB-5msi

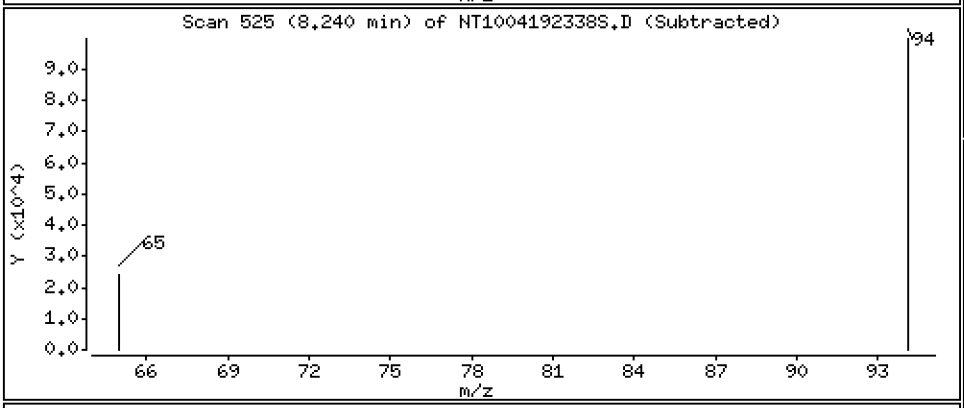
Column diameter: 0.25

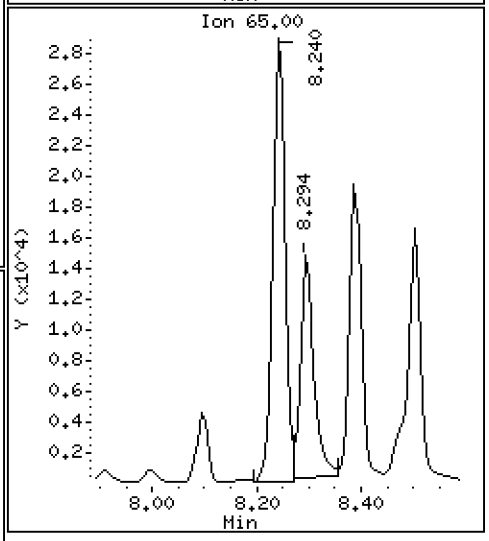
3 Phenol

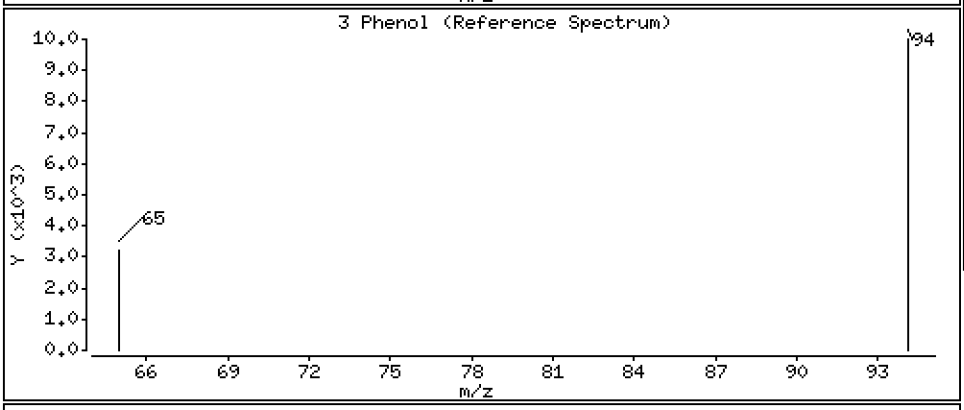
Concentration: 2.758 ug/L

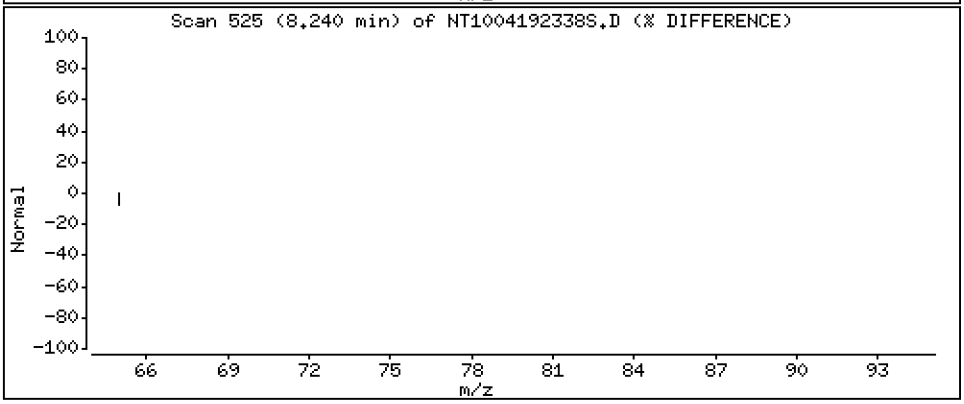












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192338S.D

Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS2

Volume Injected (uL): 1.0

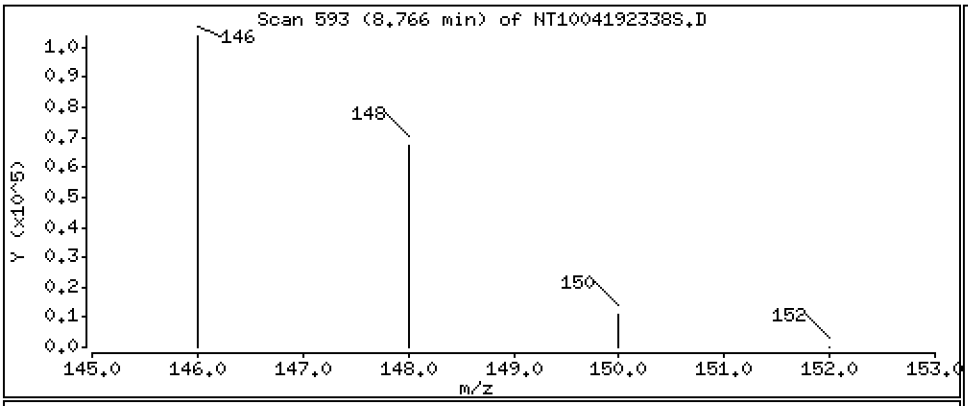
Operator: DSD

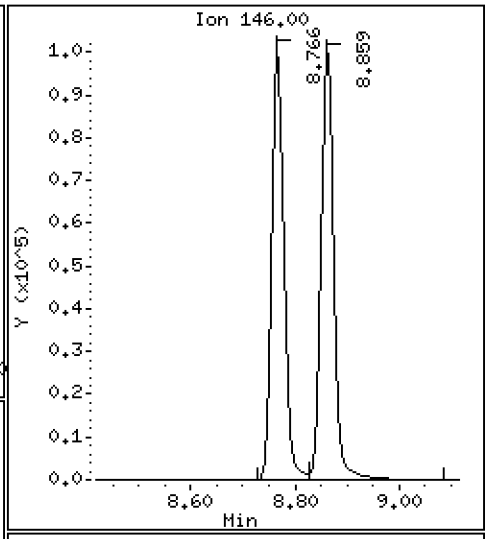
Column phase: ZB-5msi

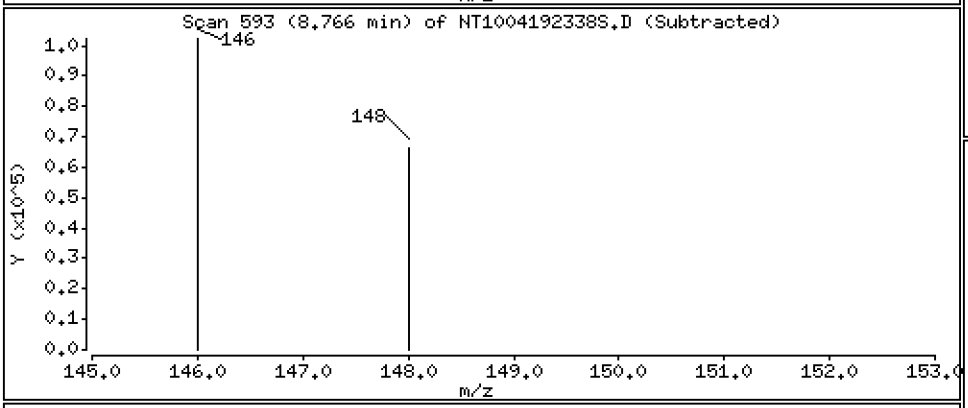
Column diameter: 0.25

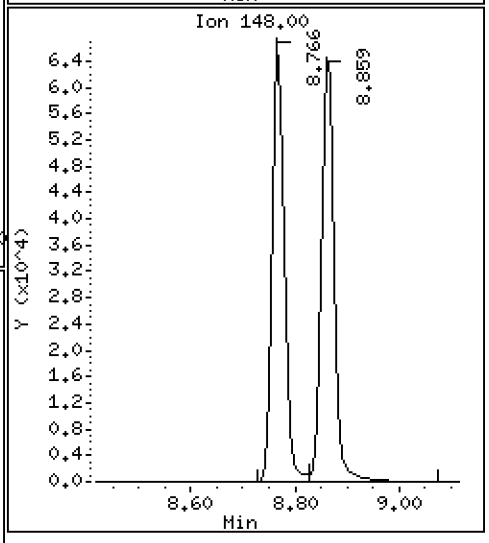
7 1,3-Dichlorobenzene

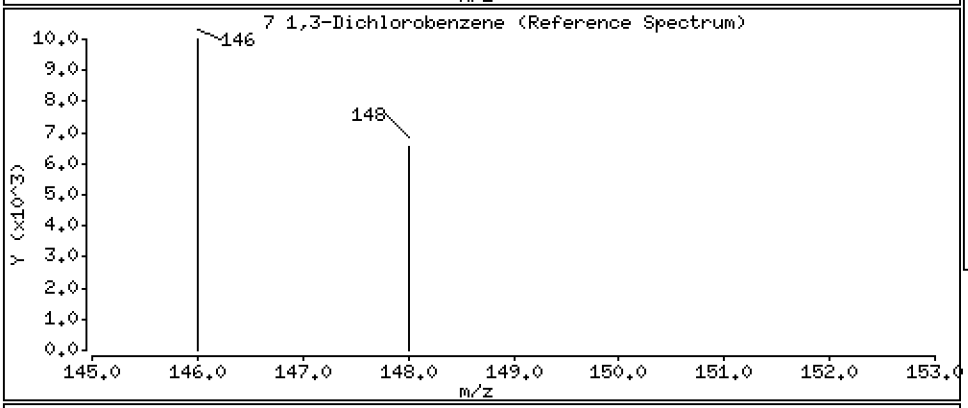
Concentration: 2.942 ug/L

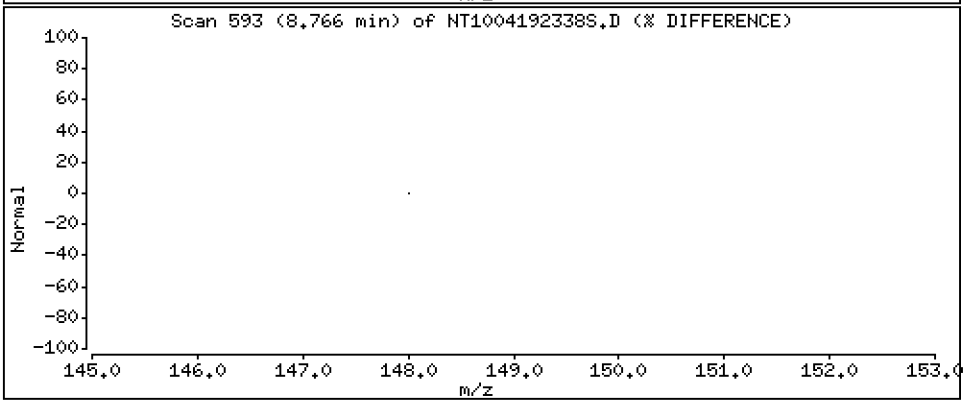












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192338S.D

Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS2

Volume Injected (uL): 1.0

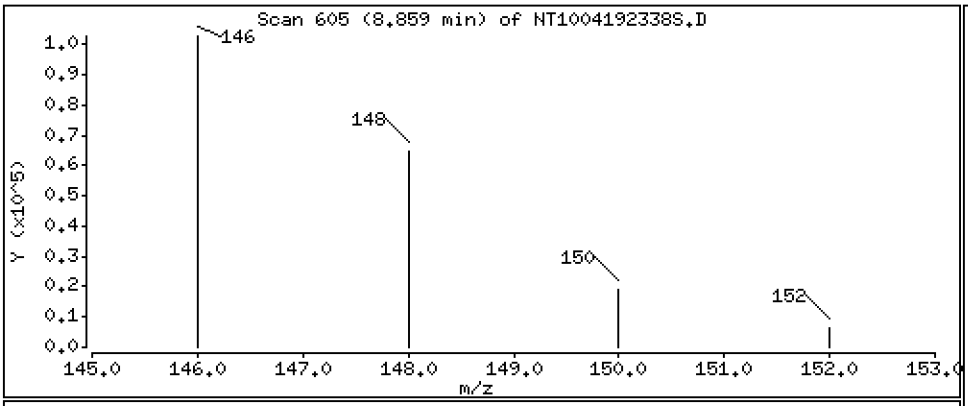
Operator: DSD

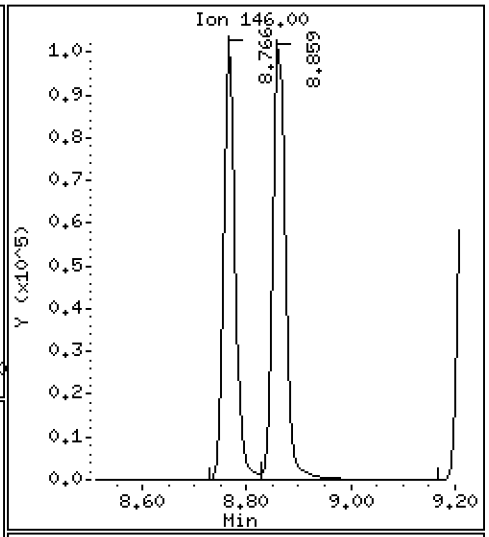
Column phase: ZB-5msi

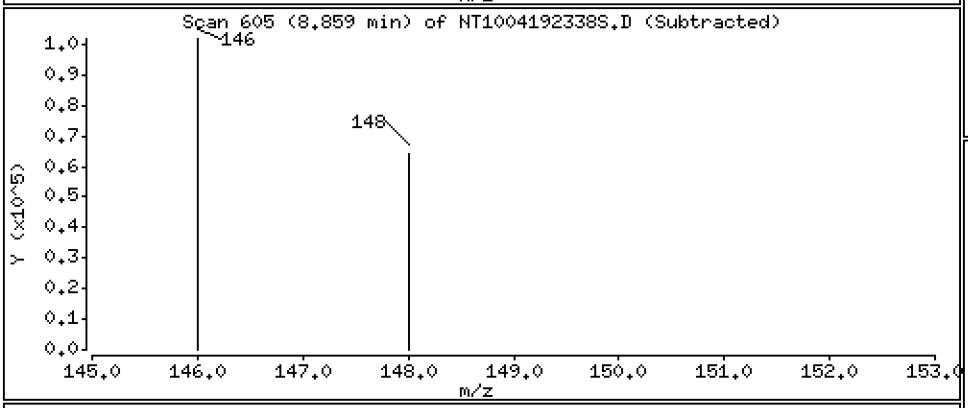
Column diameter: 0.25

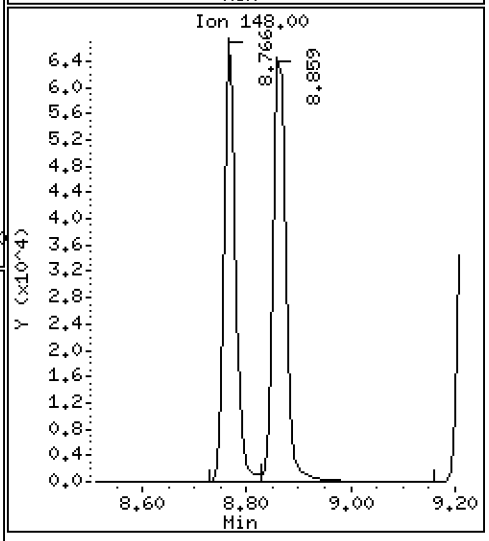
9 1,4-Dichlorobenzene

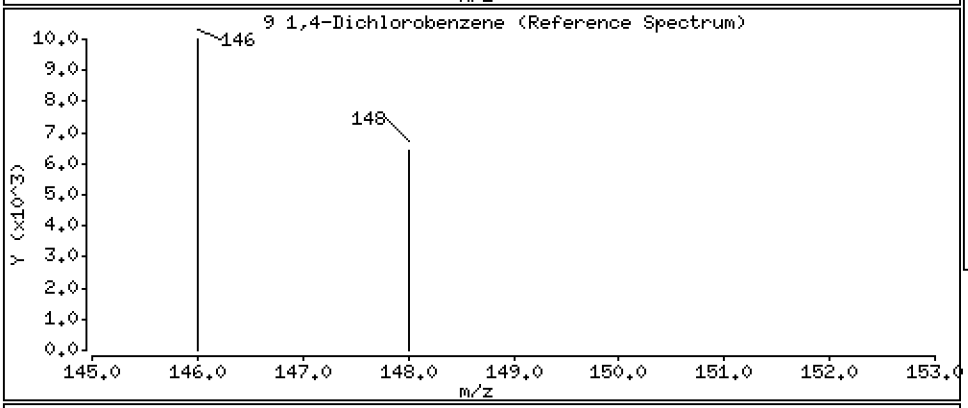
Concentration: 3.079 ug/L

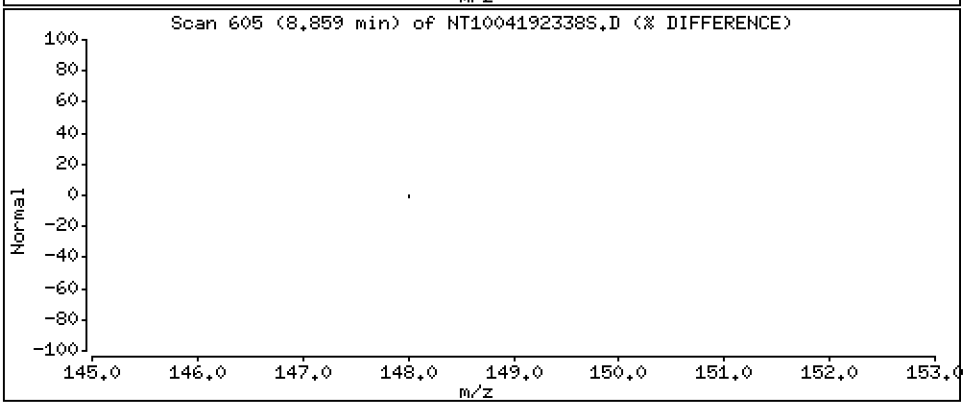












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192338S.D

Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS2

Volume Injected (uL): 1.0

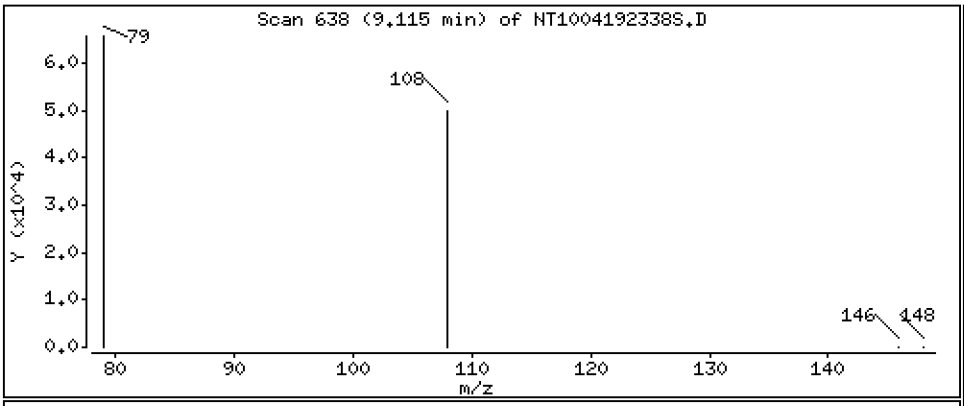
Operator: DSD

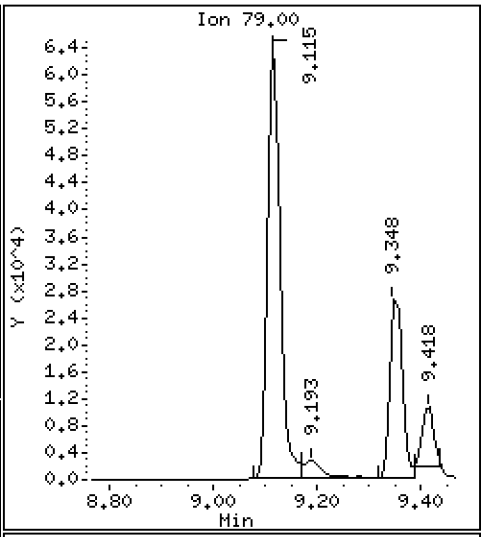
Column phase: ZB-5msi

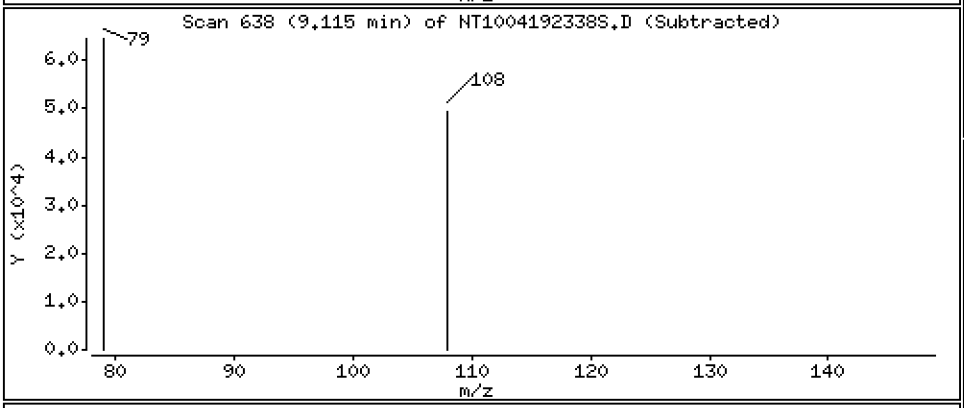
Column diameter: 0.25

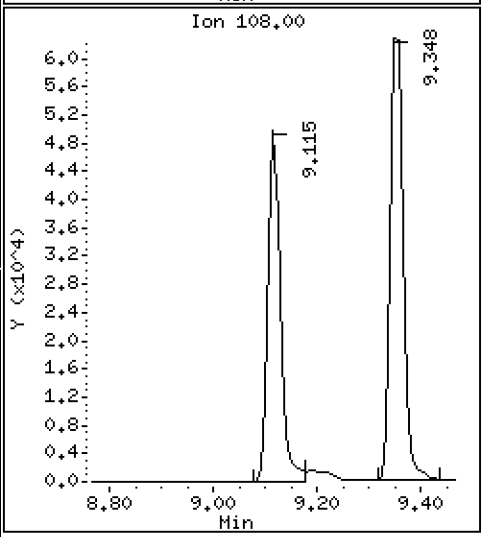
11 Benzyl alcohol

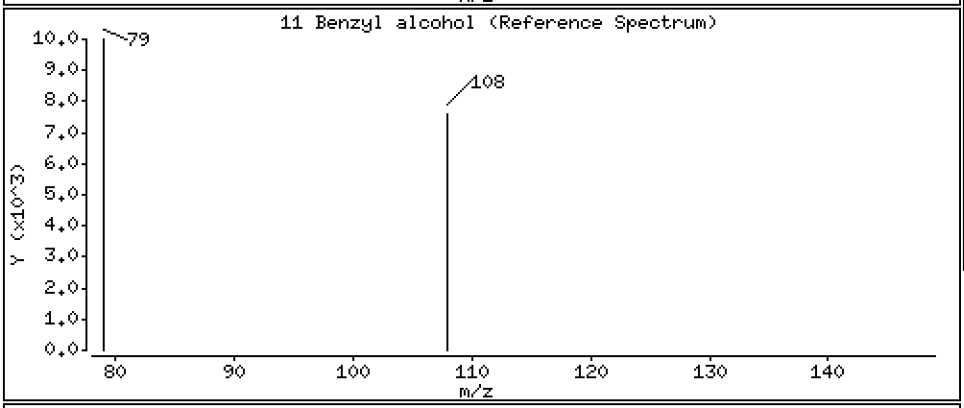
Concentration: 3.034 ug/L

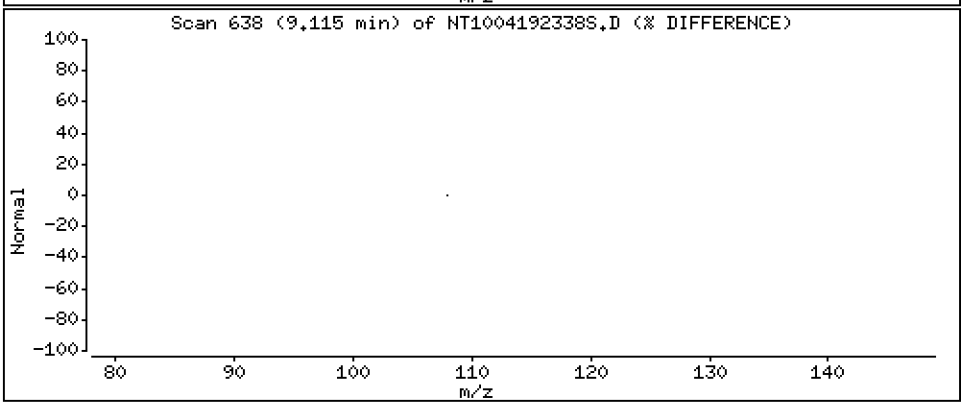












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192338S.D

Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS2

Volume Injected (uL): 1.0

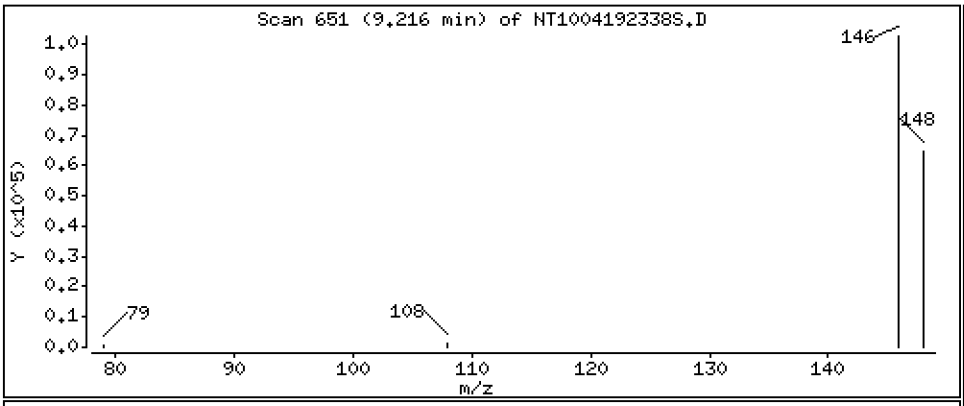
Operator: DSD

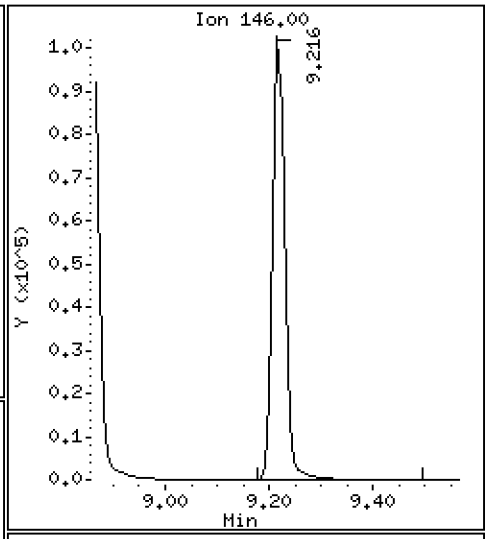
Column phase: ZB-5msi

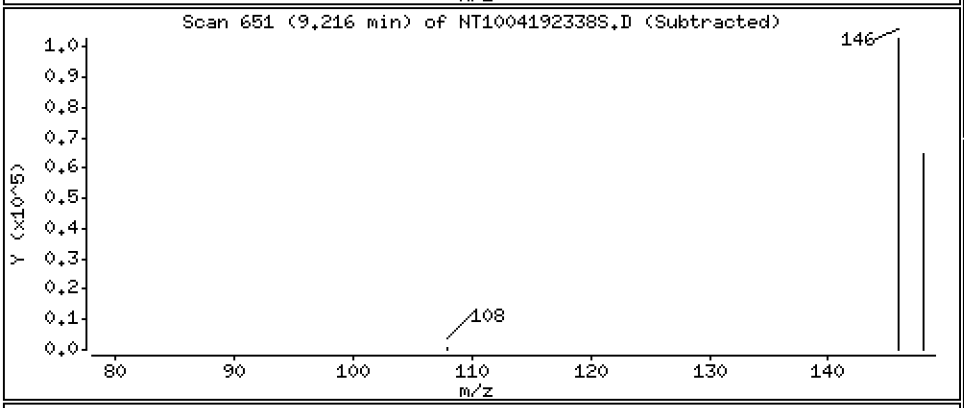
Column diameter: 0.25

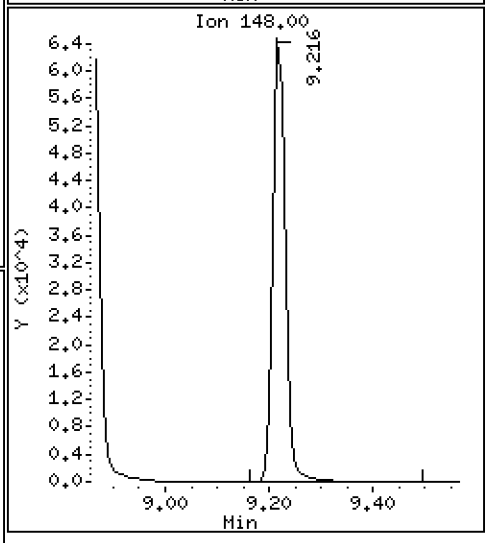
12 1,2-Dichlorobenzene

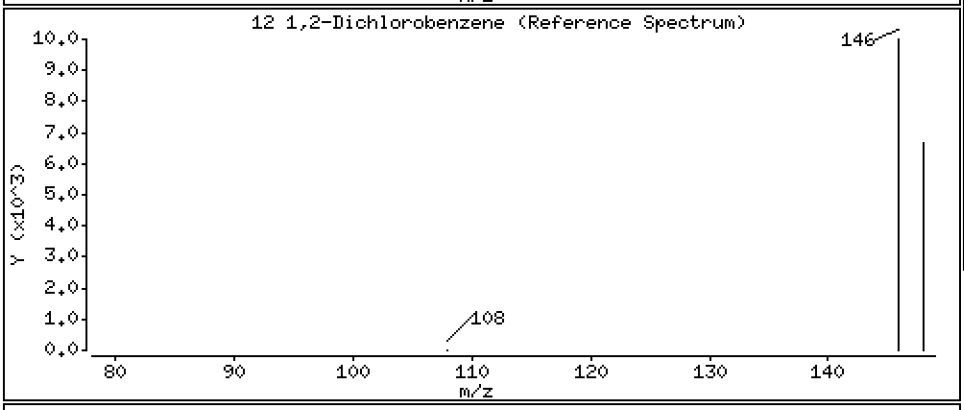
Concentration: 3.046 ug/L

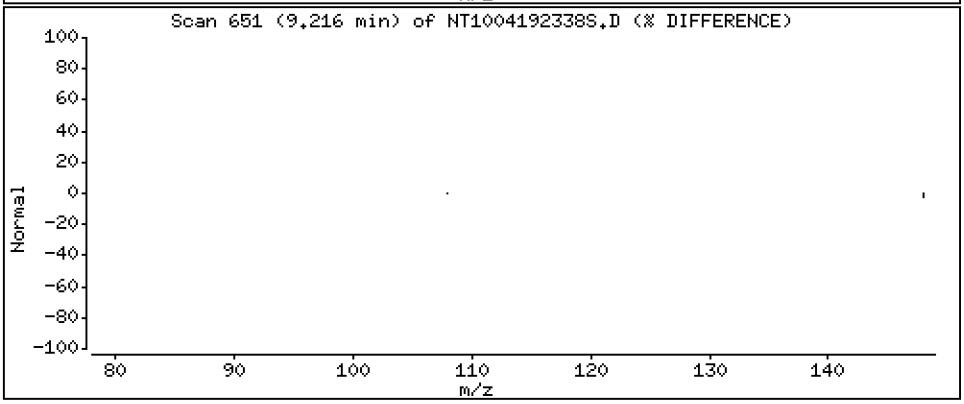












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192338S.D

Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS2

Volume Injected (uL): 1.0

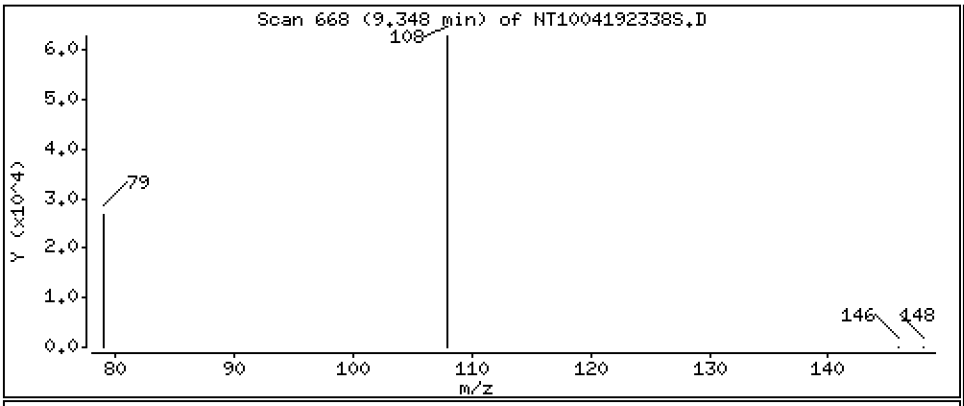
Operator: DSD

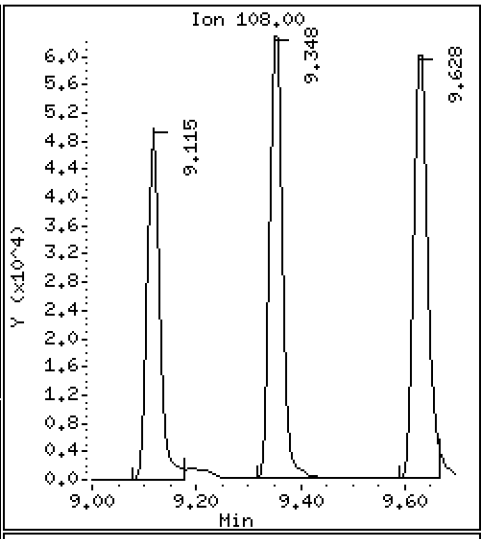
Column phase: ZB-5msi

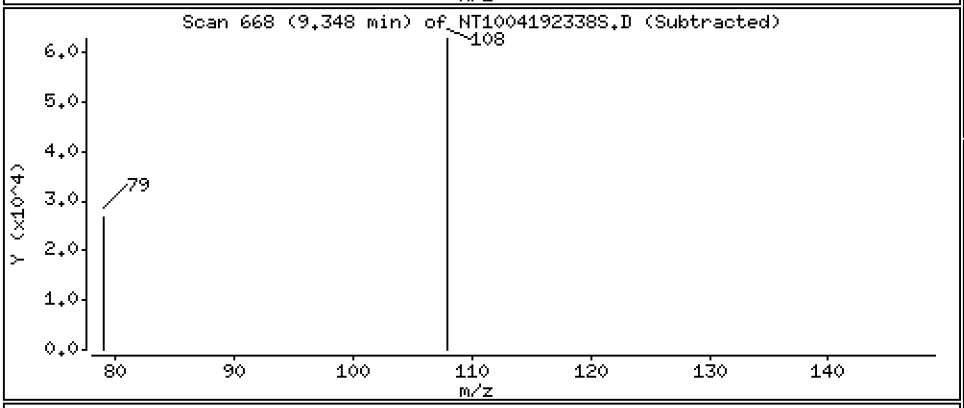
Column diameter: 0.25

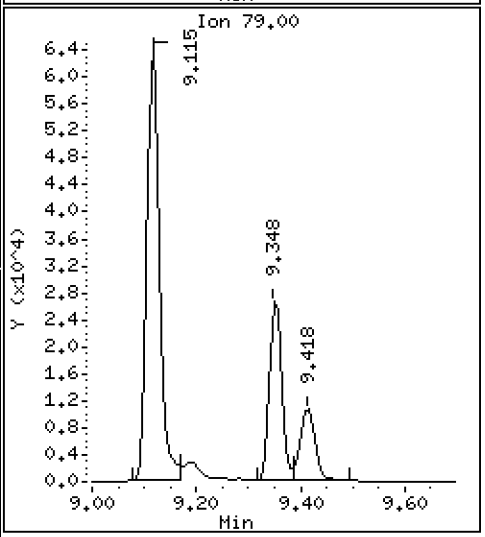
13 2-Methylphenol

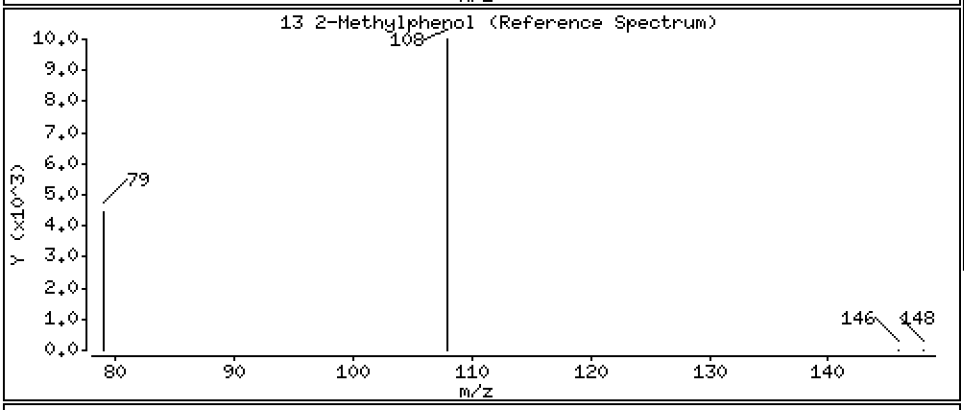
Concentration: 2.590 ug/L

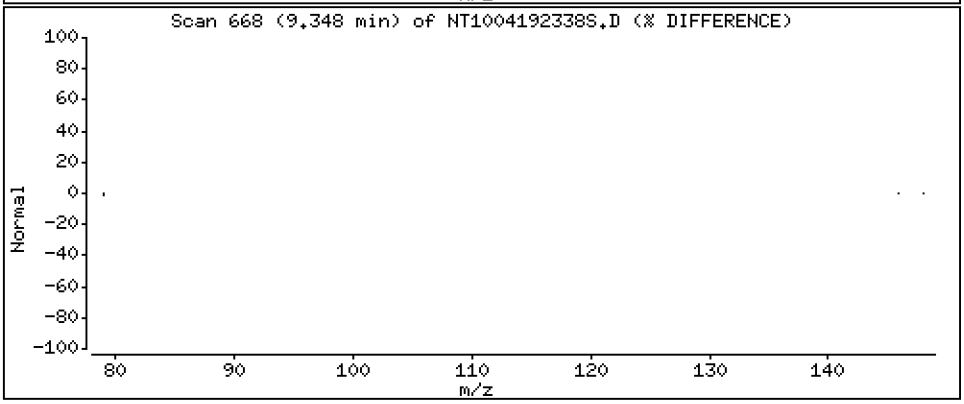












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192338S.D

Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS2

Volume Injected (uL): 1.0

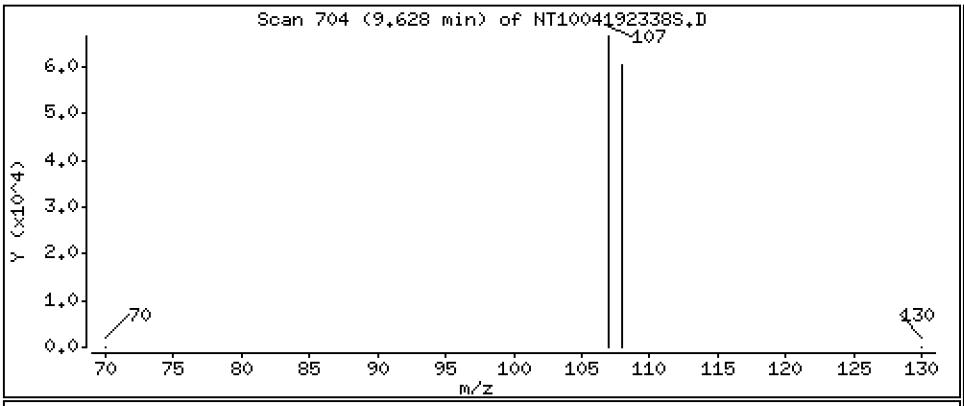
Operator: DSD

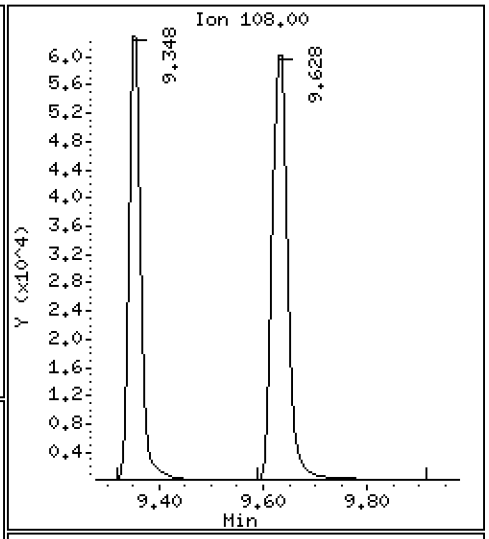
Column phase: ZB-5msi

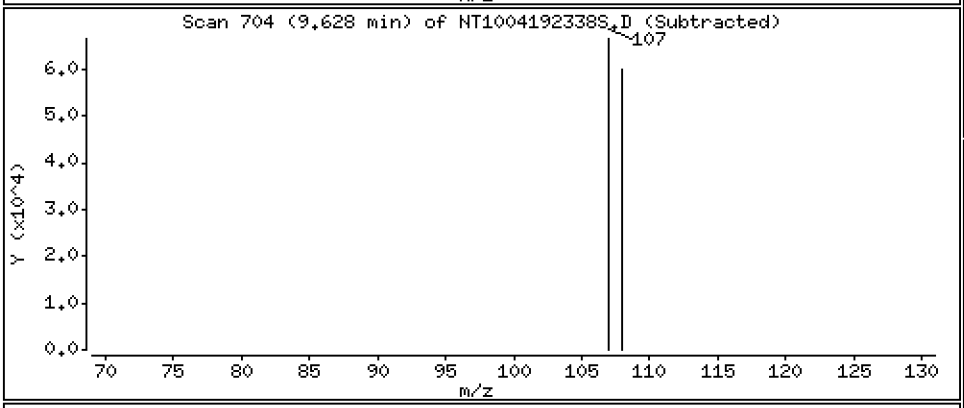
Column diameter: 0.25

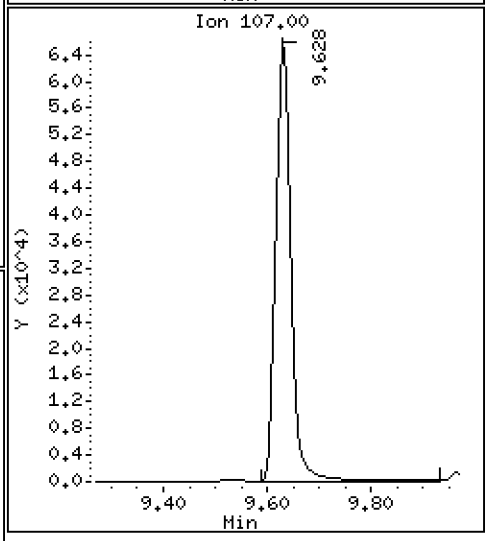
15 4-Methylphenol

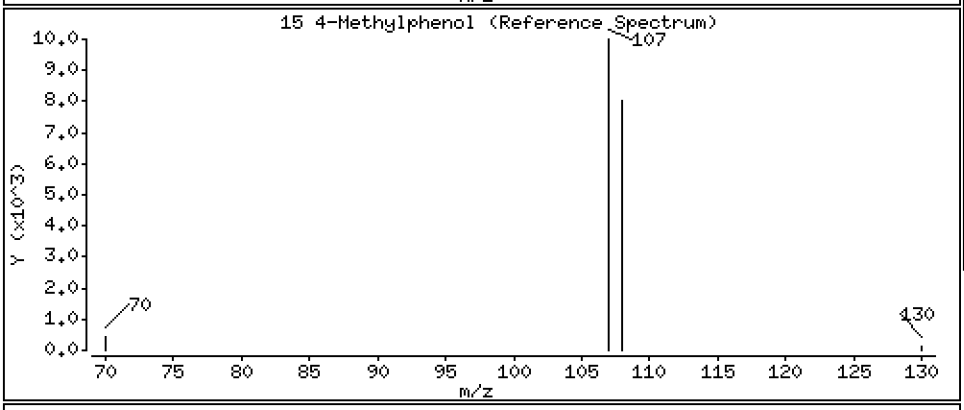
Concentration: 2.895 ug/L

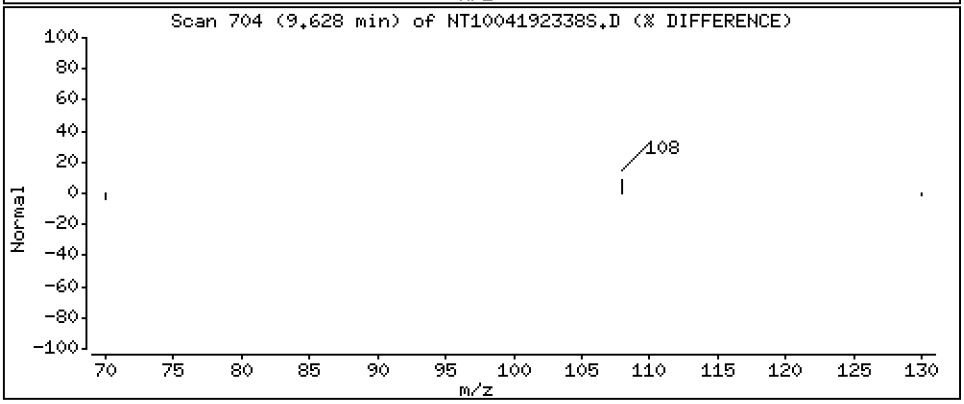












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192338S.D

Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS2

Volume Injected (uL): 1.0

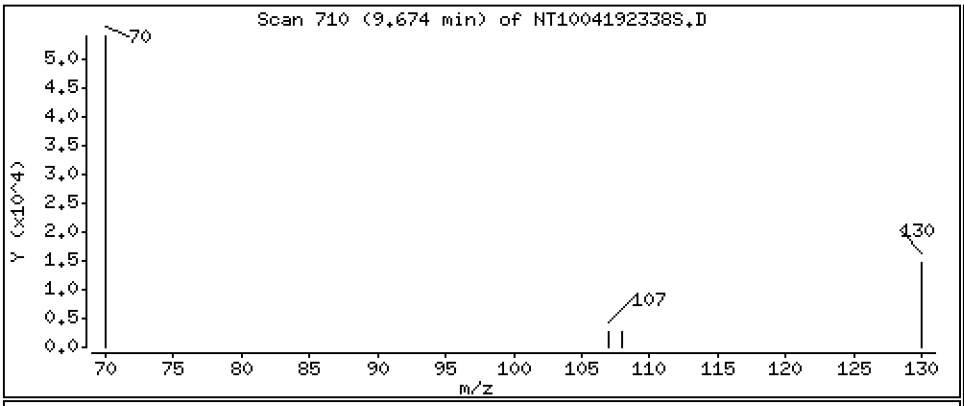
Operator: DSD

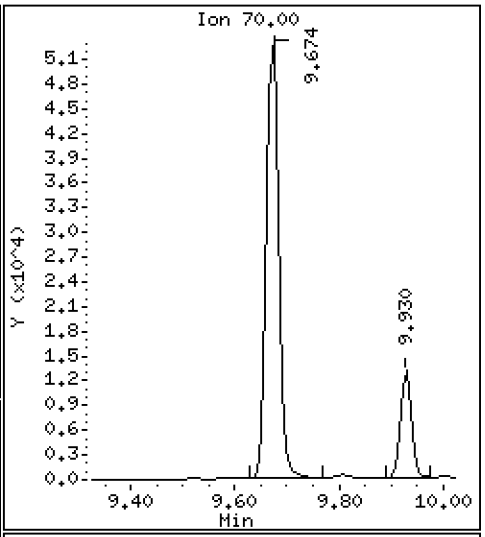
Column phase: ZB-5msi

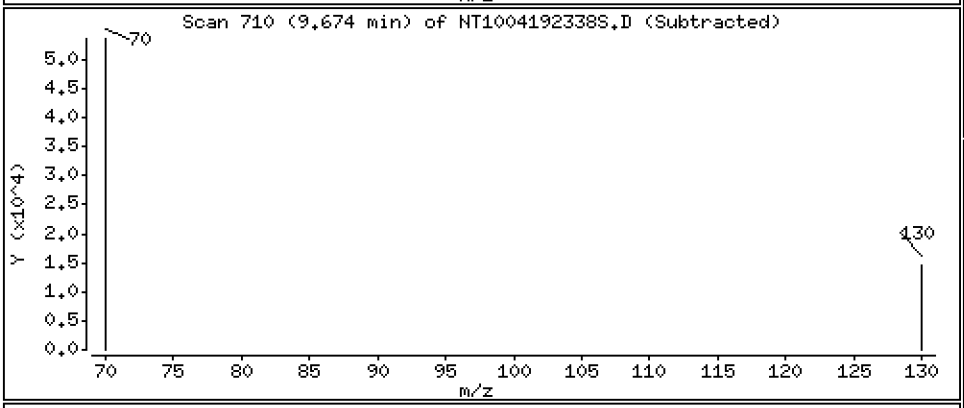
Column diameter: 0.25

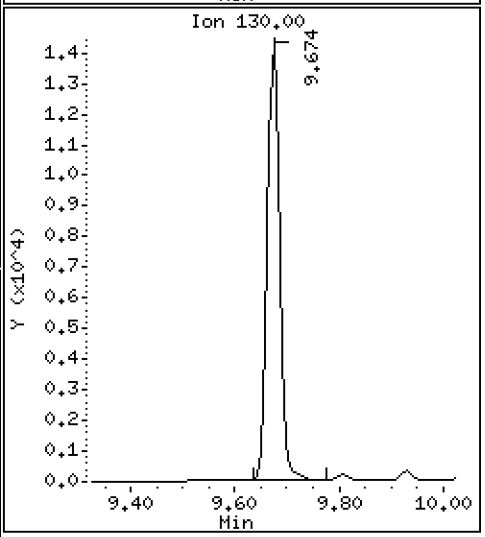
16 N-Nitroso-di-n-propylamine

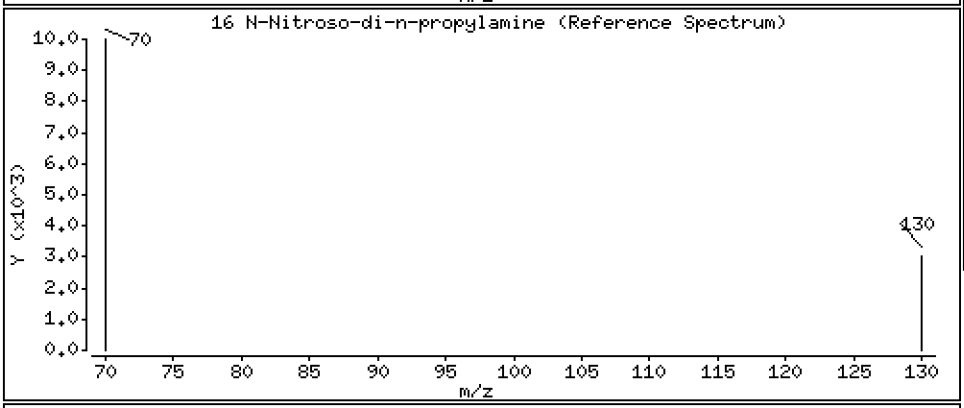
Concentration: 2.815 ug/L

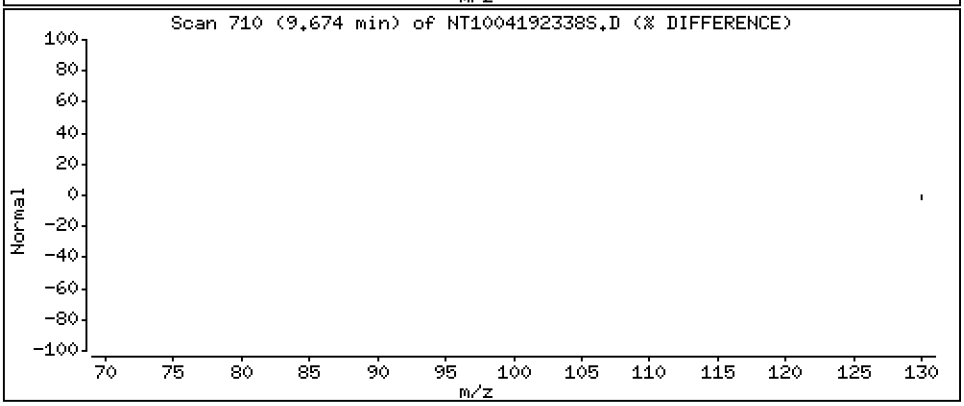












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT10041923385.D

Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS2

Volume Injected (uL): 1.0

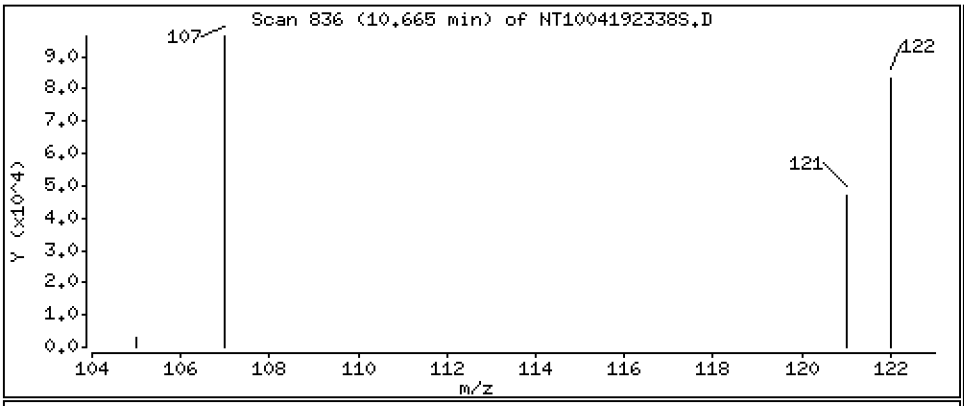
Operator: DSD

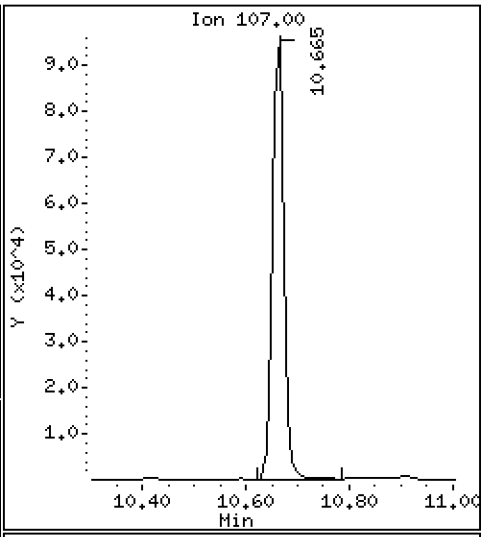
Column phase: ZB-5msi

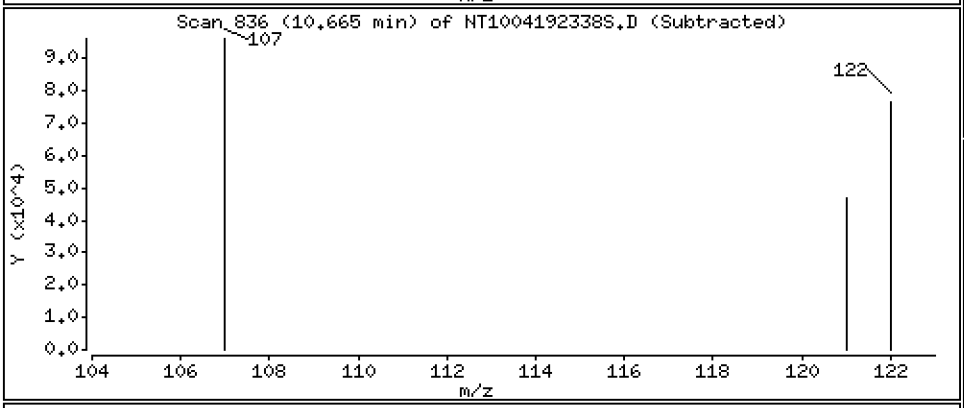
Column diameter: 0.25

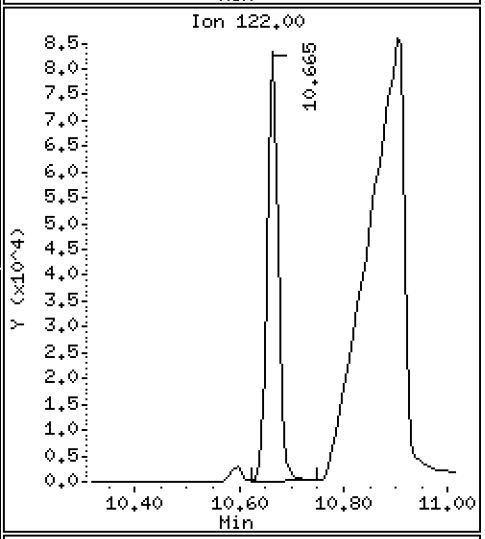
22 2,4-Dimethylphenol

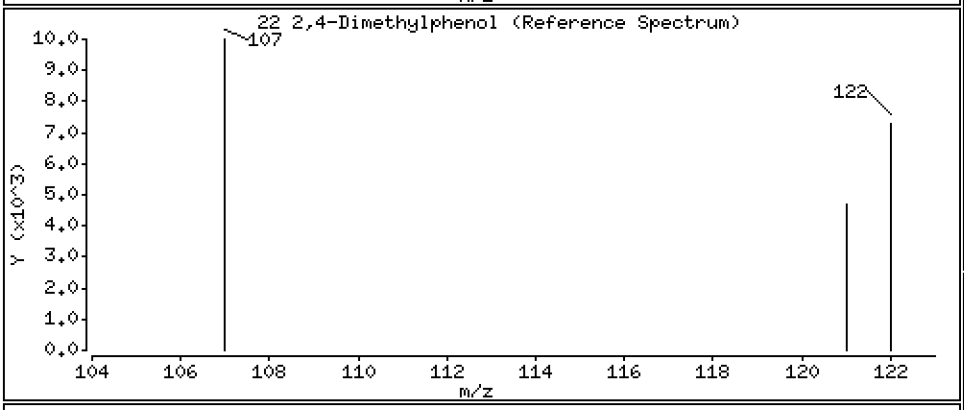
Concentration: 3.253 ug/L

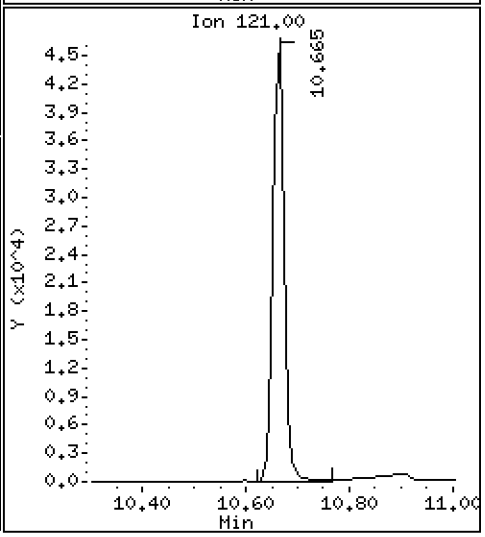


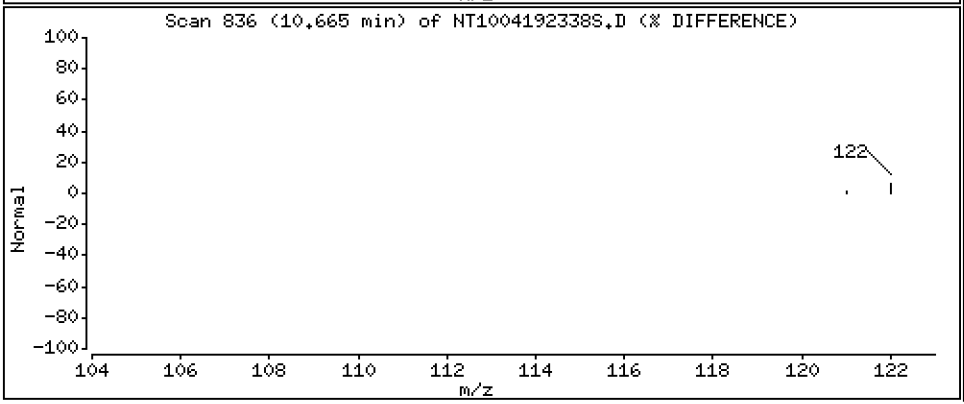












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT10041923385.D

Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS2

Volume Injected (uL): 1.0

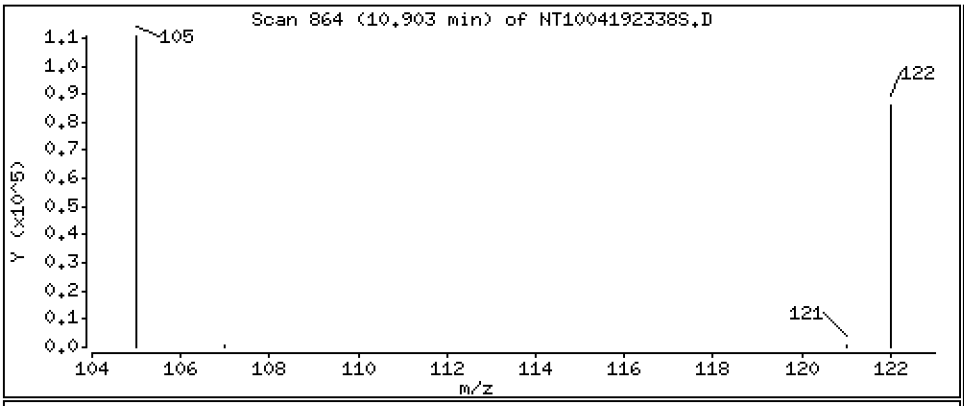
Operator: DSD

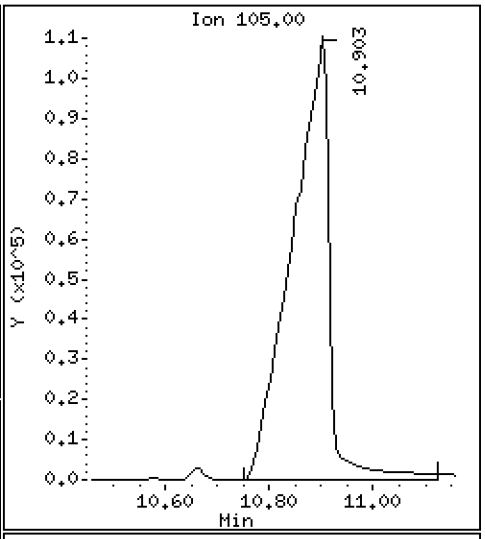
Column phase: ZB-5msi

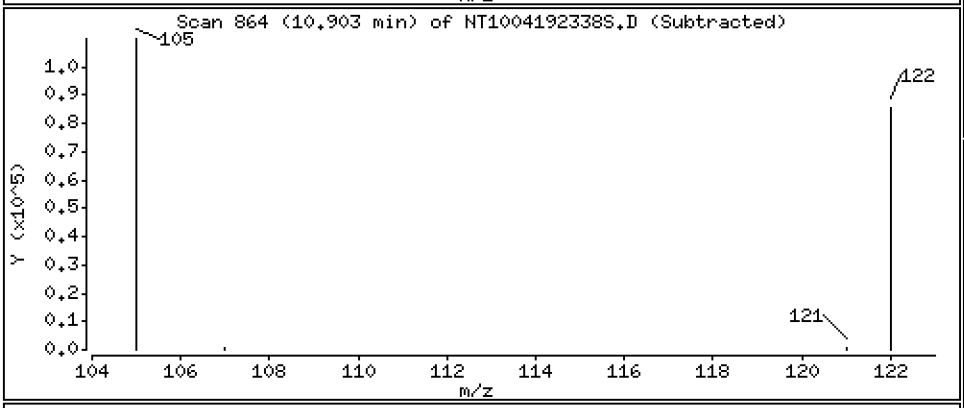
Column diameter: 0.25

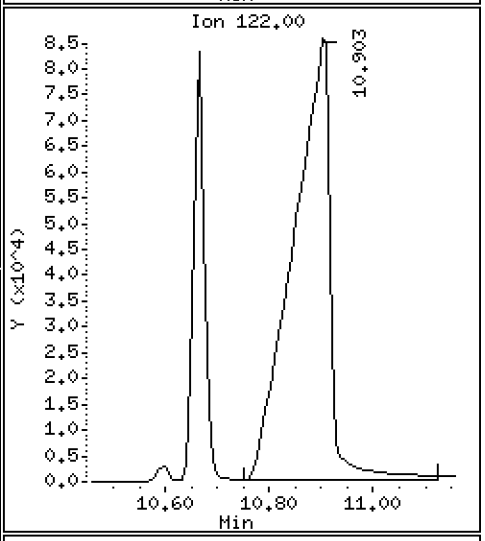
24 Benzoic acid

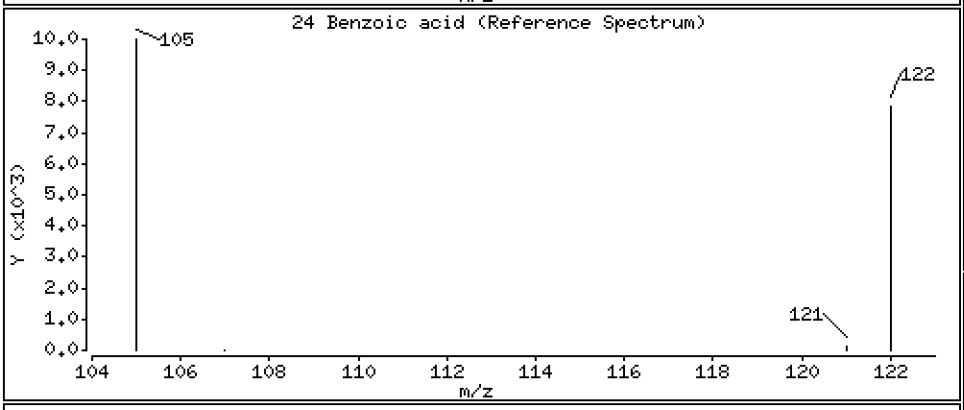
Concentration: 20.61 ug/L

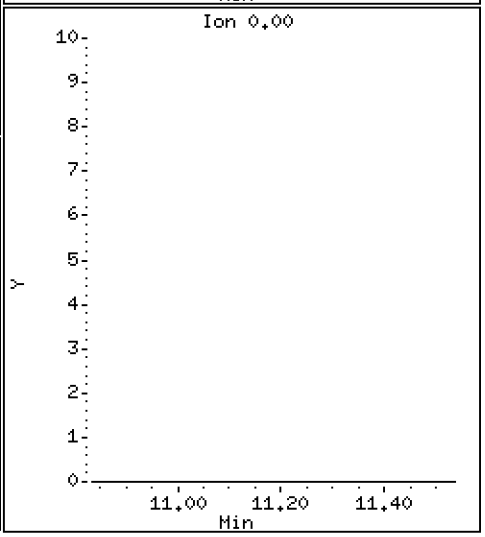


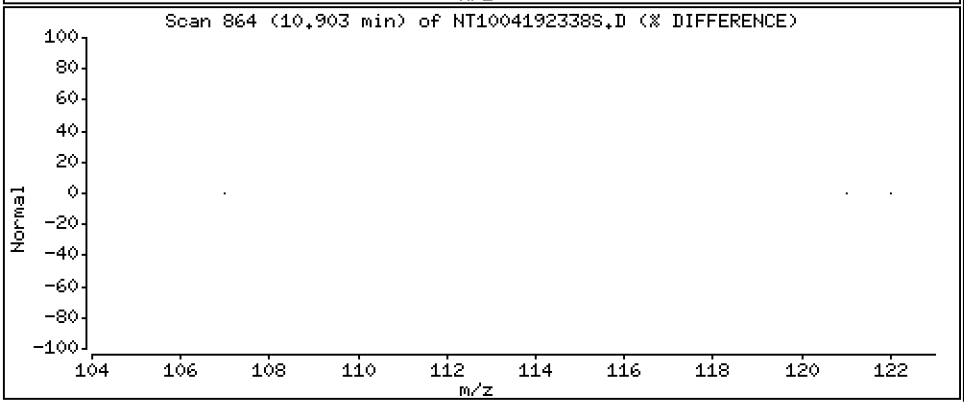












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT10041923385.D

Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS2

Volume Injected (uL): 1.0

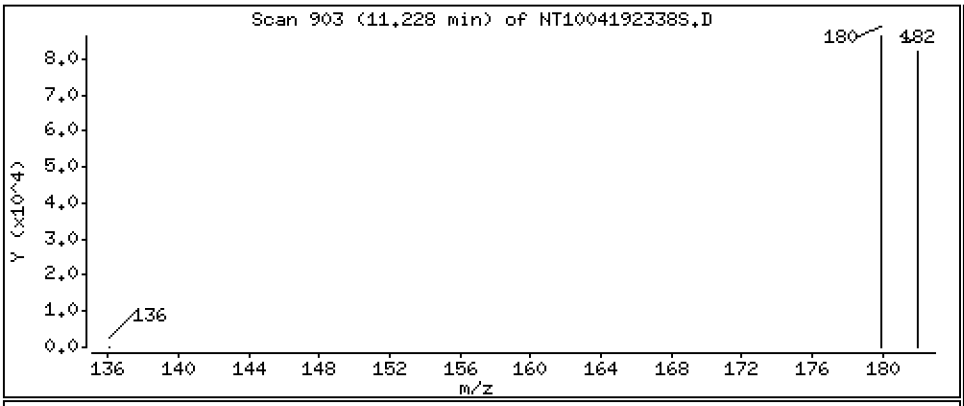
Operator: DSD

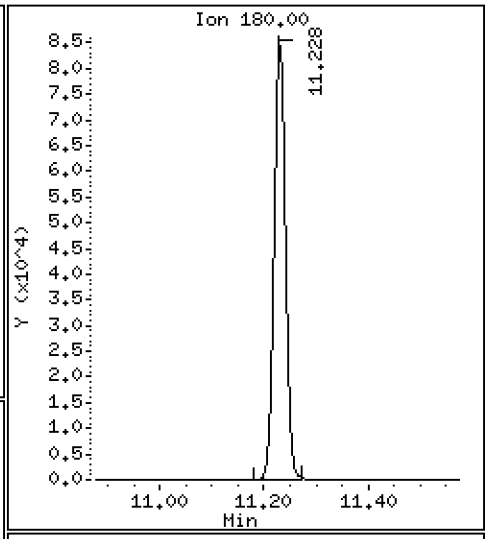
Column phase: ZB-5msi

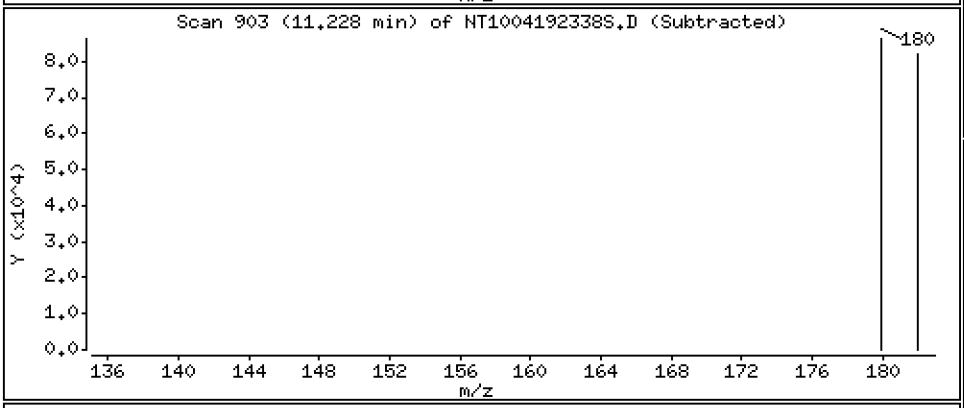
Column diameter: 0.25

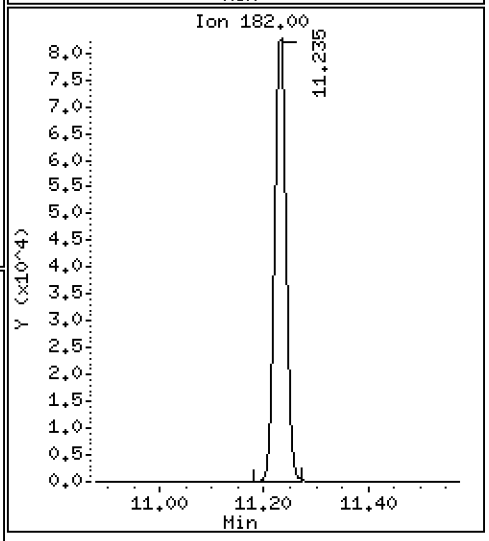
26 1,2,4-Trichlorobenzene

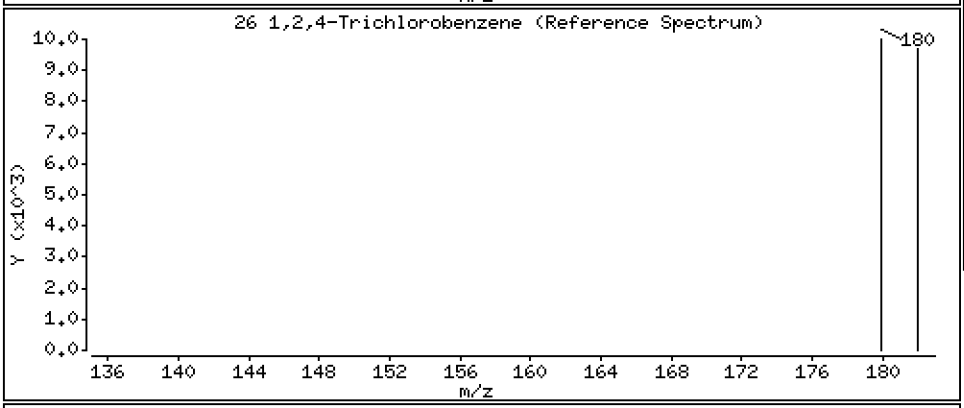
Concentration: 2.982 ug/L

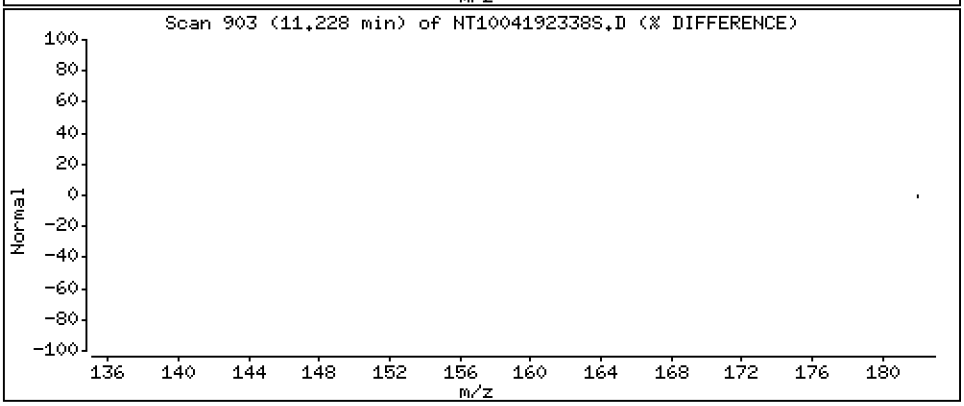












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT10041923385.D

Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS2

Volume Injected (uL): 1.0

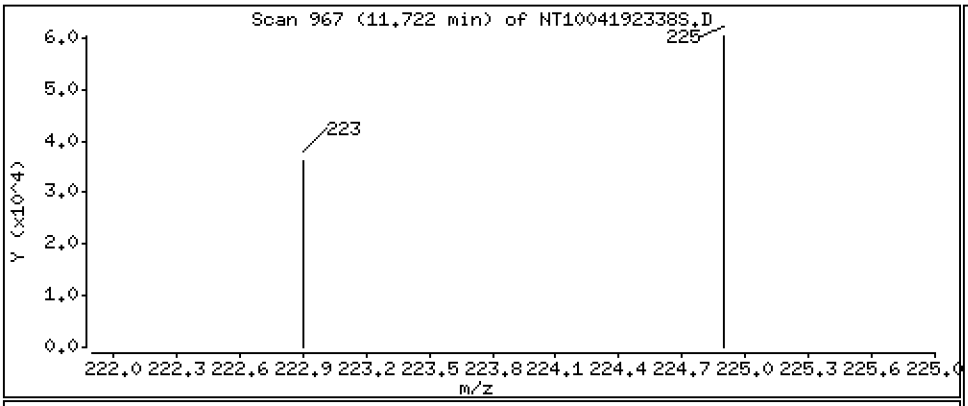
Operator: DSD

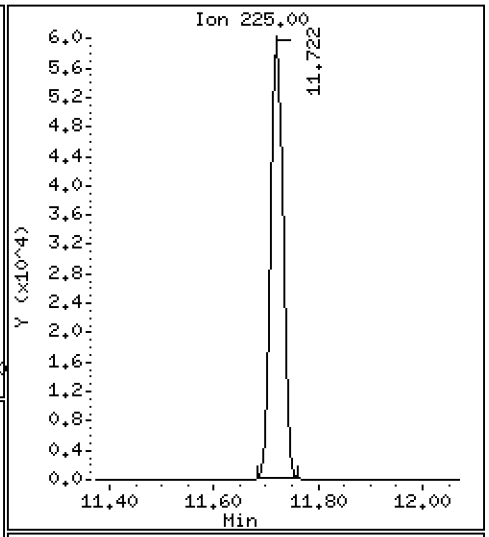
Column phase: ZB-5msi

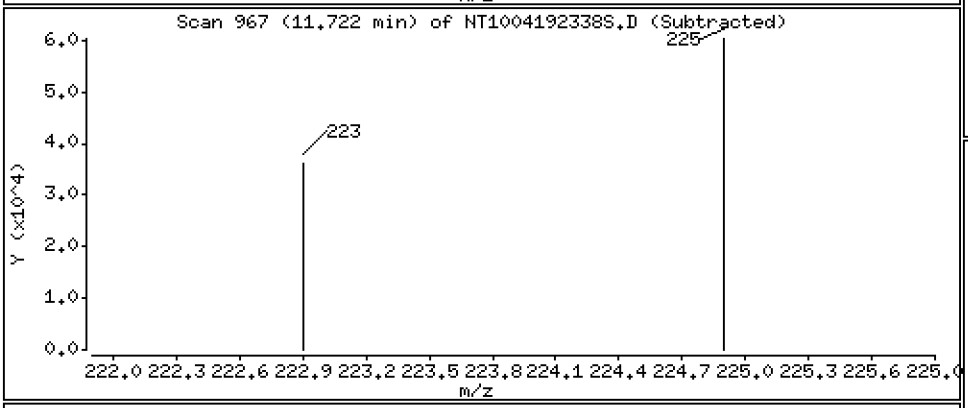
Column diameter: 0.25

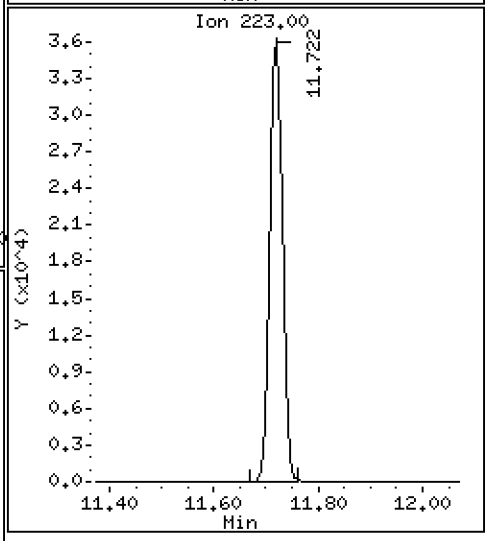
30 Hexachlorobutadiene

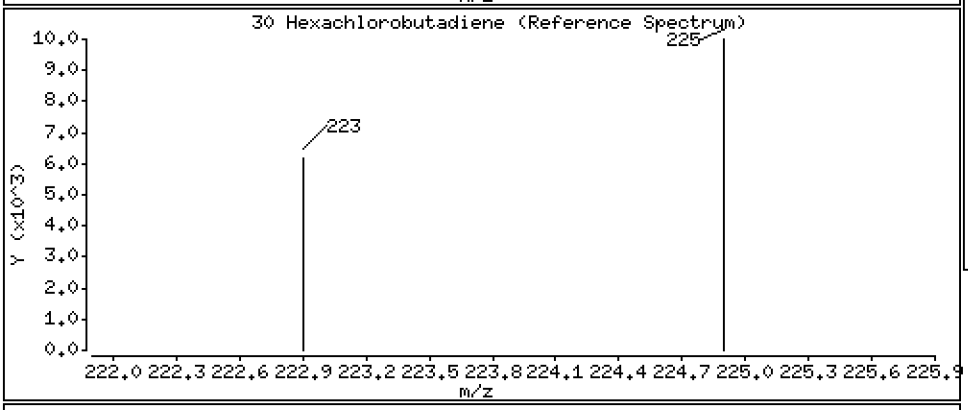
Concentration: 3.389 ug/L

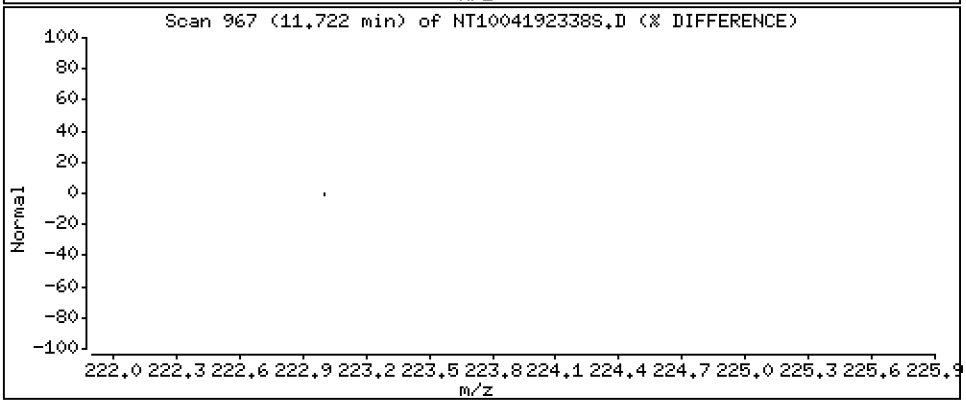












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192338S.D

Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS2

Volume Injected (uL): 1.0

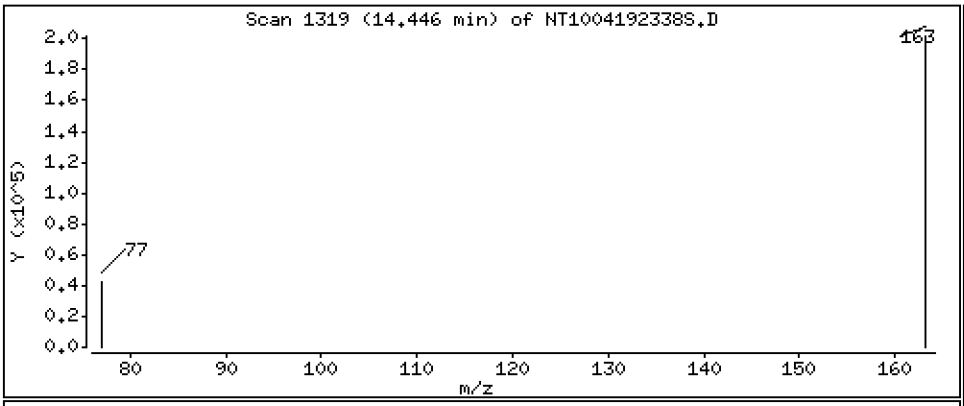
Operator: DSD

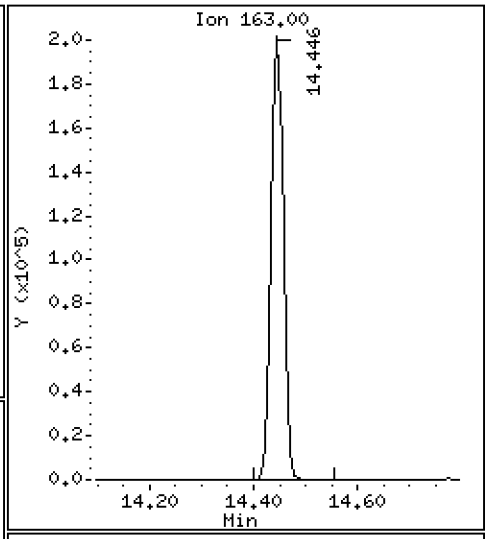
Column phase: ZB-5msi

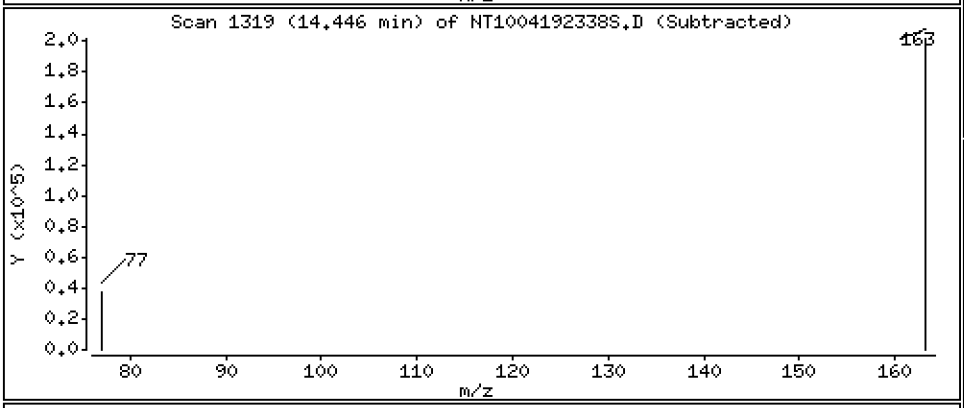
Column diameter: 0.25

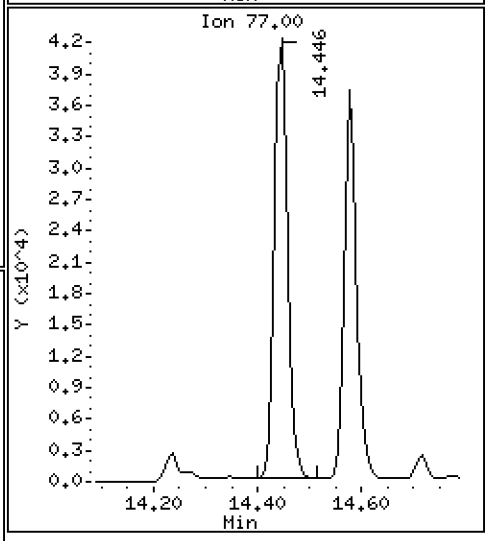
39 Dimethylphthalate

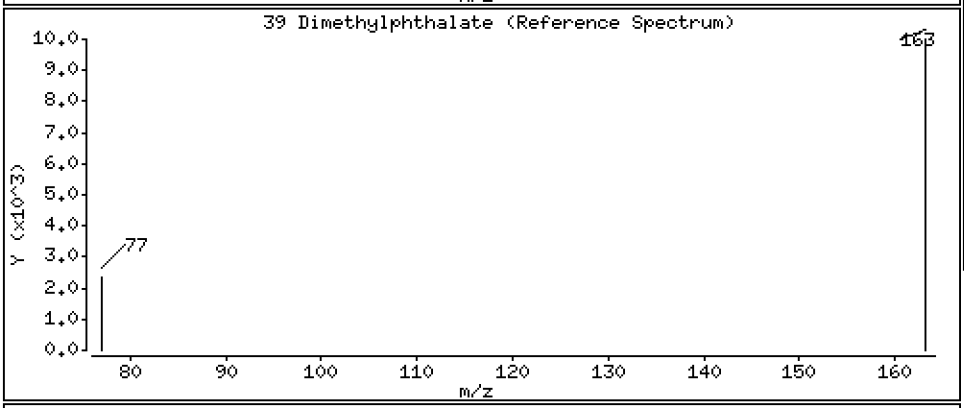
Concentration: 3.453 ug/L

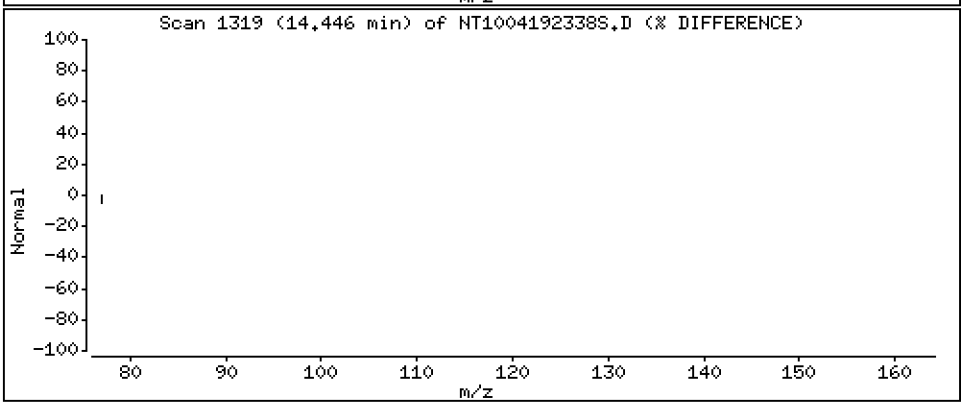












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192338S.D

Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS2

Volume Injected (uL): 1.0

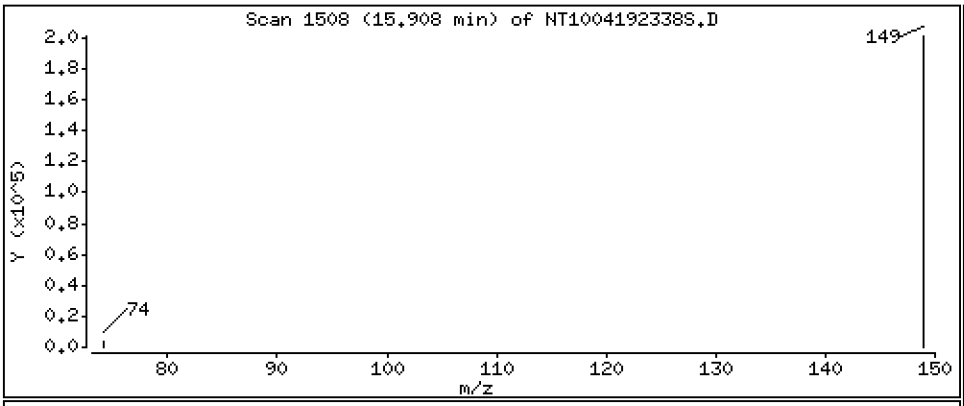
Operator: DSD

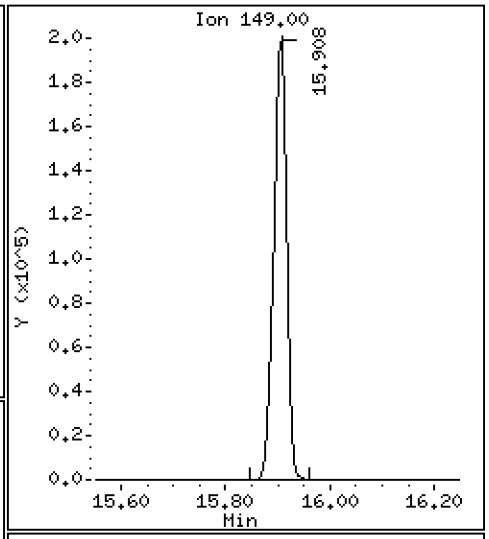
Column phase: ZB-5msi

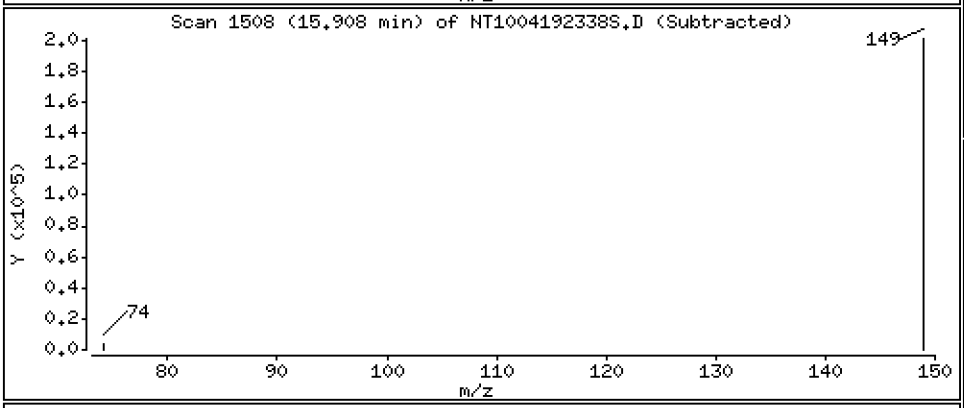
Column diameter: 0.25

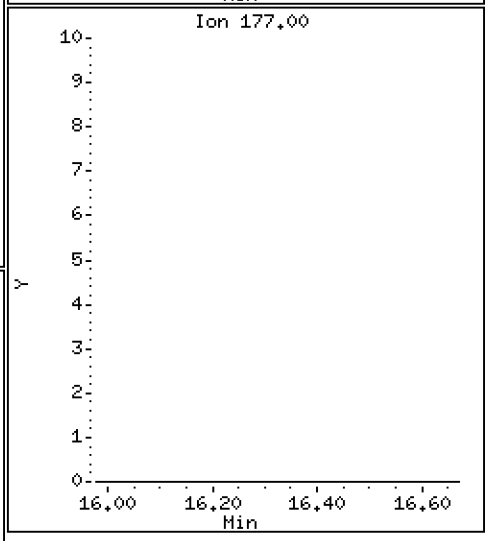
50 Diethylphthalate

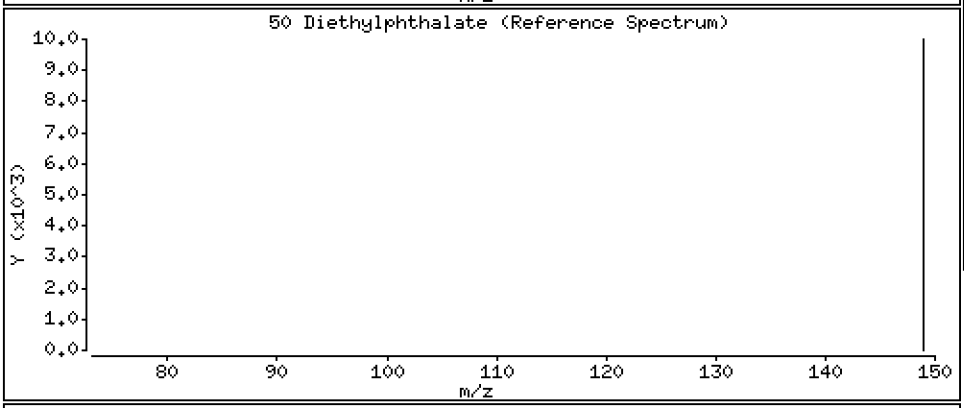
Concentration: 3.676 ug/L

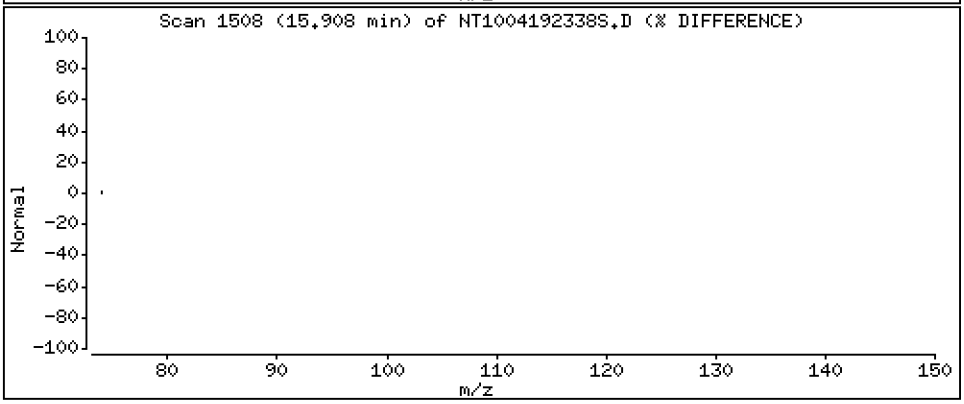












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192338S.D

Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS2

Volume Injected (uL): 1.0

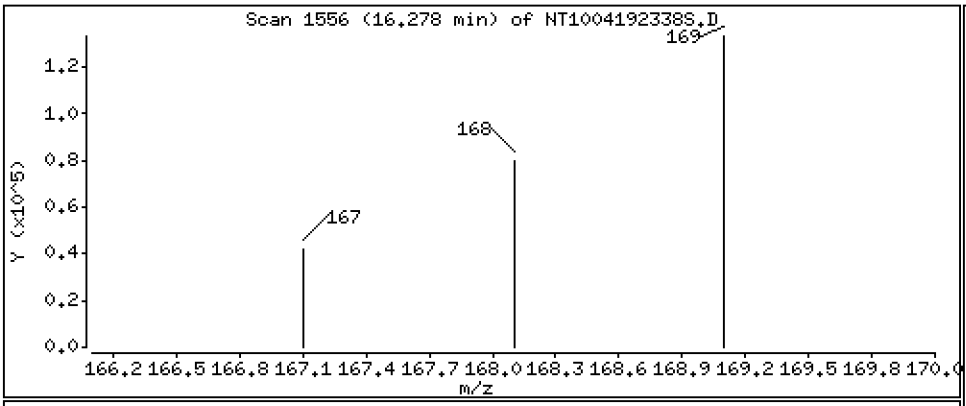
Operator: DSD

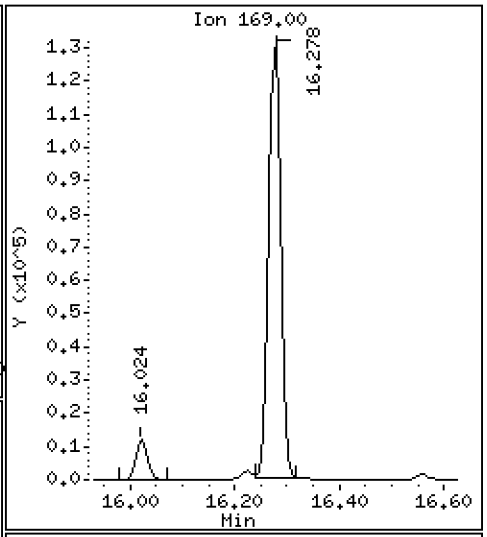
Column phase: ZB-5msi

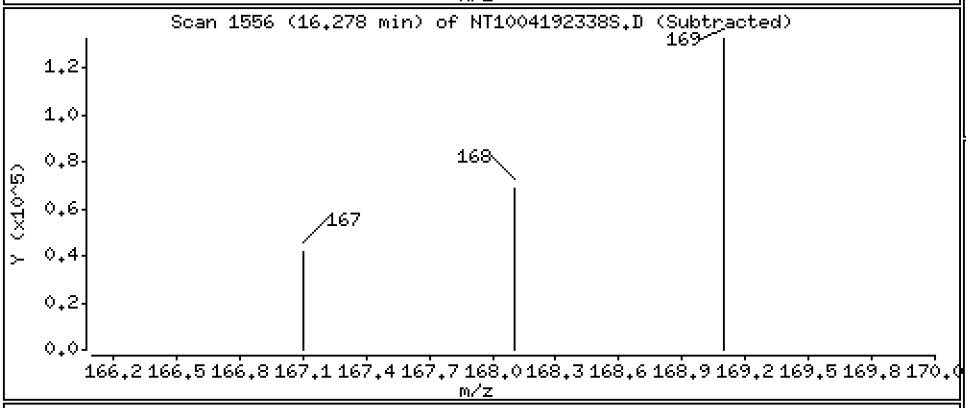
Column diameter: 0.25

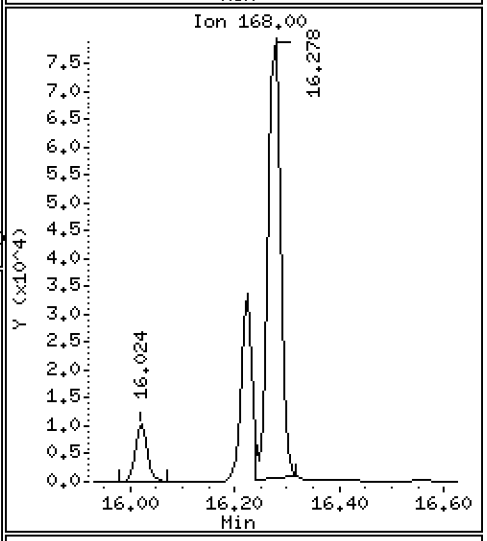
54 N-Nitrosodiphenylamine

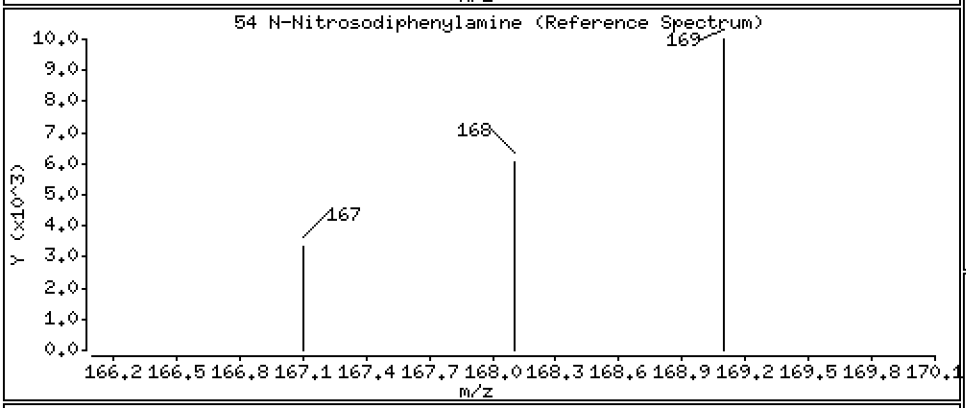
Concentration: 2.907 ug/L

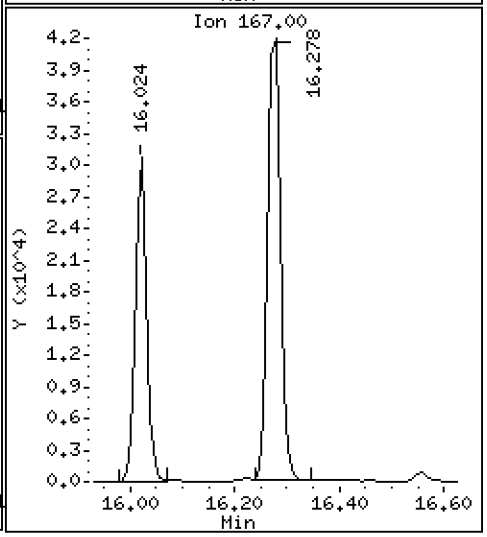


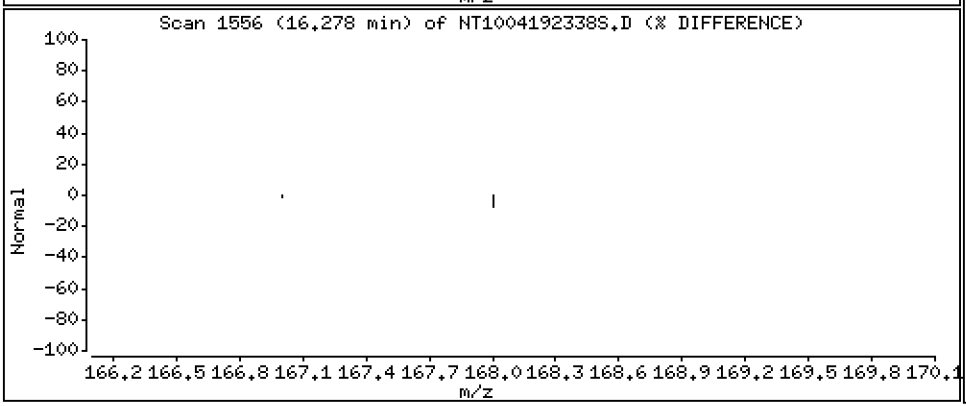












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Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS2

Volume Injected (uL): 1.0

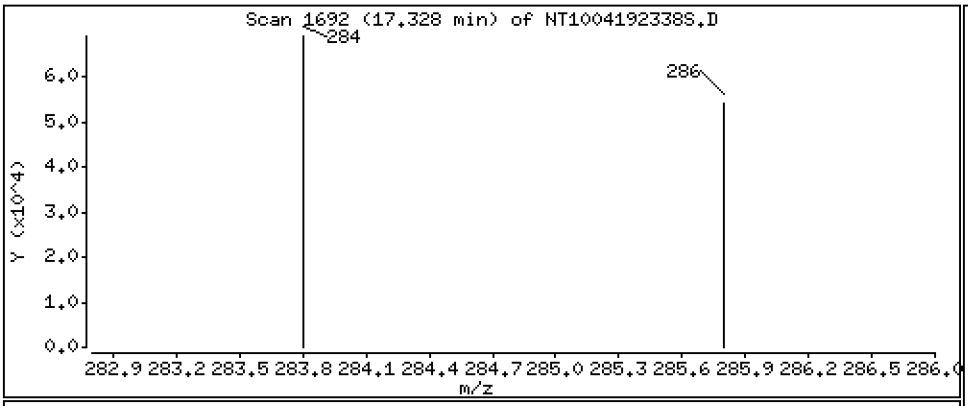
Operator: DSD

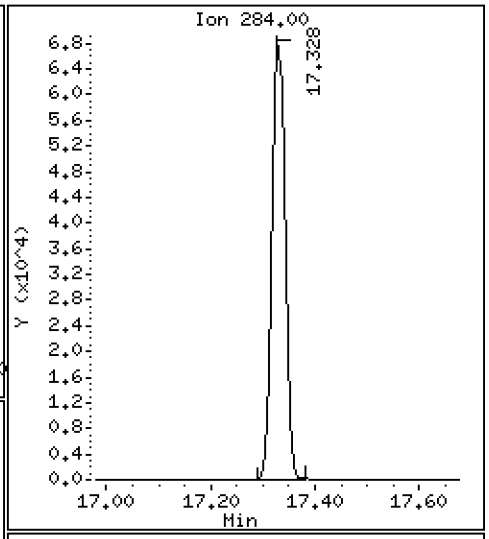
Column phase: ZB-5msi

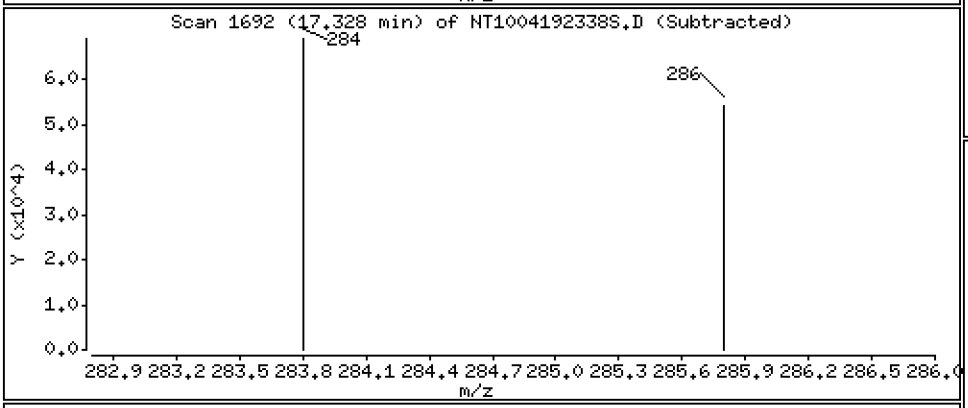
Column diameter: 0.25

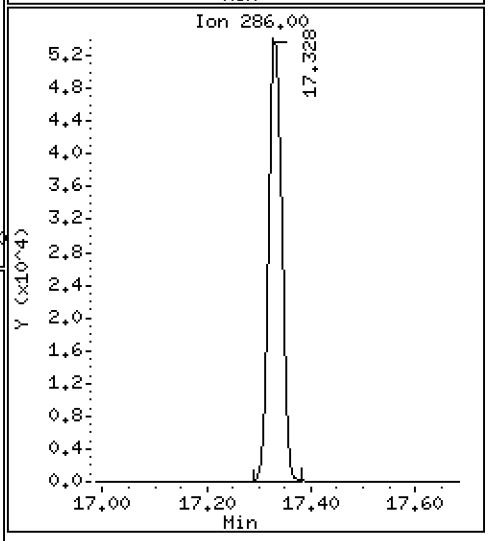
57 Hexachlorobenzene

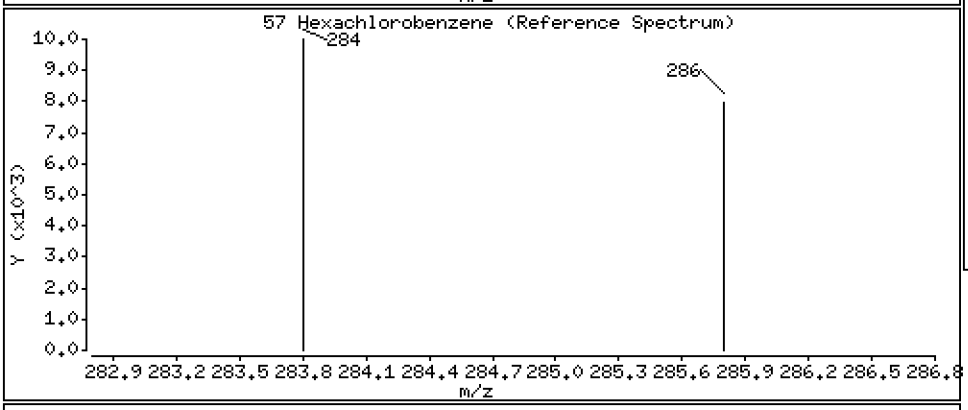
Concentration: 3.680 ug/L

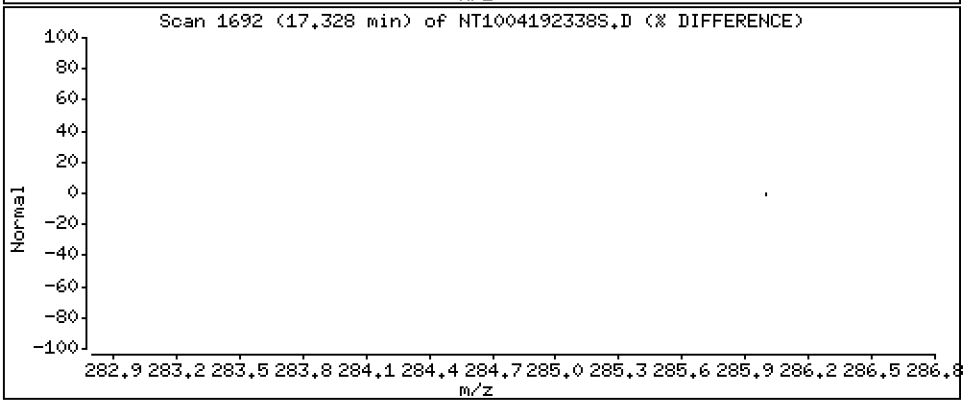












Date : 20-APR-2023 10:51

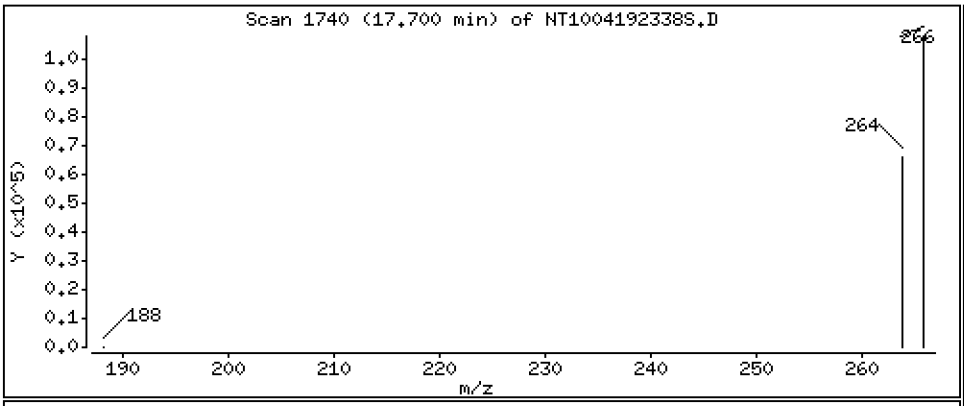
Client ID: Instrument: nt10.i

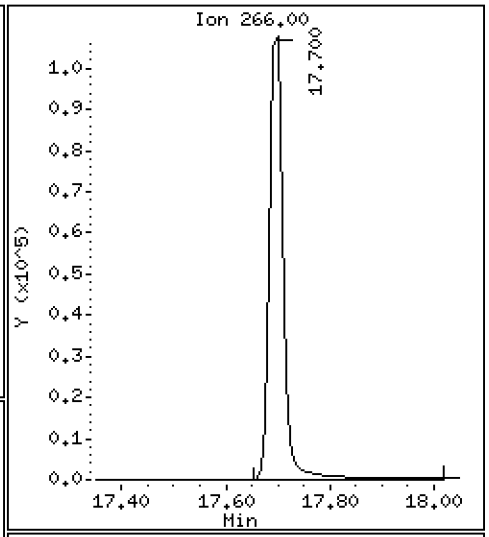
Sample Info: BLD0008-BS2

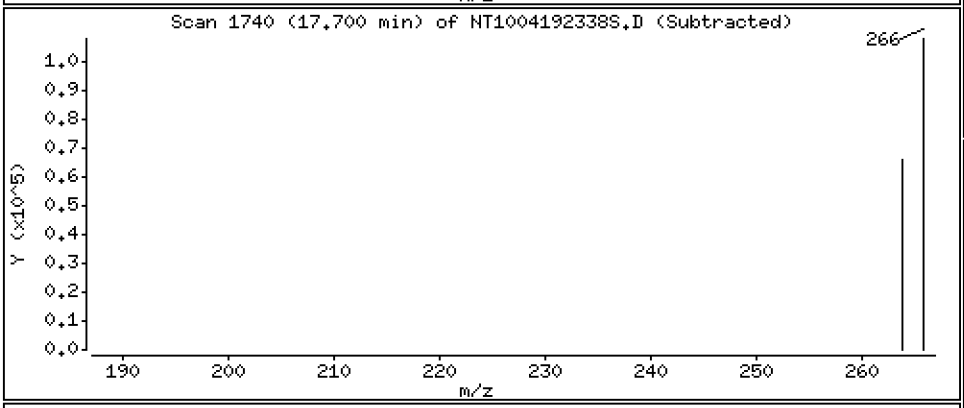
Volume Injected (uL): 1.0 Operator: DSD

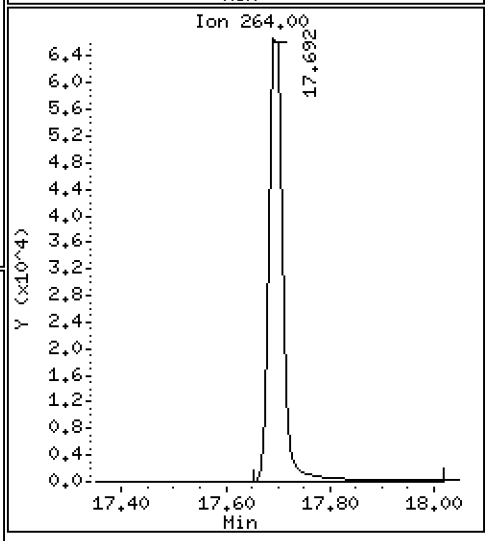
Column phase: ZB-5msi Column diameter: 0.25

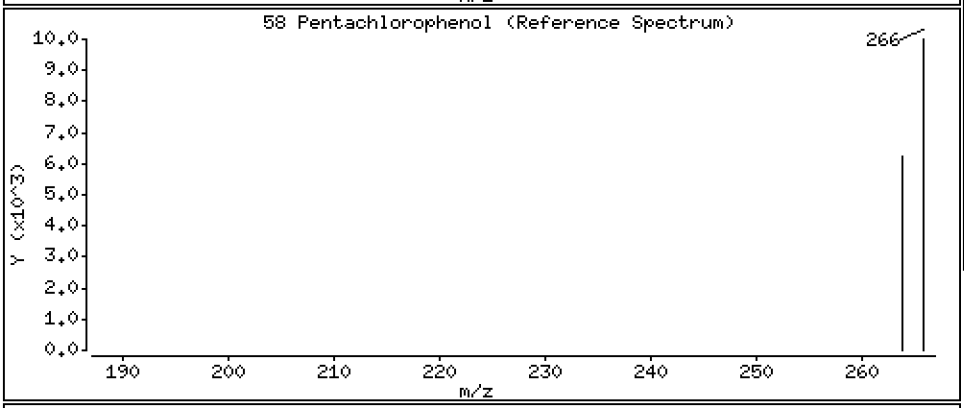
58 Pentachlorophenol Concentration: 10.53 ug/L

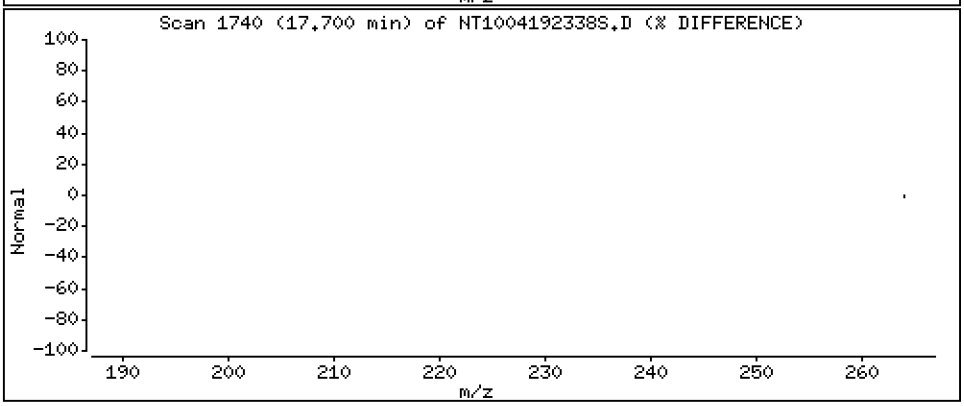












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192338S.D

Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS2

Volume Injected (uL): 1.0

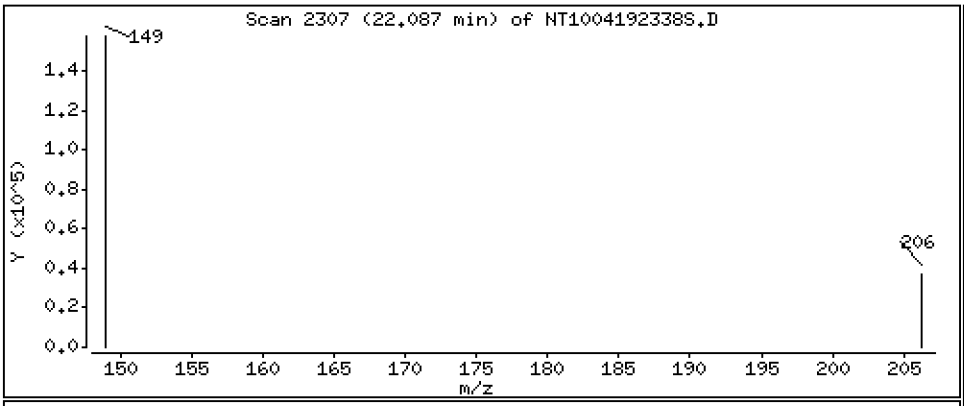
Operator: DSD

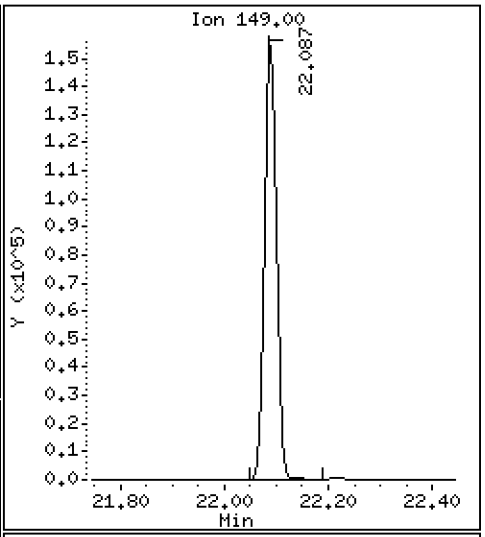
Column phase: ZB-5msi

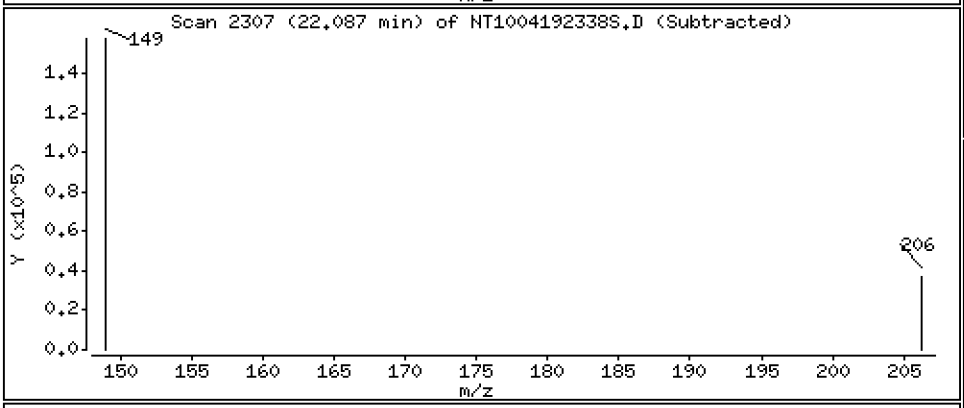
Column diameter: 0.25

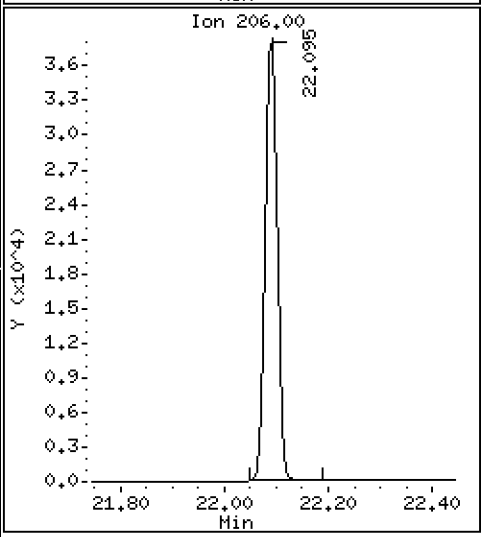
67 Butylbenzylphthalate

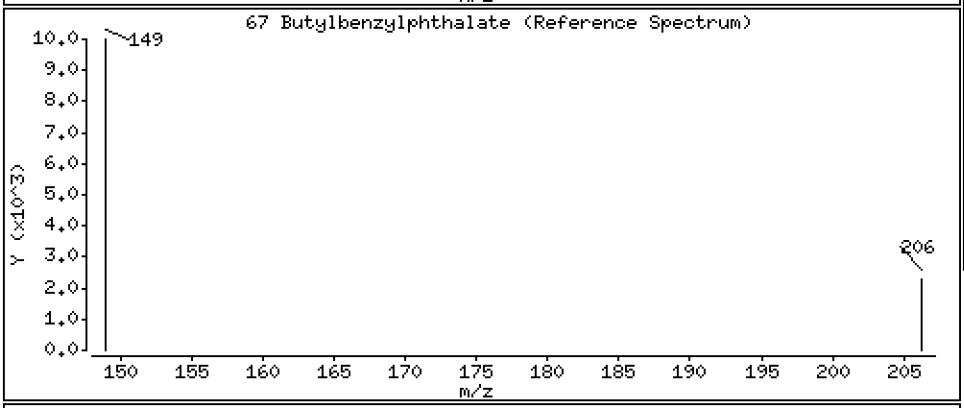
Concentration: 3.449 ug/L

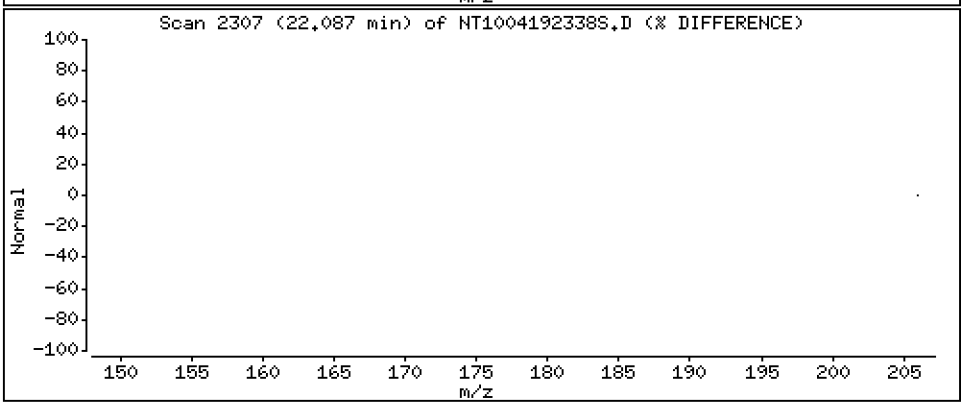












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192338S.D

Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS2

Volume Injected (uL): 1.0

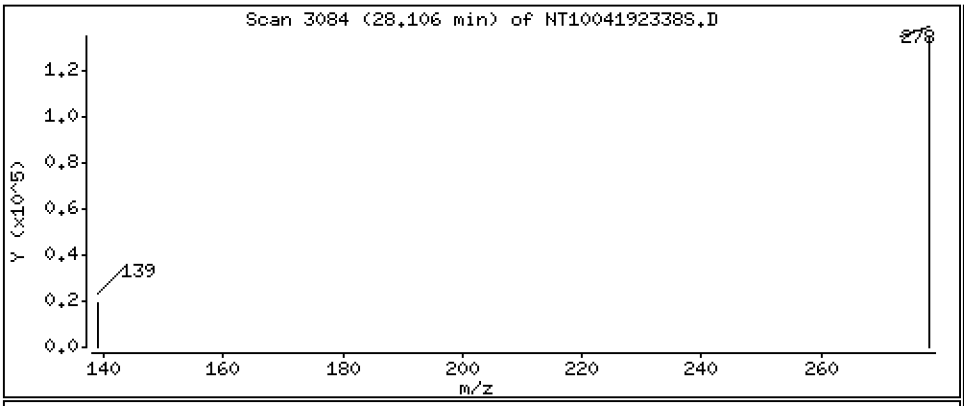
Operator: DSD

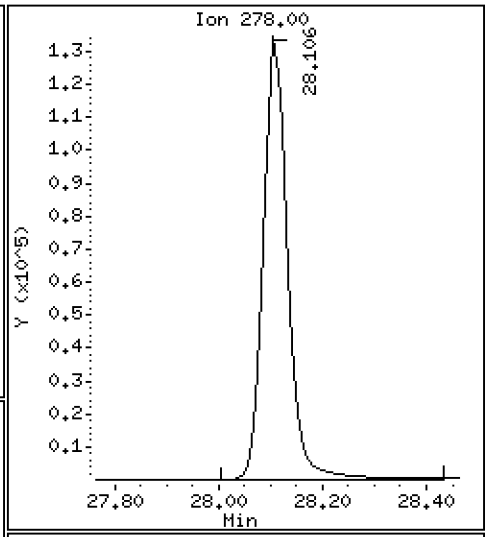
Column phase: ZB-5msi

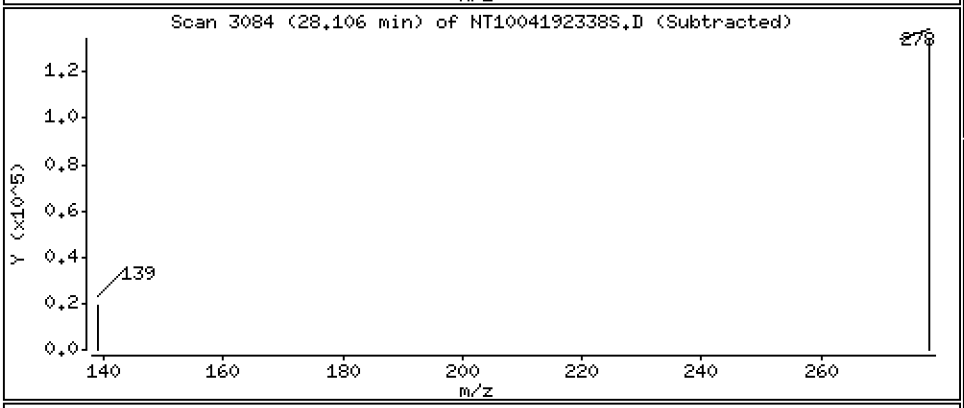
Column diameter: 0.25

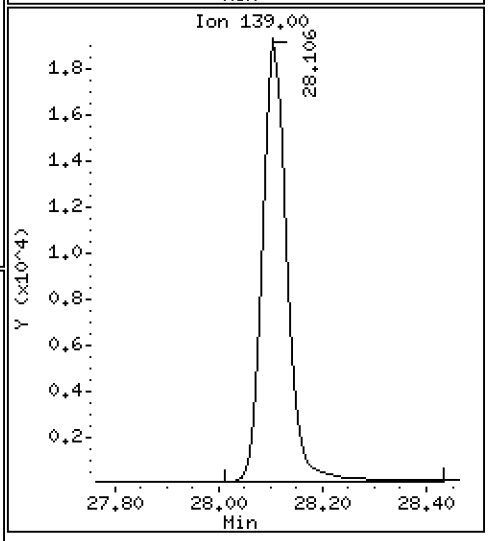
79 Dibenzo(a,h)anthracene

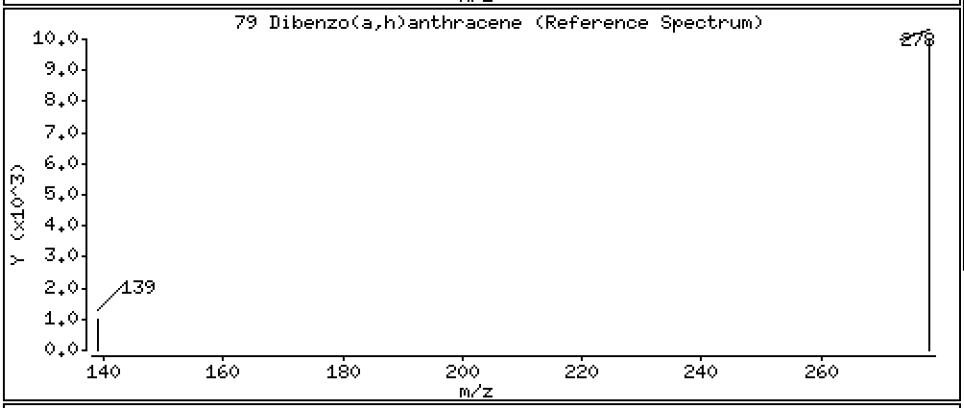
Concentration: 2.348 ug/L

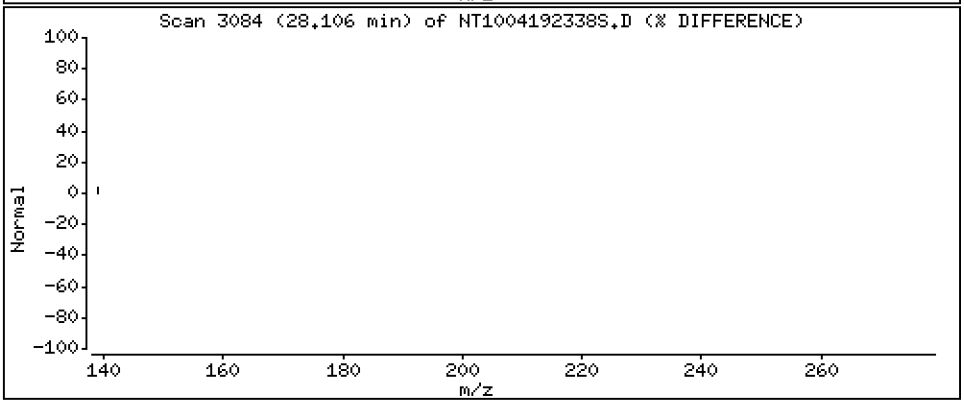












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192338S.D

Date : 20-APR-2023 10:51

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BS2

Volume Injected (uL): 1.0

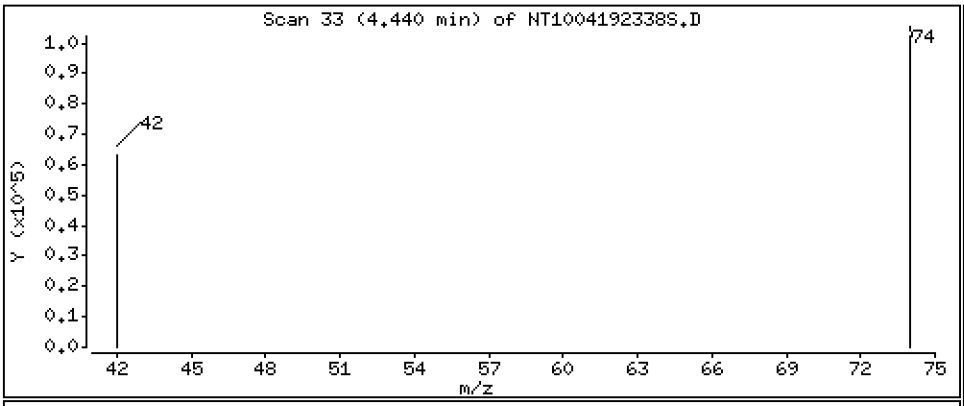
Operator: DSD

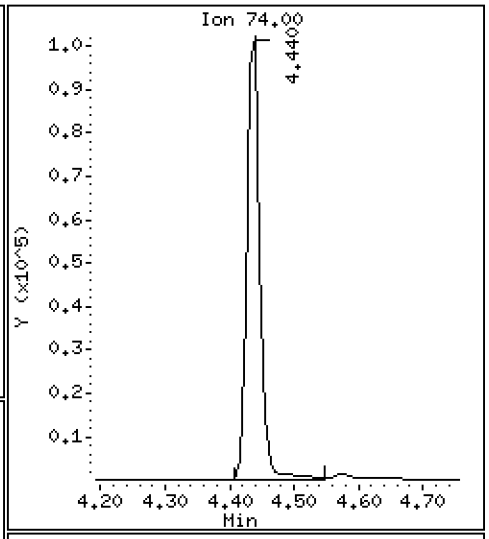
Column phase: ZB-5msi

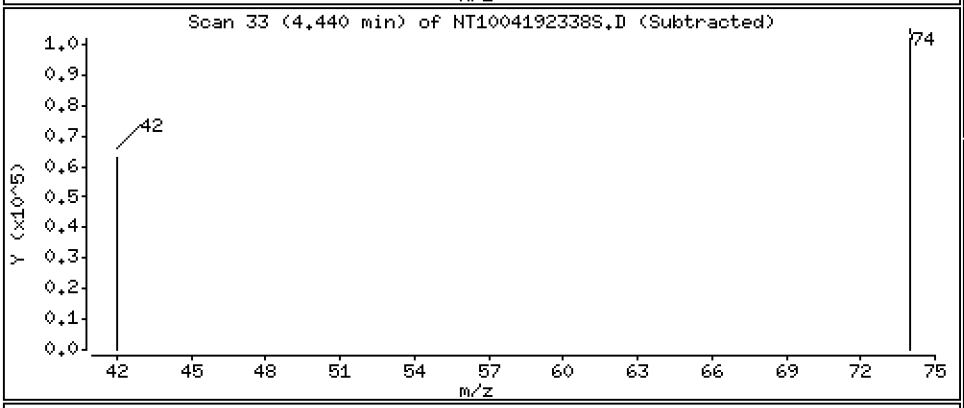
Column diameter: 0.25

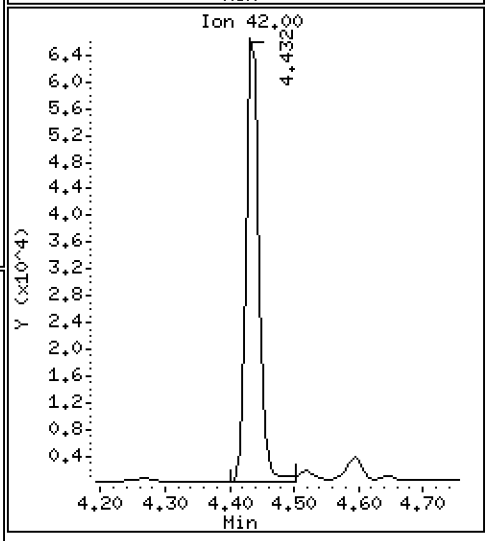
90 N-Nitrosodimethylamine

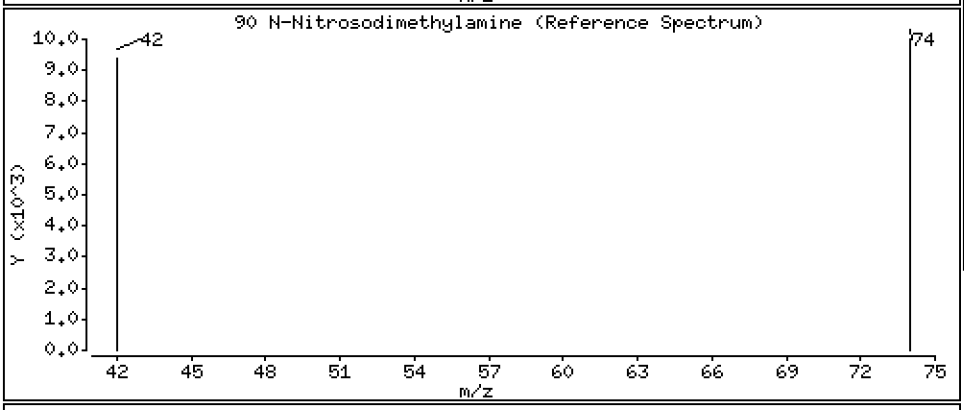
Concentration: 5.498 ug/L

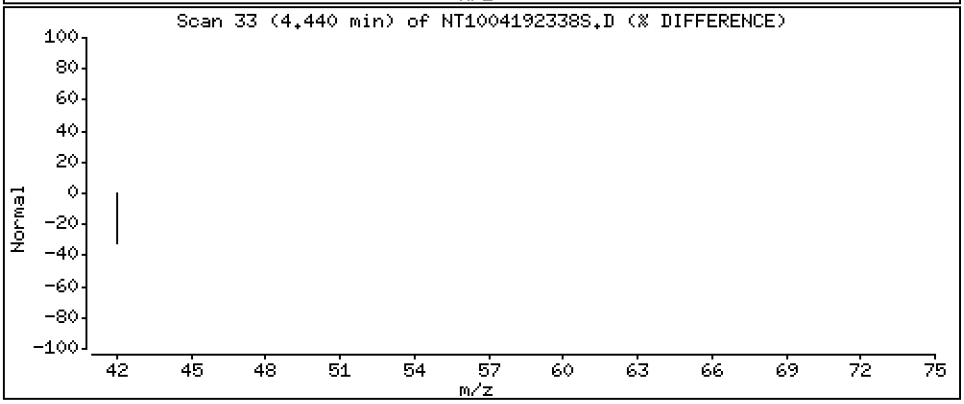












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192338S.D
Lab Smp Id: BLD0008-BS2
Inj Date : 20-APR-2023 10:51 MS Autotune Date: 16-JAN-2023 17:42
Operator : DSD Inst ID: nt10.i
Smp Info : BLD0008-BS2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\SIMABN2.m
Meth Date : 21-Apr-2023 13:41 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.625	6.617	(0.750)	194997	4.60049	4.600(R)
3	Phenol	94	8.240	8.240	(0.933)	160380	2.75799	2.758
7	1,3-Dichlorobenzene	146	8.766	8.766	(0.992)	160075	2.94180	2.942
* 8	1,4-Dichlorobenzene-d4	152	8.835	8.835	(1.000)	139775	4.00000	
9	1,4-Dichlorobenzene	146	8.859	8.859	(1.003)	161743	3.07921	3.079
11	Benzyl alcohol	79	9.115	9.115	(1.032)	102268	3.03355	3.034
12	1,2-Dichlorobenzene	146	9.216	9.216	(1.043)	157356	3.04612	3.046
13	2-Methylphenol	108	9.348	9.348	(1.058)	104348	2.58969	2.590
15	4-Methylphenol	108	9.627	9.627	(1.090)	121224	2.89527	2.895
16	N-Nitroso-di-n-propylamine	70	9.674	9.674	(1.095)	83349	2.81485	2.815
22	2,4-Dimethylphenol	107	10.665	10.656	(0.943)	146590	3.25299	3.253
24	Benzoic acid	105	10.902	10.809	(0.964)	556378	20.6060	20.61
26	1,2,4-Trichlorobenzene	180	11.227	11.227	(0.992)	135172	2.98180	2.982
* 27	Naphthalene-d8	136	11.312	11.312	(1.000)	521339	4.00000	
30	Hexachlorobutadiene	225	11.721	11.721	(1.036)	93393	3.38859	3.389
39	Dimethylphthalate	163	14.446	14.446	(0.968)	313328	3.45324	3.453
* 42	Acenaphthene-d10	162	14.918	14.918	(1.000)	287526	4.00000	
50	Diethylphthalate	149	15.907	15.900	(1.066)	345502	3.67567	3.676
54	N-Nitrosodiphenylamine	169	16.278	16.278	(0.907)	198505	2.90683	2.907
57	Hexachlorobenzene	284	17.327	17.327	(0.965)	112498	3.67998	3.680

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.699	17.699	(0.986)	189770	10.5279	10.53
*	59 Phenanthrene-d10	188	17.947	17.947	(1.000)	508983	4.00000	
$	66 Terphenyl-d14	244	21.134	21.142	(0.917)	243572	2.97482	2.975(R)
	67 Butylbenzylphthalate	149	22.087	22.094	(0.958)	236948	3.44868	3.449
*	69 Chrysene-d12	240	23.047	23.047	(1.000)	502516	4.00000	
*	77 Perylene-d12	264	25.594	25.594	(1.000)	566119	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.105	28.113	(1.098)	430472	2.34819	2.348
	90 N-Nitrosodimethylamine	74	4.439	4.408	(0.502)	147801	5.49797	5.498

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192338S.D
Lab Smp Id: BLD0008-BS2
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\SIMABN2.m
Misc Info:

Calibration Date: 20-APR-2023
Calibration Time: 08:57
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	128281	64141	256562	139775	8.96
27 Naphthalene-d8	458707	229354	917414	521339	13.65
42 Acenaphthene-d10	243296	121648	486592	287526	18.18
59 Phenanthrene-d10	433853	216927	867706	508983	17.32
69 Chrysene-d12	435413	217707	870826	502516	15.41
77 Perylene-d12	490854	245427	981708	566119	15.33

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.84	8.34	9.34	8.84	0.00
27 Naphthalene-d8	11.31	10.81	11.81	11.31	0.00
42 Acenaphthene-d10	14.92	14.42	15.42	14.92	0.00
59 Phenanthrene-d10	17.95	17.45	18.45	17.95	0.00
69 Chrysene-d12	23.05	22.55	23.55	23.05	0.00
77 Perylene-d12	25.59	25.09	26.09	25.59	0.00

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

REVIEW SUMMARY FOR FILE - NT1004192338S.D

Lab ID: BLD0008-BS2
nt10.i, 20230419B.b\20230419B.b\SIMABN2.m,   20-APR-2023 10:51

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.964	0.956	0.0082	Benzoic acid

RRT check based on Ccal File: 20230419B.b/NT1004192335S.D

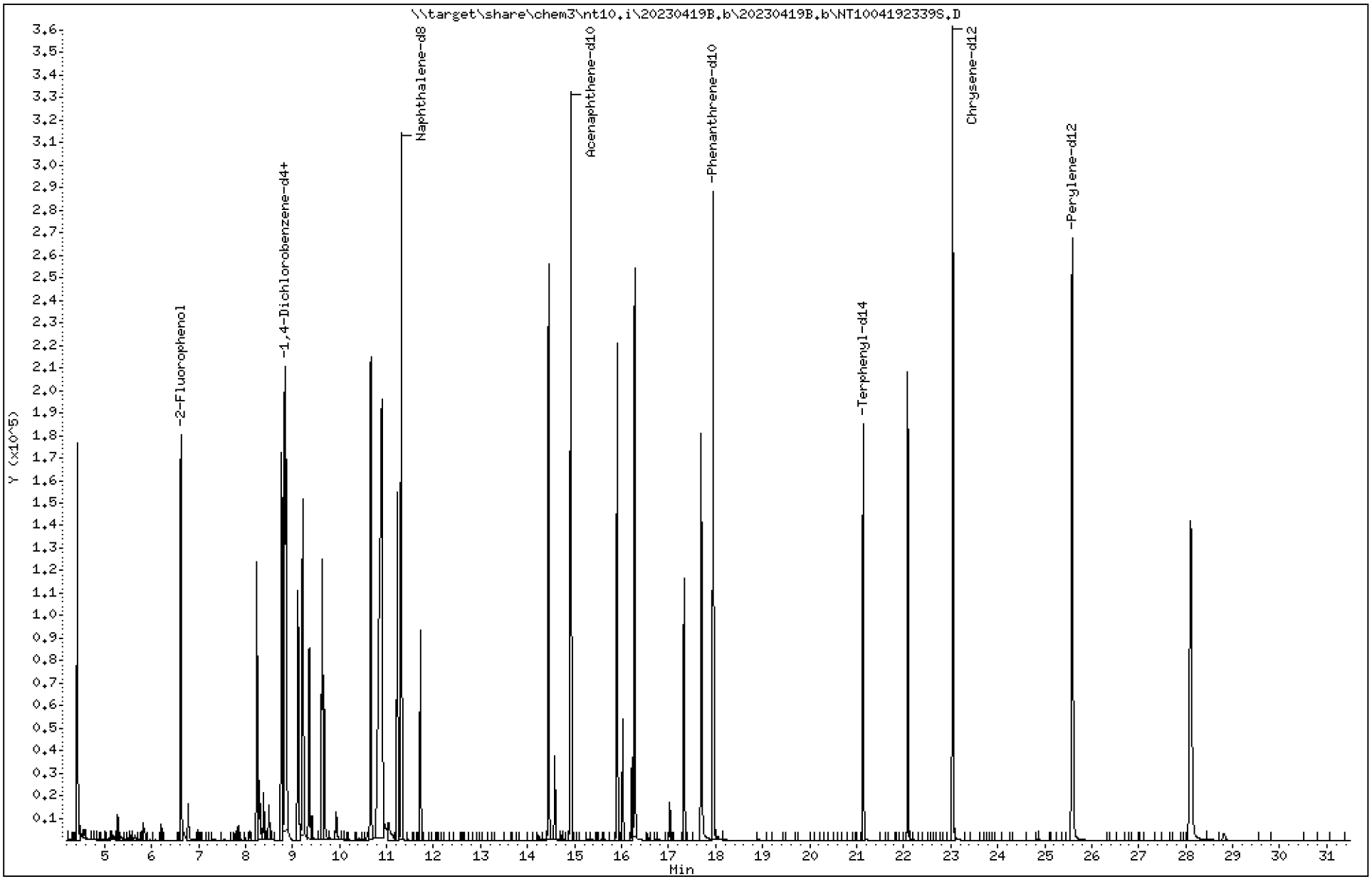
On Column LOD for nt10.i, 20230419B.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT10041923395.D
Date : 20-APR-2023 11:29
Client ID:
Sample Info: BLD0008-BSD2
Volume Injected (uL): 1.0
Column phase: ZB-5msi

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



Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192339S.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD2

Volume Injected (uL): 1.0

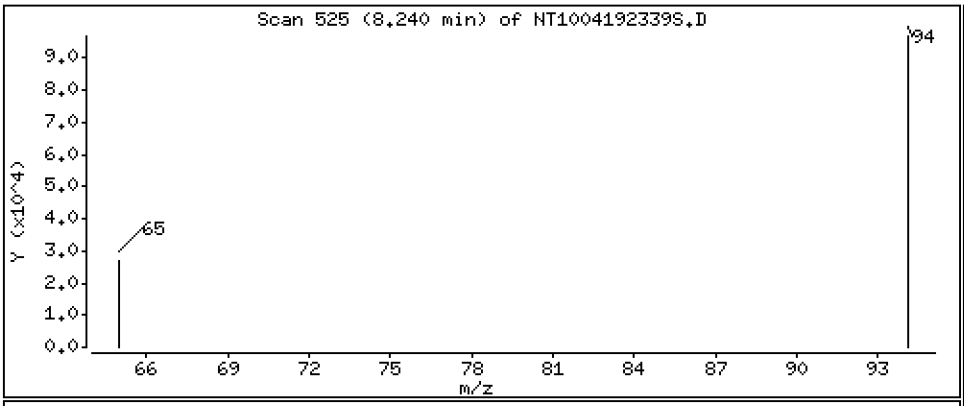
Operator: DSD

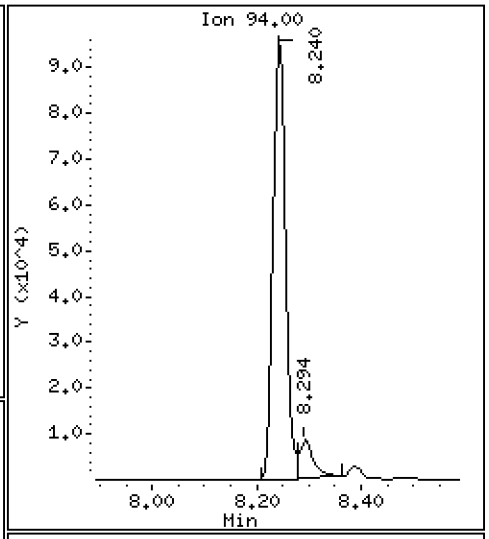
Column phase: ZB-5msi

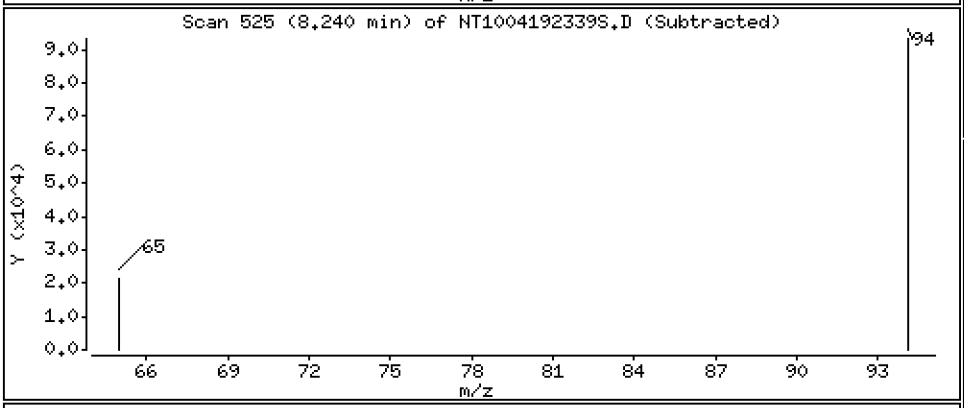
Column diameter: 0.25

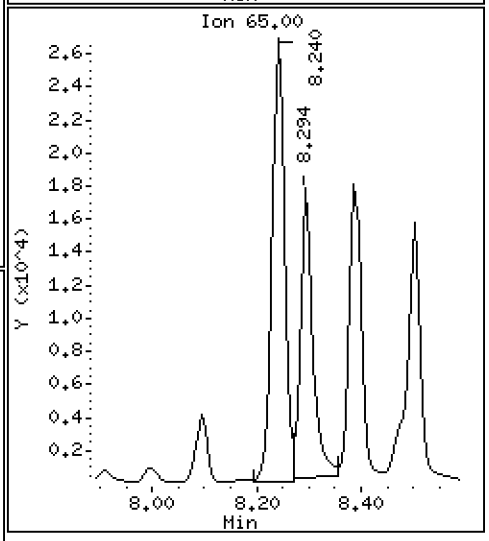
3 Phenol

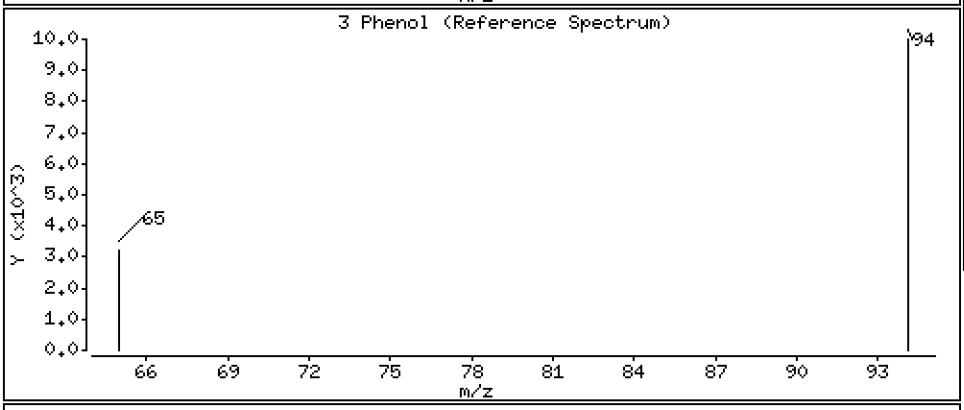
Concentration: 2.813 ug/L

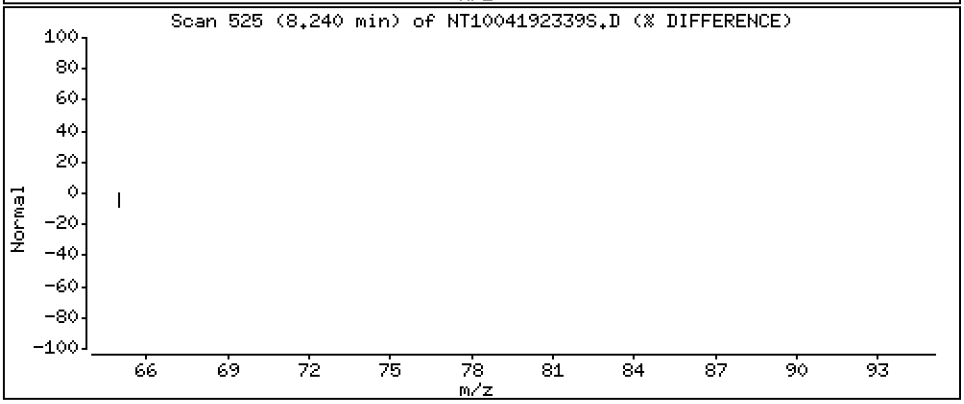












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192339S.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD2

Volume Injected (uL): 1.0

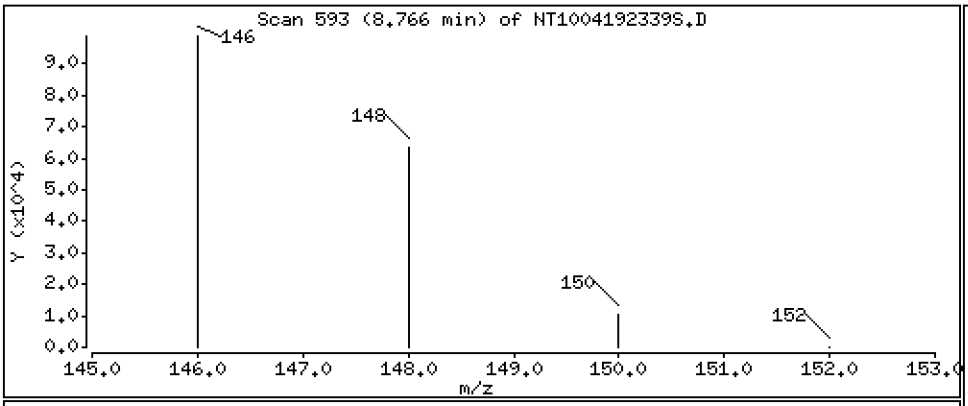
Operator: DSD

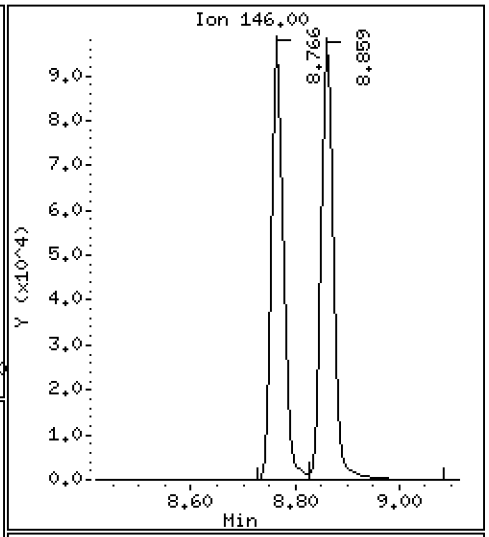
Column phase: ZB-5msi

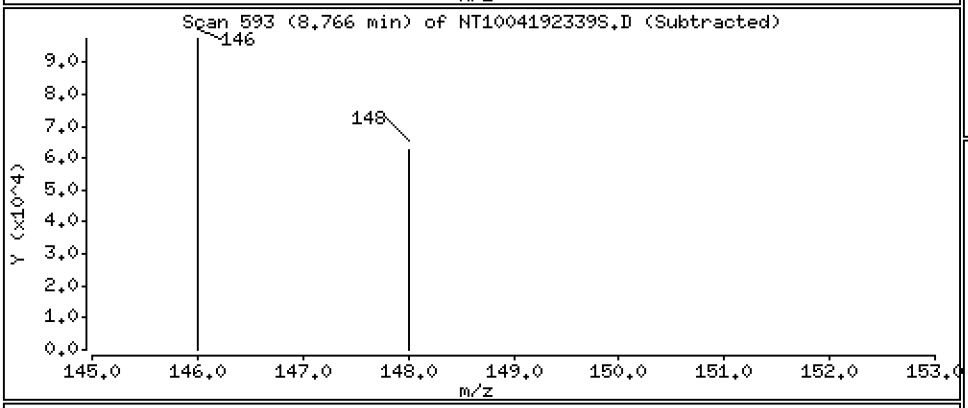
Column diameter: 0.25

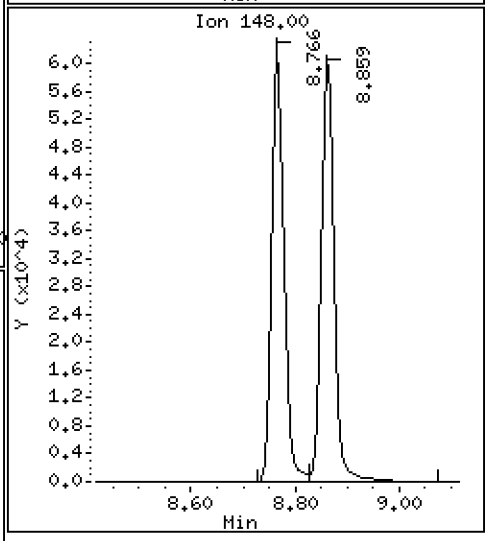
7 1,3-Dichlorobenzene

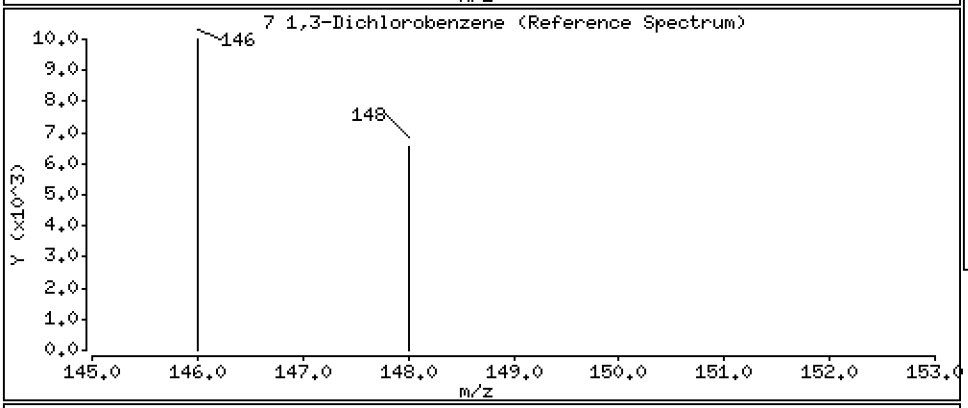
Concentration: 3.023 ug/L

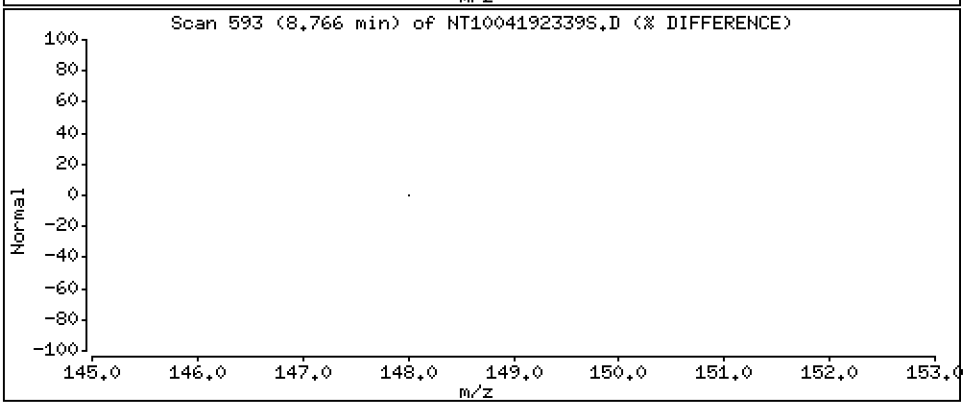












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192339S.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD2

Volume Injected (uL): 1.0

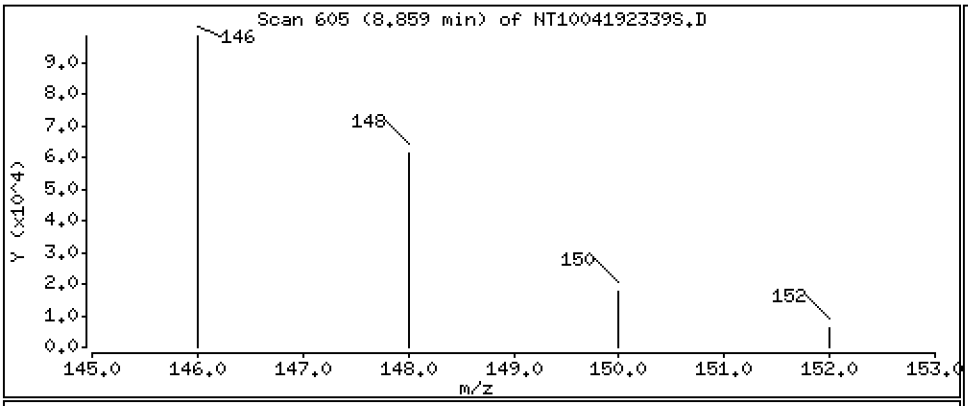
Operator: DSD

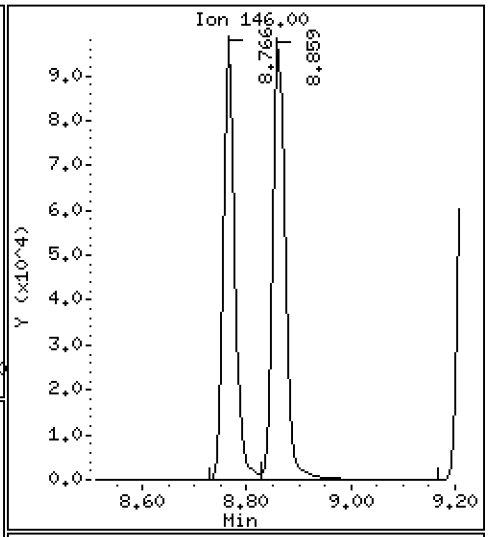
Column phase: ZB-5msi

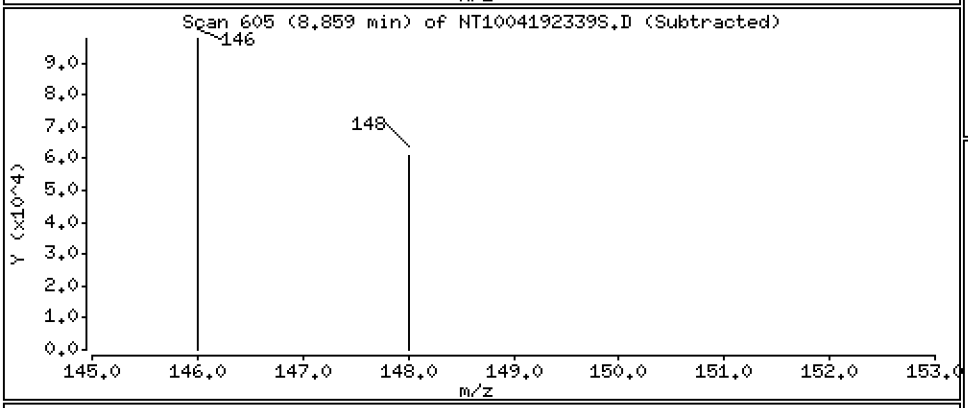
Column diameter: 0.25

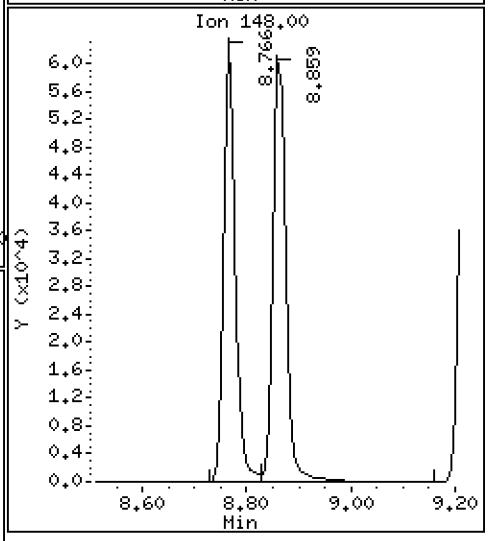
9 1,4-Dichlorobenzene

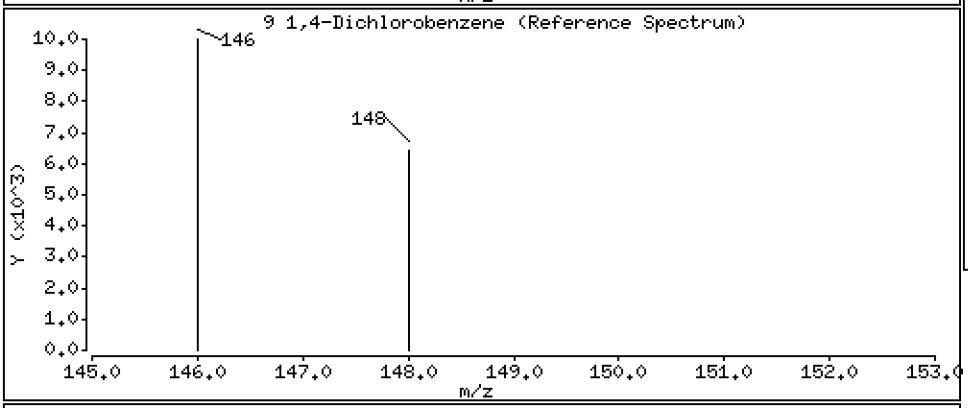
Concentration: 3.166 ug/L

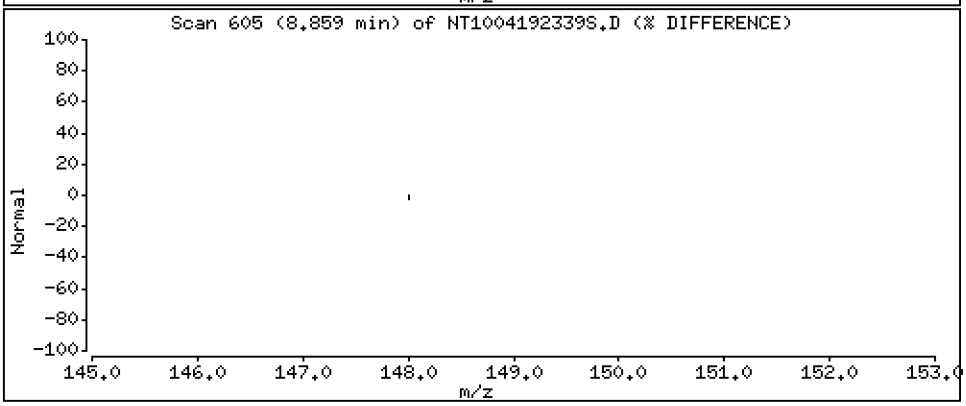












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192339S.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD2

Volume Injected (uL): 1.0

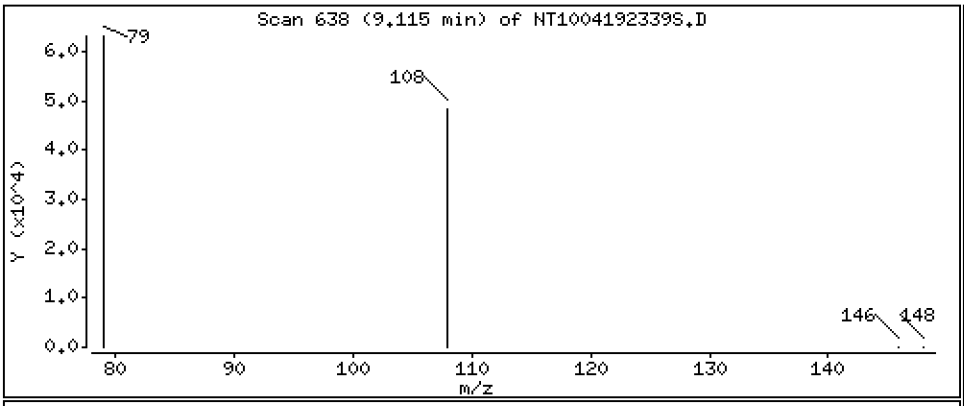
Operator: DSD

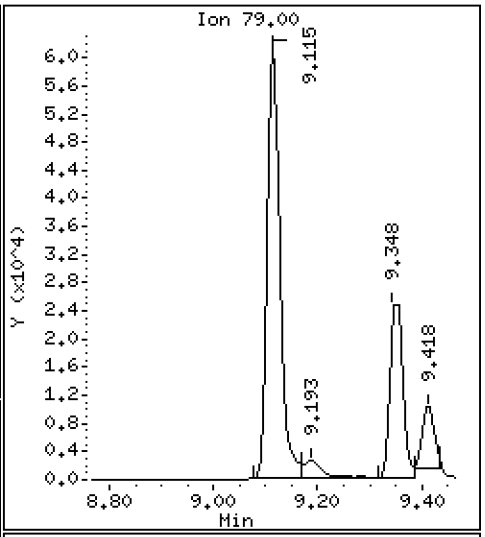
Column phase: ZB-5msi

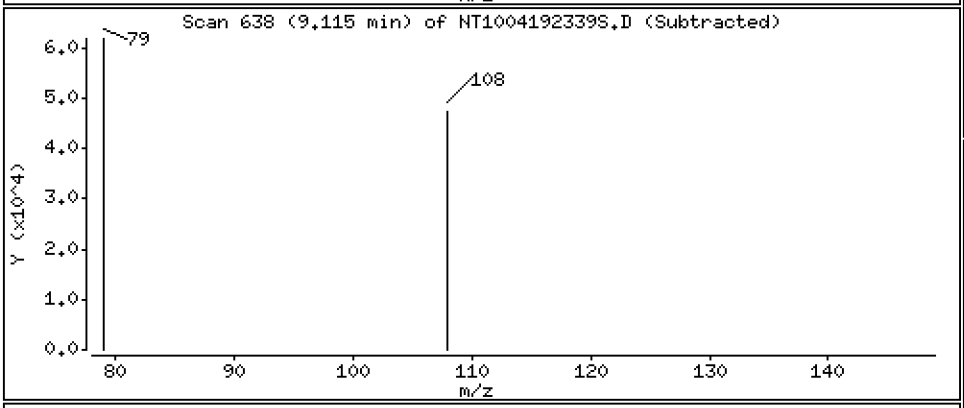
Column diameter: 0.25

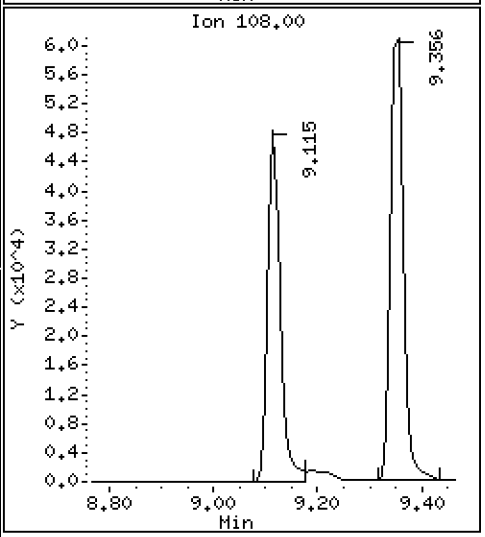
11 Benzyl alcohol

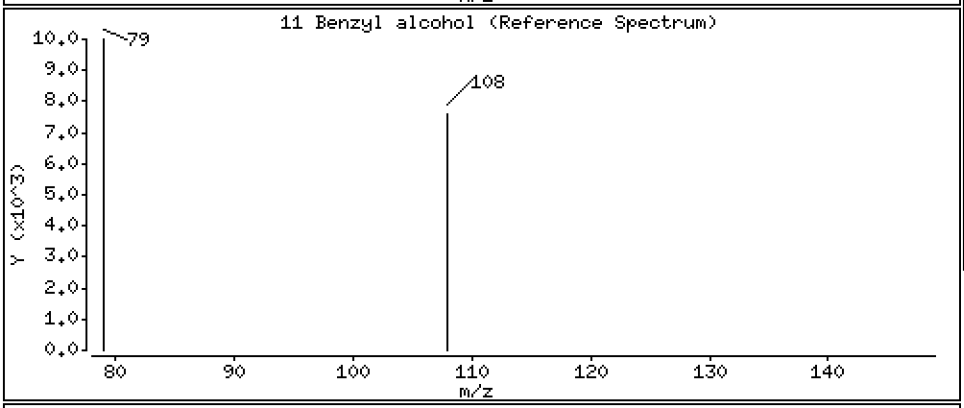
Concentration: 3.158 ug/L

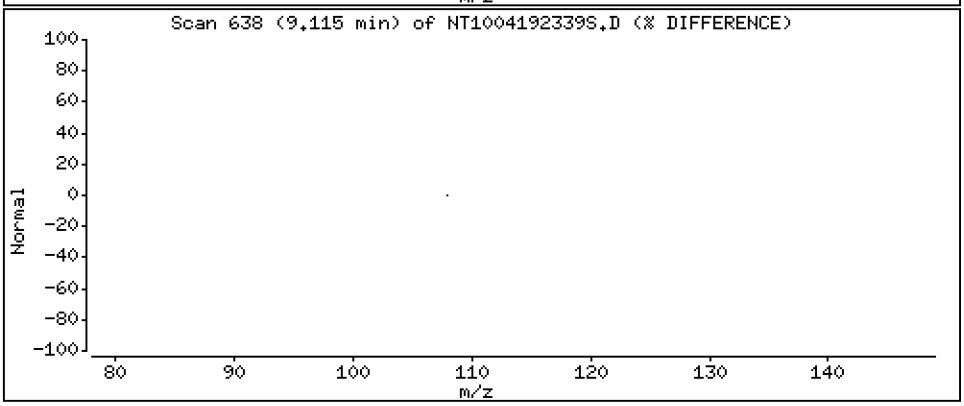












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192339S.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD2

Volume Injected (uL): 1.0

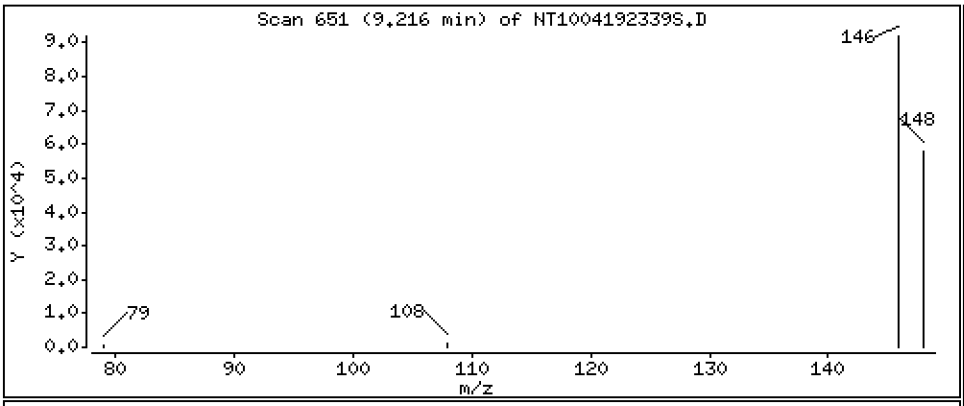
Operator: DSD

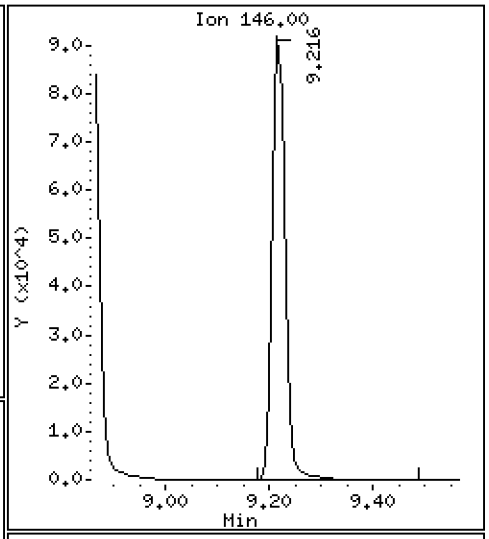
Column phase: ZB-5msi

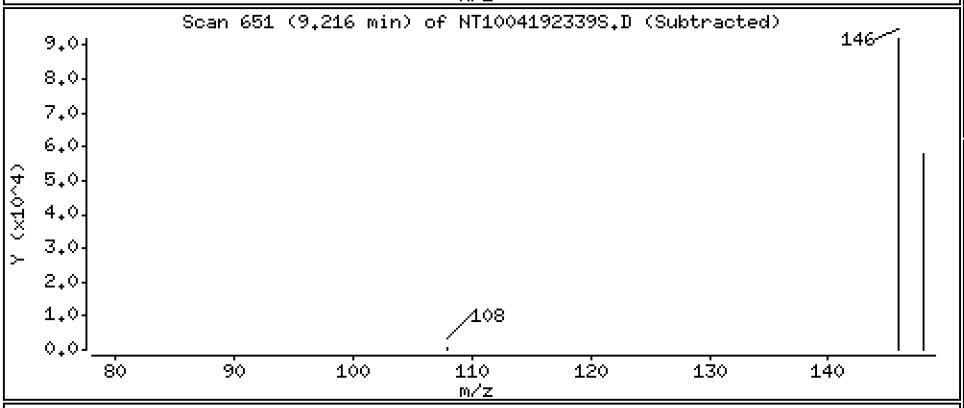
Column diameter: 0.25

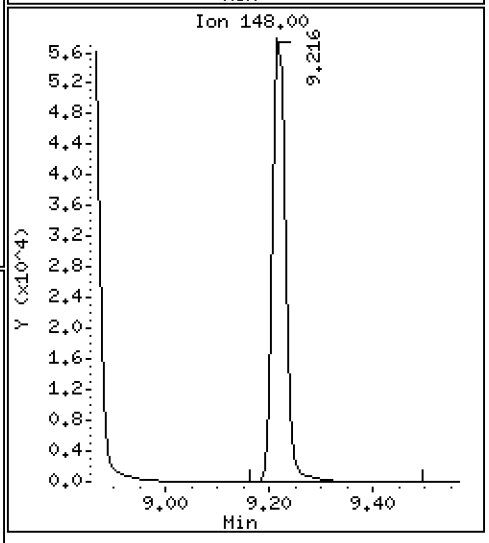
12 1,2-Dichlorobenzene

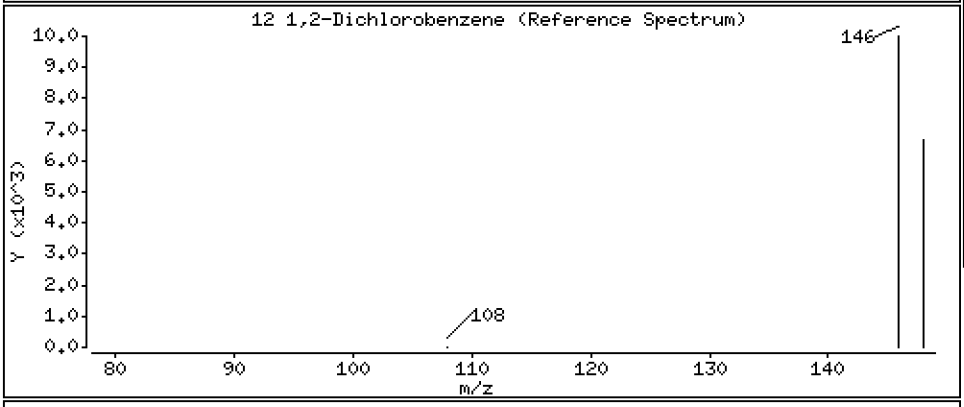
Concentration: 3.109 ug/L

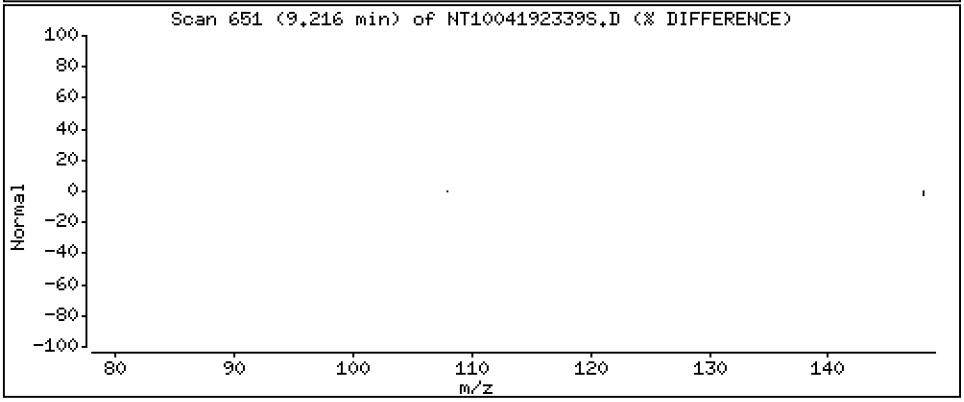












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192339S.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD2

Volume Injected (uL): 1.0

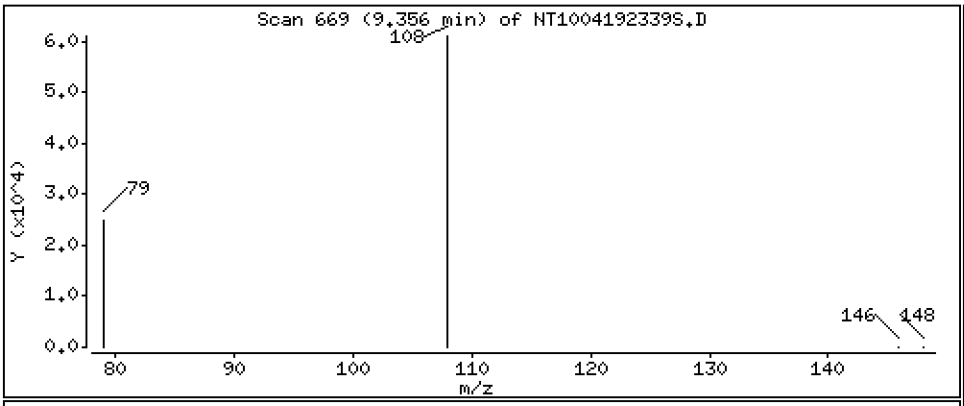
Operator: DSD

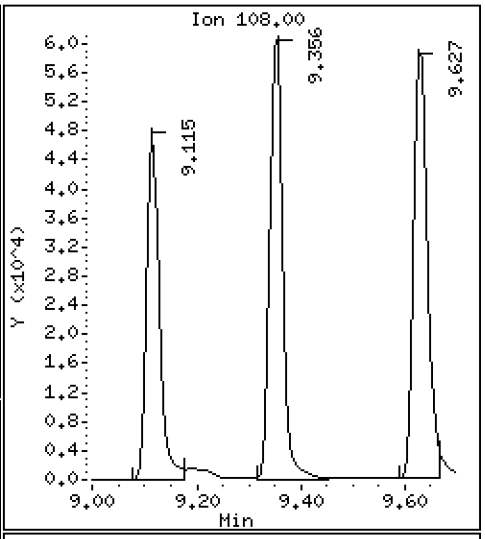
Column phase: ZB-5msi

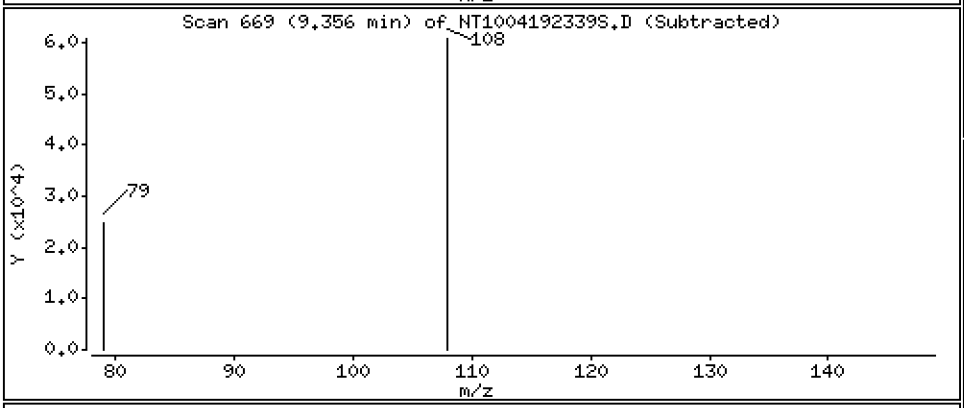
Column diameter: 0.25

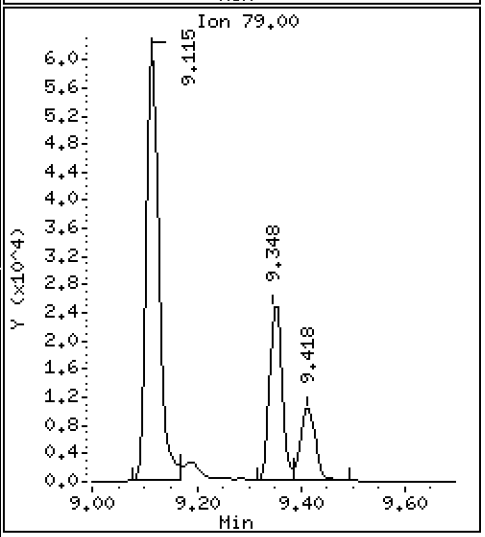
13 2-Methylphenol

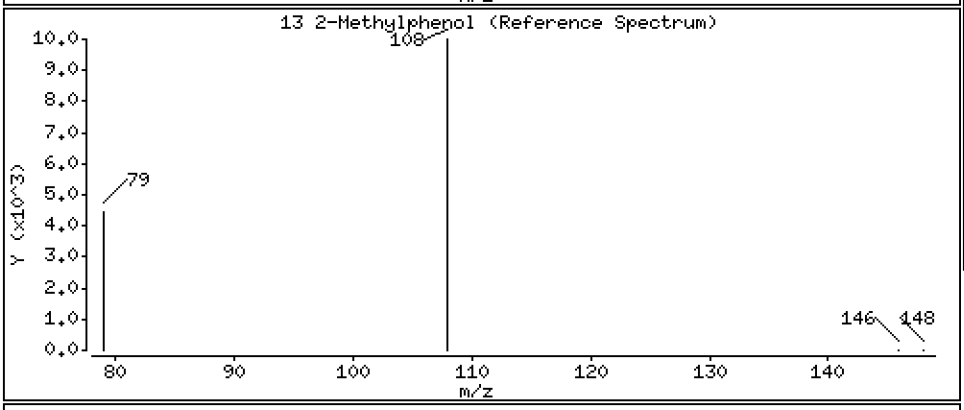
Concentration: 2.696 ug/L

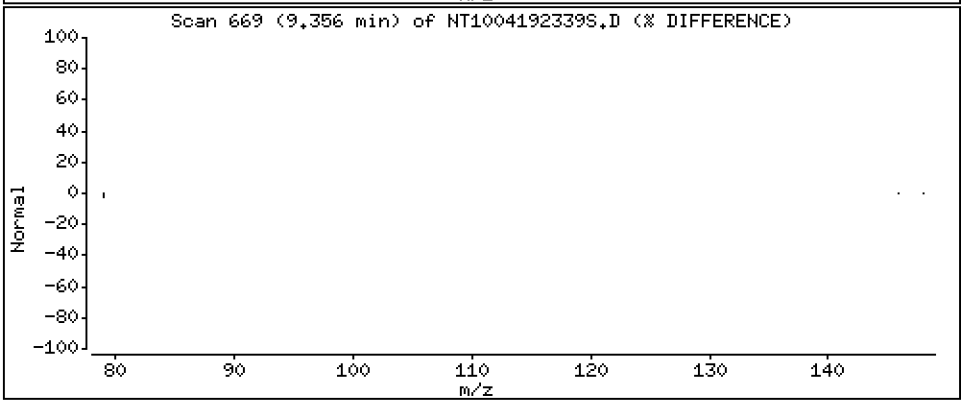












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192339S.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD2

Volume Injected (uL): 1.0

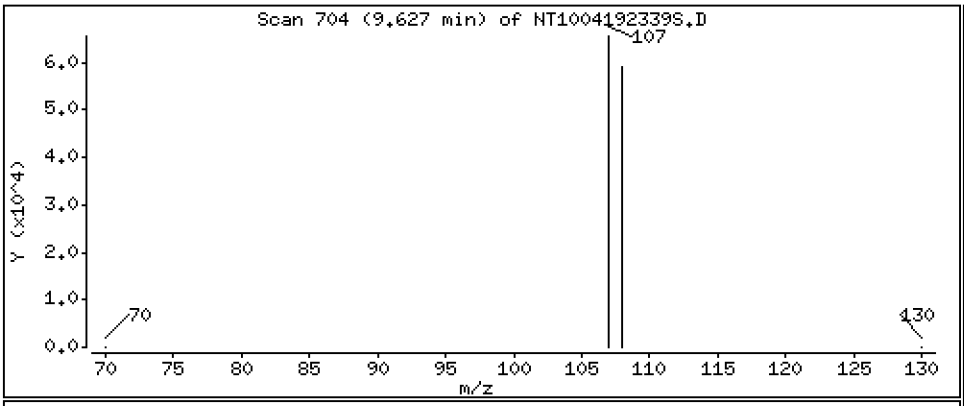
Operator: DSD

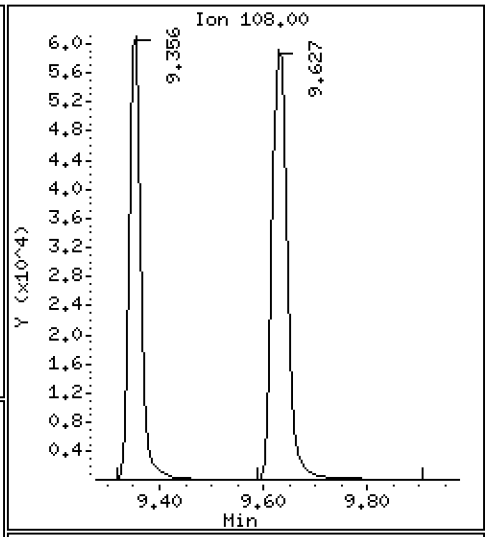
Column phase: ZB-5msi

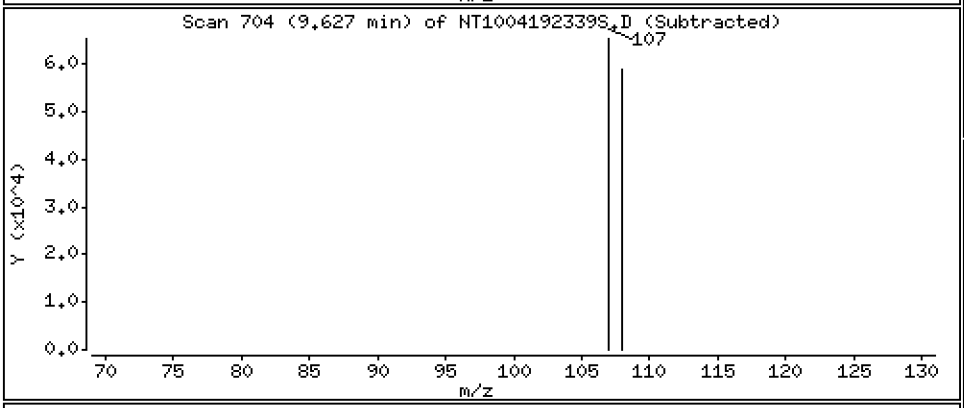
Column diameter: 0.25

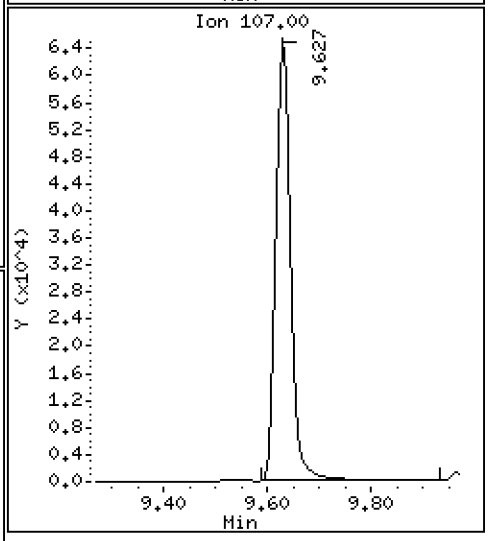
15 4-Methylphenol

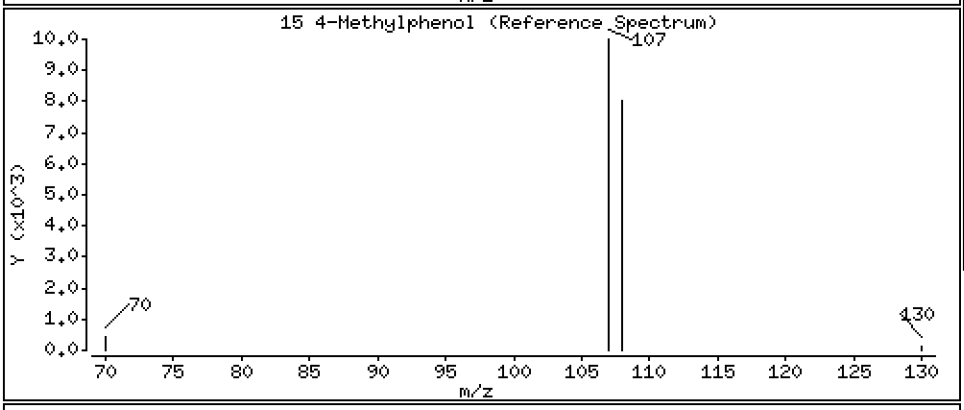
Concentration: 3.045 ug/L

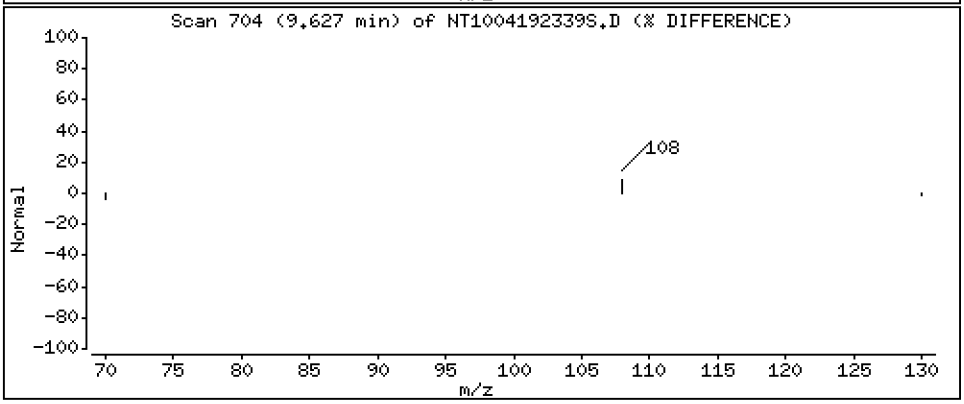












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192339S.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD2

Volume Injected (uL): 1.0

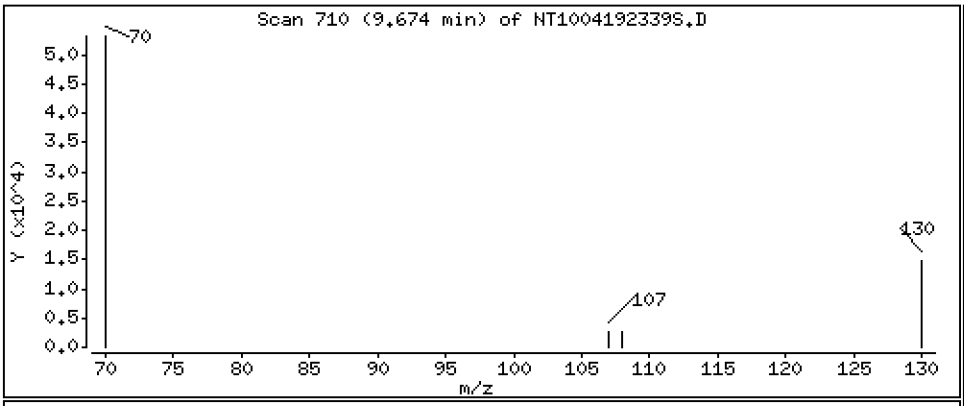
Operator: DSD

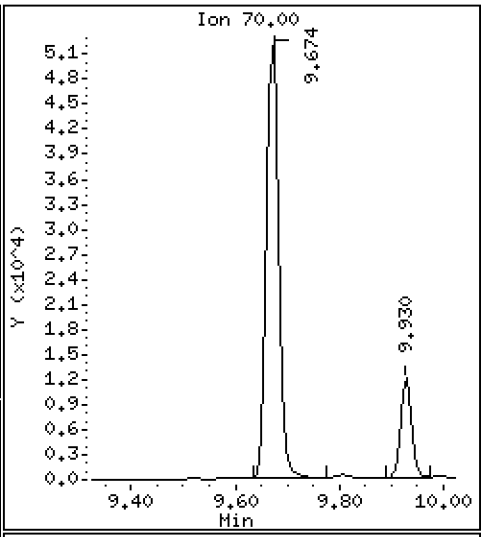
Column phase: ZB-5msi

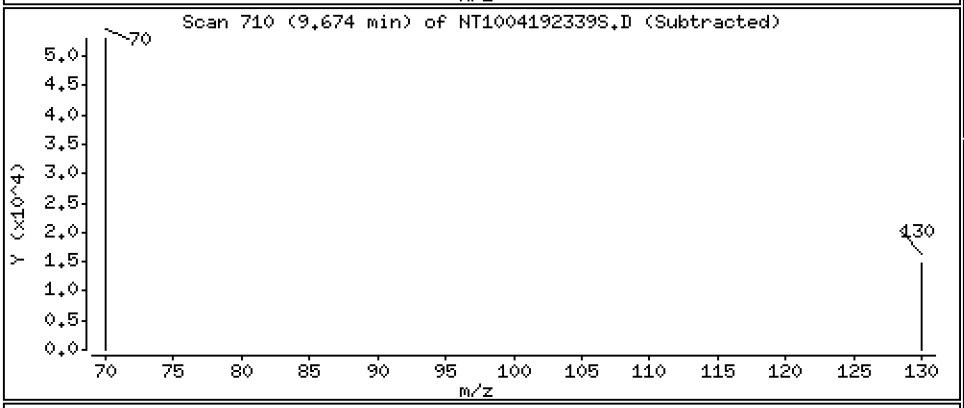
Column diameter: 0.25

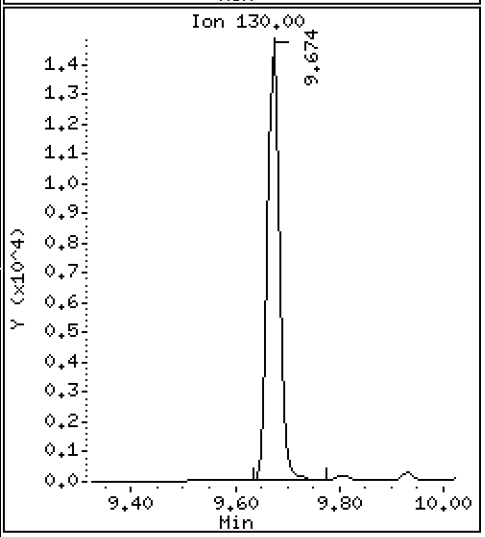
16 N-Nitroso-di-n-propylamine

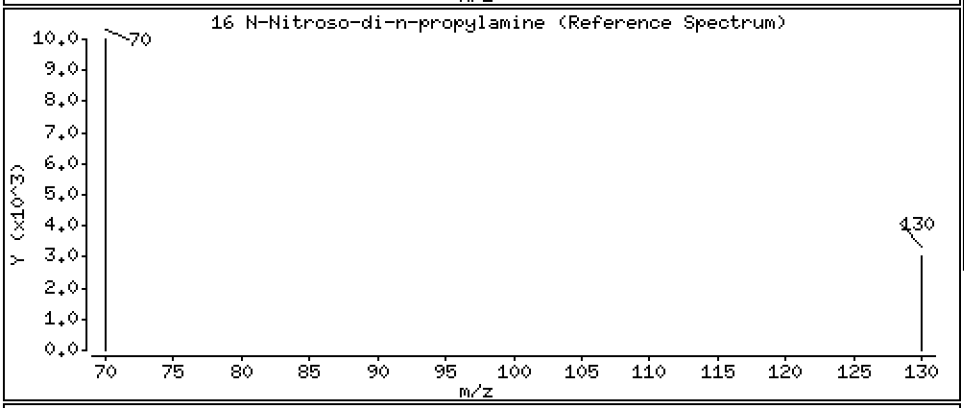
Concentration: 2.950 ug/L

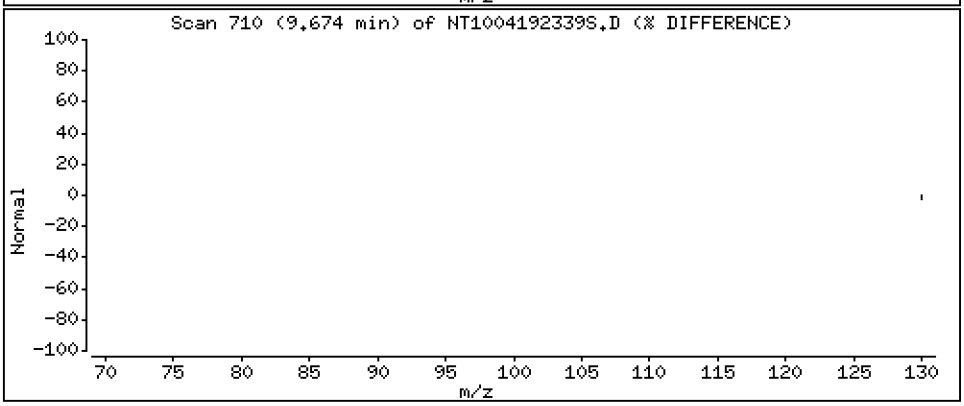












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192339S.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD2

Volume Injected (uL): 1.0

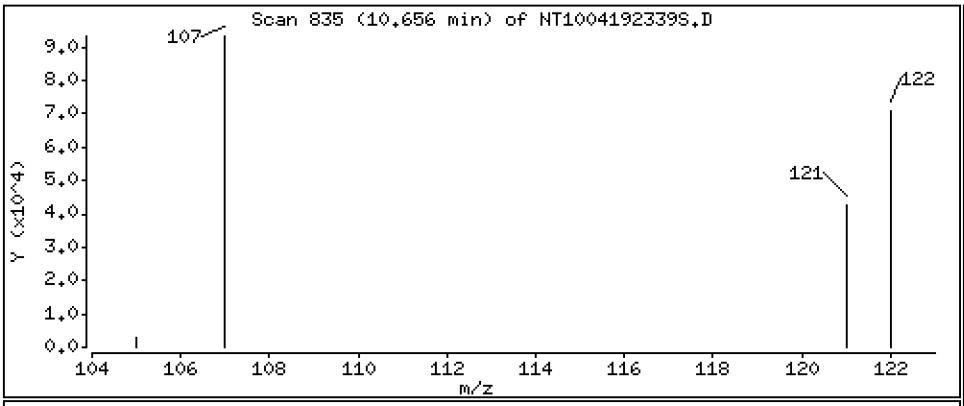
Operator: DSD

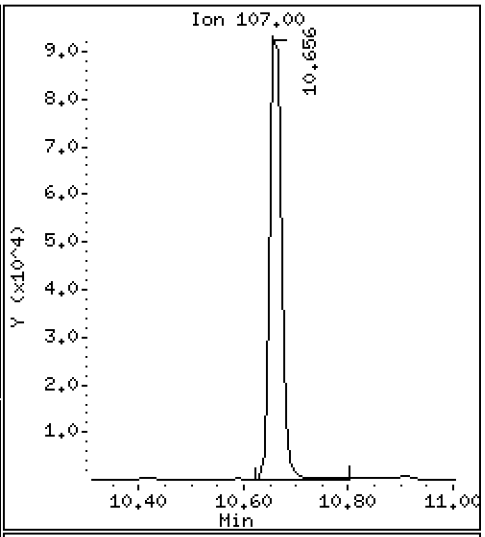
Column phase: ZB-5msi

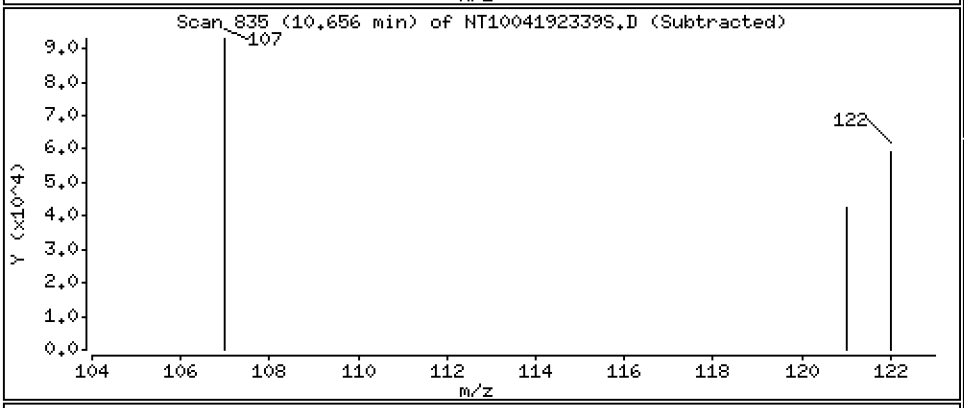
Column diameter: 0.25

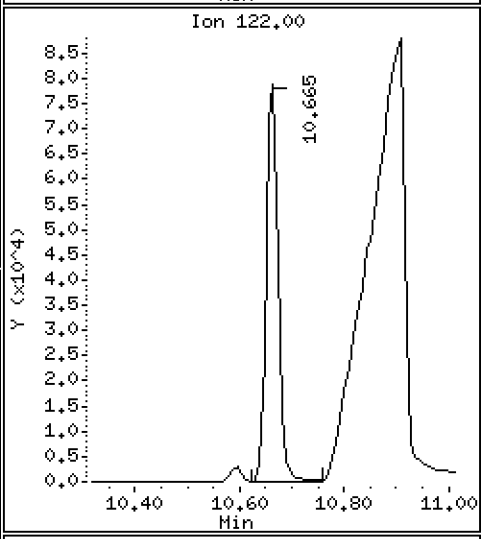
22 2,4-Dimethylphenol

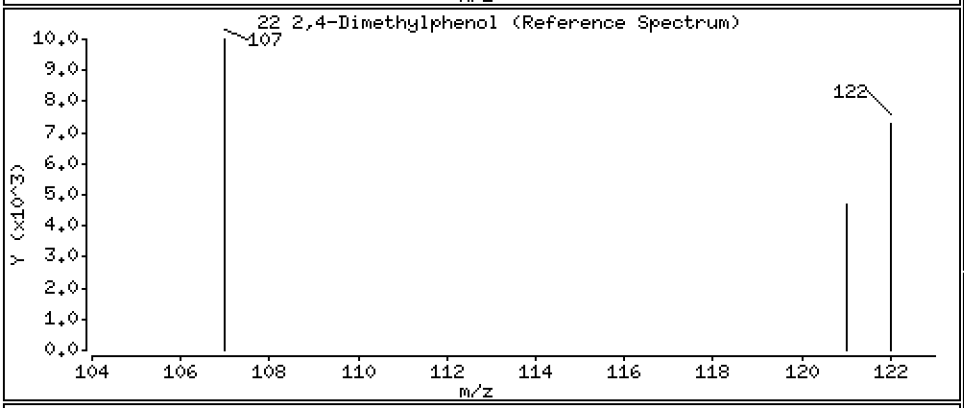
Concentration: 3.607 ug/L

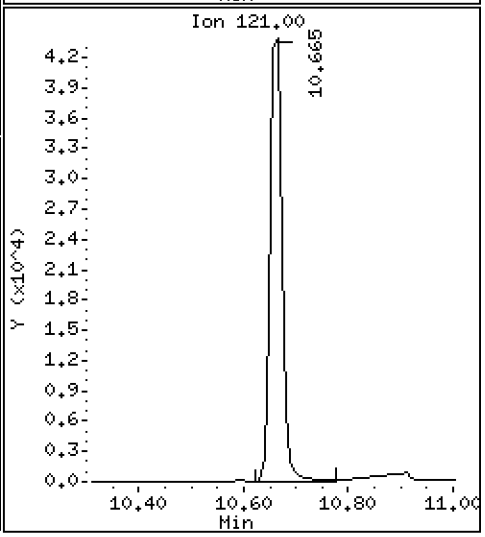


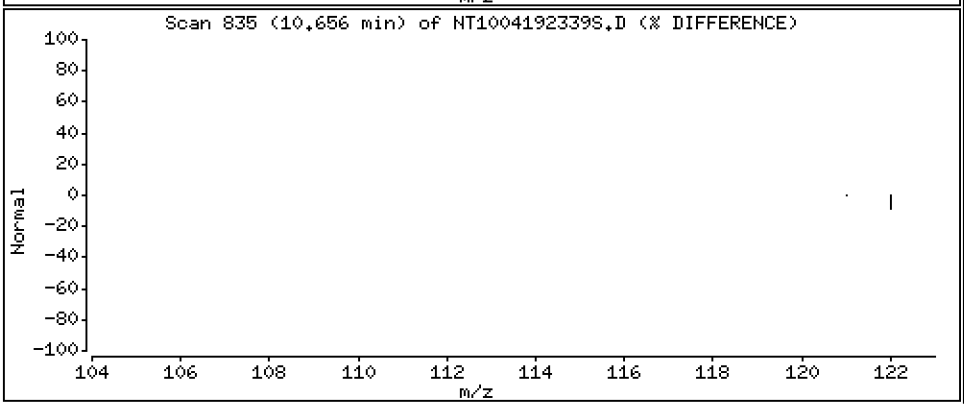












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT10041923395.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD2

Volume Injected (uL): 1.0

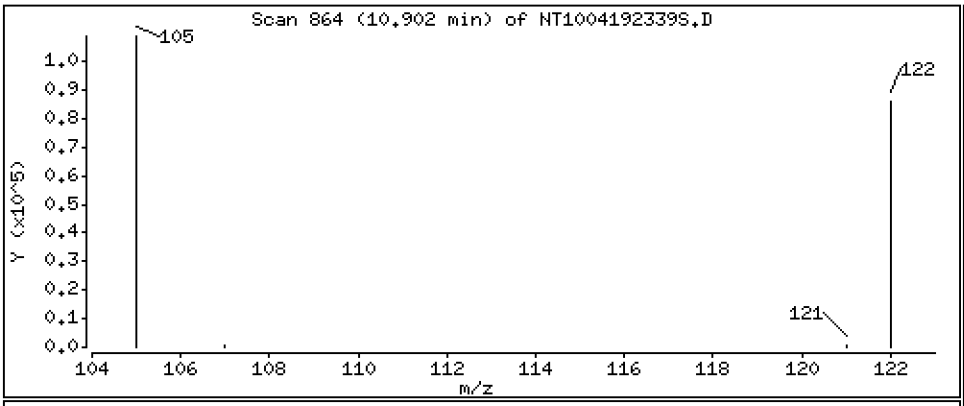
Operator: DSD

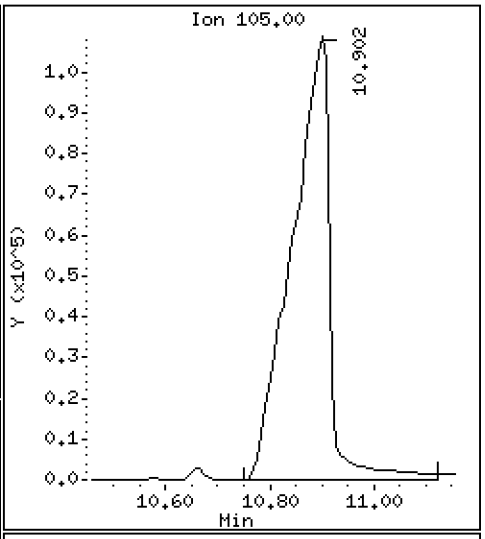
Column phase: ZB-5msi

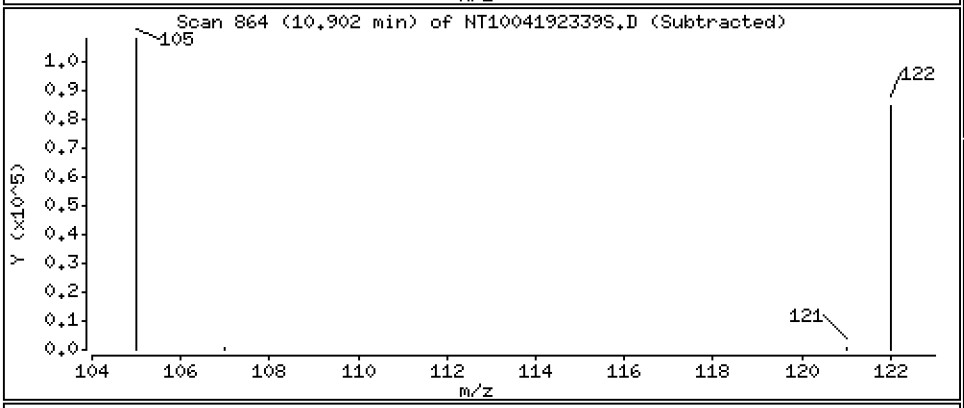
Column diameter: 0.25

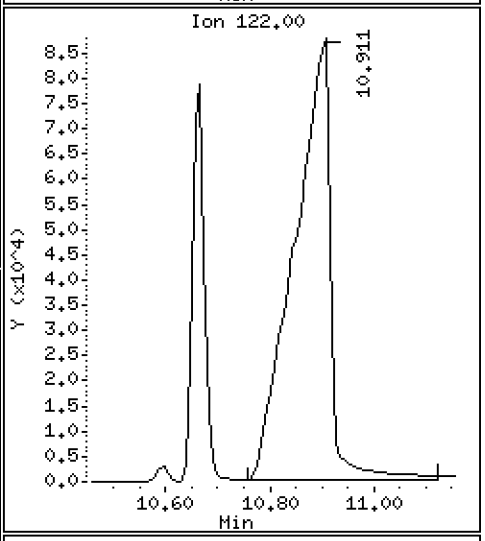
24 Benzoic acid

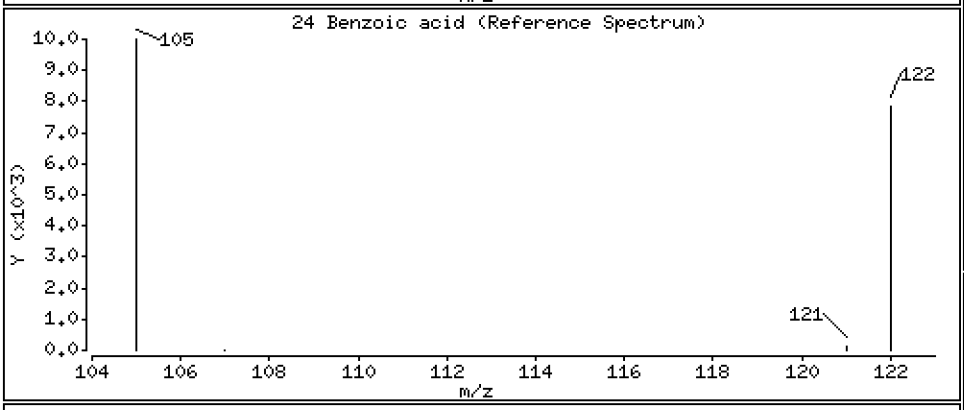
Concentration: 22.22 ug/L

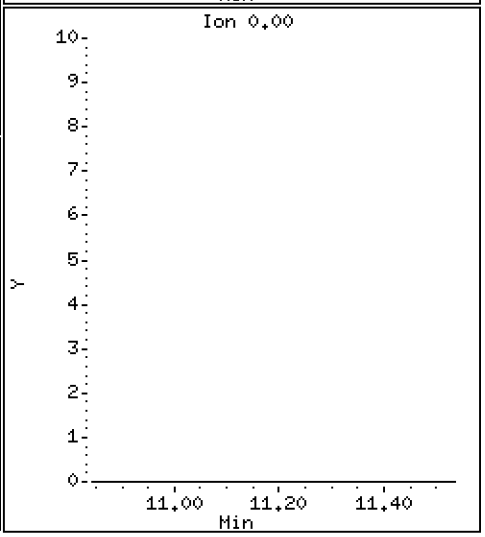


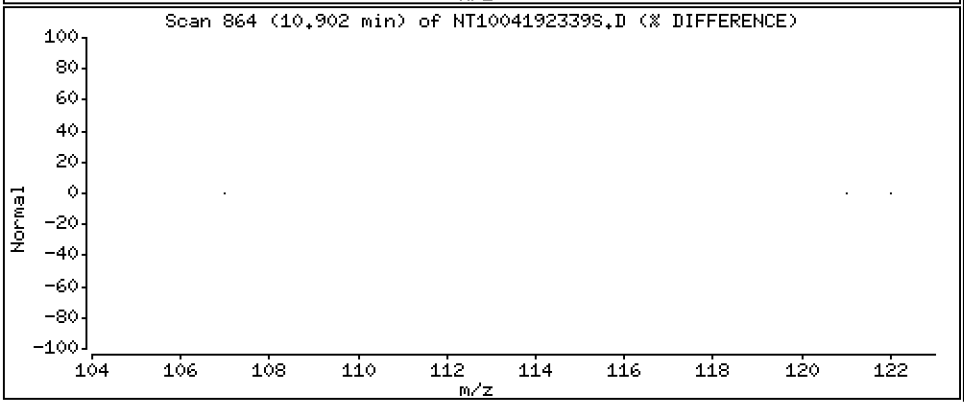












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192339S.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD2

Volume Injected (uL): 1.0

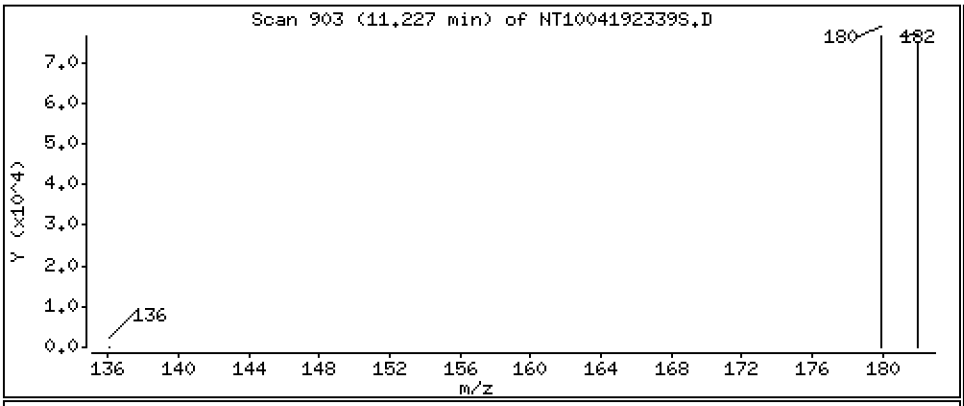
Operator: DSD

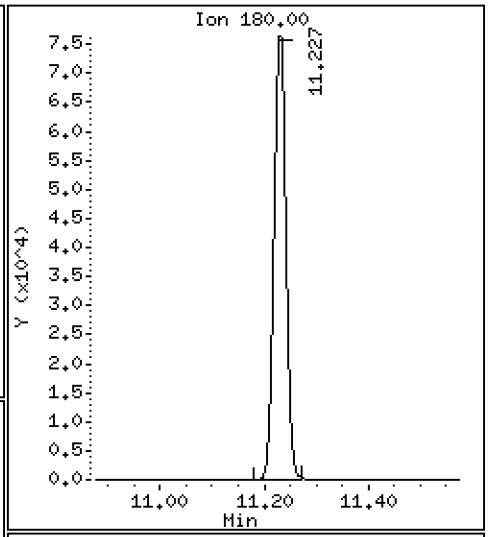
Column phase: ZB-5msi

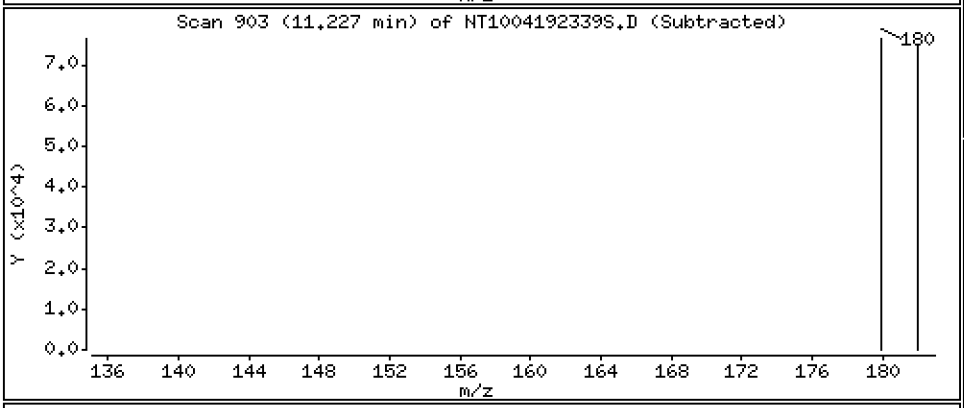
Column diameter: 0.25

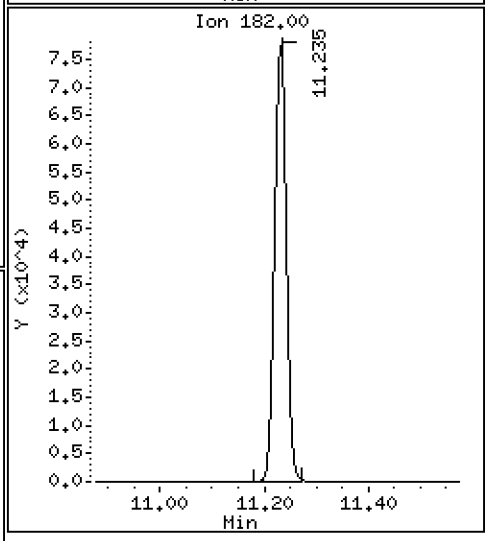
26 1,2,4-Trichlorobenzene

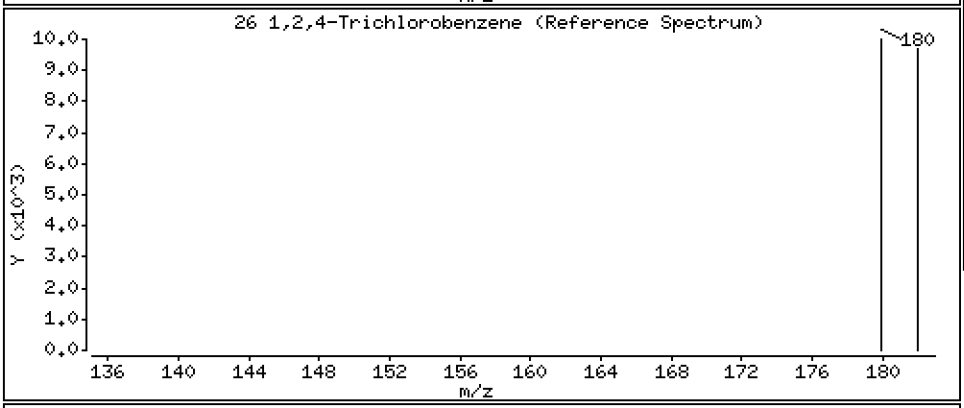
Concentration: 3.094 ug/L

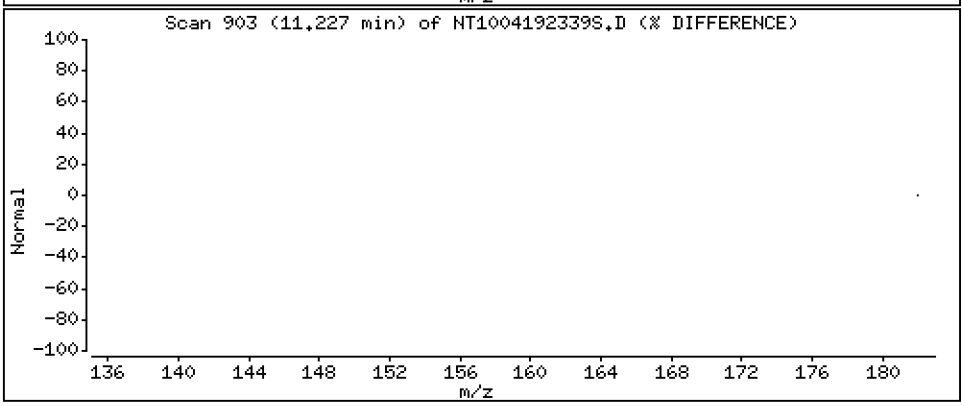












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192339S.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD2

Volume Injected (uL): 1.0

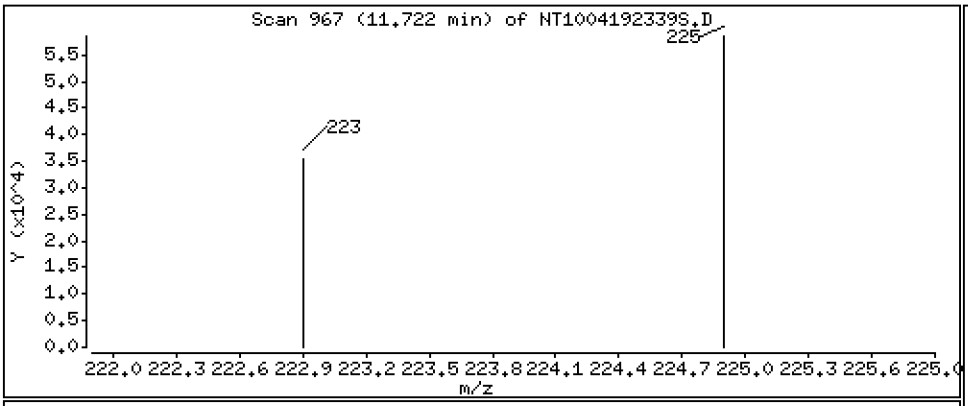
Operator: DSD

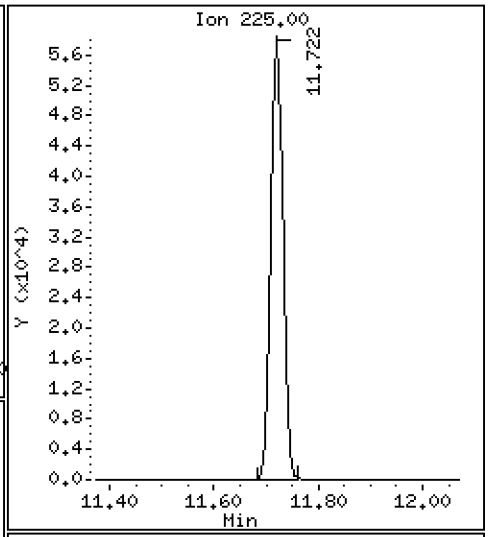
Column phase: ZB-5msi

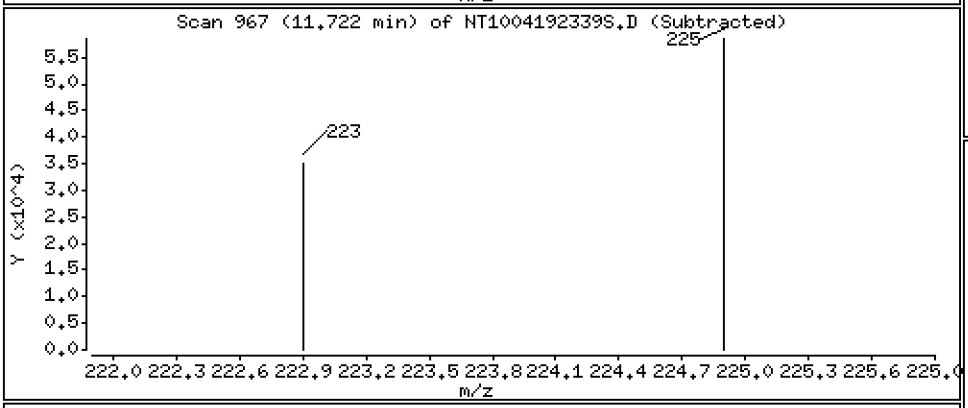
Column diameter: 0.25

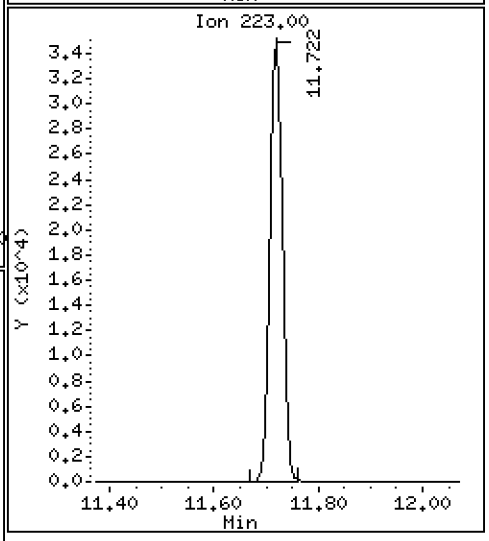
30 Hexachlorobutadiene

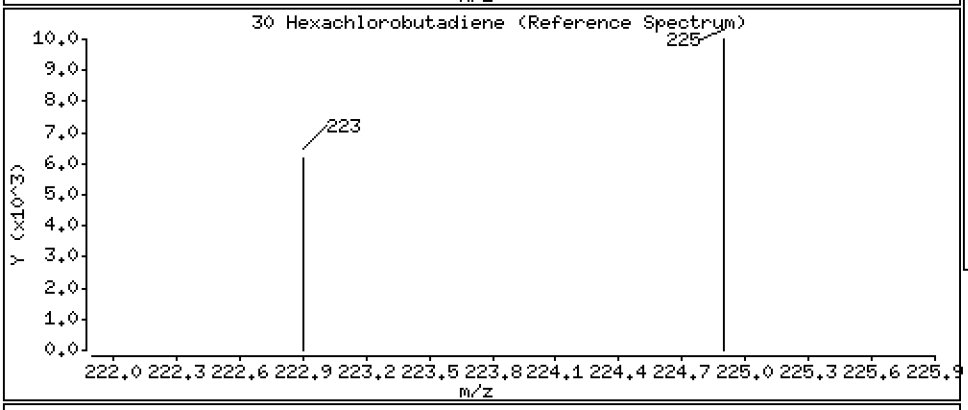
Concentration: 3.517 ug/L

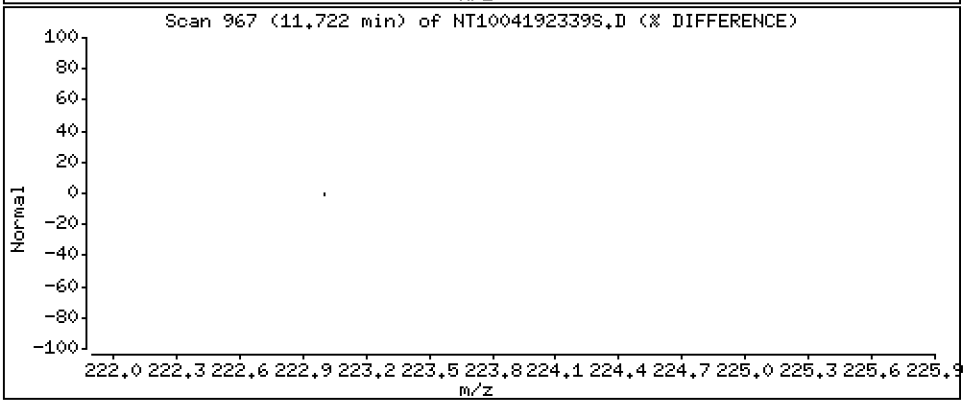












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192339S.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD2

Volume Injected (uL): 1.0

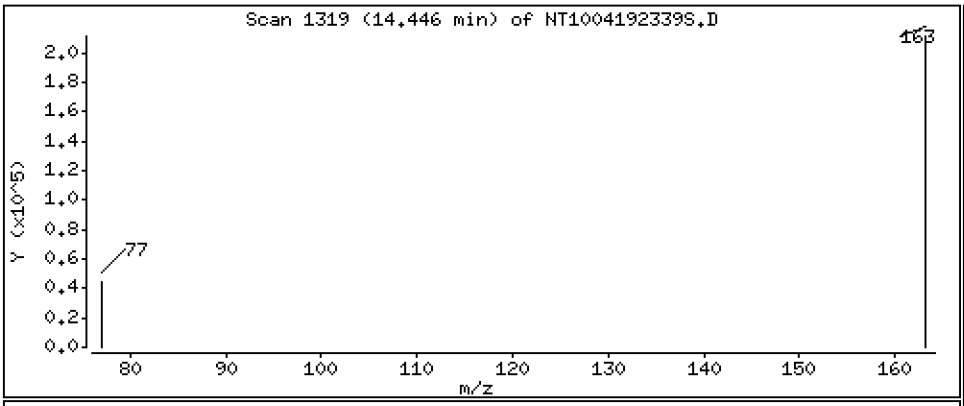
Operator: DSD

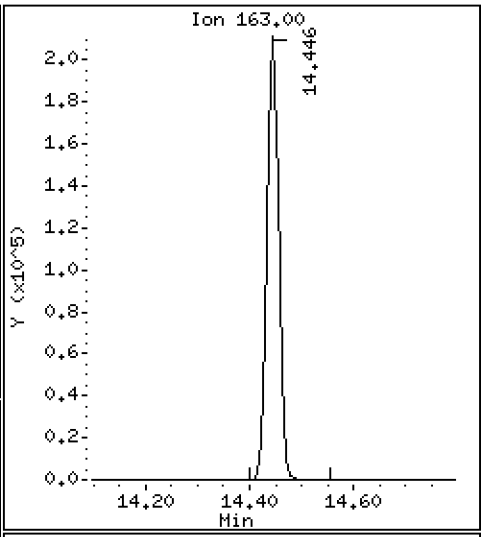
Column phase: ZB-5msi

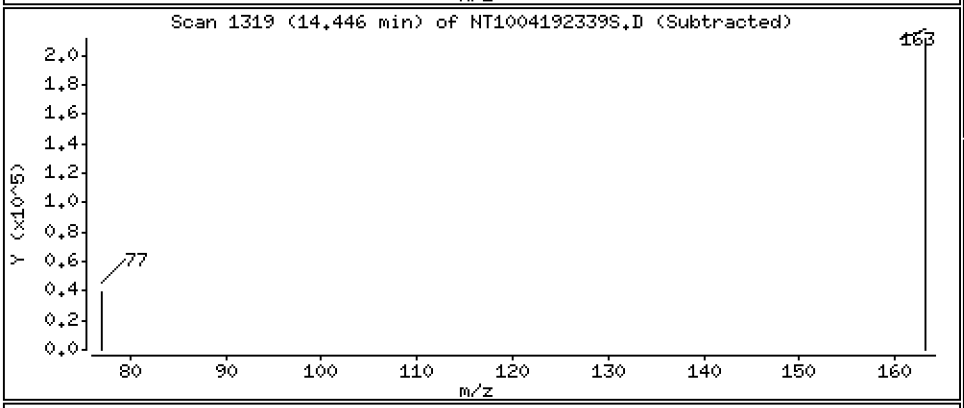
Column diameter: 0.25

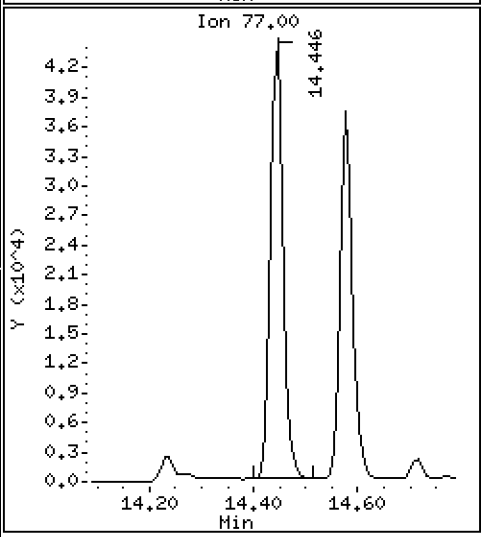
39 Dimethylphthalate

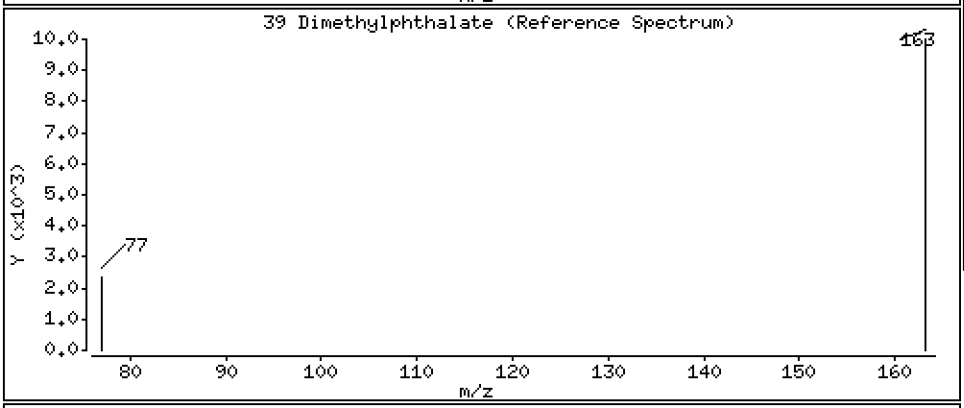
Concentration: 3.743 ug/L

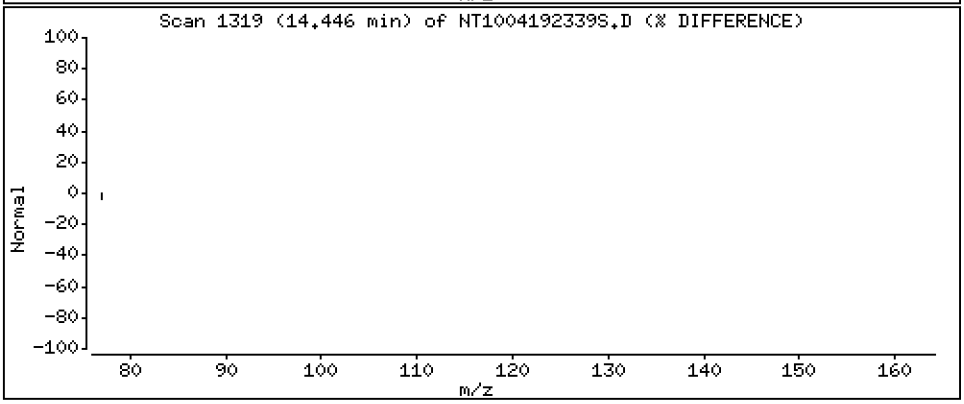












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192339S.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD2

Volume Injected (uL): 1.0

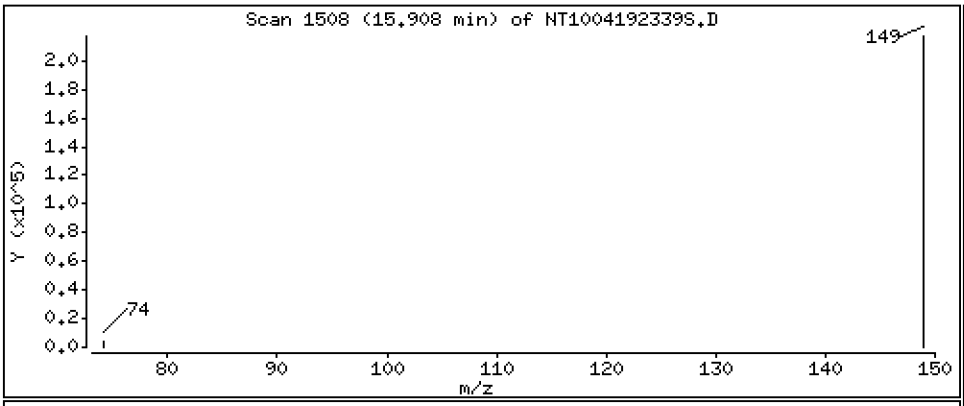
Operator: DSD

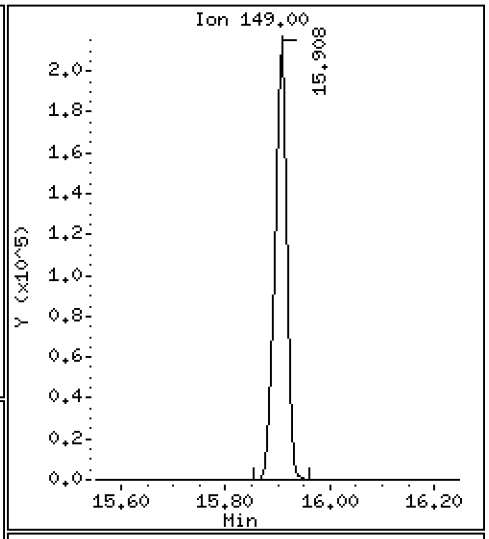
Column phase: ZB-5msi

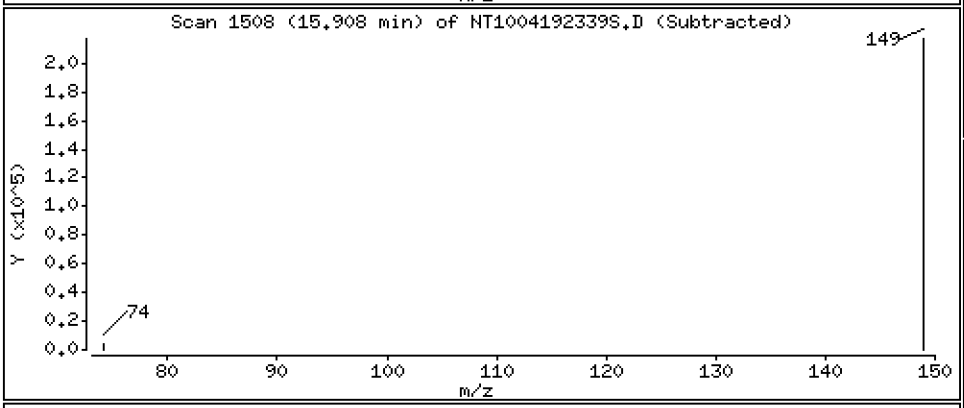
Column diameter: 0.25

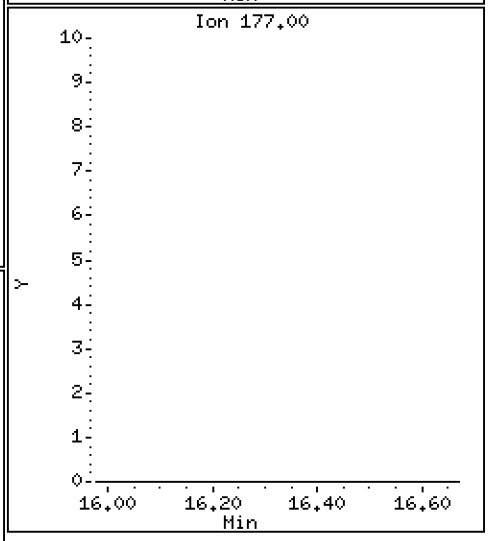
50 Diethylphthalate

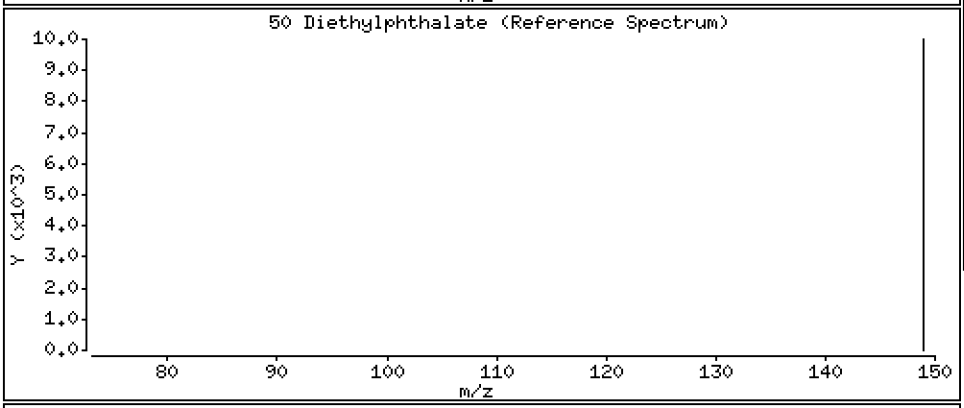
Concentration: 3.993 ug/L

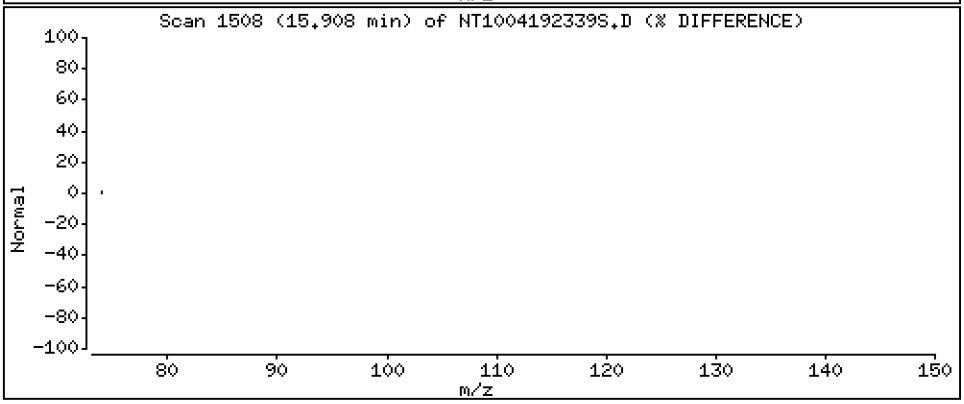












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192339S.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD2

Volume Injected (uL): 1.0

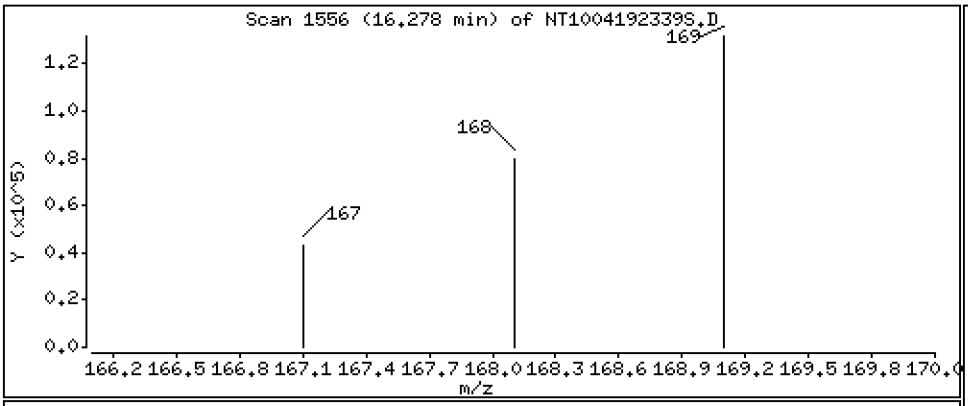
Operator: DSD

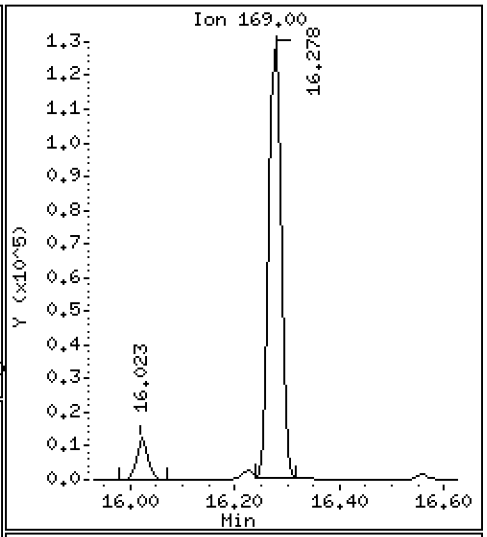
Column phase: ZB-5msi

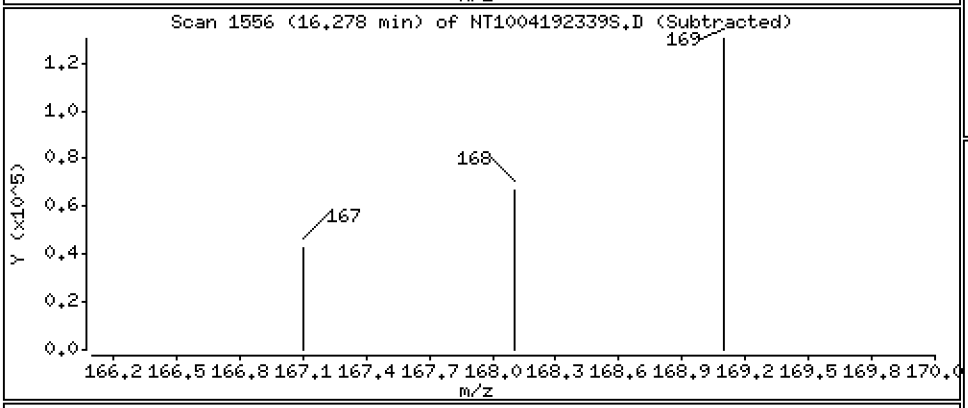
Column diameter: 0.25

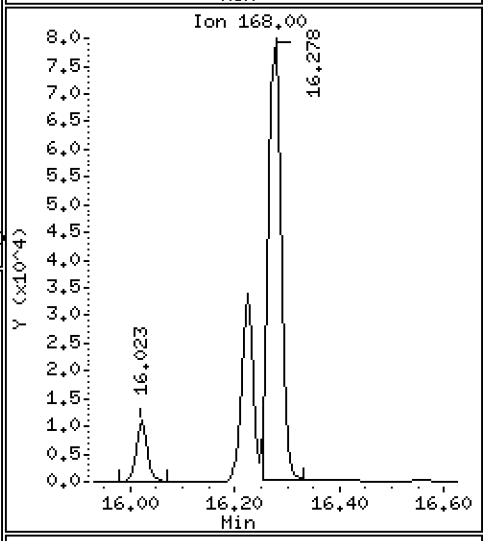
54 N-Nitrosodiphenylamine

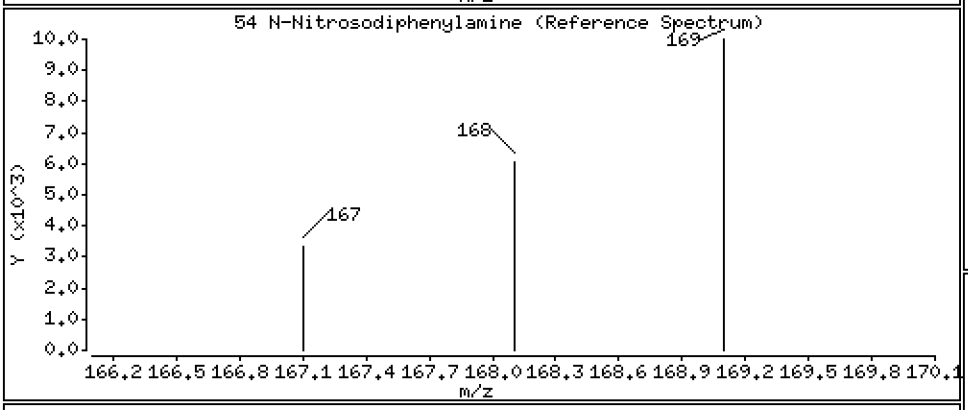
Concentration: 3.146 ug/L

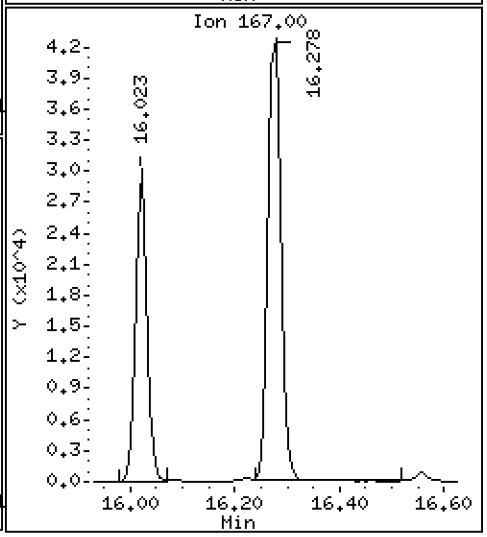


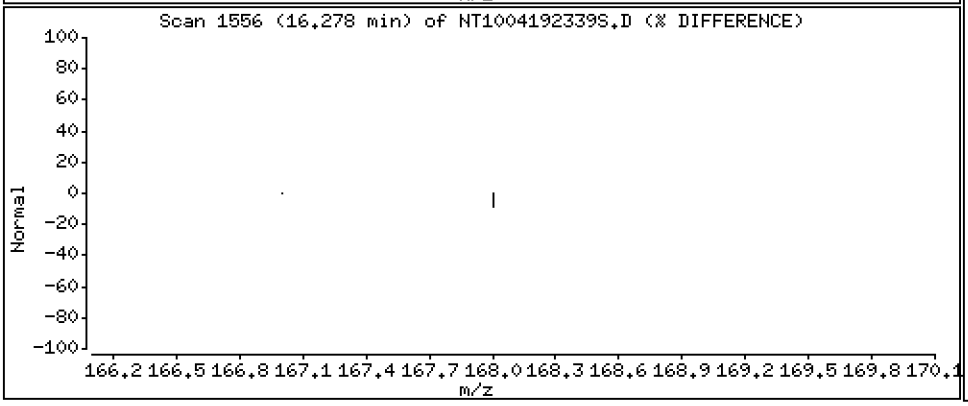












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192339S.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD2

Volume Injected (uL): 1.0

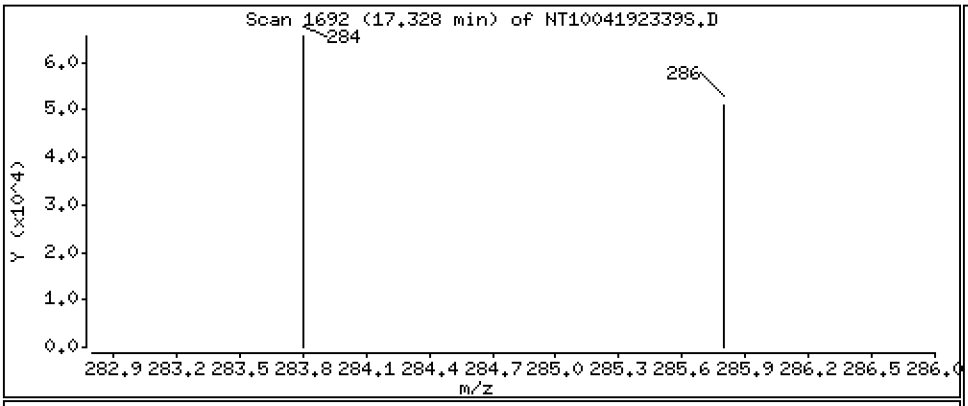
Operator: DSD

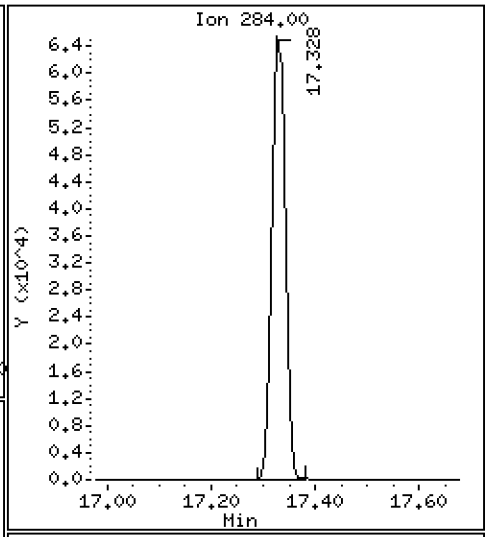
Column phase: ZB-5msi

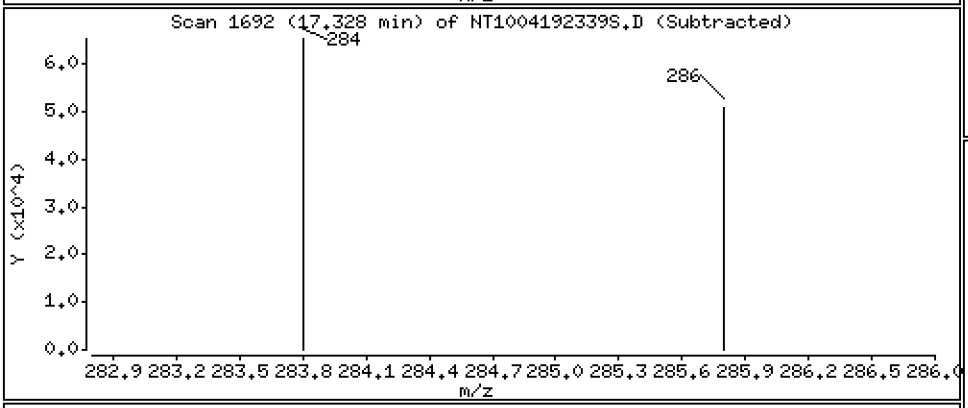
Column diameter: 0.25

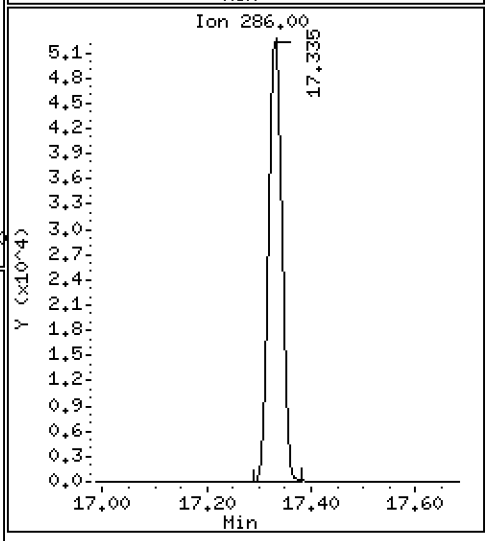
57 Hexachlorobenzene

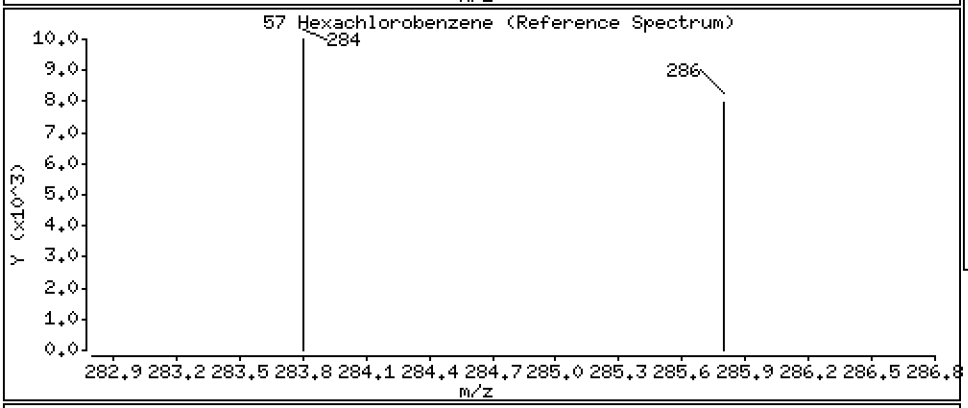
Concentration: 3.884 ug/L

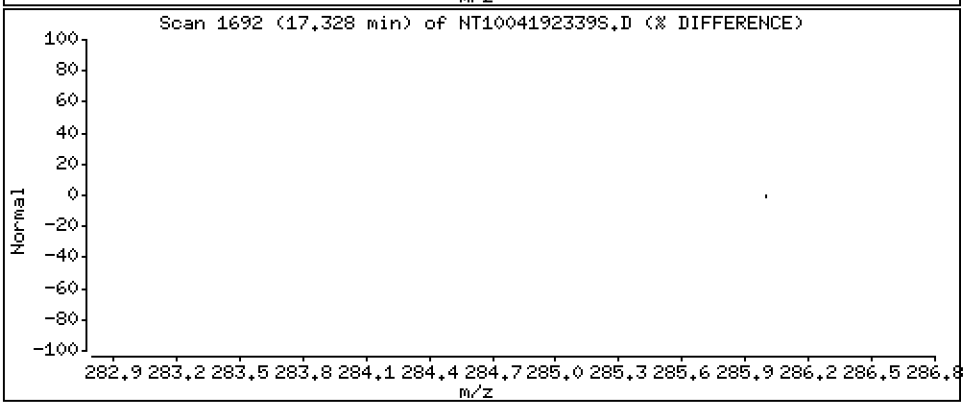












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192339S.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD2

Volume Injected (uL): 1.0

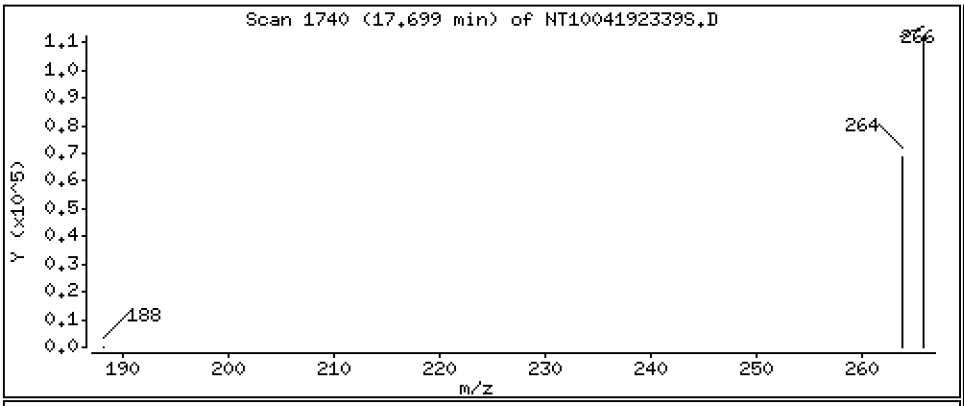
Operator: DSD

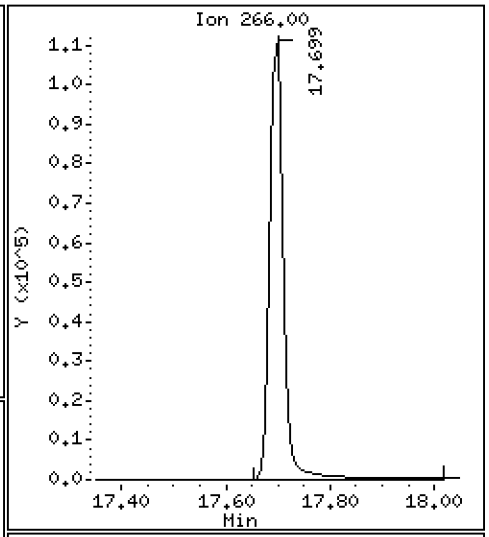
Column phase: ZB-5msi

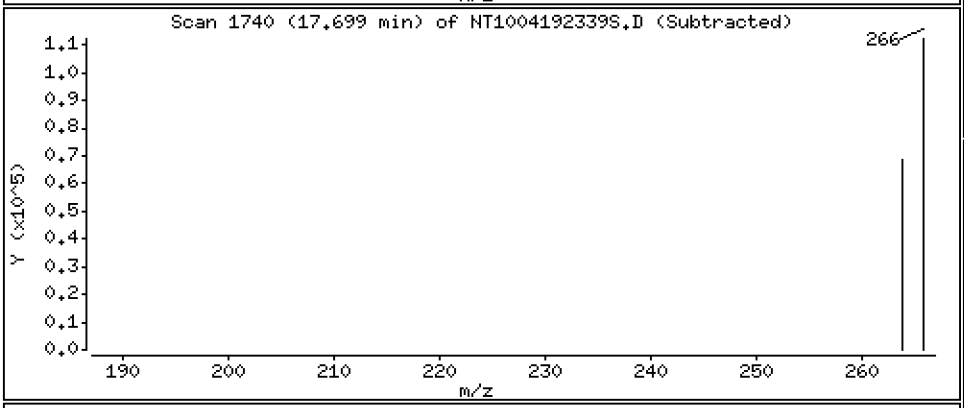
Column diameter: 0.25

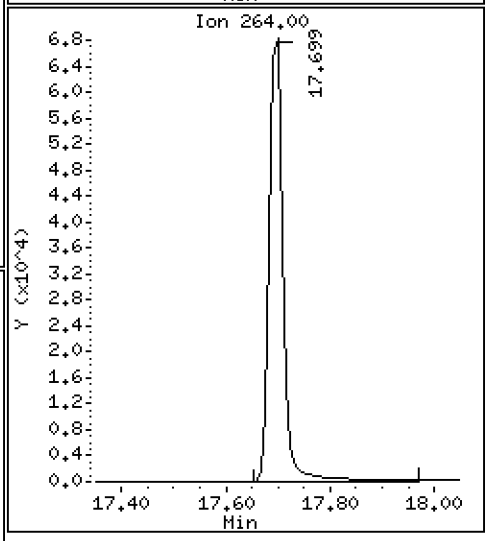
58 Pentachlorophenol

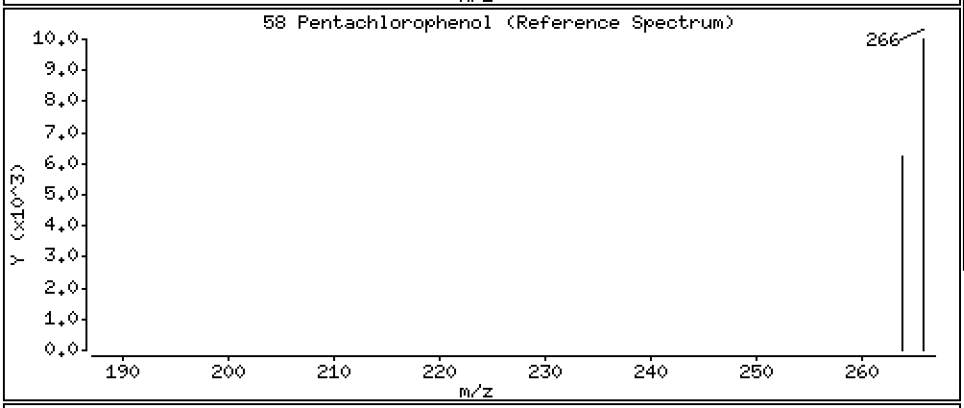
Concentration: 11.45 ug/L

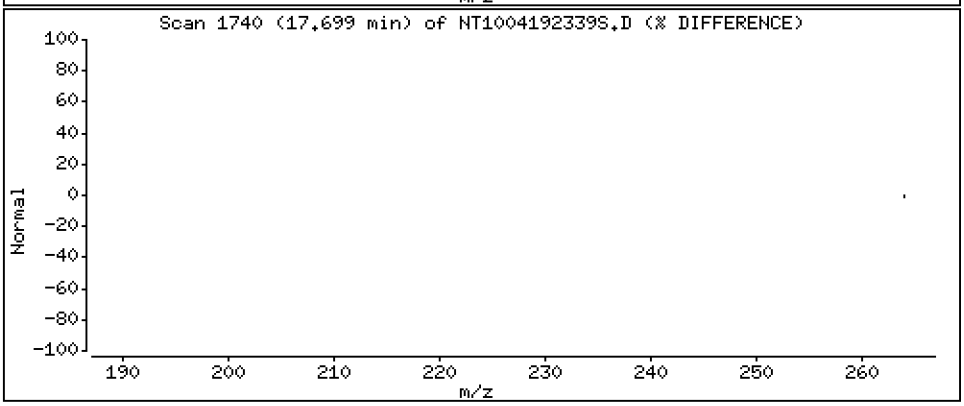












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192339S.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD2

Volume Injected (uL): 1.0

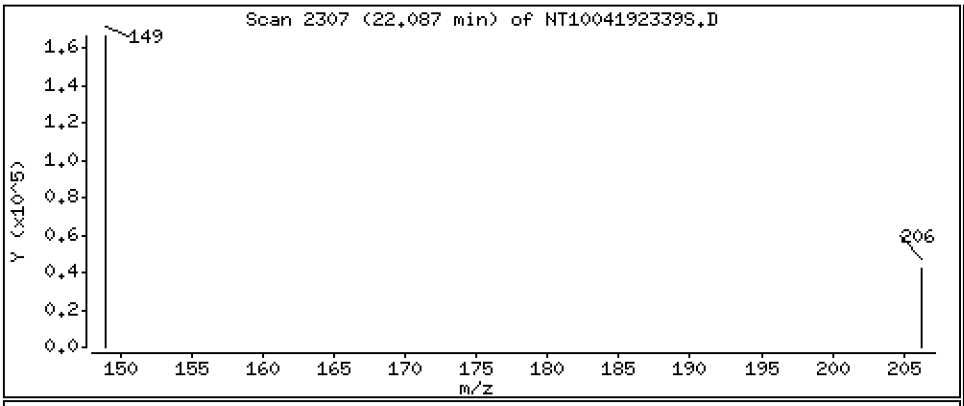
Operator: DSD

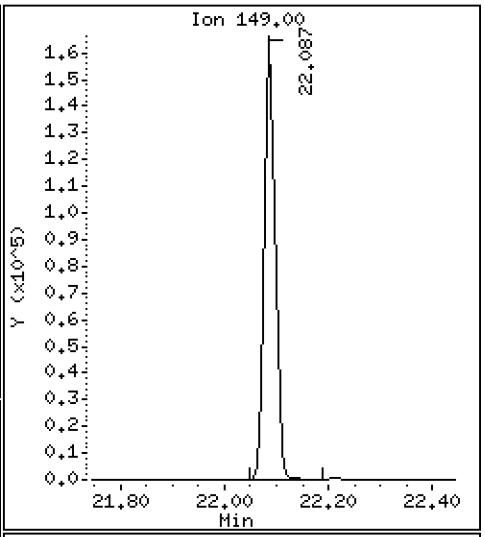
Column phase: ZB-5msi

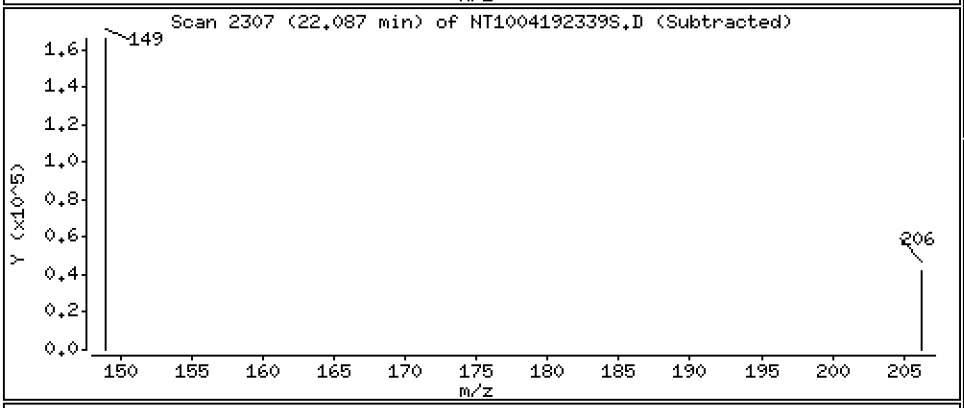
Column diameter: 0.25

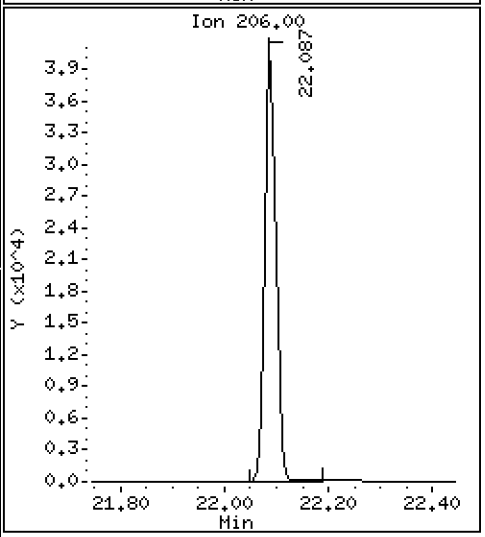
67 Butylbenzylphthalate

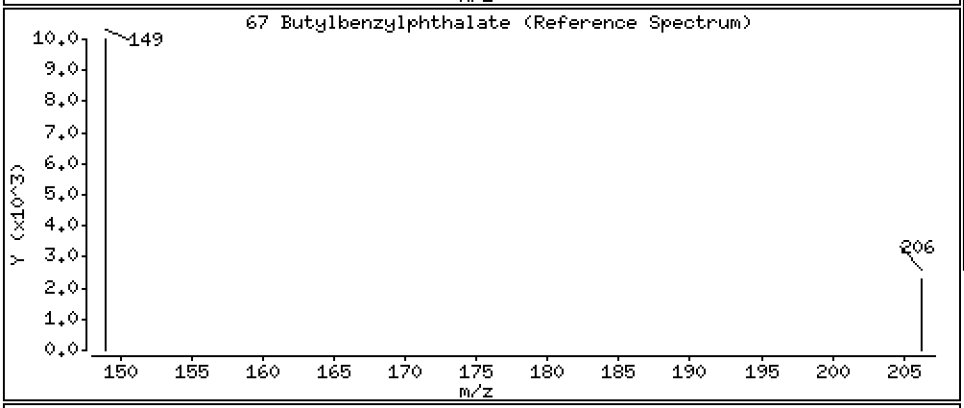
Concentration: 3.619 ug/L

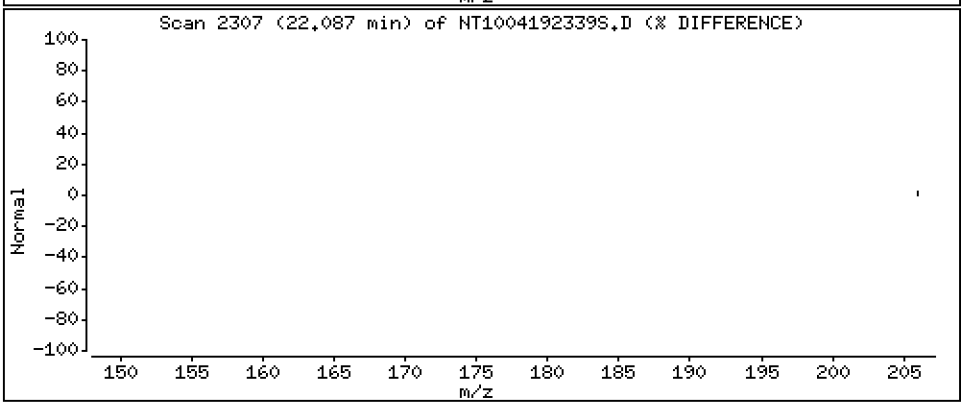












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192339S.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD2

Volume Injected (uL): 1.0

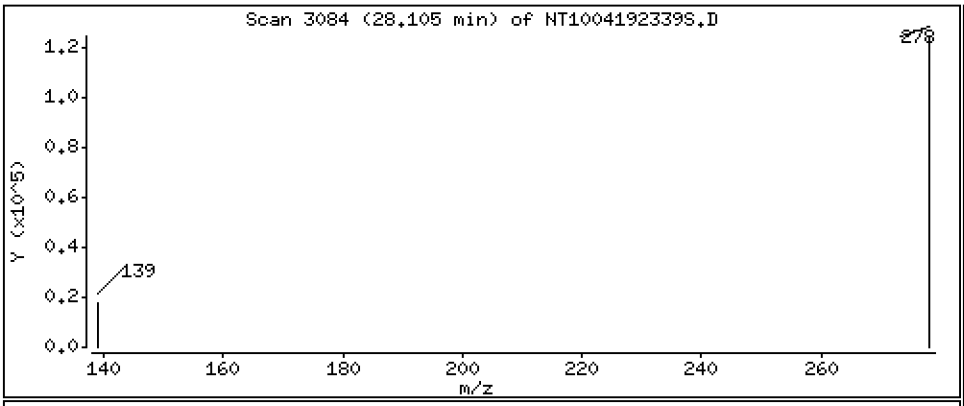
Operator: DSD

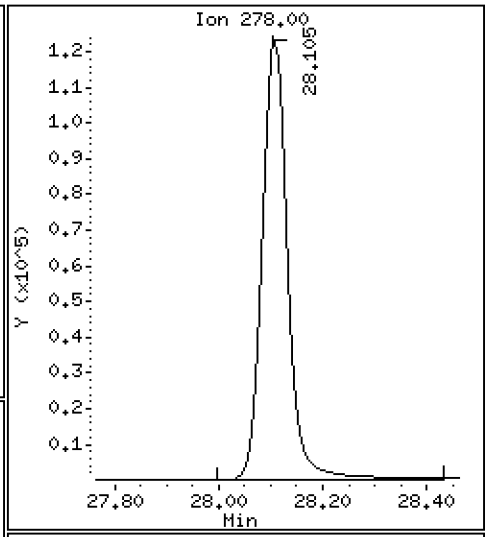
Column phase: ZB-5msi

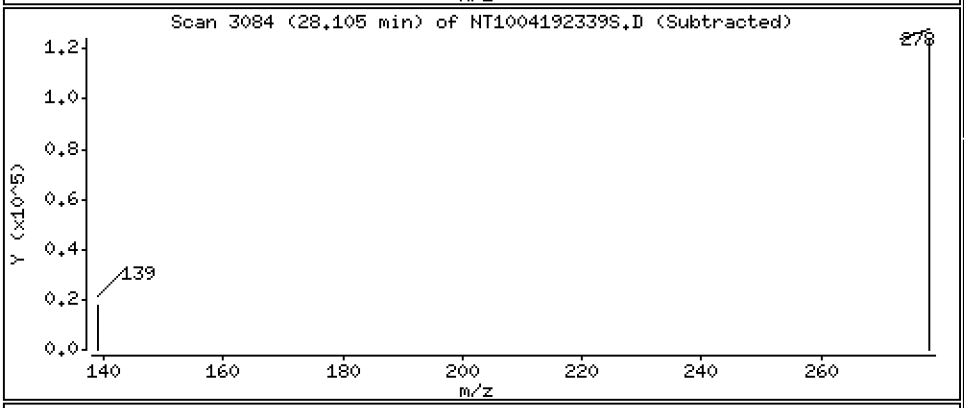
Column diameter: 0.25

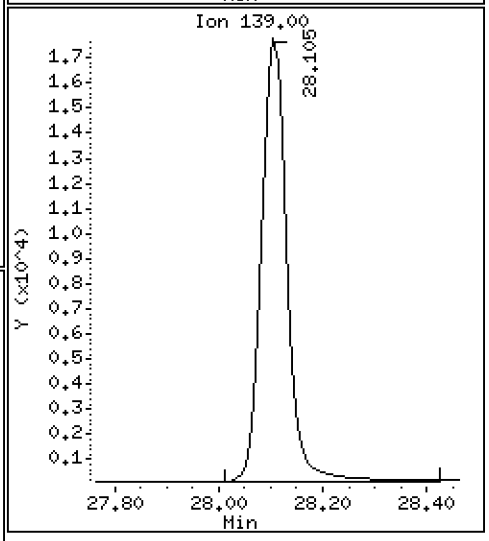
79 Dibenzo(a,h)anthracene

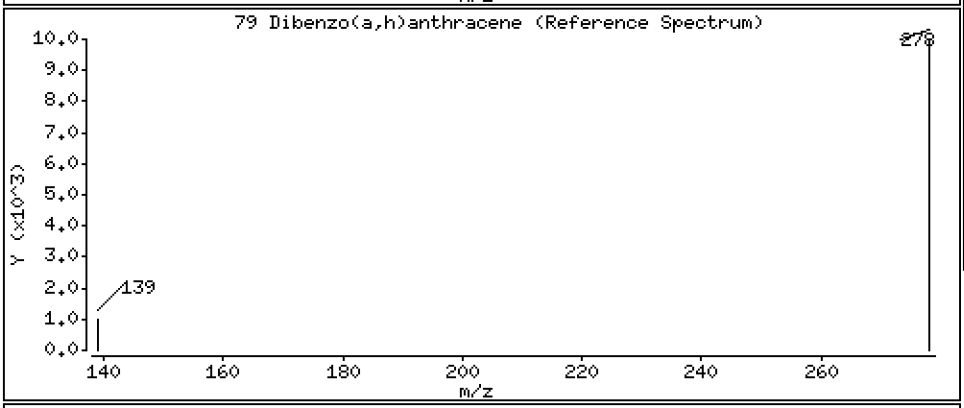
Concentration: 2.497 ug/L

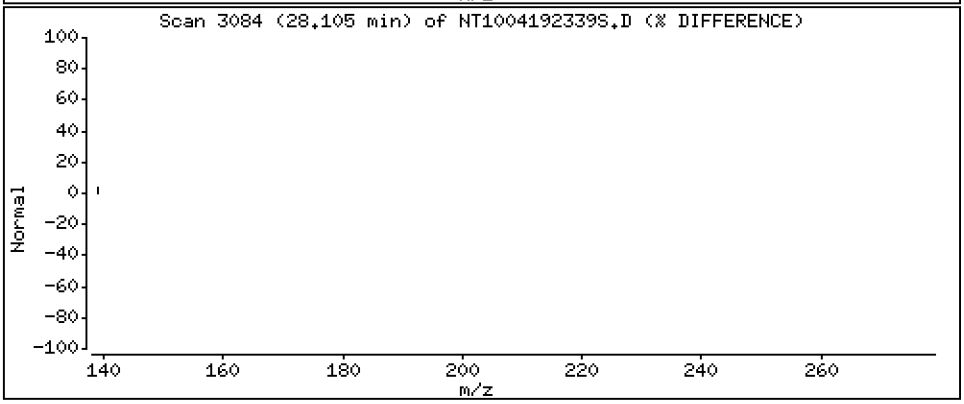












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192339S.D

Date : 20-APR-2023 11:29

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-BSD2

Volume Injected (uL): 1.0

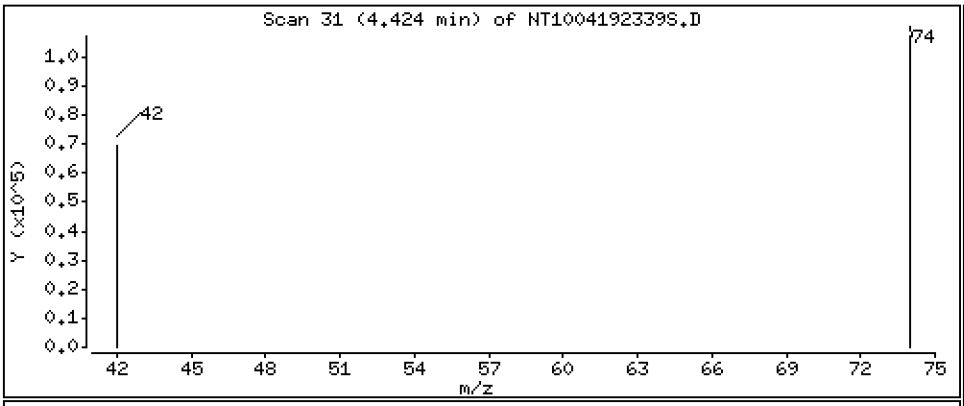
Operator: DSD

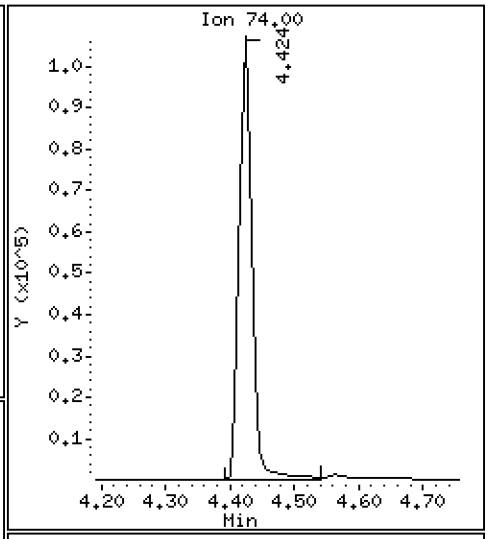
Column phase: ZB-5msi

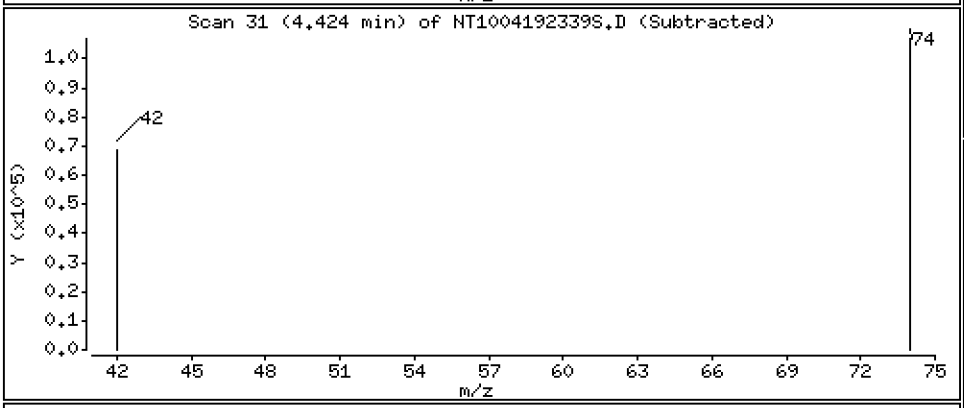
Column diameter: 0.25

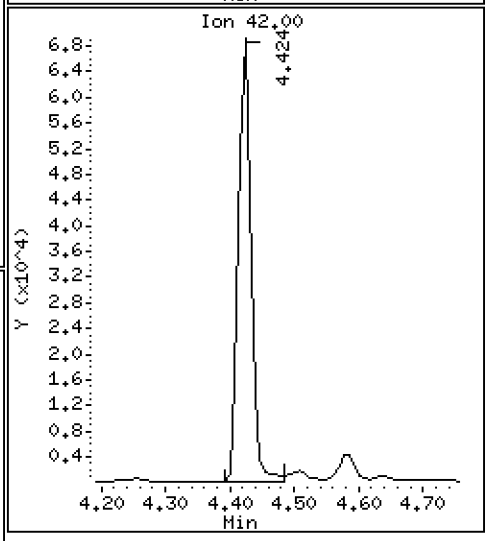
90 N-Nitrosodimethylamine

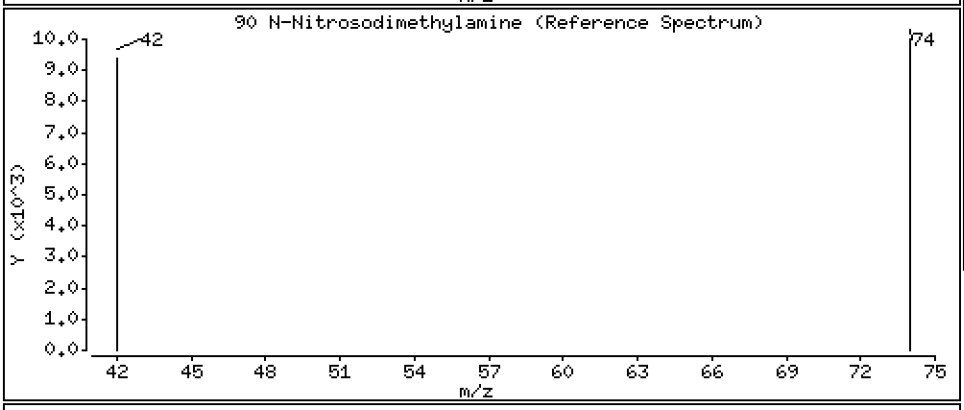
Concentration: 5.958 ug/L

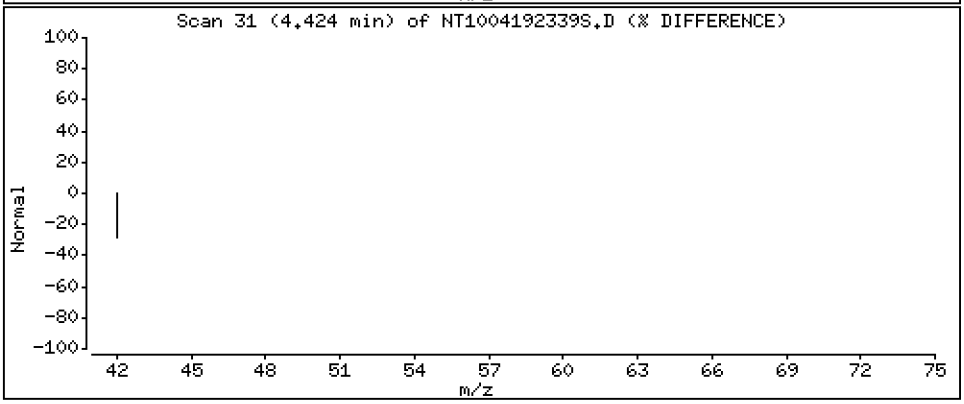












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192339S.D
Lab Smp Id: BLD0008-BSD2
Inj Date : 20-APR-2023 11:29 MS Autotune Date: 16-JAN-2023 17:42
Operator : DSD Inst ID: nt10.i
Smp Info : BLD0008-BSD2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\SIMABN2.m
Meth Date : 21-Apr-2023 13:41 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.624	6.617	(0.750)	182969	4.65663	4.657(R)
3	Phenol	94	8.239	8.240	(0.933)	151612	2.81251	2.813
7	1,3-Dichlorobenzene	146	8.765	8.766	(0.992)	152483	3.02294	3.023
* 8	1,4-Dichlorobenzene-d4	152	8.835	8.835	(1.000)	129572	4.00000	
9	1,4-Dichlorobenzene	146	8.858	8.859	(1.003)	154174	3.16624	3.166
11	Benzyl alcohol	79	9.114	9.115	(1.032)	98702	3.15831	3.158
12	1,2-Dichlorobenzene	146	9.215	9.216	(1.043)	148878	3.10894	3.109
13	2-Methylphenol	108	9.355	9.348	(1.059)	100685	2.69555	2.696
15	4-Methylphenol	108	9.627	9.627	(1.090)	118195	3.04521	3.045
16	N-Nitroso-di-n-propylamine	70	9.673	9.674	(1.095)	80977	2.95009	2.950
22	2,4-Dimethylphenol	107	10.656	10.656	(0.942)	148829	3.60712	3.607
24	Benzoic acid	105	10.902	10.809	(0.964)	553873	22.2159	22.22
26	1,2,4-Trichlorobenzene	180	11.227	11.227	(0.992)	128403	3.09358	3.094
* 27	Naphthalene-d8	136	11.312	11.312	(1.000)	477337	4.00000	
30	Hexachlorobutadiene	225	11.721	11.721	(1.036)	88739	3.51653	3.517
39	Dimethylphthalate	163	14.445	14.446	(0.968)	310784	3.74303	3.743
* 42	Acenaphthene-d10	162	14.917	14.918	(1.000)	263111	4.00000	
50	Diethylphthalate	149	15.907	15.900	(1.066)	343502	3.99349	3.993
54	N-Nitrosodiphenylamine	169	16.277	16.278	(0.907)	200529	3.14585	3.146
57	Hexachlorobenzene	284	17.327	17.327	(0.965)	110834	3.88407	3.884

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.699	17.699	(0.986)	193876	11.4482	11.45
*	59 Phenanthrene-d10	188	17.946	17.947	(1.000)	475106	4.00000	
$	66 Terphenyl-d14	244	21.134	21.142	(0.917)	238526	3.13567	3.136(R)
	67 Butylbenzylphthalate	149	22.086	22.094	(0.959)	231490	3.61896	3.619
*	69 Chrysene-d12	240	23.039	23.047	(1.000)	466863	4.00000	
*	77 Perylene-d12	264	25.586	25.594	(1.000)	513987	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.105	28.113	(1.098)	415309	2.49742	2.497
	90 N-Nitrosodimethylamine	74	4.423	4.408	(0.501)	148478	5.95807	5.958

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192339S.D
Lab Smp Id: BLD0008-BSD2
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\SIMABN2.m
Misc Info:

Calibration Date: 20-APR-2023
Calibration Time: 08:57
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	128281	64141	256562	129572	1.01
27 Naphthalene-d8	458707	229354	917414	477337	4.06
42 Acenaphthene-d10	243296	121648	486592	263111	8.14
59 Phenanthrene-d10	433853	216927	867706	475106	9.51
69 Chrysene-d12	435413	217707	870826	466863	7.22
77 Perylene-d12	490854	245427	981708	513987	4.71

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.84	8.34	9.34	8.84	-0.00
27 Naphthalene-d8	11.31	10.81	11.81	11.31	-0.00
42 Acenaphthene-d10	14.92	14.42	15.42	14.92	-0.00
59 Phenanthrene-d10	17.95	17.45	18.45	17.95	-0.00
69 Chrysene-d12	23.05	22.55	23.55	23.04	-0.03
77 Perylene-d12	25.59	25.09	26.09	25.59	-0.03

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

REVIEW SUMMARY FOR FILE - NT1004192339S.D

Lab ID: BLD0008-BSD2
nt10.i, 20230419B.b\20230419B.b\SIMABN2.m,   20-APR-2023 11:29

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.964	0.956	0.0082	Benzoic acid

RRT check based on Ccal File: 20230419B.b/NT1004192335S.D

On Column LOD for nt10.i, 20230419B.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1810

MS / MS DUPLICATE RECOVERY
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	04/20/23 15:18
Batch:	BLD0008	Laboratory ID:	BLD0008-MS2
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	18.97 g / 1 mL	Source Sample:	LDW23-SS1810

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
1,4-Dichlorobenzene	500	1.0	J	314		62.7	36 - 120
1,2-Dichlorobenzene	500	ND	U	310		62.0	36 - 120
Benzyl Alcohol	500	15.9	J	370		70.8	25 - 123
Benzoic acid	2300	32.8	J	951		39.9	10 - 160
2,4-Dimethylphenol	1300	ND	U	272		20.9	10 - 120
1,2,4-Trichlorobenzene	500	ND	U	327		65.4	35 - 120
N-Nitrosodiphenylamine	500	ND	U	300		59.9	27 - 120
Pentachlorophenol	1300	3.2	J	1230		94.1	26 - 120

* Values outside of QC limits

MS / MS DUPLICATE RECOVERY
EPA 8270E-SIM

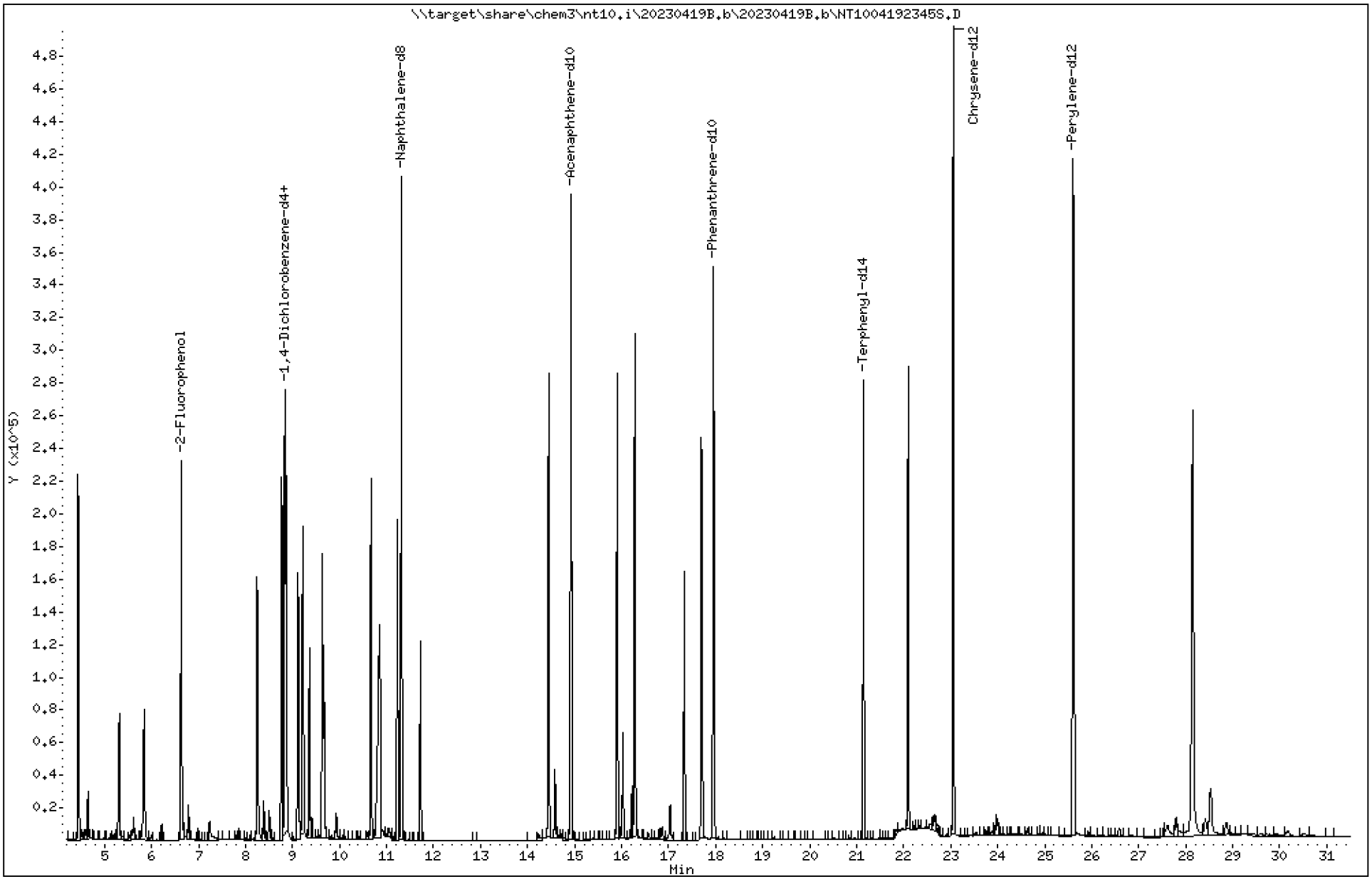
Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	04/20/23 15:56
Batch:	BLD0008	Laboratory ID:	BLD0008-MSD2
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	18.97 g / 1 mL	Source Sample:	LDW23-SS1810

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,4-Dichlorobenzene	500	303		60.4	3.74	30	36 - 120
1,2-Dichlorobenzene	500	298		59.6	3.89	30	36 - 120
Benzyl Alcohol	500	331		62.9	11.3	30	25 - 123
Benzoic acid	2300	839		35.1	12.4	30	10 - 160
2,4-Dimethylphenol	1300	610	*	46.9	76.8 *	30	10 - 120
1,2,4-Trichlorobenzene	500	326		65.3	0.163	30	35 - 120
N-Nitrosodiphenylamine	500	329		65.8	9.27	30	27 - 120
Pentachlorophenol	1300	1150		88.0	6.71	30	26 - 120

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT10041923455.D
Date : 20-APR-2023 15:18
Client ID:
Sample Info: BLD0008-MS2
Volume Injected (uL): 1.0
Column phase: ZB-5msi

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



Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192345S.D

Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS2

Volume Injected (uL): 1.0

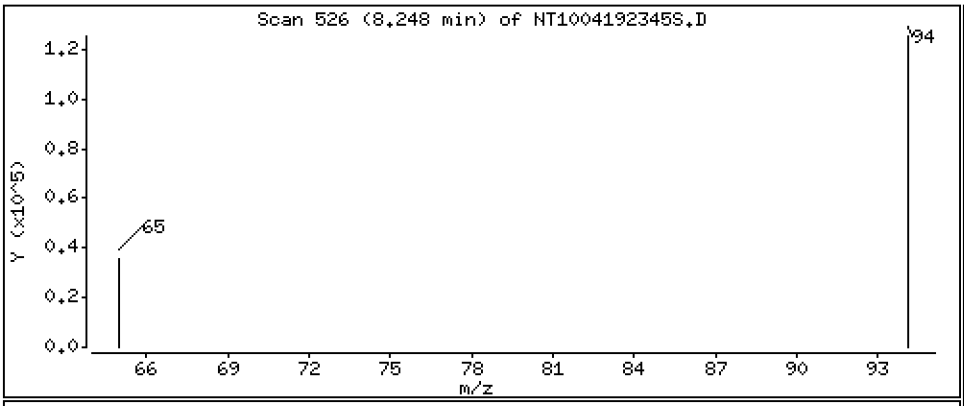
Operator: DSD

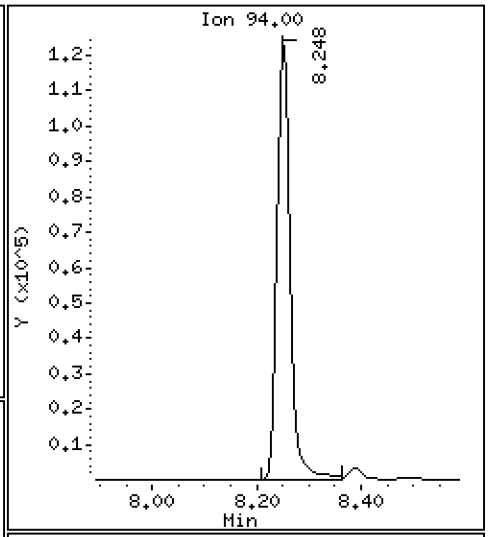
Column phase: ZB-5msi

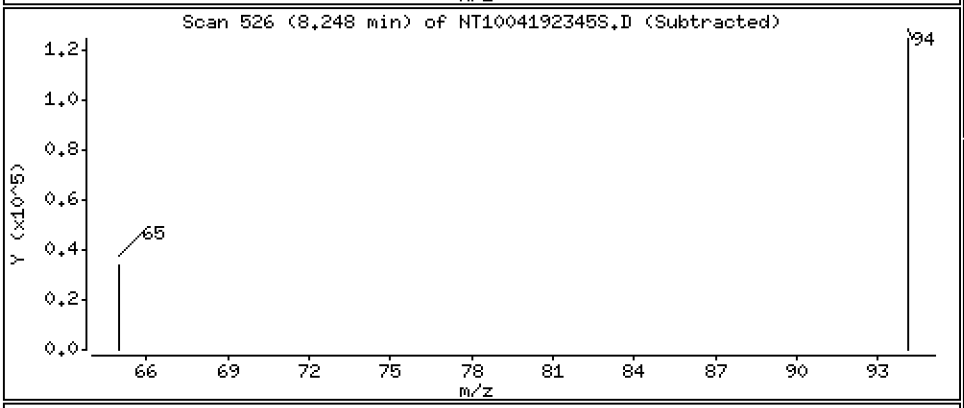
Column diameter: 0.25

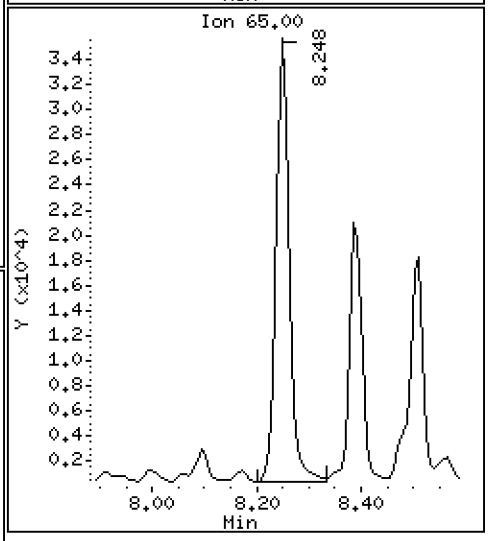
3 Phenol

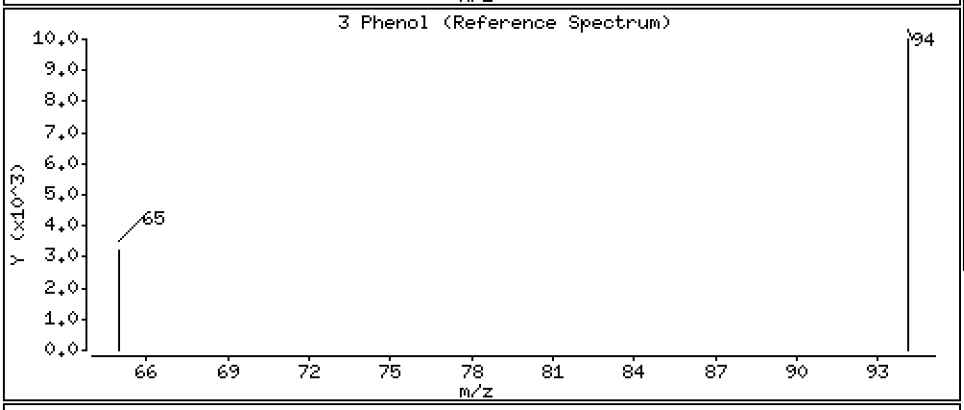
Concentration: 3.023 ug/L

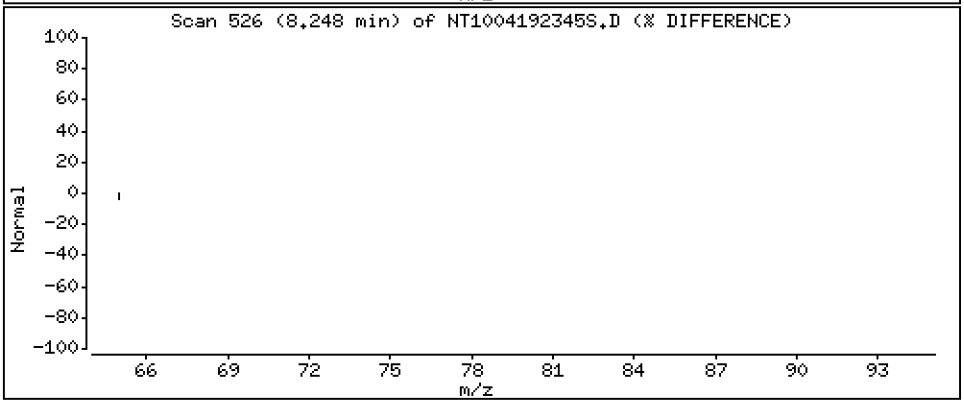












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192345S.D

Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS2

Volume Injected (uL): 1.0

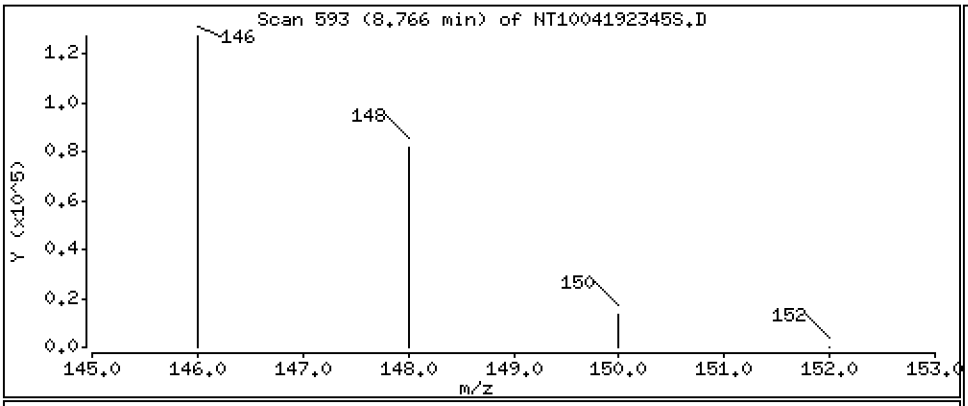
Operator: DSD

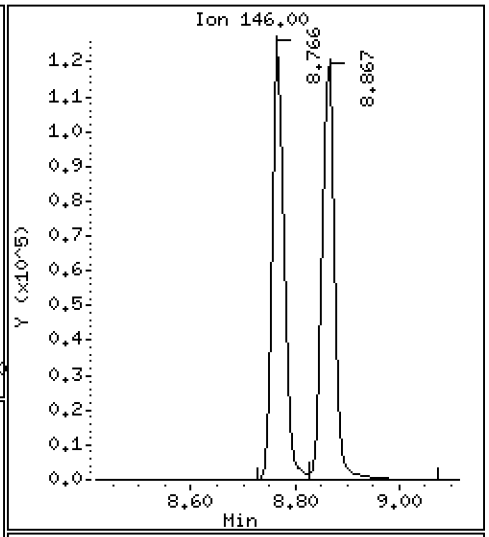
Column phase: ZB-5msi

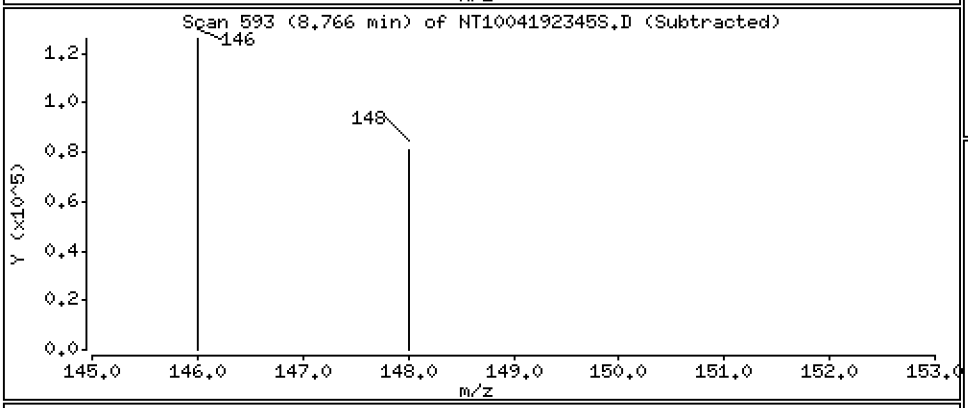
Column diameter: 0.25

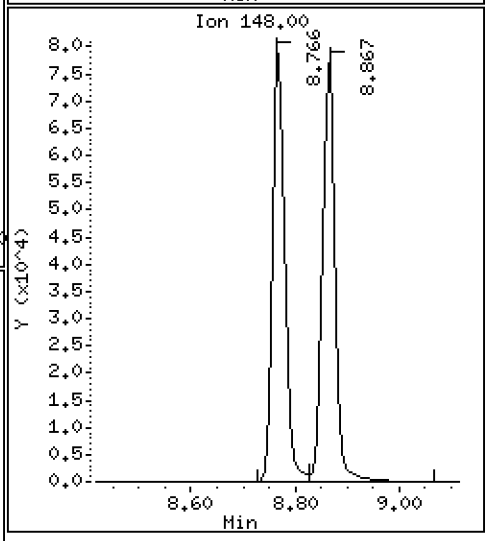
7 1,3-Dichlorobenzene

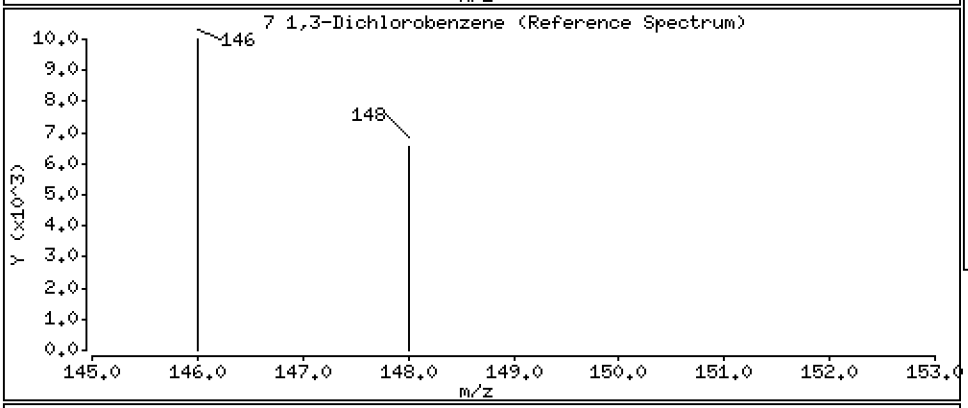
Concentration: 3.001 ug/L

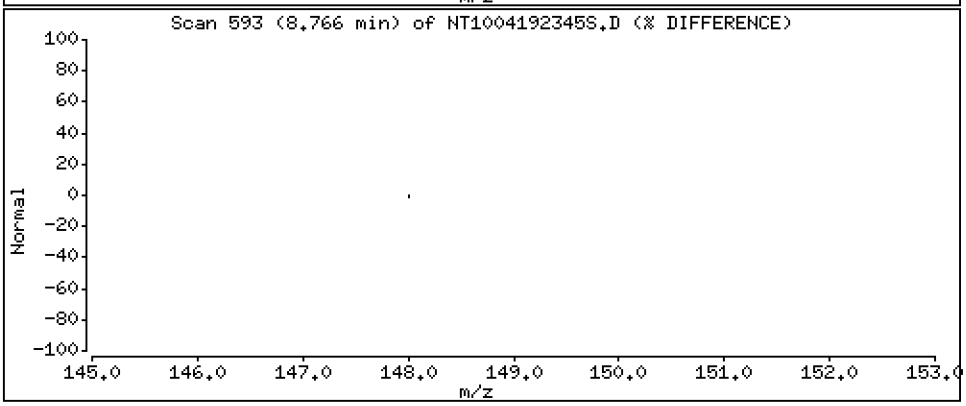












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192345S.D

Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS2

Volume Injected (uL): 1.0

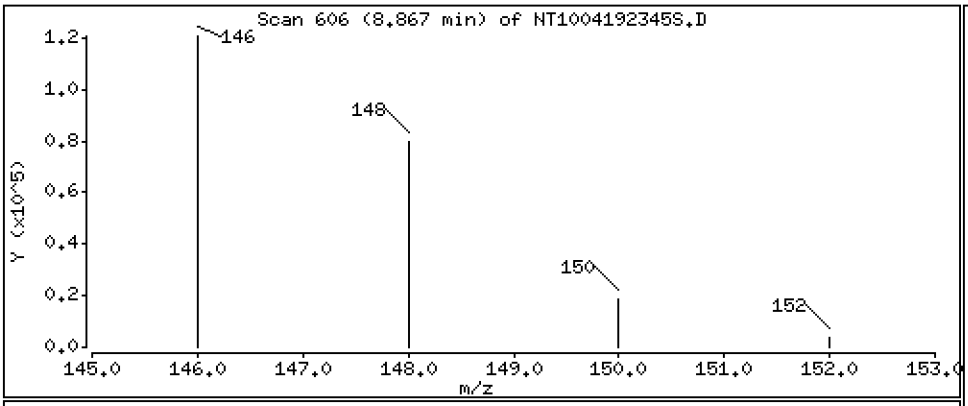
Operator: DSD

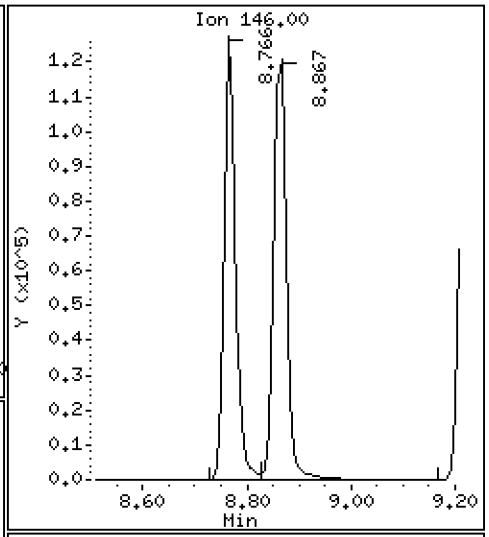
Column phase: ZB-5msi

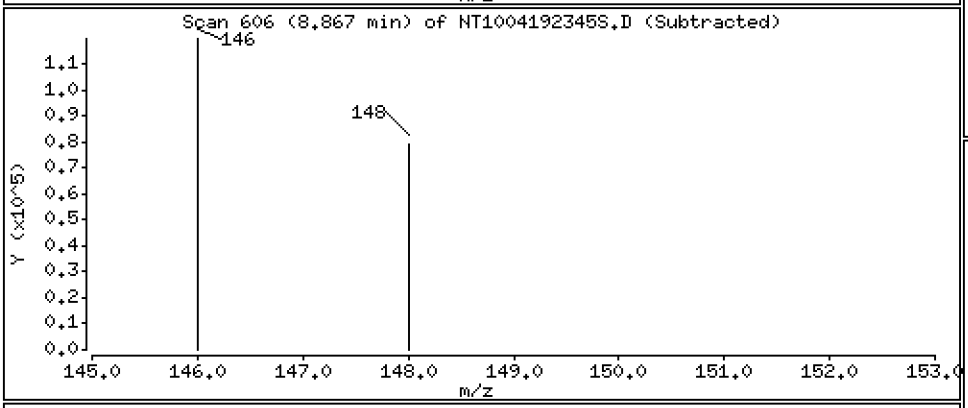
Column diameter: 0.25

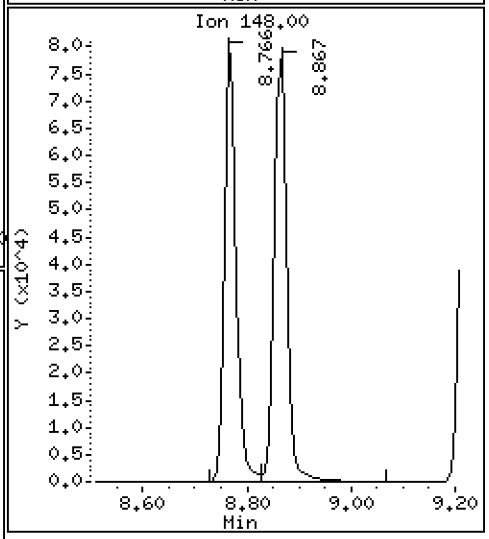
9 1,4-Dichlorobenzene

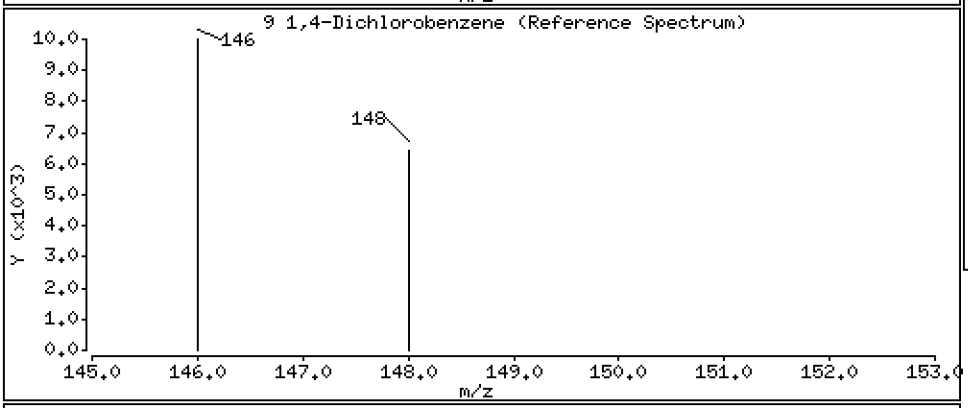
Concentration: 3.143 ug/L

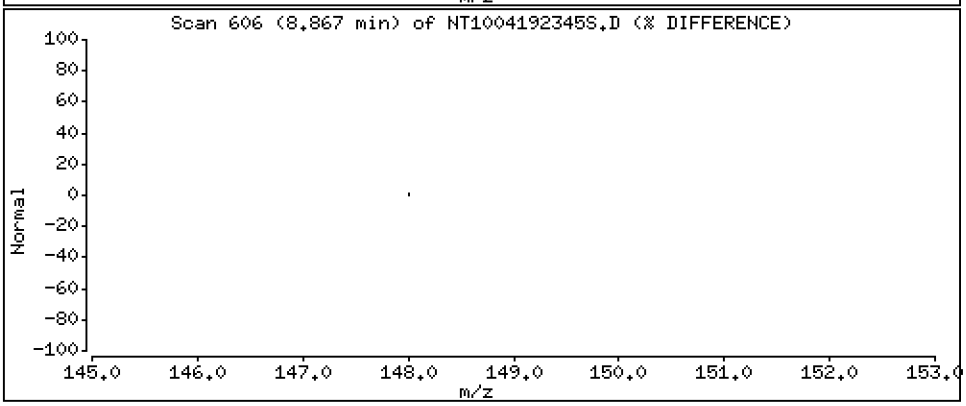












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192345S.D

Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS2

Volume Injected (uL): 1.0

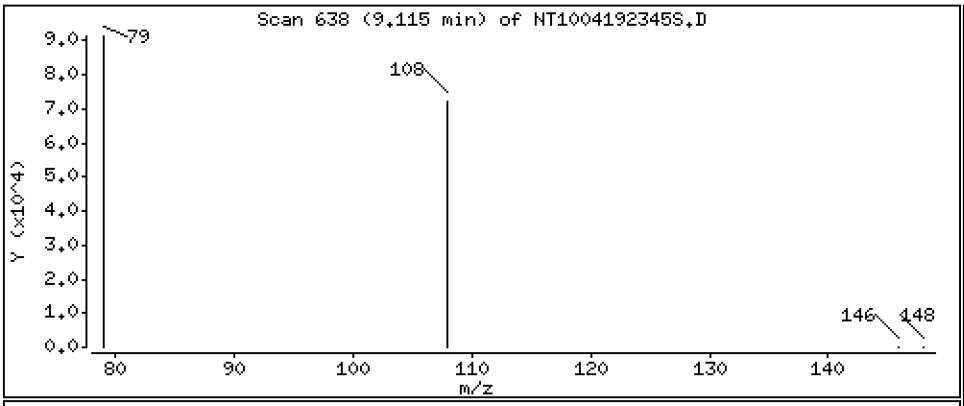
Operator: DSD

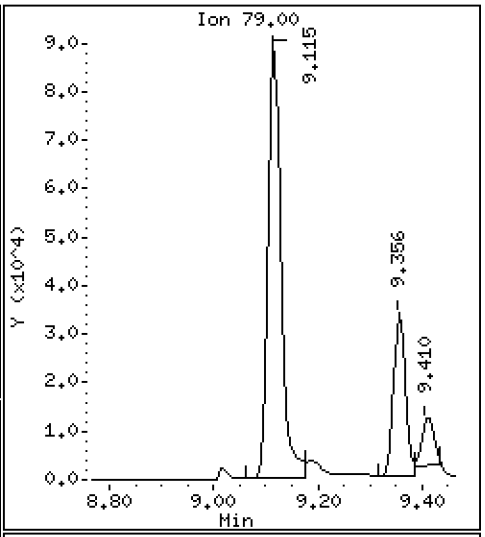
Column phase: ZB-5msi

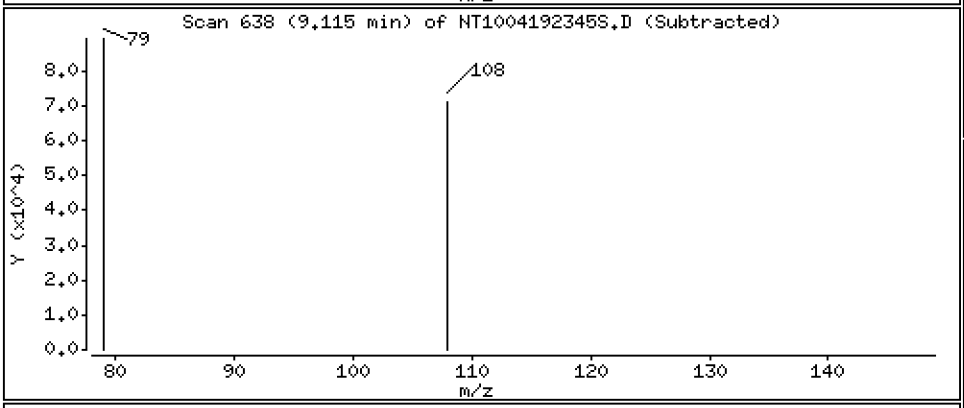
Column diameter: 0.25

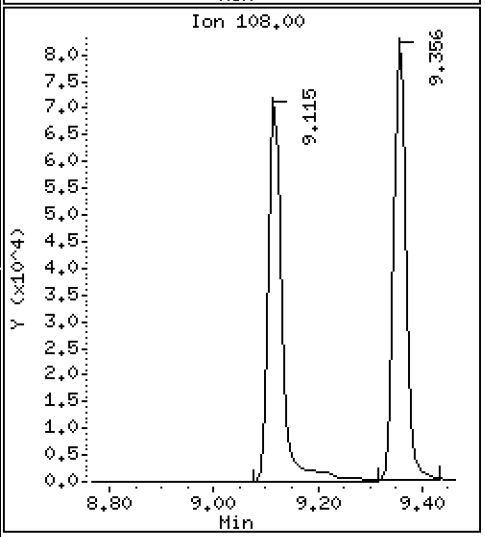
11 Benzyl alcohol

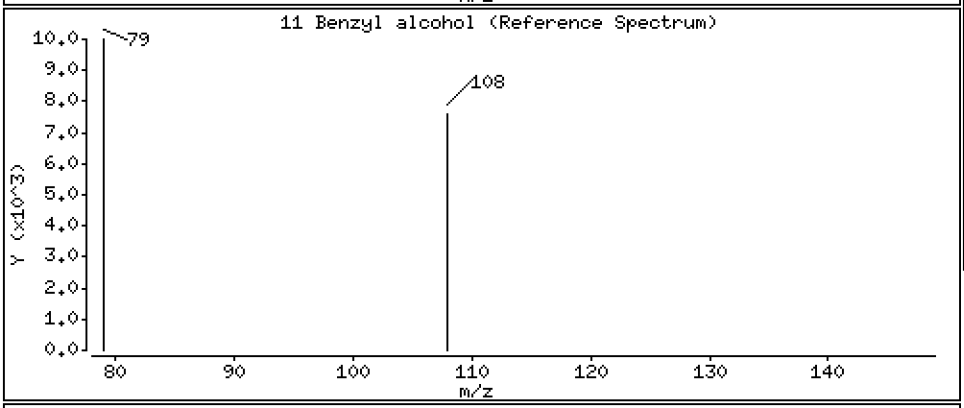
Concentration: 3.700 ug/L

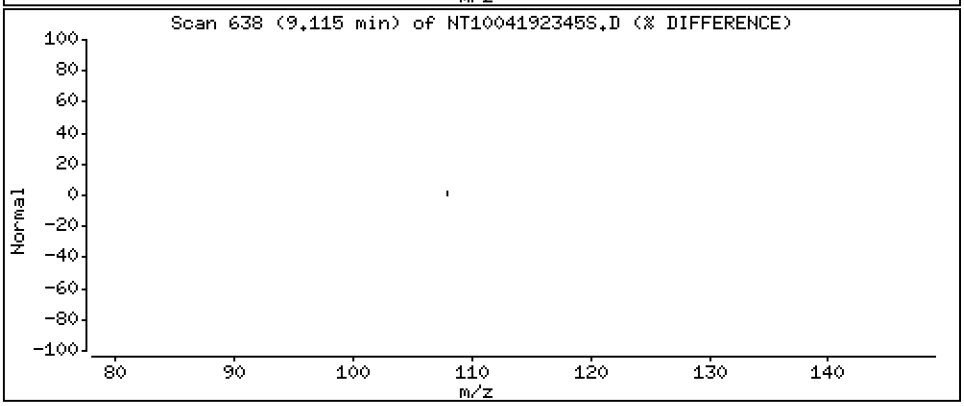












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS2

Volume Injected (uL): 1.0

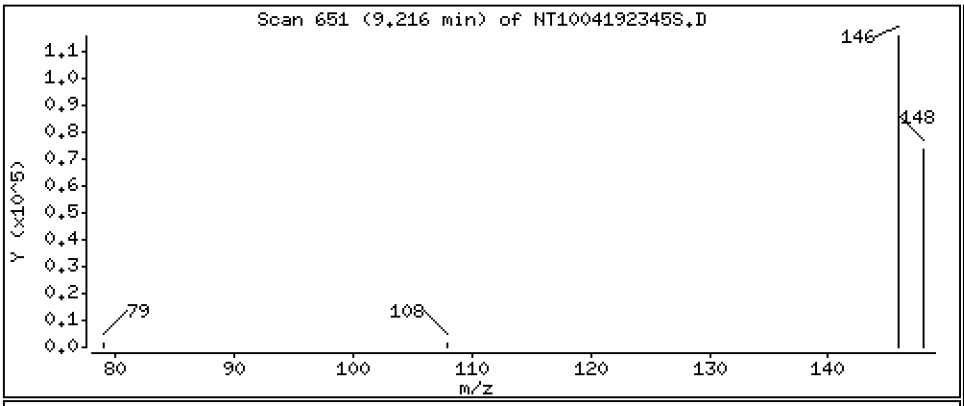
Operator: DSD

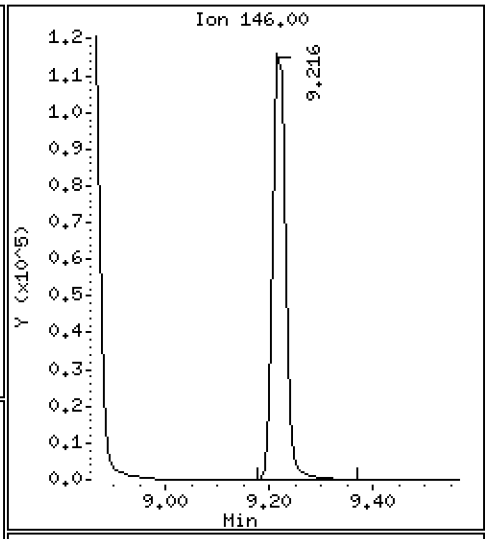
Column phase: ZB-5msi

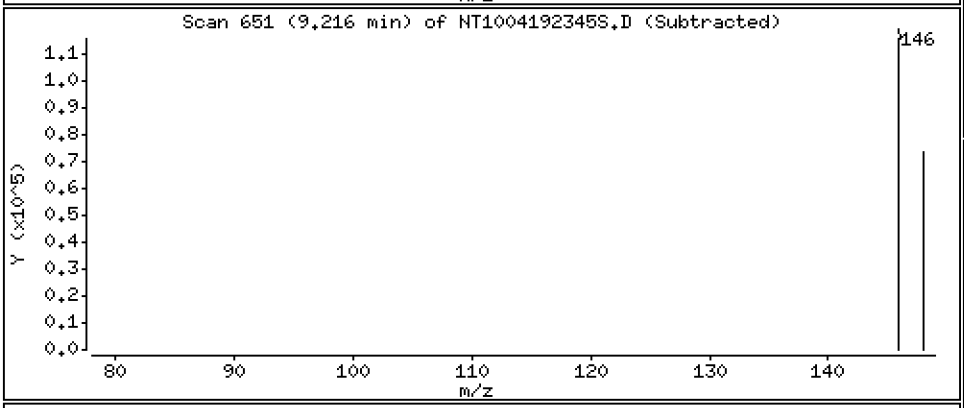
Column diameter: 0.25

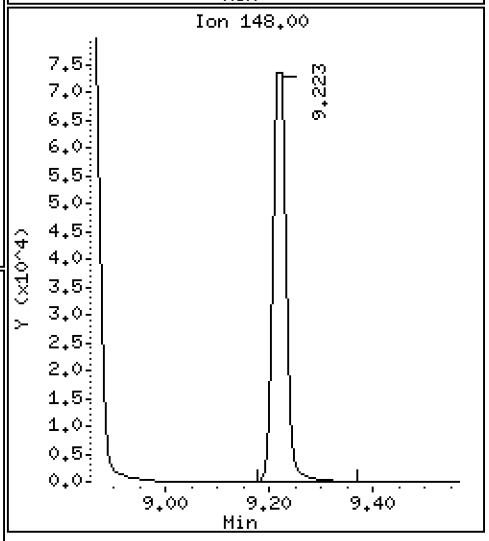
12 1,2-Dichlorobenzene

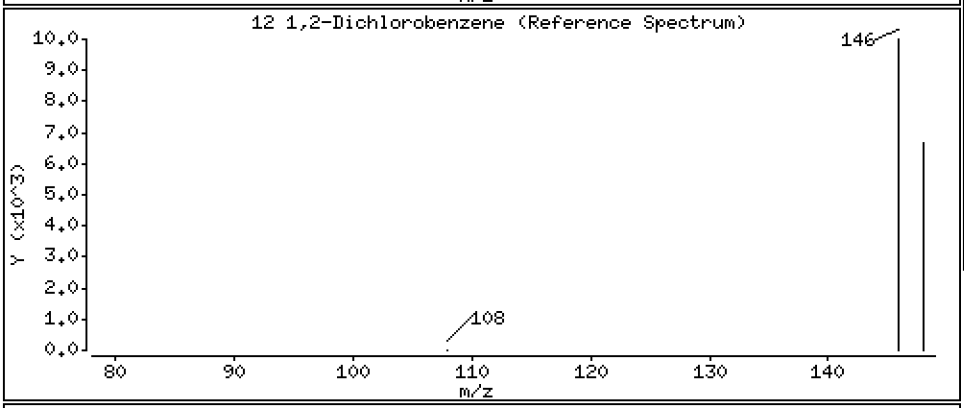
Concentration: 3.100 ug/L

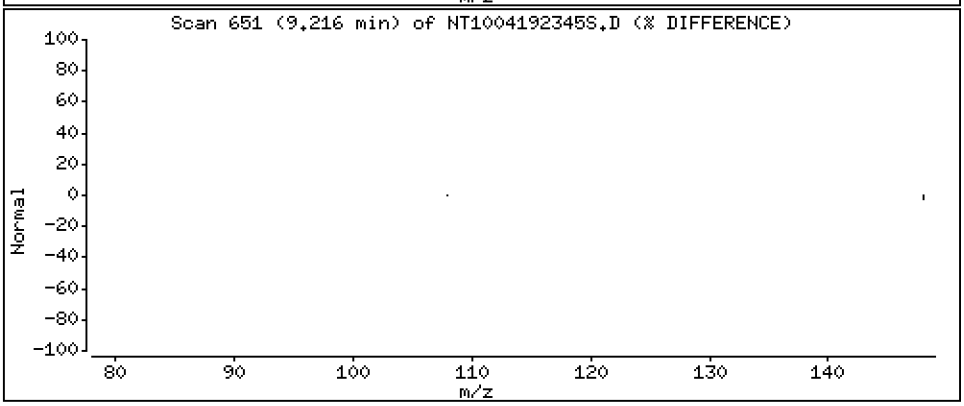












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192345S.D

Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS2

Volume Injected (uL): 1.0

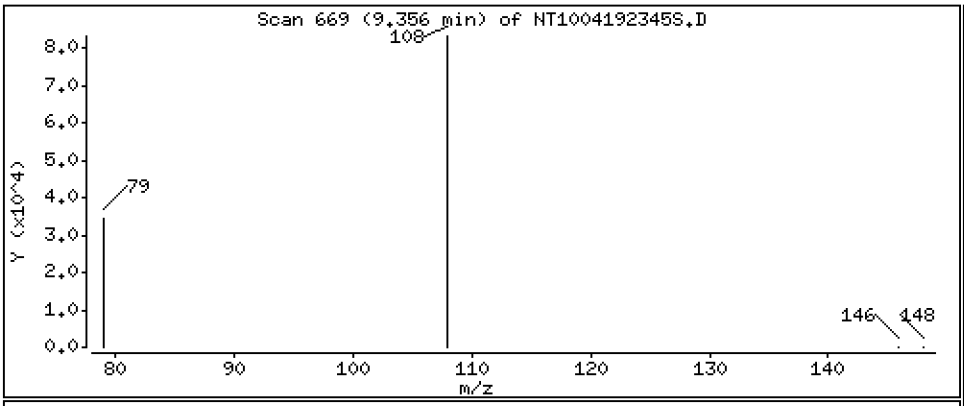
Operator: DSD

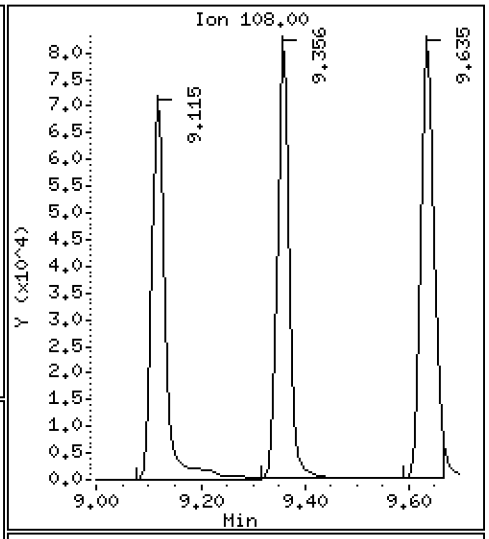
Column phase: ZB-5msi

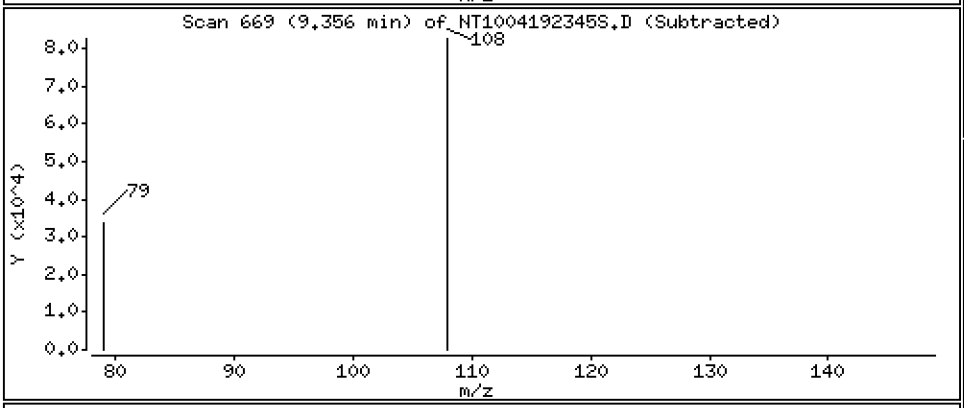
Column diameter: 0.25

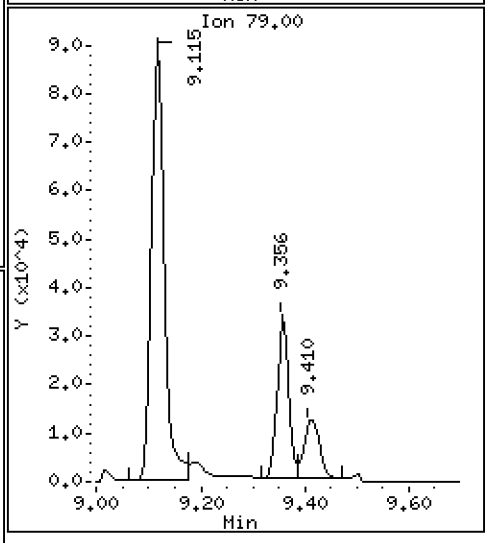
13 2-Methylphenol

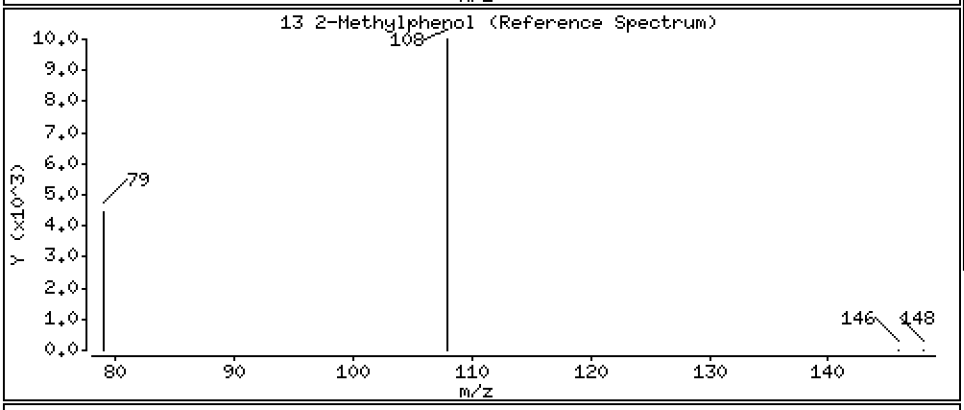
Concentration: 2.734 ug/L

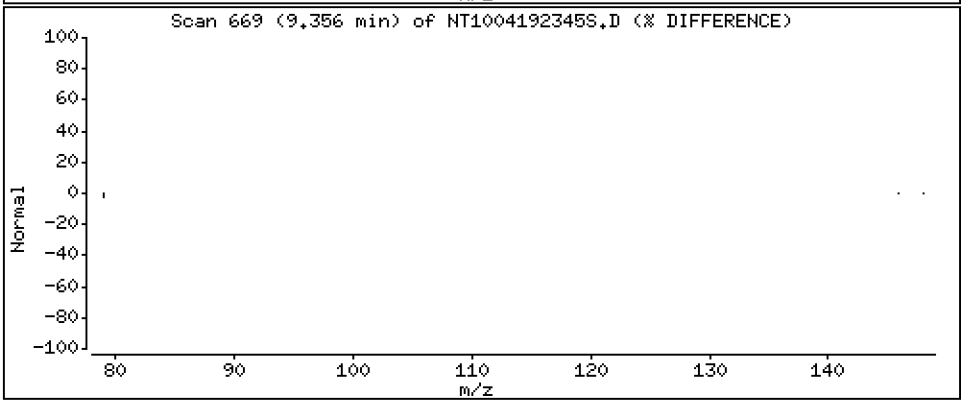












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS2

Volume Injected (uL): 1.0

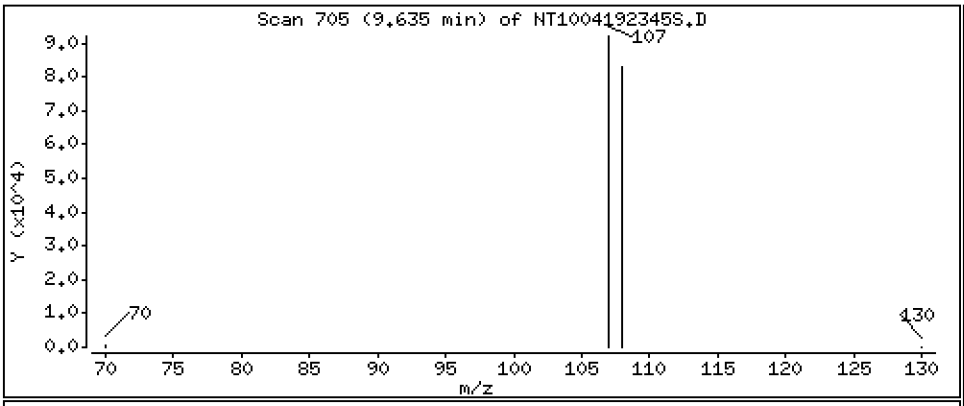
Operator: DSD

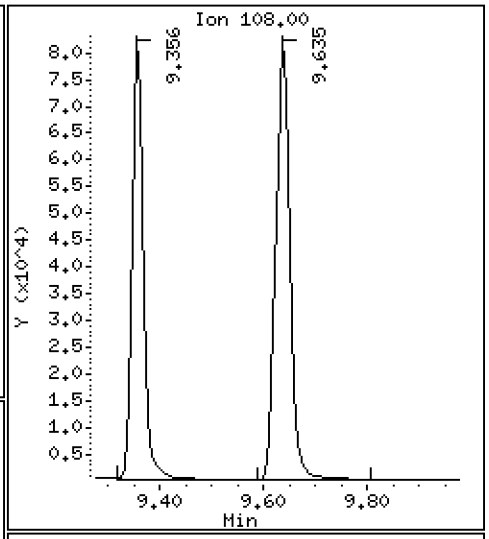
Column phase: ZB-5msi

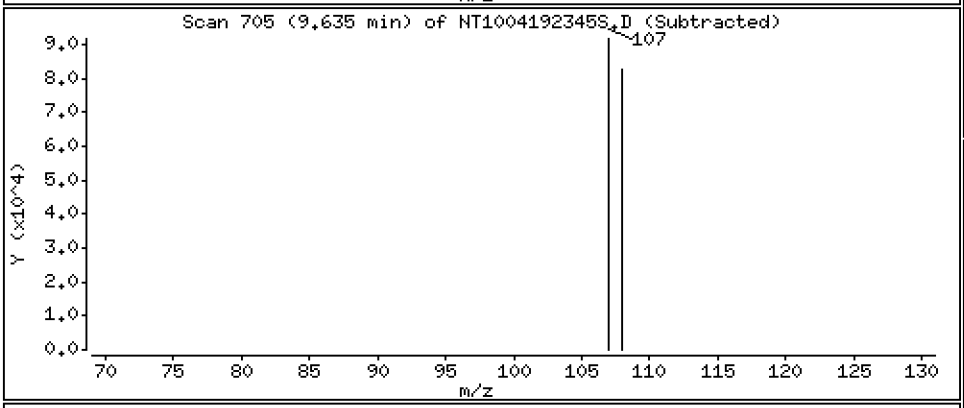
Column diameter: 0.25

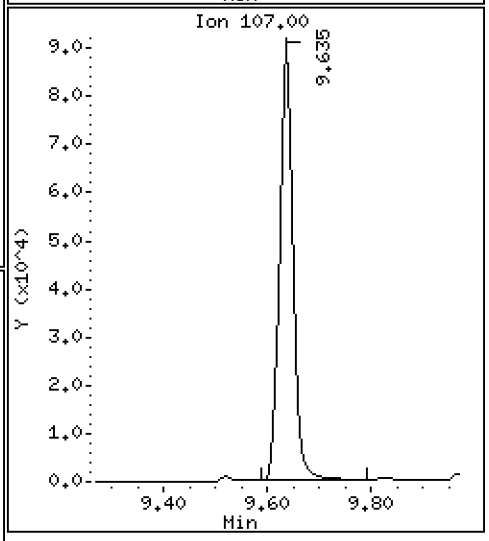
15 4-Methylphenol

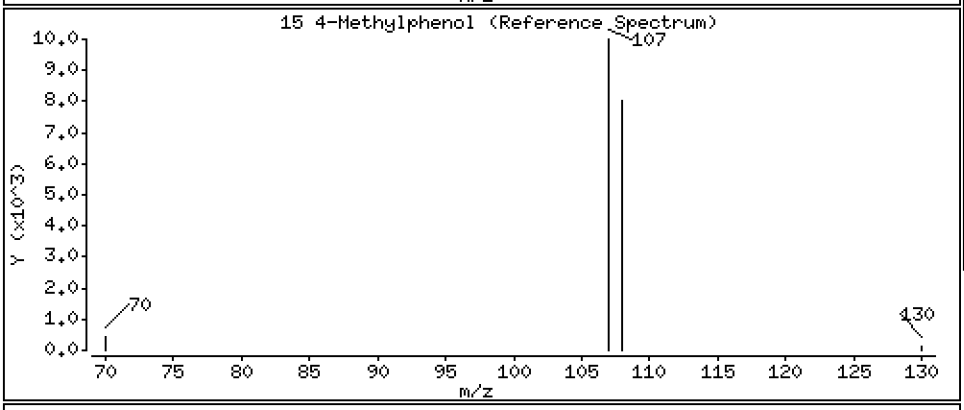
Concentration: 3.104 ug/L

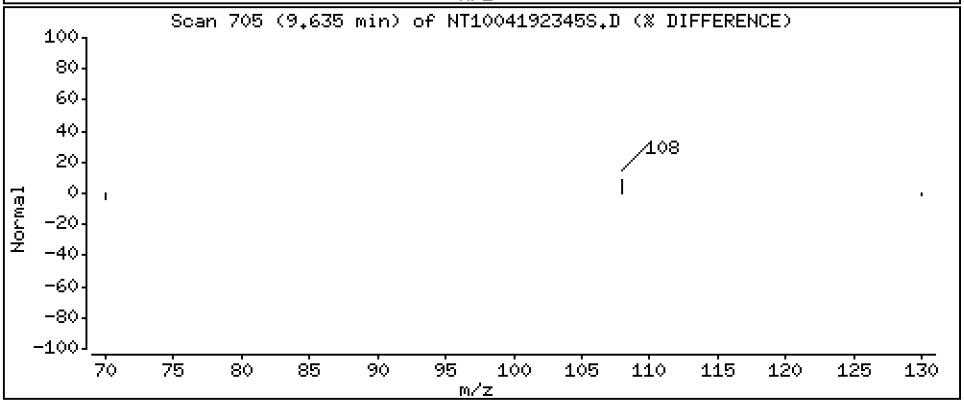












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS2

Volume Injected (uL): 1.0

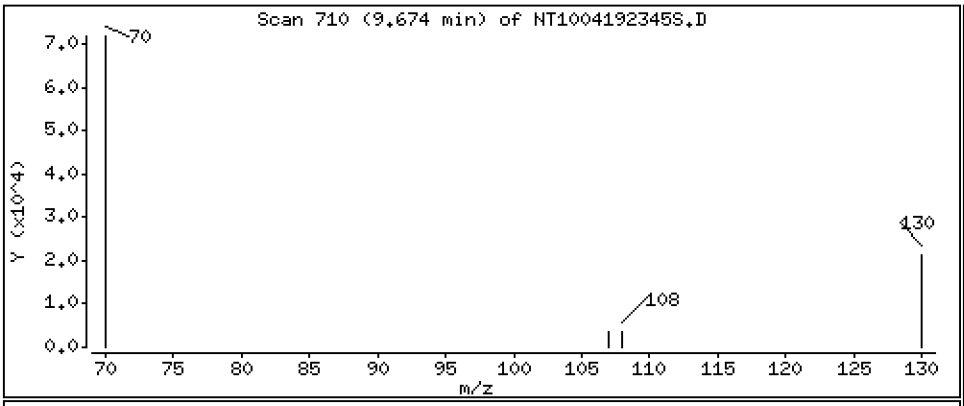
Operator: DSD

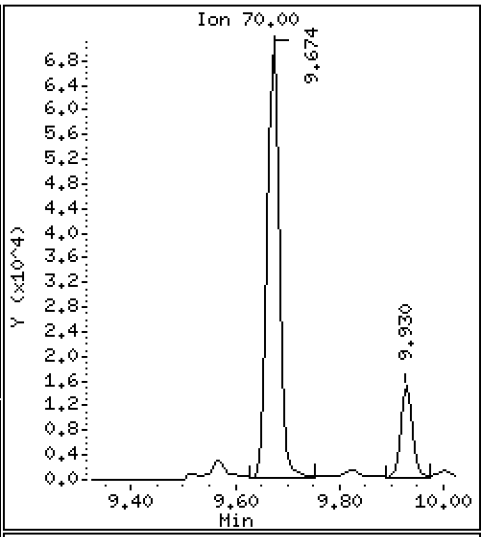
Column phase: ZB-5msi

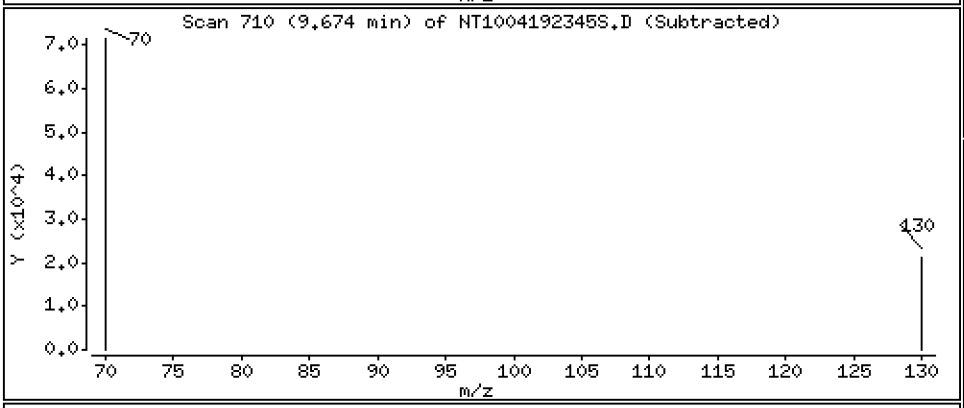
Column diameter: 0.25

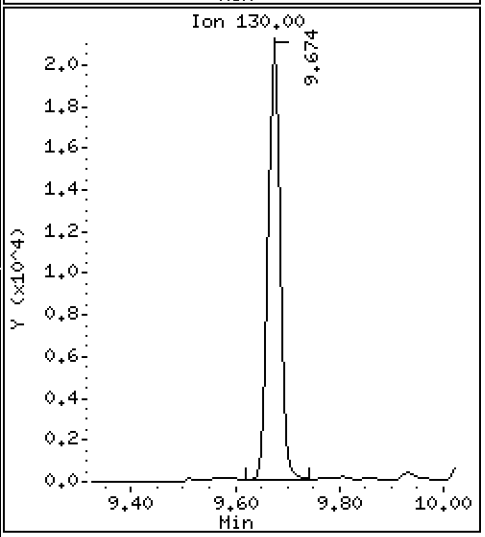
16 N-Nitroso-di-n-propylamine

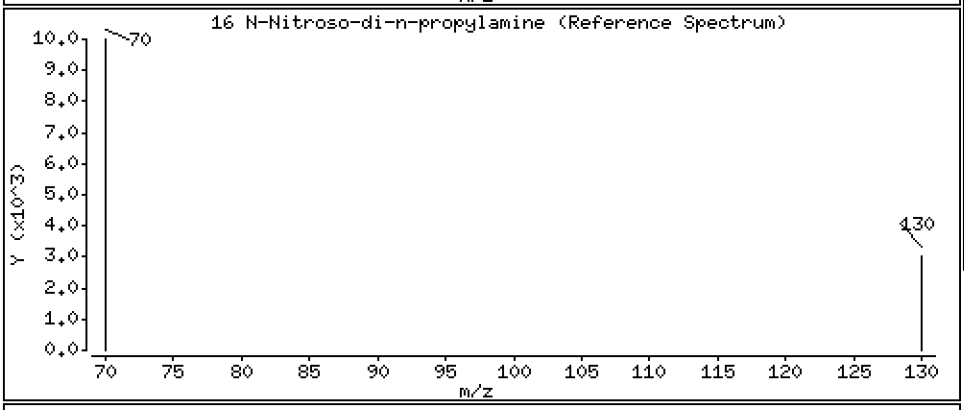
Concentration: 3.084 ug/L

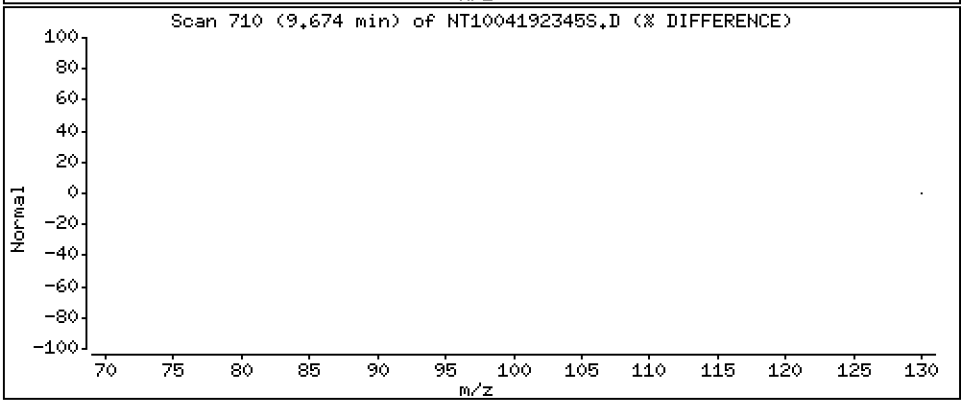












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS2

Volume Injected (uL): 1.0

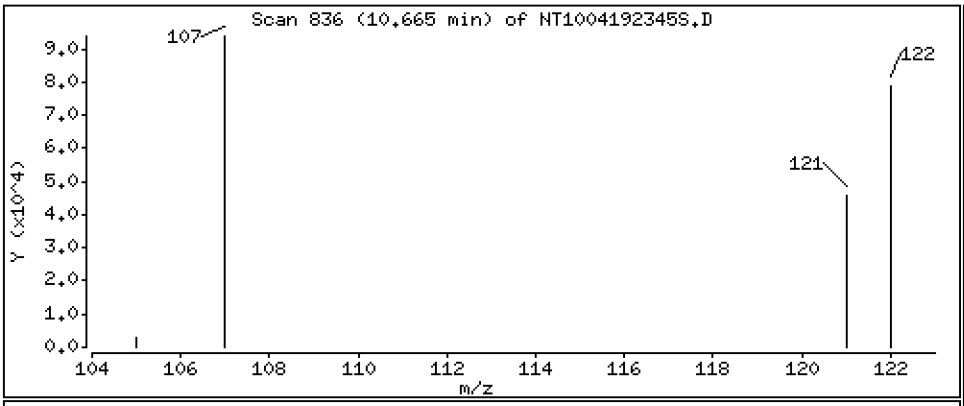
Operator: DSD

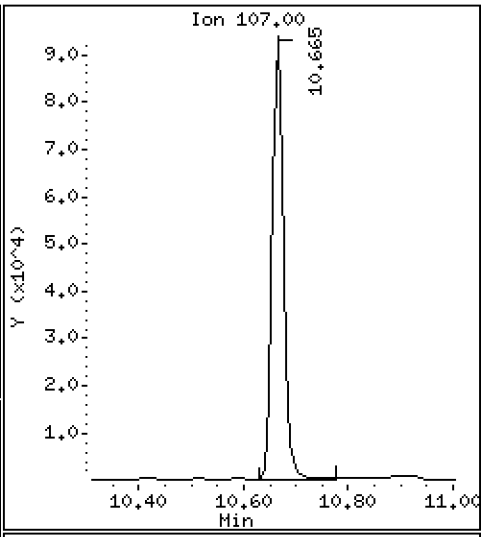
Column phase: ZB-5msi

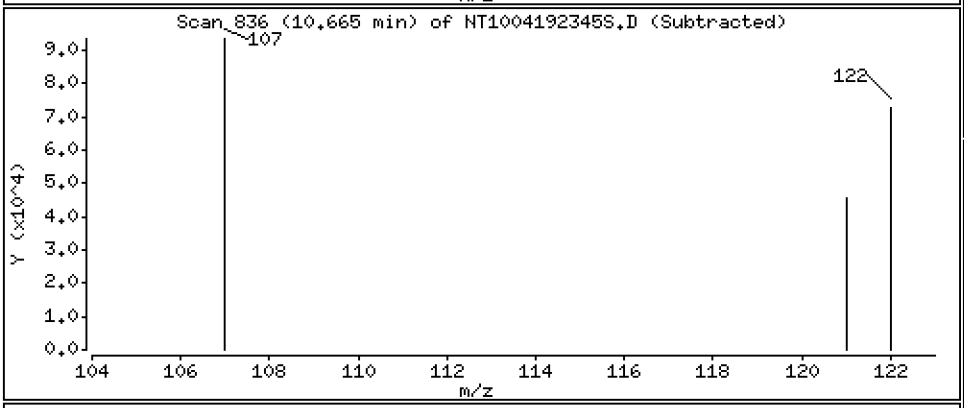
Column diameter: 0.25

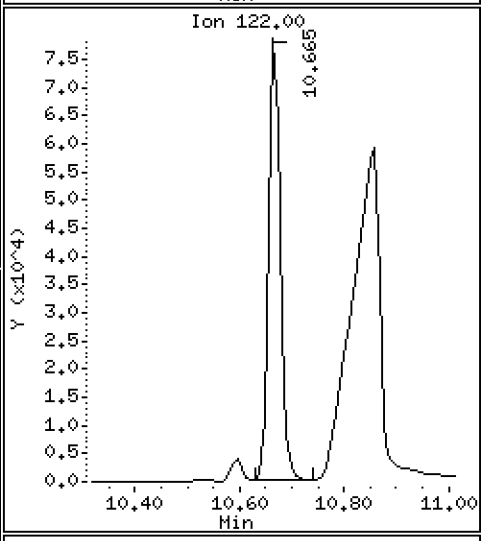
22 2,4-Dimethylphenol

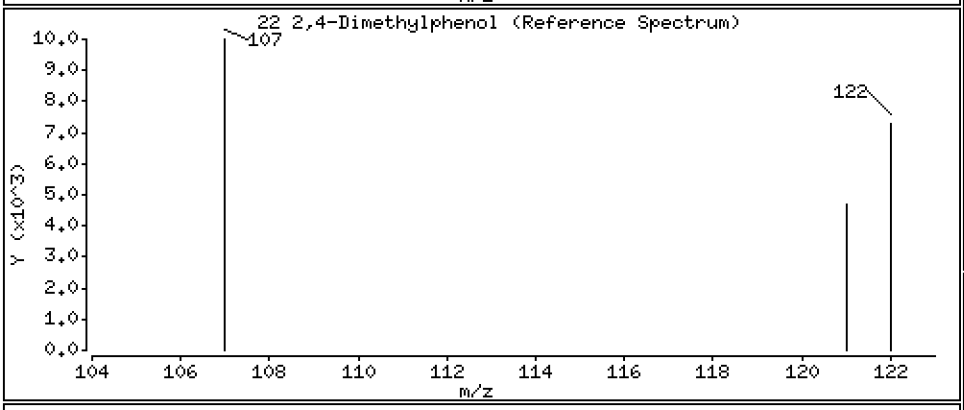
Concentration: 2.715 ug/L

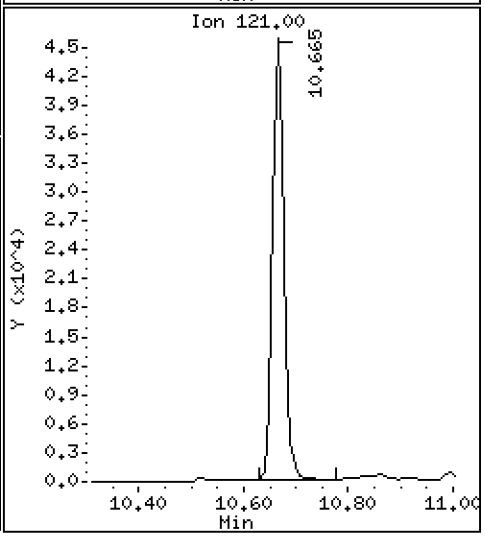


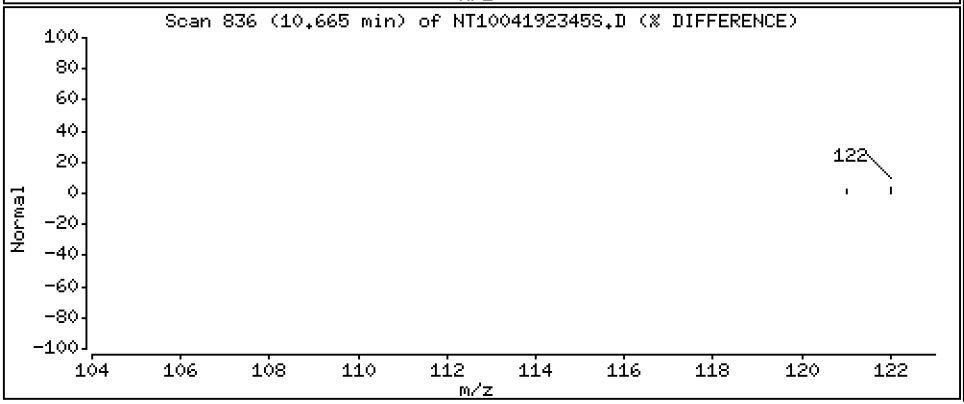












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS2

Volume Injected (uL): 1.0

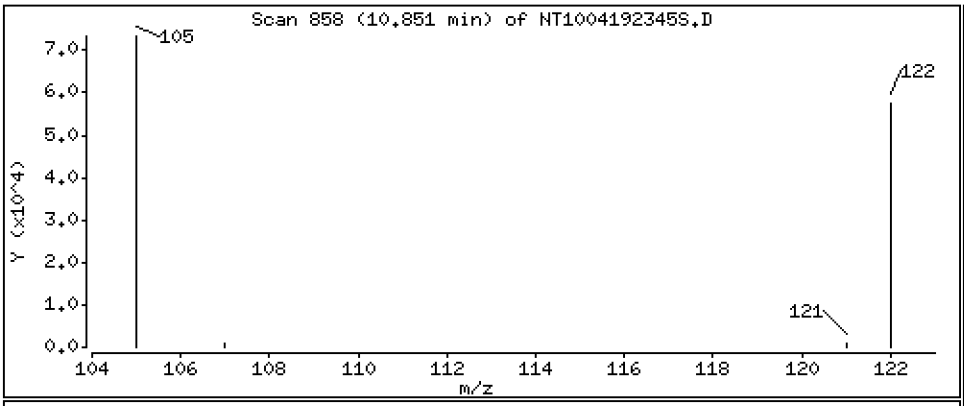
Operator: DSD

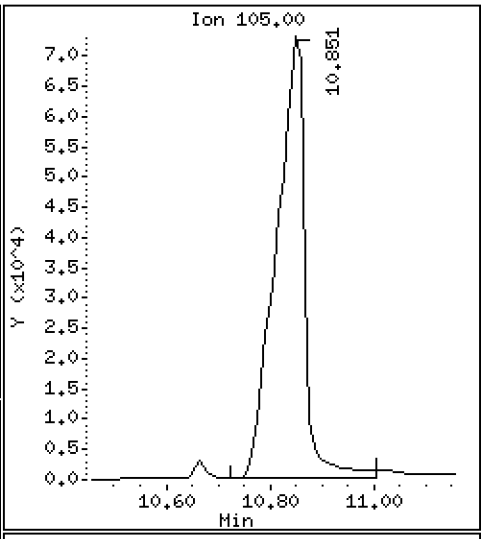
Column phase: ZB-5msi

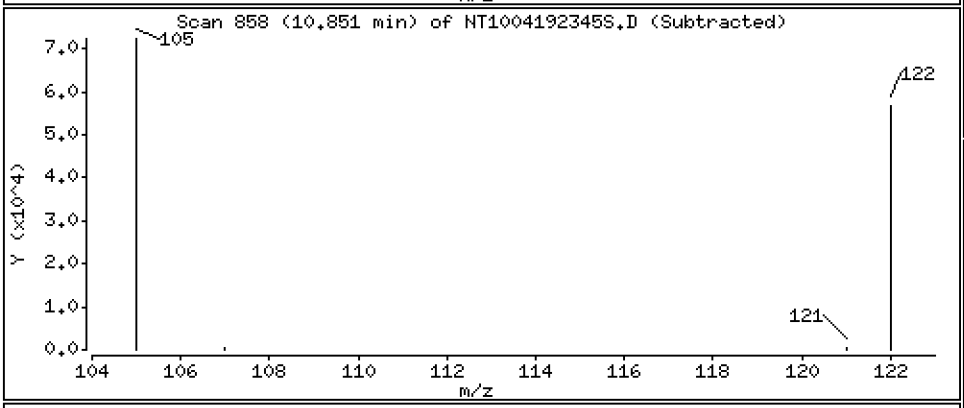
Column diameter: 0.25

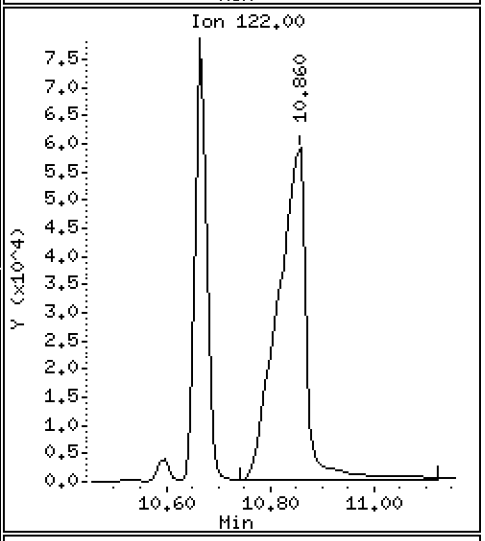
24 Benzoic acid

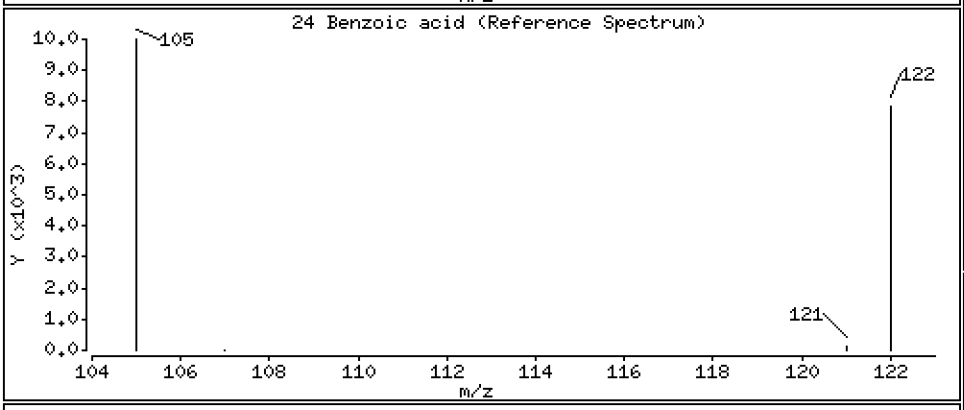
Concentration: 9.506 ug/L

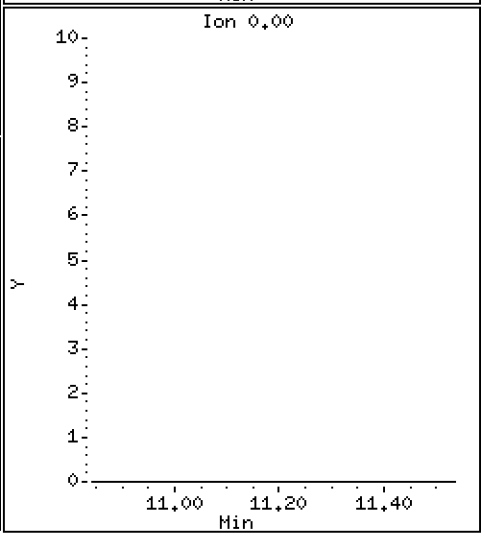


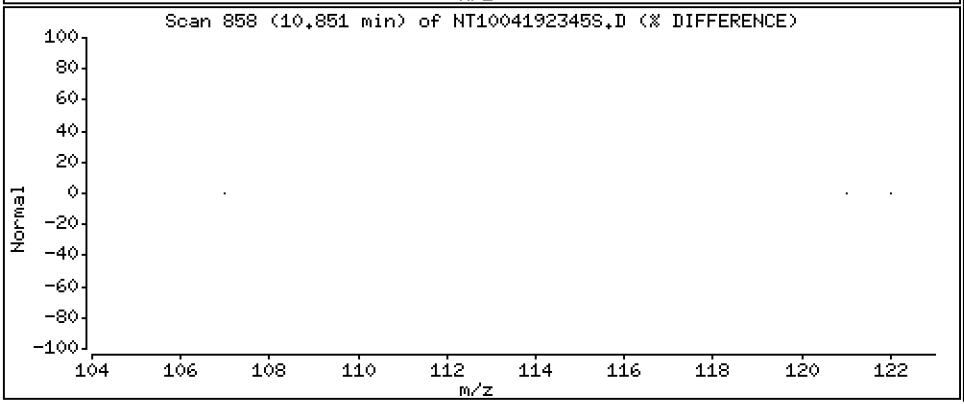












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS2

Volume Injected (uL): 1.0

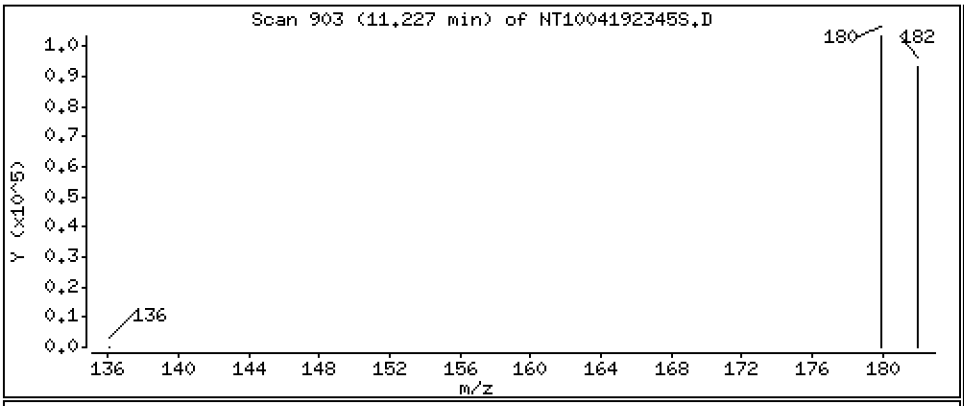
Operator: DSD

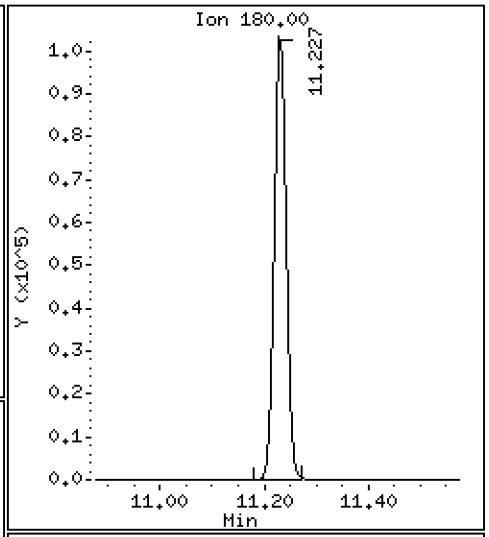
Column phase: ZB-5msi

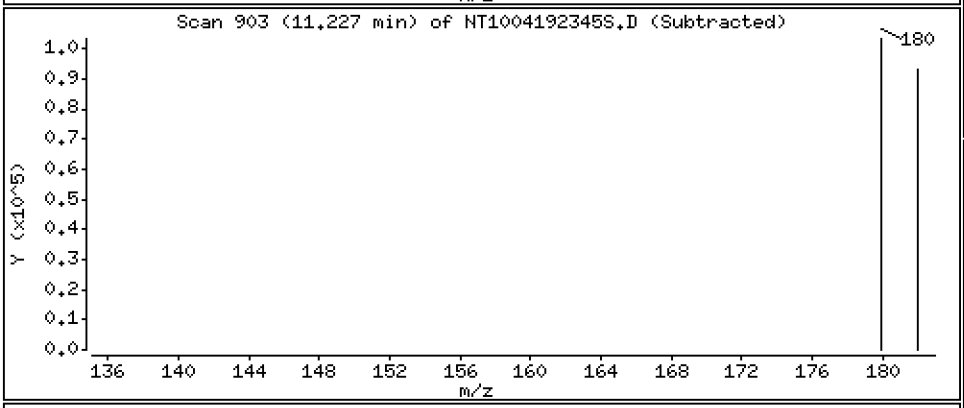
Column diameter: 0.25

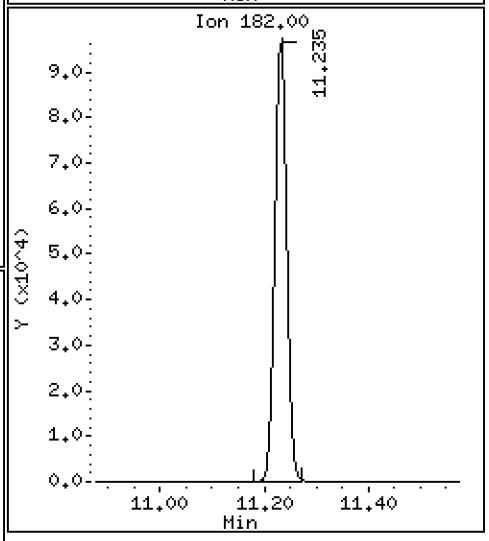
26 1,2,4-Trichlorobenzene

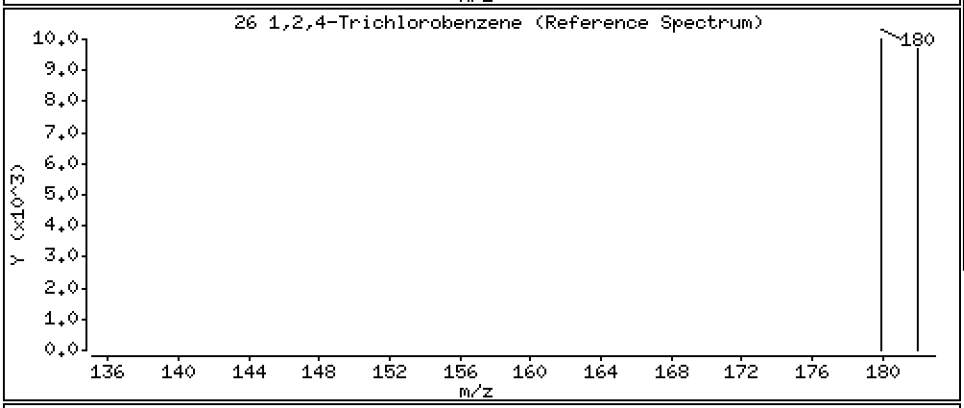
Concentration: 3.270 ug/L

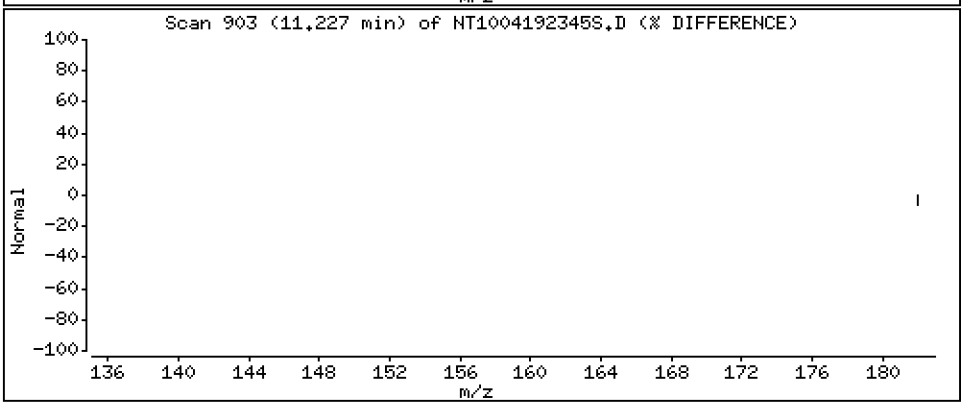












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS2

Volume Injected (uL): 1.0

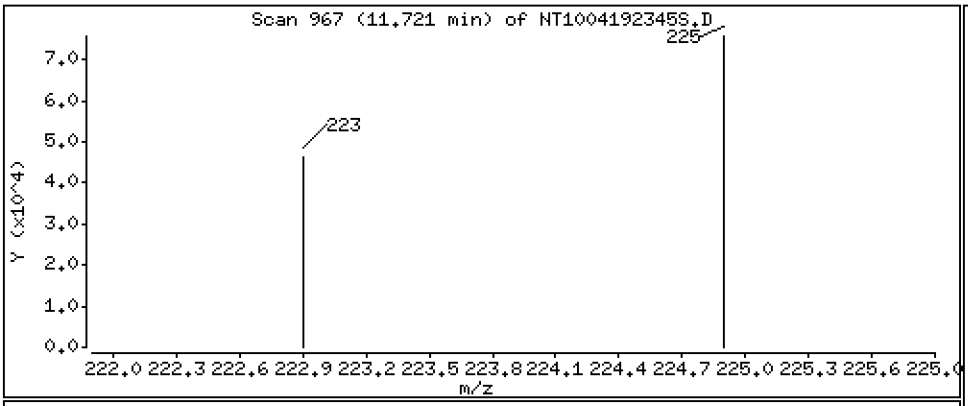
Operator: DSD

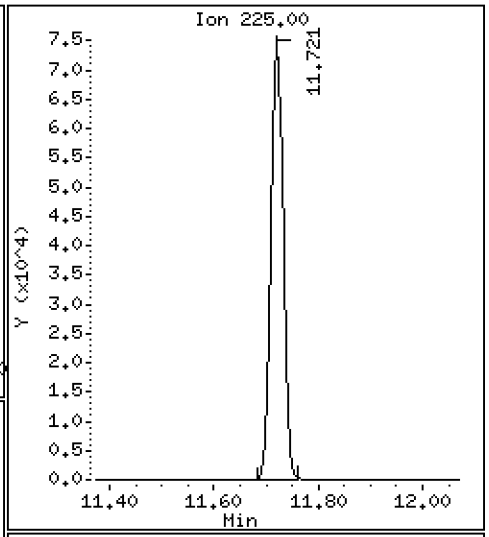
Column phase: ZB-5msi

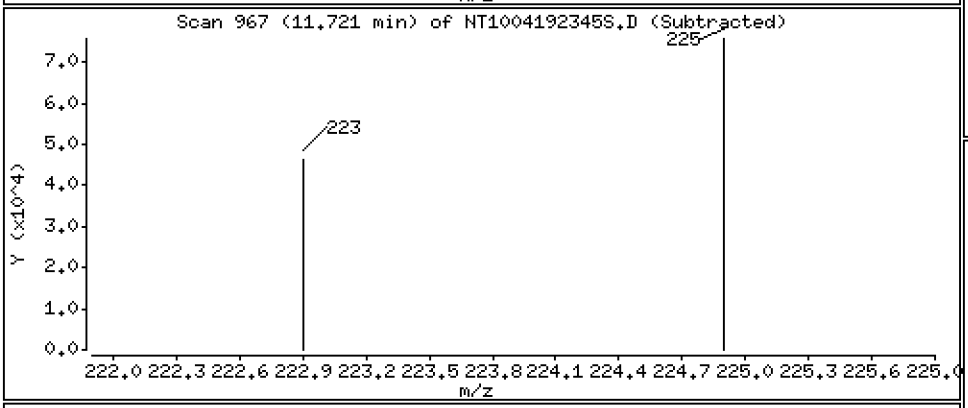
Column diameter: 0.25

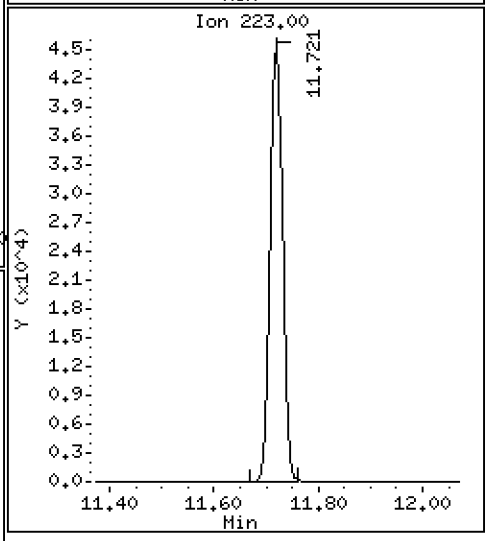
30 Hexachlorobutadiene

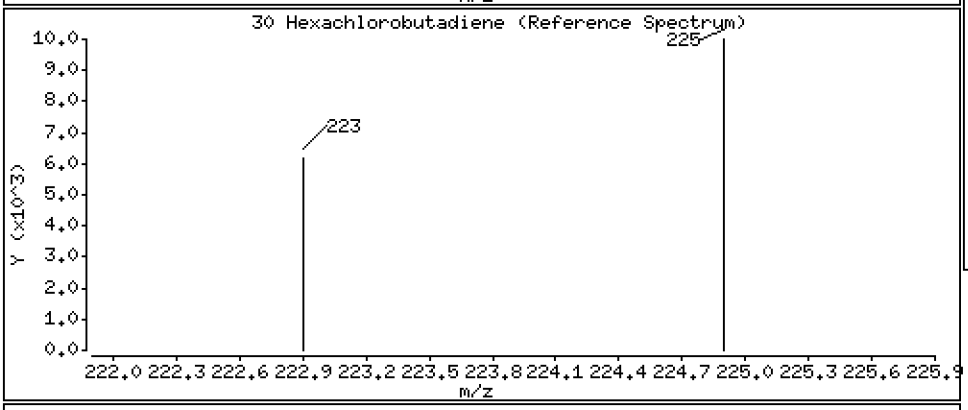
Concentration: 3.582 ug/L

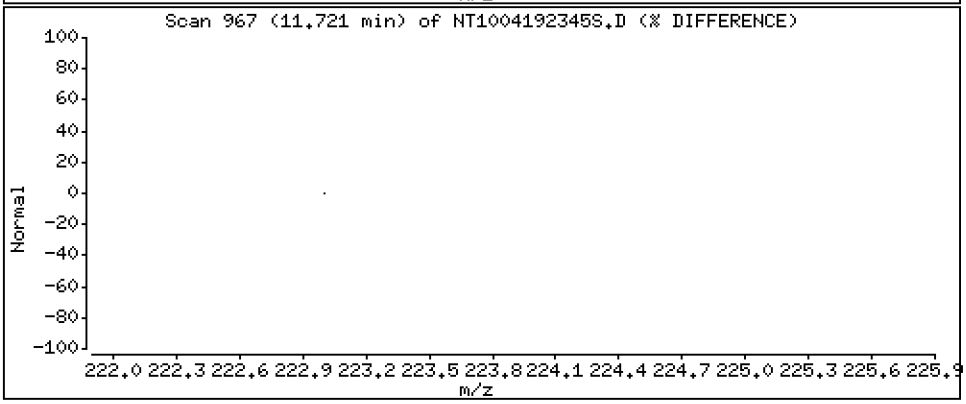












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS2

Volume Injected (uL): 1.0

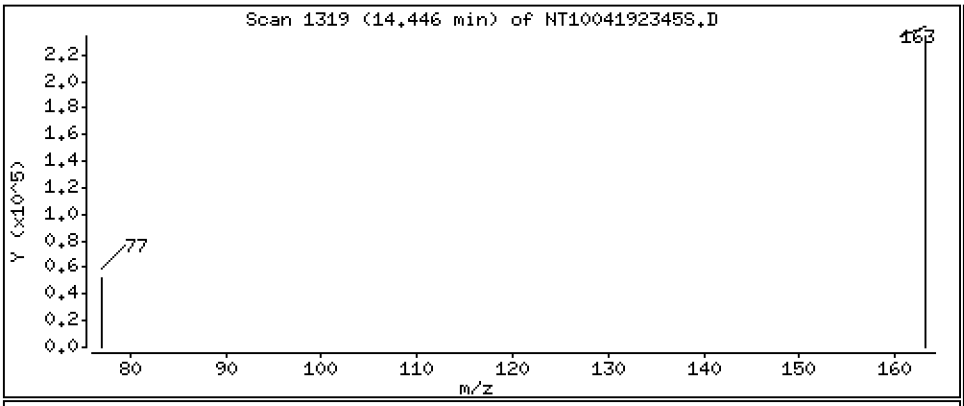
Operator: DSD

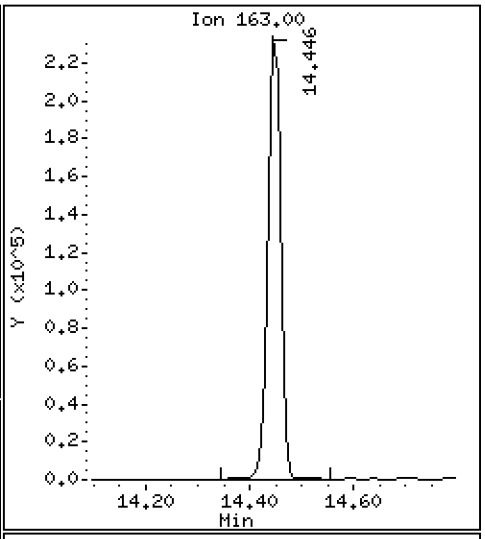
Column phase: ZB-5msi

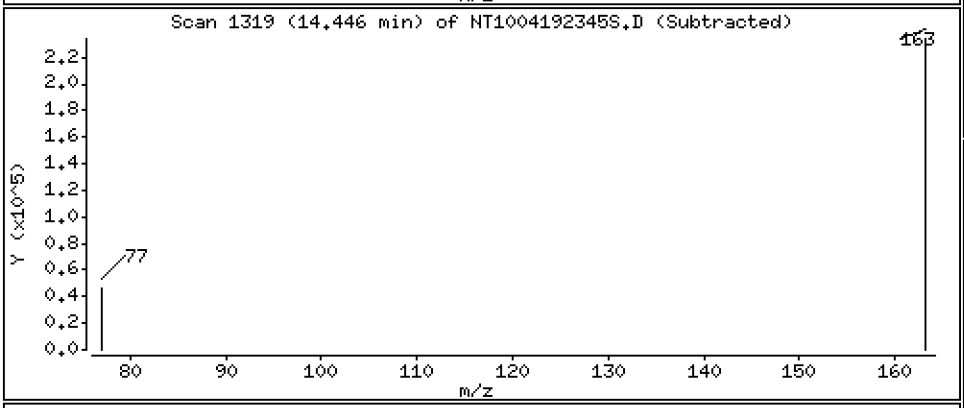
Column diameter: 0.25

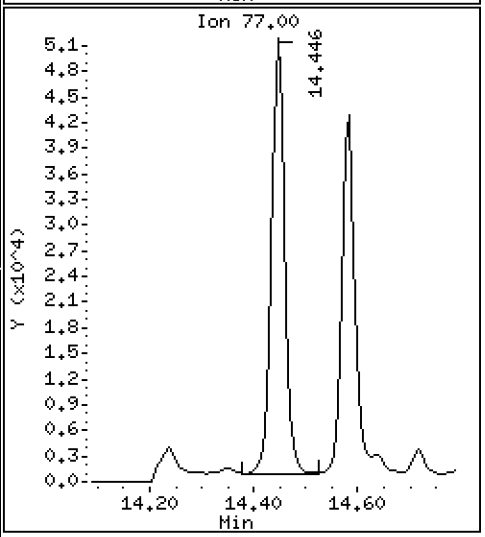
39 Dimethylphthalate

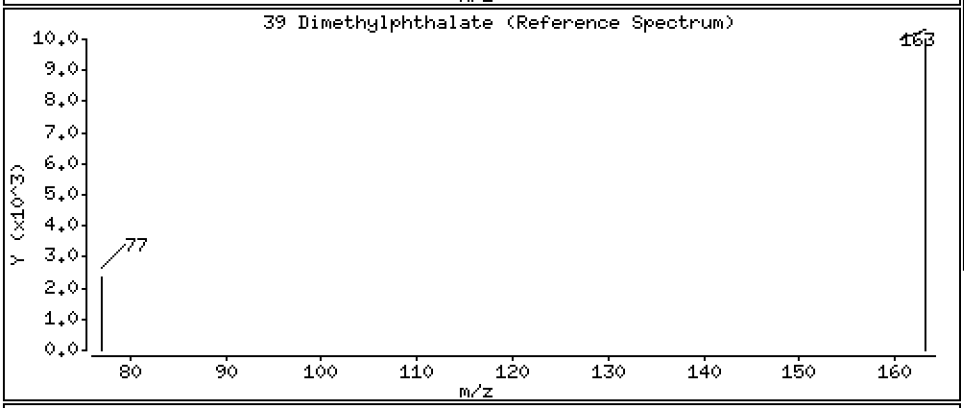
Concentration: 3.748 ug/L

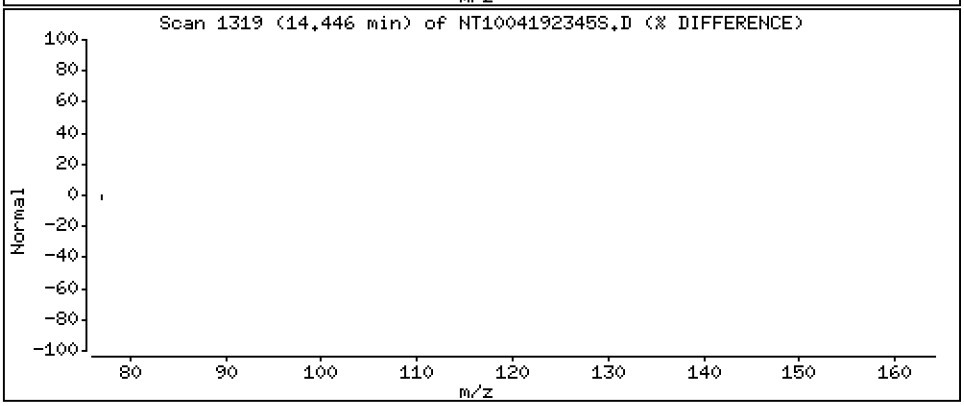












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS2

Volume Injected (uL): 1.0

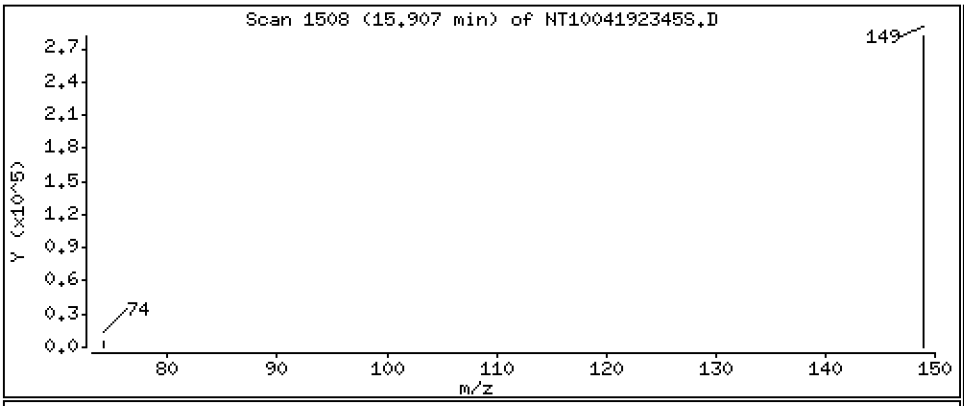
Operator: DSD

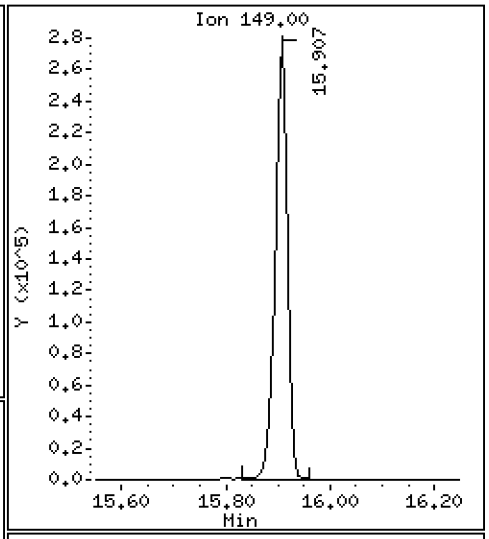
Column phase: ZB-5msi

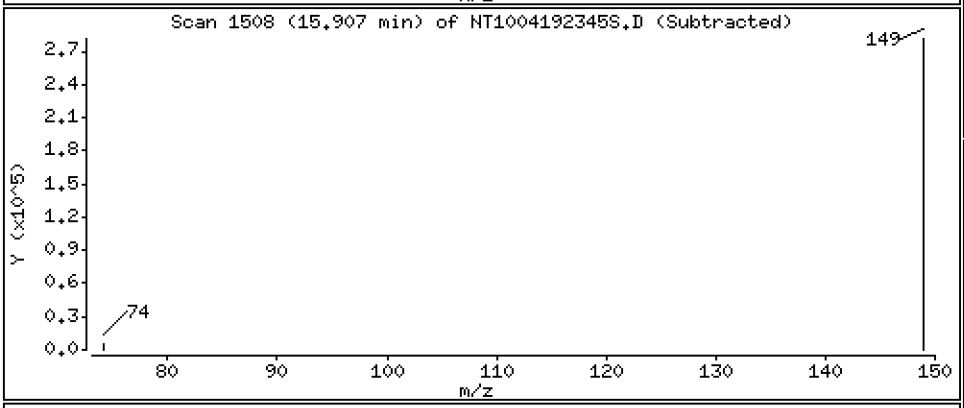
Column diameter: 0.25

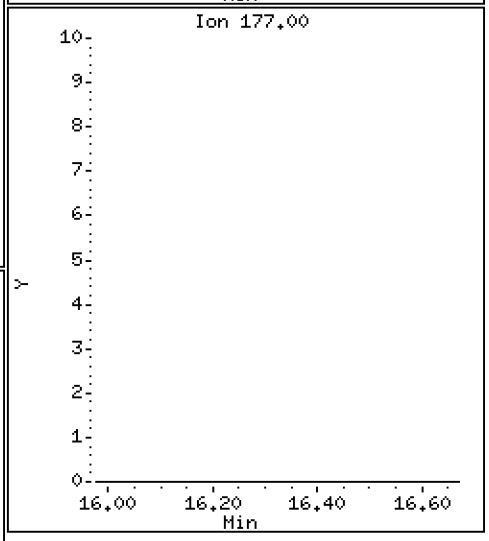
50 Diethylphthalate

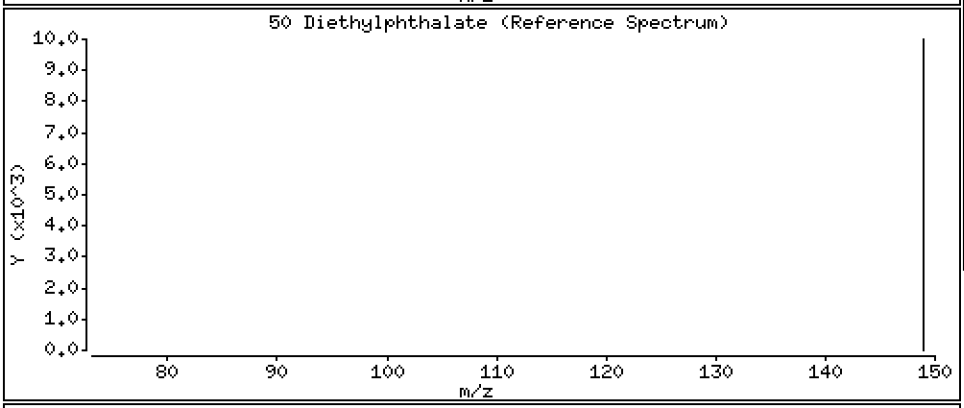
Concentration: 4.418 ug/L

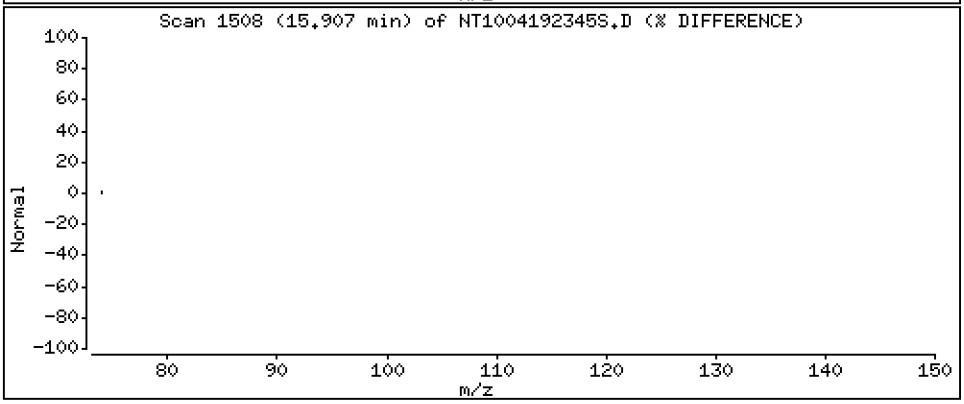












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS2

Volume Injected (uL): 1.0

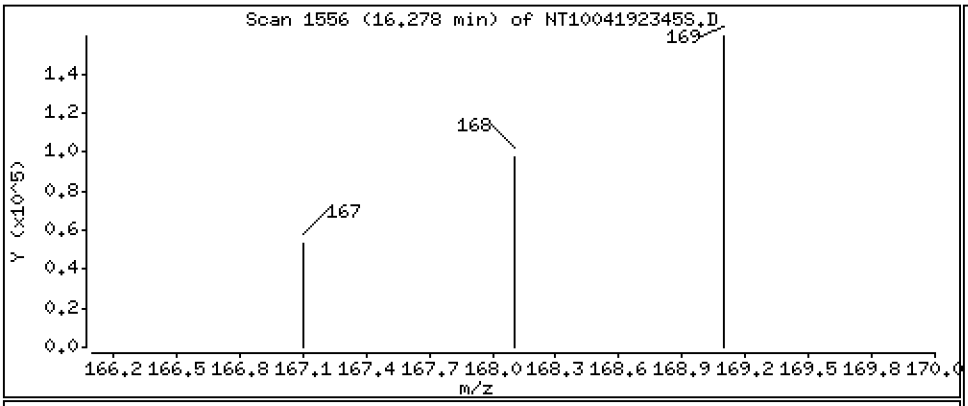
Operator: DSD

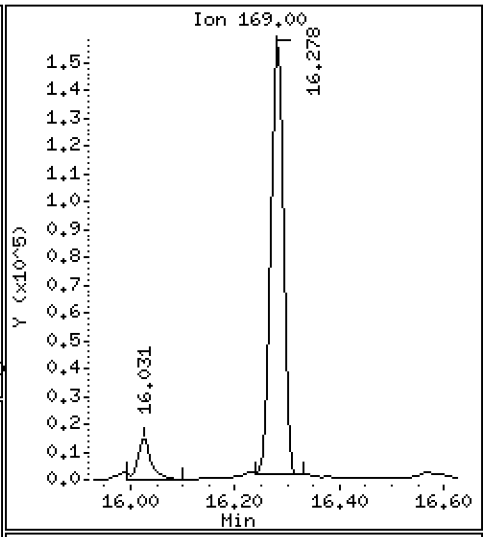
Column phase: ZB-5msi

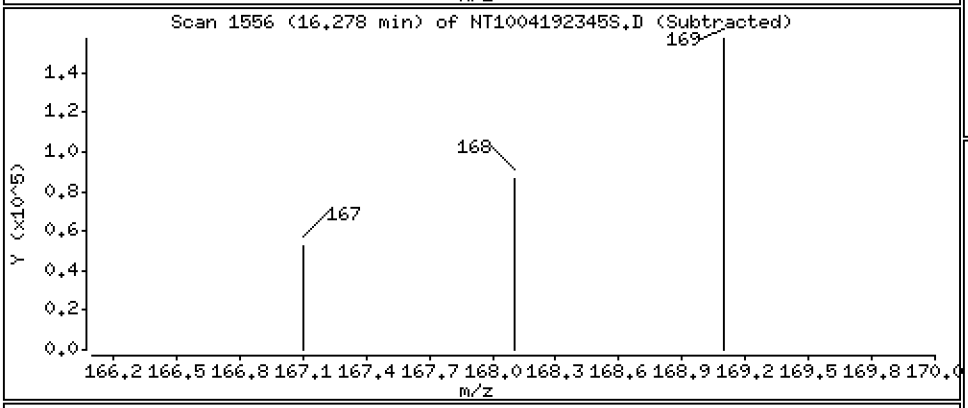
Column diameter: 0.25

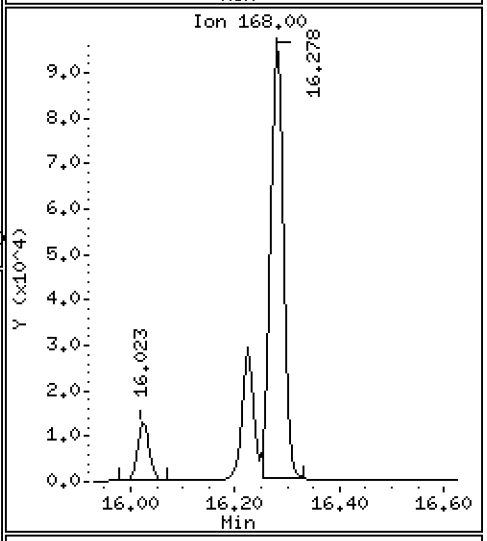
54 N-Nitrosodiphenylamine

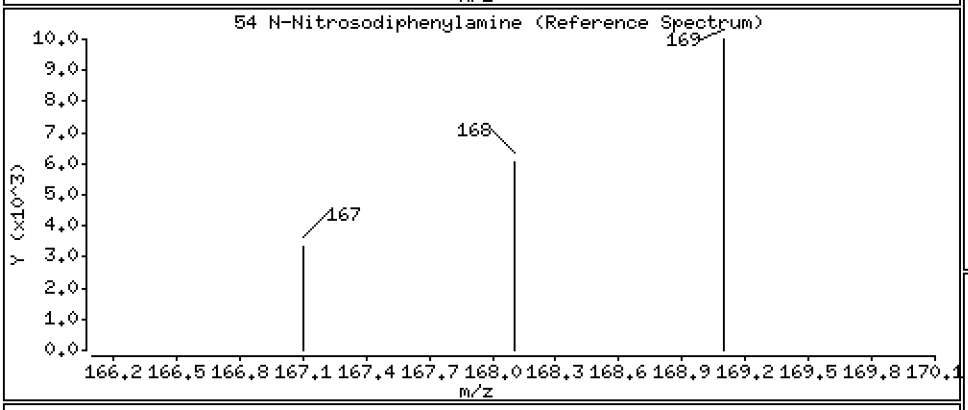
Concentration: 2.997 ug/L

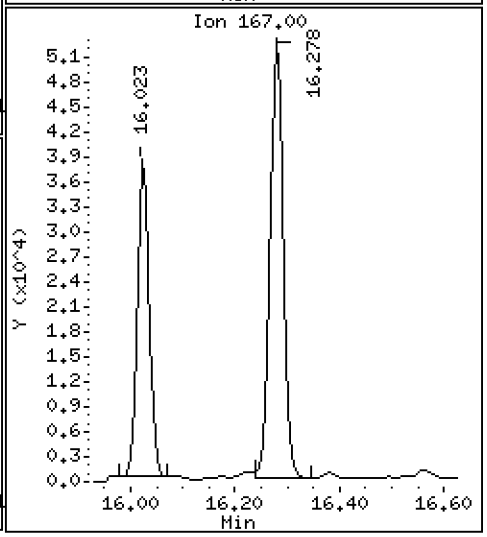


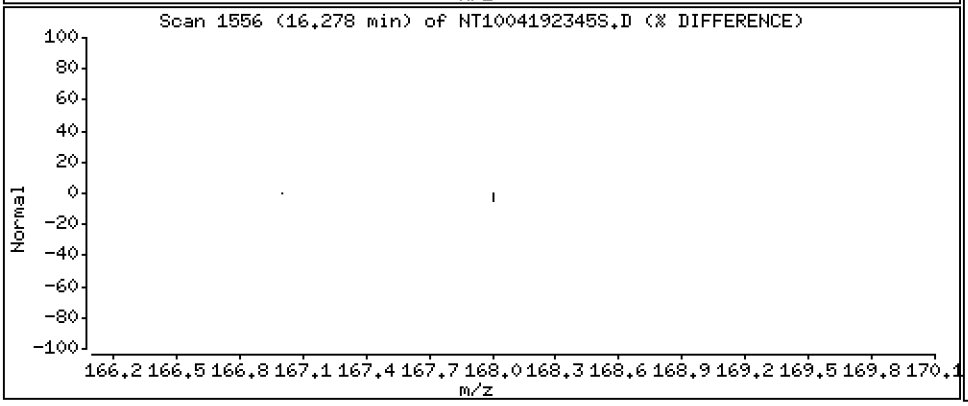












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS2

Volume Injected (uL): 1.0

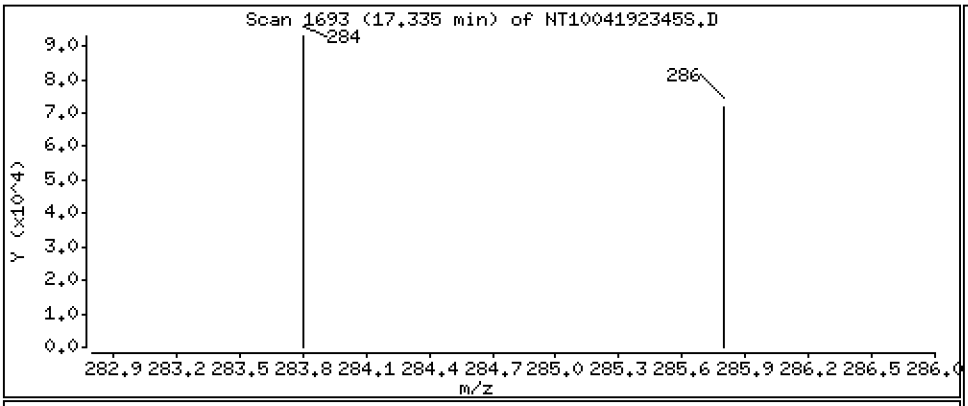
Operator: DSD

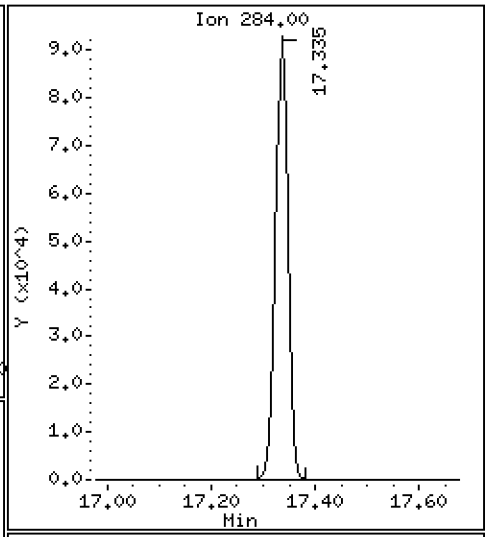
Column phase: ZB-5msi

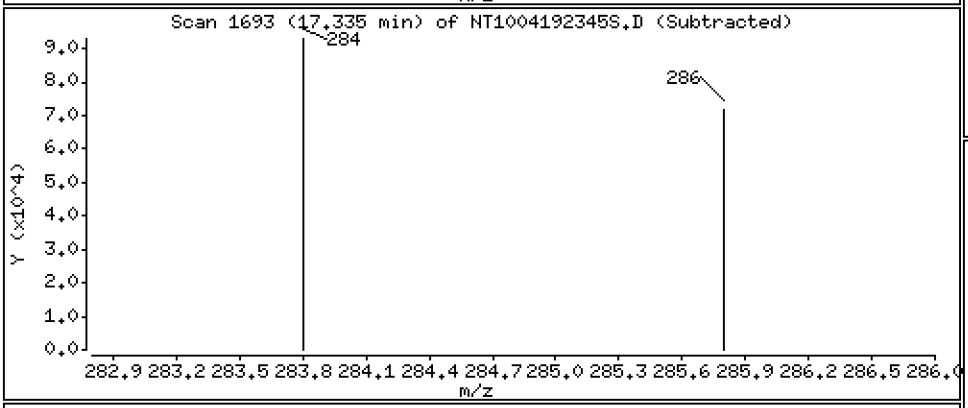
Column diameter: 0.25

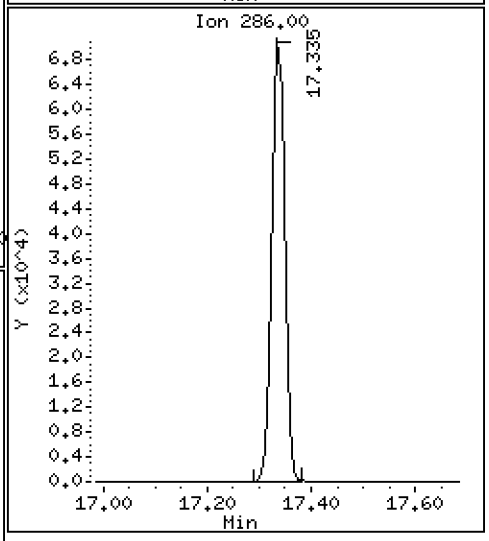
57 Hexachlorobenzene

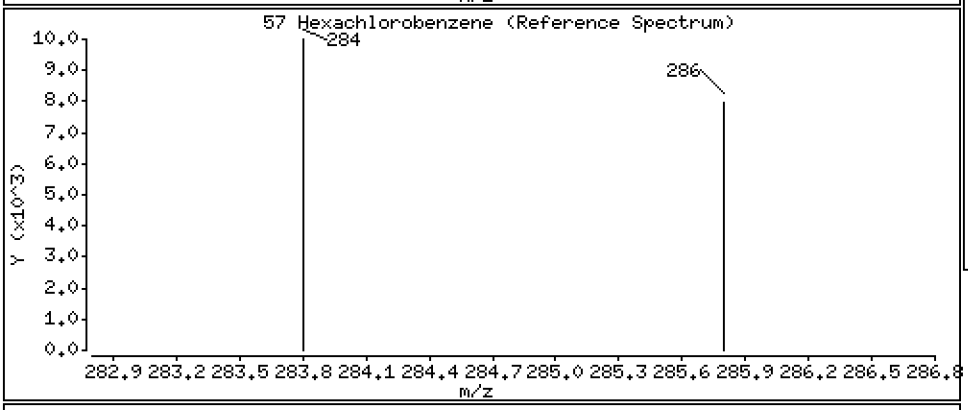
Concentration: 3.911 ug/L

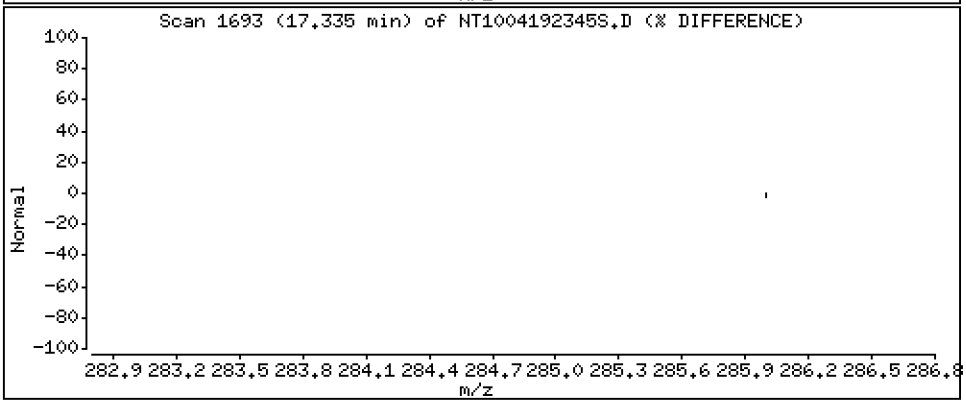












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS2

Volume Injected (uL): 1.0

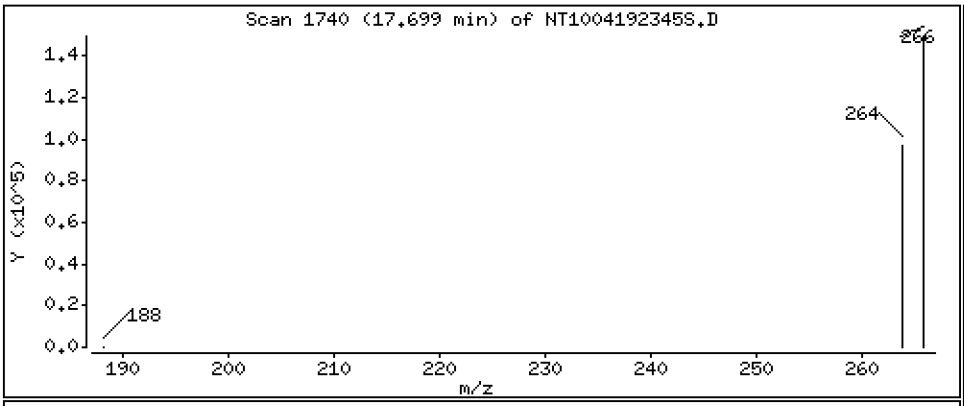
Operator: DSD

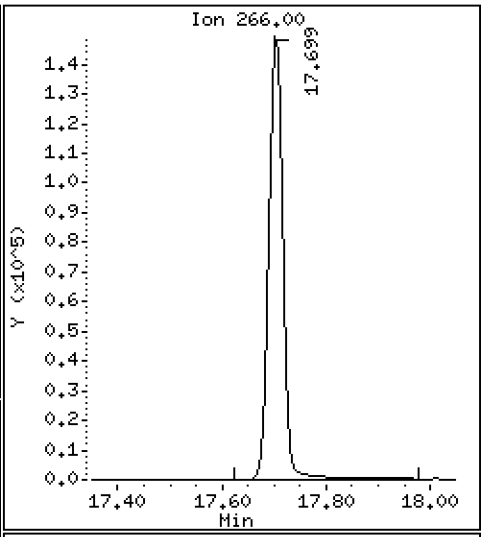
Column phase: ZB-5msi

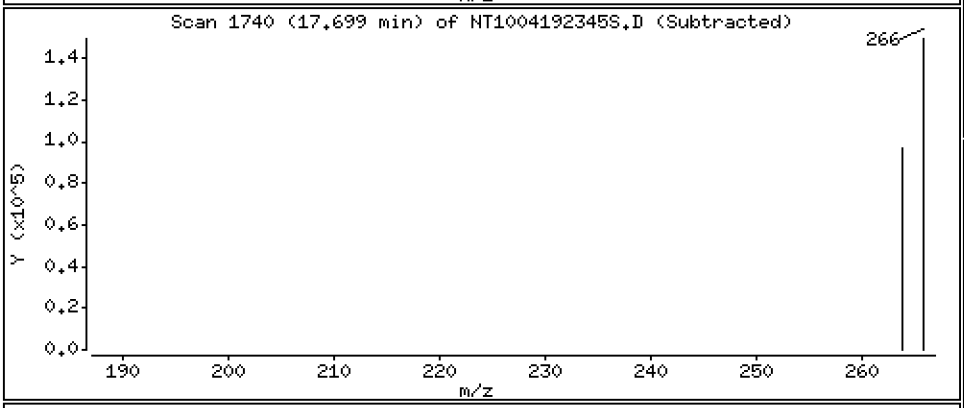
Column diameter: 0.25

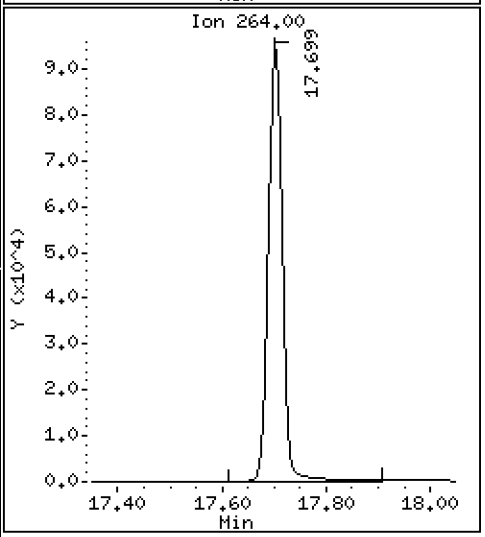
58 Pentachlorophenol

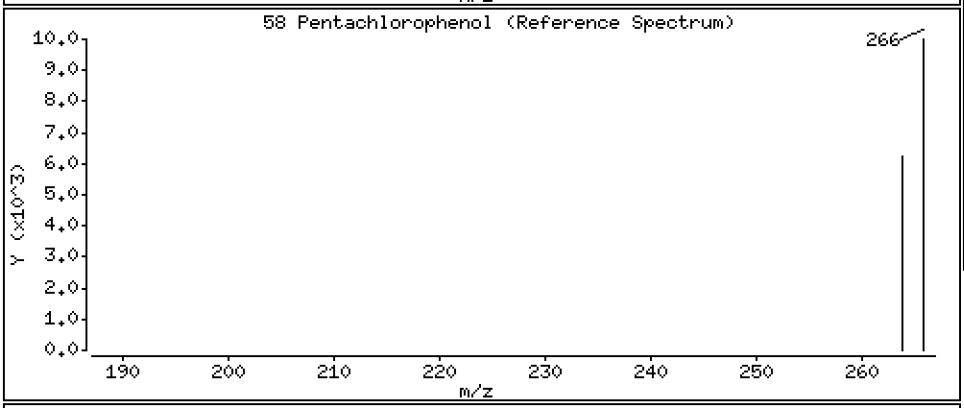
Concentration: 12.26 ug/L

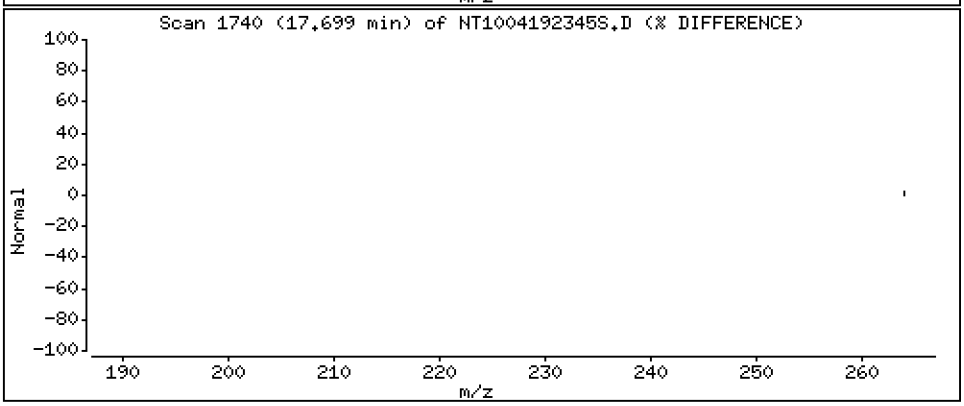












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Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS2

Volume Injected (uL): 1.0

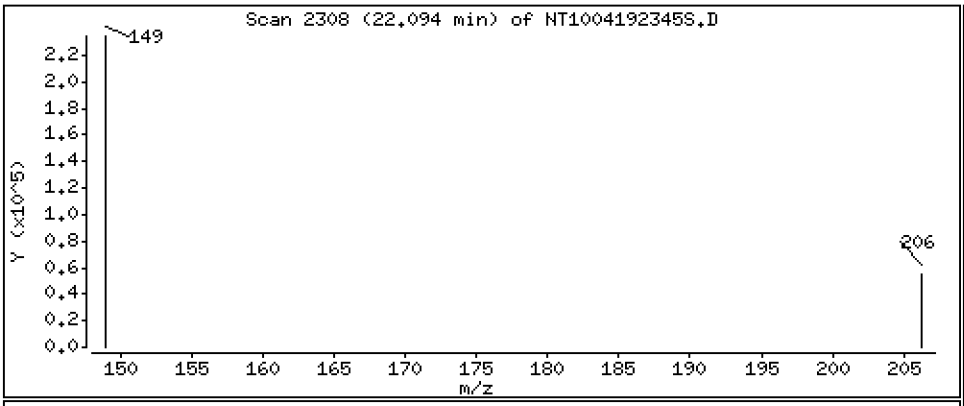
Operator: DSD

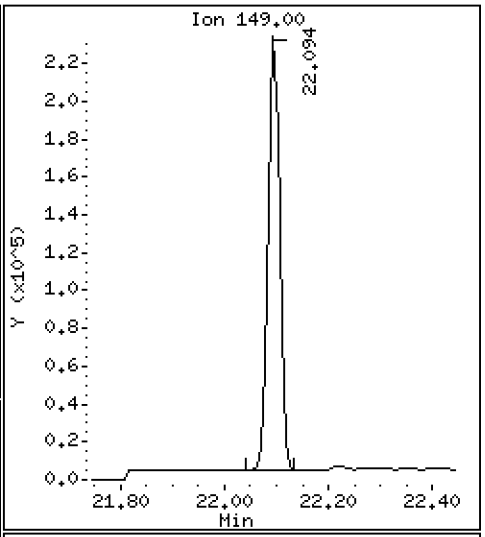
Column phase: ZB-5msi

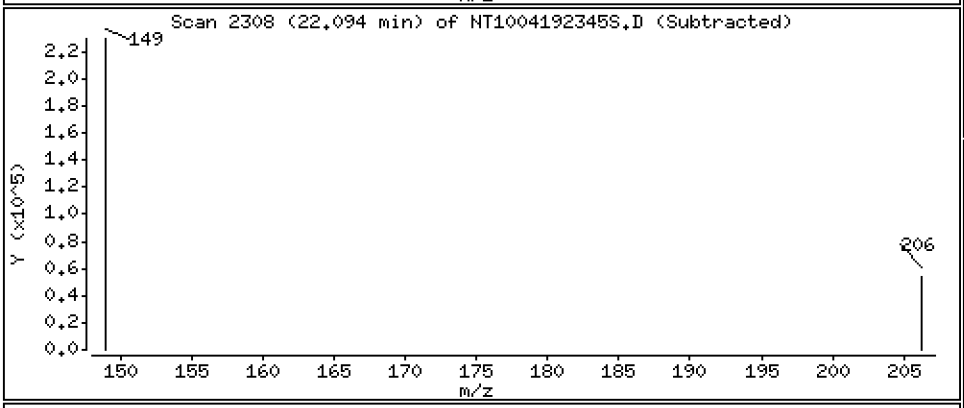
Column diameter: 0.25

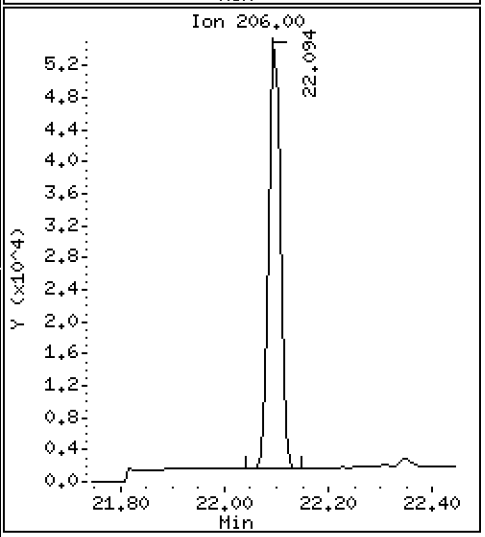
67 Butylbenzylphthalate

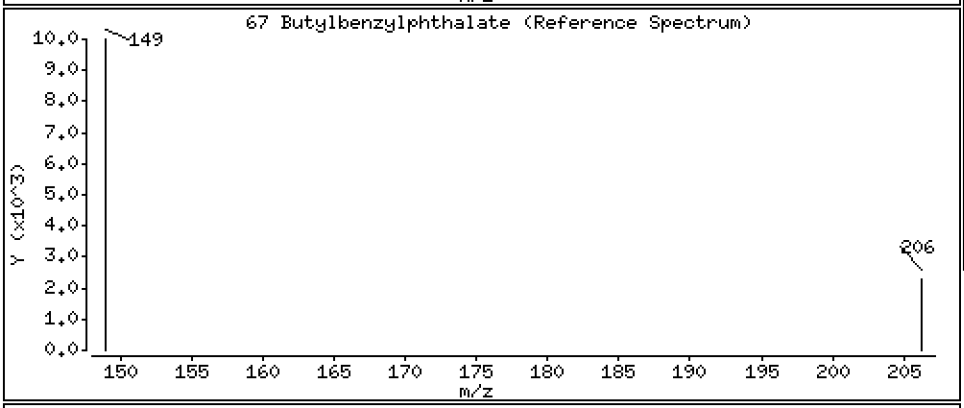
Concentration: 3.812 ug/L

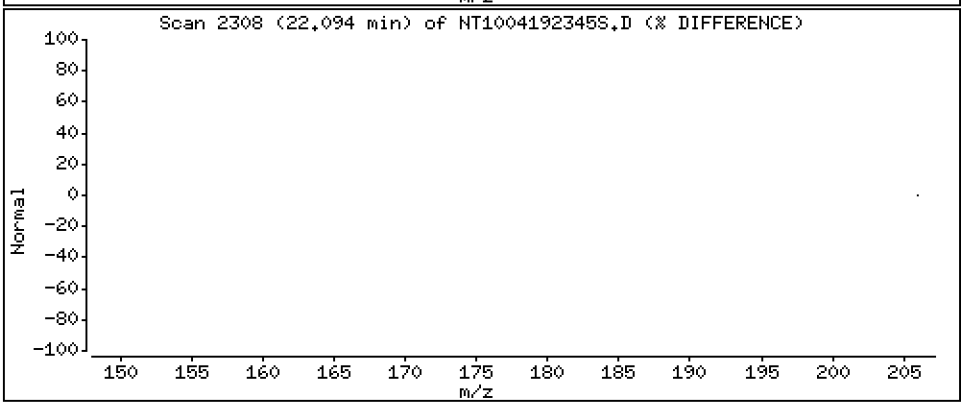












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192345S.D

Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS2

Volume Injected (uL): 1.0

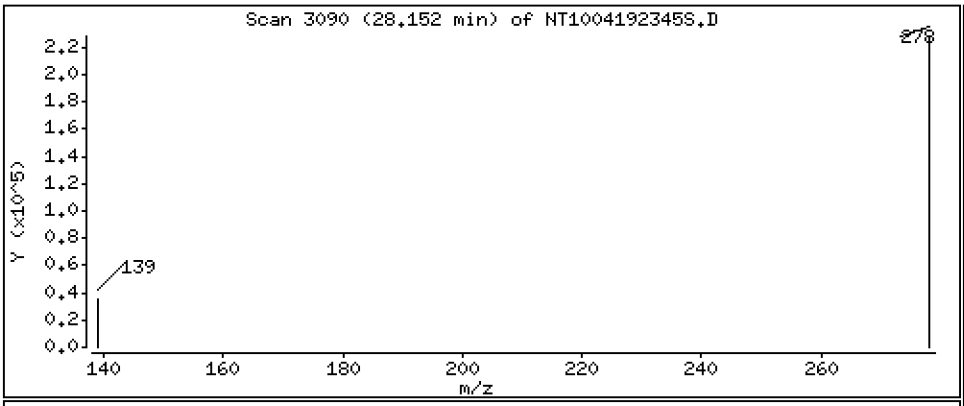
Operator: DSD

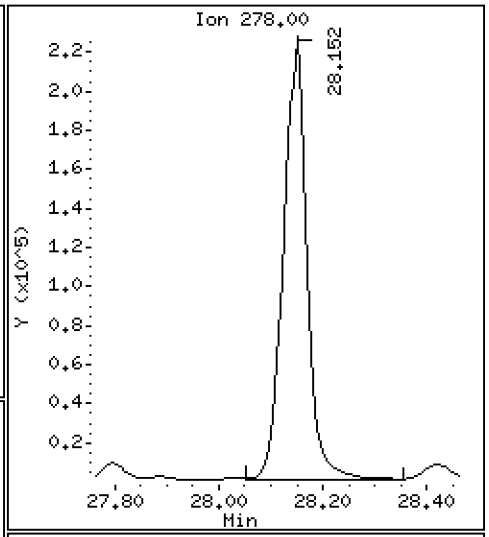
Column phase: ZB-5msi

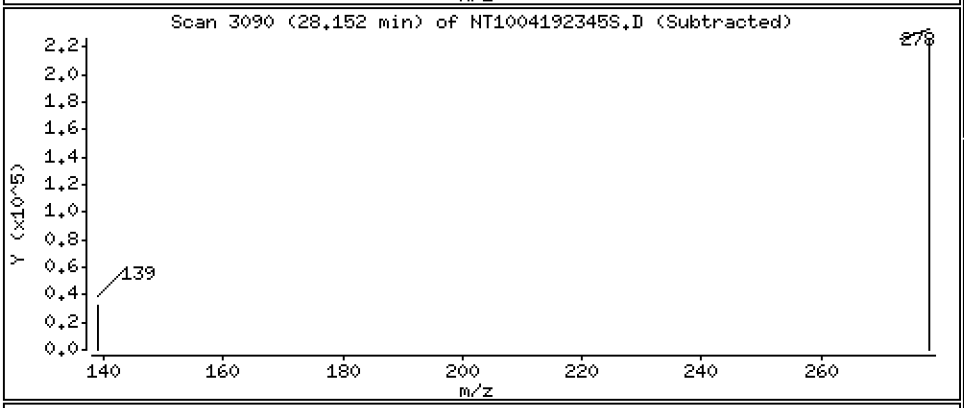
Column diameter: 0.25

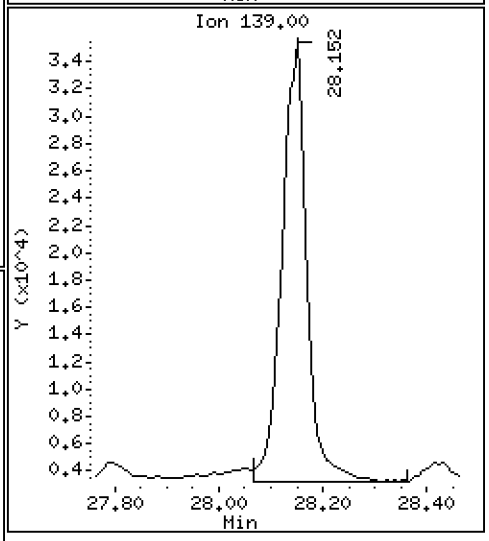
79 Dibenzo(a,h)anthracene

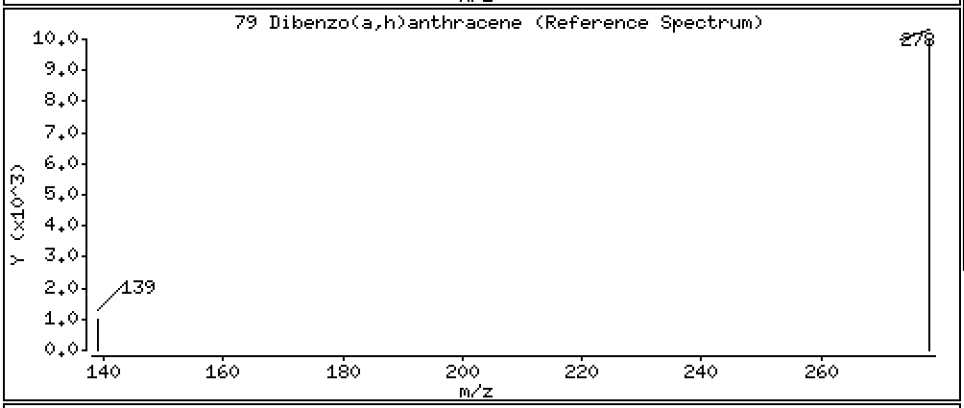
Concentration: 2.998 ug/L

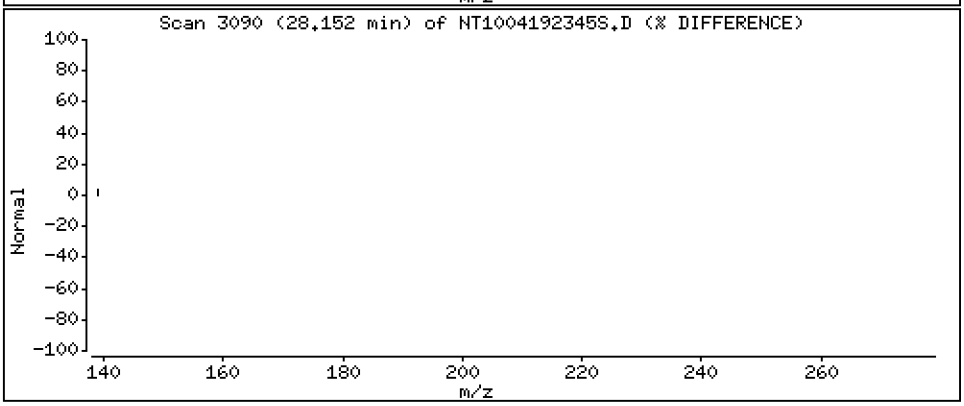












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192345S.D

Date : 20-APR-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MS2

Volume Injected (uL): 1.0

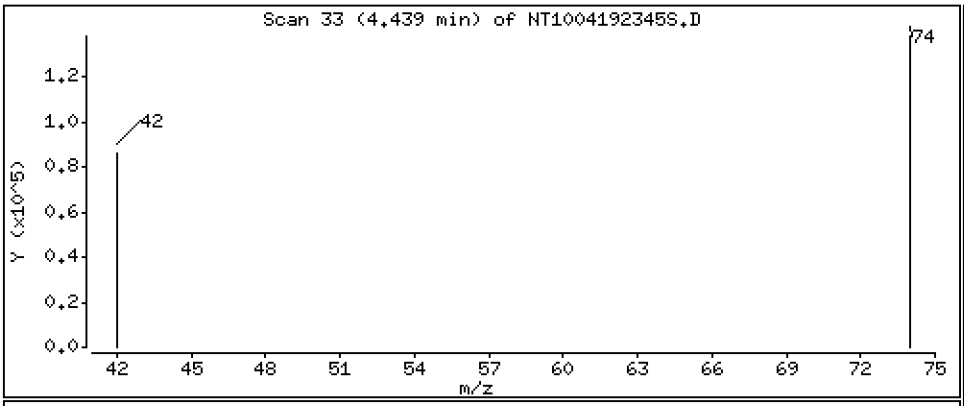
Operator: DSD

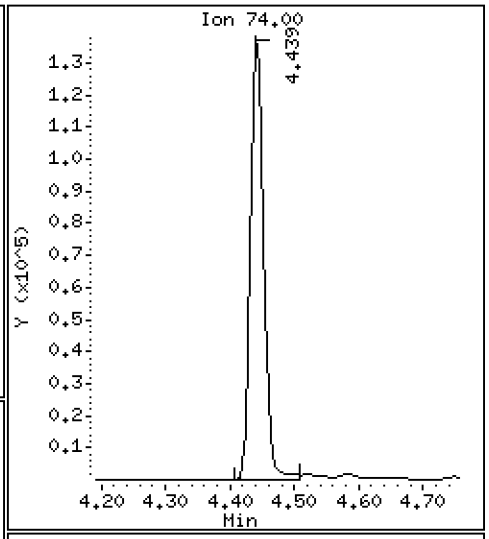
Column phase: ZB-5msi

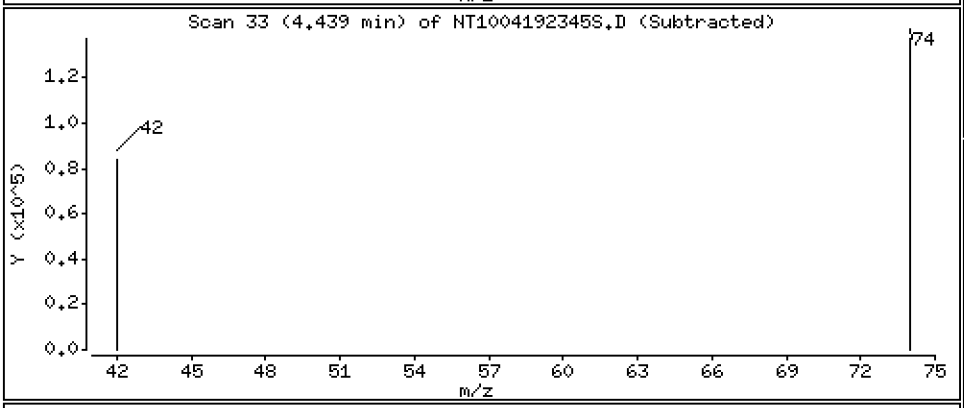
Column diameter: 0.25

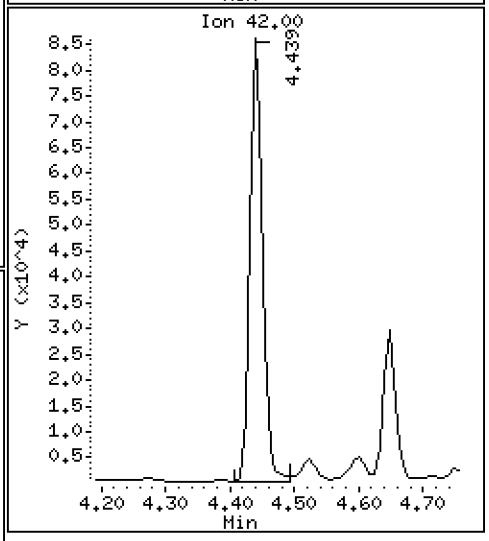
90 N-Nitrosodimethylamine

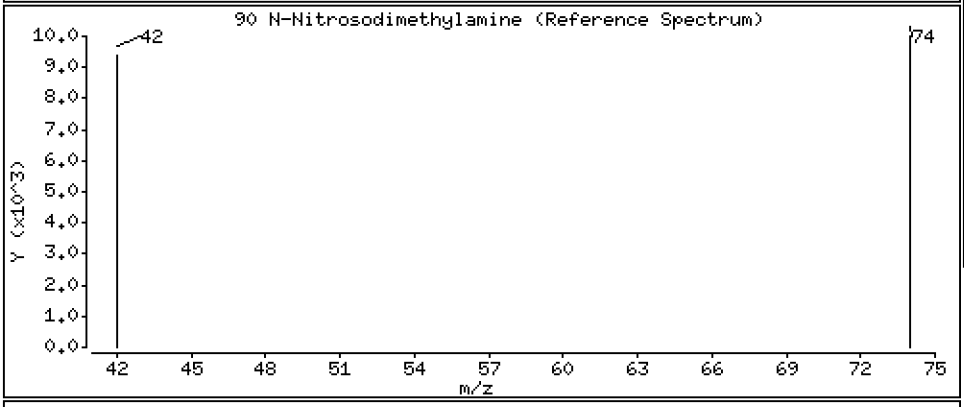
Concentration: 6.327 ug/L

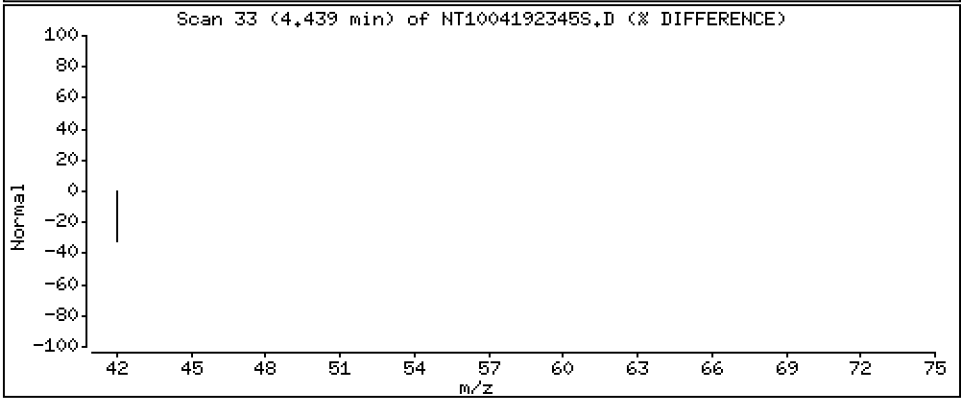












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192345S.D
Lab Smp Id: BLD0008-MS2
Inj Date : 20-APR-2023 15:18 MS Autotune Date: 16-JAN-2023 17:42
Operator : DSD Inst ID: nt10.i
Smp Info : BLD0008-MS2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\SIMABN2.m
Meth Date : 21-Apr-2023 13:41 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.632	6.617	(0.751)	236164	4.72127	4.721(R)
3	Phenol	94	8.247	8.240	(0.933)	207445	3.02283	3.023
7	1,3-Dichlorobenzene	146	8.765	8.766	(0.992)	192696	3.00076	3.001
* 8	1,4-Dichlorobenzene-d4	152	8.835	8.835	(1.000)	164953	4.00000	
9	1,4-Dichlorobenzene	146	8.866	8.859	(1.004)	194826	3.14290	3.143
11	Benzyl alcohol	79	9.114	9.115	(1.032)	147210	3.70013	3.700
12	1,2-Dichlorobenzene	146	9.215	9.216	(1.043)	188983	3.09996	3.100
13	2-Methylphenol	108	9.355	9.348	(1.059)	129990	2.73365	2.734
15	4-Methylphenol	108	9.634	9.627	(1.090)	153350	3.10351	3.104
16	N-Nitroso-di-n-propylamine	70	9.673	9.674	(1.095)	107759	3.08374	3.084
22	2,4-Dimethylphenol	107	10.664	10.656	(0.943)	142145	2.71497	2.715
24	Benzoic acid	105	10.851	10.809	(0.959)	282885	9.50573	9.506
26	1,2,4-Trichlorobenzene	180	11.227	11.227	(0.992)	172212	3.26972	3.270
* 27	Naphthalene-d8	136	11.311	11.312	(1.000)	605710	4.00000	
30	Hexachlorobutadiene	225	11.721	11.721	(1.036)	114696	3.58186	3.582
39	Dimethylphthalate	163	14.445	14.446	(0.968)	376741	3.74800	3.748
* 42	Acenaphthene-d10	162	14.925	14.918	(1.000)	318528	4.00000	
50	Diethylphthalate	149	15.907	15.900	(1.066)	460072	4.41815	4.418
54	N-Nitrosodiphenylamine	169	16.277	16.278	(0.907)	249214	2.99675	2.997
57	Hexachlorobenzene	284	17.335	17.327	(0.966)	145601	3.91108	3.911

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.699	17.699	(0.986)	272505	12.2622	12.26
*	59 Phenanthrene-d10	188	17.954	17.947	(1.000)	619830	4.00000	
$	66 Terphenyl-d14	244	21.142	21.142	(0.917)	352764	3.40306	3.403(R)
	67 Butylbenzylphthalate	149	22.094	22.094	(0.958)	333070	3.81189	3.812
*	69 Chrysene-d12	240	23.054	23.047	(1.000)	636207	4.00000	
*	77 Perylene-d12	264	25.609	25.594	(1.000)	737823	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.151	28.113	(1.099)	713488	2.99751	2.998
	90 N-Nitrosodimethylamine	74	4.439	4.408	(0.502)	200715	6.32666	6.327

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192345S.D
Lab Smp Id: BLD0008-MS2
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\SIMABN2.m
Misc Info:

Calibration Date: 20-APR-2023
Calibration Time: 08:57
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	128281	64141	256562	164953	28.59
27 Naphthalene-d8	458707	229354	917414	605710	32.05
42 Acenaphthene-d10	243296	121648	486592	318528	30.92
59 Phenanthrene-d10	433853	216927	867706	619830	42.87
69 Chrysene-d12	435413	217707	870826	636207	46.12
77 Perylene-d12	490854	245427	981708	737823	50.31

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.84	8.34	9.34	8.84	-0.00
27 Naphthalene-d8	11.31	10.81	11.81	11.31	-0.00
42 Acenaphthene-d10	14.92	14.42	15.42	14.93	0.05
59 Phenanthrene-d10	17.95	17.45	18.45	17.95	0.04
69 Chrysene-d12	23.05	22.55	23.55	23.05	0.03
77 Perylene-d12	25.59	25.09	26.09	25.61	0.06

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

REVIEW SUMMARY FOR FILE - NT1004192345S.D

Lab ID: BLD0008-MS2
nt10.i, 20230419B.b\20230419B.b\SIMABN2.m,   20-APR-2023 15:18

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230419B.b/NT1004192335S.D

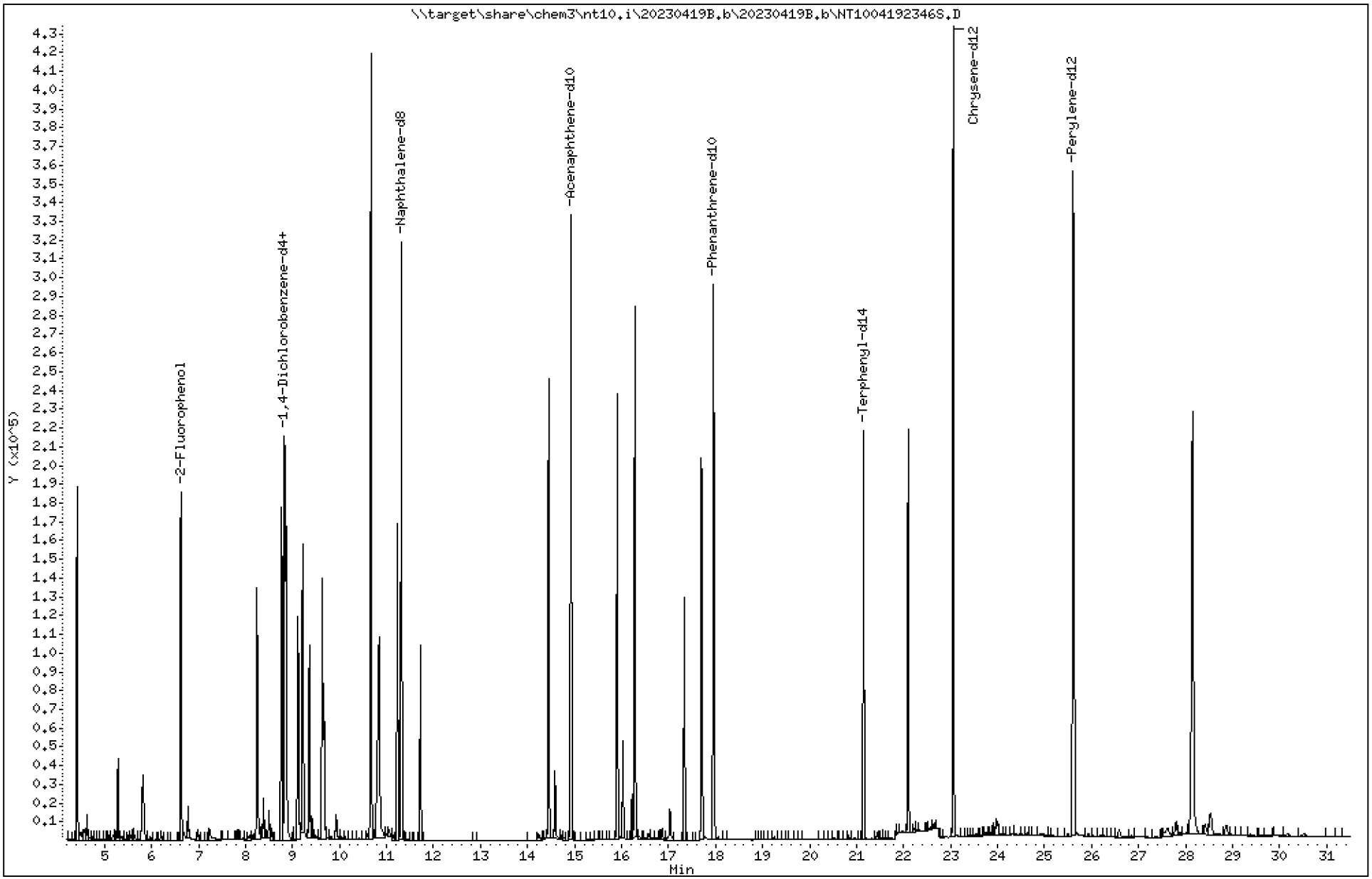
On Column LOD for nt10.i, 20230419B.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT10041923465.D
Date : 20-APR-2023 15:56
Client ID:
Sample Info: BLD0008-MSD2
Volume Injected (uL): 1.0
Column phase: ZB-5msi

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



Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192346S.D

Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD2

Volume Injected (uL): 1.0

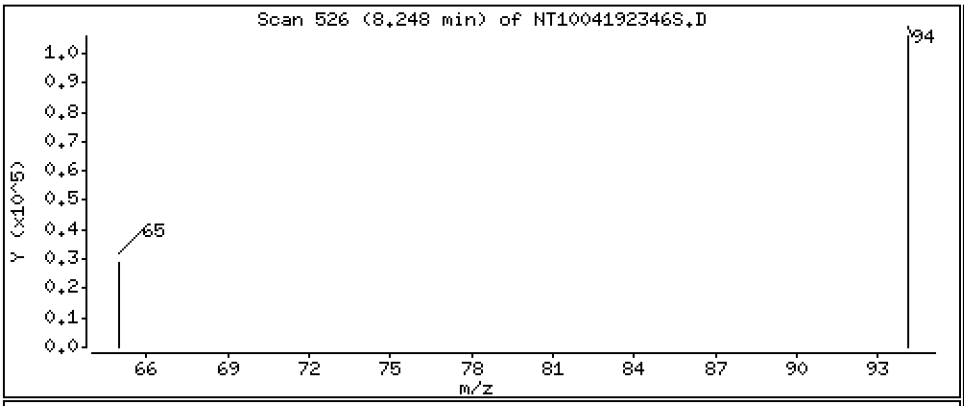
Operator: DSD

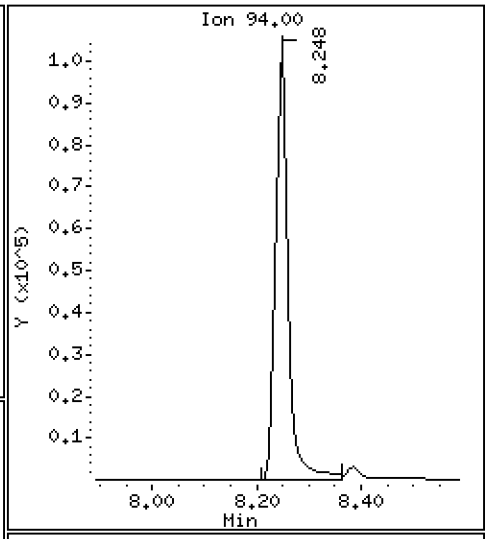
Column phase: ZB-5msi

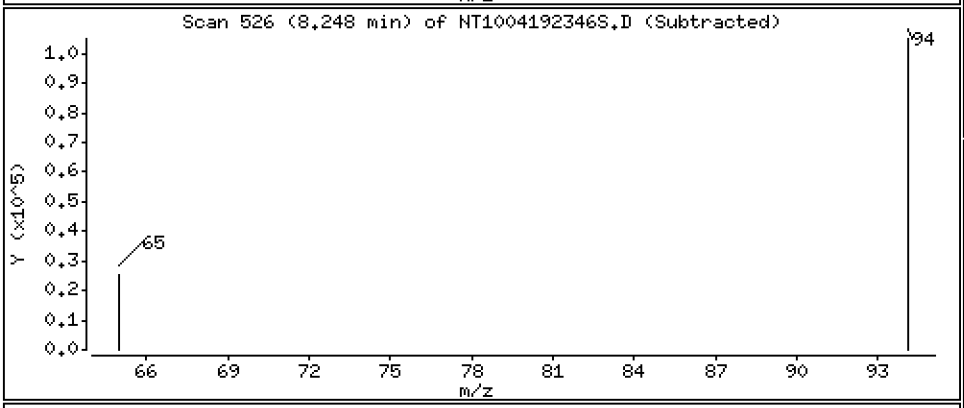
Column diameter: 0.25

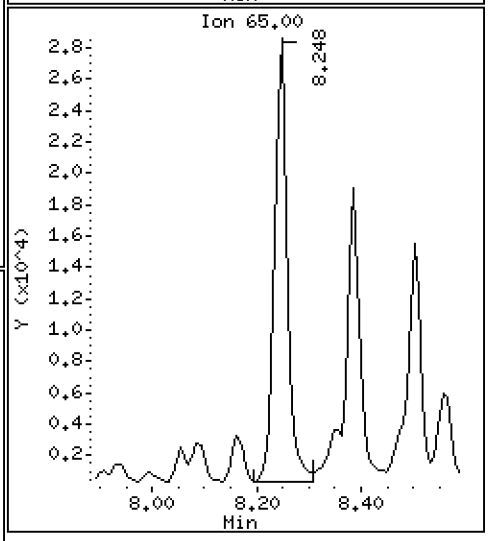
3 Phenol

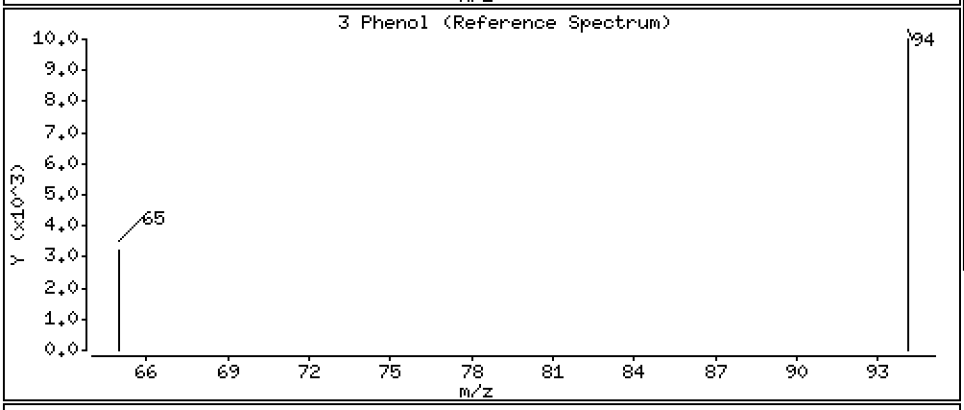
Concentration: 2.923 ug/L

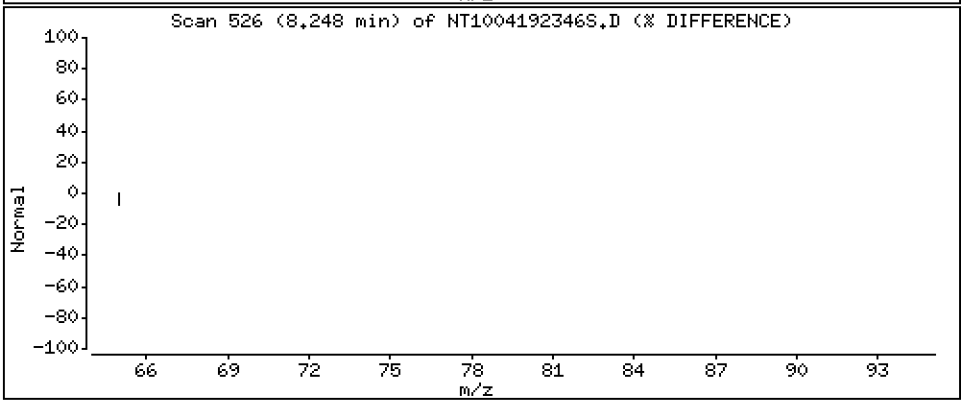












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192346S.D

Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD2

Volume Injected (uL): 1.0

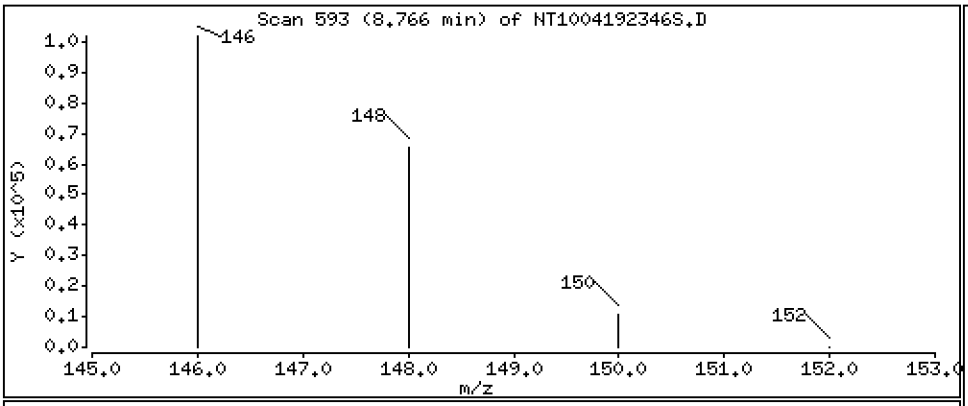
Operator: DSD

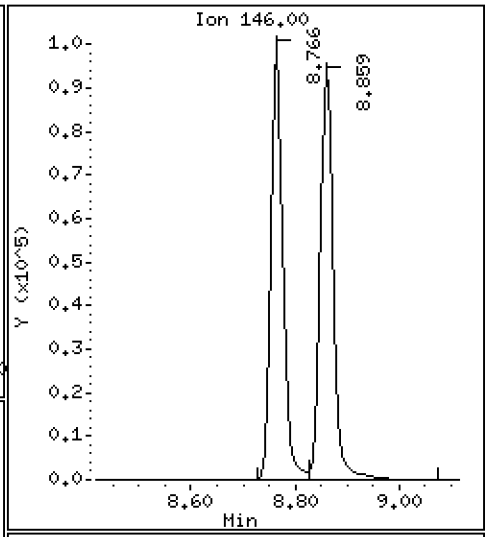
Column phase: ZB-5msi

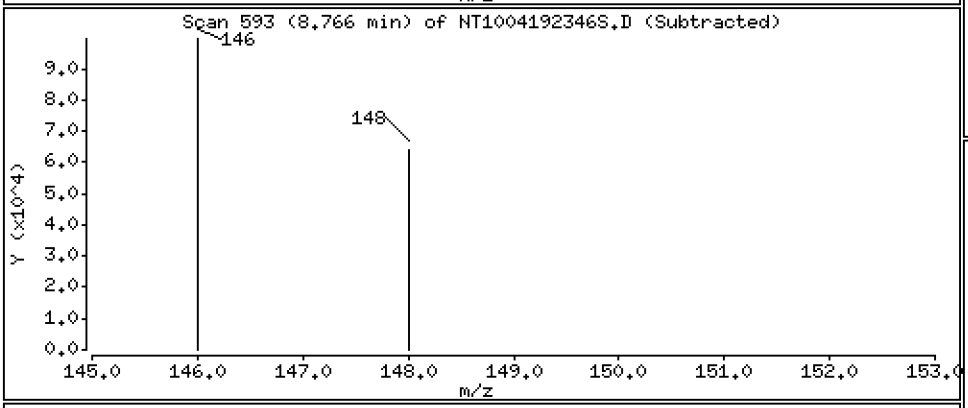
Column diameter: 0.25

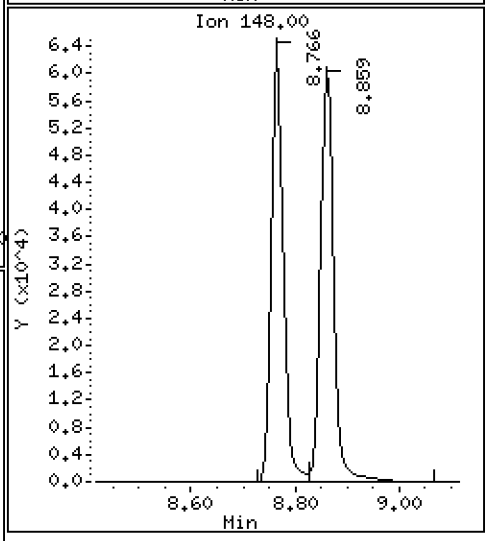
7 1,3-Dichlorobenzene

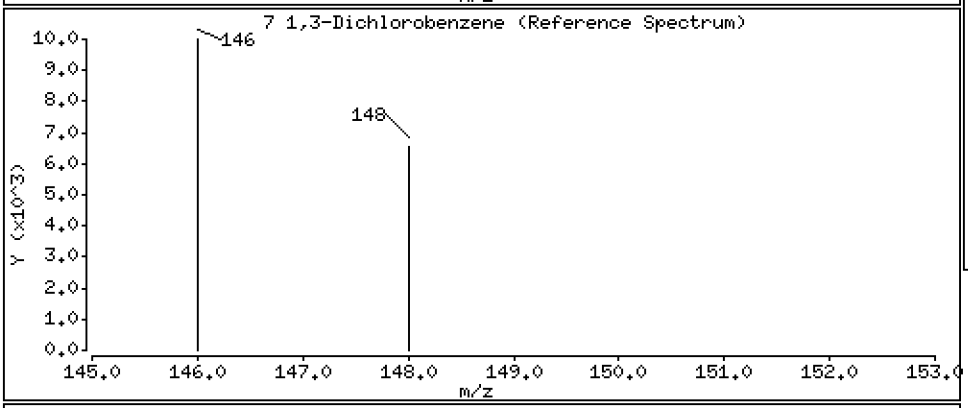
Concentration: 2.913 ug/L

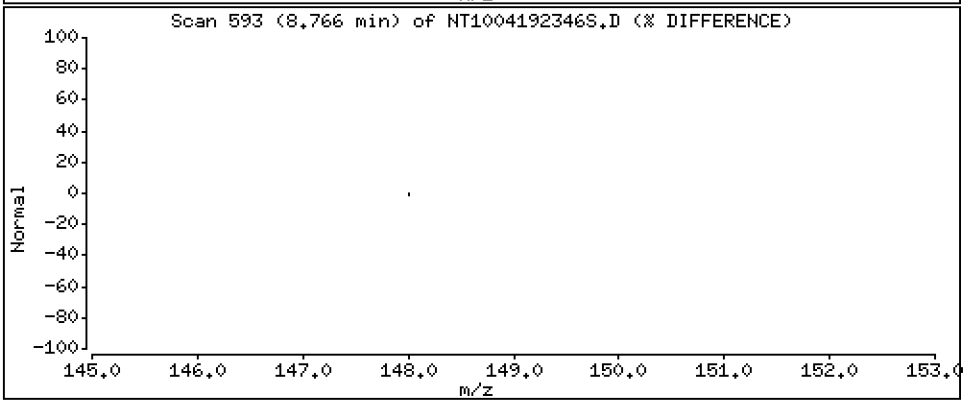












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192346S.D

Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD2

Volume Injected (uL): 1.0

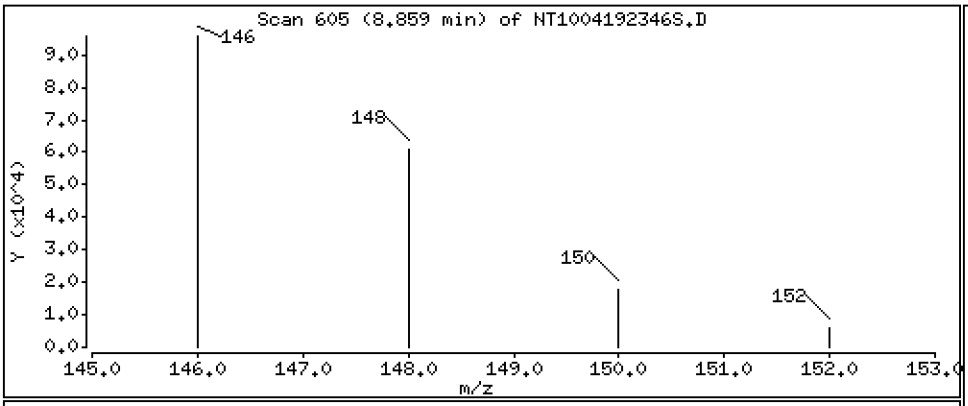
Operator: DSD

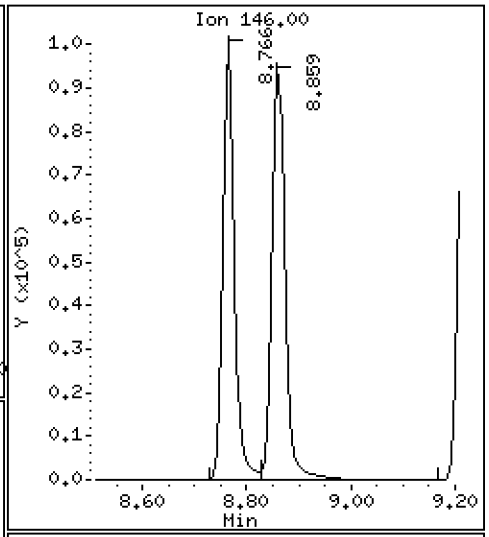
Column phase: ZB-5msi

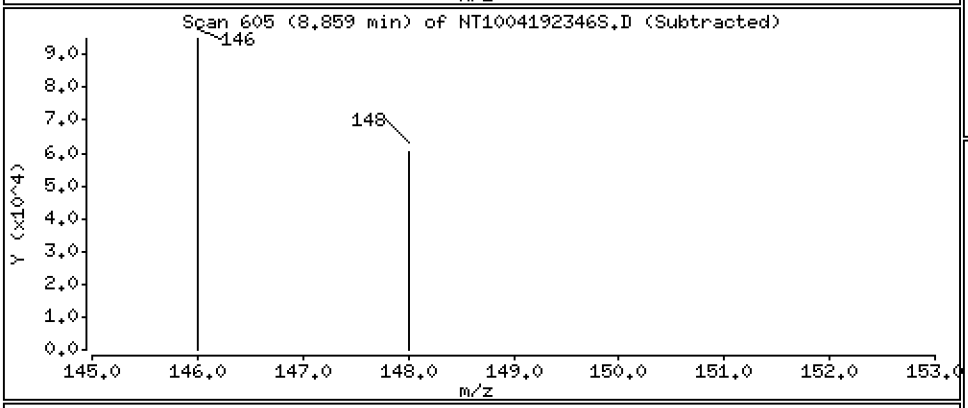
Column diameter: 0.25

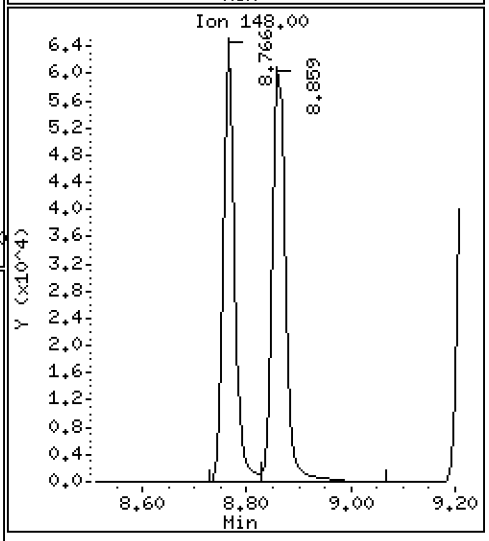
9 1,4-Dichlorobenzene

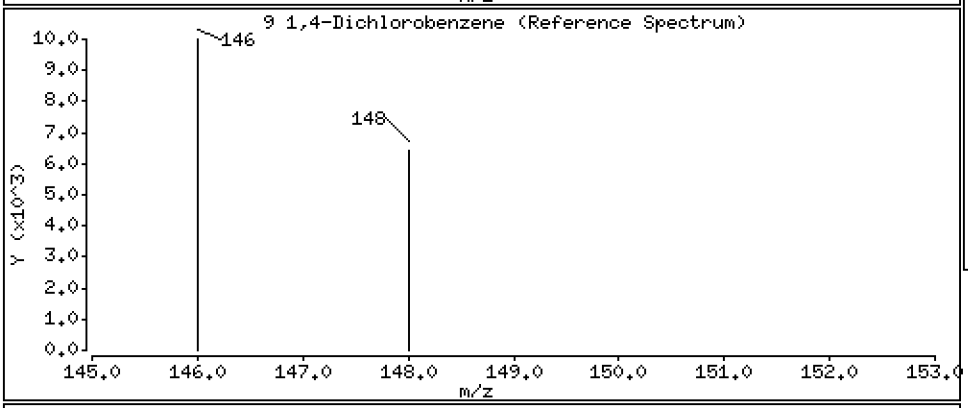
Concentration: 3.028 ug/L

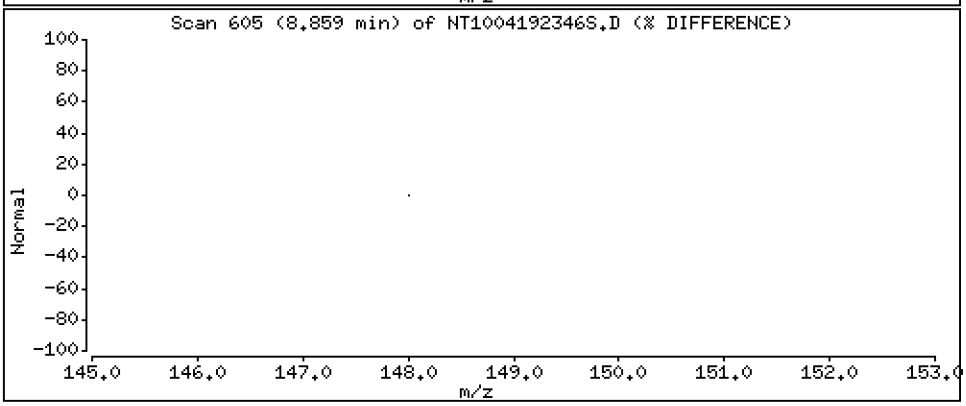












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192346S.D

Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD2

Volume Injected (uL): 1.0

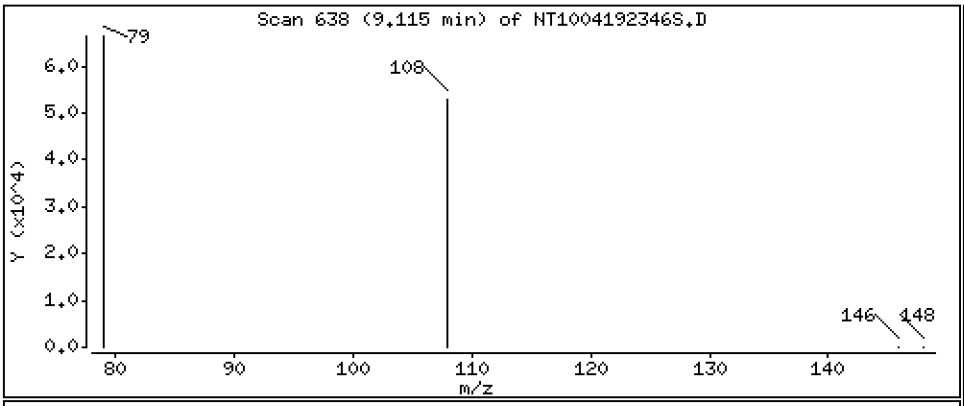
Operator: DSD

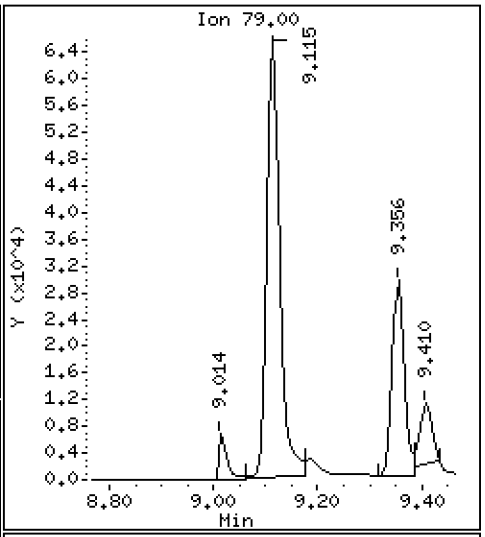
Column phase: ZB-5msi

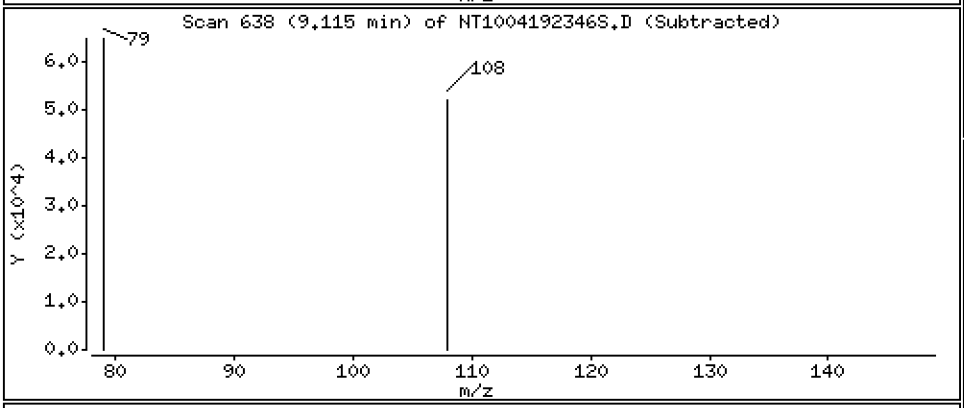
Column diameter: 0.25

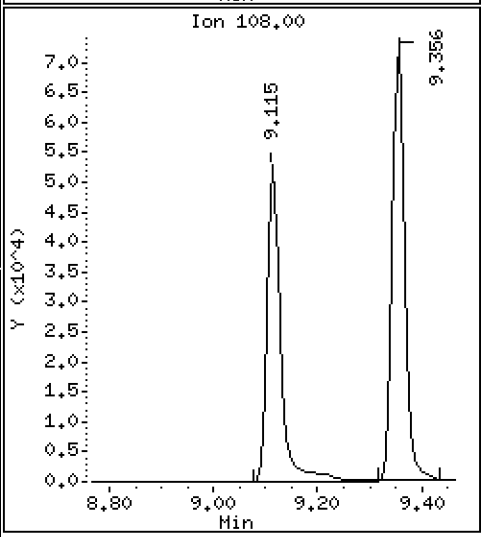
11 Benzyl alcohol

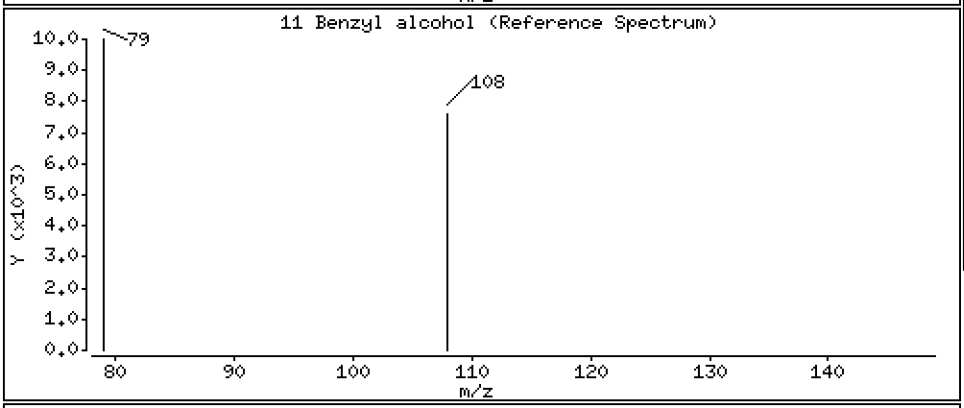
Concentration: 3.306 ug/L

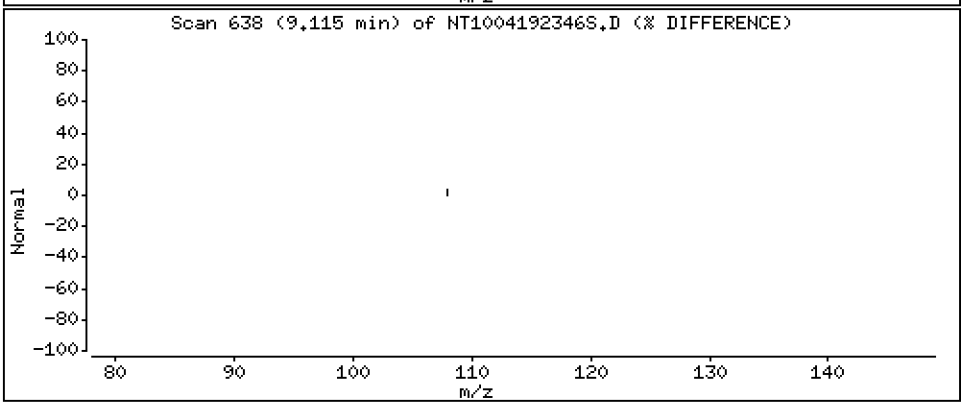












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192346S.D

Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD2

Volume Injected (uL): 1.0

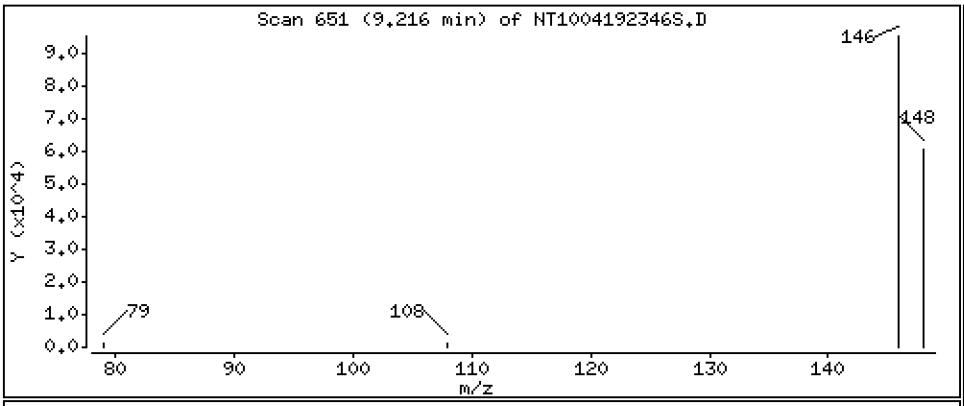
Operator: DSD

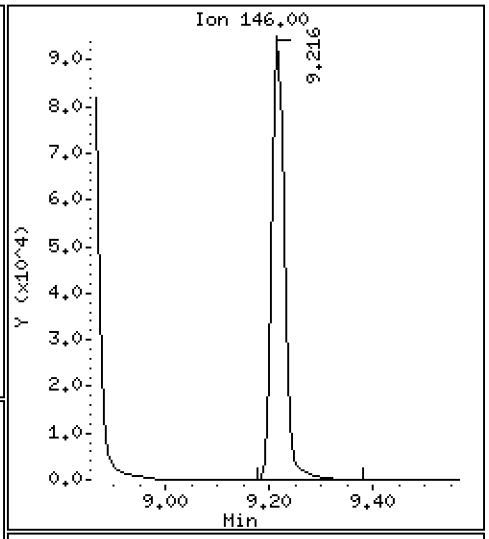
Column phase: ZB-5msi

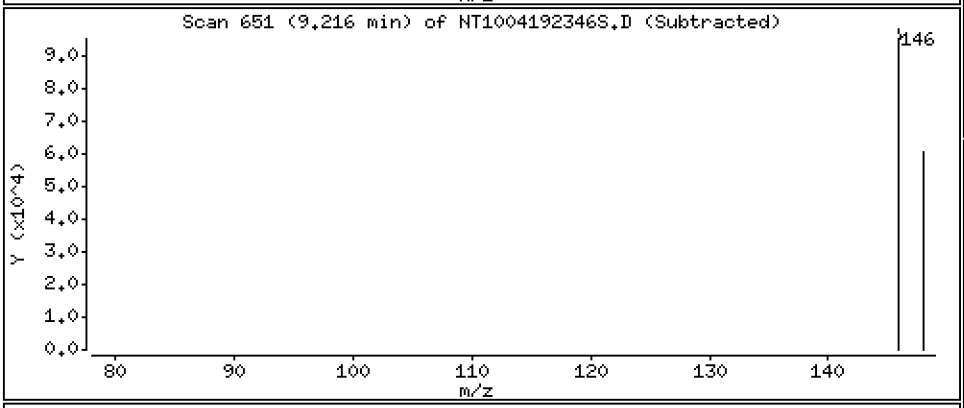
Column diameter: 0.25

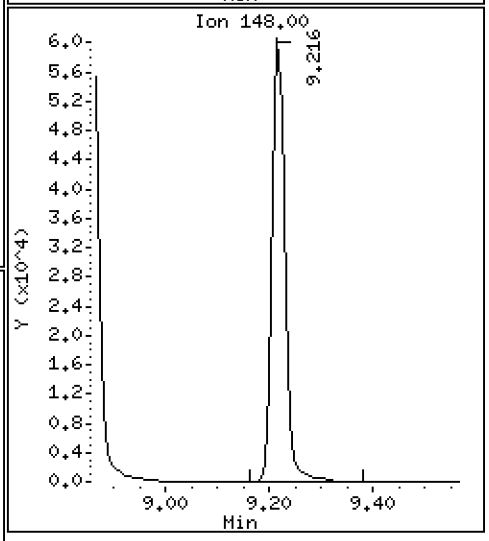
12 1,2-Dichlorobenzene

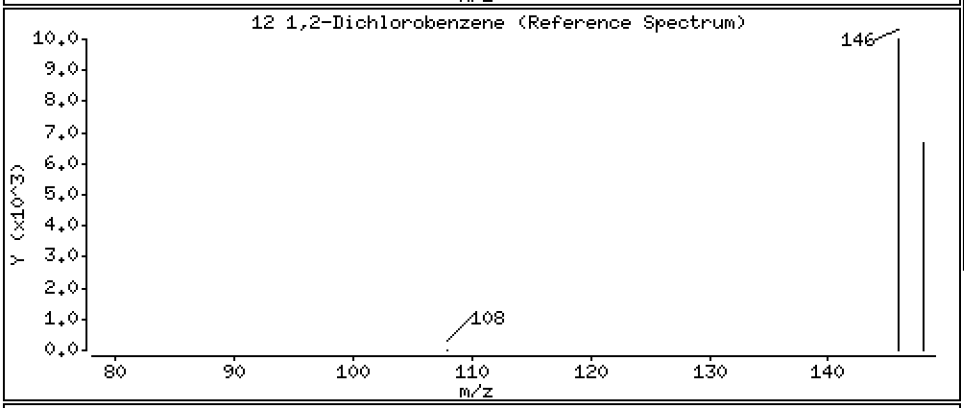
Concentration: 2.982 ug/L

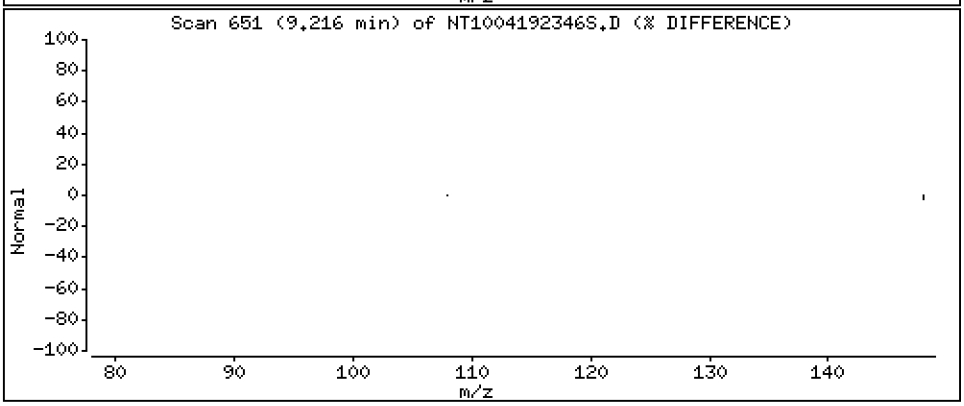












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192346S.D

Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD2

Volume Injected (uL): 1.0

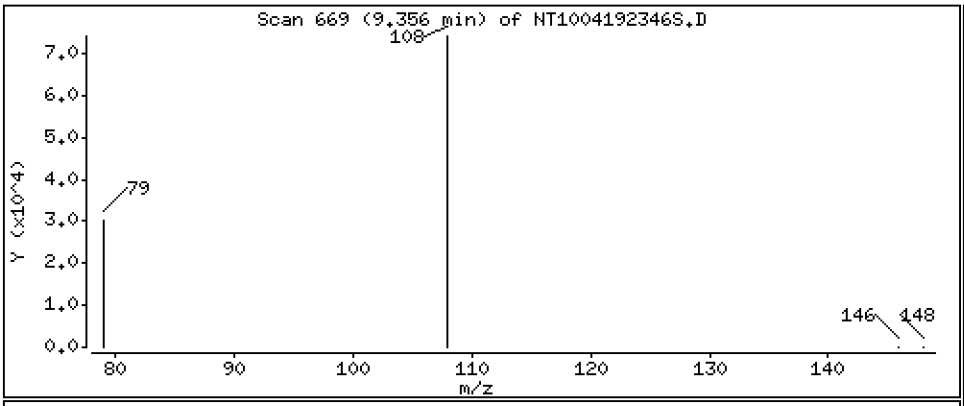
Operator: DSD

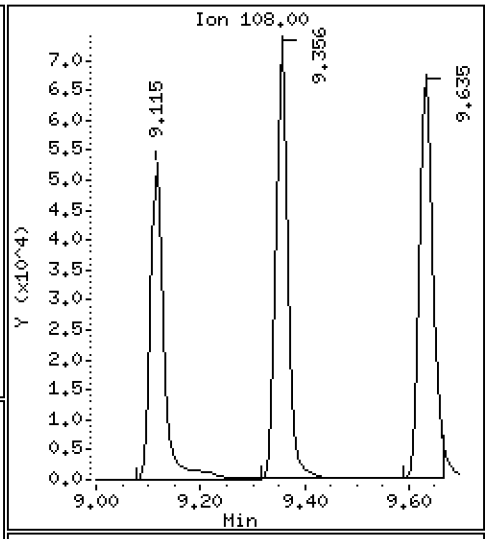
Column phase: ZB-5msi

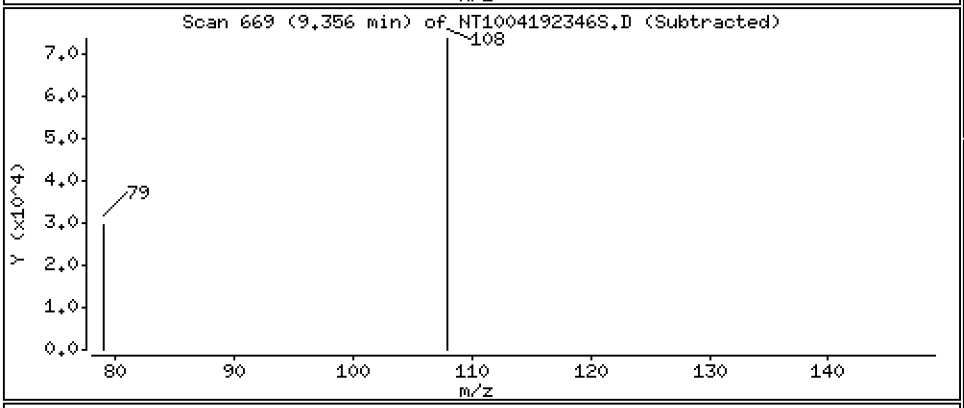
Column diameter: 0.25

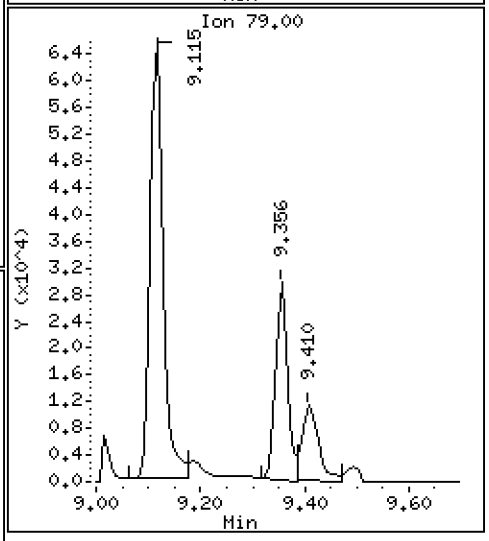
13 2-Methylphenol

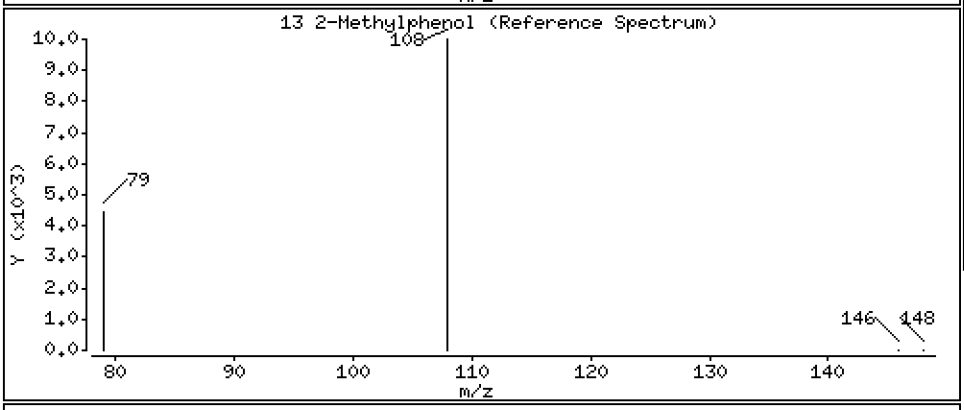
Concentration: 2.899 ug/L

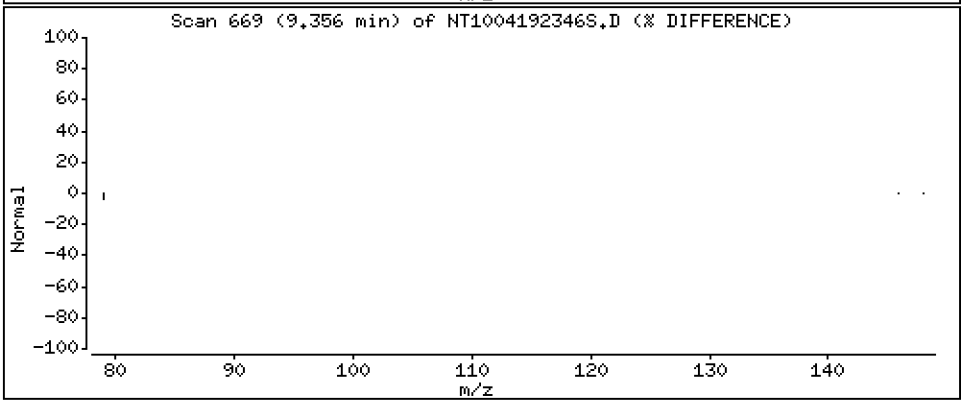












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192346S.D

Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD2

Volume Injected (uL): 1.0

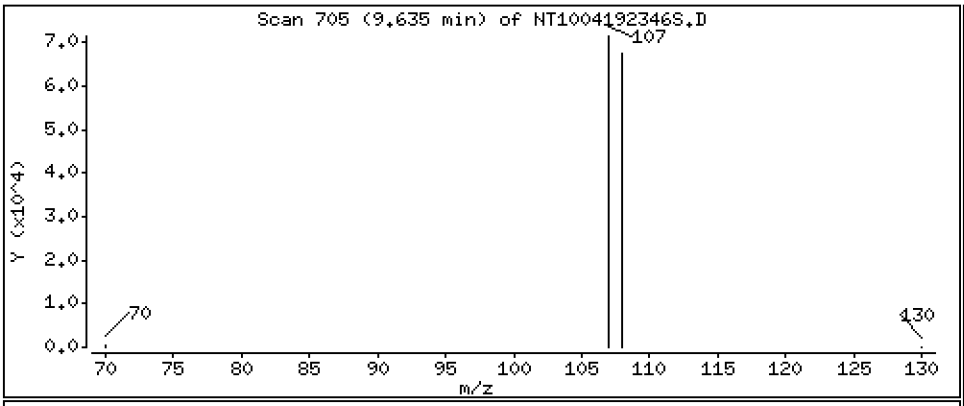
Operator: DSD

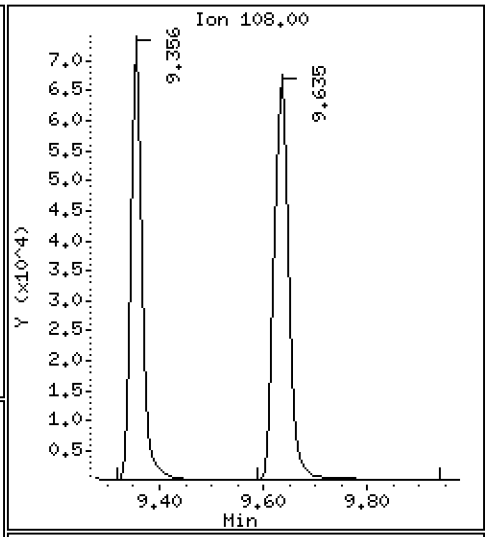
Column phase: ZB-5msi

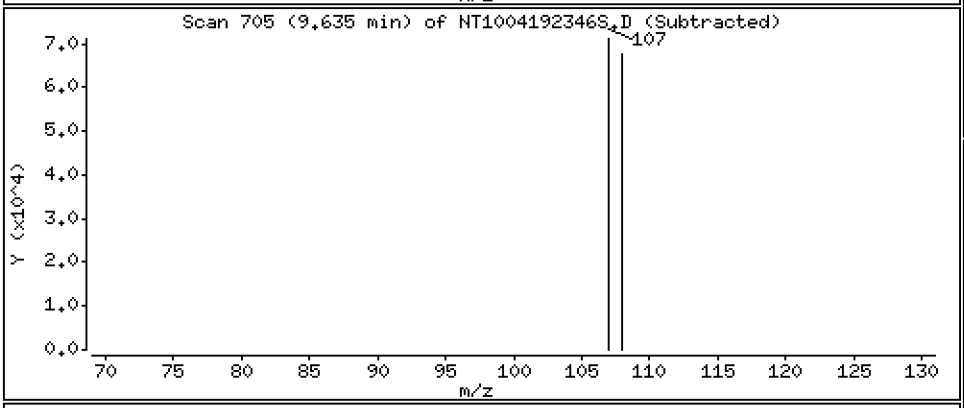
Column diameter: 0.25

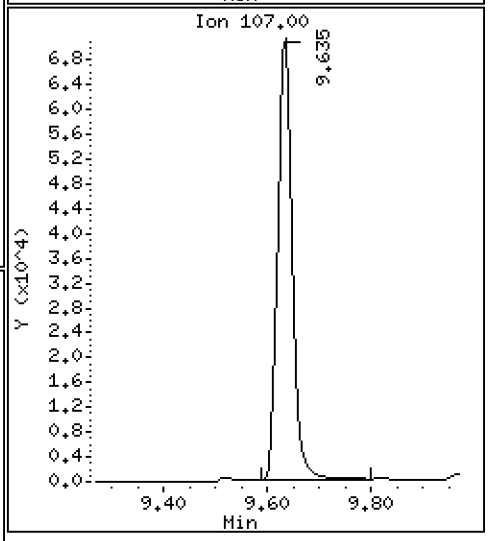
15 4-Methylphenol

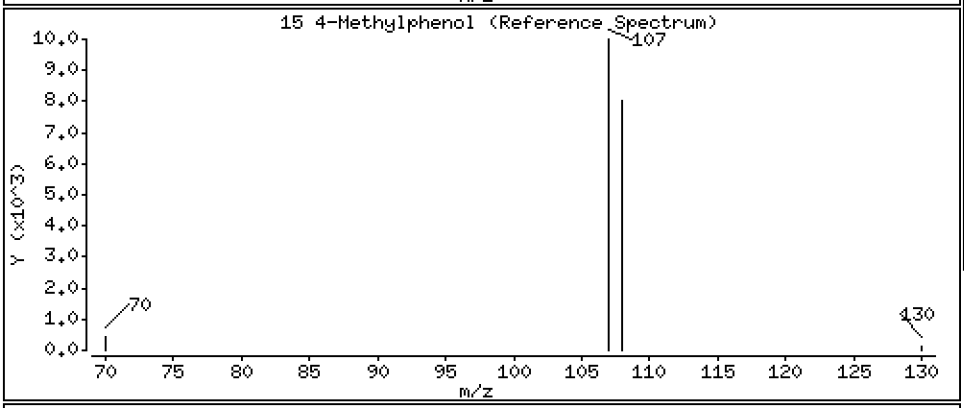
Concentration: 3.137 ug/L

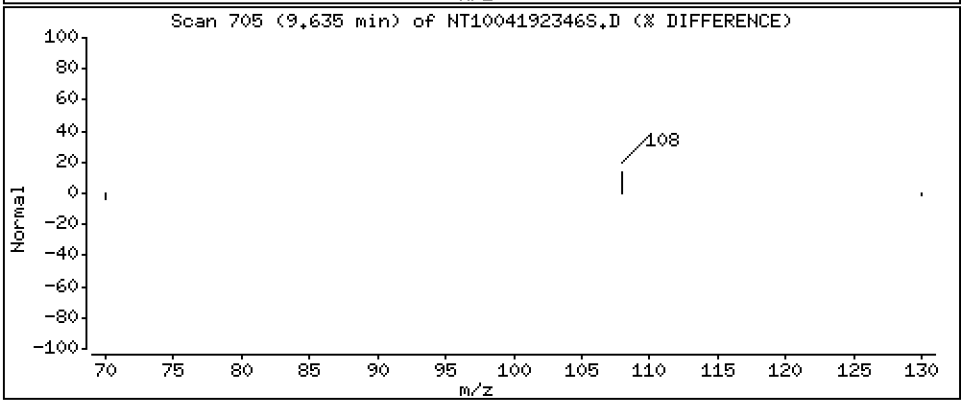












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192346S.D

Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD2

Volume Injected (uL): 1.0

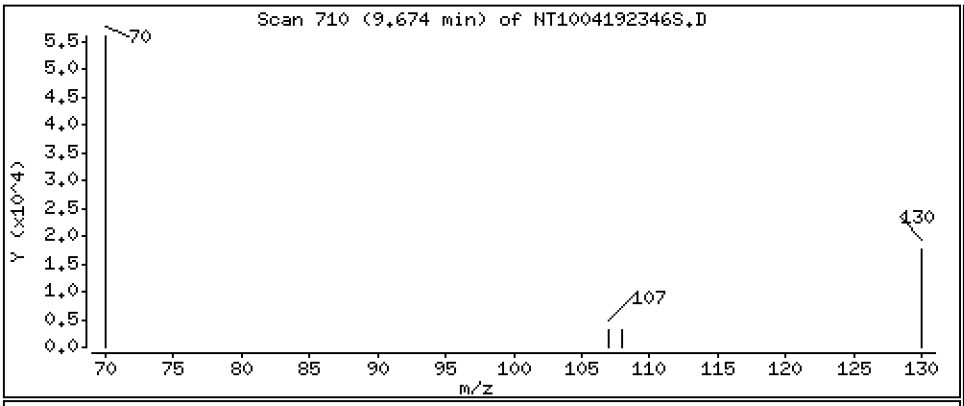
Operator: DSD

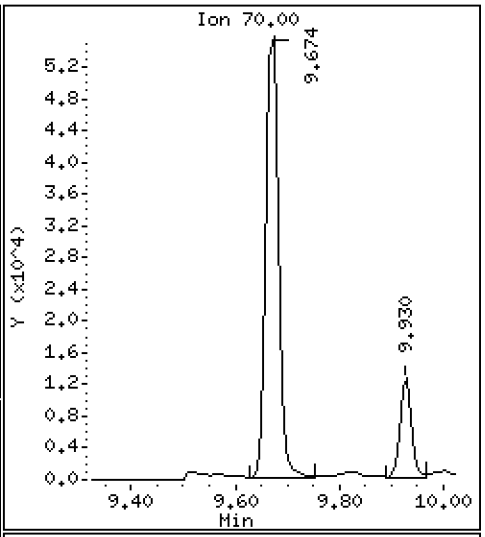
Column phase: ZB-5msi

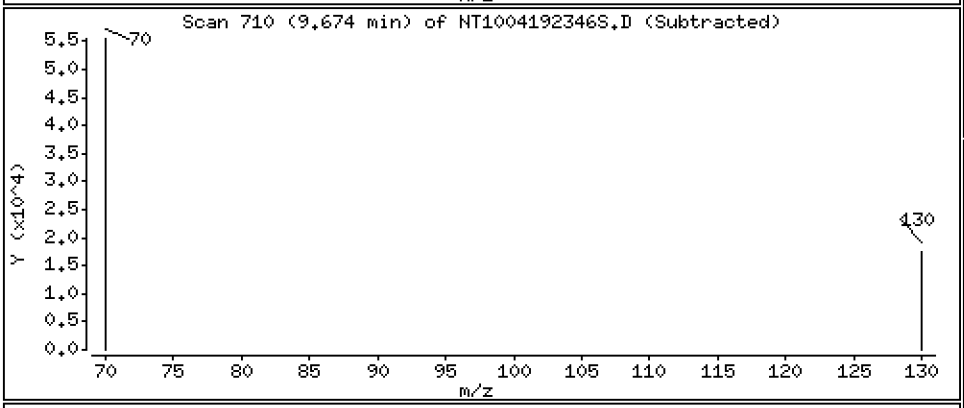
Column diameter: 0.25

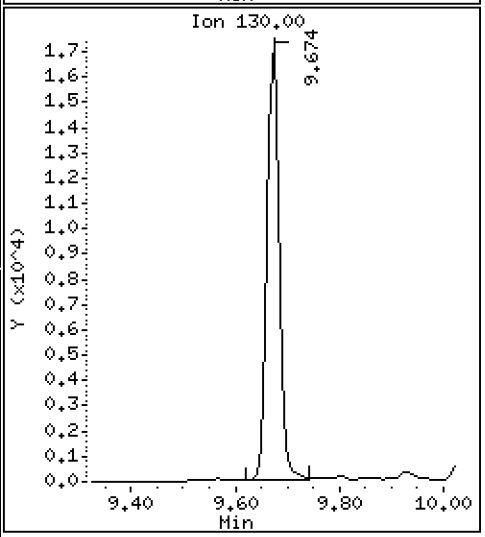
16 N-Nitroso-di-n-propylamine

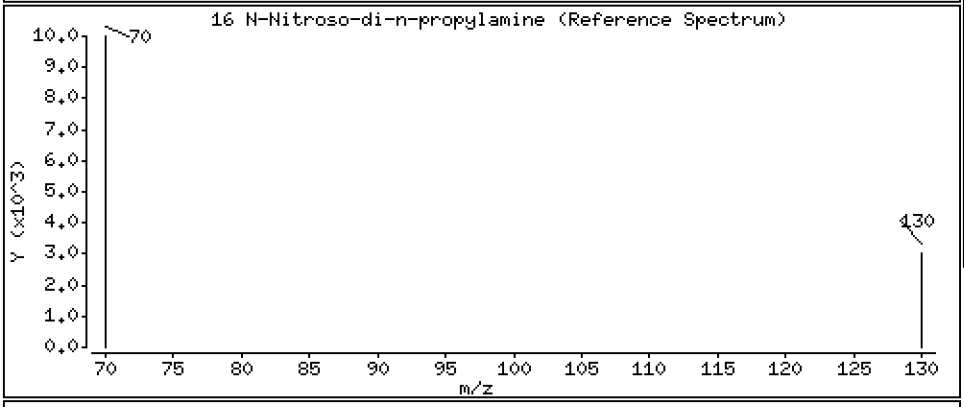
Concentration: 3.050 ug/L

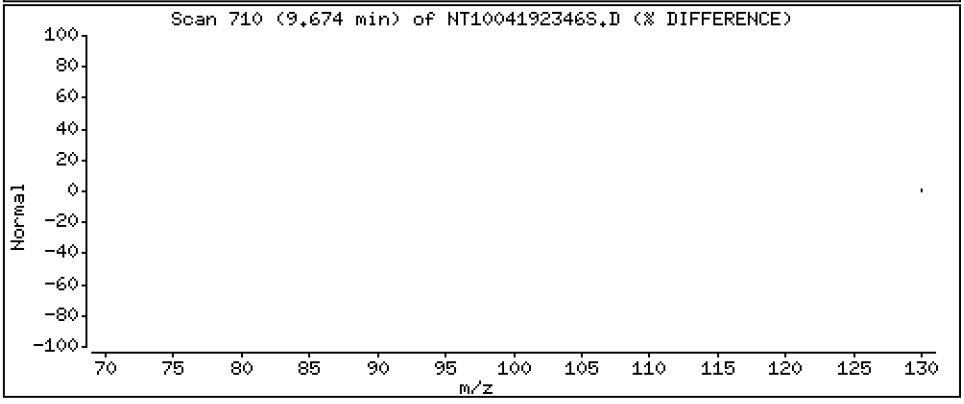












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD2

Volume Injected (uL): 1.0

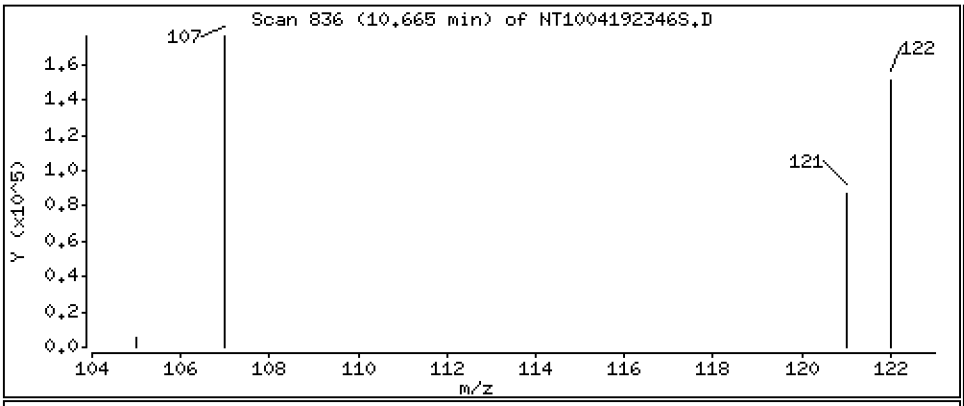
Operator: DSD

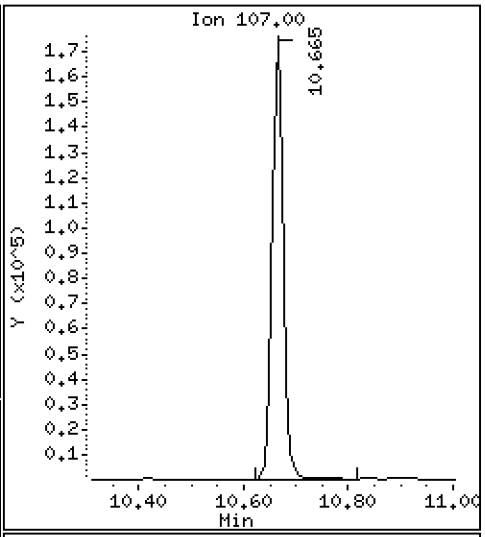
Column phase: ZB-5msi

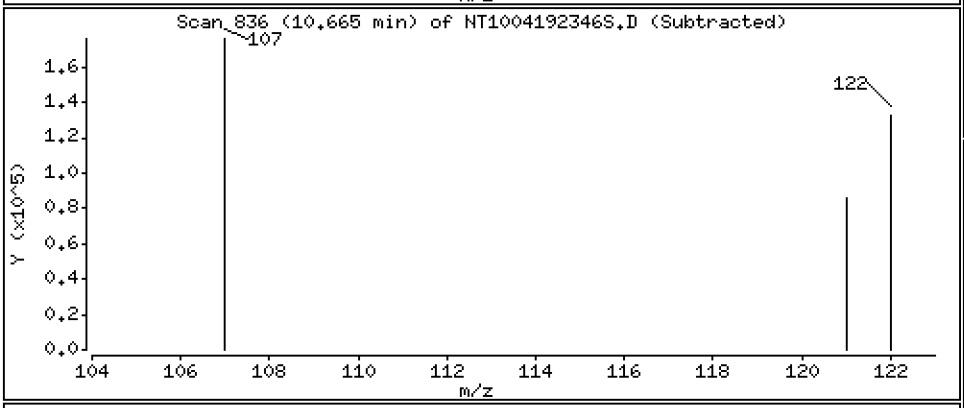
Column diameter: 0.25

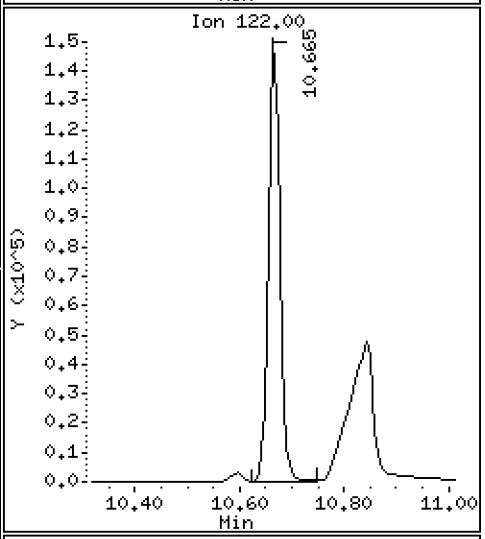
22 2,4-Dimethylphenol

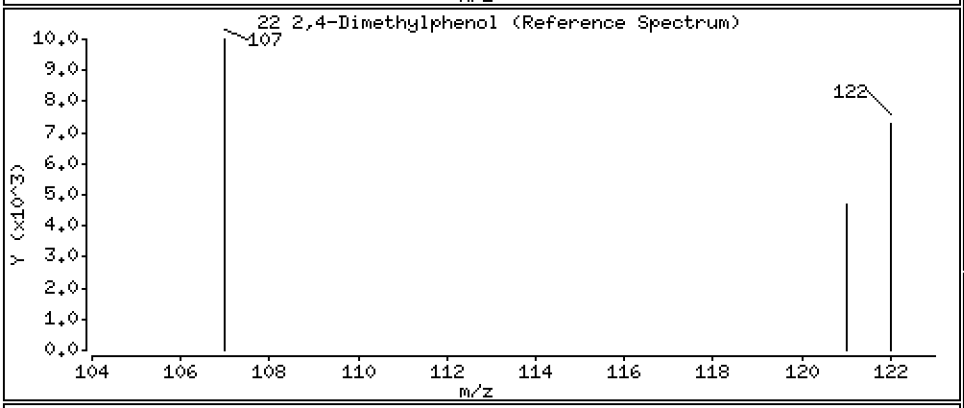
Concentration: 6.101 ug/L

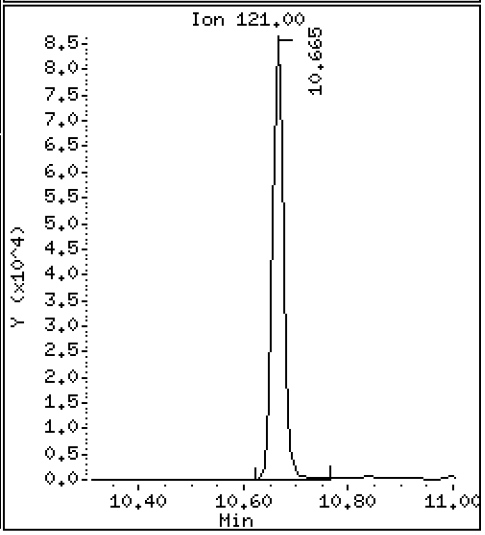


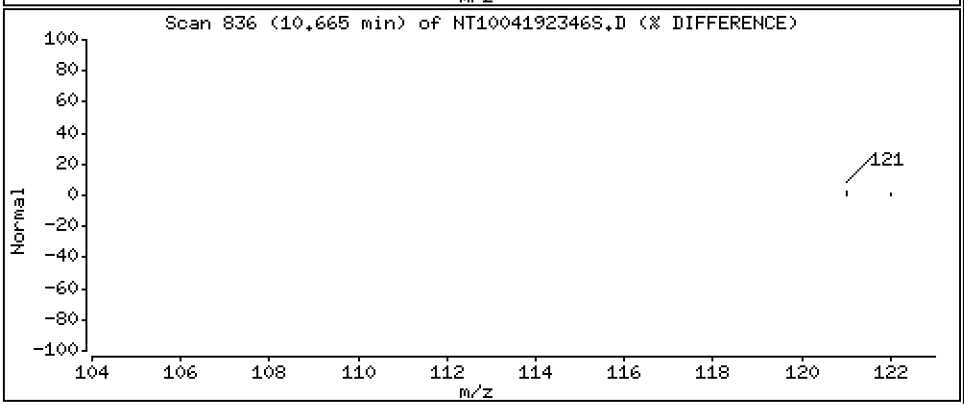












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD2

Volume Injected (uL): 1.0

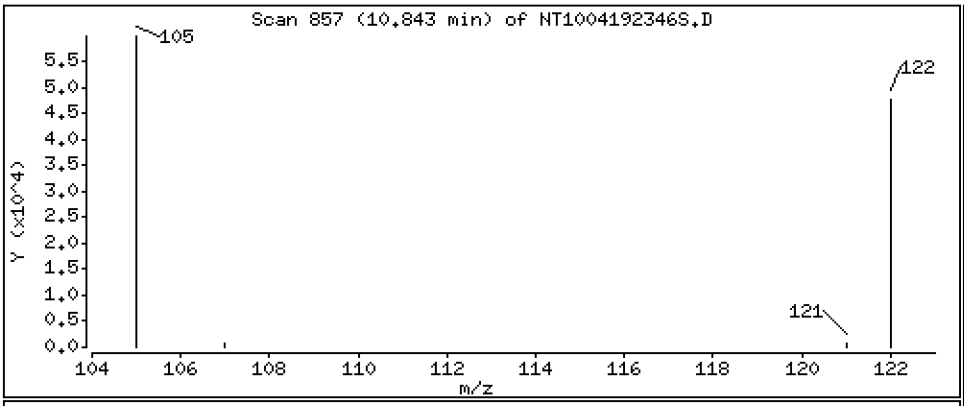
Operator: DSD

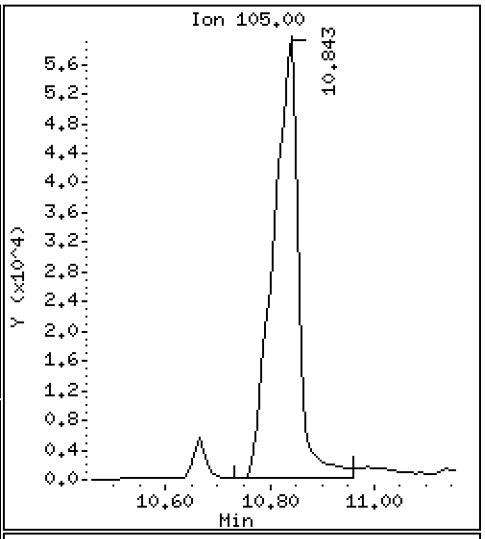
Column phase: ZB-5msi

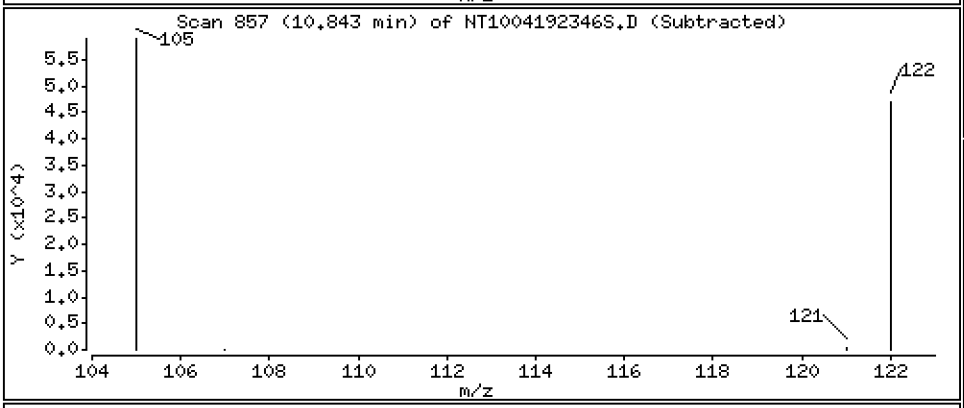
Column diameter: 0.25

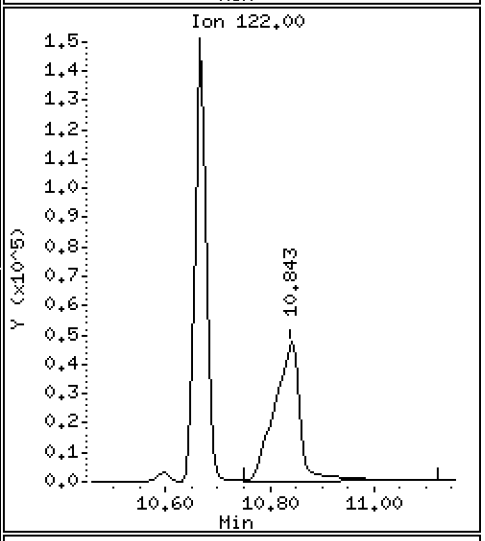
24 Benzoic acid

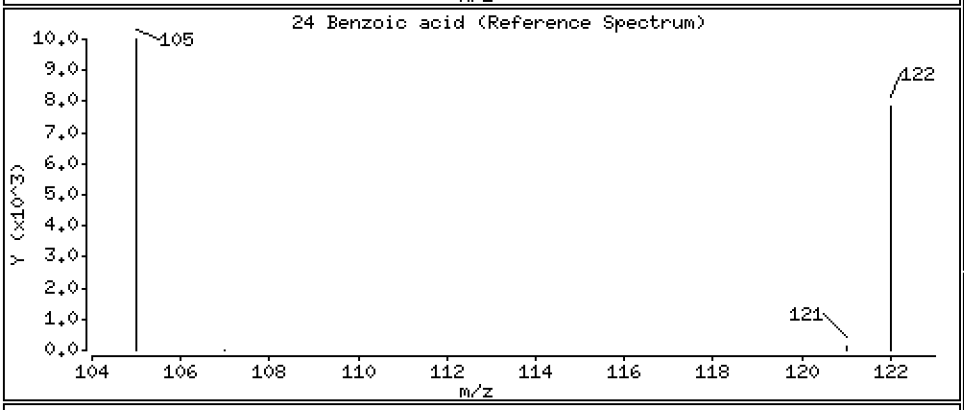
Concentration: 8.394 ug/L

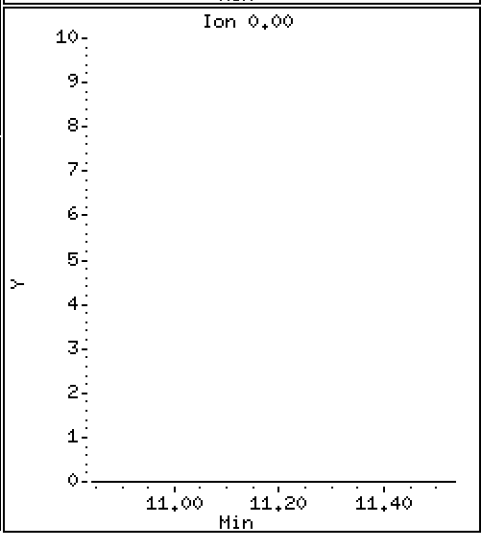


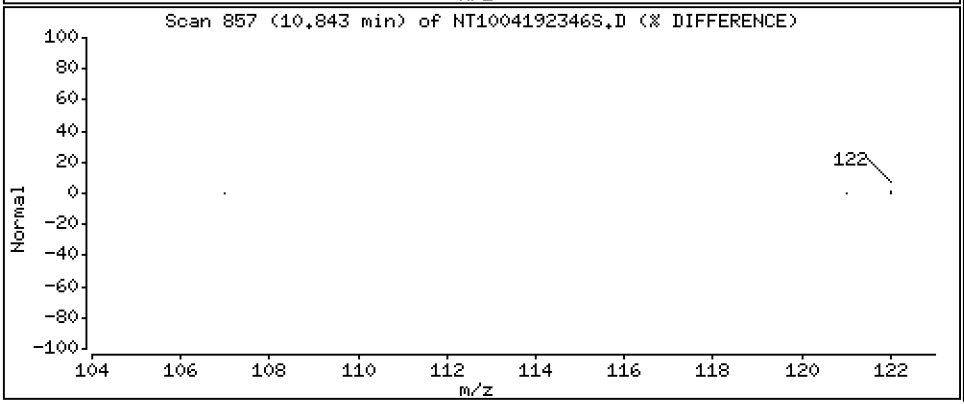












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192346S.D

Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD2

Volume Injected (uL): 1.0

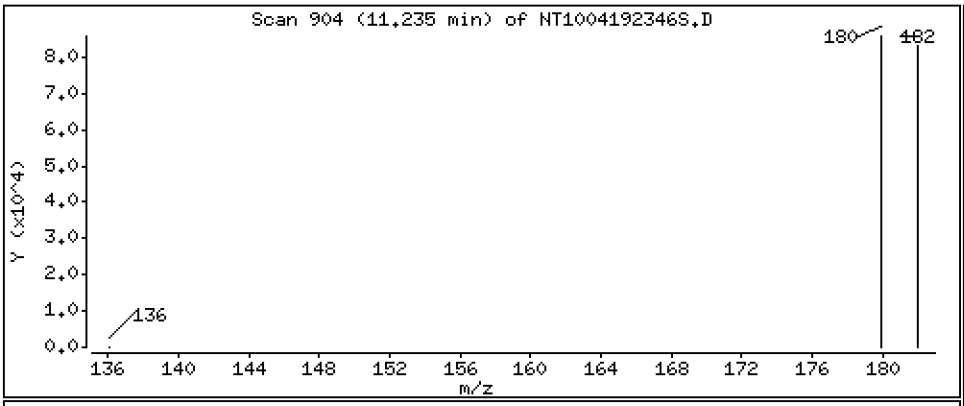
Operator: DSD

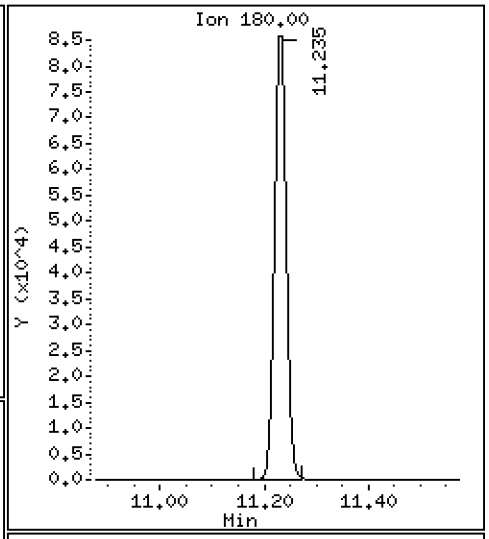
Column phase: ZB-5msi

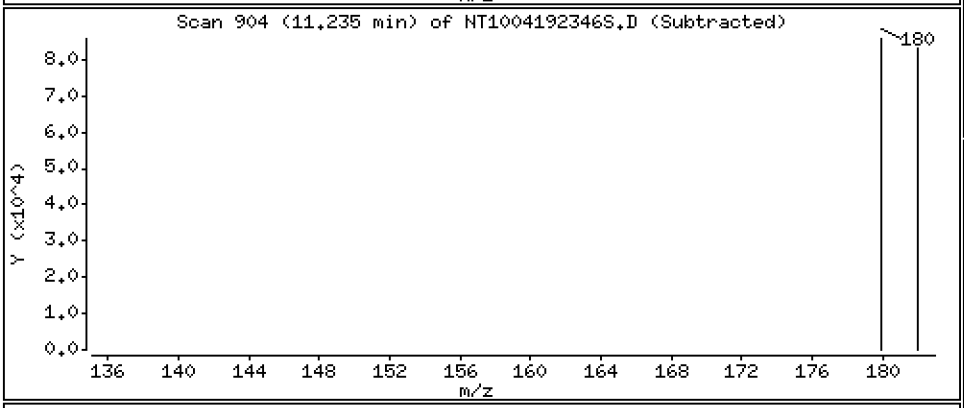
Column diameter: 0.25

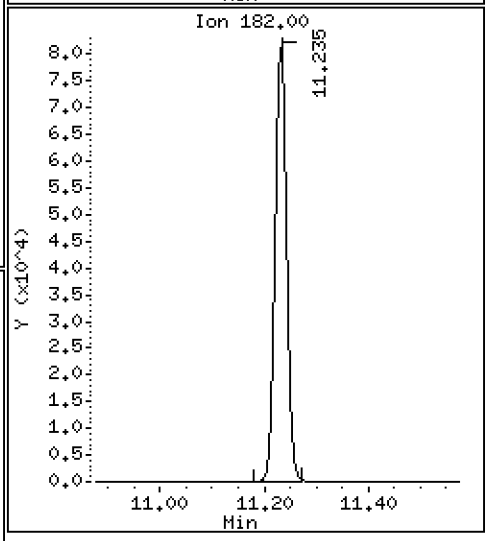
26 1,2,4-Trichlorobenzene

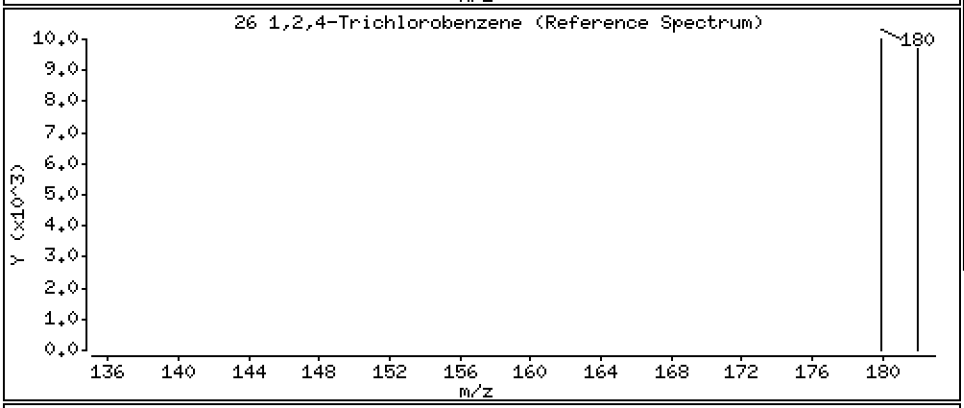
Concentration: 3.264 ug/L

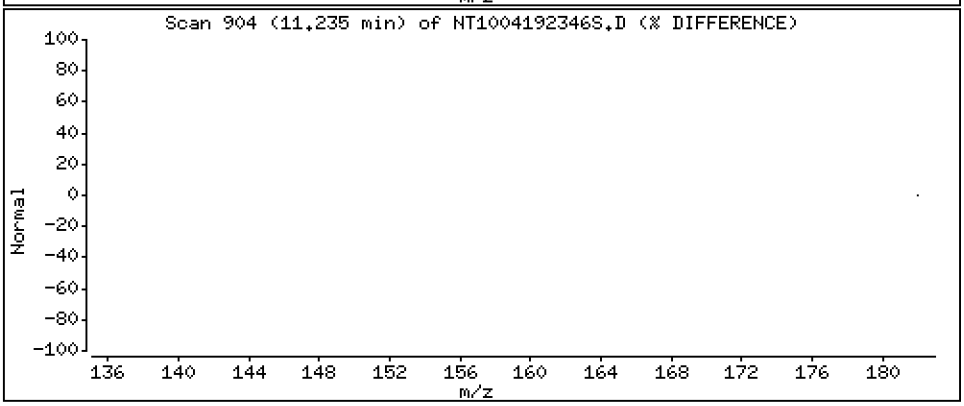












Date : 20-APR-2023 15:56

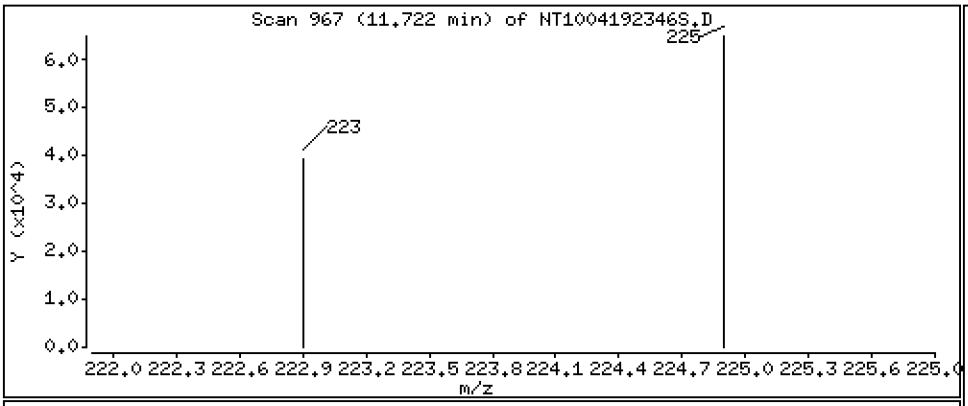
Client ID: Instrument: nt10.i

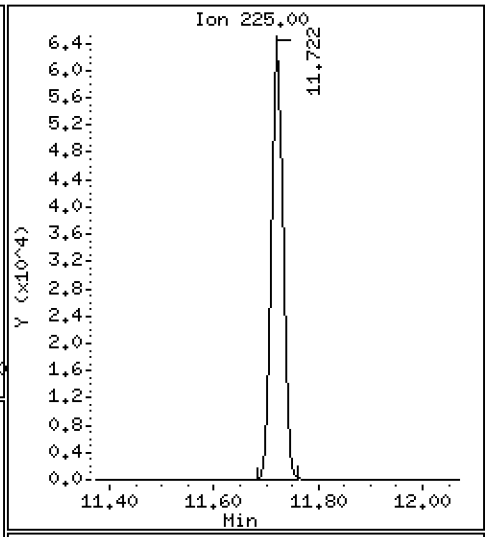
Sample Info: BLD0008-MSD2

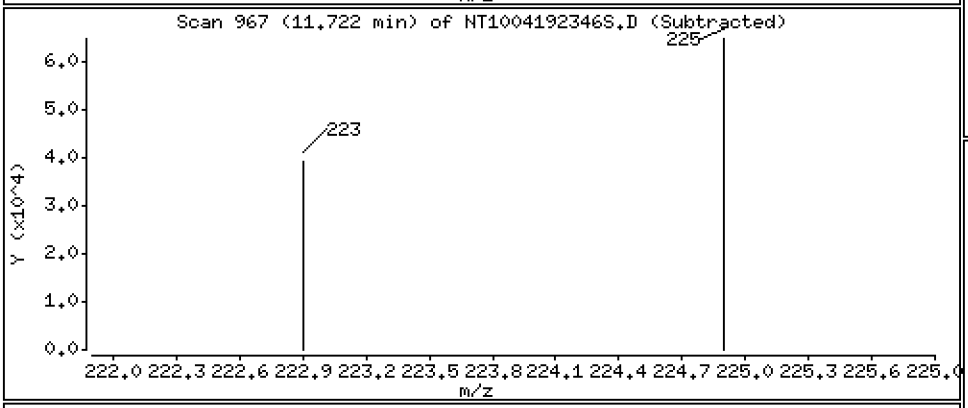
Volume Injected (uL): 1.0 Operator: DSD

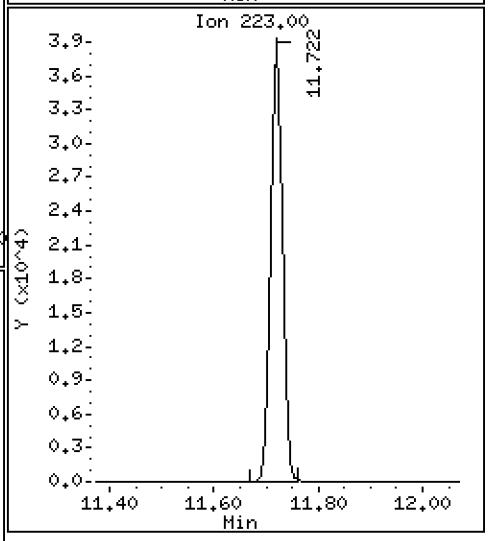
Column phase: ZB-5msi Column diameter: 0.25

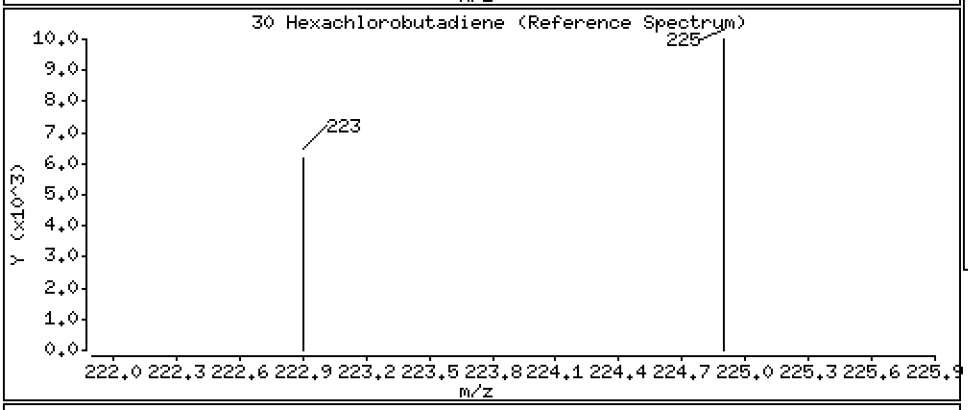
30 Hexachlorobutadiene Concentration: 3.507 ug/L

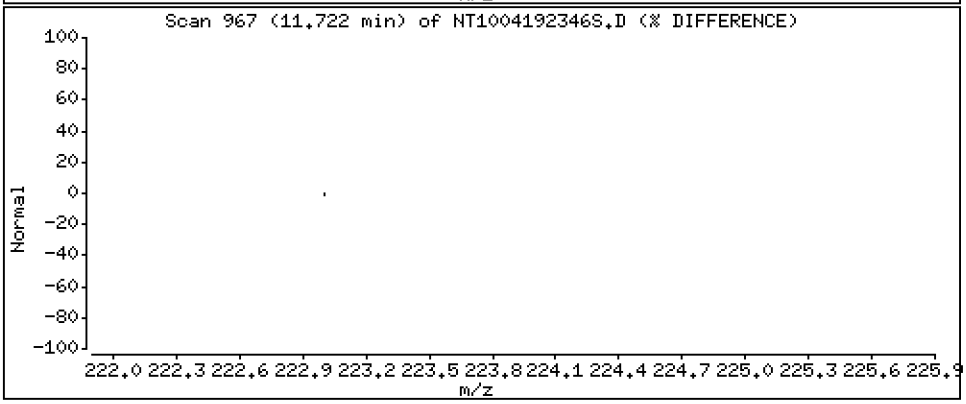












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192346S.D

Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD2

Volume Injected (uL): 1.0

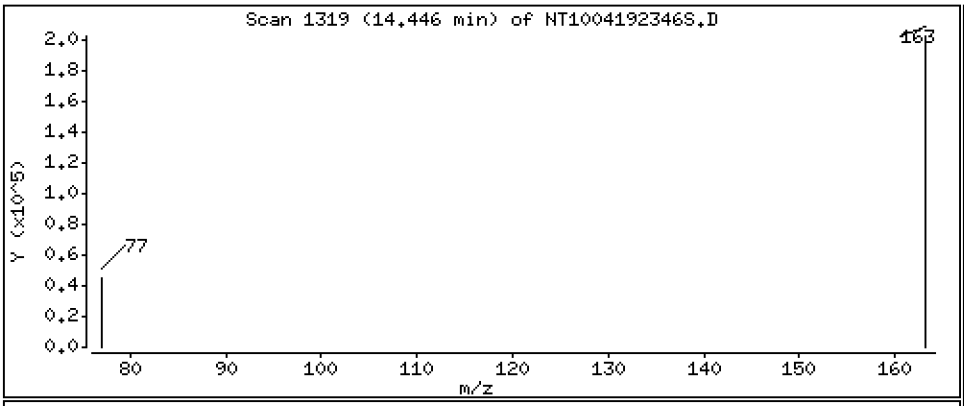
Operator: DSD

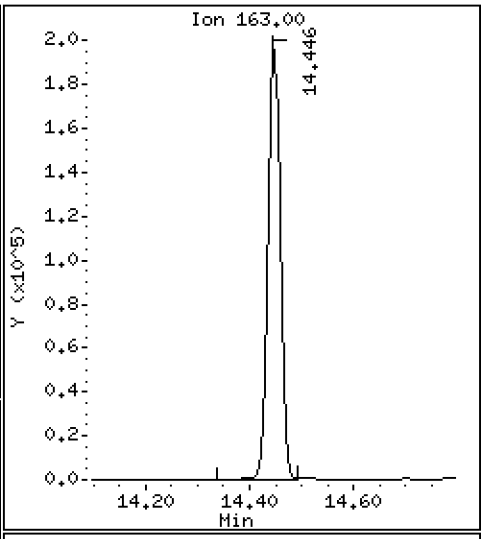
Column phase: ZB-5msi

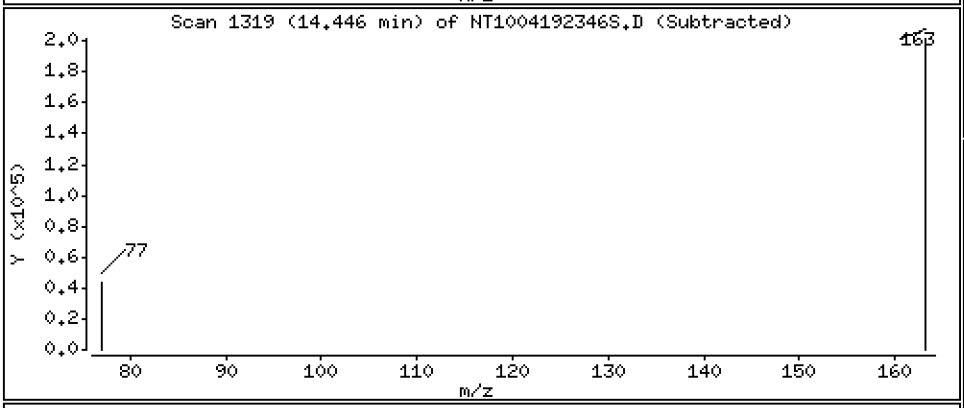
Column diameter: 0.25

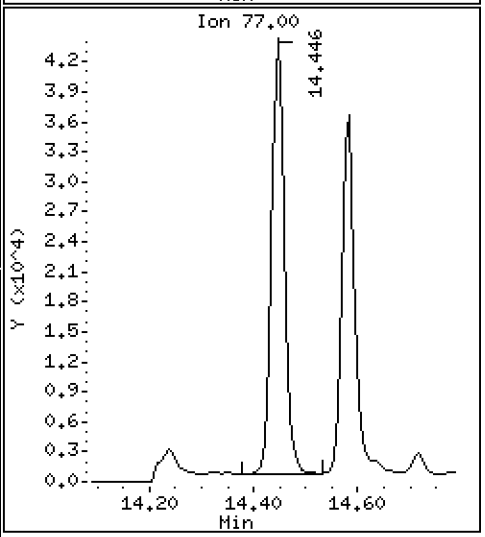
39 Dimethylphthalate

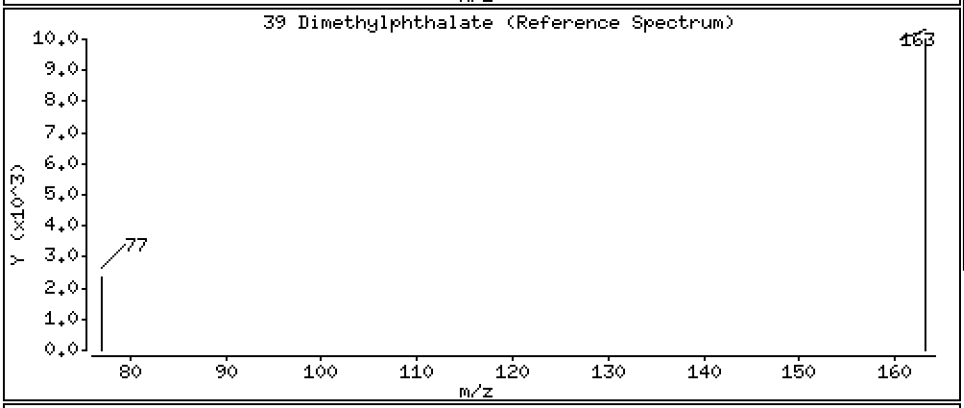
Concentration: 3.665 ug/L

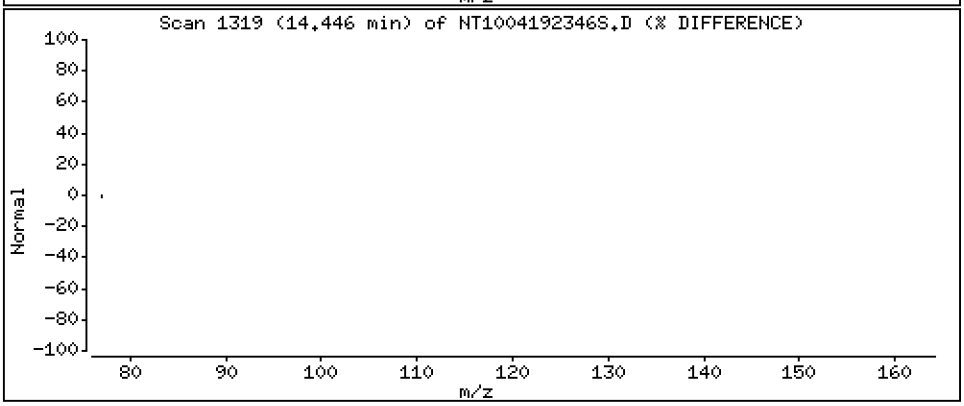












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD2

Volume Injected (uL): 1.0

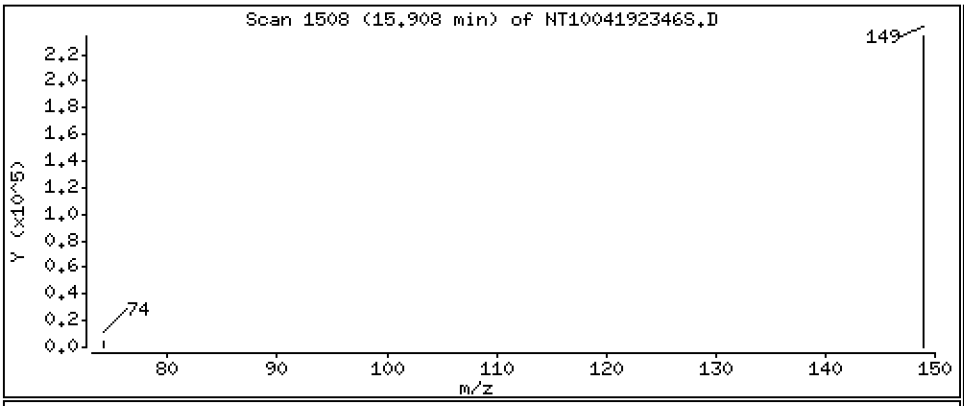
Operator: DSD

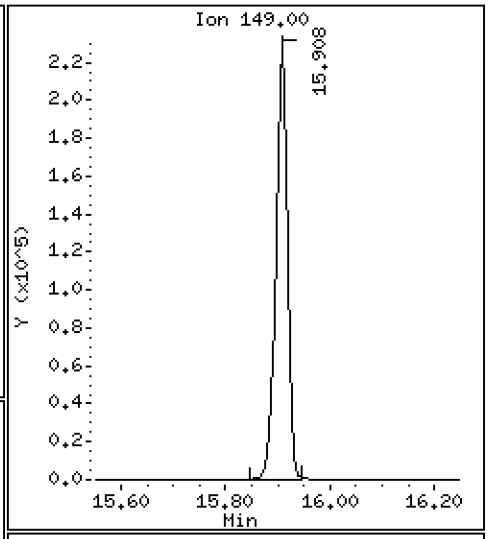
Column phase: ZB-5msi

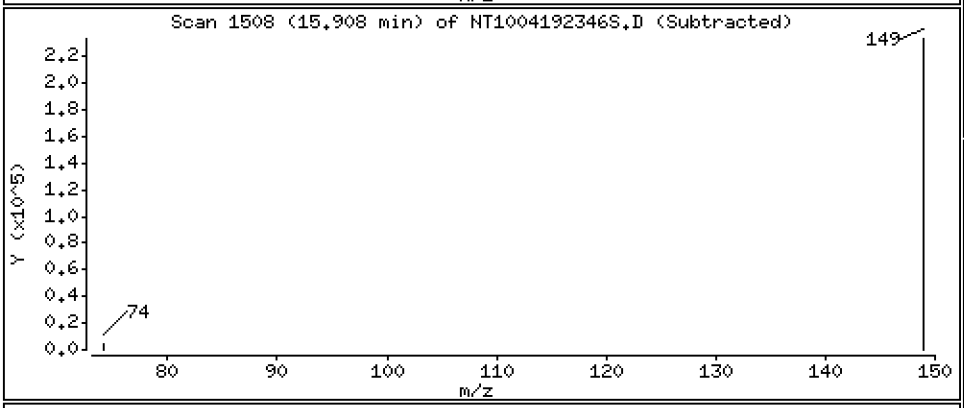
Column diameter: 0.25

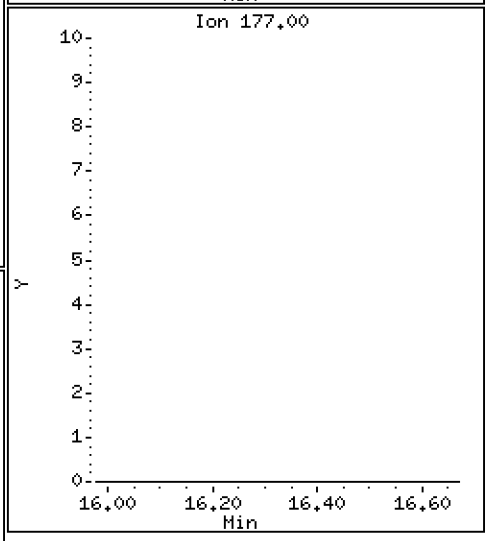
50 Diethylphthalate

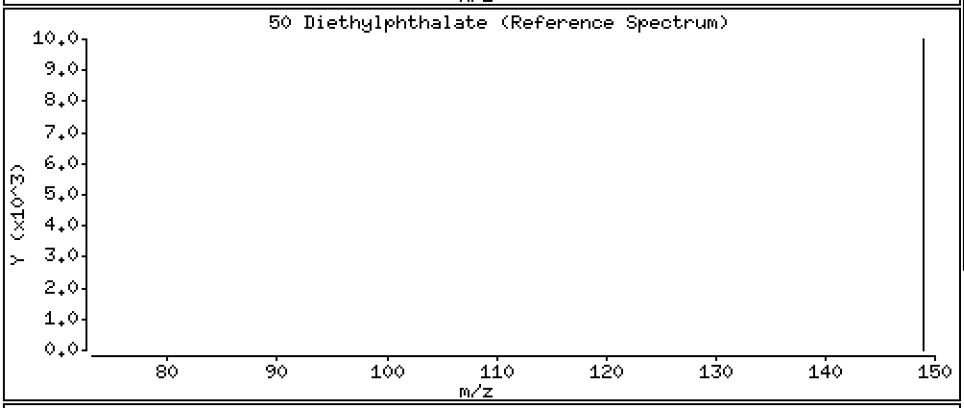
Concentration: 4.099 ug/L

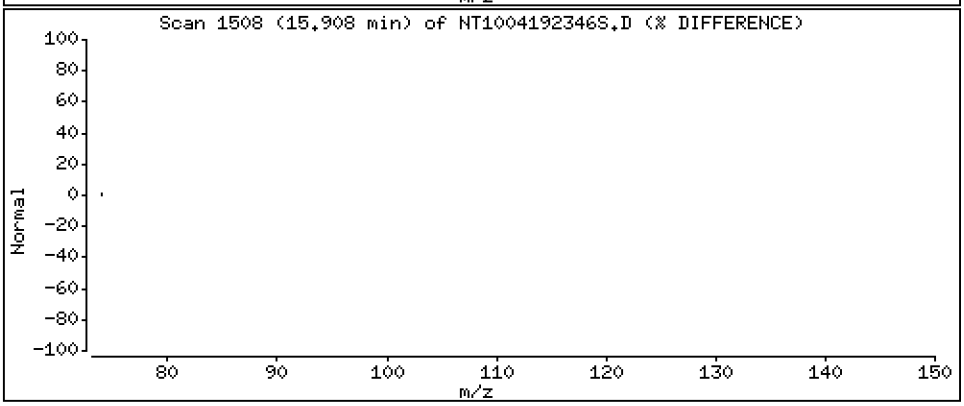












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192346S.D

Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD2

Volume Injected (uL): 1.0

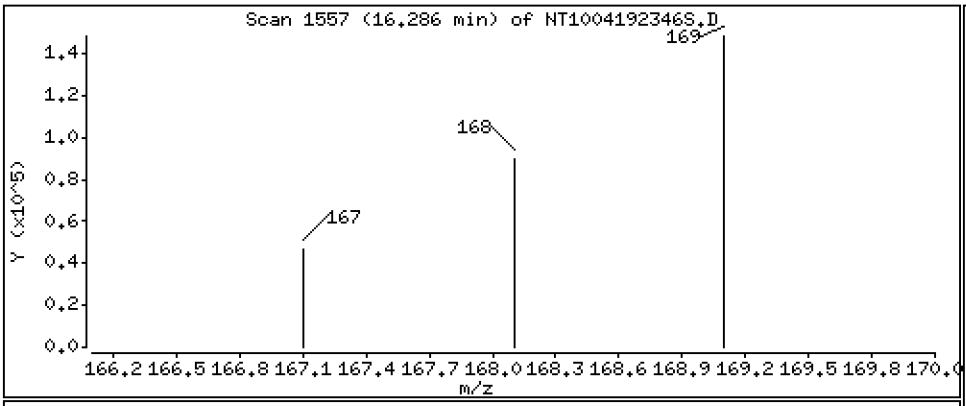
Operator: DSD

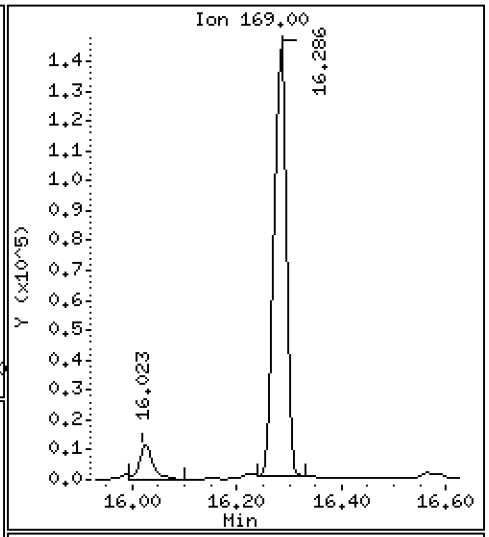
Column phase: ZB-5msi

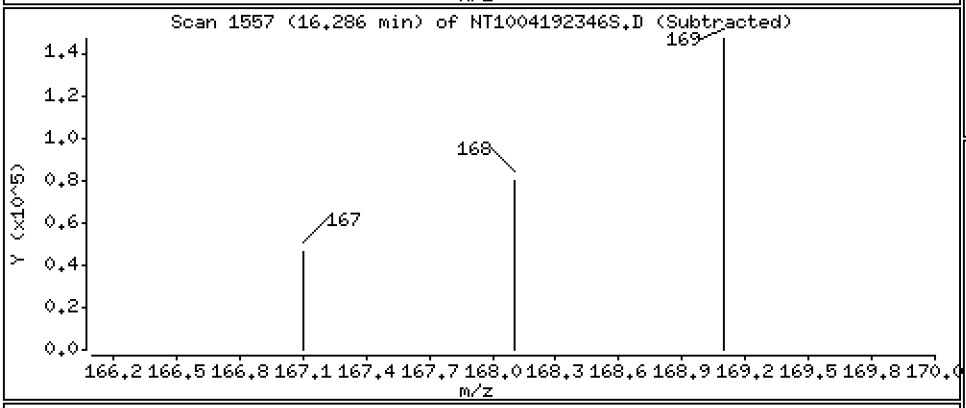
Column diameter: 0.25

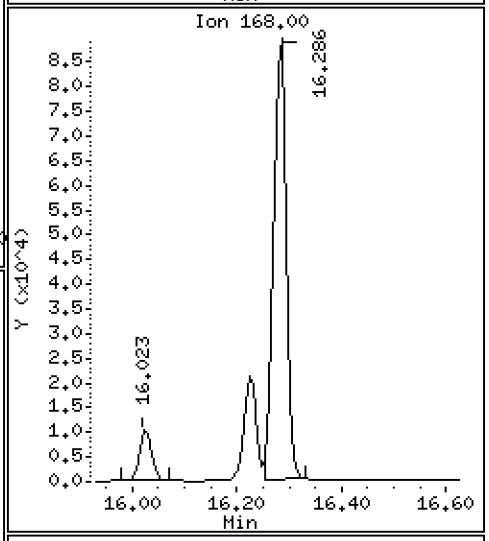
54 N-Nitrosodiphenylamine

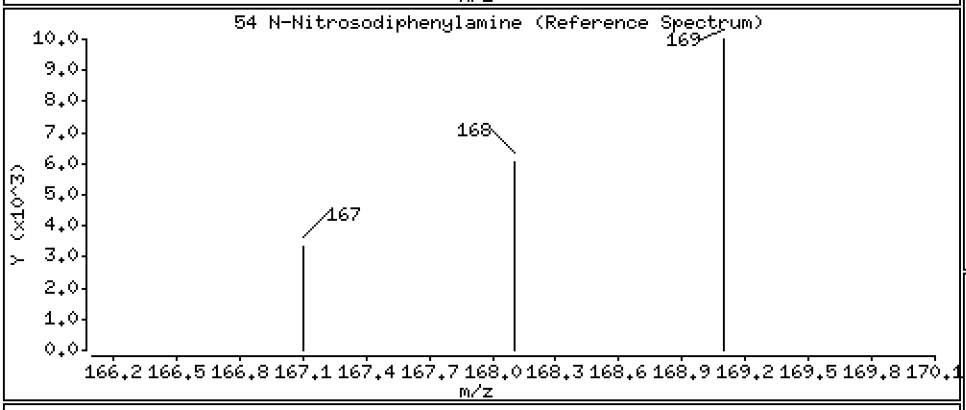
Concentration: 3.288 ug/L

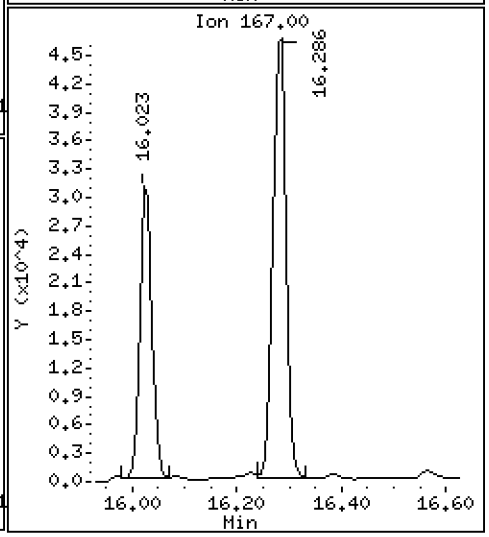


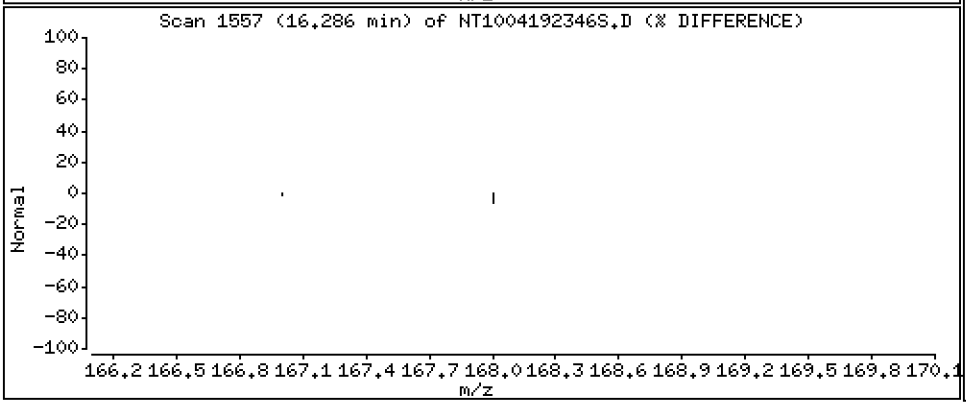












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD2

Volume Injected (uL): 1.0

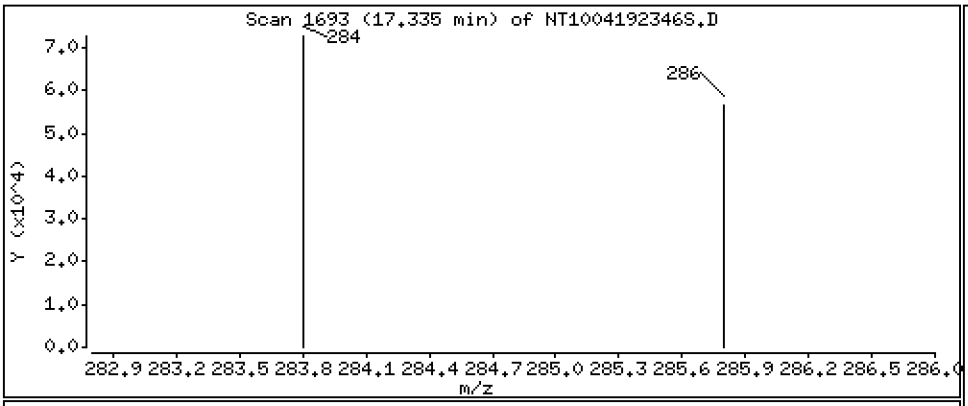
Operator: DSD

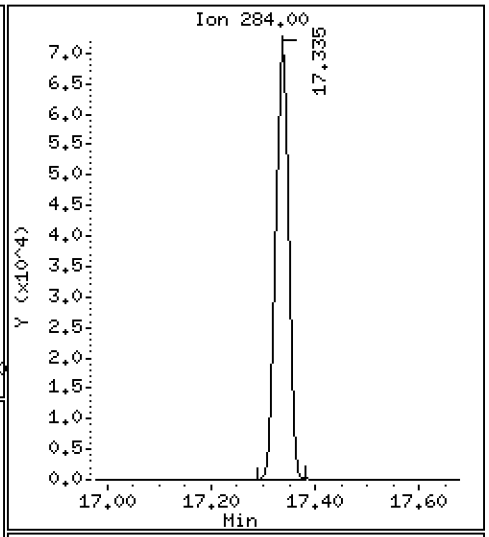
Column phase: ZB-5msi

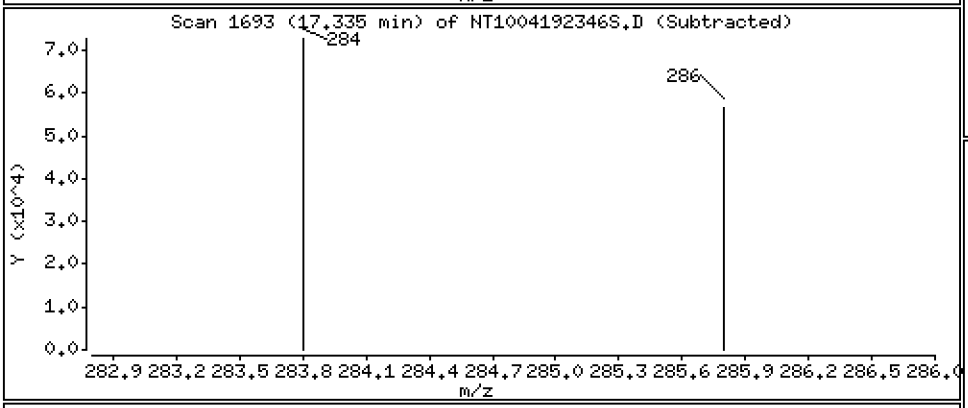
Column diameter: 0.25

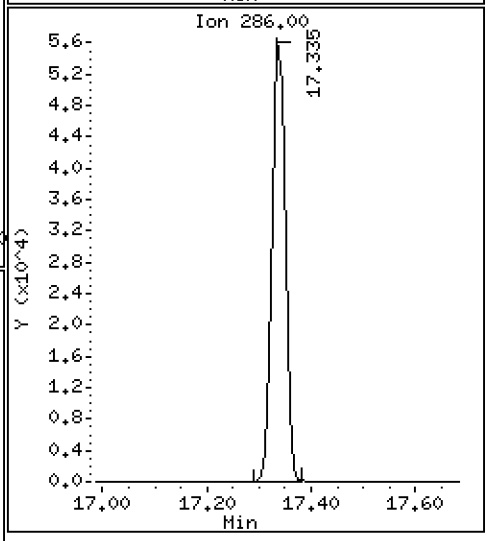
57 Hexachlorobenzene

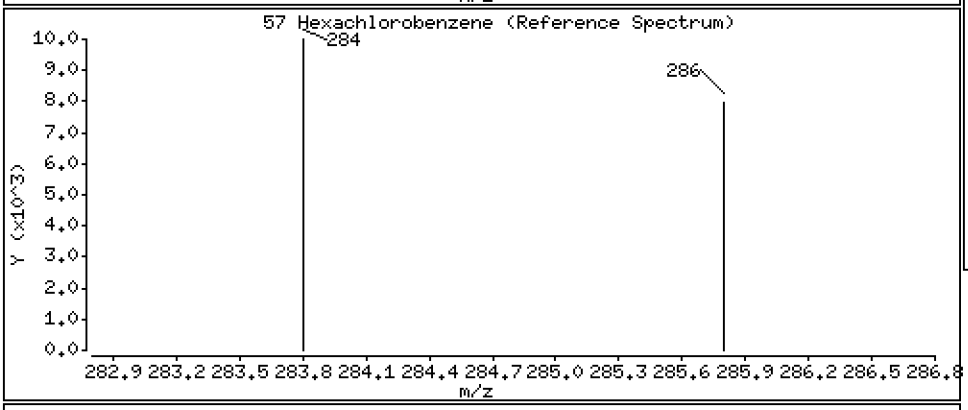
Concentration: 3.785 ug/L

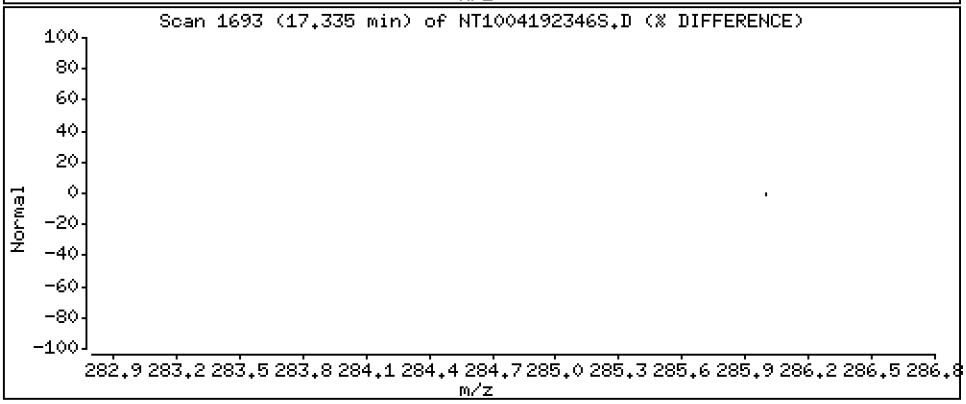












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Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD2

Volume Injected (uL): 1.0

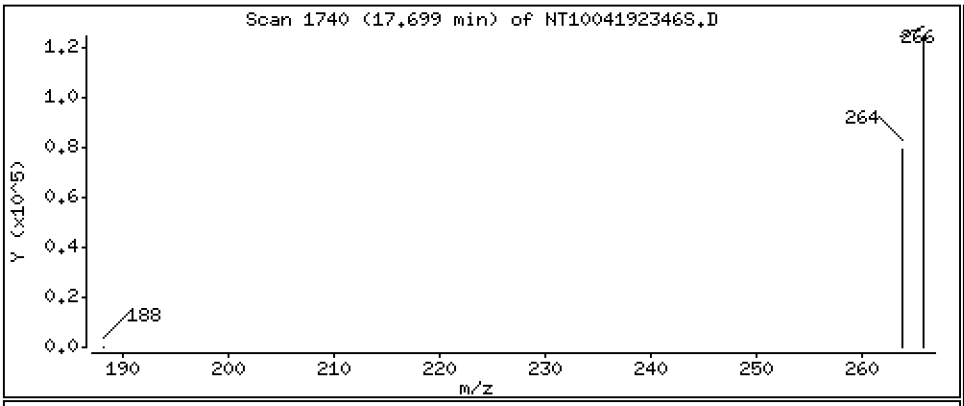
Operator: DSD

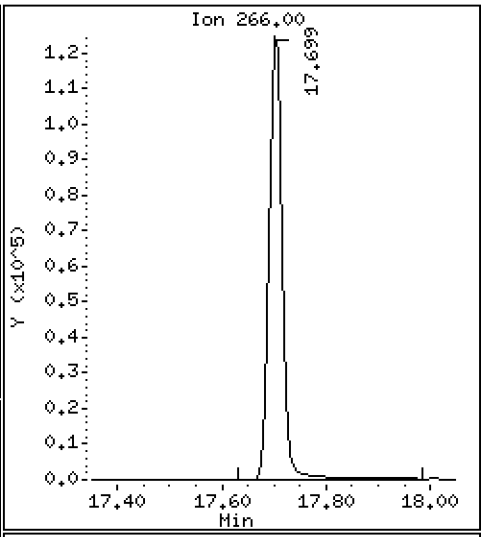
Column phase: ZB-5msi

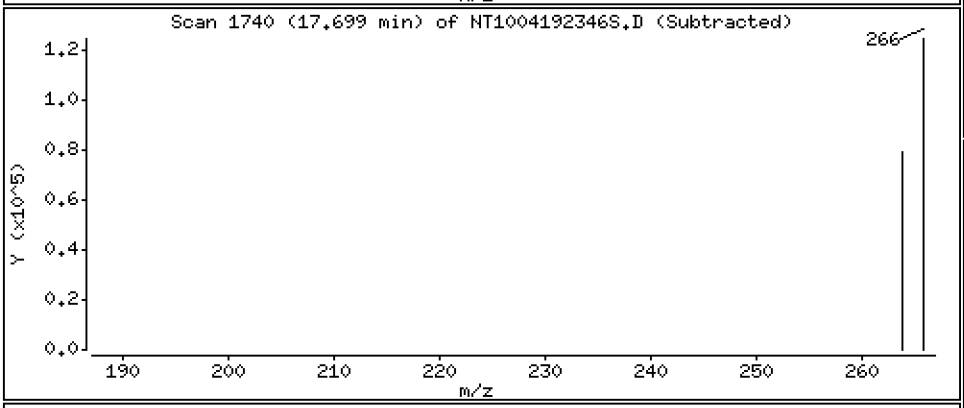
Column diameter: 0.25

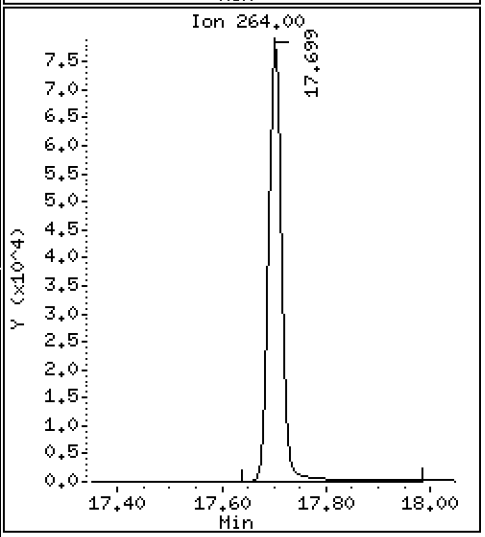
58 Pentachlorophenol

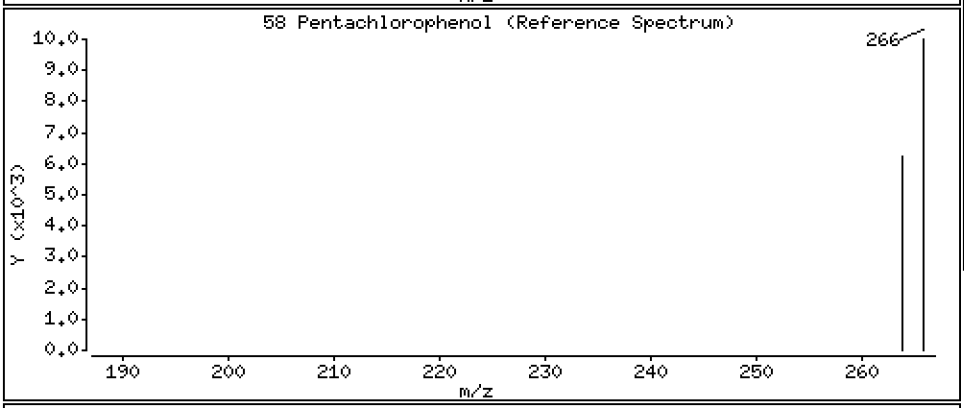
Concentration: 11.47 ug/L

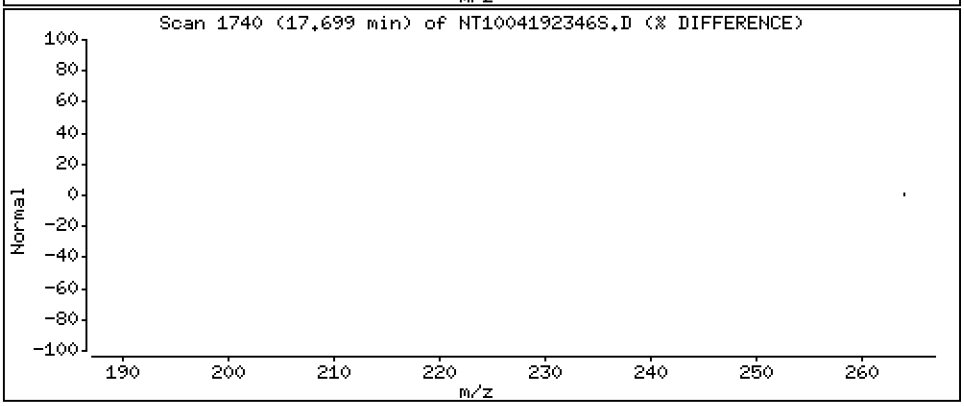












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192346S.D

Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD2

Volume Injected (uL): 1.0

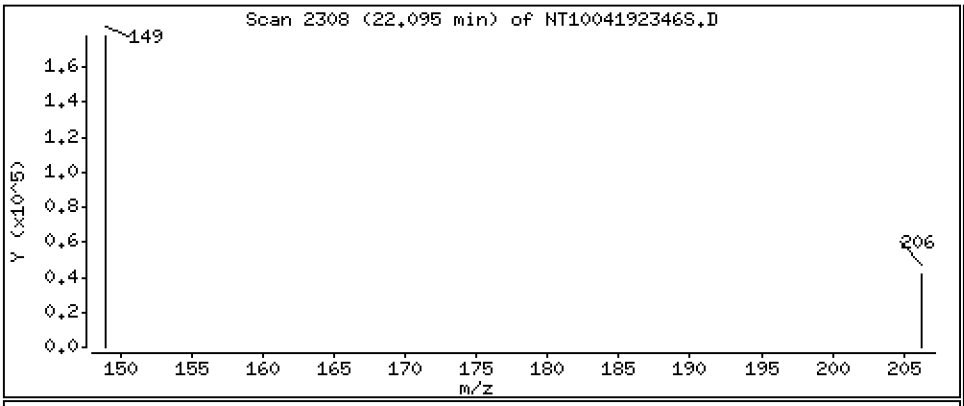
Operator: DSD

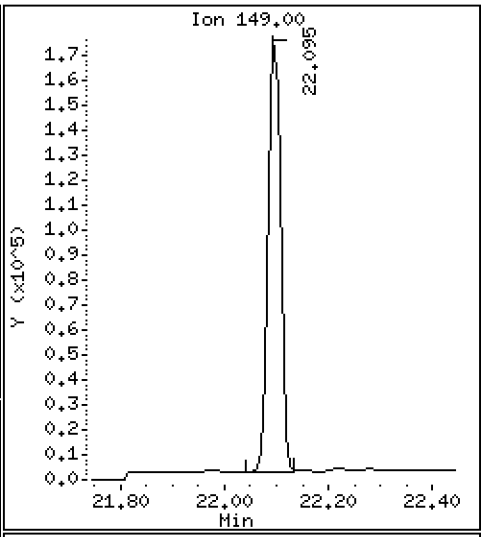
Column phase: ZB-5msi

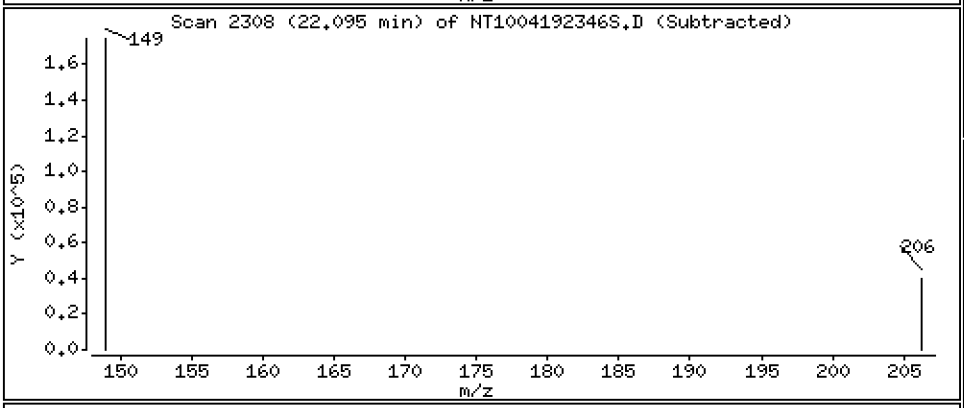
Column diameter: 0.25

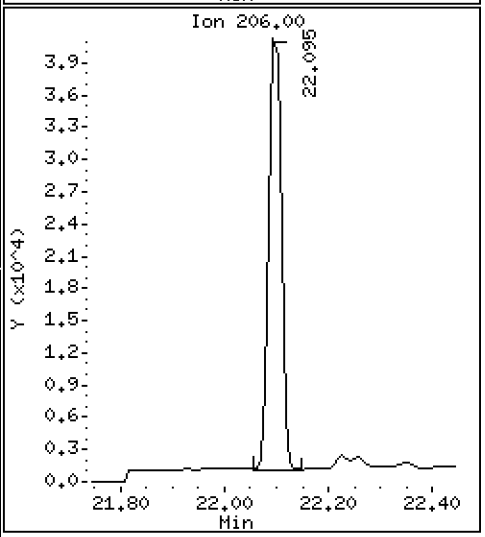
67 Butylbenzylphthalate

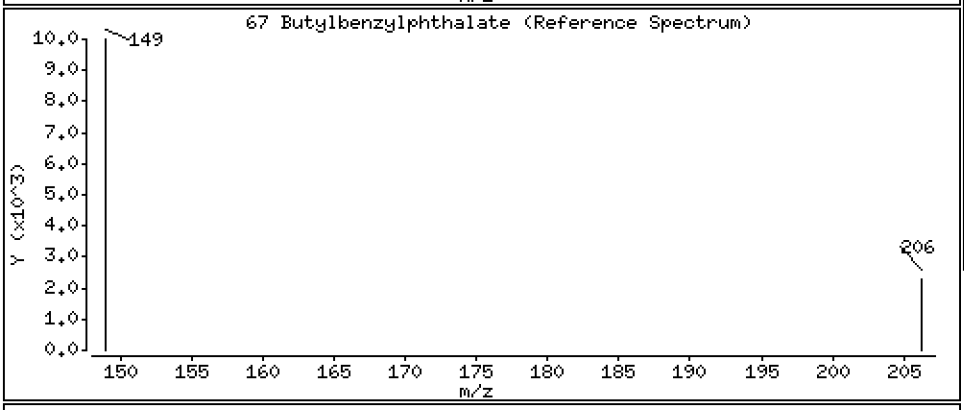
Concentration: 3.740 ug/L

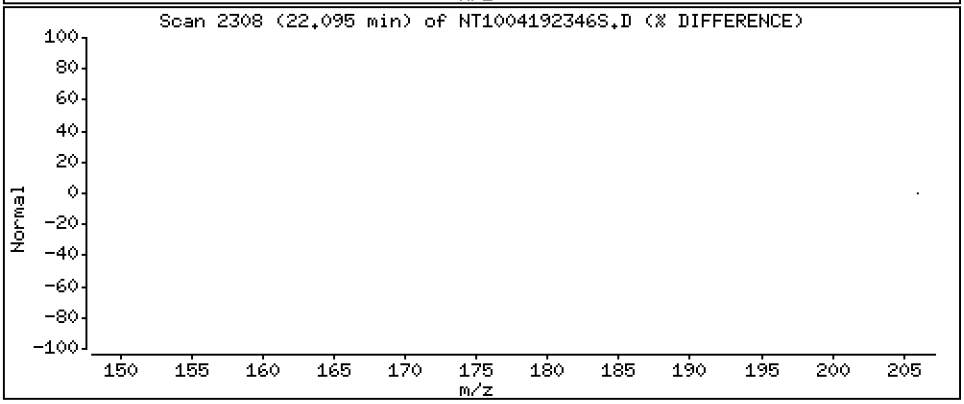












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192346S.D

Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD2

Volume Injected (uL): 1.0

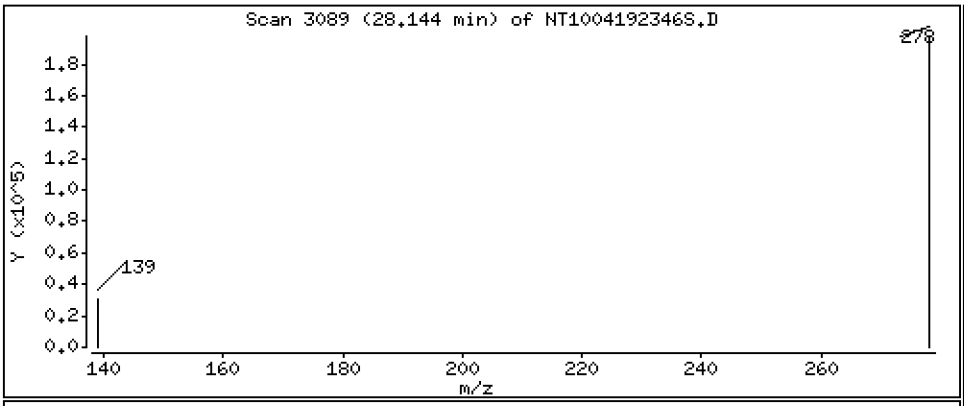
Operator: DSD

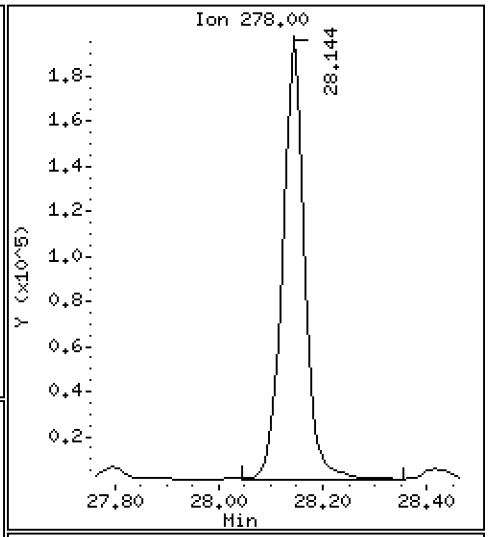
Column phase: ZB-5msi

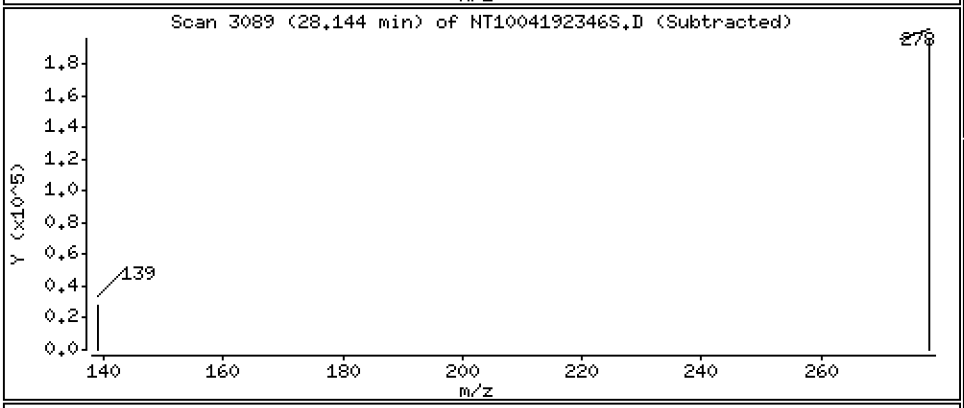
Column diameter: 0.25

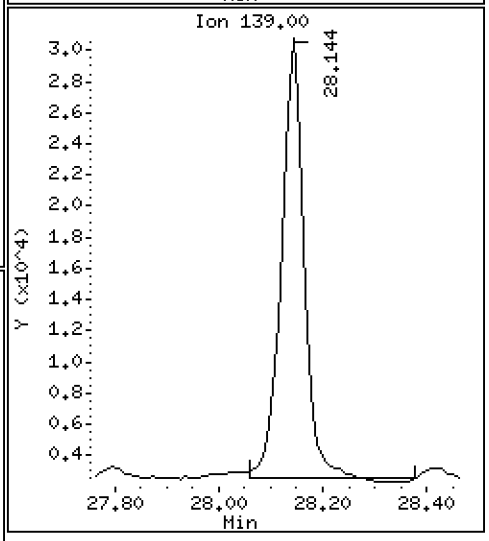
79 Dibenzo(a,h)anthracene

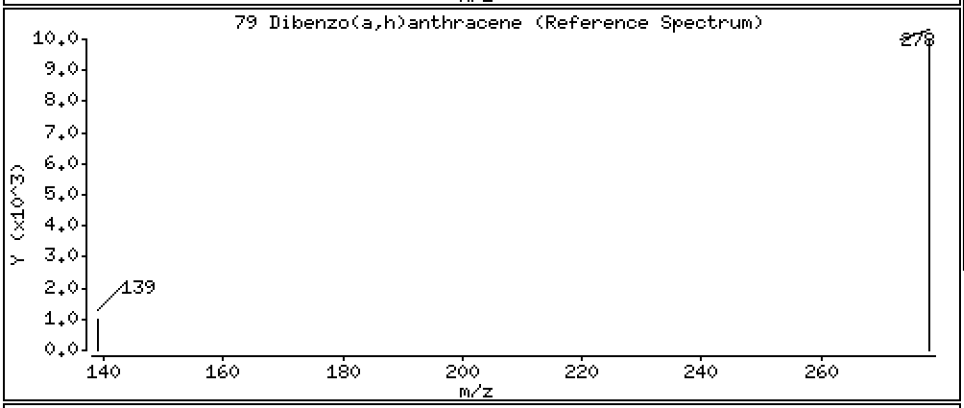
Concentration: 2.906 ug/L

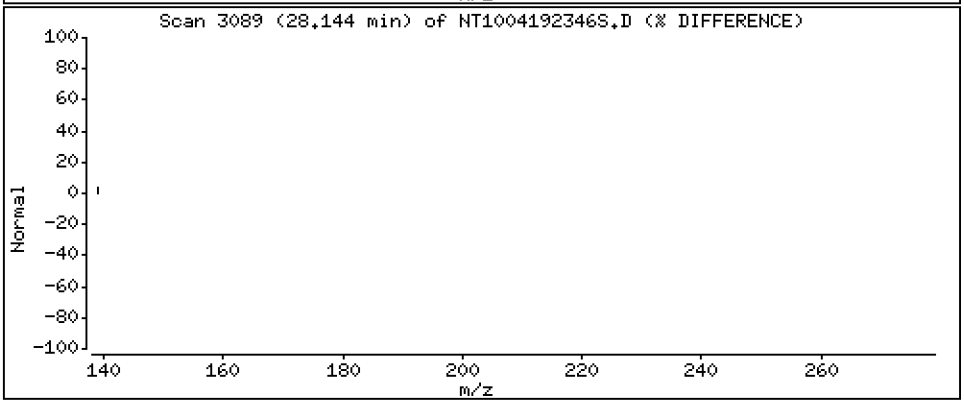












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192346S.D

Date : 20-APR-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-MSD2

Volume Injected (uL): 1.0

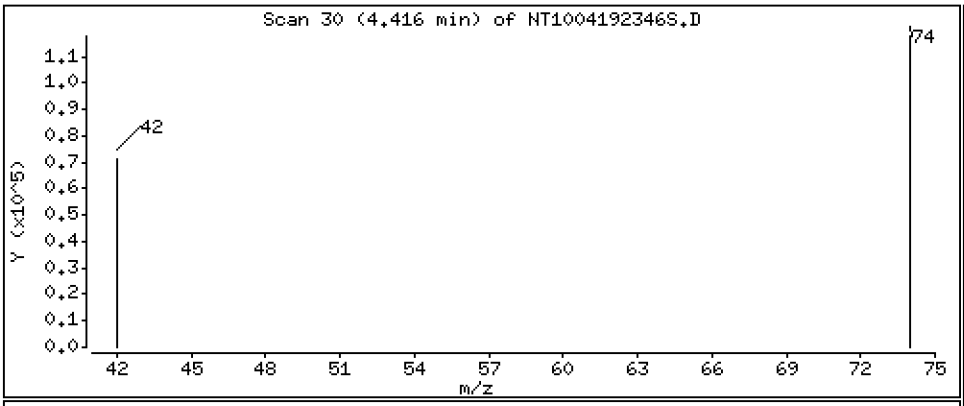
Operator: DSD

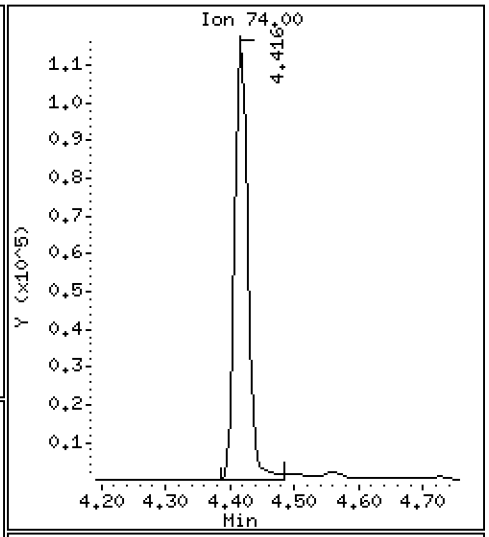
Column phase: ZB-5msi

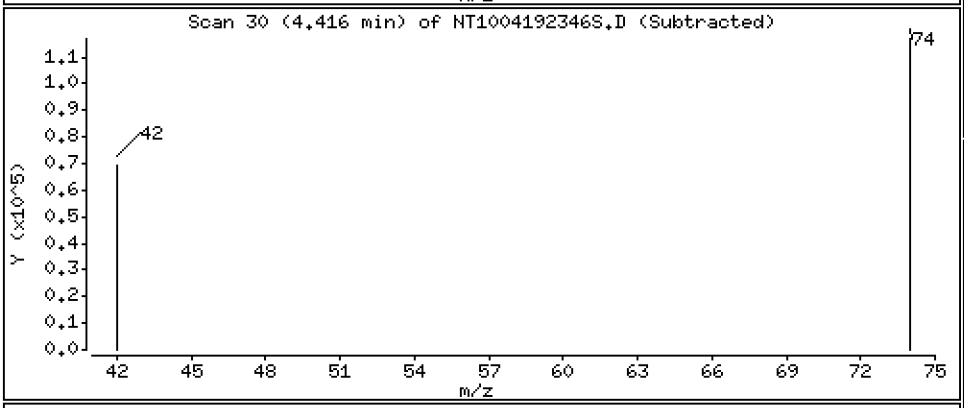
Column diameter: 0.25

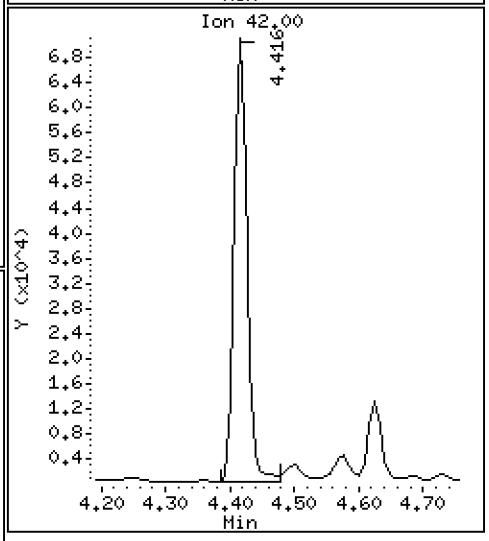
90 N-Nitrosodimethylamine

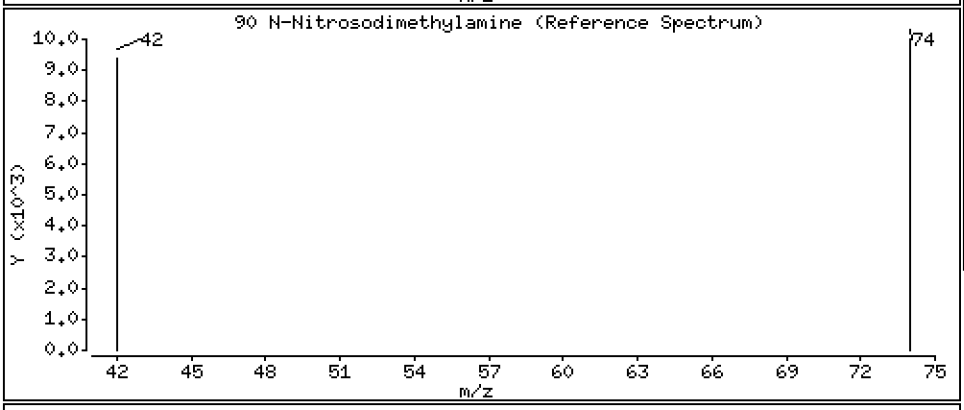
Concentration: 6.166 ug/L

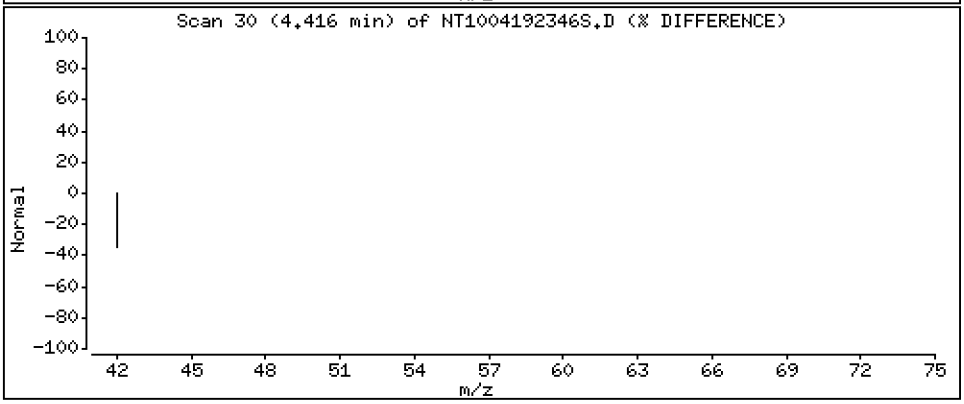












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192346S.D
Lab Smp Id: BLD0008-MSD2
Inj Date : 20-APR-2023 15:56 MS Autotune Date: 16-JAN-2023 17:42
Operator : DSD Inst ID: nt10.i
Smp Info : BLD0008-MSD2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\SIMABN2.m
Meth Date : 21-Apr-2023 13:41 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$	1 2-Fluorophenol	112	6.625	6.617	(0.750)	195913	4.69393	4.694(R)
	3 Phenol	94	8.247	8.240	(0.934)	167388	2.92323	2.923
	7 1,3-Dichlorobenzene	146	8.765	8.766	(0.993)	156092	2.91318	2.913
*	8 1,4-Dichlorobenzene-d4	152	8.827	8.835	(1.000)	137636	4.00000	
	9 1,4-Dichlorobenzene	146	8.858	8.859	(1.004)	156600	3.02764	3.028
	11 Benzyl alcohol	79	9.114	9.115	(1.033)	109748	3.30602	3.306
	12 1,2-Dichlorobenzene	146	9.215	9.216	(1.044)	151668	2.98164	2.982
	13 2-Methylphenol	108	9.355	9.348	(1.060)	115032	2.89922	2.899
	15 4-Methylphenol	108	9.635	9.627	(1.091)	129352	3.13740	3.137
	16 N-Nitroso-di-n-propylamine	70	9.673	9.674	(1.096)	88933	3.05011	3.050
	22 2,4-Dimethylphenol	107	10.664	10.656	(0.943)	262602	6.10136	6.101
	24 Benzoic acid	105	10.843	10.809	(0.959)	204352	8.39362	8.394
	26 1,2,4-Trichlorobenzene	180	11.234	11.227	(0.993)	141339	3.26441	3.264
*	27 Naphthalene-d8	136	11.312	11.312	(1.000)	497931	4.00000	
	30 Hexachlorobutadiene	225	11.721	11.721	(1.036)	92306	3.50660	3.507
	39 Dimethylphthalate	163	14.445	14.446	(0.968)	306927	3.66492	3.665
*	42 Acenaphthene-d10	162	14.917	14.918	(1.000)	265384	4.00000	
	50 Diethylphthalate	149	15.907	15.900	(1.066)	355650	4.09931	4.099
	54 N-Nitrosodiphenylamine	169	16.285	16.278	(0.907)	227301	3.28812	3.288
	57 Hexachlorobenzene	284	17.335	17.327	(0.966)	117128	3.78495	3.785

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.699	17.699	(0.986)	210599	11.4657	11.47
*	59 Phenanthrene-d10	188	17.954	17.947	(1.000)	515234	4.00000	
$	66 Terphenyl-d14	244	21.149	21.142	(0.917)	287271	3.32767	3.328(R)
	67 Butylbenzylphthalate	149	22.094	22.094	(0.958)	271915	3.74014	3.740
*	69 Chrysene-d12	240	23.054	23.047	(1.000)	529829	4.00000	
*	77 Perylene-d12	264	25.609	25.594	(1.000)	626632	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.144	28.113	(1.099)	587815	2.90621	2.906
	90 N-Nitrosodimethylamine	74	4.416	4.408	(0.500)	163219	6.16586	6.166

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192346S.D
Lab Smp Id: BLD0008-MSD2
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\SIMABN2.m
Misc Info:

Calibration Date: 20-APR-2023
Calibration Time: 08:57
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	128281	64141	256562	137636	7.29
27 Naphthalene-d8	458707	229354	917414	497931	8.55
42 Acenaphthene-d10	243296	121648	486592	265384	9.08
59 Phenanthrene-d10	433853	216927	867706	515234	18.76
69 Chrysene-d12	435413	217707	870826	529829	21.68
77 Perylene-d12	490854	245427	981708	626632	27.66

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.84	8.34	9.34	8.83	-0.09
27 Naphthalene-d8	11.31	10.81	11.81	11.31	-0.00
42 Acenaphthene-d10	14.92	14.42	15.42	14.92	-0.00
59 Phenanthrene-d10	17.95	17.45	18.45	17.95	0.04
69 Chrysene-d12	23.05	22.55	23.55	23.05	0.03
77 Perylene-d12	25.59	25.09	26.09	25.61	0.06

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

REVIEW SUMMARY FOR FILE - NT1004192346S.D

Lab ID: BLD0008-MSD2
nt10.i, 20230419B.b\20230419B.b\SIMABN2.m,   20-APR-2023 15:56

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230419B.b/NT1004192335S.D

On Column LOD for nt10.i, 20230419B.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BLD0008-SRM2
Batch: BLD0008
Initial/Final: 1 g / 1 mL
Preparation: EPA 3546 (Microwave)
Analyzed: 04/20/2023 12:07
Standard ID: K003477
Expires: 01/31/2024
Standard Lot#: CRM 143 (LRAC8918)
Description: CRM 143 BNAs - Sandy Loam

ANALYTE	TRUE (ug/kg wet)	FOUND (ug/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
2,4-Dimethylphenol	6357.0	555	21.7	200		8.72	0 - 220
1,2,4-Trichlorobenzene	1477.0	1070	26.8	50.0		72.8	10 - 193
N-Nitrosodiphenylamine	2854.0	1890	13.1	50.0		66.4	40 - 160
Pentachlorophenol	3411.0	2770	21.3	200		81.3	10 - 206

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT10041923405.D

Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

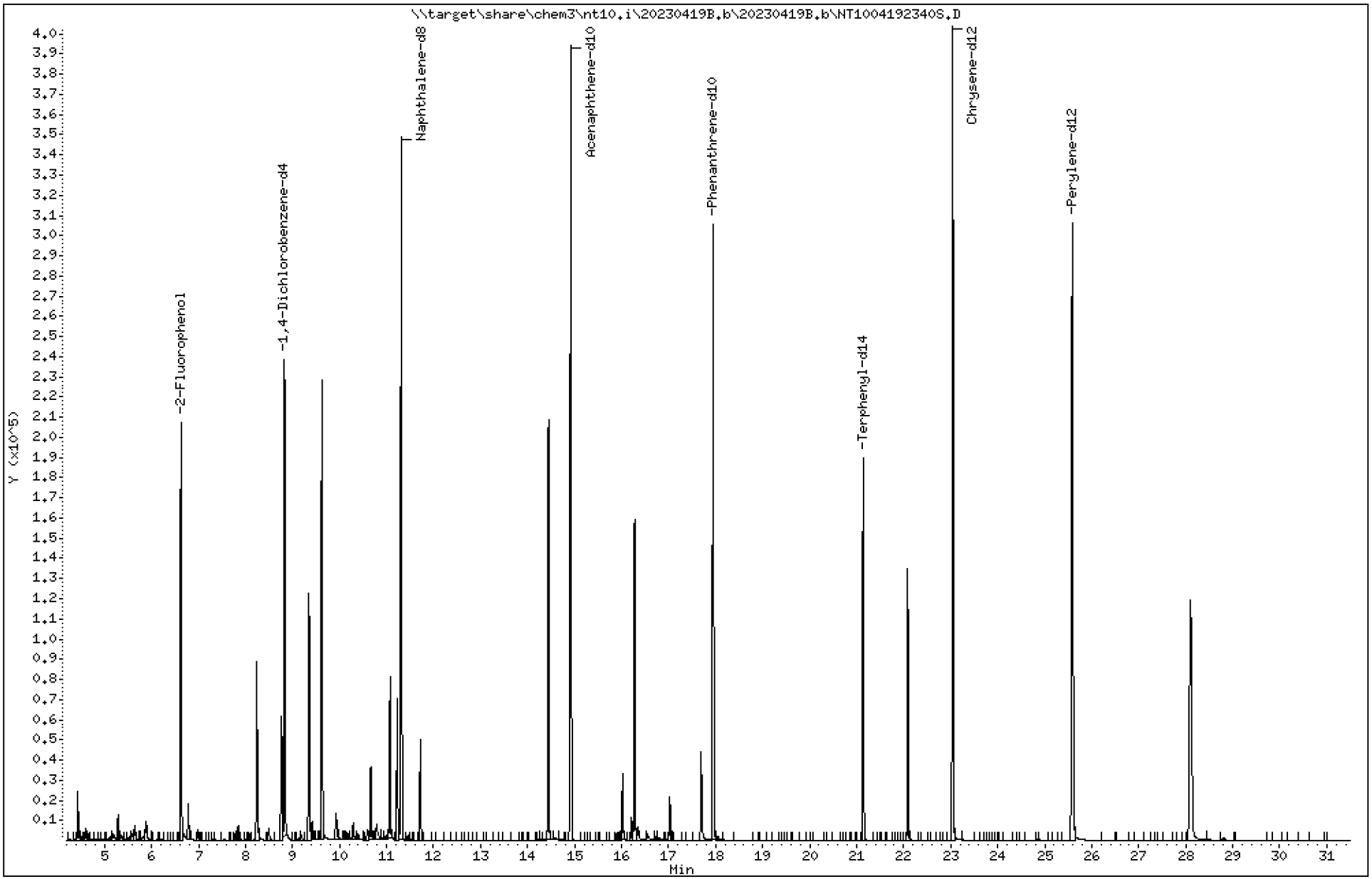
Sample Info: BLD0008-SRM2

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192340S.D

Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM2

Volume Injected (uL): 1.0

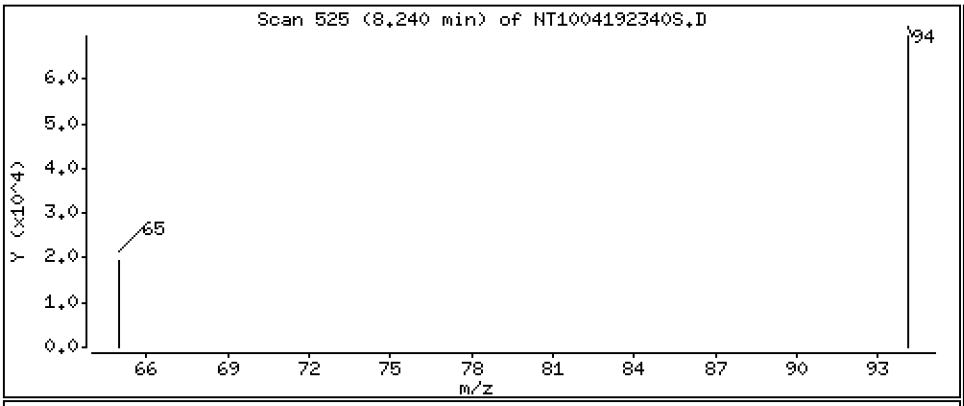
Operator: DSD

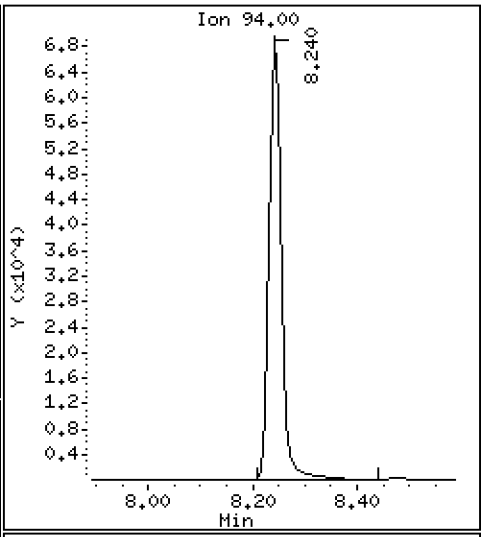
Column phase: ZB-5msi

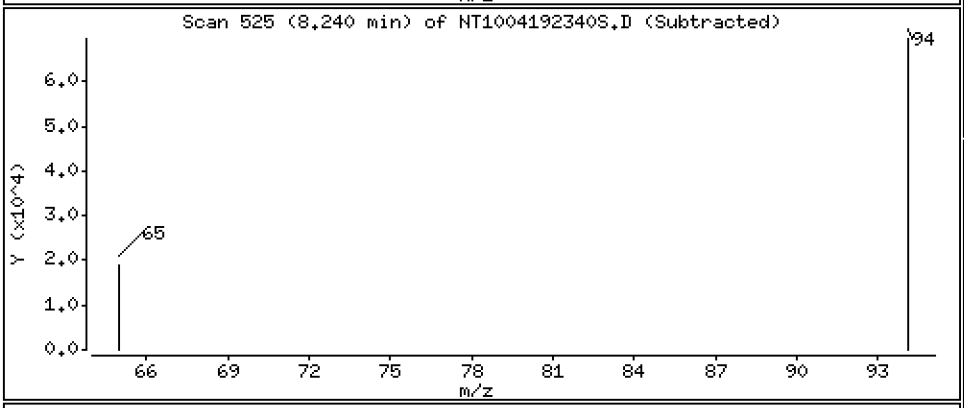
Column diameter: 0.25

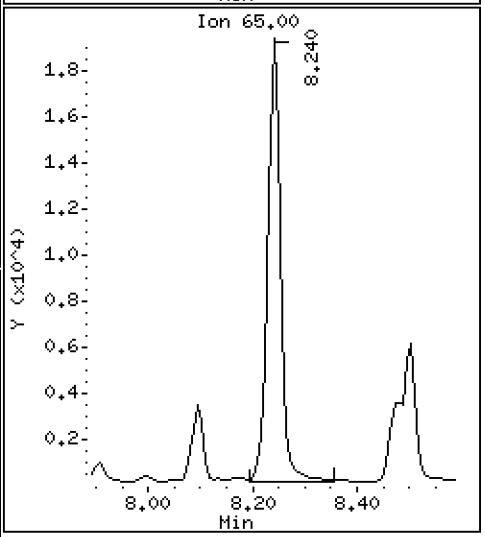
3 Phenol

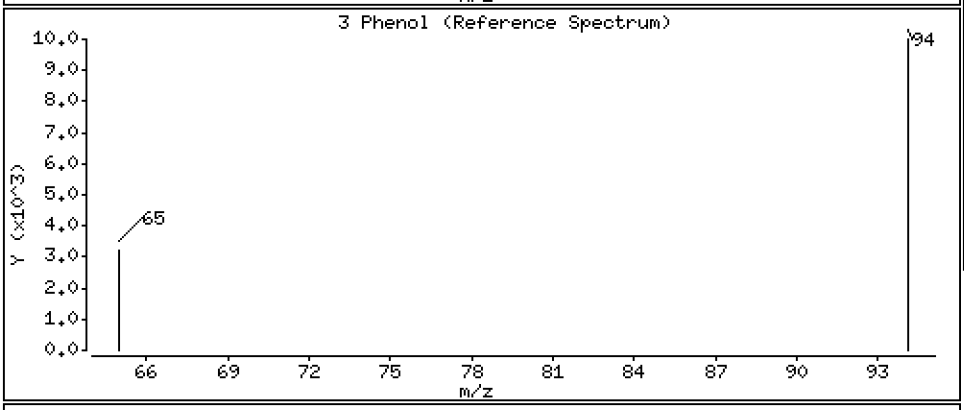
Concentration: 1.738 ug/L

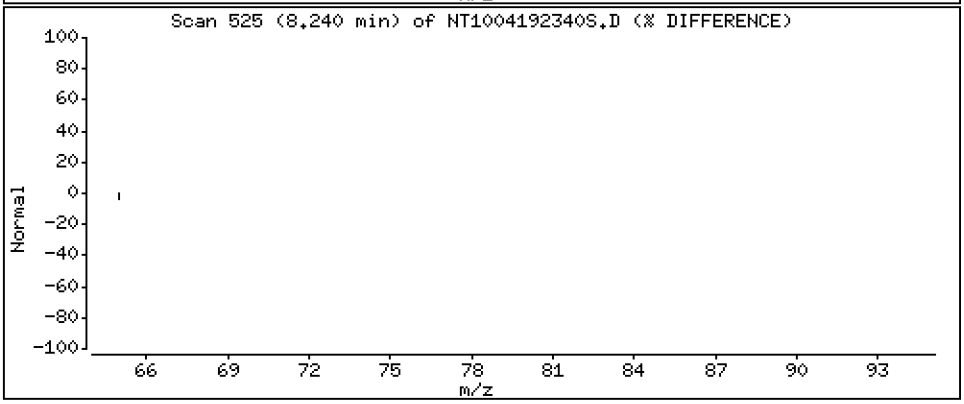












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192340S.D

Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM2

Volume Injected (uL): 1.0

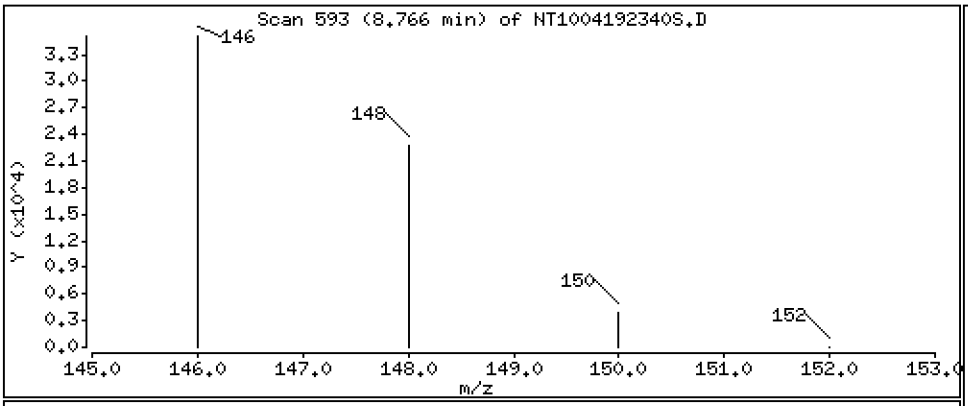
Operator: DSD

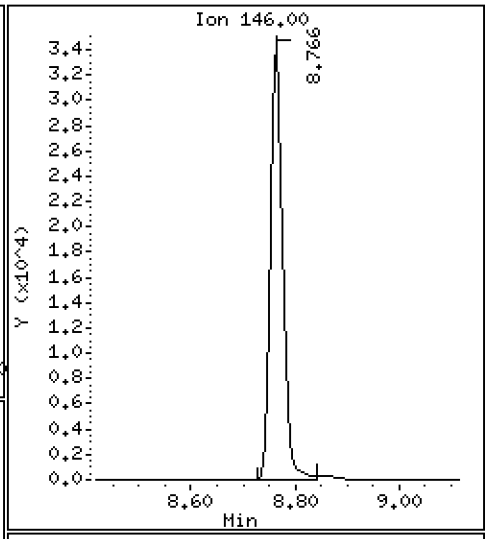
Column phase: ZB-5msi

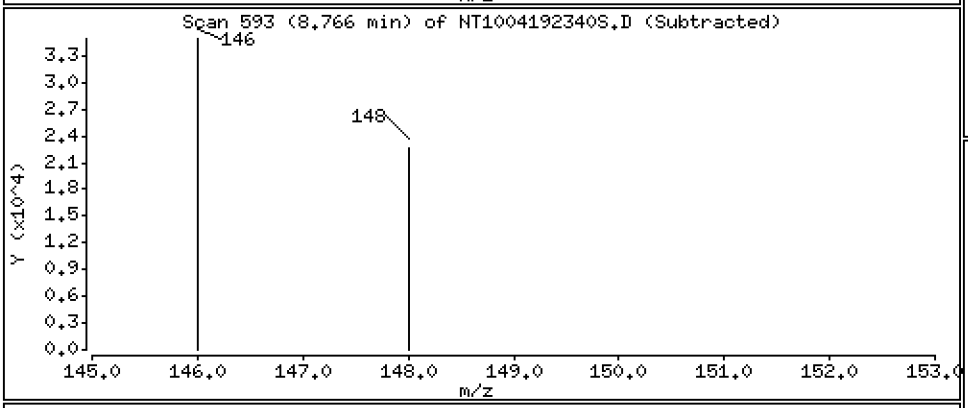
Column diameter: 0.25

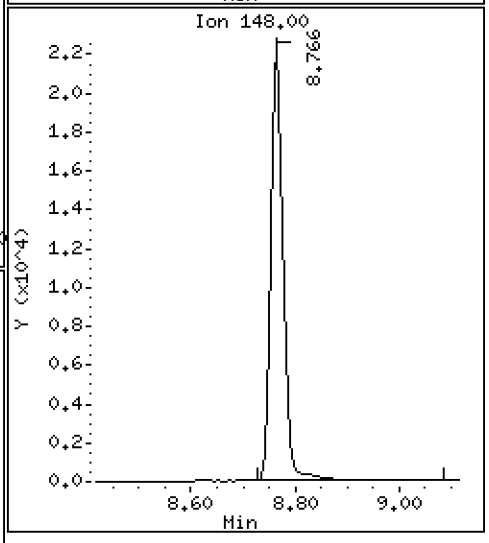
7 1,3-Dichlorobenzene

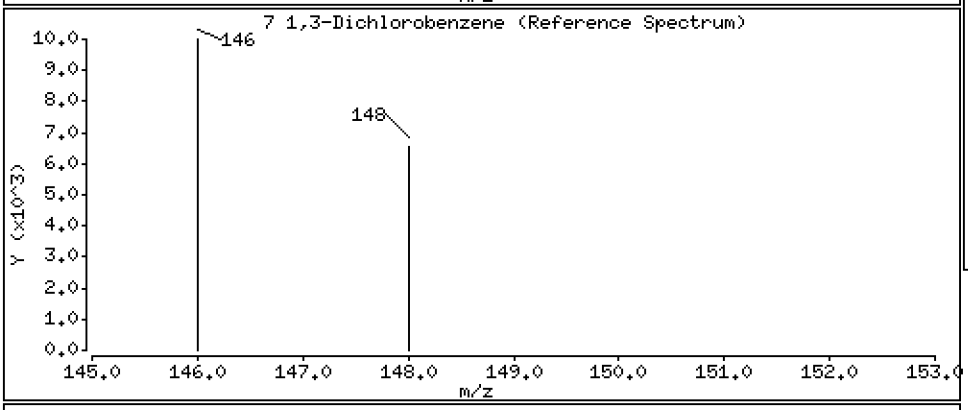
Concentration: 0.9617 ug/L

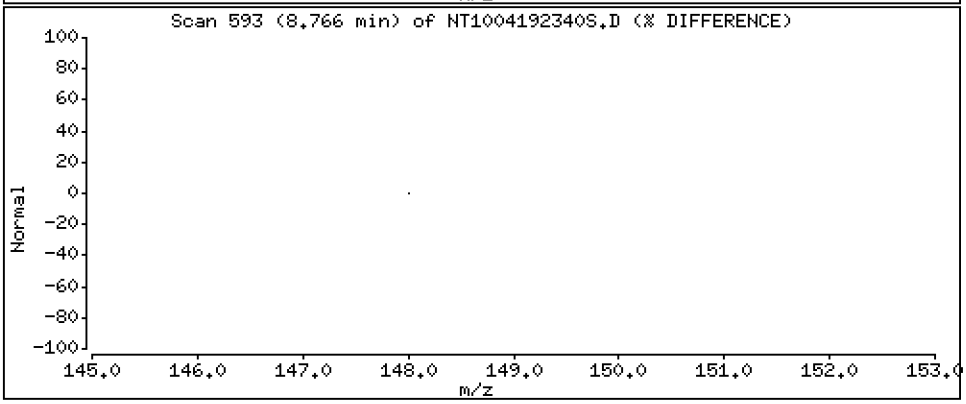












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192340S.D

Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM2

Volume Injected (uL): 1.0

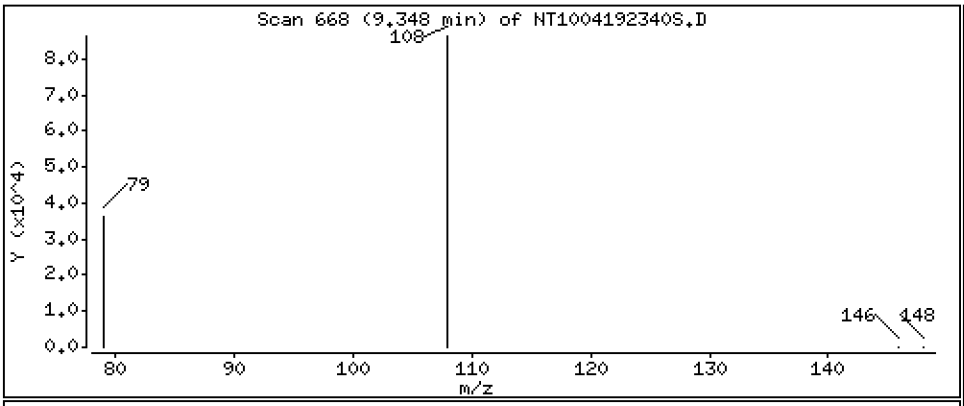
Operator: DSD

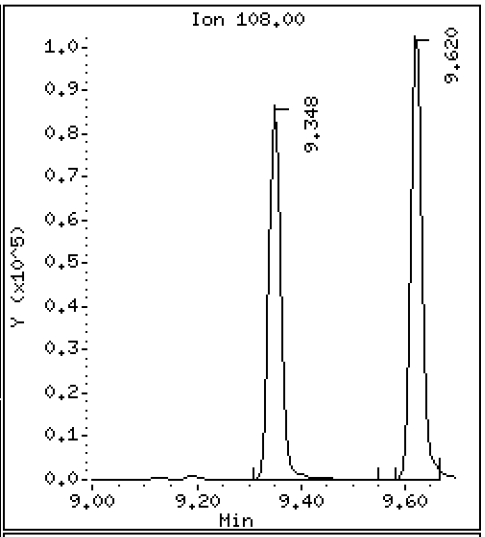
Column phase: ZB-5msi

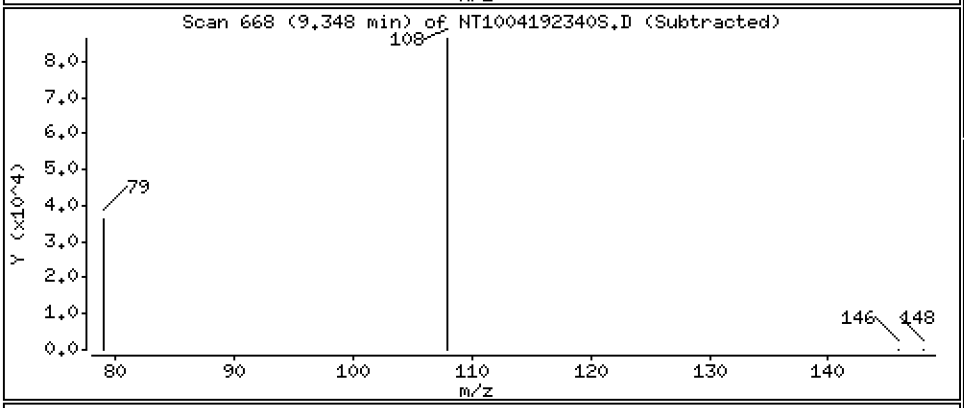
Column diameter: 0.25

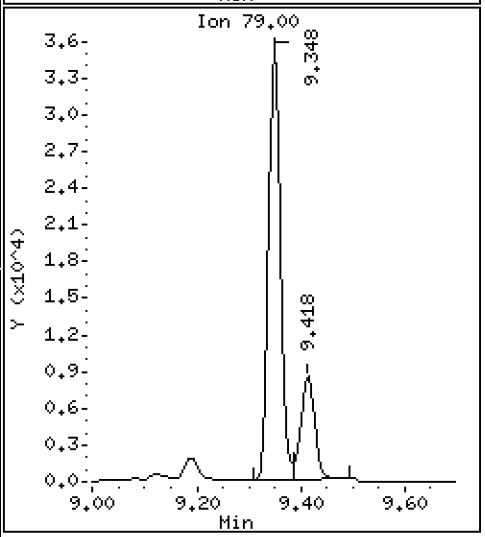
13 2-Methylphenol

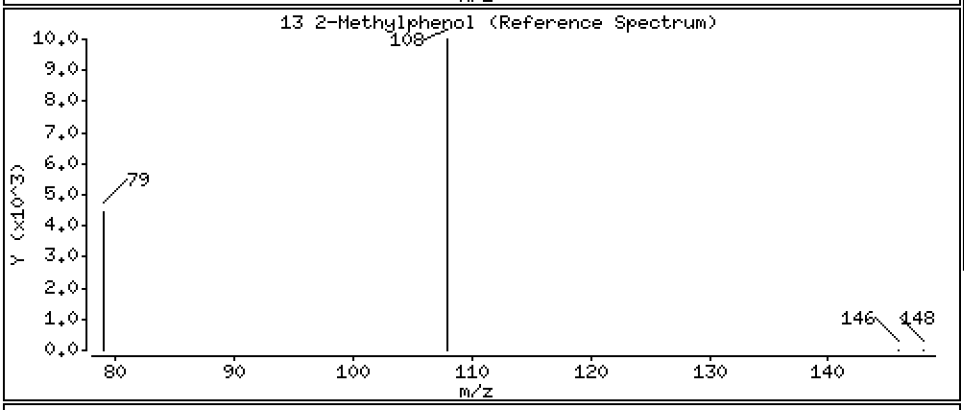
Concentration: 3.082 ug/L

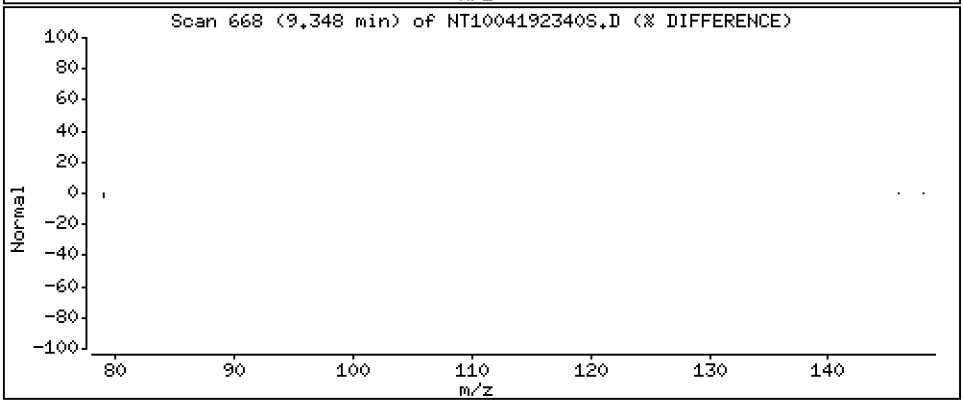












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192340S.D

Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM2

Volume Injected (uL): 1.0

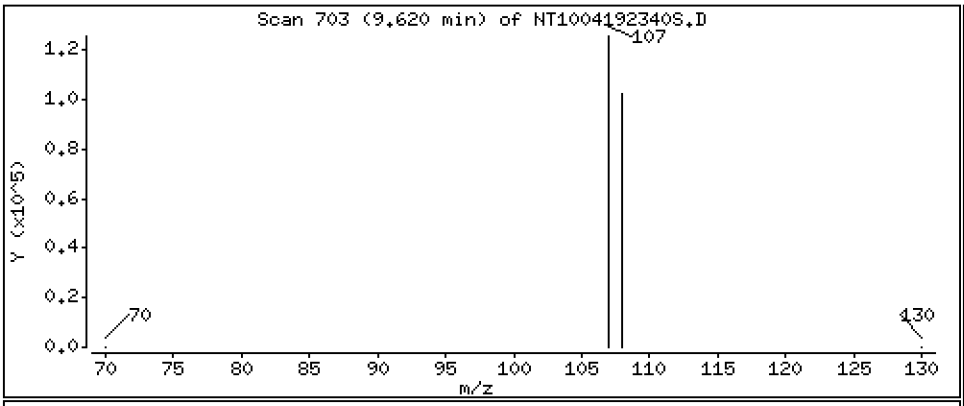
Operator: DSD

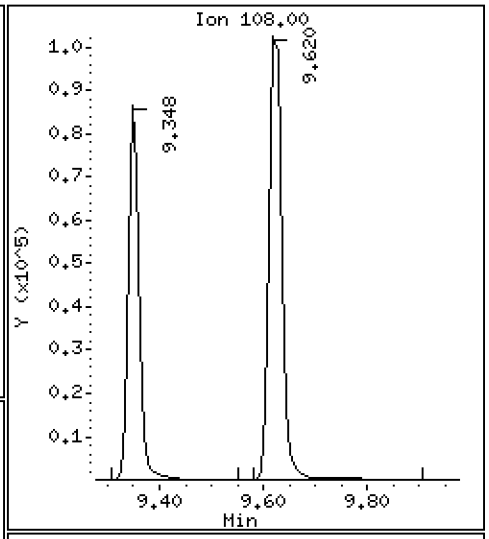
Column phase: ZB-5msi

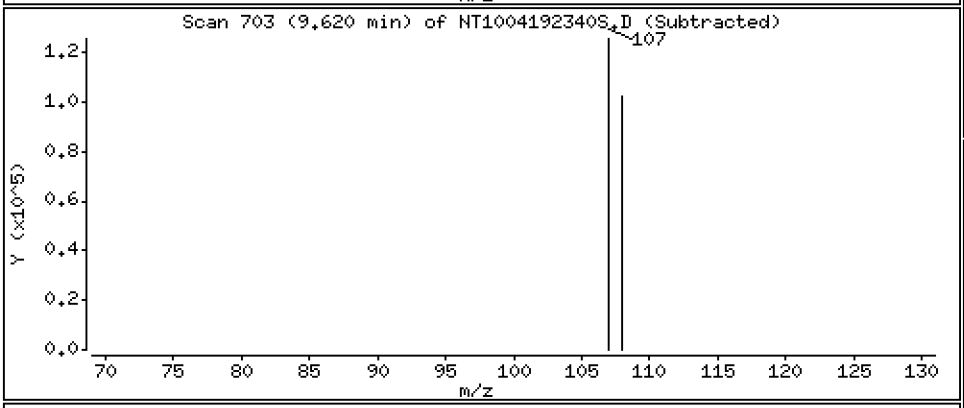
Column diameter: 0.25

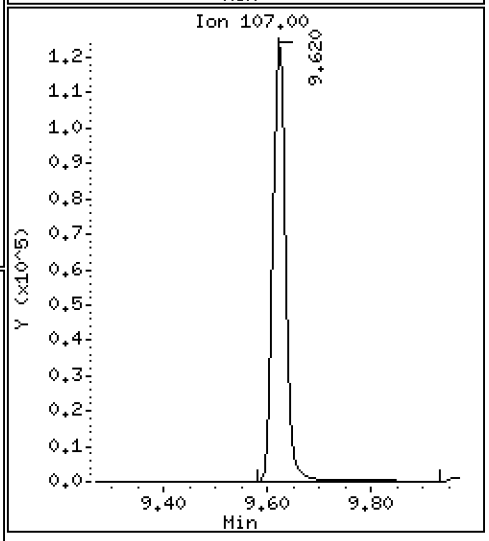
15 4-Methylphenol

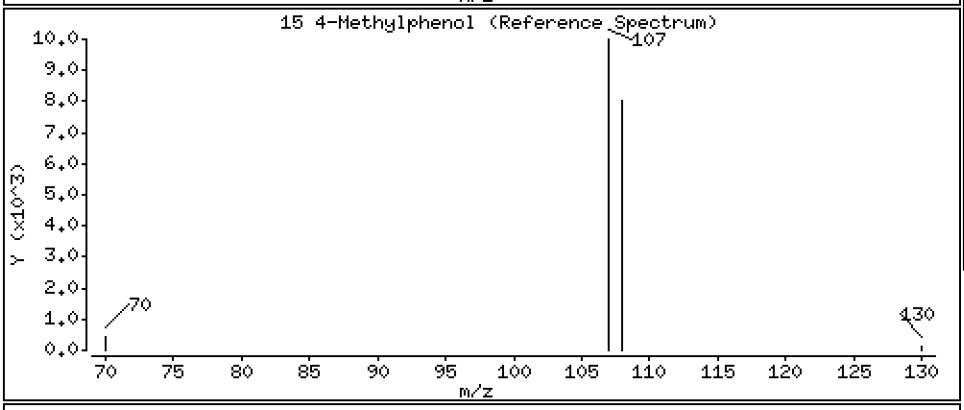
Concentration: 3.769 ug/L

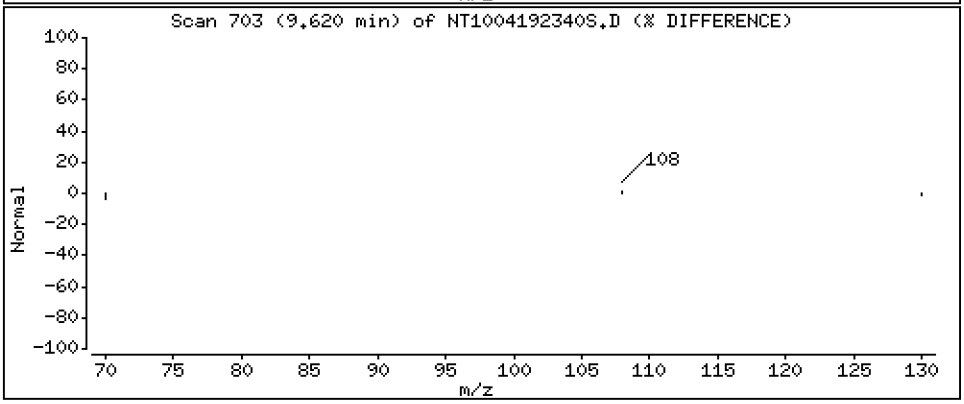












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM2

Volume Injected (uL): 1.0

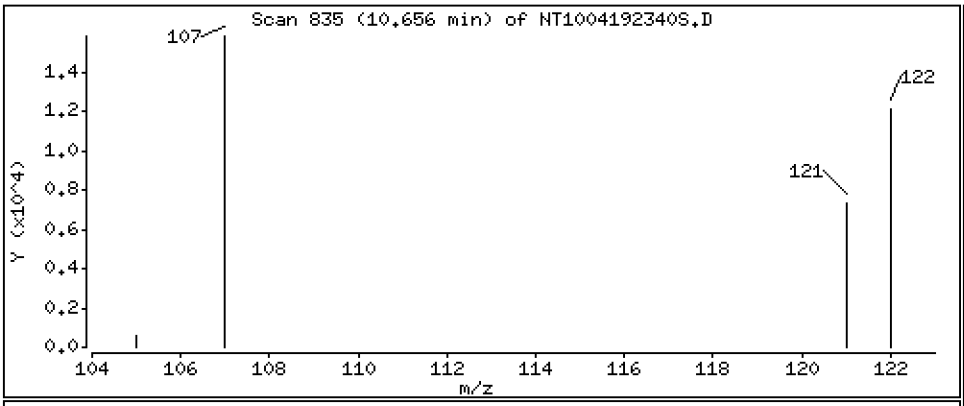
Operator: DSD

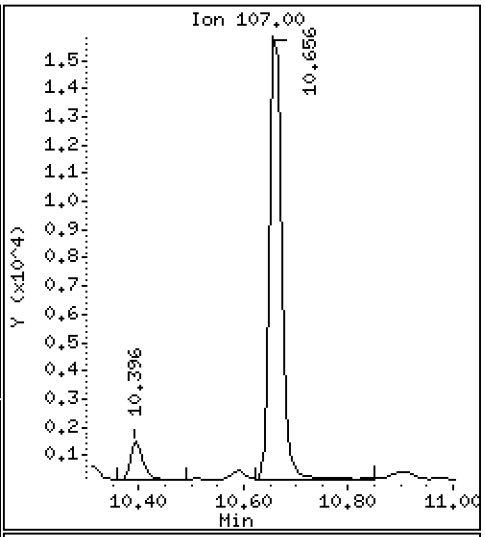
Column phase: ZB-5msi

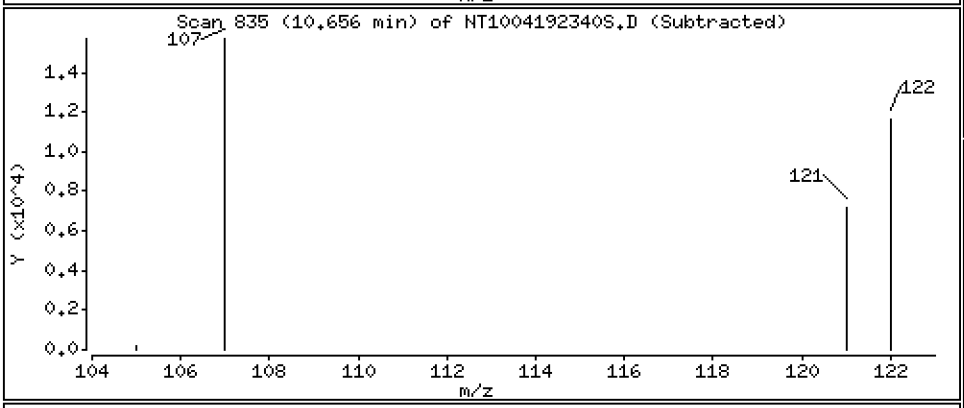
Column diameter: 0.25

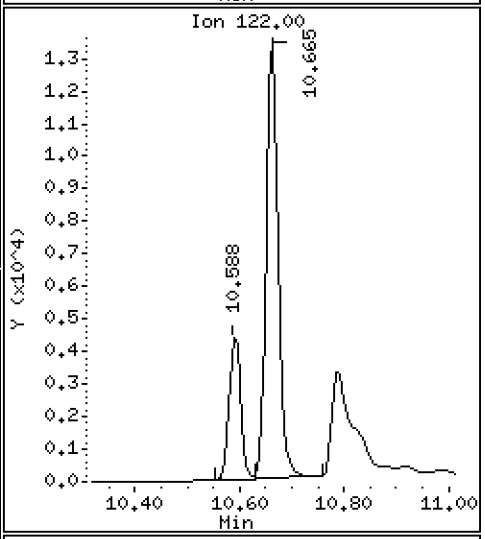
22 2,4-Dimethylphenol

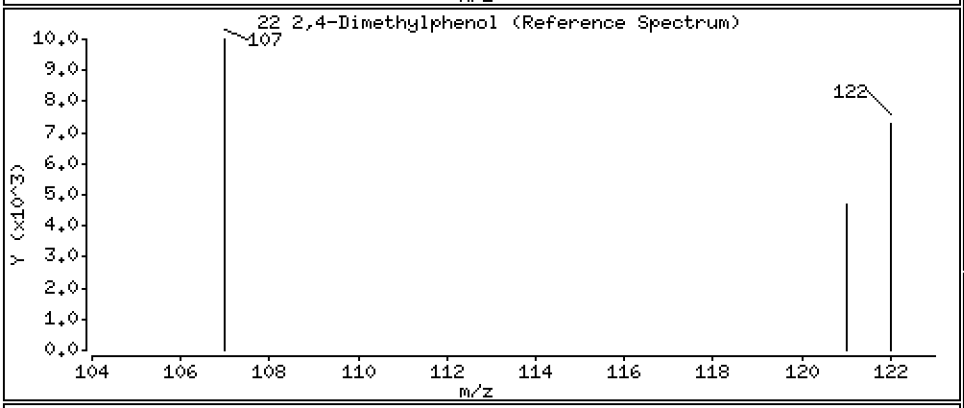
Concentration: 0.5545 ug/L

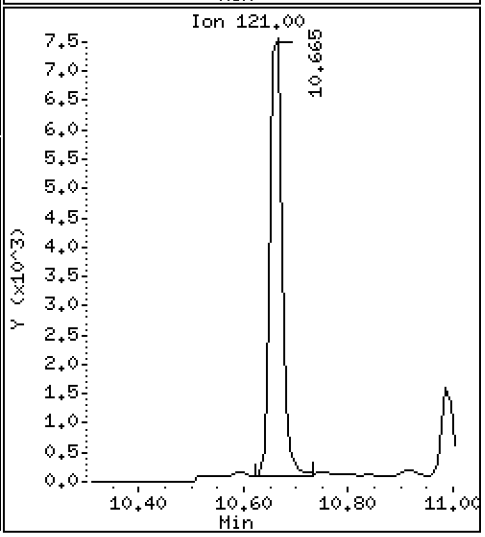


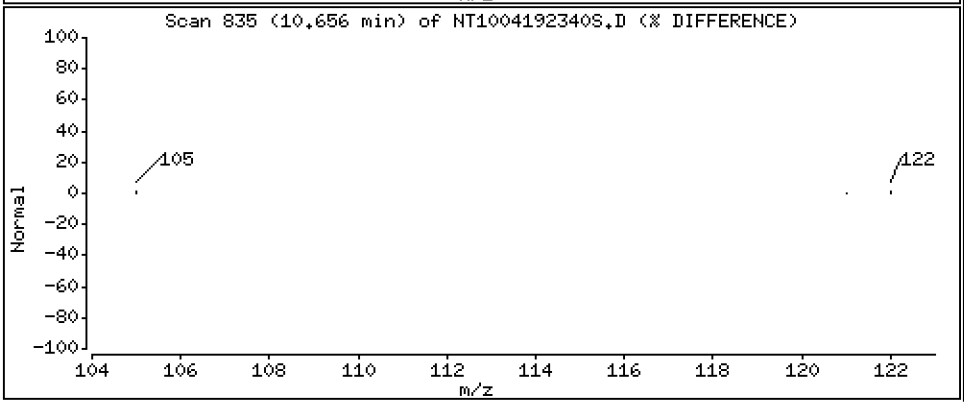












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM2

Volume Injected (uL): 1.0

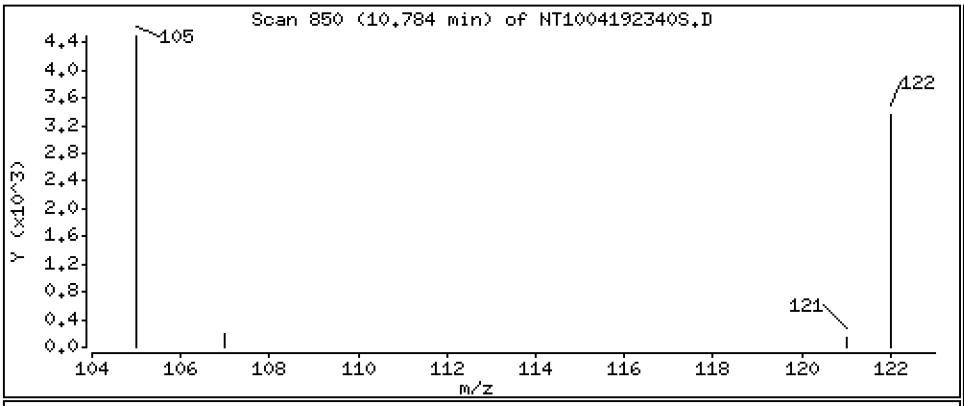
Operator: DSD

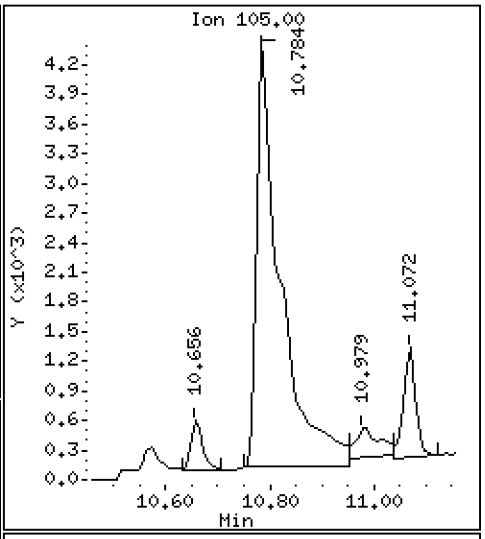
Column phase: ZB-5msi

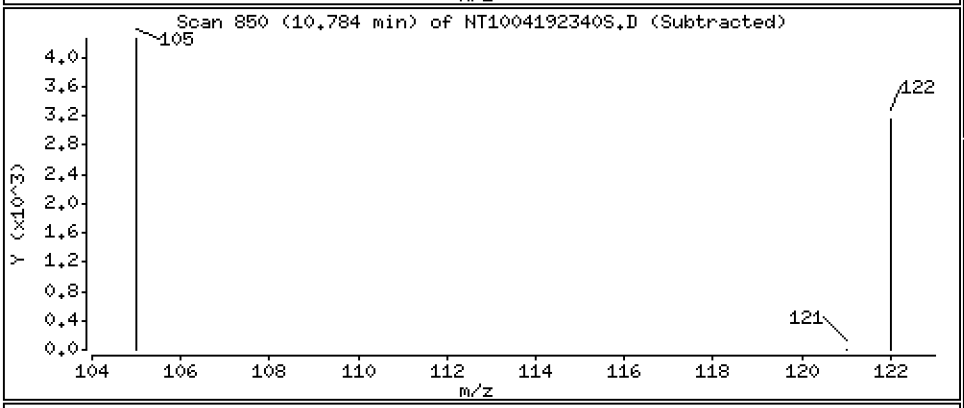
Column diameter: 0.25

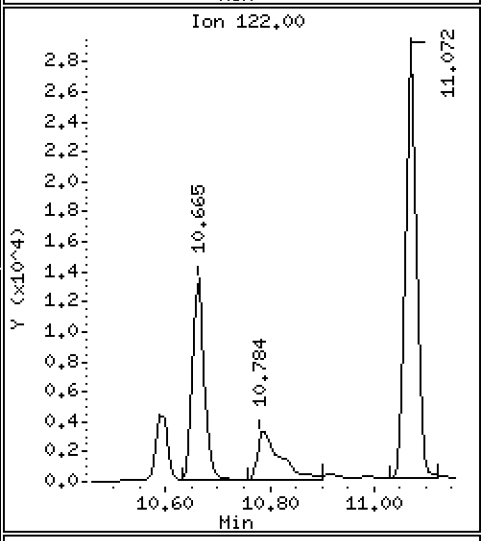
24 Benzoic acid

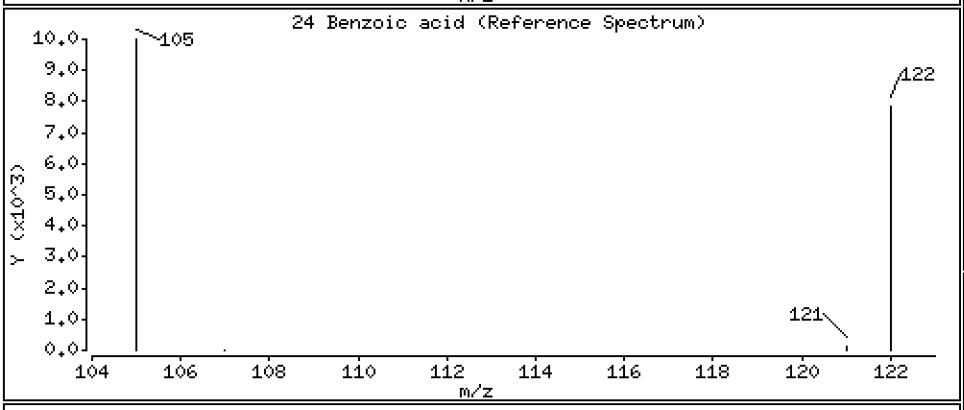
Concentration: 0.5357 ug/L

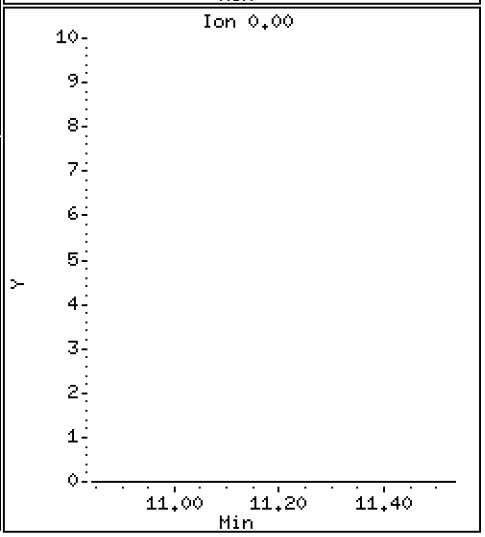


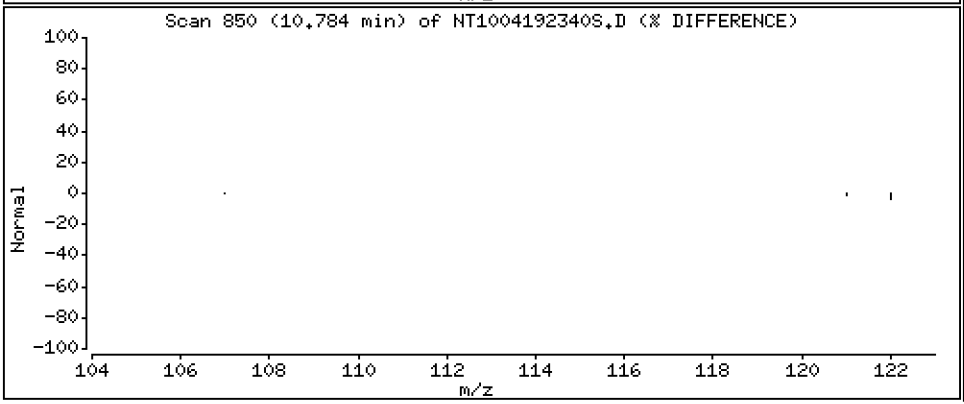












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM2

Volume Injected (uL): 1.0

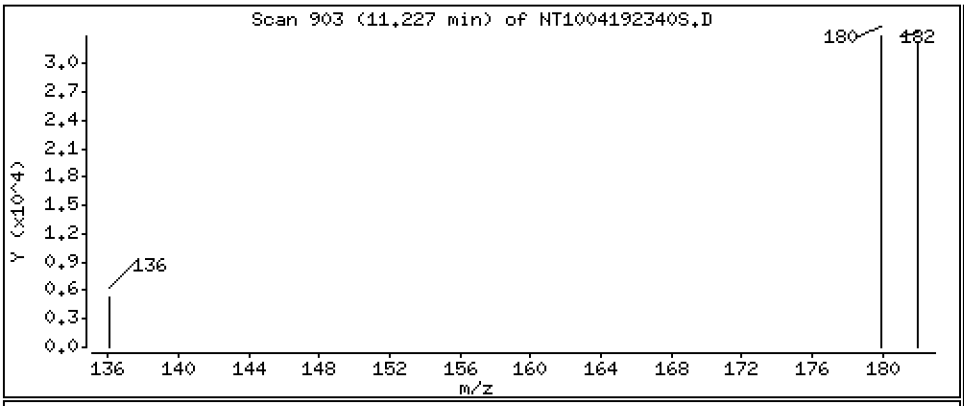
Operator: DSD

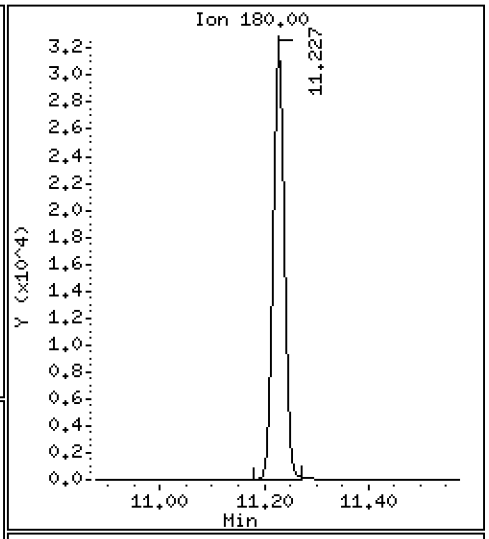
Column phase: ZB-5msi

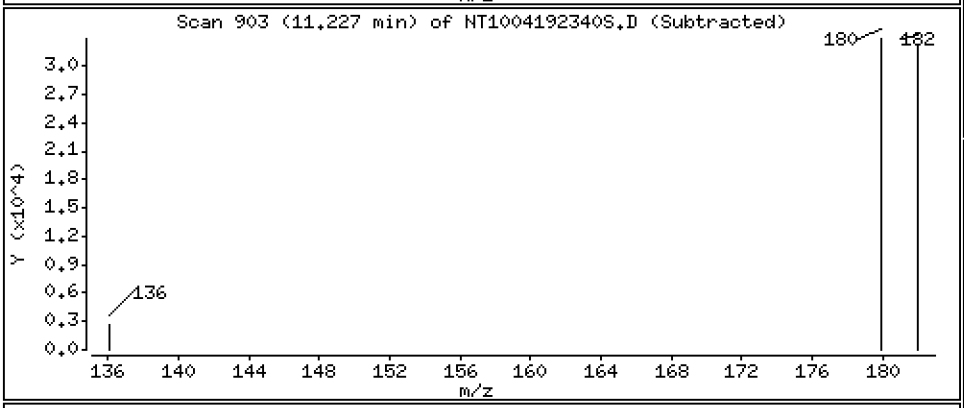
Column diameter: 0.25

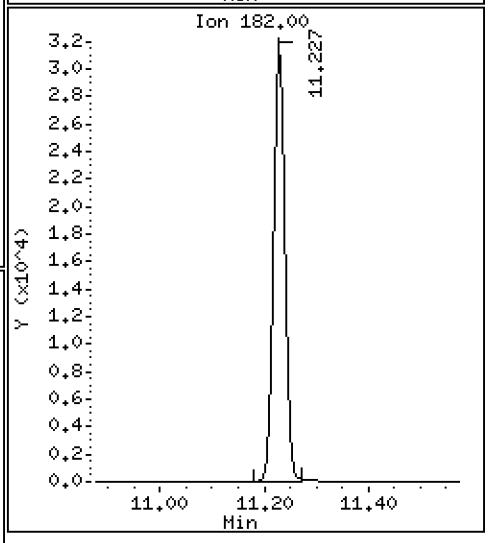
26 1,2,4-Trichlorobenzene

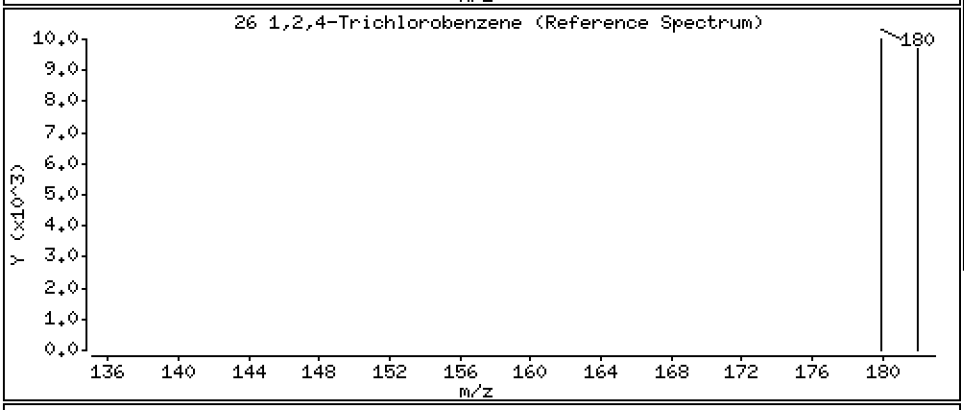
Concentration: 1.075 ug/L

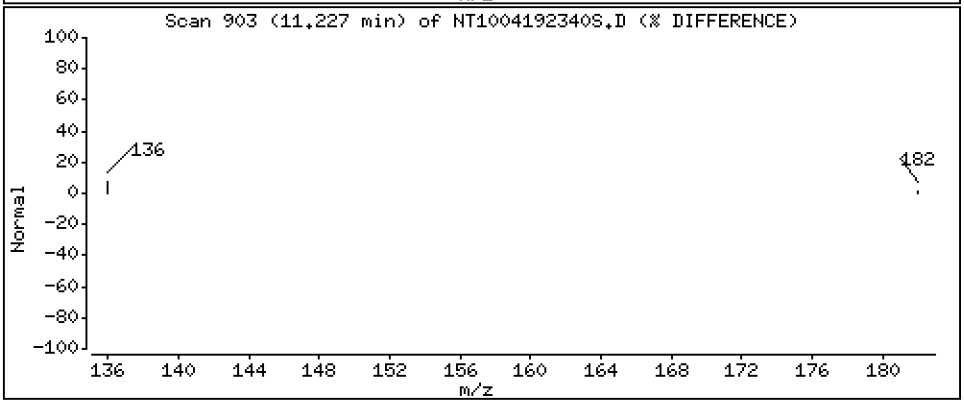












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM2

Volume Injected (uL): 1.0

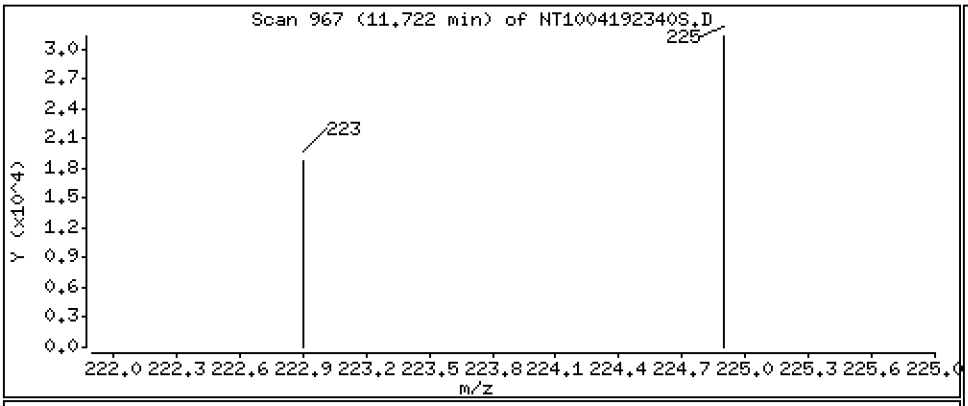
Operator: DSD

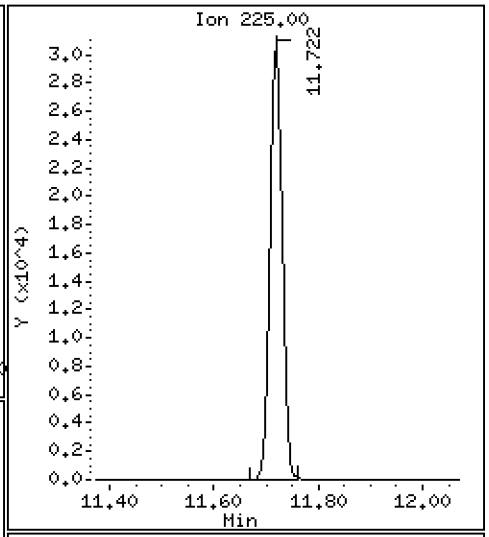
Column phase: ZB-5msi

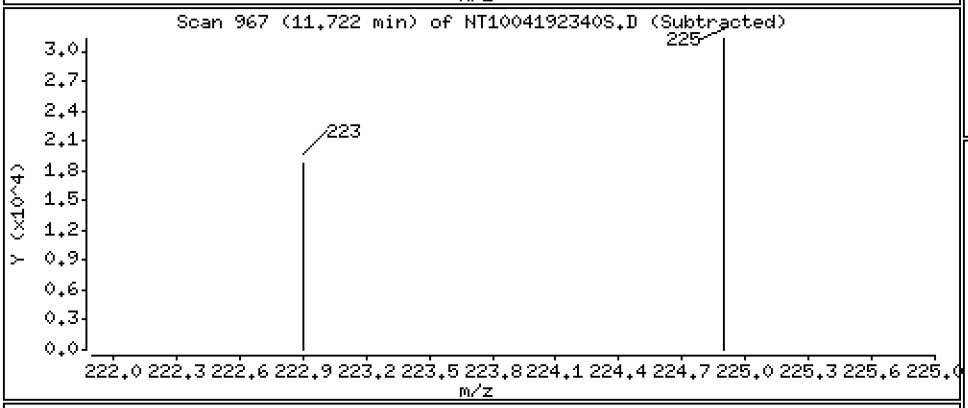
Column diameter: 0.25

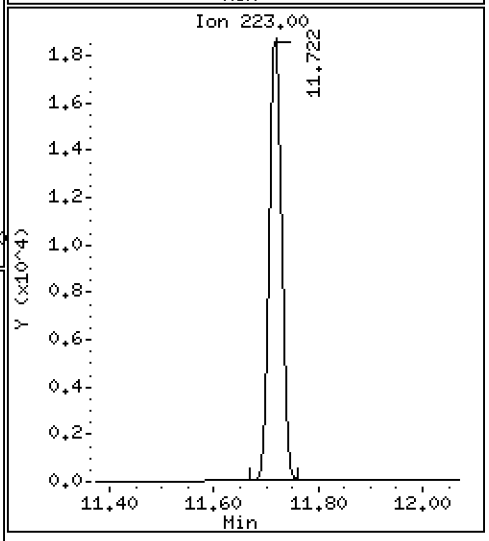
30 Hexachlorobutadiene

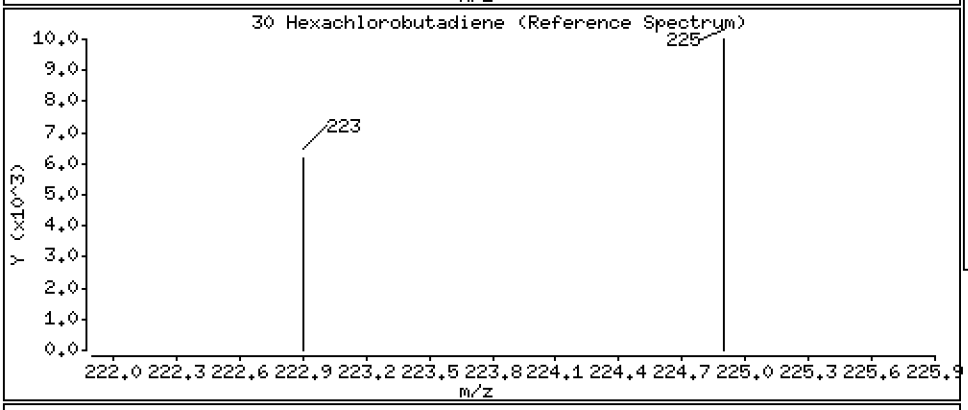
Concentration: 1.650 ug/L

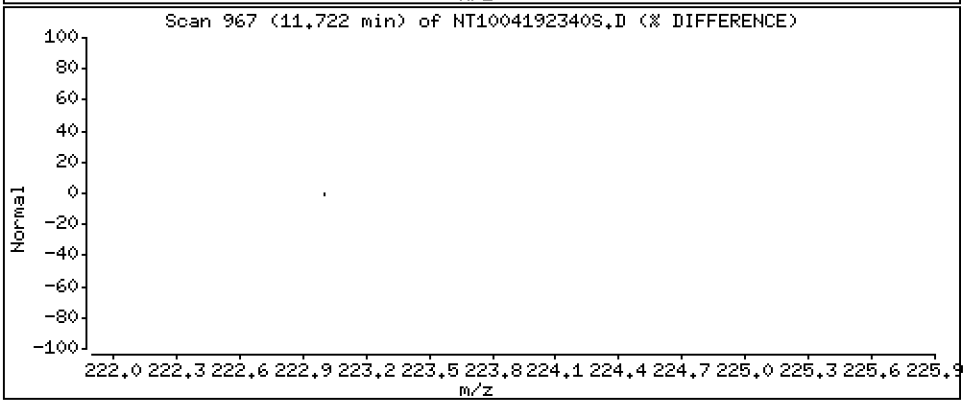












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM2

Volume Injected (uL): 1.0

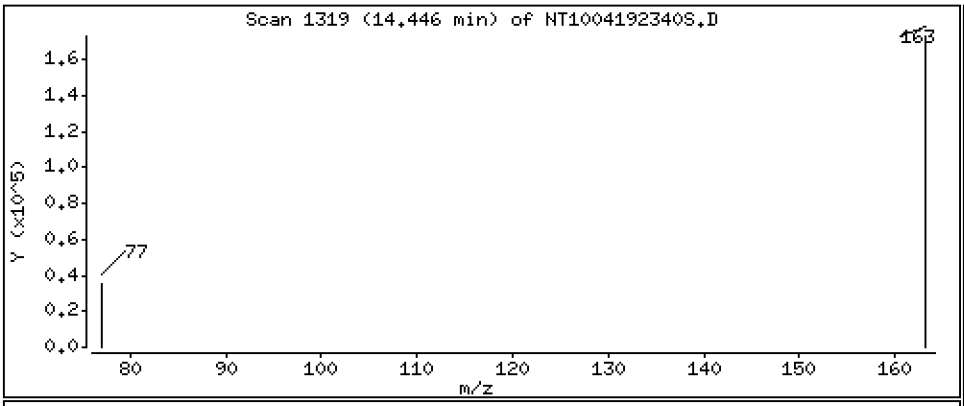
Operator: DSD

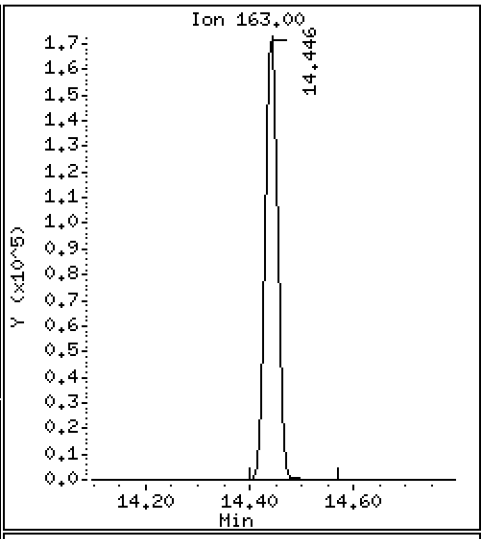
Column phase: ZB-5msi

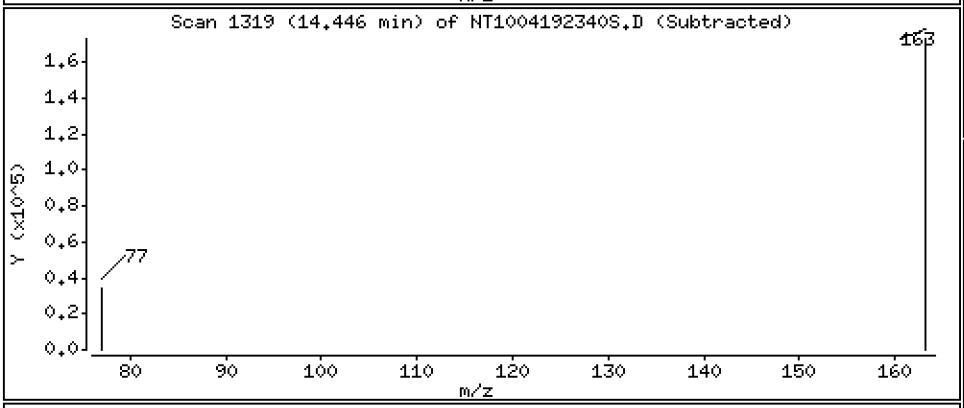
Column diameter: 0.25

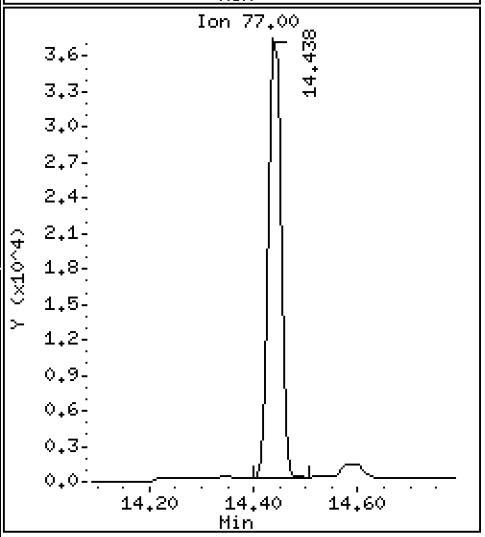
39 Dimethylphthalate

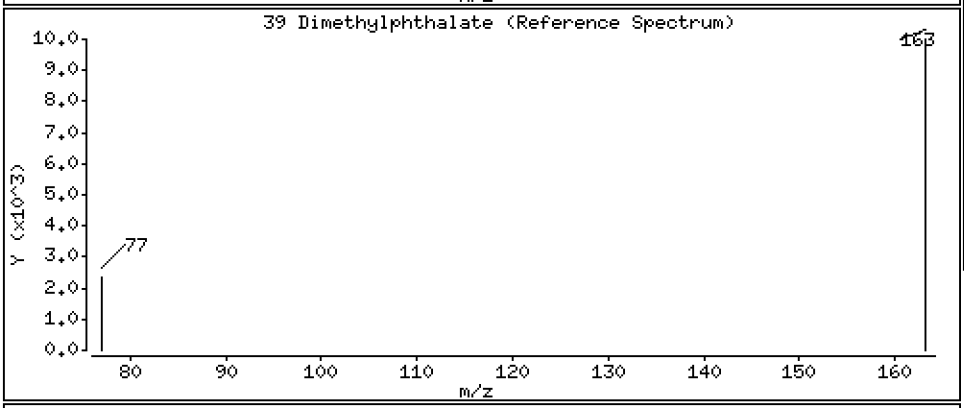
Concentration: 2.981 ug/L

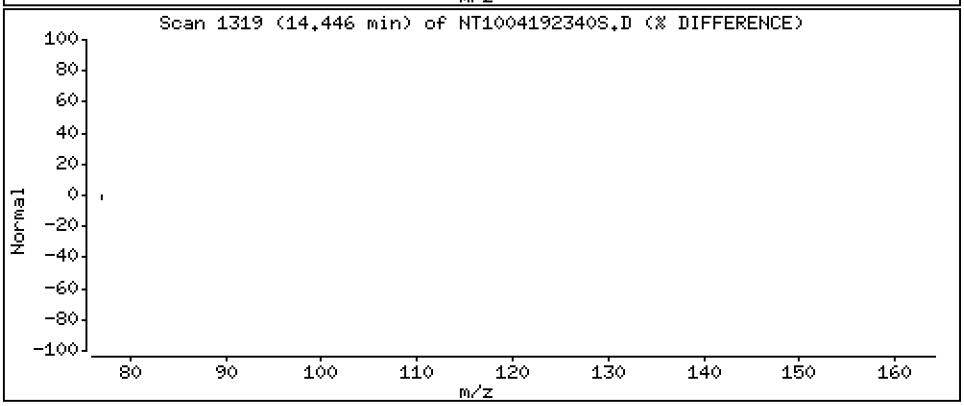












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Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM2

Volume Injected (uL): 1.0

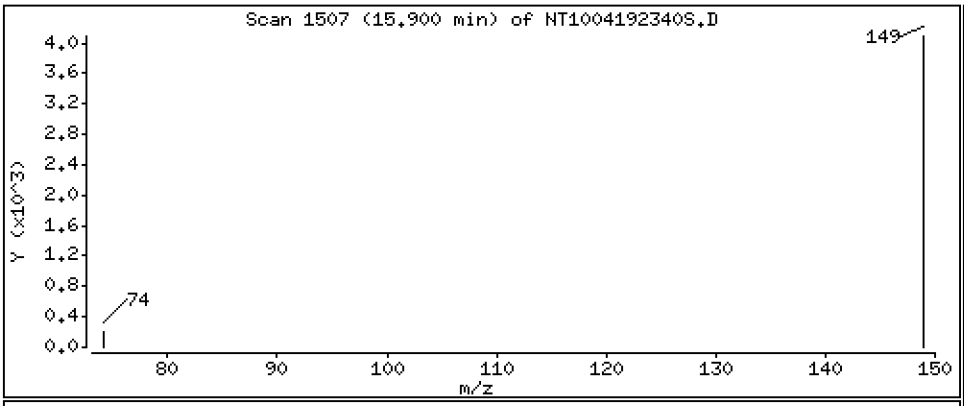
Operator: DSD

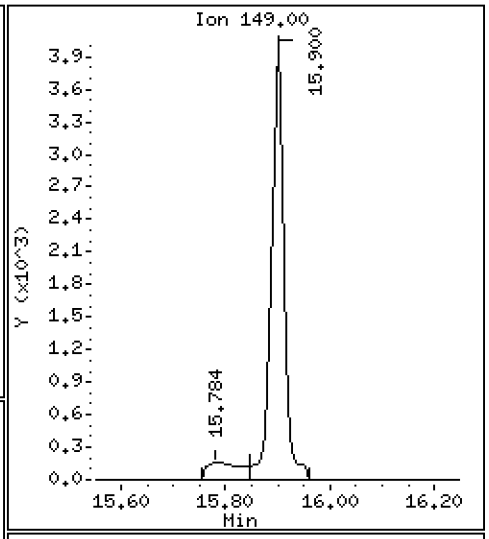
Column phase: ZB-5msi

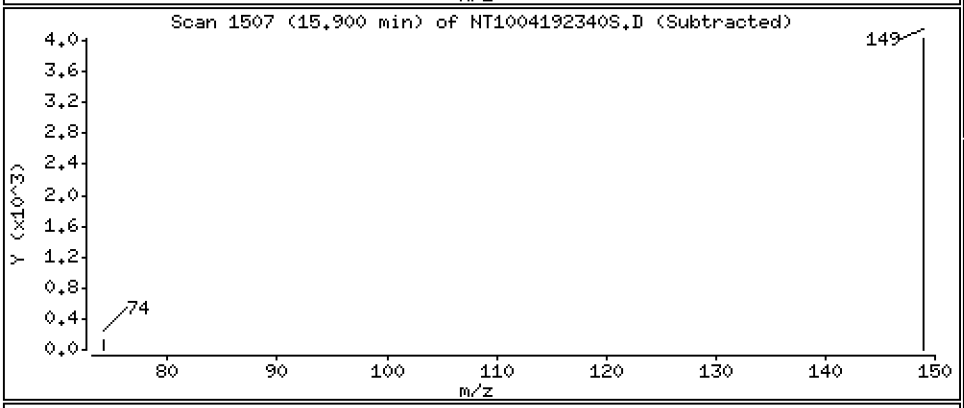
Column diameter: 0.25

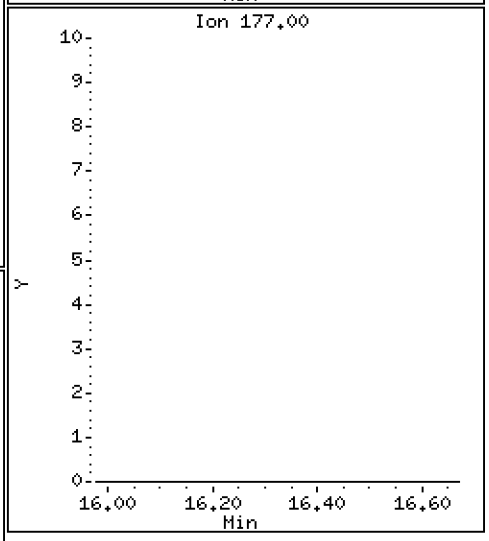
50 Diethylphthalate

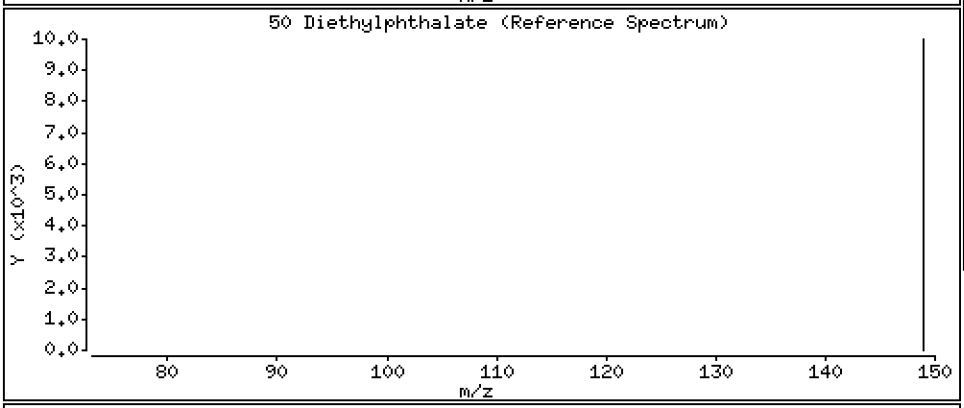
Concentration: 0.06931 ug/L

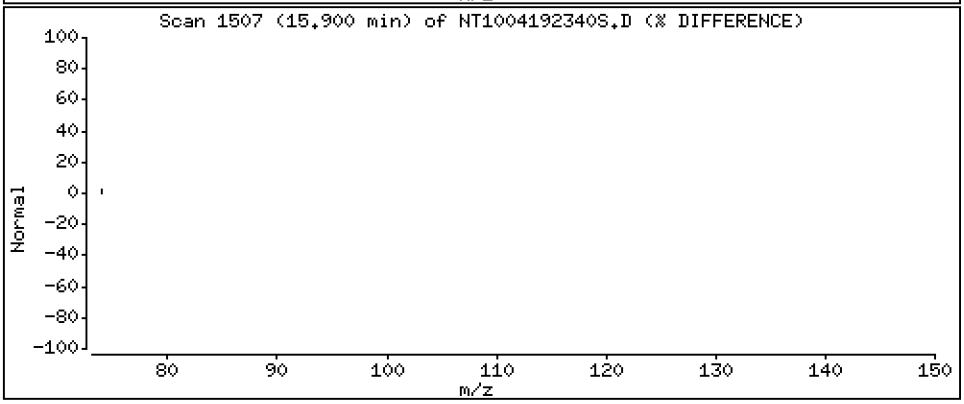












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192340S.D

Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM2

Volume Injected (uL): 1.0

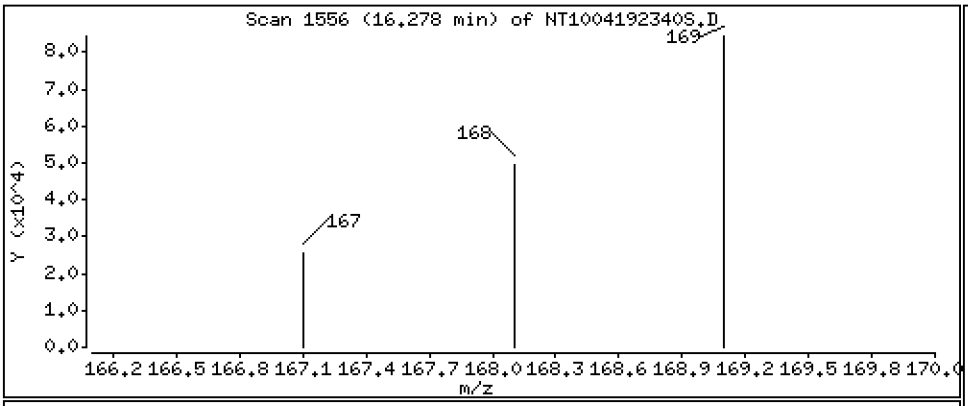
Operator: DSD

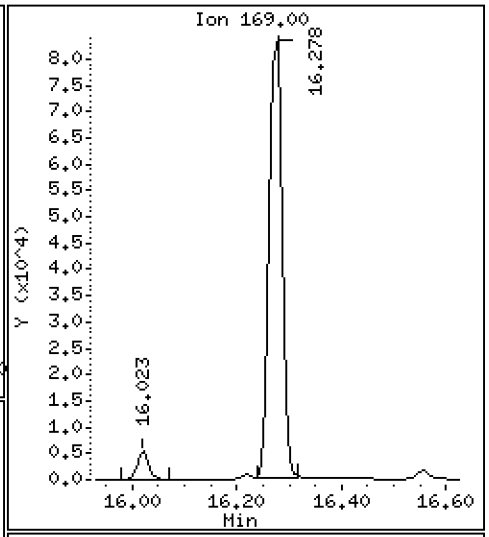
Column phase: ZB-5msi

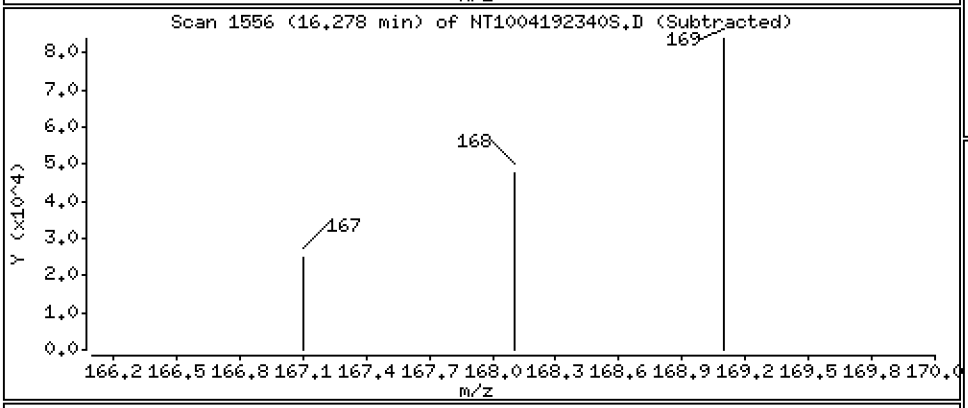
Column diameter: 0.25

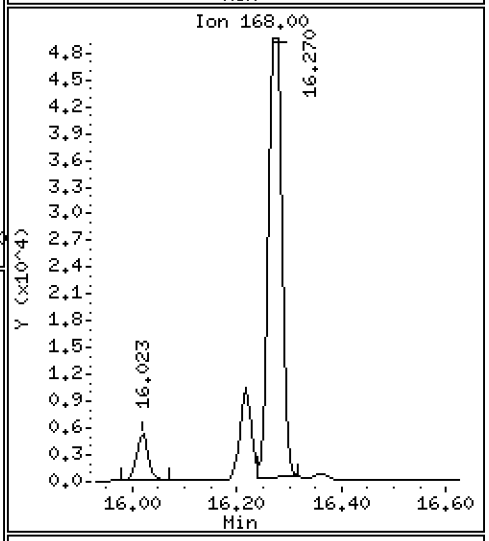
54 N-Nitrosodiphenylamine

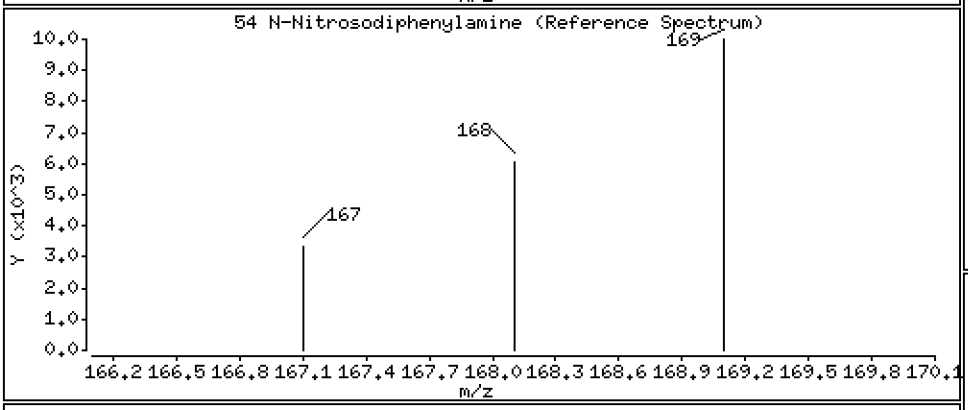
Concentration: 1.894 ug/L

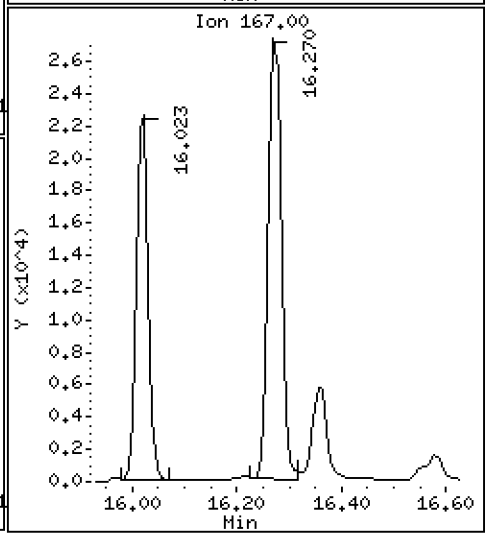


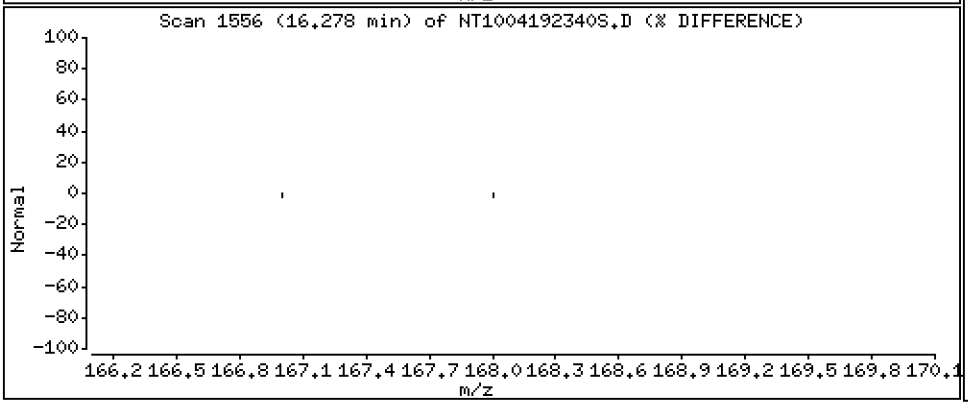












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192340S.D

Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM2

Volume Injected (uL): 1.0

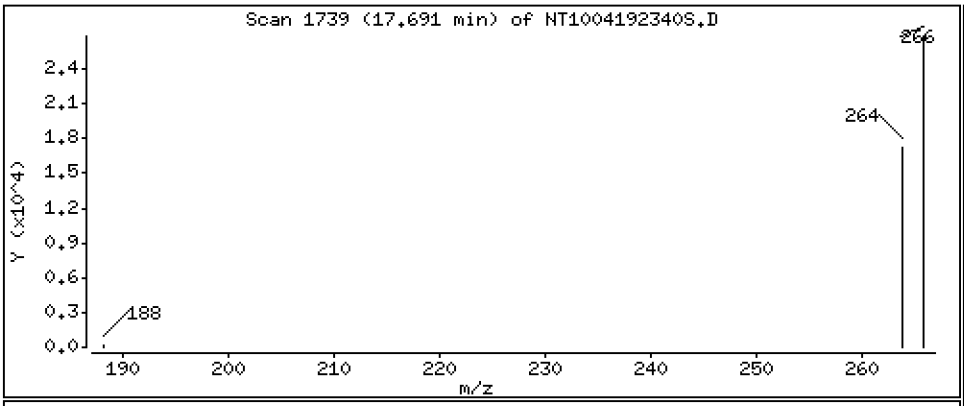
Operator: DSD

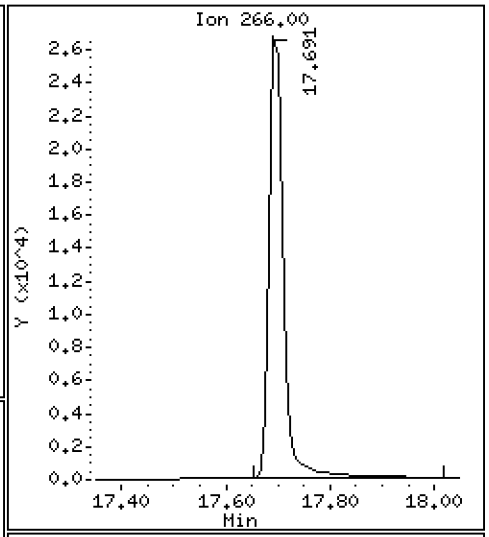
Column phase: ZB-5msi

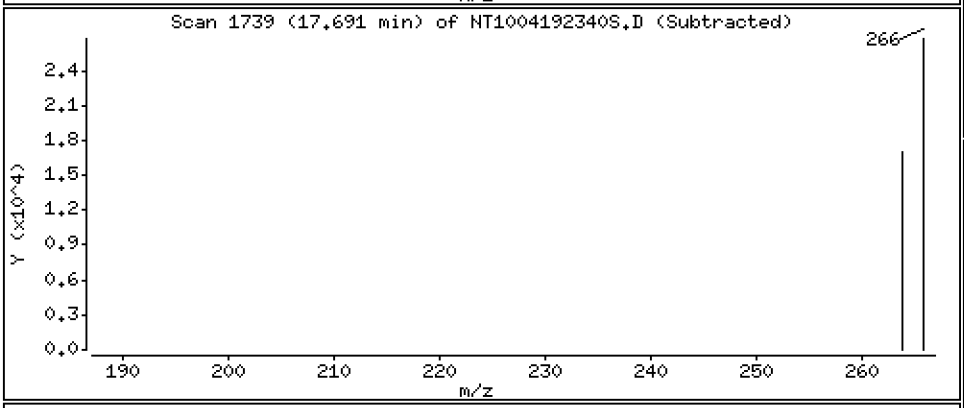
Column diameter: 0.25

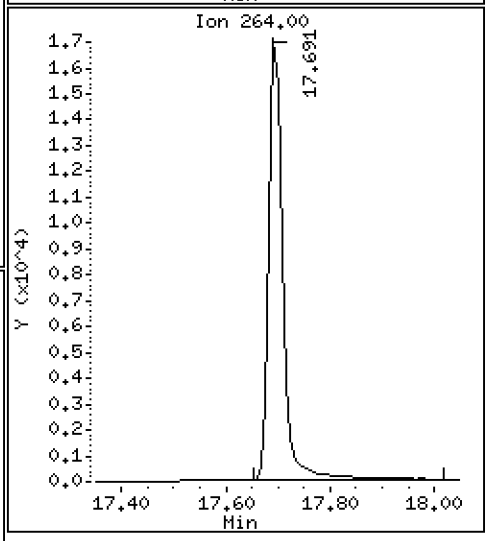
58 Pentachlorophenol

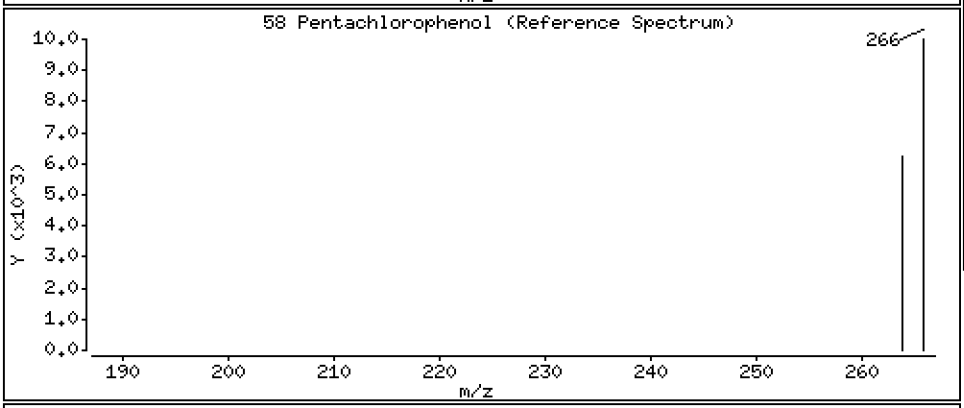
Concentration: 2.772 ug/L

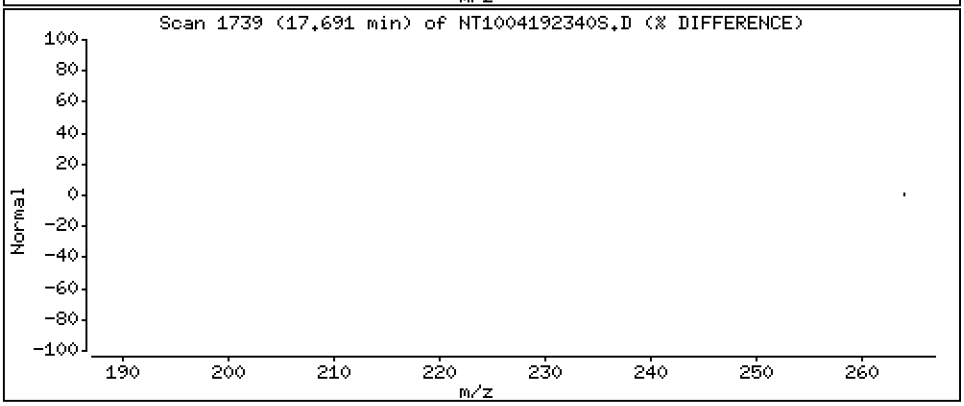












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192340S.D

Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM2

Volume Injected (uL): 1.0

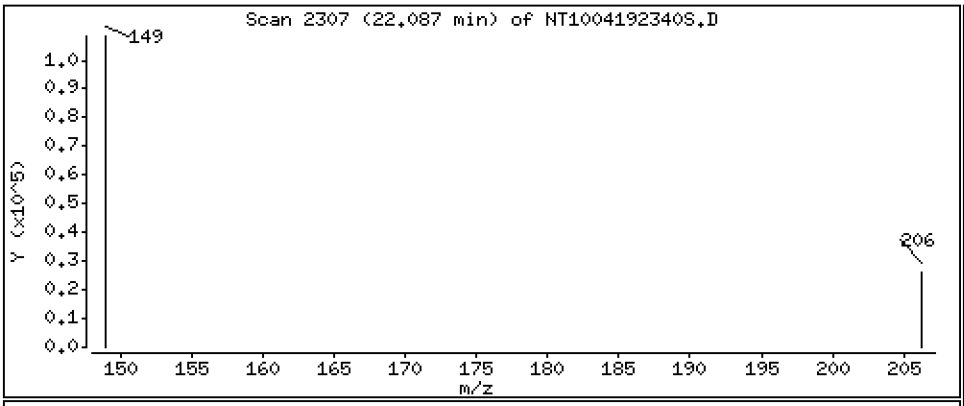
Operator: DSD

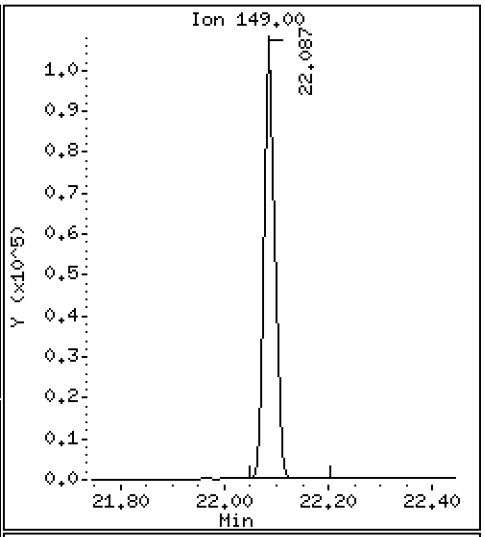
Column phase: ZB-5msi

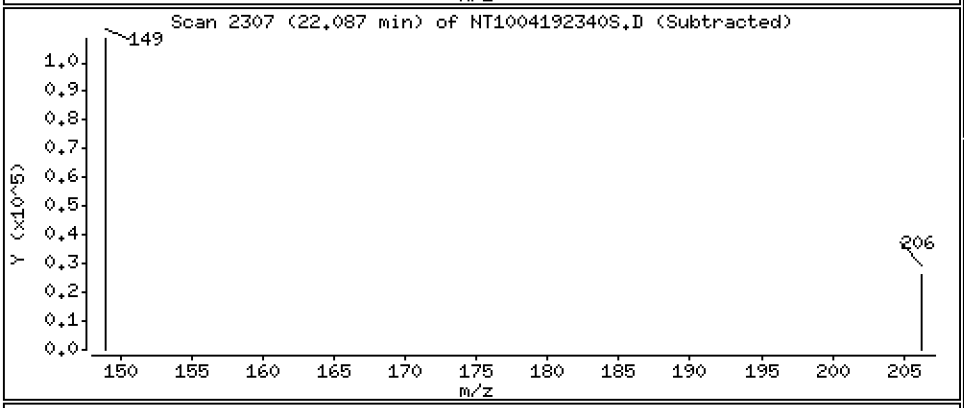
Column diameter: 0.25

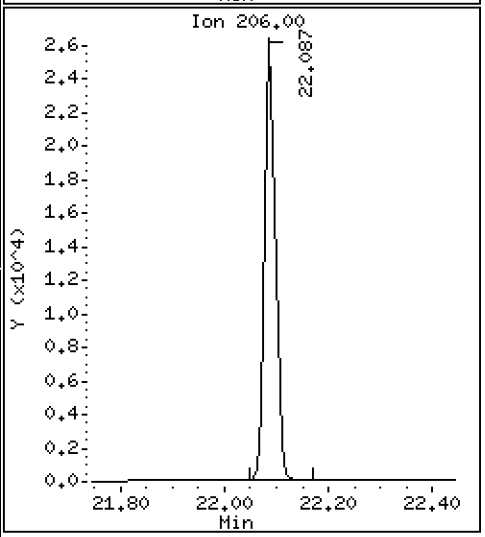
67 Butylbenzylphthalate

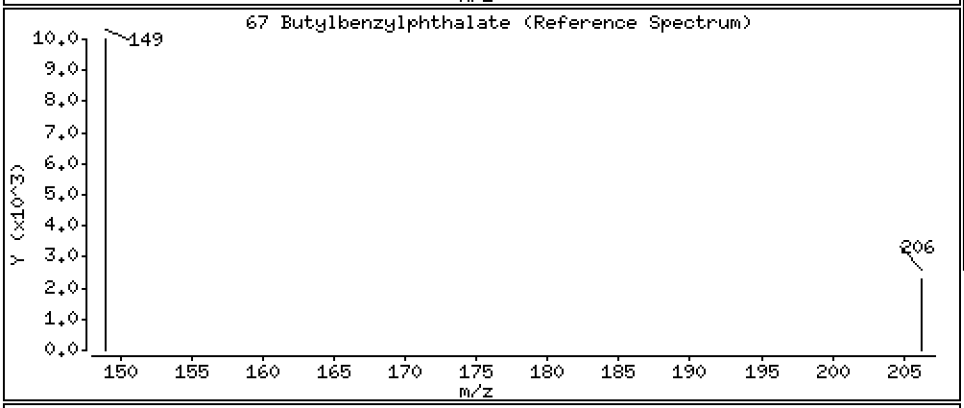
Concentration: 2.164 ug/L

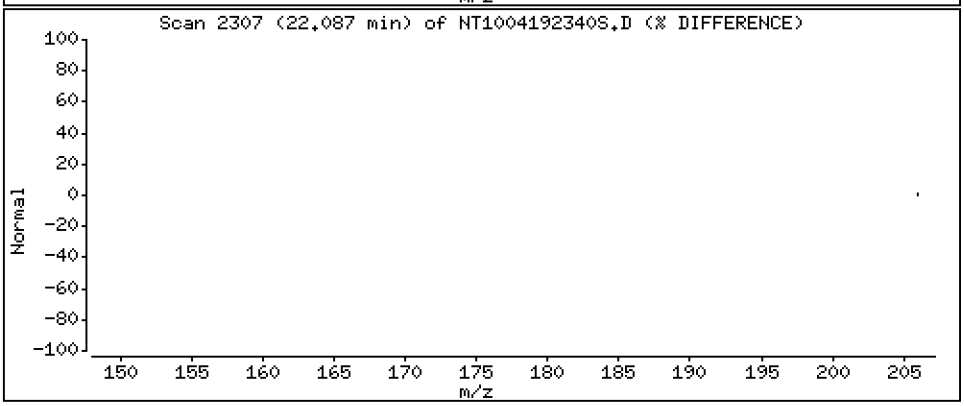












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192340S.D

Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM2

Volume Injected (uL): 1.0

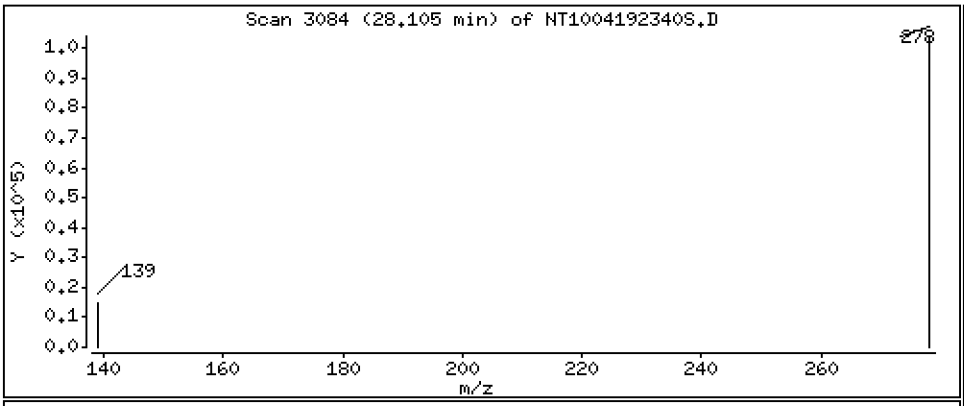
Operator: DSD

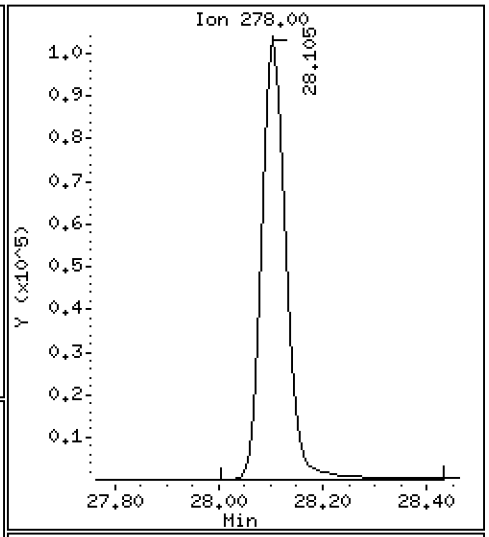
Column phase: ZB-5msi

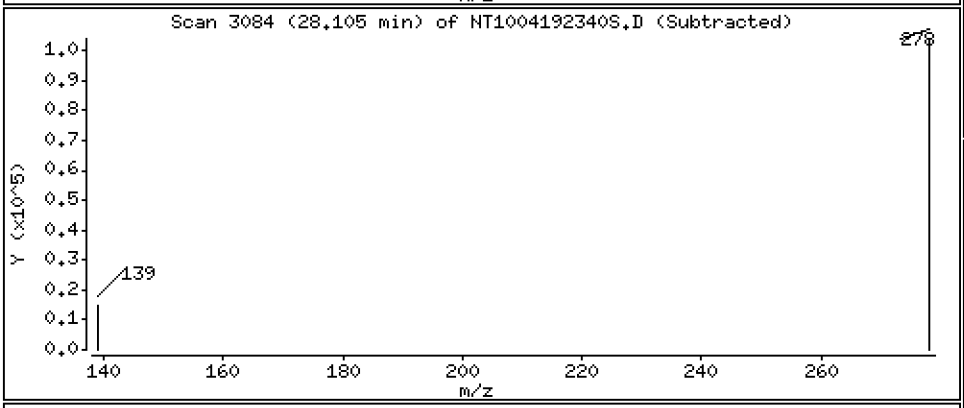
Column diameter: 0.25

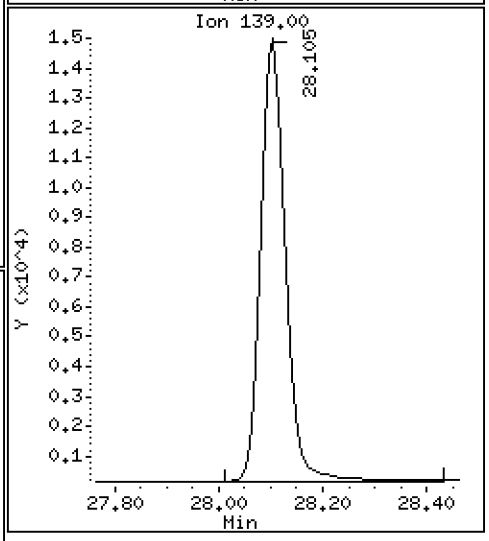
79 Dibenzo(a,h)anthracene

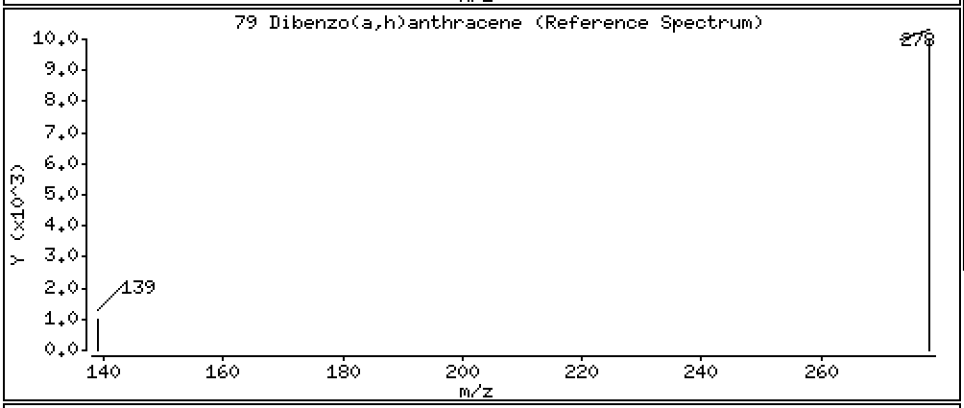
Concentration: 1.780 ug/L

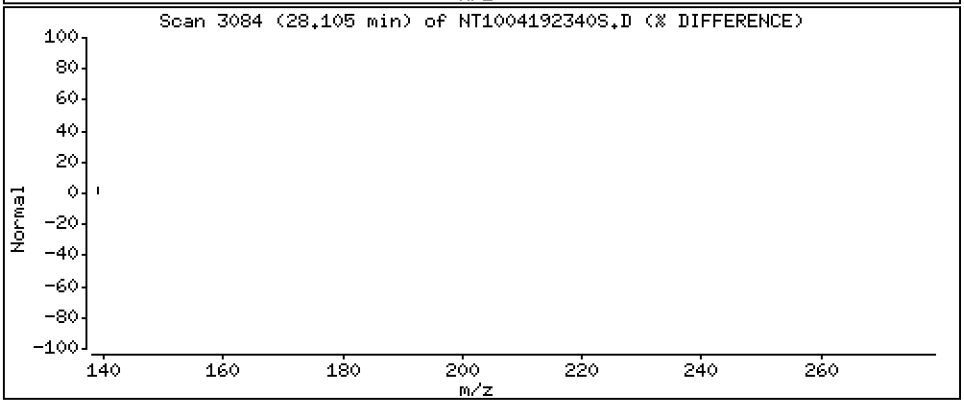












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192340S.D

Date : 20-APR-2023 12:07

Client ID:

Instrument: nt10.i

Sample Info: BLD0008-SRM2

Volume Injected (uL): 1.0

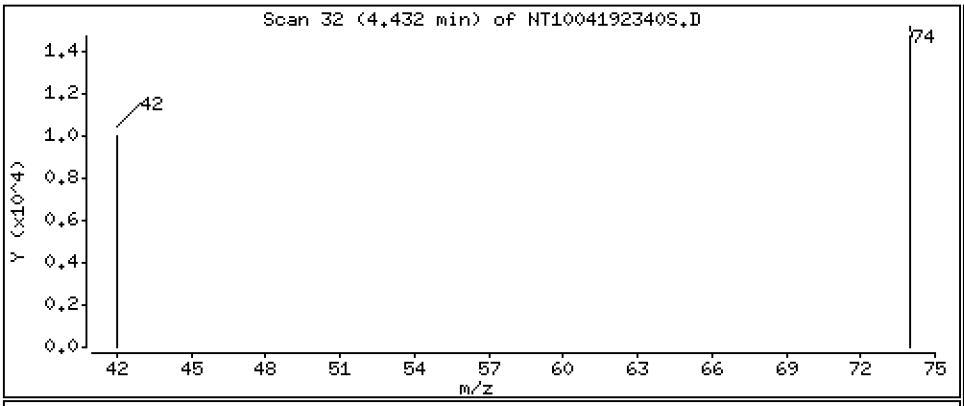
Operator: DSD

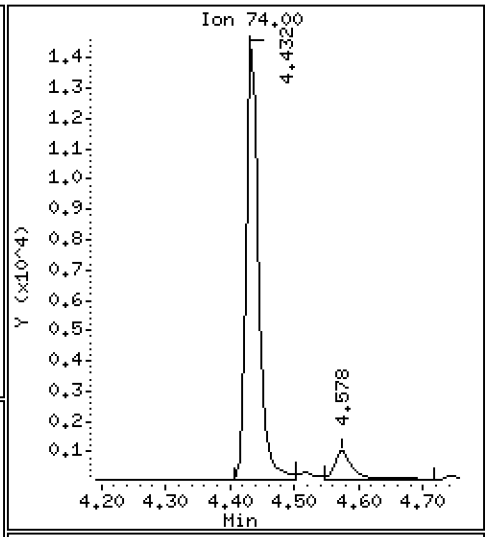
Column phase: ZB-5msi

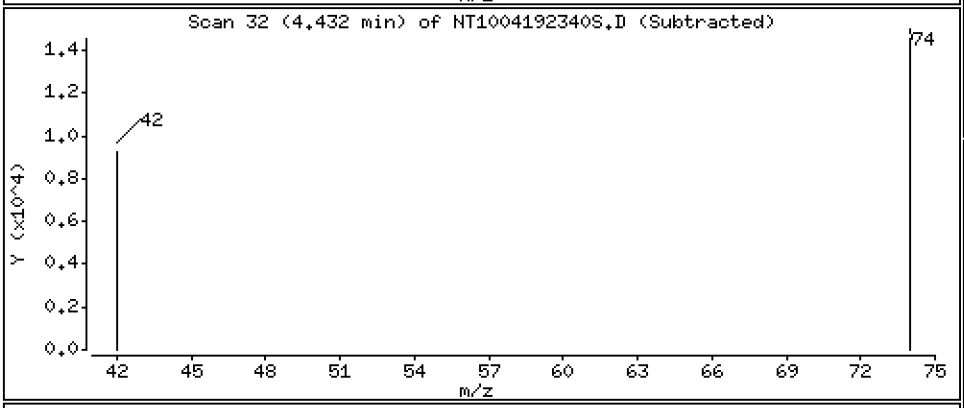
Column diameter: 0.25

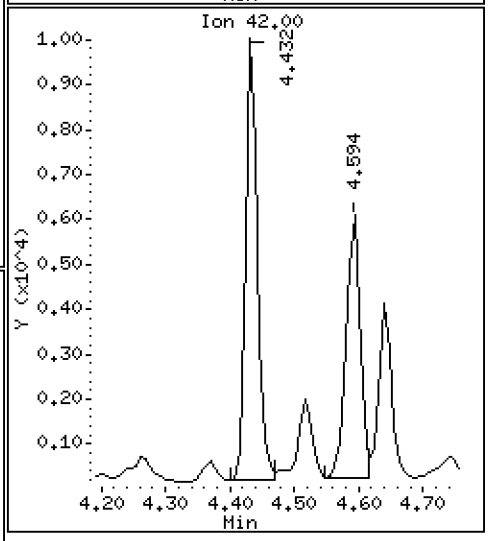
90 N-Nitrosodimethylamine

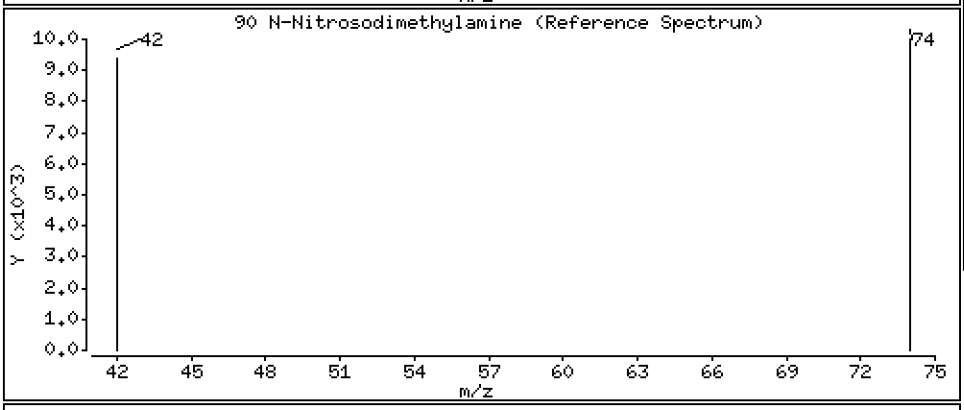
Concentration: 0.7102 ug/L

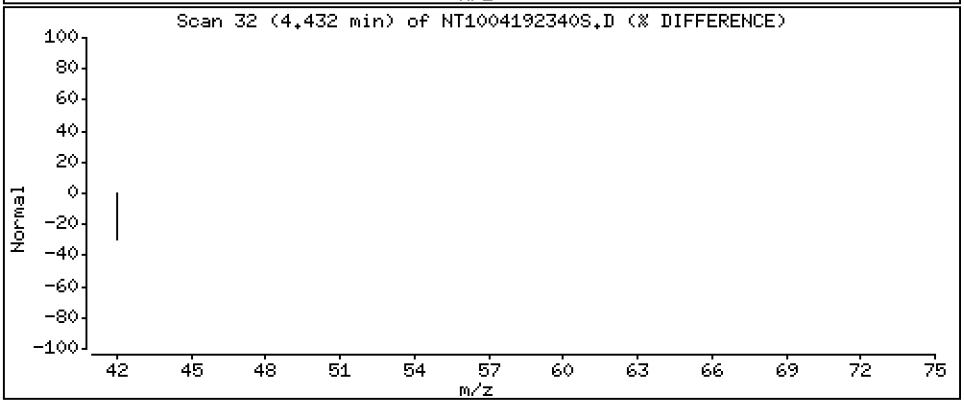












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192340S.D
Lab Smp Id: BLD0008-SRM2
Inj Date : 20-APR-2023 12:07 MS Autotune Date: 16-JAN-2023 17:42
Operator : DSD Inst ID: nt10.i
Smp Info : BLD0008-SRM2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\SIMABN2.m
Meth Date : 21-Apr-2023 13:41 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.624	6.617	(0.750)	200103	4.47416	4.474(R)
3	Phenol	94	8.239	8.240	(0.933)	106611	1.73750	1.738
7	1,3-Dichlorobenzene	146	8.765	8.766	(0.993)	55219	0.96174	0.9617
* 8	1,4-Dichlorobenzene-d4	152	8.827	8.835	(1.000)	147485	4.00000	
9	1,4-Dichlorobenzene	146	Compound Not Detected.					
11	Benzyl alcohol	79	Compound Not Detected.					
12	1,2-Dichlorobenzene	146	Compound Not Detected.					
13	2-Methylphenol	108	9.347	9.348	(1.059)	131019	3.08163	3.082
15	4-Methylphenol	108	9.619	9.627	(1.090)	166517	3.76912	3.769
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
22	2,4-Dimethylphenol	107	10.656	10.656	(0.942)	25922	0.55450	0.5545
24	Benzoic acid	105	10.783	10.809	(0.953)	13717	0.53573	0.5357
26	1,2,4-Trichlorobenzene	180	11.227	11.227	(0.992)	50537	1.07463	1.075
* 27	Naphthalene-d8	136	11.312	11.312	(1.000)	540831	4.00000	
30	Hexachlorobutadiene	225	11.721	11.721	(1.036)	47172	1.64986	1.650
39	Dimethylphthalate	163	14.445	14.446	(0.968)	275573	2.98061	2.981
* 42	Acenaphthene-d10	162	14.917	14.918	(1.000)	292978	4.00000	
50	Diethylphthalate	149	15.899	15.900	(1.066)	6638	0.06931	0.06931
54	N-Nitrosodiphenylamine	169	16.277	16.278	(0.907)	135065	1.89449	1.894
57	Hexachlorobenzene	284	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.691	17.699	(0.986)	49622	2.77191	2.772
*	59 Phenanthrene-d10	188	17.946	17.947	(1.000)	531375	4.00000	
$	66 Terphenyl-d14	244	21.134	21.142	(0.917)	249867	2.99981	3.000(R)
	67 Butylbenzylphthalate	149	22.086	22.094	(0.958)	148916	2.16358	2.164
*	69 Chrysene-d12	240	23.046	23.047	(1.000)	511210	4.00000	
*	77 Perylene-d12	264	25.586	25.594	(1.000)	578652	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.105	28.113	(1.098)	334660	1.78009	1.780
	90 N-Nitrosodimethylamine	74	4.431	4.408	(0.502)	20144	0.71015	0.7102

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192340S.D
Lab Smp Id: BLD0008-SRM2
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\SIMABN2.m
Misc Info:

Calibration Date: 20-APR-2023
Calibration Time: 08:57
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	128281	64141	256562	147485	14.97
27 Naphthalene-d8	458707	229354	917414	540831	17.90
42 Acenaphthene-d10	243296	121648	486592	292978	20.42
59 Phenanthrene-d10	433853	216927	867706	531375	22.48
69 Chrysene-d12	435413	217707	870826	511210	17.41
77 Perylene-d12	490854	245427	981708	578652	17.89

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.84	8.34	9.34	8.83	-0.09
27 Naphthalene-d8	11.31	10.81	11.81	11.31	-0.00
42 Acenaphthene-d10	14.92	14.42	15.42	14.92	-0.00
59 Phenanthrene-d10	17.95	17.45	18.45	17.95	-0.00
69 Chrysene-d12	23.05	22.55	23.55	23.05	-0.00
77 Perylene-d12	25.59	25.09	26.09	25.59	-0.03

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

REVIEW SUMMARY FOR FILE - NT1004192340S.D

Lab ID: BLD0008-SRM2
nt10.i, 20230419B.b\20230419B.b\SIMABN2.m,   20-APR-2023 12:07

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230419B.b/NT1004192335S.D

On Column LOD for nt10.i, 20230419B.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Analytical Resources, LLC
Analytical Chemists and Consultants

MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E-SIM

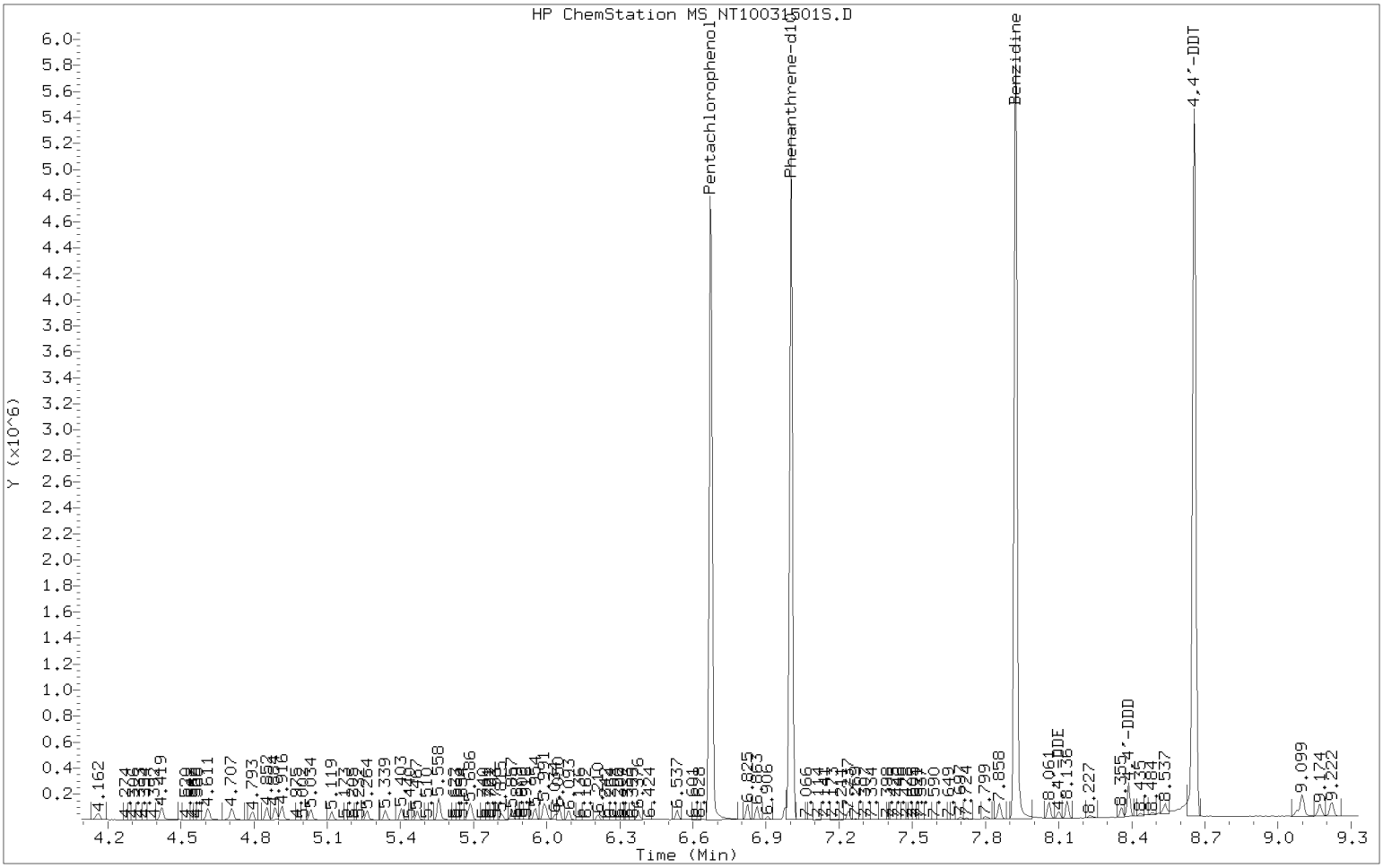
Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Lab File ID:	NT10031501S.D	Injection Date:	03/15/23
Instrument ID:	NT10	Injection Time:	20:19
Sequence:	SLC0238	Lab Sample ID:	SLC0238-TUN1

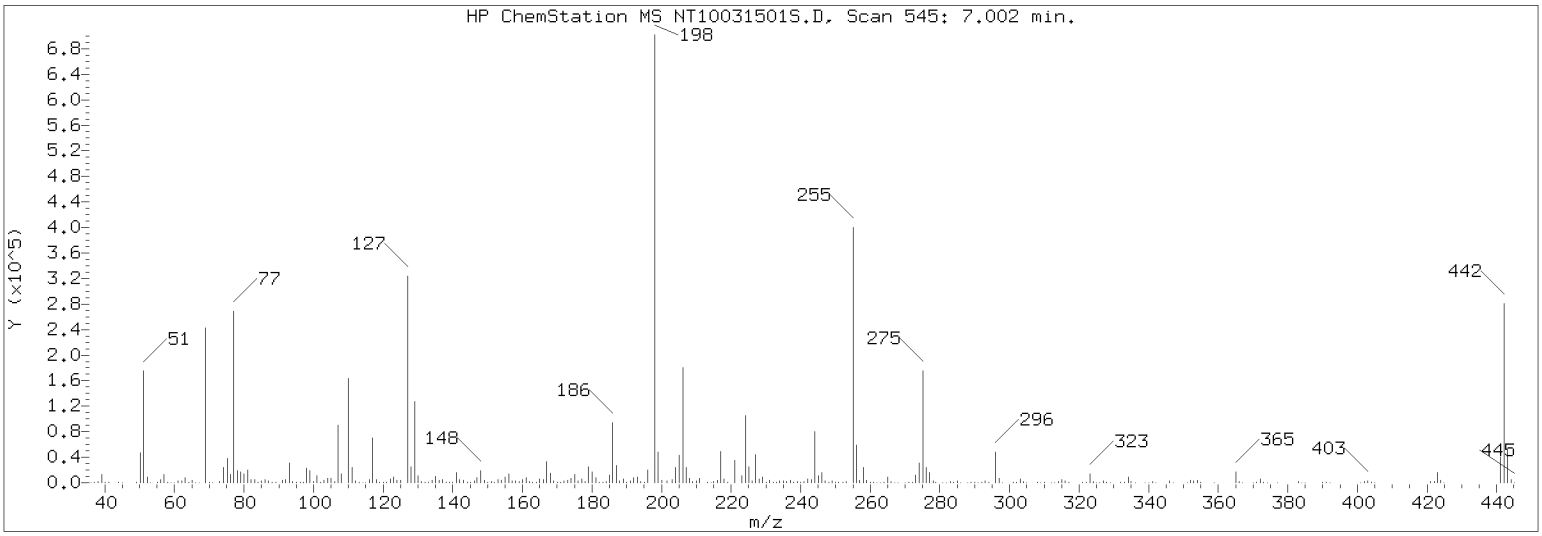
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	0.372	PASS
69	Less than 100% of 198	36.5	PASS
70	Less than 2% of 69	0.498	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.88	PASS
365	1 - 100% of 198	2.52	PASS
441	Less than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

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
MS Tune	SLC0238-TUN1	NT10031501S.D	03/15/2023	20:19
Cal Standard	SLC0238-CAL8	NT10031503S.D	03/15/2023	21:12
Cal Standard	SLC0238-CAL7	NT10031504S.D	03/15/2023	21:50
Cal Standard	SLC0238-CAL6	NT10031505S.D	03/15/2023	22:28
Cal Standard	SLC0238-CAL5	NT10031506S.D	03/15/2023	23:06
Cal Standard	SLC0238-CAL4	NT10031507S.D	03/15/2023	23:44
Cal Standard	SLC0238-CAL3	NT10031508S.D	03/16/2023	0:22
Cal Standard	SLC0238-CAL2	NT10031509S.D	03/16/2023	1:00
Cal Standard	SLC0238-CAL1	NT10031510S.D	03/16/2023	1:38
Secondary Cal Check	SLC0238-SCV1	NT10031511S.D	03/16/2023	2:16
Initial Cal Blank	SLC0238-ICB1	NT10031512S.D	03/16/2023	2:54

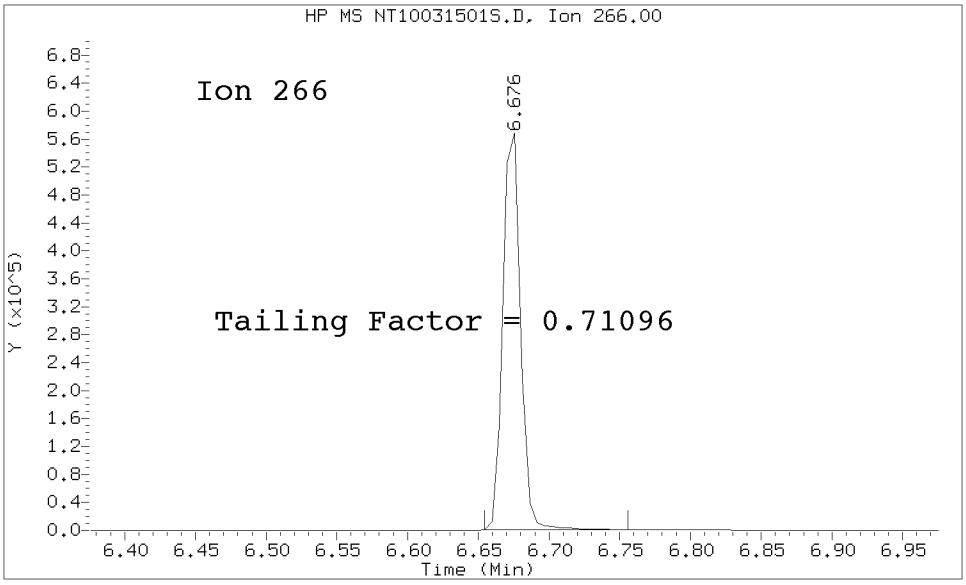
DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20230315.b/20230315.b/NT10031501S.D/NT10031501S.D
Method Used: \20230315.b\20230315.b\DFTPP8270E.m Inst: nt10
Injection Date: 15-MAR-2023 20:19 Operator: JGR
Sample Info: SLC0238-TUN1 SLC0238-TUN1
Report Date: 03/16/2023 14:49



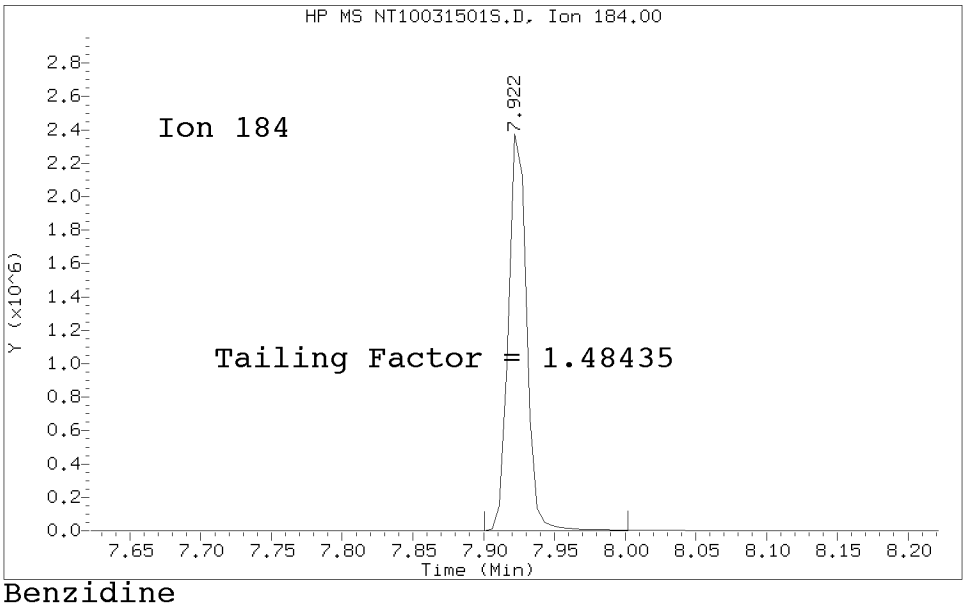


Datafile Analyzed: /20230315.b/20230315.b/NT10031501S.D/NT10031501S.D
Method Used: \20230315.b\20230315.b\DFTPP8270E.m\sw846ddt.m Inst: nt10
Injection Date: 15-MAR-2023 20:19 Operator: JGR
Sample Info: SEQ-TUN1
Report Date: 03/16/2023 14:49



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

Tail Factor = 0.711 Maximum Allowed = 2.0



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

Tail Factor = 1.484 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

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

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

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

Tuning Sample, nt10.i/20230315.b/20230315.b/NT10031501S.D, *** PASSED ***

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

Data File: NT10031501S.D
Spectrum: Avg. Scans 544-546 (7.00), Background Scan 536
Location of Maximum: 198.00
Number of points: 316

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

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

INITIAL CALIBRATION DATA

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GC00049	Instrument:	NT10
Calibration Date:	03/15/2023	Column (1):	ZB-5MSi

Calibration Comments: SIM ABN ICAL

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
1,4-Dichlorobenzene	0.05	1.592272	0.1	1.586931	0.2	1.531032	0.5	1.525923	1	1.515432	2.5	1.504782
1,2-Dichlorobenzene	0.05	1.56064	0.1	1.560751	0.2	1.516719	0.5	1.51987	1	1.490507	2.5	1.472424
Benzyl Alcohol	0.05	0.782671	0.1	0.8201691	0.2	0.8740273	0.5	1.001336	1	1.030407	2.5	1.109109
Benzoic acid	0.2		0.4		0.8	6.708155E-03	2	6.190403E-02	4	0.1152489	10	0.1827842
2,4-Dimethylphenol	0.1	0.3036003	0.2	0.3286116	0.4	0.3508719	1	0.3747964	2	0.3711962	5	0.3672727
1,2,4-Trichlorobenzene	0.05	0.3845889	0.1	0.3611836	0.2	0.3536726	0.5	0.3564226	1	0.3477346	2.5	0.3419587
N-Nitrosodiphenylamine	0.05	0.4535426	0.1	0.5106592	0.2	0.5366733	0.5	0.5716845	1	0.5845597	2.5	0.5722409
Pentachlorophenol	0.1	2.310914E-02	0.2	3.752894E-02	0.4	5.531502E-02	1	8.792089E-02	2	0.1125666	5	0.1349126
2-Fluorophenol	0.075	1.096851	0.15	1.182501	0.3	1.198448	0.75	1.278705	1.5	1.28736	3.75	1.294114
p-Terphenyl-d14	0.05	0.6363201	0.1	0.6085315	0.2	0.6174532	0.5	0.6484741	1	0.6506625	2.5	0.6938122

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GC00049	Instrument:	NT10
Calibration Date:	03/15/2023	Column (1):	ZB-5MSi

Calibration Comments: SIM ABN ICAL

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
1,4-Dichlorobenzene	5	1.407857	10	1.361355								
1,2-Dichlorobenzene	5	1.378422	10	1.327177								
Benzyl Alcohol	5	1.078683	10	1.021686								
Benzoic acid	20	0.2157908	40	0.2329458								
2,4-Dimethylphenol	10	0.3419758	20	0.3276736								
1,2,4-Trichlorobenzene	5	0.3213898	10	0.3155673								
N-Nitrosodiphenylamine	5	0.5475779	10	0.5164376								
Pentachlorophenol	10	0.1437906	20	0.1522559								
2-Fluorophenol	7.5	1.204517	15	1.16136								
p-Terphenyl-d14	5	0.6837	10	0.6749908								

INITIAL CALIBRATION DATA

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GC00049	Instrument:	NT10
Calibration Date:	03/15/2023	Column (1):	ZB-5MSi

Calibration Comments: SIM ABN ICAL

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
1,4-Dichlorobenzene	1.503198	5.4			RSD (15)	
1,2-Dichlorobenzene	1.478314	5.7			RSD (15)	
Benzyl Alcohol	0.964761	12.7			RSD (15)	
Benzoic acid	0.135897	66.3		0.9947	QCOD (0.99)	
2,4-Dimethylphenol	0.3457498	7.2			RSD (15)	
1,2,4-Trichlorobenzene	0.3478148	6.3			RSD (15)	
N-Nitrosodiphenylamine	0.536672	8.0			RSD (15)	
Pentachlorophenol	9.342496E-02	53.7		0.9990	QCOD (0.99)	
2-Fluorophenol	1.212982	5.7			RSD (15)	
p-Terphenyl-d14	0.651743	4.7			RSD (15)	

ANALYSIS SEQUENCE

SLC0238

Instrument ID: NT10
Calibration ID: GC00049
MS EM Level: 1271 EV

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

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLC0238-TUN1	MS Tune	QC		1	L002618		03/15/2023 20:19	NT10031501S.D	JGR	
SLC0238-CAL8	ABN 10.0	QC		2	K011110	K010831	03/15/2023 21:12	NT10031503S.D	JGR	
SLC0238-CAL7	ABN 5.0	QC		3	K011109	K010831	03/15/2023 21:50	NT10031504S.D	JGR	
SLC0238-CAL6	ABN 2.5	QC		4	K011108	K010831	03/15/2023 22:28	NT10031505S.D	JGR	
SLC0238-CAL5	ABN 1.0	QC		5	K011107	K010831	03/15/2023 23:06	NT10031506S.D	JGR	
SLC0238-CAL4	ABN 0.5	QC		6	K011106	K010831	03/15/2023 23:44	NT10031507S.D	JGR	
SLC0238-CAL3	ABN 0.2	QC		7	K011105	K010831	03/16/2023 00:22	NT10031508S.D	JGR	
SLC0238-CAL2	ABN 0.1	QC		8	L002877	K010831	03/16/2023 01:00	NT10031509S.D	JGR	
SLC0238-CAL1	ABN 0.05	QC		9	L002878	K010831	03/16/2023 01:38	NT10031510S.D	JGR	
SLC0238-SCV1	SCV 5.0	QC		10	K010066	K010831	03/16/2023 02:16	NT10031511S.D	JGR	
SLC0238-ICB1	Initial Cal Blank	QC		11	K005156	K010831	03/16/2023 02:54	NT10031512S.D	JGR	

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

	Time	Filename	LabID	ClientId	DF											
1	2019	NT10031501S.D	SLC0238-TUN1		1	|NO ISTDS FOUND||										
2	2034	NT10031502S.D	FULL SCAN ONLY		1	9.31	193857	11.78	709633	15.39	344841	18.43	635594	23.46	392013	26.19	449978
3	2112	NT10031503S.D	SLC0238-CAL8		1	9.31	192425	11.78	689875	15.39	341663	18.42	651934	23.45	482051	26.19	502718
4	2150	NT10031504S.D	SLC0238-CAL7		1	9.30	187419	11.77	682446	15.38	331603	18.42	598629	23.45	389338	26.19	466441
5	2228	NT10031505S.D	SLC0238-CAL6		1	9.30	173412	11.78	624286	15.38	310309	18.43	554860	23.46	385144	26.19	456369
6	2306	NT10031506S.D	SLC0238-CAL5		1	9.30	188081	11.77	674549	15.39	328275	18.42	597140	23.45	466503	26.19	518203
7	2344	NT10031507S.D	SLC0238-CAL4		1	9.30	191648	11.77	679665	15.39	335786	18.42	613961	23.45	464623	26.19	521317
8	0022	NT10031508S.D	SLC0238-CAL3		1	9.30	188644	11.78	664117	15.38	328147	18.42	603272	23.46	468991	26.18	525052
9	0100	NT10031509S.D	SLC0238-CAL2		1	9.30	190985	11.77	684638	15.39	328366	18.42	602202	23.45	451316	26.19	517188
10	0138	NT10031510S.D	SLC0238-CAL1		1	9.30	187154	11.78	654413	15.38	318969	18.42	583319	23.46	440533	26.19	488759
11	0216	NT10031511S.D	SLC0238-SCV1		1	9.31	166866	11.78	612104	15.39	302524	18.43	553619	23.46	465428	26.19	532593
12	0254	NT10031512S.D	SLC0238-ICB1		1	9.31	189475	11.77	676186	15.38	328650	18.42	617605	23.45	473513	26.19	534734

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

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

Time	Filename	LabID	DF	Manually Integrated Compounds
2019	NT10031501S.D	SLC0238-TUN1	1	NO MANUAL INTEGRATION
2034	NT10031502S.D	FULL SCAN ONLY	1	NO MANUAL INTEGRATION
2112	NT10031503S.D	SLC0238-CAL8	1	NO MANUAL INTEGRATION
2150	NT10031504S.D	SLC0238-CAL7	1	NO MANUAL INTEGRATION
2228	NT10031505S.D	SLC0238-CAL6	1	NO MANUAL INTEGRATION
2306	NT10031506S.D	SLC0238-CAL5	1	NO MANUAL INTEGRATION
2344	NT10031507S.D	SLC0238-CAL4	1	NO MANUAL INTEGRATION
0022	NT10031508S.D	SLC0238-CAL3	1	Benzoic acid,
0100	NT10031509S.D	SLC0238-CAL2	1	Pentachlorophenol,
0138	NT10031510S.D	SLC0238-CAL1	1	Pentachlorophenol,
0216	NT10031511S.D	SLC0238-SCV1	1	Terphenyl-d14,
0254	NT10031512S.D	SLC0238-ICB1	1	NO MANUAL INTEGRATION

Security Status Report

Date: 16-Mar-2023 14:47

NT10031501S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031502S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031503S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031504S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031505S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031506S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031507S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031508S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031509S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031510S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031511S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031512S.D	Data Locked	van, 16-Mar-2023 14:47

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 21:12
End Cal Date : 16-MAR-2023 01:38
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Last Edit : 16-Mar-2023 14:34 van

Calibration File Names:
Level 1: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031510S.D
Level 2: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031509S.D
Level 3: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031508S.D
Level 4: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031507S.D
Level 5: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031506S.D
Level 6: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031505S.D
Level 7: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031504S.D
Level 8: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031503S.D

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

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Target Version : 4.14
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Last Edit : 16-Mar-2023 14:34 van

Compound	0.0500000 Level 1 / 5.0000 Level 7	0.1000000 Level 2 / 10.0000 Level 8	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
141 Diallate B	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
142 1,2-Dibromo-3-Chloropropane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
135 2,3,5,6-Tetrachlorophenol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
136 2,3,4,5-tetrachlorophenol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
137 NewCpnd_131	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
133 Butylatedhydroxytoluene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
132 3,6-Dimethylphenanthrene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

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Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Last Edit : 16-Mar-2023 14:34 van

Compound	0.0500000 Level 1 / 5.0000 Level 7	0.1000000 Level 2 / 10.0000 Level 8	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
131 1-Methylphenanthrene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
146 Benzo(j)fluoranthene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
130 Dibenzothiophene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
129 1-Methylfluorene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
128 N-Hexadecane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
127 2-Isopropylnaphthalene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
126 N-Tetradecane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

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Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
144 alpha-Terpineol	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
125 Safrole	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
124 3,4-Dimethylphenol	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
123 Acetophenone	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
122 Furfuraldehyde	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
143 1,4-Dioxane	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
121 Quinoline	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
120 2,3,4,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
119 7,12-Dimethylbenz(a)anthracen	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
118 Triphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
117 Butyl Diphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
116 Dibutyl Phenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
115 Tributyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
113 Diphenyl Oxide	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
112 Biphenyl	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
111 Azobenzene (1,2-DP-Hydrazine)	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
110 Tetrachloroguaiacol	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
109 3,4,5-Trichloroguaiacol	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
108 4,5,6-Trichloroguaiacol	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
107 4,5-Dichloro-2-Methoxyphenol	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
106 Guaiacol	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
105 1-methylnaphthalene	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
3 Phenol	1.56149	1.65772	1.68063	1.76515	1.75148	1.75667					
	1.62297	1.51697					AVRG		1.66414		5.59099
4 Bis(2-Chloroethyl)ether	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
6 2-Chlorophenol	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
7 1,3-Dichlorobenzene	1.66537	1.66694	1.59369	1.58637	1.56403	1.55057					
	1.44651	1.38404					AVRG		1.55719		6.34113
9 1,4-Dichlorobenzene	1.59227	1.58693	1.53103	1.52592	1.51543	1.50478					
	1.40786	1.36136					AVRG		1.50320		5.36917

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
11 Benzyl alcohol	0.78267	0.82017	0.87403	1.00134	1.03041	1.10911					
	1.07868	1.02169					AVRG		0.96476		12.69470
12 1,2-Dichlorobenzene	1.56064	1.56075	1.51672	1.51987	1.49051	1.47242					
	1.37842	1.32718					AVRG		1.47831		5.70440
13 2-Methylphenol	1.10796	1.06982	1.09063	1.18375	1.19440	1.23938					
	1.18782	1.15101					AVRG		1.15310		5.09645
14 2,2'-oxybis(1-Chloropropane)	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
15 4-Methylphenol	1.03102	1.10647	1.13727	1.24194	1.26988	1.30504					
	1.27388	1.22012					AVRG		1.19820		8.02665
16 N-Nitroso-di-n-propylamine	0.74420	0.77640	0.80427	0.88191	0.89897	0.92866					
	0.89355	0.85105					AVRG		0.84738		7.74495
17 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1 / 5.0000 Level 7	0.1000000 Level 2 / 10.0000 Level 8	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
20 Isophorone	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
21 2-Nitrophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
22 2,4-Dimethylphenol	0.30360	0.32861	0.35087	0.37480	0.37120	0.36727					
	0.34198	0.32767					AVRG		0.34575		7.24468
23 Bis(2-Chloroethoxy)methane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
24 Benzoic acid	+++++	+++++	891	21037	77741	285274					
	736328	1607035					QUAD	0.000e+000	5.29174	-0.43541	0.99817
25 2,4-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
26 1,2,4-Trichlorobenzene	0.38459	0.36118	0.35367	0.35642	0.34773	0.34196					
	0.32139	0.31557					AVRG		0.34781		6.34752
28 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
29 4-Chloroaniline	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
30 Hexachlorobutadiene	0.23044	0.21302	0.21319	0.21525	0.21116	0.21214					
	0.19866	0.19786					AVRG		0.21146		4.82681
31 4-Chloro-3-methylphenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
32 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
33 Hexachlorocyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
34 2,4,6-Trichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
35 2,4,5-Trichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
37 2-Chloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
38 2-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
39 Dimethylphthalate	1.27787	1.27224	1.24048	1.29313	1.32502	1.28149					
	1.22328	1.18473					AVRG		1.26228		3.49321
40 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
41 2,6-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
43 3-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
44 Acenaphthene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
45 2,4-Dinitrophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
46 Dibenzofuran	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
47 4-Nitrophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
48 2,4-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
49 Fluorene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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	5.0000 Level 7	10.0000 Level 8									
50 Diethylphthalate	1.09879	1.17308	1.27815	1.36289	1.42716	1.41289					
	1.35423	1.35415					AVRG		1.30767		8.92477
51 4-Chlorophenyl-phenylether	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
52 4-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
53 4,6-Dinitro-2-methylphenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
54 N-Nitrosodiphenylamine	0.45354	0.51066	0.53667	0.57168	0.58456	0.57224					
	0.54758	0.51644					AVRG		0.53667		7.99896
56 4-Bromophenyl-phenylether	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
57 Hexachlorobenzene	0.25043	0.25088	0.24115	0.24237	0.24203	0.24151					
	0.23339	0.22020					AVRG		0.24025		4.08944

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INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 21:12
End Cal Date : 16-MAR-2023 01:38
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Last Edit : 16-Mar-2023 14:34 van

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
58 Pentachlorophenol	+++++	1130	3337	13495	33609	93572					
	215193	496304					QUAD	0.000e+000	7.54154	-1.29368	0.99963
60 Phenanthrene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
61 Anthracene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
62 Carbazole	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
63 Di-n-butylphthalate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
64 Fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
65 Pyrene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

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Last Edit : 16-Mar-2023 14:34 van

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
67 Butylbenzylphthalate	1336	3284	7787	24470	56297	133147					
	271734	722761					QUAD	0.000e+000	1.90264	-0.15728	0.99983
68 Benzo(a)anthracene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
70 3,3'-Dichlorobenzidine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
71 Chrysene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
72 bis(2-Ethylhexyl)phthalate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
73 Di-n-octylphthalate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
74 Benzo(b)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

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Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Last Edit : 16-Mar-2023 14:34 van

Compound	0.0500000 Level 1 / 5.0000 Level 7	0.1000000 Level 2 / 10.0000 Level 8	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
75 Benzo(k)fluoranthene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
76 Benzo(a)pyrene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
78 Indeno(1,2,3-cd)pyrene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
79 Dibenzo(a,h)anthracene	4785 / 751404	11218 / 1559411	24266	72052	155363	368157	QUAD	0.000e+000	0.76135	0.01405	0.99989
80 Benzo(g,h,i)perylene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
90 N-Nitrosodimethylamine	0.74719 / 0.73835	0.78006 / 0.67774	0.77776	0.82263	0.80430	0.80649	AVRG		0.76932		6.11057
91 Aniline	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

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Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Last Edit : 16-Mar-2023 14:34 van

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
93 Benzidine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
98 Retene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

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Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Last Edit : 16-Mar-2023 14:34 van

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
101 Cholesterol	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000
102 beta-Sitosterol	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000
103 Pyridine	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000
$ 1 2-Fluorophenol	1.09685	1.18250	1.19845	1.27871	1.28736	1.29411					
	1.20452	1.16136					AVRG		1.21298		5.72847
$ 145 d8-1,4-Dioxane	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000
$ 2 Phenol-d5	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000
$ 5 2-Chlorophenol-d4	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

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Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Last Edit : 16-Mar-2023 14:34 van

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
$ 10 1,2-Dichlorobenzene-d4	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
$ 18 Nitrobenzene-d5	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
$ 36 2-Fluorobiphenyl	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
$ 55 2,4,6-Tribromophenol	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
$ 66 Terphenyl-d14	0.63632	0.60853	0.61745	0.64847	0.65066	0.69381					
	0.68370	0.67499					AVRG		0.65174		4.72002
$ 85 p-Cresol-d4	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
$ 86 Anthracene-d10	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

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Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Last Edit : 16-Mar-2023 14:34 van

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
$ 87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 88 Dibenz(a,h)anthracene-d14	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 95 D10-1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Last Edit : 16-Mar-2023 14:34 van

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230315.b\20230315.b
Inst ID: nt10.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08
FILENAME:	NT10031503S	NT10031504S	NT10031505S	NT10031506S	NT10031507S	NT10031508S	NT10031509S	NT10031510S
INJ.DATE:	15-MAR-2023	15-MAR-2023	15-MAR-2023	15-MAR-2023	15-MAR-2023	16-MAR-2023	16-MAR-2023	16-MAR-2023
INJ.TIME:	21:12	21:50	22:28	23:06	23:44	00:22	01:00	01:38

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
$ 1 2-Fluorophenol	7.073	7.073	7.066	7.073	7.073	7.073	7.073	7.073	7.073	6.573-7.573	7.072	0.003
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	33.580	33.080-34.080	+++++	+++++
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	30.873	30.373-31.373	+++++	+++++
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	31.300	30.800-31.800	+++++	+++++
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	31.300	30.800-31.800	+++++	+++++
142 1,2-Dibromo-3-Chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.496	14.996-15.996	+++++	+++++
135 2,3,5,6-Tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.428	19.928-20.928	+++++	+++++
136 2,3,4,5-tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.471	19.971-20.971	+++++	+++++
137 NewCpnd_131	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.828	7.328-8.328	+++++	+++++
* 134 Di-n-octylphthalate-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.768	23.268-24.268	+++++	+++++
133 Butylatedhydroxytoluen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.190	13.690-14.690	+++++	+++++
132 3,6-Dimethylphenanthre	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	31.262	30.762-31.762	+++++	+++++
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	29.954	29.454-30.454	+++++	+++++
146 Benzo(j)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.752	23.252-24.252	+++++	+++++
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.717	27.217-28.217	+++++	+++++
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.566	20.066-21.066	+++++	+++++
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.796	19.296-20.296	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230315.b\20230315.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.349	22.849-23.849	+++++	+++++
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.474	21.974-22.974	+++++	+++++
144 alpha-Terpineol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.191	10.691-11.691	+++++	+++++
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.779	17.279-18.279	+++++	+++++
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.310	15.810-16.810	+++++	+++++
123 Acetophenone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.707	17.207-18.207	+++++	+++++
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.921	8.421-9.421	+++++	+++++
143 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.736	3.236-4.236	+++++	+++++
$ 145 d8-1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.914	2.414-3.414	+++++	+++++
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.148	19.648-20.648	+++++	+++++
120 2,3,4,6-Tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.588	15.088-16.088	+++++	+++++
119 7,12-Dimethylbenz(a)an	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	38.587	38.087-39.087	+++++	+++++
118 Triphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.382	19.882-20.882	+++++	+++++
117 Butyl Diphenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.734	18.234-19.234	+++++	+++++
116 Dibutyl Phenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.987	16.487-17.487	+++++	+++++
115 Tributyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.204	14.704-15.704	+++++	+++++
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.540	14.040-15.040	+++++	+++++
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.586	21.086-22.086	+++++	+++++
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.692	17.192-18.192	+++++	+++++
111 Azobenzene (1,2-DP-Hyd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.268	15.768-16.768	+++++	+++++
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.055	17.555-18.555	+++++	+++++
109 3,4,5-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.228	16.728-17.728	+++++	+++++

ARI Labs, Inc.
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Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230315.b\20230315.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
108	4,5,6-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.517	16.017-17.017	+++++	+++++
107	4,5-Dichloro-2-Methoxy	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.803	14.303-15.303	+++++	+++++
106	Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.843	11.343-12.343	+++++	+++++
105	1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.927	12.427-13.427	+++++	+++++
$ 2	Phenol-d5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.235	7.735-8.735	+++++	+++++
3	Phenol	8.664	8.665	8.657	8.657	8.657	8.657	8.657	8.665	8.665	8.165-9.165	8.660	0.004
4	Bis(2-Chloroethyl)ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.397	7.897-8.897	+++++	+++++
$ 5	2-Chlorophenol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.490	7.990-8.990	+++++	+++++
6	2-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.521	8.021-9.021	+++++	+++++
7	1,3-Dichlorobenzene	9.236	9.237	9.237	9.237	9.237	9.237	9.237	9.237	9.237	8.737-9.737	9.237	0.000
* 8	1,4-Dichlorobenzene-d4	9.306	9.299	9.299	9.299	9.299	9.299	9.299	9.299	9.299	8.799-9.799	9.300	0.003
9	1,4-Dichlorobenzene	9.330	9.330	9.330	9.330	9.330	9.330	9.330	9.330	9.330	8.830-9.830	9.330	0.000
$ 10	1,2-Dichlorobenzene-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.230	8.730-9.730	+++++	+++++
11	Benzyl alcohol	9.562	9.563	9.563	9.563	9.563	9.563	9.563	9.570	9.570	9.070-10.070	9.564	0.003
12	1,2-Dichlorobenzene	9.687	9.687	9.687	9.687	9.687	9.687	9.687	9.687	9.687	9.187-10.187	9.687	0.000
13	2-Methylphenol	9.780	9.772	9.772	9.772	9.772	9.772	9.772	9.772	9.772	9.272-10.272	9.773	0.003
14	2,2'-oxybis(1-Chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.413	8.913-9.913	+++++	+++++
15	4-Methylphenol	10.044	10.036	10.036	10.036	10.036	10.036	10.036	10.036	10.036	9.536-10.536	10.037	0.003
16	N-Nitroso-di-n-propyla	10.121	10.114	10.114	10.114	10.114	10.114	10.114	10.114	10.114	9.614-10.614	10.115	0.003
17	Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.809	9.309-10.309	+++++	+++++
$ 18	Nitrobenzene-d5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.917	9.417-10.417	+++++	+++++
19	Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.948	9.448-10.448	+++++	+++++
20	Isophorone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.399	9.899-10.899	+++++	+++++
21	2-Nitrophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.575	10.075-11.075	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230315.b\20230315.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	22 2,4-Dimethylphenol	11.086	11.086	11.079	11.078	11.086	11.079	11.086	11.087	11.087	10.587-11.587	11.083	0.004
	23 Bis(2-Chloroethoxy)met	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.830	10.330-11.330	+++++	+++++
	24 Benzoic acid	11.332	11.273	11.223	11.188	11.171	11.189	+++++	+++++	11.189	10.689-11.689	11.229	0.062
	25 2,4-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.033	10.533-11.533	+++++	+++++
	26 1,2,4-Trichlorobenzene	11.689	11.690	11.691	11.689	11.690	11.691	11.690	11.690	11.690	11.190-12.190	11.690	0.001
*	27 Naphthalene-d8	11.782	11.775	11.775	11.774	11.775	11.775	11.775	11.775	11.775	11.275-12.275	11.776	0.003
	28 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.326	10.826-11.826	+++++	+++++
	29 4-Chloroaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.457	10.957-11.957	+++++	+++++
	30 Hexachlorobutadiene	12.176	12.169	12.169	12.176	12.176	12.169	12.176	12.169	12.169	11.669-12.669	12.173	0.004
	31 4-Chloro-3-methylpheno	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.432	11.932-12.932	+++++	+++++
	32 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.710	12.210-13.210	+++++	+++++
	33 Hexachlorocyclopentadi	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.182	12.682-13.682	+++++	+++++
	34 2,4,6-Trichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.330	12.830-13.830	+++++	+++++
	35 2,4,5-Trichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.415	12.915-13.915	+++++	+++++
$	36 2-Fluorobiphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.484	12.984-13.984	+++++	+++++
	37 2-Chloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.686	13.186-14.186	+++++	+++++
	38 2-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.941	13.441-14.441	+++++	+++++
	39 Dimethylphthalate	14.885	14.877	14.878	14.877	14.877	14.878	14.877	14.878	14.878	14.378-15.378	14.878	0.003
	40 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.545	14.045-15.045	+++++	+++++
	41 2,6-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.506	14.006-15.006	+++++	+++++
*	42 Acenaphthene-d10	15.388	15.380	15.381	15.388	15.388	15.381	15.388	15.381	15.381	14.881-15.881	15.384	0.004
	43 3-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.785	14.285-15.285	+++++	+++++
	44 Acenaphthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.924	14.424-15.424	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230315.b\20230315.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	45 2,4-Dinitrophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.001	14.501-15.501	+++++	+++++
	46 Dibenzofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.248	14.748-15.748	+++++	+++++
	47 4-Nitrophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.171	14.671-15.671	+++++	+++++
	48 2,4-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.302	14.802-15.802	+++++	+++++
	49 Fluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.952	15.452-16.452	+++++	+++++
	50 Diethylphthalate	16.339	16.331	16.332	16.331	16.331	16.324	16.331	16.324	16.324	15.824-16.824	16.330	0.005
	51 4-Chlorophenyl-phenyle	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.952	15.452-16.452	+++++	+++++
	52 4-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.037	15.537-16.537	+++++	+++++
	53 4,6-Dinitro-2-methylph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.145	15.645-16.645	+++++	+++++
	54 N-Nitrosodiphenylamine	16.724	16.717	16.718	16.724	16.717	16.718	16.717	16.718	16.718	16.218-17.218	16.719	0.003
$	55 2,4,6-Tribromophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.477	15.977-16.977	+++++	+++++
	56 4-Bromophenyl-phenylet	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.939	16.439-17.439	+++++	+++++
	57 Hexachlorobenzene	17.797	17.797	17.798	17.797	17.797	17.790	17.797	17.798	17.798	17.298-18.298	17.797	0.003
	58 Pentachlorophenol	18.153	18.146	18.154	18.153	18.154	18.154	18.154	18.154	18.154	17.654-18.654	18.153	0.003
*	59 Phenanthrene-d10	18.424	18.417	18.425	18.424	18.424	18.418	18.424	18.417	18.417	17.917-18.917	18.422	0.004
	60 Phenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.899	17.399-18.399	+++++	+++++
	61 Anthracene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.991	17.491-18.491	+++++	+++++
	62 Carbazole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.324	17.824-18.824	+++++	+++++
	63 Di-n-butylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.152	18.652-19.652	+++++	+++++
	64 Fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.289	19.789-20.789	+++++	+++++
	65 Pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.715	20.215-21.215	+++++	+++++
$	66 Terphenyl-d14	21.542	21.542	21.543	21.542	21.542	21.543	21.542	21.543	21.543	21.043-22.043	21.543	0.000
	67 Butylbenzylphthalate	22.464	22.456	22.465	22.464	22.464	22.465	22.464	22.465	22.465	21.965-22.965	22.463	0.003
	68 Benzo(a)anthracene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.875	22.375-23.375	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230315.b\20230315.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
*	69 Chrysene-d12	23.455	23.455	23.456	23.455	23.455	23.456	23.455	23.456	23.456	22.956-23.956	23.455	0.000
	70 3,3'-Dichlorobenzidine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.844	22.344-23.344	+++++	+++++
	71 Chrysene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.952	22.452-23.452	+++++	+++++
	72 bis(2-Ethylhexyl)phtha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.007	22.507-23.507	+++++	+++++
	73 Di-n-octylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.990	23.490-24.490	+++++	+++++
	74 Benzo(b)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.687	24.187-25.187	+++++	+++++
	75 Benzo(k)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.725	24.225-25.225	+++++	+++++
	76 Benzo(a)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.283	24.783-25.783	+++++	+++++
*	77 Perylene-d12	26.188	26.188	26.189	26.188	26.188	26.181	26.188	26.189	26.189	25.689-26.689	26.187	0.003
	78 Indeno(1,2,3-cd)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.794	27.294-28.294	+++++	+++++
	79 Dibenzo(a,h)anthracene	29.033	29.018	29.019	29.010	29.010	29.003	29.010	29.019	29.019	28.519-29.519	29.015	0.009
	80 Benzo(g,h,i)perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	28.494	27.994-28.994	+++++	+++++
$	85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.238	16.738-17.738	+++++	+++++
$	86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	29.316	28.816-29.816	+++++	+++++
$	87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.007	25.507-26.507	+++++	+++++
$	88 Dibenz(a,h)anthracene-	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	44.609	44.109-45.109	+++++	+++++
$	89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.085	15.585-16.585	+++++	+++++
	90 N-Nitrosodimethylamine	4.941	4.933	4.926	4.941	4.941	4.941	4.941	4.949	4.949	4.449-5.449	4.939	0.007
	91 Aniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.305	7.805-8.805	+++++	+++++
	92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.615	21.115-22.115	+++++	+++++
	93 Benzidine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.529	20.029-21.029	+++++	+++++
$	95 D10-1-methylnaphthalen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.686	17.186-18.186	+++++	+++++
	96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.540	14.040-15.040	+++++	+++++
	97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.957	26.457-27.457	+++++	+++++

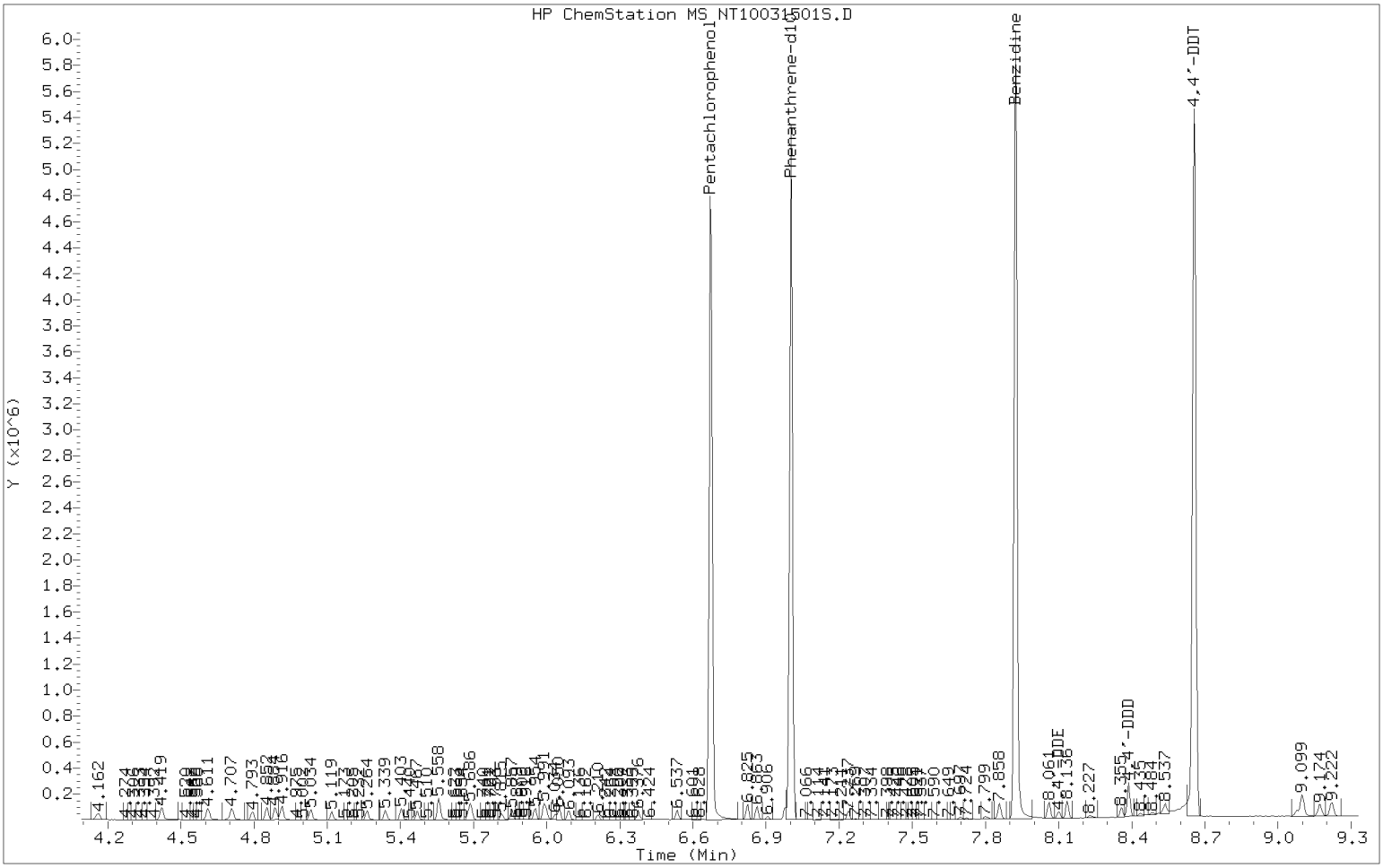
ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

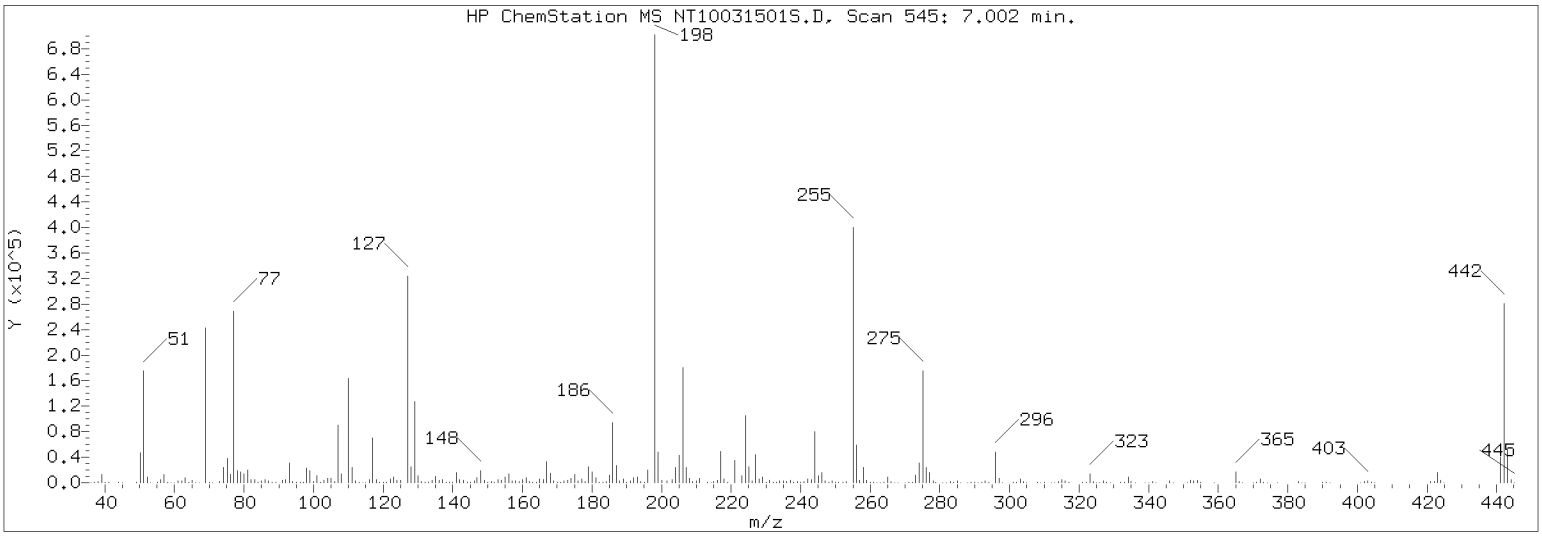
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230315.b\20230315.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
98 Retene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.609	19.109-20.109	+++++	+++++
99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.438	24.938-25.938	+++++	+++++
100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.384	25.884-26.884	+++++	+++++
101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.881	43.381-44.381	+++++	+++++
102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	45.573	45.073-46.073	+++++	+++++
103 Pyridine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.535	4.035-5.035	+++++	+++++

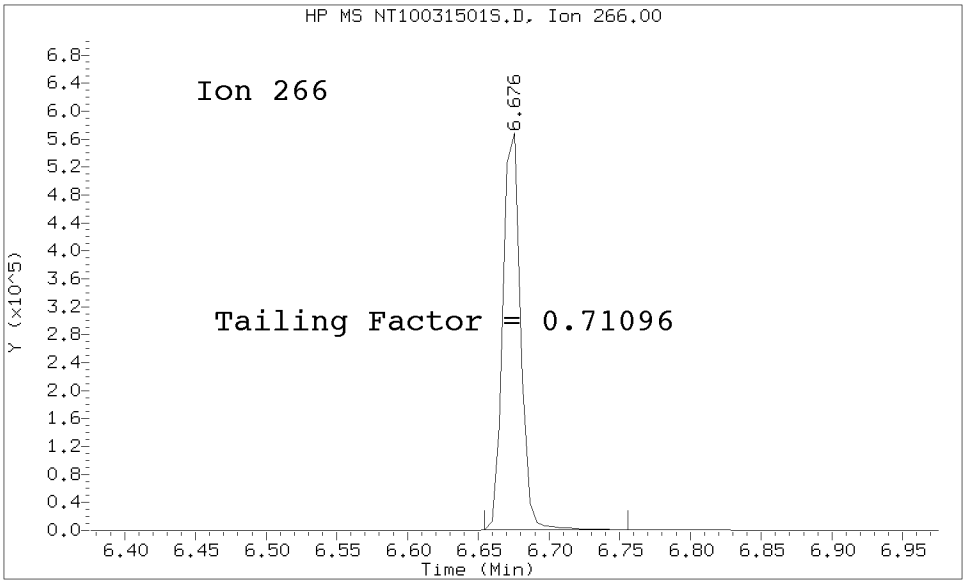
DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20230315.b/20230315.b/NT10031501S.D/NT10031501S.D
Method Used: \20230315.b\20230315.b\DFTPP8270E.m Inst: nt10
Injection Date: 15-MAR-2023 20:19 Operator: JGR
Sample Info: SLC0238-TUN1 SLC0238-TUN1
Report Date: 03/16/2023 14:49



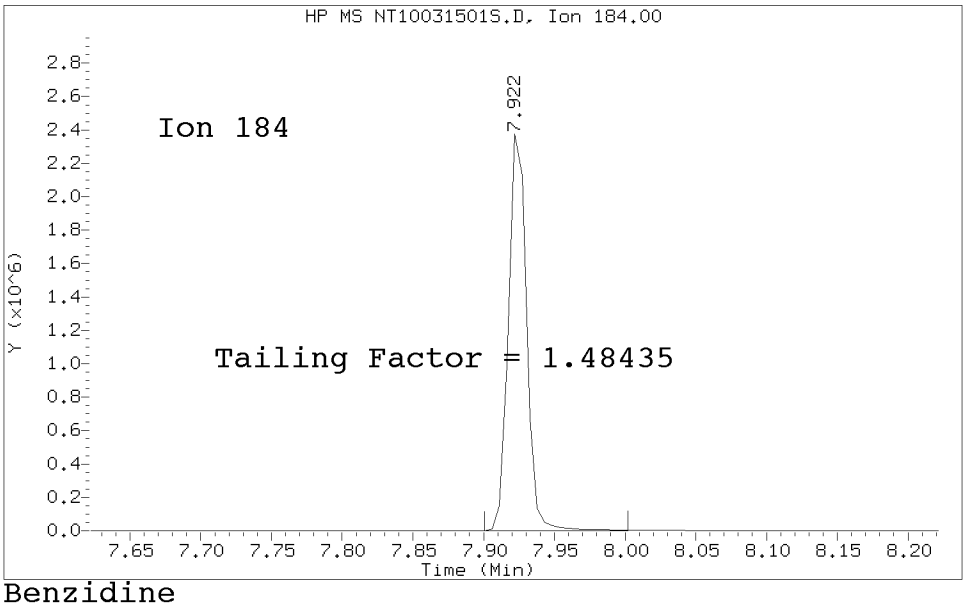


Datafile Analyzed: /20230315.b/20230315.b/NT10031501S.D/NT10031501S.D
Method Used: \20230315.b\20230315.b\DFTPP8270E.m\sw846ddt.m Inst: nt10
Injection Date: 15-MAR-2023 20:19 Operator: JGR
Sample Info: SEQ-TUN1
Report Date: 03/16/2023 14:49



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

Tail Factor = 0.711 Maximum Allowed = 2.0



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

Tail Factor = 1.484 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

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

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

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

Tuning Sample, nt10.i/20230315.b/20230315.b/NT10031501S.D, *** PASSED ***

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

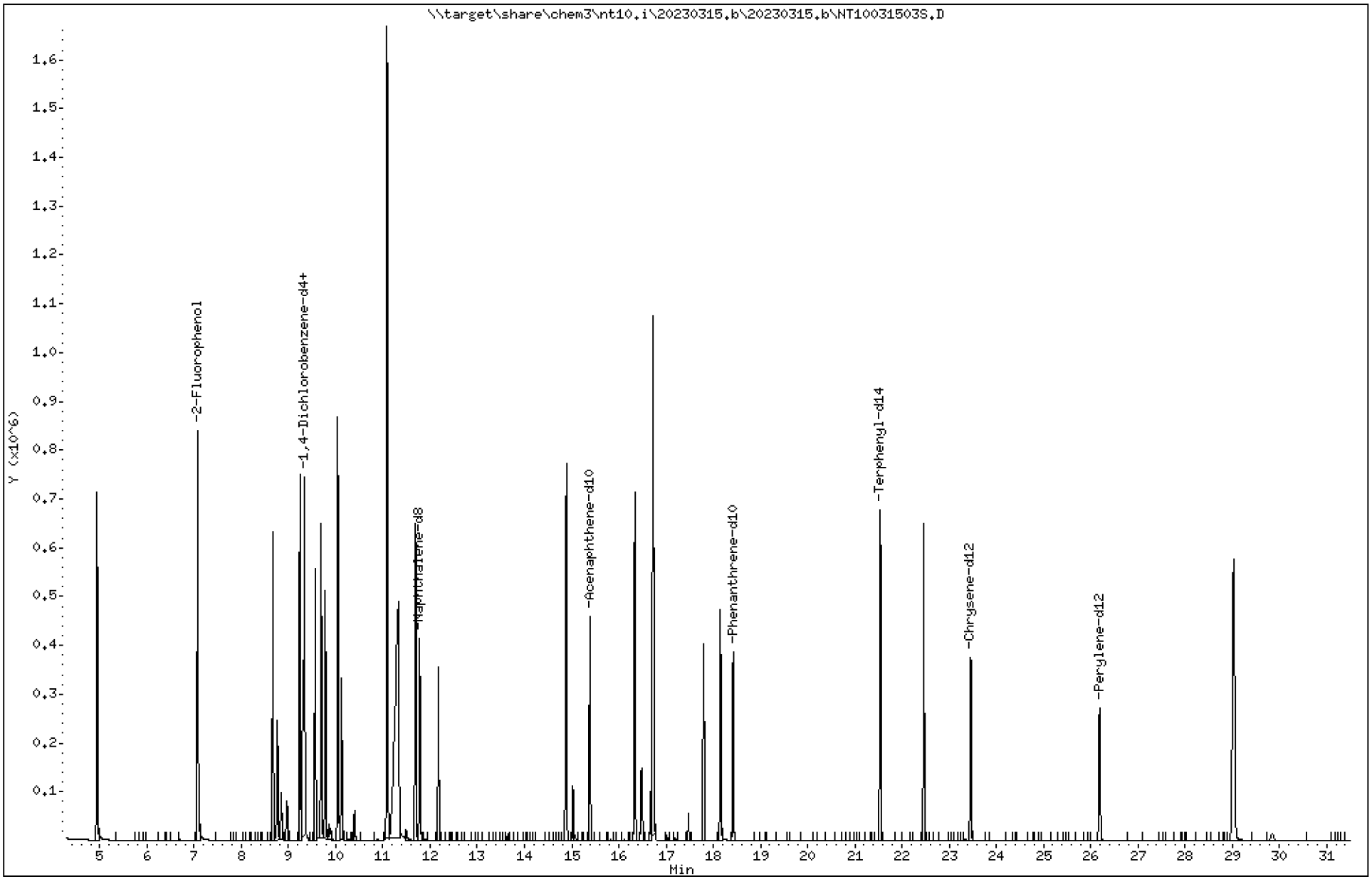
Data File: NT10031501S.D
Spectrum: Avg. Scans 544-546 (7.00), Background Scan 536
Location of Maximum: 198.00
Number of points: 316

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

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

Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031503S.D
Date : 15-MAR-2023 21:12
Client ID:
Sample Info: SLC0238-CAL8
Volume Injected (uL): 1.0
Column phase: ZB-5msi

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



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031503S.D
Lab Smp Id: SLC0238-CAL8
Inj Date : 15-MAR-2023 21:12 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0238-CAL8
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 3 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	7.072	7.073	(0.760)	838030	15.0000	14.36
3	Phenol	94	8.664	8.664	(0.931)	729755	10.0000	9.116
7	1,3-Dichlorobenzene	146	9.236	9.236	(0.992)	665810	10.0000	8.888
* 8	1,4-Dichlorobenzene-d4	152	9.306	9.298	(1.000)	192425	4.00000	
9	1,4-Dichlorobenzene	146	9.329	9.329	(1.002)	654897	10.0000	9.056
11	Benzyl alcohol	79	9.562	9.570	(1.028)	491495	10.0000	10.59
12	1,2-Dichlorobenzene	146	9.686	9.686	(1.041)	638455	10.0000	8.978
13	2-Methylphenol	108	9.779	9.772	(1.051)	553708	10.0000	9.982
15	4-Methylphenol	108	10.043	10.036	(1.079)	586952	10.0000	10.18
16	N-Nitroso-di-n-propylamine	70	10.121	10.113	(1.088)	409406	10.0000	10.04
22	2,4-Dimethylphenol	107	11.085	11.087	(0.941)	1130269	20.0000	18.95
24	Benzoic acid	105	11.332	11.189	(0.962)	1607035	40.0000	39.86
26	1,2,4-Trichlorobenzene	180	11.689	11.690	(0.992)	544255	10.0000	9.073
* 27	Naphthalene-d8	136	11.781	11.775	(1.000)	689875	4.00000	
30	Hexachlorobutadiene	225	12.175	12.169	(1.033)	341241	10.0000	9.357
39	Dimethylphthalate	163	14.884	14.877	(0.967)	1011946	10.0000	9.386
* 42	Acenaphthene-d10	162	15.387	15.380	(1.000)	341663	4.00000	
50	Diethylphthalate	149	16.338	16.324	(1.062)	1156658	10.0000	10.36
54	N-Nitrosodiphenylamine	169	16.724	16.717	(0.908)	841708	10.0000	9.623
57	Hexachlorobenzene	284	17.797	17.798	(0.966)	358890	10.0000	9.166

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	58 Pentachlorophenol	266	18.153	18.154	(0.985)	496304	20.0000	19.97
*	59 Phenanthrene-d10	188	18.424	18.417	(1.000)	651934	4.00000	
$	66 Terphenyl-d14	244	21.542	21.543	(0.918)	813450	10.0000	10.36
	67 Butylbenzylphthalate	149	22.463	22.465	(0.958)	722761	10.0000	9.997
*	69 Chrysene-d12	240	23.454	23.455	(1.000)	482051	4.00000	
*	77 Perylene-d12	264	26.187	26.188	(1.000)	502718	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.033	29.019	(1.109)	1559411	10.0000	9.987
	90 N-Nitrosodimethylamine	74	4.940	4.948	(0.531)	652075	20.0000	17.62

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031503S.D
Lab Smp Id: SLC0238-CAL8
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 23:06
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	188081	94041	376162	192425	2.31
27 Naphthalene-d8	674549	337275	1349098	689875	2.27
42 Acenaphthene-d10	328275	164138	656550	341663	4.08
59 Phenanthrene-d10	597140	298570	1194280	651934	9.18
69 Chrysene-d12	466503	233252	933006	482051	3.33
77 Perylene-d12	518203	259102	1036406	502718	-2.99

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.31	0.08
27 Naphthalene-d8	11.77	11.27	12.27	11.78	0.06
42 Acenaphthene-d10	15.39	14.89	15.89	15.39	-0.00
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	-0.00
69 Chrysene-d12	23.45	22.95	23.95	23.45	-0.00
77 Perylene-d12	26.19	25.69	26.69	26.19	-0.00

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

REVIEW SUMMARY FOR FILE - NT10031503S.D

Lab ID: SLC0238-CAL8
nt10.i, 20230315.b\20230315.b\SIMABN2.m,   15-MAR-2023 21:12

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.962	0.000	0.9618	Benzoic acid

RRT check based on Ccal File: 20230315.b/NT10031510S.D

On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031504S.D

Date : 15-MAR-2023 21:50

Client ID:

Instrument: nt10.i

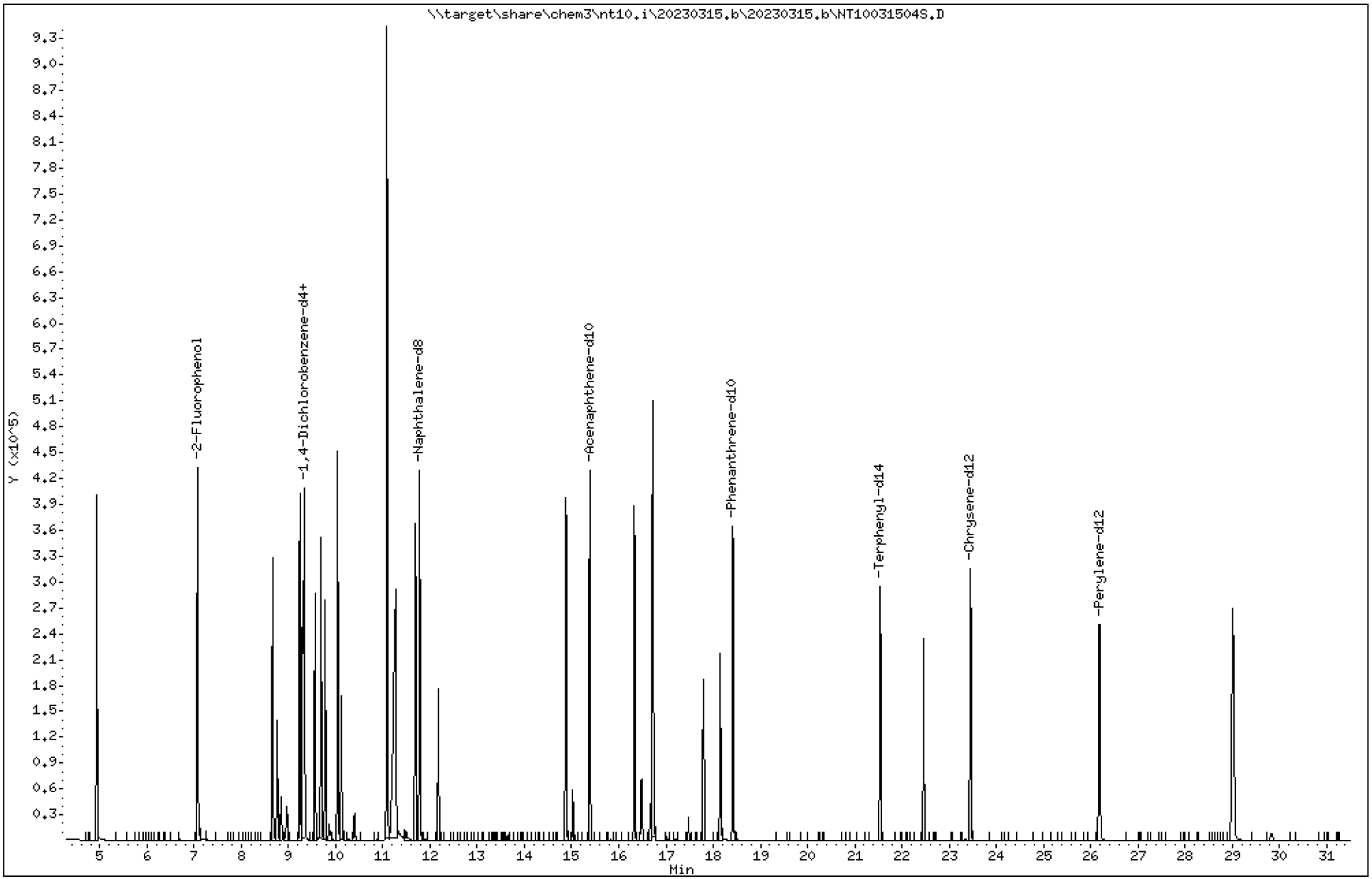
Sample Info: SLC0238-CAL7

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031504S.D
Lab Smp Id: SLC0238-CAL7
Inj Date : 15-MAR-2023 21:50 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0238-CAL7
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 4 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	7.073	7.073	(0.761)	423280	7.50000	7.448
3	Phenol	94	8.664	8.664	(0.932)	380220	5.00000	4.876
7	1,3-Dichlorobenzene	146	9.236	9.236	(0.993)	338879	5.00000	4.645
* 8	1,4-Dichlorobenzene-d4	152	9.298	9.298	(1.000)	187419	4.00000	
9	1,4-Dichlorobenzene	146	9.329	9.329	(1.003)	329824	5.00000	4.683
11	Benzyl alcohol	79	9.562	9.570	(1.028)	252707	5.00000	5.590
12	1,2-Dichlorobenzene	146	9.686	9.686	(1.042)	322928	5.00000	4.662
13	2-Methylphenol	108	9.772	9.772	(1.051)	278276	5.00000	5.151
15	4-Methylphenol	108	10.036	10.036	(1.079)	298436	5.00000	5.316
16	N-Nitroso-di-n-propylamine	70	10.113	10.113	(1.088)	209335	5.00000	5.272
22	2,4-Dimethylphenol	107	11.086	11.087	(0.942)	583450	10.0000	9.891
24	Benzoic acid	105	11.272	11.189	(0.957)	736328	20.0000	20.81
26	1,2,4-Trichlorobenzene	180	11.689	11.690	(0.993)	274164	5.00000	4.620
* 27	Naphthalene-d8	136	11.774	11.775	(1.000)	682446	4.00000	
30	Hexachlorobutadiene	225	12.168	12.169	(1.033)	169468	5.00000	4.697
39	Dimethylphthalate	163	14.877	14.877	(0.967)	507054	5.00000	4.846
* 42	Acenaphthene-d10	162	15.380	15.380	(1.000)	331603	4.00000	
50	Diethylphthalate	149	16.331	16.324	(1.062)	561334	5.00000	5.178
54	N-Nitrosodiphenylamine	169	16.716	16.717	(0.908)	409745	5.00000	5.102
57	Hexachlorobenzene	284	17.797	17.798	(0.966)	174645	5.00000	4.857

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
58	Pentachlorophenol	266	18.145	18.154	(0.985)	215193	10.0000	10.18
* 59	Phenanthrene-d10	188	18.416	18.417	(1.000)	598629	4.00000	
$ 66	Terphenyl-d14	244	21.542	21.543	(0.918)	332738	5.00000	5.245
67	Butylbenzylphthalate	149	22.456	22.465	(0.957)	271734	5.00000	5.005
* 69	Chrysene-d12	240	23.454	23.455	(1.000)	389338	4.00000	
* 77	Perylene-d12	264	26.187	26.188	(1.000)	466441	4.00000	
79	Dibenzo(a,h)anthracene	278	29.017	29.019	(1.108)	751404	5.00000	5.052
90	N-Nitrosodimethylamine	74	4.933	4.948	(0.531)	345951	10.0000	9.597

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031504S.D
Lab Smp Id: SLC0238-CAL7
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 23:06
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	188081	94041	376162	187419	-0.35
27 Naphthalene-d8	674549	337275	1349098	682446	1.17
42 Acenaphthene-d10	328275	164138	656550	331603	1.01
59 Phenanthrene-d10	597140	298570	1194280	598629	0.25
69 Chrysene-d12	466503	233252	933006	389338	-16.54
77 Perylene-d12	518203	259102	1036406	466441	-9.99

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.30	0.00
27 Naphthalene-d8	11.77	11.27	12.27	11.77	0.00
42 Acenaphthene-d10	15.39	14.89	15.89	15.38	-0.05
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	-0.04
69 Chrysene-d12	23.45	22.95	23.95	23.45	0.00
77 Perylene-d12	26.19	25.69	26.69	26.19	0.00

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

REVIEW SUMMARY FOR FILE - NT10031504S.D

Lab ID: SLC0238-CAL7
nt10.i, 20230315.b\20230315.b\SIMABN2.m,   15-MAR-2023 21:50

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.957	0.000	0.9574	Benzoic acid

RRT check based on Ccal File: 20230315.b/NT10031510S.D

On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031505S.D

Date : 15-MAR-2023 22:28

Client ID:

Instrument: nt10.i

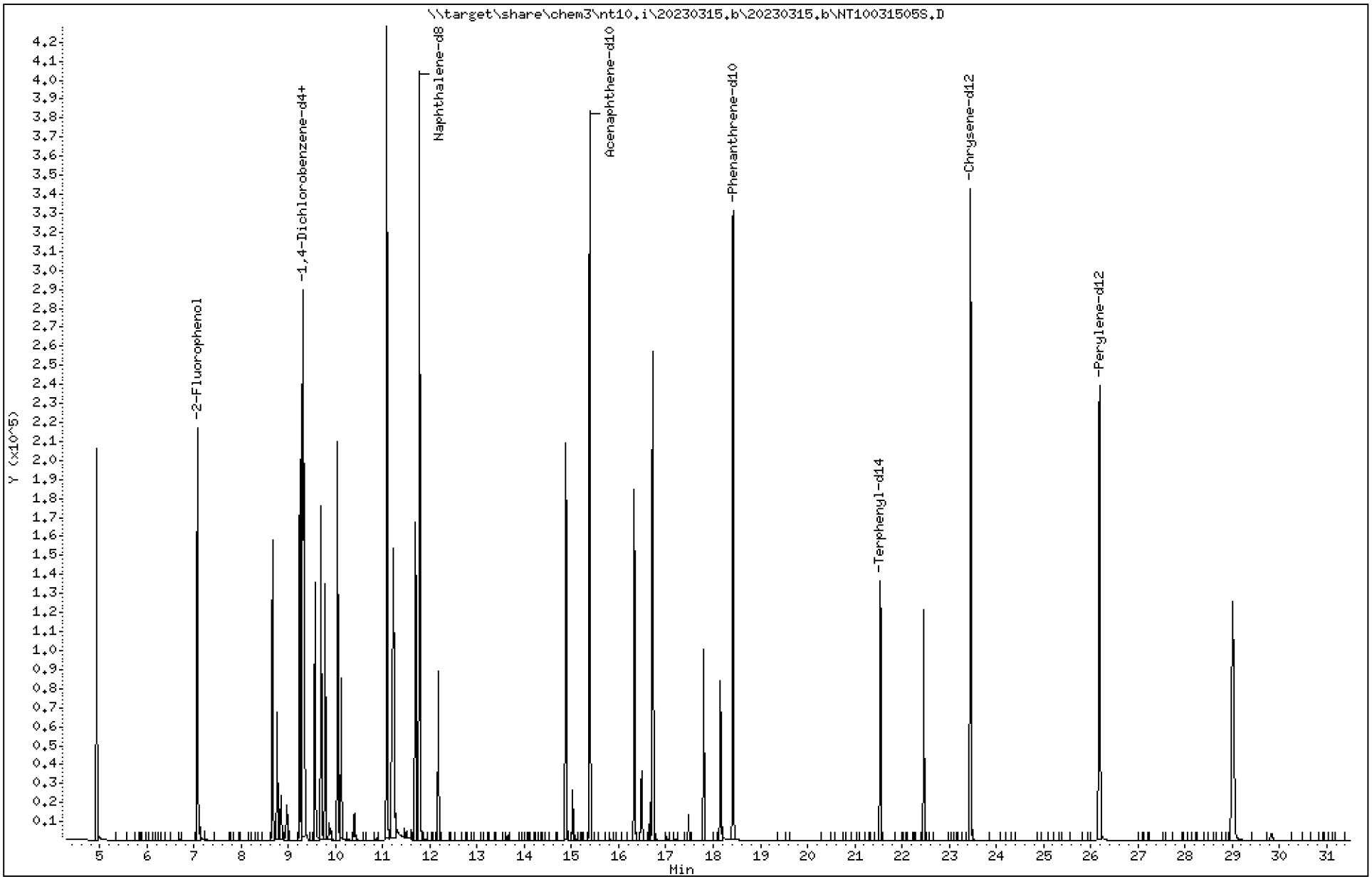
Sample Info: SLC0238-CAL6

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031505S.D
Lab Smp Id: SLC0238-CAL6
Inj Date : 15-MAR-2023 22:28 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0238-CAL6
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 5 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.065	7.073	(0.760)	210389	3.75000	4.001
	3 Phenol	94	8.657	8.664	(0.931)	190392	2.50000	2.639
	7 1,3-Dichlorobenzene	146	9.236	9.236	(0.993)	168055	2.50000	2.489
*	8 1,4-Dichlorobenzene-d4	152	9.299	9.298	(1.000)	173412	4.00000	
	9 1,4-Dichlorobenzene	146	9.330	9.329	(1.003)	163092	2.50000	2.503
	11 Benzyl alcohol	79	9.562	9.570	(1.028)	120208	2.50000	2.874
	12 1,2-Dichlorobenzene	146	9.687	9.686	(1.042)	159585	2.50000	2.490
	13 2-Methylphenol	108	9.772	9.772	(1.051)	134327	2.50000	2.687
	15 4-Methylphenol	108	10.036	10.036	(1.079)	141444	2.50000	2.723
	16 N-Nitroso-di-n-propylamine	70	10.114	10.113	(1.088)	100651	2.50000	2.740
	22 2,4-Dimethylphenol	107	11.078	11.087	(0.941)	286604	5.00000	5.311
	24 Benzoic acid	105	11.222	11.189	(0.953)	285274	10.0000	9.309
	26 1,2,4-Trichlorobenzene	180	11.690	11.690	(0.993)	133425	2.50000	2.458
*	27 Naphthalene-d8	136	11.775	11.775	(1.000)	624286	4.00000	
	30 Hexachlorobutadiene	225	12.169	12.169	(1.033)	82773	2.50000	2.508
	39 Dimethylphthalate	163	14.878	14.877	(0.967)	248536	2.50000	2.538
*	42 Acenaphthene-d10	162	15.381	15.380	(1.000)	310309	4.00000	
	50 Diethylphthalate	149	16.332	16.324	(1.062)	274020	2.50000	2.701
	54 N-Nitrosodiphenylamine	169	16.717	16.717	(0.907)	198446	2.50000	2.666
	57 Hexachlorobenzene	284	17.798	17.798	(0.966)	83753	2.50000	2.513

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	58 Pentachlorophenol	266	18.154	18.154	(0.985)	93572	5.00000	4.940
*	59 Phenanthrene-d10	188	18.425	18.417	(1.000)	554860	4.00000	
$	66 Terphenyl-d14	244	21.543	21.543	(0.918)	167011	2.50000	2.661
	67 Butylbenzylphthalate	149	22.464	22.465	(0.958)	133147	2.50000	2.556
*	69 Chrysene-d12	240	23.455	23.455	(1.000)	385144	4.00000	
*	77 Perylene-d12	264	26.188	26.188	(1.000)	456369	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.018	29.019	(1.108)	368157	2.50000	2.493
	90 N-Nitrosodimethylamine	74	4.925	4.948	(0.530)	174819	5.00000	5.242

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031505S.D
Lab Smp Id: SLC0238-CAL6
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 23:06
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	188081	94041	376162	173412	-7.80
27 Naphthalene-d8	674549	337275	1349098	624286	-7.45
42 Acenaphthene-d10	328275	164138	656550	310309	-5.47
59 Phenanthrene-d10	597140	298570	1194280	554860	-7.08
69 Chrysene-d12	466503	233252	933006	385144	-17.44
77 Perylene-d12	518203	259102	1036406	456369	-11.93

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.30	0.00
27 Naphthalene-d8	11.77	11.27	12.27	11.78	0.01
42 Acenaphthene-d10	15.39	14.89	15.89	15.38	-0.04
59 Phenanthrene-d10	18.42	17.92	18.92	18.43	0.01
69 Chrysene-d12	23.45	22.95	23.95	23.46	0.00
77 Perylene-d12	26.19	25.69	26.69	26.19	0.00

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

REVIEW SUMMARY FOR FILE - NT10031505S.D

Lab ID: SLC0238-CAL6
nt10.i, 20230315.b\20230315.b\SIMABN2.m,   15-MAR-2023 22:28

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.953	0.000	0.9531	Benzoic acid

RRT check based on Ccal File: 20230315.b/NT10031510S.D

On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031506S.D

Date : 15-MAR-2023 23:06

Client ID:

Instrument: nt10.i

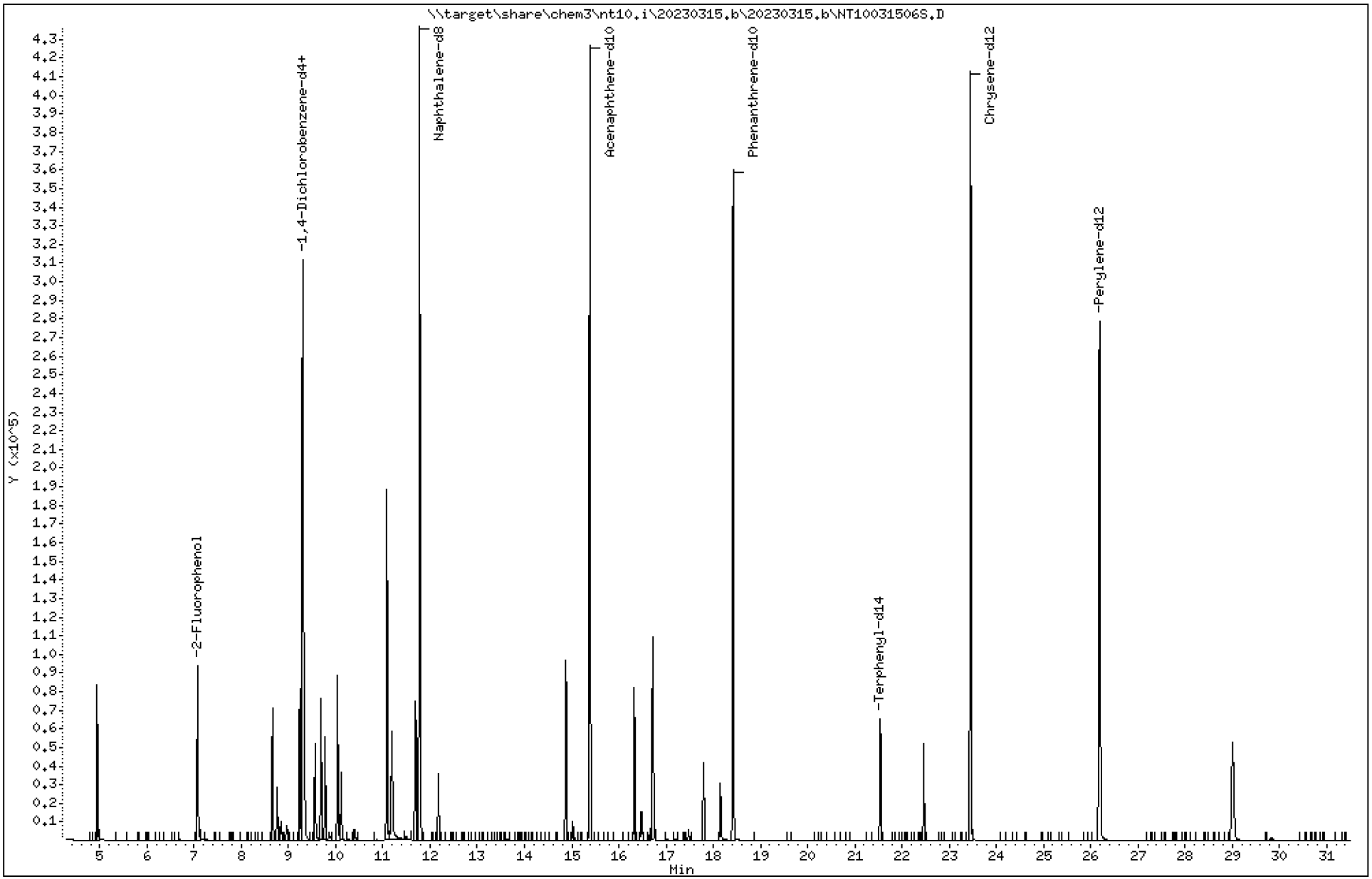
Sample Info: SLC0238-CAL5

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031506S.D
Lab Smp Id: SLC0238-CAL5
Inj Date : 15-MAR-2023 23:06 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0238-CAL5
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	7.072	7.073	(0.761)	90798	1.50000	1.592
3	Phenol	94	8.656	8.664	(0.931)	82355	1.00000	1.052
7	1,3-Dichlorobenzene	146	9.236	9.236	(0.993)	73541	1.00000	1.004
* 8	1,4-Dichlorobenzene-d4	152	9.298	9.298	(1.000)	188081	4.00000	
9	1,4-Dichlorobenzene	146	9.329	9.329	(1.003)	71256	1.00000	1.008
11	Benzyl alcohol	79	9.562	9.570	(1.028)	48450	1.00000	1.068
12	1,2-Dichlorobenzene	146	9.686	9.686	(1.042)	70084	1.00000	1.008
13	2-Methylphenol	108	9.772	9.772	(1.051)	56161	1.00000	1.036
15	4-Methylphenol	108	10.036	10.036	(1.079)	59710	1.00000	1.060
16	N-Nitroso-di-n-propylamine	70	10.113	10.113	(1.088)	42270	1.00000	1.061
22	2,4-Dimethylphenol	107	11.077	11.087	(0.941)	125195	2.00000	2.147
24	Benzoic acid	105	11.187	11.189	(0.950)	77741	4.00000	2.416
26	1,2,4-Trichlorobenzene	180	11.689	11.690	(0.993)	58641	1.00000	0.9998
* 27	Naphthalene-d8	136	11.774	11.775	(1.000)	674549	4.00000	
30	Hexachlorobutadiene	225	12.176	12.169	(1.034)	35610	1.00000	0.9986
39	Dimethylphthalate	163	14.877	14.877	(0.967)	108743	1.00000	1.050
* 42	Acenaphthene-d10	162	15.387	15.380	(1.000)	328275	4.00000	
50	Diethylphthalate	149	16.330	16.324	(1.061)	117125	1.00000	1.091
54	N-Nitrosodiphenylamine	169	16.724	16.717	(0.908)	87266	1.00000	1.089
57	Hexachlorobenzene	284	17.797	17.798	(0.966)	36131	1.00000	1.007

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
58	Pentachlorophenol	266	18.153	18.154	(0.985)	33609	2.00000	1.681
* 59	Phenanthrene-d10	188	18.424	18.417	(1.000)	597140	4.00000	
$ 66	Terphenyl-d14	244	21.542	21.543	(0.918)	75884	1.00000	0.9983
67	Butylbenzylphthalate	149	22.463	22.465	(0.958)	56297	1.00000	0.9093
* 69	Chrysene-d12	240	23.454	23.455	(1.000)	466503	4.00000	
* 77	Perylene-d12	264	26.187	26.188	(1.000)	518203	4.00000	
79	Dibenzo(a,h)anthracene	278	29.009	29.019	(1.108)	155363	1.00000	0.9181
90	N-Nitrosodimethylamine	74	4.940	4.948	(0.531)	75637	2.00000	2.091

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031506S.D
Lab Smp Id: SLC0238-CAL5
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 23:06
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	188081	94041	376162	188081	0.00
27 Naphthalene-d8	674549	337275	1349098	674549	0.00
42 Acenaphthene-d10	328275	164138	656550	328275	0.00
59 Phenanthrene-d10	597140	298570	1194280	597140	0.00
69 Chrysene-d12	466503	233252	933006	466503	0.00
77 Perylene-d12	518203	259102	1036406	518203	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.30	0.00
27 Naphthalene-d8	11.77	11.27	12.27	11.77	0.00
42 Acenaphthene-d10	15.39	14.89	15.89	15.39	0.00
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	0.00
69 Chrysene-d12	23.45	22.95	23.95	23.45	0.00
77 Perylene-d12	26.19	25.69	26.69	26.19	0.00

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

REVIEW SUMMARY FOR FILE - NT10031506S.D

Lab ID: SLC0238-CAL5
nt10.i, 20230315.b\20230315.b\SIMABN2.m,   15-MAR-2023 23:06

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.950	0.000	0.9502	Benzoic acid

RRT check based on Ccal File: 20230315.b/NT10031510S.D

On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031507S.D

Date : 15-MAR-2023 23:44

Client ID:

Instrument: nt10.i

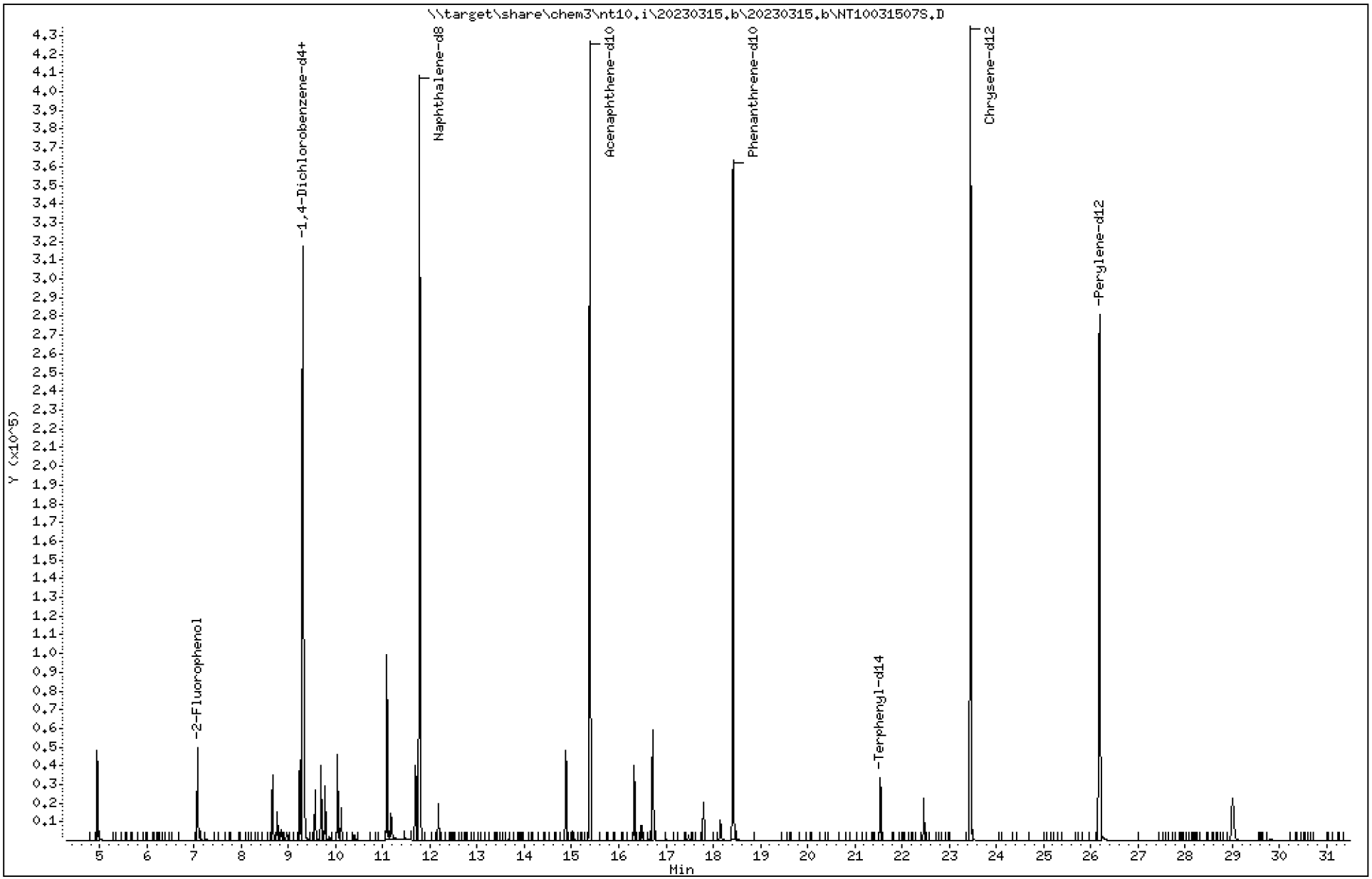
Sample Info: SLC0238-CAL4

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031507S.D
Lab Smp Id: SLC0238-CAL4
Inj Date : 15-MAR-2023 23:44 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0238-CAL4
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	7.073	7.073	(0.761)	45949	0.75000	0.7906
3	Phenol	94	8.657	8.664	(0.931)	42286	0.50000	0.5304
7	1,3-Dichlorobenzene	146	9.236	9.236	(0.993)	38003	0.50000	0.5094
* 8	1,4-Dichlorobenzene-d4	152	9.298	9.298	(1.000)	191648	4.00000	
9	1,4-Dichlorobenzene	146	9.329	9.329	(1.003)	36555	0.50000	0.5076
11	Benzyl alcohol	79	9.562	9.570	(1.028)	23988	0.50000	0.5190
12	1,2-Dichlorobenzene	146	9.686	9.686	(1.042)	36410	0.50000	0.5141
13	2-Methylphenol	108	9.772	9.772	(1.051)	28358	0.50000	0.5133
15	4-Methylphenol	108	10.036	10.036	(1.079)	29752	0.50000	0.5183
16	N-Nitroso-di-n-propylamine	70	10.113	10.113	(1.088)	21127	0.50000	0.5204
22	2,4-Dimethylphenol	107	11.086	11.087	(0.942)	63684	1.00000	1.084
24	Benzoic acid	105	11.171	11.189	(0.949)	21037	2.00000	0.6535
26	1,2,4-Trichlorobenzene	180	11.689	11.690	(0.993)	30281	0.50000	0.5124
* 27	Naphthalene-d8	136	11.774	11.775	(1.000)	679665	4.00000	
30	Hexachlorobutadiene	225	12.176	12.169	(1.034)	18287	0.50000	0.5089
39	Dimethylphthalate	163	14.877	14.877	(0.967)	54277	0.50000	0.5122
* 42	Acenaphthene-d10	162	15.387	15.380	(1.000)	335786	4.00000	
50	Diethylphthalate	149	16.331	16.324	(1.061)	57205	0.50000	0.5211
54	N-Nitrosodiphenylamine	169	16.716	16.717	(0.907)	43874	0.50000	0.5326
57	Hexachlorobenzene	284	17.797	17.798	(0.966)	18601	0.50000	0.5044

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	58 Pentachlorophenol	266	18.153	18.154	(0.985)	13495	1.00000	0.6606
*	59 Phenanthrene-d10	188	18.424	18.417	(1.000)	613961	4.00000	
$	66 Terphenyl-d14	244	21.542	21.543	(0.918)	37662	0.50000	0.4975
	67 Butylbenzylphthalate	149	22.463	22.465	(0.958)	24470	0.50000	0.3991
*	69 Chrysene-d12	240	23.454	23.455	(1.000)	464623	4.00000	
*	77 Perylene-d12	264	26.187	26.188	(1.000)	521317	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.010	29.019	(1.108)	72052	0.50000	0.4220
	90 N-Nitrosodimethylamine	74	4.941	4.948	(0.531)	39414	1.00000	1.069

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031507S.D
Lab Smp Id: SLC0238-CAL4
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 23:06
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	188081	94041	376162	191648	1.90
27 Naphthalene-d8	674549	337275	1349098	679665	0.76
42 Acenaphthene-d10	328275	164138	656550	335786	2.29
59 Phenanthrene-d10	597140	298570	1194280	613961	2.82
69 Chrysene-d12	466503	233252	933006	464623	-0.40
77 Perylene-d12	518203	259102	1036406	521317	0.60

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.30	0.00
27 Naphthalene-d8	11.77	11.27	12.27	11.77	0.00
42 Acenaphthene-d10	15.39	14.89	15.89	15.39	0.00
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	0.00
69 Chrysene-d12	23.45	22.95	23.95	23.45	0.00
77 Perylene-d12	26.19	25.69	26.69	26.19	0.00

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

REVIEW SUMMARY FOR FILE - NT10031507S.D

Lab ID: SLC0238-CAL4
nt10.i, 20230315.b\20230315.b\SIMABN2.m,   15-MAR-2023 23:44

RT	CO-ELUTION COMPOUNDS
	NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.949	0.000	0.9487	Benzoic acid

RRT check based on Ccal File: 20230315.b/NT10031510S.D

On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031508S.D

Date : 16-MAR-2023 00:22

Client ID:

Instrument: nt10.i

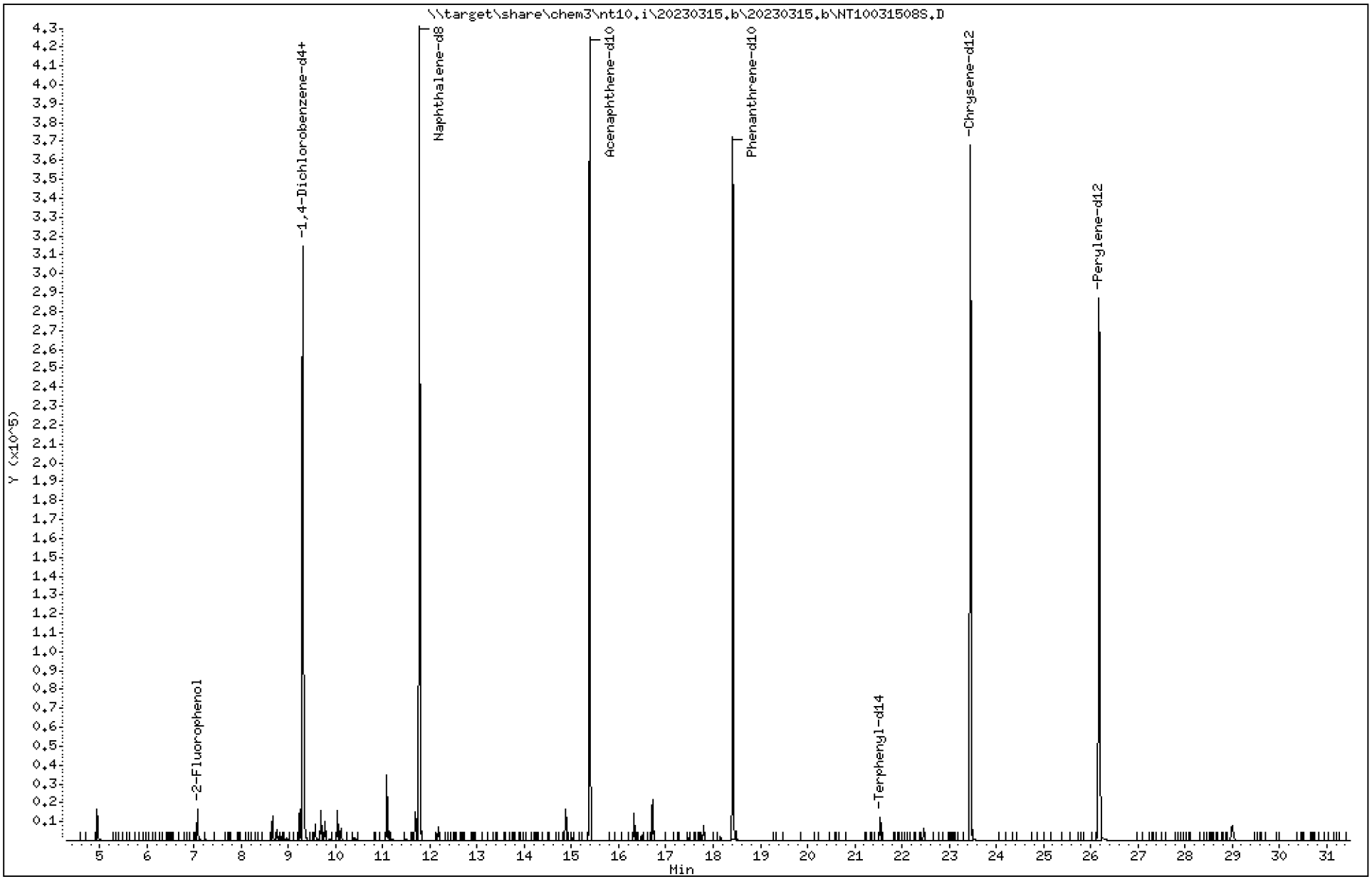
Sample Info: SLC0238-CAL3

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031508S.D
Lab Smp Id: SLC0238-CAL3
Inj Date : 16-MAR-2023 00:22 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0238-CAL3
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	7.073	7.073	(0.761)	16956	0.30000	0.2964
3	Phenol	94	8.657	8.664	(0.931)	15852	0.20000	0.2020
7	1,3-Dichlorobenzene	146	9.236	9.236	(0.993)	15032	0.20000	0.2047
* 8	1,4-Dichlorobenzene-d4	152	9.299	9.298	(1.000)	188644	4.00000	
9	1,4-Dichlorobenzene	146	9.330	9.329	(1.003)	14441	0.20000	0.2037
11	Benzyl alcohol	79	9.562	9.570	(1.028)	8244	0.20000	0.1812
12	1,2-Dichlorobenzene	146	9.687	9.686	(1.042)	14306	0.20000	0.2052
13	2-Methylphenol	108	9.772	9.772	(1.051)	10287	0.20000	0.1892
15	4-Methylphenol	108	10.036	10.036	(1.079)	10727	0.20000	0.1898
16	N-Nitroso-di-n-propylamine	70	10.114	10.113	(1.088)	7586	0.20000	0.1898
22	2,4-Dimethylphenol	107	11.078	11.087	(0.941)	23302	0.40000	0.4059
24	Benzoic acid	105	11.189	11.189	(0.950)	891	0.80000	0.02840(M)
26	1,2,4-Trichlorobenzene	180	11.690	11.690	(0.993)	11744	0.20000	0.2034
* 27	Naphthalene-d8	136	11.775	11.775	(1.000)	664117	4.00000	
30	Hexachlorobutadiene	225	12.169	12.169	(1.033)	7079	0.20000	0.2016
39	Dimethylphthalate	163	14.878	14.877	(0.967)	20353	0.20000	0.1965
* 42	Acenaphthene-d10	162	15.381	15.380	(1.000)	328147	4.00000	
50	Diethylphthalate	149	16.324	16.324	(1.061)	20971	0.20000	0.1955
54	N-Nitrosodiphenylamine	169	16.717	16.717	(0.908)	16188	0.20000	0.2000
57	Hexachlorobenzene	284	17.790	17.798	(0.966)	7274	0.20000	0.2008

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	58 Pentachlorophenol	266	18.154	18.154	(0.986)	3337	0.40000	0.1667
*	59 Phenanthrene-d10	188	18.417	18.417	(1.000)	603272	4.00000	
$	66 Terphenyl-d14	244	21.543	21.543	(0.918)	14479	0.20000	0.1895
	67 Butylbenzylphthalate	149	22.464	22.465	(0.958)	7787	0.20000	0.1262
*	69 Chrysene-d12	240	23.455	23.455	(1.000)	468991	4.00000	
*	77 Perylene-d12	264	26.181	26.188	(1.000)	525052	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.003	29.019	(1.108)	24266	0.20000	0.1409
	90 N-Nitrosodimethylamine	74	4.941	4.948	(0.531)	14672	0.40000	0.4044

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031508S.D
Lab Smp Id: SLC0238-CAL3
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 23:06
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	188081	94041	376162	188644	0.30
27 Naphthalene-d8	674549	337275	1349098	664117	-1.55
42 Acenaphthene-d10	328275	164138	656550	328147	-0.04
59 Phenanthrene-d10	597140	298570	1194280	603272	1.03
69 Chrysene-d12	466503	233252	933006	468991	0.53
77 Perylene-d12	518203	259102	1036406	525052	1.32

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.30	0.00
27 Naphthalene-d8	11.77	11.27	12.27	11.78	0.01
42 Acenaphthene-d10	15.39	14.89	15.89	15.38	-0.04
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	-0.04
69 Chrysene-d12	23.45	22.95	23.95	23.46	0.00
77 Perylene-d12	26.19	25.69	26.69	26.18	-0.03

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

REVIEW SUMMARY FOR FILE - NT10031508S.D

Lab ID: SLC0238-CAL3
nt10.i, 20230315.b\20230315.b\SIMABN2.m,   16-MAR-2023 00:22

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.950	0.000	0.9502	Benzoic acid

RRT check based on Ccal File: 20230315.b/NT10031510S.D

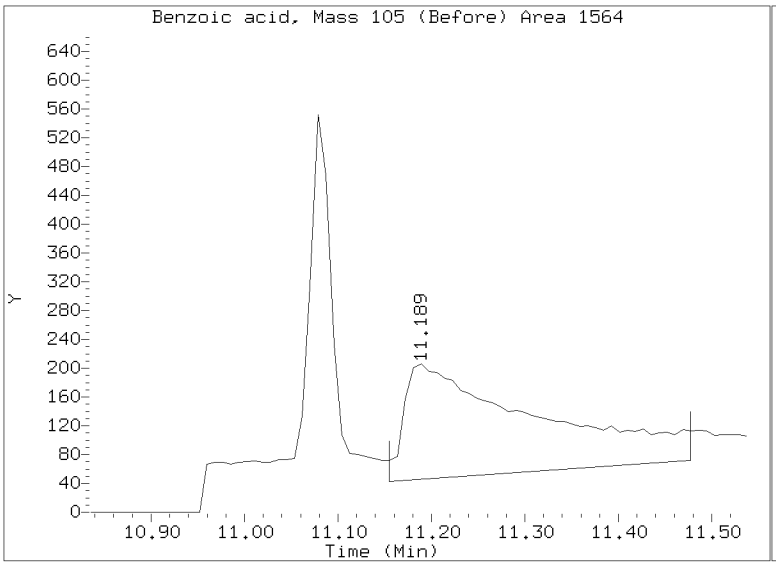
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

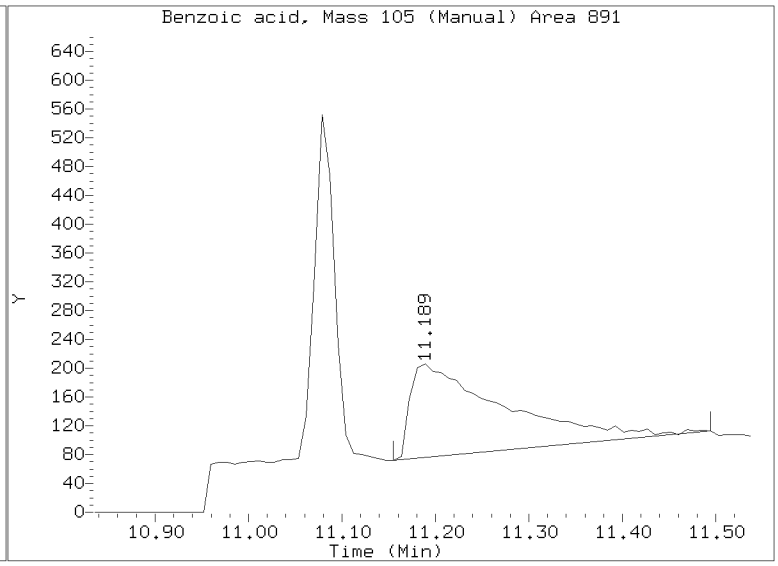
Exception: 1,2,4-Trichlorobenzene 0.0010

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031508S.D
Injection Date: 16-MAR-2023 00:22
Lab ID:SLC0238-CAL3 Client ID:
Report Date: 03/16/2023 14:49





Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031509S.D

Date : 16-MAR-2023 01:00

Client ID:

Instrument: nt10.i

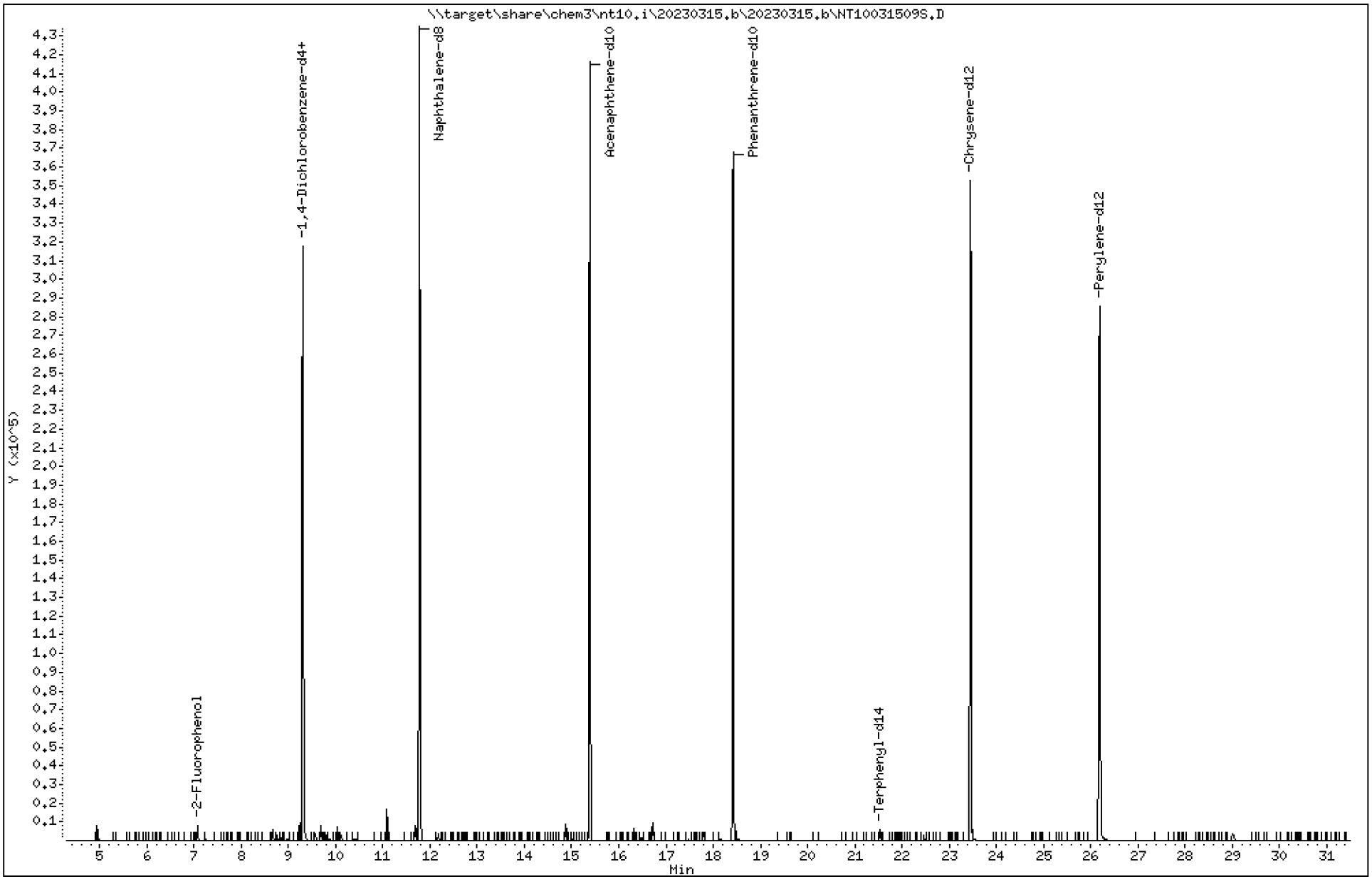
Sample Info: SLC0238-CAL2

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031509S.D
Lab Smp Id: SLC0238-CAL2
Inj Date : 16-MAR-2023 01:00 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0238-CAL2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 9 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	7.073	7.073	(0.761)	8469	0.15000	0.1462
3	Phenol	94	8.657	8.664	(0.931)	7915	0.10000	0.09961
7	1,3-Dichlorobenzene	146	9.236	9.236	(0.993)	7959	0.10000	0.1070
* 8	1,4-Dichlorobenzene-d4	152	9.298	9.298	(1.000)	190985	4.00000	
9	1,4-Dichlorobenzene	146	9.329	9.329	(1.003)	7577	0.10000	0.1056
11	Benzyl alcohol	79	9.562	9.570	(1.028)	3916	0.10000	0.08501
12	1,2-Dichlorobenzene	146	9.686	9.686	(1.042)	7452	0.10000	0.1056
13	2-Methylphenol	108	9.772	9.772	(1.051)	5108	0.10000	0.09278
15	4-Methylphenol	108	10.036	10.036	(1.079)	5283	0.10000	0.09234
16	N-Nitroso-di-n-propylamine	70	10.113	10.113	(1.088)	3707	0.10000	0.09162
22	2,4-Dimethylphenol	107	11.086	11.087	(0.942)	11249	0.20000	0.1901
24	Benzoic acid	105	Compound Not Detected.					
26	1,2,4-Trichlorobenzene	180	11.689	11.690	(0.993)	6182	0.10000	0.1038
* 27	Naphthalene-d8	136	11.774	11.775	(1.000)	684638	4.00000	
30	Hexachlorobutadiene	225	12.176	12.169	(1.034)	3646	0.10000	0.1007
39	Dimethylphthalate	163	14.877	14.877	(0.967)	10444	0.10000	0.1008
* 42	Acenaphthene-d10	162	15.387	15.380	(1.000)	328366	4.00000	
50	Diethylphthalate	149	16.331	16.324	(1.061)	9630	0.10000	0.08971
54	N-Nitrosodiphenylamine	169	16.716	16.717	(0.907)	7688	0.10000	0.09515
57	Hexachlorobenzene	284	17.797	17.798	(0.966)	3777	0.10000	0.1044

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	58 Pentachlorophenol	266	18.153	18.154	(0.985)	1130	0.20000	0.05659(M)
*	59 Phenanthrene-d10	188	18.424	18.417	(1.000)	602202	4.00000	
$	66 Terphenyl-d14	244	21.542	21.543	(0.918)	6866	0.10000	0.09337
	67 Butylbenzylphthalate	149	22.463	22.465	(0.958)	3284	0.10000	0.05534
*	69 Chrysene-d12	240	23.454	23.455	(1.000)	451316	4.00000	
*	77 Perylene-d12	264	26.187	26.188	(1.000)	517188	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.010	29.019	(1.108)	11218	0.10000	0.06608
	90 N-Nitrosodimethylamine	74	4.941	4.948	(0.531)	7449	0.20000	0.2028

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031509S.D
Lab Smp Id: SLC0238-CAL2
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 23:06
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	188081	94041	376162	190985	1.54
27 Naphthalene-d8	674549	337275	1349098	684638	1.50
42 Acenaphthene-d10	328275	164138	656550	328366	0.03
59 Phenanthrene-d10	597140	298570	1194280	602202	0.85
69 Chrysene-d12	466503	233252	933006	451316	-3.26
77 Perylene-d12	518203	259102	1036406	517188	-0.20

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.30	0.00
27 Naphthalene-d8	11.77	11.27	12.27	11.77	0.00
42 Acenaphthene-d10	15.39	14.89	15.89	15.39	0.00
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	0.00
69 Chrysene-d12	23.45	22.95	23.95	23.45	0.00
77 Perylene-d12	26.19	25.69	26.69	26.19	0.00

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

REVIEW SUMMARY FOR FILE - NT10031509S.D

Lab ID: SLC0238-CAL2
nt10.i, 20230315.b\20230315.b\SIMABN2.m,   16-MAR-2023 01:00

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230315.b/NT10031510S.D

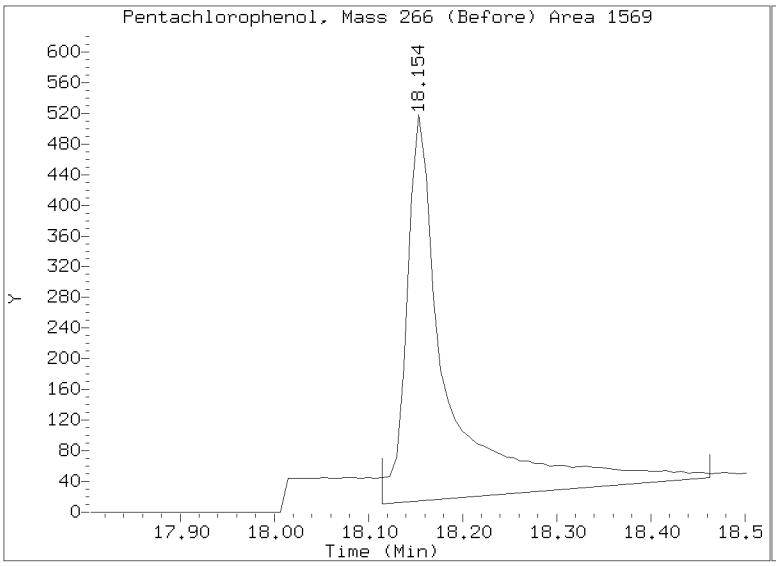
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

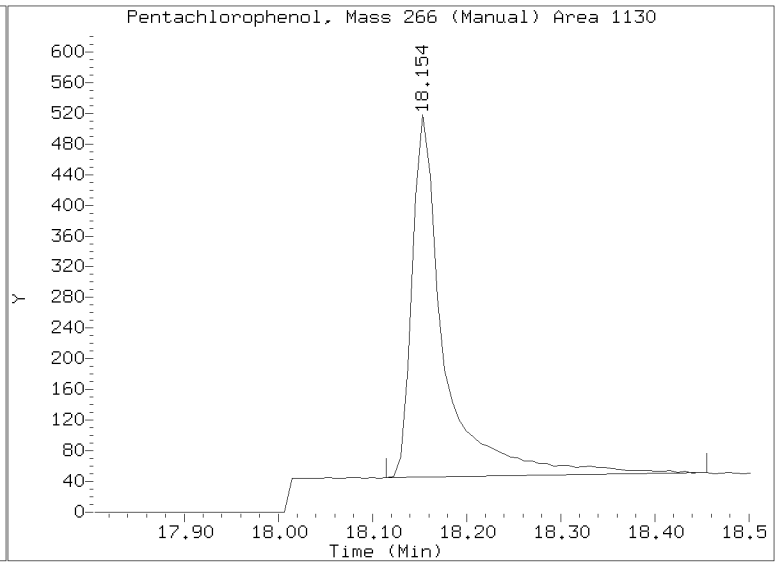
Exception: 1,2,4-Trichlorobenzene 0.0010

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031509S.D
Injection Date: 16-MAR-2023 01:00
Lab ID:SLC0238-CAL2 Client ID:
Report Date: 03/16/2023 14:49





Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031510S.D

Date : 16-MAR-2023 01:38

Client ID:

Instrument: nt10.i

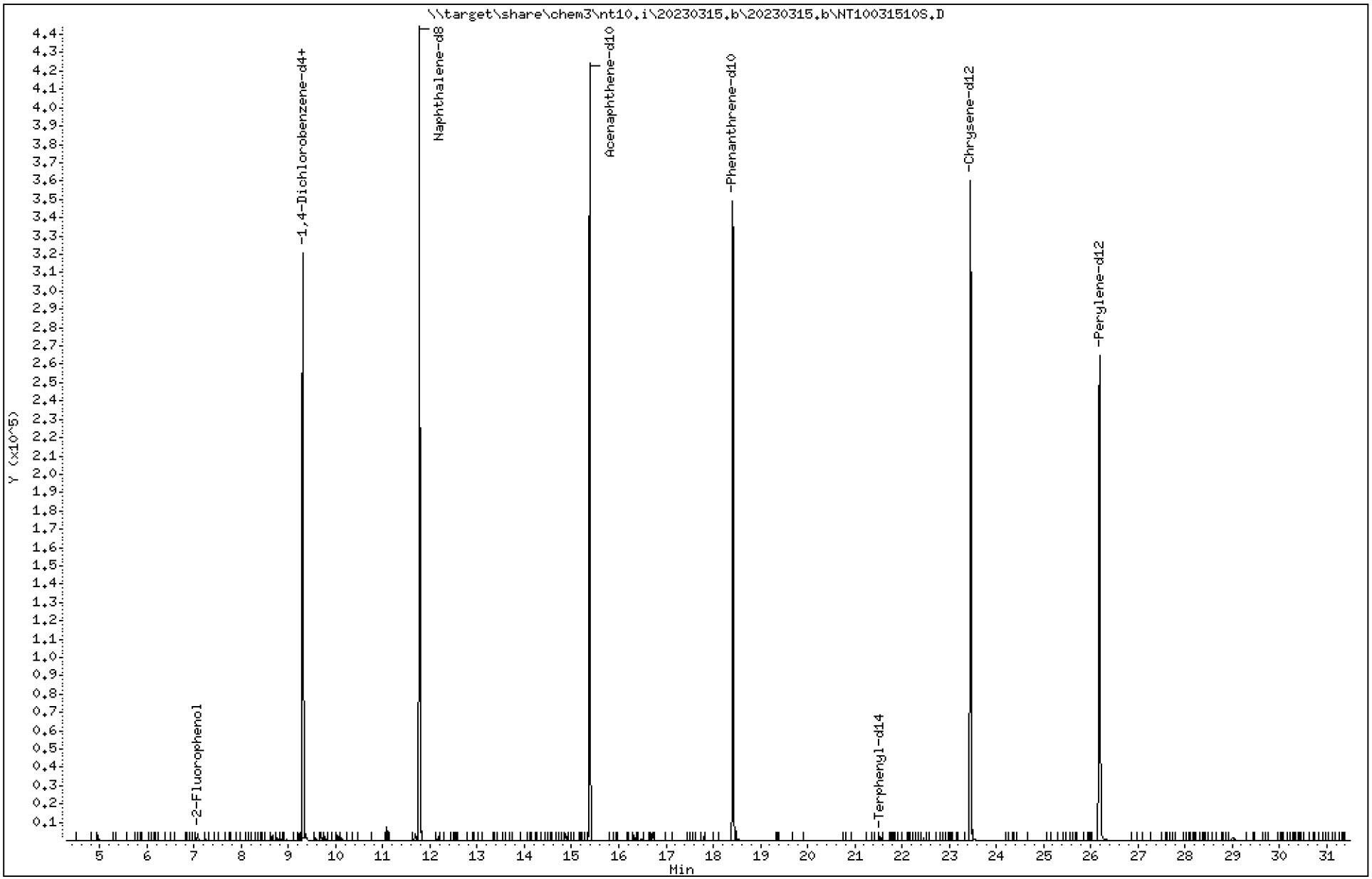
Sample Info: SLC0238-CAL1

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031510S.D
Lab Smp Id: SLC0238-CAL1
Inj Date : 16-MAR-2023 01:38 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0238-CAL1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 10 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	7.073	7.073	(0.761)	3849	0.07500	0.06782
3	Phenol	94	8.664	8.664	(0.932)	3653	0.05000	0.04692
7	1,3-Dichlorobenzene	146	9.236	9.236	(0.993)	3896	0.05000	0.05347
* 8	1,4-Dichlorobenzene-d4	152	9.298	9.298	(1.000)	187154	4.00000	
9	1,4-Dichlorobenzene	146	9.329	9.329	(1.003)	3725	0.05000	0.05296
11	Benzyl alcohol	79	9.570	9.570	(1.029)	1831	0.05000	0.04056
12	1,2-Dichlorobenzene	146	9.686	9.686	(1.042)	3651	0.05000	0.05278
13	2-Methylphenol	108	9.772	9.772	(1.051)	2592	0.05000	0.04804
15	4-Methylphenol	108	10.036	10.036	(1.079)	2412	0.05000	0.04302
16	N-Nitroso-di-n-propylamine	70	10.113	10.113	(1.088)	1741	0.05000	0.04391
22	2,4-Dimethylphenol	107	11.087	11.087	(0.942)	4967	0.10000	0.08781
24	Benzoic acid	105	Compound Not Detected.					
26	1,2,4-Trichlorobenzene	180	11.690	11.690	(0.993)	3146	0.05000	0.05529
* 27	Naphthalene-d8	136	11.775	11.775	(1.000)	654413	4.00000	
30	Hexachlorobutadiene	225	12.169	12.169	(1.033)	1885	0.05000	0.05449
39	Dimethylphthalate	163	14.877	14.877	(0.967)	5095	0.05000	0.05062
* 42	Acenaphthene-d10	162	15.380	15.380	(1.000)	318969	4.00000	
50	Diethylphthalate	149	16.324	16.324	(1.061)	4381	0.05000	0.04201
54	N-Nitrosodiphenylamine	169	16.717	16.717	(0.908)	3307	0.05000	0.04226
57	Hexachlorobenzene	284	17.798	17.798	(0.966)	1826	0.05000	0.05212

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
	58 Pentachlorophenol	266	18.154	18.154	(0.986)	337	0.10000	0.01743(M)
*	59 Phenanthrene-d10	188	18.417	18.417	(1.000)	583319	4.00000	
$	66 Terphenyl-d14	244	21.543	21.543	(0.918)	3504	0.05000	0.04882
	67 Butylbenzylphthalate	149	22.464	22.465	(0.958)	1336	0.05000	0.02307
*	69 Chrysene-d12	240	23.455	23.455	(1.000)	440533	4.00000	
*	77 Perylene-d12	264	26.188	26.188	(1.000)	488759	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.018	29.019	(1.108)	4785	0.05000	0.02982
	90 N-Nitrosodimethylamine	74	4.948	4.948	(0.532)	3496	0.10000	0.09712

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031510S.D
Lab Smp Id: SLC0238-CAL1
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 23:06
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	188081	94041	376162	187154	-0.49
27 Naphthalene-d8	674549	337275	1349098	654413	-2.99
42 Acenaphthene-d10	328275	164138	656550	318969	-2.83
59 Phenanthrene-d10	597140	298570	1194280	583319	-2.31
69 Chrysene-d12	466503	233252	933006	440533	-5.57
77 Perylene-d12	518203	259102	1036406	488759	-5.68

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.30	0.00
27 Naphthalene-d8	11.77	11.27	12.27	11.78	0.01
42 Acenaphthene-d10	15.39	14.89	15.89	15.38	-0.04
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	-0.04
69 Chrysene-d12	23.45	22.95	23.95	23.46	0.00
77 Perylene-d12	26.19	25.69	26.69	26.19	0.00

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

REVIEW SUMMARY FOR FILE - NT10031510S.D

Lab ID: SLC0238-CAL1
nt10.i, 20230315.b\20230315.b\SIMABN2.m,   16-MAR-2023 01:38

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230315.b/NT10031510S.D

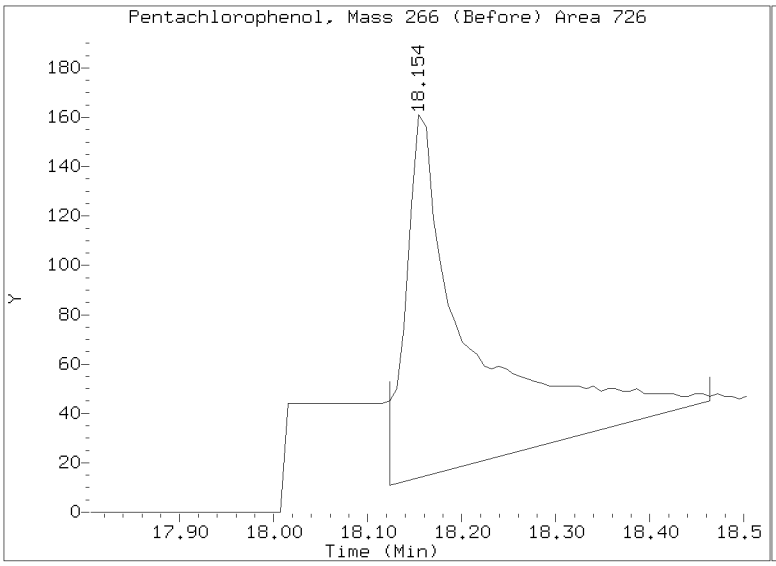
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

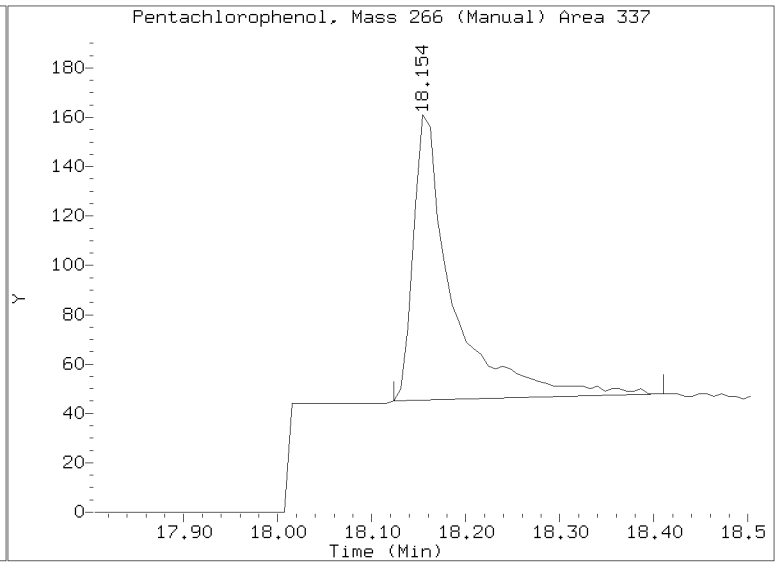
Exception: 1,2,4-Trichlorobenzene 0.0010

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031510S.D
Injection Date: 16-MAR-2023 01:38
Lab ID:SLC0238-CAL1 Client ID:
Report Date: 03/16/2023 14:49





Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

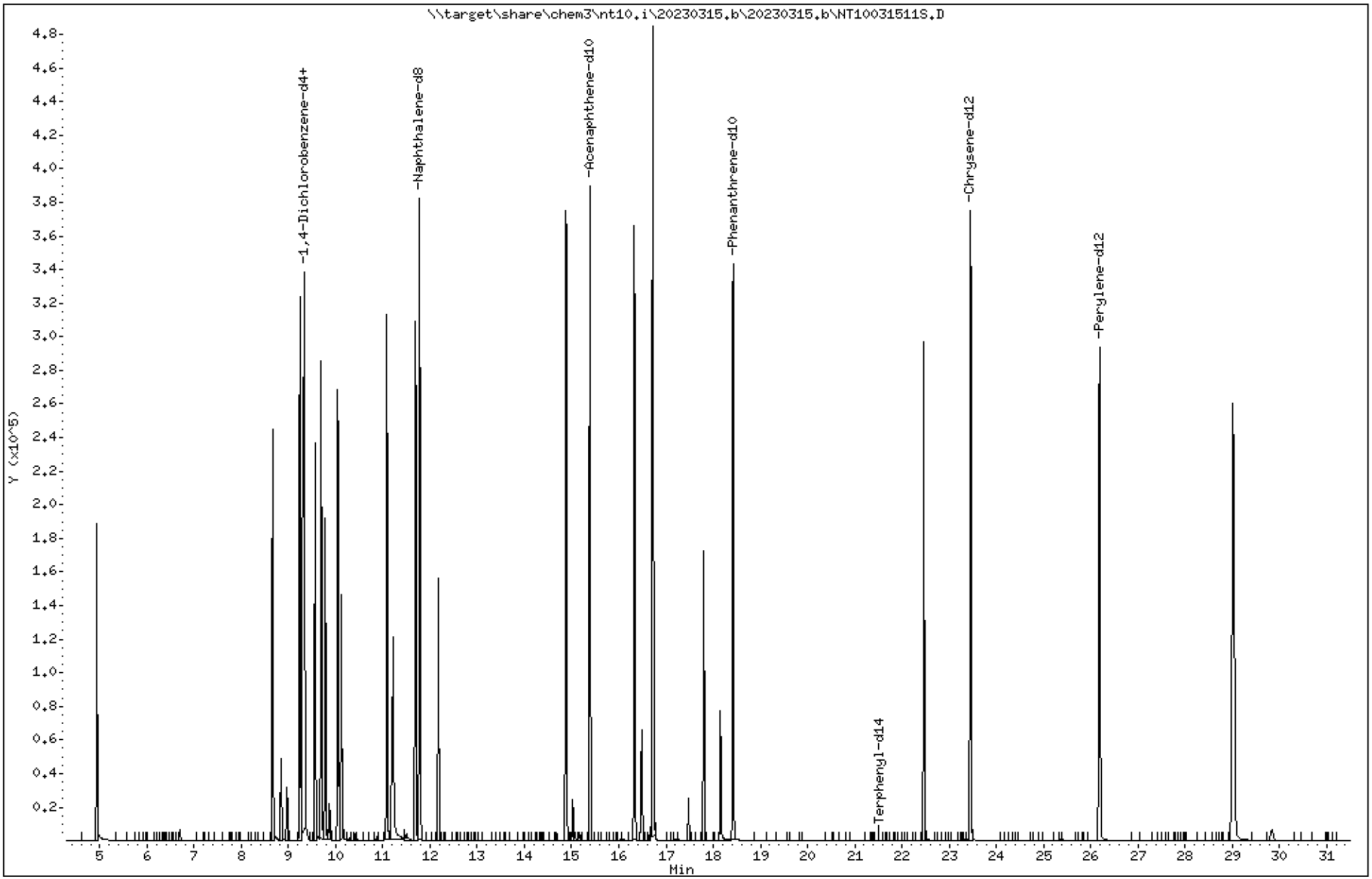
Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

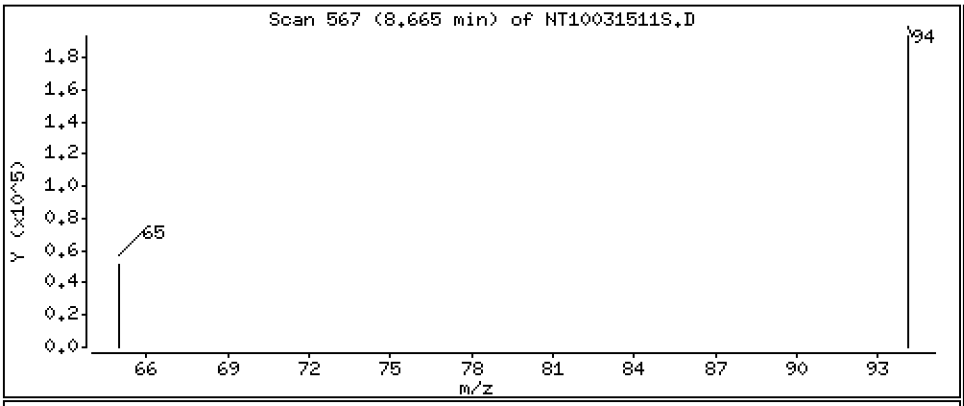
Operator: JGR

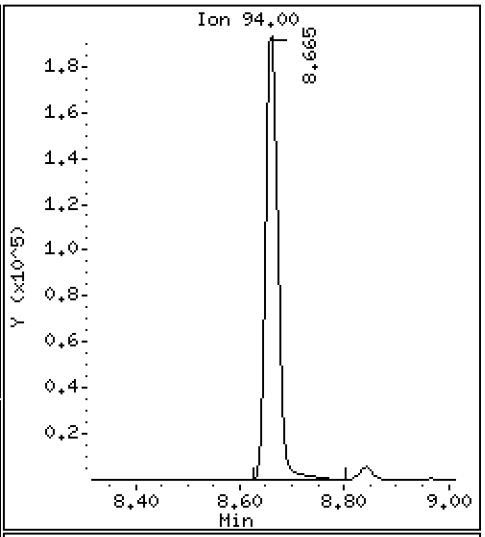
Column phase: ZB-5msi

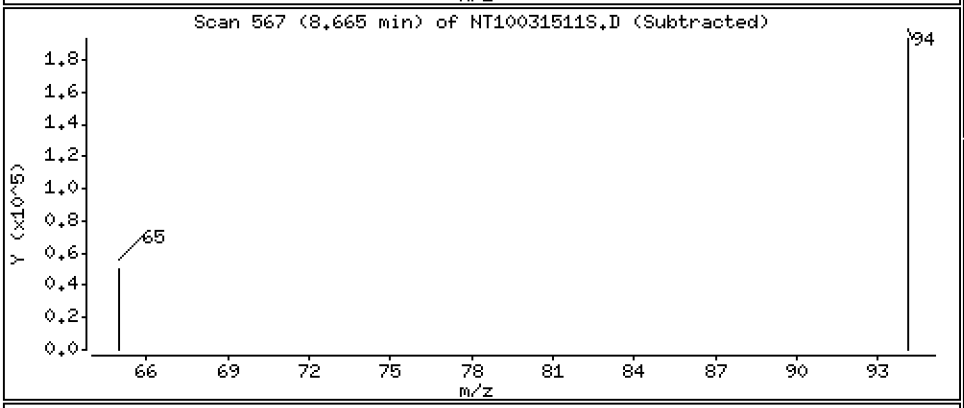
Column diameter: 0.25

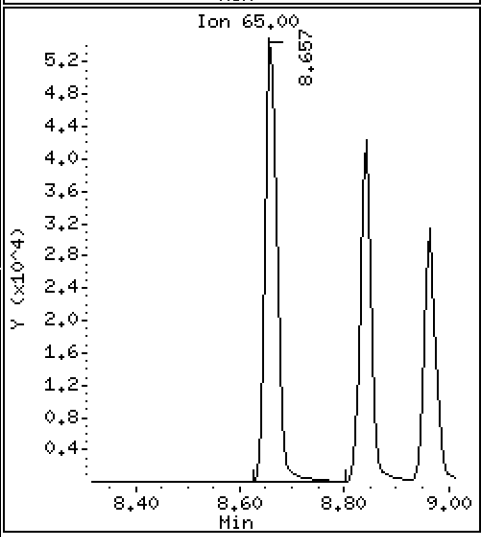
3 Phenol

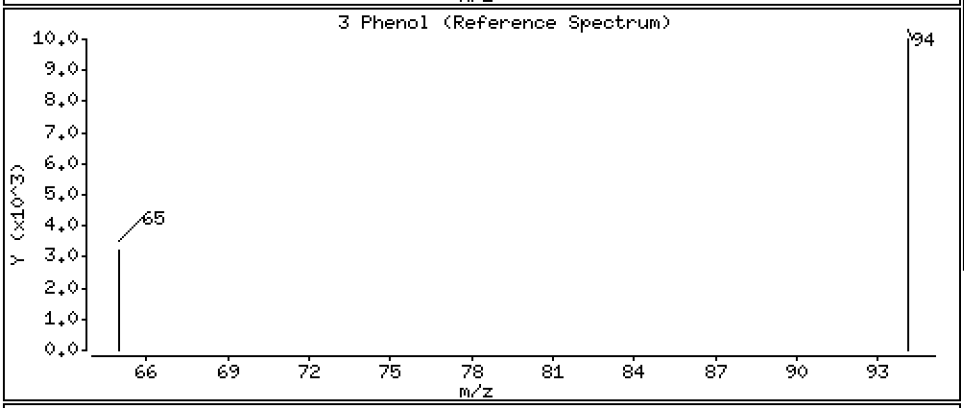
Concentration: 4.373 ug/L

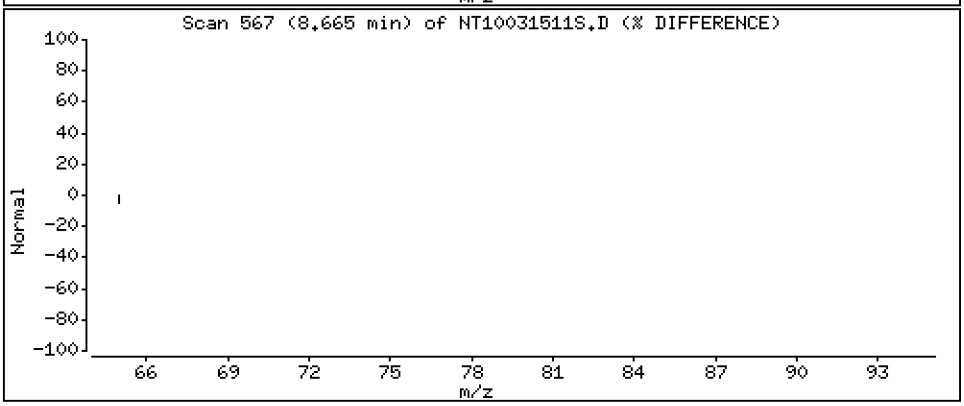












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

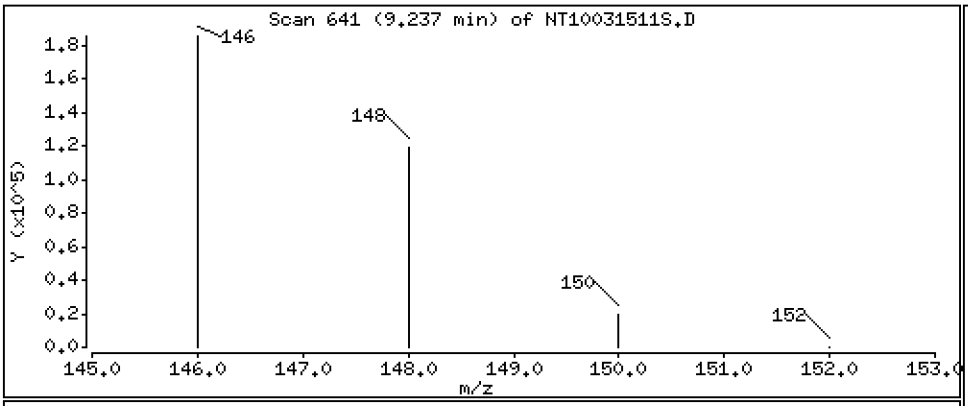
Operator: JGR

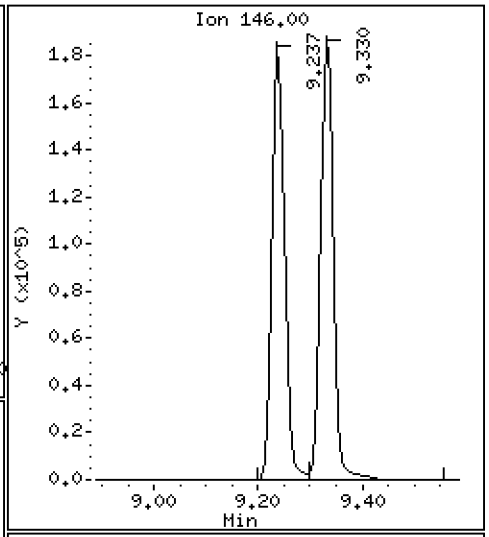
Column phase: ZB-5msi

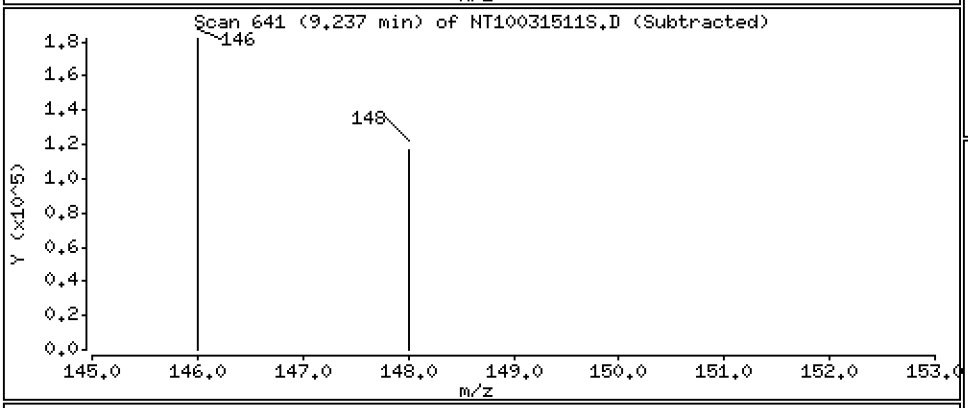
Column diameter: 0.25

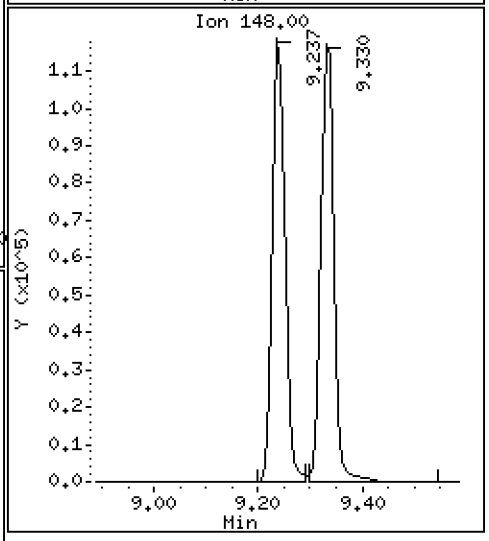
7 1,3-Dichlorobenzene

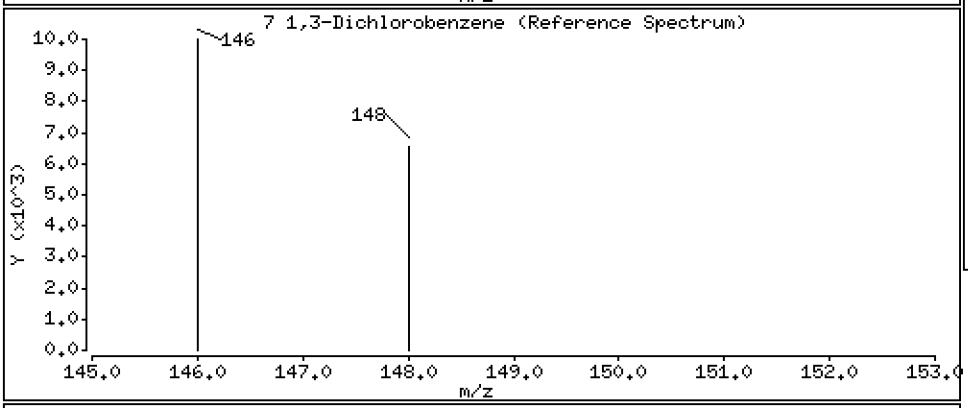
Concentration: 4.643 ug/L

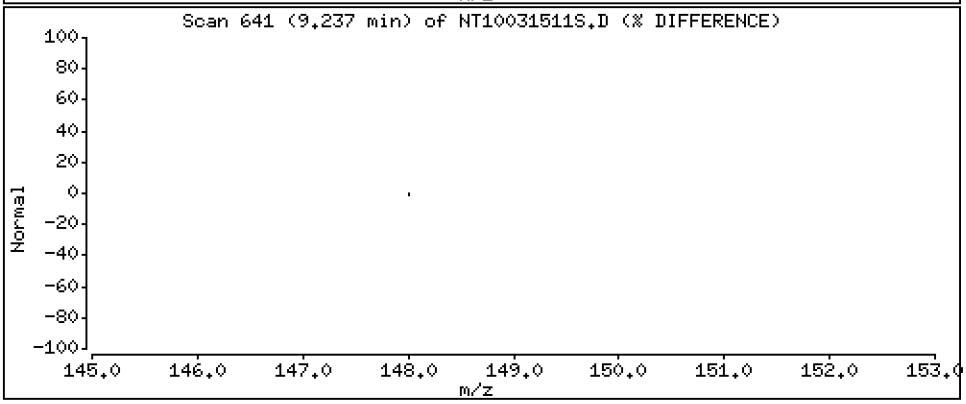












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

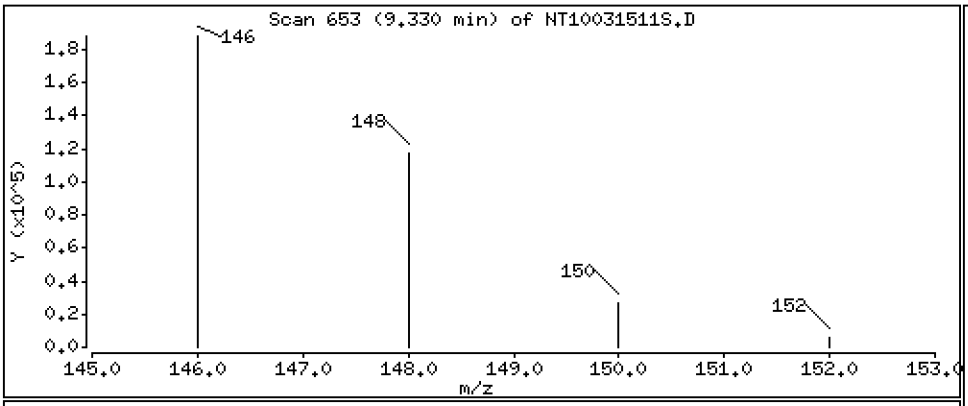
Operator: JGR

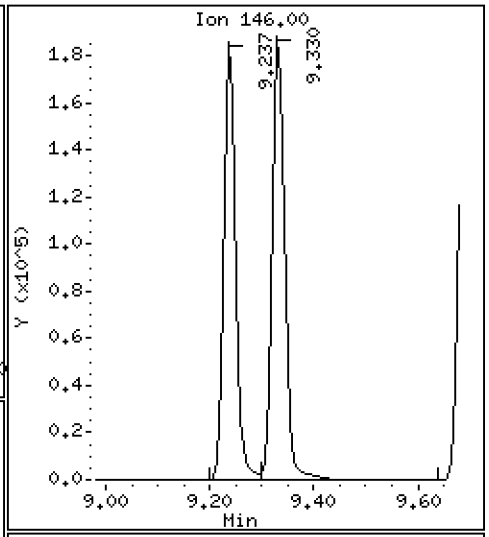
Column phase: ZB-5msi

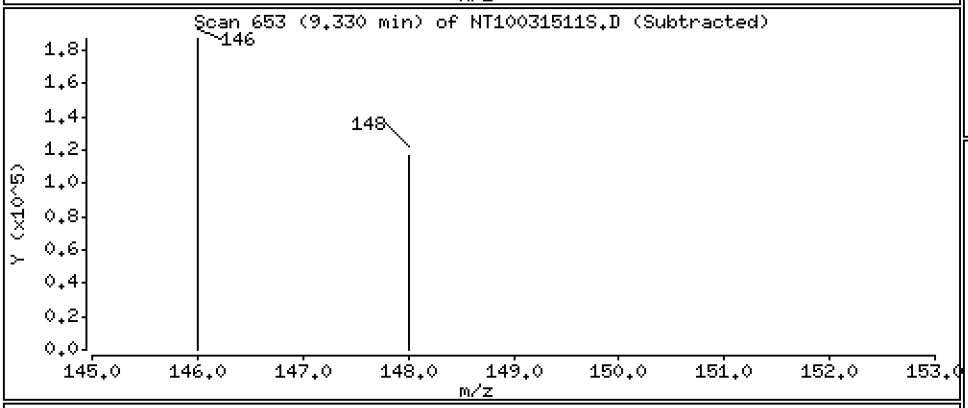
Column diameter: 0.25

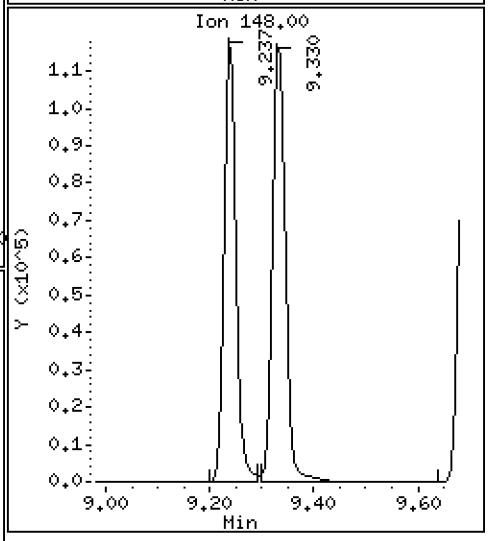
9 1,4-Dichlorobenzene

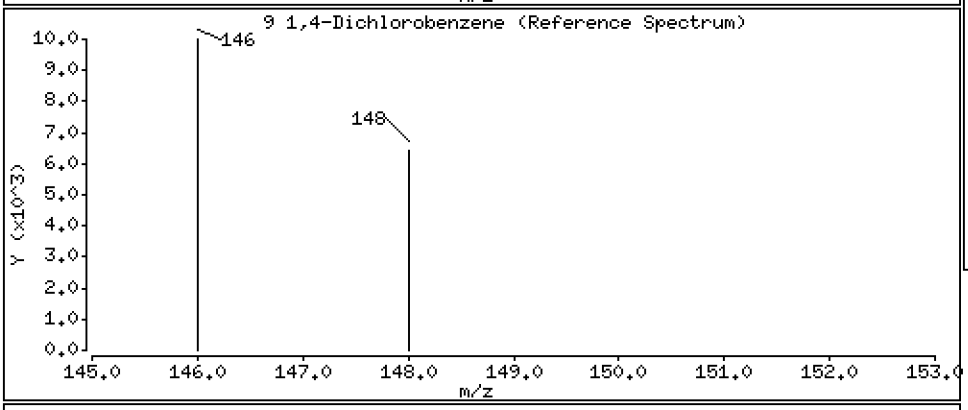
Concentration: 4.838 ug/L

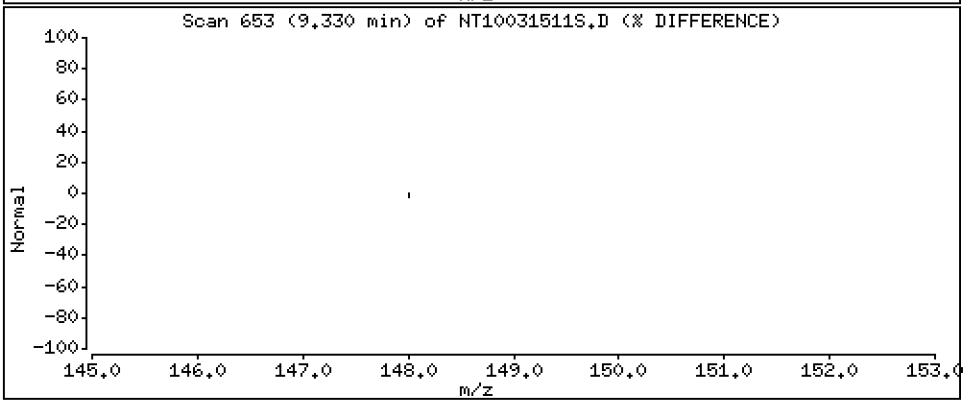












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

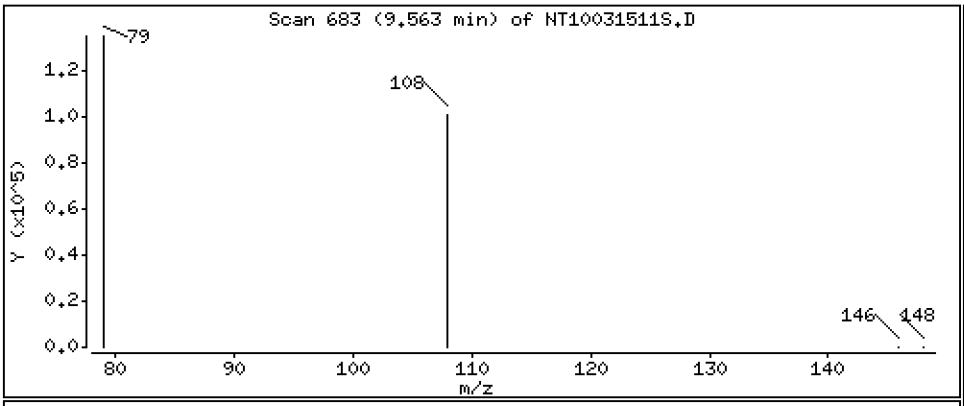
Operator: JGR

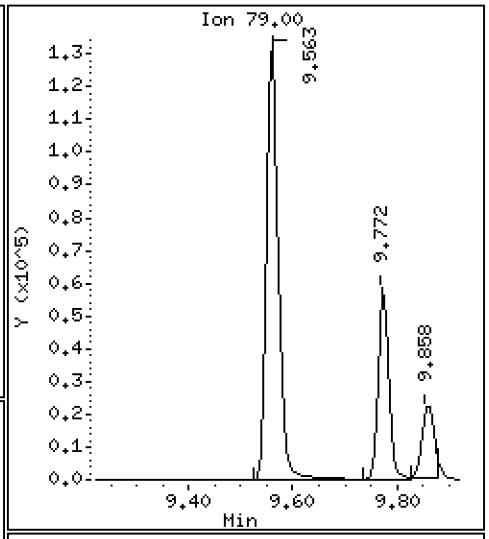
Column phase: ZB-5msi

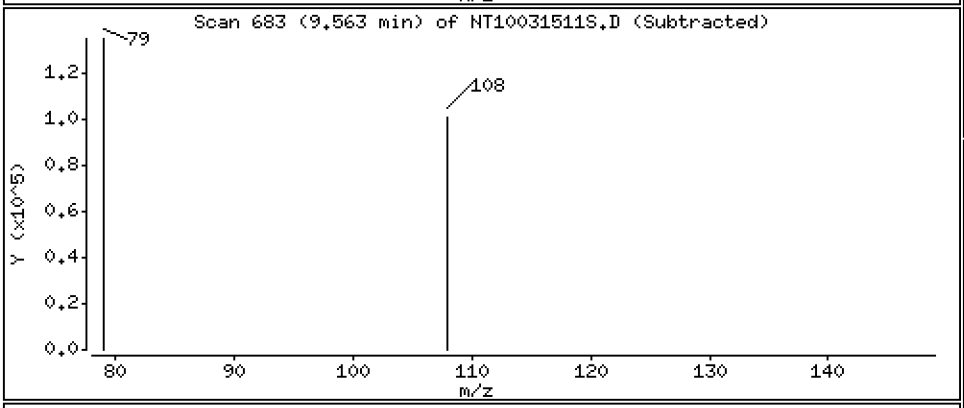
Column diameter: 0.25

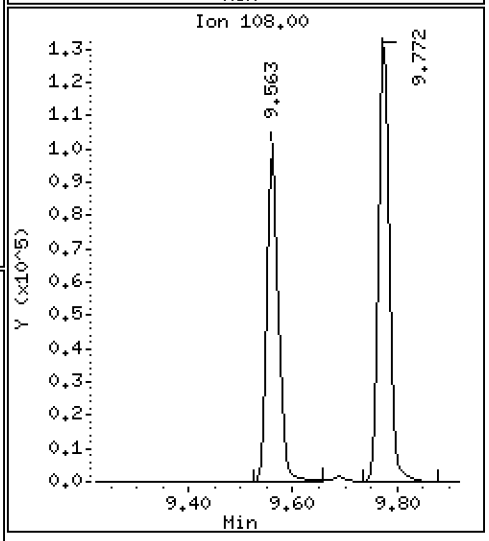
11 Benzyl alcohol

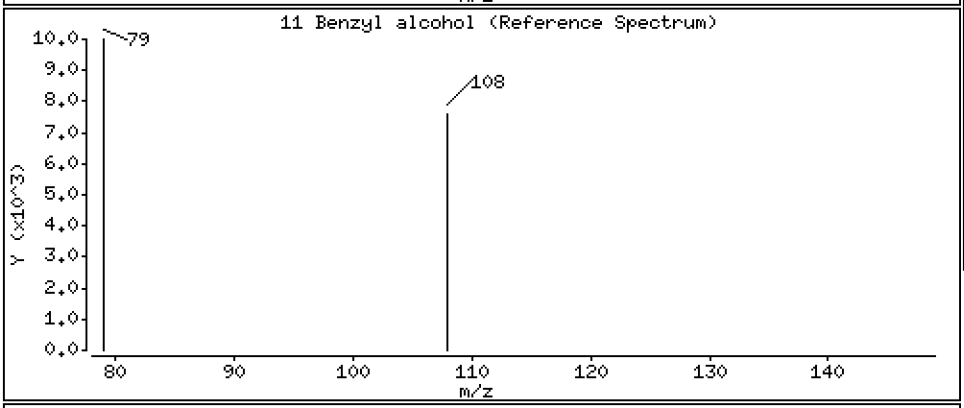
Concentration: 5.181 ug/L

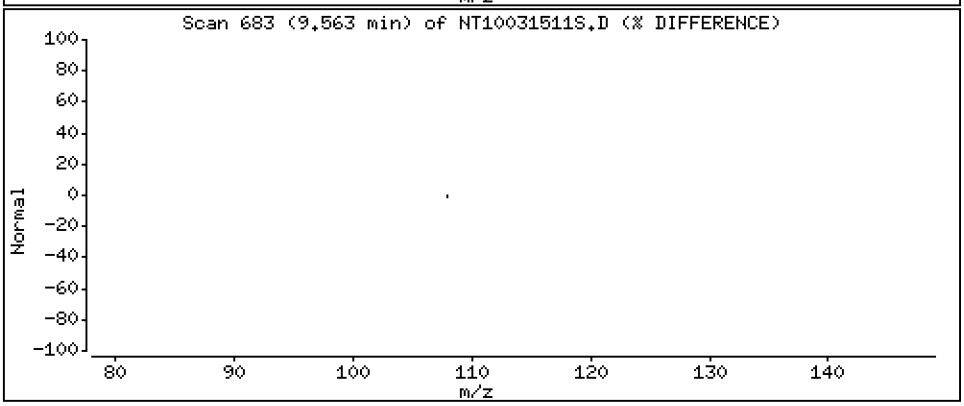












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

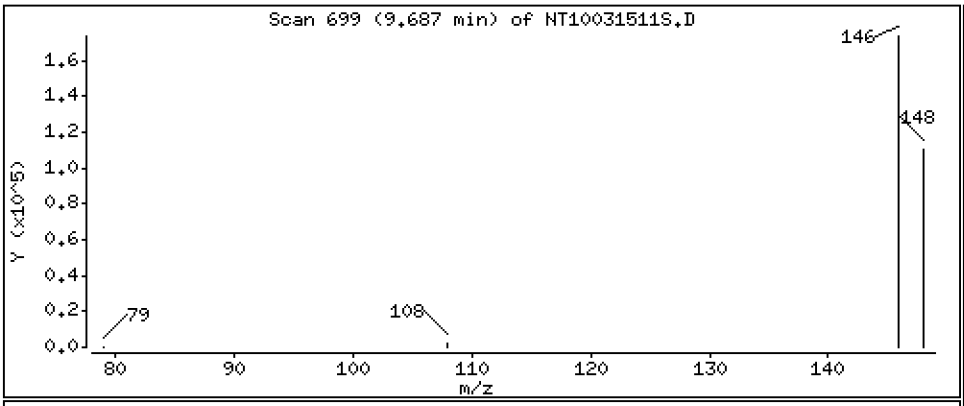
Operator: JGR

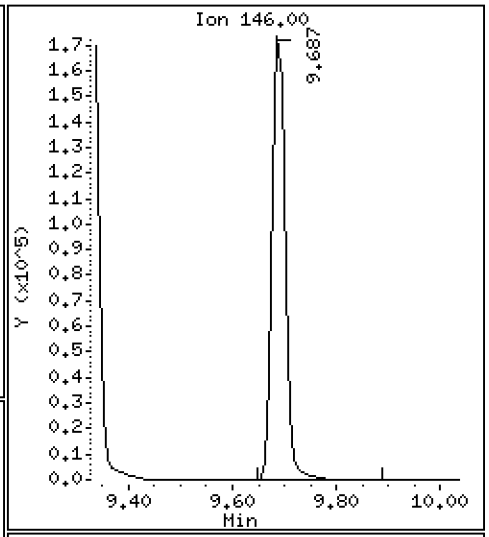
Column phase: ZB-5msi

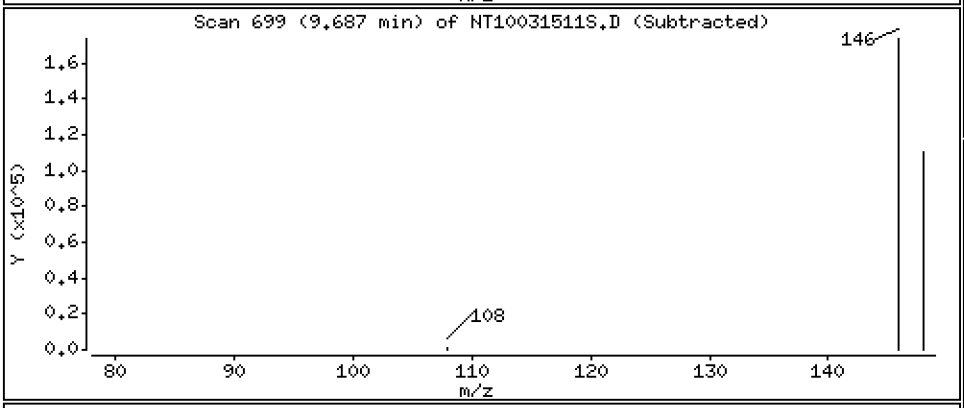
Column diameter: 0.25

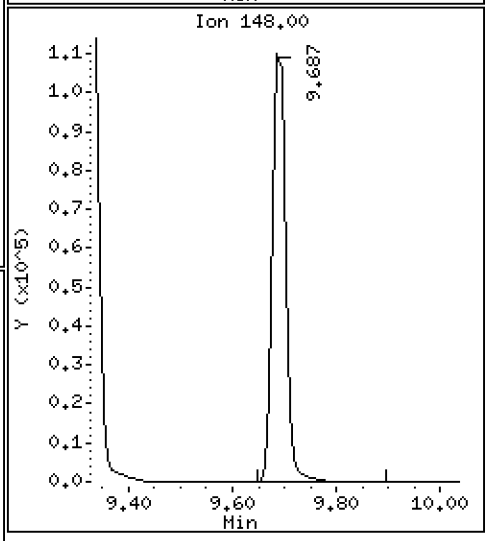
12 1,2-Dichlorobenzene

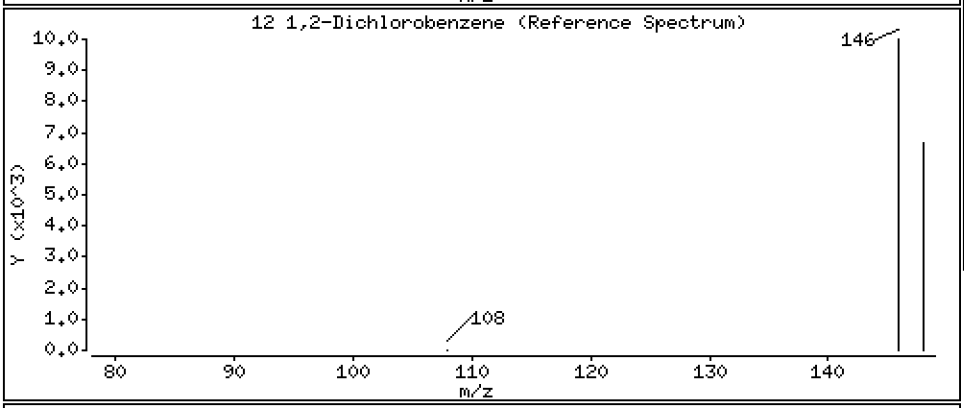
Concentration: 4.679 ug/L

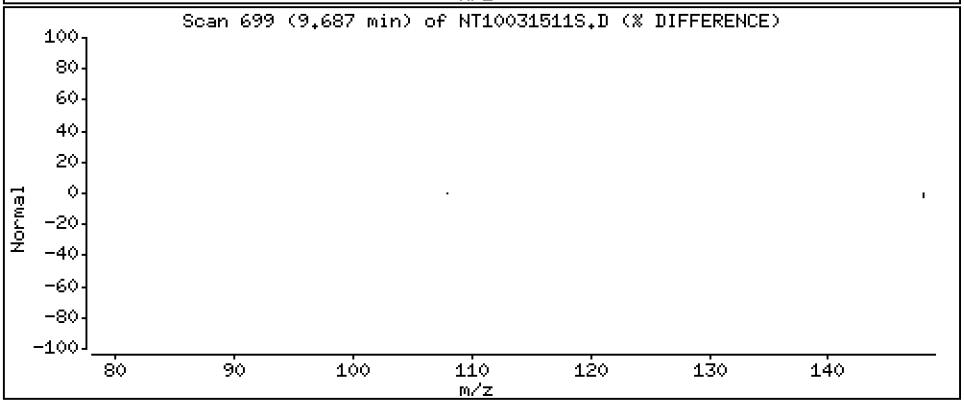












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

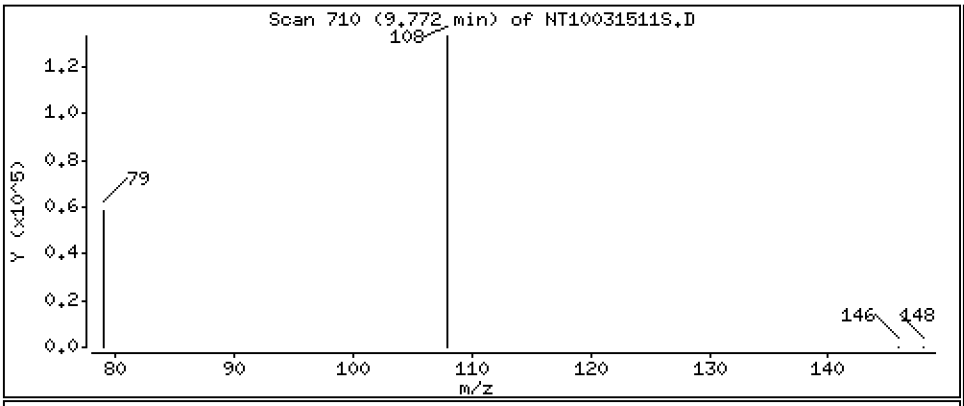
Operator: JGR

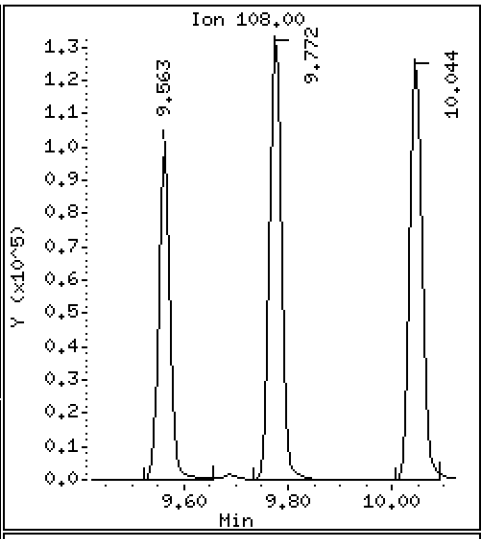
Column phase: ZB-5msi

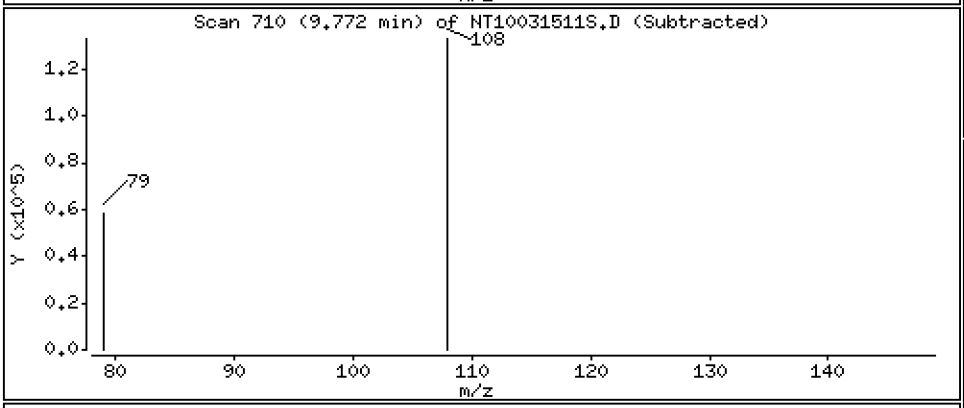
Column diameter: 0.25

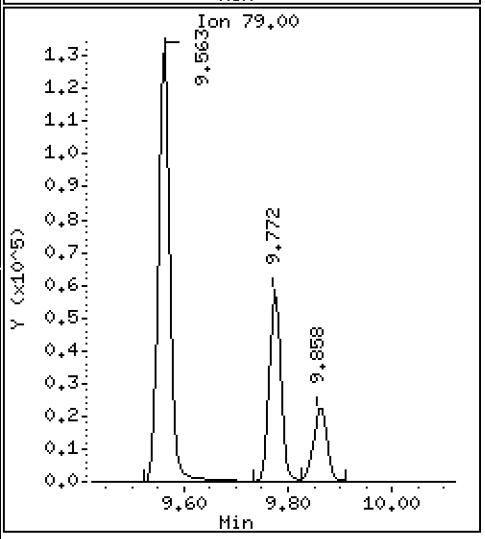
13 2-Methylphenol

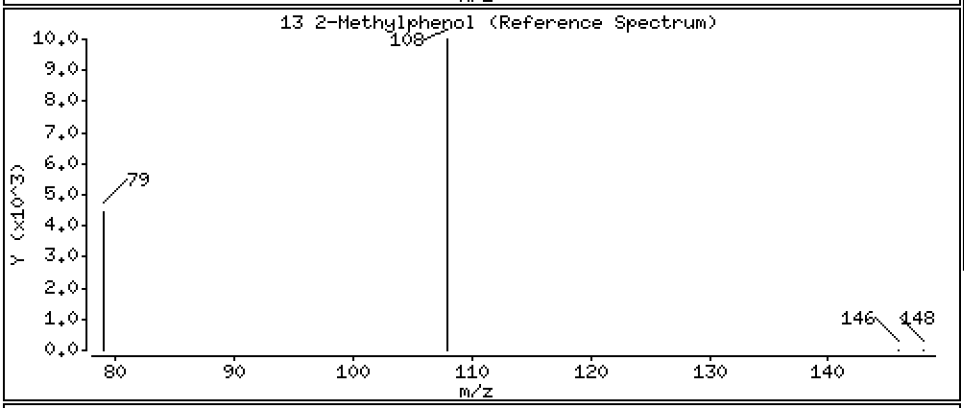
Concentration: 4.197 ug/L

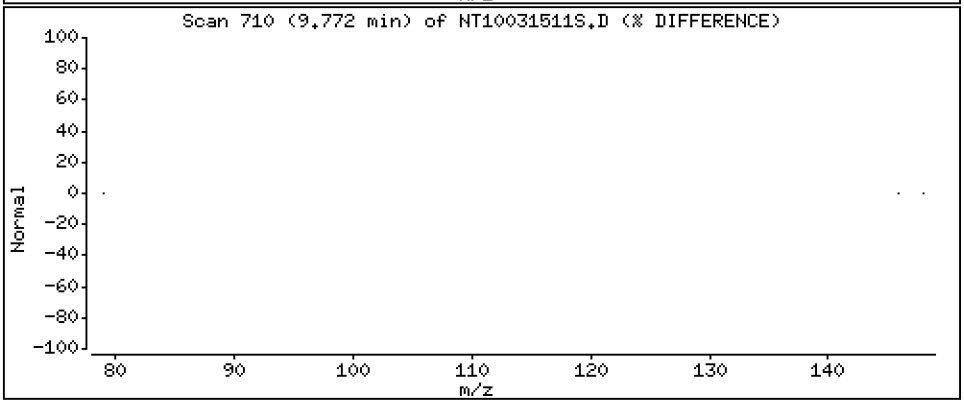












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

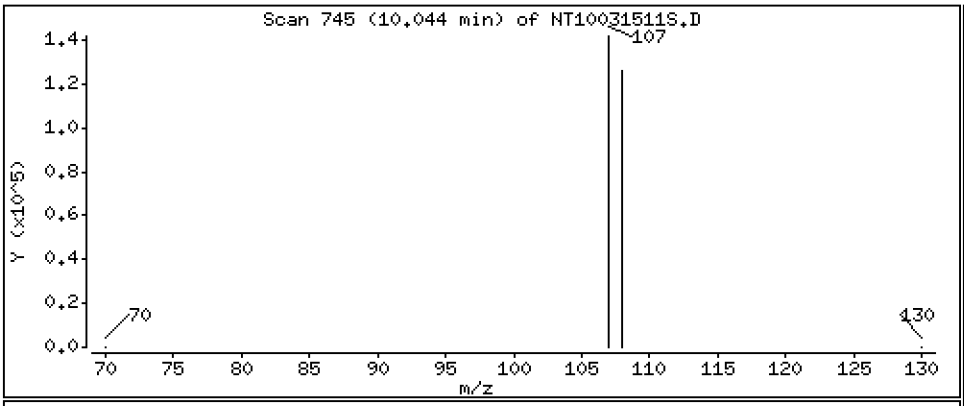
Operator: JGR

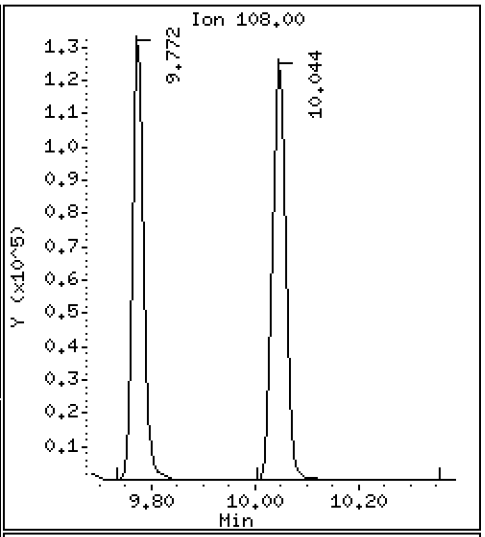
Column phase: ZB-5msi

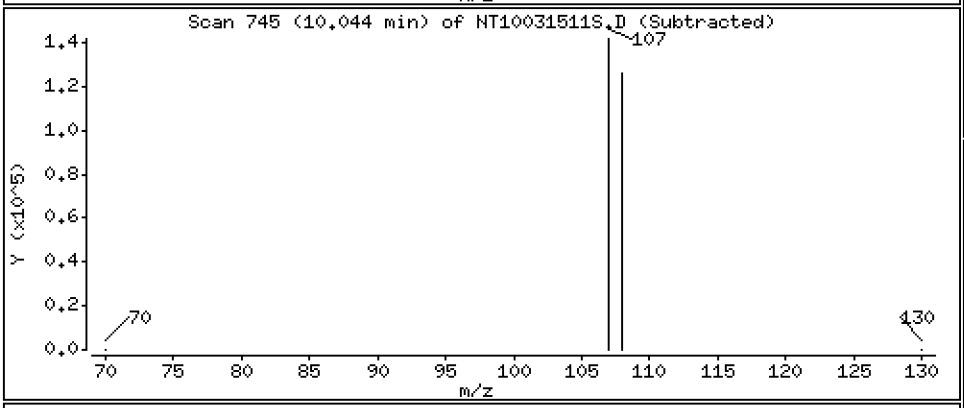
Column diameter: 0.25

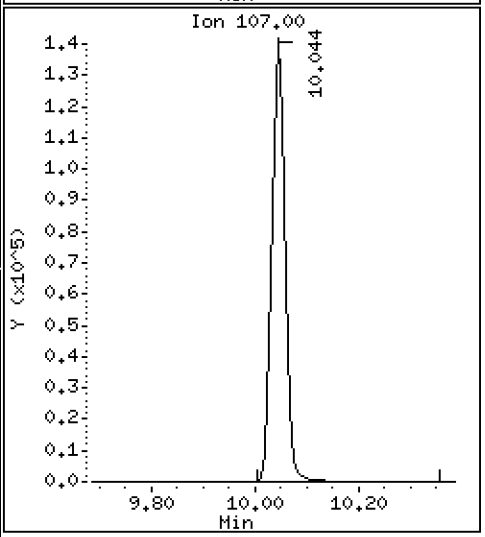
15 4-Methylphenol

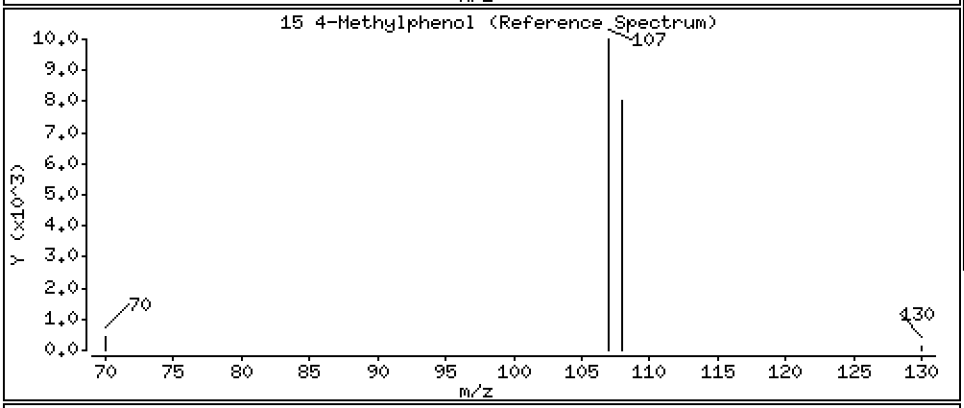
Concentration: 4.463 ug/L

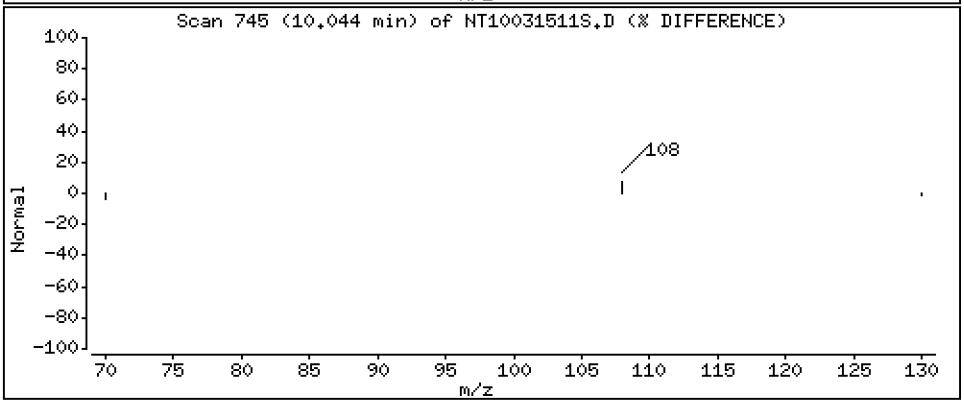












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

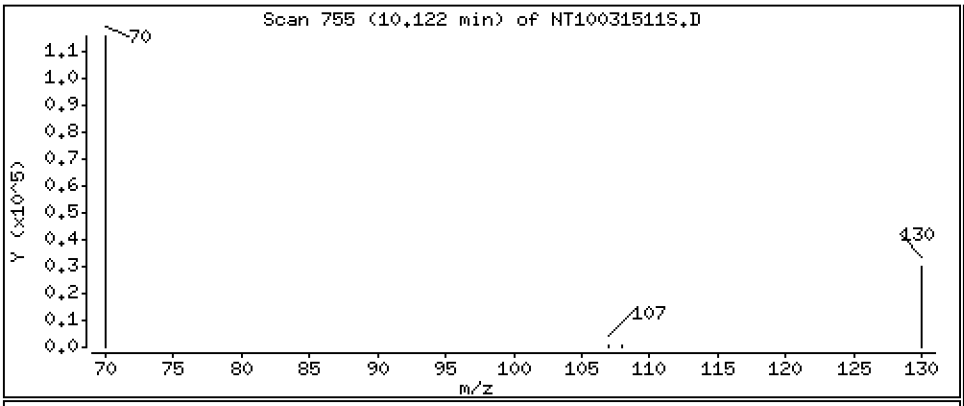
Operator: JGR

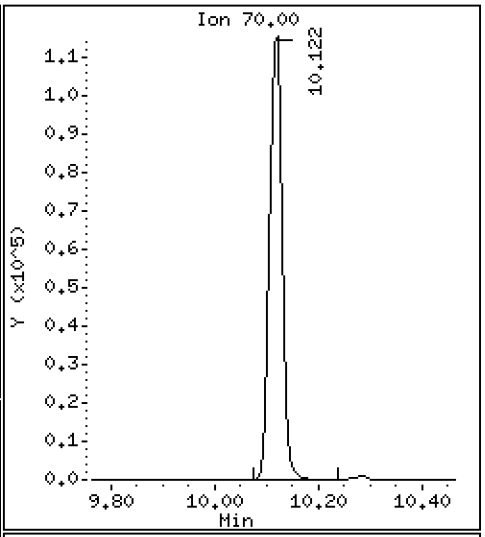
Column phase: ZB-5msi

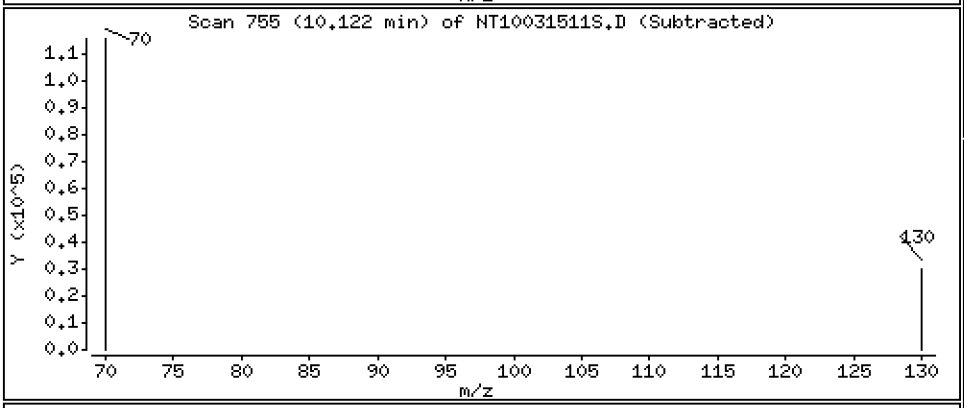
Column diameter: 0.25

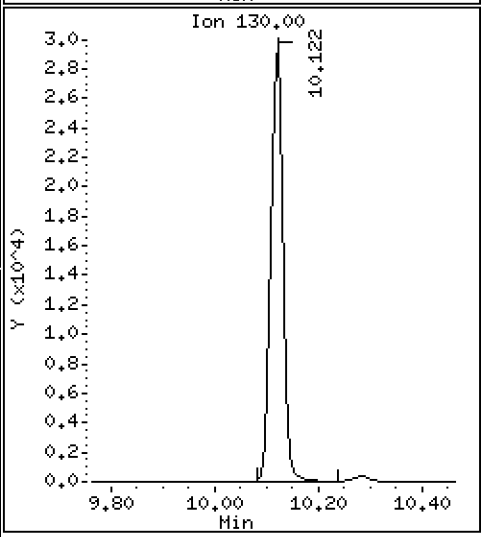
16 N-Nitroso-di-n-propylamine

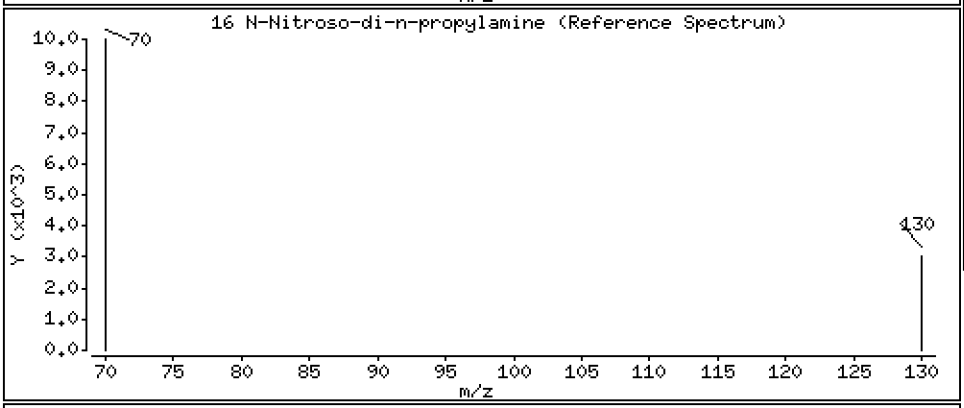
Concentration: 5.282 ug/L

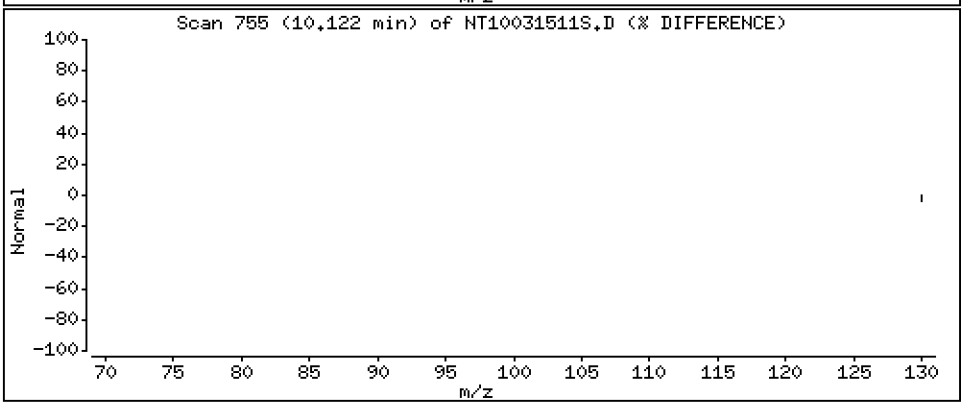












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

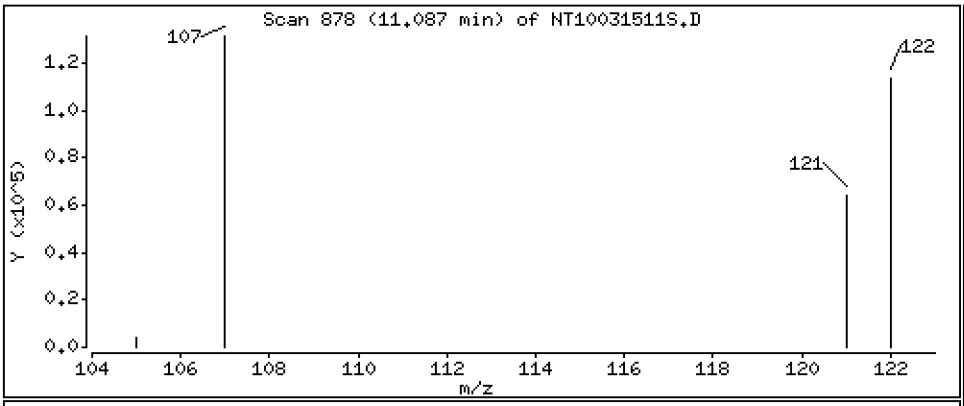
Operator: JGR

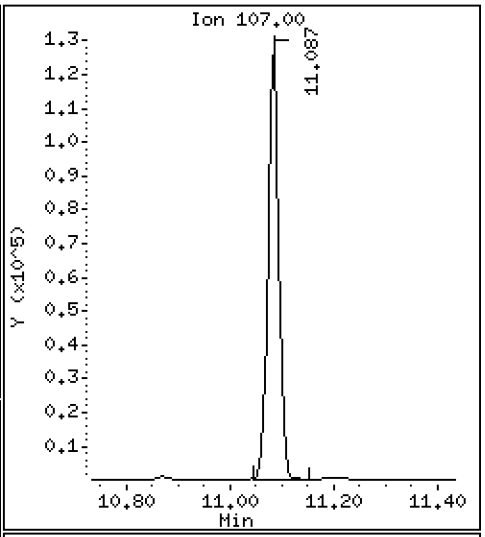
Column phase: ZB-5msi

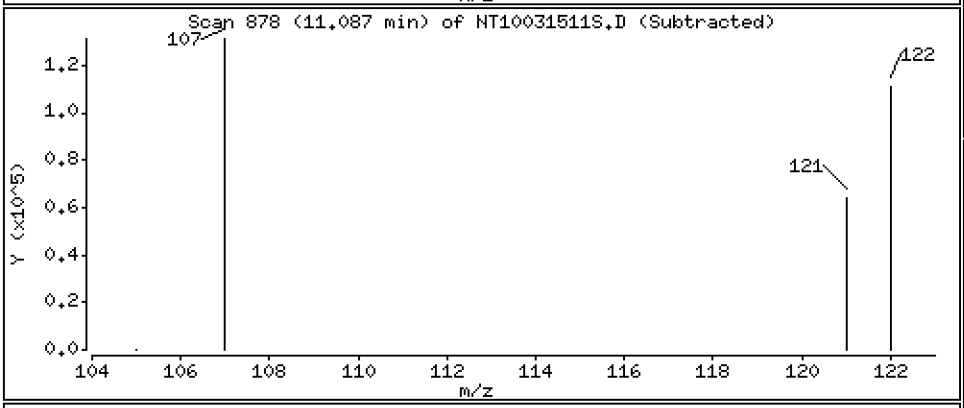
Column diameter: 0.25

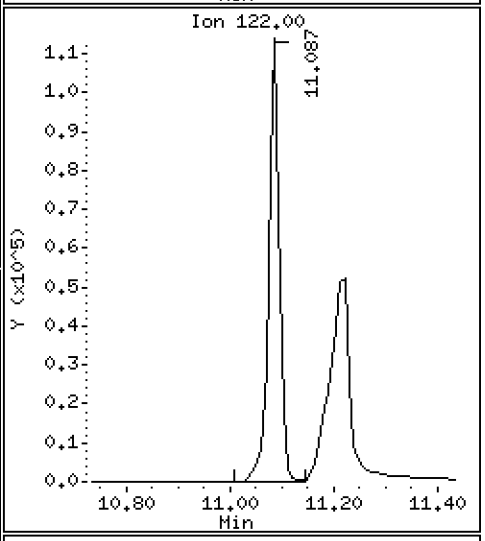
22 2,4-Dimethylphenol

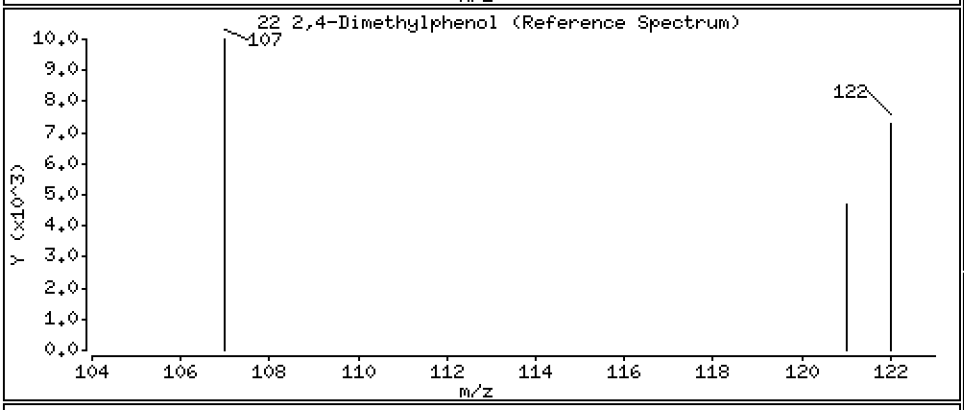
Concentration: 3.660 ug/L

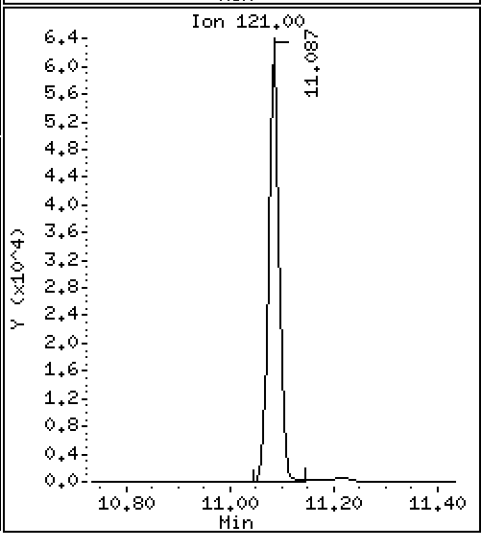


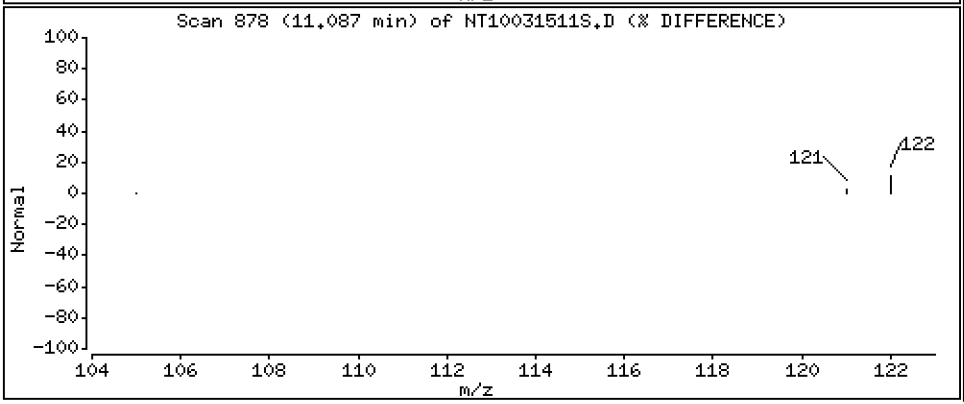












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

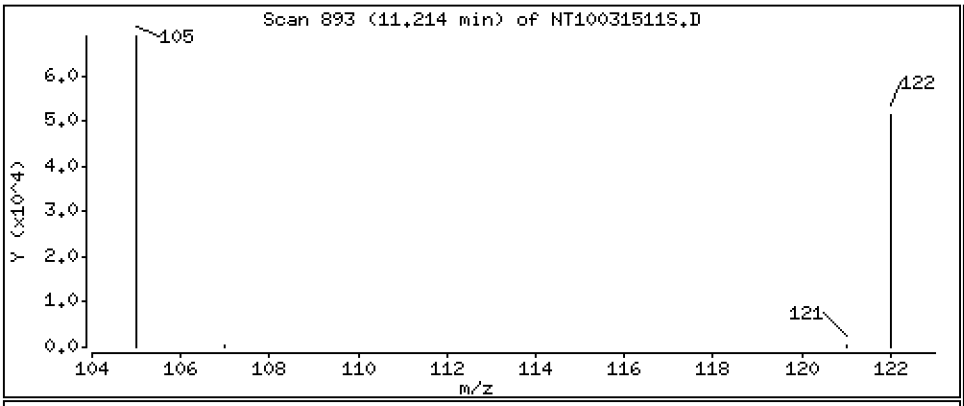
Operator: JGR

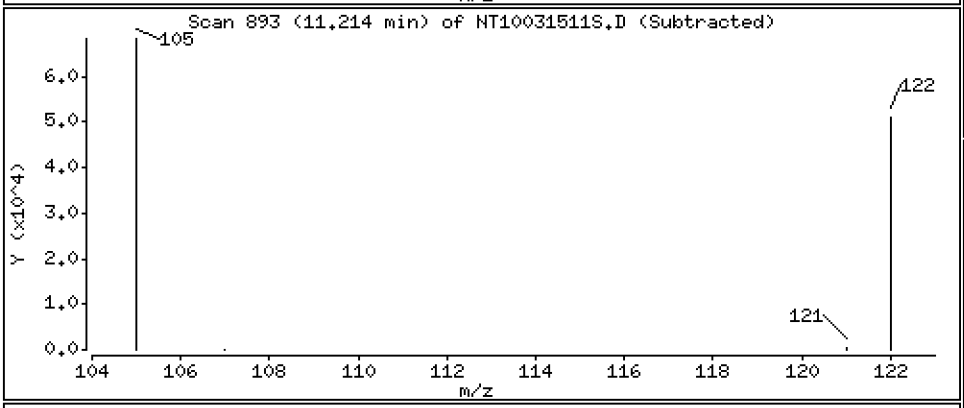
Column phase: ZB-5msi

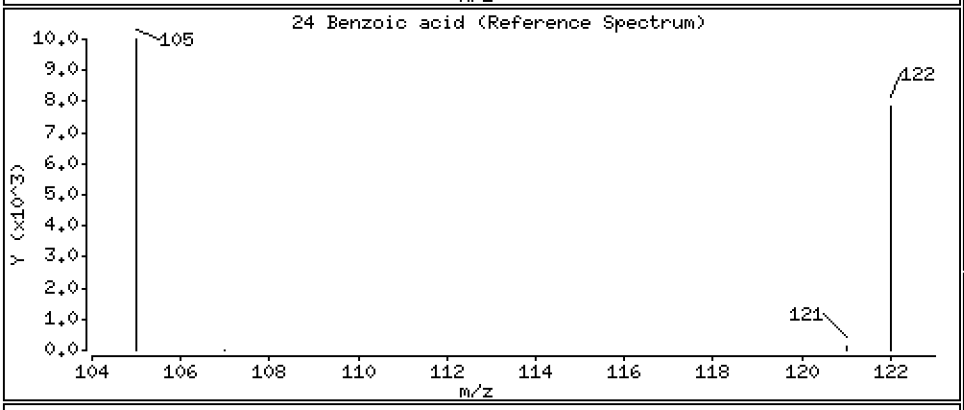
Column diameter: 0.25

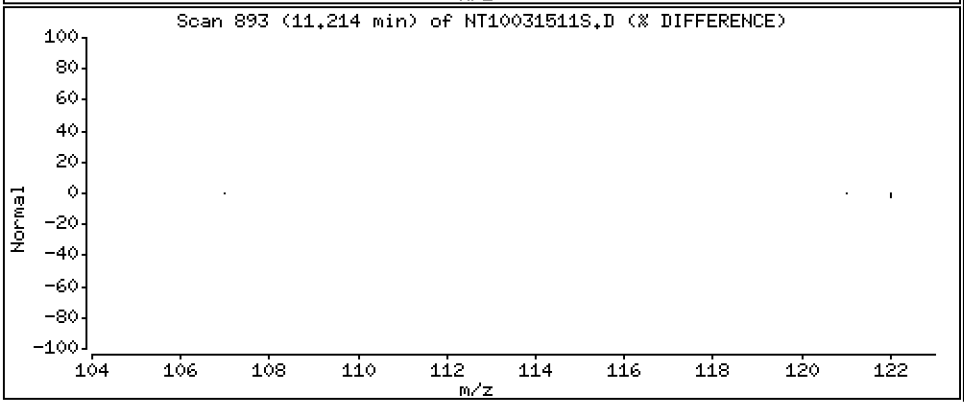
24 Benzoic acid

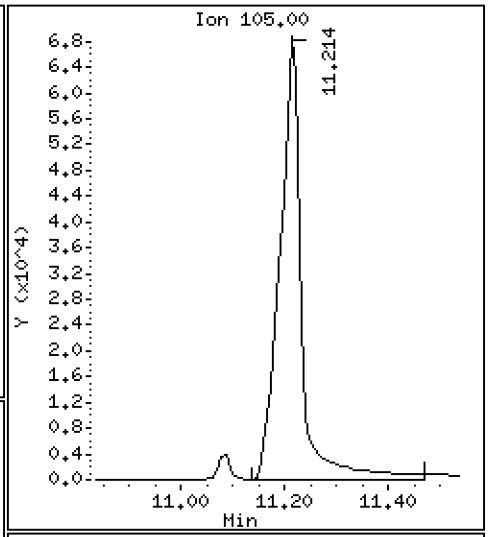
Concentration: 6.746 ug/L

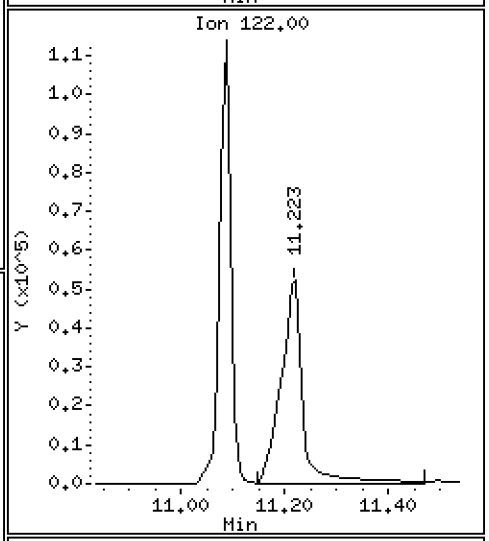


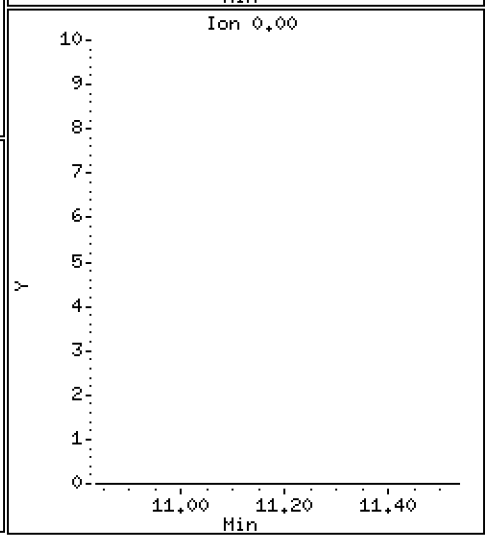












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

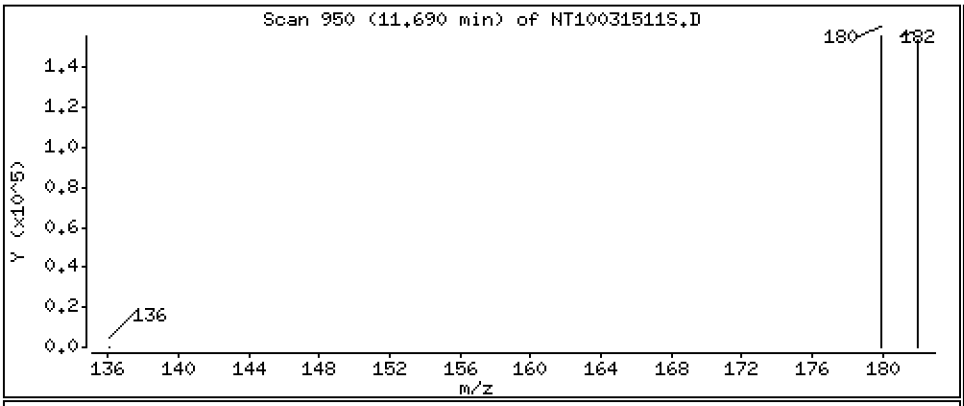
Operator: JGR

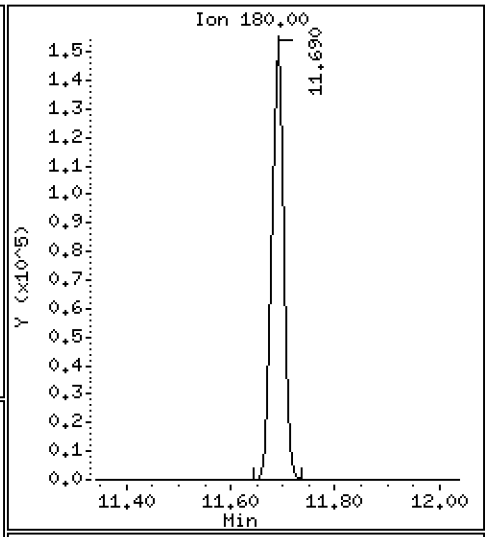
Column phase: ZB-5msi

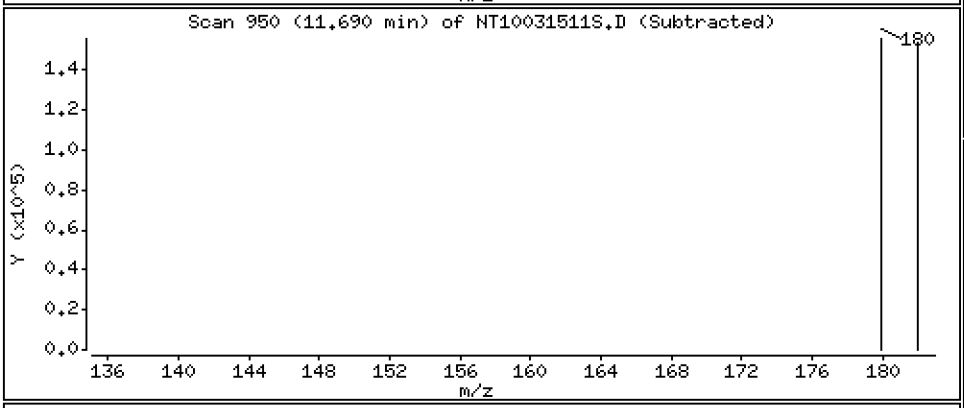
Column diameter: 0.25

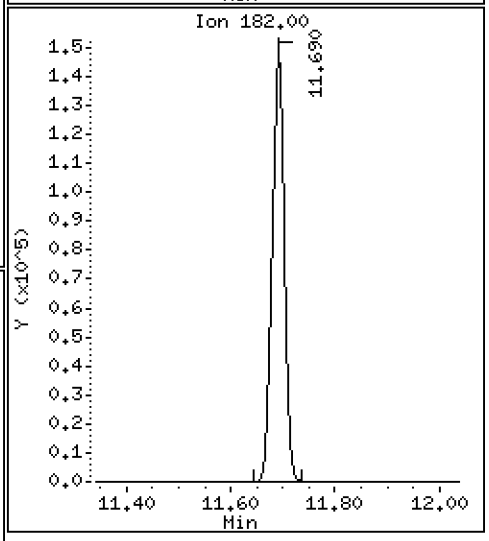
26 1,2,4-Trichlorobenzene

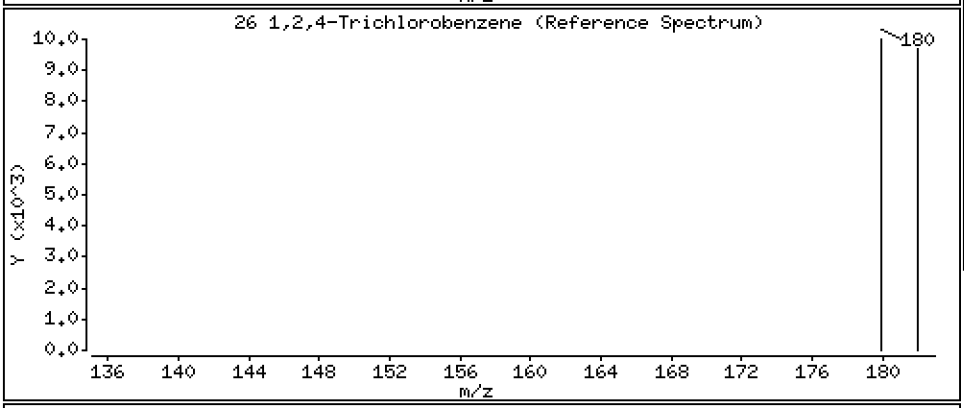
Concentration: 4.445 ug/L

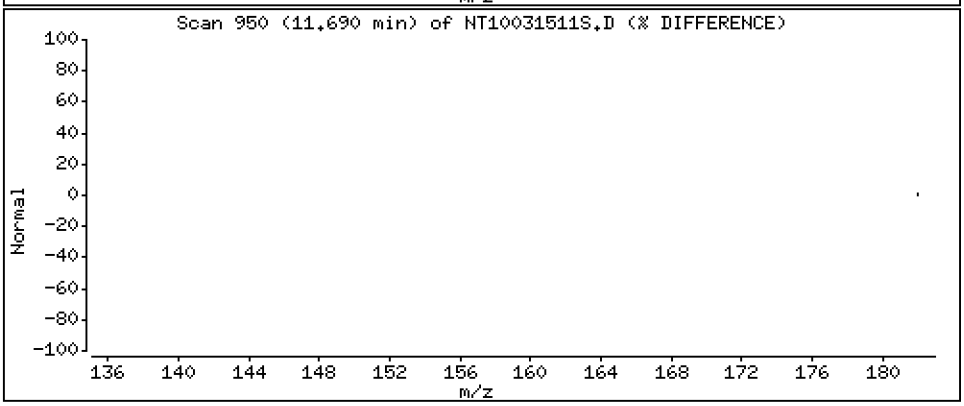












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

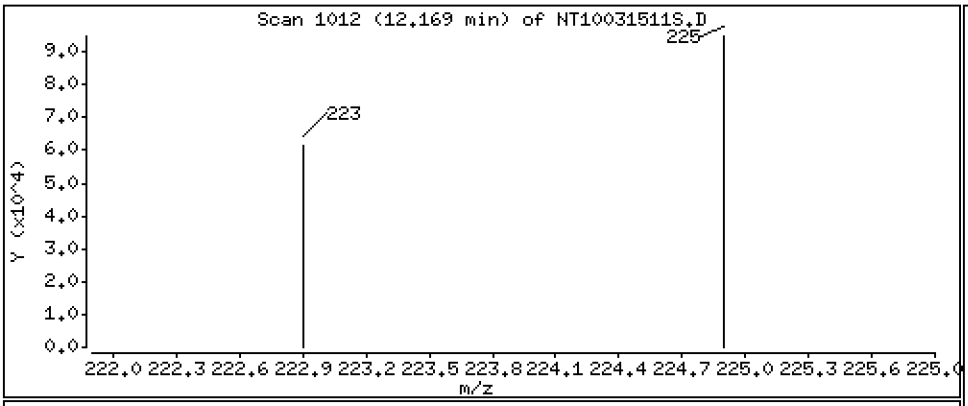
Operator: JGR

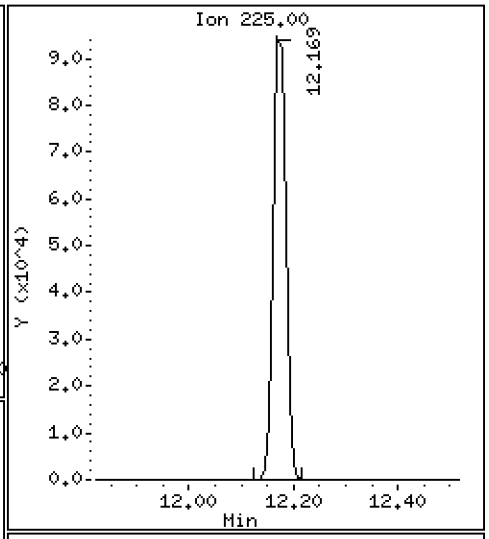
Column phase: ZB-5msi

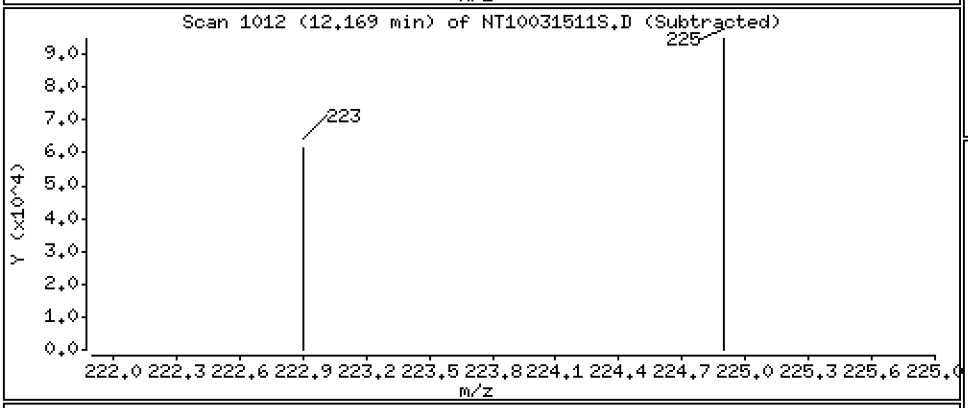
Column diameter: 0.25

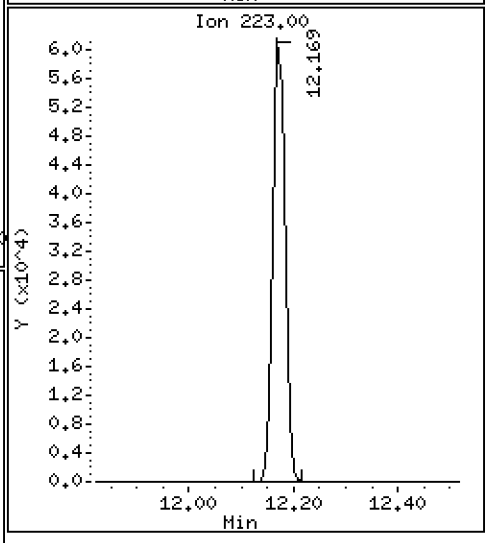
30 Hexachlorobutadiene

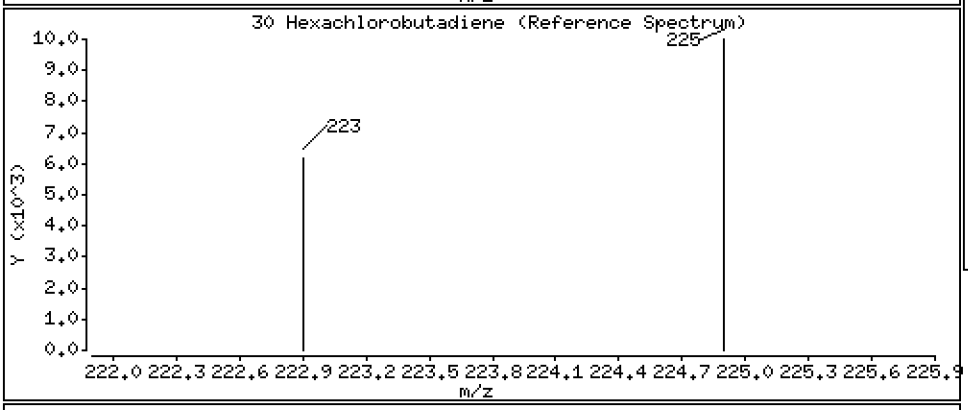
Concentration: 4.653 ug/L

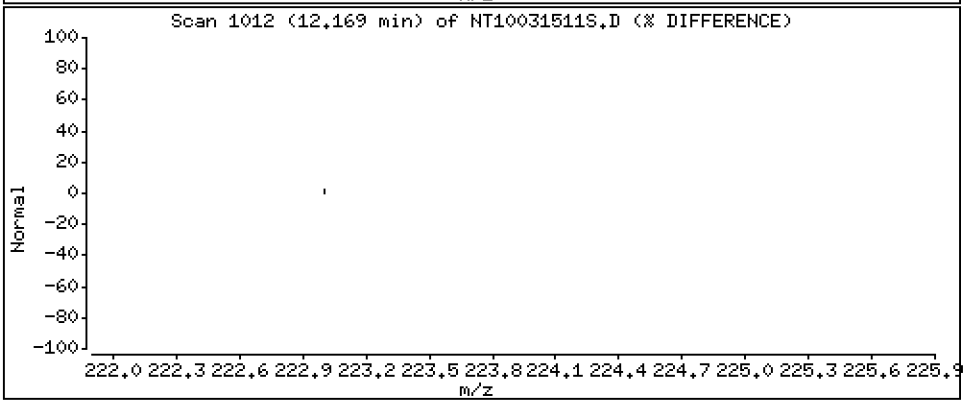












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

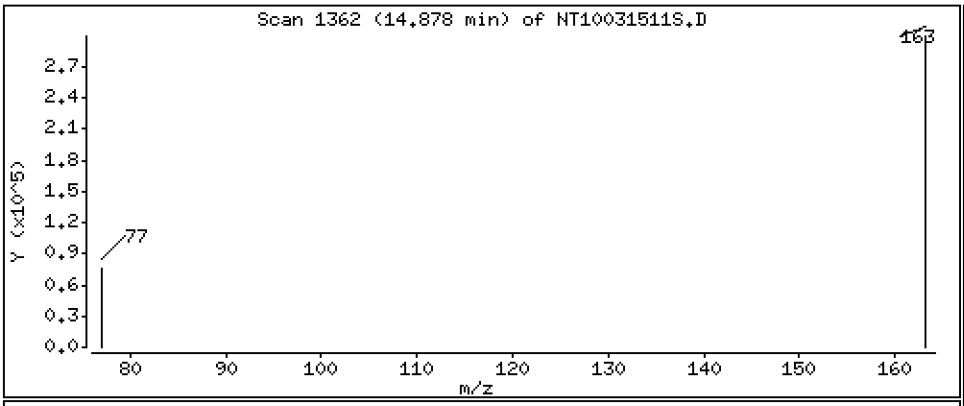
Operator: JGR

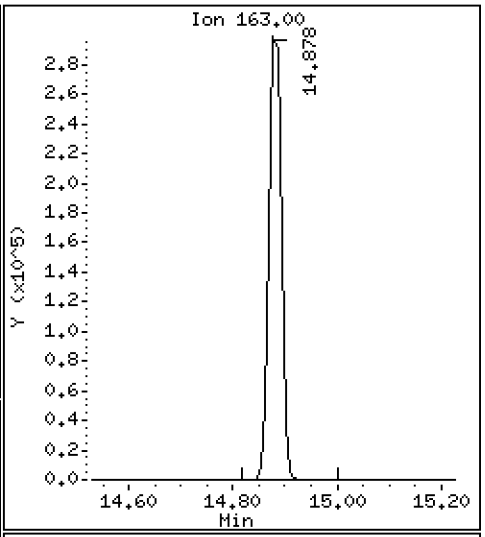
Column phase: ZB-5msi

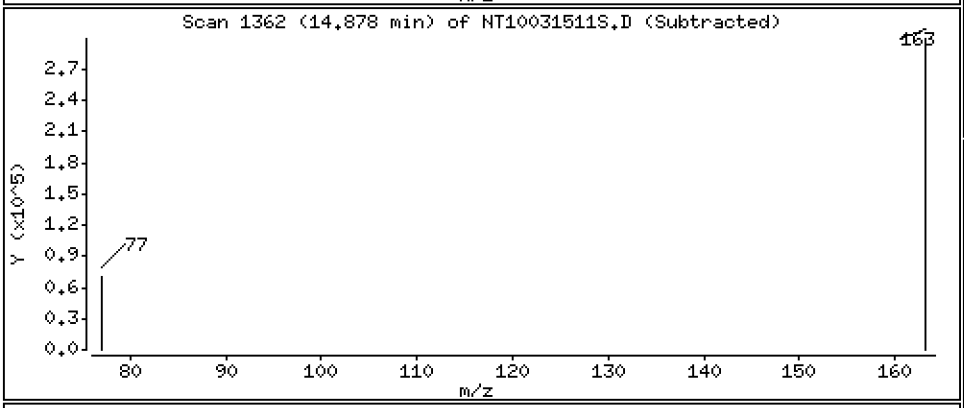
Column diameter: 0.25

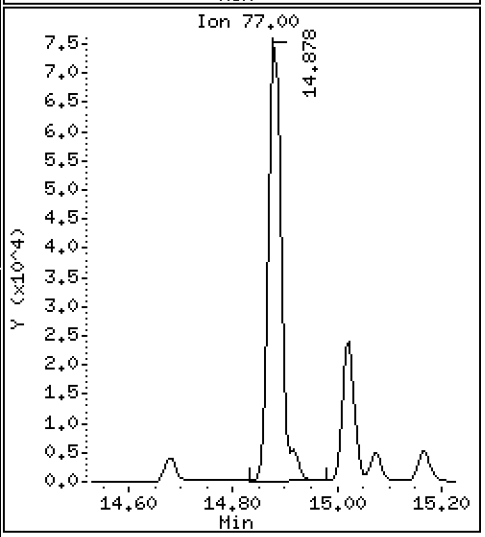
39 Dimethylphthalate

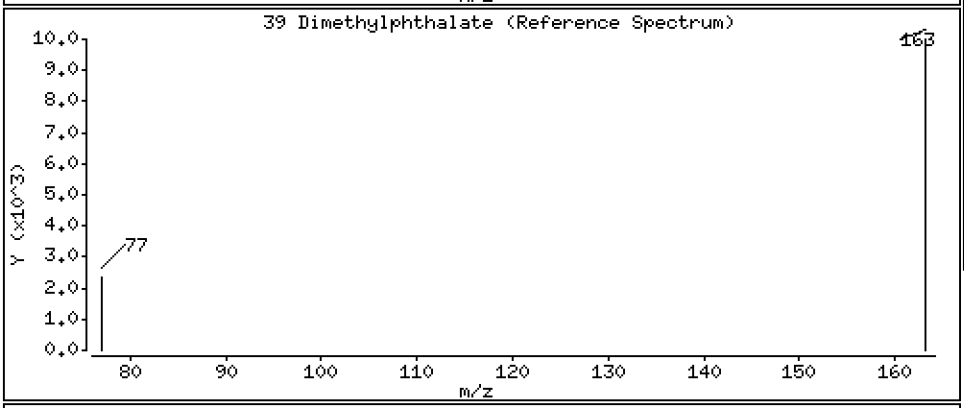
Concentration: 4.948 ug/L

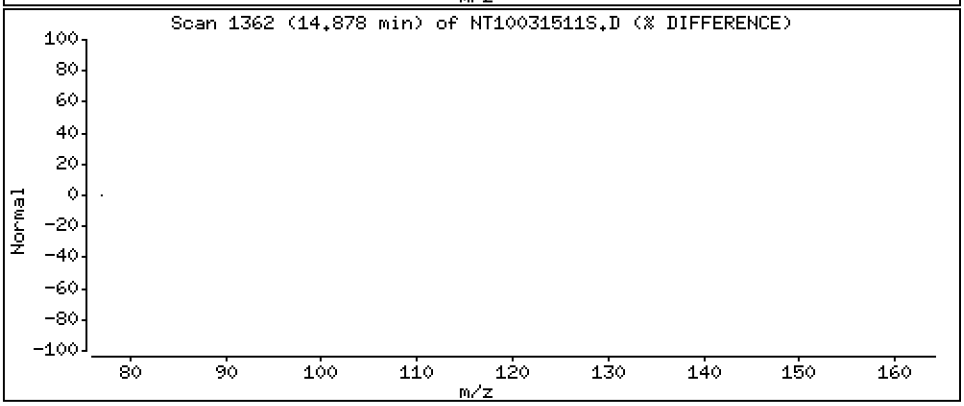












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

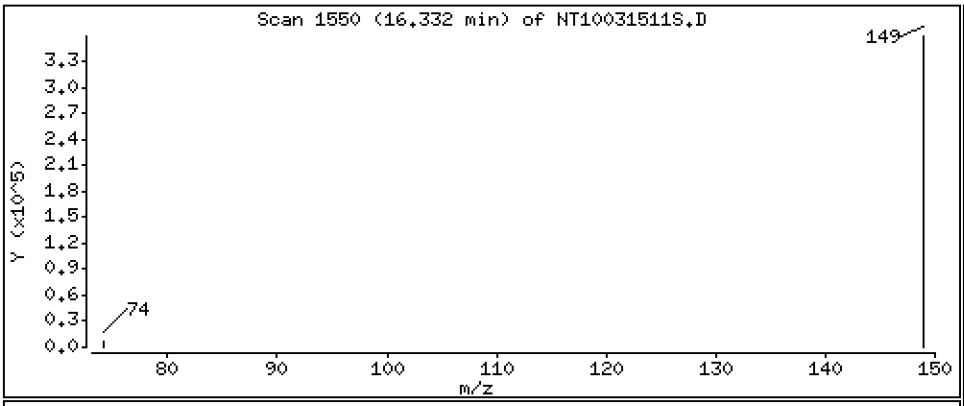
Operator: JGR

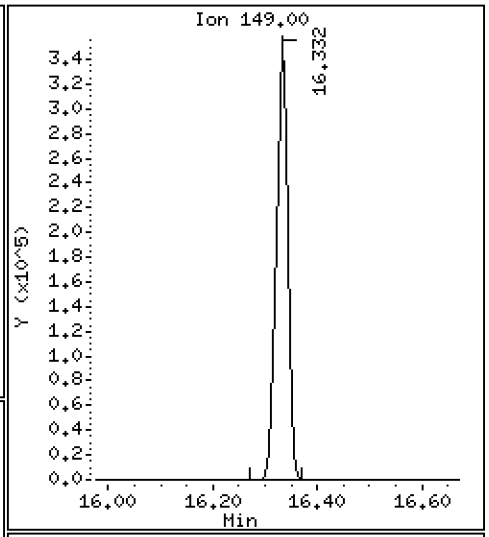
Column phase: ZB-5msi

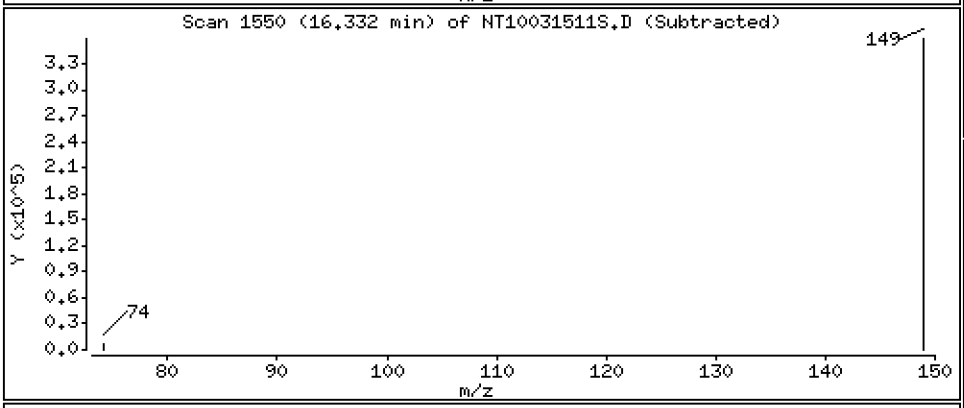
Column diameter: 0.25

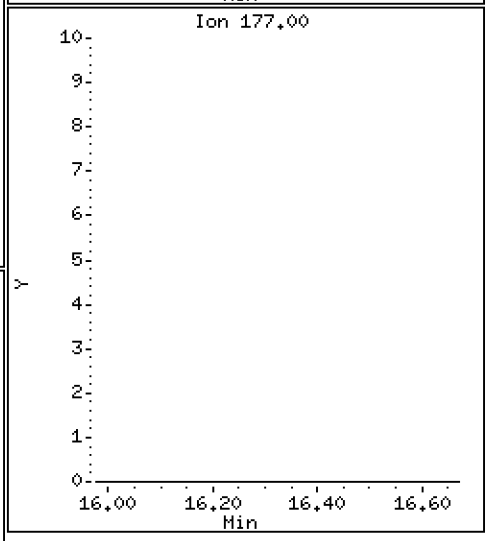
50 Diethylphthalate

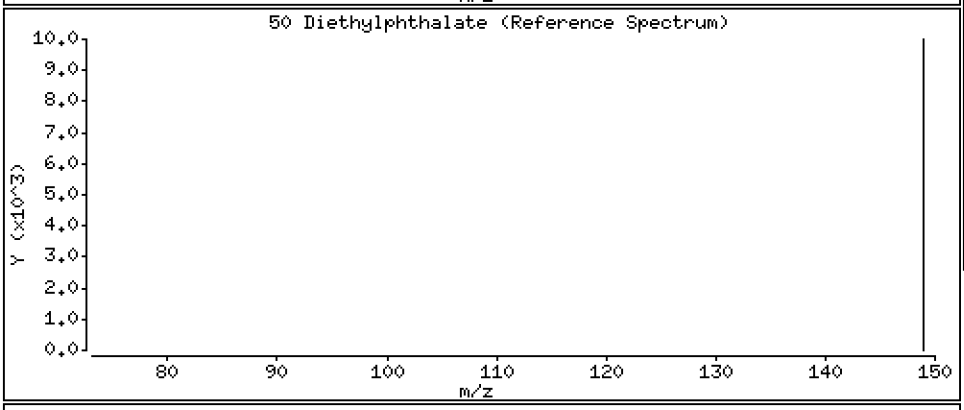
Concentration: 5.364 ug/L

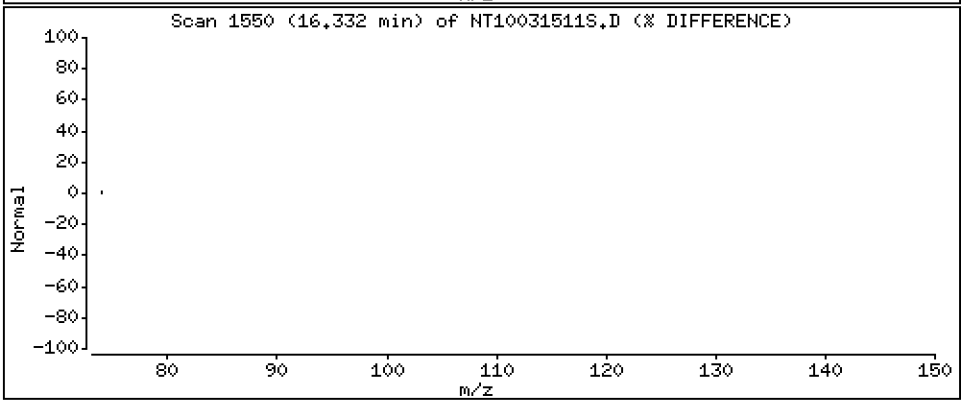












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

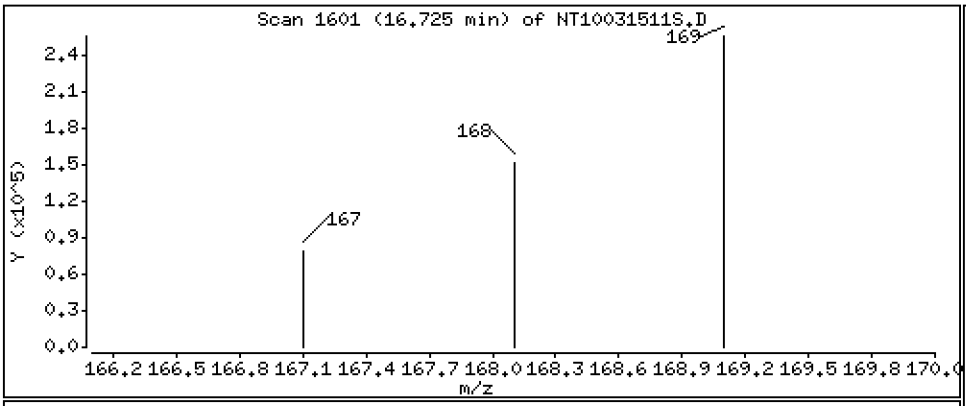
Operator: JGR

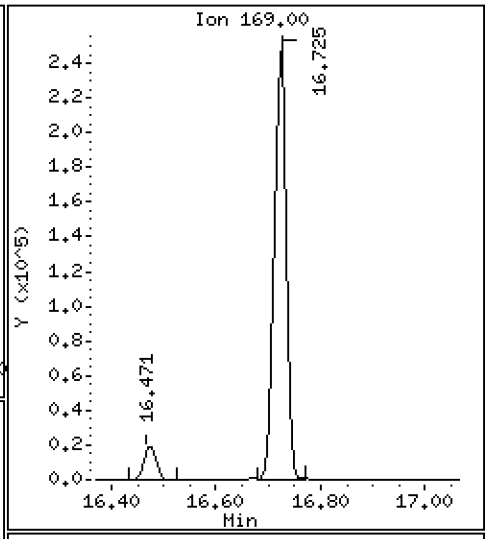
Column phase: ZB-5msi

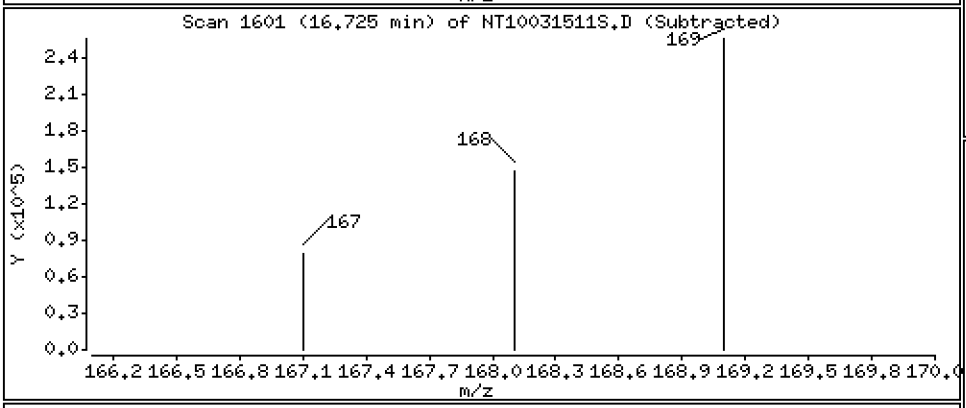
Column diameter: 0.25

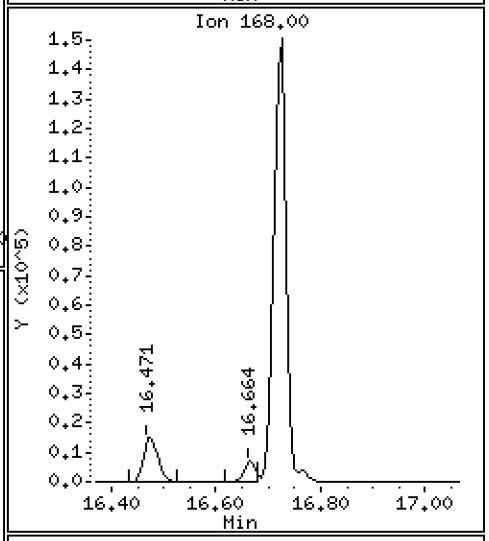
54 N-Nitrosodiphenylamine

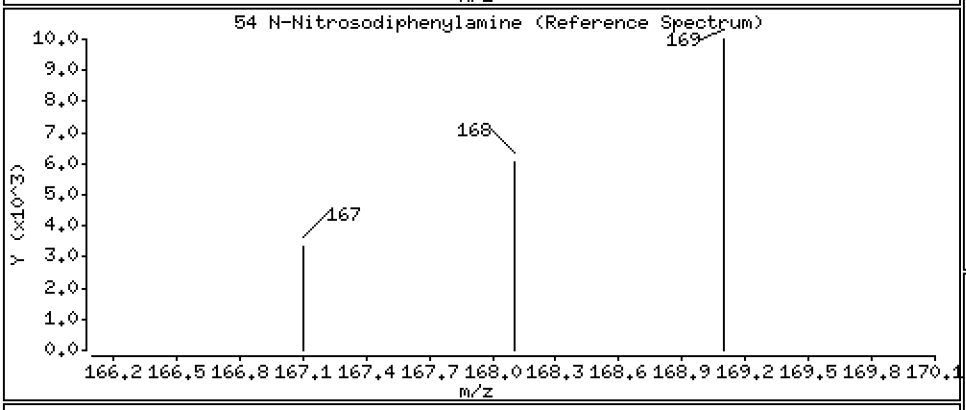
Concentration: 5.080 ug/L

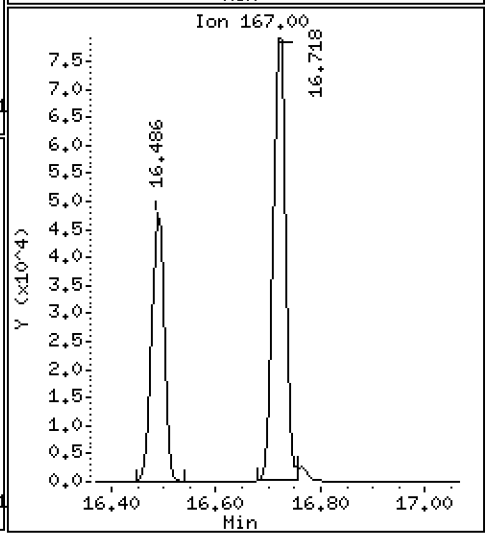


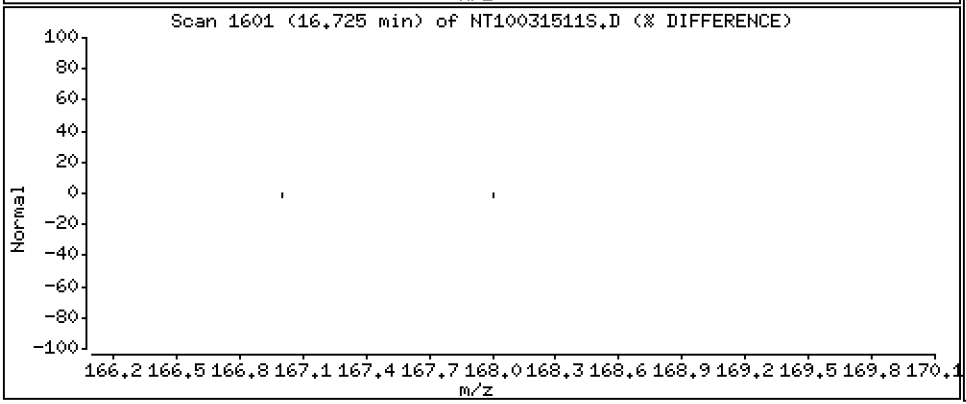












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

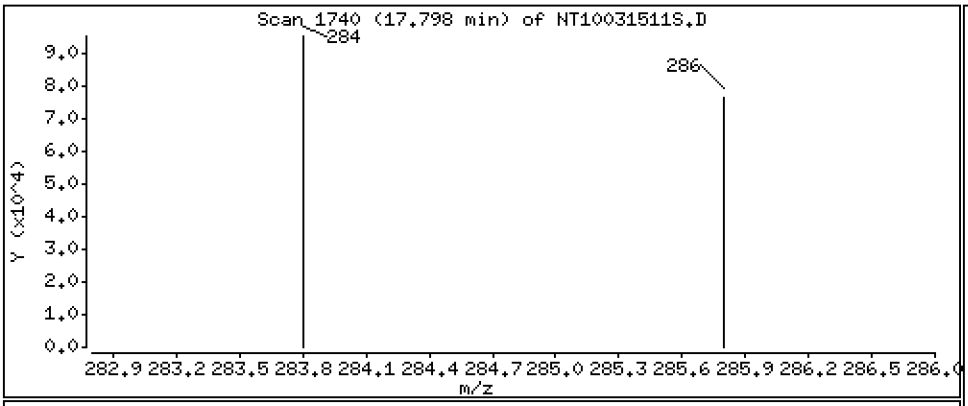
Operator: JGR

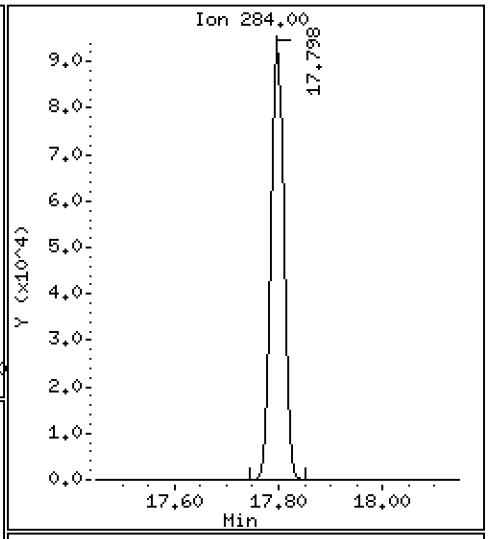
Column phase: ZB-5msi

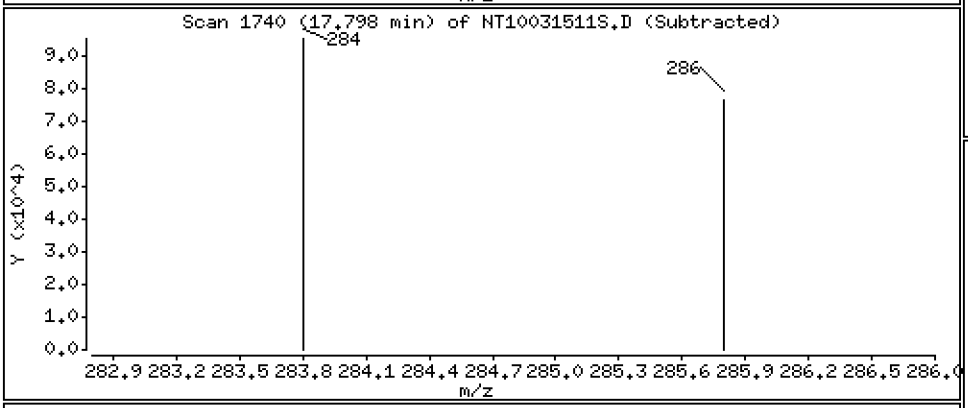
Column diameter: 0.25

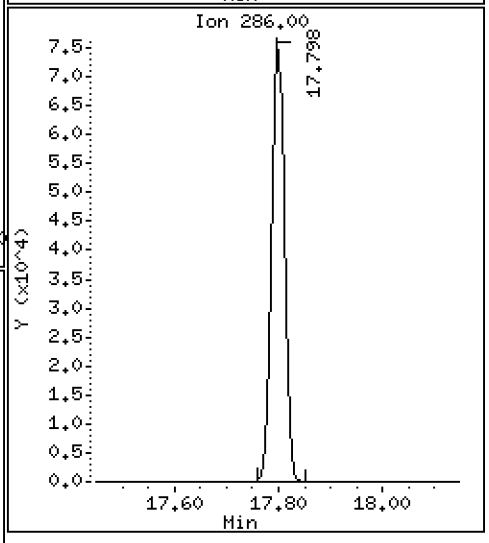
57 Hexachlorobenzene

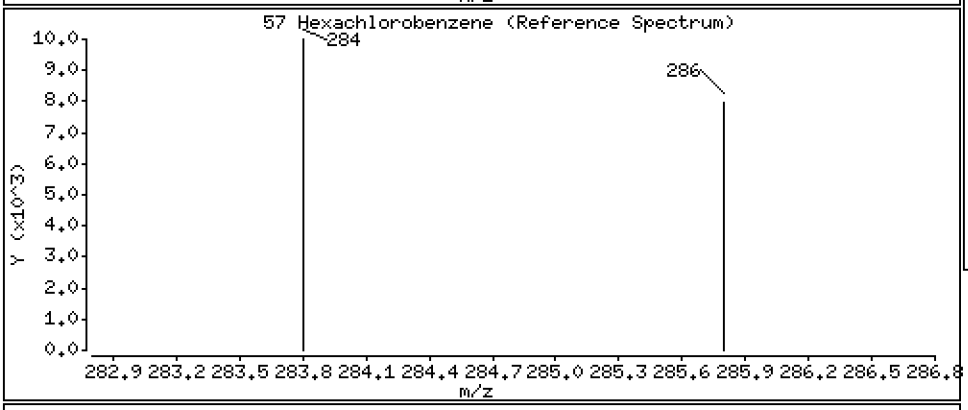
Concentration: 4.614 ug/L

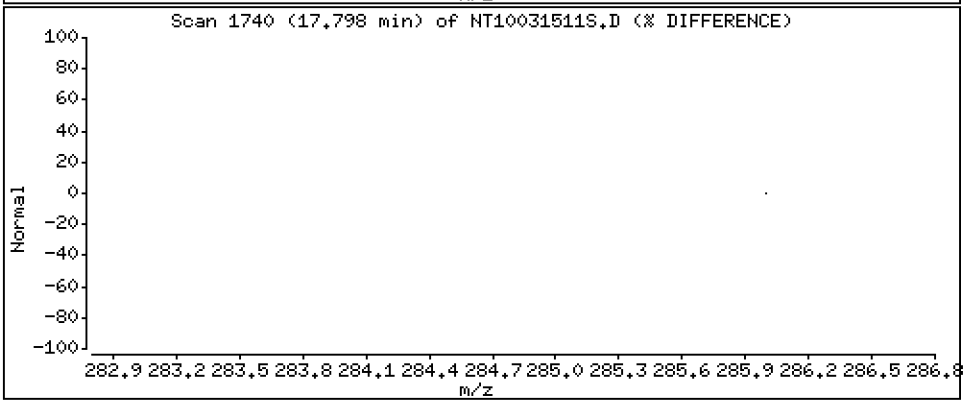












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

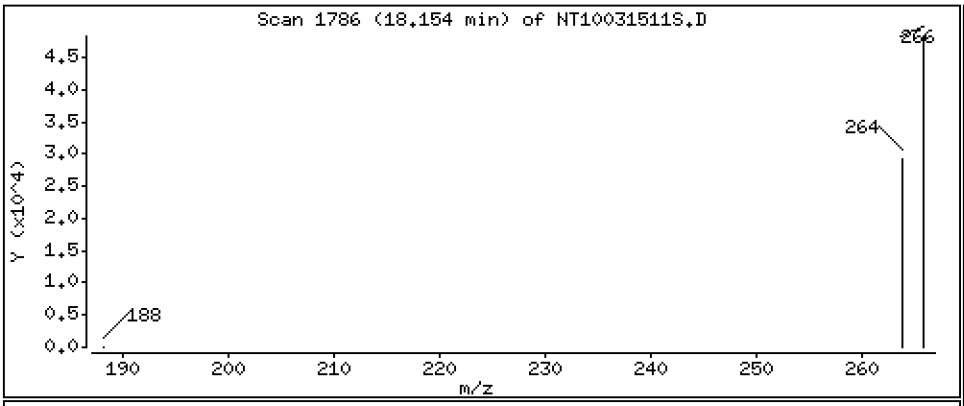
Operator: JGR

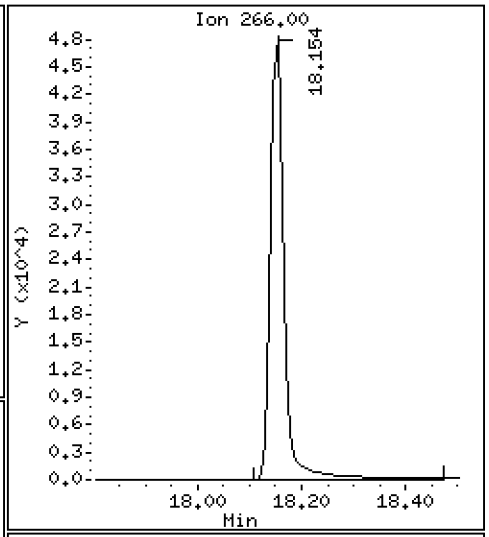
Column phase: ZB-5msi

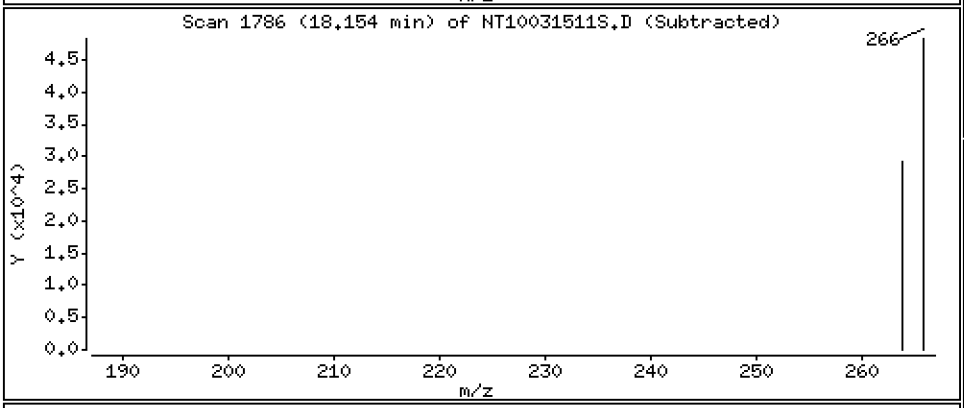
Column diameter: 0.25

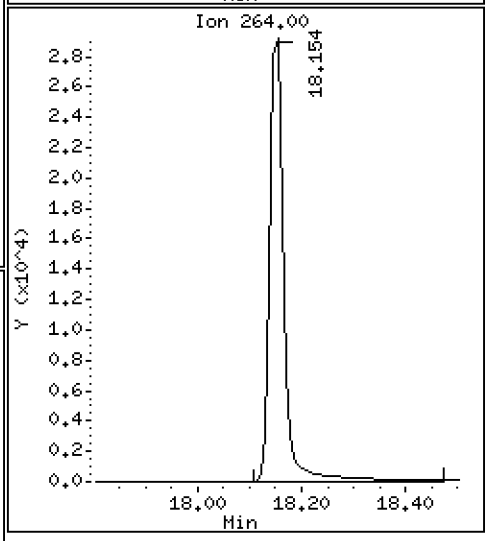
58 Pentachlorophenol

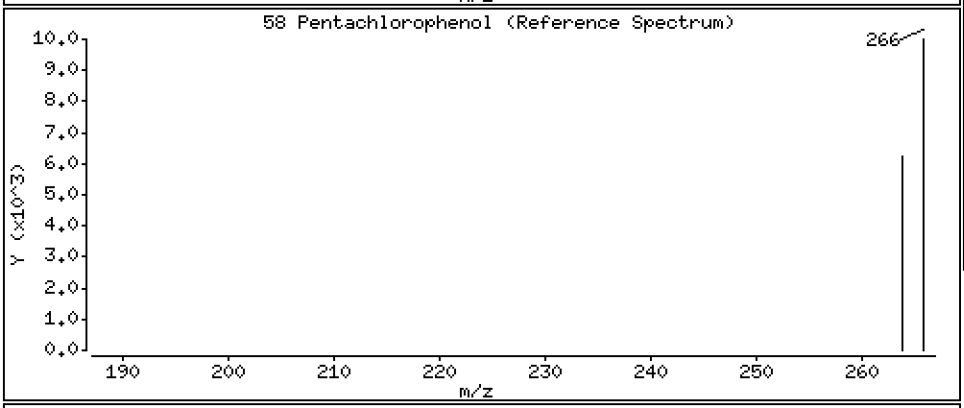
Concentration: 4.418 ug/L

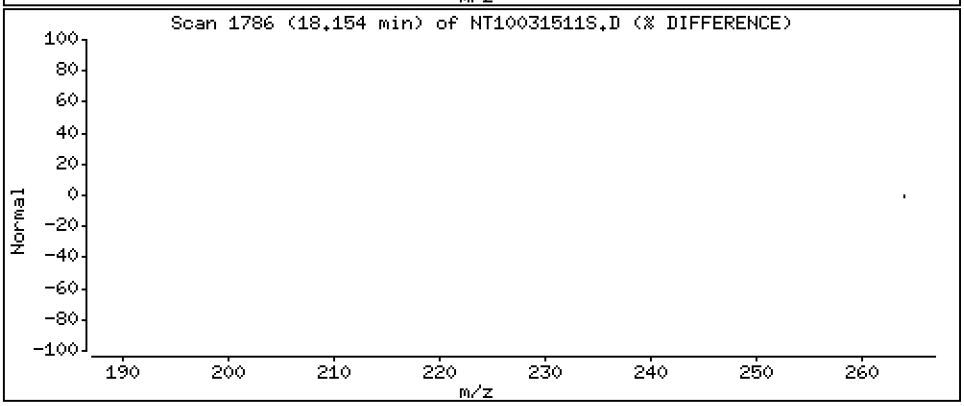












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

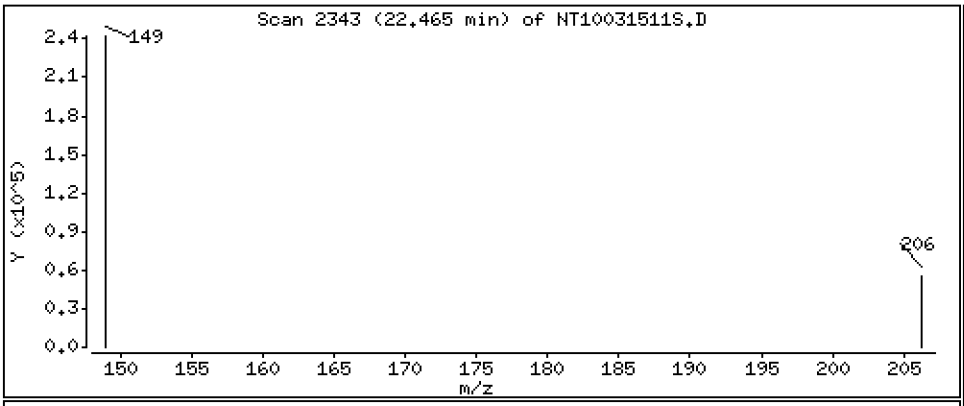
Operator: JGR

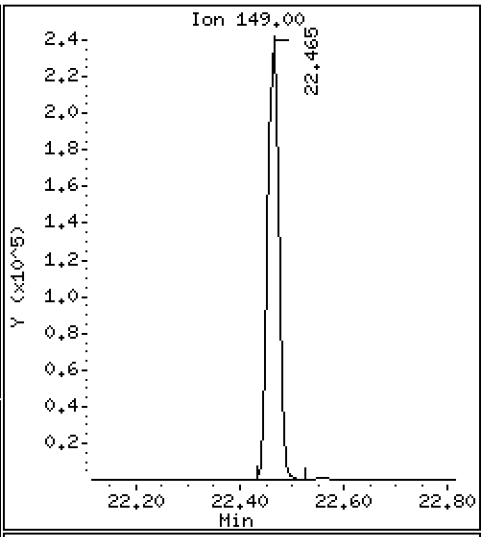
Column phase: ZB-5msi

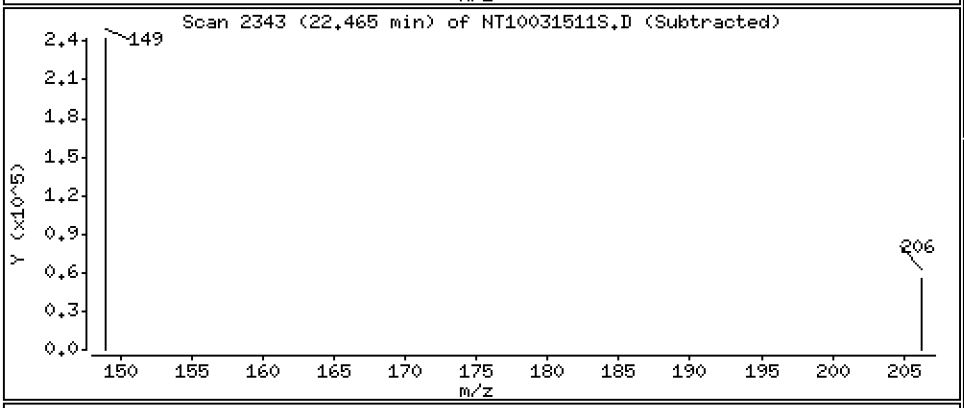
Column diameter: 0.25

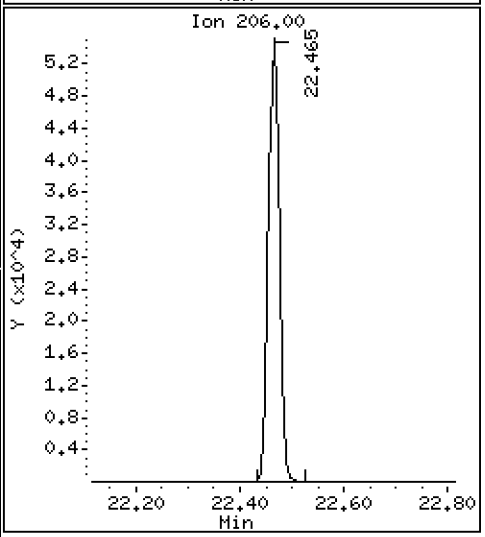
67 Butylbenzylphthalate

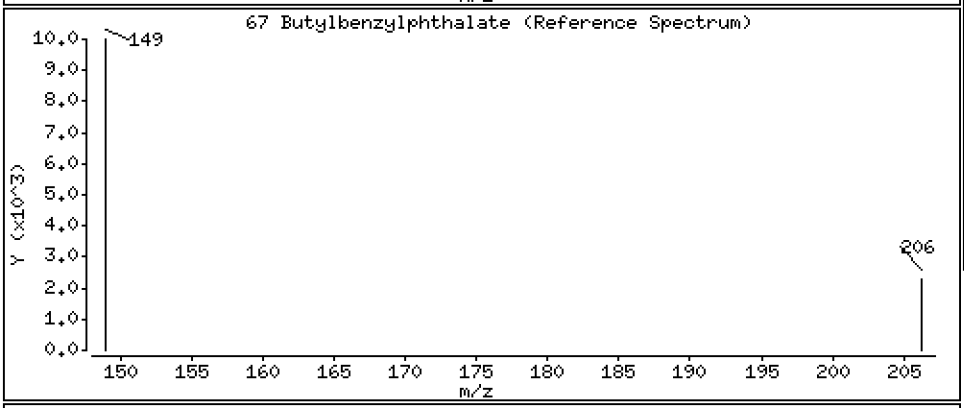
Concentration: 5.121 ug/L

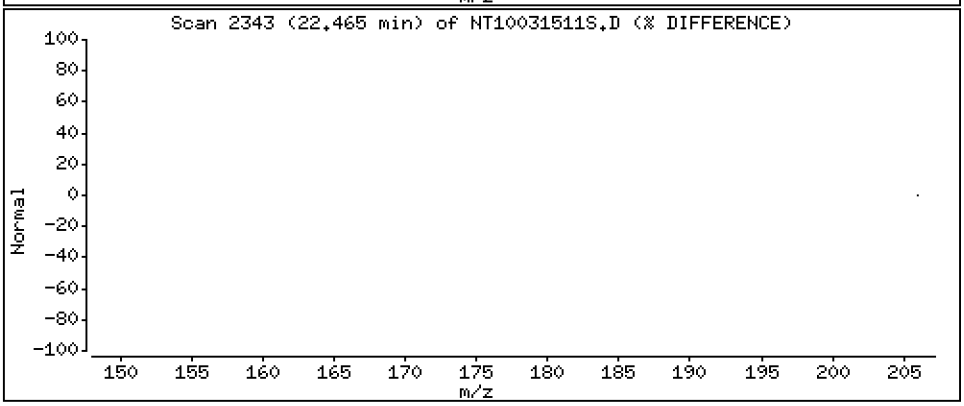












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

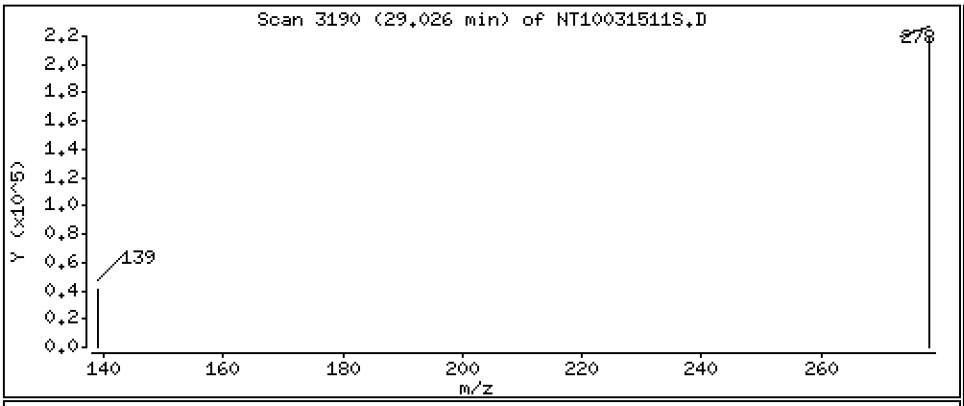
Operator: JGR

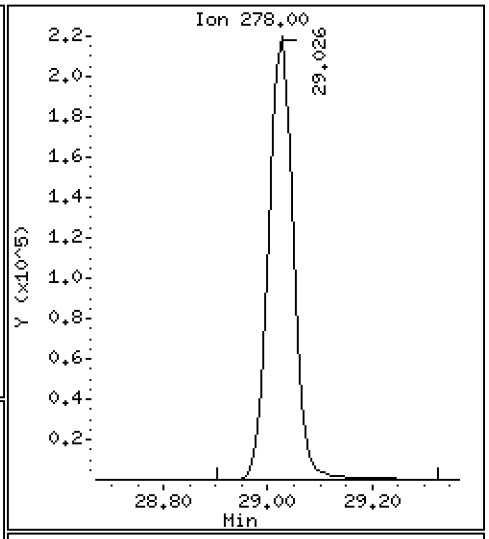
Column phase: ZB-5msi

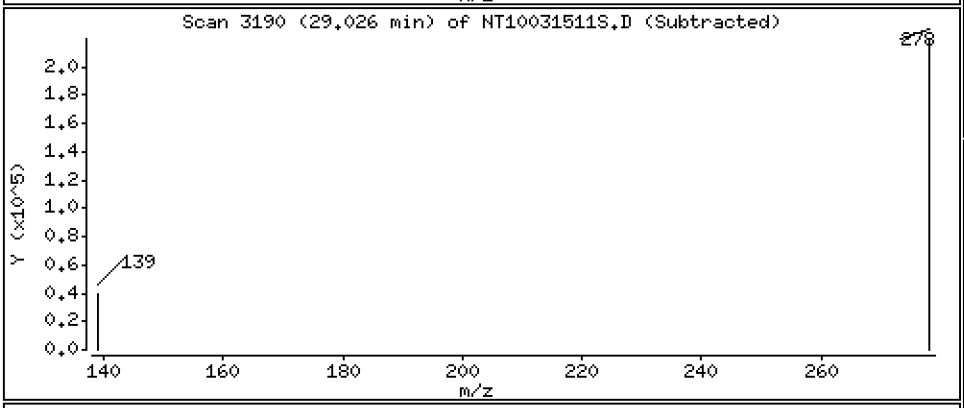
Column diameter: 0.25

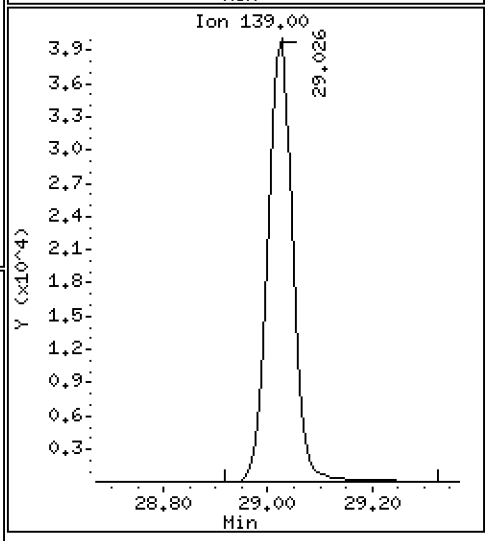
79 Dibenzo(a,h)anthracene

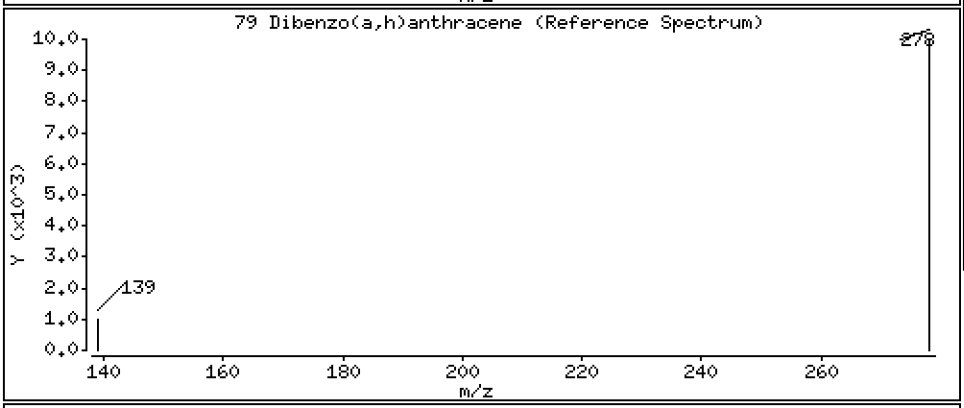
Concentration: 4.238 ug/L

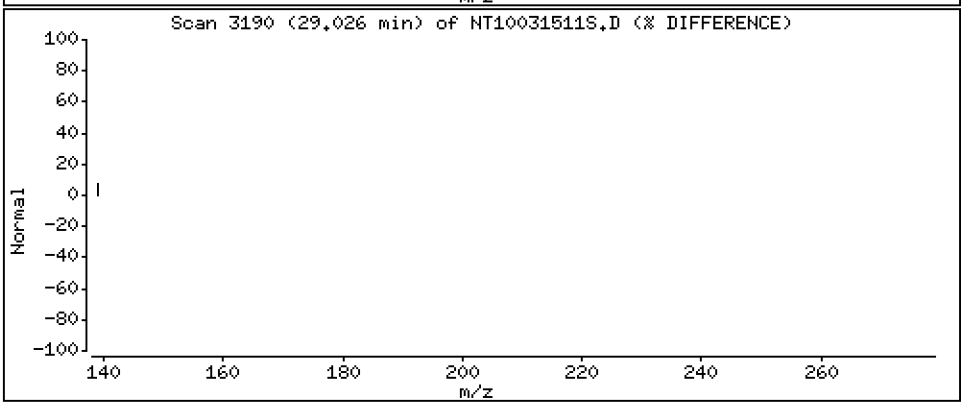












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

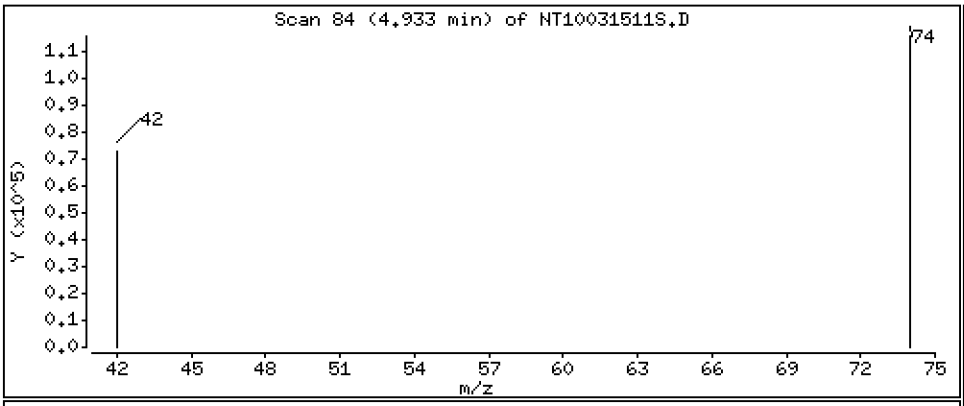
Operator: JGR

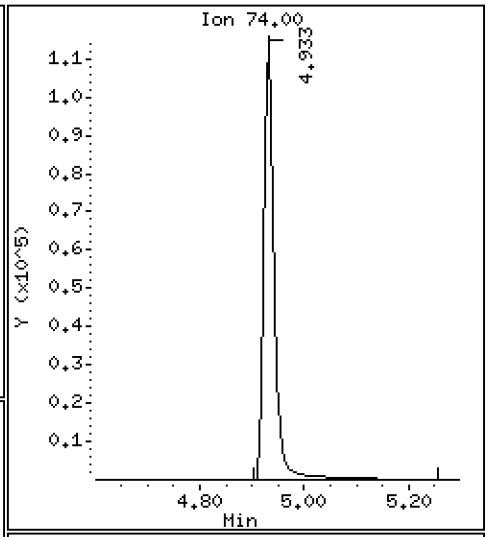
Column phase: ZB-5msi

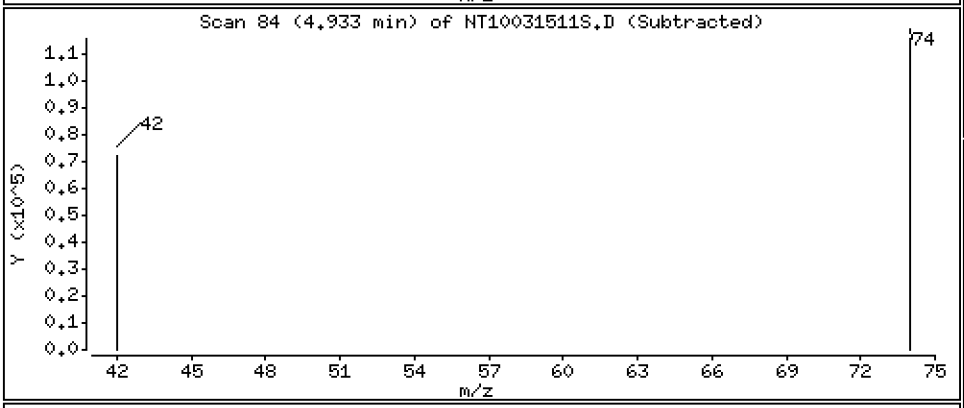
Column diameter: 0.25

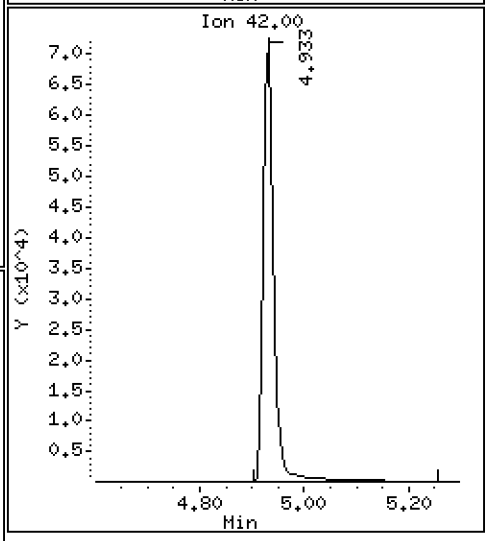
90 N-Nitrosodimethylamine

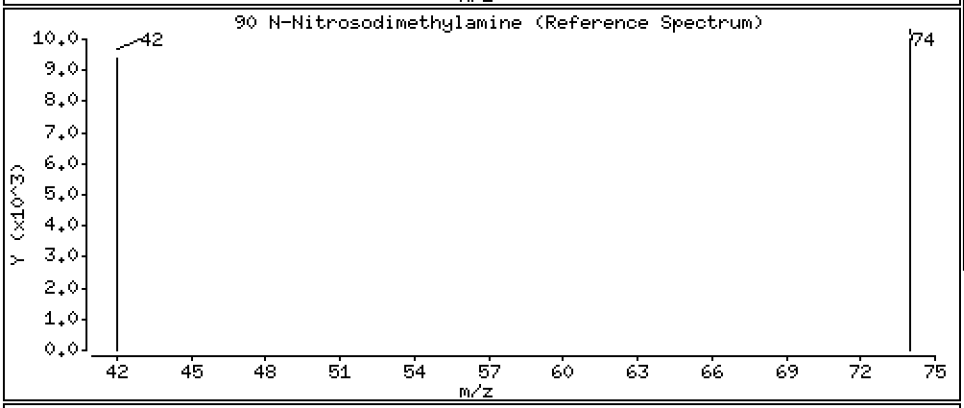
Concentration: 5.096 ug/L

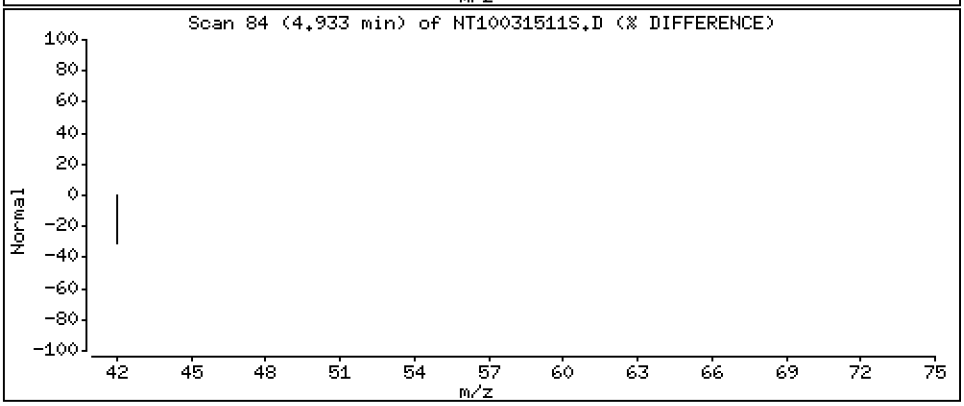












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D
Lab Smp Id: SLC0238-SCV1
Inj Date : 16-MAR-2023 02:16 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0238-SCV1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
$ 1	2-Fluorophenol	112	Compound Not Detected.					
3	Phenol	94	8.664	8.664	(0.931)	303581	4.37299	4.373
7	1,3-Dichlorobenzene	146	9.236	9.236	(0.992)	301605	4.64290	4.643
* 8	1,4-Dichlorobenzene-d4	152	9.306	9.298	(1.000)	166866	4.00000	
9	1,4-Dichlorobenzene	146	9.329	9.329	(1.002)	303390	4.83813	4.838
11	Benzyl alcohol	79	9.562	9.570	(1.028)	208505	5.18071	5.181
12	1,2-Dichlorobenzene	146	9.686	9.686	(1.041)	288539	4.67875	4.679
13	2-Methylphenol	108	9.772	9.772	(1.050)	201888	4.19698	4.197
15	4-Methylphenol	108	10.043	10.036	(1.079)	223083	4.46301	4.463
16	N-Nitroso-di-n-propylamine	70	10.121	10.113	(1.088)	186707	5.28174	5.282
22	2,4-Dimethylphenol	107	11.086	11.087	(0.942)	193654	3.66015	3.660
24	Benzoic acid	105	11.214	11.189	(0.952)	200487	6.74612	6.746
26	1,2,4-Trichlorobenzene	180	11.690	11.690	(0.993)	236605	4.44540	4.445
* 27	Naphthalene-d8	136	11.775	11.775	(1.000)	612104	4.00000	
30	Hexachlorobutadiene	225	12.169	12.169	(1.033)	150581	4.65339	4.653
39	Dimethylphthalate	163	14.877	14.877	(0.967)	472341	4.94766	4.948
* 42	Acenaphthene-d10	162	15.388	15.380	(1.000)	302524	4.00000	
50	Diethylphthalate	149	16.331	16.324	(1.061)	530540	5.36440	5.364
54	N-Nitrosodiphenylamine	169	16.725	16.717	(0.908)	377357	5.08034	5.080
57	Hexachlorobenzene	284	17.798	17.798	(0.966)	153405	4.61353	4.614

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	18.154	18.154	(0.985)	83223	4.41780	4.418
*	59 Phenanthrene-d10	188	18.425	18.417	(1.000)	553619	4.00000	
$	66 Terphenyl-d14	244	21.543	21.543	(0.918)	117	0.00154	0.001543(RM)
	67 Butylbenzylphthalate	149	22.464	22.465	(0.958)	332887	5.12147	5.121
*	69 Chrysene-d12	240	23.455	23.455	(1.000)	465428	4.00000	
*	77 Perylene-d12	264	26.188	26.188	(1.000)	532593	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.026	29.019	(1.108)	722983	4.23762	4.238
	90 N-Nitrosodimethylamine	74	4.933	4.948	(0.530)	163555	5.09625	5.096

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031511S.D
Lab Smp Id: SLC0238-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 23:06
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	188081	94041	376162	166866	-11.28
27 Naphthalene-d8	674549	337275	1349098	612104	-9.26
42 Acenaphthene-d10	328275	164138	656550	302524	-7.84
59 Phenanthrene-d10	597140	298570	1194280	553619	-7.29
69 Chrysene-d12	466503	233252	933006	465428	-0.23
77 Perylene-d12	518203	259102	1036406	532593	2.78

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.31	0.08
27 Naphthalene-d8	11.77	11.27	12.27	11.78	0.01
42 Acenaphthene-d10	15.39	14.89	15.89	15.39	0.01
59 Phenanthrene-d10	18.42	17.92	18.92	18.43	0.00
69 Chrysene-d12	23.45	22.95	23.95	23.46	0.00
77 Perylene-d12	26.19	25.69	26.69	26.19	0.00

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

REVIEW SUMMARY FOR FILE - NT10031511S.D

Lab ID: SLC0238-SCV1
nt10.i, 20230315.b\20230315.b\SIMABN2.m,   16-MAR-2023 02:16

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.952	0.000	0.9524	Benzoic acid

RRT check based on Ccal File: 20230315.b/NT10031510S.D

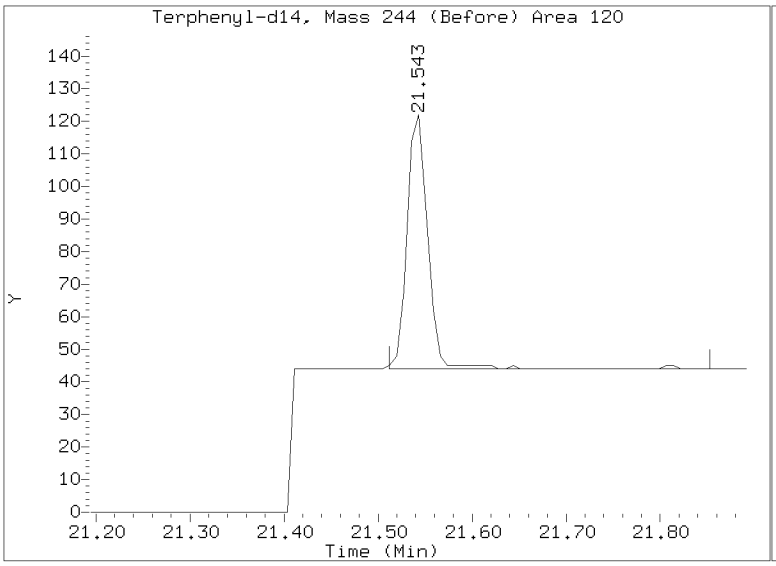
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

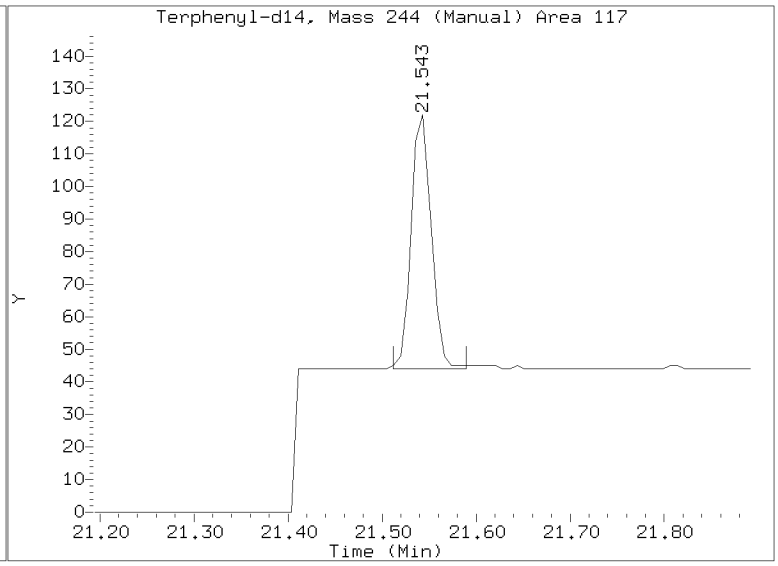
Exception: 1,2,4-Trichlorobenzene 0.0010

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031511S.D
Injection Date: 16-MAR-2023 02:16
Lab ID:SLC0238-SCV1 Client ID:
Report Date: 03/16/2023 14:49





Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT100315128.D

Date : 16-MAR-2023 02:54

Client ID:

Instrument: nt10.i

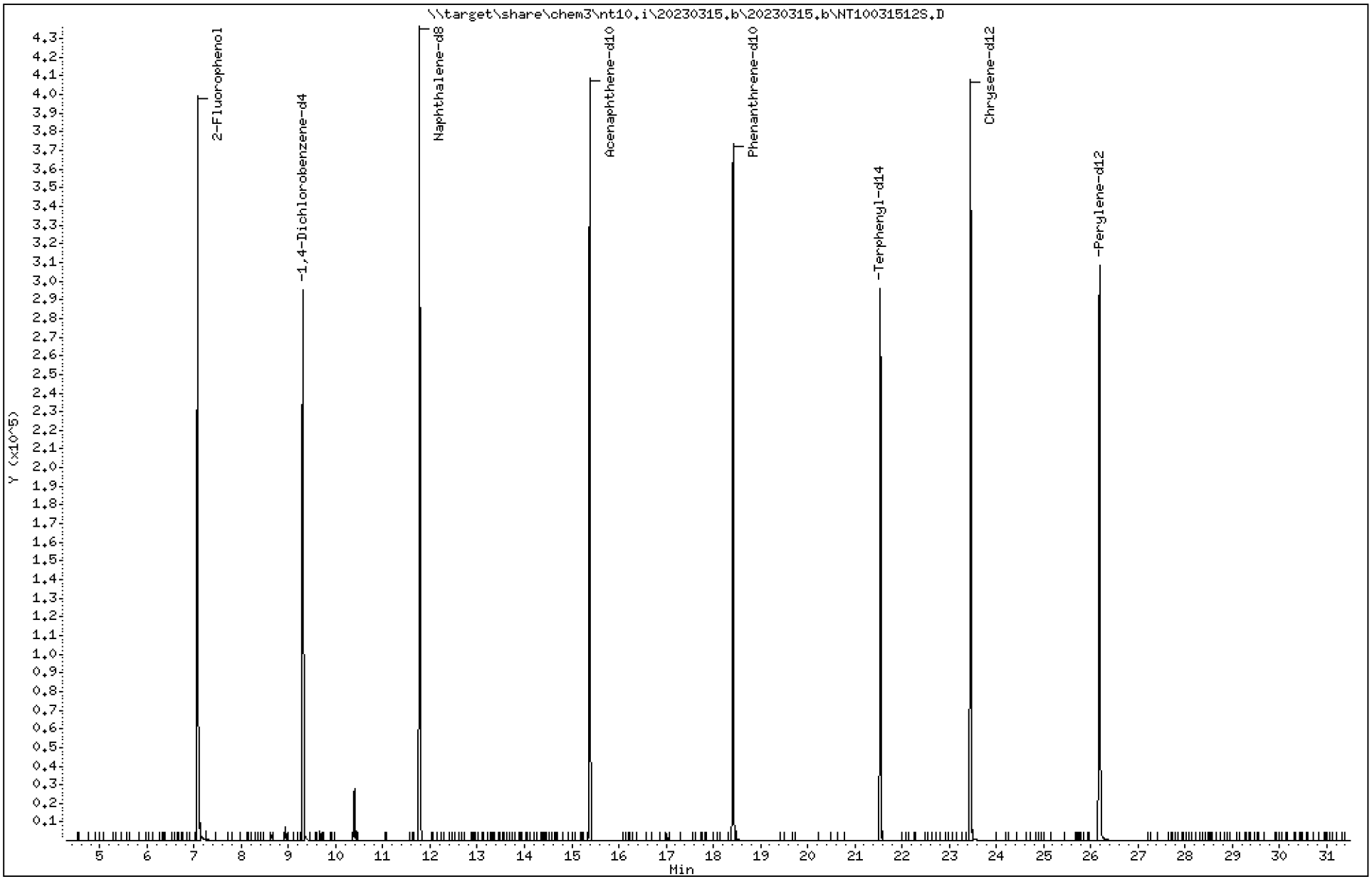
Sample Info: SLC0238-ICB1

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031512S.D
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Inj Date : 16-MAR-2023 02:54 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0238-ICB1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	7.072	7.073	(0.760)	392056	6.82342	6.823(R)
3	Phenol	94	Compound Not Detected.					
7	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8	1,4-Dichlorobenzene-d4	152	9.306	9.298	(1.000)	189475	4.00000	
9	1,4-Dichlorobenzene	146	Compound Not Detected.					
11	Benzyl alcohol	79	Compound Not Detected.					
12	1,2-Dichlorobenzene	146	Compound Not Detected.					
13	2-Methylphenol	108	Compound Not Detected.					
15	4-Methylphenol	108	Compound Not Detected.					
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
22	2,4-Dimethylphenol	107	Compound Not Detected.					
24	Benzoic acid	105	Compound Not Detected.					
26	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
* 27	Naphthalene-d8	136	11.774	11.775	(1.000)	676186	4.00000	
30	Hexachlorobutadiene	225	Compound Not Detected.					
39	Dimethylphthalate	163	Compound Not Detected.					
* 42	Acenaphthene-d10	162	15.379	15.380	(1.000)	328650	4.00000	
50	Diethylphthalate	149	Compound Not Detected.					
54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
57	Hexachlorobenzene	284	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
58	Pentachlorophenol	266	Compound Not Detected.					
* 59	Phenanthrene-d10	188	18.424	18.417	(1.000)	617605	4.00000	
$ 66	Terphenyl-d14	244	21.542	21.543	(0.918)	340833	4.41767	4.418(R)
67	Butylbenzylphthalate	149	Compound Not Detected.					
* 69	Chrysene-d12	240	23.454	23.455	(1.000)	473513	4.00000	
* 77	Perylene-d12	264	26.187	26.188	(1.000)	534734	4.00000	
79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
90	N-Nitrosodimethylamine	74	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031512S.D
Lab Smp Id: SLC0238-ICB1
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 23:06
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	188081	94041	376162	189475	0.74
27 Naphthalene-d8	674549	337275	1349098	676186	0.24
42 Acenaphthene-d10	328275	164138	656550	328650	0.11
59 Phenanthrene-d10	597140	298570	1194280	617605	3.43
69 Chrysene-d12	466503	233252	933006	473513	1.50
77 Perylene-d12	518203	259102	1036406	534734	3.19

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.31	0.08
27 Naphthalene-d8	11.77	11.27	12.27	11.77	-0.00
42 Acenaphthene-d10	15.39	14.89	15.89	15.38	-0.05
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	-0.00
69 Chrysene-d12	23.45	22.95	23.95	23.45	-0.00
77 Perylene-d12	26.19	25.69	26.69	26.19	-0.00

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

REVIEW SUMMARY FOR FILE - NT10031512S.D

Lab ID: SLC0238-ICB1
nt10.i, 20230315.b\20230315.b\SIMABN2.m,   16-MAR-2023 02:54

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230315.b/NT10031510S.D

On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GC00049
Laboratory ID: SLC0238-SCV1
Sequence: SLC0238
Sequence Name: SCV 5.0
Standard ID: K010066

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
1,4-Dichlorobenzene	5.0000	4.8	-3.2	20.00
1,2-Dichlorobenzene	5.0000	4.7	-6.4	20.00
Benzyl Alcohol	5.0000	5.2	3.6	20.00
Benzoic acid	10.000	6.7	-32.5 *	20.00
2,4-Dimethylphenol	5.0000	3.7	-26.8 *	20.00
1,2,4-Trichlorobenzene	5.0000	4.4	-11.1	20.00
N-Nitrosodiphenylamine	5.0000	5.1	1.6	20.00
Pentachlorophenol	5.0000	4.4	-11.6	20.00
2-Fluorophenol	7.5000	0.00		
p-Terphenyl-d14	5.0000	0.00154	-100	

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

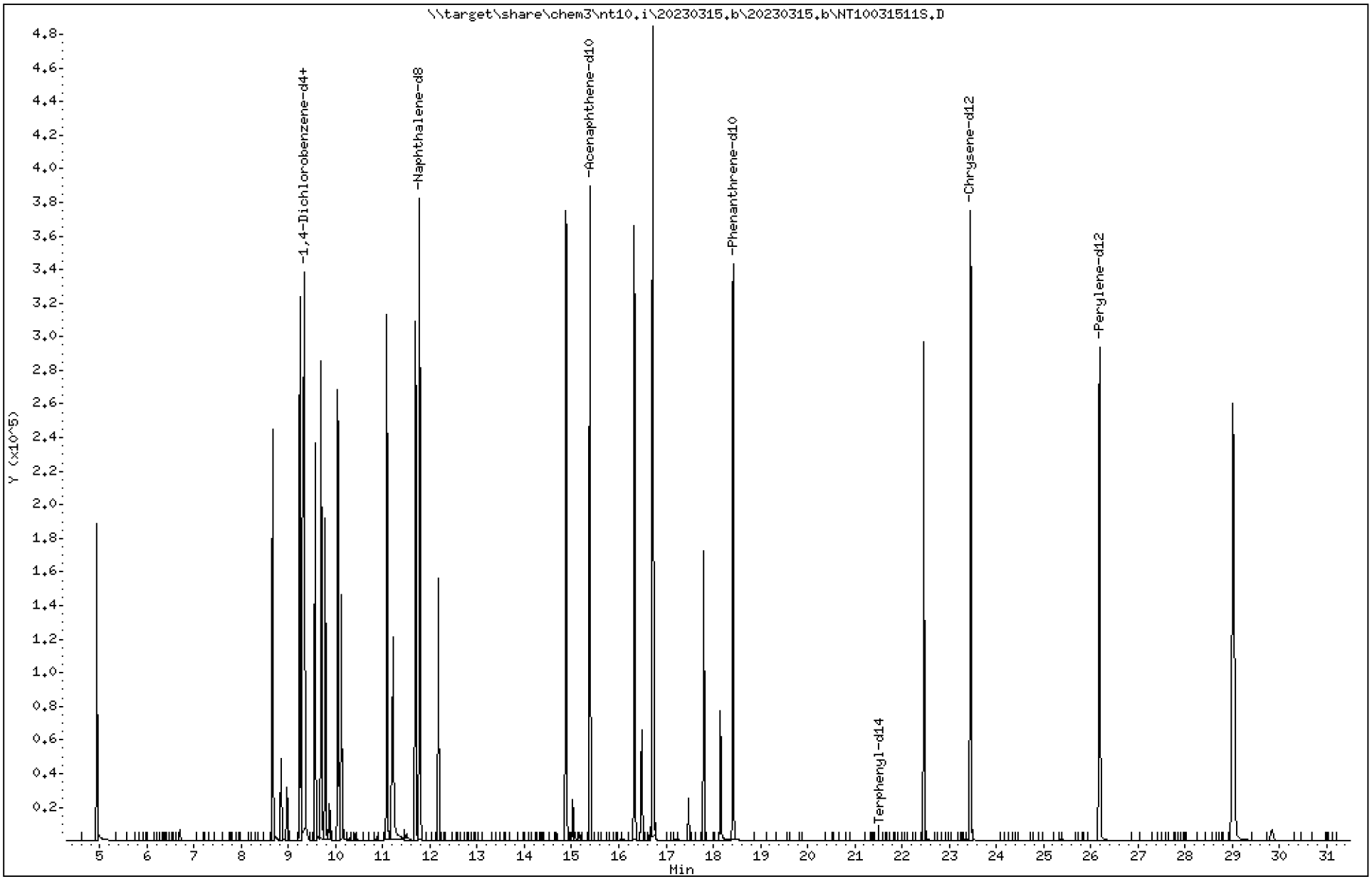
Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

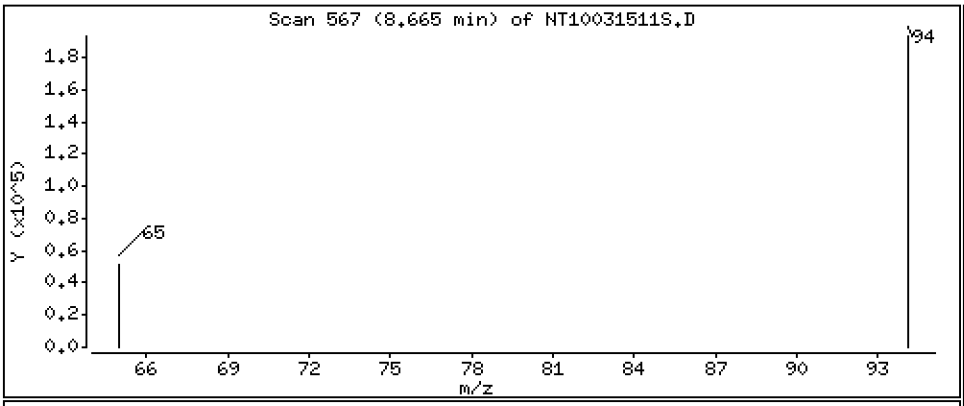
Operator: JGR

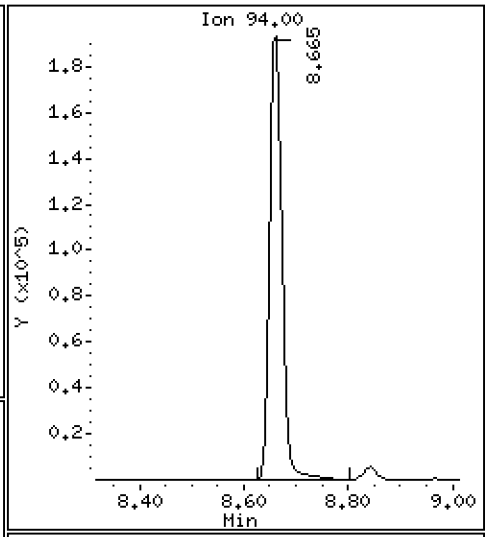
Column phase: ZB-5msi

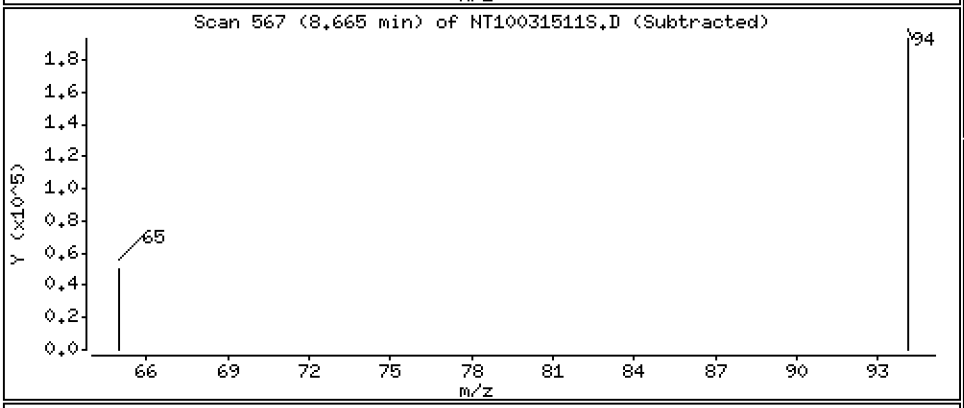
Column diameter: 0.25

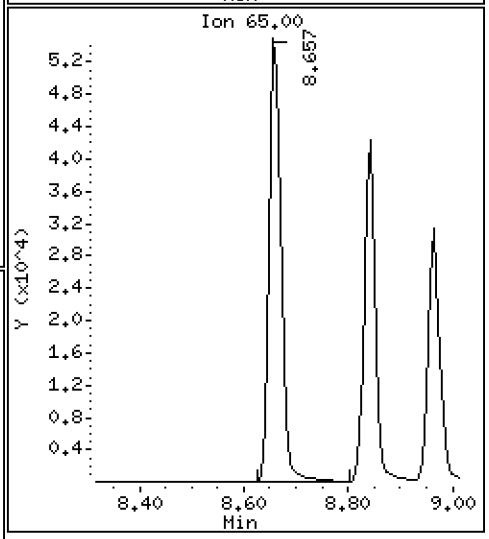
3 Phenol

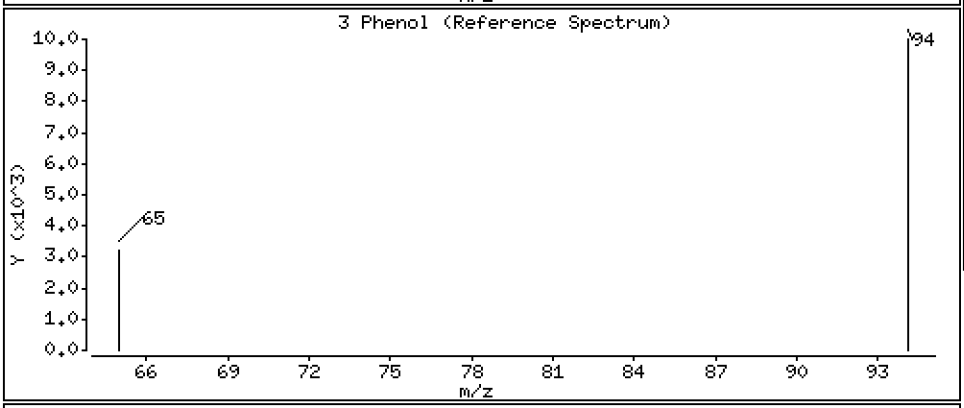
Concentration: 4.373 ug/L

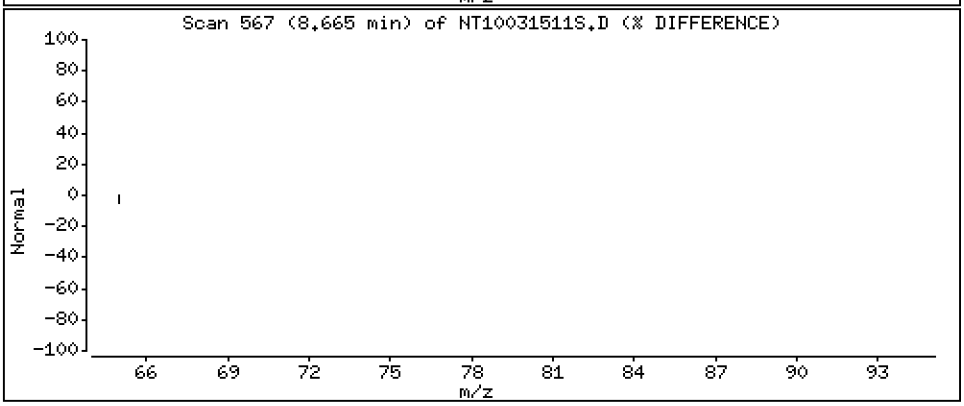












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

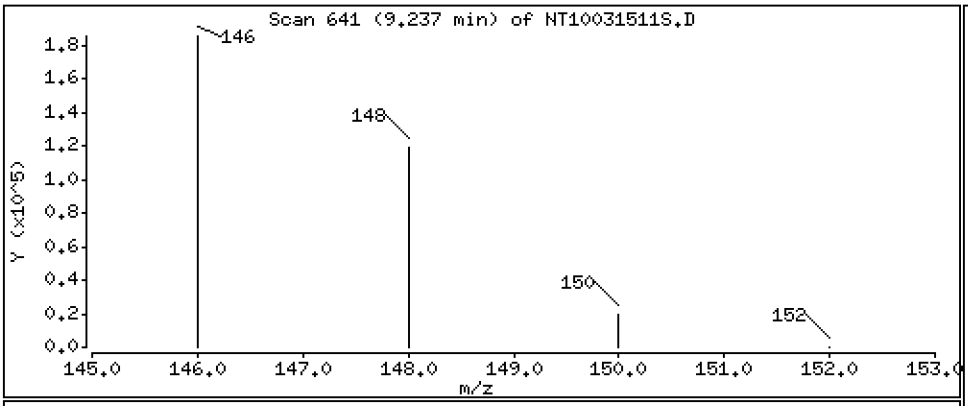
Operator: JGR

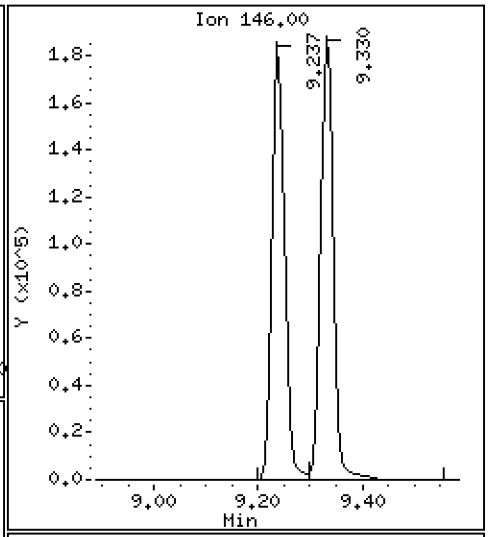
Column phase: ZB-5msi

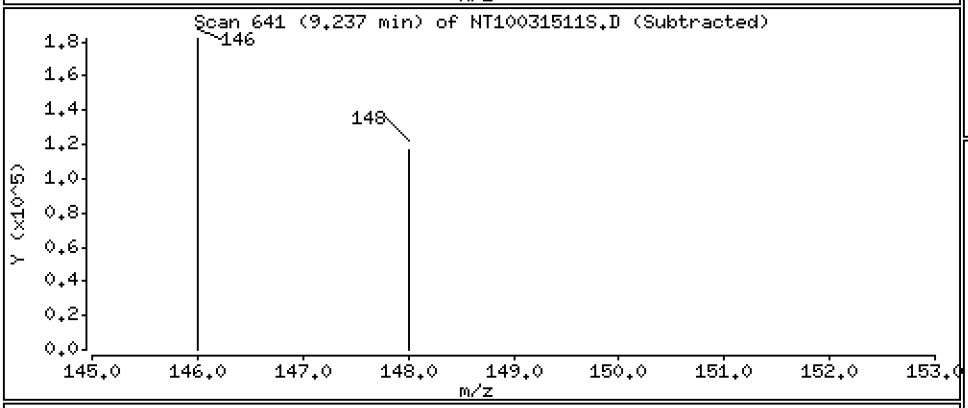
Column diameter: 0.25

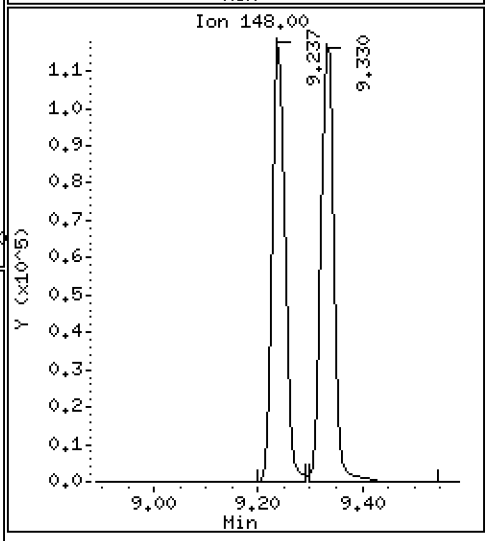
7 1,3-Dichlorobenzene

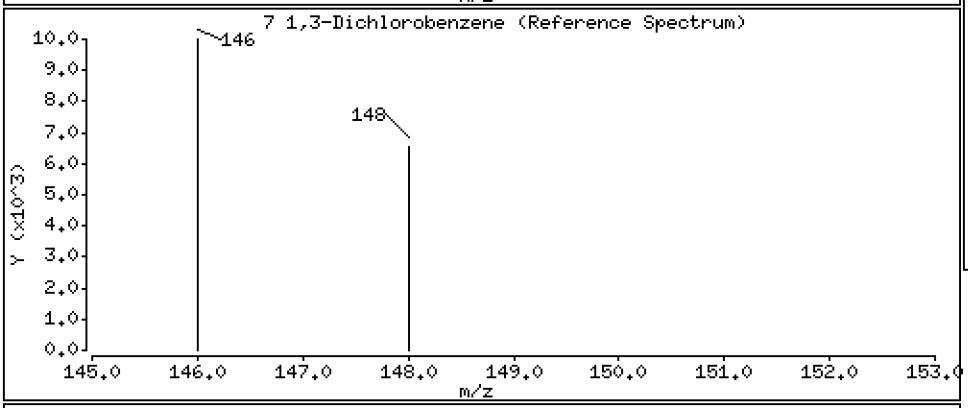
Concentration: 4.643 ug/L

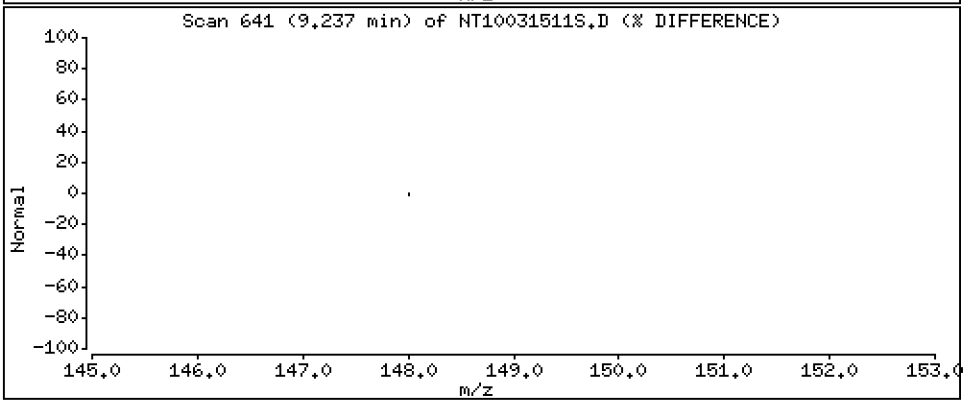












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

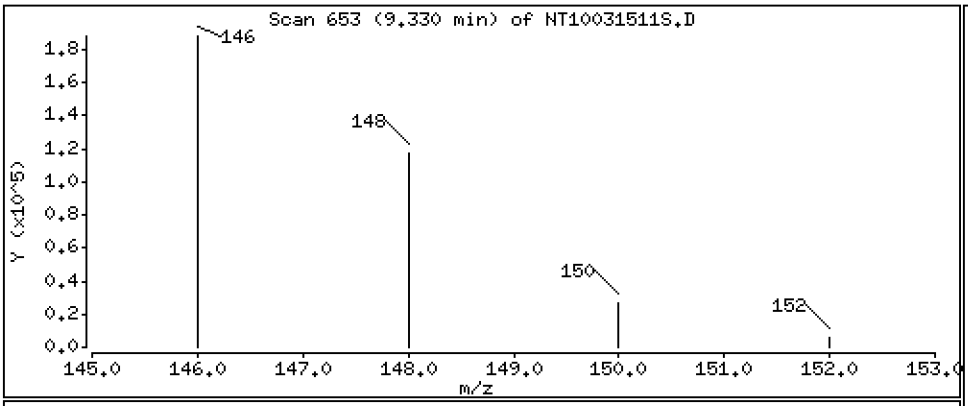
Operator: JGR

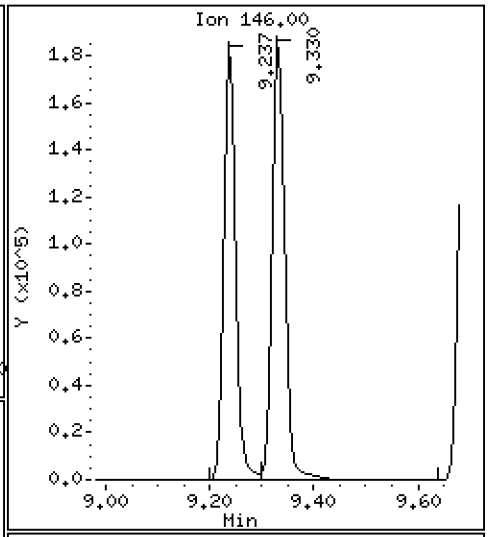
Column phase: ZB-5msi

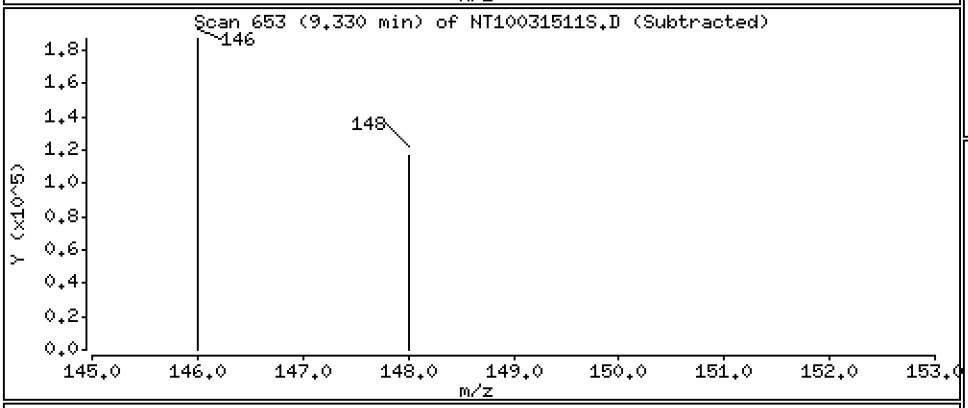
Column diameter: 0.25

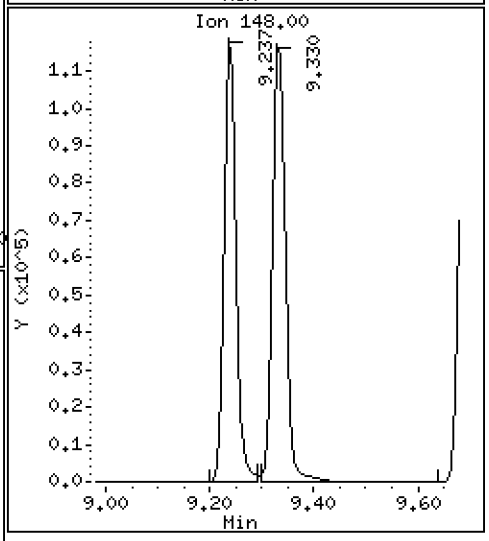
9 1,4-Dichlorobenzene

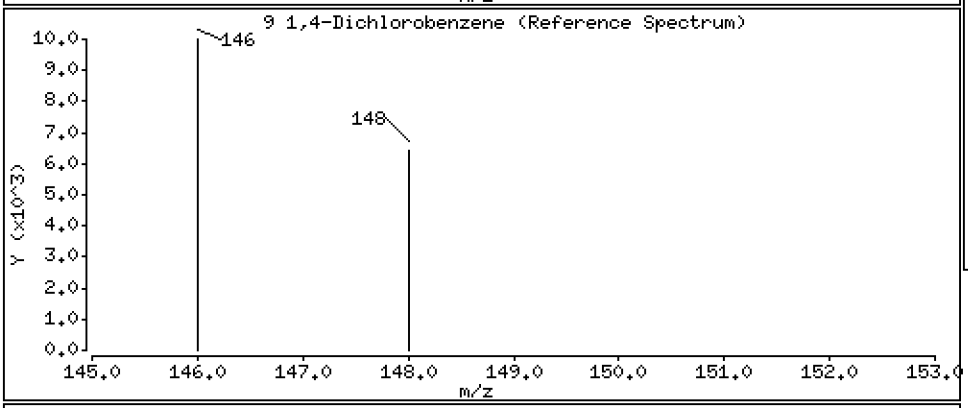
Concentration: 4.838 ug/L

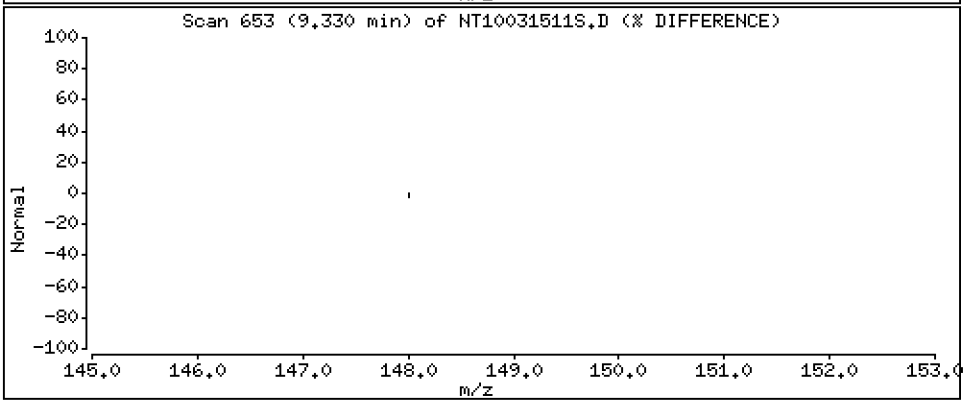












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

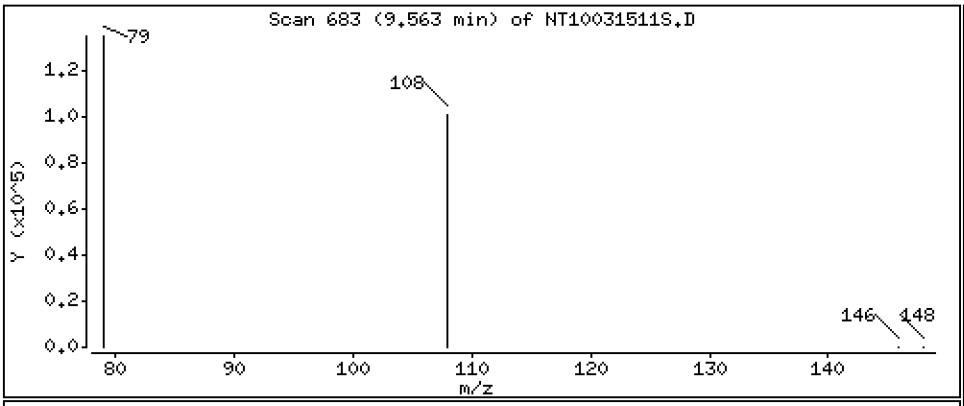
Operator: JGR

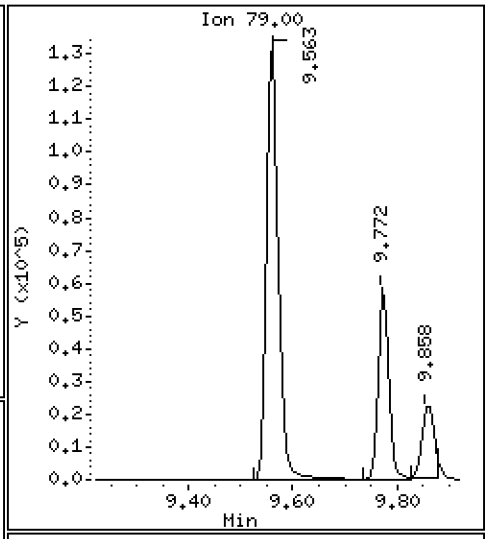
Column phase: ZB-5msi

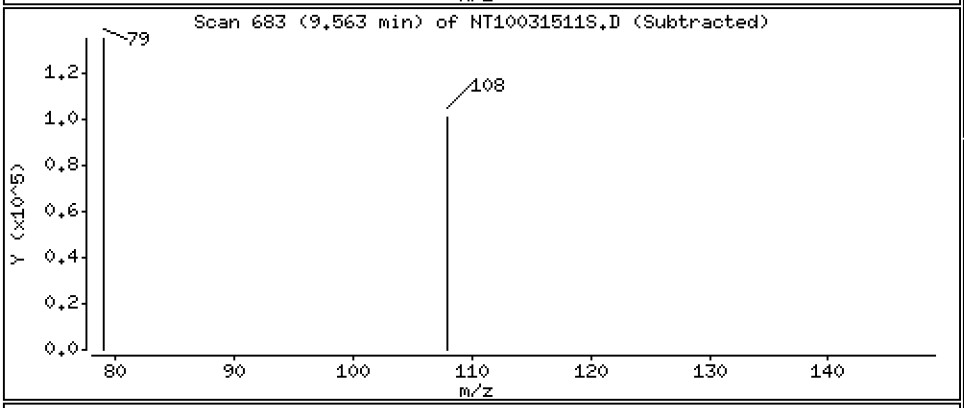
Column diameter: 0.25

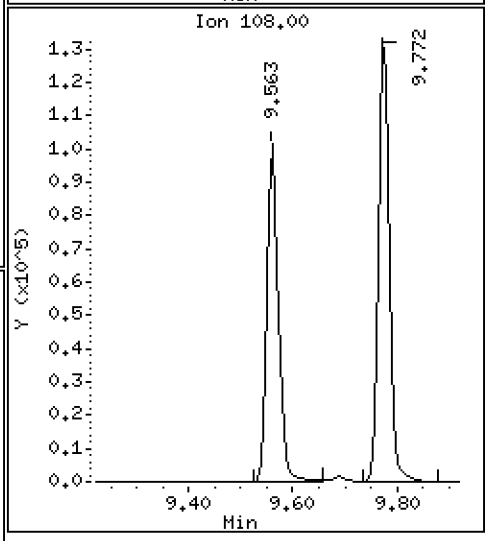
11 Benzyl alcohol

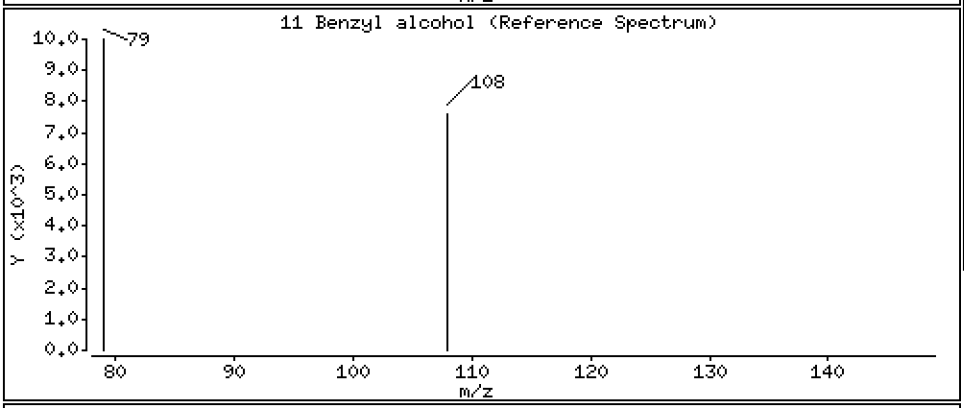
Concentration: 5.181 ug/L

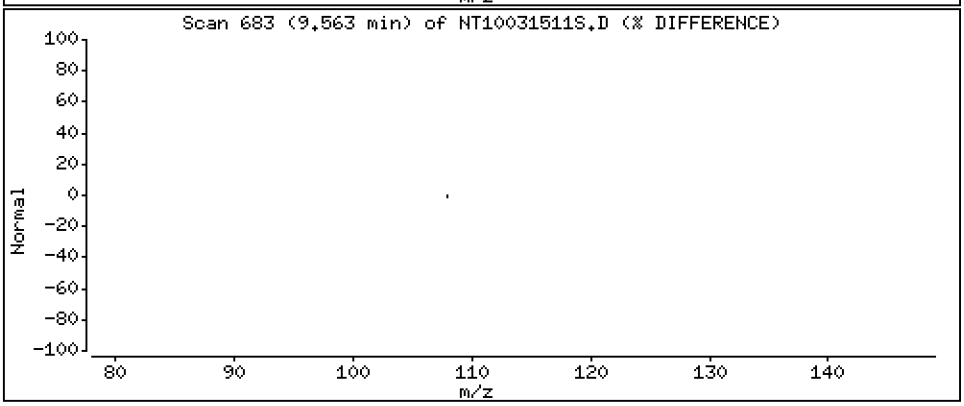












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

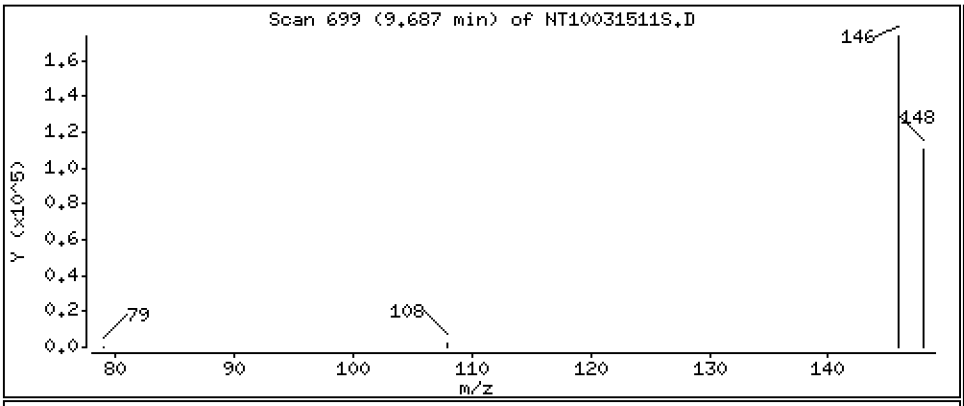
Operator: JGR

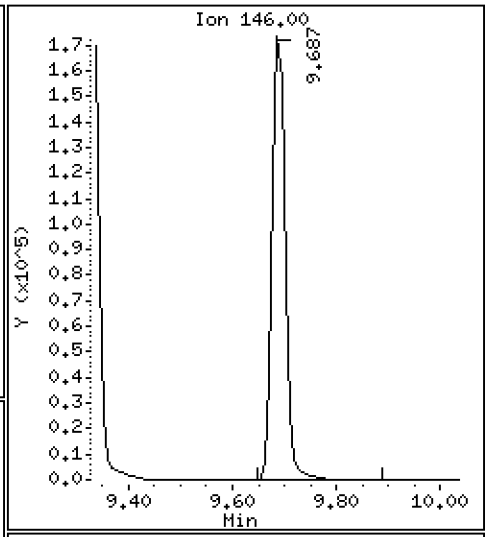
Column phase: ZB-5msi

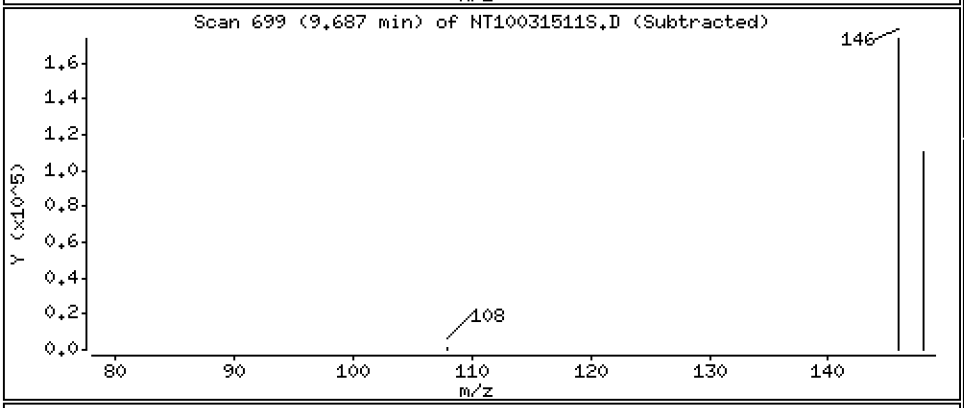
Column diameter: 0.25

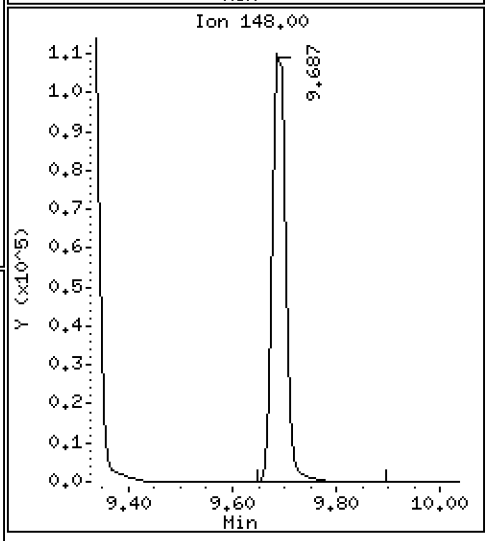
12 1,2-Dichlorobenzene

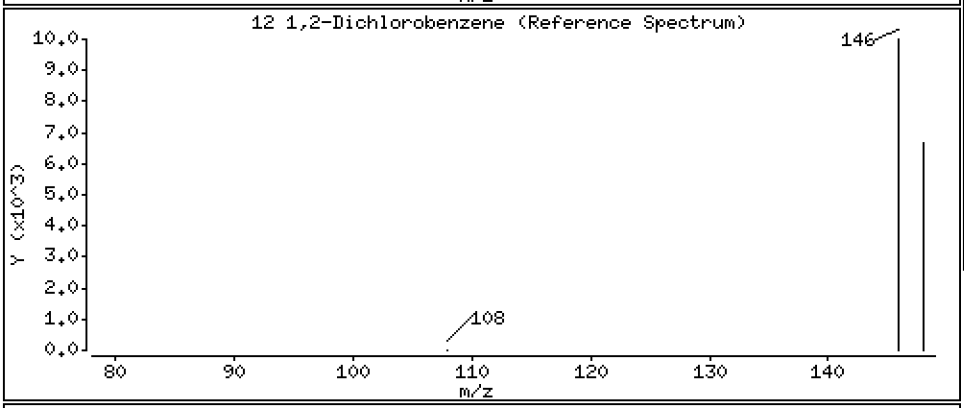
Concentration: 4.679 ug/L

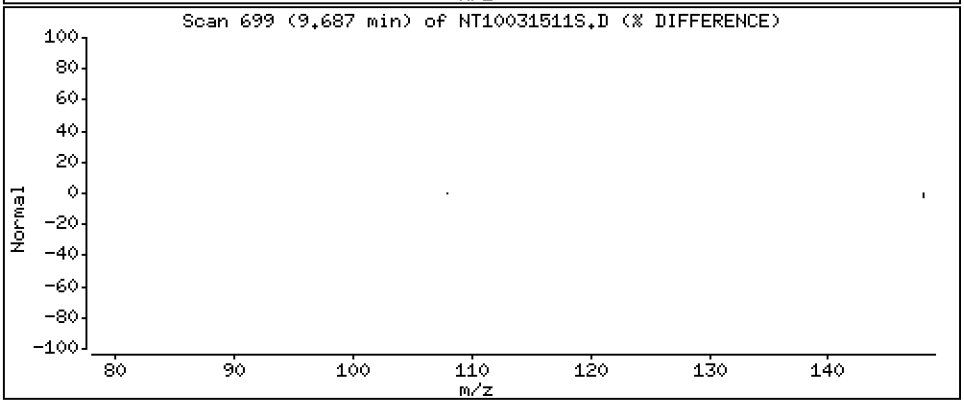












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

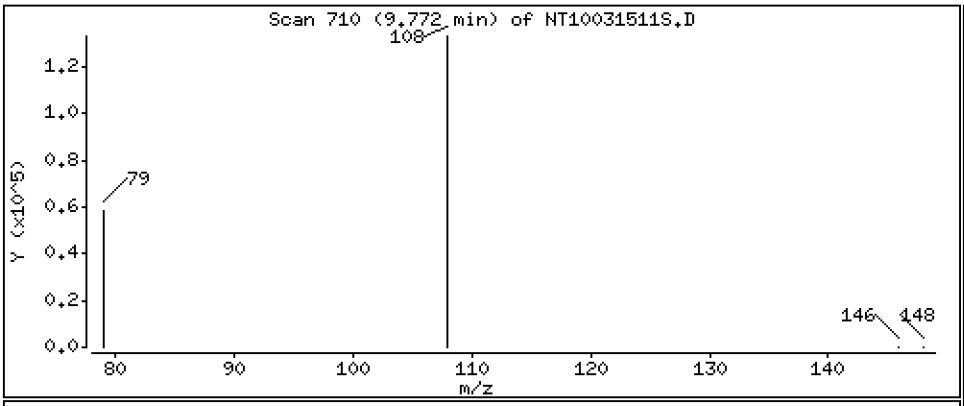
Operator: JGR

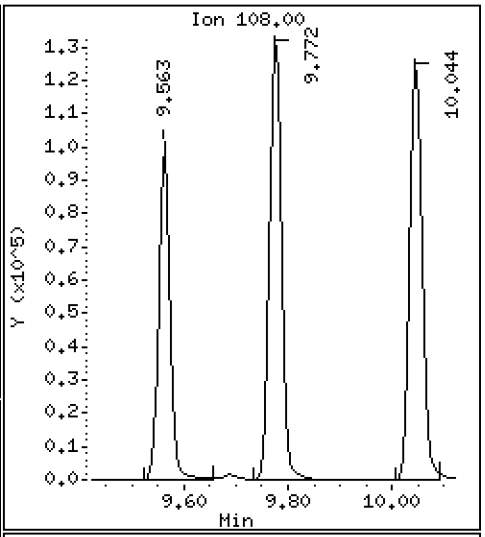
Column phase: ZB-5msi

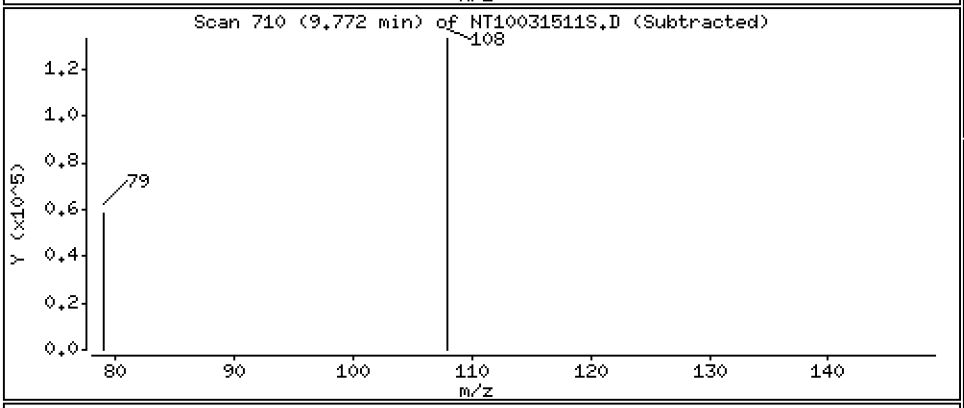
Column diameter: 0.25

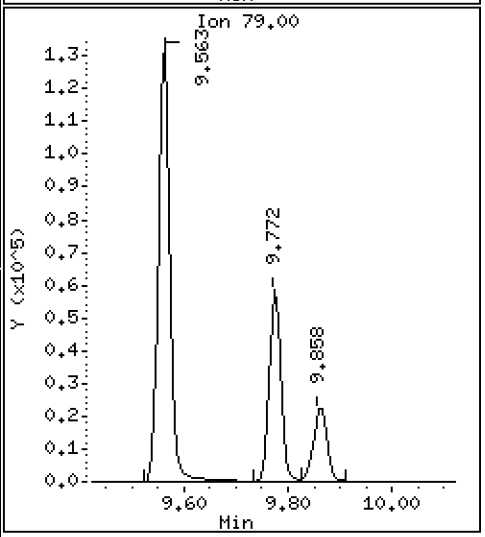
13 2-Methylphenol

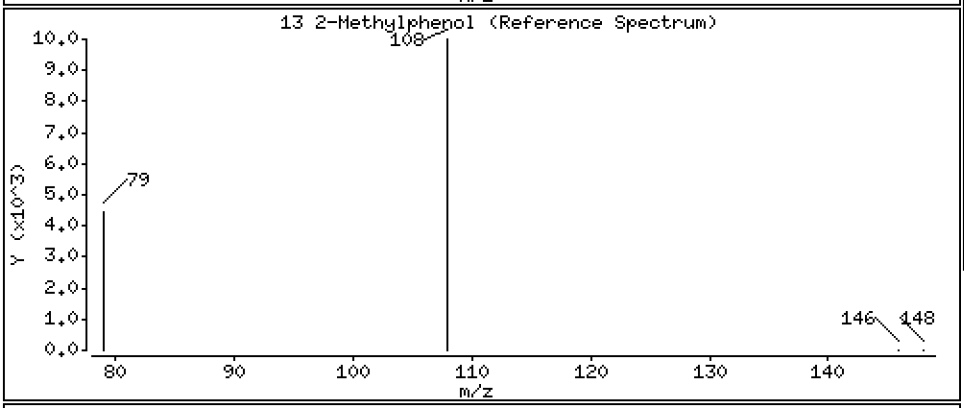
Concentration: 4.197 ug/L

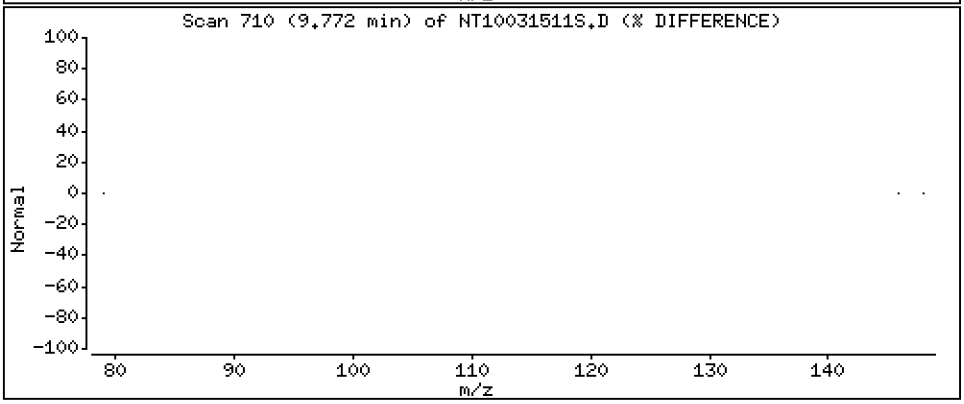












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

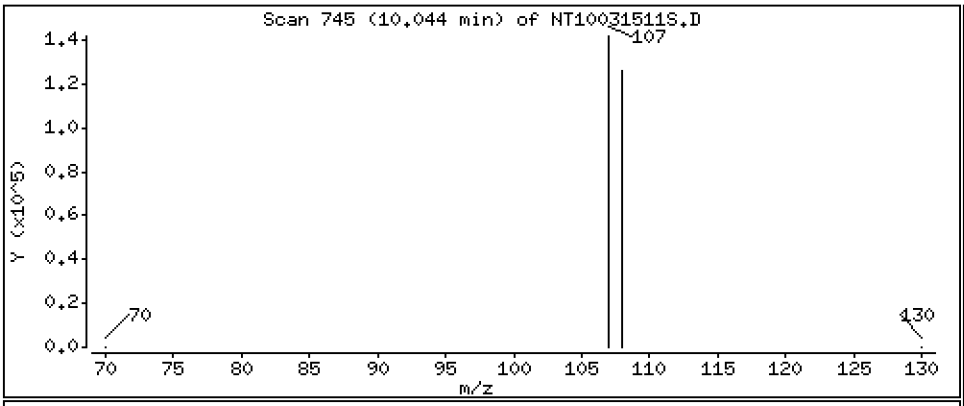
Operator: JGR

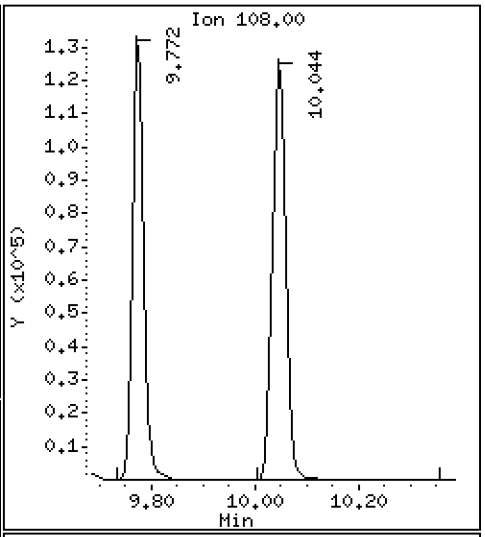
Column phase: ZB-5msi

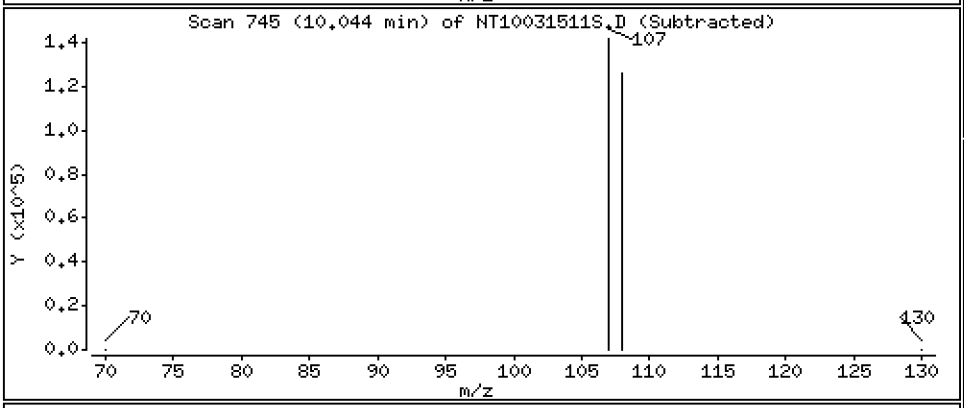
Column diameter: 0.25

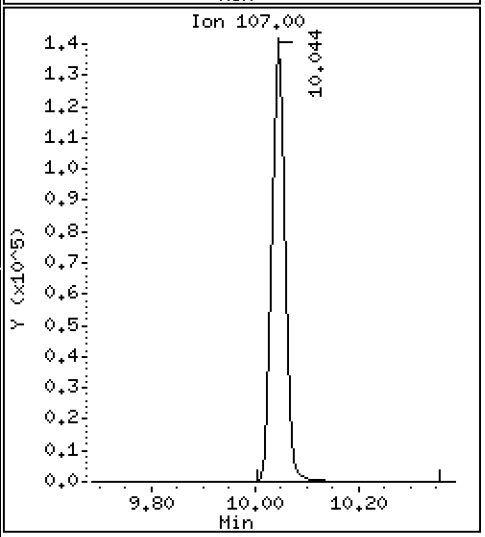
15 4-Methylphenol

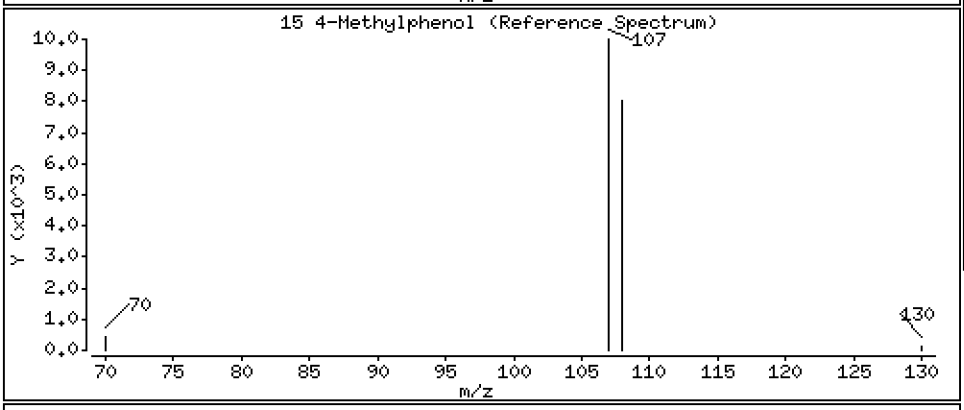
Concentration: 4.463 ug/L

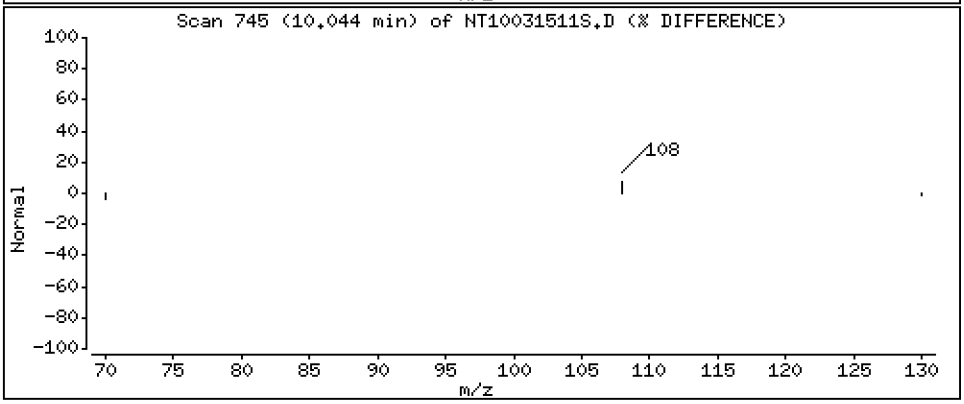












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

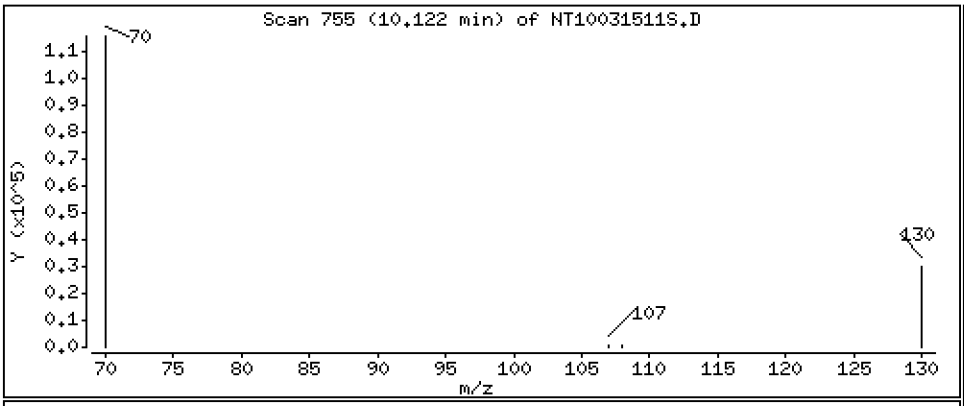
Operator: JGR

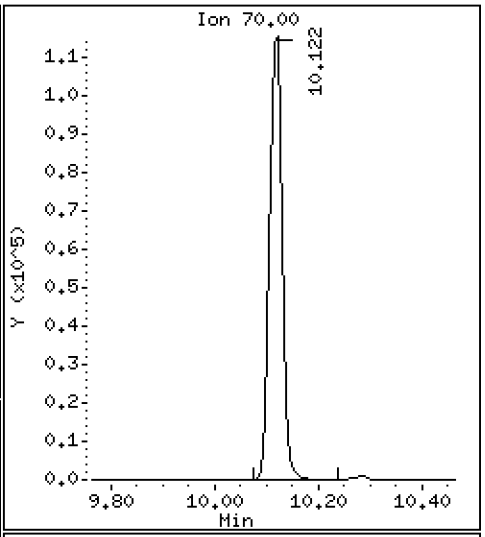
Column phase: ZB-5msi

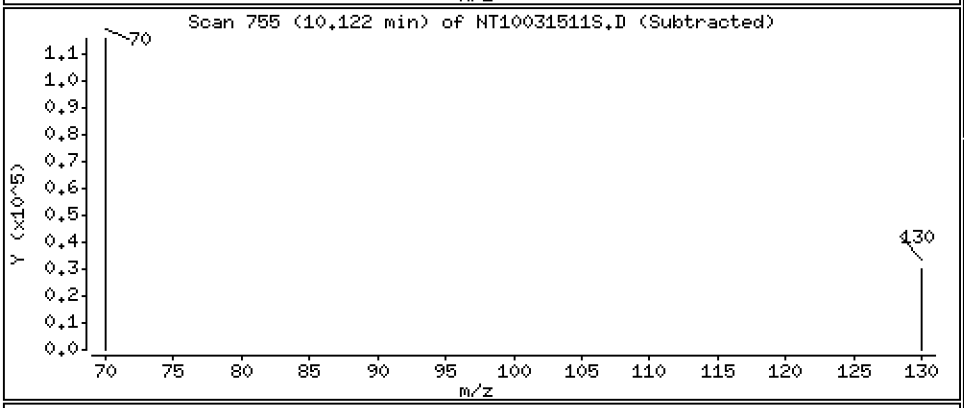
Column diameter: 0.25

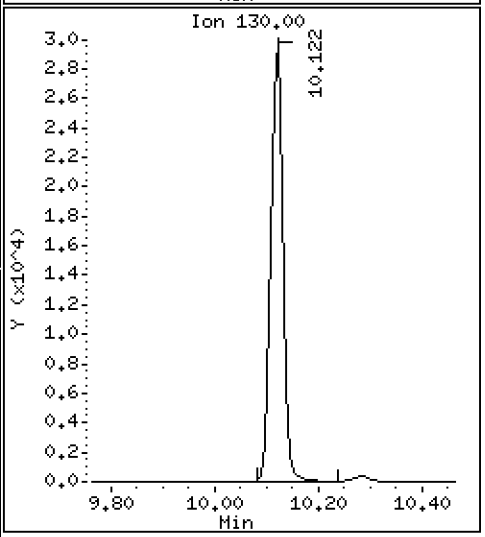
16 N-Nitroso-di-n-propylamine

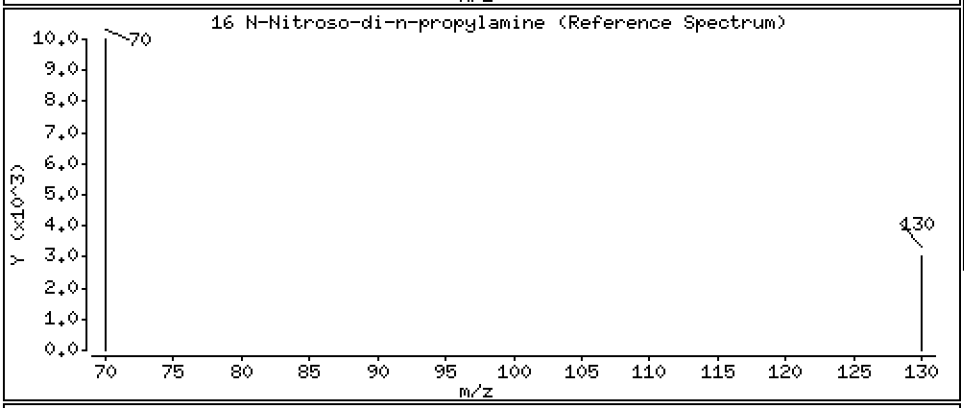
Concentration: 5.282 ug/L

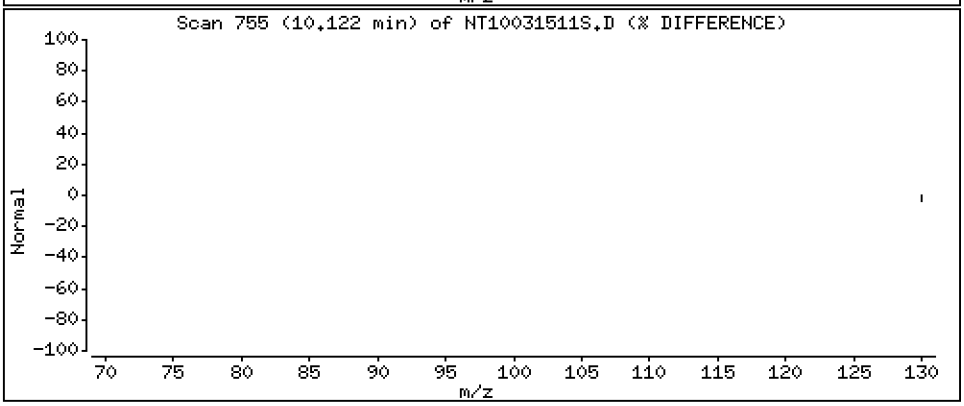












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

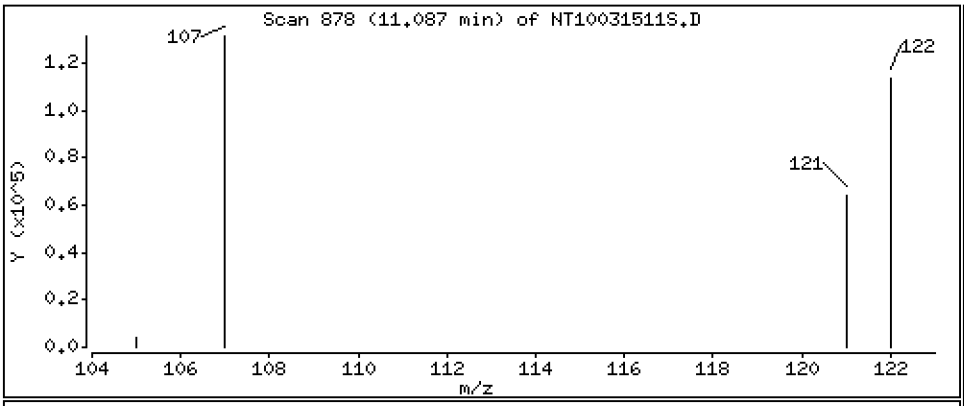
Operator: JGR

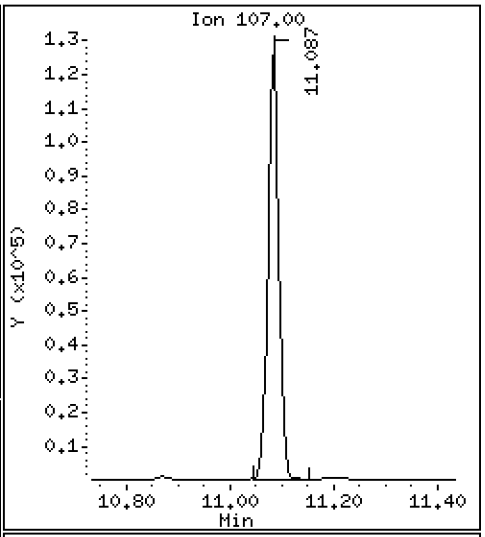
Column phase: ZB-5msi

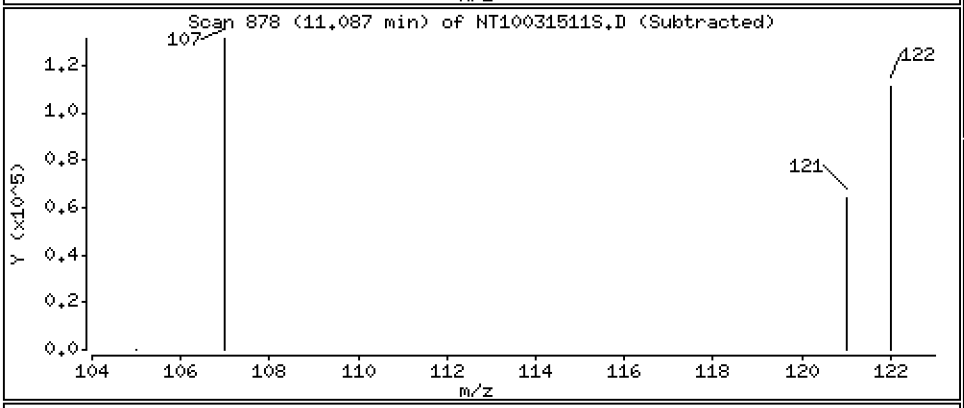
Column diameter: 0.25

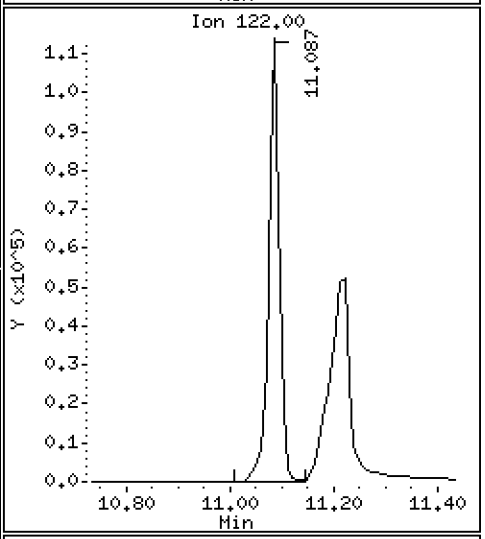
22 2,4-Dimethylphenol

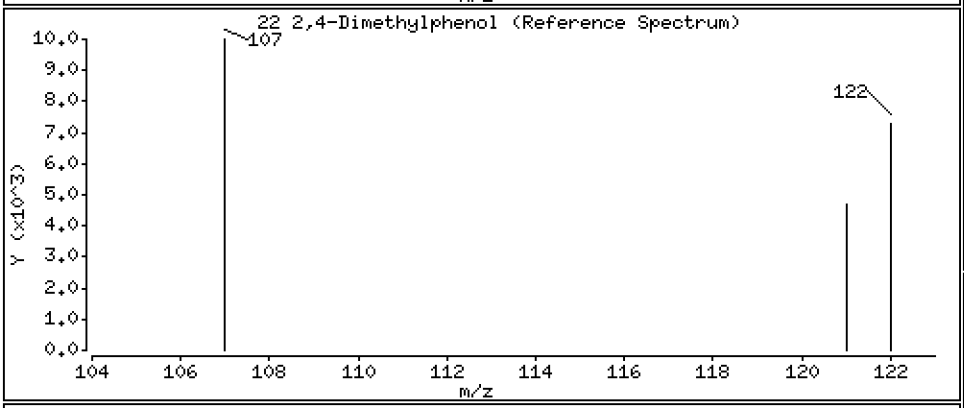
Concentration: 3.660 ug/L

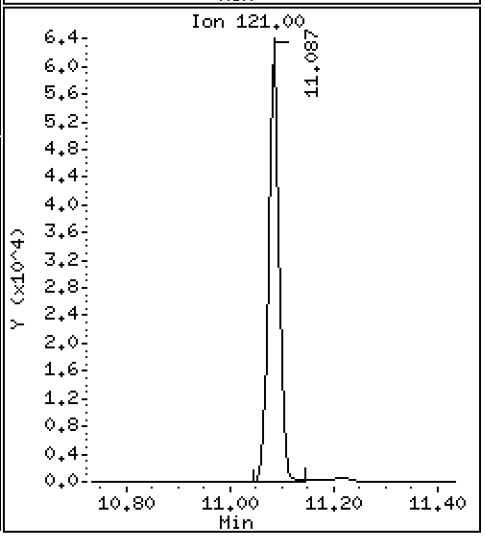


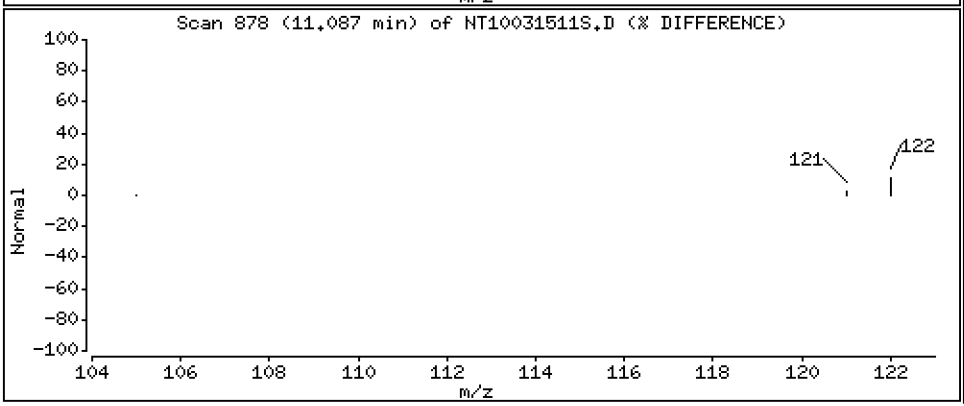












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

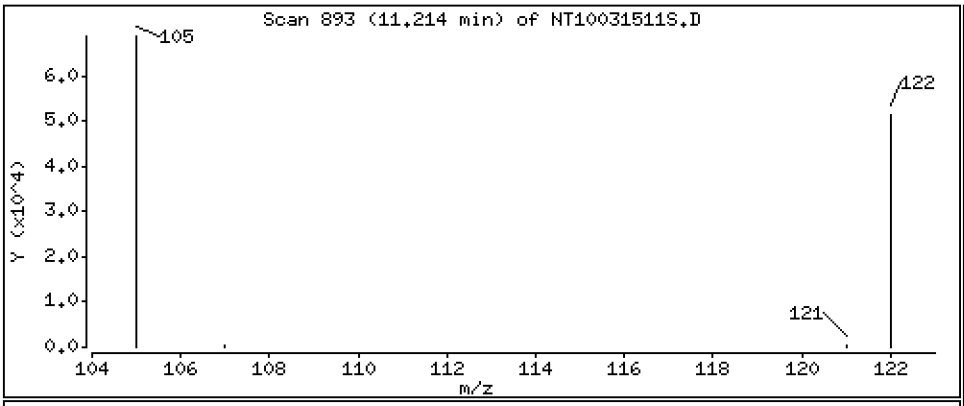
Operator: JGR

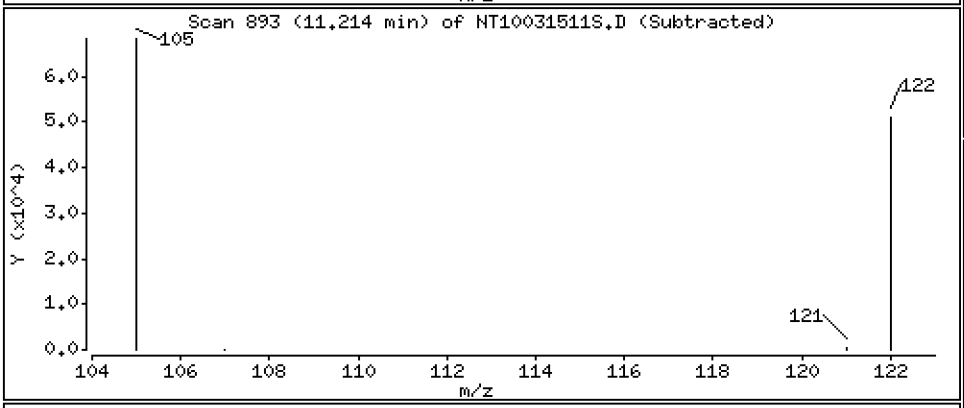
Column phase: ZB-5msi

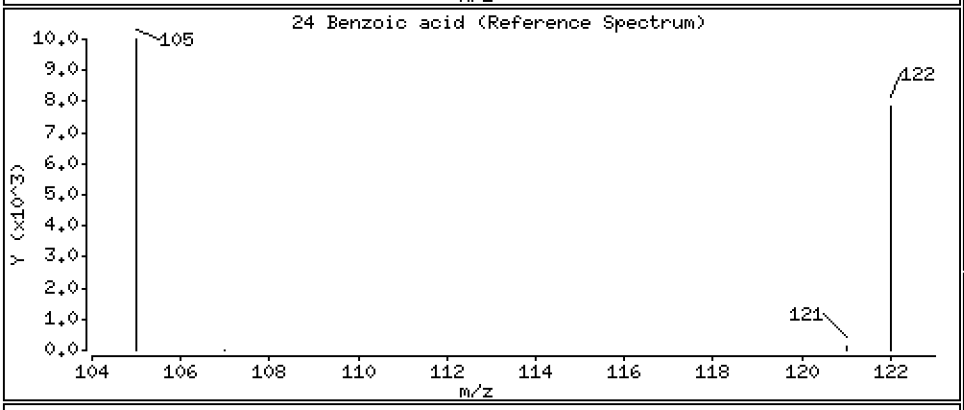
Column diameter: 0.25

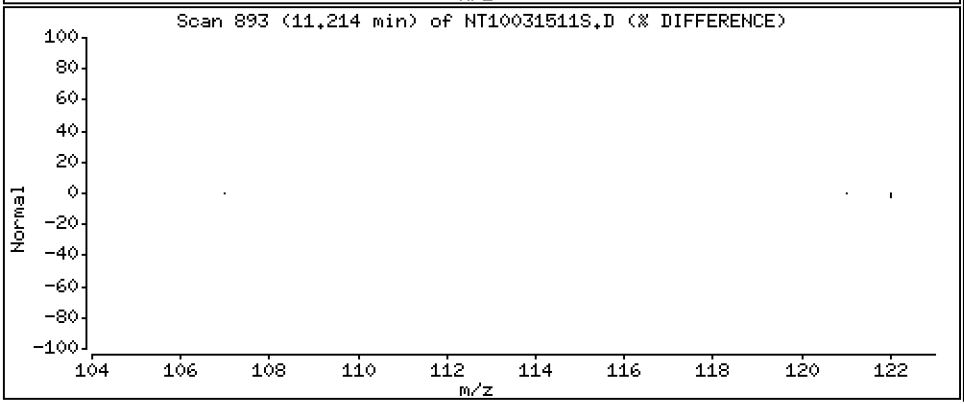
24 Benzoic acid

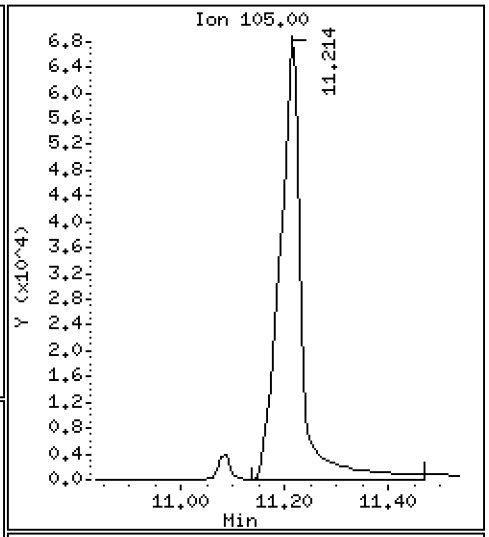
Concentration: 6.746 ug/L

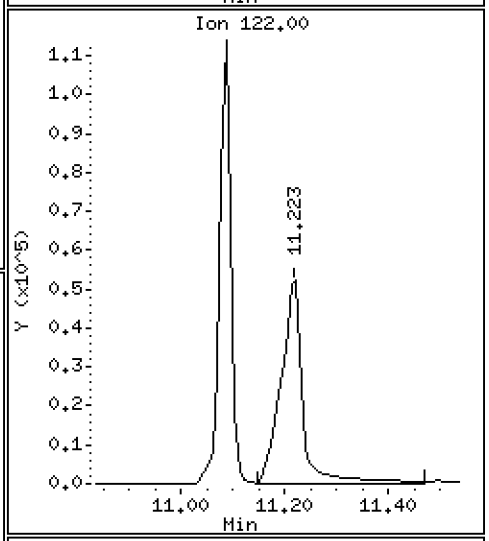


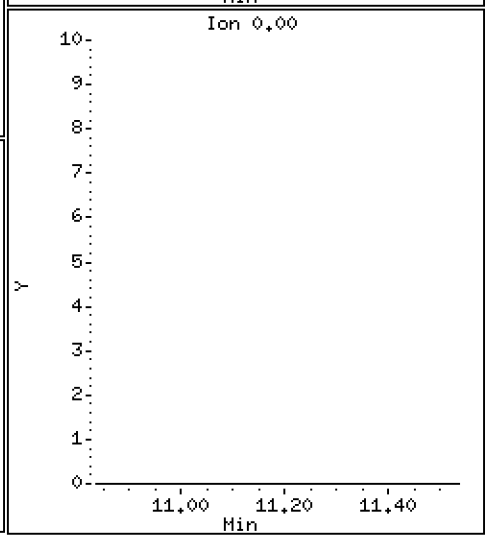












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

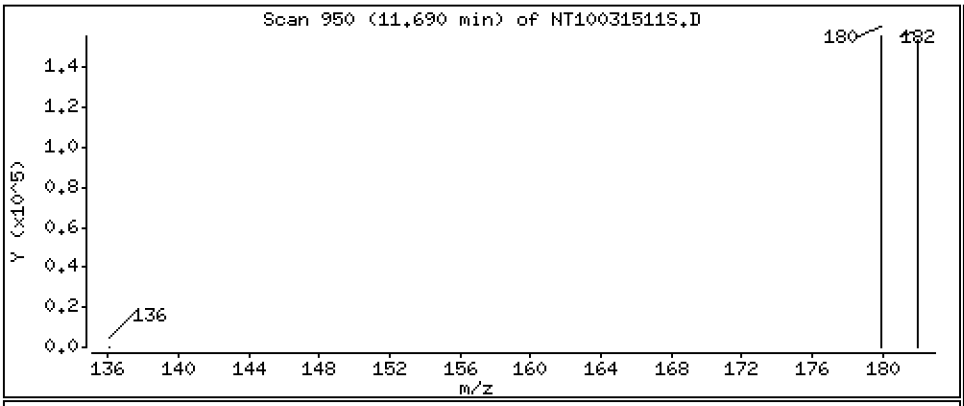
Operator: JGR

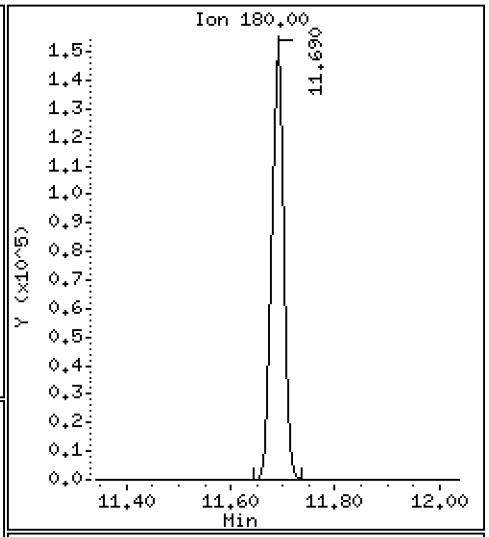
Column phase: ZB-5msi

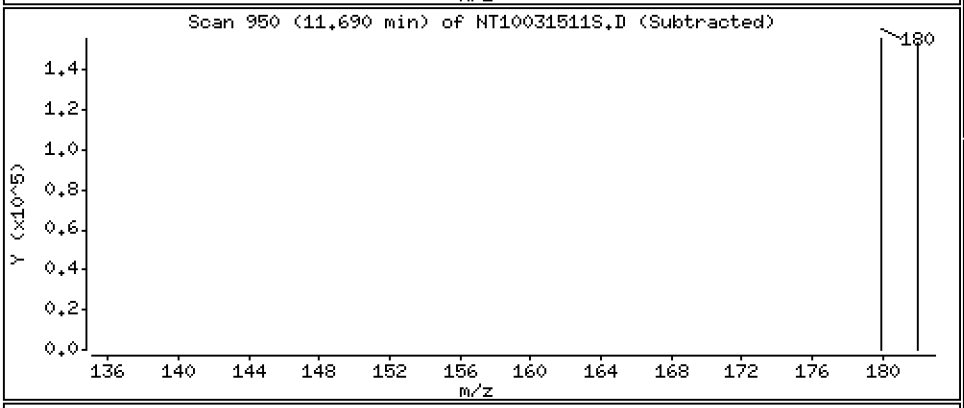
Column diameter: 0.25

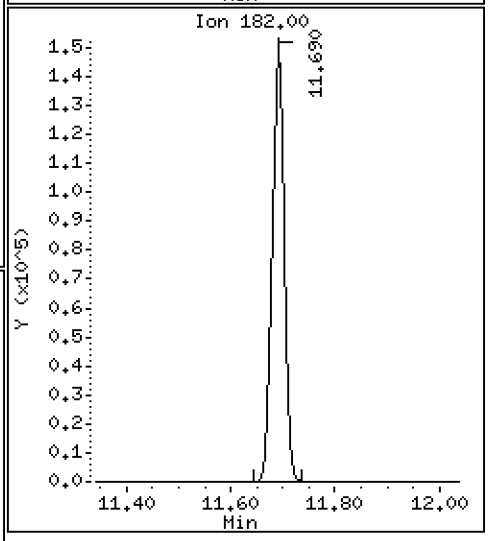
26 1,2,4-Trichlorobenzene

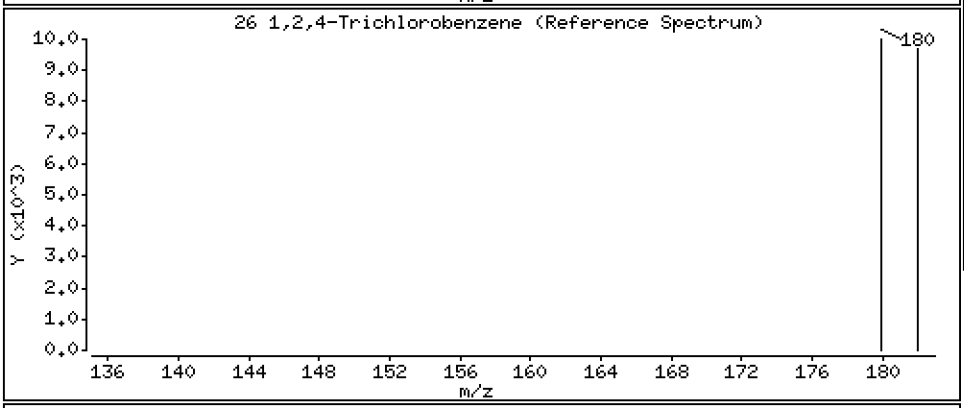
Concentration: 4.445 ug/L

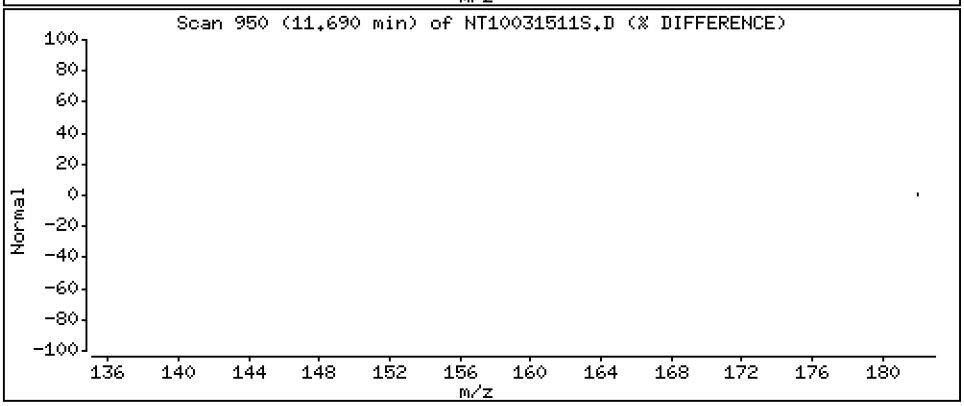












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

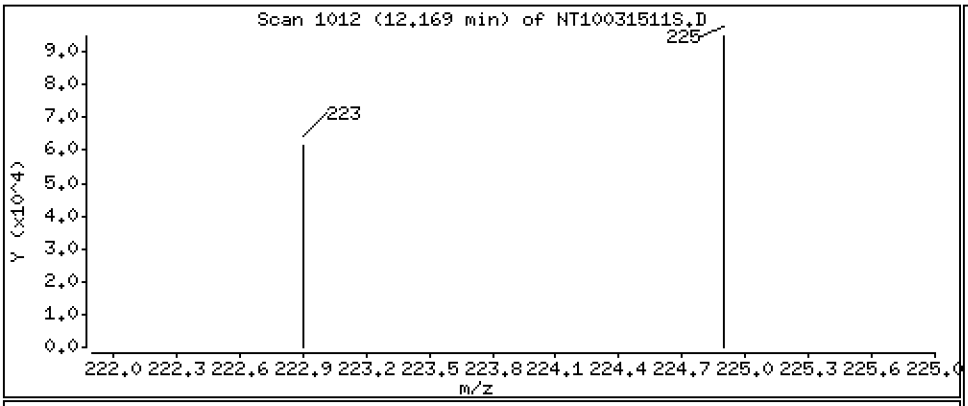
Operator: JGR

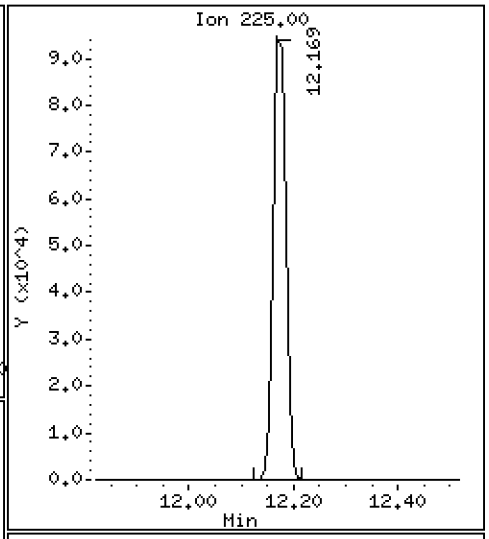
Column phase: ZB-5msi

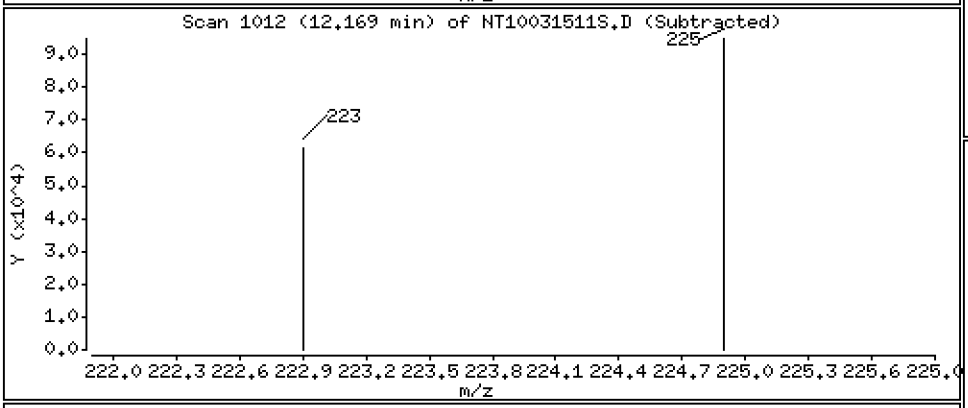
Column diameter: 0.25

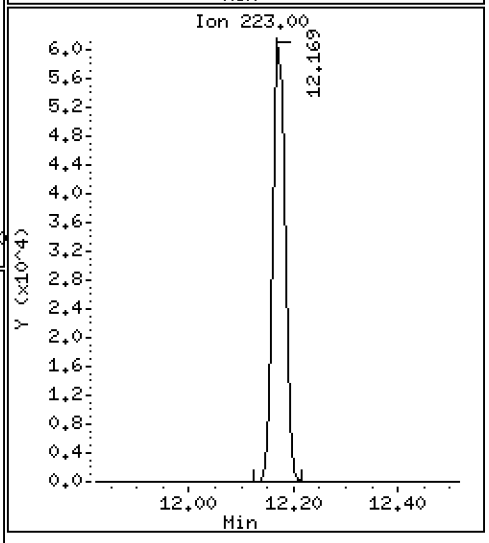
30 Hexachlorobutadiene

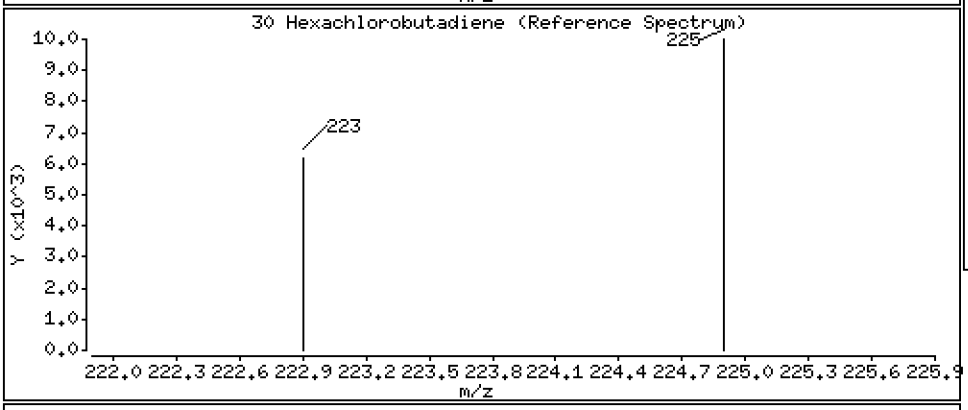
Concentration: 4.653 ug/L

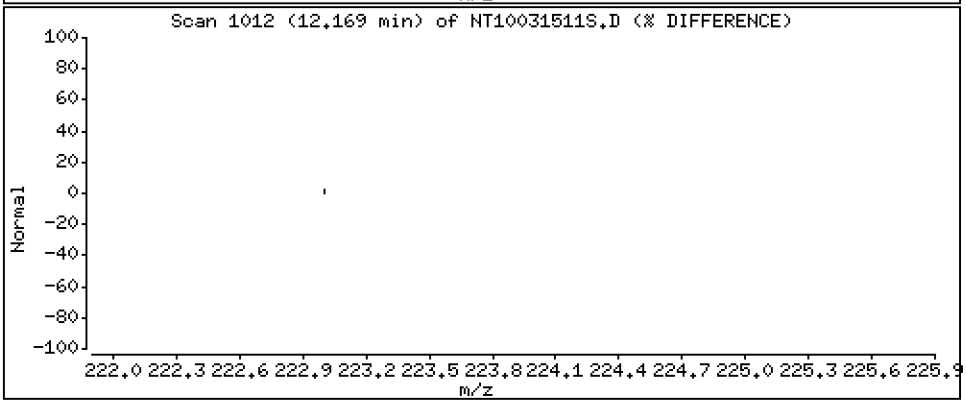












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

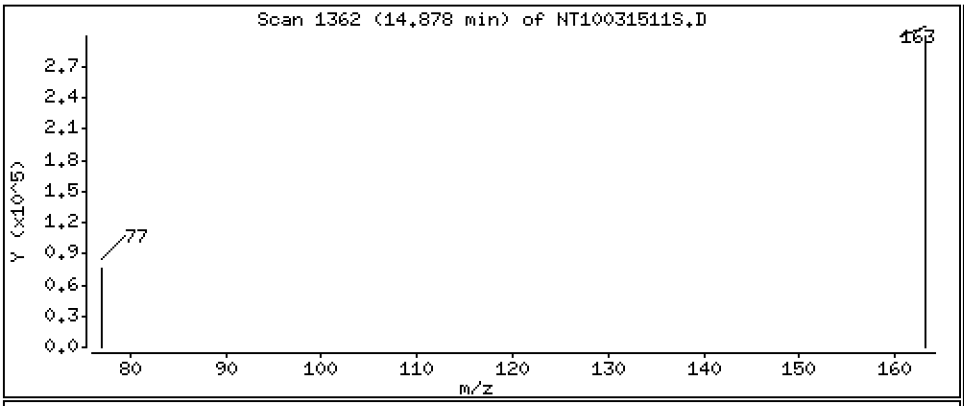
Operator: JGR

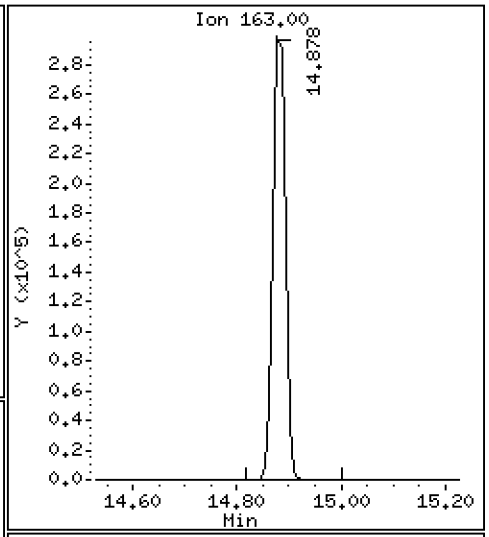
Column phase: ZB-5msi

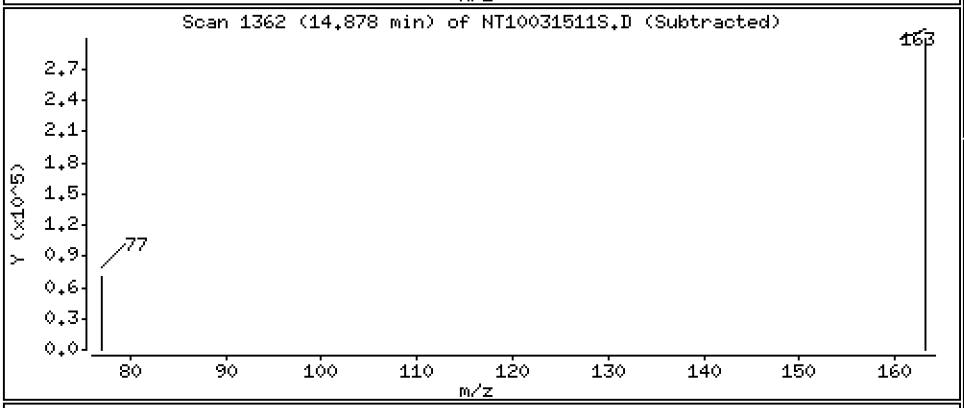
Column diameter: 0.25

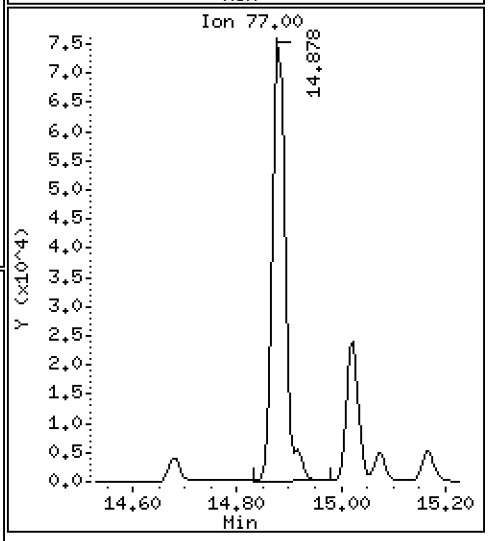
39 Dimethylphthalate

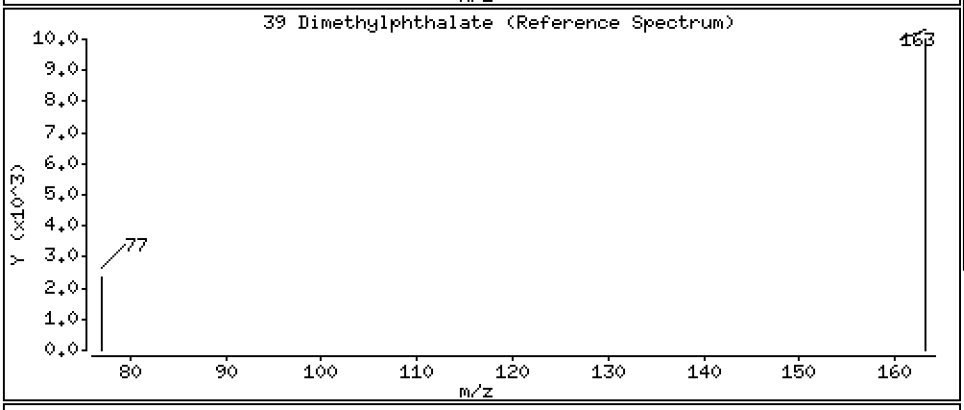
Concentration: 4.948 ug/L

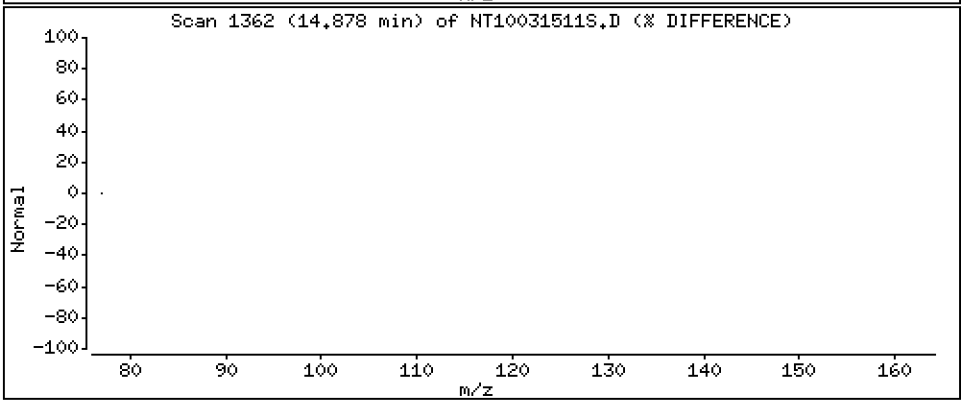












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

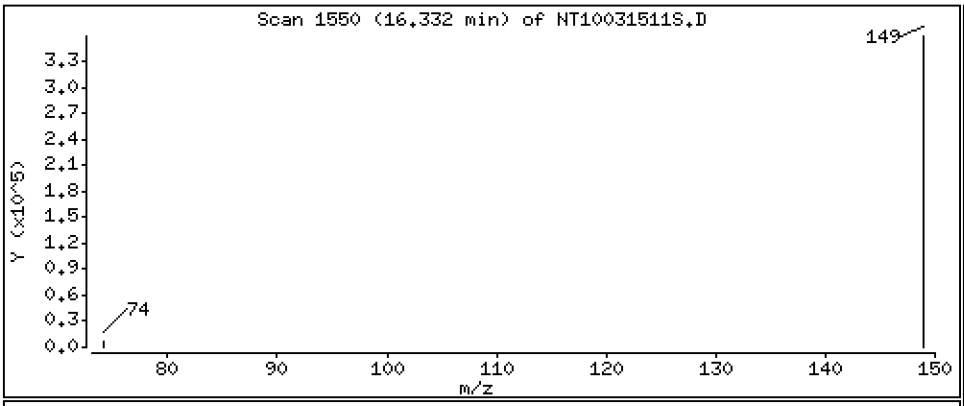
Operator: JGR

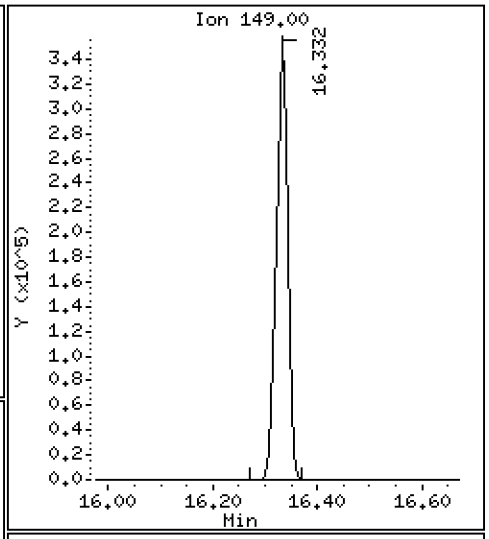
Column phase: ZB-5msi

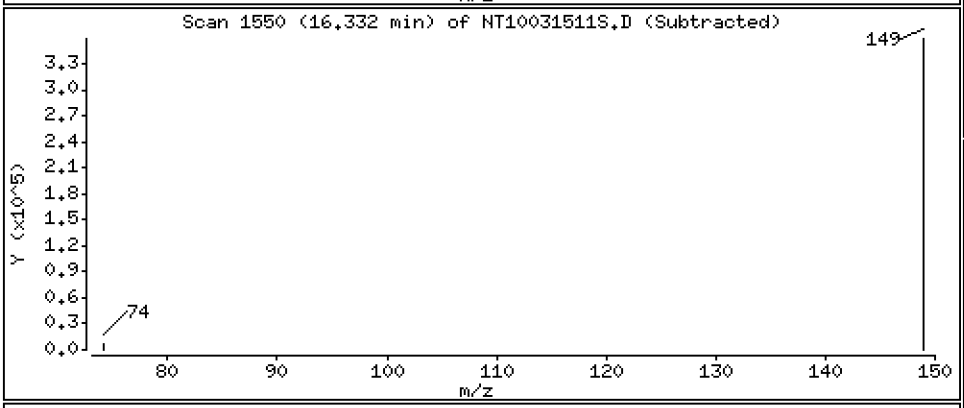
Column diameter: 0.25

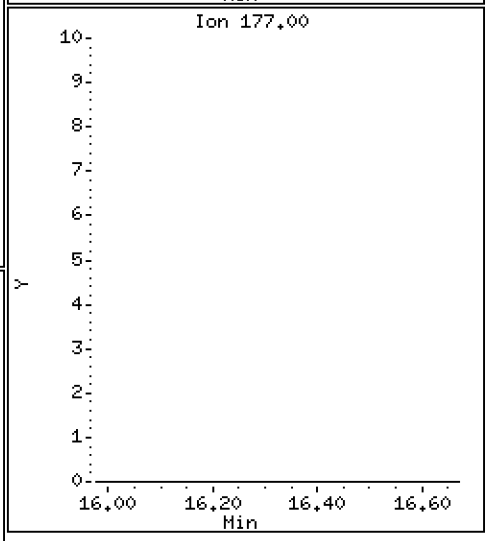
50 Diethylphthalate

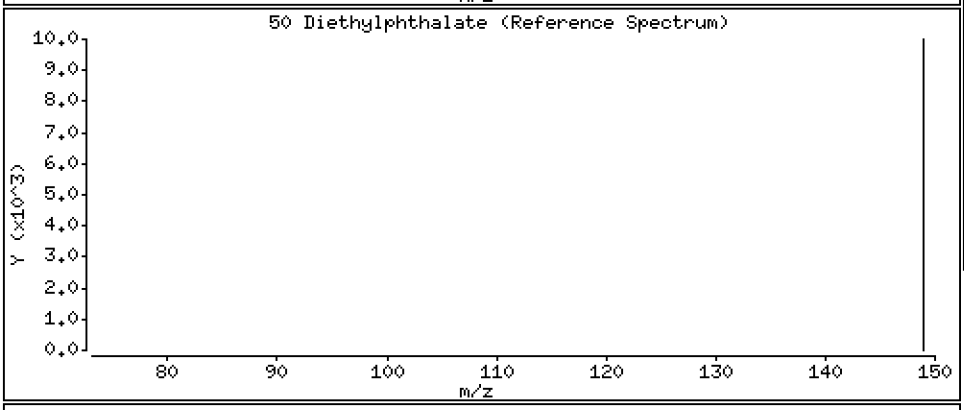
Concentration: 5.364 ug/L

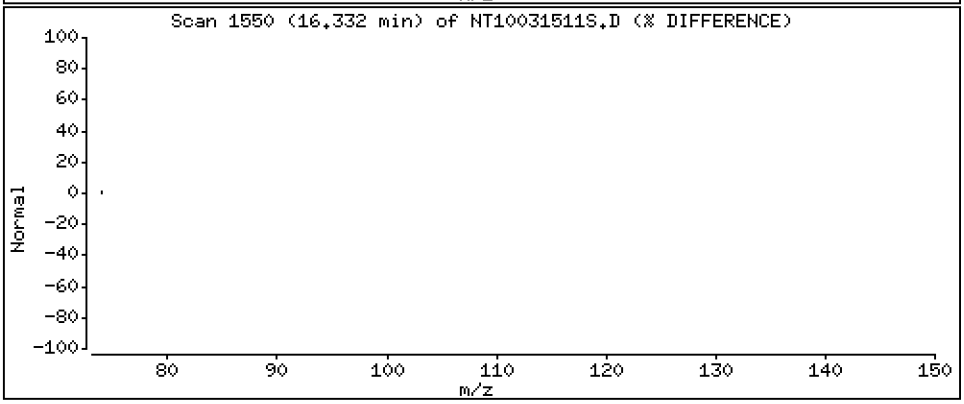












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

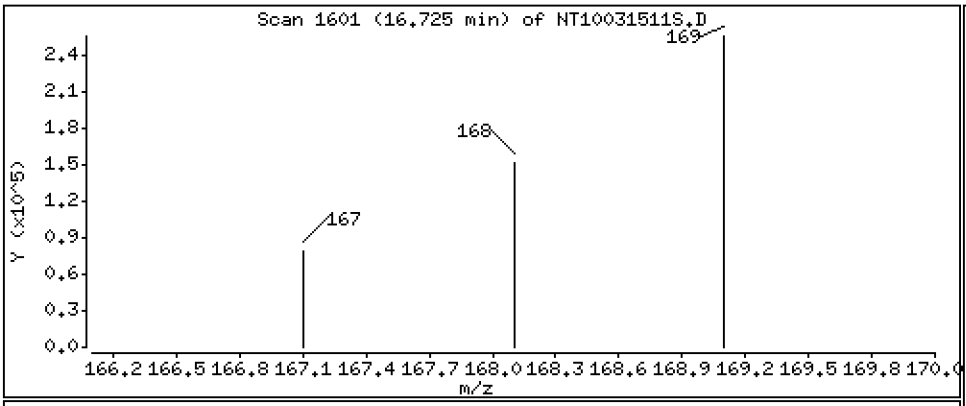
Operator: JGR

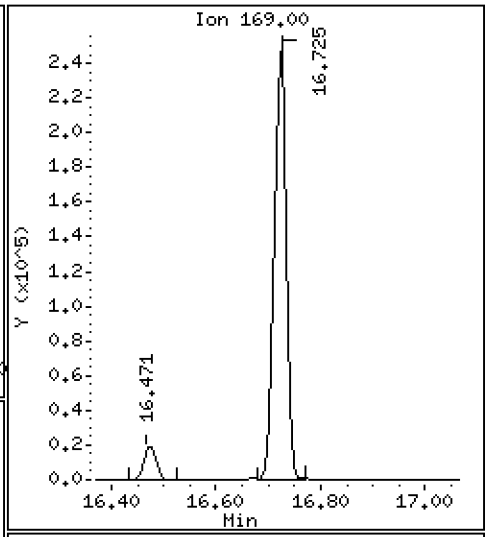
Column phase: ZB-5msi

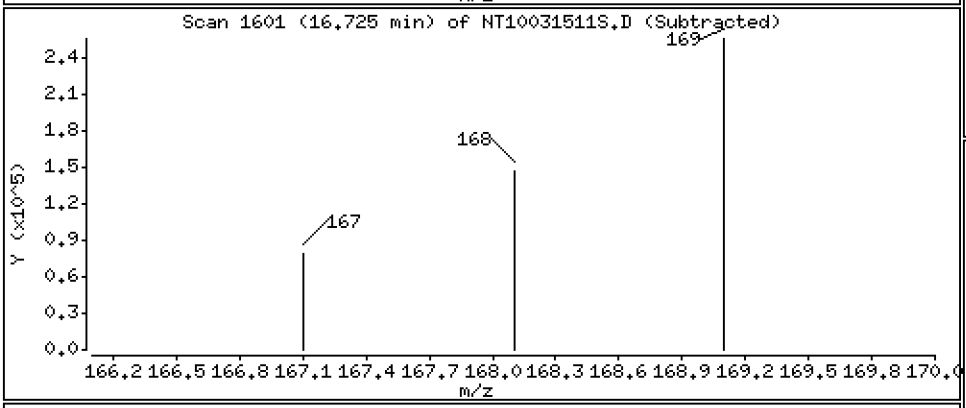
Column diameter: 0.25

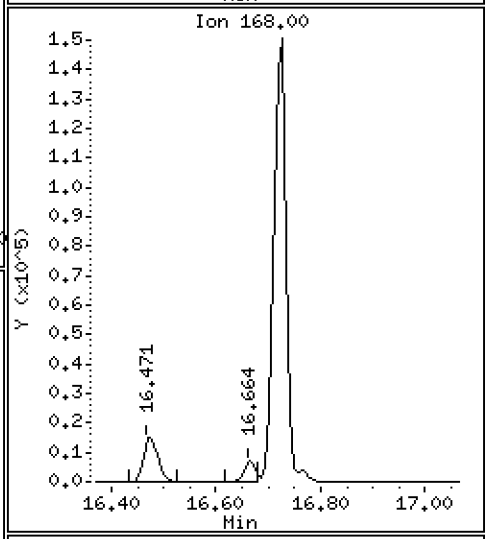
54 N-Nitrosodiphenylamine

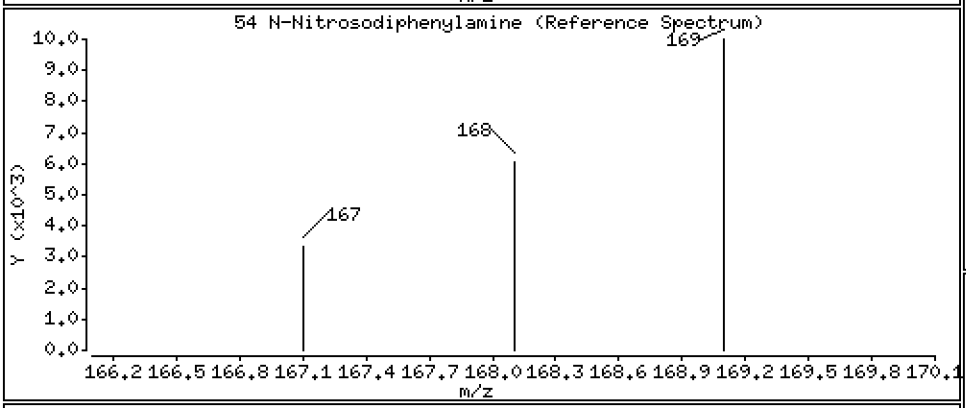
Concentration: 5.080 ug/L

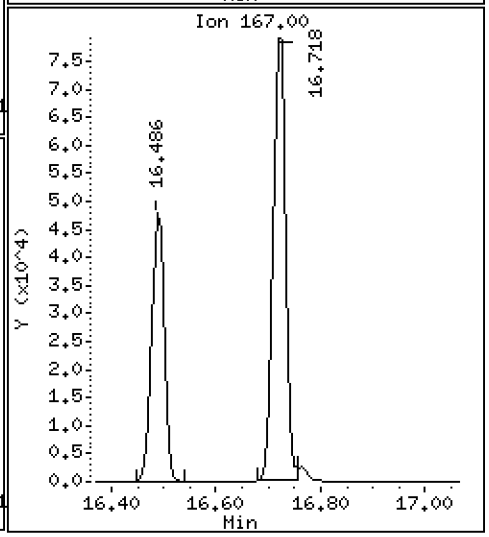


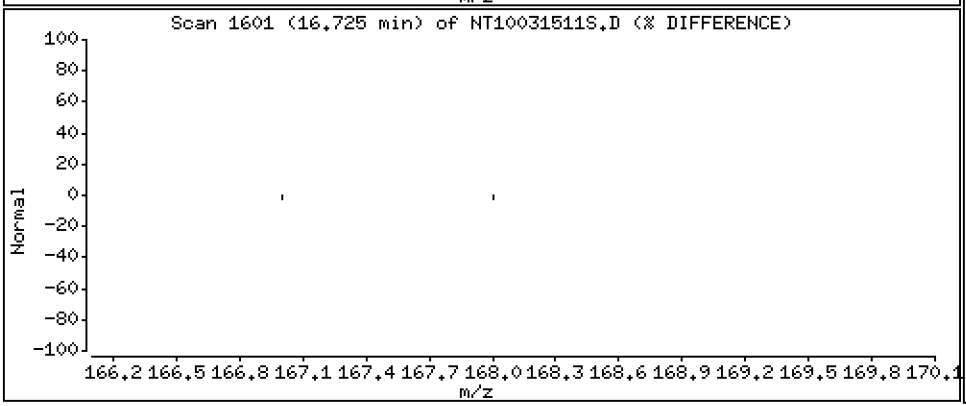












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

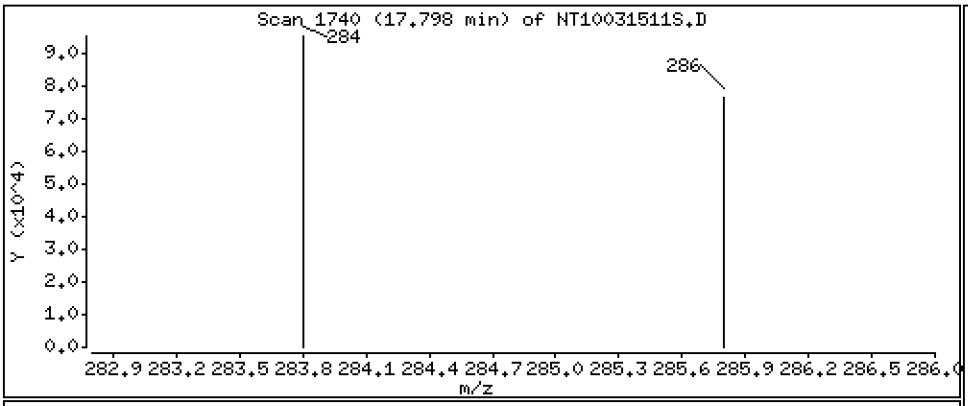
Operator: JGR

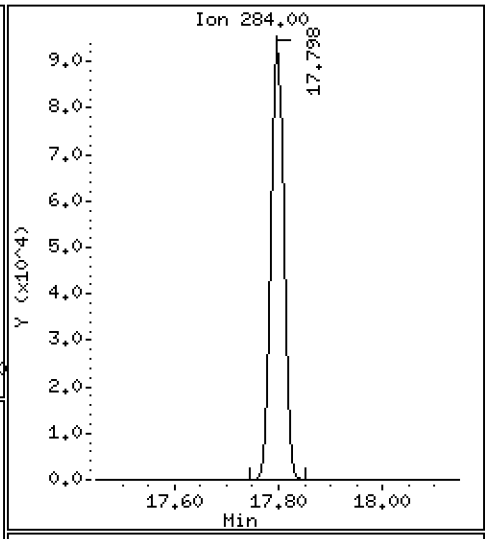
Column phase: ZB-5msi

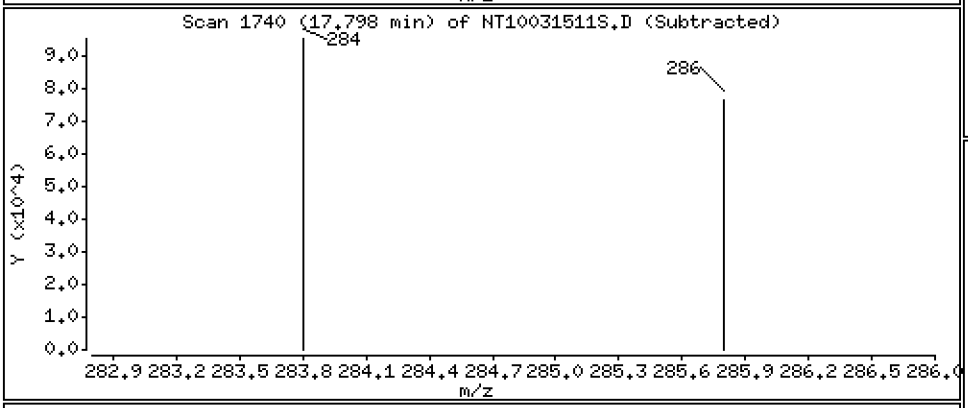
Column diameter: 0.25

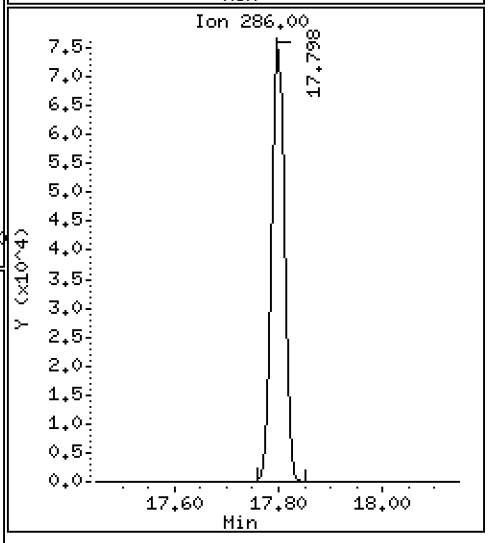
57 Hexachlorobenzene

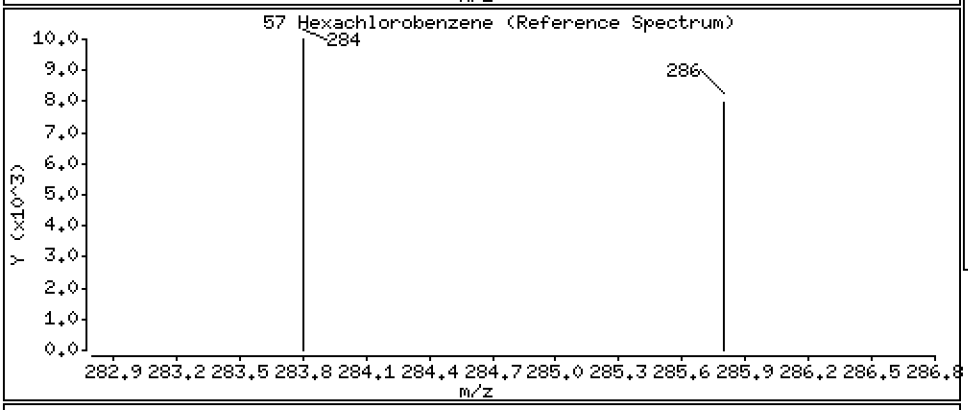
Concentration: 4.614 ug/L

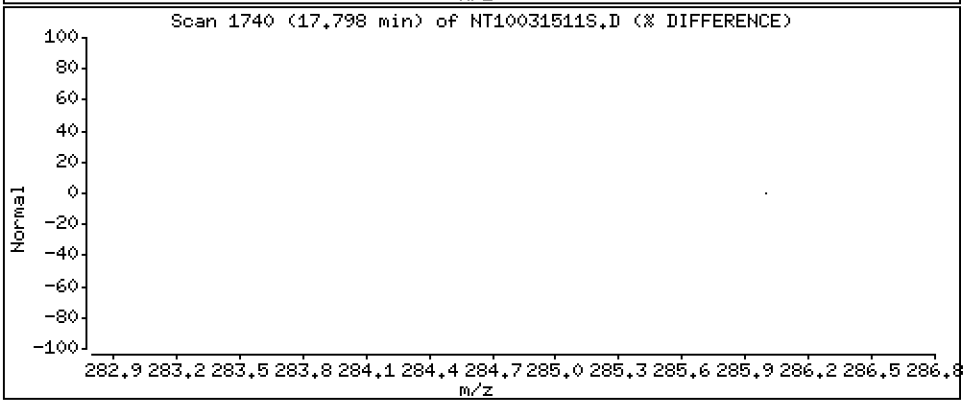












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

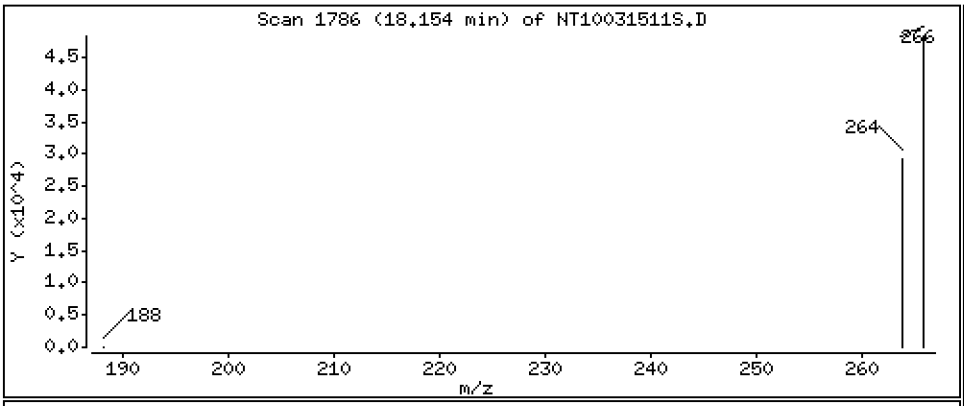
Operator: JGR

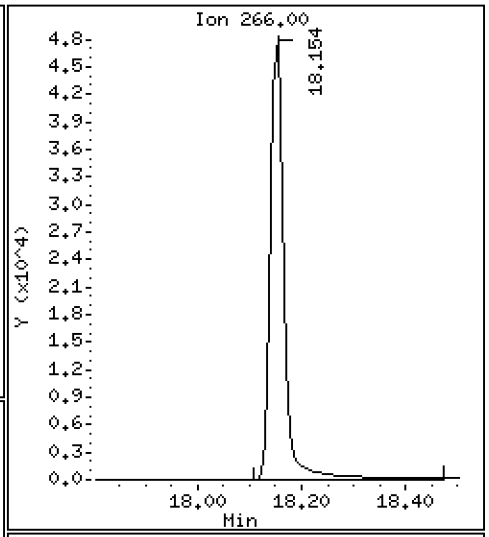
Column phase: ZB-5msi

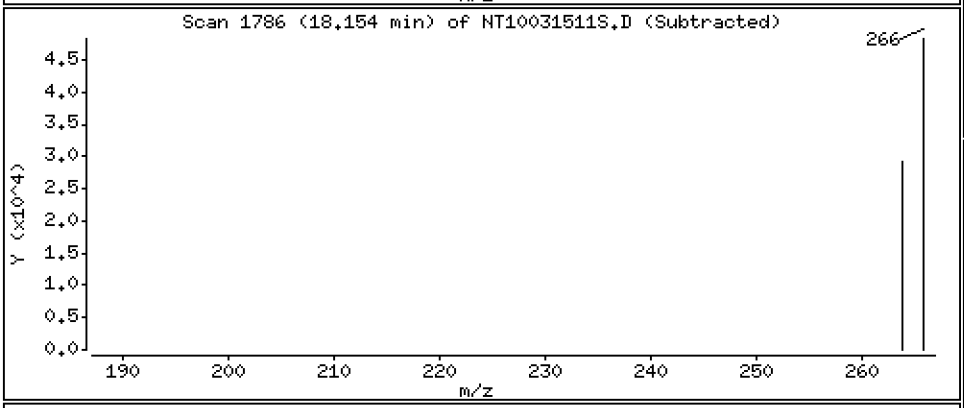
Column diameter: 0.25

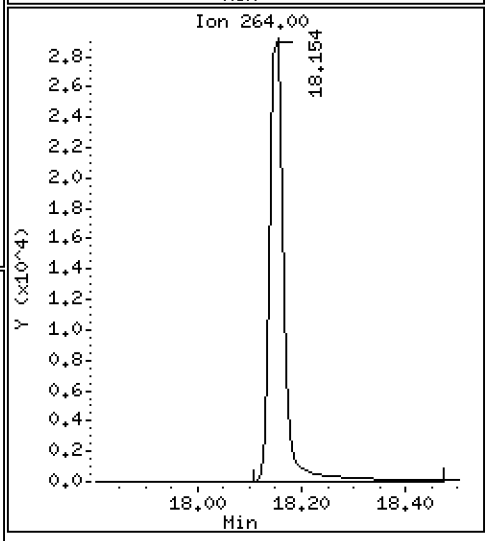
58 Pentachlorophenol

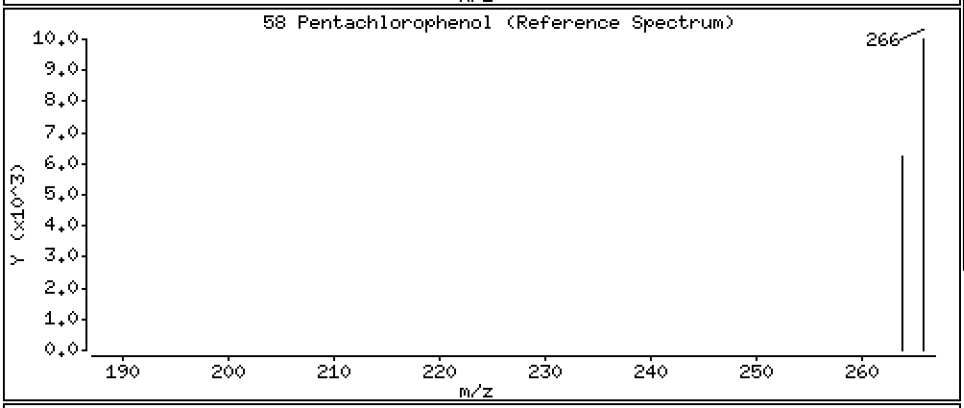
Concentration: 4.418 ug/L

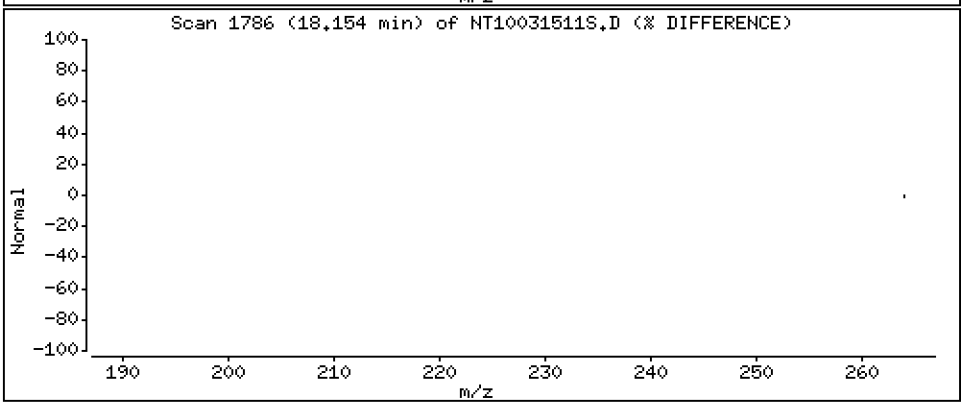












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

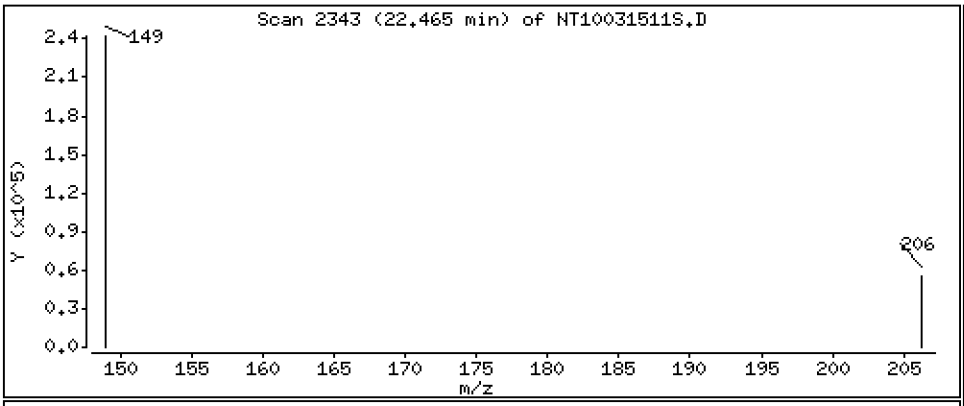
Operator: JGR

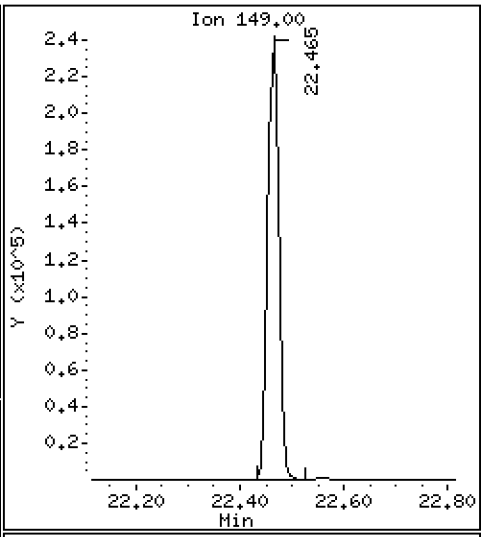
Column phase: ZB-5msi

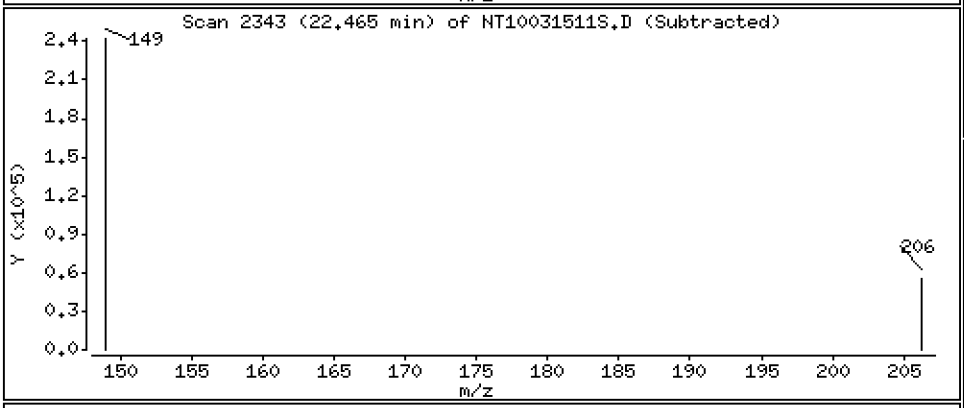
Column diameter: 0.25

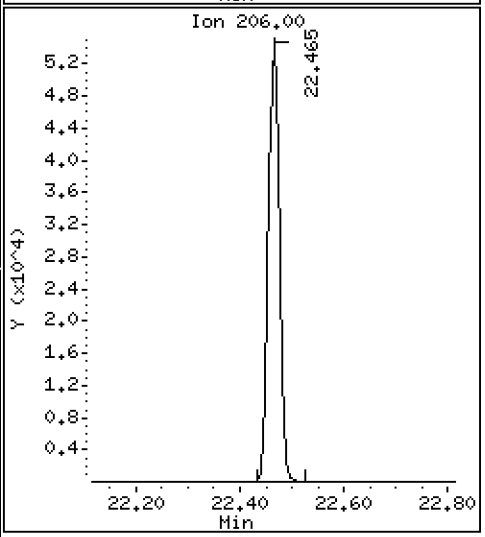
67 Butylbenzylphthalate

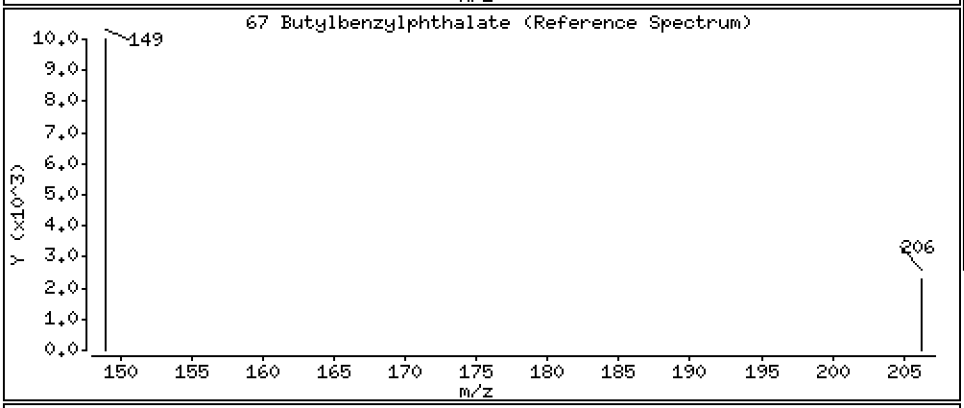
Concentration: 5.121 ug/L

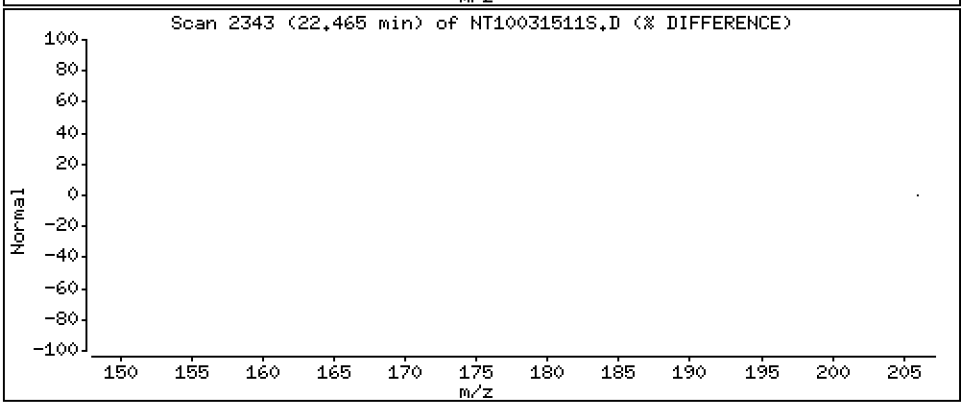












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

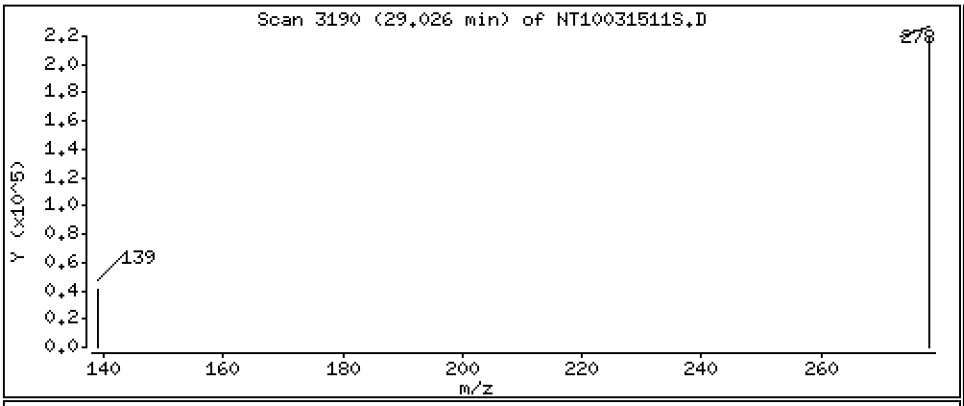
Operator: JGR

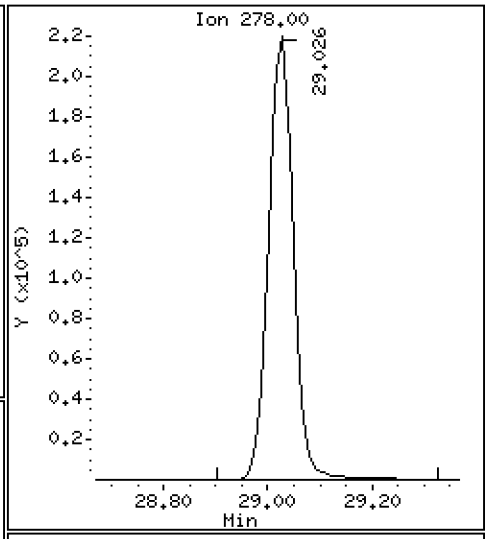
Column phase: ZB-5msi

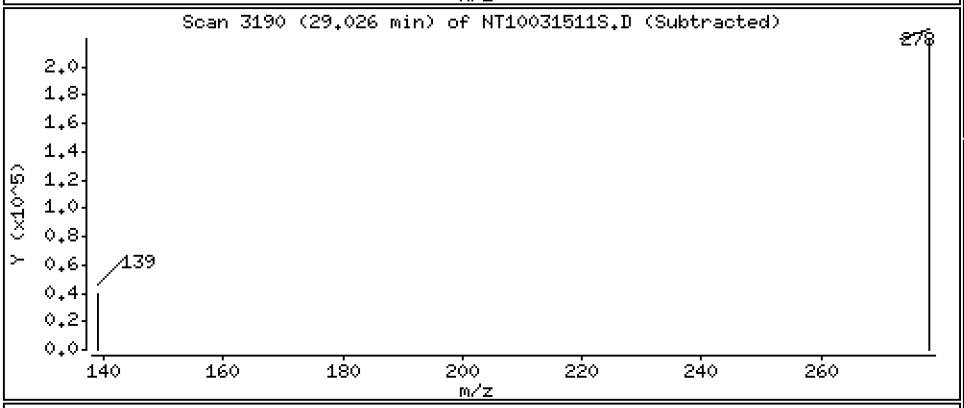
Column diameter: 0.25

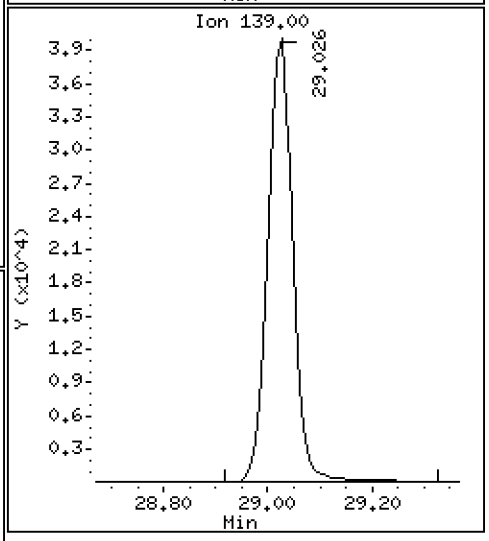
79 Dibenzo(a,h)anthracene

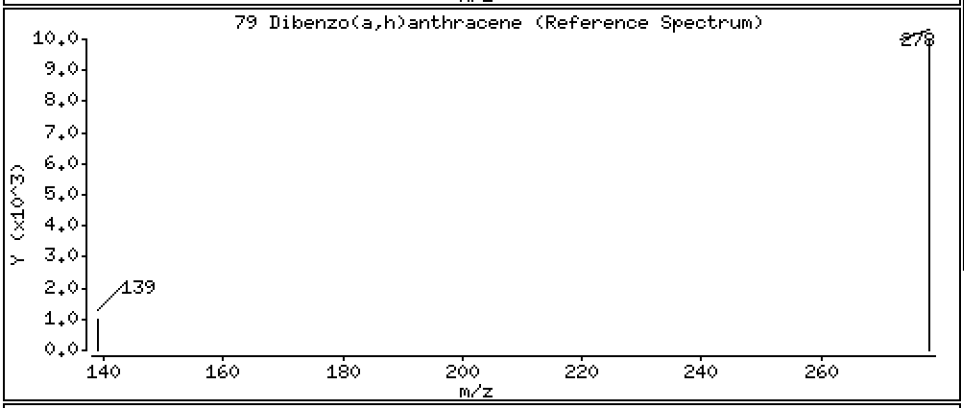
Concentration: 4.238 ug/L

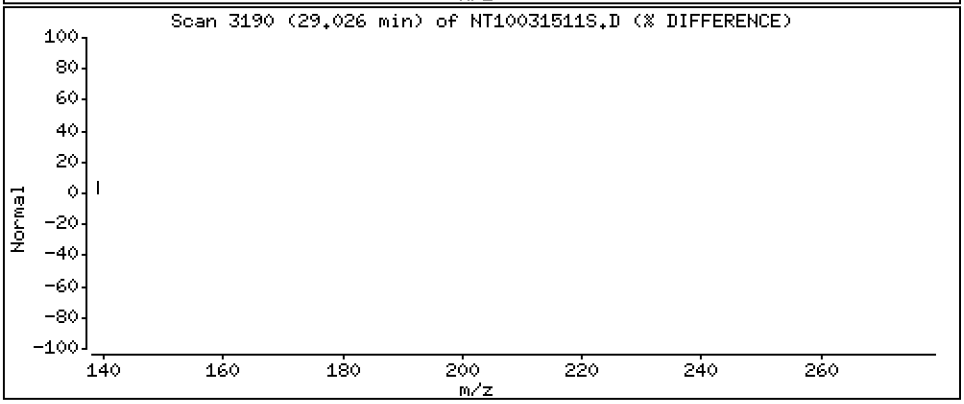












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

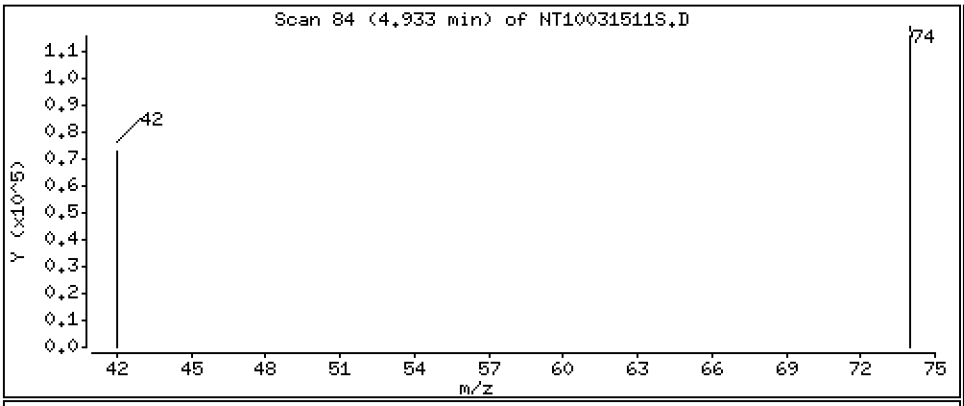
Operator: JGR

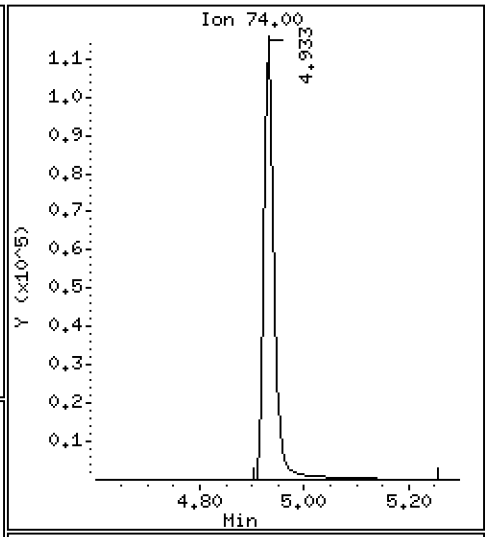
Column phase: ZB-5msi

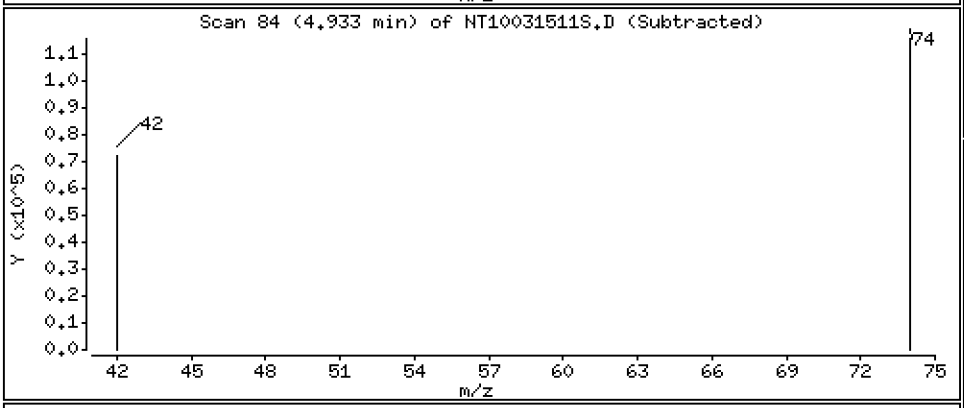
Column diameter: 0.25

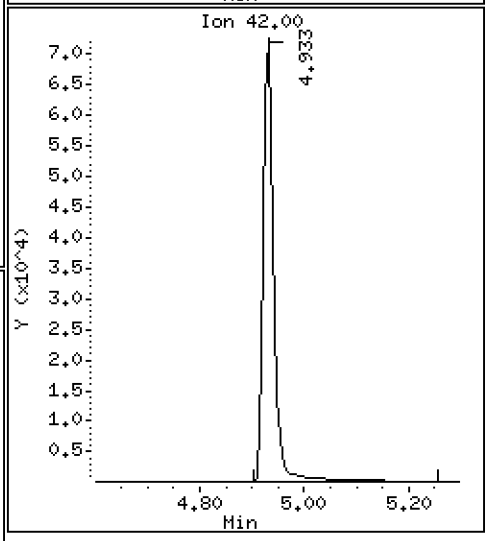
90 N-Nitrosodimethylamine

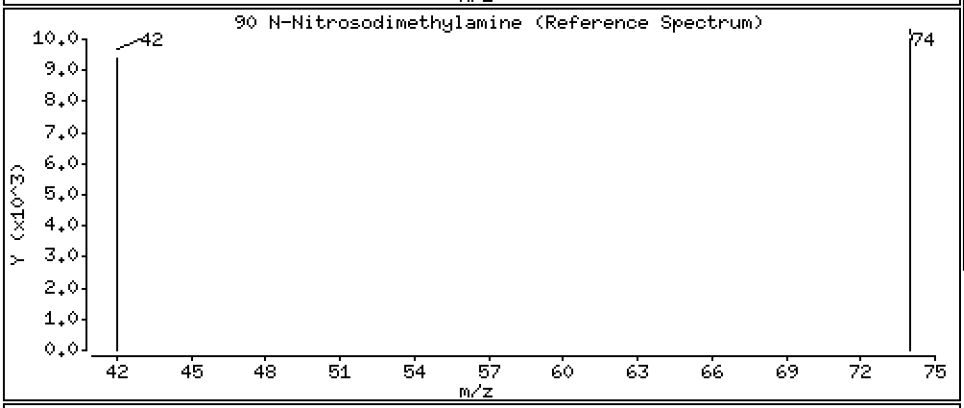
Concentration: 5.096 ug/L

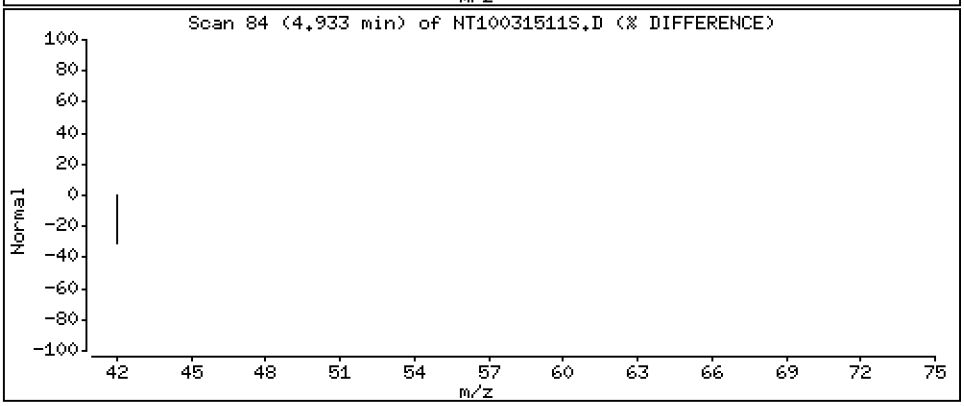












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D
Lab Smp Id: SLC0238-SCV1
Inj Date : 16-MAR-2023 02:16 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0238-SCV1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	Compound Not Detected.					
3	Phenol	94	8.664	8.664	(0.931)	303581	4.37299	4.373
7	1,3-Dichlorobenzene	146	9.236	9.236	(0.992)	301605	4.64290	4.643
* 8	1,4-Dichlorobenzene-d4	152	9.306	9.298	(1.000)	166866	4.00000	
9	1,4-Dichlorobenzene	146	9.329	9.329	(1.002)	303390	4.83813	4.838
11	Benzyl alcohol	79	9.562	9.570	(1.028)	208505	5.18071	5.181
12	1,2-Dichlorobenzene	146	9.686	9.686	(1.041)	288539	4.67875	4.679
13	2-Methylphenol	108	9.772	9.772	(1.050)	201888	4.19698	4.197
15	4-Methylphenol	108	10.043	10.036	(1.079)	223083	4.46301	4.463
16	N-Nitroso-di-n-propylamine	70	10.121	10.113	(1.088)	186707	5.28174	5.282
22	2,4-Dimethylphenol	107	11.086	11.087	(0.942)	193654	3.66015	3.660
24	Benzoic acid	105	11.214	11.189	(0.952)	200487	6.74612	6.746
26	1,2,4-Trichlorobenzene	180	11.690	11.690	(0.993)	236605	4.44540	4.445
* 27	Naphthalene-d8	136	11.775	11.775	(1.000)	612104	4.00000	
30	Hexachlorobutadiene	225	12.169	12.169	(1.033)	150581	4.65339	4.653
39	Dimethylphthalate	163	14.877	14.877	(0.967)	472341	4.94766	4.948
* 42	Acenaphthene-d10	162	15.388	15.380	(1.000)	302524	4.00000	
50	Diethylphthalate	149	16.331	16.324	(1.061)	530540	5.36440	5.364
54	N-Nitrosodiphenylamine	169	16.725	16.717	(0.908)	377357	5.08034	5.080
57	Hexachlorobenzene	284	17.798	17.798	(0.966)	153405	4.61353	4.614

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	18.154	18.154	(0.985)	83223	4.41780	4.418
*	59 Phenanthrene-d10	188	18.425	18.417	(1.000)	553619	4.00000	
$	66 Terphenyl-d14	244	21.543	21.543	(0.918)	117	0.00154	0.001543(RM)
	67 Butylbenzylphthalate	149	22.464	22.465	(0.958)	332887	5.12147	5.121
*	69 Chrysene-d12	240	23.455	23.455	(1.000)	465428	4.00000	
*	77 Perylene-d12	264	26.188	26.188	(1.000)	532593	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.026	29.019	(1.108)	722983	4.23762	4.238
	90 N-Nitrosodimethylamine	74	4.933	4.948	(0.530)	163555	5.09625	5.096

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031511S.D
Lab Smp Id: SLC0238-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 23:06
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	188081	94041	376162	166866	-11.28
27 Naphthalene-d8	674549	337275	1349098	612104	-9.26
42 Acenaphthene-d10	328275	164138	656550	302524	-7.84
59 Phenanthrene-d10	597140	298570	1194280	553619	-7.29
69 Chrysene-d12	466503	233252	933006	465428	-0.23
77 Perylene-d12	518203	259102	1036406	532593	2.78

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.31	0.08
27 Naphthalene-d8	11.77	11.27	12.27	11.78	0.01
42 Acenaphthene-d10	15.39	14.89	15.89	15.39	0.01
59 Phenanthrene-d10	18.42	17.92	18.92	18.43	0.00
69 Chrysene-d12	23.45	22.95	23.95	23.46	0.00
77 Perylene-d12	26.19	25.69	26.69	26.19	0.00

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

REVIEW SUMMARY FOR FILE - NT10031511S.D

Lab ID: SLC0238-SCV1
nt10.i, 20230315.b\20230315.b\SIMABN2.m,   16-MAR-2023 02:16

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.952	0.000	0.9524	Benzoic acid

RRT check based on Ccal File: 20230315.b/NT10031510S.D

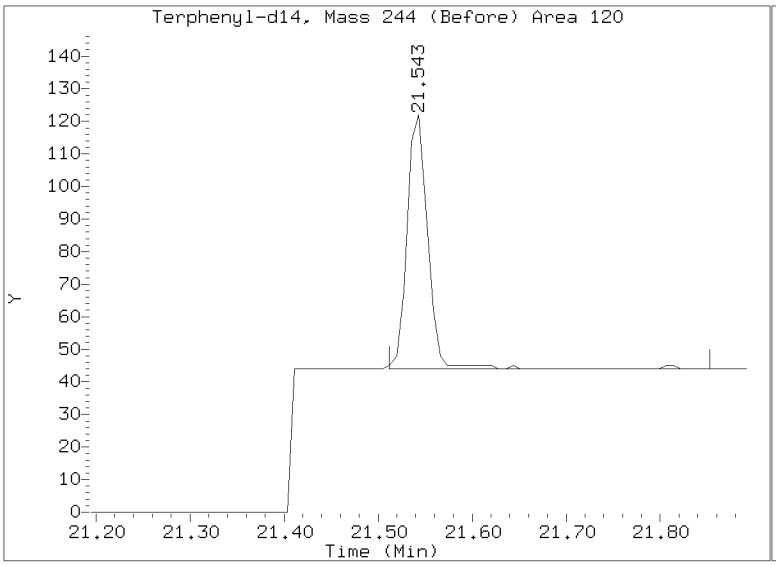
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

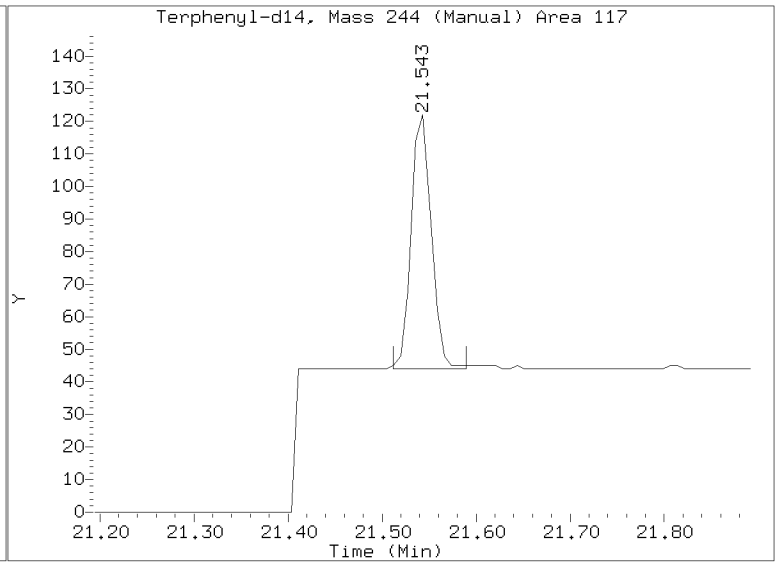
Exception: 1,2,4-Trichlorobenzene 0.0010

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031511S.D
Injection Date: 16-MAR-2023 02:16
Lab ID:SLC0238-SCV1 Client ID:
Report Date: 03/16/2023 14:49





SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GC00049
Laboratory ID: SLC0238-SCV1
Sequence: SLC0238
Standard ID: K010066

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
1,4-Dichlorobenzene	5.0000	4.8	-3.2	20.00
1,2-Dichlorobenzene	5.0000	4.7	-6.4	20.00
Benzyl Alcohol	5.0000	5.2	3.6	20.00
Benzoic acid	10.000	6.7	-32.5 *	20.00
2,4-Dimethylphenol	5.0000	3.7	-26.8 *	20.00
1,2,4-Trichlorobenzene	5.0000	4.4	-11.1	20.00
N-Nitrosodiphenylamine	5.0000	5.1	1.6	20.00
Pentachlorophenol	5.0000	4.4	-11.6	20.00
2-Fluorophenol	7.5000	0.00		
p-Terphenyl-d14	5.0000	0.00154	-100	

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

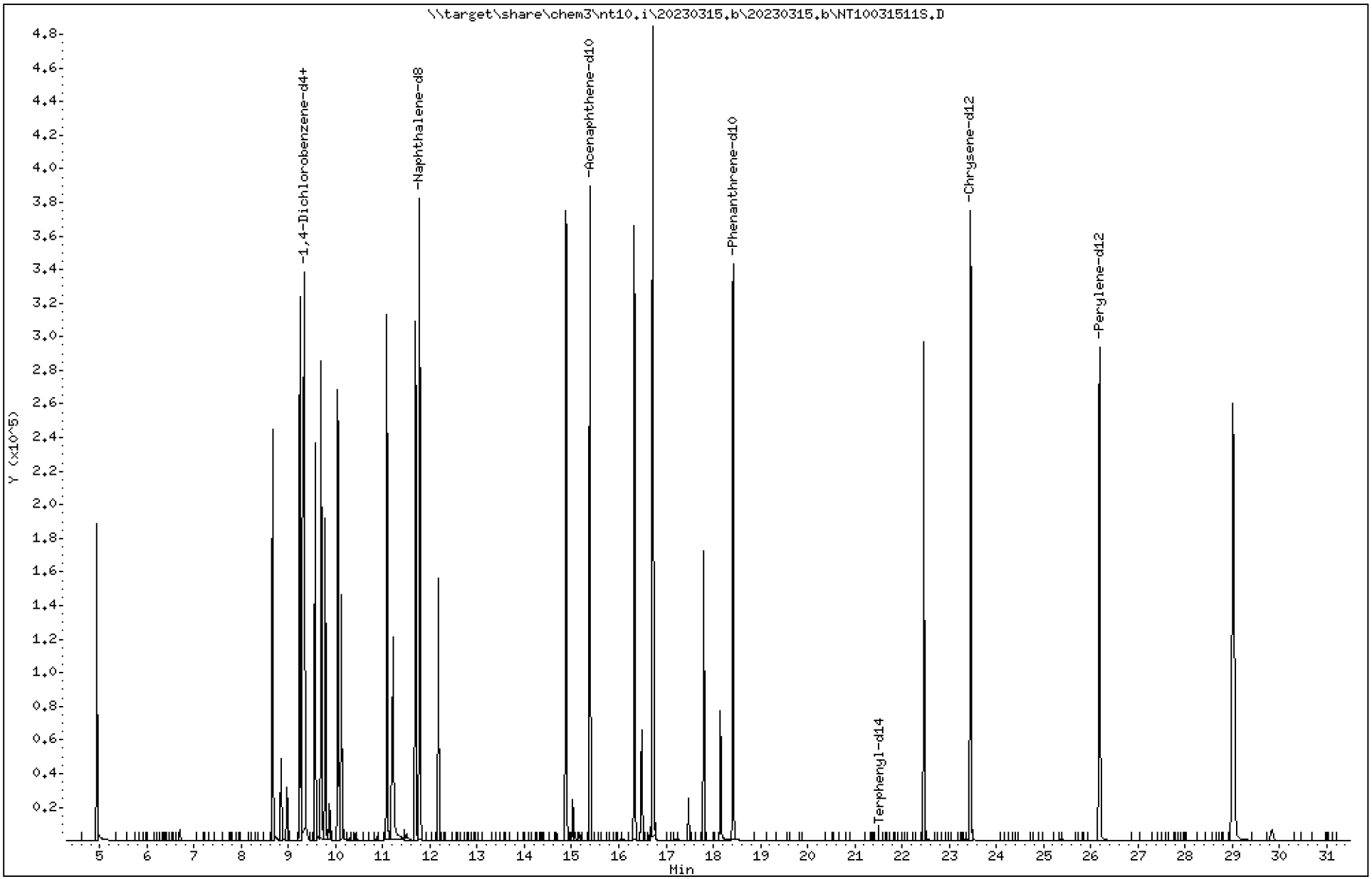
Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

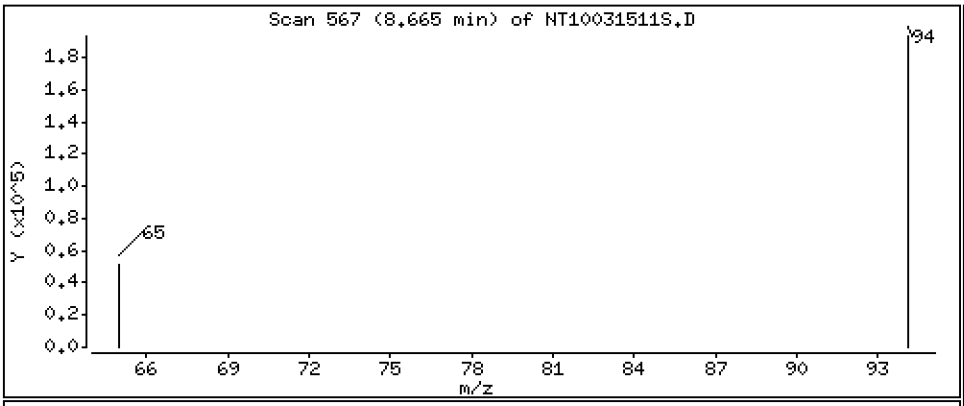
Operator: JGR

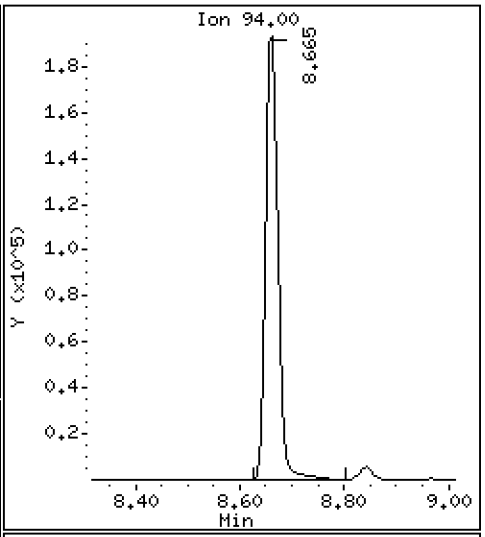
Column phase: ZB-5msi

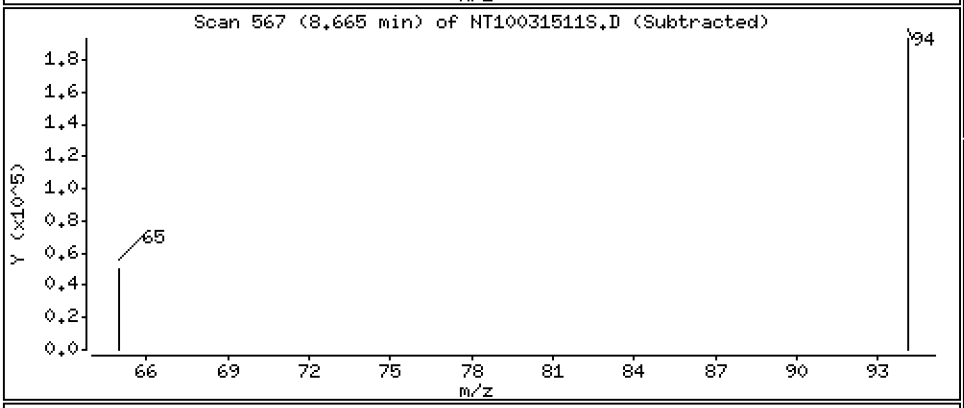
Column diameter: 0.25

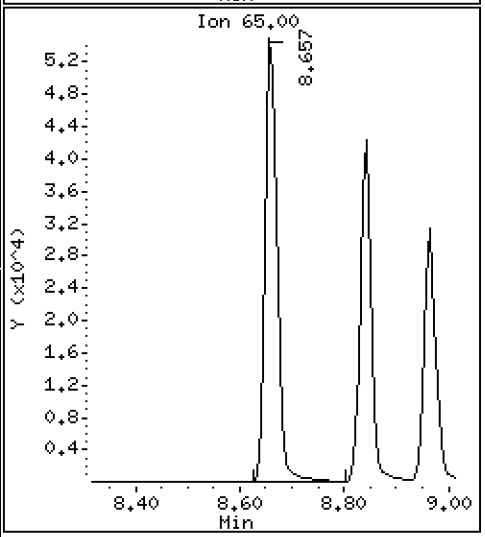
3 Phenol

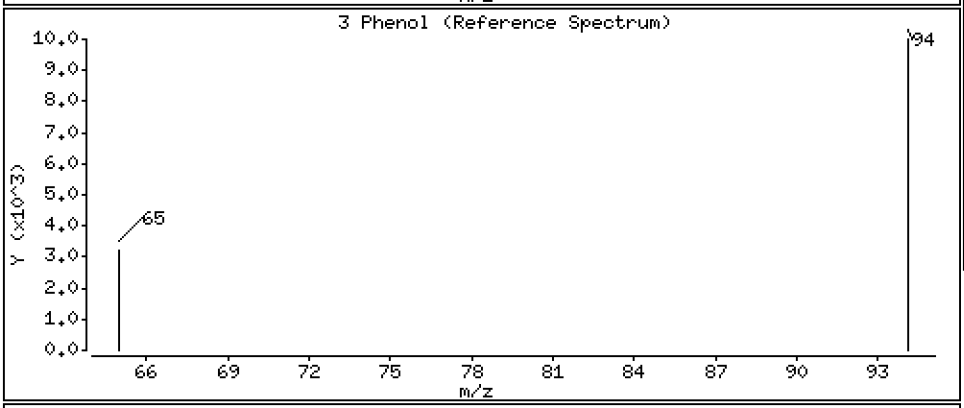
Concentration: 4.373 ug/L

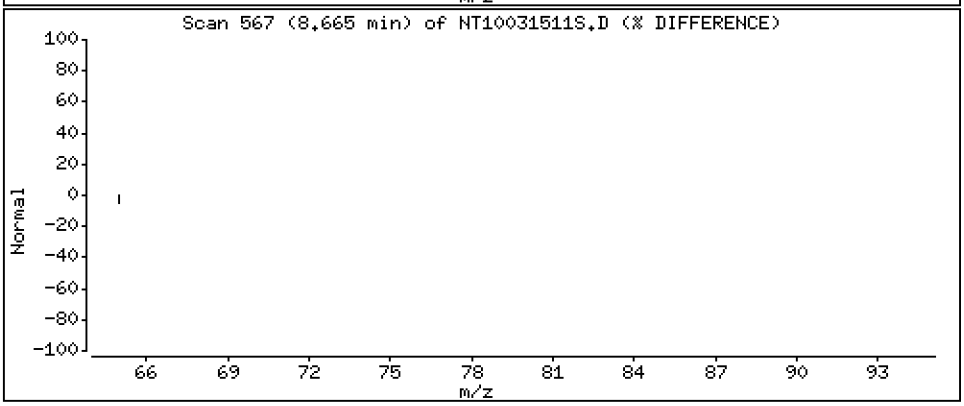












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

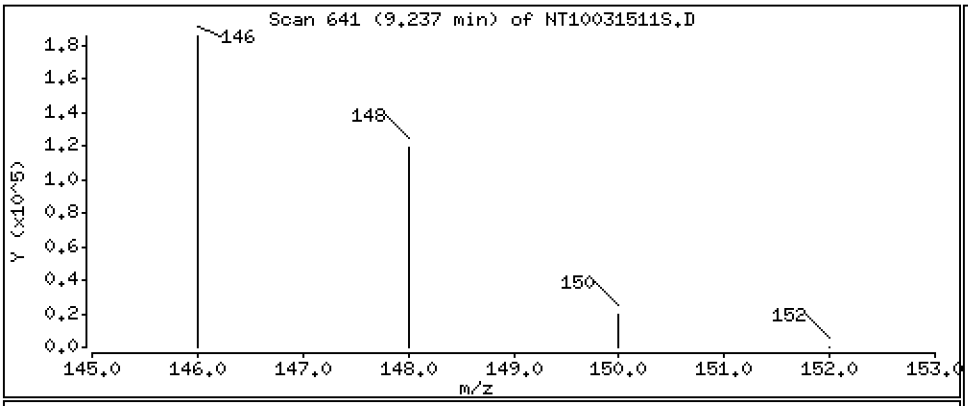
Operator: JGR

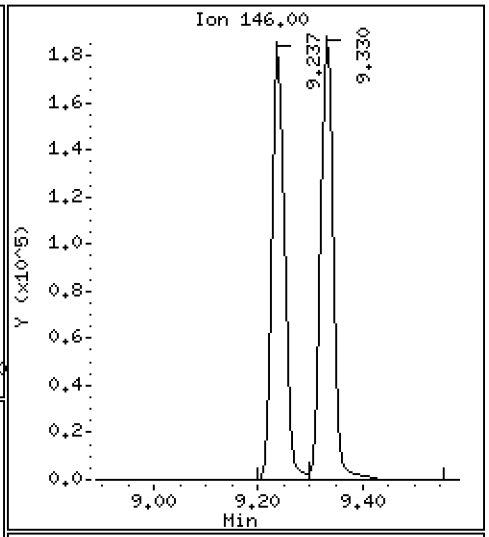
Column phase: ZB-5msi

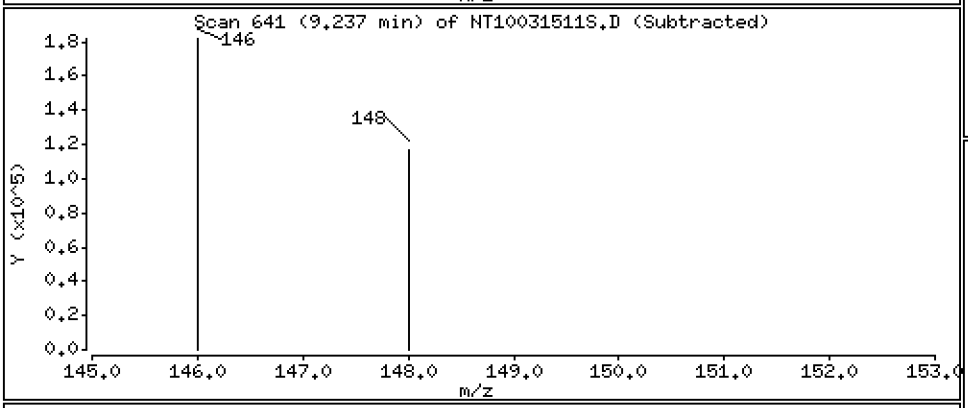
Column diameter: 0.25

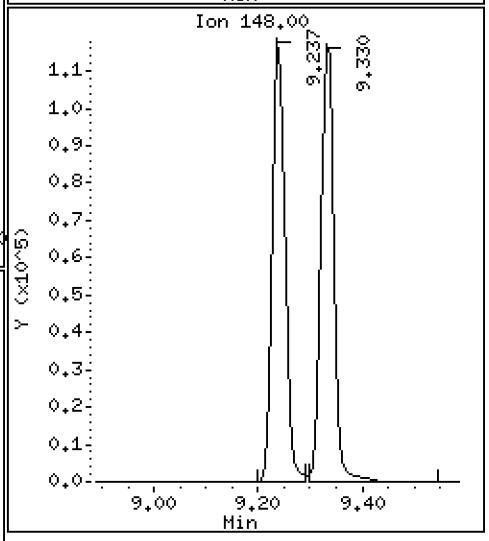
7 1,3-Dichlorobenzene

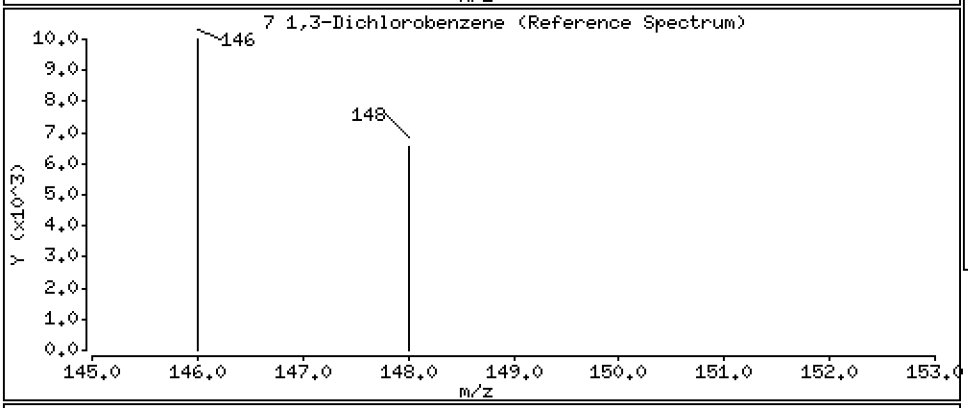
Concentration: 4.643 ug/L

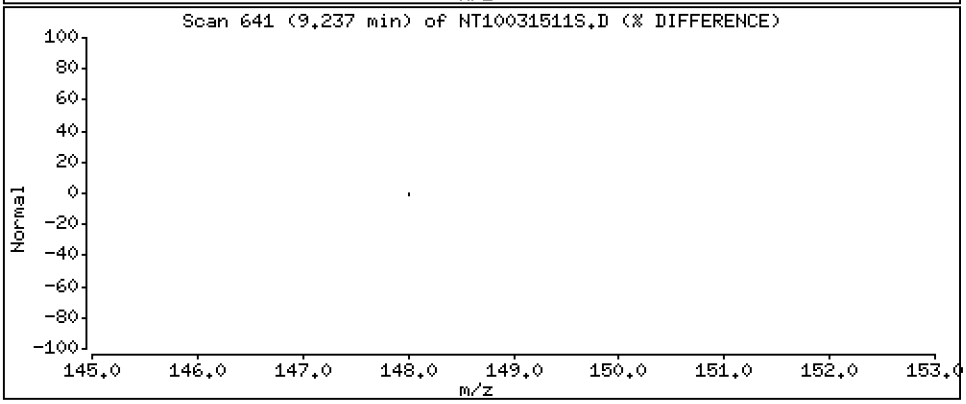












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

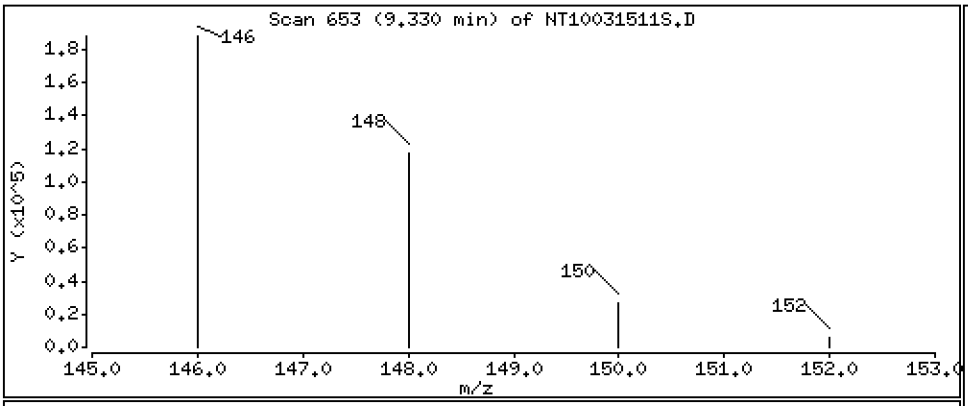
Operator: JGR

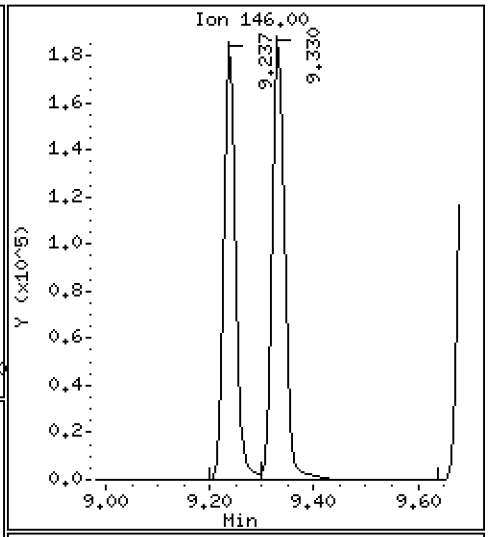
Column phase: ZB-5msi

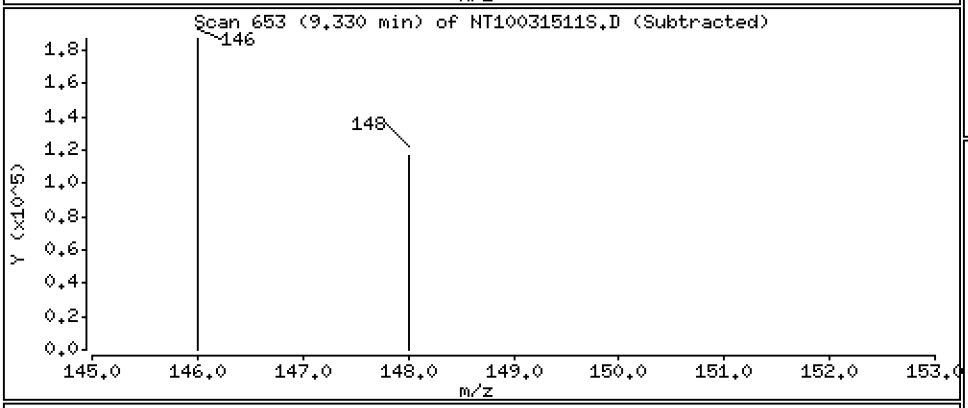
Column diameter: 0.25

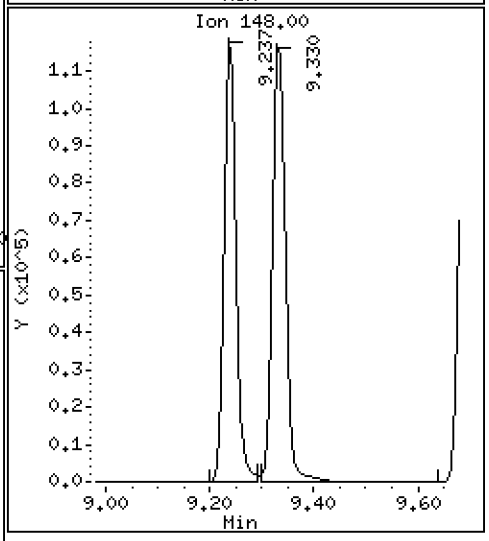
9 1,4-Dichlorobenzene

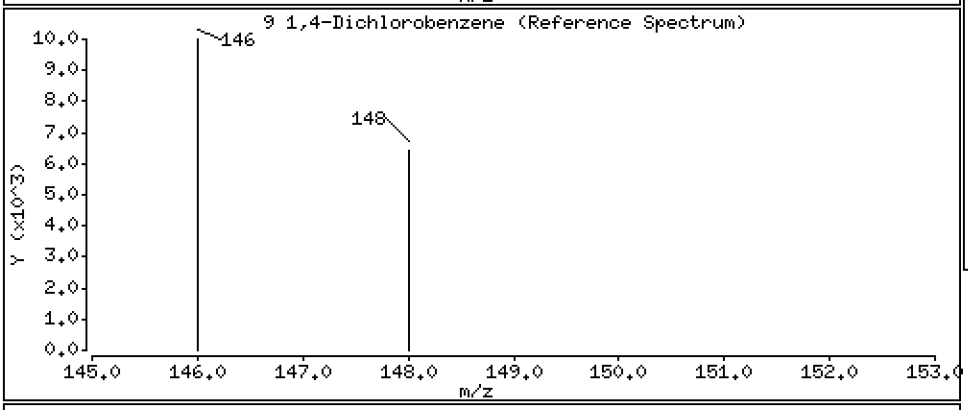
Concentration: 4.838 ug/L

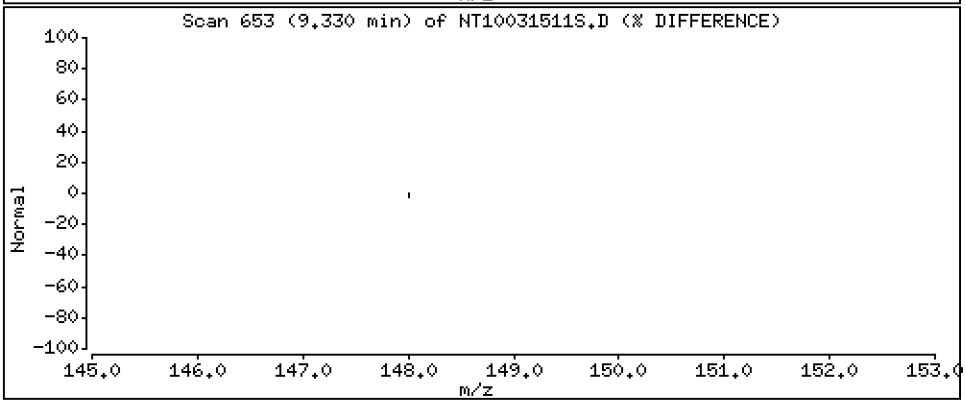












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

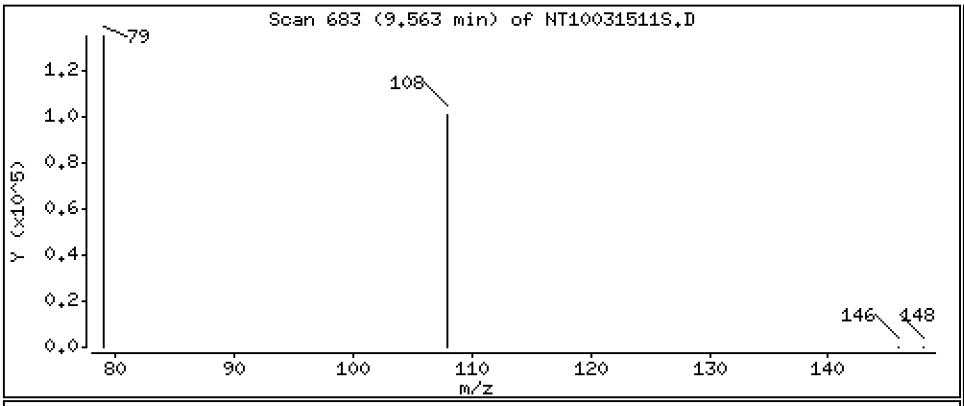
Operator: JGR

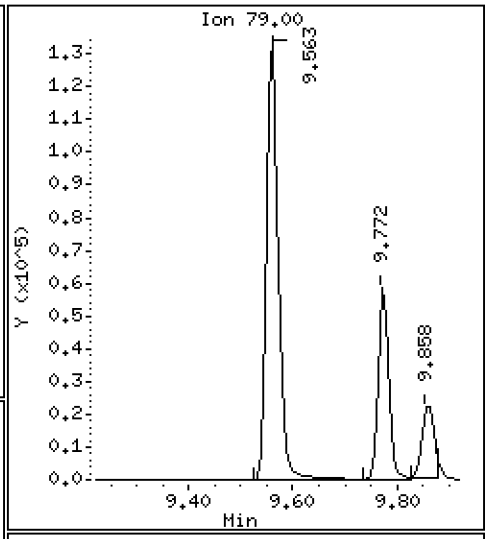
Column phase: ZB-5msi

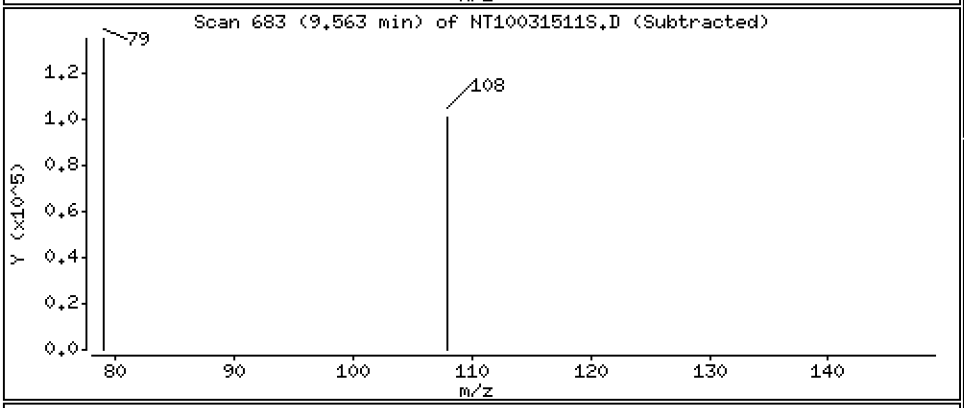
Column diameter: 0.25

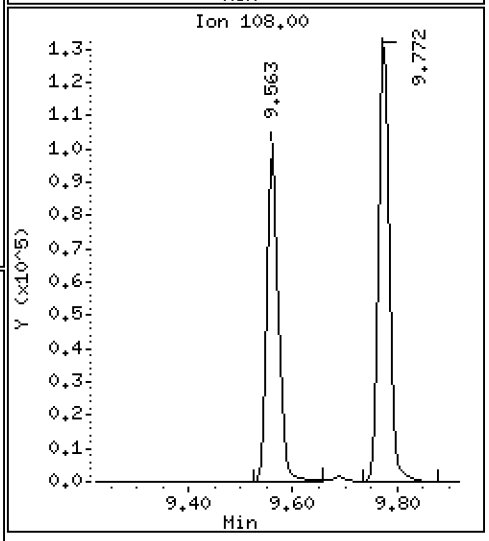
11 Benzyl alcohol

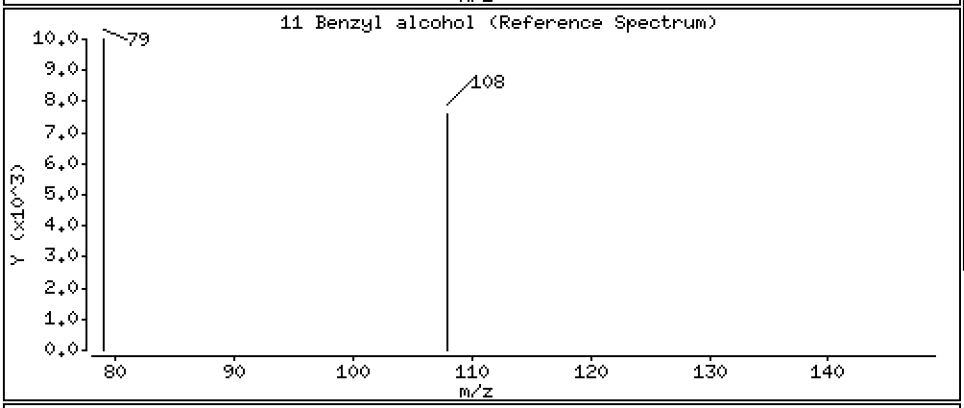
Concentration: 5.181 ug/L

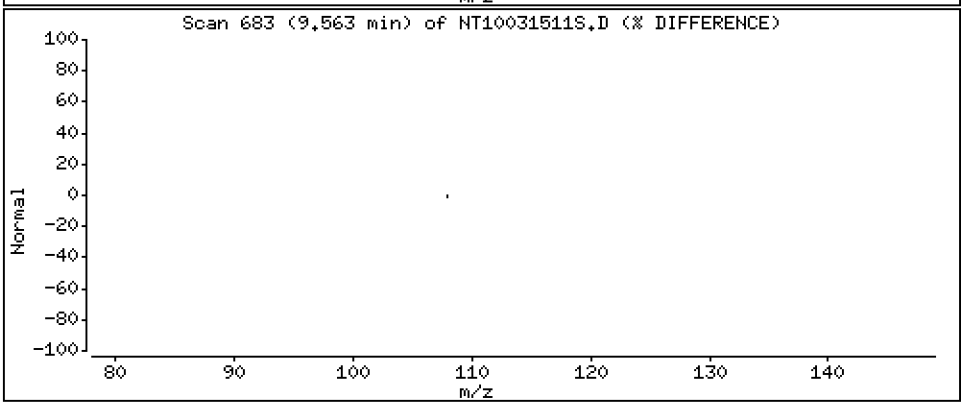












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

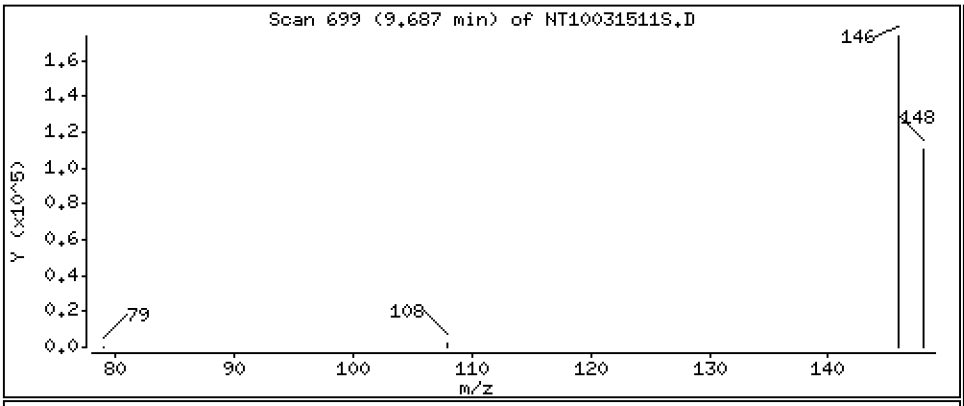
Operator: JGR

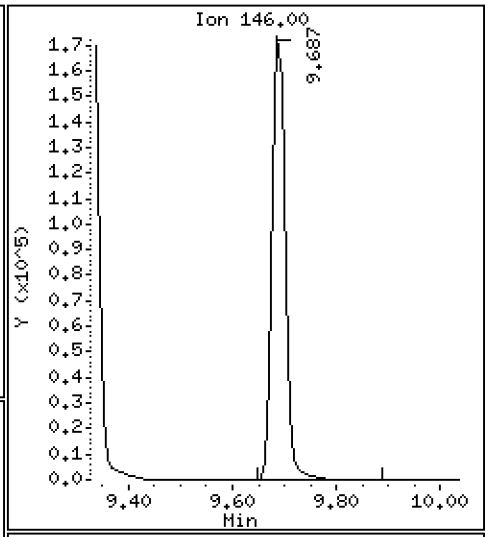
Column phase: ZB-5msi

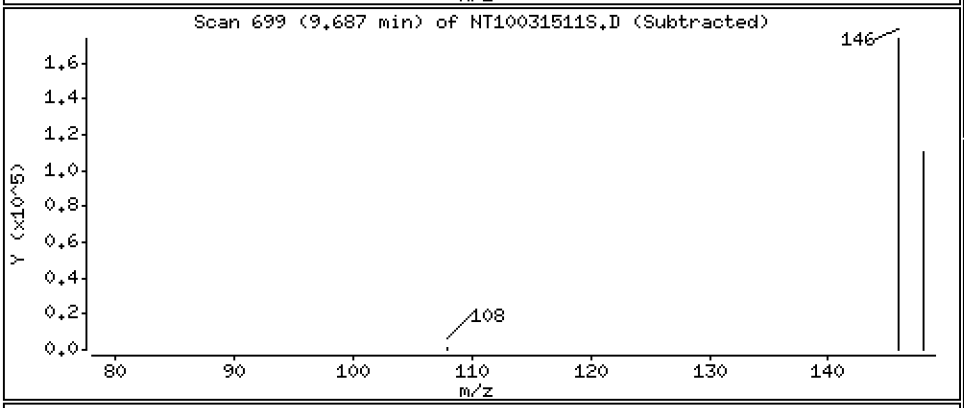
Column diameter: 0.25

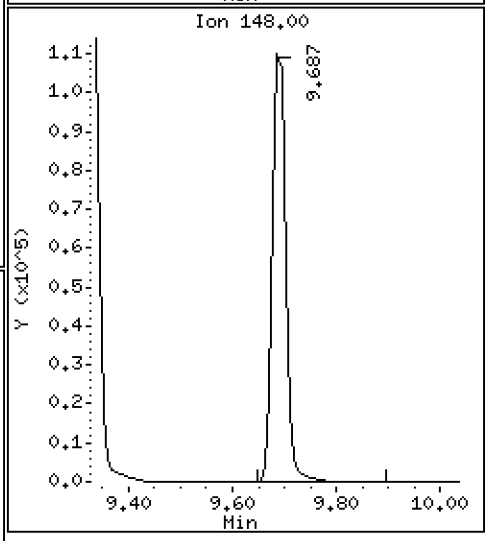
12 1,2-Dichlorobenzene

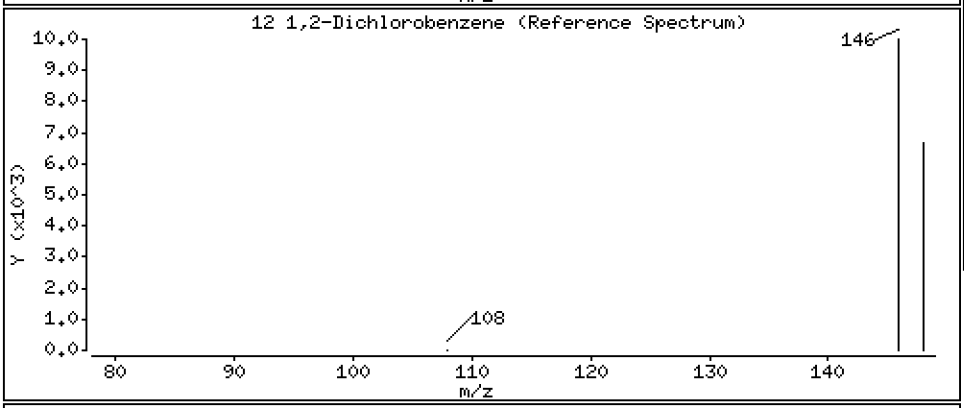
Concentration: 4.679 ug/L

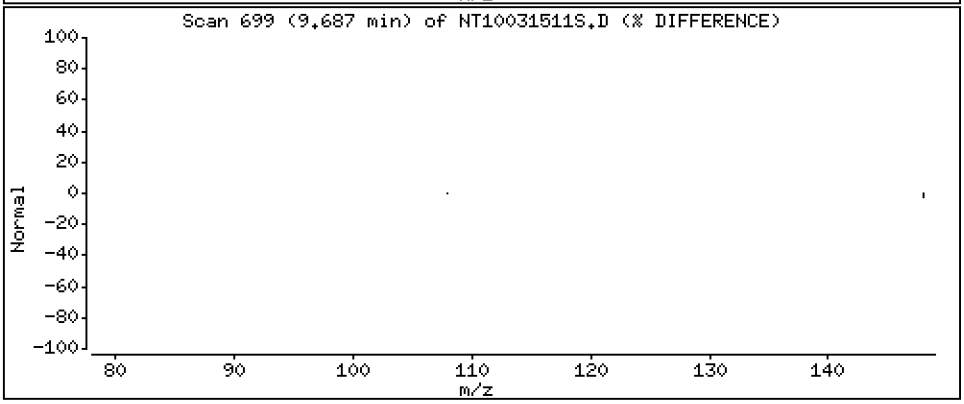












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

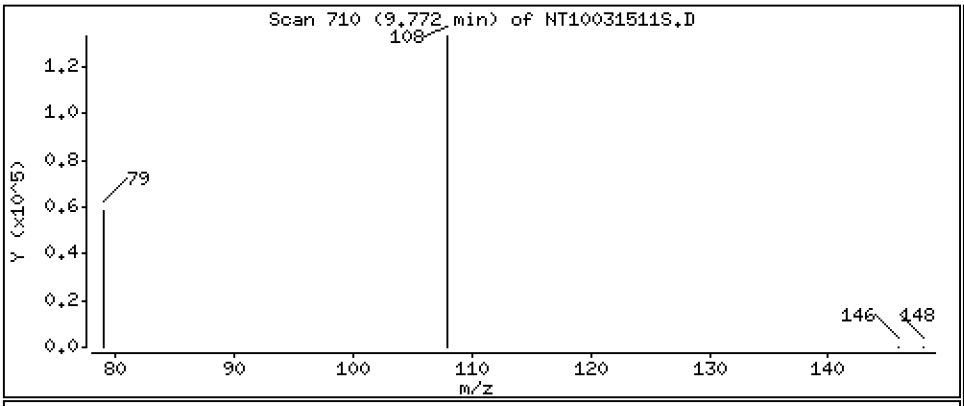
Operator: JGR

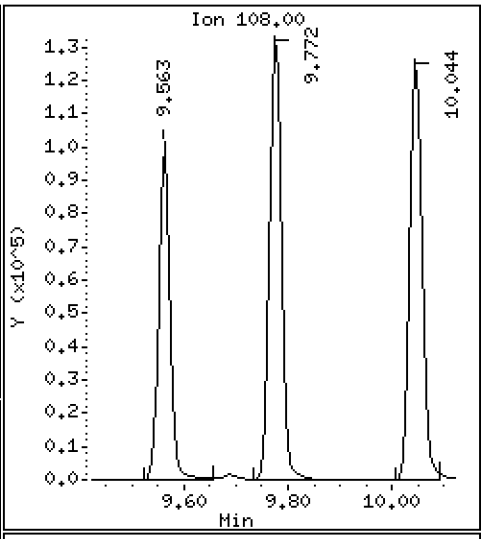
Column phase: ZB-5msi

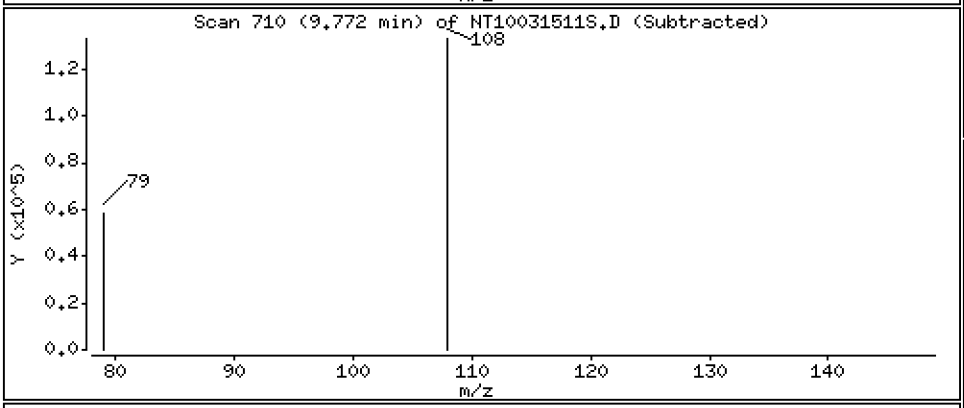
Column diameter: 0.25

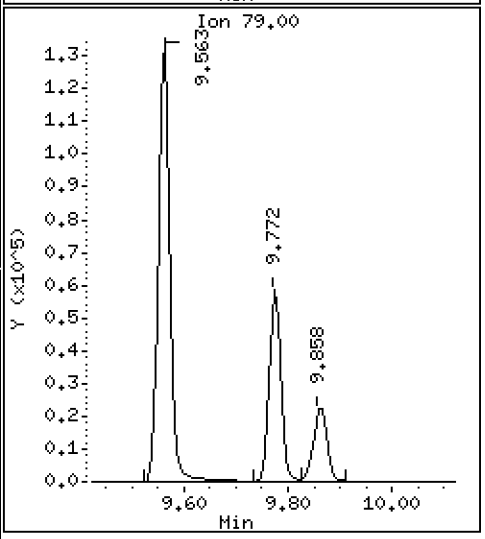
13 2-Methylphenol

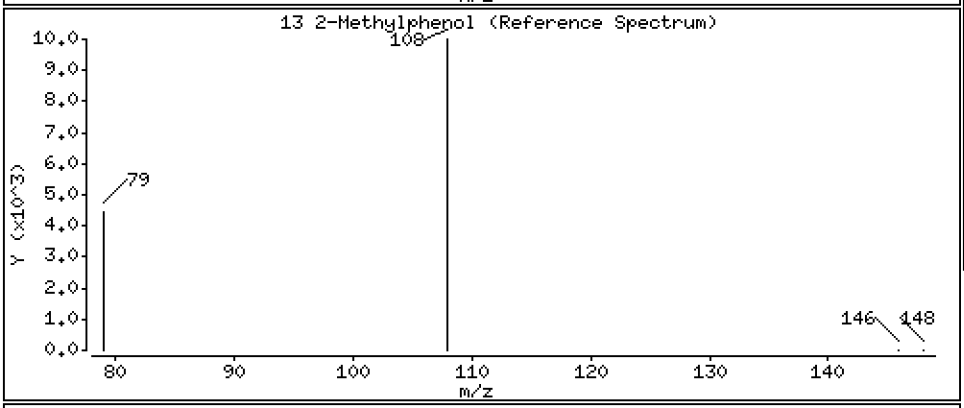
Concentration: 4.197 ug/L

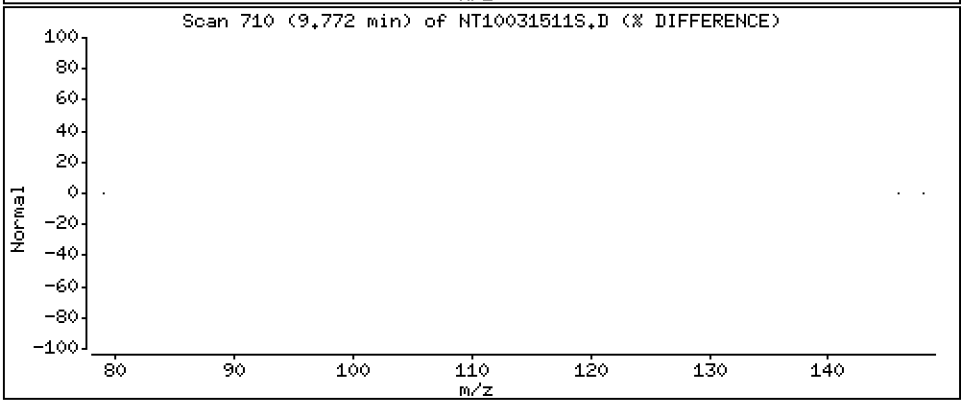












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

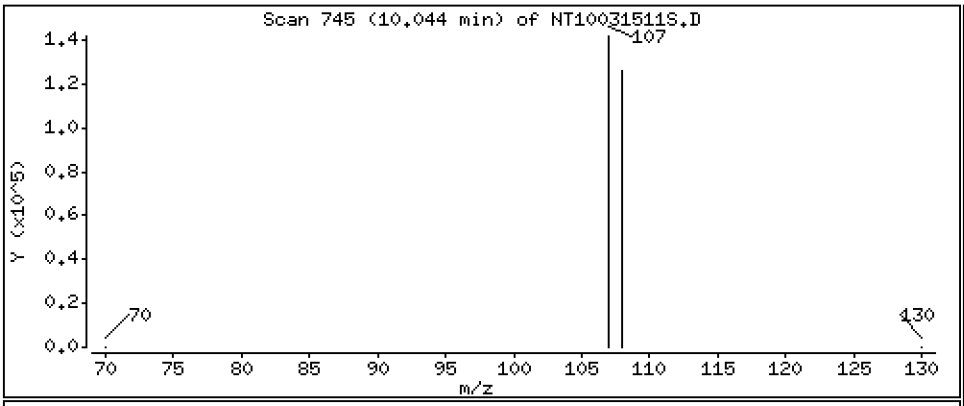
Operator: JGR

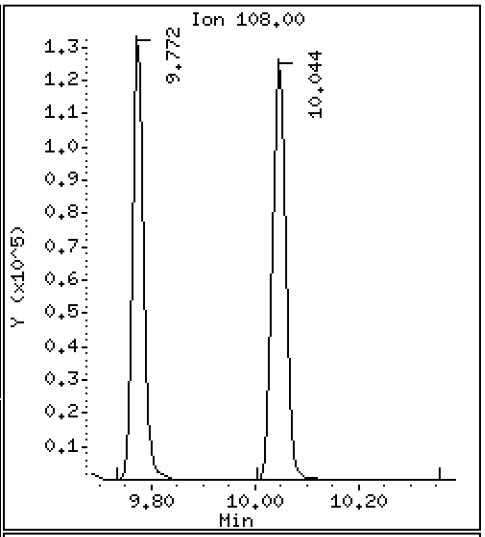
Column phase: ZB-5msi

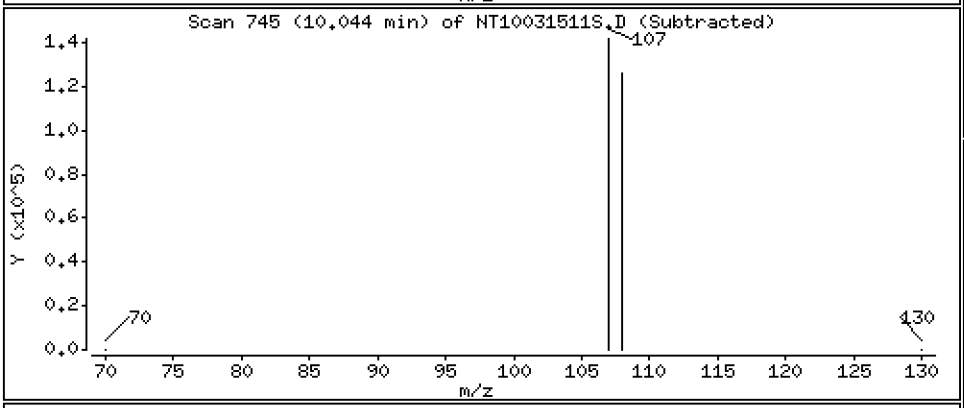
Column diameter: 0.25

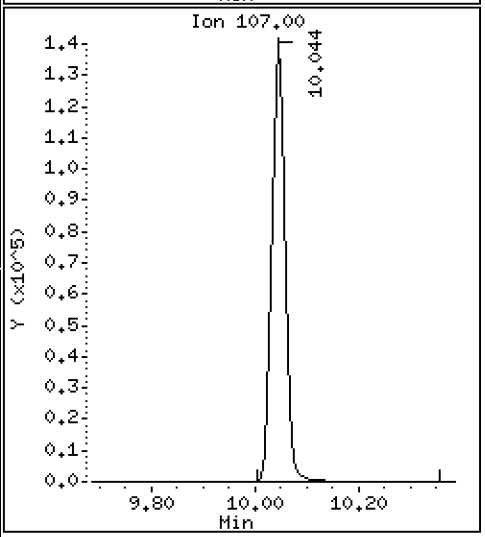
15 4-Methylphenol

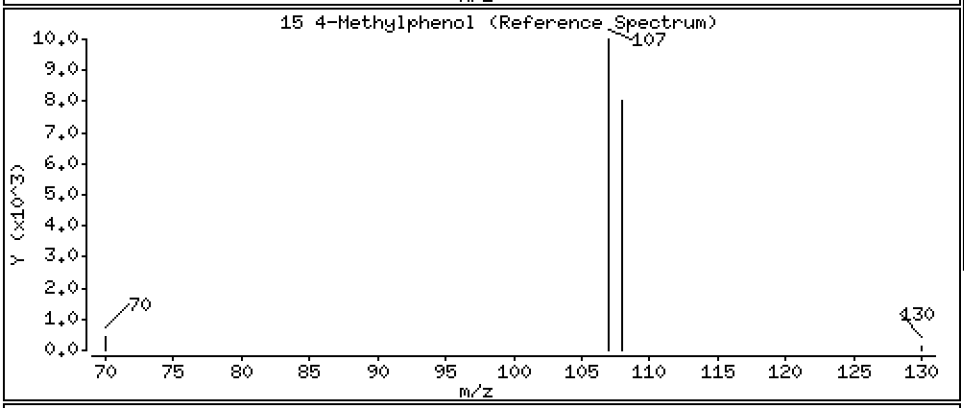
Concentration: 4.463 ug/L

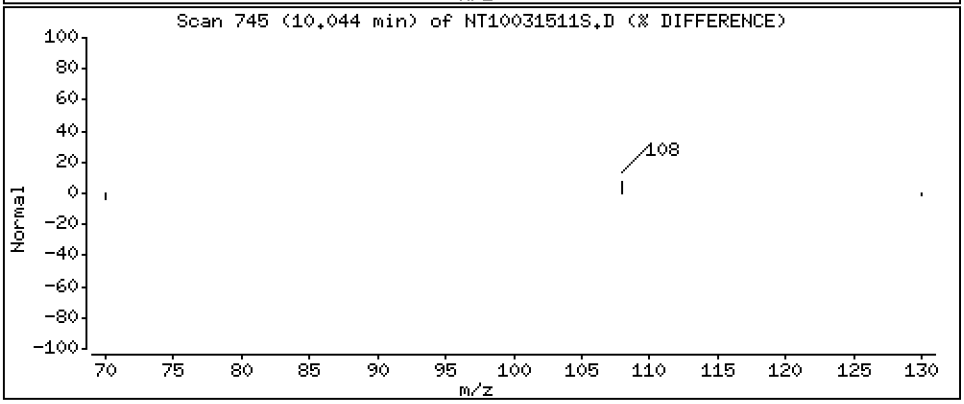












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

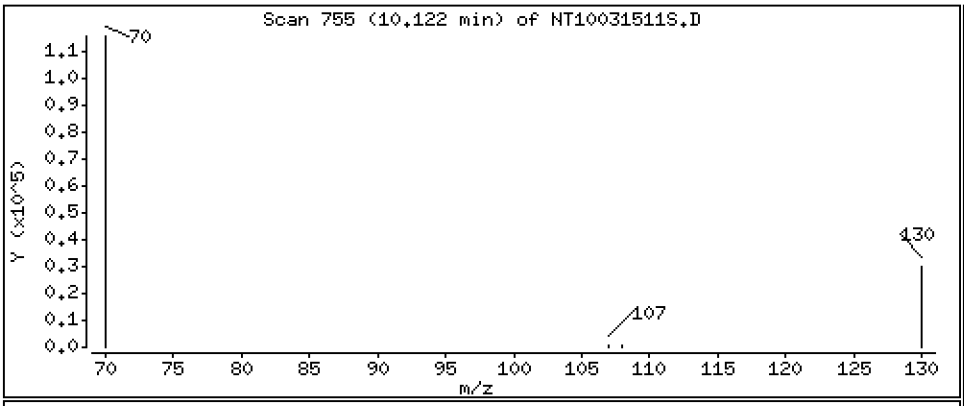
Operator: JGR

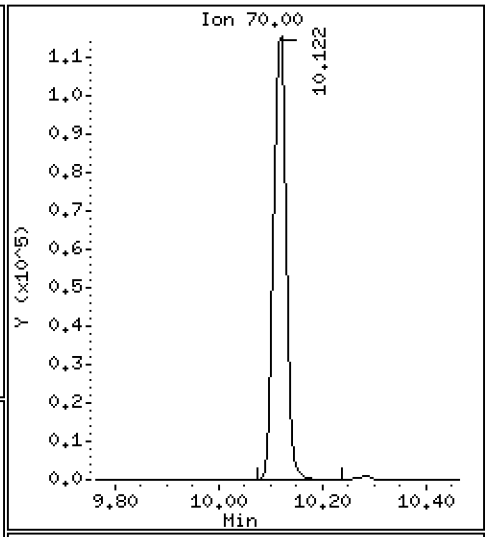
Column phase: ZB-5msi

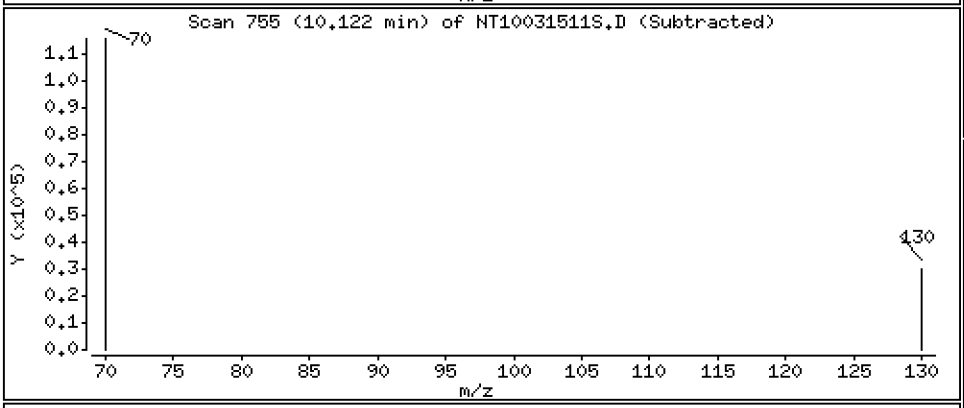
Column diameter: 0.25

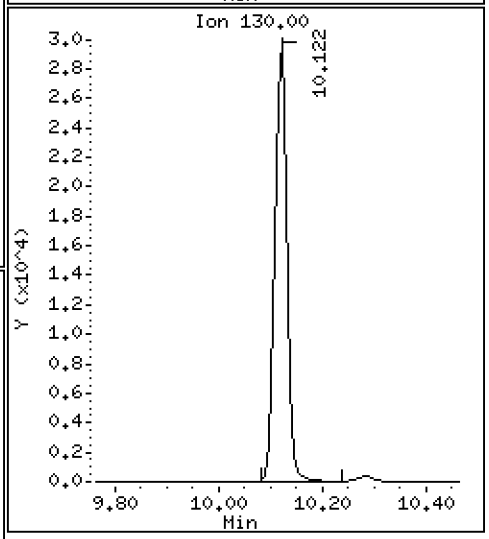
16 N-Nitroso-di-n-propylamine

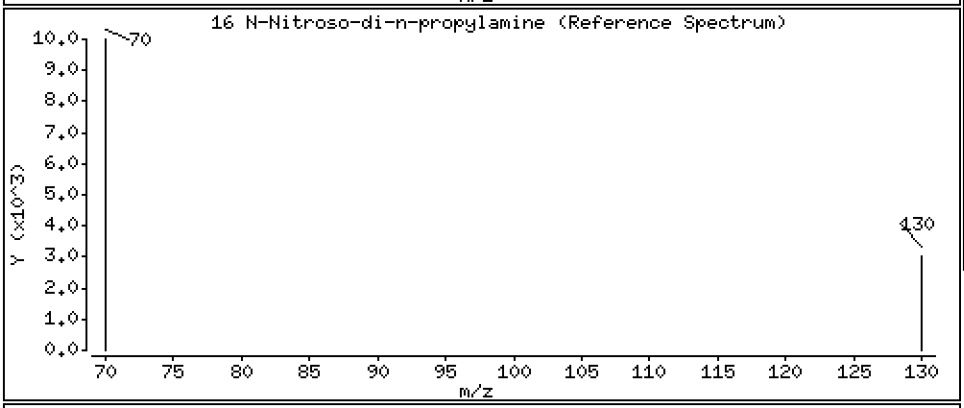
Concentration: 5.282 ug/L

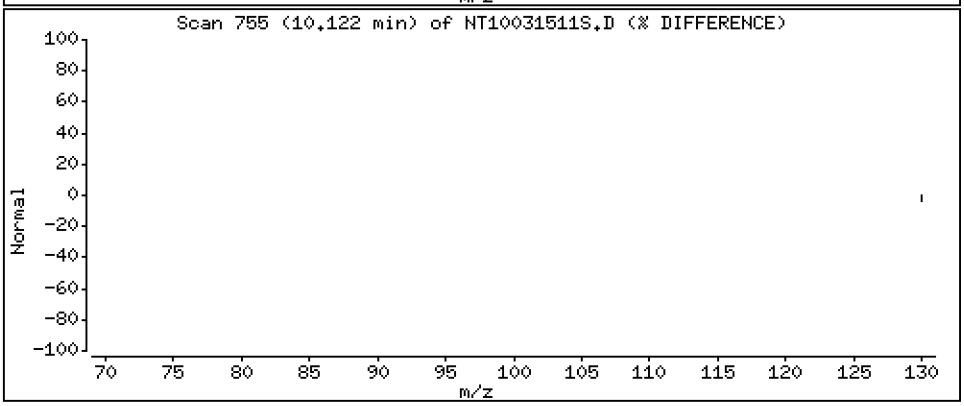












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

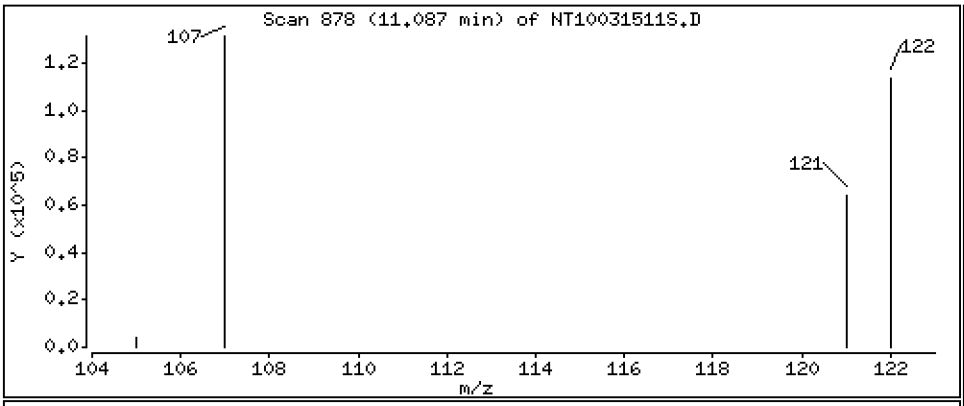
Operator: JGR

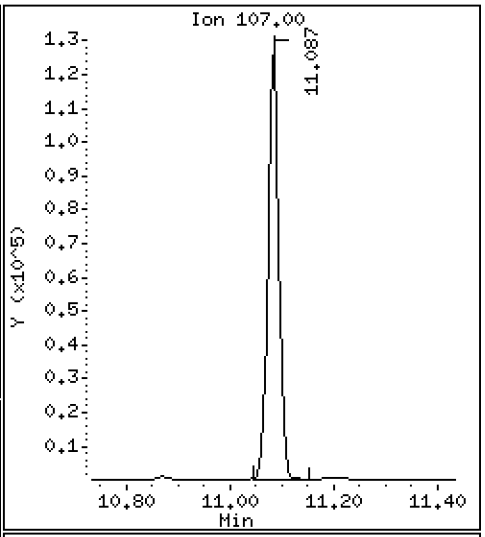
Column phase: ZB-5msi

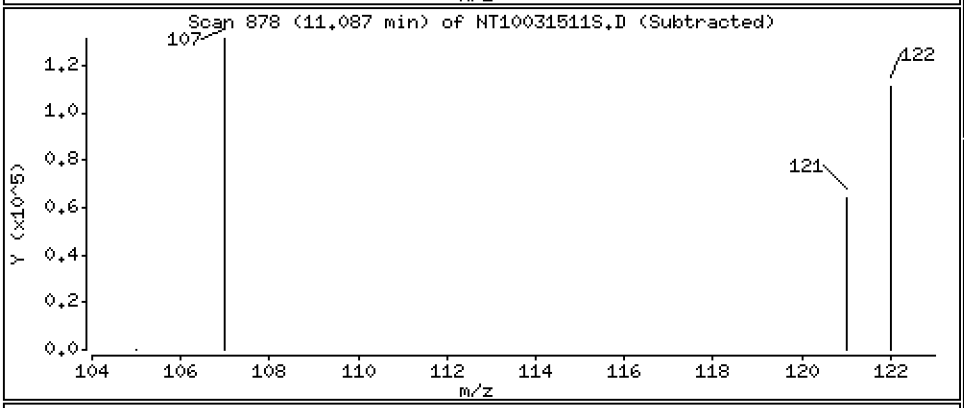
Column diameter: 0.25

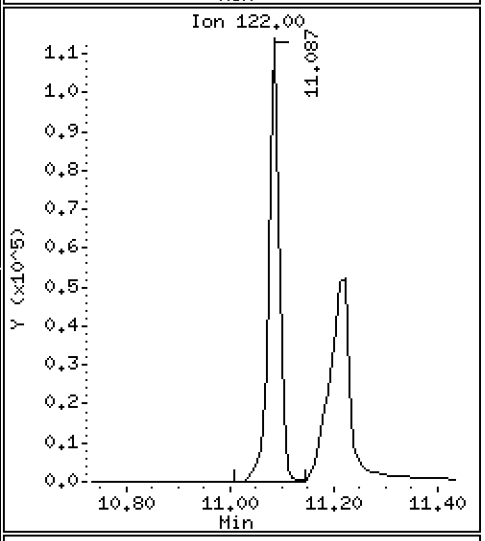
22 2,4-Dimethylphenol

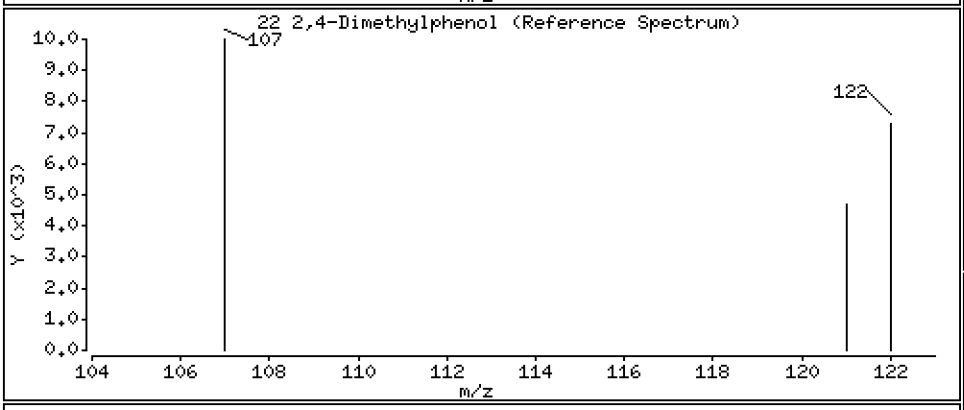
Concentration: 3.660 ug/L

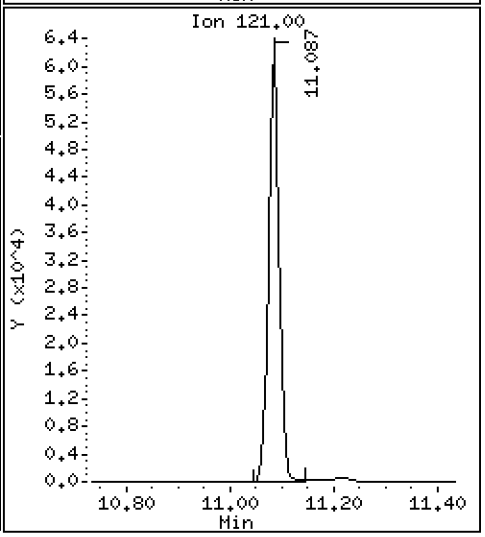


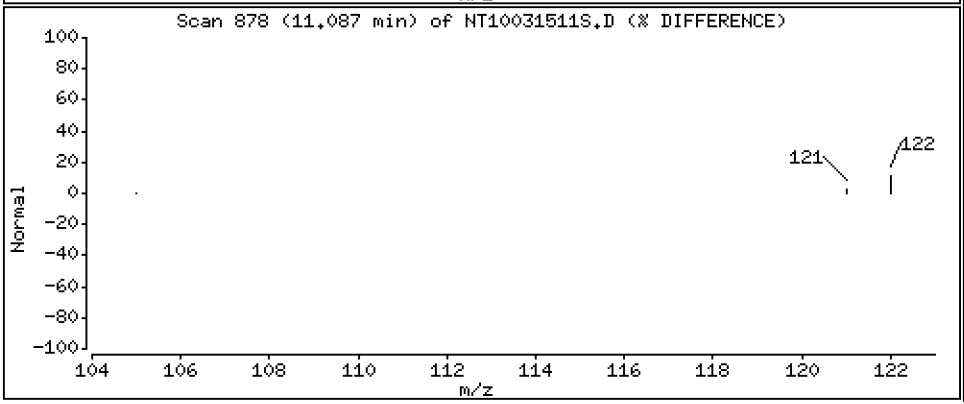












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

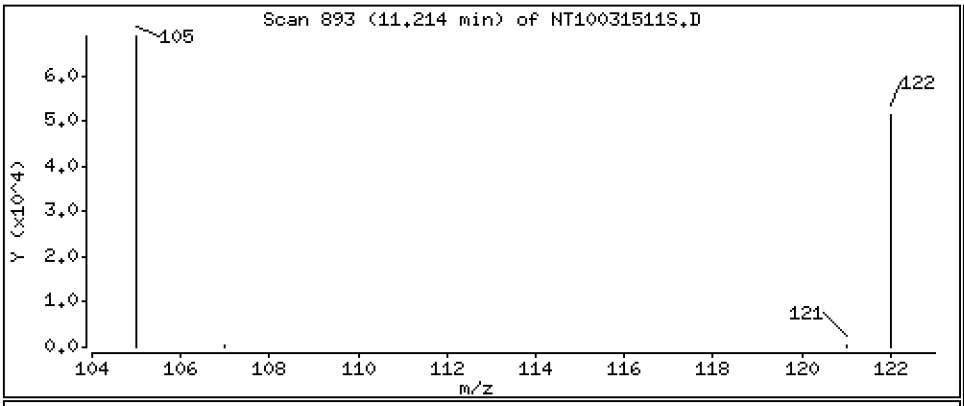
Operator: JGR

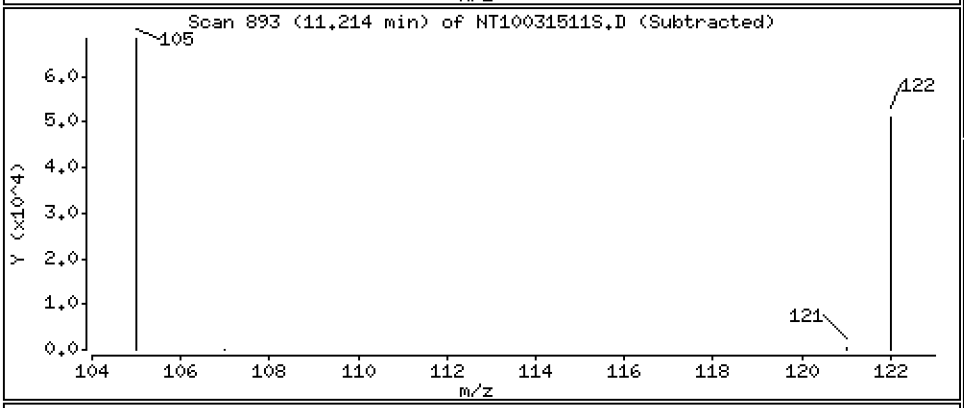
Column phase: ZB-5msi

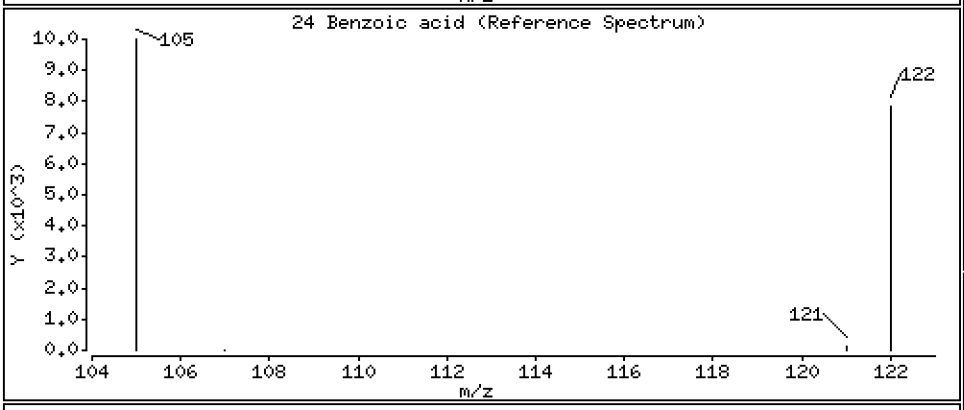
Column diameter: 0.25

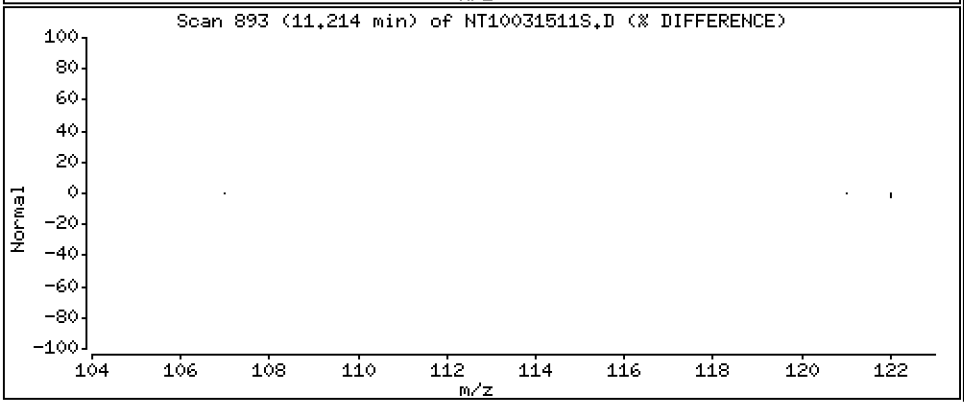
24 Benzoic acid

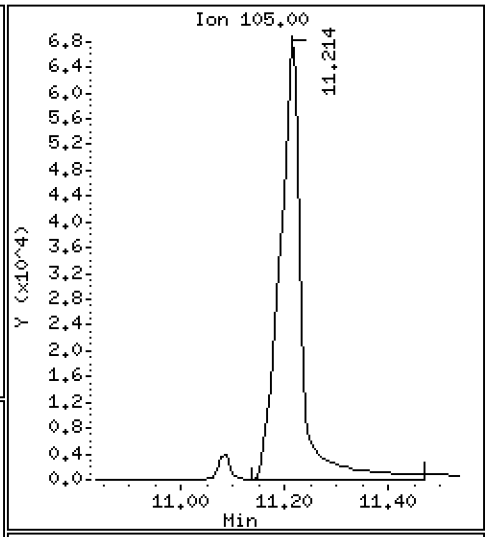
Concentration: 6.746 ug/L

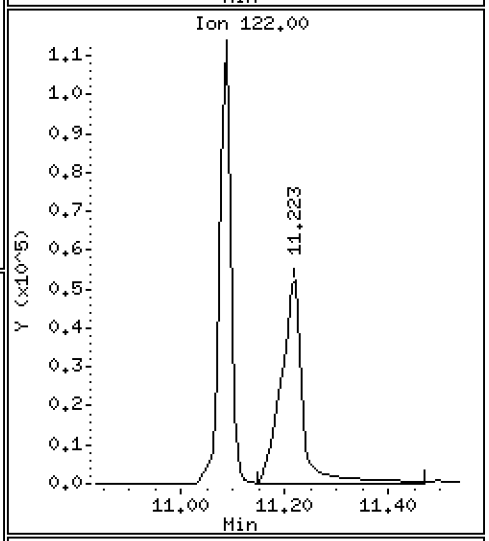


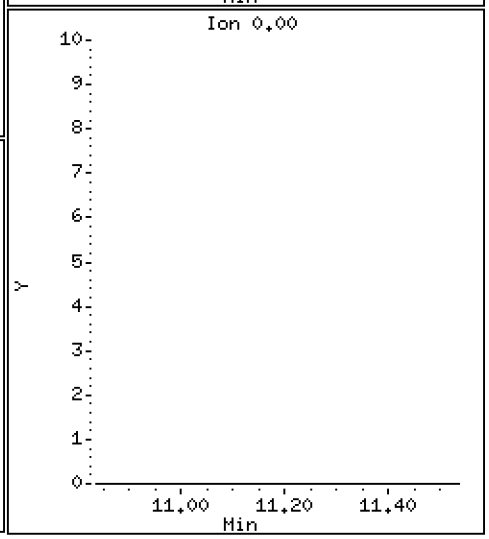












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

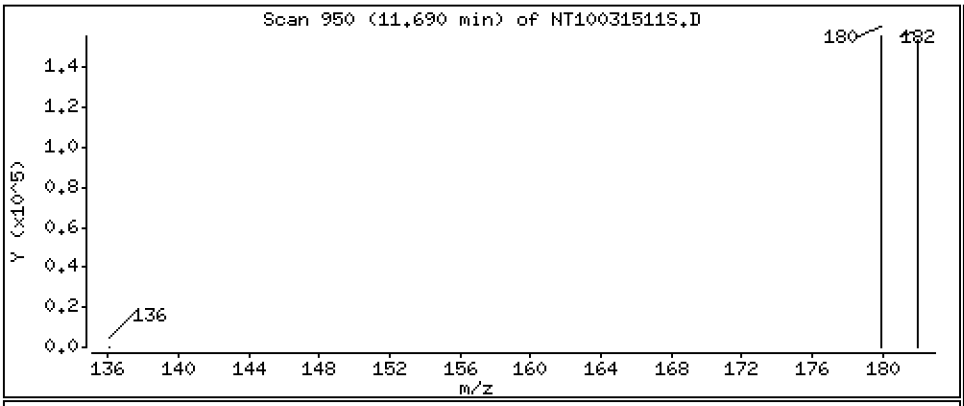
Operator: JGR

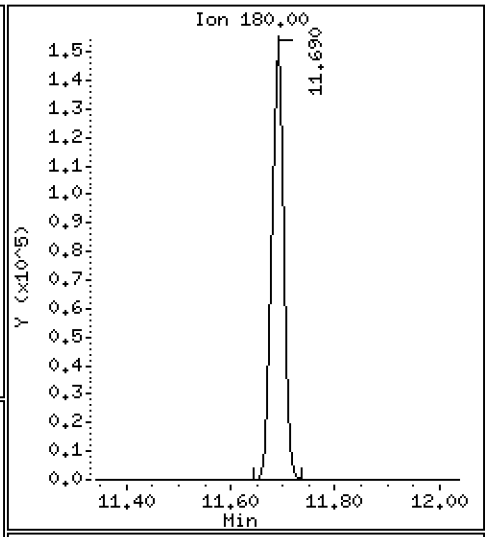
Column phase: ZB-5msi

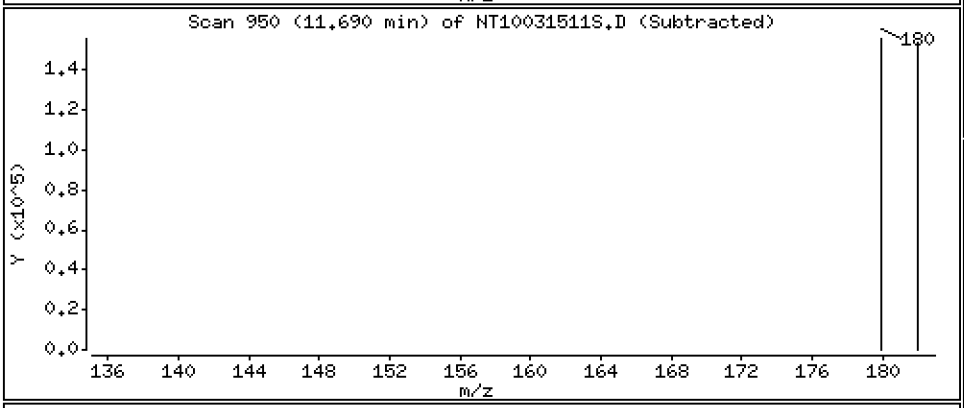
Column diameter: 0.25

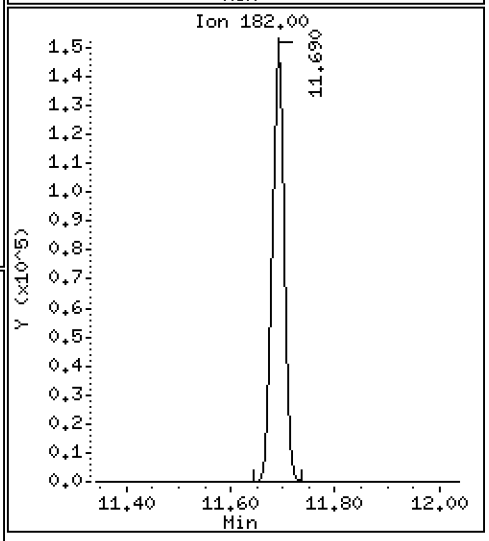
26 1,2,4-Trichlorobenzene

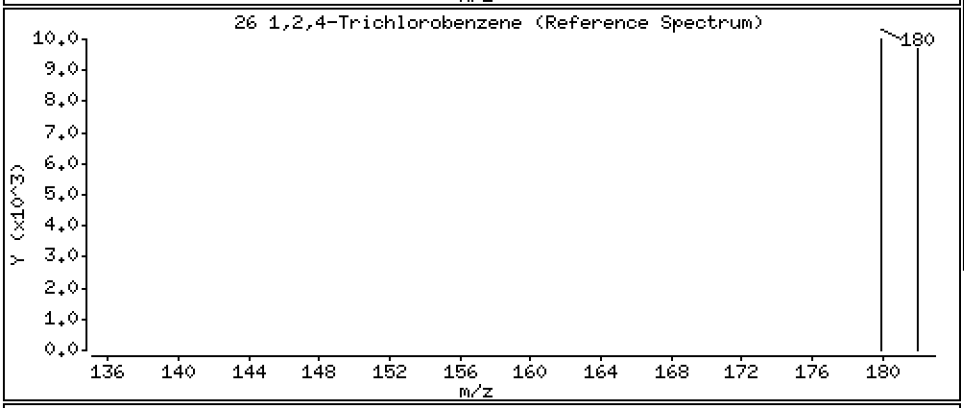
Concentration: 4.445 ug/L

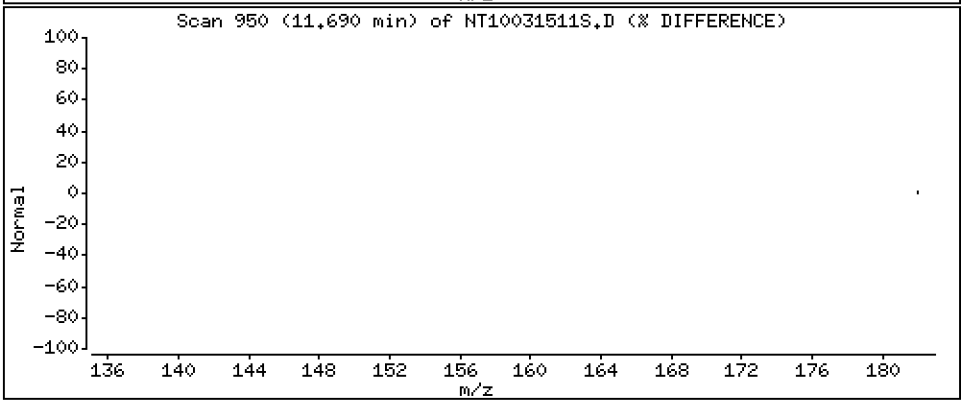












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

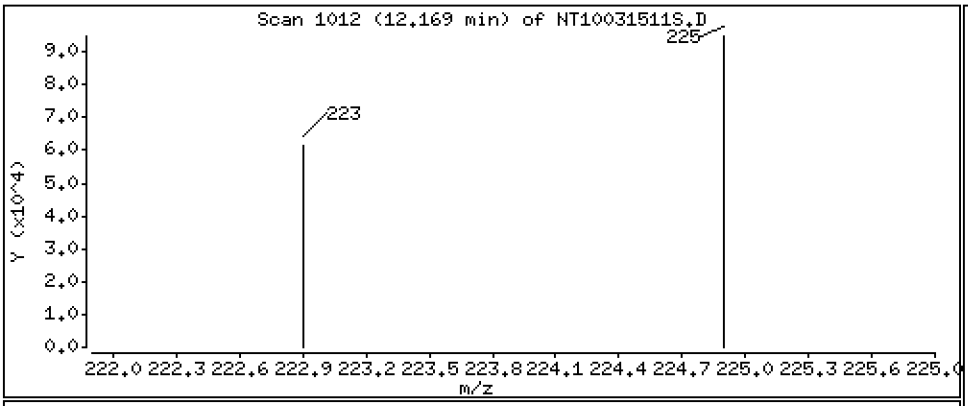
Operator: JGR

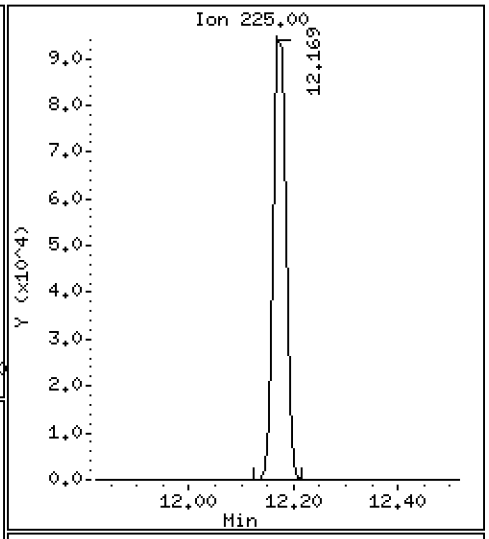
Column phase: ZB-5msi

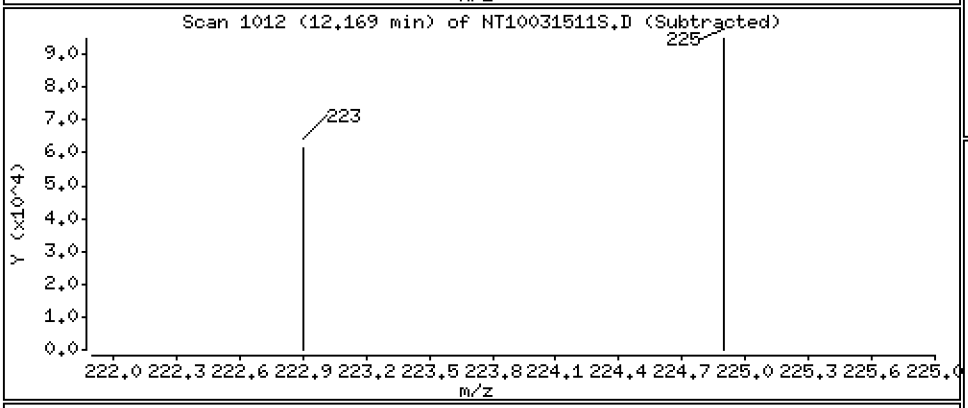
Column diameter: 0.25

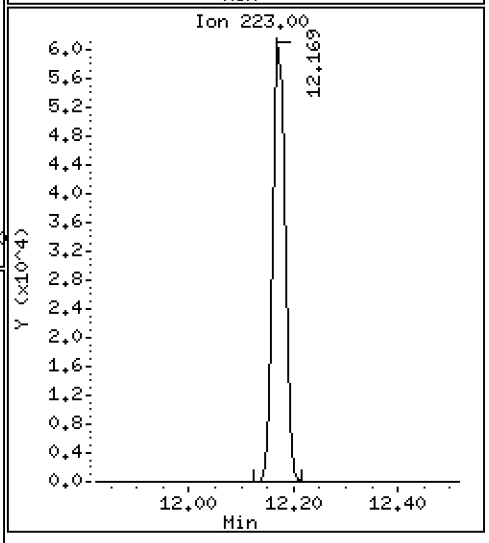
30 Hexachlorobutadiene

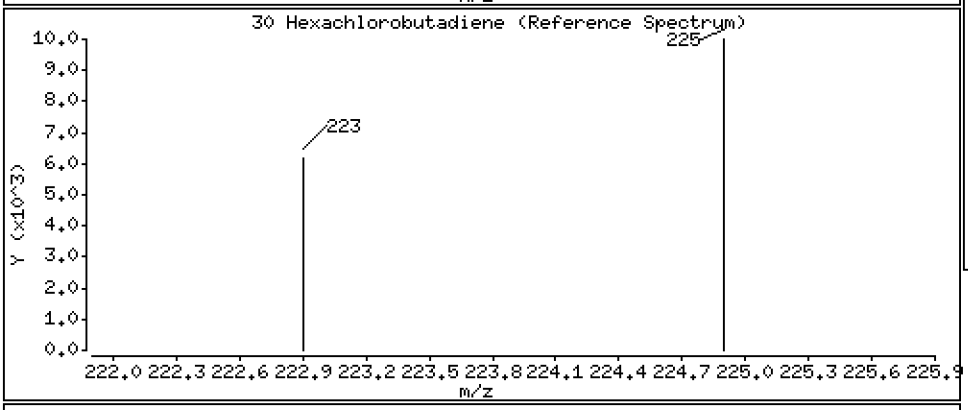
Concentration: 4.653 ug/L

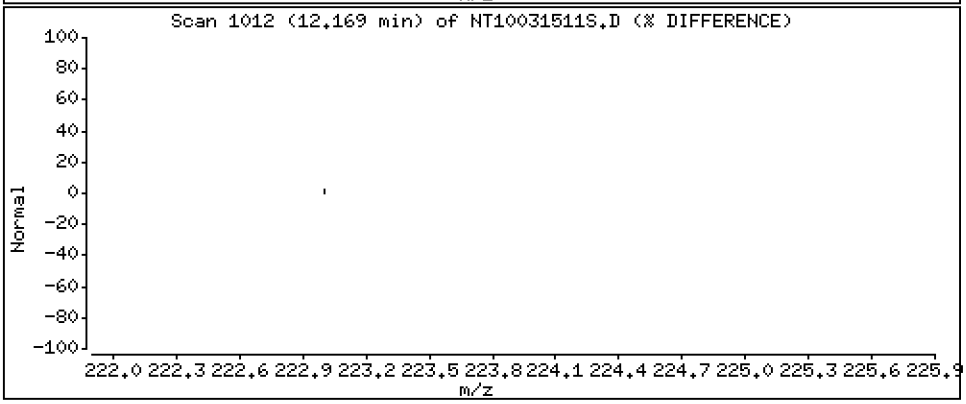












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

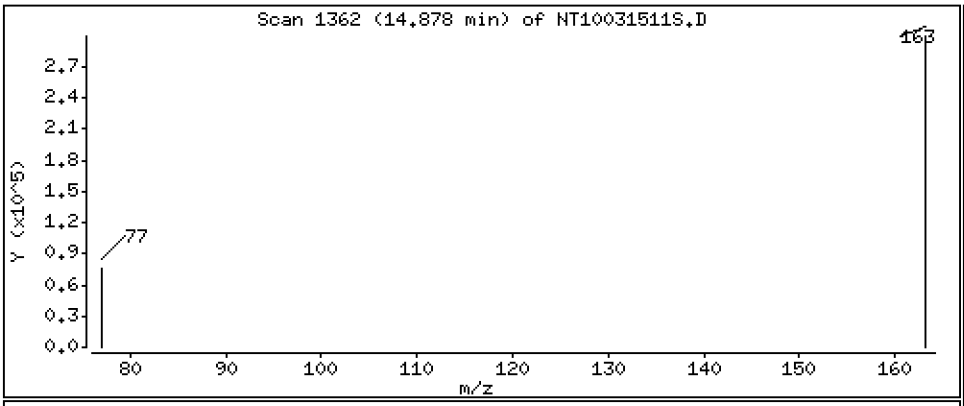
Operator: JGR

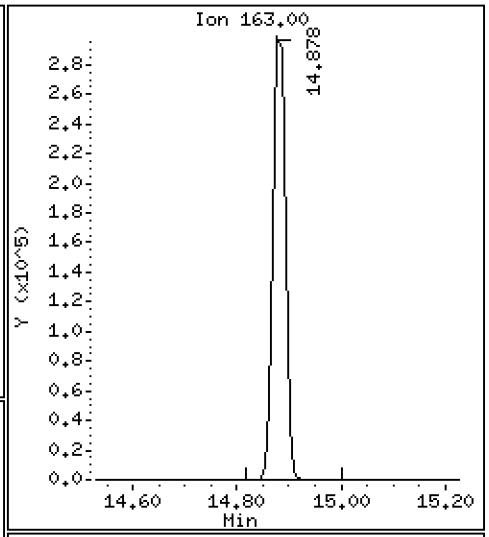
Column phase: ZB-5msi

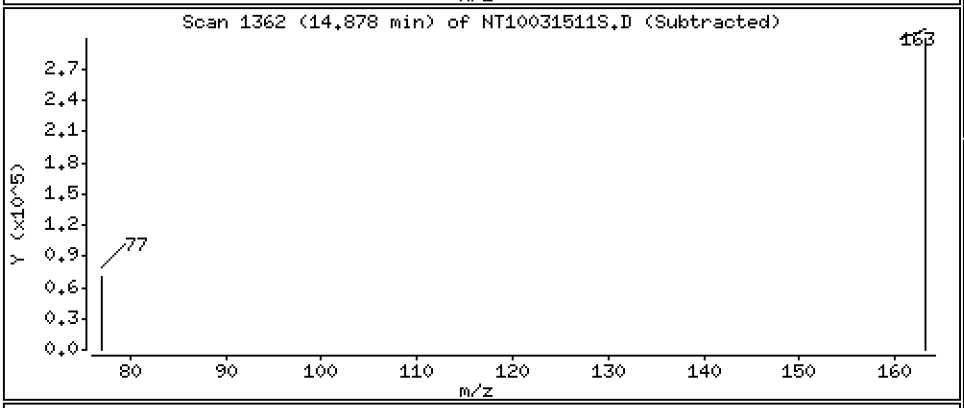
Column diameter: 0.25

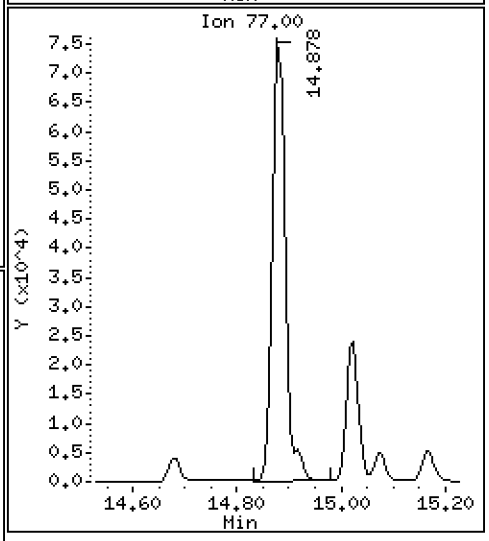
39 Dimethylphthalate

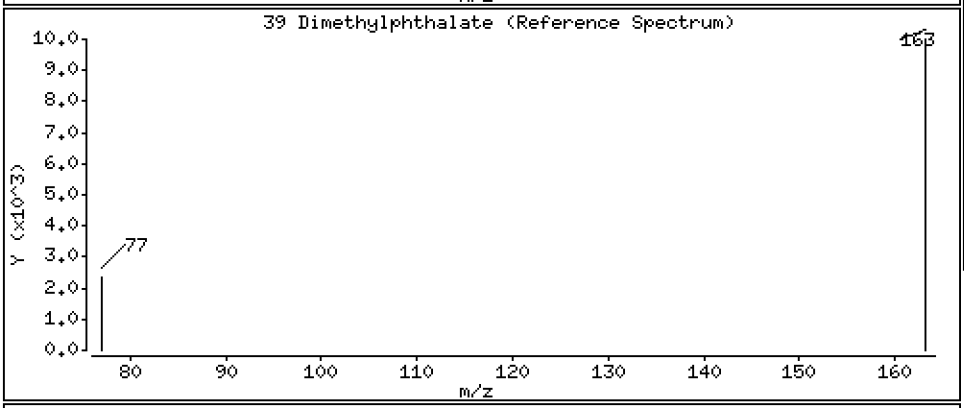
Concentration: 4.948 ug/L

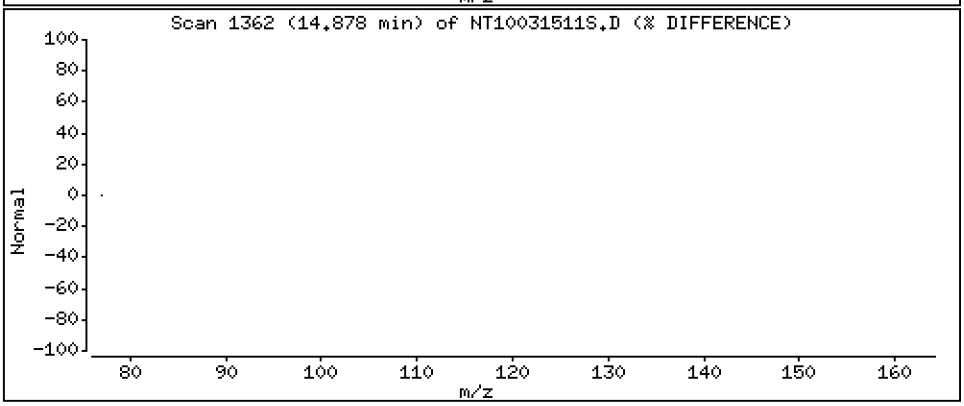












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

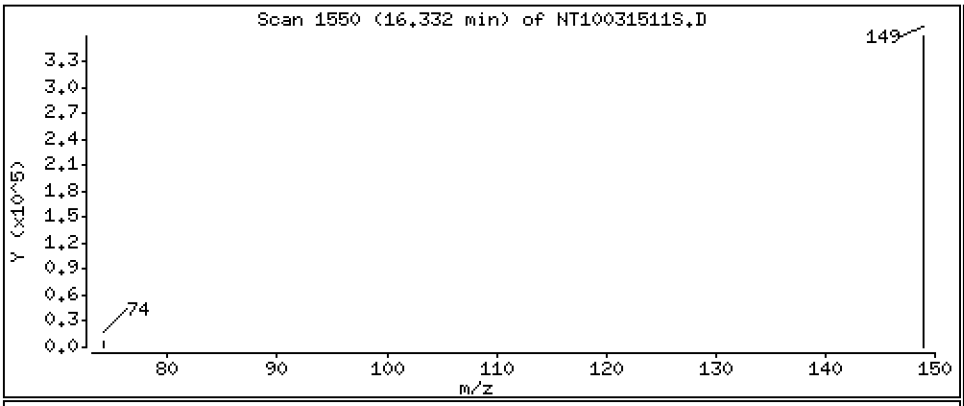
Operator: JGR

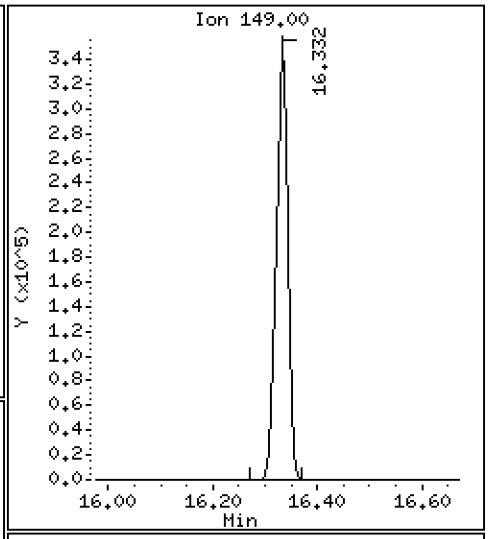
Column phase: ZB-5msi

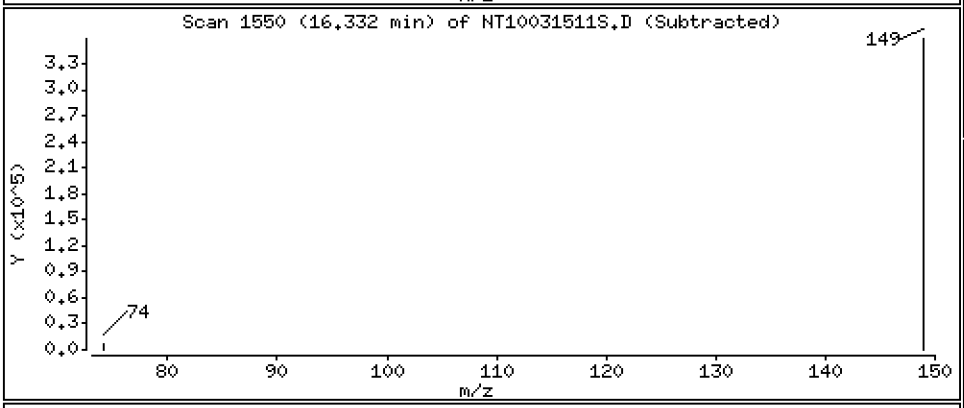
Column diameter: 0.25

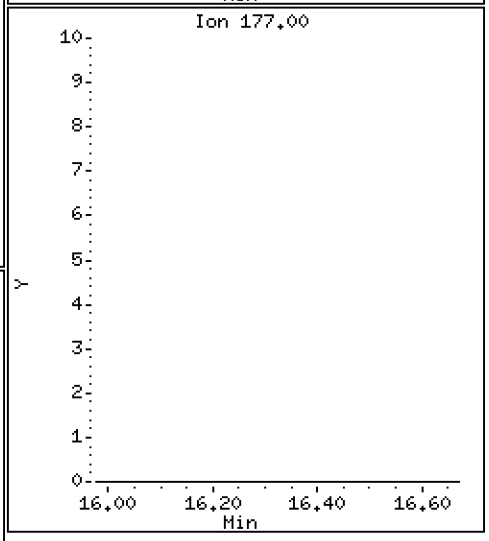
50 Diethylphthalate

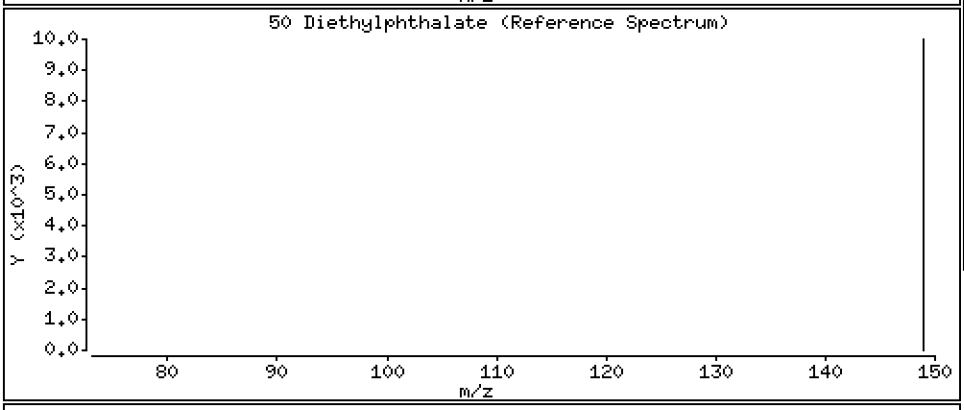
Concentration: 5.364 ug/L

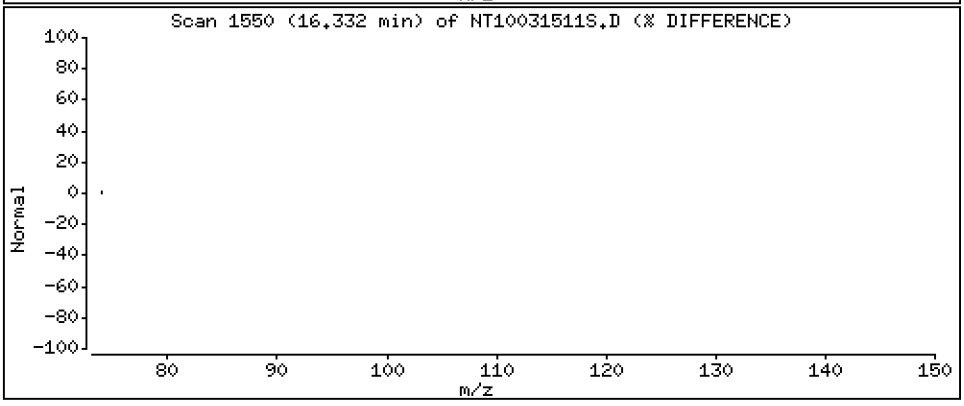












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

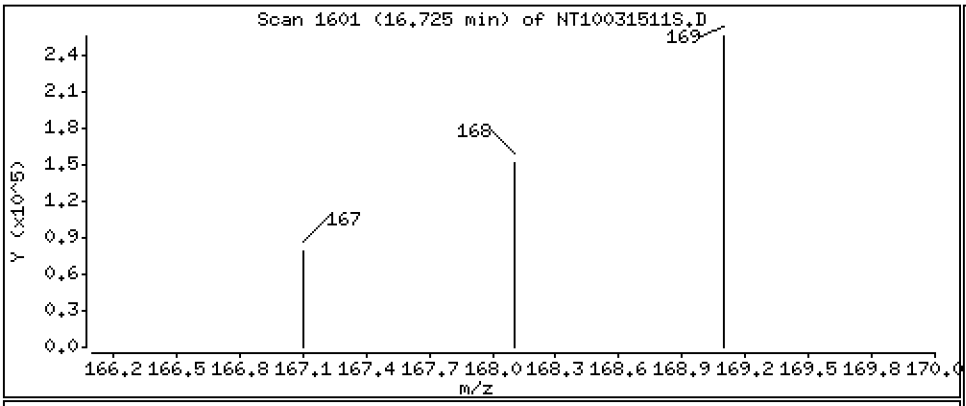
Operator: JGR

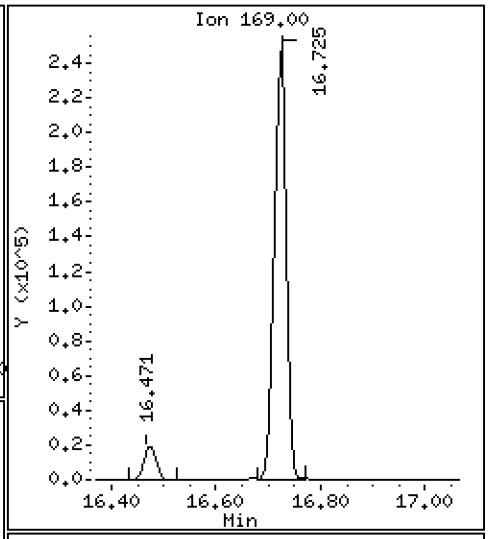
Column phase: ZB-5msi

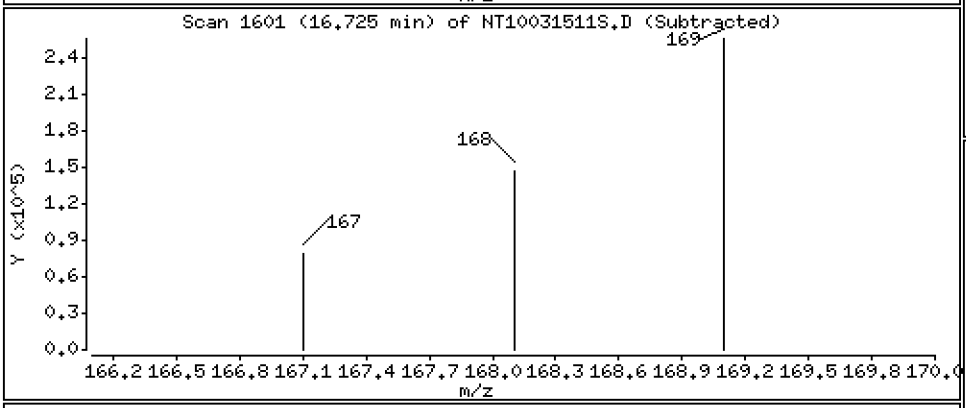
Column diameter: 0.25

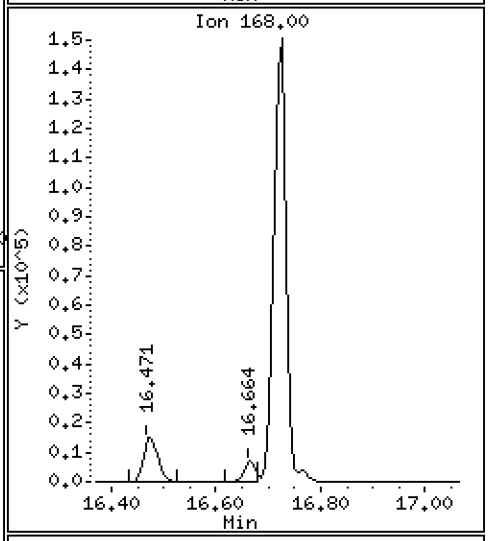
54 N-Nitrosodiphenylamine

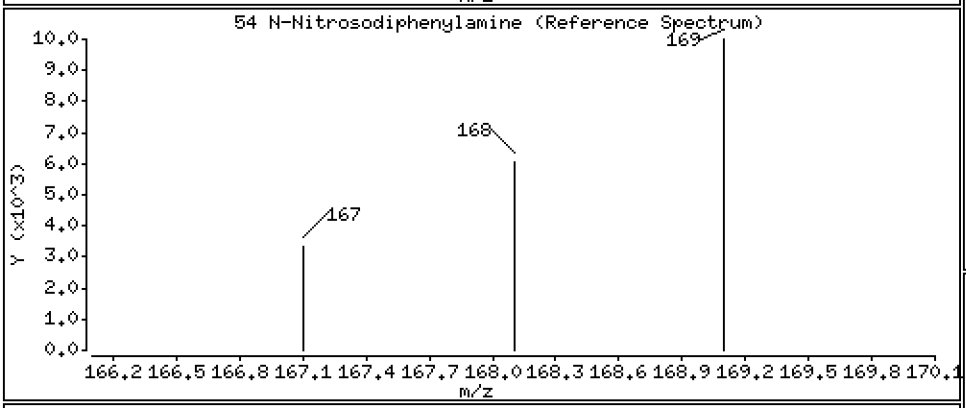
Concentration: 5.080 ug/L

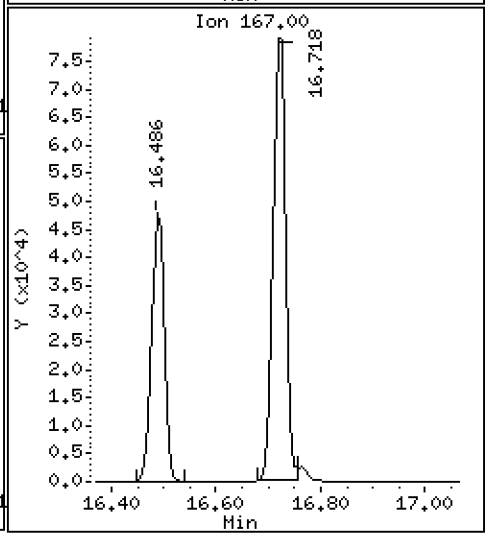


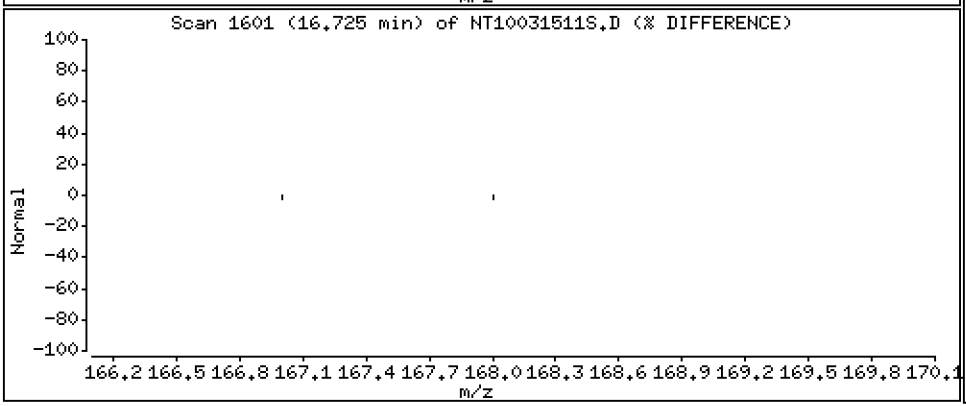












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

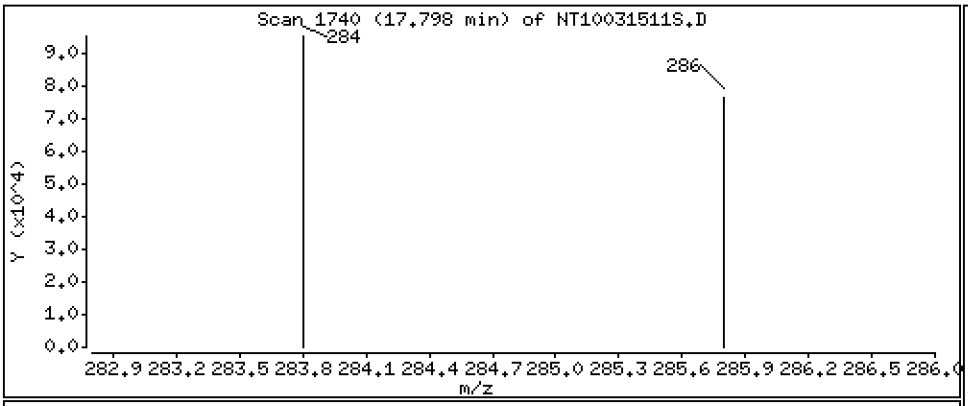
Operator: JGR

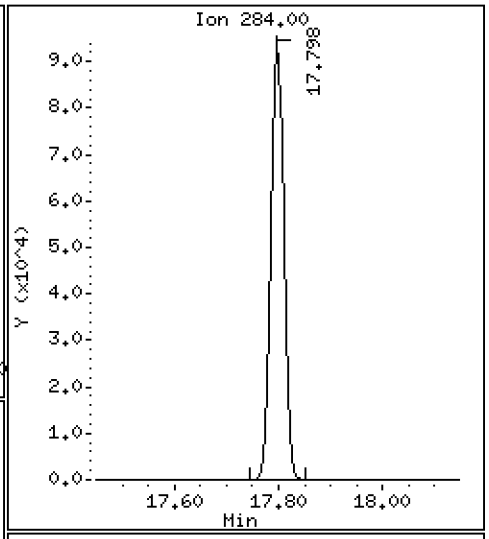
Column phase: ZB-5msi

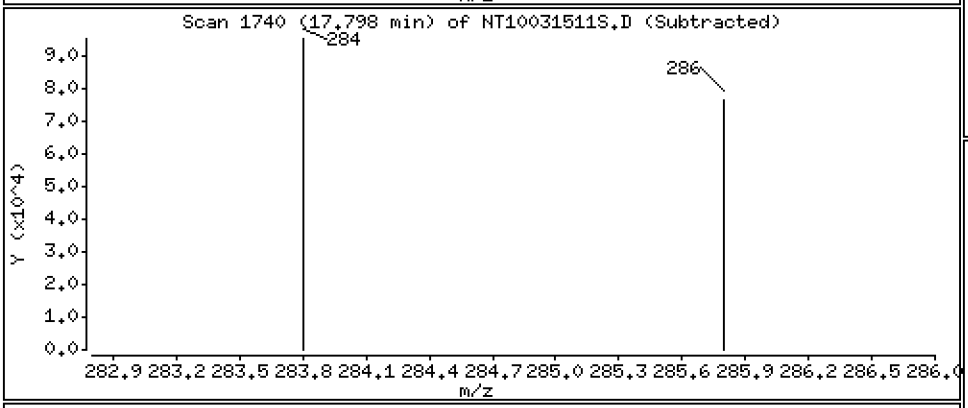
Column diameter: 0.25

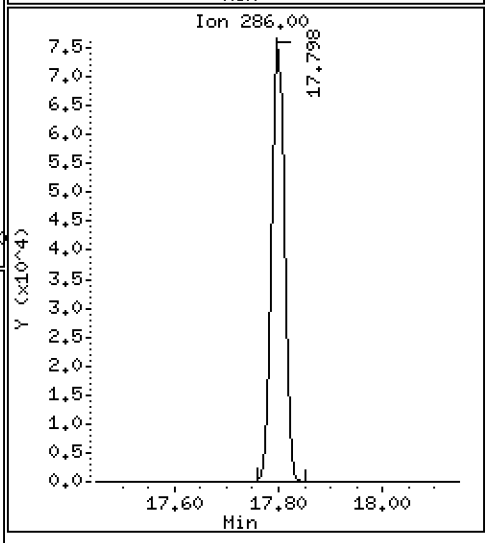
57 Hexachlorobenzene

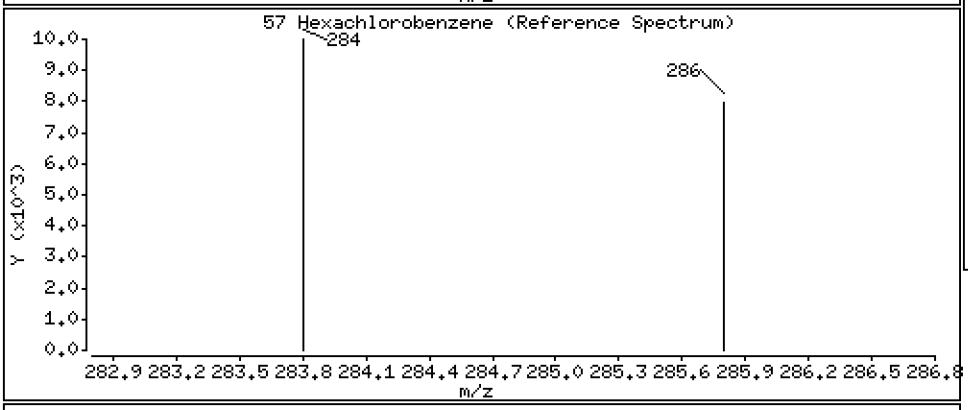
Concentration: 4.614 ug/L

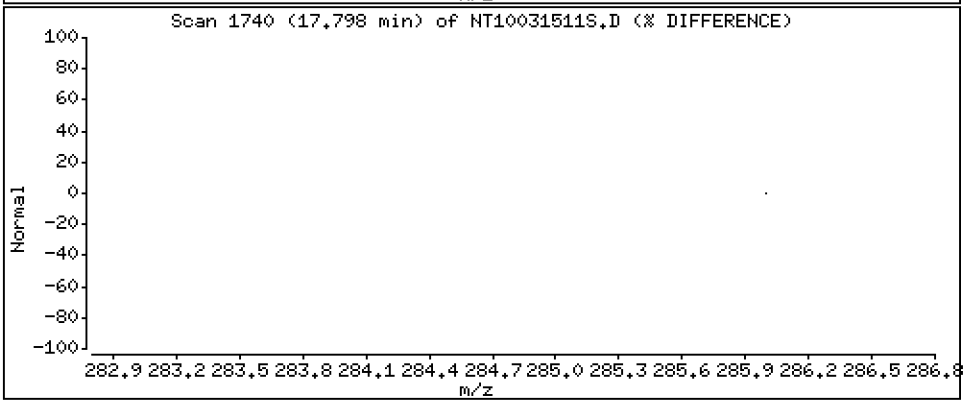












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

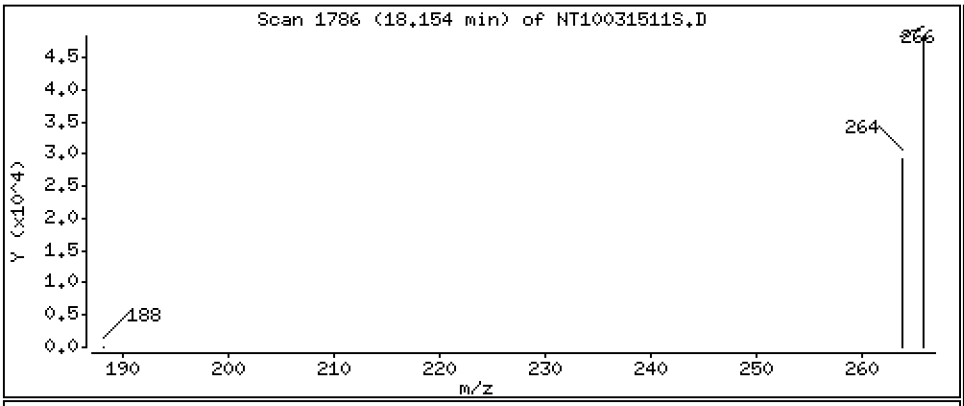
Operator: JGR

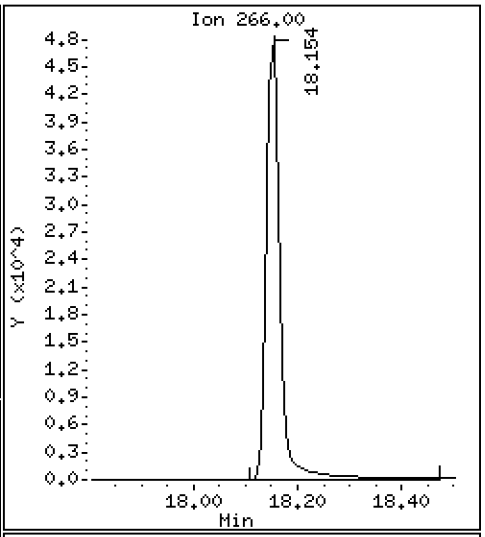
Column phase: ZB-5msi

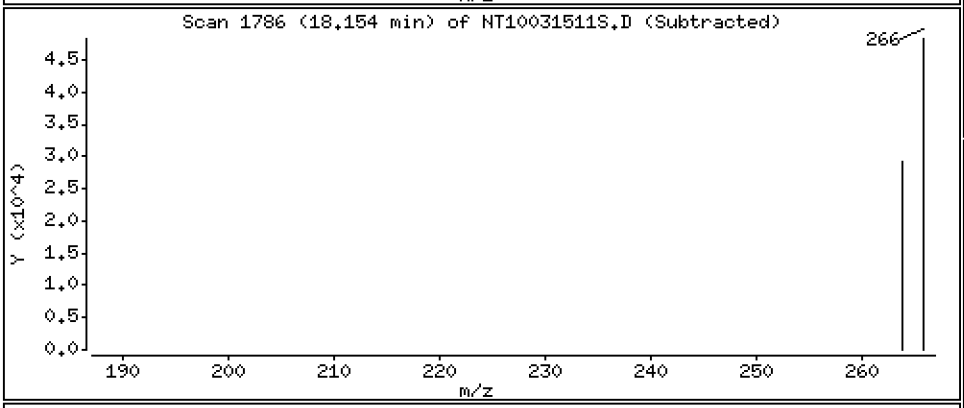
Column diameter: 0.25

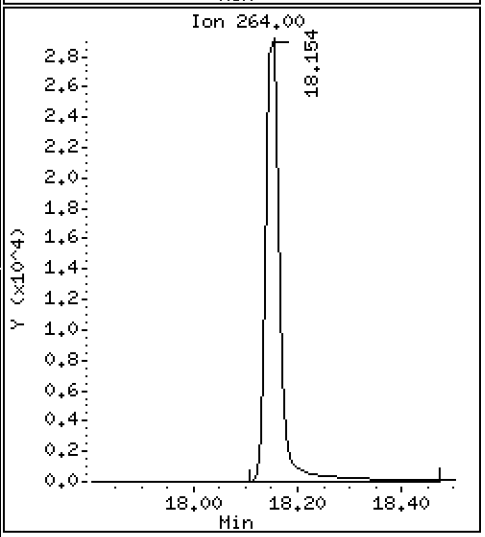
58 Pentachlorophenol

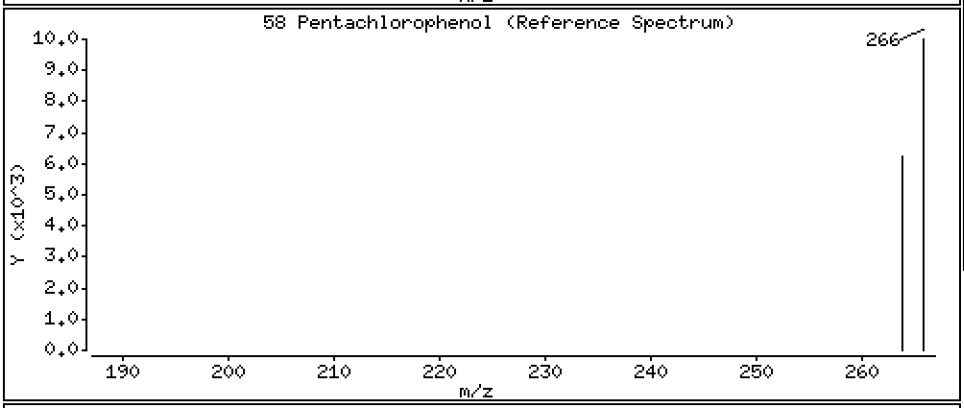
Concentration: 4.418 ug/L

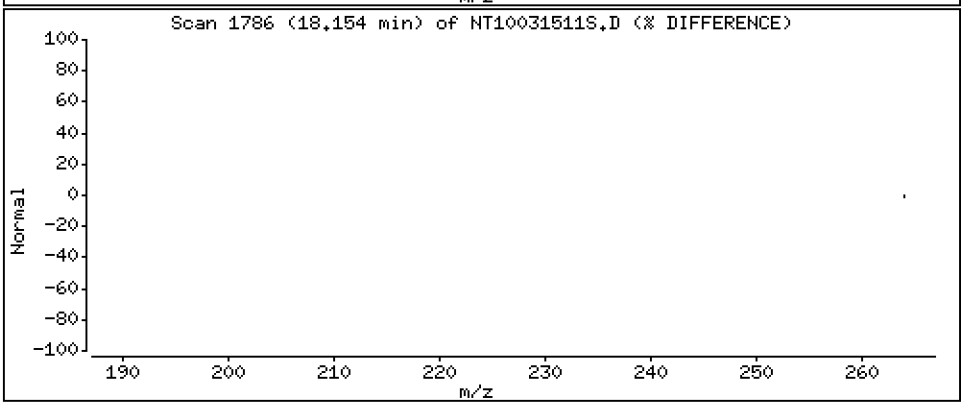












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

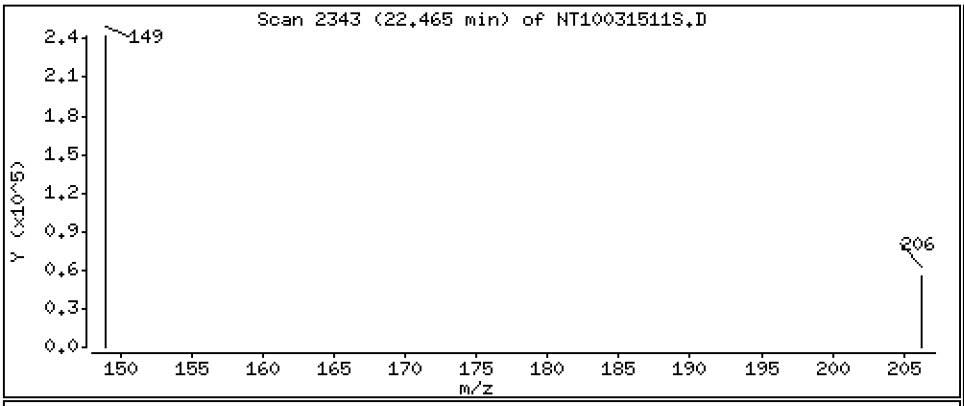
Operator: JGR

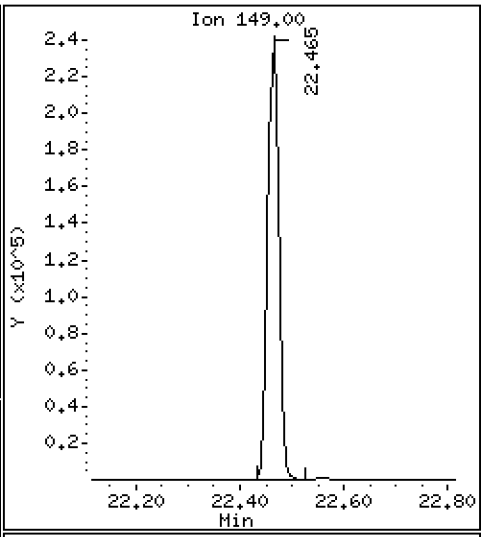
Column phase: ZB-5msi

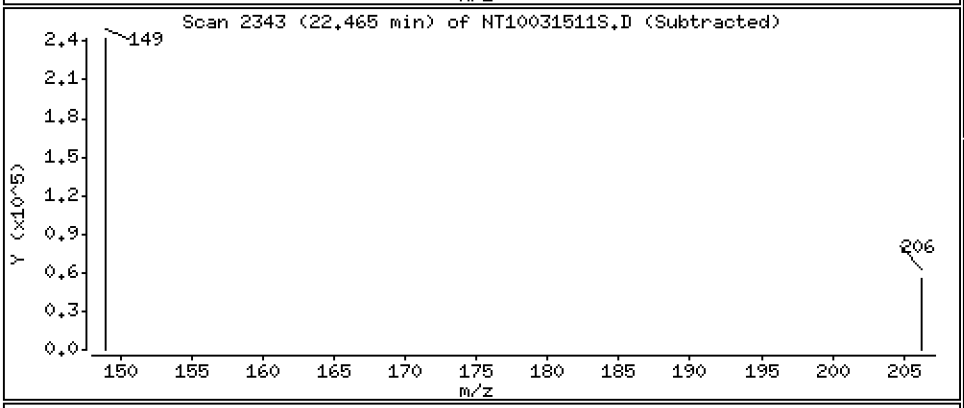
Column diameter: 0.25

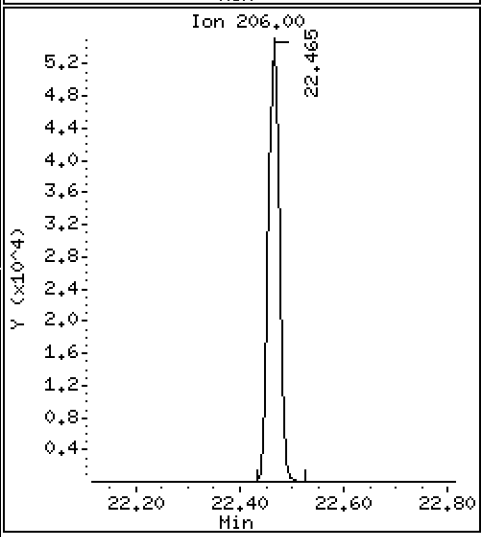
67 Butylbenzylphthalate

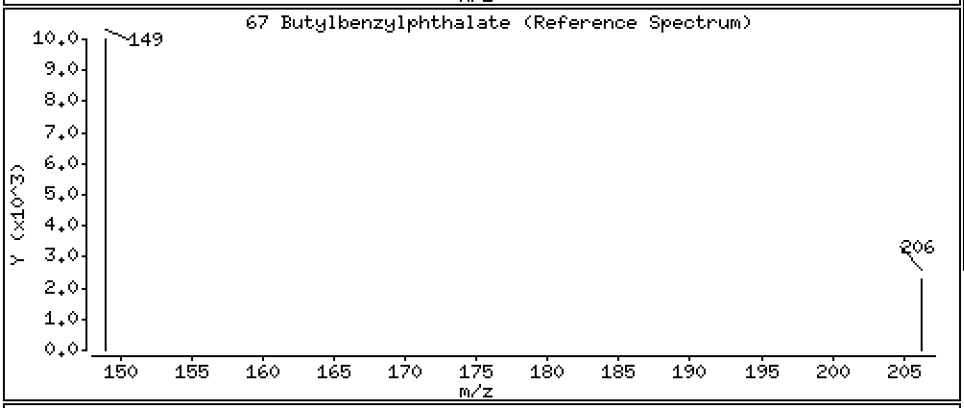
Concentration: 5.121 ug/L

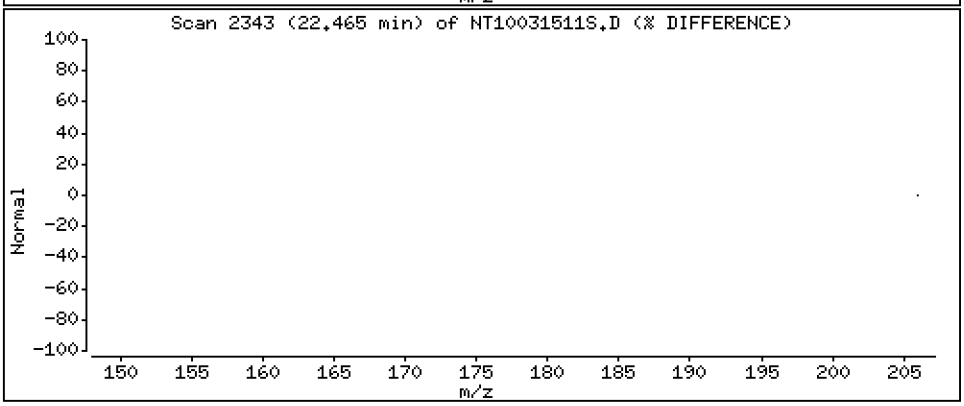












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

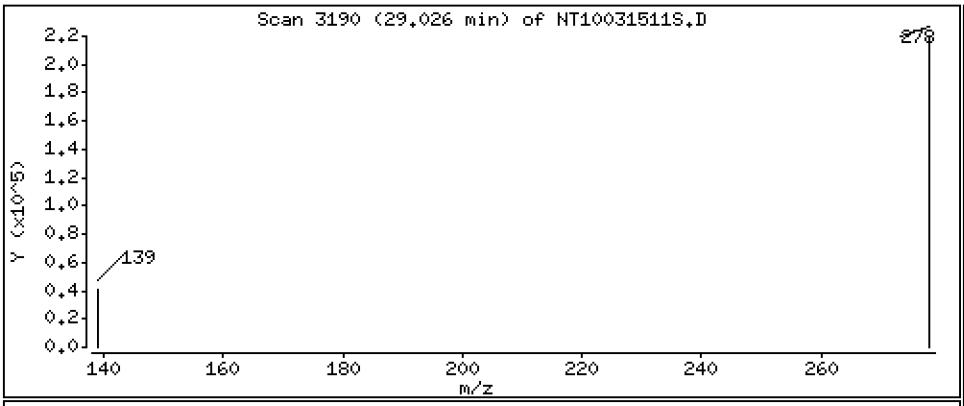
Operator: JGR

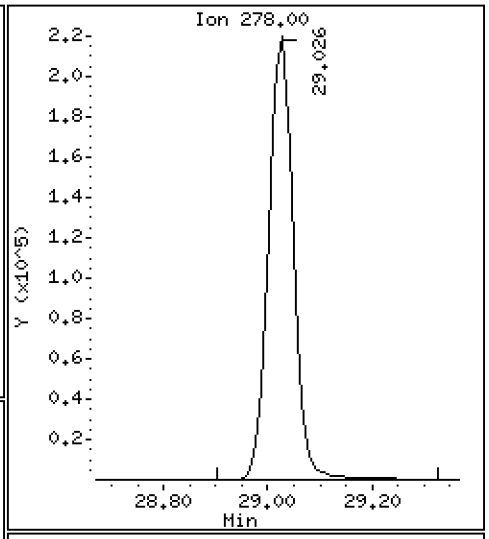
Column phase: ZB-5msi

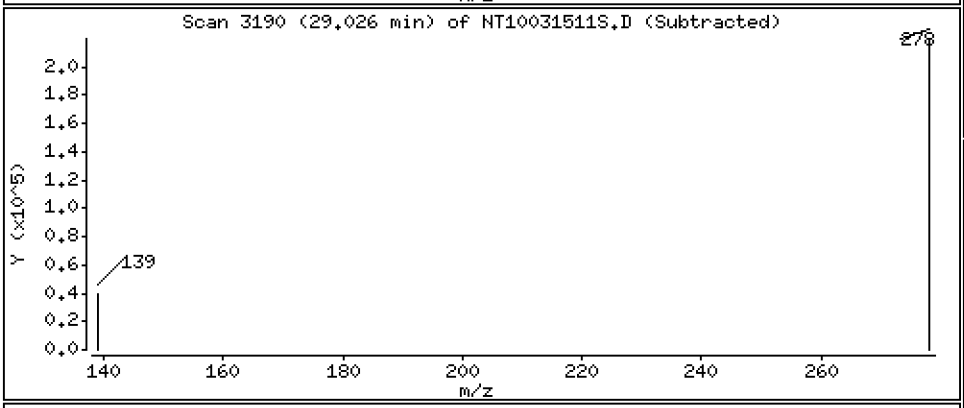
Column diameter: 0.25

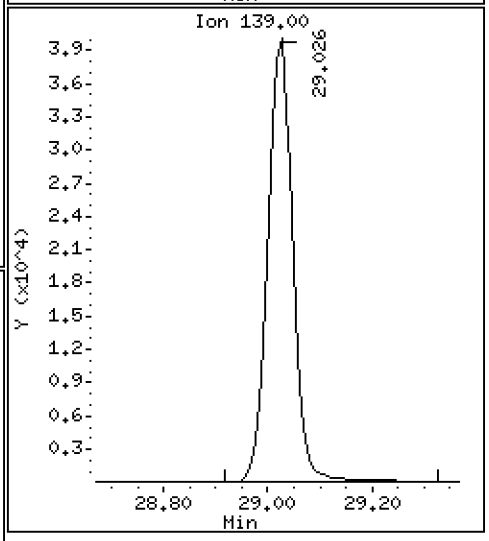
79 Dibenzo(a,h)anthracene

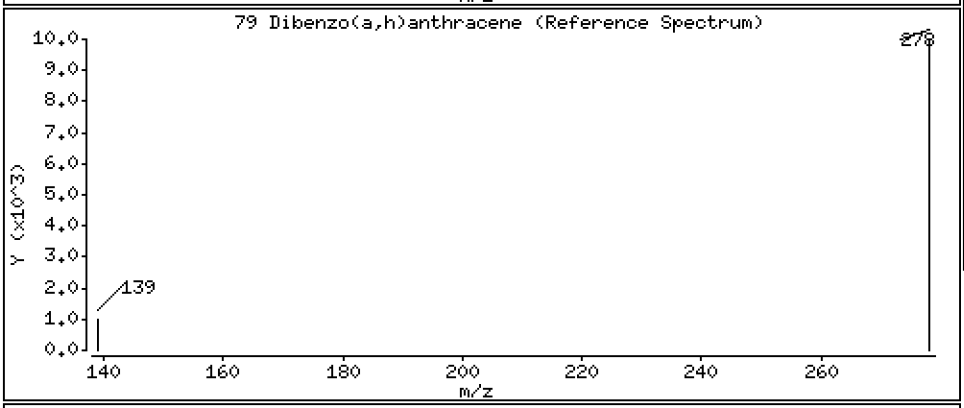
Concentration: 4.238 ug/L

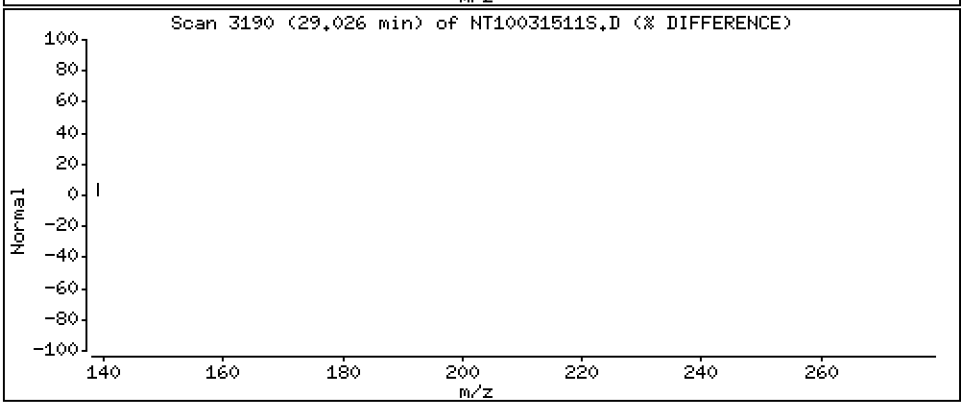












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

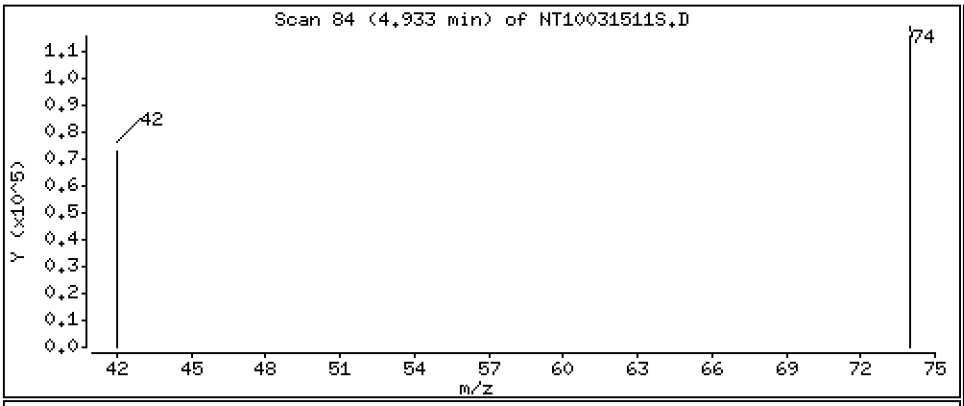
Operator: JGR

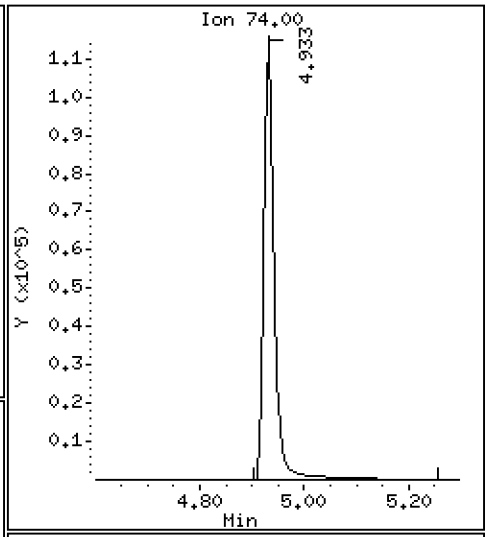
Column phase: ZB-5msi

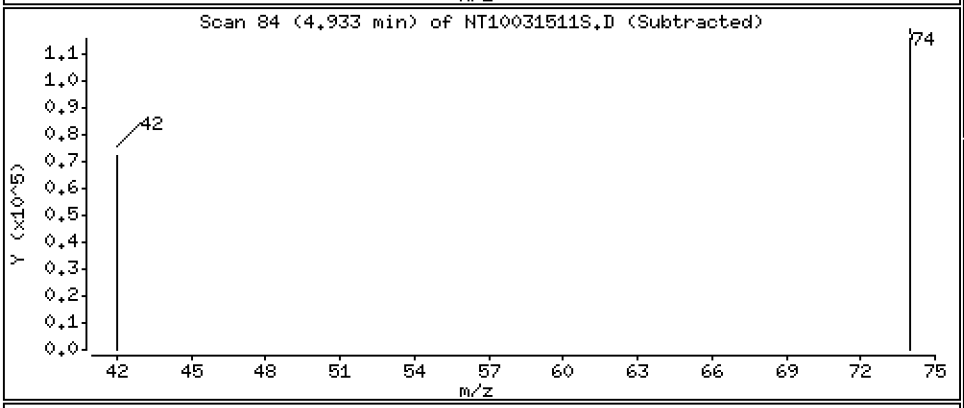
Column diameter: 0.25

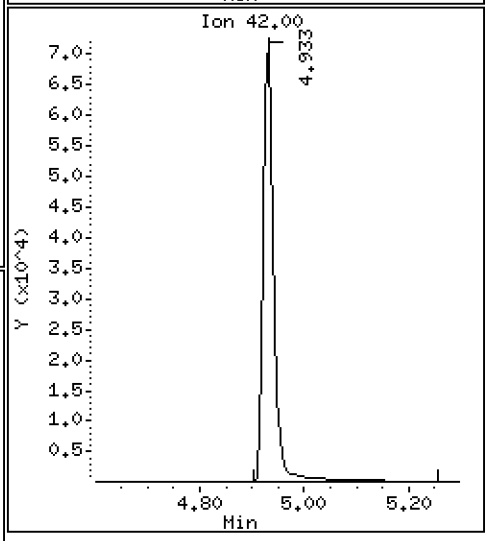
90 N-Nitrosodimethylamine

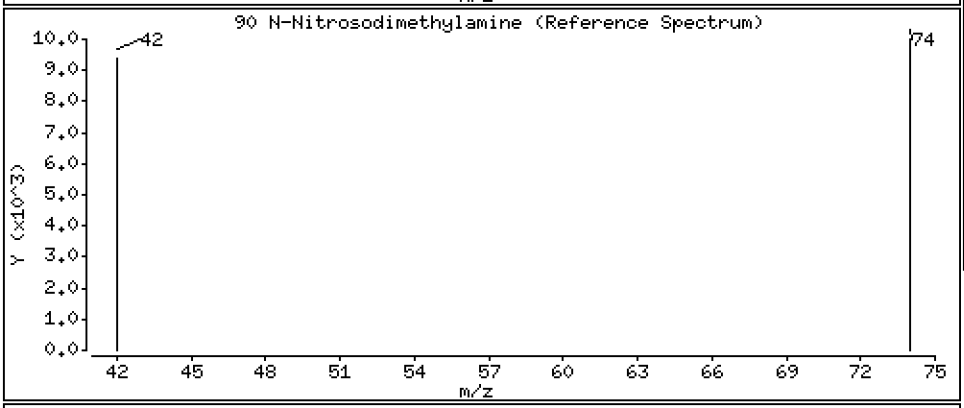
Concentration: 5.096 ug/L

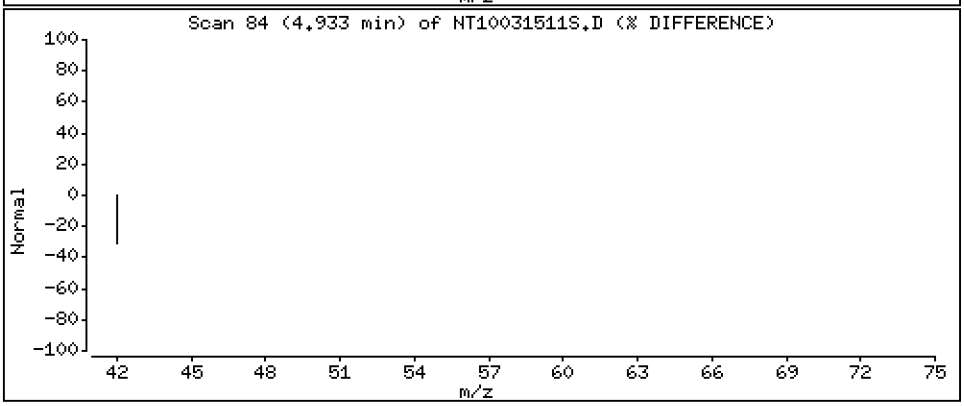












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D
Lab Smp Id: SLC0238-SCV1
Inj Date : 16-MAR-2023 02:16 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0238-SCV1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	Compound Not Detected.					
3	Phenol	94	8.664	8.664	(0.931)	303581	4.37299	4.373
7	1,3-Dichlorobenzene	146	9.236	9.236	(0.992)	301605	4.64290	4.643
* 8	1,4-Dichlorobenzene-d4	152	9.306	9.298	(1.000)	166866	4.00000	
9	1,4-Dichlorobenzene	146	9.329	9.329	(1.002)	303390	4.83813	4.838
11	Benzyl alcohol	79	9.562	9.570	(1.028)	208505	5.18071	5.181
12	1,2-Dichlorobenzene	146	9.686	9.686	(1.041)	288539	4.67875	4.679
13	2-Methylphenol	108	9.772	9.772	(1.050)	201888	4.19698	4.197
15	4-Methylphenol	108	10.043	10.036	(1.079)	223083	4.46301	4.463
16	N-Nitroso-di-n-propylamine	70	10.121	10.113	(1.088)	186707	5.28174	5.282
22	2,4-Dimethylphenol	107	11.086	11.087	(0.942)	193654	3.66015	3.660
24	Benzoic acid	105	11.214	11.189	(0.952)	200487	6.74612	6.746
26	1,2,4-Trichlorobenzene	180	11.690	11.690	(0.993)	236605	4.44540	4.445
* 27	Naphthalene-d8	136	11.775	11.775	(1.000)	612104	4.00000	
30	Hexachlorobutadiene	225	12.169	12.169	(1.033)	150581	4.65339	4.653
39	Dimethylphthalate	163	14.877	14.877	(0.967)	472341	4.94766	4.948
* 42	Acenaphthene-d10	162	15.388	15.380	(1.000)	302524	4.00000	
50	Diethylphthalate	149	16.331	16.324	(1.061)	530540	5.36440	5.364
54	N-Nitrosodiphenylamine	169	16.725	16.717	(0.908)	377357	5.08034	5.080
57	Hexachlorobenzene	284	17.798	17.798	(0.966)	153405	4.61353	4.614

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	18.154	18.154	(0.985)	83223	4.41780	4.418
*	59 Phenanthrene-d10	188	18.425	18.417	(1.000)	553619	4.00000	
$	66 Terphenyl-d14	244	21.543	21.543	(0.918)	117	0.00154	0.001543(RM)
	67 Butylbenzylphthalate	149	22.464	22.465	(0.958)	332887	5.12147	5.121
*	69 Chrysene-d12	240	23.455	23.455	(1.000)	465428	4.00000	
*	77 Perylene-d12	264	26.188	26.188	(1.000)	532593	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.026	29.019	(1.108)	722983	4.23762	4.238
	90 N-Nitrosodimethylamine	74	4.933	4.948	(0.530)	163555	5.09625	5.096

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031511S.D
Lab Smp Id: SLC0238-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 23:06
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	188081	94041	376162	166866	-11.28
27 Naphthalene-d8	674549	337275	1349098	612104	-9.26
42 Acenaphthene-d10	328275	164138	656550	302524	-7.84
59 Phenanthrene-d10	597140	298570	1194280	553619	-7.29
69 Chrysene-d12	466503	233252	933006	465428	-0.23
77 Perylene-d12	518203	259102	1036406	532593	2.78

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.31	0.08
27 Naphthalene-d8	11.77	11.27	12.27	11.78	0.01
42 Acenaphthene-d10	15.39	14.89	15.89	15.39	0.01
59 Phenanthrene-d10	18.42	17.92	18.92	18.43	0.00
69 Chrysene-d12	23.45	22.95	23.95	23.46	0.00
77 Perylene-d12	26.19	25.69	26.69	26.19	0.00

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

REVIEW SUMMARY FOR FILE - NT10031511S.D

Lab ID: SLC0238-SCV1
nt10.i, 20230315.b\20230315.b\SIMABN2.m,   16-MAR-2023 02:16

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.952	0.000	0.9524	Benzoic acid

RRT check based on Ccal File: 20230315.b/NT10031510S.D

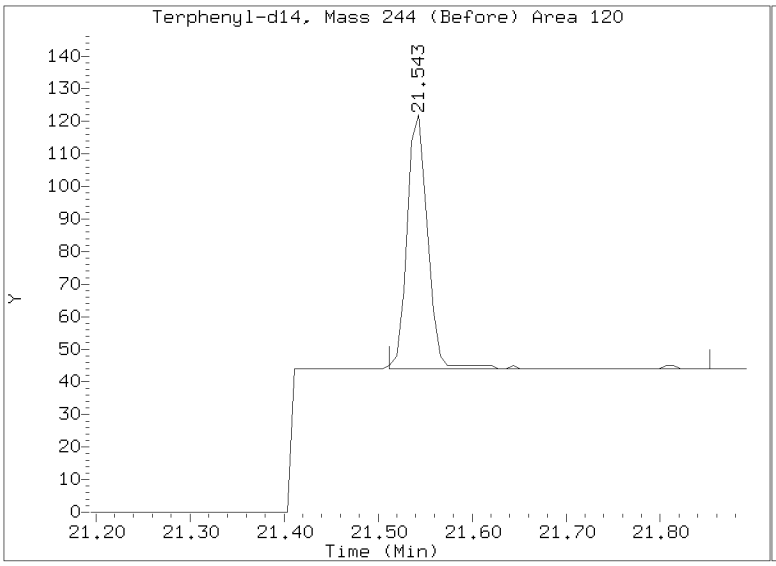
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

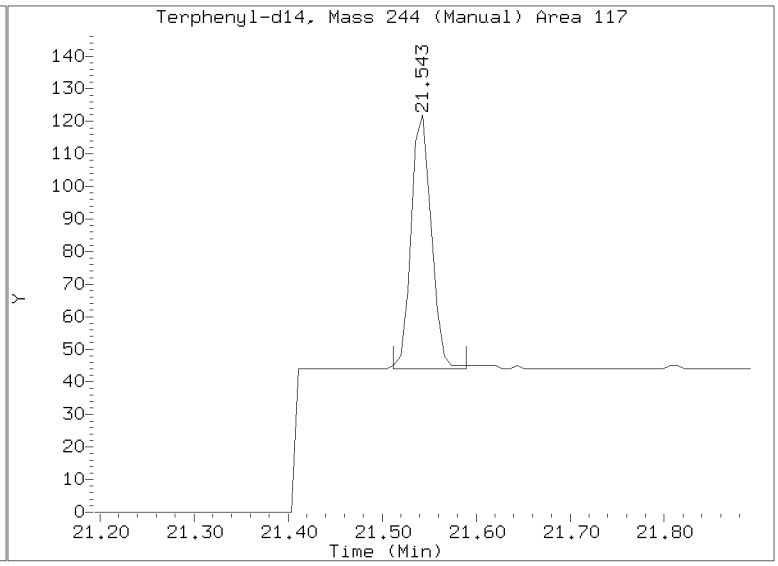
Exception: 1,2,4-Trichlorobenzene 0.0010

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031511S.D
Injection Date: 16-MAR-2023 02:16
Lab ID:SLC0238-SCV1 Client ID:
Report Date: 03/16/2023 14:49





Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GC00049
Lab File ID:	NT1004192335SB.D	Calibration Date:	03/15/2023
Sequence:	SLD0302	Injection Date:	04/20/23
Lab Sample ID:	SLD0302-ICV1	Injection Time:	08:57
Sequence Name:	Initial Cal Check		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
1,4-Dichlorobenzene	A	1.0000	0.9	1.5031980	1.4269610		-5.1	+/-20	
1,2-Dichlorobenzene	A	1.0000	0.9	1.4783140	1.3921		-5.8	+/-20	
Benzyl Alcohol	A	1.0000	0.9	0.9647610	0.8830614		-8.5	+/-20	
Benzoic acid	A	4.0000	2.9	0.1358970	0.1369262		-28.4	+/-20	*
2,4-Dimethylphenol	A	2.0000	2.0	0.3457498	0.3404570		-1.6	+/-20	
1,2,4-Trichlorobenzene	A	1.0000	1.0	0.3478148	0.3382551		-2.8	+/-20	
N-Nitrosodiphenylamine	A	1.0000	1.0	0.5366720	0.5223797		-2.7	+/-20	
Pentachlorophenol	A	2.0000	1.6	0.0934250	0.1064047		-20.5	+/-20	*
2-Fluorophenol	A	1.5000	1.35	1.2129820	1.0889220		-10.2	+/-20	
p-Terphenyl-d14	A	1.0000	0.784	0.6517430	0.5110734		-21.6	+/-20	*
1,4-Dichlorobenzene-d4	A	4.0000	4.0	46867.7500	1.0000		0.0		
Naphthalene-d8	A	4.0000	4.0	167312.2000	1.0000		0.0		
Acenaphthene-d10	A	4.0000	4.0	81972.4400	1.0000		0.0		
Phenanthrene-d10	A	4.0000	4.0	150166.2000	1.0000		0.0		
Chrysene-d12	A	4.0000	4.0	110890.6000	1.0000		0.0		
Perylene-d12	A	4.0000	4.0	124876.5000	1.0000		0.0		

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192335SB.D

Date : 20-APR-2023 08:57

Client ID:

Instrument: nt10.i

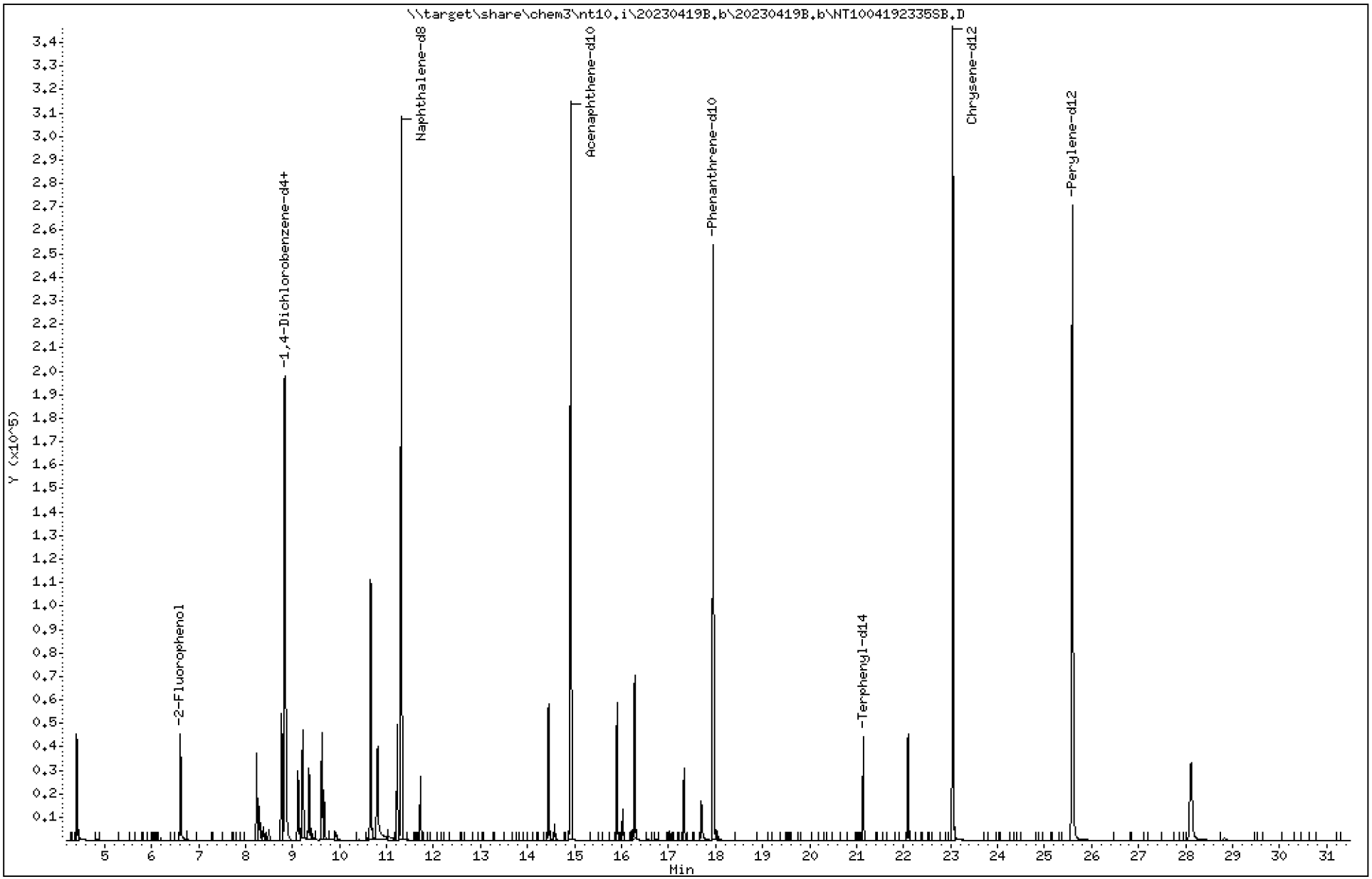
Sample Info: SLD0302-ICV1

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192335SB.D
Lab Smp Id: SLD0302-ICV1
Inj Date : 20-APR-2023 08:57 MS Autotune Date: 16-JAN-2023 17:42
Operator : DSD Inst ID: nt10.i
Smp Info : SLD0302-ICV1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\SIMABN2.m
Meth Date : 21-Apr-2023 13:41 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.617	6.617	(0.749)	52383	1.50000	1.347
	3 Phenol	94	8.240	8.240	(0.933)	46682	1.00000	0.8747
	7 1,3-Dichlorobenzene	146	8.766	8.766	(0.992)	46935	1.00000	0.9398
*	8 1,4-Dichlorobenzene-d4	152	8.835	8.835	(1.000)	128281	4.00000	
	9 1,4-Dichlorobenzene	146	8.859	8.859	(1.003)	45763	1.00000	0.9493
	11 Benzyl alcohol	79	9.115	9.115	(1.032)	28320	1.00000	0.9153
	12 1,2-Dichlorobenzene	146	9.216	9.216	(1.043)	44645	1.00000	0.9417
	13 2-Methylphenol	108	9.348	9.348	(1.058)	34876	1.00000	0.9431
	15 4-Methylphenol	108	9.627	9.627	(1.090)	36177	1.00000	0.9415
	16 N-Nitroso-di-n-propylamine	70	9.674	9.674	(1.095)	24017	1.00000	0.8838
	22 2,4-Dimethylphenol	107	10.656	10.656	(0.942)	78085	2.00000	1.969
	24 Benzoic acid	105	10.809	10.809	(0.956)	62809	4.00000	2.866
	26 1,2,4-Trichlorobenzene	180	11.227	11.227	(0.992)	38790	1.00000	0.9725
*	27 Naphthalene-d8	136	11.312	11.312	(1.000)	458707	4.00000	
	30 Hexachlorobutadiene	225	11.721	11.721	(1.036)	25338	1.00000	1.045
	39 Dimethylphthalate	163	14.446	14.446	(0.968)	78719	1.00000	1.025
*	42 Acenaphthene-d10	162	14.918	14.918	(1.000)	243296	4.00000	
	50 Diethylphthalate	149	15.900	15.900	(1.066)	83239	1.00000	1.047
	54 N-Nitrosodiphenylamine	169	16.278	16.278	(0.907)	56659	1.00000	0.9734
	57 Hexachlorobenzene	284	17.327	17.327	(0.965)	30153	1.00000	1.157

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	58 Pentachlorophenol	266	17.699	17.699	(0.986)	23082	2.00000	1.590
*	59 Phenanthrene-d10	188	17.947	17.947	(1.000)	433853	4.00000	
$	66 Terphenyl-d14	244	21.142	21.142	(0.917)	55632	1.00000	0.7842
	67 Butylbenzylphthalate	149	22.094	22.094	(0.959)	55240	1.00000	0.9554
*	69 Chrysene-d12	240	23.047	23.047	(1.000)	435413	4.00000	
*	77 Perylene-d12	264	25.594	25.594	(1.000)	490854	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.113	28.113	(1.098)	111941	1.00000	0.6974
	90 N-Nitrosodimethylamine	74	4.408	4.408	(0.499)	40528	2.00000	1.643

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 15-MAR-2023
Lab File ID: NT1004192335SB.D Calibration Time: 23:06
Lab Smp Id: SLD0302-ICV1
Analysis Type: SV Level: LOW
Quant Type: ISTD Sample Type: AIR
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\SIMABN2.m
Misc Info:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	154021	77011	308042	128281	-16.71
27 Naphthalene-d8	550458	275229	1100916	458707	-16.67
42 Acenaphthene-d10	294195	147098	588390	243296	-17.30
59 Phenanthrene-d10	508863	254432	1017726	433853	-14.74
69 Chrysene-d12	482651	241326	965302	435413	-9.79
77 Perylene-d12	560068	280034	1120136	490854	-12.36

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.83	8.33	9.33	8.84	0.09
27 Naphthalene-d8	11.30	10.80	11.80	11.31	0.07
42 Acenaphthene-d10	14.91	14.41	15.41	14.92	0.05
59 Phenanthrene-d10	17.94	17.44	18.44	17.95	0.04
69 Chrysene-d12	23.04	22.54	23.54	23.05	0.03
77 Perylene-d12	25.59	25.09	26.09	25.59	0.03

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

REVIEW SUMMARY FOR FILE - NT1004192335SB.D

Lab ID: SLD0302-ICV1
nt10.i, 20230419B.b\20230419B.b\SIMABN2.m,   20-APR-2023 08:57

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check. Ccal file.

On Column LOD for nt10.i, 20230419B.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230419B.b\20230419B

Instrument: nt10.i Date: 20-APR-2023 Method: 20230419B.b\SIMABN2.m

INITIAL CAL: 15-MAR-2023

Compound	%RSD or R^2
NO Q-FLAGS	

ICV CAL: NT1004192335SB.D 20-APR-2023 08:57

Compound	%D
Benzoic acid	-28.4
Pentachlorophenol	-20.5
Dibenzo(a,h)anthracene	-30.3
Terphenyl-d14	-21.6

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GC00049
Lab File ID:	NT10031511S.D	Calibration Date:	03/15/2023
Sequence:	SLC0238	Injection Date:	03/16/23
Lab Sample ID:	SLC0238-SCV1	Injection Time:	02:16
Sequence Name:	SCV 5.0		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
1,4-Dichlorobenzene	A	5.0000	4.8	1.5031980	1.4545320		-3.2	+/-20	
1,2-Dichlorobenzene	A	5.0000	4.7	1.4783140	1.3833330		-6.4	+/-20	
Benzyl Alcohol	A	5.0000	5.2	0.9647610	0.9996284		3.6	+/-20	
Benzoic acid	A	10.000	6.7	0.1358970	0.1310150		-32.5	+/-20	*
2,4-Dimethylphenol	A	5.0000	3.7	0.3457498	0.2530995		-26.8	+/-20	*
1,2,4-Trichlorobenzene	A	5.0000	4.4	0.3478148	0.3092350		-11.1	+/-20	
N-Nitrosodiphenylamine	A	5.0000	5.1	0.5366720	0.5452949		1.6	+/-20	
Pentachlorophenol	A	5.0000	4.4	0.0934250	0.1202603		-11.6	+/-20	
2-Fluorophenol	A	7.5000	0.00	1.2129820					
p-Terphenyl-d14	A	5.0000	0.00154	0.6517430	0.0002011		-100		

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

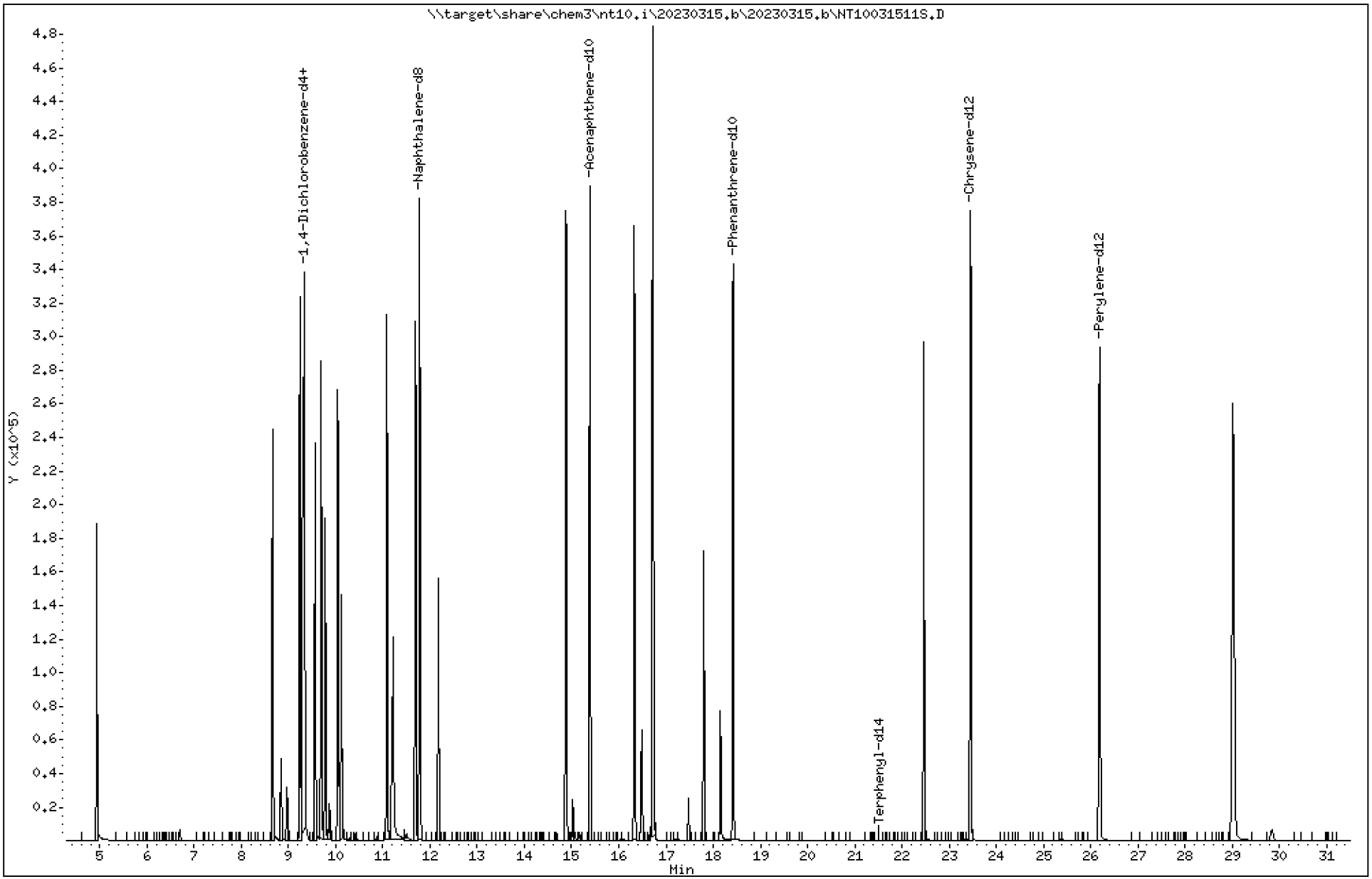
Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

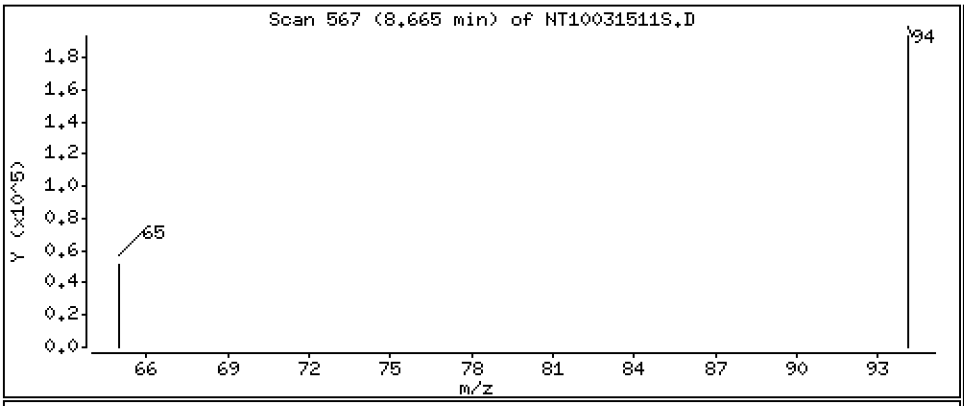
Operator: JGR

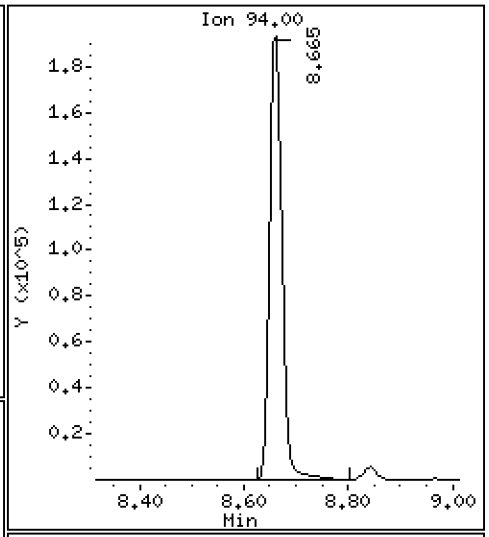
Column phase: ZB-5msi

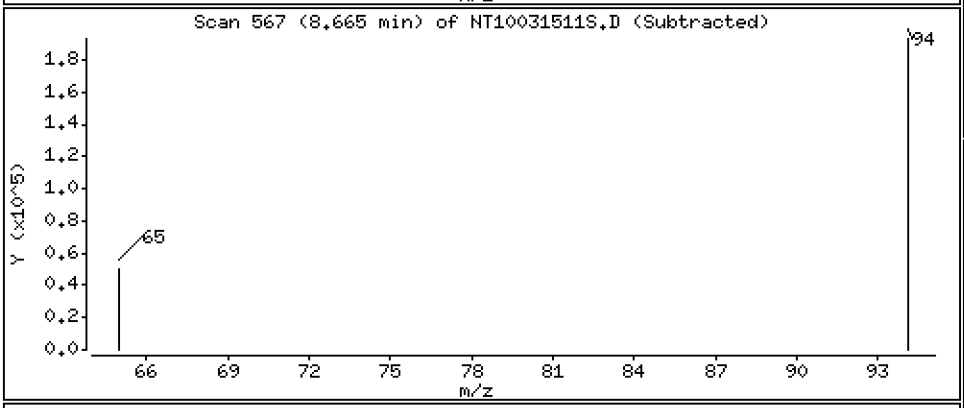
Column diameter: 0.25

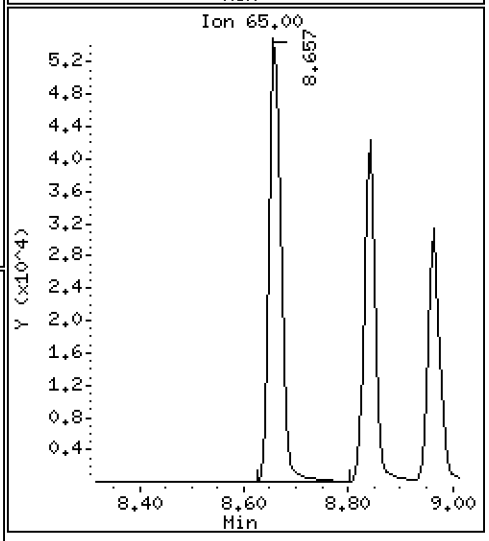
3 Phenol

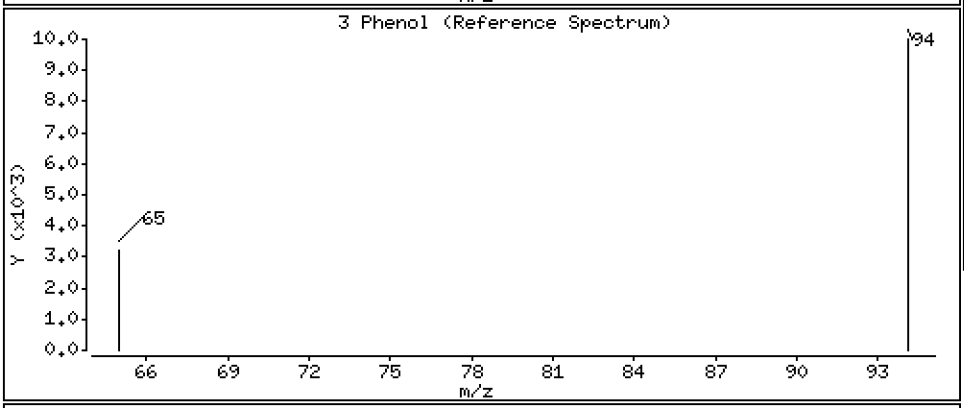
Concentration: 4.373 ug/L

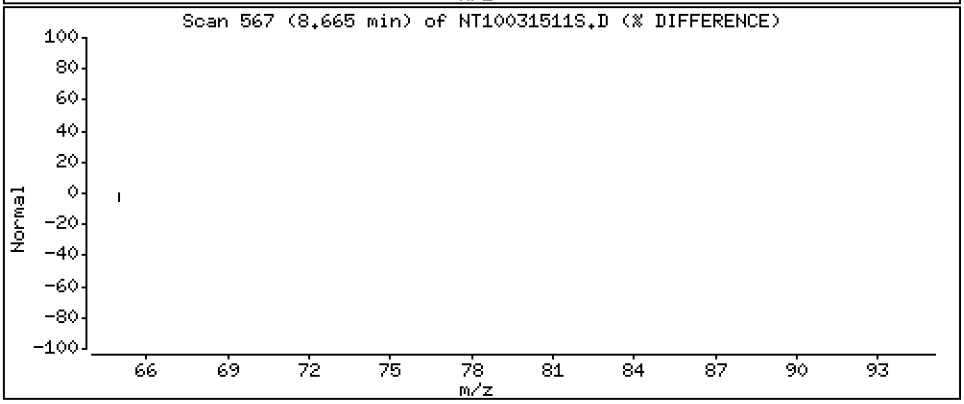












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

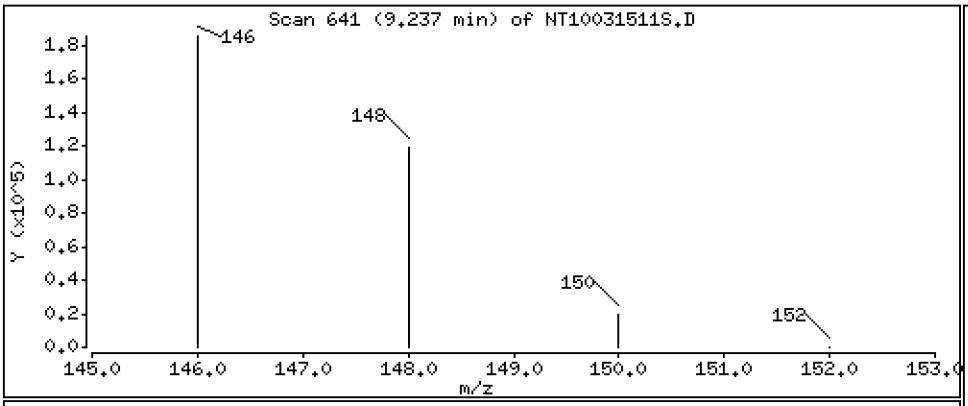
Operator: JGR

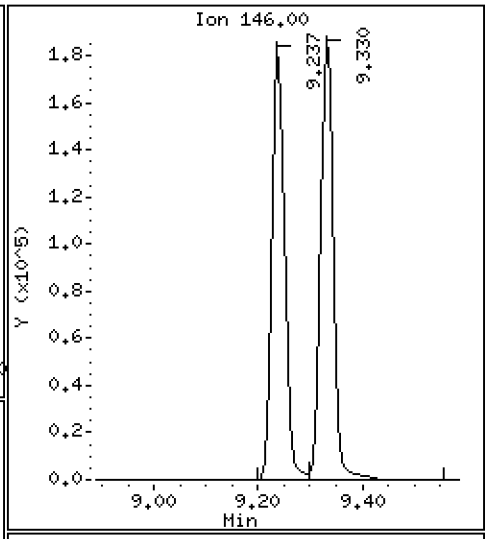
Column phase: ZB-5msi

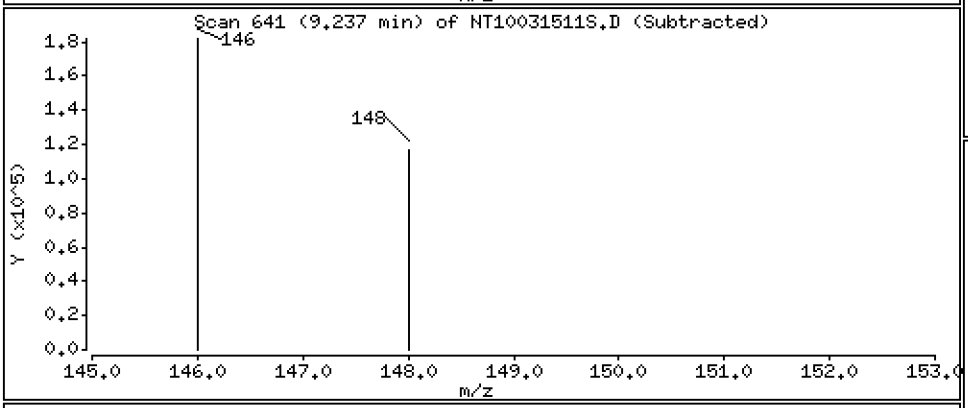
Column diameter: 0.25

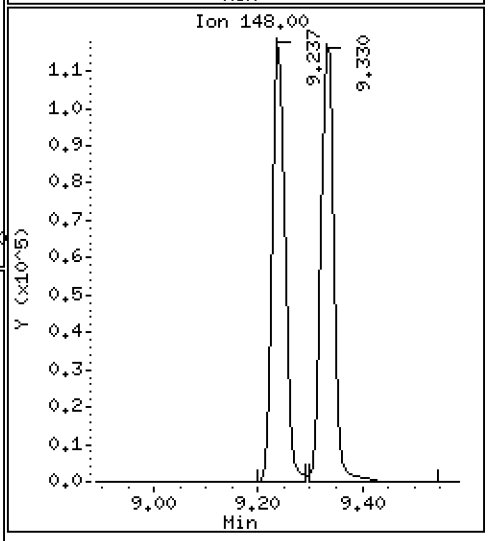
7 1,3-Dichlorobenzene

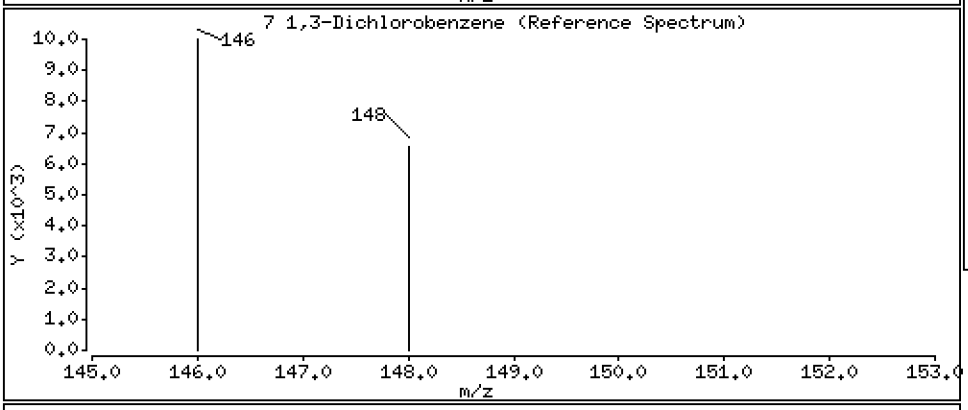
Concentration: 4.643 ug/L

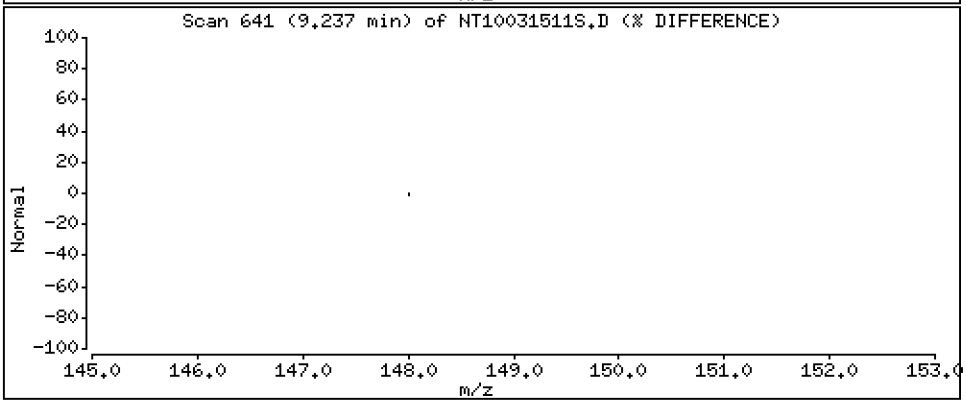












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

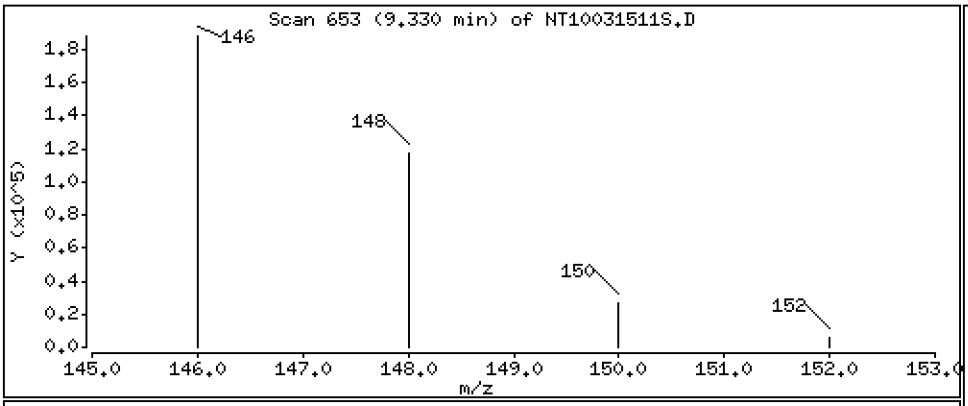
Operator: JGR

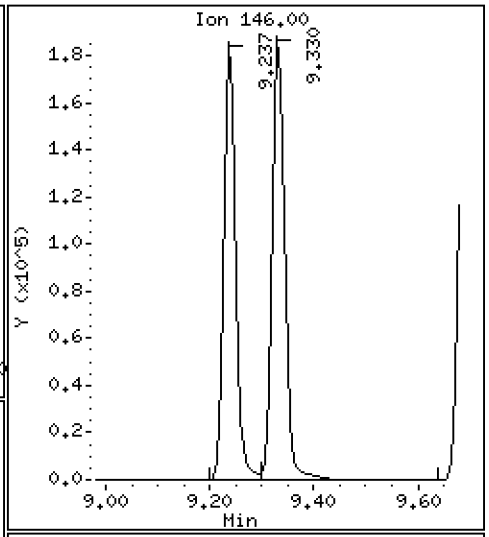
Column phase: ZB-5msi

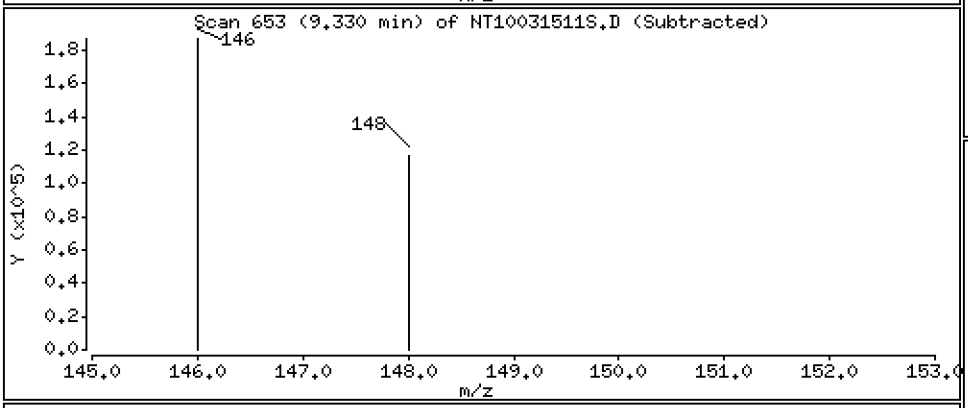
Column diameter: 0.25

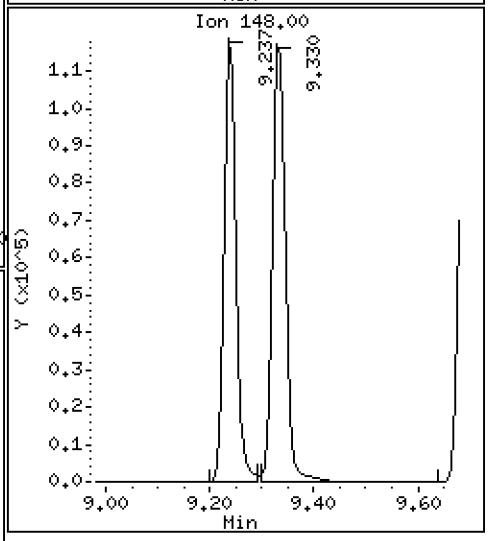
9 1,4-Dichlorobenzene

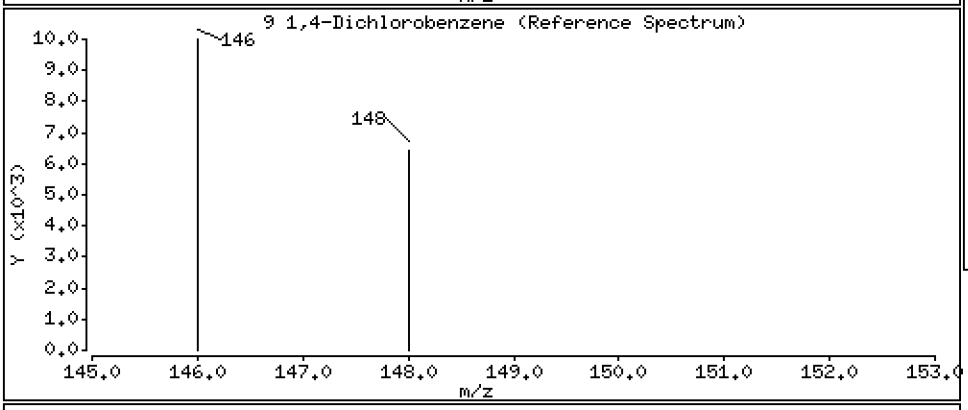
Concentration: 4.838 ug/L

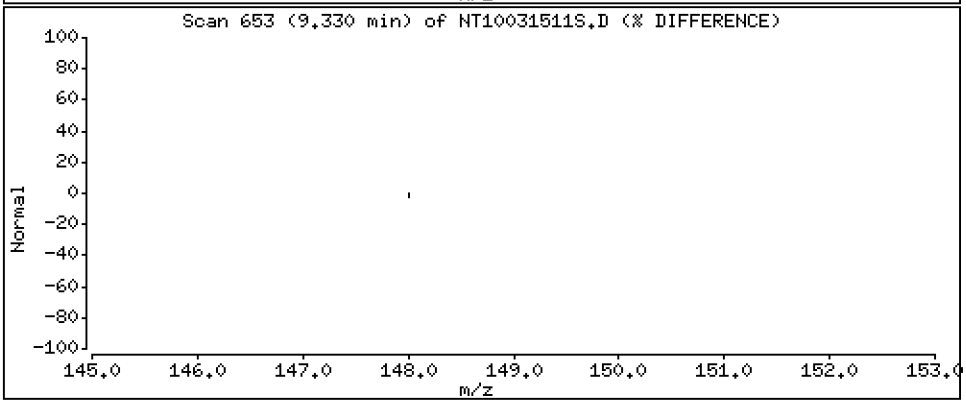












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

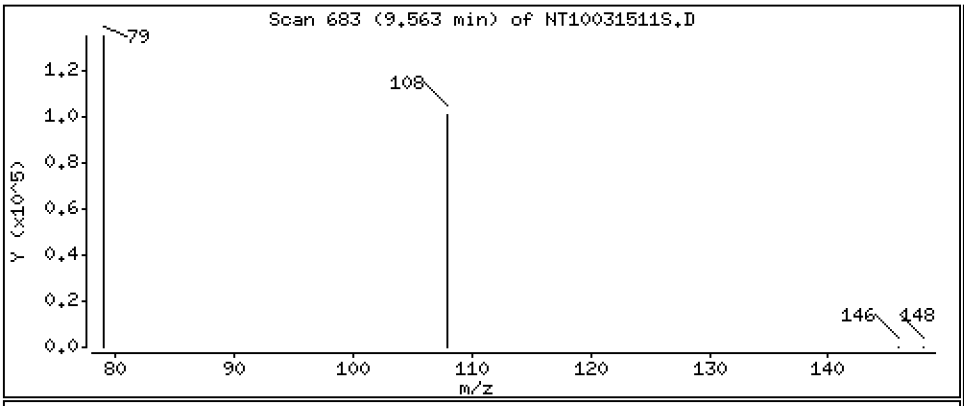
Operator: JGR

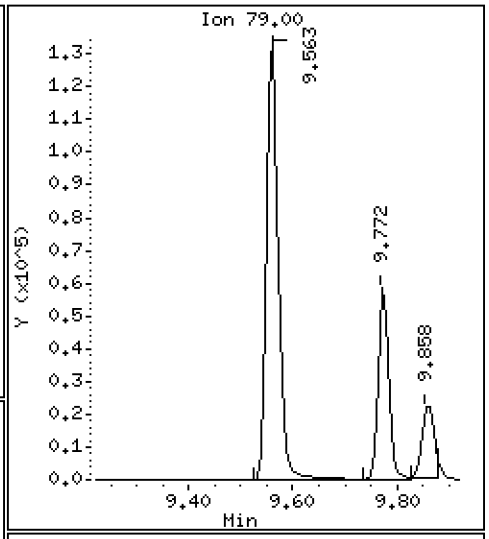
Column phase: ZB-5msi

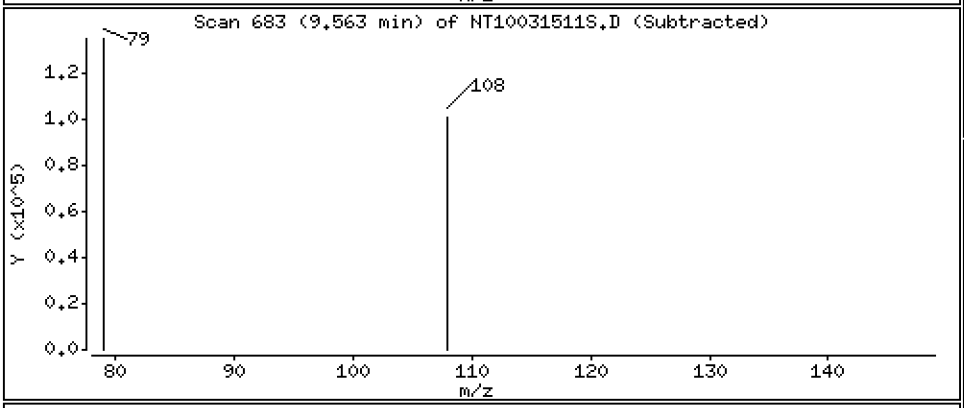
Column diameter: 0.25

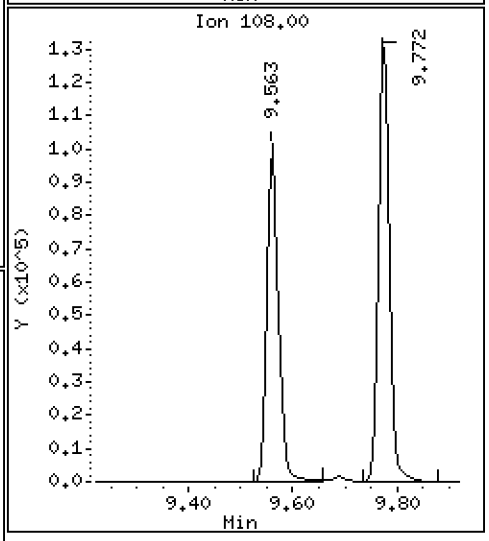
11 Benzyl alcohol

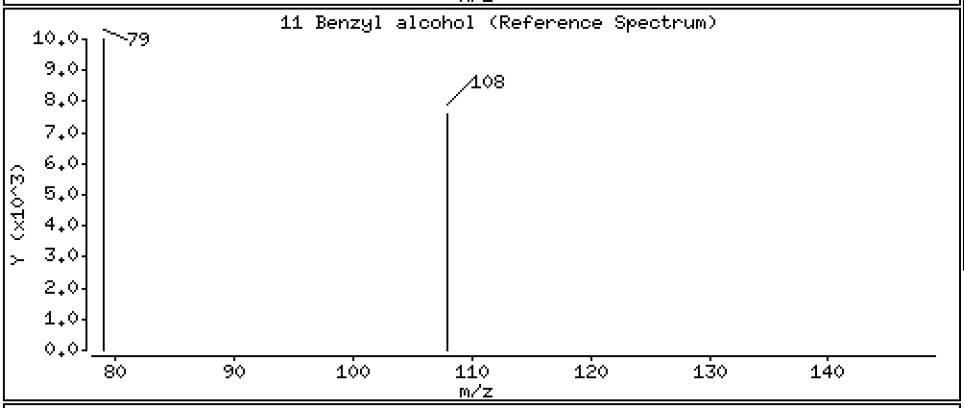
Concentration: 5.181 ug/L

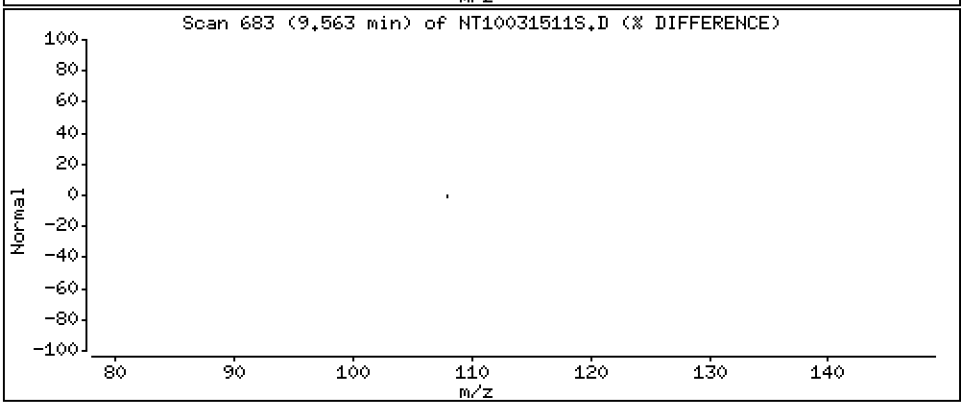












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

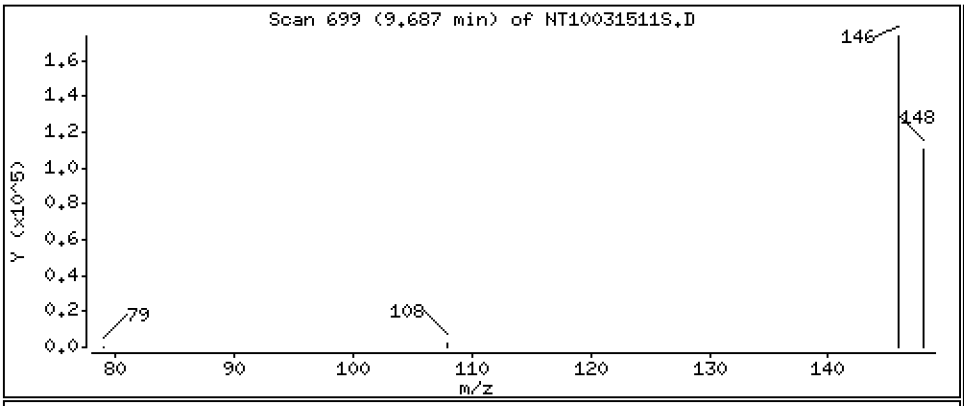
Operator: JGR

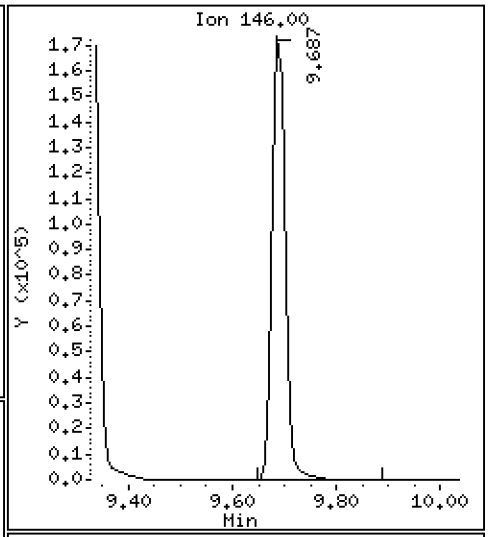
Column phase: ZB-5msi

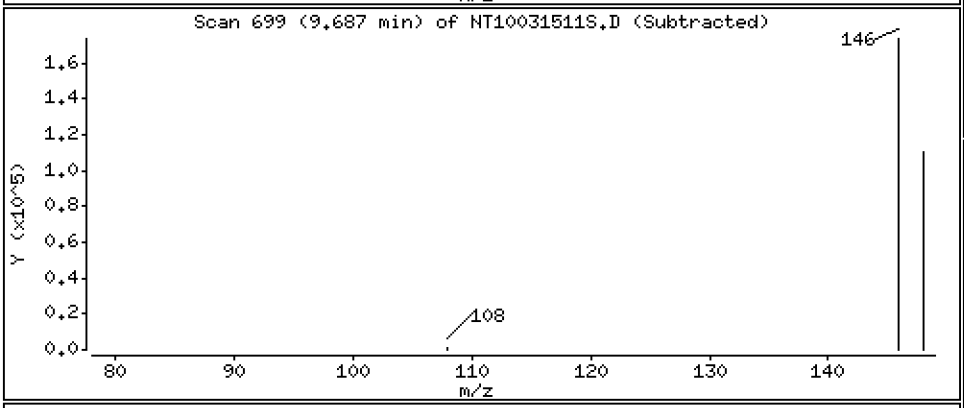
Column diameter: 0.25

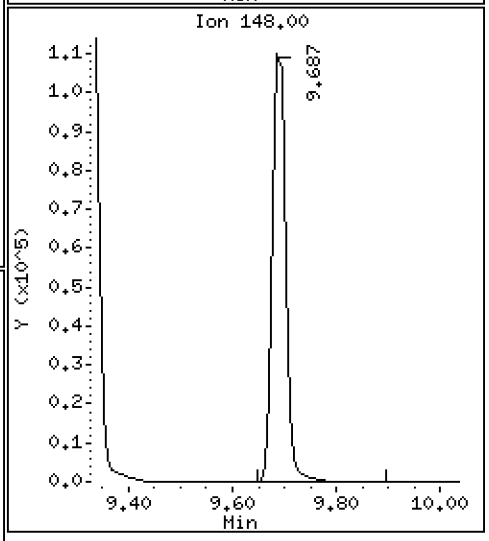
12 1,2-Dichlorobenzene

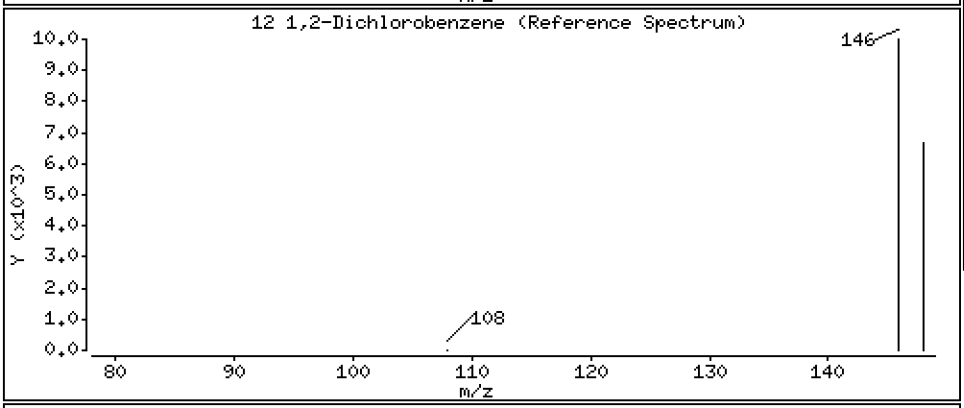
Concentration: 4.679 ug/L

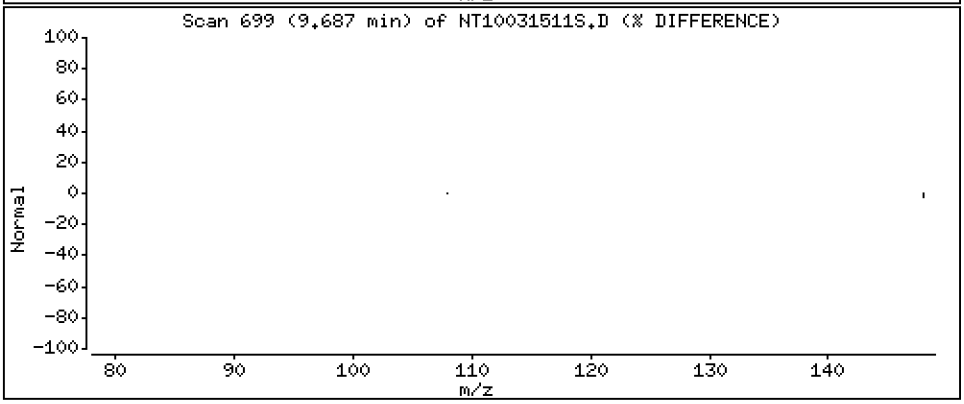












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

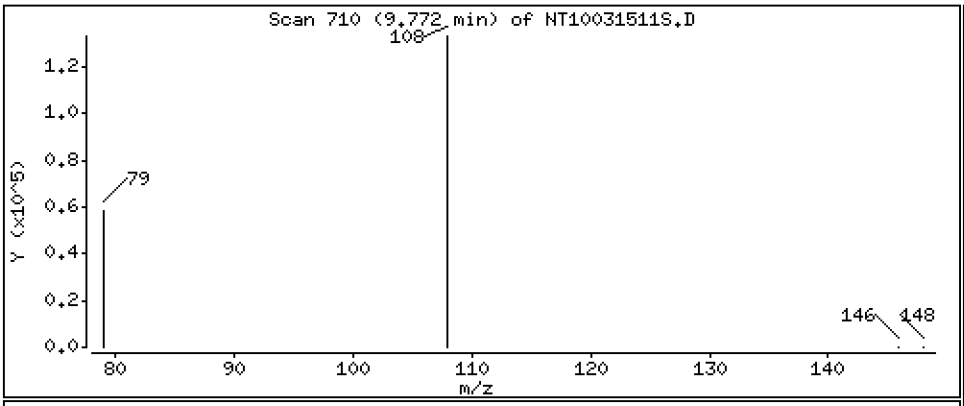
Operator: JGR

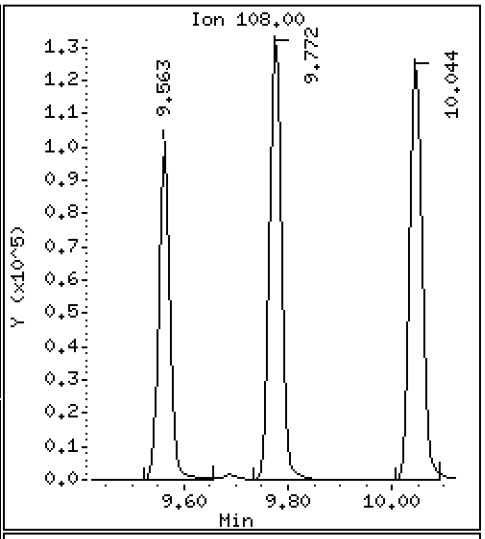
Column phase: ZB-5msi

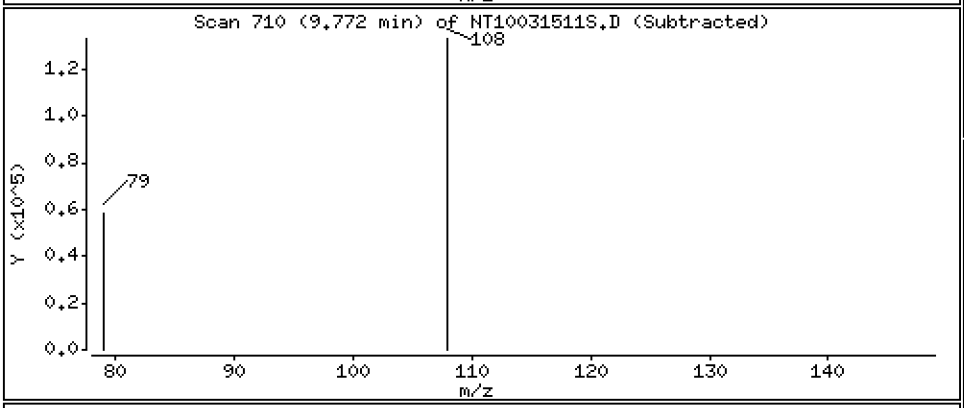
Column diameter: 0.25

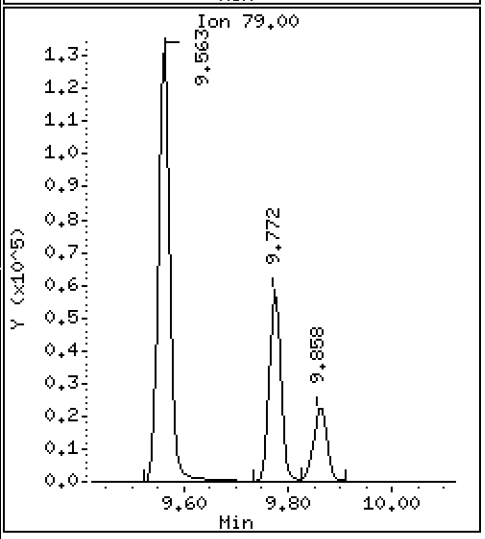
13 2-Methylphenol

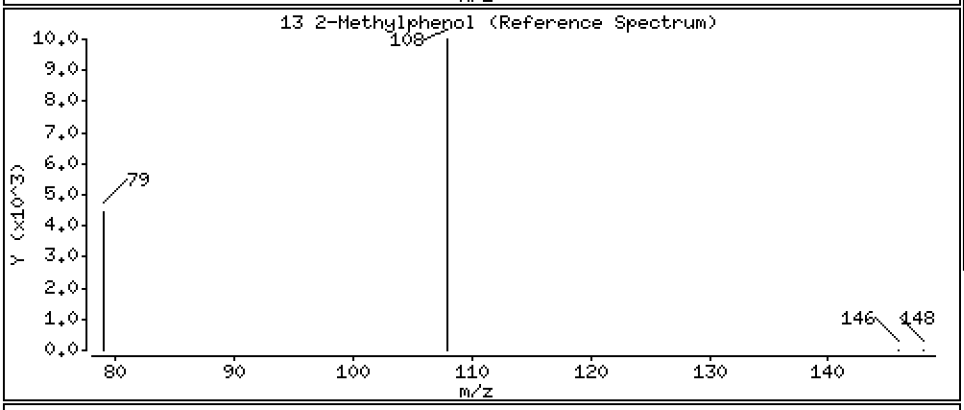
Concentration: 4.197 ug/L

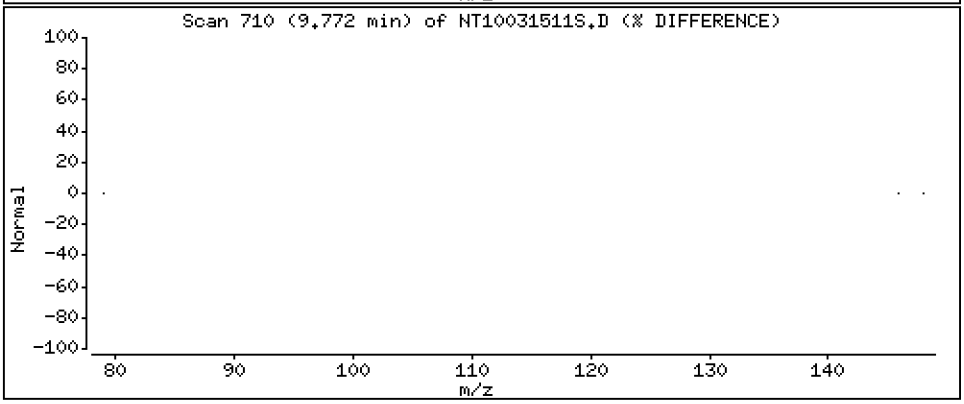












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

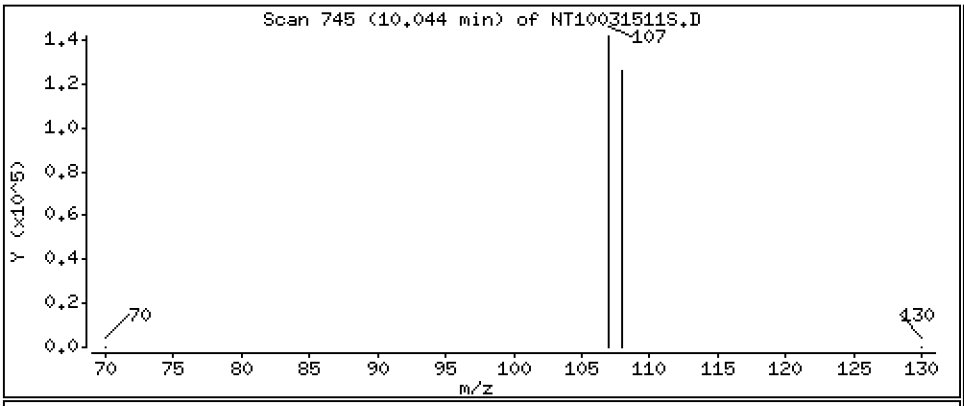
Operator: JGR

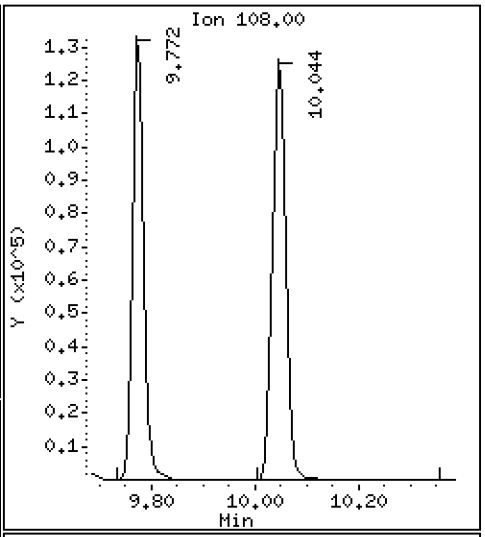
Column phase: ZB-5msi

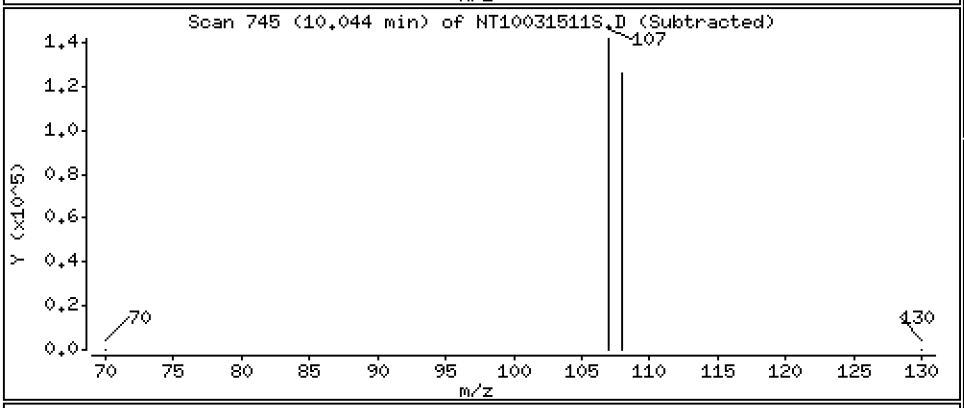
Column diameter: 0.25

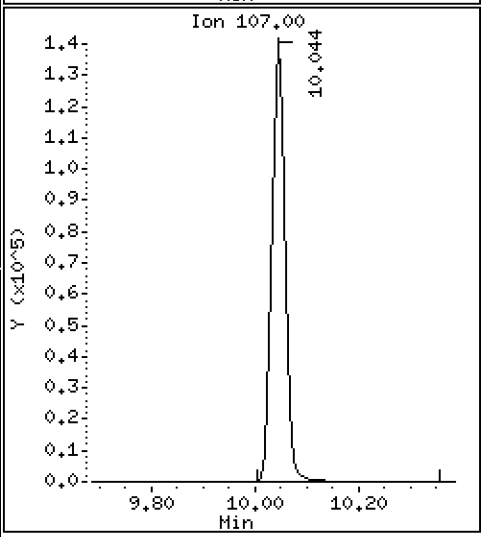
15 4-Methylphenol

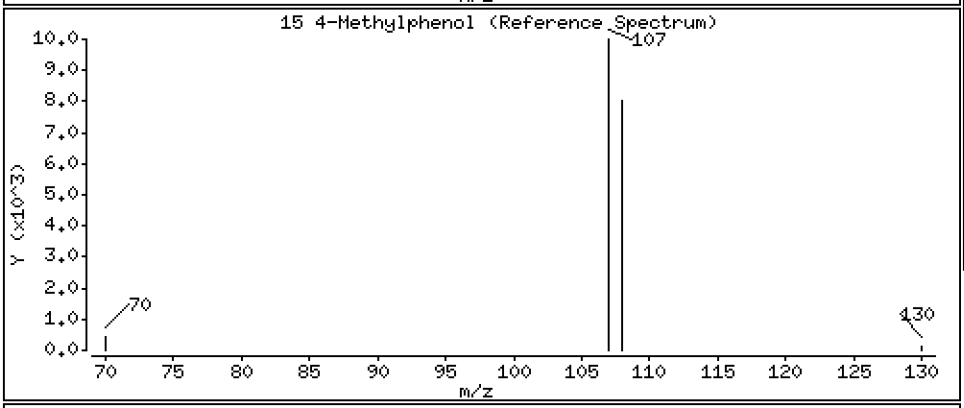
Concentration: 4.463 ug/L

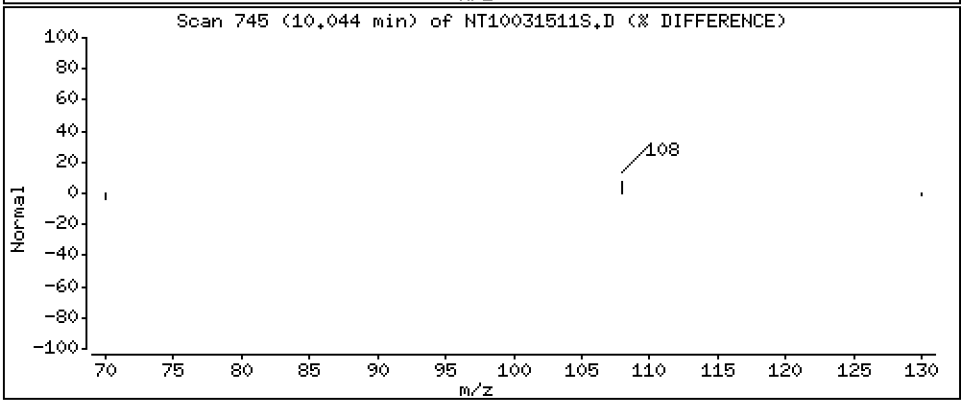












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

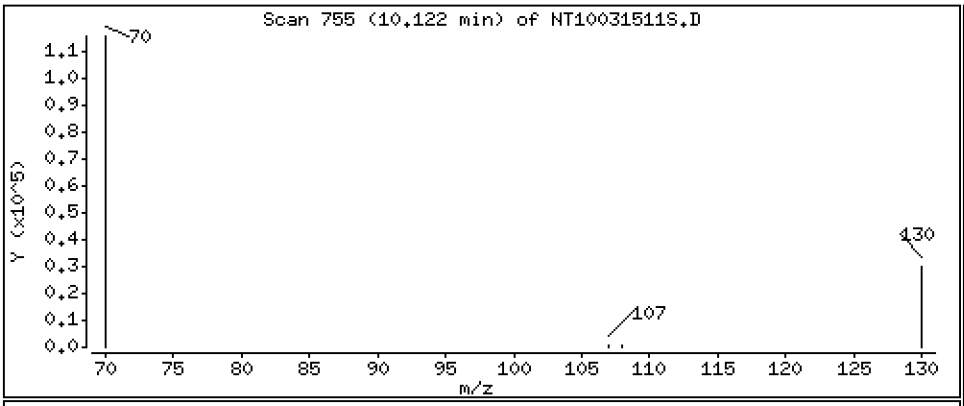
Operator: JGR

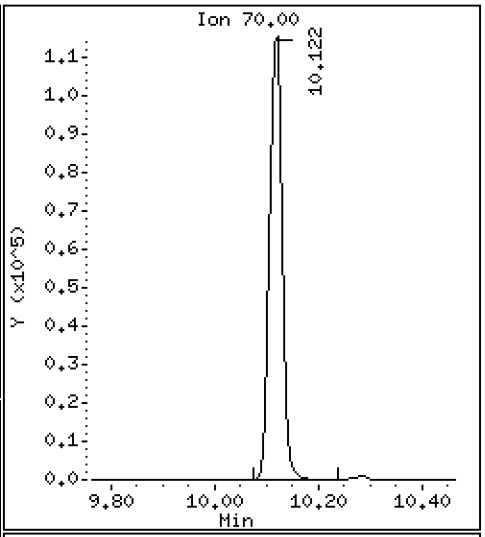
Column phase: ZB-5msi

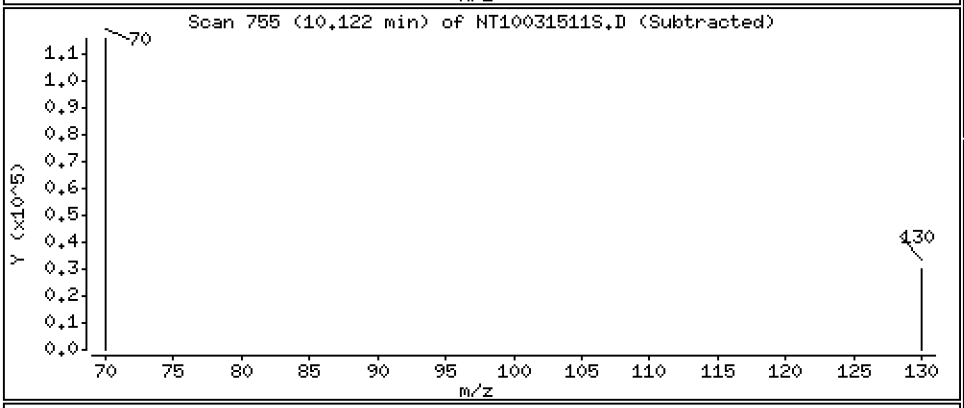
Column diameter: 0.25

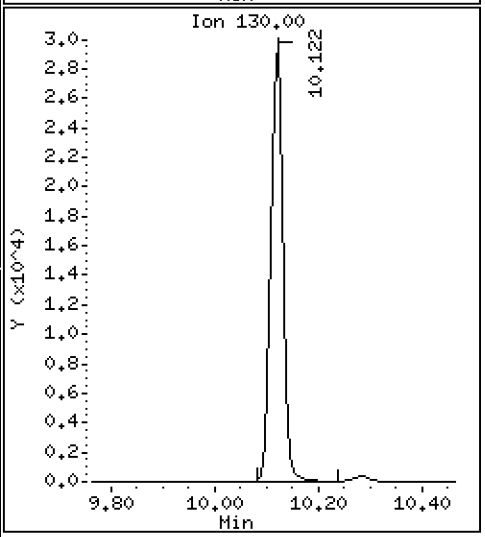
16 N-Nitroso-di-n-propylamine

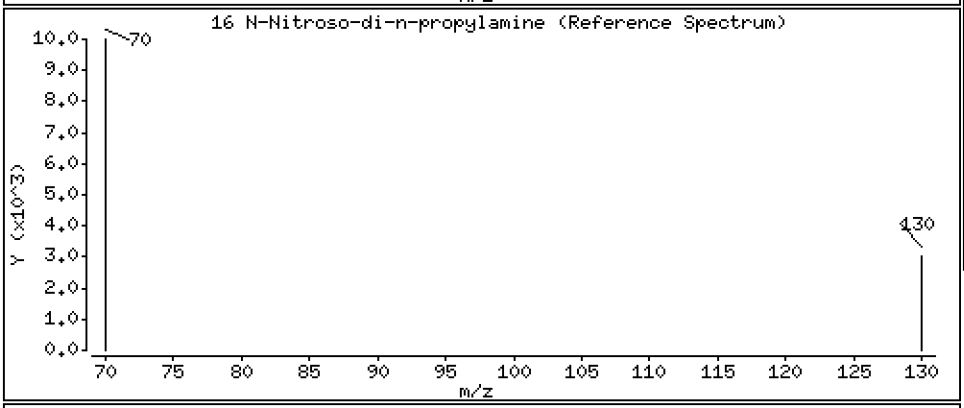
Concentration: 5.282 ug/L

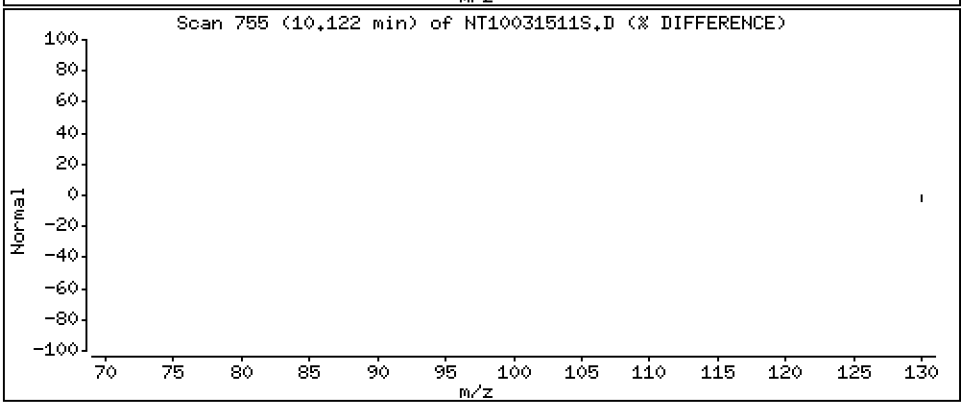












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

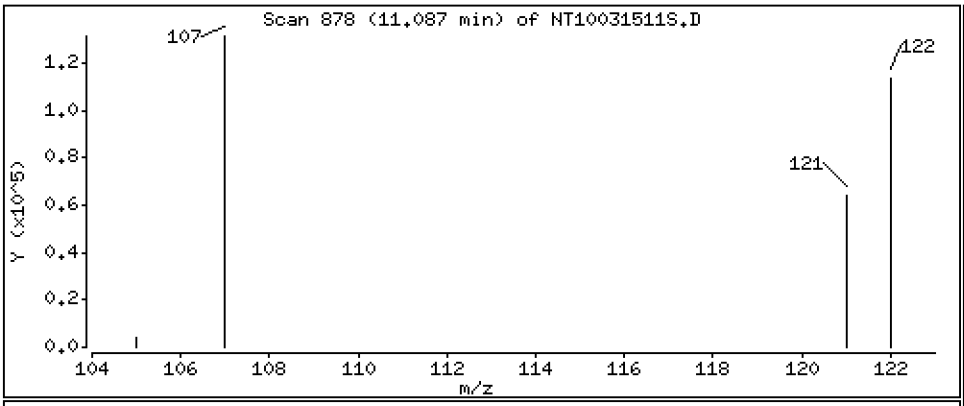
Operator: JGR

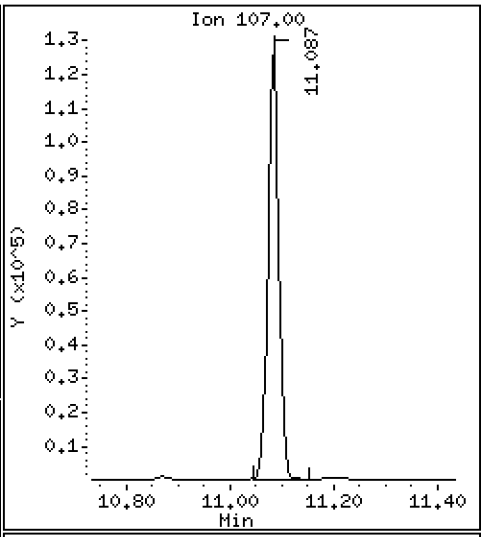
Column phase: ZB-5msi

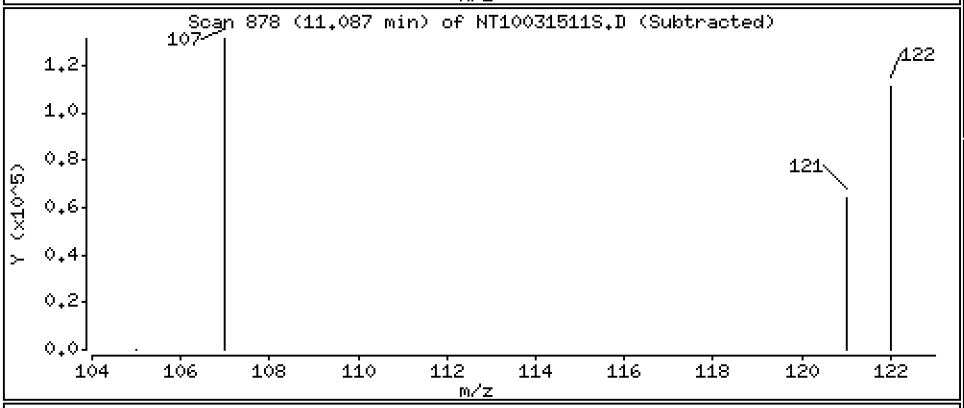
Column diameter: 0.25

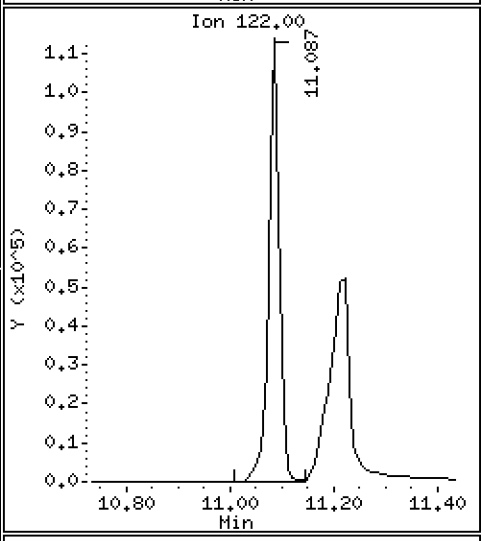
22 2,4-Dimethylphenol

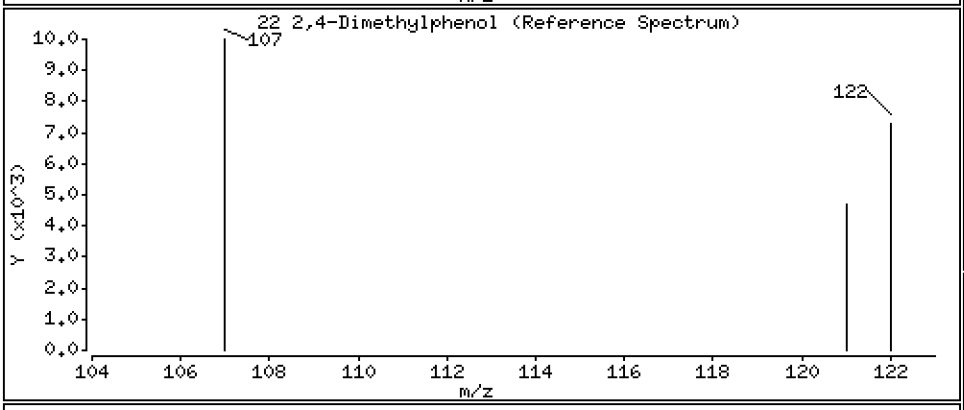
Concentration: 3.660 ug/L

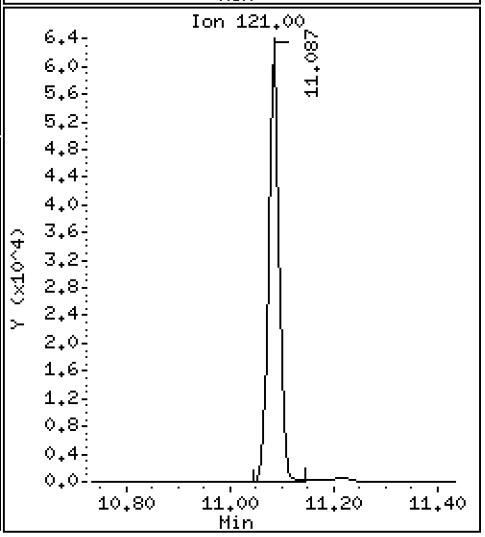


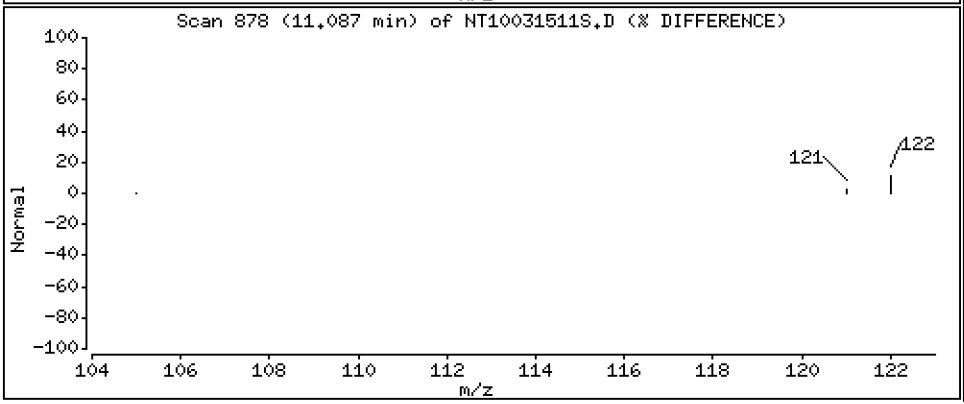












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

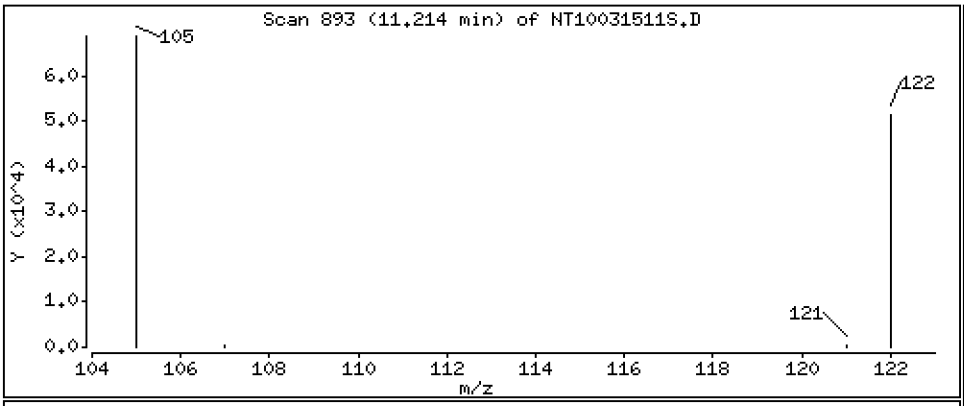
Operator: JGR

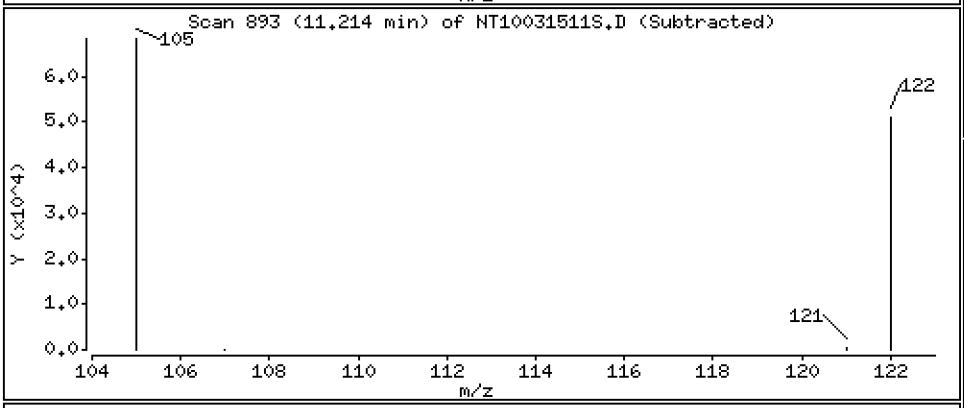
Column phase: ZB-5msi

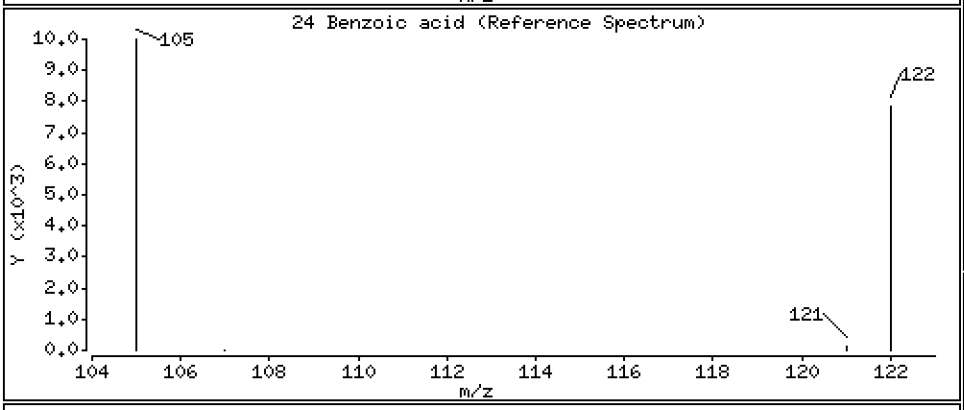
Column diameter: 0.25

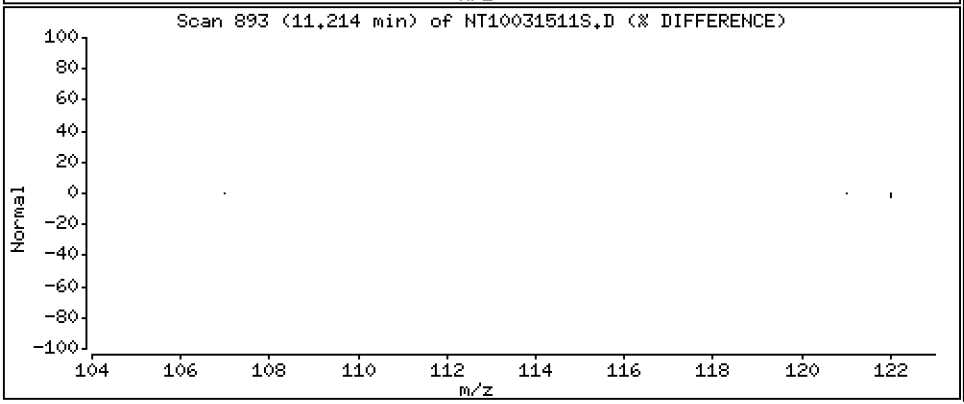
24 Benzoic acid

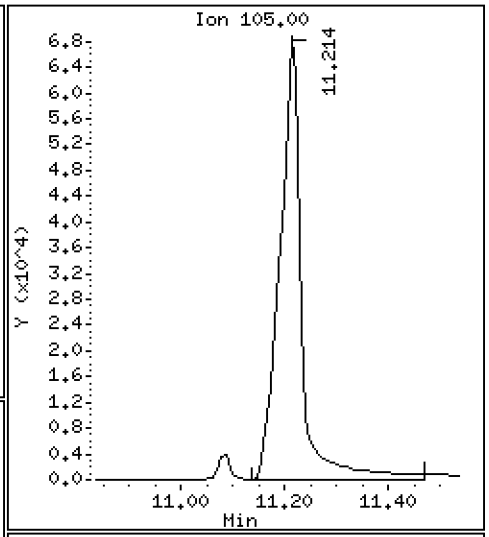
Concentration: 6.746 ug/L

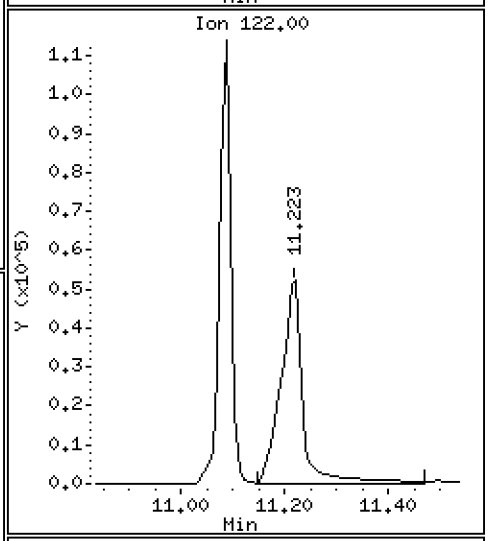


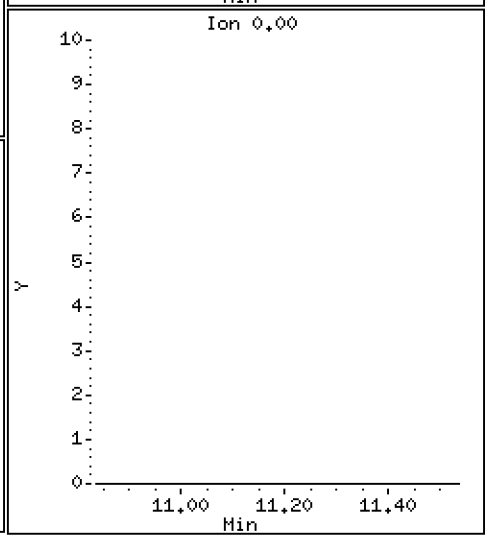












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

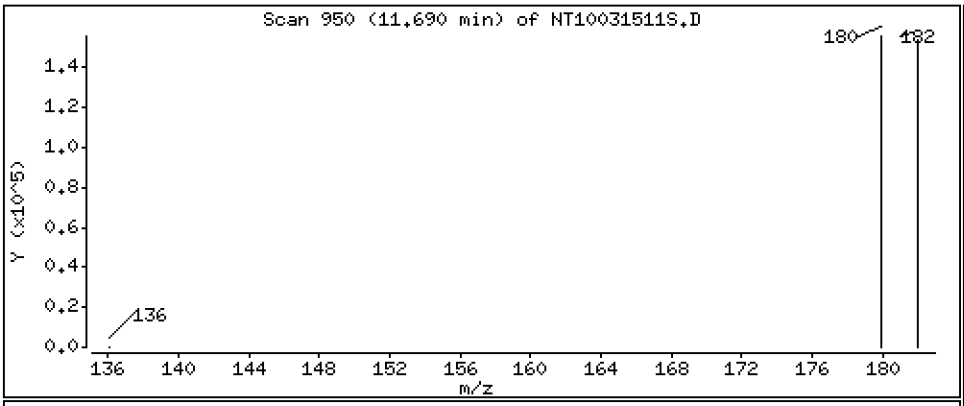
Operator: JGR

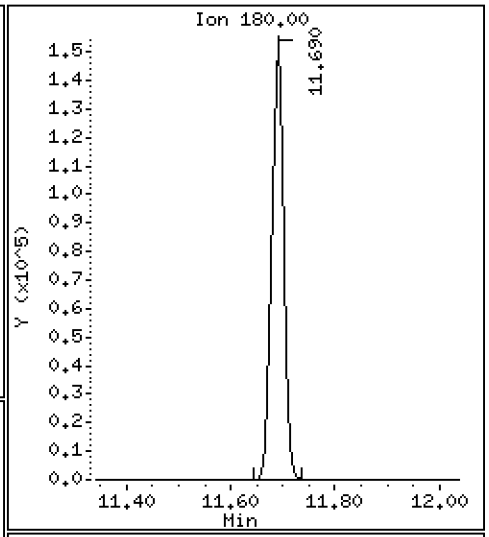
Column phase: ZB-5msi

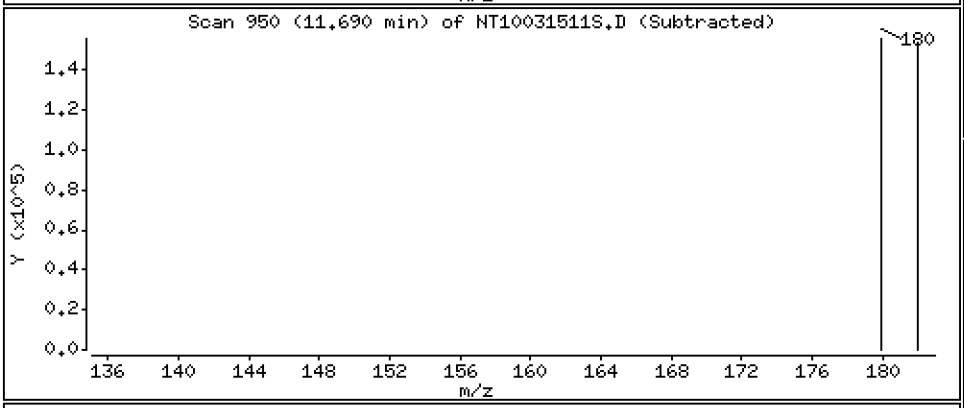
Column diameter: 0.25

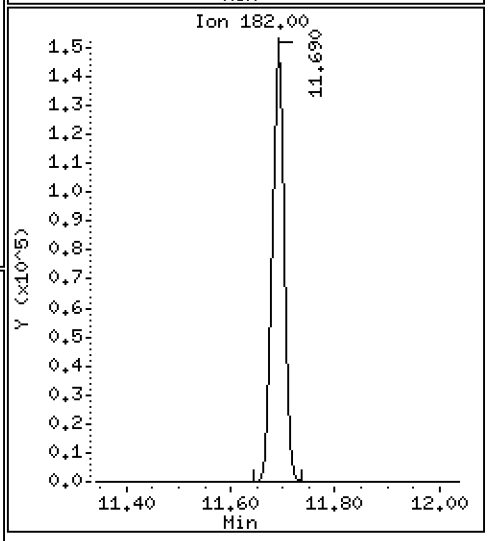
26 1,2,4-Trichlorobenzene

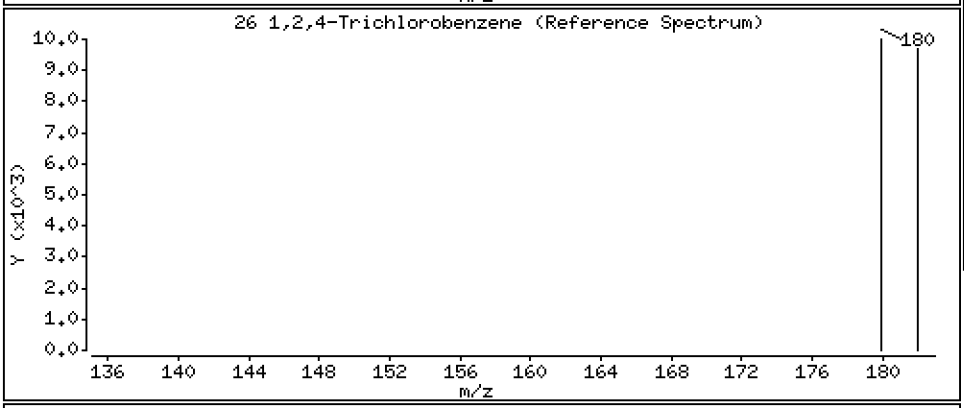
Concentration: 4.445 ug/L

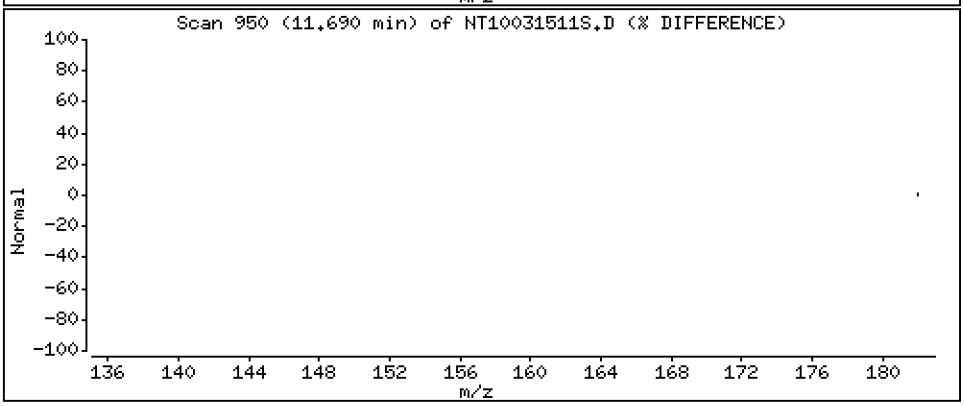












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

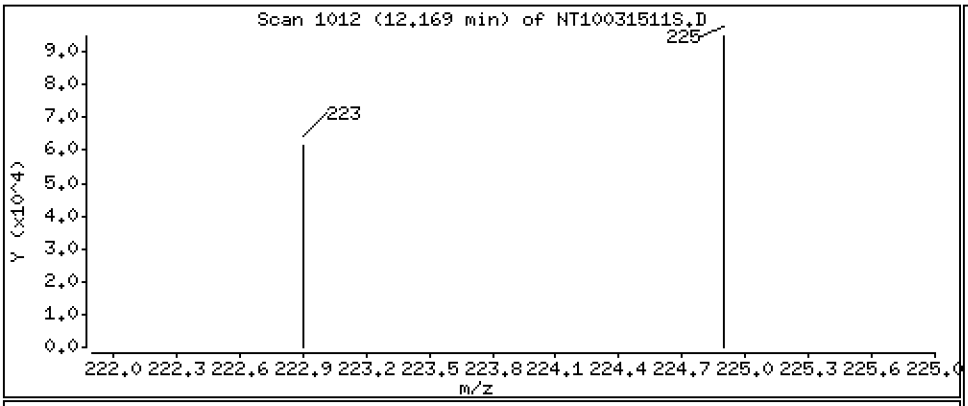
Operator: JGR

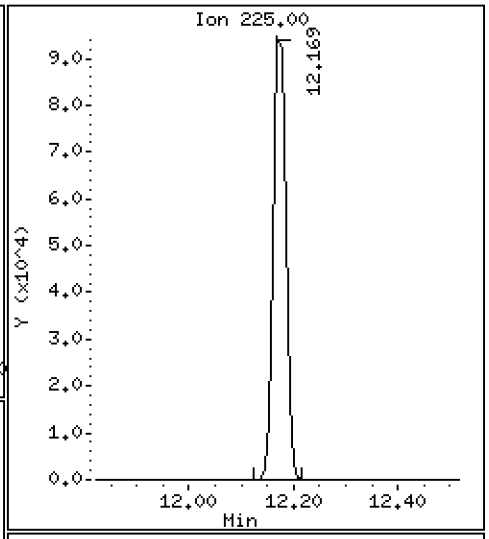
Column phase: ZB-5msi

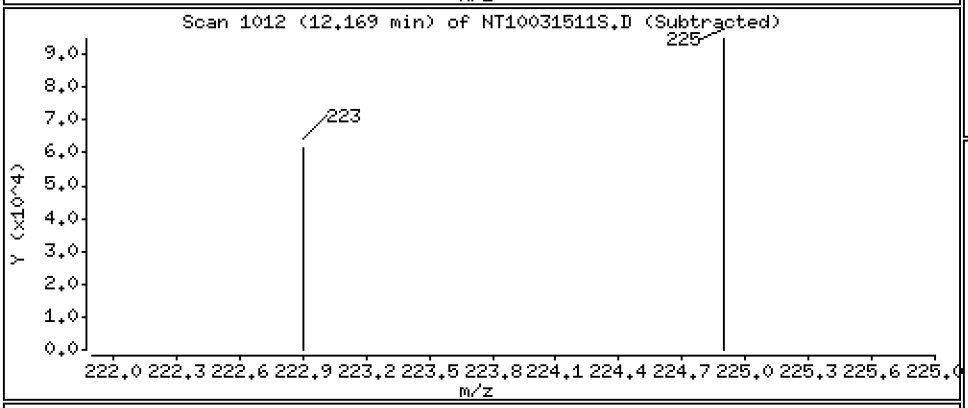
Column diameter: 0.25

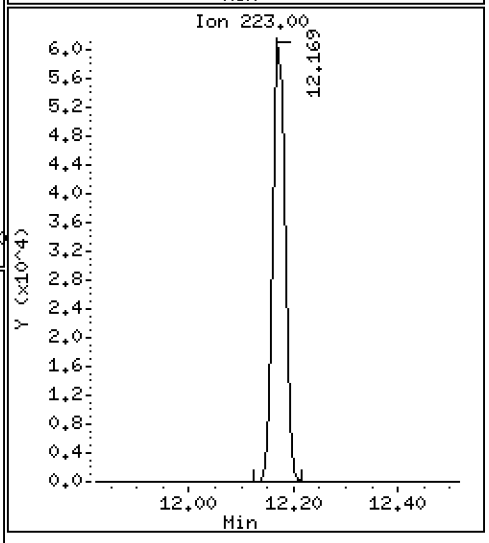
30 Hexachlorobutadiene

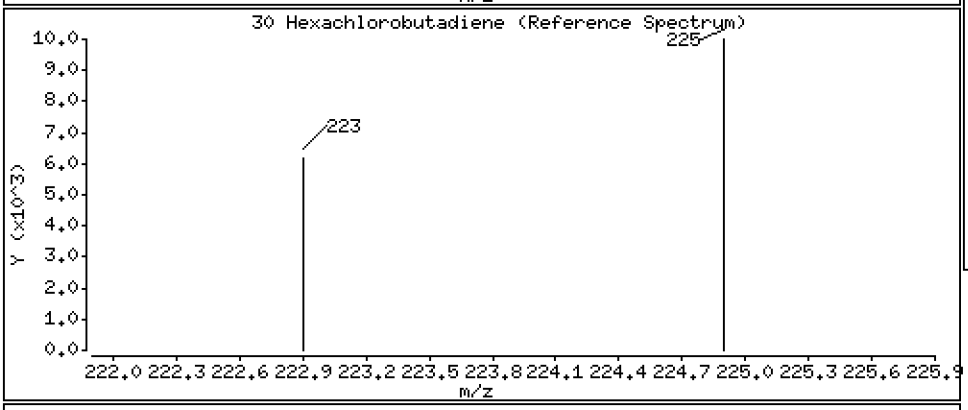
Concentration: 4.653 ug/L

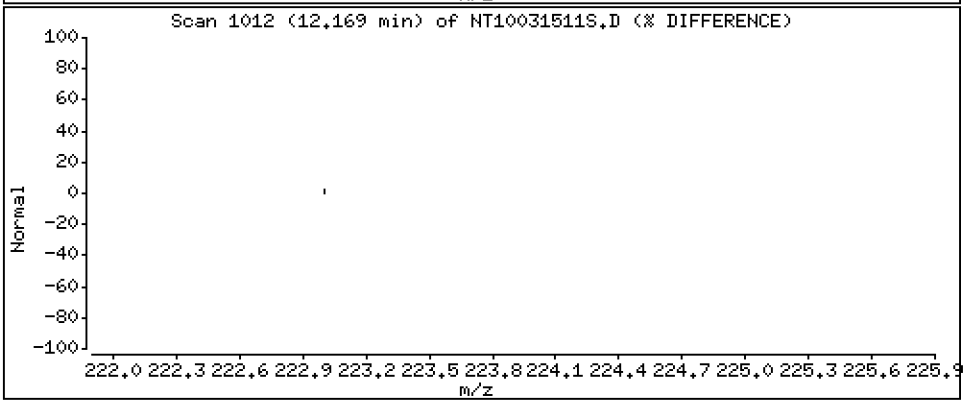












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

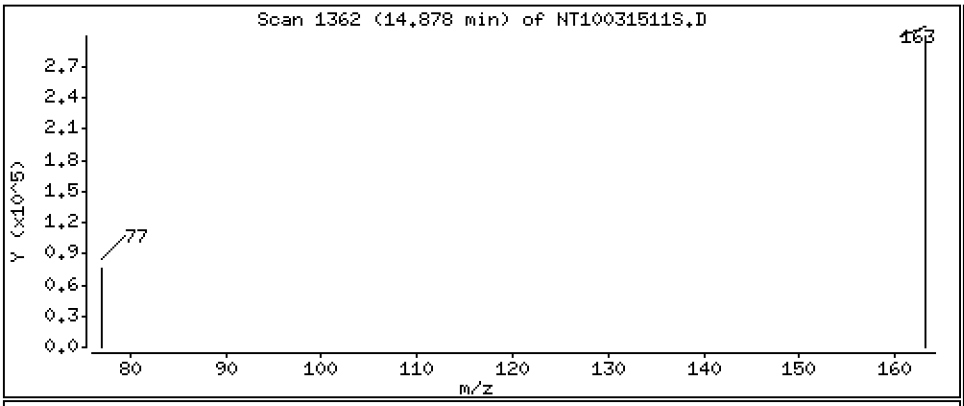
Operator: JGR

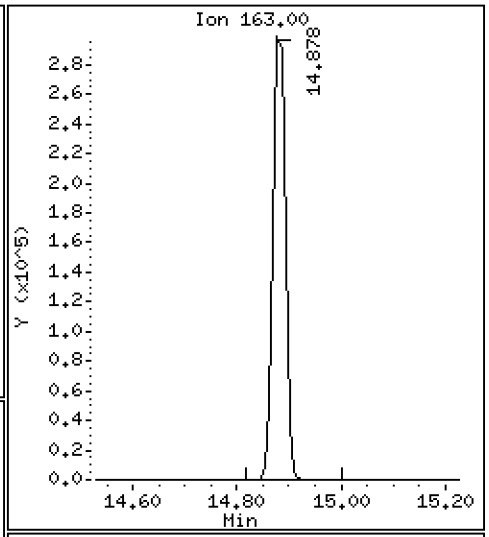
Column phase: ZB-5msi

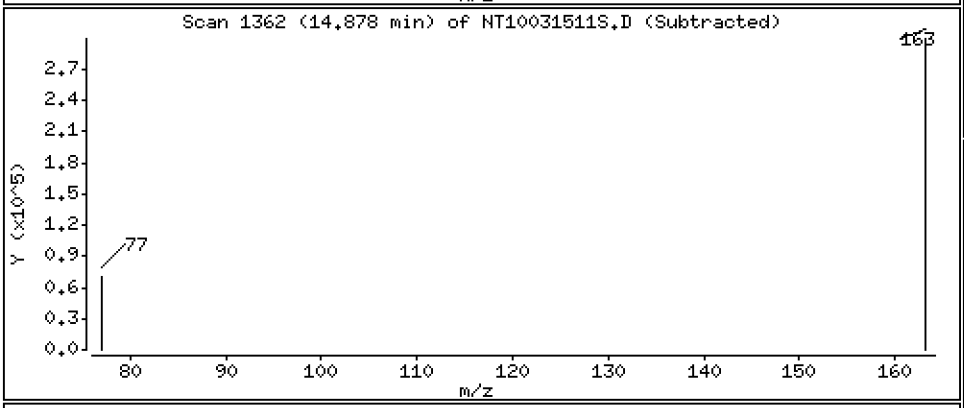
Column diameter: 0.25

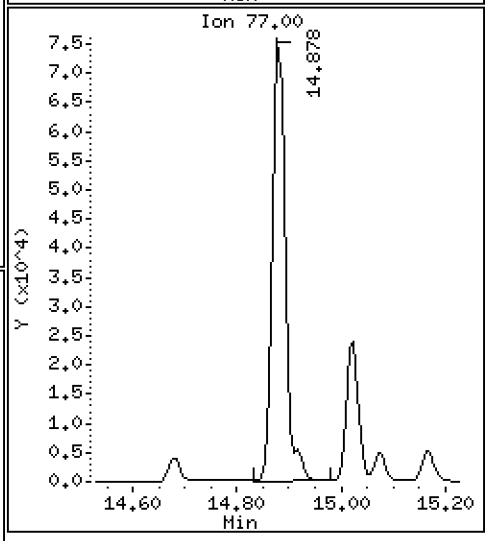
39 Dimethylphthalate

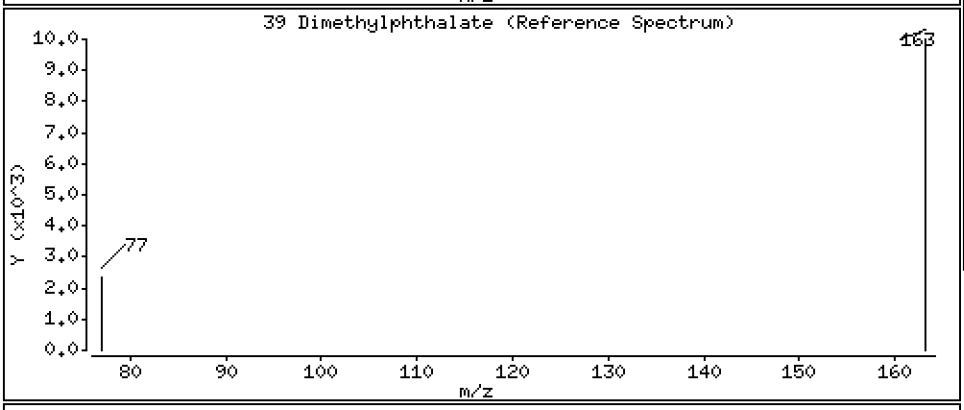
Concentration: 4.948 ug/L

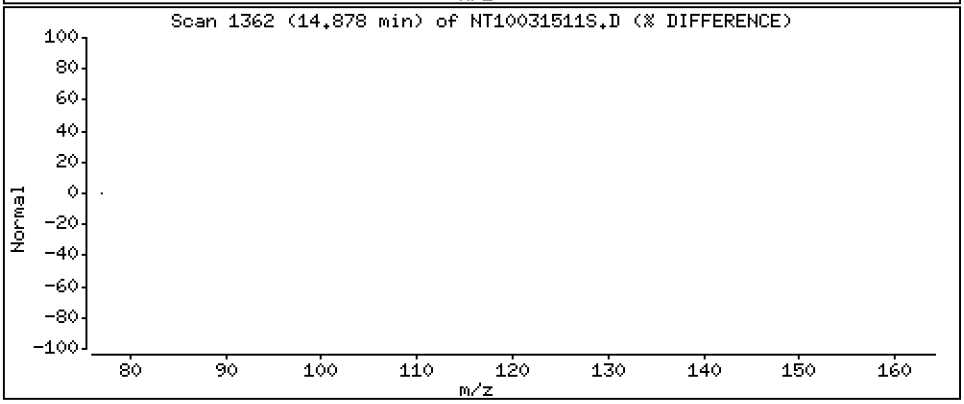












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

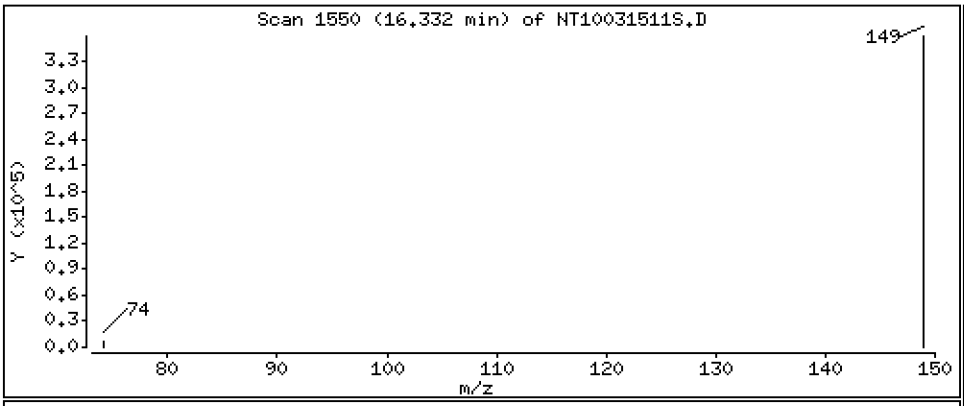
Operator: JGR

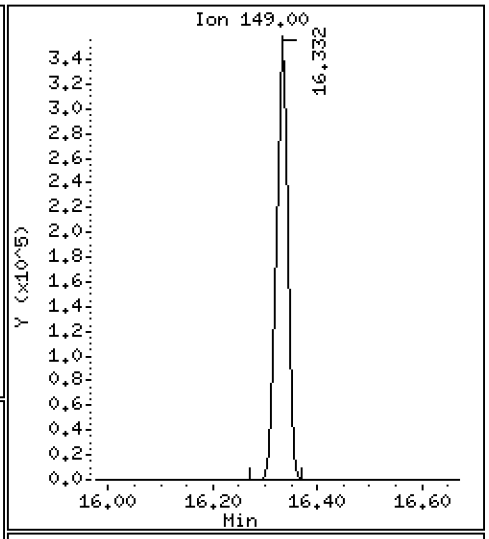
Column phase: ZB-5msi

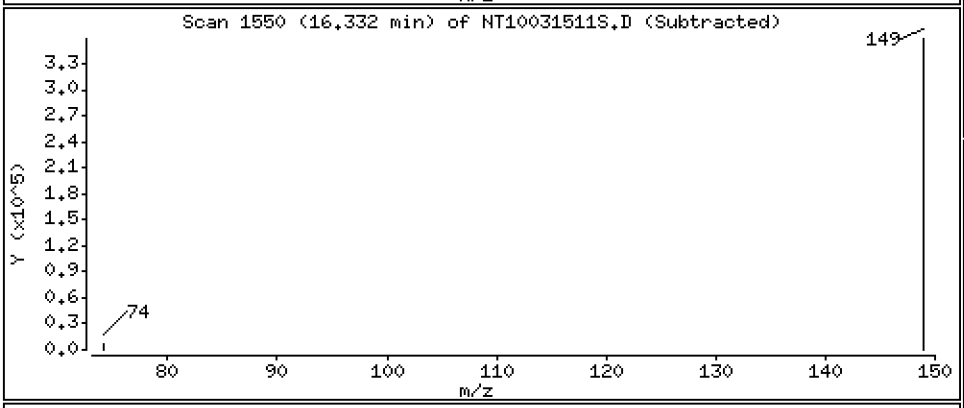
Column diameter: 0.25

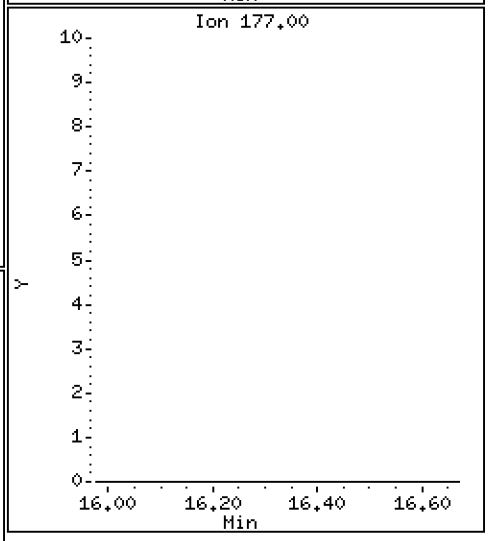
50 Diethylphthalate

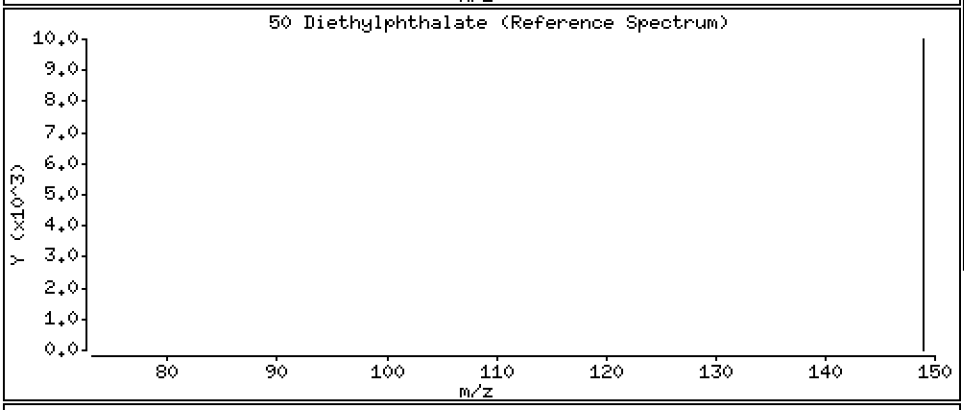
Concentration: 5.364 ug/L

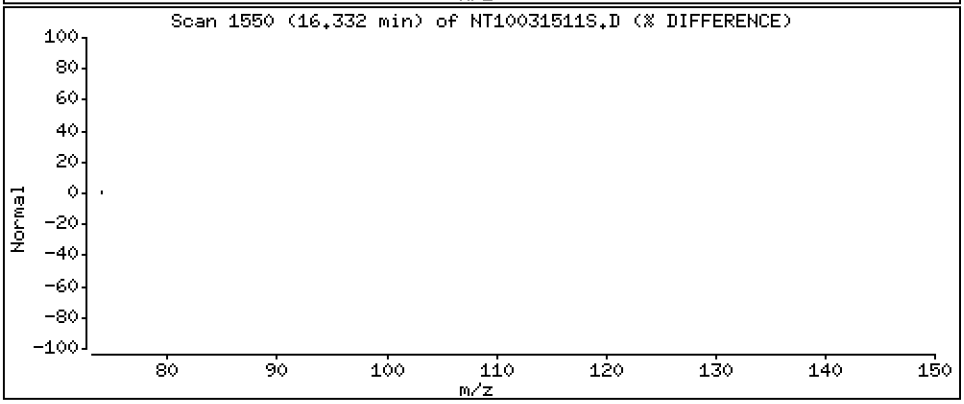












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

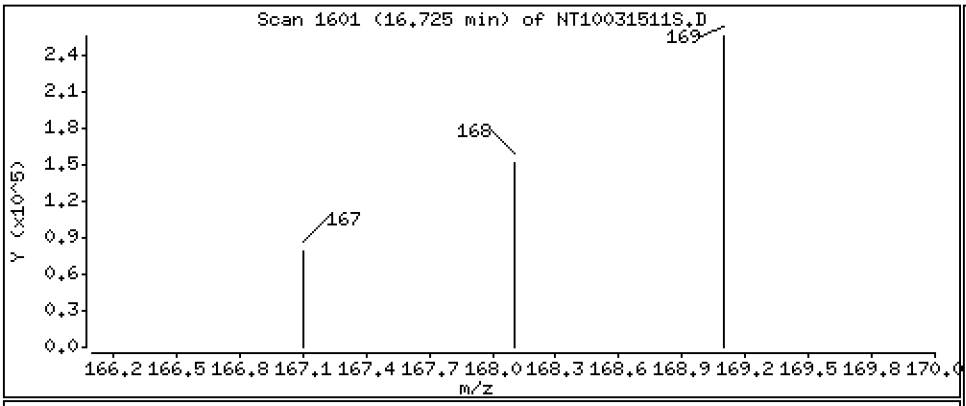
Operator: JGR

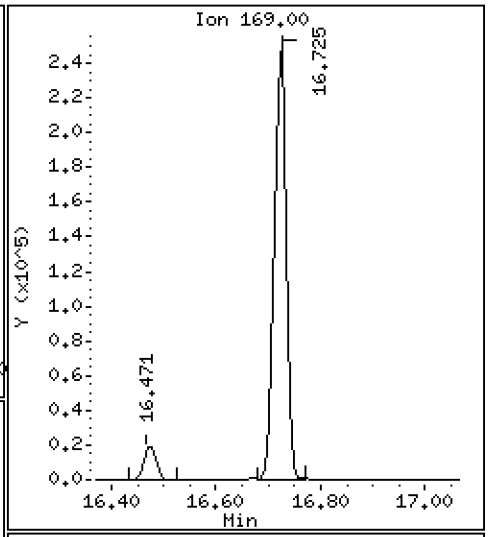
Column phase: ZB-5msi

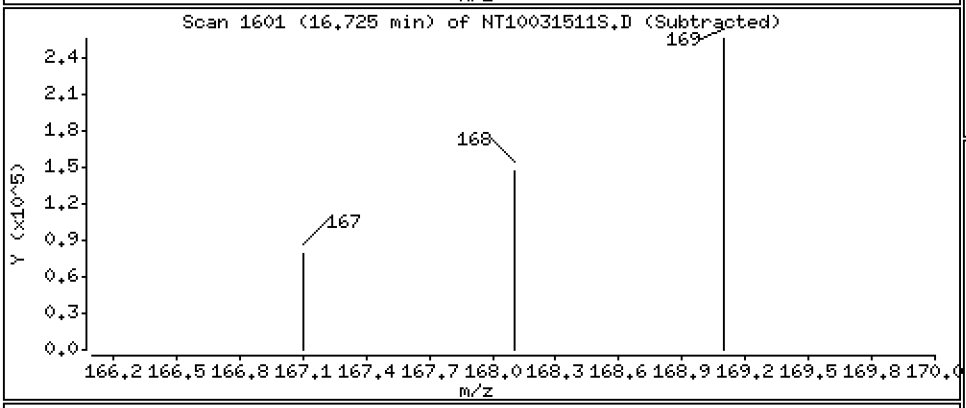
Column diameter: 0.25

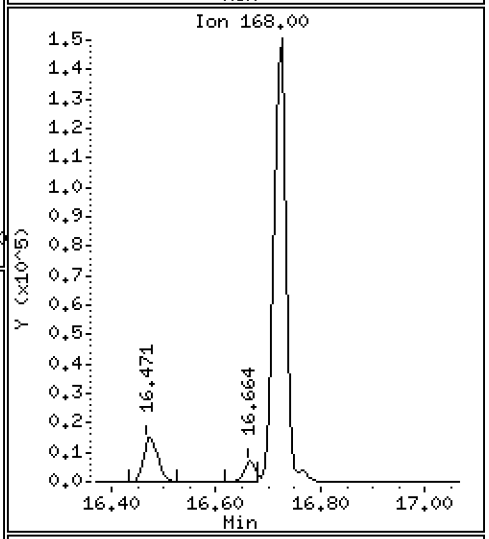
54 N-Nitrosodiphenylamine

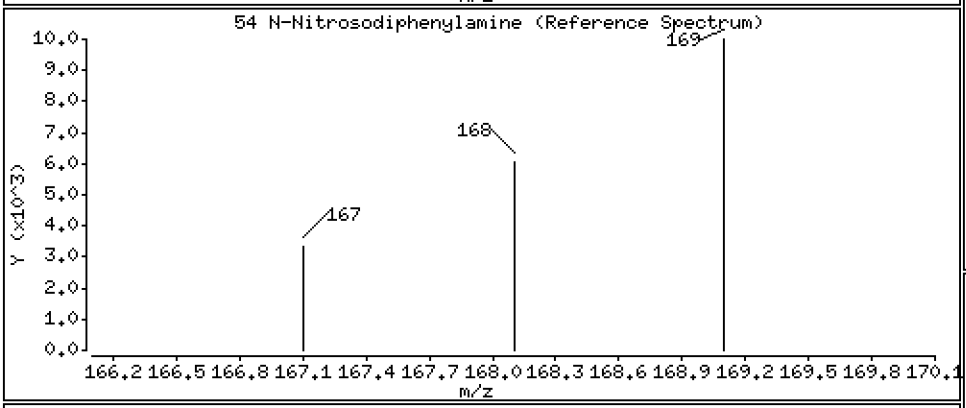
Concentration: 5.080 ug/L

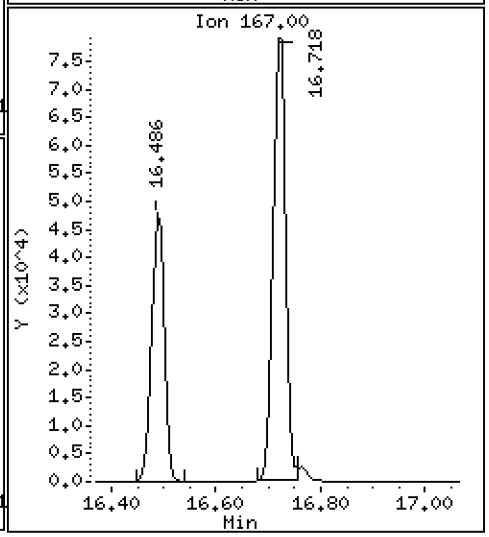


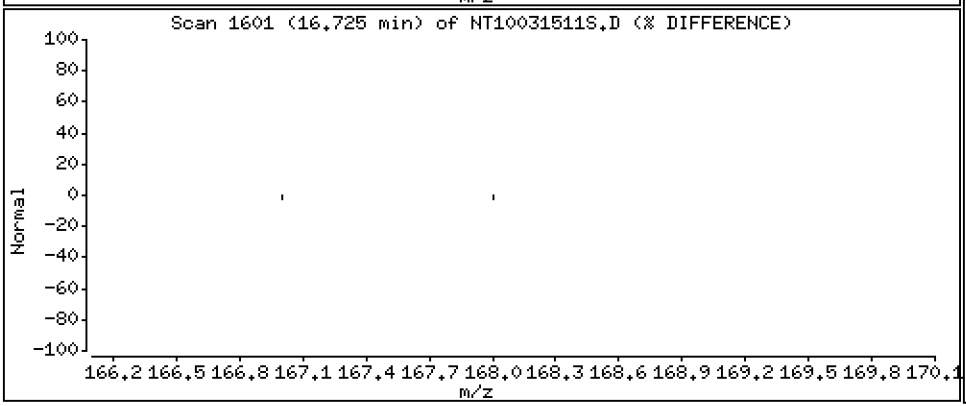












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

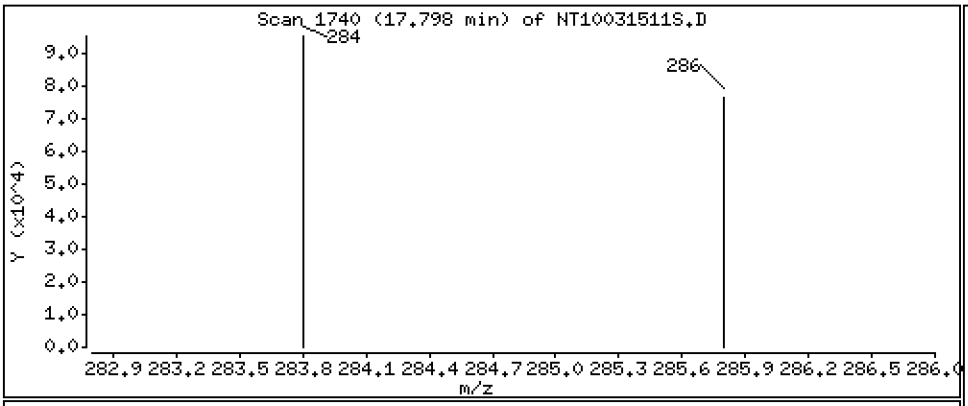
Operator: JGR

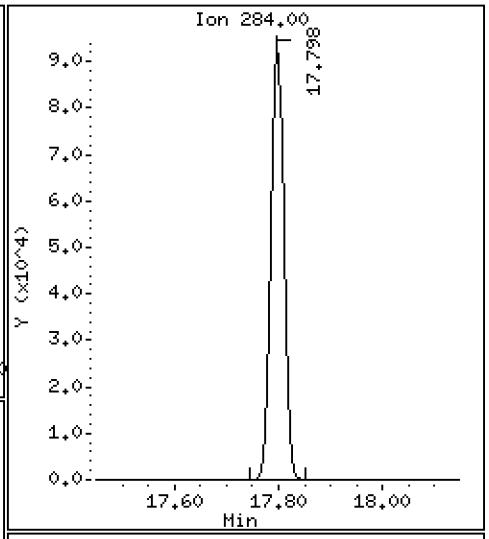
Column phase: ZB-5msi

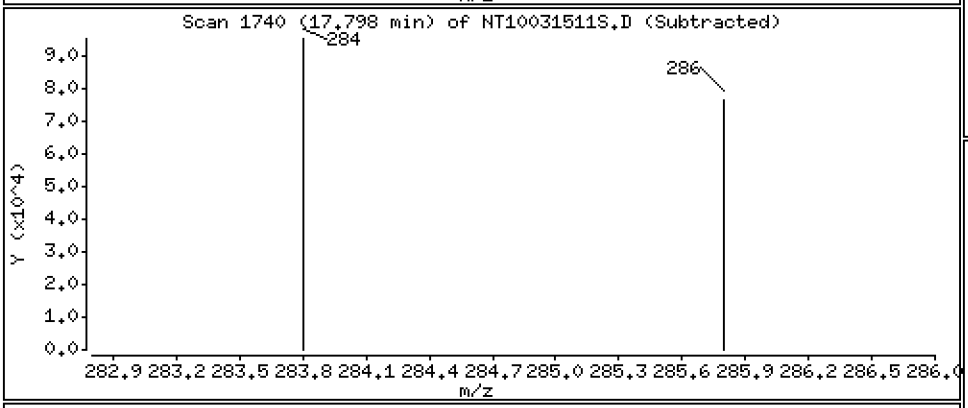
Column diameter: 0.25

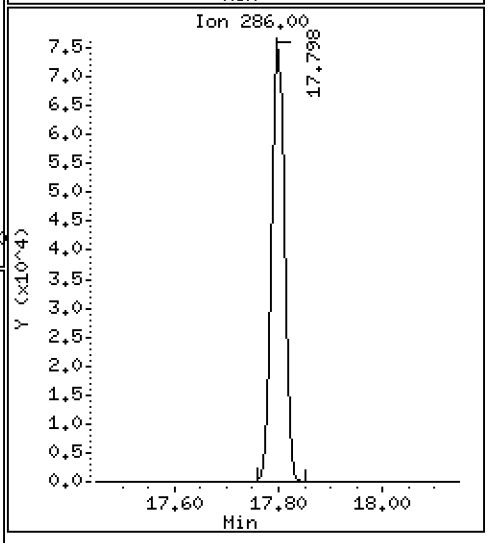
57 Hexachlorobenzene

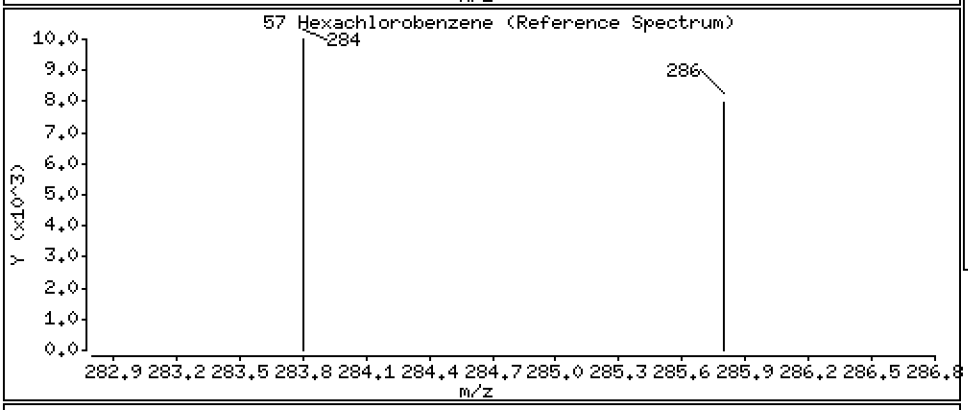
Concentration: 4.614 ug/L

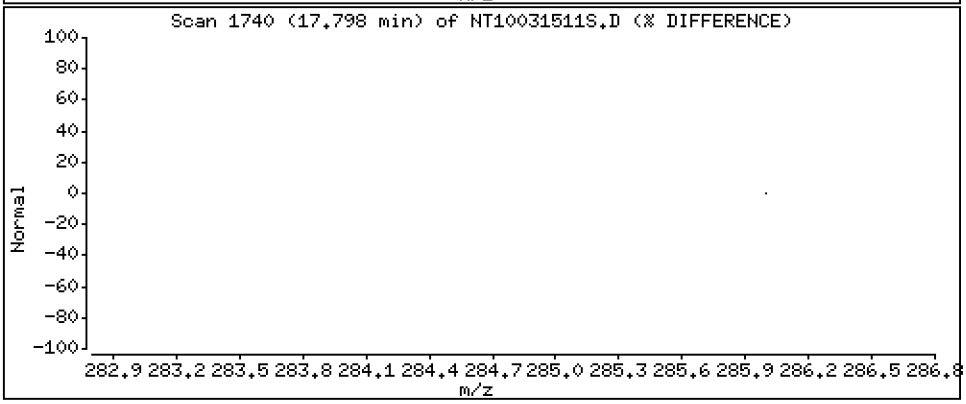












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

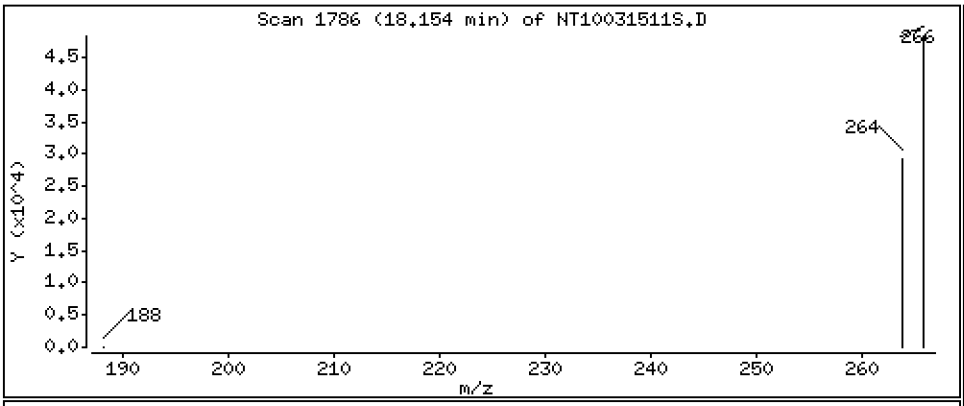
Operator: JGR

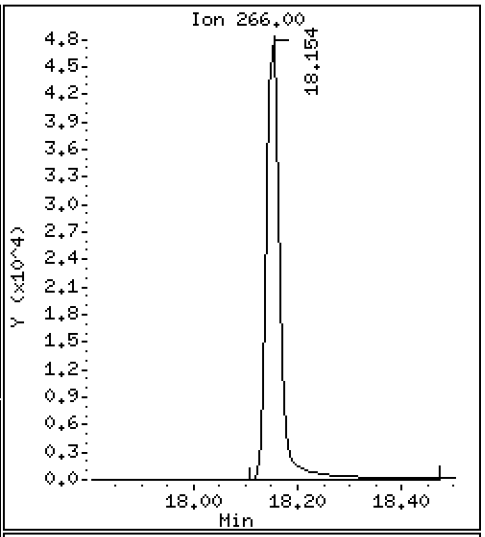
Column phase: ZB-5msi

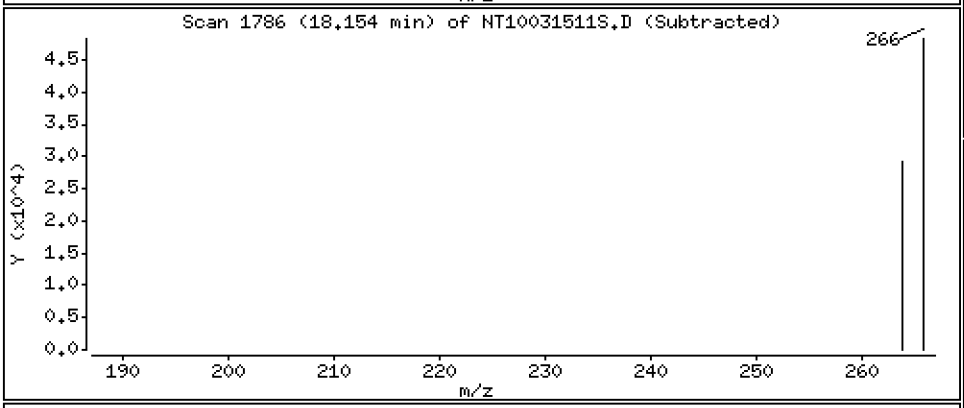
Column diameter: 0.25

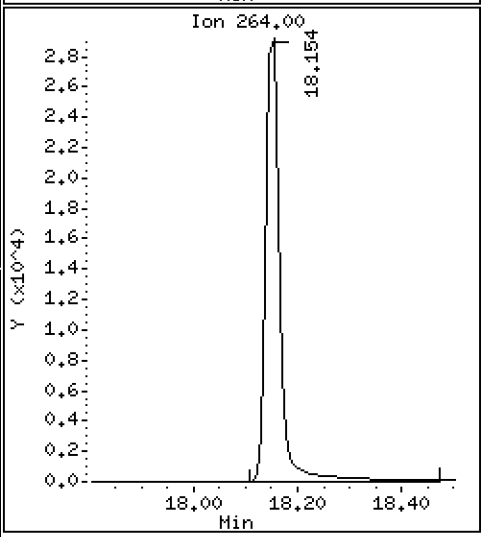
58 Pentachlorophenol

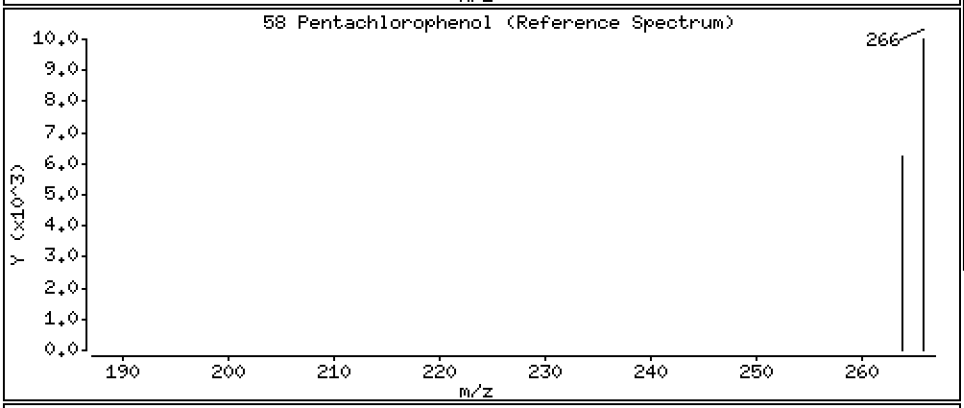
Concentration: 4.418 ug/L

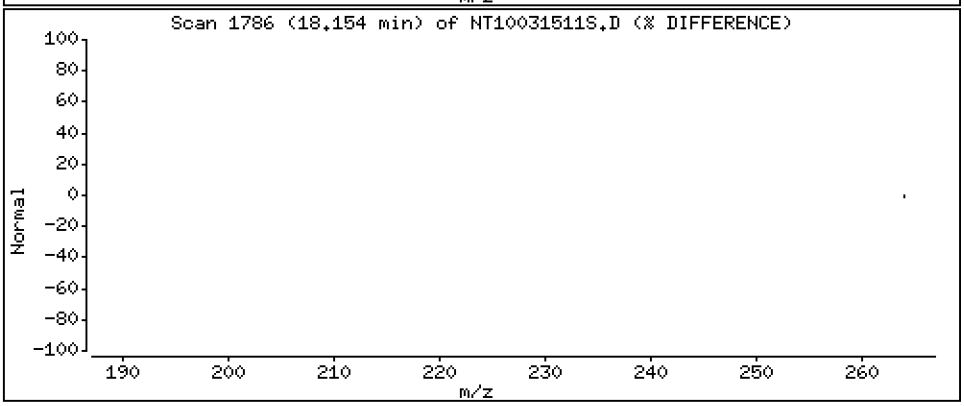












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

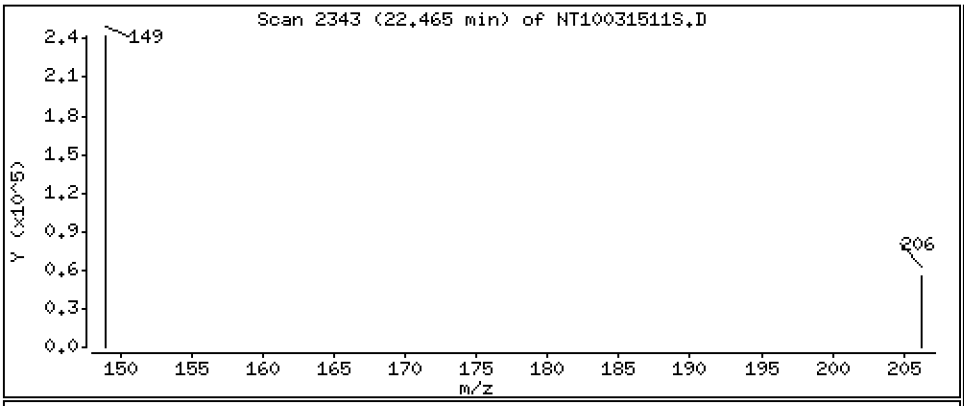
Operator: JGR

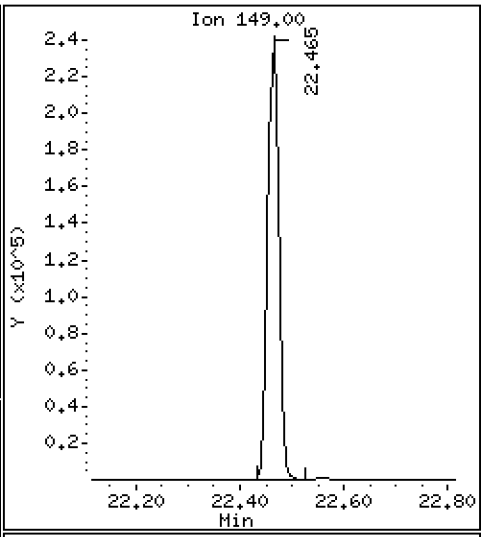
Column phase: ZB-5msi

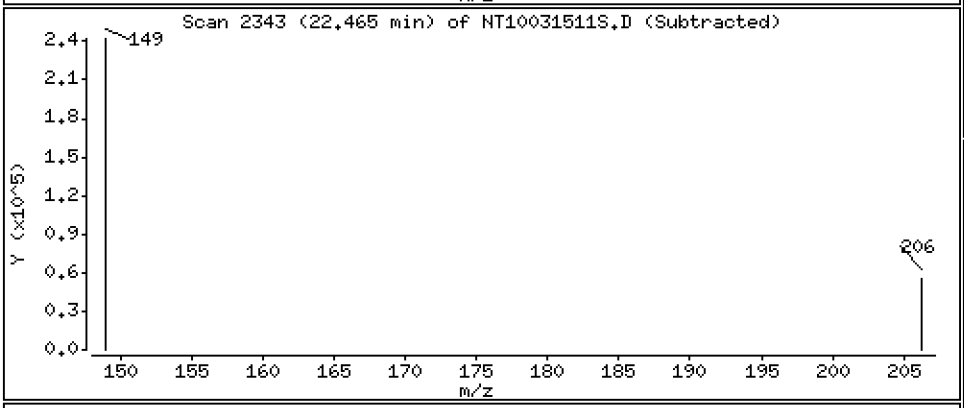
Column diameter: 0.25

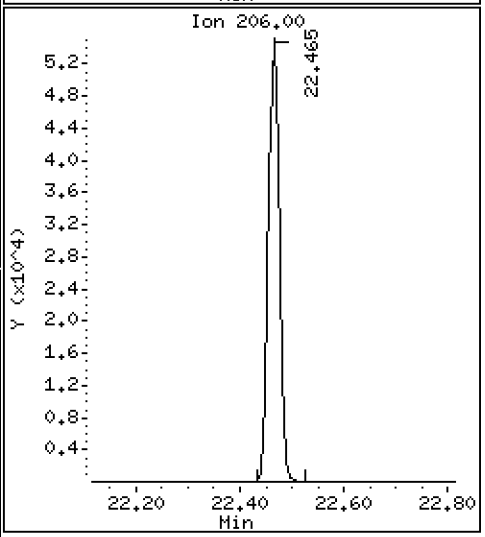
67 Butylbenzylphthalate

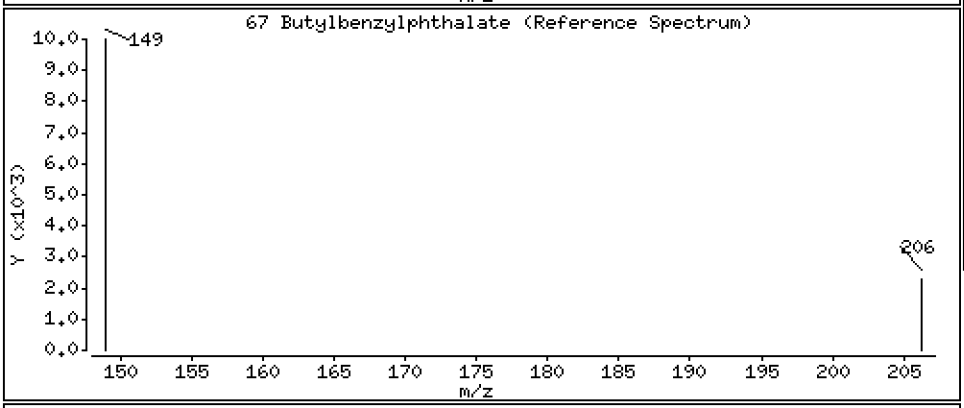
Concentration: 5.121 ug/L

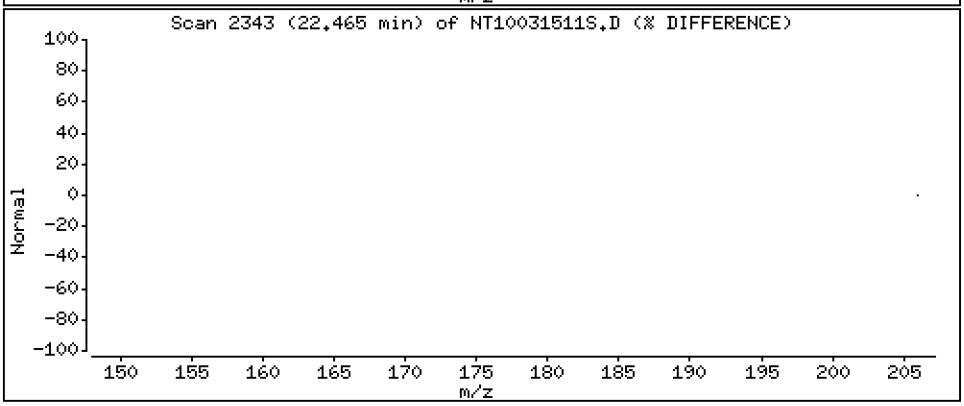












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

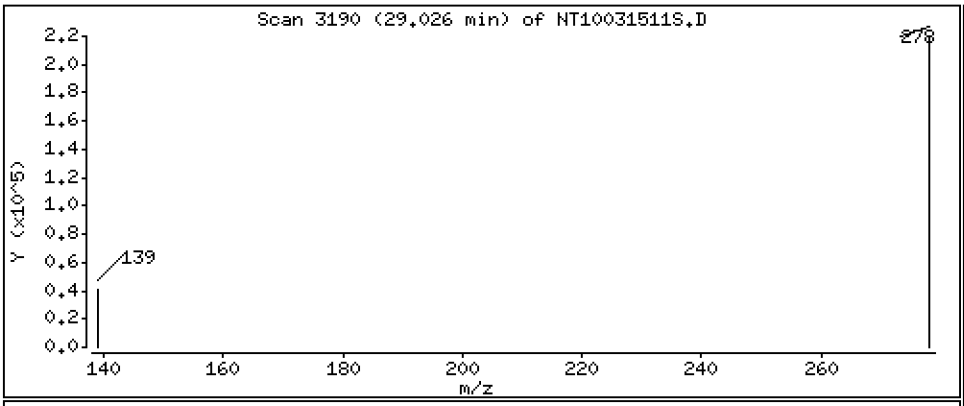
Operator: JGR

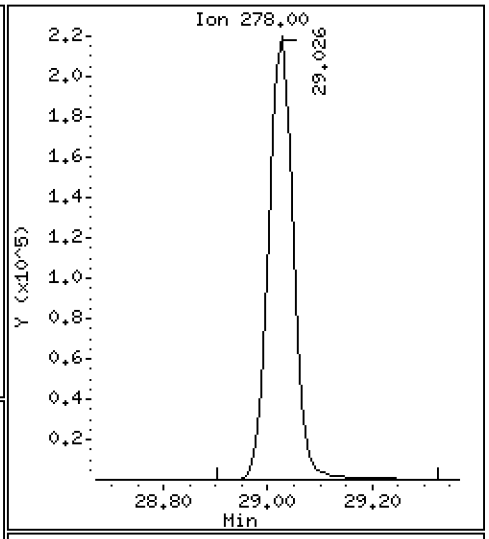
Column phase: ZB-5msi

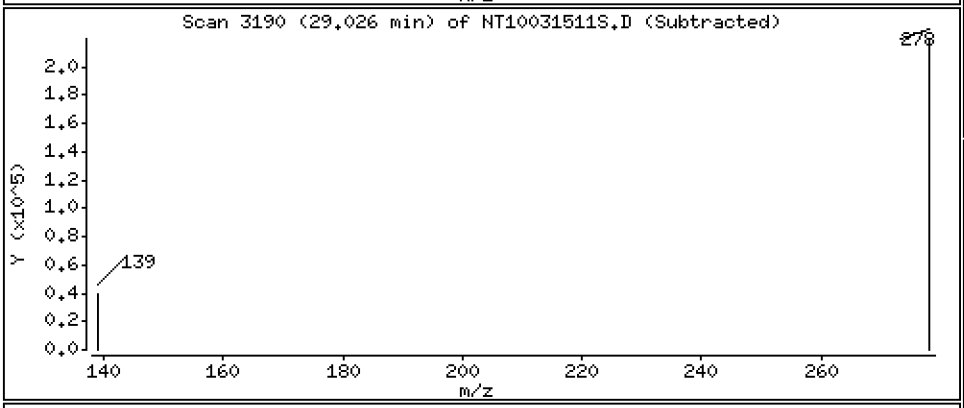
Column diameter: 0.25

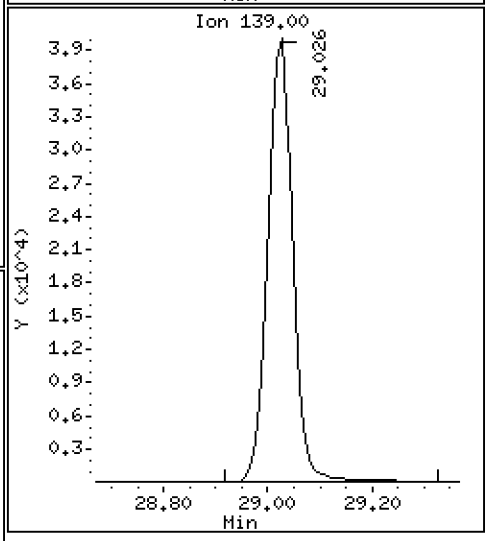
79 Dibenzo(a,h)anthracene

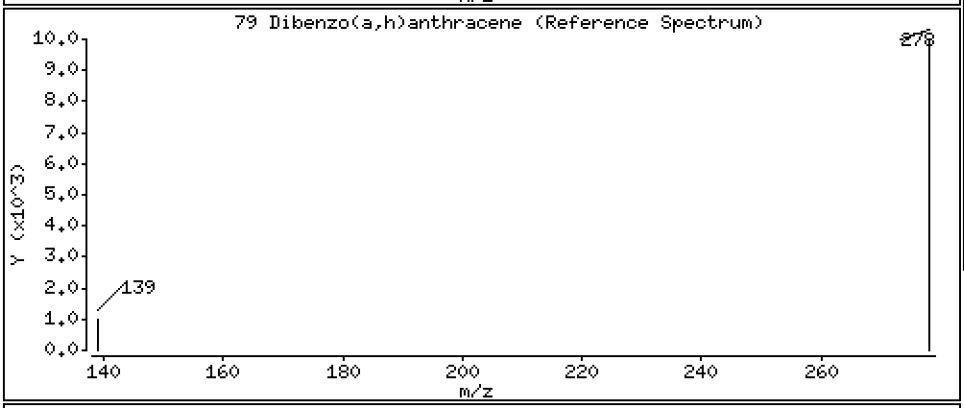
Concentration: 4.238 ug/L

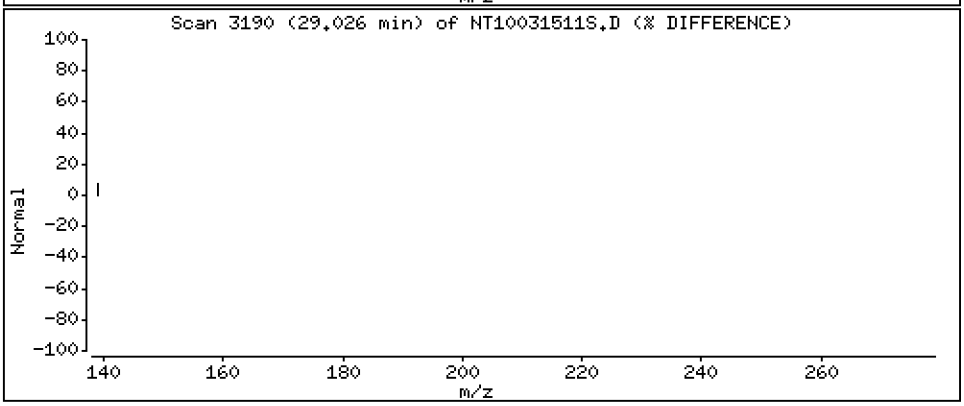












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

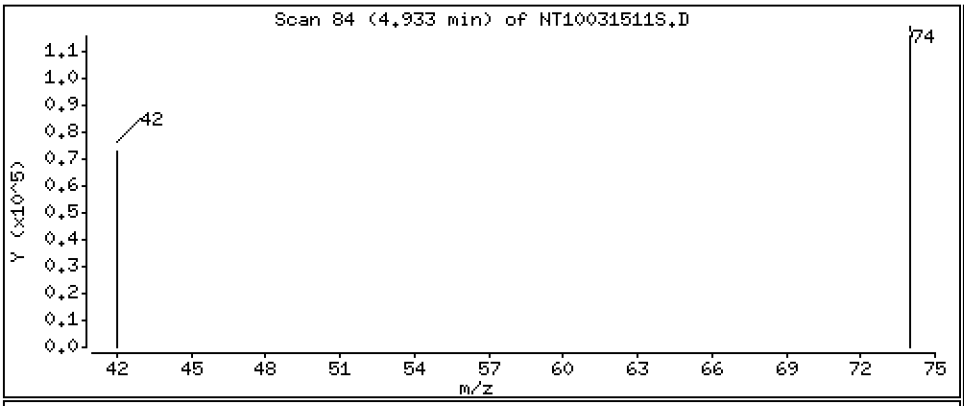
Operator: JGR

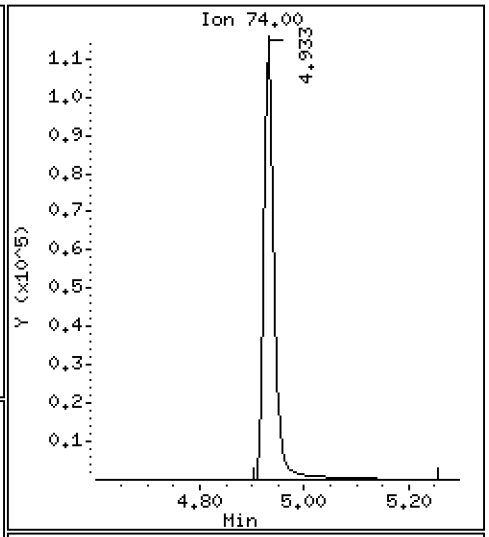
Column phase: ZB-5msi

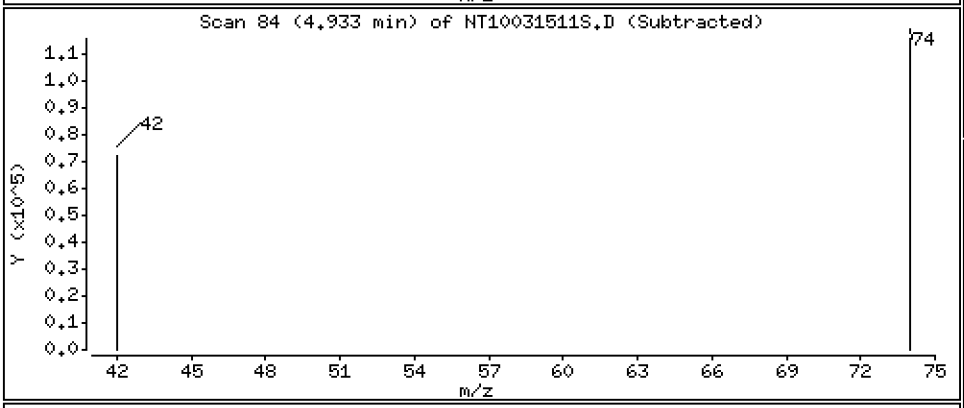
Column diameter: 0.25

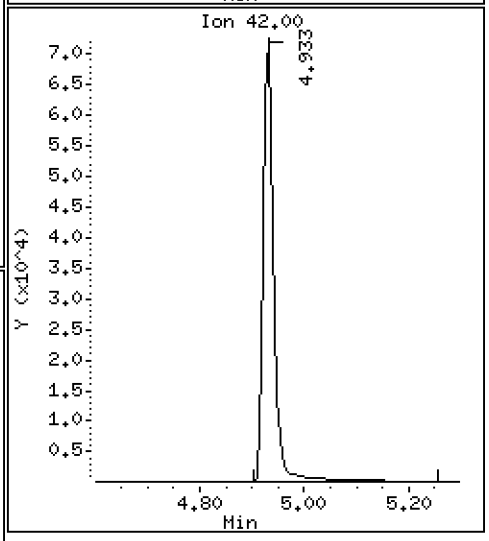
90 N-Nitrosodimethylamine

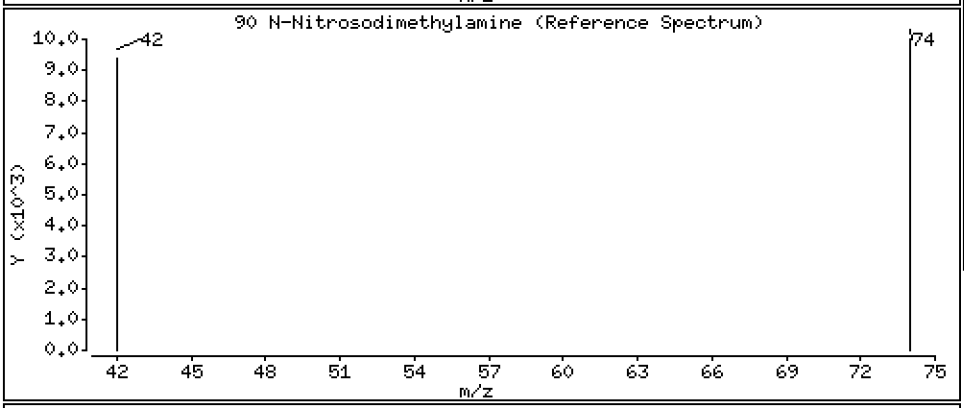
Concentration: 5.096 ug/L

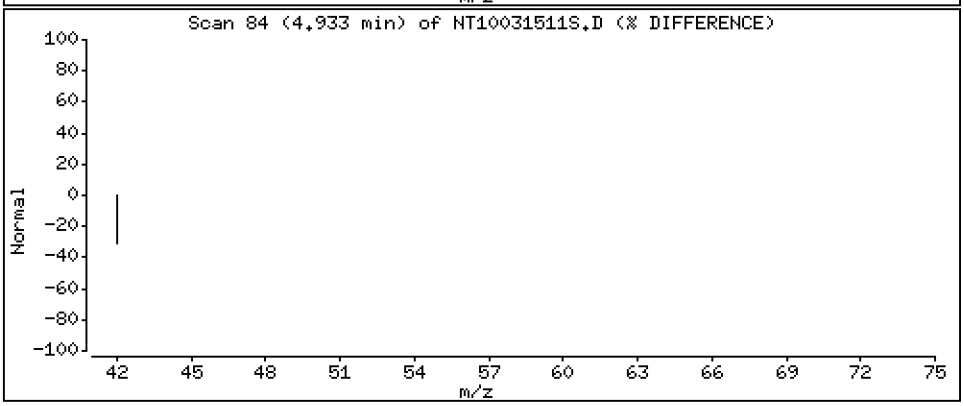












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D
Lab Smp Id: SLC0238-SCV1
Inj Date : 16-MAR-2023 02:16 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0238-SCV1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
$ 1	2-Fluorophenol	112	Compound Not Detected.					
3	Phenol	94	8.664	8.664	(0.931)	303581	4.37299	4.373
7	1,3-Dichlorobenzene	146	9.236	9.236	(0.992)	301605	4.64290	4.643
* 8	1,4-Dichlorobenzene-d4	152	9.306	9.298	(1.000)	166866	4.00000	
9	1,4-Dichlorobenzene	146	9.329	9.329	(1.002)	303390	4.83813	4.838
11	Benzyl alcohol	79	9.562	9.570	(1.028)	208505	5.18071	5.181
12	1,2-Dichlorobenzene	146	9.686	9.686	(1.041)	288539	4.67875	4.679
13	2-Methylphenol	108	9.772	9.772	(1.050)	201888	4.19698	4.197
15	4-Methylphenol	108	10.043	10.036	(1.079)	223083	4.46301	4.463
16	N-Nitroso-di-n-propylamine	70	10.121	10.113	(1.088)	186707	5.28174	5.282
22	2,4-Dimethylphenol	107	11.086	11.087	(0.942)	193654	3.66015	3.660
24	Benzoic acid	105	11.214	11.189	(0.952)	200487	6.74612	6.746
26	1,2,4-Trichlorobenzene	180	11.690	11.690	(0.993)	236605	4.44540	4.445
* 27	Naphthalene-d8	136	11.775	11.775	(1.000)	612104	4.00000	
30	Hexachlorobutadiene	225	12.169	12.169	(1.033)	150581	4.65339	4.653
39	Dimethylphthalate	163	14.877	14.877	(0.967)	472341	4.94766	4.948
* 42	Acenaphthene-d10	162	15.388	15.380	(1.000)	302524	4.00000	
50	Diethylphthalate	149	16.331	16.324	(1.061)	530540	5.36440	5.364
54	N-Nitrosodiphenylamine	169	16.725	16.717	(0.908)	377357	5.08034	5.080
57	Hexachlorobenzene	284	17.798	17.798	(0.966)	153405	4.61353	4.614

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	18.154	18.154	(0.985)	83223	4.41780	4.418
*	59 Phenanthrene-d10	188	18.425	18.417	(1.000)	553619	4.00000	
$	66 Terphenyl-d14	244	21.543	21.543	(0.918)	117	0.00154	0.001543(RM)
	67 Butylbenzylphthalate	149	22.464	22.465	(0.958)	332887	5.12147	5.121
*	69 Chrysene-d12	240	23.455	23.455	(1.000)	465428	4.00000	
*	77 Perylene-d12	264	26.188	26.188	(1.000)	532593	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.026	29.019	(1.108)	722983	4.23762	4.238
	90 N-Nitrosodimethylamine	74	4.933	4.948	(0.530)	163555	5.09625	5.096

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031511S.D
Lab Smp Id: SLC0238-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 23:06
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	188081	94041	376162	166866	-11.28
27 Naphthalene-d8	674549	337275	1349098	612104	-9.26
42 Acenaphthene-d10	328275	164138	656550	302524	-7.84
59 Phenanthrene-d10	597140	298570	1194280	553619	-7.29
69 Chrysene-d12	466503	233252	933006	465428	-0.23
77 Perylene-d12	518203	259102	1036406	532593	2.78

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.31	0.08
27 Naphthalene-d8	11.77	11.27	12.27	11.78	0.01
42 Acenaphthene-d10	15.39	14.89	15.89	15.39	0.01
59 Phenanthrene-d10	18.42	17.92	18.92	18.43	0.00
69 Chrysene-d12	23.45	22.95	23.95	23.46	0.00
77 Perylene-d12	26.19	25.69	26.69	26.19	0.00

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

REVIEW SUMMARY FOR FILE - NT10031511S.D

Lab ID: SLC0238-SCV1
nt10.i, 20230315.b\20230315.b\SIMABN2.m,   16-MAR-2023 02:16

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.952	0.000	0.9524	Benzoic acid

RRT check based on Ccal File: 20230315.b/NT10031510S.D

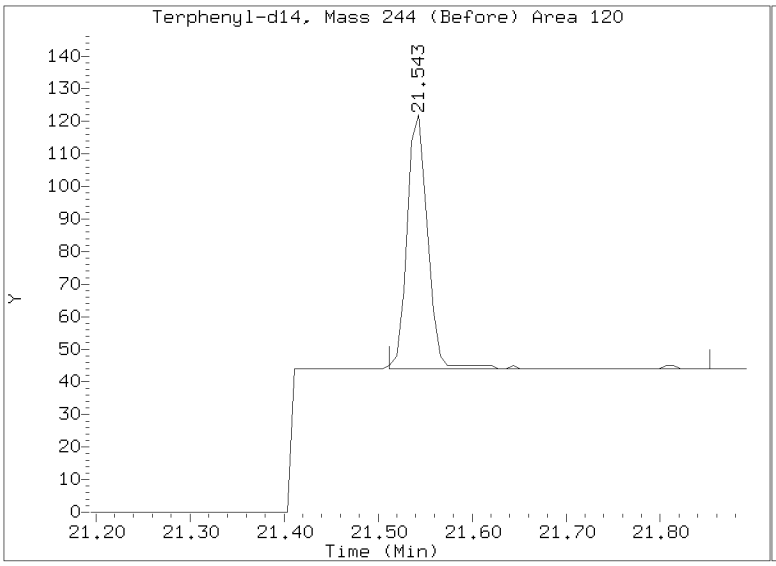
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

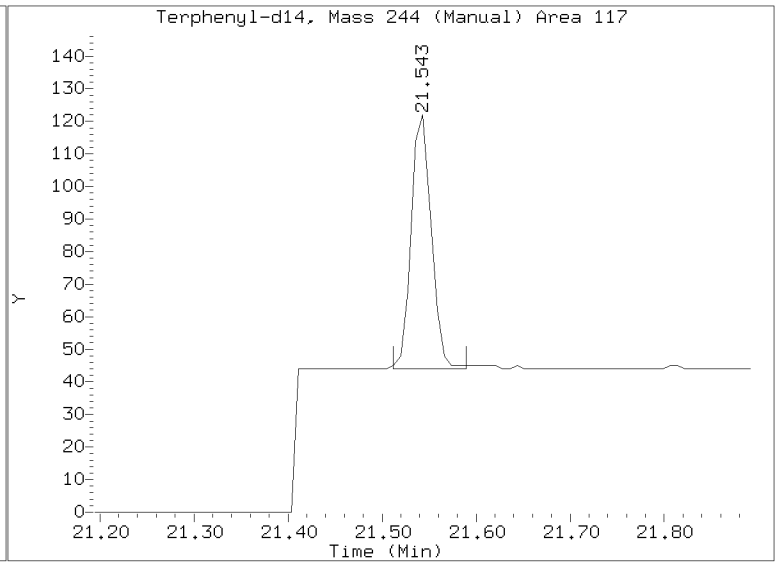
Exception: 1,2,4-Trichlorobenzene 0.0010

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031511S.D
Injection Date: 16-MAR-2023 02:16
Lab ID:SLC0238-SCV1 Client ID:
Report Date: 03/16/2023 14:49





Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GC00049
Lab File ID:	NT1004192350S.D	Calibration Date:	03/15/2023
Sequence:	SLD0302	Injection Date:	04/20/23
Lab Sample ID:	SLD0302-CCV1	Injection Time:	18:28
Sequence Name:	Calibration Check		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
1,4-Dichlorobenzene	A	1.0000	1.0	1.5031980	1.4360360		-4.5	+/-50
1,2-Dichlorobenzene	A	1.0000	0.9	1.4783140	1.3894400		-6.0	+/-50
Benzyl Alcohol	A	1.0000	1.0	0.9647610	0.9524323		-1.3	+/-50
Benzoic acid	A	4.0000	3.3	0.1358970	0.1589688		-17.0	+/-50
2,4-Dimethylphenol	A	2.0000	2.0	0.3457498	0.3377115		-2.3	+/-50
1,2,4-Trichlorobenzene	A	1.0000	1.0	0.3478148	0.3452896		-0.7	+/-50
N-Nitrosodiphenylamine	A	1.0000	1.0	0.5366720	0.5282857		-1.6	+/-50
Pentachlorophenol	A	2.0000	1.8	0.0934250	0.1177897		-12.1	+/-50
2-Fluorophenol	A	1.5000	1.35	1.2129820	1.0893100		-10.2	+/-50
p-Terphenyl-d14	A	1.0000	0.758	0.6517430	0.4938887		-24.2	+/-50

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT10041923505.D

Date : 20-APR-2023 18:28

Client ID:

Instrument: nt10.i

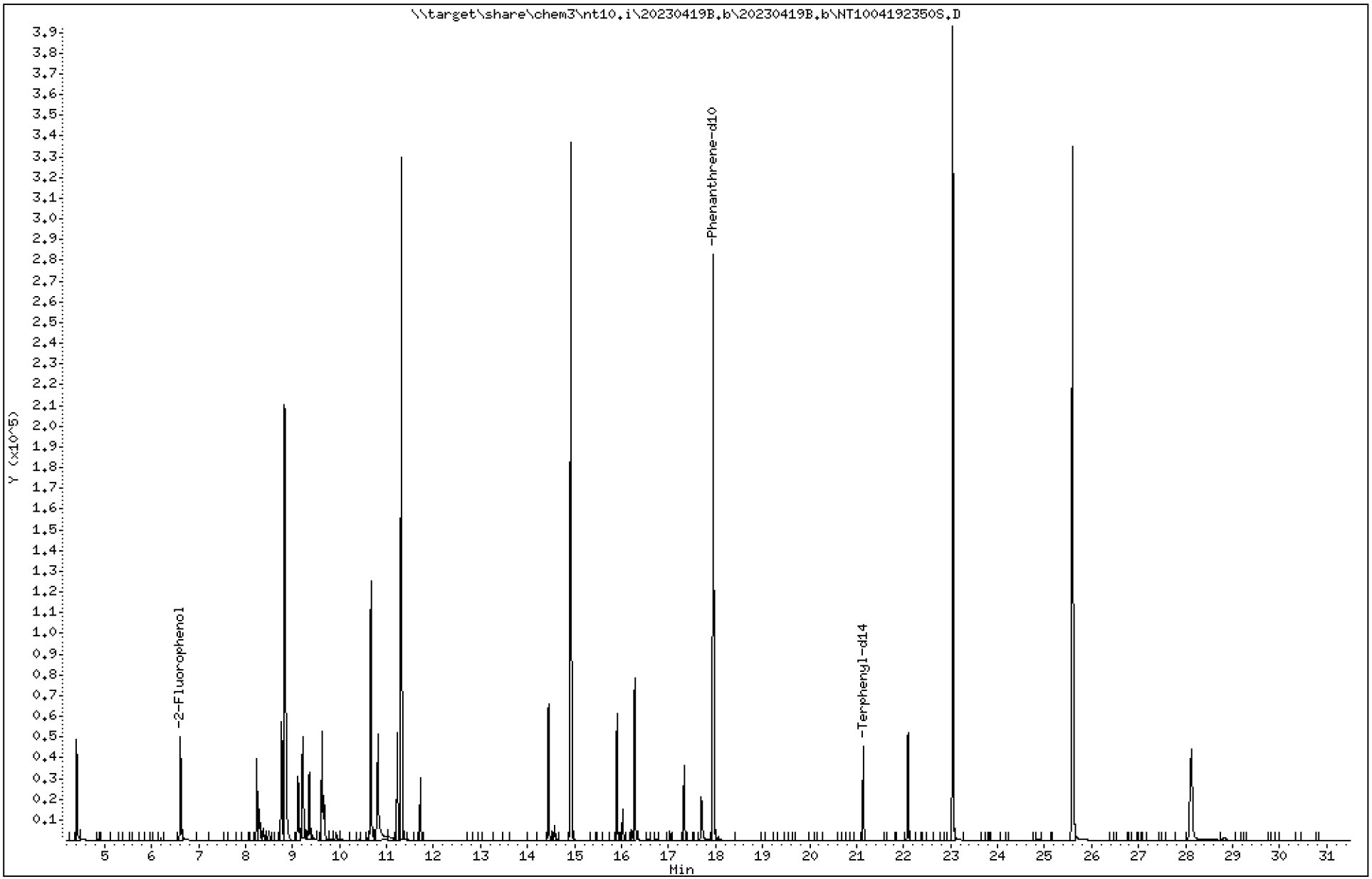
Sample Info: SLD0302-CCV1

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 20-APR-2023 18:28

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-CCV1

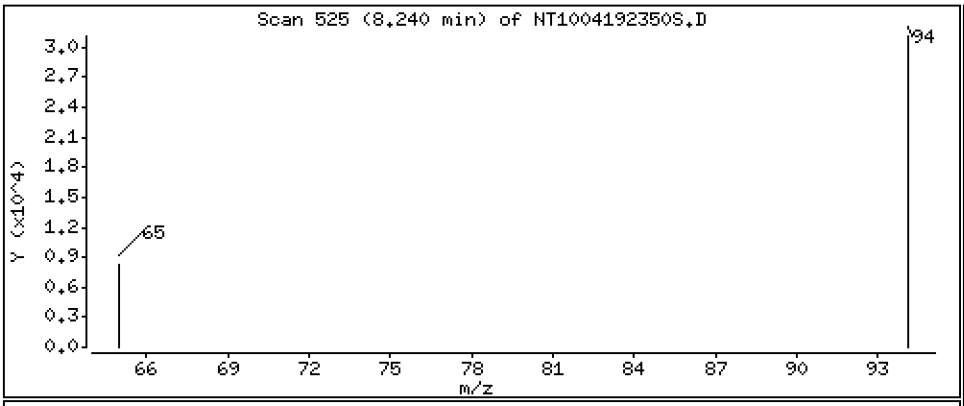
Volume Injected (uL): 1.0

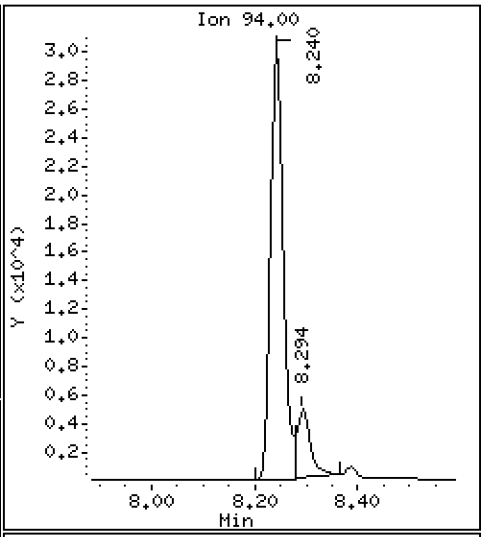
Operator: DSD

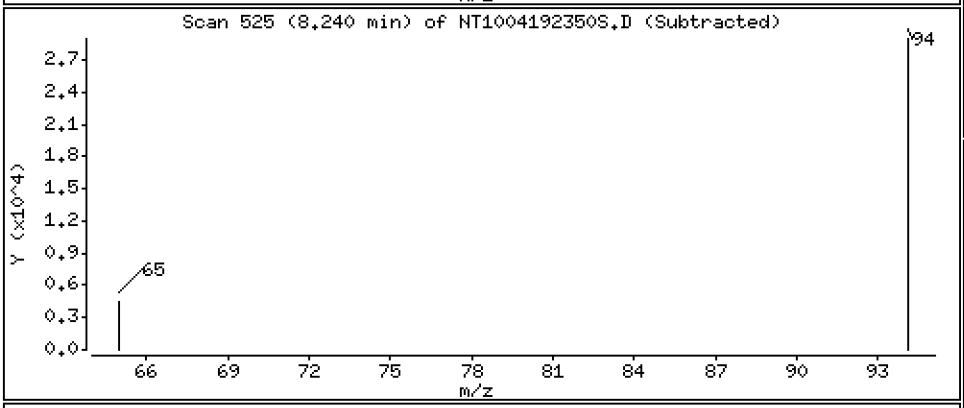
Column phase: ZB-5msi

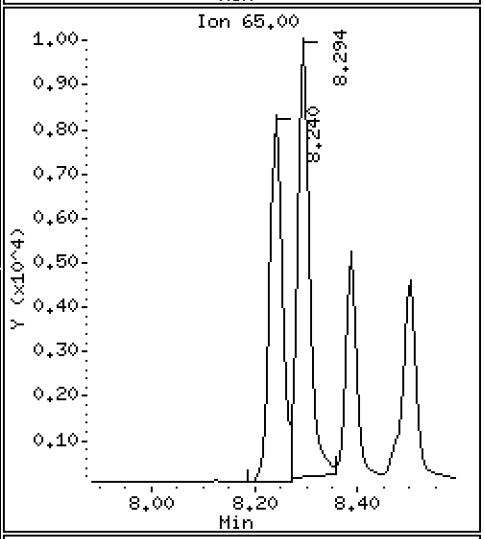
Column diameter: 0.25

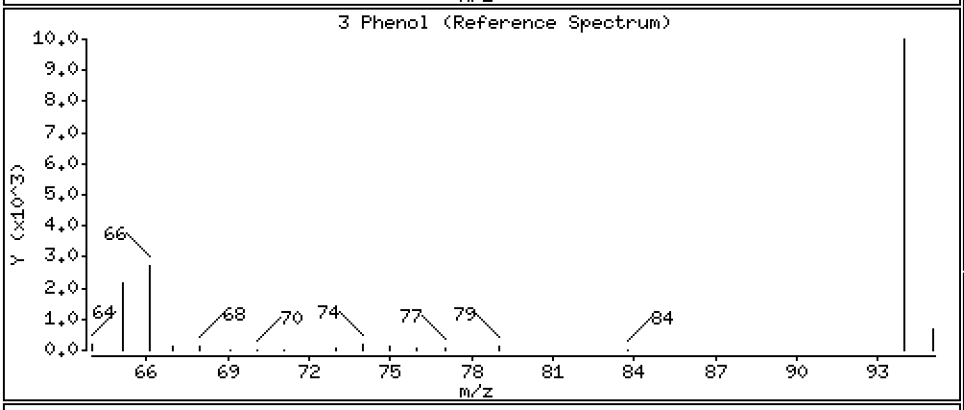
3 Phenol

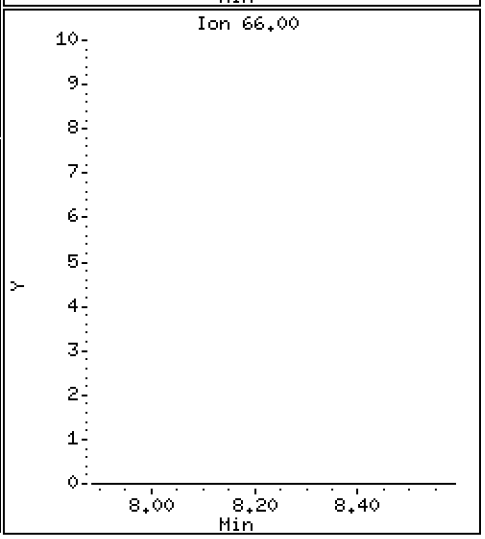


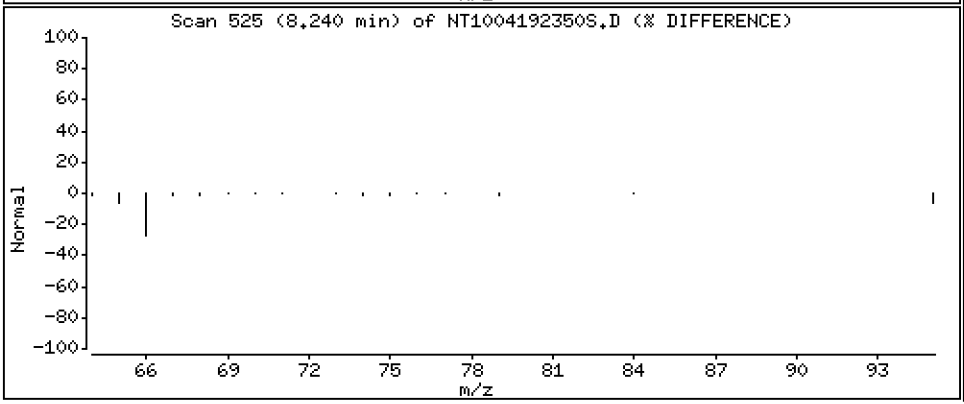












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Date : 20-APR-2023 18:28

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-CCV1

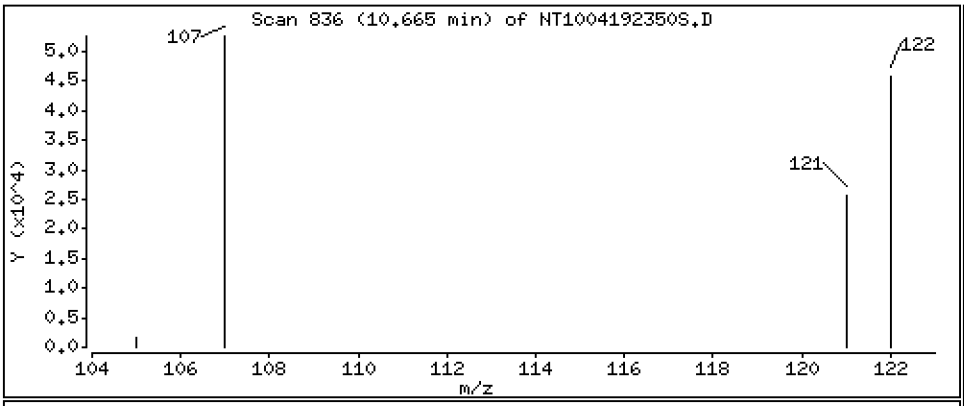
Volume Injected (uL): 1.0

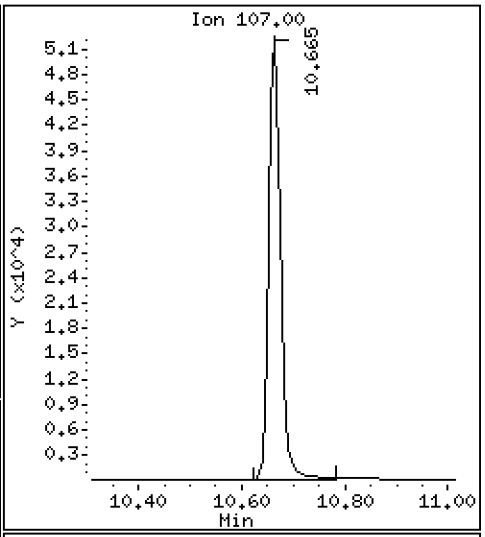
Operator: DSD

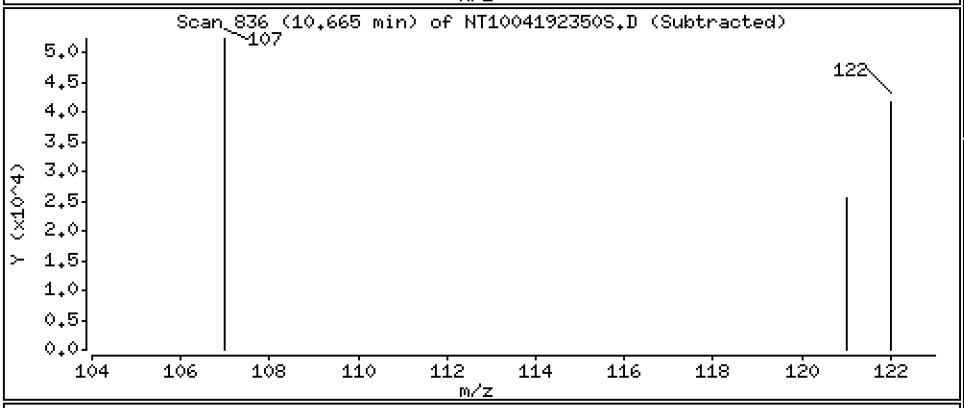
Column phase: ZB-5msi

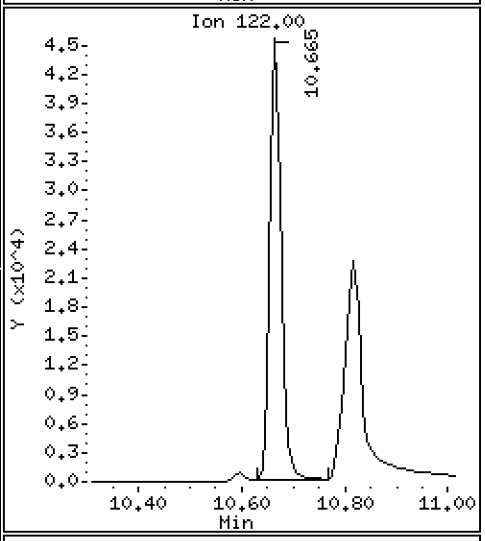
Column diameter: 0.25

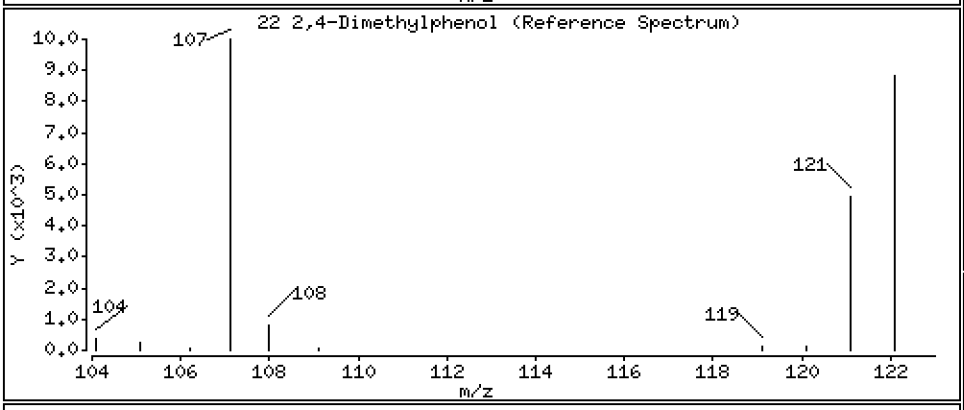
22 2,4-Dimethylphenol

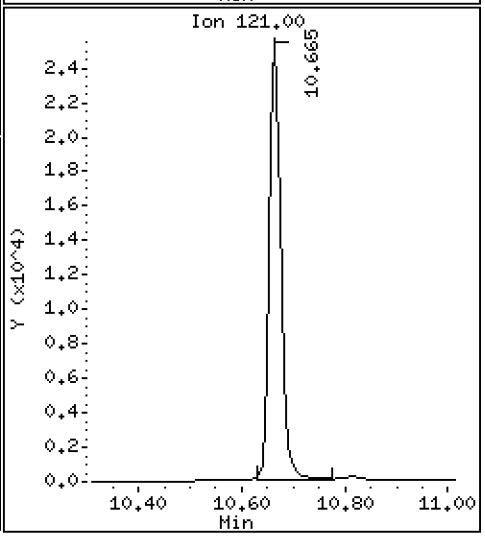


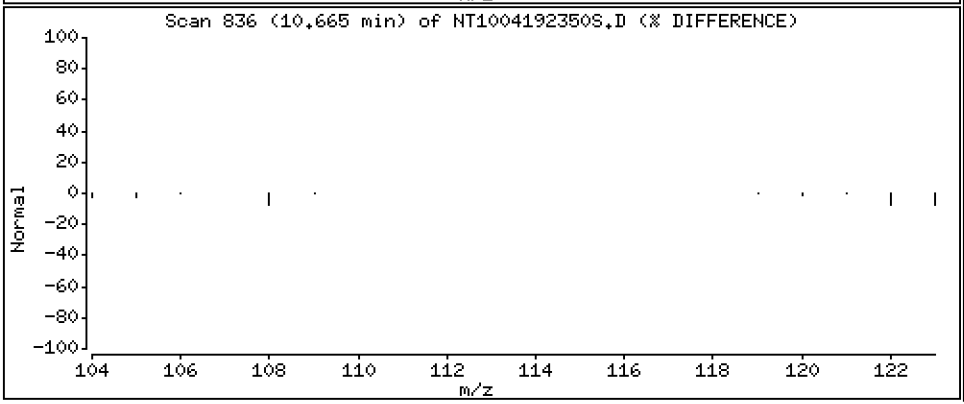












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Date : 20-APR-2023 18:28

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-CCV1

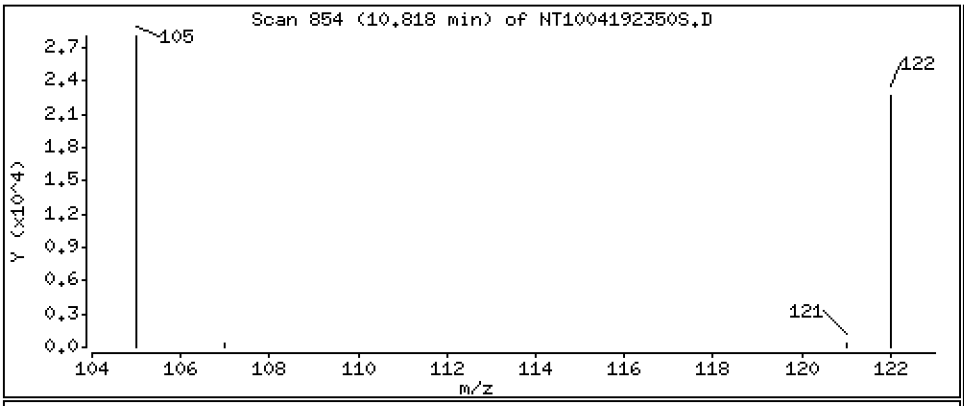
Volume Injected (uL): 1.0

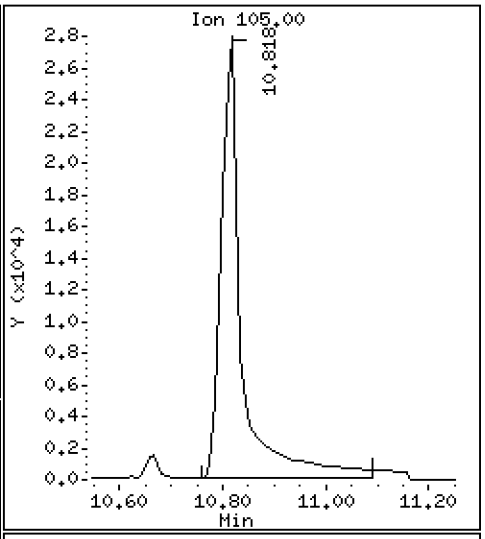
Operator: DSD

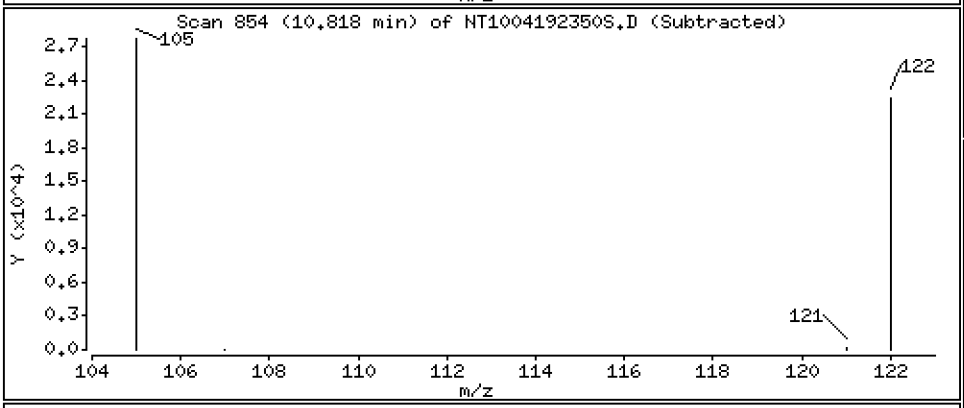
Column phase: ZB-5msi

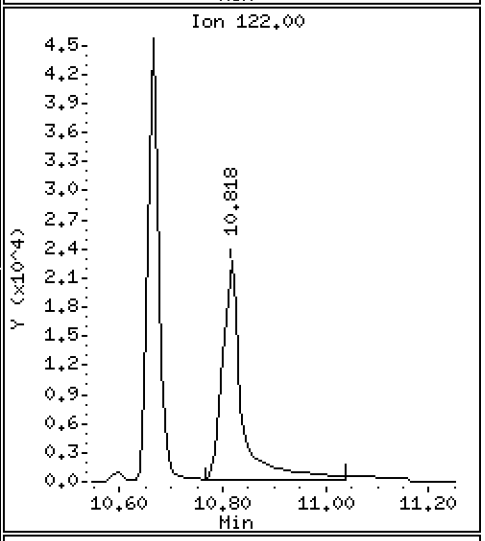
Column diameter: 0.25

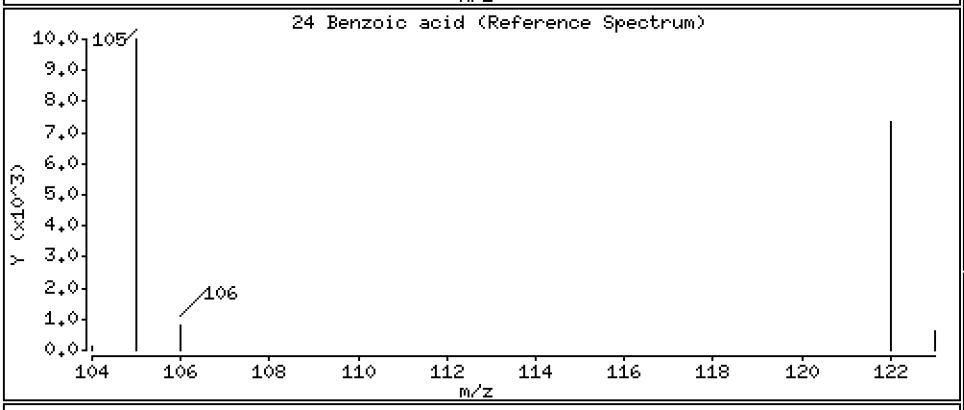
24 Benzoic acid

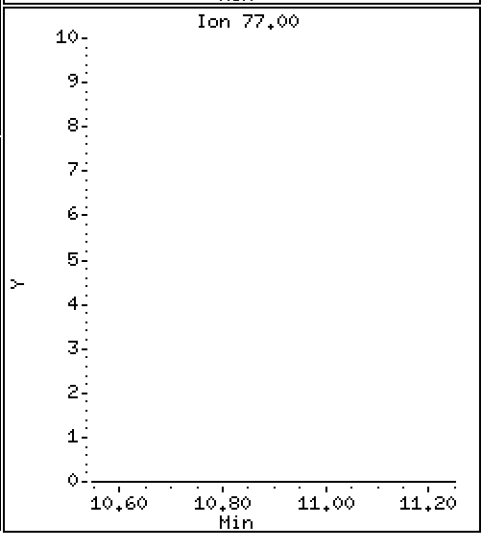


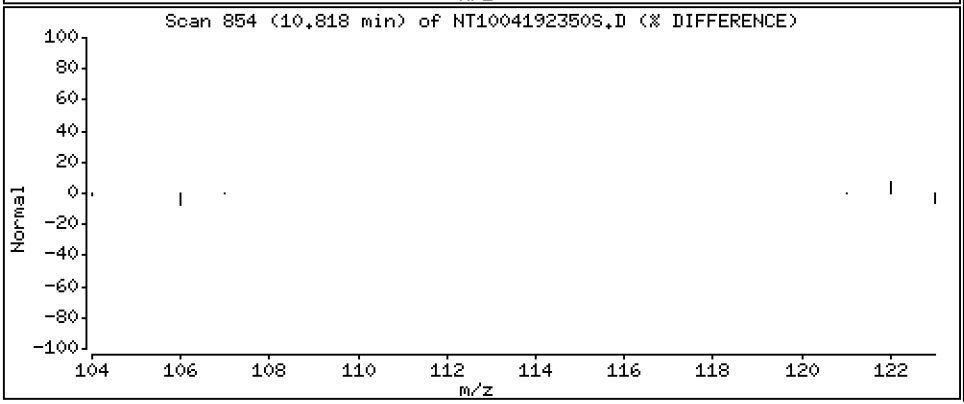












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Date : 20-APR-2023 18:28

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-CCV1

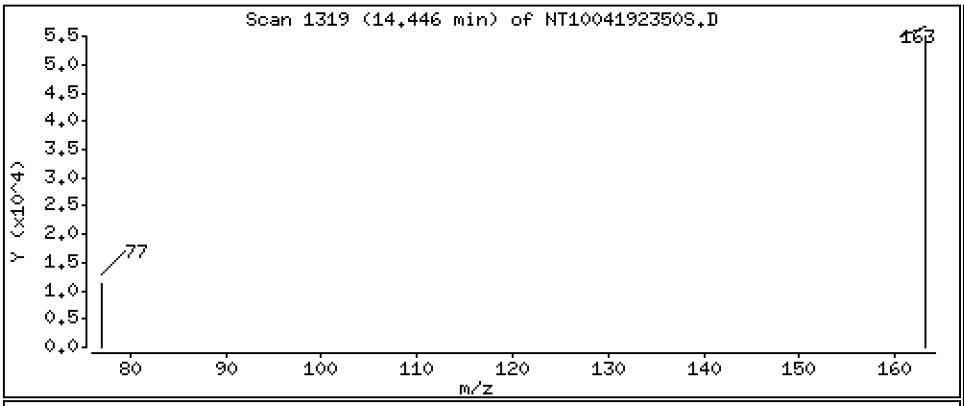
Volume Injected (uL): 1.0

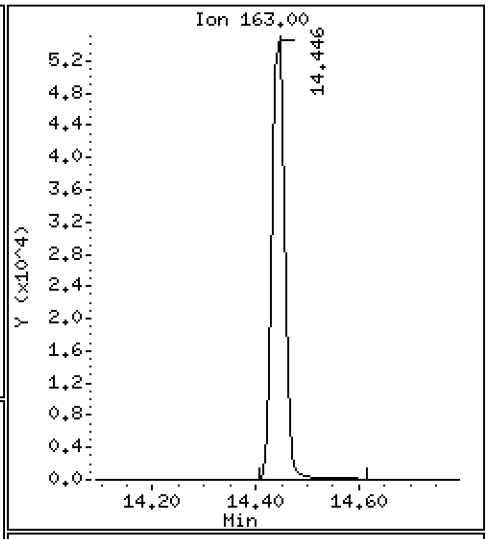
Operator: DSD

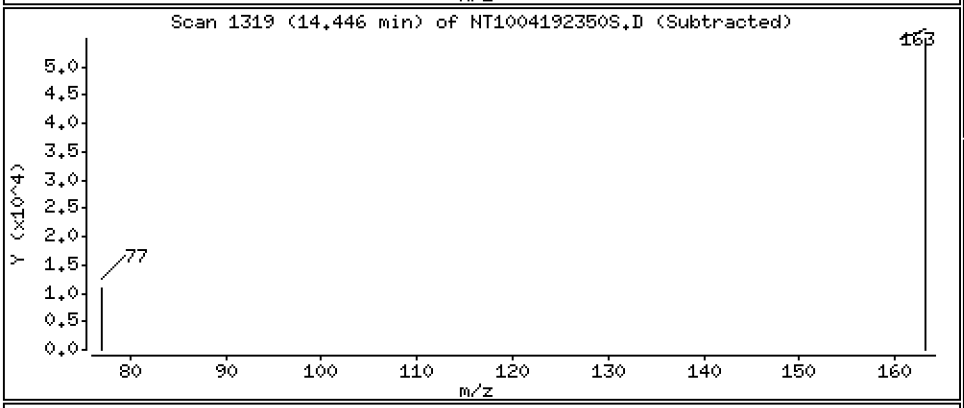
Column phase: ZB-5msi

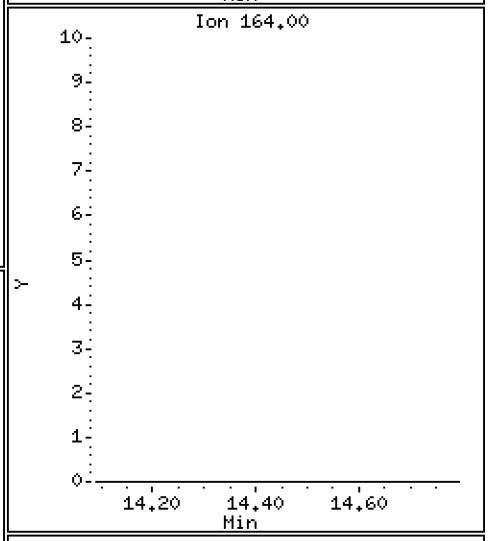
Column diameter: 0.25

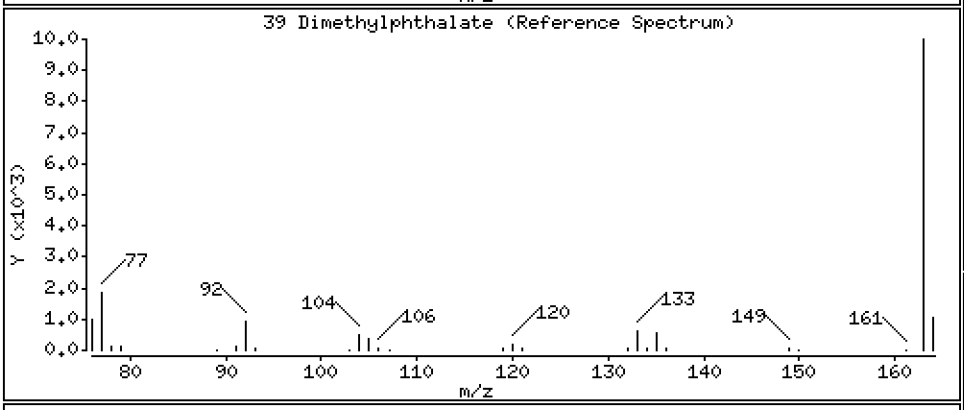
39 Dimethylphthalate

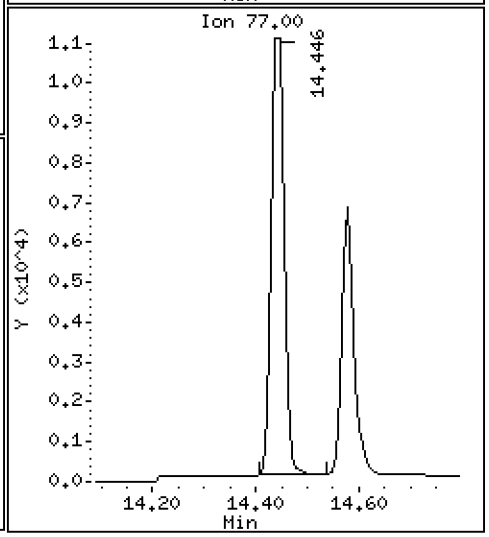


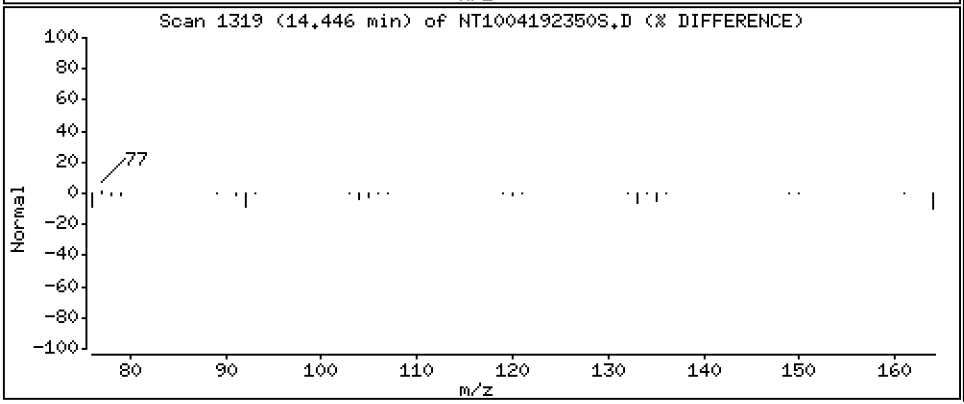












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Date : 20-APR-2023 18:28

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-CCV1

Volume Injected (uL): 1.0

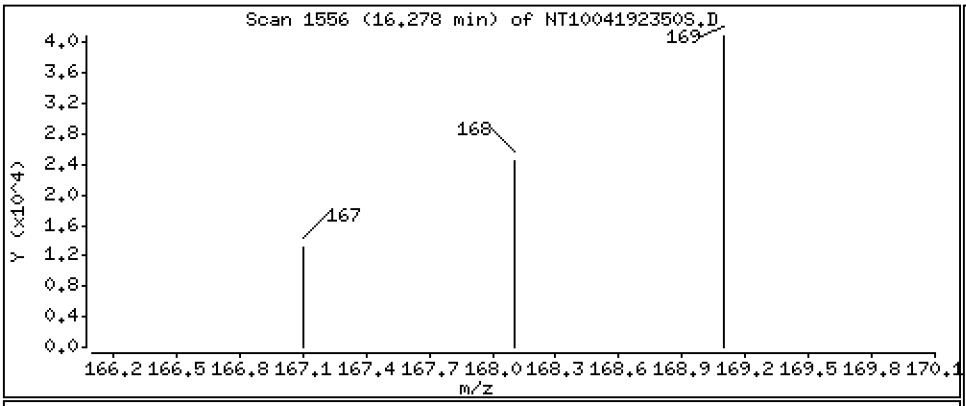
Operator: DSD

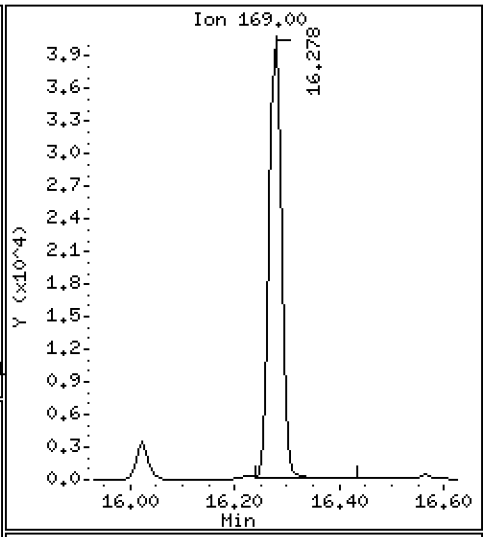
Column phase: ZB-5msi

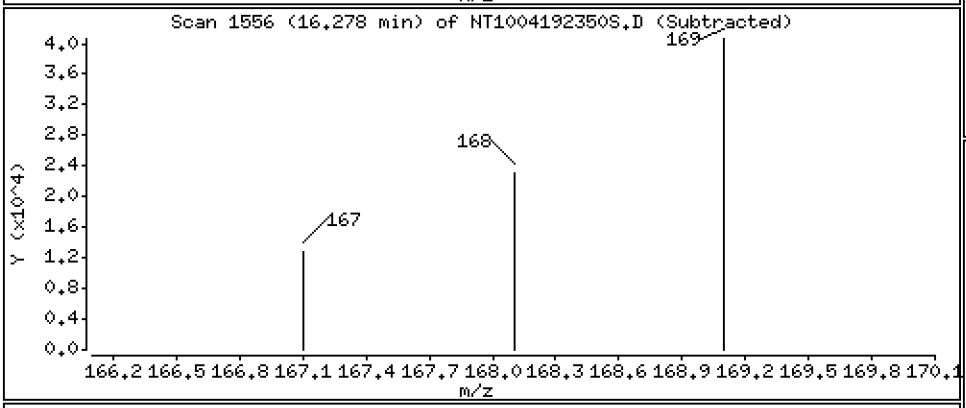
Column diameter: 0.25

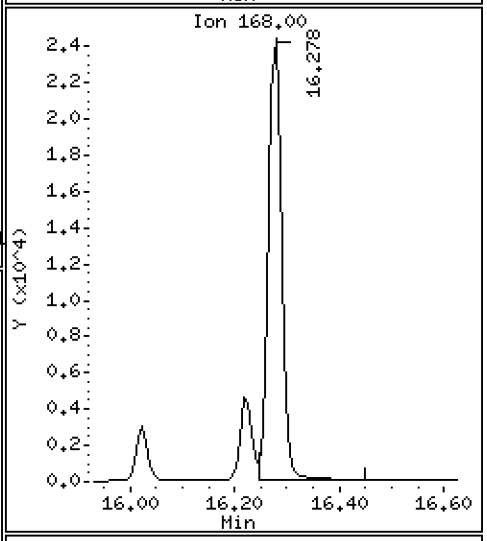
54 N-Nitrosodiphenylamine

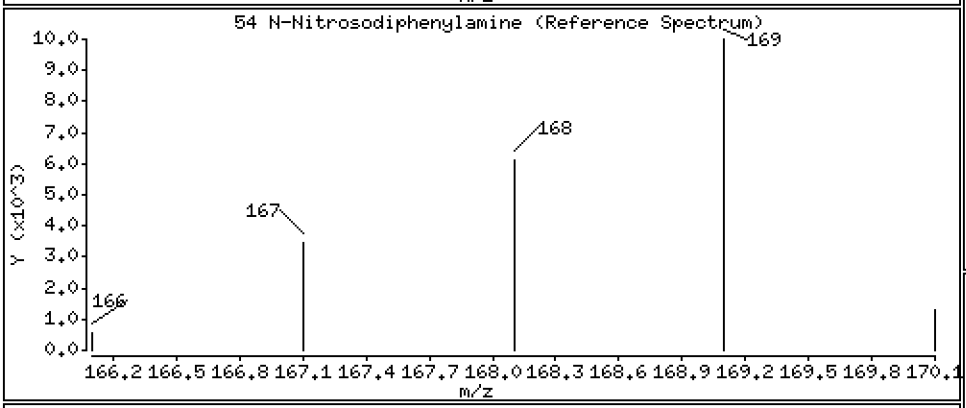
Concentration: 1.004 ug/L

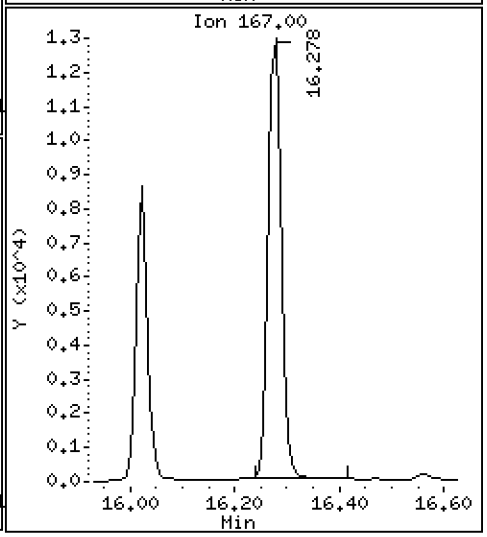


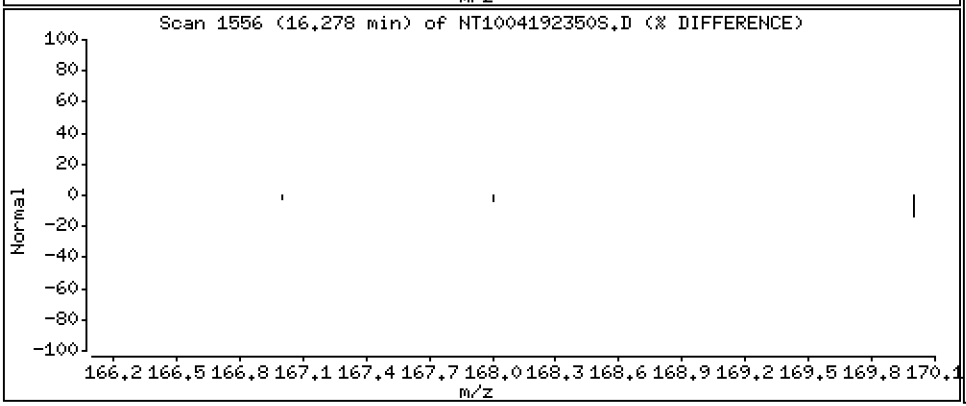












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Date : 20-APR-2023 18:28

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-CCV1

Volume Injected (uL): 1.0

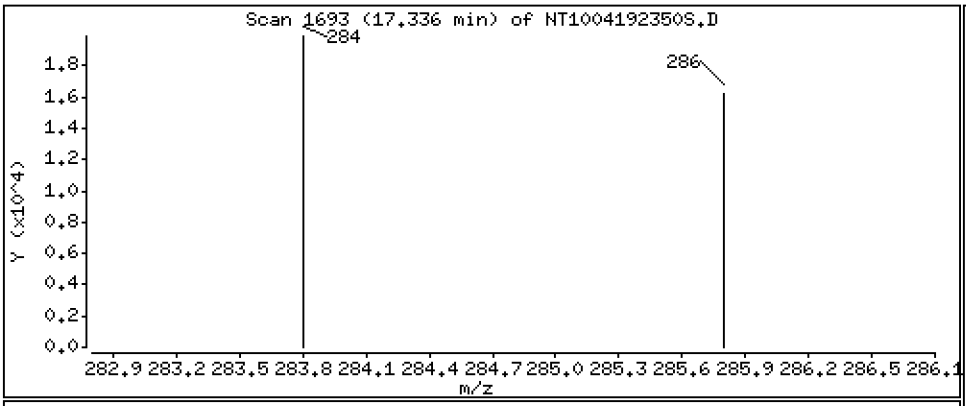
Operator: DSD

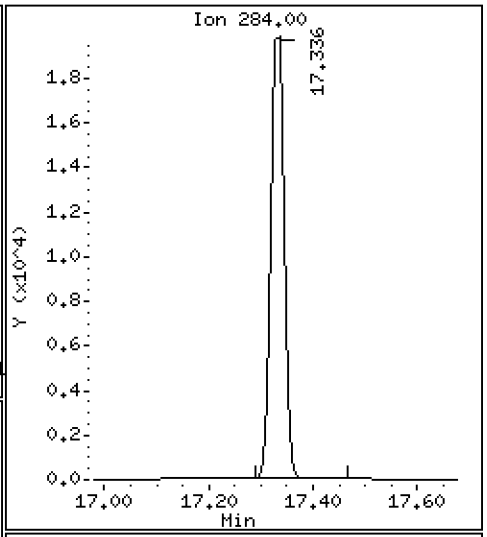
Column phase: ZB-5msi

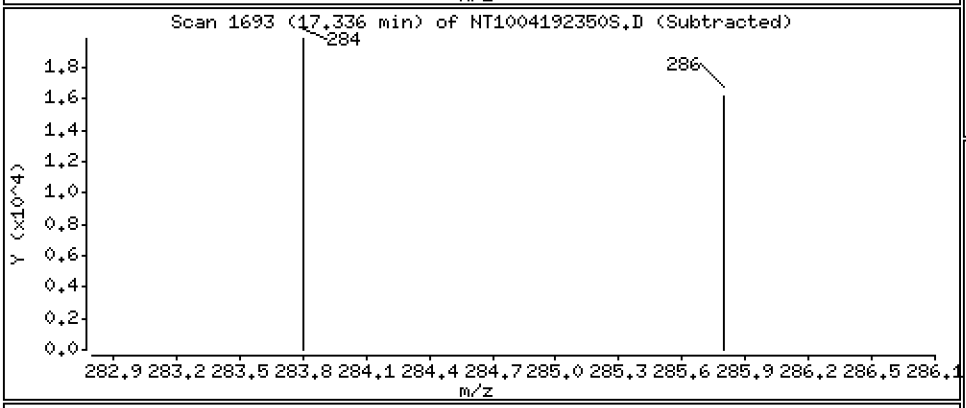
Column diameter: 0.25

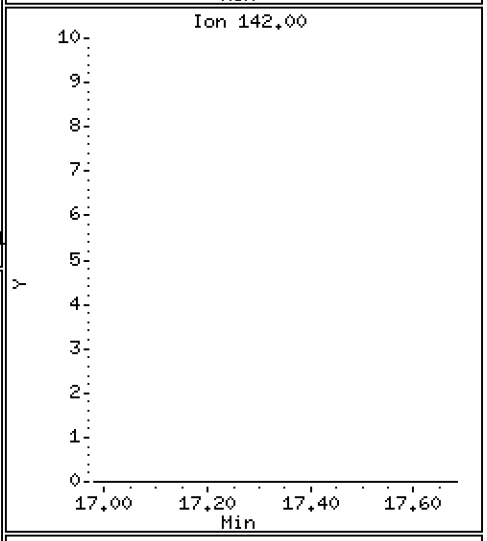
57 Hexachlorobenzene

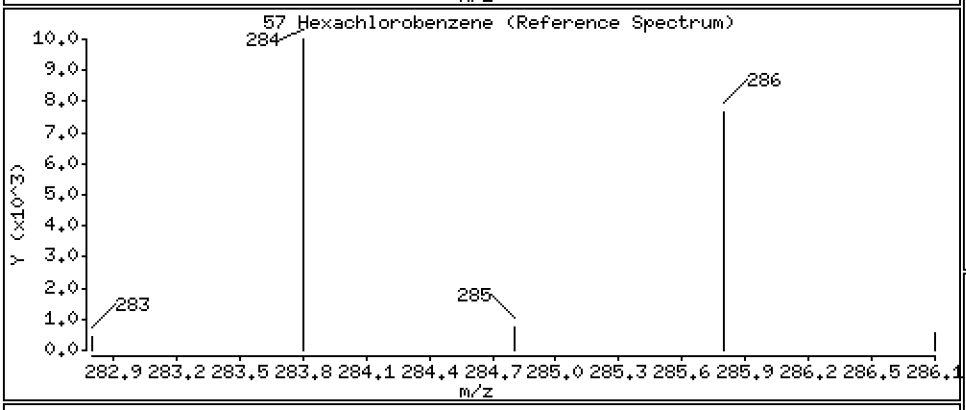
Concentration: 1.194 ug/L

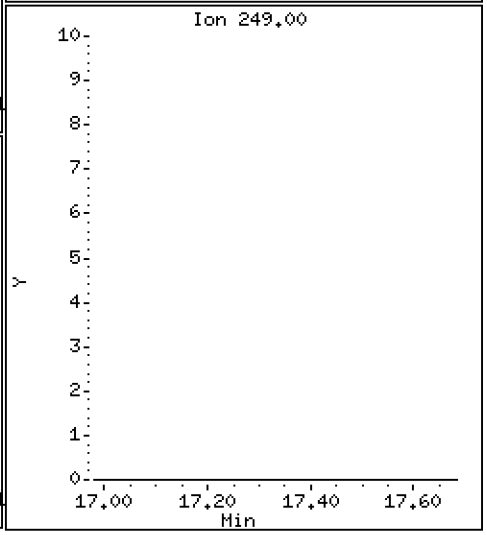


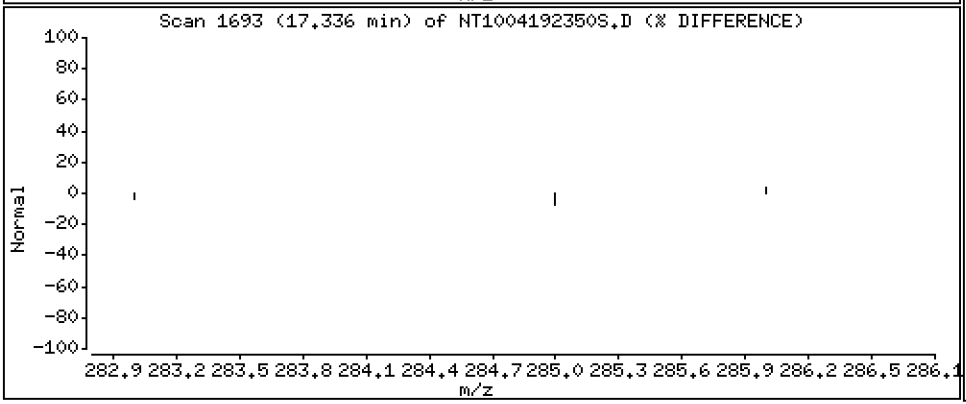












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Date : 20-APR-2023 18:28

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-CCV1

Volume Injected (uL): 1.0

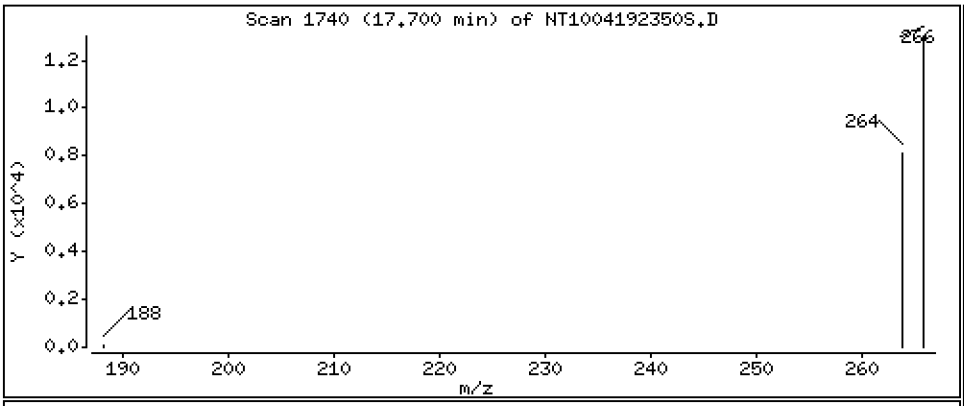
Operator: DSD

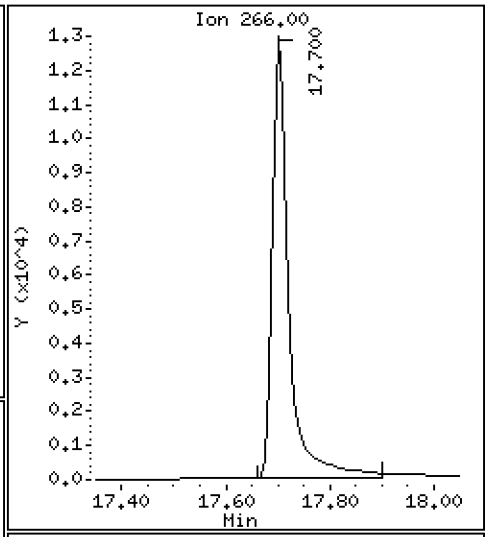
Column phase: ZB-5msi

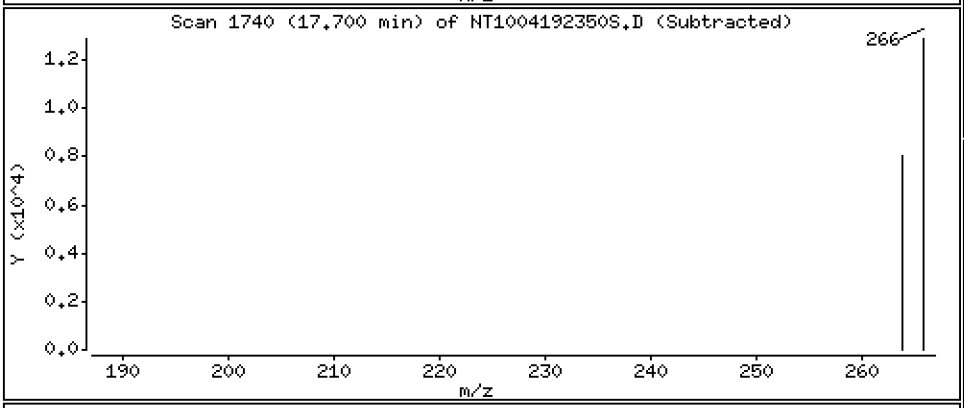
Column diameter: 0.25

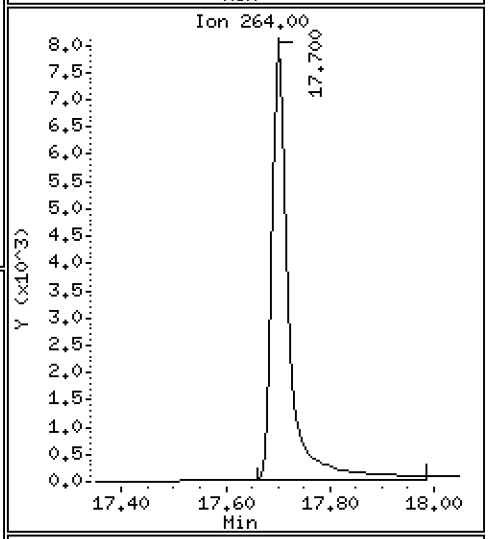
58 Pentachlorophenol

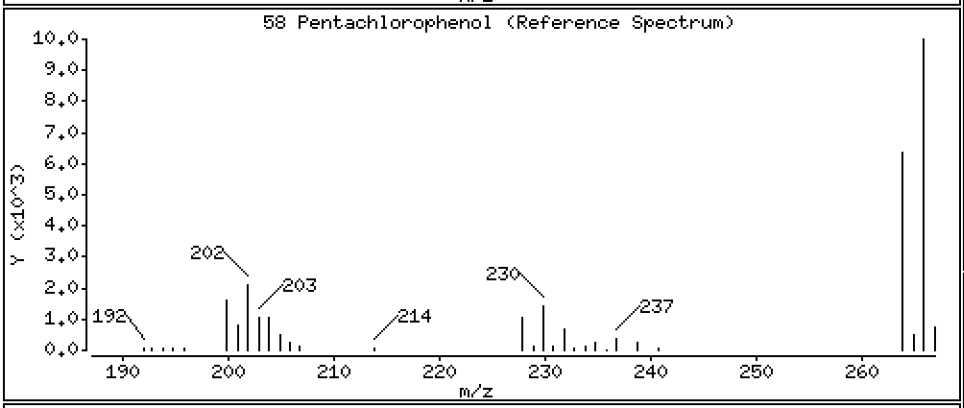
Concentration: 1.649 ug/L

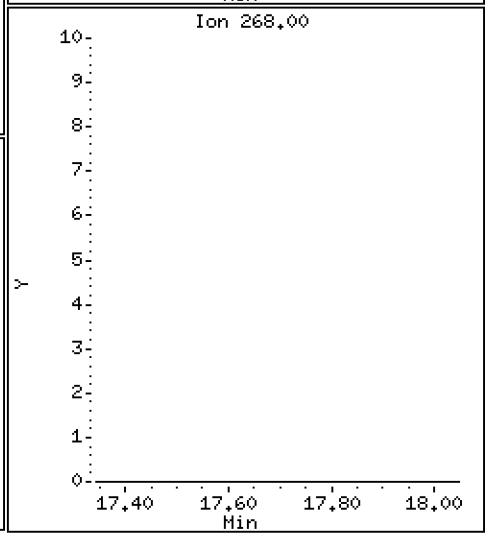


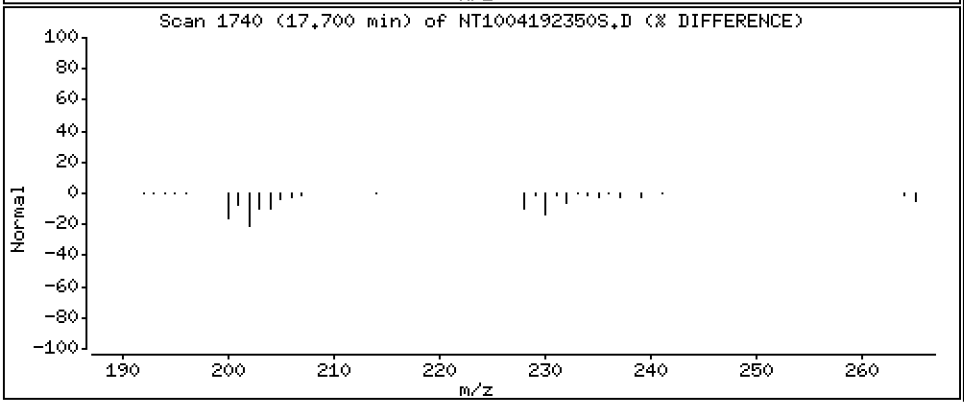












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Date : 20-APR-2023 18:28

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-CCV1

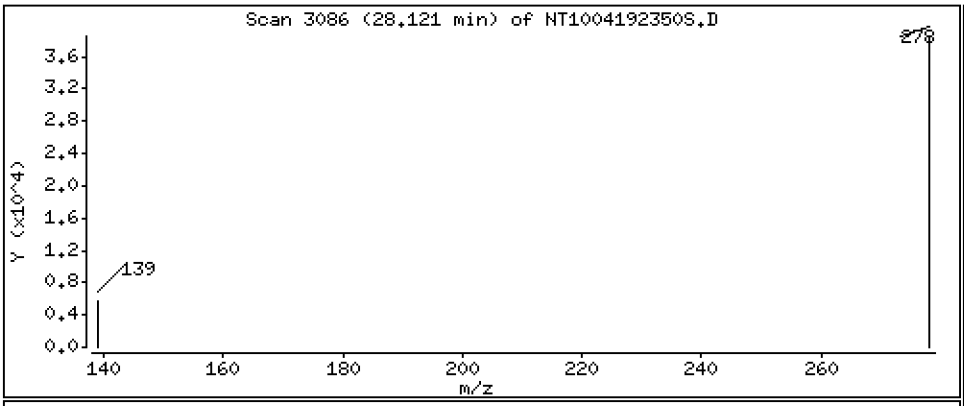
Volume Injected (uL): 1.0

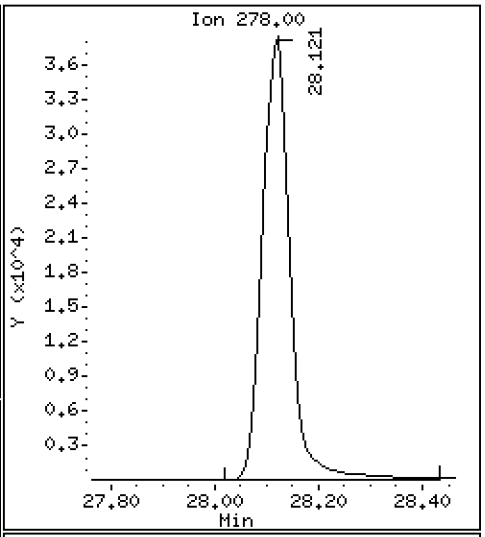
Operator: DSD

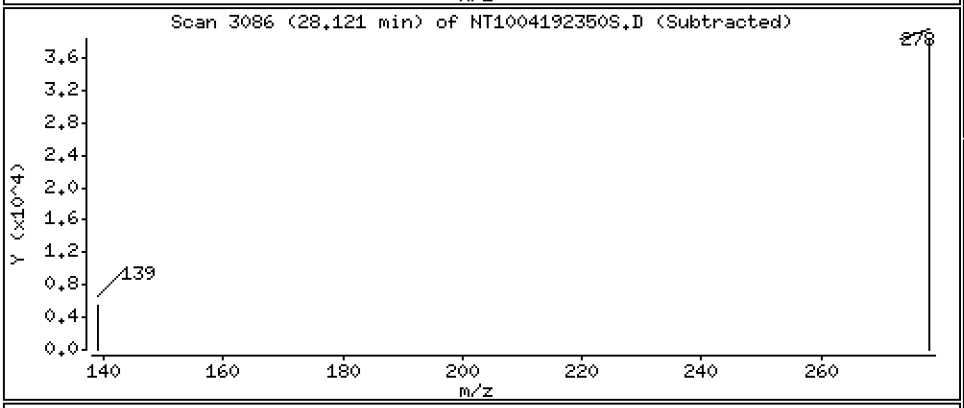
Column phase: ZB-5msi

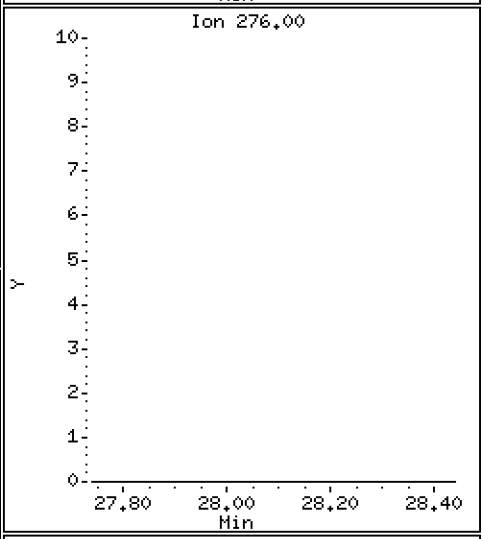
Column diameter: 0.25

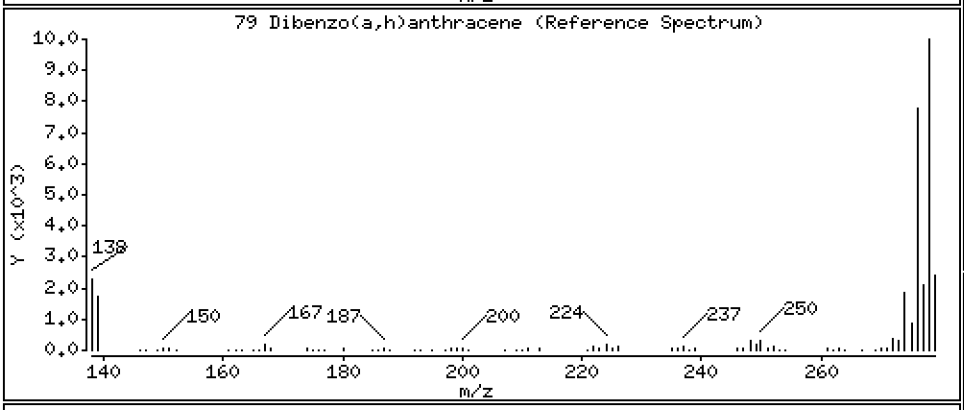
79 Dibenzo(a,h)anthracene

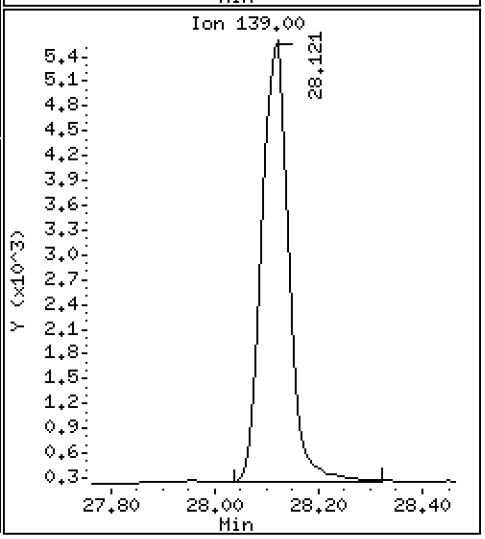


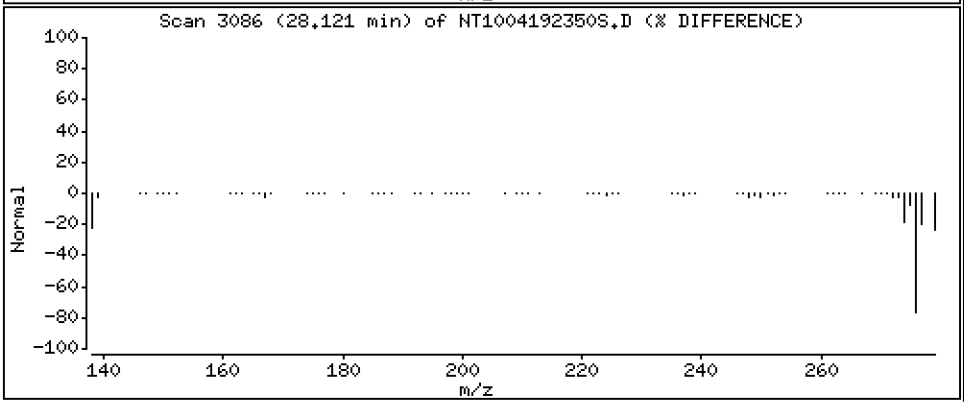












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192350S.D

Date : 20-APR-2023 18:28

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-CCV1

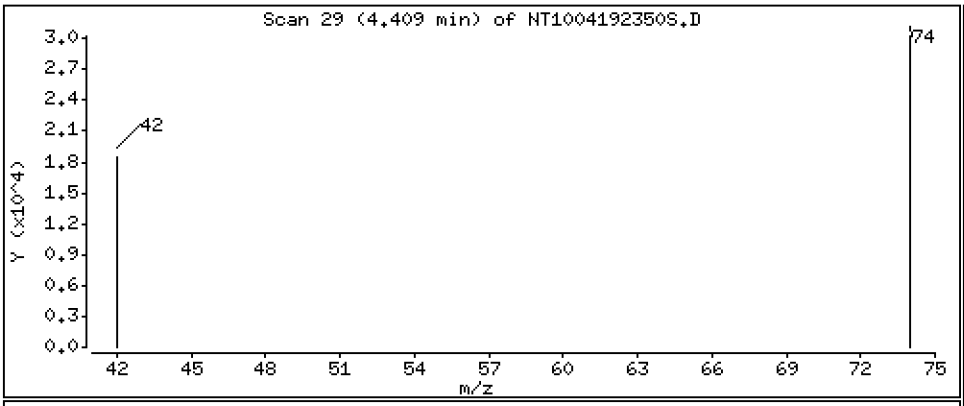
Volume Injected (uL): 1.0

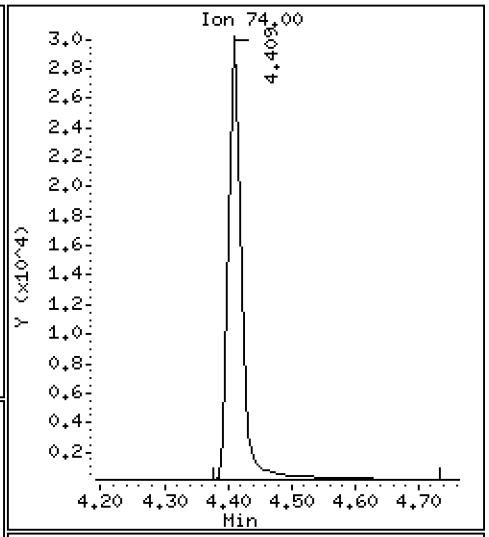
Operator: DSD

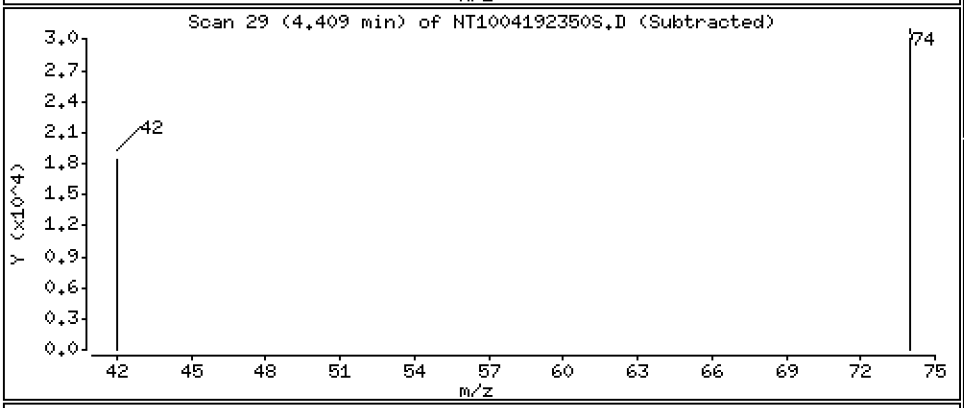
Column phase: ZB-5msi

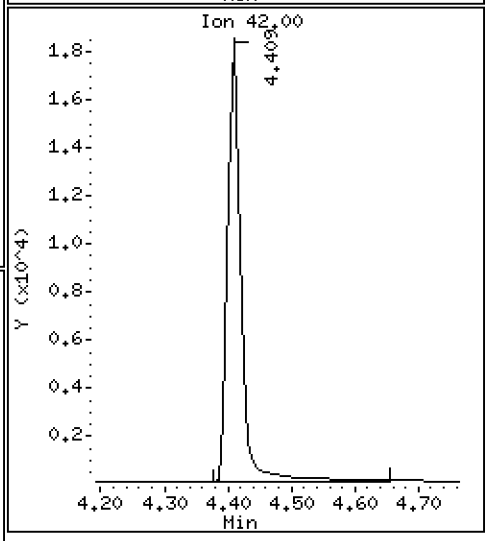
Column diameter: 0.25

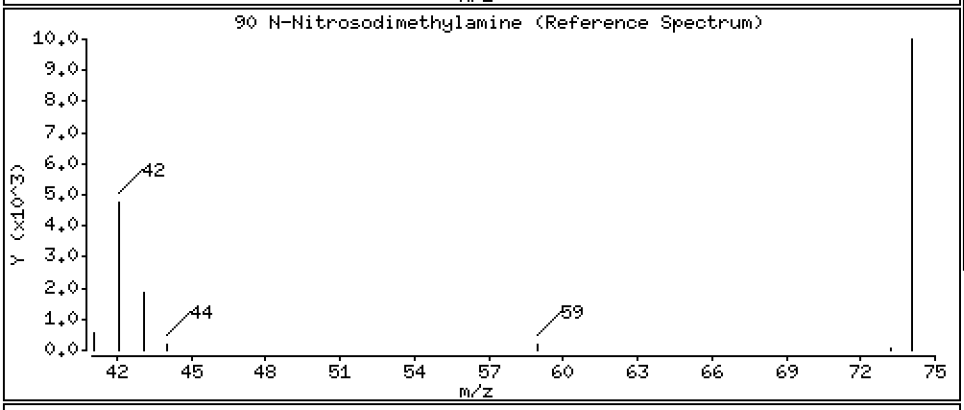
90 N-Nitrosodimethylamine

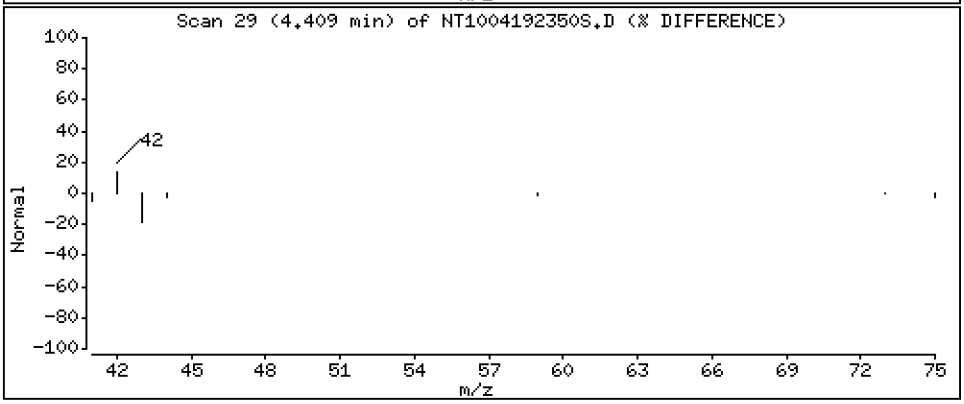












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192350S.D
Lab Smp Id: SLD0302-CCV1
Inj Date : 20-APR-2023 18:28 MS Autotune Date: 16-JAN-2023 17:42
Operator : DSD Inst ID: nt10.i
Smp Info : SLD0302-CCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Meth Date : 21-Apr-2023 13:37 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.617	6.612	(1.000)	57614		
$ 2	Phenol-d5	99	Compound Not Detected.					
$ 5	2-Chlorophenol-d4	132	Compound Not Detected.					
4	Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6	2-Chlorophenol	128	Compound Not Detected.					
7	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8	1,4-Dichlorobenzene-d4	152	Compound Not Detected.					
9	1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10	1,2-Dichlorobenzene-d4	152	Compound Not Detected.					
12	1,2-Dichlorobenzene	146	Compound Not Detected.					
11	Benzyl alcohol	108	Compound Not Detected.					
14	2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
13	2-Methylphenol	108	Compound Not Detected.					
17	Hexachloroethane	117	Compound Not Detected.					
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
15	4-Methylphenol	108	Compound Not Detected.					
$ 18	Nitrobenzene-d5	82	Compound Not Detected.					
19	Nitrobenzene	77	Compound Not Detected.					
20	Isophorone	82	Compound Not Detected.					
21	2-Nitrophenol	139	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/L)
	23	Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	25	2,4-Dichlorophenol	162	Compound Not Detected.					
	26	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27	Naphthalene-d8	136	Compound Not Detected.					
	28	Naphthalene	128	Compound Not Detected.					
	29	4-Chloroaniline	127	Compound Not Detected.					
	30	Hexachlorobutadiene	225	Compound Not Detected.					
	31	4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32	2-Methylnaphthalene	142	Compound Not Detected.					
	33	Hexachlorocyclopentadiene	237	Compound Not Detected.					
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	Compound Not Detected.					
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	40	Acenaphthylene	152	Compound Not Detected.					
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	Compound Not Detected.					
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	Compound Not Detected.					
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	Compound Not Detected.					
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	Compound Not Detected.					
	49	Fluorene	166	Compound Not Detected.					
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	16.278	16.278	(0.907)	63753	1.00357	1.004
$	55	2,4,6-Tribromophenol	330	Compound Not Detected.					
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	17.335	17.327	(0.966)	33275	1.19423	1.194
	58	Pentachlorophenol	266	17.699	17.699	(0.986)	27264	1.64934	1.649
*	59	Phenanthrene-d10	188	17.954	17.947	(1.000)	475152	4.00000	
	60	Phenanthrene	178	Compound Not Detected.					
	61	Anthracene	178	Compound Not Detected.					
	62	Carbazole	167	Compound Not Detected.					
	63	Di-n-butylphthalate	149	Compound Not Detected.					
	64	Fluoranthene	202	Compound Not Detected.					
	65	Pyrene	202	Compound Not Detected.					
$	66	Terphenyl-d14	244	21.142	21.137	(1.000)	58926		
	67	Butylbenzylphthalate	149	Compound Not Detected.					
	68	Benzo(a)anthracene	228	Compound Not Detected.					
*	69	Chrysene-d12	240	Compound Not Detected.					
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	Compound Not Detected.					
	72	bis(2-Ethylhexyl)phthalate	149	Compound Not Detected.					
*	134	Di-n-octylphthalate-d4	153	Compound Not Detected.					
	73	Di-n-octylphthalate	149	Compound Not Detected.					
	74	Benzo(b)fluoranthene	252	Compound Not Detected.					
	75	Benzo(k)fluoranthene	252	Compound Not Detected.					
	76	Benzo(a)pyrene	252	Compound Not Detected.					
*	77	Perylene-d12	264	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
78	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
80	Benzo(g,h,i)perylene	276	Compound Not Detected.					
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	Compound Not Detected.					
105	1-methylnaphthalene	142	Compound Not Detected.					
111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					
187	Total Benzofluoranthenes	252	Compound Not Detected.					

Report Date: 21-Apr-2023 13:38

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192350S.D
Lab Smp Id: SLD0302-CCV1
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230419B.b\ABN.m
Misc Info:

Calibration Date: 20-APR-2023
Calibration Time: 08:57
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT				
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF	
8 1,4-Dichlorobenze	+++++++	++++++++++	++++++++++	+	+++++++	<-
27 Naphthalene-d8	+++++++	++++++++++	++++++++++	+	+++++++	<-
42 Acenaphthene-d10	+++++++	++++++++++	++++++++++	+	+++++++	<-
59 Phenanthrene-d10	433171	216586	866342	475152	9.69	
69 Chrysene-d12	+++++++	++++++++++	++++++++++	+	+++++++	<-
134 Di-n-octylphthala	+++++++	++++++++++	++++++++++	+	+++++++	<-
77 Perylene-d12	+++++++	++++++++++	++++++++++	+	+++++++	<-

		RT LIMIT				
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF	
8 1,4-Dichlorobenze	+++++++	++++++++++	++++++++++	0.0+	+++++++	<-
27 Naphthalene-d8	+++++++	++++++++++	++++++++++	0.0+	+++++++	<-
42 Acenaphthene-d10	+++++++	++++++++++	++++++++++	0.0+	+++++++	<-
59 Phenanthrene-d10	17.95	17.45	18.45	17.95	0.04	
69 Chrysene-d12	+++++++	++++++++++	++++++++++	0.0+	+++++++	<-
134 Di-n-octylphthala	+++++++	++++++++++	++++++++++	0.0+	+++++++	<-
77 Perylene-d12	+++++++	++++++++++	++++++++++	0.0+	+++++++	<-

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

REVIEW SUMMARY FOR FILE - NT1004192350S.D

Lab ID: SLD0302-CCV1
nt10.i, 20230419B.b\ABN.m,   20-APR-2023 18:28

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

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

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230419B.b/NT1004192335S.D

On Column LOD for nt10.i, 20230419B.b\ABN.m, PSDDA.sub = 0.1000

Exception: Phenol 0.5000
Exception: 2-Fluorophenol (Surr) 0.0000
Exception: Phenol-d5 (Surr) 0.0000
Exception: 2-Chlorophenol-d4 (Surr) 0.0000
Exception: 1,2-Dichlorobenzene-d4 (Surr) 0.0000
Exception: Nitrobenzene-d5 (Surr) 0.0000
Exception: 2-Fluorobiphenyl (Surr) 0.0000
Exception: 2,4,6-Tribromophenol (Surr) 0.0000
Exception: Terphenyl-d14 (Surr) 0.0000

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

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GC00049
Lab File ID:	NT1004192336S.D	Calibration Date:	03/15/2023
Sequence:	SLD0302	Injection Date:	04/20/23
Lab Sample ID:	SLD0302-LCV1	Injection Time:	09:35
Sequence Name:	ABN 0.1		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
1,4-Dichlorobenzene	A	0.10000	0.1	1.5031980	1.4879640		-1.0	
1,2-Dichlorobenzene	A	0.10000	0.1	1.4783140	1.4426250		-2.4	
Benzyl Alcohol	A	0.10000	0.09	0.9647610	0.8746428		-9.3	
Benzoic acid	A	0.40000	0.06	0.1358970	0.0260214		-86.2	
2,4-Dimethylphenol	A	0.20000	0.2	0.3457498	0.3040251		-12.1	
1,2,4-Trichlorobenzene	A	0.10000	0.1	0.3478148	0.3518155		1.2	
N-Nitrosodiphenylamine	A	0.10000	0.09	0.5366720	0.4960587		-7.6	
Pentachlorophenol	A	0.20000	0.09	0.0934250	0.0581939		-56.1	
2-Fluorophenol	A	0.15000	0.126	1.2129820	1.0218360		-15.8	
p-Terphenyl-d14	A	0.10000	0.0749	0.6517430	0.4883023		-25.1	

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT10041923365.D

Date : 20-APR-2023 09:35

Client ID:

Instrument: nt10.i

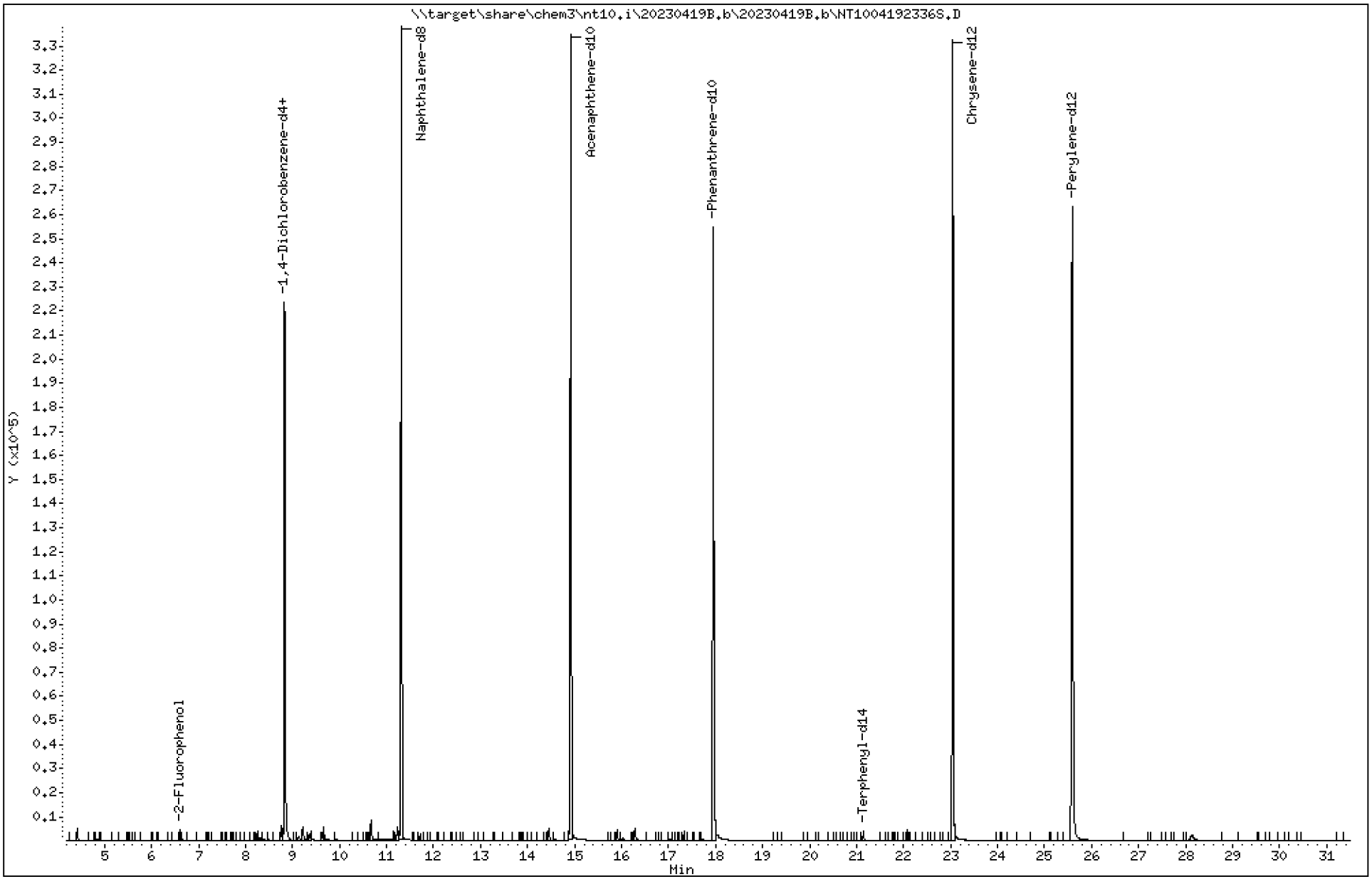
Sample Info: SLD0302-LCV1

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 20-APR-2023 09:35

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-LCV1

Volume Injected (uL): 1.0

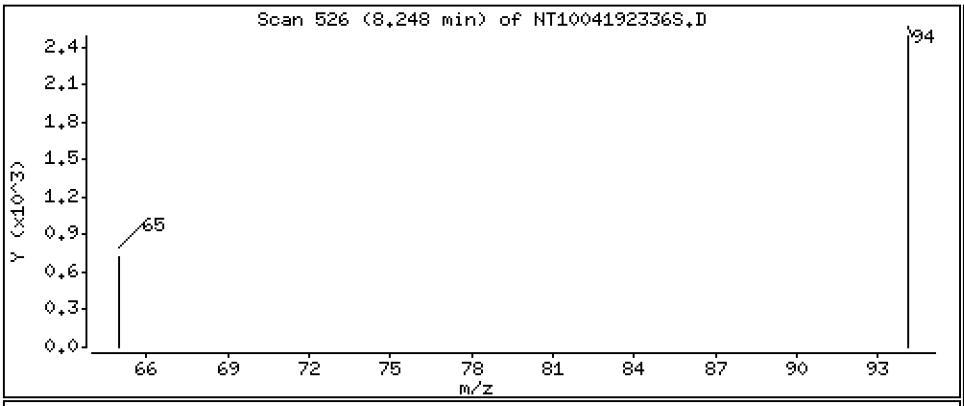
Operator: DSD

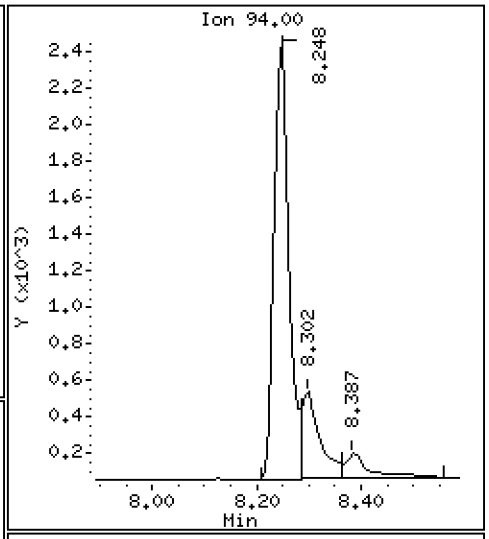
Column phase: ZB-5msi

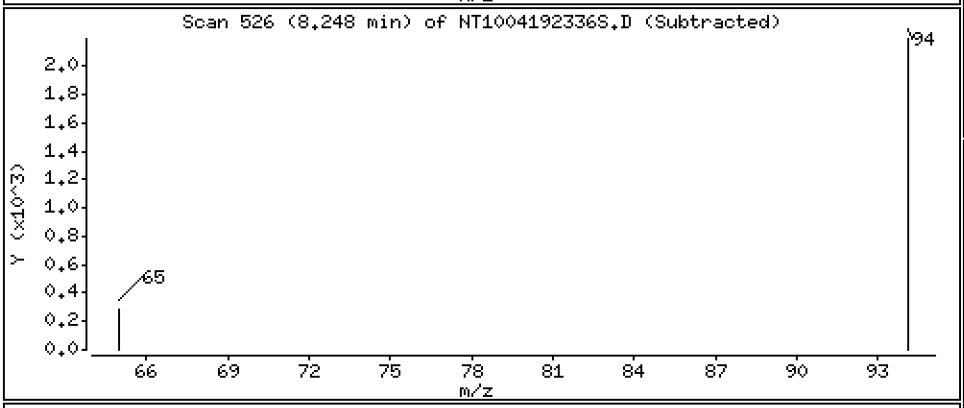
Column diameter: 0.25

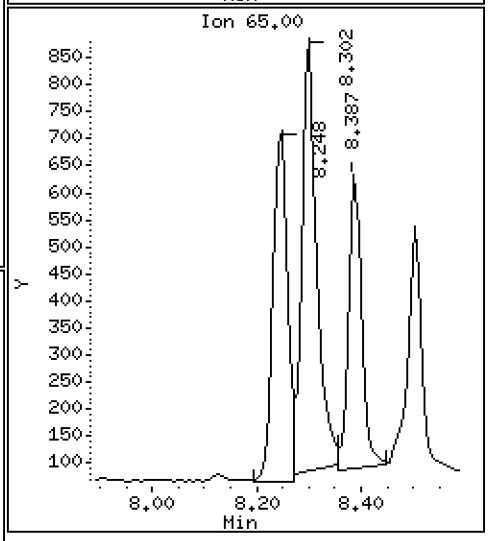
3 Phenol

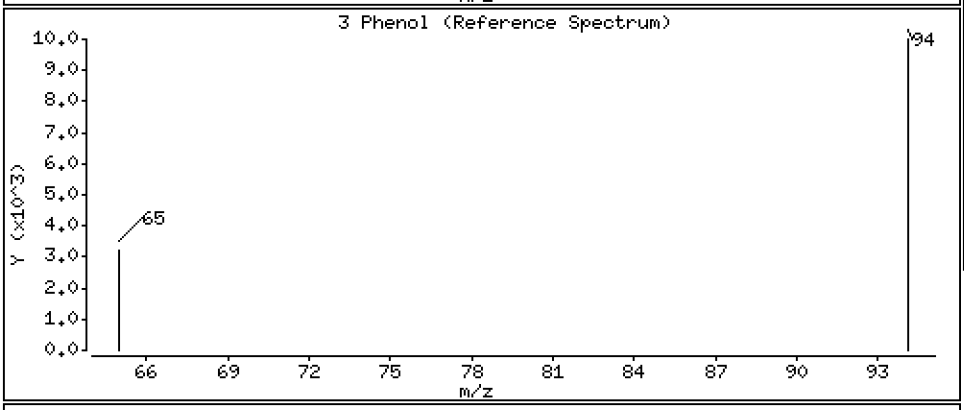
Concentration: 0.07734 ug/L

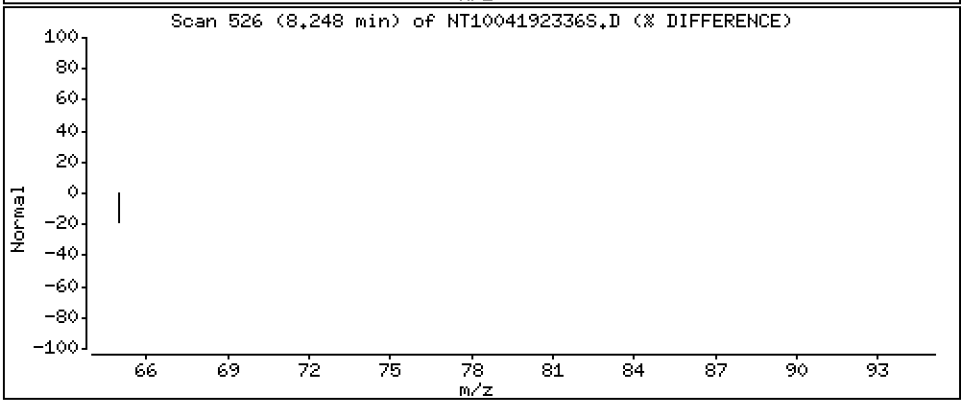












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192336S.D

Date : 20-APR-2023 09:35

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-LCV1

Volume Injected (uL): 1.0

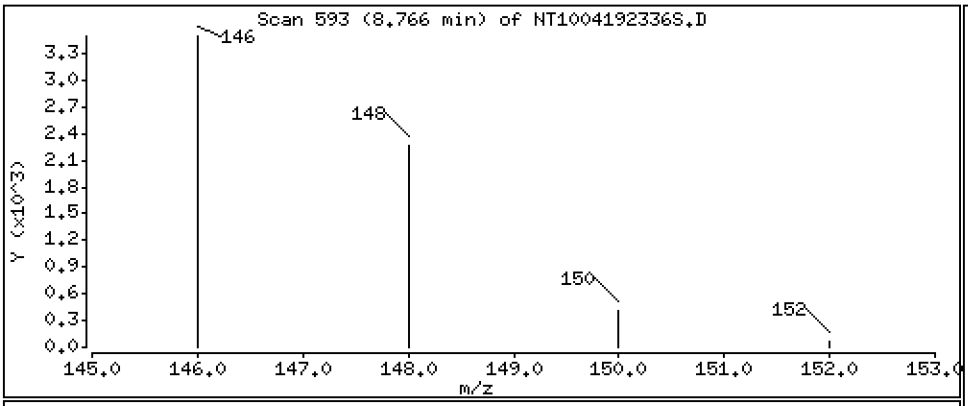
Operator: DSD

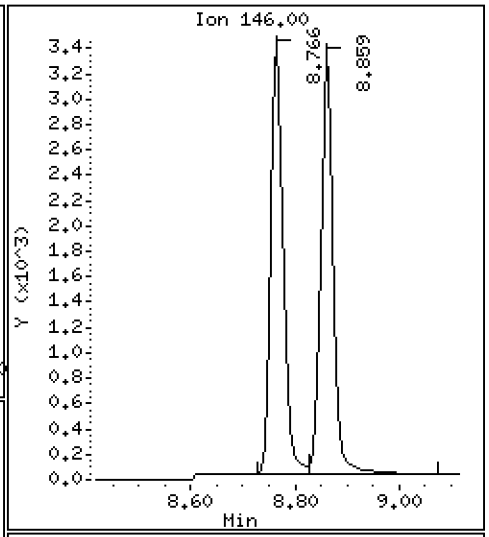
Column phase: ZB-5msi

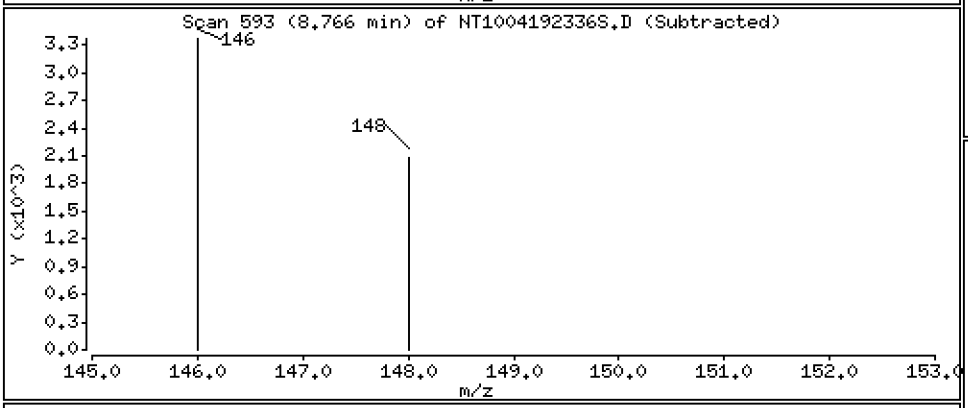
Column diameter: 0.25

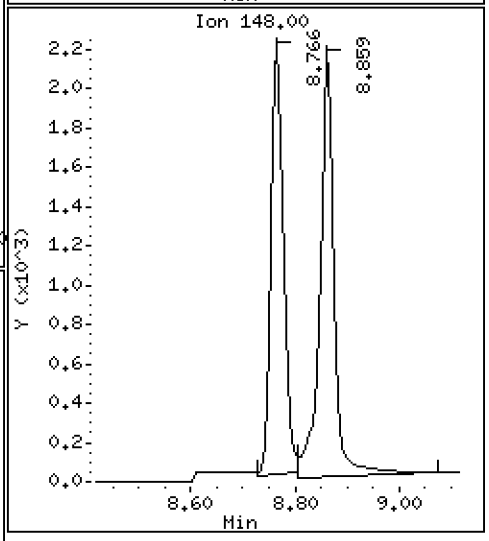
7 1,3-Dichlorobenzene

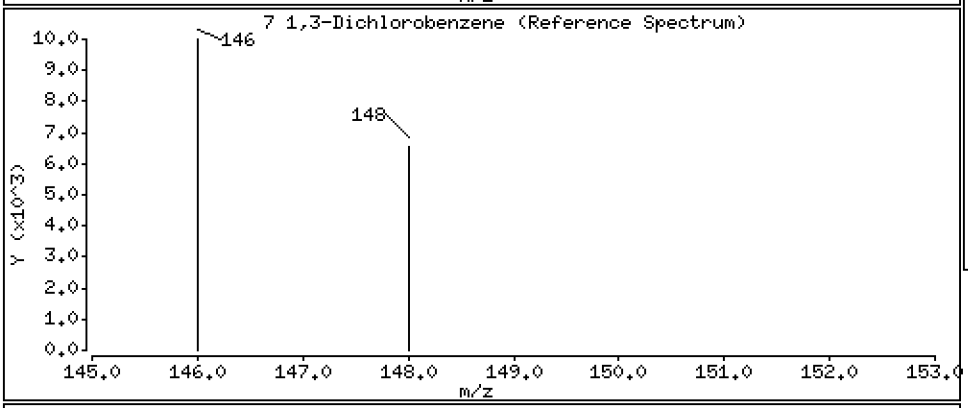
Concentration: 0.09841 ug/L

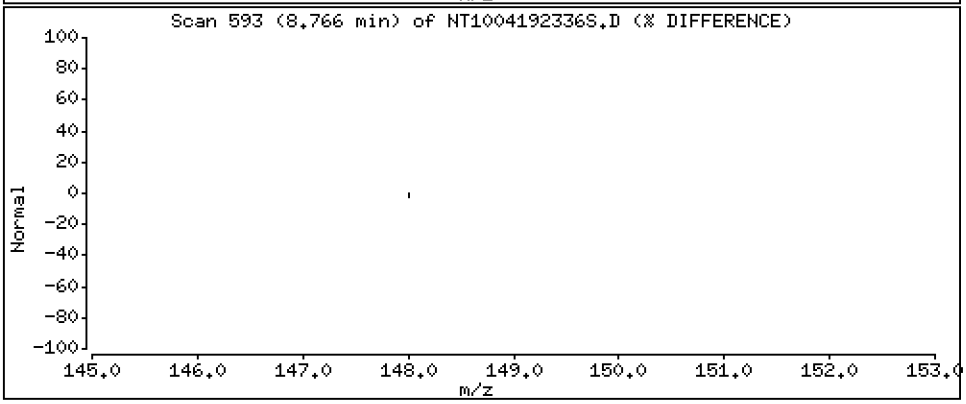












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192336S.D

Date : 20-APR-2023 09:35

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-LCV1

Volume Injected (uL): 1.0

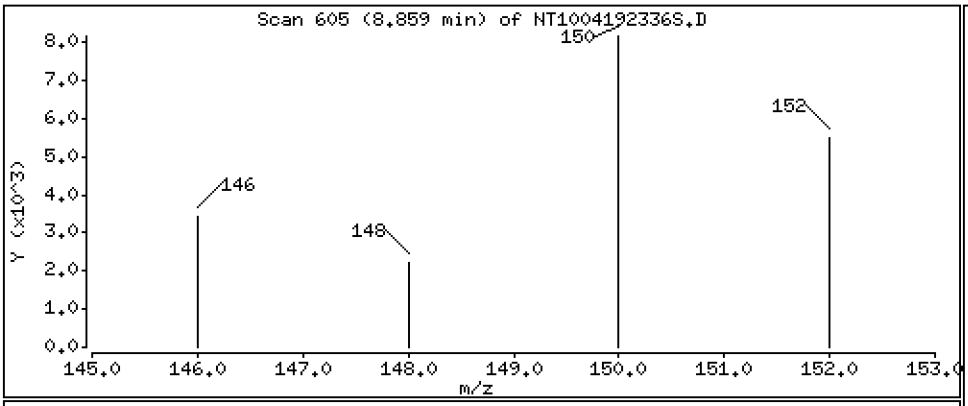
Operator: DSD

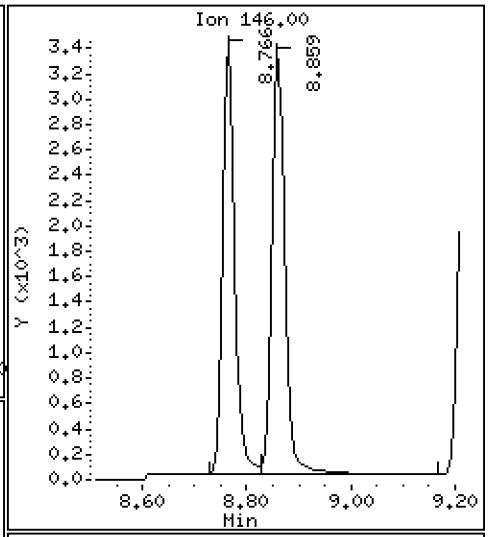
Column phase: ZB-5msi

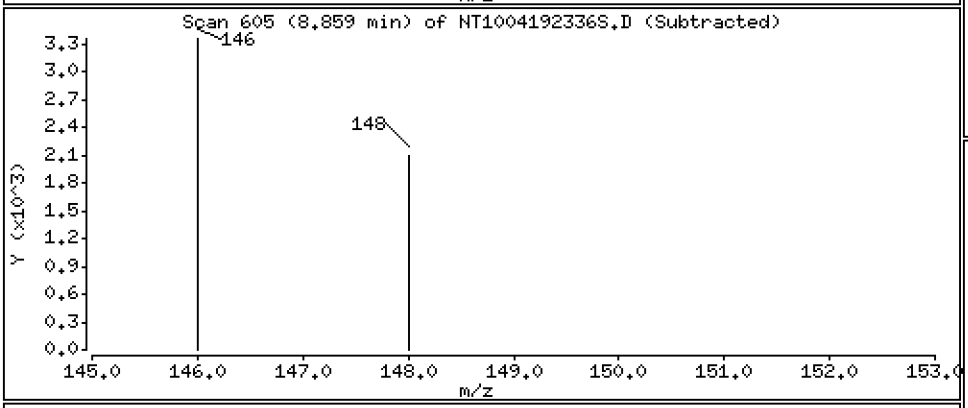
Column diameter: 0.25

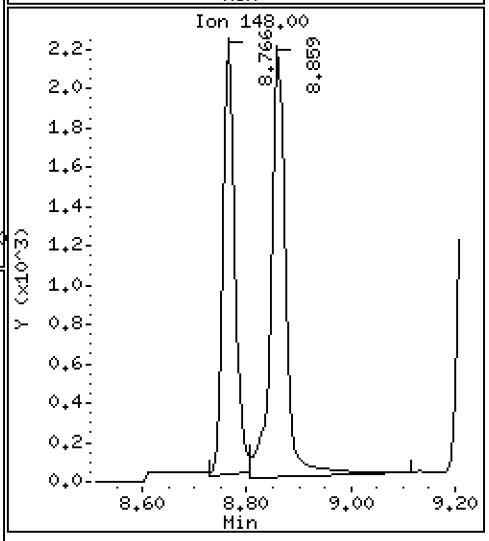
9 1,4-Dichlorobenzene

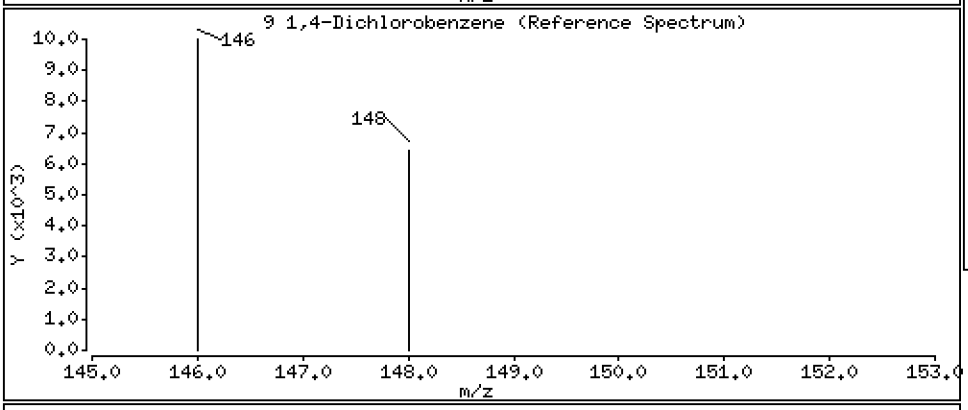
Concentration: 0.09899 ug/L

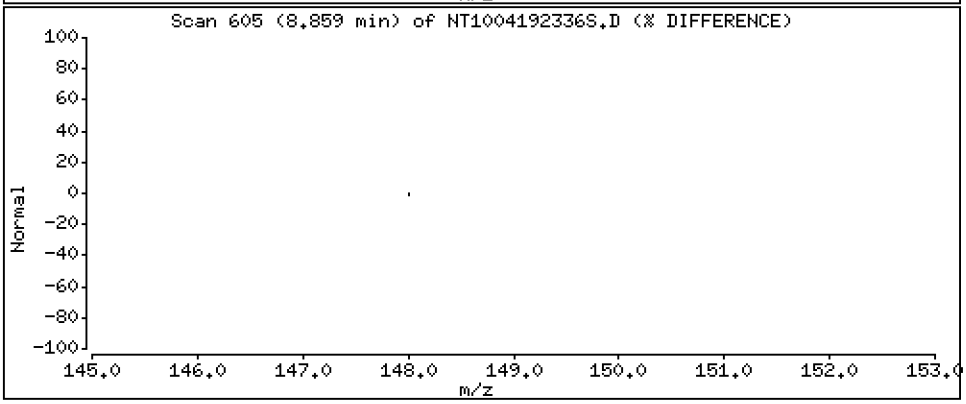












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192336S.D

Date : 20-APR-2023 09:35

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-LCV1

Volume Injected (uL): 1.0

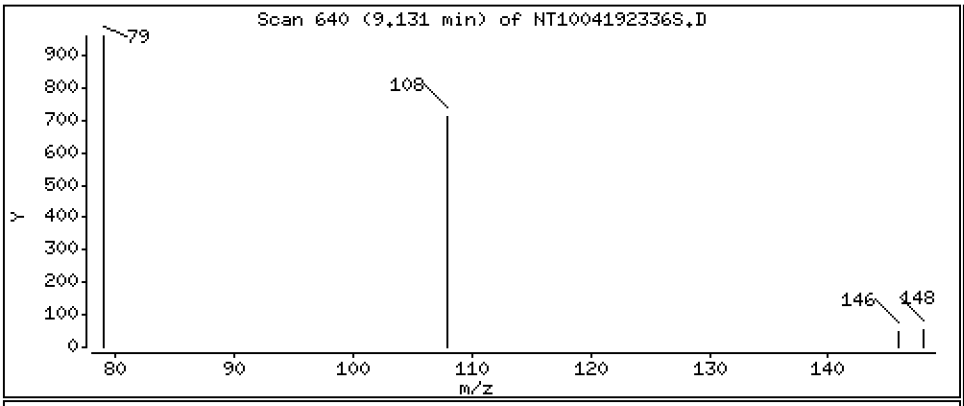
Operator: DSD

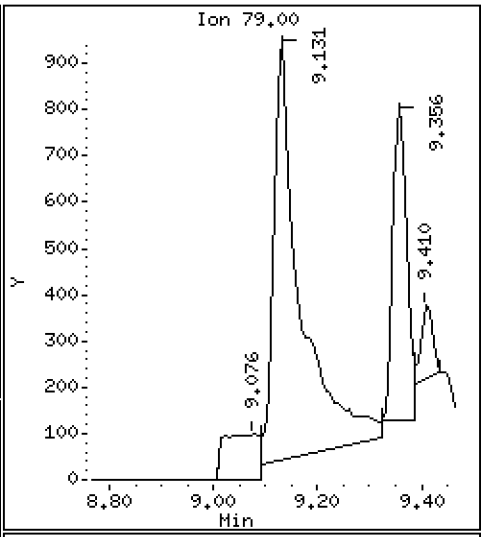
Column phase: ZB-5msi

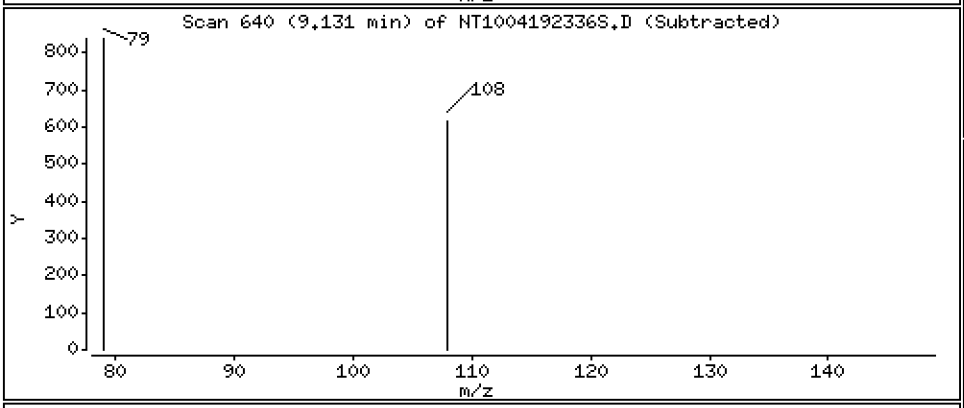
Column diameter: 0.25

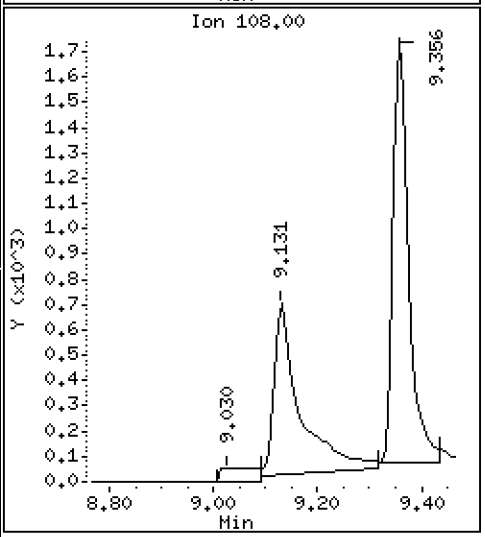
11 Benzyl alcohol

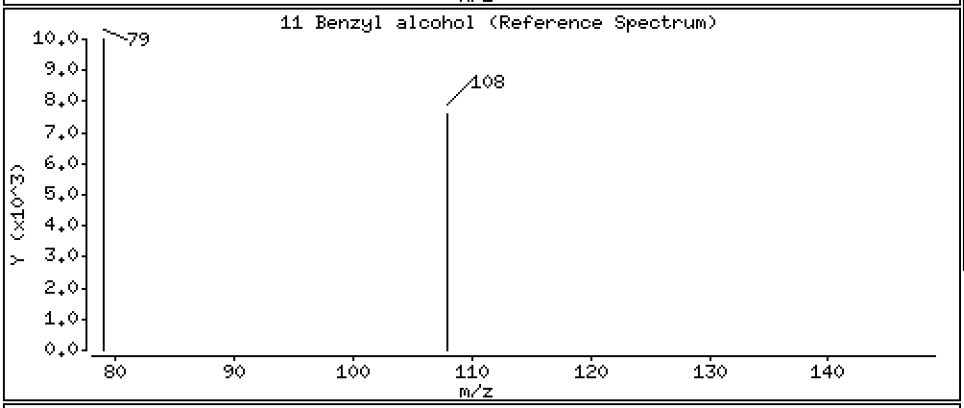
Concentration: 0.09066 ug/L

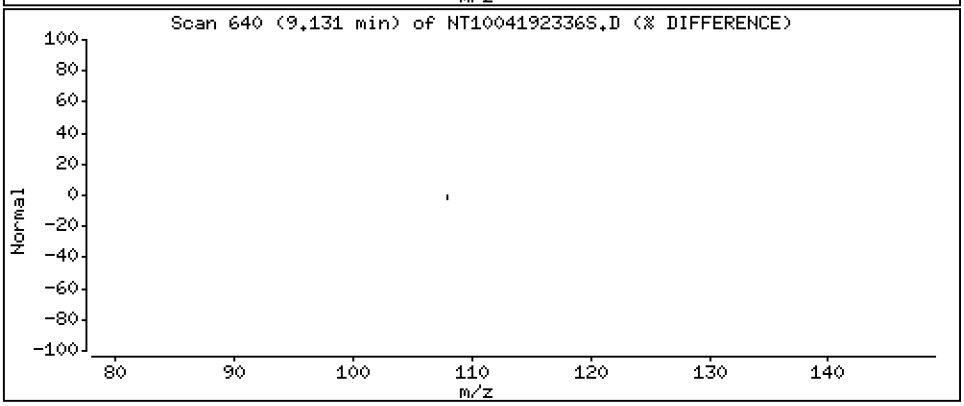












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192336S.D

Date : 20-APR-2023 09:35

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-LCV1

Volume Injected (uL): 1.0

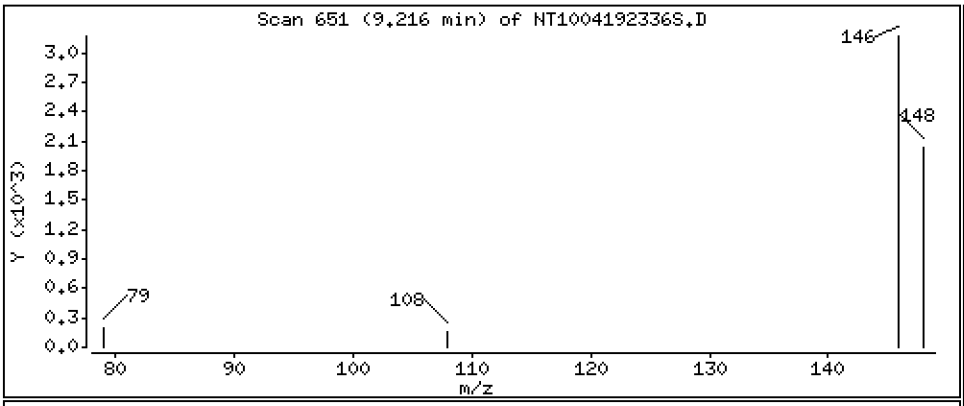
Operator: DSD

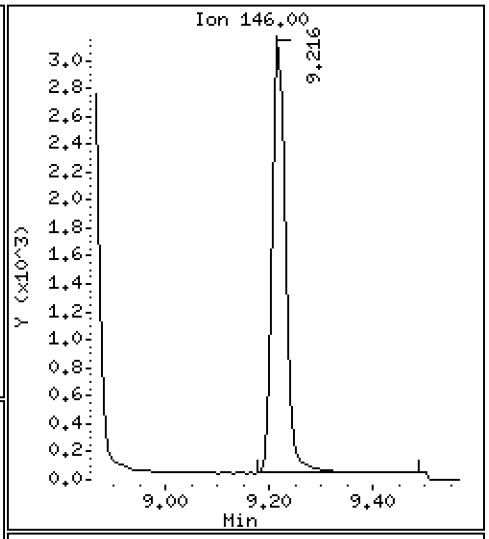
Column phase: ZB-5msi

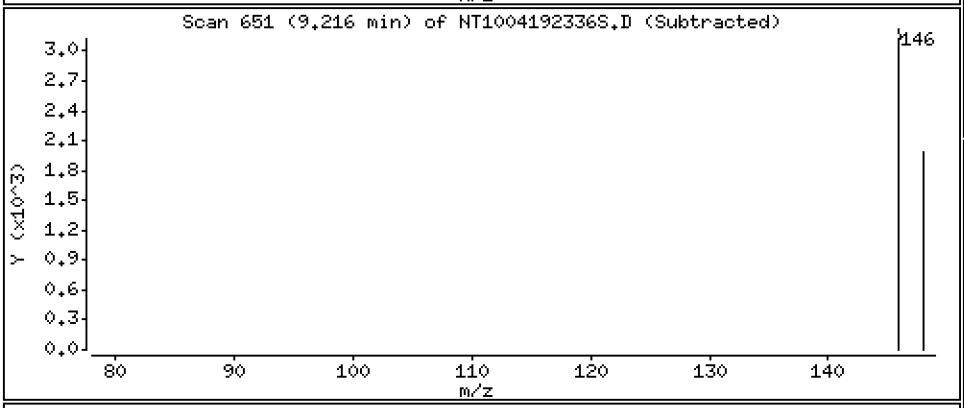
Column diameter: 0.25

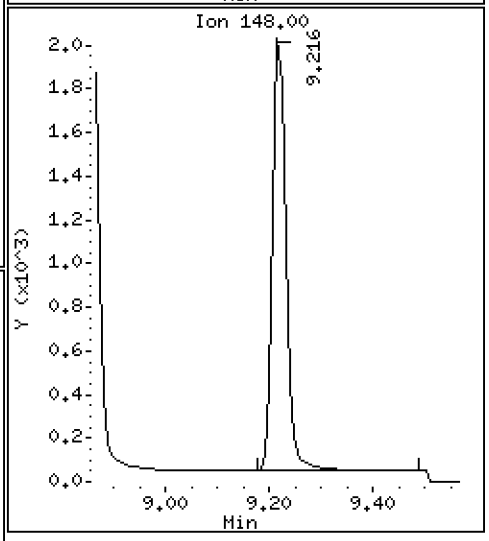
12 1,2-Dichlorobenzene

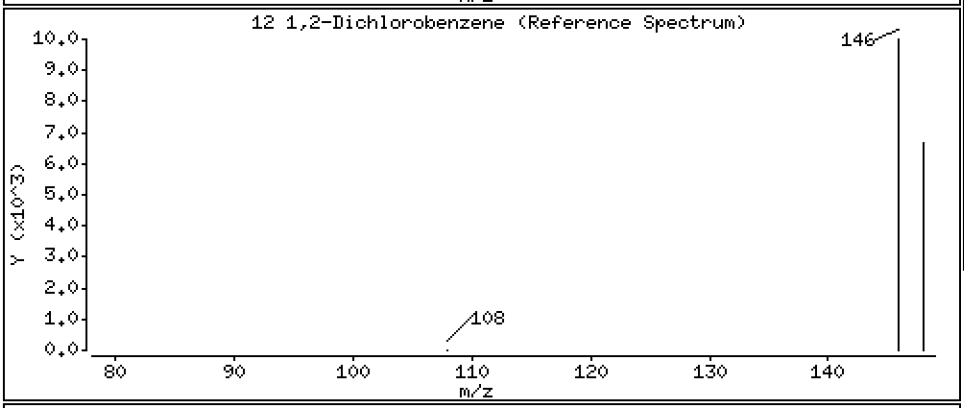
Concentration: 0.09759 ug/L

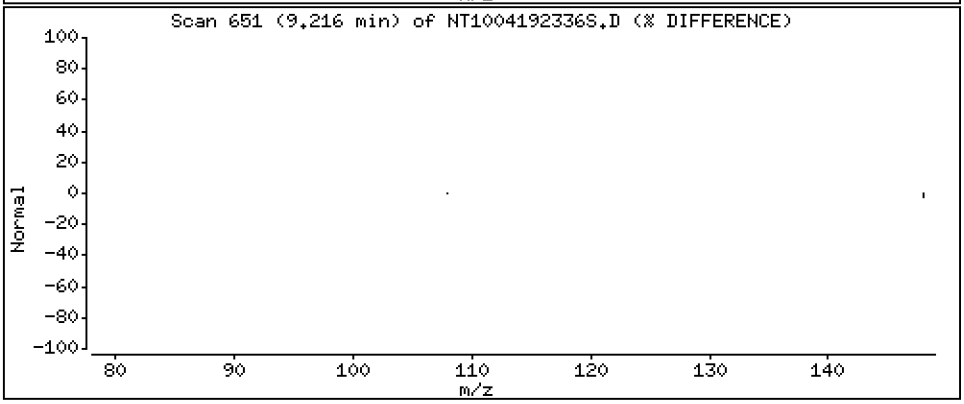












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192336S.D

Date : 20-APR-2023 09:35

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-LCV1

Volume Injected (uL): 1.0

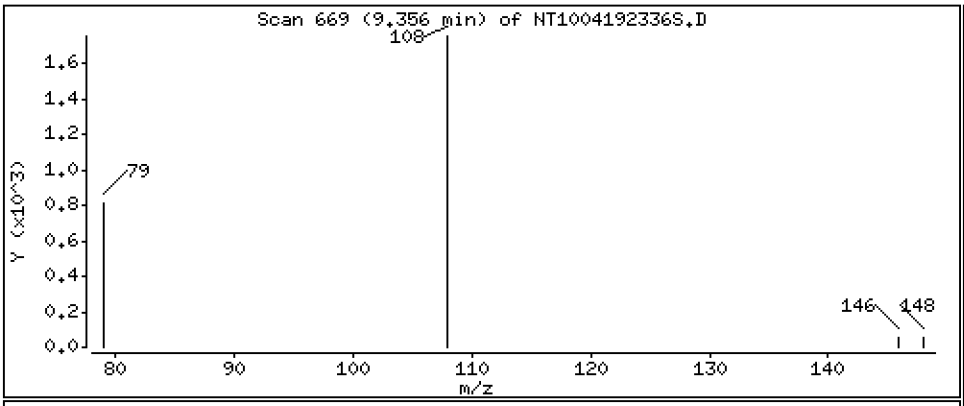
Operator: DSD

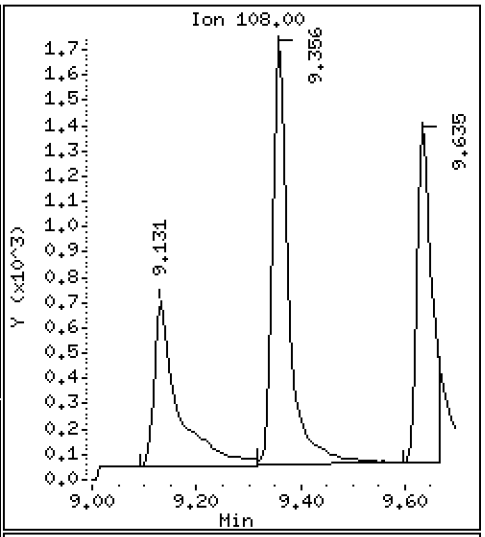
Column phase: ZB-5msi

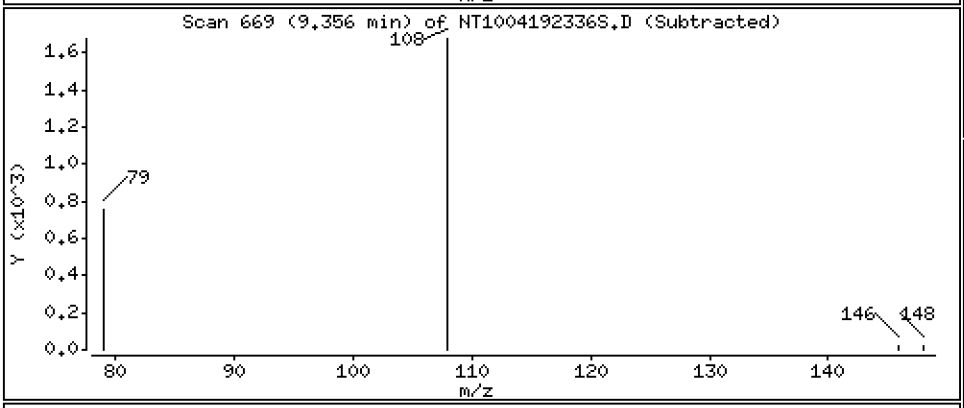
Column diameter: 0.25

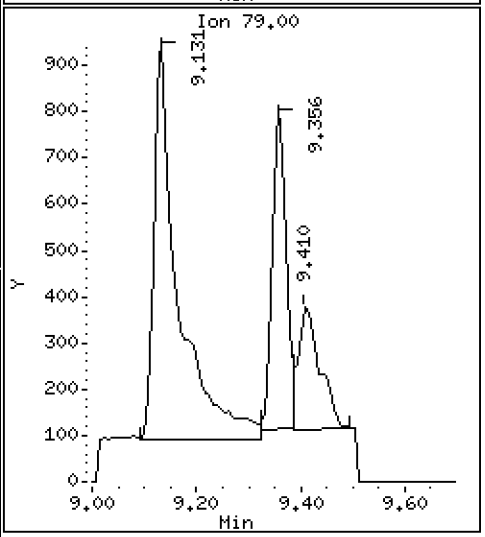
13 2-Methylphenol

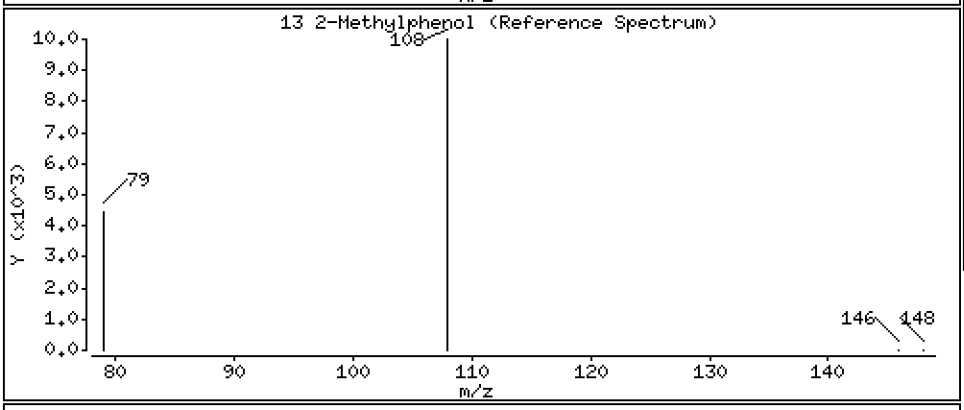
Concentration: 0.08688 ug/L

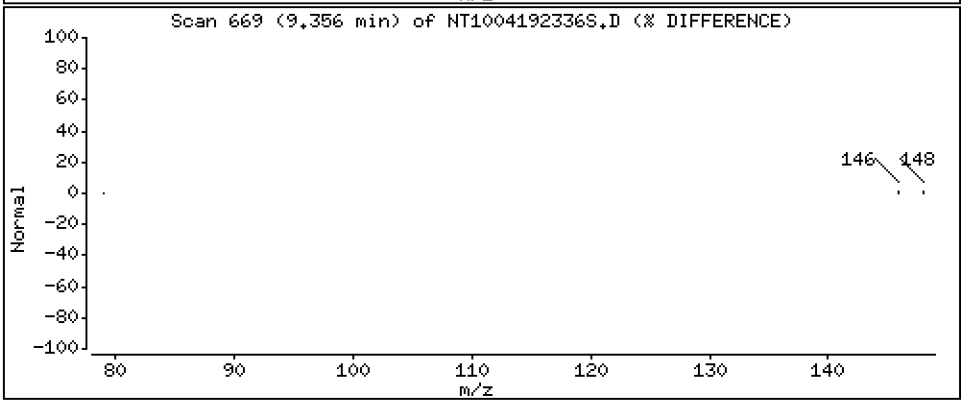












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192336S.D

Date : 20-APR-2023 09:35

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-LCV1

Volume Injected (uL): 1.0

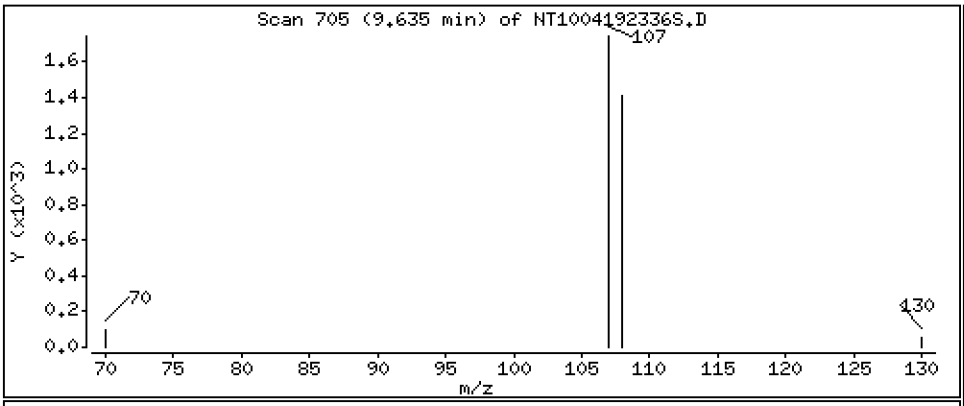
Operator: DSD

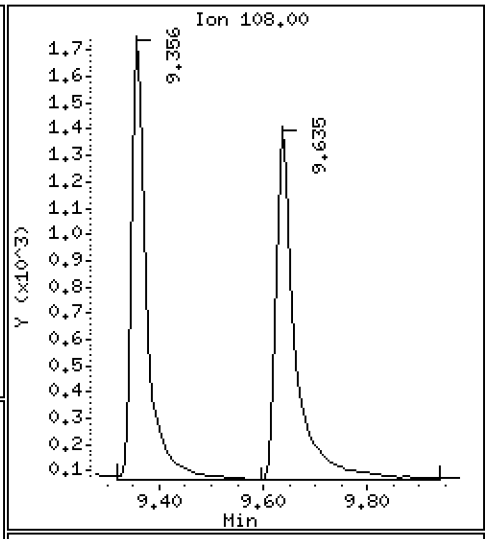
Column phase: ZB-5msi

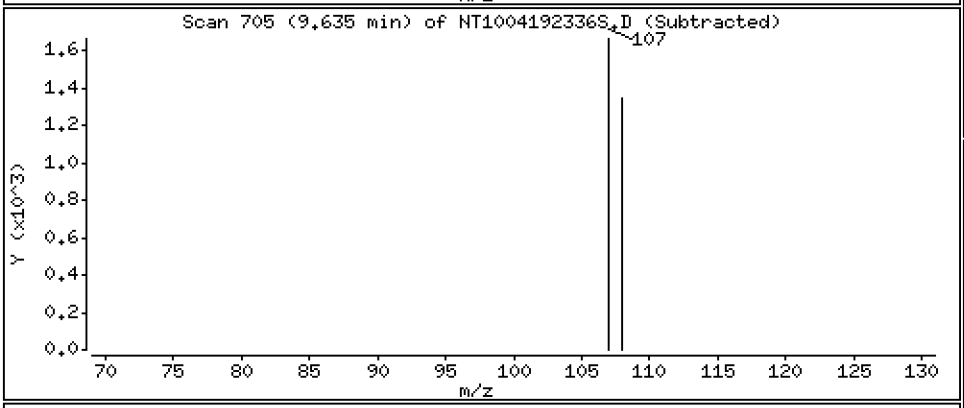
Column diameter: 0.25

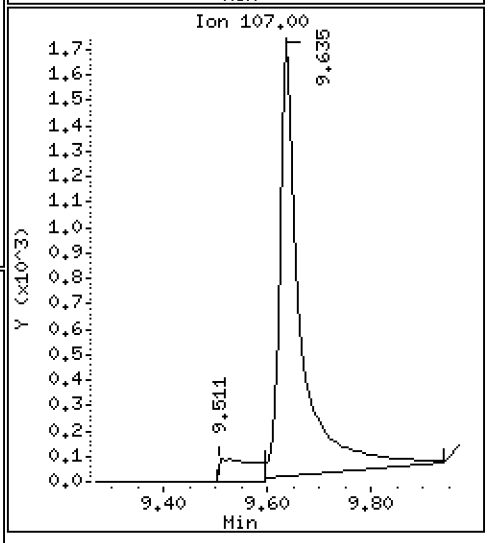
15 4-Methylphenol

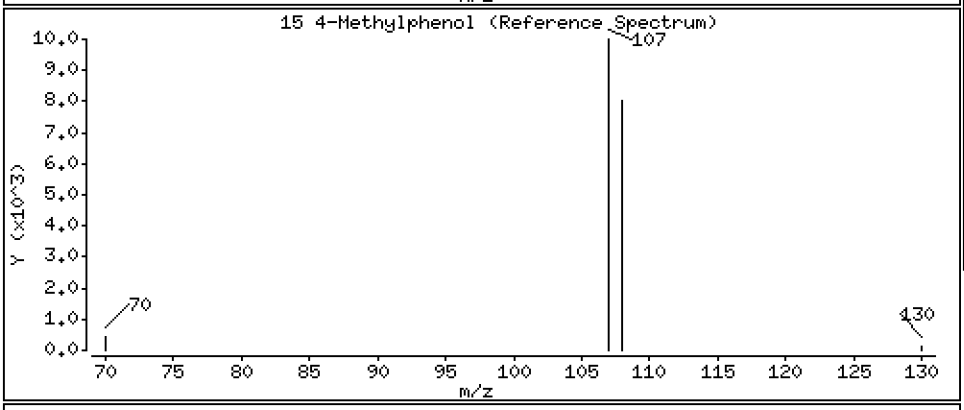
Concentration: 0.07933 ug/L

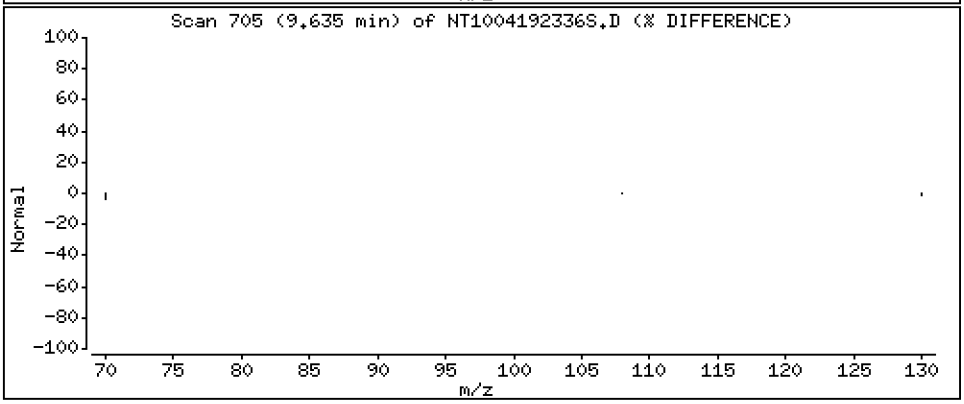












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192336S.D

Date : 20-APR-2023 09:35

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-LCV1

Volume Injected (uL): 1.0

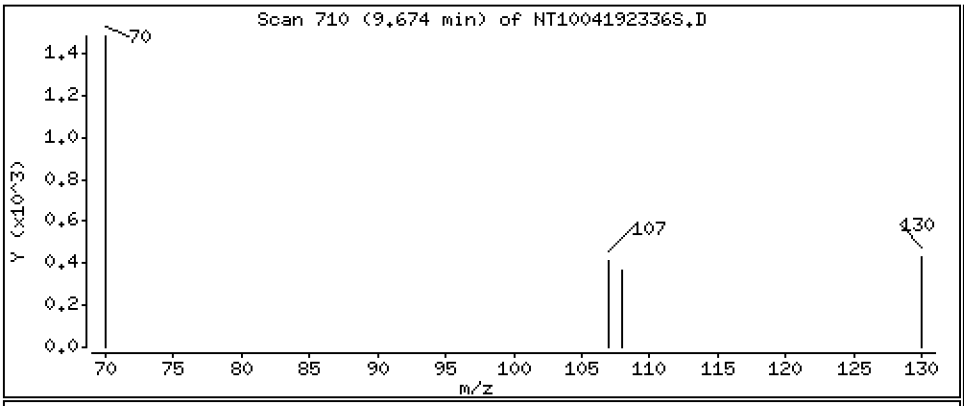
Operator: DSD

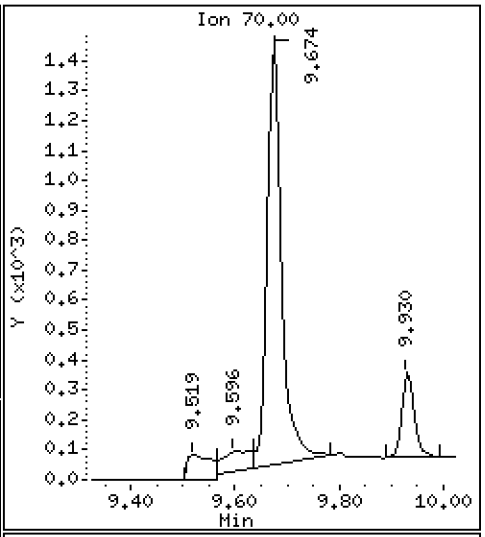
Column phase: ZB-5msi

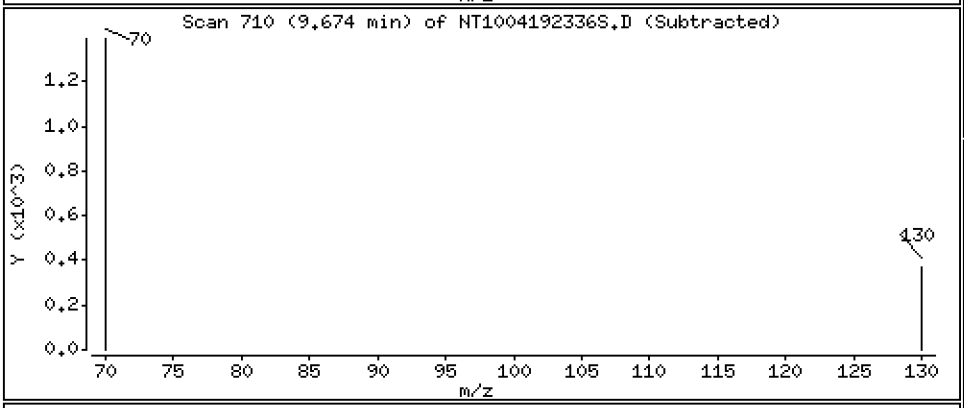
Column diameter: 0.25

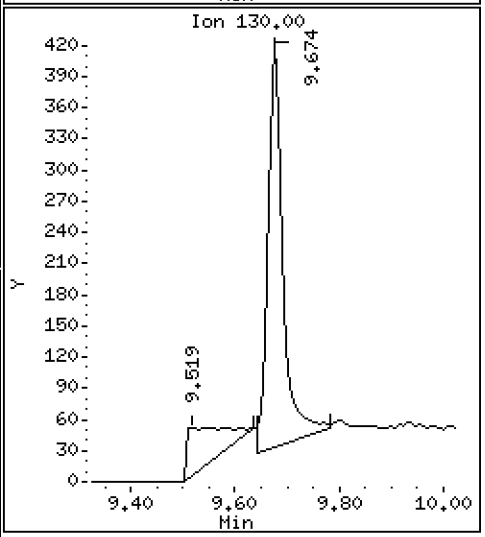
16 N-Nitroso-di-n-propylamine

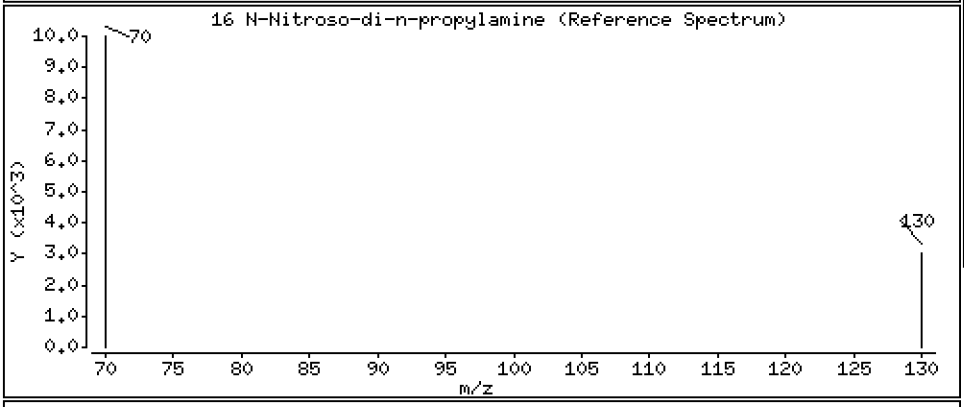
Concentration: 0.08477 ug/L

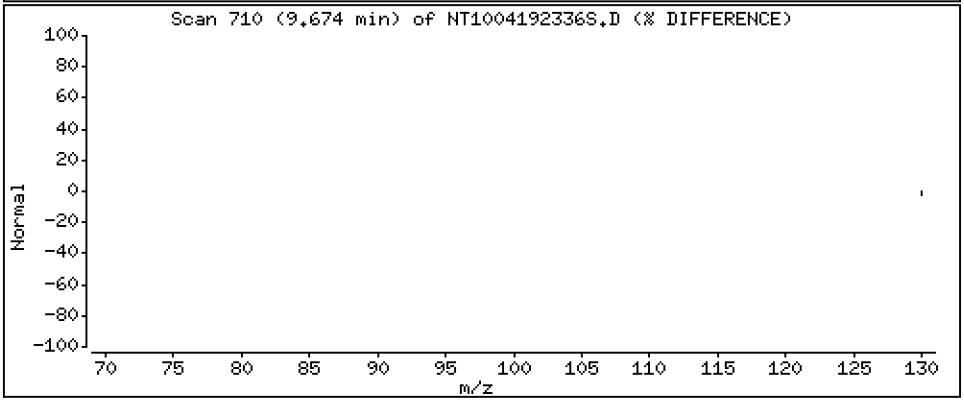












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT10041923365.D

Date : 20-APR-2023 09:35

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-LCV1

Volume Injected (uL): 1.0

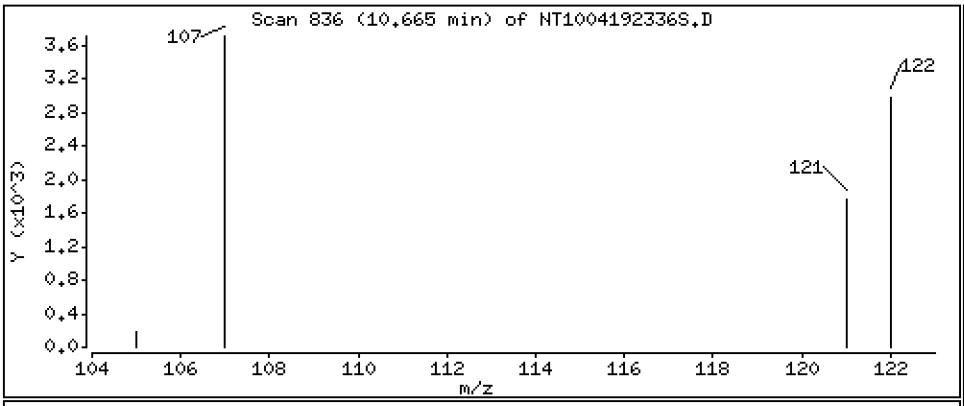
Operator: DSD

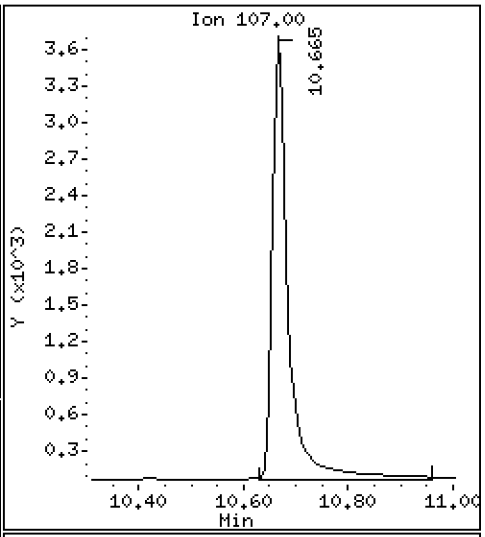
Column phase: ZB-5msi

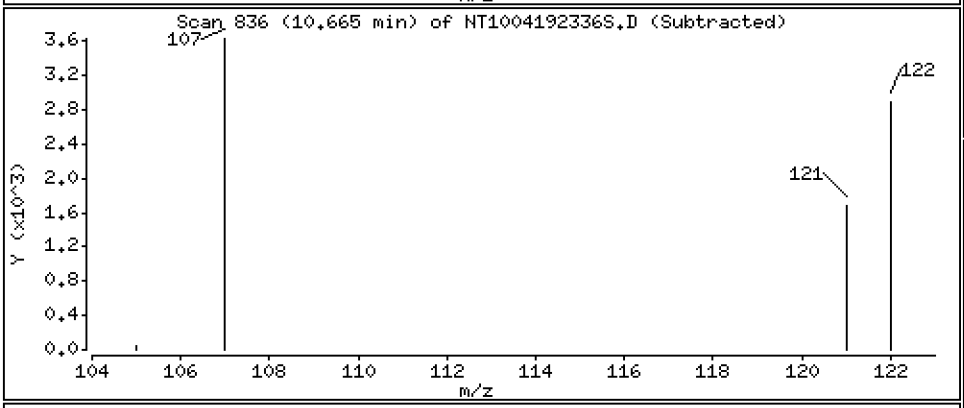
Column diameter: 0.25

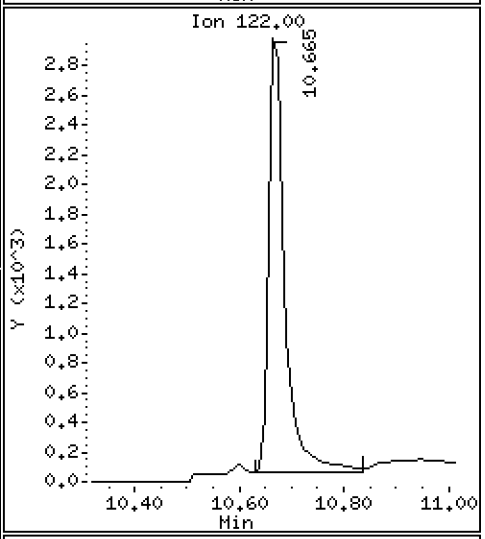
22 2,4-Dimethylphenol

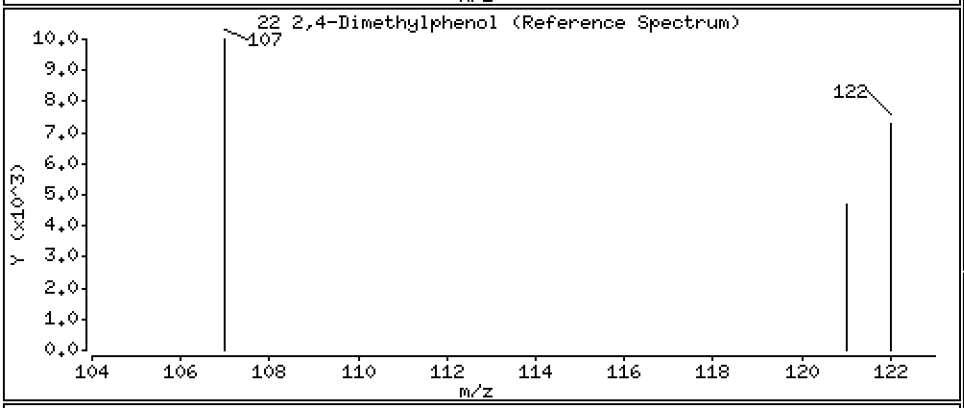
Concentration: 0.1759 ug/L

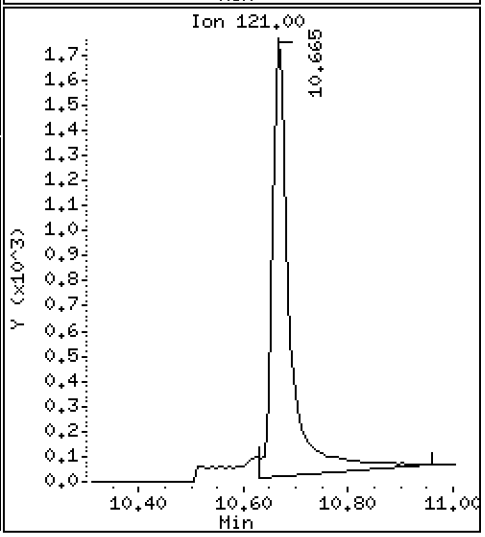


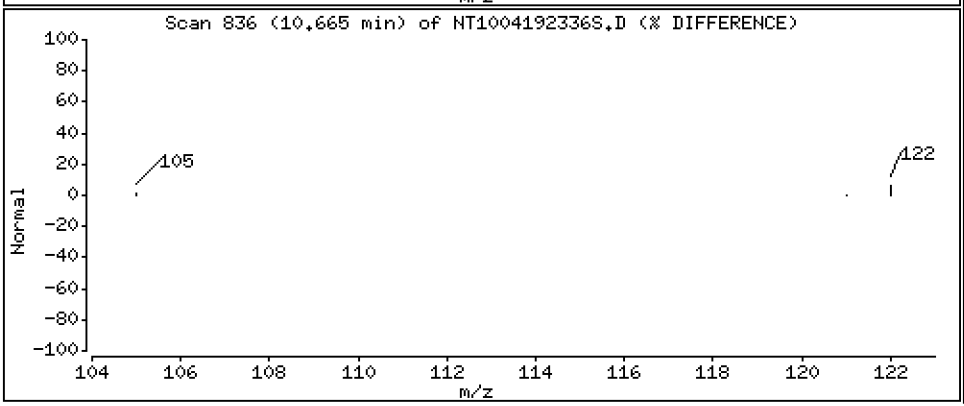












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Date : 20-APR-2023 09:35

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-LCV1

Volume Injected (uL): 1.0

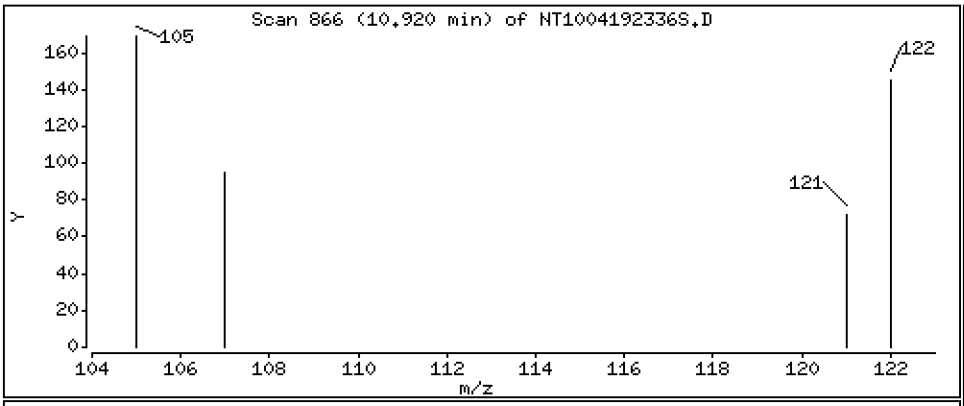
Operator: DSD

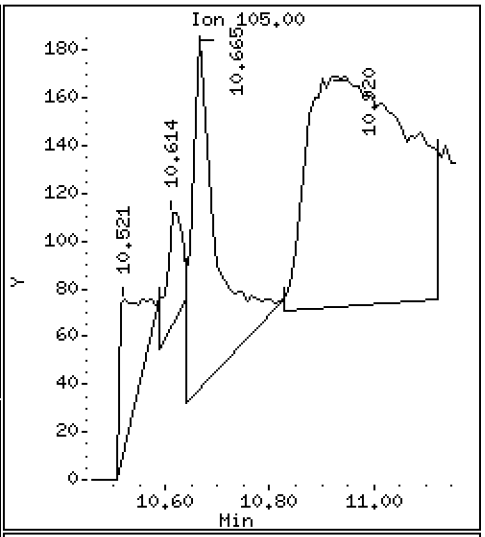
Column phase: ZB-5msi

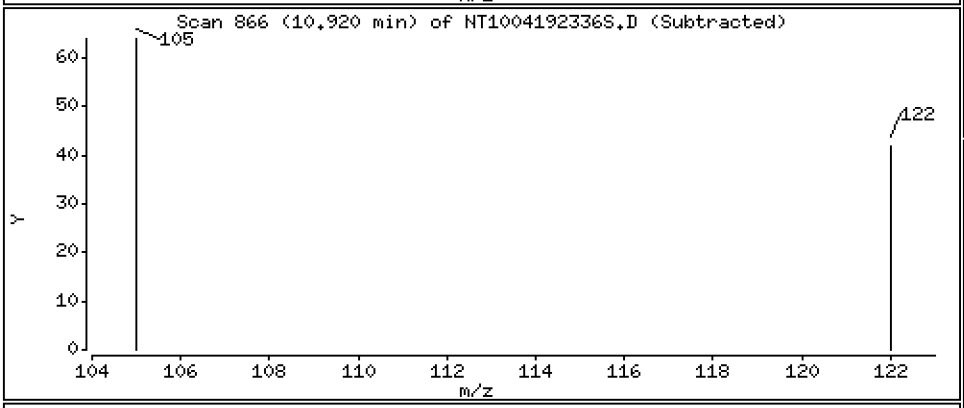
Column diameter: 0.25

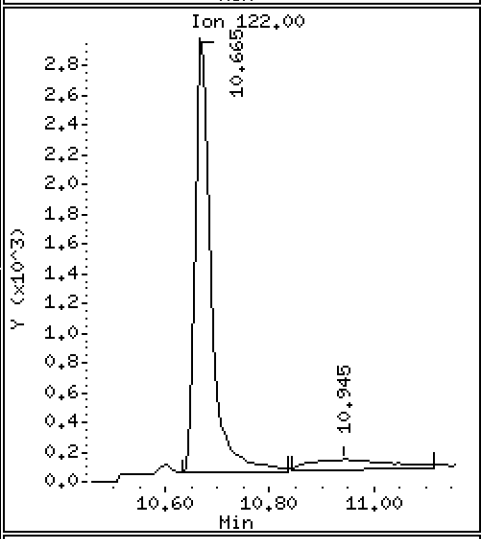
24 Benzoic acid

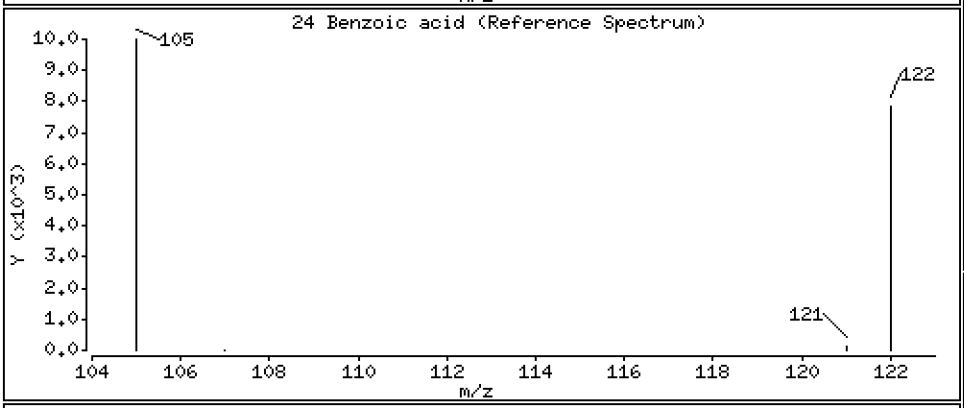
Concentration: 0.05507 ug/L

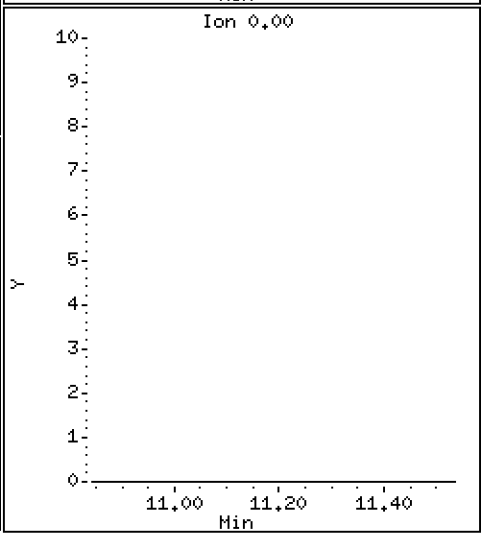


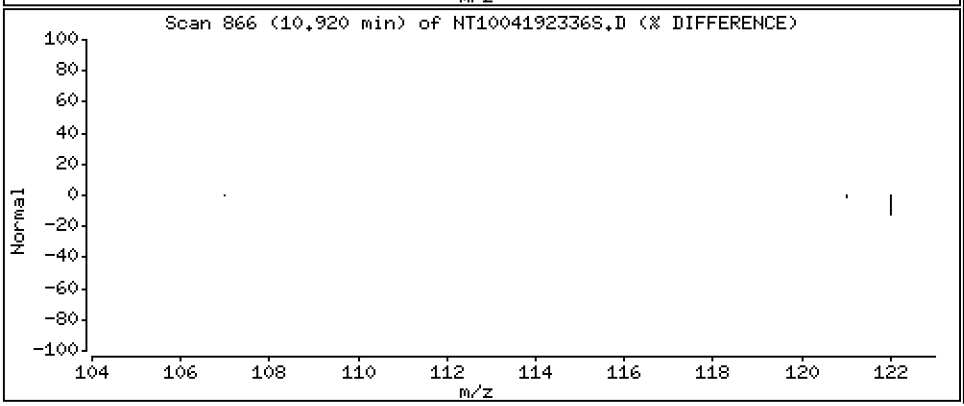












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192336S.D

Date : 20-APR-2023 09:35

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-LCV1

Volume Injected (uL): 1.0

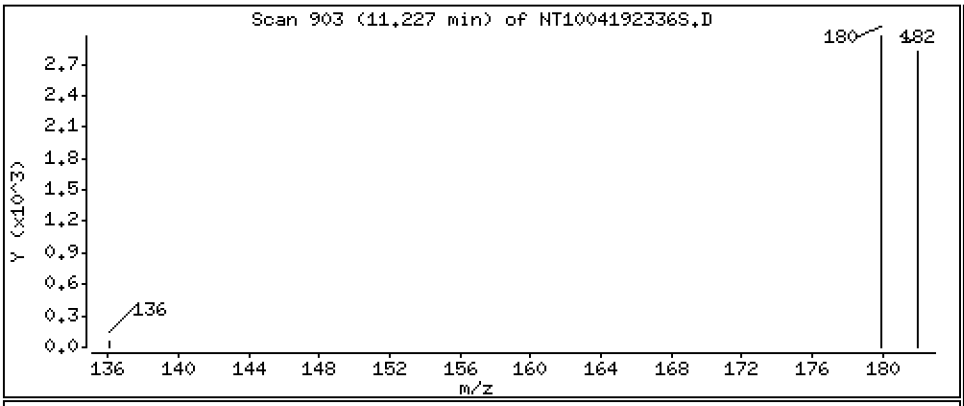
Operator: DSD

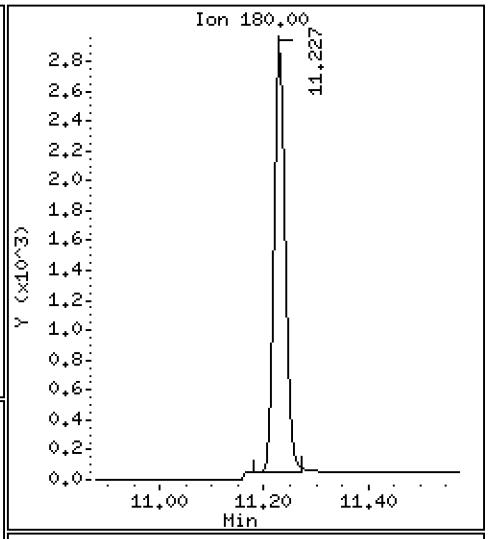
Column phase: ZB-5msi

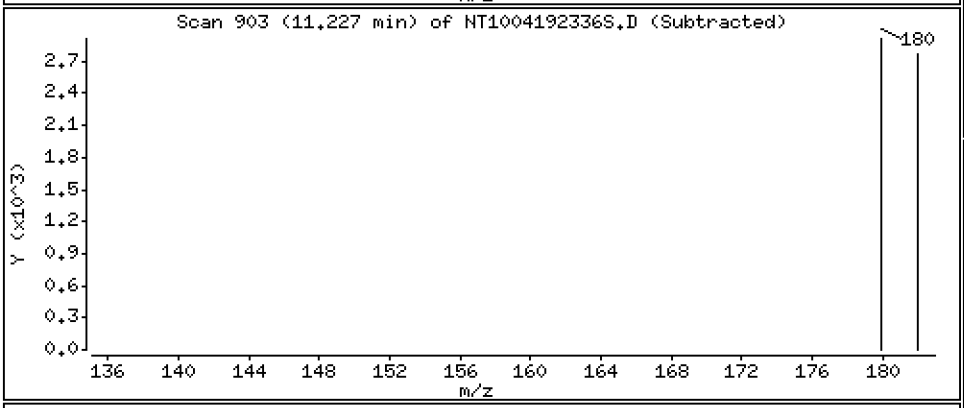
Column diameter: 0.25

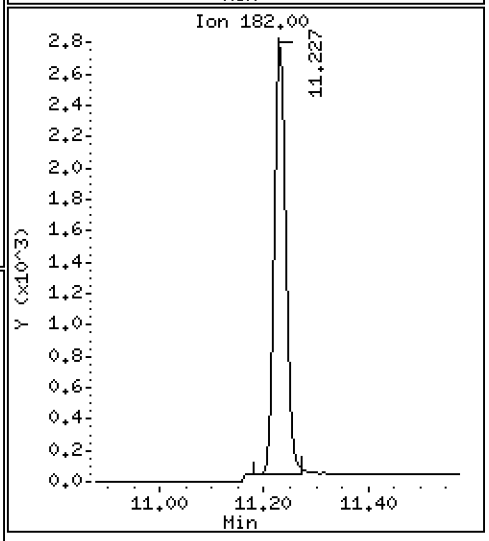
26 1,2,4-Trichlorobenzene

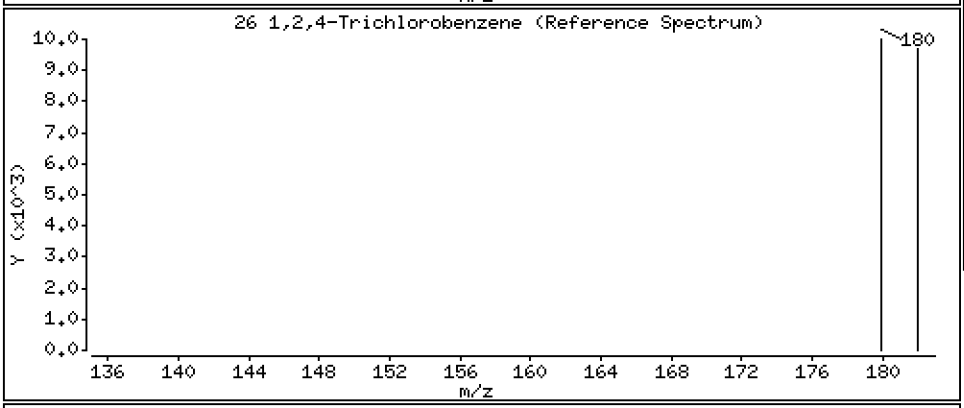
Concentration: 0.1012 ug/L

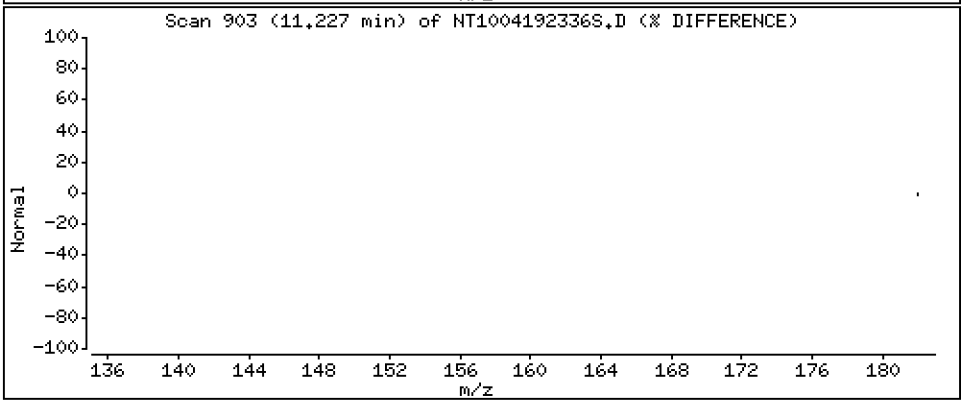












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192336S.D

Date : 20-APR-2023 09:35

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-LCV1

Volume Injected (uL): 1.0

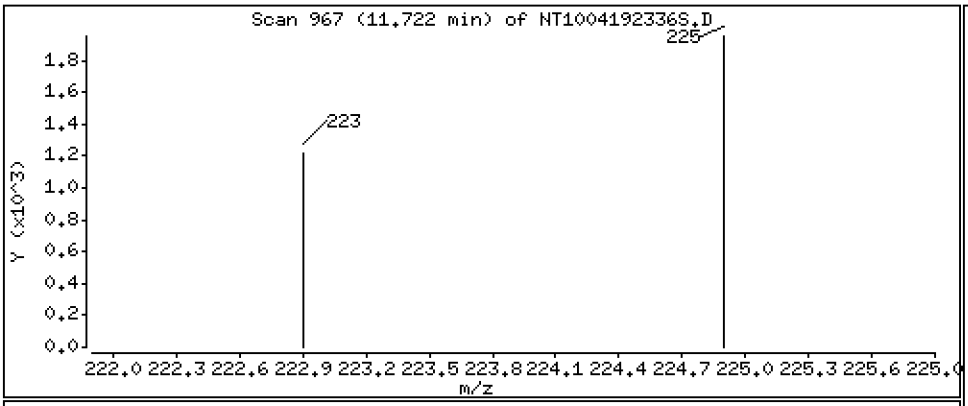
Operator: DSD

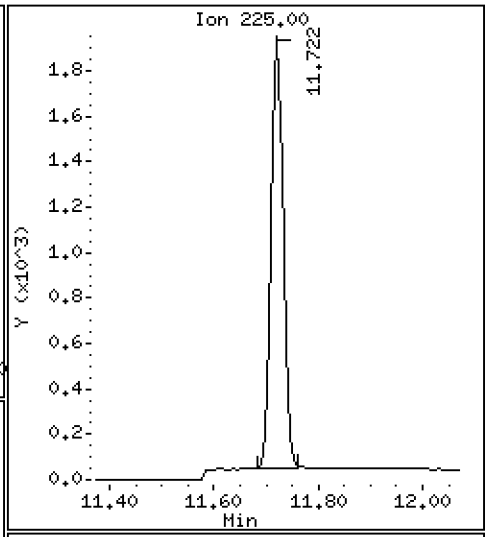
Column phase: ZB-5msi

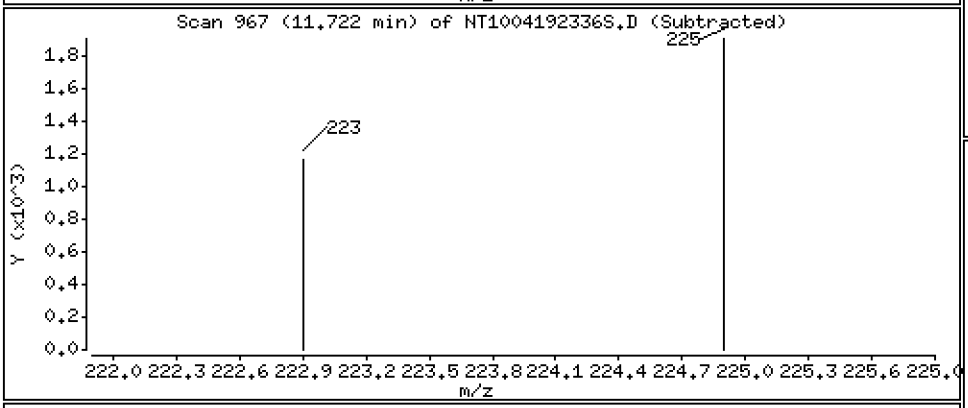
Column diameter: 0.25

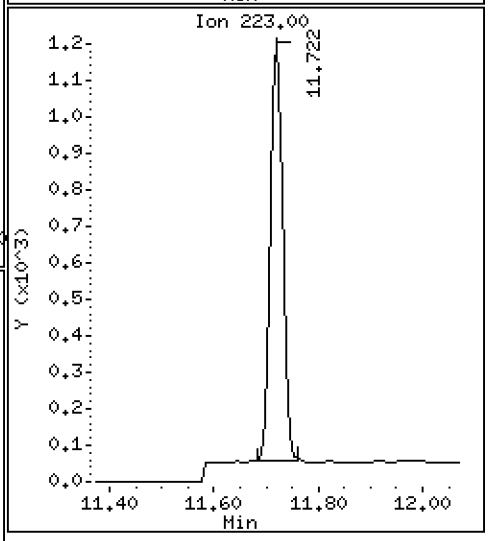
30 Hexachlorobutadiene

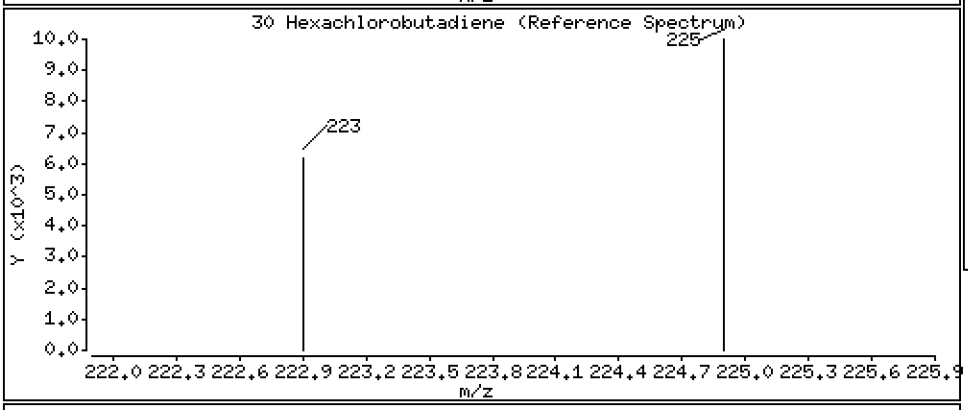
Concentration: 0.1064 ug/L

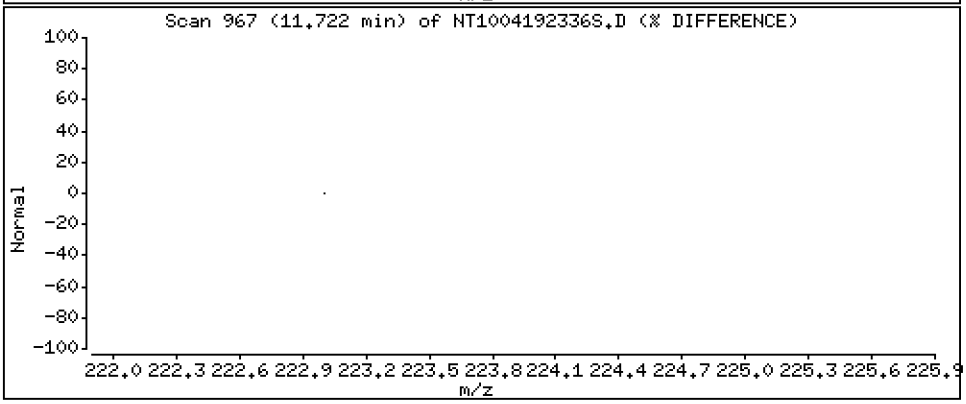












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Date : 20-APR-2023 09:35

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-LCV1

Volume Injected (uL): 1.0

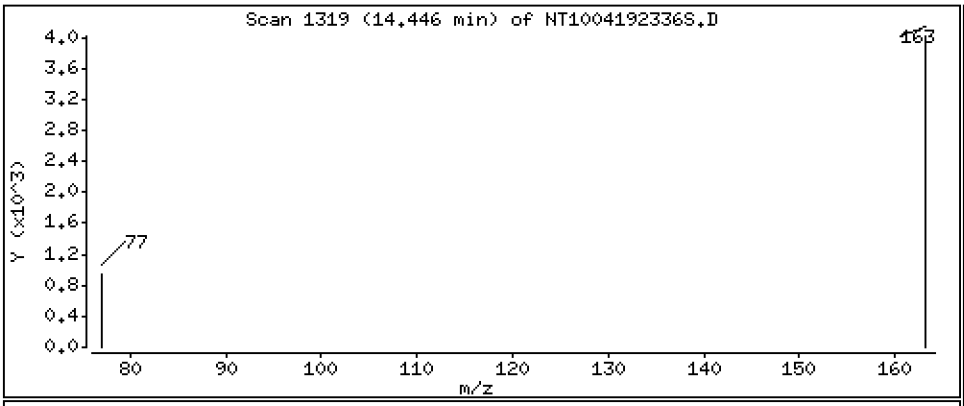
Operator: DSD

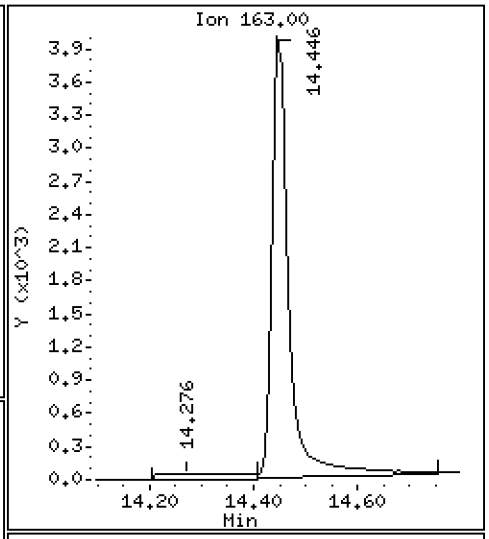
Column phase: ZB-5msi

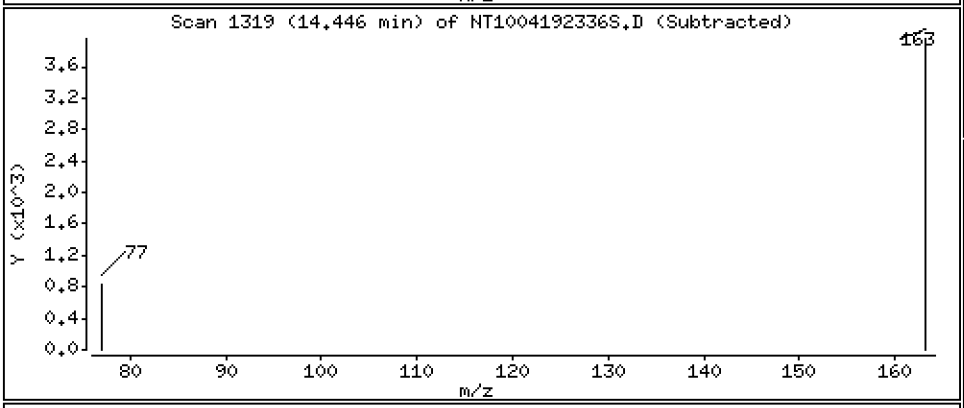
Column diameter: 0.25

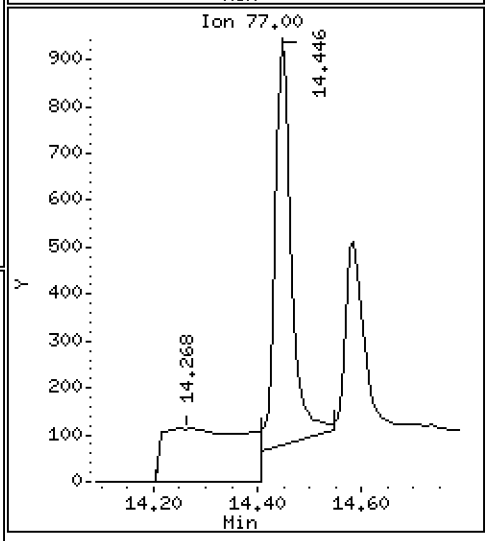
39 Dimethylphthalate

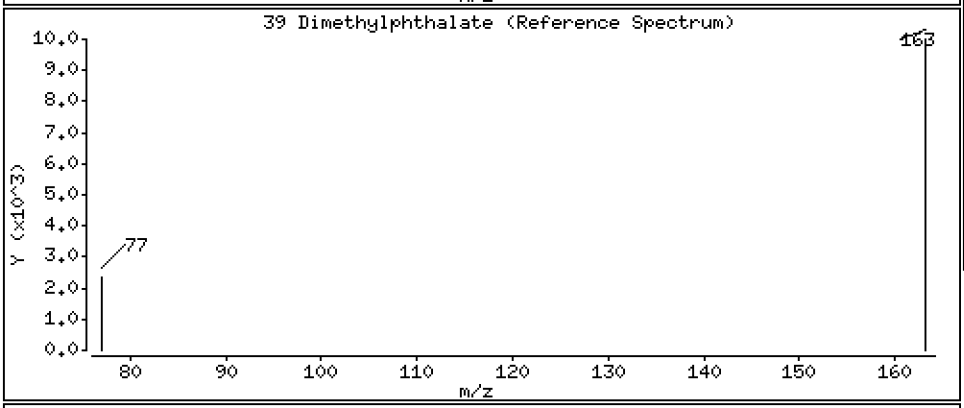
Concentration: 0.1016 ug/L

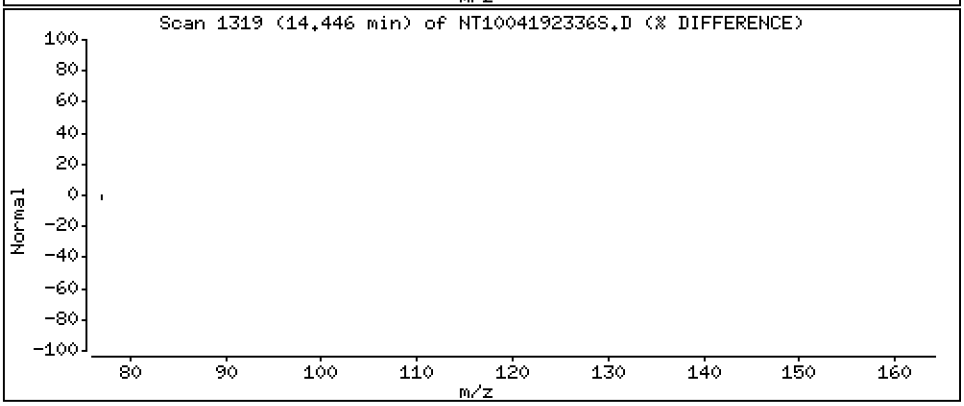












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Date : 20-APR-2023 09:35

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-LCV1

Volume Injected (uL): 1.0

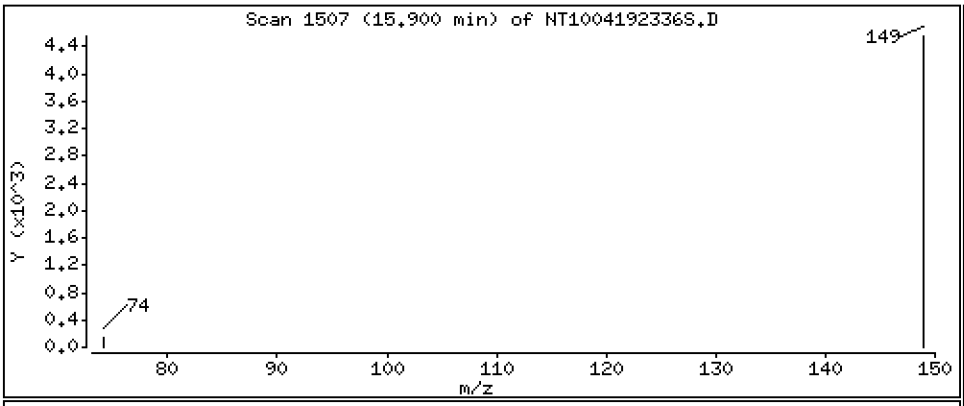
Operator: DSD

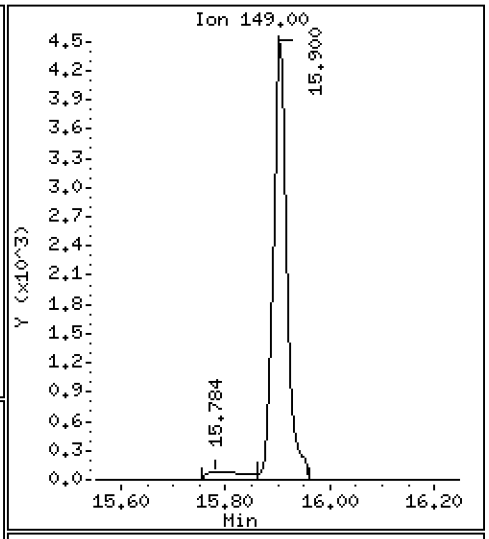
Column phase: ZB-5msi

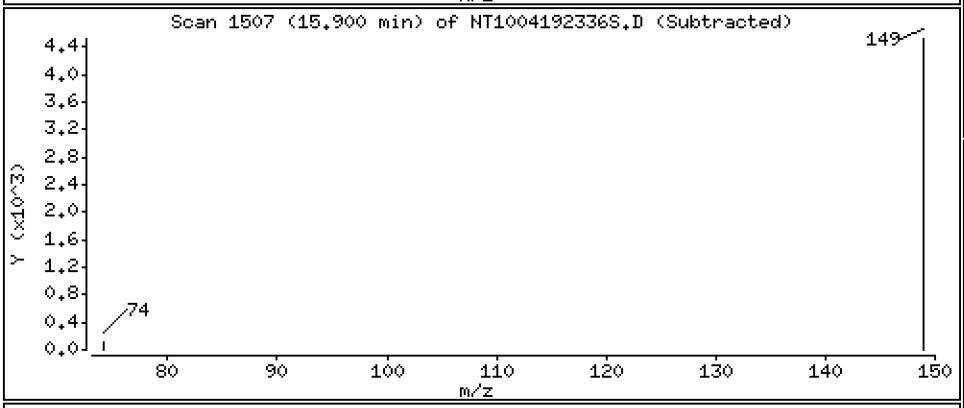
Column diameter: 0.25

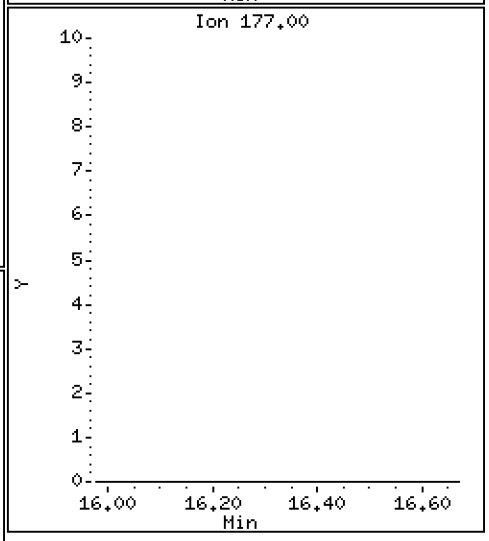
50 Diethylphthalate

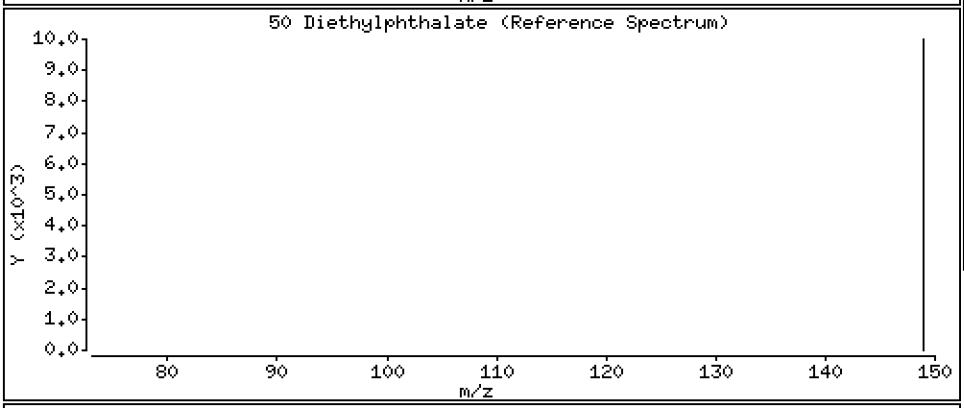
Concentration: 0.09383 ug/L

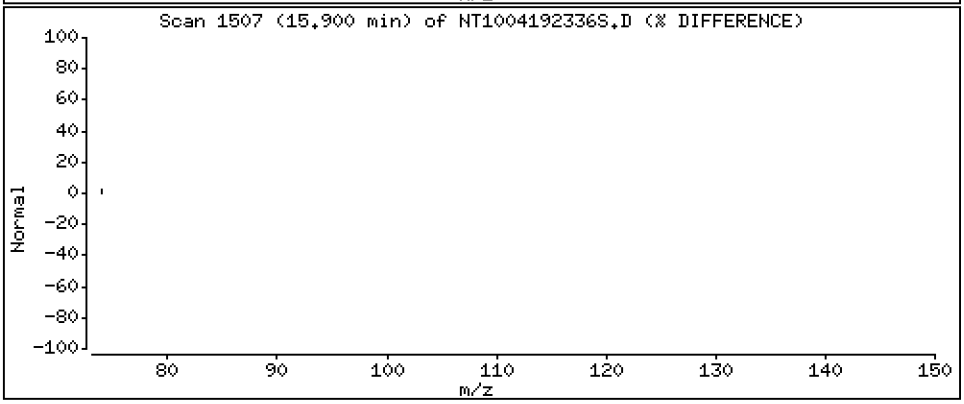












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Date : 20-APR-2023 09:35

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-LCV1

Volume Injected (uL): 1.0

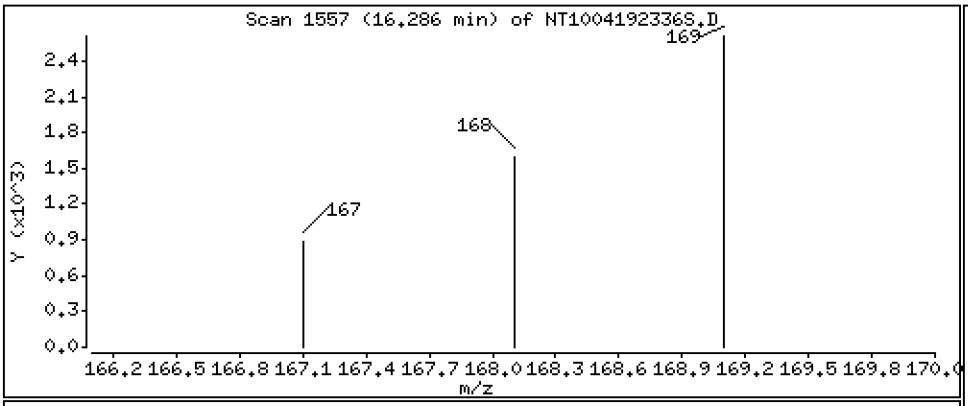
Operator: DSD

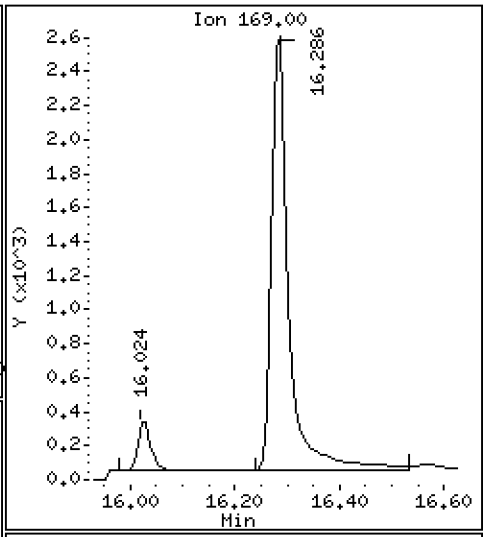
Column phase: ZB-5msi

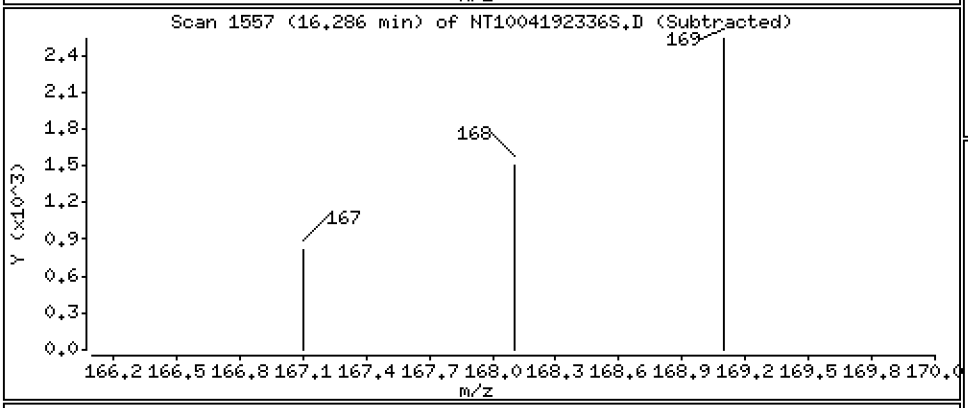
Column diameter: 0.25

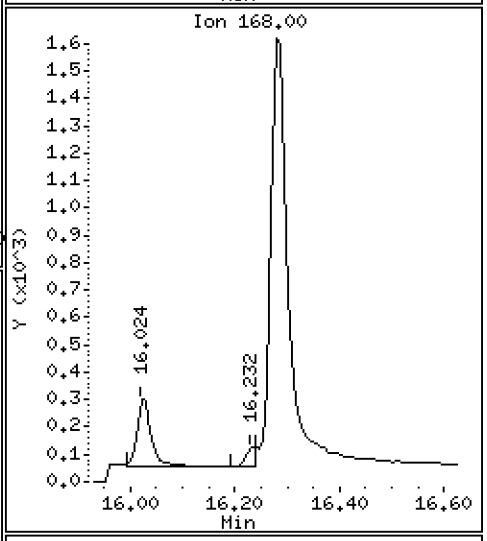
54 N-Nitrosodiphenylamine

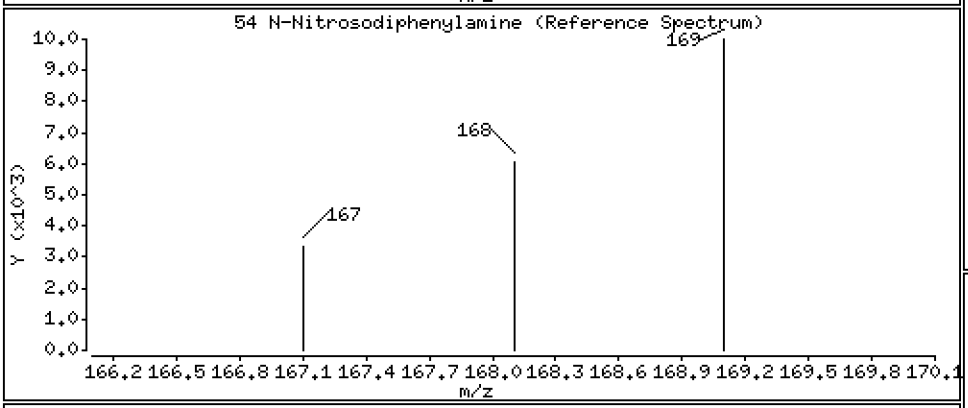
Concentration: 0.09243 ug/L

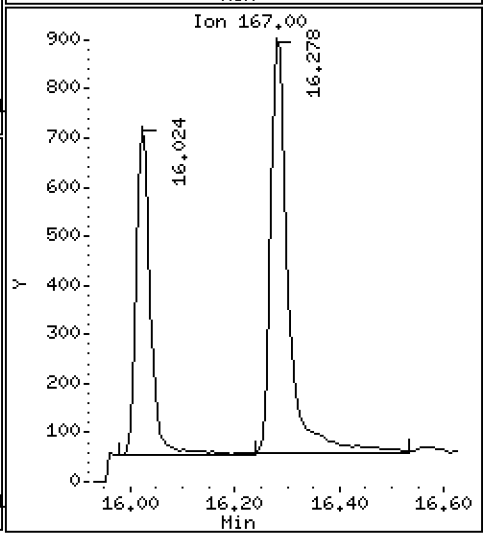


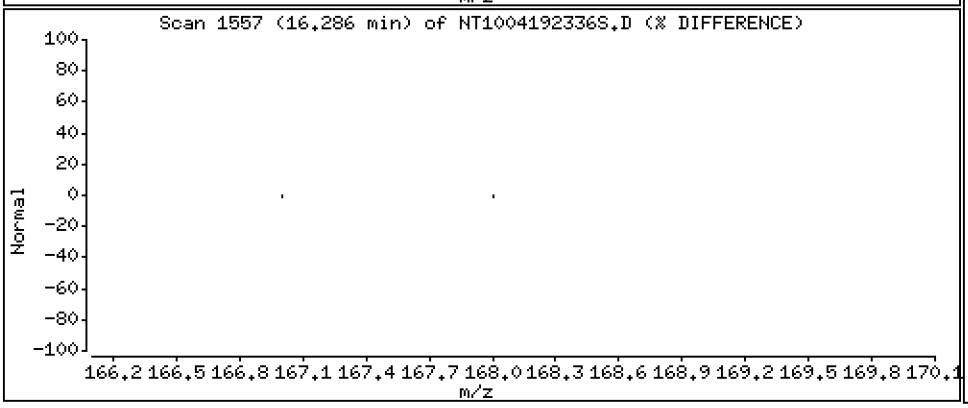












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Date : 20-APR-2023 09:35

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-LCV1

Volume Injected (uL): 1.0

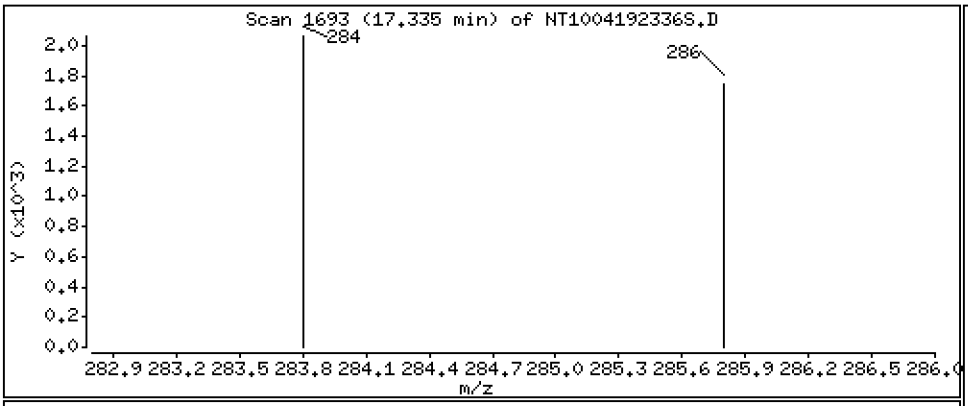
Operator: DSD

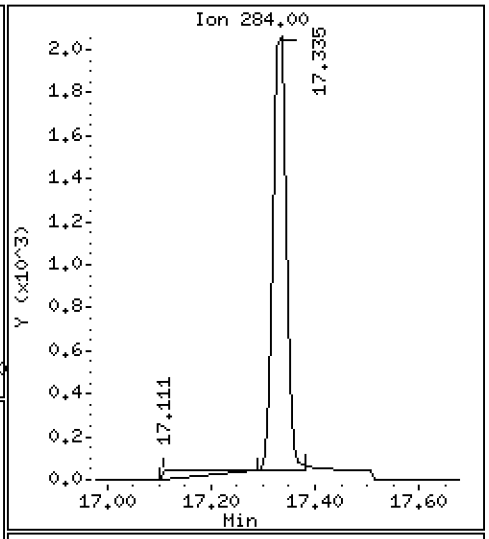
Column phase: ZB-5msi

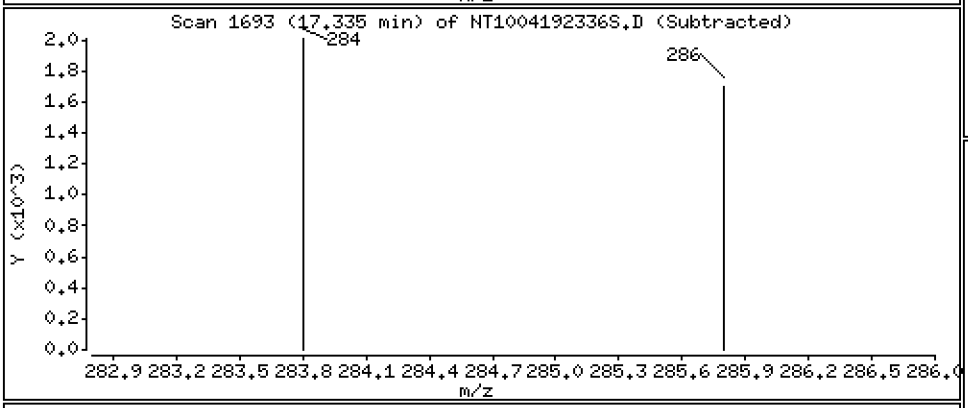
Column diameter: 0.25

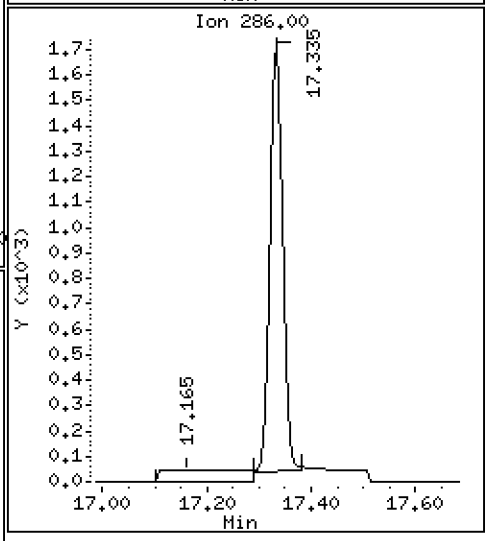
57 Hexachlorobenzene

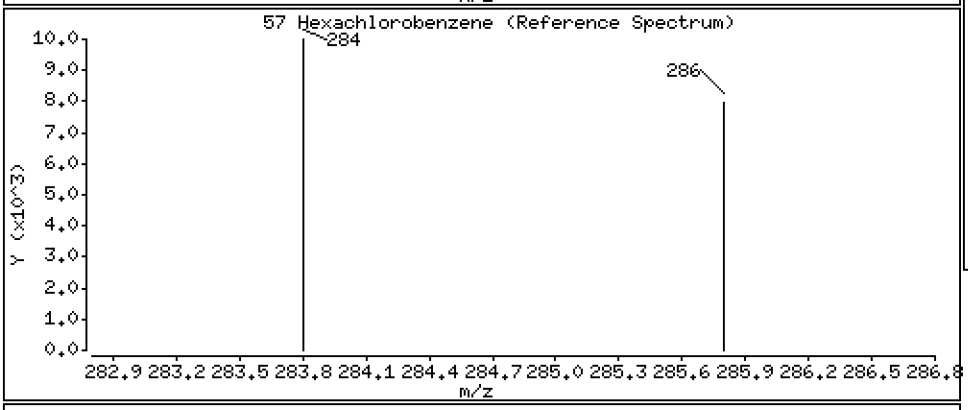
Concentration: 0.1238 ug/L

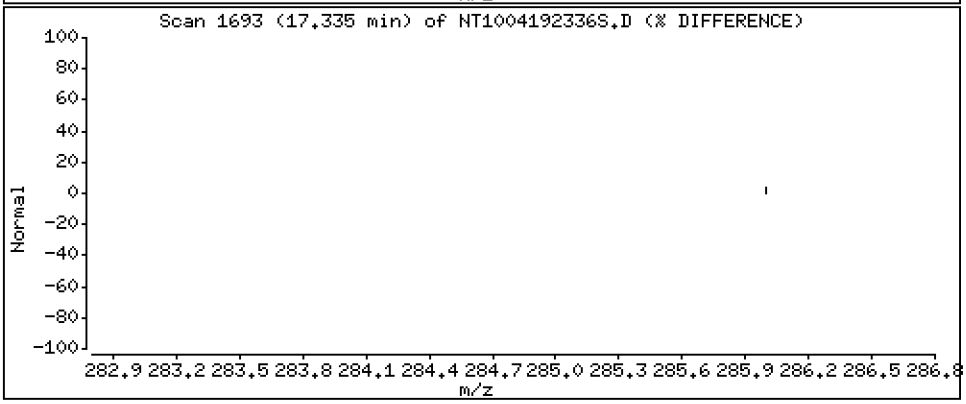












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Date : 20-APR-2023 09:35

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-LCV1

Volume Injected (uL): 1.0

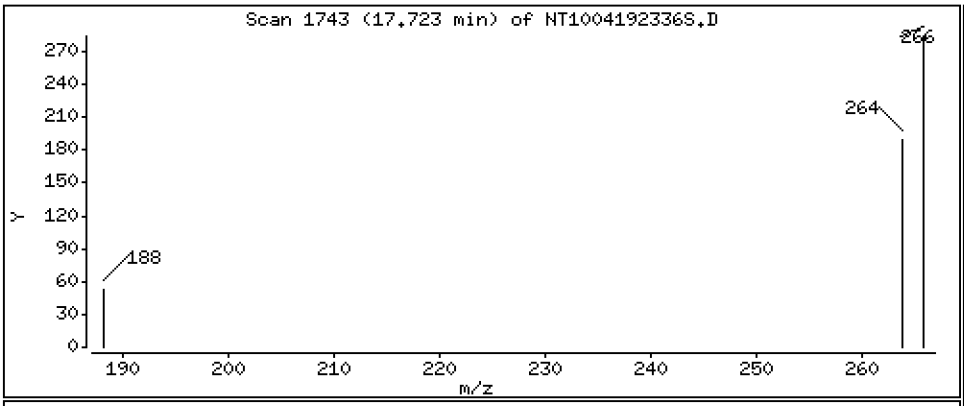
Operator: DSD

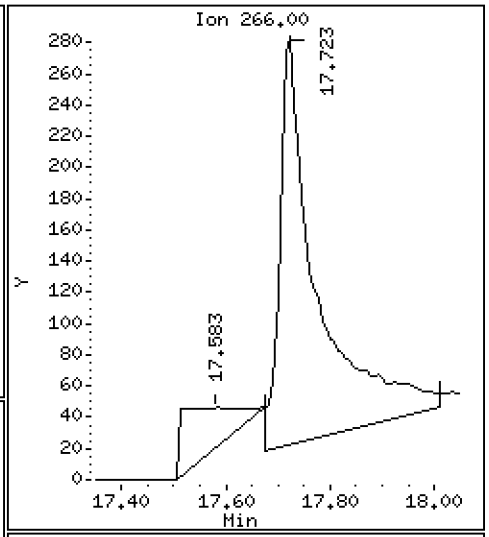
Column phase: ZB-5msi

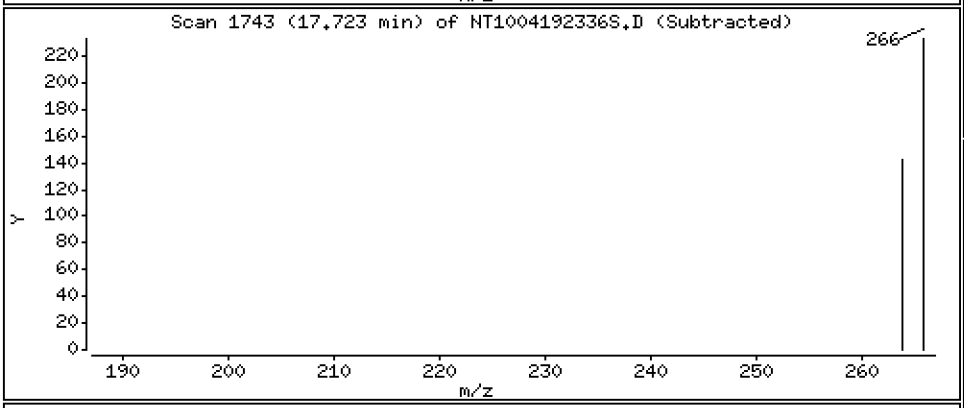
Column diameter: 0.25

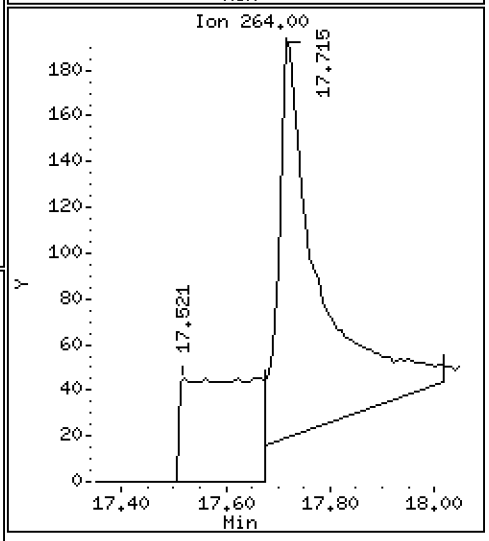
58 Pentachlorophenol

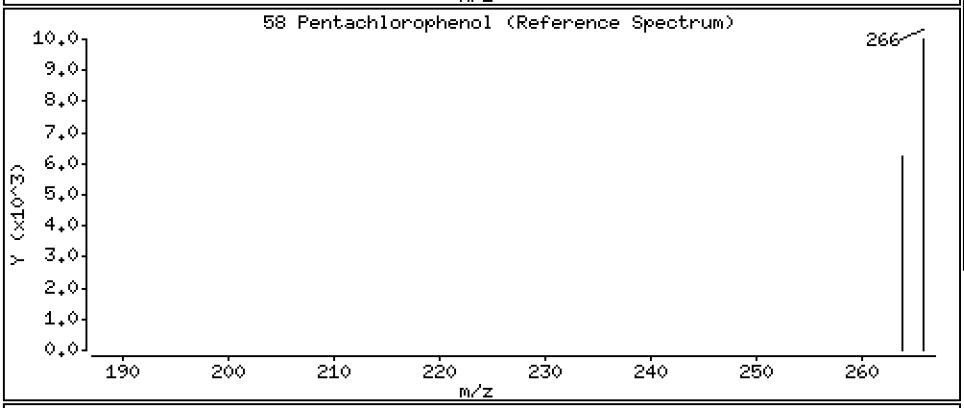
Concentration: 0.08773 ug/L

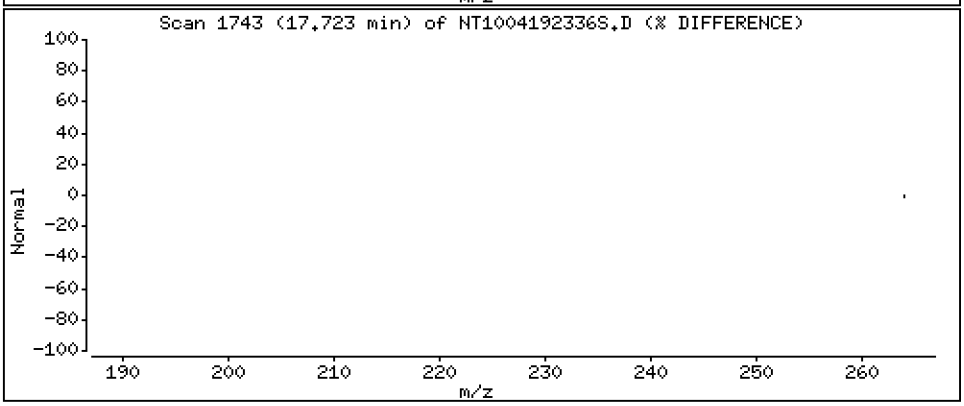












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192336S.D

Date : 20-APR-2023 09:35

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-LCV1

Volume Injected (uL): 1.0

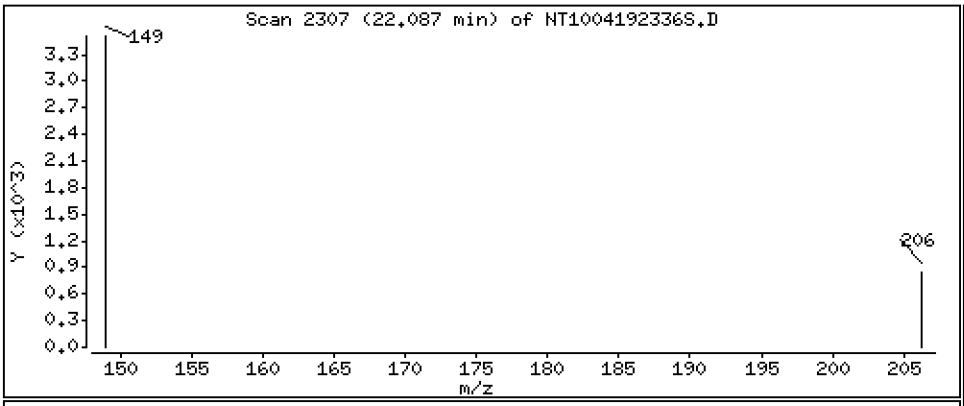
Operator: DSD

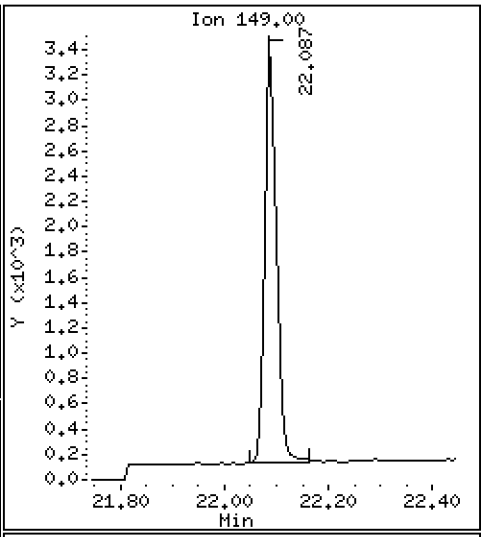
Column phase: ZB-5msi

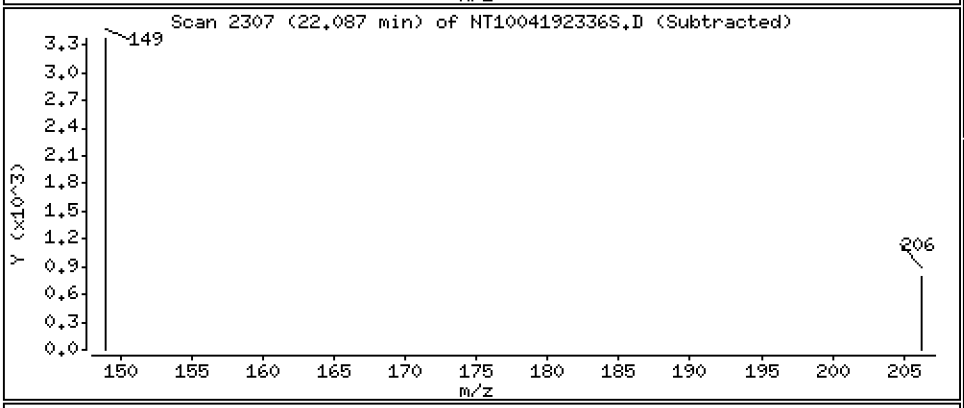
Column diameter: 0.25

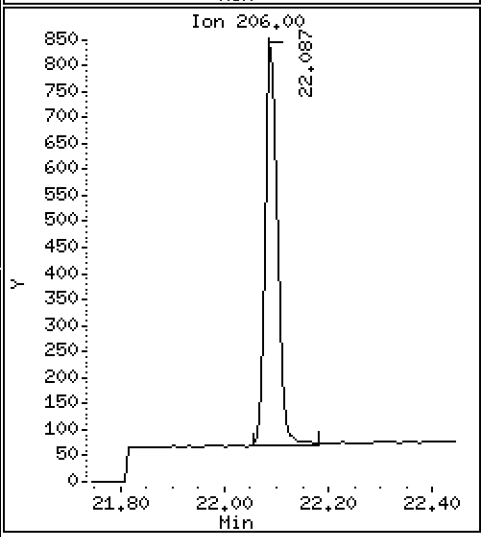
67 Butylbenzylphthalate

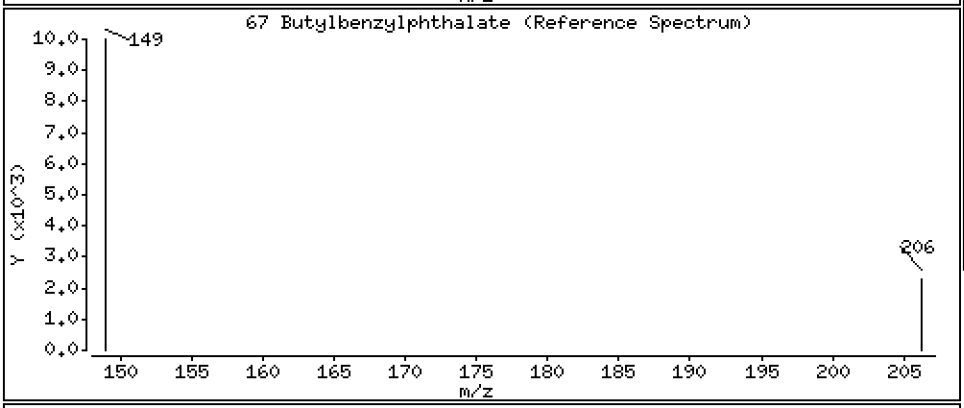
Concentration: 0.08186 ug/L

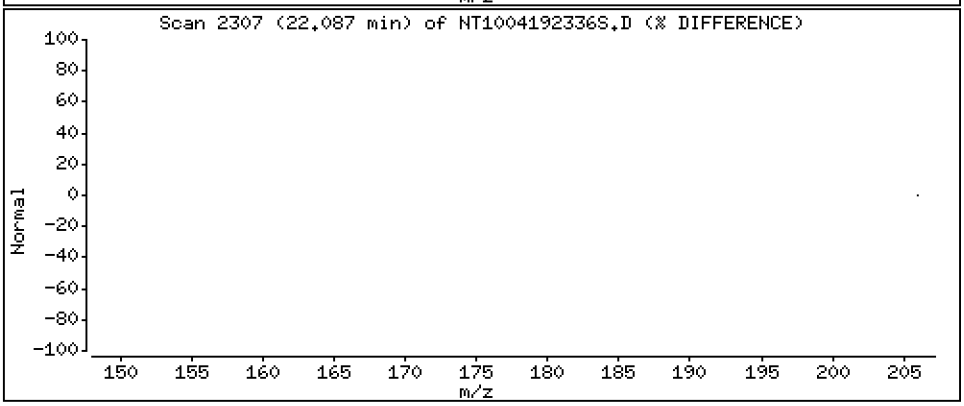












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192336S.D

Date : 20-APR-2023 09:35

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-LCV1

Volume Injected (uL): 1.0

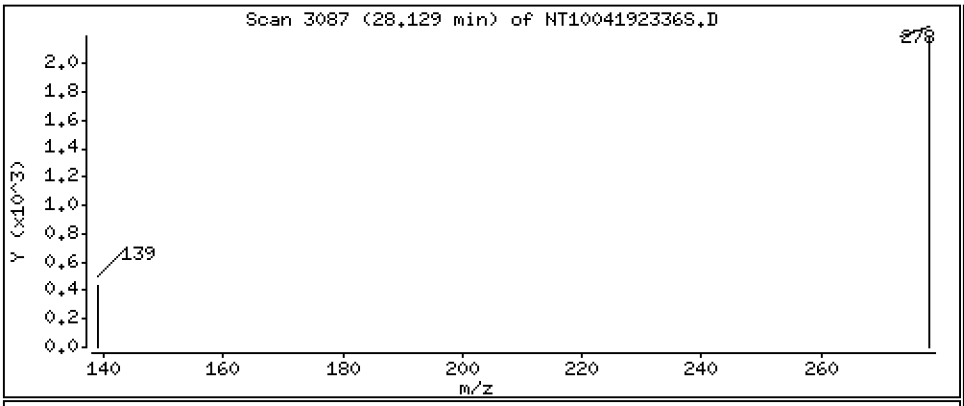
Operator: DSD

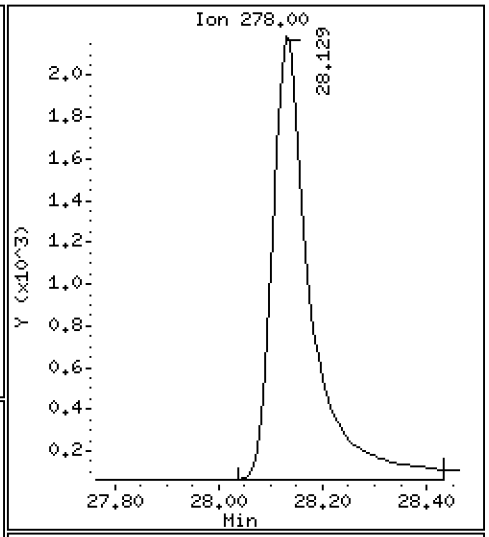
Column phase: ZB-5msi

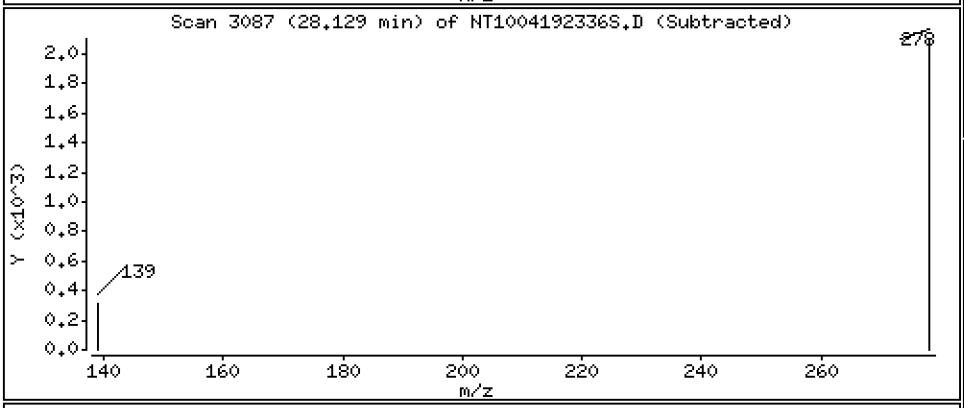
Column diameter: 0.25

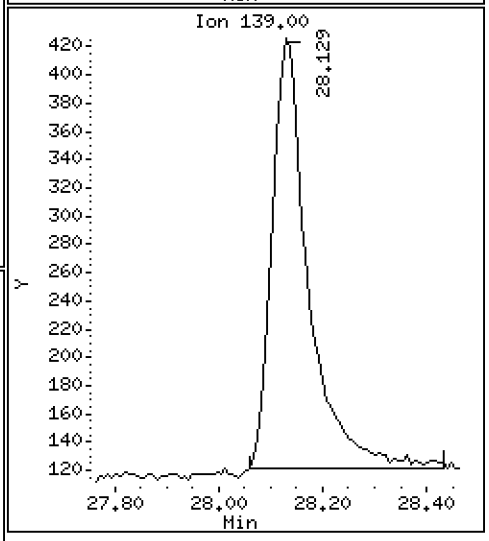
79 Dibenzo(a,h)anthracene

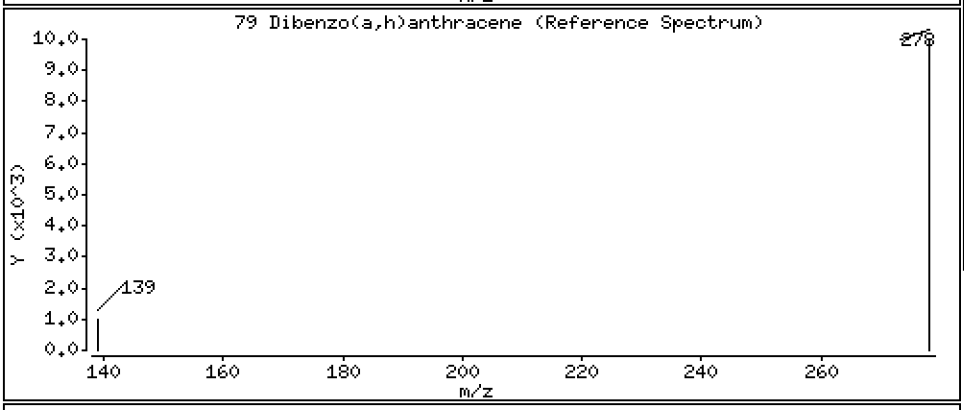
Concentration: 0.06548 ug/L

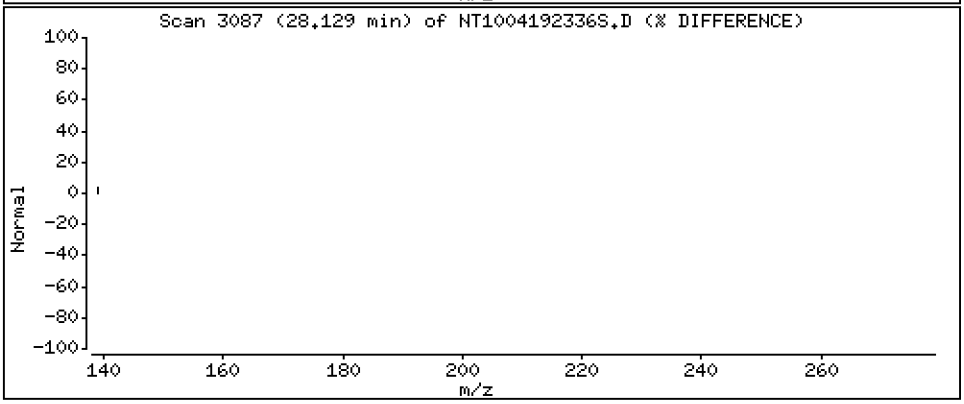












Data File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192336S.D

Date : 20-APR-2023 09:35

Client ID:

Instrument: nt10.i

Sample Info: SLD0302-LCV1

Volume Injected (uL): 1.0

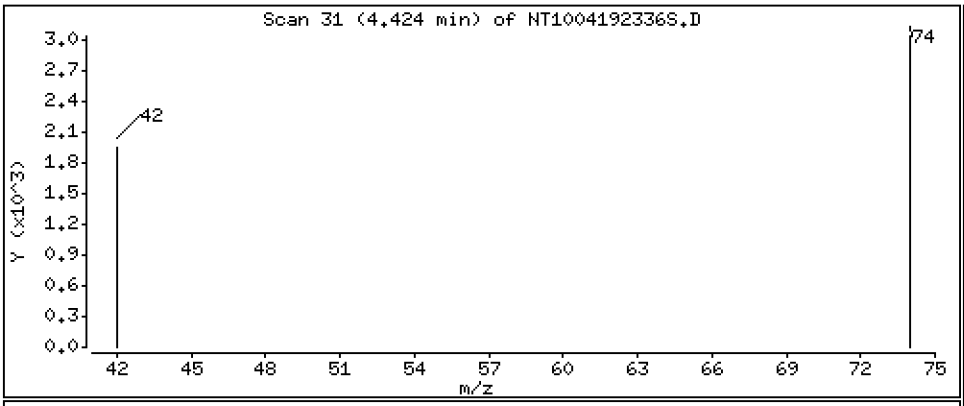
Operator: DSD

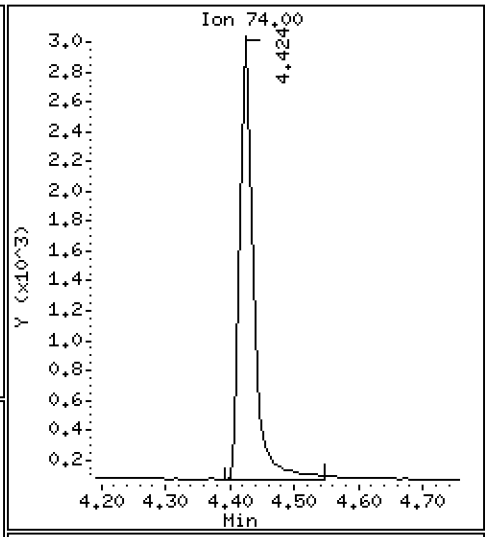
Column phase: ZB-5msi

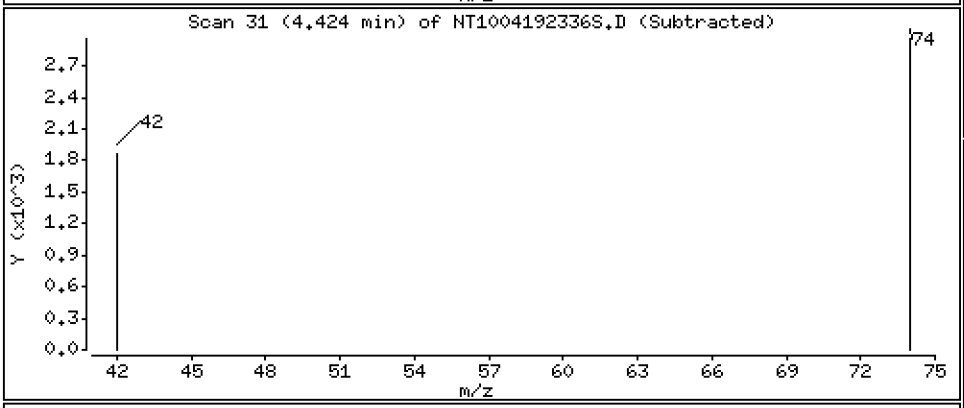
Column diameter: 0.25

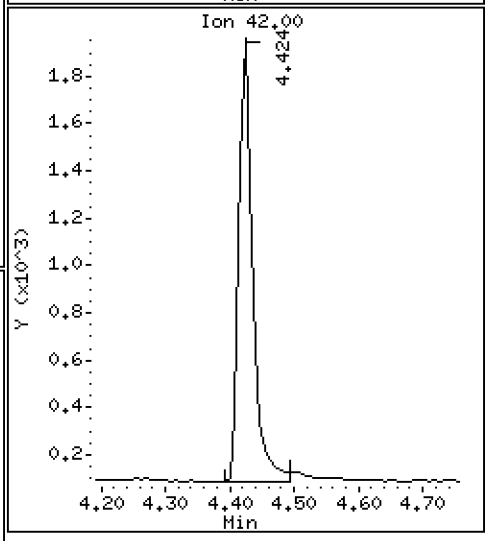
90 N-Nitrosodimethylamine

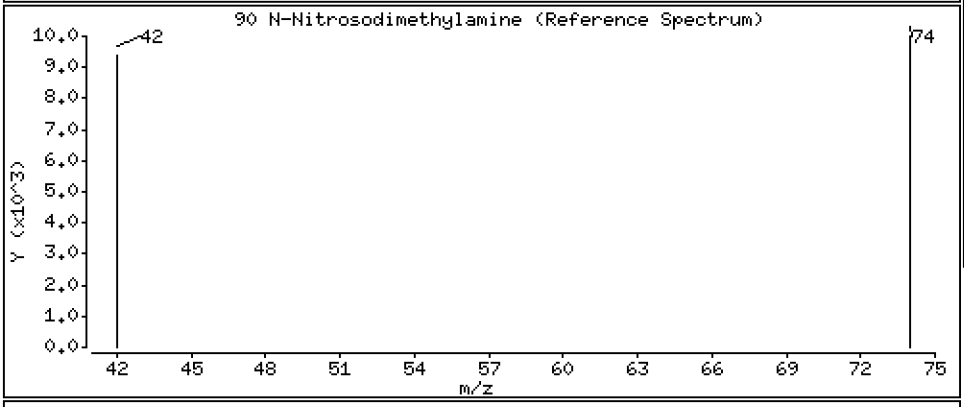
Concentration: 0.1588 ug/L

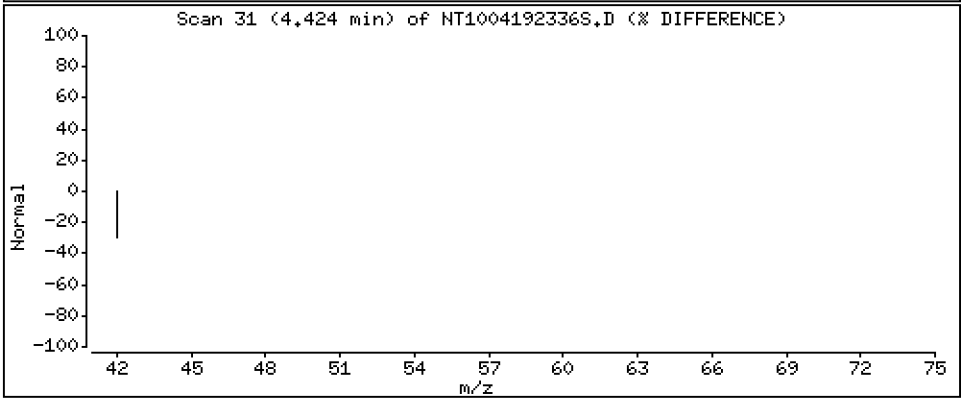












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\NT1004192336S.D
Lab Smp Id: SLD0302-LCV1
Inj Date : 20-APR-2023 09:35 MS Autotune Date: 16-JAN-2023 17:42
Operator : DSD Inst ID: nt10.i
Smp Info : SLD0302-LCV1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\SIMABN2.m
Meth Date : 21-Apr-2023 13:41 deenayd Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.617	6.617	(0.749)	5578	0.12636	0.1264(R)
3	Phenol	94	8.247	8.240	(0.933)	4684	0.07734	0.07734
7	1,3-Dichlorobenzene	146	8.765	8.766	(0.992)	5577	0.09841	0.09841
* 8	1,4-Dichlorobenzene-d4	152	8.835	8.835	(1.000)	145568	4.00000	
9	1,4-Dichlorobenzene	146	8.859	8.859	(1.003)	5415	0.09899	0.09899
11	Benzyl alcohol	79	9.130	9.115	(1.033)	3183	0.09066	0.09066
12	1,2-Dichlorobenzene	146	9.216	9.216	(1.043)	5250	0.09759	0.09759
13	2-Methylphenol	108	9.355	9.348	(1.059)	3646	0.08688	0.08688
15	4-Methylphenol	108	9.635	9.627	(1.090)	3459	0.07933	0.07933
16	N-Nitroso-di-n-propylamine	70	9.674	9.674	(1.095)	2614	0.08477	0.08477
22	2,4-Dimethylphenol	107	10.664	10.656	(0.943)	7793	0.17586	0.1759
24	Benzoic acid	105	10.919	10.809	(0.965)	1334	0.05507	0.05507
26	1,2,4-Trichlorobenzene	180	11.227	11.227	(0.992)	4509	0.10115	0.1012
* 27	Naphthalene-d8	136	11.312	11.312	(1.000)	512655	4.00000	
30	Hexachlorobutadiene	225	11.721	11.721	(1.036)	2883	0.10638	0.1064
39	Dimethylphthalate	163	14.445	14.446	(0.968)	8582	0.10158	0.1016
* 42	Acenaphthene-d10	162	14.918	14.918	(1.000)	267732	4.00000	
50	Diethylphthalate	149	15.899	15.900	(1.066)	8213	0.09383	0.09383
54	N-Nitrosodiphenylamine	169	16.285	16.278	(0.907)	5626	0.09243	0.09243
57	Hexachlorobenzene	284	17.335	17.327	(0.966)	3372	0.12376	0.1238

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.722	17.699	(0.987)	1320	0.08773	0.08773
*	59 Phenanthrene-d10	188	17.954	17.947	(1.000)	453656	4.00000	
$	66 Terphenyl-d14	244	21.142	21.142	(0.917)	5615	0.07492	0.07492(R)
	67 Butylbenzylphthalate	149	22.086	22.094	(0.958)	4952	0.08186	0.08186
*	69 Chrysene-d12	240	23.047	23.047	(1.000)	459961	4.00000	
*	77 Perylene-d12	264	25.586	25.594	(1.000)	504020	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.128	28.113	(1.099)	10832	0.06548	0.06548
	90 N-Nitrosodimethylamine	74	4.424	4.408	(0.501)	4445	0.15877	0.1588

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1004192336S.D
Lab Smp Id: SLD0302-LCV1
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230419B.b\20230419B.b\SIMABN2.m
Misc Info:

Calibration Date: 20-APR-2023
Calibration Time: 08:57
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	128281	64141	256562	145568	13.48
27 Naphthalene-d8	458707	229354	917414	512655	11.76
42 Acenaphthene-d10	243296	121648	486592	267732	10.04
59 Phenanthrene-d10	433853	216927	867706	453656	4.56
69 Chrysene-d12	435413	217707	870826	459961	5.64
77 Perylene-d12	490854	245427	981708	504020	2.68

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.84	8.34	9.34	8.84	-0.00
27 Naphthalene-d8	11.31	10.81	11.81	11.31	-0.00
42 Acenaphthene-d10	14.92	14.42	15.42	14.92	-0.00
59 Phenanthrene-d10	17.95	17.45	18.45	17.95	0.04
69 Chrysene-d12	23.05	22.55	23.55	23.05	-0.00
77 Perylene-d12	25.59	25.09	26.09	25.59	-0.03

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

REVIEW SUMMARY FOR FILE - NT1004192336S.D

Lab ID: SLD0302-LCV1
nt10.i, 20230419B.b\20230419B.b\SIMABN2.m,   20-APR-2023 09:35

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.965	0.956	0.0098	Benzoic acid

RRT check based on Ccal File: 20230419B.b/NT1004192335S.D

On Column LOD for nt10.i, 20230419B.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0238	Instrument:	NT10
		Calibration:	GC00049

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SLC0238-TUN1	NT10031501S.D	NA	03/15/23 20:19
ABN 10.0	SLC0238-CAL8	NT10031503S.D	NA	03/15/23 21:12
ABN 5.0	SLC0238-CAL7	NT10031504S.D	NA	03/15/23 21:50
ABN 2.5	SLC0238-CAL6	NT10031505S.D	NA	03/15/23 22:28
ABN 1.0	SLC0238-CAL5	NT10031506S.D	NA	03/15/23 23:06
ABN 0.5	SLC0238-CAL4	NT10031507S.D	NA	03/15/23 23:44
ABN 0.2	SLC0238-CAL3	NT10031508S.D	NA	03/16/23 00:22
ABN 0.1	SLC0238-CAL2	NT10031509S.D	NA	03/16/23 01:00
ABN 0.05	SLC0238-CAL1	NT10031510S.D	NA	03/16/23 01:38
SCV 5.0	SLC0238-SCV1	NT10031511S.D	NA	03/16/23 02:16
Initial Cal Blank	SLC0238-ICB1	NT10031512S.D	NA	03/16/23 02:54

ANALYSIS SEQUENCE

SLC0238

Instrument ID: NT10
Calibration ID: GC00049
MS EM Level: 1271 EV

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

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLC0238-TUN1	MS Tune	QC		1	L002618		03/15/2023 20:19	NT10031501S.D	JGR	
SLC0238-CAL8	ABN 10.0	QC		2	K011110	K010831	03/15/2023 21:12	NT10031503S.D	JGR	
SLC0238-CAL7	ABN 5.0	QC		3	K011109	K010831	03/15/2023 21:50	NT10031504S.D	JGR	
SLC0238-CAL6	ABN 2.5	QC		4	K011108	K010831	03/15/2023 22:28	NT10031505S.D	JGR	
SLC0238-CAL5	ABN 1.0	QC		5	K011107	K010831	03/15/2023 23:06	NT10031506S.D	JGR	
SLC0238-CAL4	ABN 0.5	QC		6	K011106	K010831	03/15/2023 23:44	NT10031507S.D	JGR	
SLC0238-CAL3	ABN 0.2	QC		7	K011105	K010831	03/16/2023 00:22	NT10031508S.D	JGR	
SLC0238-CAL2	ABN 0.1	QC		8	L002877	K010831	03/16/2023 01:00	NT10031509S.D	JGR	
SLC0238-CAL1	ABN 0.05	QC		9	L002878	K010831	03/16/2023 01:38	NT10031510S.D	JGR	
SLC0238-SCV1	SCV 5.0	QC		10	K010066	K010831	03/16/2023 02:16	NT10031511S.D	JGR	
SLC0238-ICB1	Initial Cal Blank	QC		11	K005156	K010831	03/16/2023 02:54	NT10031512S.D	JGR	

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

	Time	Filename	LabID	ClientId	DF											
1	2019	NT10031501S.D	SLC0238-TUN1		1	|NO ISTDS FOUND||										
2	2034	NT10031502S.D	FULL SCAN ONLY		1	9.31	193857||	11.78	709633||	15.39	344841||	18.43	635594||	23.46	392013||	26.19	449978|
3	2112	NT10031503S.D	SLC0238-CAL8		1	9.31	192425||	11.78	689875||	15.39	341663||	18.42	651934||	23.45	482051||	26.19	502718|
4	2150	NT10031504S.D	SLC0238-CAL7		1	9.30	187419||	11.77	682446||	15.38	331603||	18.42	598629||	23.45	389338||	26.19	466441|
5	2228	NT10031505S.D	SLC0238-CAL6		1	9.30	173412||	11.78	624286||	15.38	310309||	18.43	554860||	23.46	385144||	26.19	456369|
6	2306	NT10031506S.D	SLC0238-CAL5		1	9.30	188081||	11.77	674549||	15.39	328275||	18.42	597140||	23.45	466503||	26.19	518203|
7	2344	NT10031507S.D	SLC0238-CAL4		1	9.30	191648||	11.77	679665||	15.39	335786||	18.42	613961||	23.45	464623||	26.19	521317|
8	0022	NT10031508S.D	SLC0238-CAL3		1	9.30	188644||	11.78	664117||	15.38	328147||	18.42	603272||	23.46	468991||	26.18	525052|
9	0100	NT10031509S.D	SLC0238-CAL2		1	9.30	190985||	11.77	684638||	15.39	328366||	18.42	602202||	23.45	451316||	26.19	517188|
10	0138	NT10031510S.D	SLC0238-CAL1		1	9.30	187154||	11.78	654413||	15.38	318969||	18.42	583319||	23.46	440533||	26.19	488759|
11	0216	NT10031511S.D	SLC0238-SCV1		1	9.31	166866||	11.78	612104||	15.39	302524||	18.43	553619||	23.46	465428||	26.19	532593|
12	0254	NT10031512S.D	SLC0238-ICB1		1	9.31	189475||	11.77	676186||	15.38	328650||	18.42	617605||	23.45	473513||	26.19	534734|

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

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

Time	Filename	LabID	DF	Manually Integrated Compounds
2019	NT10031501S.D	SLC0238-TUN1	1	NO MANUAL INTEGRATION
2034	NT10031502S.D	FULL SCAN ONLY	1	NO MANUAL INTEGRATION
2112	NT10031503S.D	SLC0238-CAL8	1	NO MANUAL INTEGRATION
2150	NT10031504S.D	SLC0238-CAL7	1	NO MANUAL INTEGRATION
2228	NT10031505S.D	SLC0238-CAL6	1	NO MANUAL INTEGRATION
2306	NT10031506S.D	SLC0238-CAL5	1	NO MANUAL INTEGRATION
2344	NT10031507S.D	SLC0238-CAL4	1	NO MANUAL INTEGRATION
0022	NT10031508S.D	SLC0238-CAL3	1	Benzoic acid,
0100	NT10031509S.D	SLC0238-CAL2	1	Pentachlorophenol,
0138	NT10031510S.D	SLC0238-CAL1	1	Pentachlorophenol,
0216	NT10031511S.D	SLC0238-SCV1	1	Terphenyl-d14,
0254	NT10031512S.D	SLC0238-ICB1	1	NO MANUAL INTEGRATION

Security Status Report

Date: 16-Mar-2023 14:47

NT10031501S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031502S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031503S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031504S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031505S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031506S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031507S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031508S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031509S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031510S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031511S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031512S.D	Data Locked	van, 16-Mar-2023 14:47

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0302
Instrument: NT10
Calibration: GC00049

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SLD0302-TUN1	NT1004192301SB.D	NA	04/19/23 10:48
Initial Cal Check	SLD0302-ICV1	NT1004192335SB.D	NA	04/20/23 08:57
ABN 0.1	SLD0302-LCV1	NT1004192336S.D	NA	04/20/23 09:35
Blank	BLD0008-BLK2	NT1004192337S.D	Solid	04/20/23 10:13
LCS	BLD0008-BS2	NT1004192338S.D	Solid	04/20/23 10:51
LCS Dup	BLD0008-BSD2	NT1004192339S.D	Solid	04/20/23 11:29
Reference	BLD0008-SRM2	NT1004192340S.D	Solid	04/20/23 12:07
LDW23-SS1026	23C0752-01	NT1004192341S.D	Solid	04/20/23 12:45
LDW23-SS1125	23C0752-02	NT1004192342S.D	Solid	04/20/23 13:24
LDW23-SS1132	23C0752-03	NT1004192343S.D	Solid	04/20/23 14:02
LDW23-SS1810	23C0752-04	NT1004192344S.D	Solid	04/20/23 14:40
LDW23-SS1810	BLD0008-MS2	NT1004192345S.D	Solid	04/20/23 15:18
LDW23-SS1810	BLD0008-MSD2	NT1004192346S.D	Solid	04/20/23 15:56
LDW23-SS1809	23C0752-06	NT1004192347S.D	Solid	04/20/23 16:34
Calibration Check	SLD0302-CCV1	NT1004192350S.D	NA	04/20/23 18:28

ANALYSIS SEQUENCE

SLD0302

Instrument ID: NT10
Calibration ID: GC00049
MS EM Level: 1317.6 EV

GCMS Description: Agilent 5975/MS http://bi
GCMS Column ID: L002738

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLD0302-TUN1	MS Tune	QC		1	L002618		04/19/2023 10:48	NT1004192301SB.D	DSD	
SLD0302-ICV1	Initial Cal Check	QC		2	K011107	K010831	04/20/2023 08:57	NT1004192335SB.D	DSD	
SLD0302-LCV1	ABN 0.1	QC		3	K011452	K010831	04/20/2023 09:35	NT1004192336S.D	DSD	
BLD0008-BLK2	Blank	QC		4		K010831	04/20/2023 10:13	NT1004192337S.D	DSD	
BLD0008-BS2	LCS	QC		5		K010831	04/20/2023 10:51	NT1004192338S.D	DSD	
BLD0008-BSD2	LCS Dup	QC		6		K010831	04/20/2023 11:29	NT1004192339S.D	DSD	
BLD0008-SRM2	Reference	QC		7		K010831	04/20/2023 12:07	NT1004192340S.D	DSD	
23C0752-01	LDW23-SS1026	270E-SIM Dual Scan SVO	A 02	8		K010831	04/20/2023 12:45	NT1004192341S.D	DSD	
23C0752-02	LDW23-SS1125	270E-SIM Dual Scan SVO	A 02	9		K010831	04/20/2023 13:24	NT1004192342S.D	DSD	
23C0752-03	LDW23-SS1132	270E-SIM Dual Scan SVO	A 02	10		K010831	04/20/2023 14:02	NT1004192343S.D	DSD	
23C0752-04	LDW23-SS1810	270E-SIM Dual Scan SVO	A 02	11		K010831	04/20/2023 14:40	NT1004192344S.D	DSD	
BLD0008-MS2	Matrix Spike	QC		12		K010831	04/20/2023 15:18	NT1004192345S.D	DSD	
BLD0008-MSD2	Matrix Spike Dup	QC		13		K010831	04/20/2023 15:56	NT1004192346S.D	DSD	
23C0752-06	LDW23-SS1809	270E-SIM Dual Scan SVO	A 02	14		K010831	04/20/2023 16:34	NT1004192347S.D	DSD	
SLD0302-CCV1	Calibration Check	QC		15	K011107	K010831	04/20/2023 18:28	NT1004192350S.D	DSD	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230419B.b\20230419B.b

	Time	Filename	LabID	ClientId	DF						
1	1048	NT1004192301SB.D	SLD0302-TUN1		1	NO ISTDS FOUND					
2	0857	NT1004192335SB.D	SLD0302-ICV1		1	8.84 128281	11.31 458707	14.92 243296	17.95 433853	23.05 435413	25.59 490854
3	0935	NT1004192336S.D	SLD0302-LCV1		1	8.84 145568	11.31 512655	14.92 267732	17.95 453656	23.05 459961	25.59 504020
4	1013	NT1004192337S.D	BLD0008-BLK2		1	8.83 139330	11.31 504066	14.92 266360	17.95 457399	23.05 460552	25.59 502276
5	1051	NT1004192338S.D	BLD0008-BS2		1	8.84 139775	11.31 521339	14.92 287526	17.95 508983	23.05 502516	25.59 566119
6	1129	NT1004192339S.D	BLD0008-BSD2		1	8.84 129572	11.31 477337	14.92 263111	17.95 475106	23.04 466863	25.59 513987
7	1207	NT1004192340S.D	BLD0008-SRM2		1	8.83 147485	11.31 540831	14.92 292978	17.95 531375	23.05 511210	25.59 578652
8	1245	NT1004192341S.D	23C0752-01		1	8.84 152285	11.31 562371	14.92 308902	17.95 580315	23.05 621314	25.60 725654
9	1324	NT1004192342S.D	23C0752-02		1	8.84 175994	11.31 635276	14.92 333579	17.95 657160	23.06 668084	25.61 773194
10	1402	NT1004192343S.D	23C0752-03		1	8.83 159410	11.31 571882	14.92 297604	17.95 568604	23.05 578319	25.60 691315
11	1440	NT1004192344S.D	23C0752-04		1	8.84 178692	11.31 650074	14.92 337700	17.95 645163	23.05 662245	25.61 770374
12	1518	NT1004192345S.D	BLD0008-MS2		1	8.84 164953	11.31 605710	14.93 318528	17.95 619830	23.05 636207	25.61 737823
13	1556	NT1004192346S.D	BLD0008-MSD2		1	8.83 137636	11.31 497931	14.92 265384	17.95 515234	23.05 529829	25.61 626632
14	1634	NT1004192347S.D	23C0752-06		1	8.84 172260	11.31 626211	14.92 325138	17.96 633775	23.06 674106	25.62 771564
15	1828	NT1004192350S.D	SLD0302-CCV1		1	8.84 141041	11.31 498538	14.92 265212	17.95 475152	23.05 480092	25.59 565207

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230419B.b\20230419B.b

ARI Job No.: SLD0 Method: DFTPP8270E.m Instrument: nt10.i Date: 19-APR-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1048	NT1004192301SB.D	SLD0302-TUN1		1	NO MANUAL INTEGRATION
0741	NT1004192333S.D	SEQ-ICV3		1	NO MANUAL INTEGRATION
0819	NT1004192334S.D	SEQ-LCV3		1	NO MANUAL INTEGRATION
0857	NT1004192335SB.D	SLD0302-ICV1		1	NO MANUAL INTEGRATION
0935	NT1004192336S.D	SLD0302-LCV1		1	NO MANUAL INTEGRATION
1013	NT1004192337S.D	BLD0008-BLK2		1	NO MANUAL INTEGRATION
1051	NT1004192338S.D	BLD0008-BS2		1	NO MANUAL INTEGRATION
1129	NT1004192339S.D	BLD0008-BSD2		1	NO MANUAL INTEGRATION
1207	NT1004192340S.D	BLD0008-SRM2		1	NO MANUAL INTEGRATION
1245	NT1004192341S.D	23C0752-01		1	NO MANUAL INTEGRATION
1324	NT1004192342S.D	23C0752-02		1	NO MANUAL INTEGRATION
1402	NT1004192343S.D	23C0752-03		1	1,4-Dichlorobenzene,
1440	NT1004192344S.D	23C0752-04		1	1,4-Dichlorobenzene,
1518	NT1004192345S.D	BLD0008-MS2		1	NO MANUAL INTEGRATION
1556	NT1004192346S.D	BLD0008-MSD2		1	NO MANUAL INTEGRATION
1634	NT1004192347S.D	23C0752-06		1	1,4-Dichlorobenzene,
1712	NT1004192348S.D	SEQ-ICV4		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230419B.b\20230419B.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1750	NT1004192349S.D	SEQ-LCV4		1	NO MANUAL INTEGRATION
1828	NT1004192350S.D	SLD0302-CCV1		1	NO MANUAL INTEGRATION

Security Status Report

Date: 21-Apr-2023 14:43

NT1004192301SB.D	Data Locked	deenayd, 21-
NT1004192333S.D	Data Locked	deenayd, 21-
NT1004192334S.D	Data Locked	deenayd, 21-
NT1004192335SB.D	Data Locked	deenayd, 21-
NT1004192336S.D	Data Locked	deenayd, 21-
NT1004192337S.D	Data Locked	deenayd, 21-
NT1004192338S.D	Data Locked	deenayd, 21-
NT1004192339S.D	Data Locked	deenayd, 21-
NT1004192340S.D	Data Locked	deenayd, 21-
NT1004192341S.D	Data Locked	deenayd, 21-
NT1004192342S.D	Data Locked	deenayd, 21-
NT1004192343S.D	Data Locked	deenayd, 21-
NT1004192344S.D	Data Locked	deenayd, 21-
NT1004192345S.D	Data Locked	deenayd, 21-
NT1004192346S.D	Data Locked	deenayd, 21-
NT1004192347S.D	Data Locked	deenayd, 21-
NT1004192348S.D	Data Locked	deenayd, 21-
NT1004192349S.D	Data Locked	deenayd, 21-
NT1004192350S.D	Data Locked	deenayd, 21-

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG/WO:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0238	Instrument:	NT10
Calibration:	GC00049	Calibration Date:	03/16/2023

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLC0238-SCV1 (Solid)			Lab File ID: NT10031511S.D			Analyzed: 03/16/23 02:16		
2-Fluorophenol	7.5000		0 - 200		7.07175	-7.0718	N/A	
p-Terphenyl-d14	5.0000	0.0308	0 - 200	21.543	21.54237	0.0006	N/A	
SLC0238-ICB1 (Solid)			Lab File ID: NT10031512S.D			Analyzed: 03/16/23 02:54		
2-Fluorophenol	7.5000	91.0	27 - 120	7.072	7.07175	0.0003	N/A	
p-Terphenyl-d14	5.0000	88.4	37 - 120	21.542	21.54237	-0.0004	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG/WO:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0302	Instrument:	NT10
Calibration:	GC00049	Calibration Date:	03/16/2023

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLD0302-ICV1 (Solid)			Lab File ID: NT1004192335SB.D			Analyzed: 04/20/23 08:57		
2-Fluorophenol	1.5000	89.8	80 - 120	6.617	7.07175	-0.4548	N/A	
p-Terphenyl-d14	1.0000	78.4	80 - 120	21.142	21.54237	-0.4004	N/A	*
SLD0302-LCV1 (Solid)			Lab File ID: NT1004192336S.D			Analyzed: 04/20/23 09:35		
2-Fluorophenol	0.15000	84.2	0 - 200	6.617	7.07175	-0.4548	N/A	
p-Terphenyl-d14	0.10000	74.9	0 - 200	21.142	21.54237	-0.4004	N/A	
BLD0008-BLK2 (Solid)			Lab File ID: NT1004192337S.D			Analyzed: 04/20/23 10:13		
2-Fluorophenol	750.00	50.6	27 - 120	6.617	7.07175	-0.4548	N/A	
p-Terphenyl-d14	500.00	55.4	37 - 120	21.142	21.54237	-0.4004	N/A	
BLD0008-BS2 (Solid)			Lab File ID: NT1004192338S.D			Analyzed: 04/20/23 10:51		
2-Fluorophenol	750.00	61.3	27 - 120	6.625	7.07175	-0.4468	N/A	
p-Terphenyl-d14	500.00	59.5	37 - 120	21.134	21.54237	-0.4084	N/A	
BLD0008-BSD2 (Solid)			Lab File ID: NT1004192339S.D			Analyzed: 04/20/23 11:29		
2-Fluorophenol	750.00	62.1	27 - 120	6.624	7.07175	-0.4478	N/A	
p-Terphenyl-d14	500.00	62.7	37 - 120	21.134	21.54237	-0.4084	N/A	
BLD0008-SRM2 (Solid)			Lab File ID: NT1004192340S.D			Analyzed: 04/20/23 12:07		
2-Fluorophenol	7500.0	59.7	27 - 120	6.624	7.07175	-0.4478	N/A	
p-Terphenyl-d14	5000.0	60.0	37 - 120	21.134	21.54237	-0.4084	N/A	
23C0752-01 (Solid)			Lab File ID: NT1004192341S.D			Analyzed: 04/20/23 12:45		
2-Fluorophenol	747.16	53.7	27 - 120	6.625	7.07175	-0.4468	N/A	
p-Terphenyl-d14	498.11	59.1	37 - 120	21.142	21.54237	-0.4004	N/A	
23C0752-02 (Solid)			Lab File ID: NT1004192342S.D			Analyzed: 04/20/23 13:24		
2-Fluorophenol	748.40	61.7	27 - 120	6.625	7.07175	-0.4468	N/A	
p-Terphenyl-d14	498.93	69.1	37 - 120	21.142	21.54237	-0.4004	N/A	
23C0752-03 (Solid)			Lab File ID: NT1004192343S.D			Analyzed: 04/20/23 14:02		
2-Fluorophenol	749.22	62.6	27 - 120	6.625	7.07175	-0.4468	N/A	
p-Terphenyl-d14	499.48	65.7	37 - 120	21.142	21.54237	-0.4004	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG/WO:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0302	Instrument:	NT10
Calibration:	GC00049	Calibration Date:	03/16/2023

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23C0752-04 (Solid)			Lab File ID: NT1004192344S.D				Analyzed: 04/20/23 14:40	
2-Fluorophenol	749.67	57.1	27 - 120	6.625	7.07175	-0.4468	N/A	
p-Terphenyl-d14	499.78	64.4	37 - 120	21.142	21.54237	-0.4004	N/A	
BLD0008-MS2 (Solid)			Lab File ID: NT1004192345S.D				Analyzed: 04/20/23 15:18	
2-Fluorophenol	750.07	63.0	27 - 120	6.632	7.07175	-0.4398	N/A	
p-Terphenyl-d14	500.05	68.1	37 - 120	21.142	21.54237	-0.4004	N/A	
BLD0008-MSD2 (Solid)			Lab File ID: NT1004192346S.D				Analyzed: 04/20/23 15:56	
2-Fluorophenol	750.07	62.6	27 - 120	6.625	7.07175	-0.4468	N/A	
p-Terphenyl-d14	500.05	66.6	37 - 120	21.149	21.54237	-0.3934	N/A	
23C0752-06 (Solid)			Lab File ID: NT1004192347S.D				Analyzed: 04/20/23 16:34	
2-Fluorophenol	749.09	44.5	27 - 120	6.625	7.07175	-0.4468	N/A	
p-Terphenyl-d14	499.40	60.6	37 - 120	21.149	21.54237	-0.3934	N/A	
SLD0302-CCV1 (Solid)			Lab File ID: NT1004192350S.D				Analyzed: 04/20/23 18:28	
2-Fluorophenol	1.5000	89.8	50 - 150	6.617	7.07175	-0.4548	N/A	
p-Terphenyl-d14	1.0000	75.8	50 - 150	21.142	21.54237	-0.4004	N/A	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLC0238
Instrument: NT10
Calibration: GC00049

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (SLC0238-SCV1)		(Solid)		Lab File ID: NT10031511S.D				Analyzed: 03/16/23 02:16	
1,4-Dichlorobenzene-d4	166866	9.306	188081	9.298	89	50 - 200	0.008	+/-0.50	
Naphthalene-d8	612104	11.775	674549	11.774	91	50 - 200	0.001	+/-0.50	
Acenaphthene-d10	302524	15.388	328275	15.387	92	50 - 200	0.001	+/-0.50	
Phenanthrene-d10	553619	18.425	597140	18.424	93	50 - 200	0.001	+/-0.50	
Chrysene-d12	465428	23.455	466503	23.454	100	50 - 200	0.001	+/-0.50	
Perylene-d12	532593	26.188	518203	26.187	103	50 - 200	0.001	+/-0.50	
Initial Cal Blank (SLC0238-ICB1)		(Solid)		Lab File ID: NT10031512S.D				Analyzed: 03/16/23 02:54	
1,4-Dichlorobenzene-d4	189475	9.306	188081	9.298	101	50 - 200	0.008	+/-0.50	
Naphthalene-d8	676186	11.774	674549	11.774	100	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	328650	15.379	328275	15.387	100	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	617605	18.424	597140	18.424	103	50 - 200	0.000	+/-0.50	
Chrysene-d12	473513	23.454	466503	23.454	102	50 - 200	0.000	+/-0.50	
Perylene-d12	534734	26.187	518203	26.187	103	50 - 200	0.000	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0302	Instrument:	NT10
		Calibration:	GC00049

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SLD0302-ICV1)		(Solid)	Lab File ID: NT1004192335SB.D				Analyzed: 04/20/23 08:57		
1,4-Dichlorobenzene-d4	128281	8.835	128281	8.835	100	50 - 200	0.000	+/-0.50	
Naphthalene-d8	458707	11.312	458707	11.312	100	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	243296	14.918	243296	14.918	100	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	433853	17.947	433853	17.947	100	50 - 200	0.000	+/-0.50	
Chrysene-d12	435413	23.047	435413	23.047	100	50 - 200	0.000	+/-0.50	
Perylene-d12	490854	25.594	490854	25.594	100	50 - 200	0.000	+/-0.50	
Low Cal Check (SLD0302-LCV1)		(Solid)	Lab File ID: NT1004192336S.D				Analyzed: 04/20/23 09:35		
1,4-Dichlorobenzene-d4	145568	8.835	128281	8.835	113	50 - 200	0.000	+/-0.50	
Naphthalene-d8	512655	11.312	458707	11.312	112	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	267732	14.918	243296	14.918	110	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	453656	17.954	433853	17.947	105	50 - 200	0.007	+/-0.50	
Chrysene-d12	459961	23.047	435413	23.047	106	50 - 200	0.000	+/-0.50	
Perylene-d12	504020	25.586	490854	25.594	103	50 - 200	-0.008	+/-0.50	
Blank (BLD0008-BLK2)		(Solid)	Lab File ID: NT1004192337S.D				Analyzed: 04/20/23 10:13		
1,4-Dichlorobenzene-d4	139330	8.827	128281	8.835	109	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	504066	11.312	458707	11.312	110	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	266360	14.918	243296	14.918	109	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	457399	17.954	433853	17.947	105	50 - 200	0.007	+/-0.50	
Chrysene-d12	460552	23.047	435413	23.047	106	50 - 200	0.000	+/-0.50	
Perylene-d12	502276	25.594	490854	25.594	102	50 - 200	0.000	+/-0.50	
LCS (BLD0008-BS2)		(Solid)	Lab File ID: NT1004192338S.D				Analyzed: 04/20/23 10:51		
1,4-Dichlorobenzene-d4	139775	8.835	128281	8.835	109	50 - 200	0.000	+/-0.50	
Naphthalene-d8	521339	11.312	458707	11.312	114	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	287526	14.918	243296	14.918	118	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	508983	17.947	433853	17.947	117	50 - 200	0.000	+/-0.50	
Chrysene-d12	502516	23.047	435413	23.047	115	50 - 200	0.000	+/-0.50	
Perylene-d12	566119	25.594	490854	25.594	115	50 - 200	0.000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLD0302

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: NT10
Calibration: GC00049

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS Dup (BLD0008-BSD2)		(Solid)	Lab File ID: NT1004192339S.D					Analyzed: 04/20/23 11:29	
1,4-Dichlorobenzene-d4	129572	8.835	128281	8.835	101	50 - 200	0.000	+/-0.50	
Naphthalene-d8	477337	11.312	458707	11.312	104	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	263111	14.917	243296	14.918	108	50 - 200	-0.001	+/-0.50	
Phenanthrene-d10	475106	17.946	433853	17.947	110	50 - 200	-0.001	+/-0.50	
Chrysene-d12	466863	23.039	435413	23.047	107	50 - 200	-0.008	+/-0.50	
Perylene-d12	513987	25.586	490854	25.594	105	50 - 200	-0.008	+/-0.50	
Reference (BLD0008-SRM2)		(Solid)	Lab File ID: NT1004192340S.D					Analyzed: 04/20/23 12:07	
1,4-Dichlorobenzene-d4	147485	8.827	128281	8.835	115	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	540831	11.312	458707	11.312	118	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	292978	14.917	243296	14.918	120	50 - 200	-0.001	+/-0.50	
Phenanthrene-d10	531375	17.946	433853	17.947	122	50 - 200	-0.001	+/-0.50	
Chrysene-d12	511210	23.046	435413	23.047	117	50 - 200	-0.001	+/-0.50	
Perylene-d12	578652	25.586	490854	25.594	118	50 - 200	-0.008	+/-0.50	
LDW23-SS1026 (23C0752-01)		(Solid)	Lab File ID: NT1004192341S.D					Analyzed: 04/20/23 12:45	
1,4-Dichlorobenzene-d4	152285	8.835	128281	8.835	119	50 - 200	0.000	+/-0.50	
Naphthalene-d8	562371	11.312	458707	11.312	123	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	308902	14.918	243296	14.918	127	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	580315	17.954	433853	17.947	134	50 - 200	0.007	+/-0.50	
Chrysene-d12	621314	23.047	435413	23.047	143	50 - 200	0.000	+/-0.50	
Perylene-d12	725654	25.602	490854	25.594	148	50 - 200	0.008	+/-0.50	
LDW23-SS1125 (23C0752-02)		(Solid)	Lab File ID: NT1004192342S.D					Analyzed: 04/20/23 13:24	
1,4-Dichlorobenzene-d4	175994	8.835	128281	8.835	137	50 - 200	0.000	+/-0.50	
Naphthalene-d8	635276	11.312	458707	11.312	138	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	333579	14.918	243296	14.918	137	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	657160	17.954	433853	17.947	151	50 - 200	0.007	+/-0.50	
Chrysene-d12	668084	23.055	435413	23.047	153	50 - 200	0.008	+/-0.50	
Perylene-d12	773194	25.609	490854	25.594	158	50 - 200	0.015	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLD0302
SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: NT10
Calibration: GC00049

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW23-SS1132 (23C0752-03)		(Solid)	Lab File ID: NT1004192343S.D				Analyzed: 04/20/23 14:02		
1,4-Dichlorobenzene-d4	159410	8.827	128281	8.835	124	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	571882	11.312	458707	11.312	125	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	297604	14.918	243296	14.918	122	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	568604	17.946	433853	17.947	131	50 - 200	-0.001	+/-0.50	
Chrysene-d12	578319	23.047	435413	23.047	133	50 - 200	0.000	+/-0.50	
Perylene-d12	691315	25.602	490854	25.594	141	50 - 200	0.008	+/-0.50	
LDW23-SS1810 (23C0752-04)		(Solid)	Lab File ID: NT1004192344S.D				Analyzed: 04/20/23 14:40		
1,4-Dichlorobenzene-d4	178692	8.835	128281	8.835	139	50 - 200	0.000	+/-0.50	
Naphthalene-d8	650074	11.312	458707	11.312	142	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	337700	14.917	243296	14.918	139	50 - 200	-0.001	+/-0.50	
Phenanthrene-d10	645163	17.954	433853	17.947	149	50 - 200	0.007	+/-0.50	
Chrysene-d12	662245	23.054	435413	23.047	152	50 - 200	0.007	+/-0.50	
Perylene-d12	770374	25.609	490854	25.594	157	50 - 200	0.015	+/-0.50	
Matrix Spike (BLD0008-MS2)		(Solid)	Lab File ID: NT1004192345S.D				Analyzed: 04/20/23 15:18		
1,4-Dichlorobenzene-d4	164953	8.835	128281	8.835	129	50 - 200	0.000	+/-0.50	
Naphthalene-d8	605710	11.311	458707	11.312	132	50 - 200	-0.001	+/-0.50	
Acenaphthene-d10	318528	14.925	243296	14.918	131	50 - 200	0.007	+/-0.50	
Phenanthrene-d10	619830	17.954	433853	17.947	143	50 - 200	0.007	+/-0.50	
Chrysene-d12	636207	23.054	435413	23.047	146	50 - 200	0.007	+/-0.50	
Perylene-d12	737823	25.609	490854	25.594	150	50 - 200	0.015	+/-0.50	
Matrix Spike Dup (BLD0008-MSD2)		(Solid)	Lab File ID: NT1004192346S.D				Analyzed: 04/20/23 15:56		
1,4-Dichlorobenzene-d4	137636	8.827	128281	8.835	107	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	497931	11.312	458707	11.312	109	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	265384	14.917	243296	14.918	109	50 - 200	-0.001	+/-0.50	
Phenanthrene-d10	515234	17.954	433853	17.947	119	50 - 200	0.007	+/-0.50	
Chrysene-d12	529829	23.054	435413	23.047	122	50 - 200	0.007	+/-0.50	
Perylene-d12	626632	25.609	490854	25.594	128	50 - 200	0.015	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0302	Instrument:	NT10
		Calibration:	GC00049

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW23-SS1809 (23C0752-06)		(Solid)		Lab File ID: NT1004192347S.D				Analyzed: 04/20/23 16:34	
1,4-Dichlorobenzene-d4	172260	8.835	128281	8.835	134	50 - 200	0.000	+/-0.50	
Naphthalene-d8	626211	11.312	458707	11.312	137	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	325138	14.917	243296	14.918	134	50 - 200	-0.001	+/-0.50	
Phenanthrene-d10	633775	17.962	433853	17.947	146	50 - 200	0.015	+/-0.50	
Chrysene-d12	674106	23.062	435413	23.047	155	50 - 200	0.015	+/-0.50	
Perylene-d12	771564	25.617	490854	25.594	157	50 - 200	0.023	+/-0.50	
Calibration Check (SLD0302-CCV1)		(Solid)		Lab File ID: NT1004192350S.D				Analyzed: 04/20/23 18:28	
1,4-Dichlorobenzene-d4	141041	8.835	128281	8.835	110	50 - 200	0.000	+/-0.50	
Naphthalene-d8	498538	11.312	458707	11.312	109	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	265212	14.918	243296	14.918	109	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	475152	17.954	433853	17.947	110	50 - 200	0.007	+/-0.50	
Chrysene-d12	480092	23.047	435413	23.047	110	50 - 200	0.000	+/-0.50	
Perylene-d12	565207	25.594	490854	25.594	115	50 - 200	0.000	+/-0.50	

HOLDING TIME SUMMARY

Analysis: EPA 8270E-SIM

Laboratory: Analytical Resources, LLC SDG: 23C0752

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

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1026 23C0752-01	03/30/23 10:37	03/30/23 16:25	04/03/23 11:31	4	14	04/20/23 12:45	17	40	
LDW23-SS1125 23C0752-02	03/30/23 11:10	03/30/23 16:25	04/03/23 11:31	4	14	04/20/23 13:24	17	40	
LDW23-SS1132 23C0752-03	03/30/23 11:30	03/30/23 16:25	04/03/23 11:31	4	14	04/20/23 14:02	17	40	
LDW23-SS1810 23C0752-04	03/30/23 10:36	03/30/23 16:25	04/03/23 11:31	4	14	04/20/23 14:40	17	40	
LDW23-SS1809 23C0752-06	03/30/23 14:30	03/30/23 16:25	04/03/23 11:31	3	14	04/20/23 16:34	17	40	
Matrix Spike BLD0008-MS2	03/30/23 10:36	03/30/23 16:25	04/03/23 11:31	4	14	04/20/23 15:18	17	40	
Matrix Spike Dup BLD0008-MSD2	03/30/23 10:36	03/30/23 16:25	04/03/23 11:31	4	14	04/20/23 15:56	17	40	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: NT10

Analyte	MDL	RL	Units
1,4-Dichlorobenzene	0.6	5.0	ug/kg
1,2-Dichlorobenzene	0.7	5.0	ug/kg
Benzyl Alcohol	2.5	20.0	ug/kg
Benzoic acid	13.4	100	ug/kg
2,4-Dimethylphenol	2.2	20.0	ug/kg
1,2,4-Trichlorobenzene	2.7	5.0	ug/kg
N-Nitrosodiphenylamine	1.3	5.0	ug/kg
Pentachlorophenol	2.1	20.0	ug/kg

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: NA

Chemical: Tributyl Phosphate

Manufacturer: Chemservice

Product #: O-916

Lot #: 59-57A

Purity: 99%

Analyst: VB

Element: B000954

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001873

Printed: 9/23/2013 11:47:03AM

Description:	SVOC 4,4 DDT	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	23-Sep-13
Solvent:	N/A	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 11:46 by JZ
Vendor:	Chem Service	Lot #:	198-128A
Vendor Catalog #:			

Comments

Neat, Purity @ 99.2%. (ARI#: 790A)

Analyte	CAS Number	Concentration	Units
4,4'-DDT	50-29-3	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: 4,4' DDT

Manufacturer: Chem Service

Product #: _____

Lot #: 198-128A

Purity: 99.2%

Analyst: AB

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001875

Printed: 9/23/2013 12:13:55PM

Description:	SVOC alpha-Terpineol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	N/A	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 12:13 by JZ
Vendor:	ACROS Organics	Lot #:	AD16481201
Vendor Catalog #:			

Comments

Neat, Purity @ 98%. (ARI#: I1582A)

Analyte	CAS Number	Concentration	Units
alpha-Terpineol	98-55-5	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: alpha-Terpineol

Manufacturer: Acros Organics

Product #: _____

Lot #: A0648170 1

Purity: 98%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001885

Printed: 9/23/2013 3:45:57PM

Description:	SVOA Dibutyl Phenyl phosphate	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 15:45 by JZ
Vendor:	Monsanto	Lot #:	N/A
Vendor Catalog #:			

Comments

Neat, Purity @ 98.9%.

Analyte	CAS Number	Concentration	Units
Dibutyl Phenyl Phosphate	2528-36-1	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Dibutyl Phenyl Phosphate

Manufacturer: Monsanto

Product #: N/A

Lot #: N/A

Purity: 98.9%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001886

Printed: 9/23/2013 3:59:35PM

Description:	SVOC Triphenyl Phosphate	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 15:59 by JZ
Vendor:	Aldrich	Lot #:	04902CM
Vendor Catalog #:			

Comments

Neat, Purity @ 99%.

Analyte	CAS Number	Concentration	Units
Triphenyl Phosphate	115-86-6	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Triphenyl Phosphate

Manufacturer: Aldrich

Product #: _____

Lot #: 04907CM

Purity: 99%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001887

Printed: 9/23/2013 4:18:55PM

Description:	SVOC Butylated Hydroxytoluene	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 16:18 by JZ
Vendor:	SIGMA	Lot #:	39F-0197
Vendor Catalog #:			

Comments

neat,Purity @ 99.9%.

Analyte	CAS Number	Concentration	Units
Butylated Hydroxytoluene	128-37-0	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Butylated Hydroxytoluene

Manufacturer: Sigma

Product #: _____

Lot #: 39F-0197

Purity: 99.8%

Analyst: AR

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001890

Printed: 9/23/2013 5:02:53PM

Description:	SVOC Butyl Diphenyl Phosphate	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 17:02 by JZ
Vendor:	Monsanto	Lot #:	N/A
Vendor Catalog #:			

Comments

Neat, Purity @ 98%.

Analyte	CAS Number	Concentration	Units
Butyl Diphenyl Phosphate	2752-95-6	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Butyl Diphenyl Phosphate

Manufacturer: Monsanto

Product #: NA

Lot #: NA

Purity: 98%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001941

Printed: 9/25/2013 1:45:31PM

Description:	SVOC 2,4-Dinitrophenol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	25-Sep-13
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 13:45 by JZ
Vendor:	SIGMA	Lot #:	65H5021
Vendor Catalog #:			

Comments

Neat, Purity @ 90-95%. (ARI#: 0466)

Analyte	CAS Number	Concentration	Units
2,4-Dinitrophenol	51-28-5	1000000	ug/mL

B001941
SVOA 2,4-Dinitrophenol
Expires 12/31/2029
Prepared By Jianqing Zhou 9/25/2013

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: 2,4-Dinitrophenol

Manufacturer: Sigma

Product #: _____

Lot #: bEH 502 1

Purity: 90 ~ 94%

Analyst: _____

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001945

Printed: 9/25/2013 3:23:22PM

Description:	SVOC Benzoic Acid	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 15:23 by JZ
Vendor:	ACROS Organics	Lot #:	A0224339
Vendor Catalog #:			

Comments

Neat, Purity @ 98%.

Analyte	CAS Number	Concentration	Units
Benzoic acid	65-85-0	1000000	ug/mL

B001945
SVOC Benzoic Acid
Expires 12/31/2029
Prepared By Jianqing Zhou 12/31/2012

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Benzoic Acid

Manufacturer: Acros Organics

Product #: _____

Lot #: A0214339

Purity: 98%

Analyst: _____

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001948

Printed: 9/25/2013 3:37:51PM

Description:	SVOC 4,6-Dinitro-2-Methylphenol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	25-Sep-13
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 15:37 by JZ
Vendor:	Chem Service	Lot #:	179-31A
Vendor Catalog #:			

Comments

Neat, Purity @ 99%. (ARI#: 009A)

Analyte	CAS Number	Concentration	Units
4,6-Dinitro-2-methylphenol	534-52-1	1000000	ug/mL

B001948
SVOA 4,6-Dinitro-2-Methylphenol
Expires 12/31/2029
Prepared By Jianqing Zhou 9/25/2013

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: 4,6-Dinitro-2-Methylphenol

Manufacturer: Chem Service

Product #: _____

Lot #: 179-31A

Purity: 99%

Analyst: KB

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B002054

Printed: 10/4/2013 6:32:21PM

Description:	SVOA 1-Methylnaphthalene	Expires:	02-Apr-14
Standard Type:	Analyte Spike	Prepared:	13-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	04-Oct-13 18:32 by JZ
Vendor:	Chem Service	Lot #:	62-5B
Vendor Catalog #:			

Comments

Neat, Purity @ 99%

Analyte	CAS Number	Concentration	Units
1-Methylnaphthalene	90-12-0	1000000	ug/mL

B002054
SVOA 1-Methylnaphthalene
Solvent / Lot: NA
Prep: 12/13/2012 by JZ
Exp: 12/31/2029
Location:

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: 1-Methyl naphthalene

Manufacturer: Chem Service

Product #: 0787

Lot #: 67-53

Purity: 99%

Analyst: AZ

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B002135

Printed: 10/15/2013 12:07:39PM

Description:	SVOA Benzidine	Expires:	31-Dec-29
Standard Type:	Analyte Spike	Prepared:	15-Oct-13
Solvent:	N/A	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	15-Oct-13 12:07 by JZ
Vendor:	SIGMA	Lot #:	18C0024
Vendor Catalog #:			

Comments

Purity @ 95%. ARI#: 0467.

Analyte	CAS Number	Concentration	Units
Benzidine	92-87-5	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Benzidine

Manufacturer: Sigma

Product #: B-3503

Lot #: 18C0024

Purity: 98%

Analyst: [signature]

Certificate of Analysis

Product Name:	1,2,4,5-Tetrachlorobenzene
Product Description:	98%
Product Brand:	Sigma-Aldrich
Product Number:	131857
Molecular Weight:	215.89
CAS Number:	95-94-3

TEST	SPECIFICATION	LOT 19309JR RESULTS
APPEARANCE	WHITE POWDER, CHIPS OR CRYSTALS	WHITE CHIPS
INFRARED SPECTRUM	CONFORMS TO STRUCTURE.	CONFORMS TO STRUCTURE AND STANDARD AS
** **		ILLUSTRATED ON PAGE 1011C OF EDITION I,
** **		VOLUME 1 OF "THE ALDRICH LIBRARY OF FT-IR
** **		SPECTRA".
GAS LIQUID	97.5% (MINIMUM)	99.9 %
QUALITY CONTROL		JULY 1997

Barbara Rajzer, Supervisor
Quality Control
Milwaukee, Wisconsin USA

F009172
SVOC 1,2,4,5-Tetrachlorobenzene
Expires 12/31/2079
Prepared By Joshua Rains 10/6/2017

H000691

Data File: \\target\share\chem2\fid4a.i\20230317.b\423C1703.D

Page 1

Date : 17-MAR-2023 10:46

Client ID:

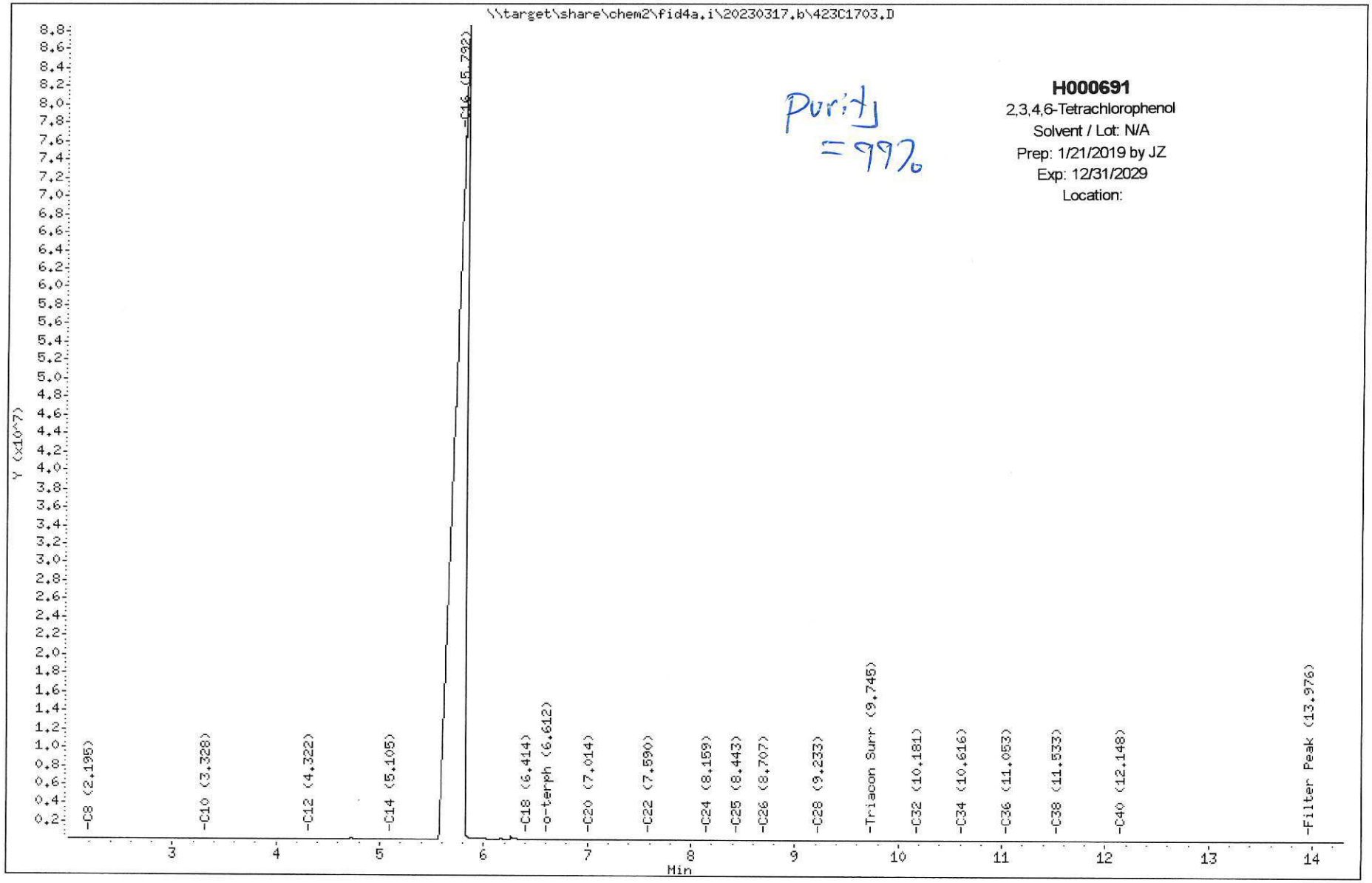
Instrument: fid4a.i

Sample Info: K007226

Operator: AA

Column phase: RTX-1

Column diameter: 0.25



Purity = 99%

H000691
2,3,4,6-Tetrachlorophenol
Solvent / Lot: N/A
Prep: 1/21/2019 by JZ
Exp: 12/31/2029
Location:

ARI Labs, Inc.

Data file : \\target\share\chem2\fid4a.i\20230317.b\423C1703.D
Lab Smp Id: K007226
Inj Date : 17-MAR-2023 10:46
Operator : AA Inst ID: fid4a.i
Smp Info : K007226
Misc Info :
Comment   :
Method   : \\target\share\chem2\fid4a.i\20230317.b\FID4TPH.m
Meth Date : 17-Mar-2023 16:58 alfonso Quant Type: AREA%
Cal Date : 18-AUG-2022 11:51 Cal File: 422H1803.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: tph.sub
Target Version: 4.14
Processing Host: ALFONSO-201901

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.043	81395	55677	0.684	0.012	1 Toluene
2.074	68503	39991	0.584	0.010	
2.104	85451	37158	0.435	0.012	
2.146	59381	25207	0.424	0.008	
2.181	11414	22862	2.003	0.001	
2.195	34939	23199	0.664	0.005	2 C8
2.218	8679	21808	2.513	0.001	
2.224	21070	21832	1.036	0.003	
2.243	45086	20191	0.448	0.006	
2.286	3130	15677	5.009	0.000	
2.291	12615	15880	1.259	0.001	
2.313	20979	15888	0.757	0.003	
2.333	7621	15373	2.017	0.001	
2.348	31874	17112	0.537	0.004	
2.373	4619	13267	2.872	0.000	
2.380	12003	13446	1.120	0.001	
2.393	10327	13347	1.292	0.001	
2.408	9963	12697	1.274	0.001	
2.446	24366	11882	0.488	0.003	
2.498	24898	10214	0.410	0.003	
2.557	1592	6395	4.017	0.000	
2.570	4427	6384	1.442	0.000	
2.583	4275	6215	1.454	0.000	
2.595	1208	6068	5.024	0.000	
2.602	3076	6230	2.025	0.000	
2.607	1560	6270	4.019	0.000	
2.631	17195	8933	0.520	0.002	
2.654	17386	7637	0.439	0.002	
2.703	4531	5468	1.207	0.000	
2.717	9156	5741	0.627	0.001	
2.740	3955	5045	1.275	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.768	1029	4134	4.017	0.000	
2.771	830	4189	5.050	0.000	
2.778	1924	4438	2.307	0.000	
2.784	5498	4564	0.830	0.000	
2.846	25970	8400	0.323	0.003	
2.880	939	3165	3.370	0.000	
2.884	1885	3183	1.688	0.000	
2.901	4805	3504	0.729	0.000	
2.938	581	1990	3.423	0.000	
2.944	1450	2016	1.390	0.000	
2.955	449	1816	4.043	0.000	
2.967	1234	2009	1.629	0.000	
2.982	712	2087	2.931	0.000	
2.988	1000	2338	2.337	0.000	
3.001	3475	3541	1.019	0.000	
3.018	3528	3705	1.050	0.000	
3.033	983	2521	2.564	0.000	
3.038	1297	2686	2.070	0.000	
3.044	2547	2541	0.997	0.000	
3.069	389	1330	3.418	0.000	
3.078	728	1545	2.123	0.000	
3.085	1244	1637	1.316	0.000	
3.098	1115	1624	1.457	0.000	
3.108	926	1475	1.593	0.000	
3.119	239	1202	5.036	0.000	
3.125	540	1251	2.315	0.000	
3.133	409	1219	2.978	0.000	
3.144	2600	1886	0.725	0.000	
3.165	620	1604	2.588	0.000	
3.173	554	1647	2.972	0.000	
3.192	2423	2273	0.938	0.000	
3.197	582	2418	4.158	0.000	
3.204	1161	2723	2.346	0.000	
3.208	825	2777	3.364	0.000	
3.228	4472	3391	0.758	0.000	
3.246	1586	2676	1.688	0.000	
3.279	1194	2070	1.734	0.000	
3.293	854	1951	2.285	0.000	
3.298	595	2029	3.408	0.000	
3.315	2640	2597	0.984	0.000	
3.320	1015	2542	2.504	0.000	
3.328	1549	2593	1.674	0.000	3 C10
3.338	1314	2533	1.928	0.000	
3.350	523	2159	4.130	0.000	
3.358	1776	2105	1.185	0.000	
3.371	356	1797	5.043	0.000	
3.378	914	1880	2.057	0.000	
3.383	380	1927	5.068	0.000	
3.387	595	2023	3.399	0.000	
3.395	1390	2270	1.633	0.000	
3.405	1490	1994	1.338	0.000	
3.423	690	1601	2.321	0.000	
3.435	821	1554	1.894	0.000	
3.441	387	1583	4.087	0.000	
3.444	401	1625	4.051	0.000	
3.448	403	1636	4.060	0.000	
3.455	1216	1700	1.398	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.478	235	1185	5.047	0.000	
3.482	412	1229	2.986	0.000	
3.488	695	1177	1.694	0.000	
3.501	239	969	4.063	0.000	
3.509	914	1149	1.258	0.000	
3.520	1078	1069	0.992	0.000	
3.540	301	927	3.079	0.000	
3.556	406	849	2.089	0.000	
3.567	370	873	2.359	0.000	
3.572	178	939	5.270	0.000	
3.578	591	1171	1.981	0.000	
3.591	869	1353	1.556	0.000	
3.596	741	1352	1.826	0.000	
3.606	471	1401	2.976	0.000	
3.613	548	1411	2.577	0.000	
3.618	433	1521	3.511	0.000	
3.625	710	1635	2.303	0.000	
3.630	910	1667	1.832	0.000	
3.652	661	1562	2.362	0.000	
3.670	462	1214	2.627	0.000	
3.686	1036	1453	1.403	0.000	
3.690	829	1374	1.658	0.000	
3.702	531	1191	2.241	0.000	
3.712	452	1355	3.001	0.000	
3.716	820	1423	1.736	0.000	
3.736	2685	2093	0.780	0.000	
3.752	689	2030	2.946	0.000	
3.760	4109	2349	0.572	0.000	
3.805	3183	2036	0.640	0.000	
3.823	496	1686	3.401	0.000	
3.835	1641	2314	1.410	0.000	
3.859	9243	4616	0.499	0.001	
3.897	851	1745	2.051	0.000	
3.904	503	1721	3.419	0.000	
3.927	3866	3293	0.852	0.000	
3.941	5520	3558	0.645	0.000	
3.980	573	1715	2.991	0.000	
3.992	1027	1794	1.748	0.000	
3.995	1494	1860	1.245	0.000	
4.010	887	1639	1.847	0.000	
4.021	663	1724	2.602	0.000	
4.026	1380	1776	1.287	0.000	
4.045	306	1546	5.059	0.000	
4.053	1001	1758	1.757	0.000	
4.061	1137	1804	1.586	0.000	
4.072	779	1773	2.275	0.000	
4.080	989	1896	1.917	0.000	
4.087	561	1905	3.396	0.000	
4.098	1956	2156	1.103	0.000	
4.106	1168	2044	1.750	0.000	
4.127	1049	1627	1.551	0.000	
4.142	587	1545	2.633	0.000	
4.148	1155	1572	1.361	0.000	
4.173	3682	2398	0.651	0.000	
4.189	1023	1738	1.700	0.000	
4.204	549	1627	2.961	0.000	
4.213	628	1658	2.641	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.221	1039	1830	1.761	0.000	
4.227	447	1814	4.058	0.000	
4.248	2703	2638	0.976	0.000	
4.256	1387	2945	2.123	0.000	
4.260	743	2988	4.022	0.000	
4.265	912	3081	3.378	0.000	
4.268	779	3140	4.031	0.000	
4.275	1736	3217	1.853	0.000	
4.289	2688	3495	1.300	0.000	
4.295	3466	3448	0.995	0.000	
4.322	1054	2680	2.543	0.000	4 C12
4.330	1686	2627	1.558	0.000	
4.358	1066	1974	1.852	0.000	
4.378	434	1758	4.054	0.000	
4.384	1324	1879	1.419	0.000	
4.403	860	1608	1.869	0.000	
4.414	457	1567	3.431	0.000	
4.421	1117	1675	1.499	0.000	
4.433	910	1538	1.690	0.000	
4.439	865	1534	1.774	0.000	
4.449	764	1302	1.705	0.000	
4.471	433	1123	2.593	0.000	
4.476	734	1135	1.546	0.000	
4.490	385	1005	2.610	0.000	
4.498	555	1186	2.137	0.000	
4.502	695	1166	1.677	0.000	
4.518	587	949	1.618	0.000	
4.526	316	925	2.924	0.000	
4.533	560	989	1.765	0.000	
4.543	469	1001	2.135	0.000	
4.548	222	916	4.130	0.000	
4.553	188	980	5.207	0.000	
4.558	255	1038	4.076	0.000	
4.568	652	1157	1.775	0.000	
4.573	338	1151	3.409	0.000	
4.580	487	1283	2.636	0.000	
4.596	3801	1950	0.513	0.000	
4.631	531	1429	2.692	0.000	
4.663	4548	3737	0.822	0.000	
4.667	2815	3822	1.358	0.000	
4.679	2199	3760	1.710	0.000	
4.688	1068	3585	3.356	0.000	
4.694	2166	3742	1.727	0.000	
4.723	372603	172476	0.463	0.055	
4.894	47034	21828	0.464	0.006	
4.956	80510	28154	0.350	0.011	
4.999	54273	16950	0.312	0.008	
5.068	1137	5713	5.027	0.000	
5.072	8415	5792	0.688	0.001	
5.105	4203	4316	1.027	0.000	5 C14
5.146	660	2685	4.070	0.000	
5.153	2524	2649	1.050	0.000	
5.170	1076	2437	2.265	0.000	
5.174	2371	2438	1.028	0.000	
5.201	1013	2011	1.986	0.000	
5.210	2064	2332	1.130	0.000	
5.224	1083	2304	2.127	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.228	2027	2354	1.162	0.000	
5.276	4673	2682	0.574	0.000	
5.322	195	844	4.328	0.000	
5.331	977	1203	1.231	0.000	
5.356	490	993	2.027	0.000	
5.361	814	1044	1.283	0.000	
5.382	115	387	3.351	0.000	
5.399	619	960	1.551	0.000	
5.406	402	1035	2.576	0.000	
5.410	378	1122	2.968	0.000	
5.423	1663	1555	0.935	0.000	
5.452	5951	5020	0.844	0.000	
5.501	290	797	2.753	0.000	
5.523	2317	2472	1.067	0.000	
5.538	5946	6823	1.147	0.000	
5.792	501855376	76456669	0.152	74.449	6 C16
5.807	79757019	82319946	1.032	11.775	
5.823	77929961	88539160	1.136	11.505	
5.962	75333	84828	1.126	0.011	
5.986	474748	124326	0.262	0.070	
6.070	17103	57180	3.343	0.002	
6.074	120761	57565	0.477	0.017	
6.113	90233	47140	0.522	0.013	
6.165	407438	218439	0.536	0.060	
6.263	944101	374166	0.396	0.139	
6.414	114839	39498	0.344	0.016	7 C18
6.464	53190	31177	0.586	0.007	
6.523	31509	25870	0.821	0.004	
6.551	4785	23963	5.008	0.000	
6.559	51194	25409	0.496	0.007	
6.590	21354	21666	1.015	0.003	
6.612	35061	21127	0.603	0.005	$ 8 o-terph
6.638	17712	19934	1.125	0.002	
6.672	22159	19651	0.887	0.003	
6.683	26846	19268	0.718	0.003	
6.708	5413	18142	3.351	0.000	
6.713	24941	18247	0.732	0.003	
6.747	50657	18478	0.365	0.007	
6.795	23973	17444	0.728	0.003	
6.814	28457	17895	0.629	0.004	
6.837	10746	15445	1.437	0.001	
6.871	29974	21406	0.714	0.004	
6.874	4287	21471	5.009	0.000	
6.882	20520	21675	1.056	0.003	
6.944	32864	17445	0.531	0.004	
6.978	9138	15347	1.679	0.001	
7.014	4130	13830	3.348	0.000	9 C20
7.025	12567	14083	1.121	0.001	
7.038	4952	14274	2.882	0.000	
7.044	6508	14578	2.240	0.000	
7.050	25344	14736	0.581	0.003	
7.099	5531	12365	2.236	0.000	
7.108	16440	12371	0.752	0.002	
7.129	9415	11275	1.198	0.001	
7.175	3589	10327	2.878	0.000	
7.182	7285	10474	1.438	0.001	
7.212	11252	10002	0.889	0.001	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.227	5193	9506	1.830	0.000	
7.237	5172	9476	1.832	0.000	
7.247	4652	9357	2.011	0.000	
7.254	3258	9369	2.875	0.000	
7.259	7003	9455	1.350	0.001	
7.272	5540	9252	1.670	0.000	
7.283	4511	9087	2.014	0.000	
7.296	5828	9031	1.550	0.000	
7.308	4850	8866	1.828	0.000	
7.318	3111	9014	2.897	0.000	
7.324	3191	9168	2.873	0.000	
7.328	2775	9325	3.360	0.000	
7.339	6190	9713	1.569	0.000	
7.344	2920	9761	3.343	0.000	
7.350	17091	9874	0.578	0.002	
7.379	7217	8616	1.194	0.001	
7.395	5430	8408	1.548	0.000	
7.404	2492	8342	3.348	0.000	
7.409	1666	8354	5.014	0.000	
7.415	2955	8500	2.877	0.000	
7.423	3887	8782	2.259	0.000	
7.465	28160	14253	0.506	0.004	
7.471	6466	14499	2.242	0.000	
7.480	6649	15111	2.273	0.000	
7.484	26595	15197	0.571	0.003	
7.514	13964	13621	0.975	0.002	
7.539	8118	12614	1.554	0.001	
7.553	10540	12495	1.185	0.001	
7.584	2820	11307	4.010	0.000	
7.590	4522	11429	2.527	0.000	10 C22
7.620	16634	10435	0.627	0.002	
7.653	6793	9783	1.440	0.001	
7.663	8606	9666	1.123	0.001	
7.675	2827	9464	3.347	0.000	
7.683	9373	9620	1.026	0.001	
7.699	3657	9205	2.517	0.000	
7.708	5071	9290	1.832	0.000	
7.713	10483	9274	0.885	0.001	
7.735	10686	9257	0.866	0.001	
7.752	4732	8664	1.831	0.000	
7.765	5624	8765	1.558	0.000	
7.773	5614	8686	1.547	0.000	
7.784	3375	8506	2.520	0.000	
7.793	2118	8517	4.021	0.000	
7.799	10086	8544	0.847	0.001	
7.817	7761	8325	1.073	0.001	
7.833	2415	8088	3.350	0.000	
7.838	2838	8160	2.875	0.000	
7.844	3649	8173	2.240	0.000	
7.858	2009	8069	4.017	0.000	
7.864	4482	8197	1.829	0.000	
7.871	3688	8223	2.230	0.000	
7.879	4875	8269	1.696	0.000	
7.889	2009	8061	4.013	0.000	
7.897	4080	8308	2.036	0.000	
7.916	17828	10103	0.567	0.002	
7.935	4052	9086	2.242	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.940	2229	8948	4.015	0.000	
7.945	5765	8973	1.556	0.000	
7.954	6458	8765	1.357	0.000	
7.976	2099	8428	4.016	0.000	
7.984	10213	8807	0.862	0.001	
7.999	4897	8282	1.691	0.000	
8.013	8782	8112	0.924	0.001	
8.028	5860	7858	1.341	0.000	
8.040	3929	7871	2.003	0.000	
8.054	9161	8146	0.889	0.001	
8.067	2701	7766	2.876	0.000	
8.074	3069	7702	2.510	0.000	
8.081	2694	7742	2.874	0.000	
8.088	2705	7793	2.881	0.000	
8.095	5842	7832	1.341	0.000	
8.104	5419	7841	1.447	0.000	
8.119	5740	7735	1.348	0.000	
8.134	4986	7768	1.558	0.000	
8.141	5893	8009	1.359	0.000	
8.159	9098	8027	0.882	0.001	11 C24
8.174	3156	7971	2.526	0.000	
8.185	2376	7967	3.353	0.000	
8.190	4739	7937	1.675	0.000	
8.202	5181	8028	1.549	0.000	
8.212	1994	8027	4.025	0.000	
8.223	6137	8270	1.348	0.000	
8.236	6864	8171	1.190	0.001	
8.248	2383	7986	3.351	0.000	
8.253	2405	8059	3.351	0.000	
8.259	5294	8207	1.550	0.000	
8.268	2866	8235	2.874	0.000	
8.280	6583	8312	1.263	0.000	
8.289	4538	8296	1.828	0.000	
8.295	2060	8300	4.029	0.000	
8.300	2063	8291	4.020	0.000	
8.313	7062	8400	1.189	0.001	
8.318	1667	8375	5.023	0.000	
8.332	11362	9100	0.801	0.001	
8.343	4357	8741	2.006	0.000	
8.358	1267	8458	6.676	0.000	
8.363	2991	8621	2.882	0.000	
8.371	3980	8983	2.257	0.000	
8.379	6330	9083	1.435	0.000	
8.385	3111	8963	2.881	0.000	
8.393	6706	9050	1.349	0.000	
8.404	4903	8943	1.824	0.000	
8.417	8437	8972	1.063	0.001	
8.438	7166	9103	1.270	0.001	
8.443	3211	9227	2.873	0.000	12 C25
8.450	3688	9295	2.521	0.000	
8.455	2313	9276	4.010	0.000	
8.475	30054	13714	0.456	0.004	
8.504	5760	9733	1.690	0.000	
8.519	2799	9376	3.350	0.000	
8.529	4766	9710	2.037	0.000	
8.537	4875	9815	2.013	0.000	
8.543	8411	9973	1.186	0.001	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.555	2969	9916	3.340	0.000	
8.560	3974	9987	2.513	0.000	
8.568	2483	9997	4.026	0.000	
8.572	5007	10043	2.006	0.000	
8.591	14074	10725	0.762	0.002	
8.602	2648	10665	4.028	0.000	
8.606	2159	10862	5.032	0.000	
8.609	2183	10952	5.017	0.000	
8.633	7361	10561	1.435	0.001	
8.647	6774	10495	1.549	0.001	
8.658	2596	10420	4.014	0.000	
8.663	4723	10573	2.239	0.000	
8.669	3156	10589	3.355	0.000	
8.687	15405	11334	0.736	0.002	
8.699	6103	11158	1.828	0.000	
8.707	2223	11136	5.009	0.000	13 C26
8.730	28697	12536	0.437	0.004	
8.754	8658	11553	1.334	0.001	
8.763	2896	11612	4.010	0.000	
8.780	15029	12352	0.822	0.002	
8.788	1833	12243	6.680	0.000	
8.798	11854	12679	1.070	0.001	
8.806	1873	12509	6.677	0.000	
8.809	3133	12565	4.011	0.000	
8.813	2506	12550	5.008	0.000	
8.819	7588	12757	1.681	0.001	
8.829	4418	12679	2.870	0.000	
8.835	6988	12762	1.826	0.001	
8.848	13711	13258	0.967	0.002	
8.872	26625	13656	0.513	0.003	
8.894	4575	13127	2.869	0.000	
8.898	2631	13188	5.013	0.000	
8.902	5918	13262	2.241	0.000	
8.914	8577	13313	1.552	0.001	
8.922	4011	13433	3.349	0.000	
8.926	4724	13546	2.867	0.000	
8.933	6787	13651	2.011	0.001	
8.946	9614	13923	1.448	0.001	
8.951	6274	14004	2.232	0.000	
8.960	5592	14036	2.510	0.000	
8.966	3513	14090	4.011	0.000	
8.969	2829	14171	5.009	0.000	
8.973	4976	14233	2.860	0.000	
8.980	4289	14365	3.350	0.000	
8.996	27708	16441	0.593	0.004	
9.013	8129	14847	1.827	0.001	
9.025	8129	14840	1.826	0.001	
9.036	7503	15229	2.030	0.001	
9.040	4559	15225	3.340	0.000	
9.057	14920	16251	1.089	0.002	
9.067	9915	16831	1.698	0.001	
9.076	8535	17331	2.031	0.001	
9.081	5250	17596	3.352	0.000	
9.084	10558	17675	1.674	0.001	
9.095	4386	17601	4.013	0.000	
9.111	30564	19262	0.630	0.004	
9.128	8346	18722	2.243	0.001	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.139	15095	18986	1.258	0.002	
9.149	6655	19050	2.862	0.000	
9.158	23240	19719	0.848	0.003	
9.171	1903	19042	10.005	0.000	
9.175	4773	19156	4.013	0.000	
9.187	23630	19927	0.843	0.003	
9.199	4925	19763	4.013	0.000	
9.208	14115	20394	1.445	0.002	
9.219	12303	20691	1.682	0.001	
9.226	7266	20831	2.867	0.001	
9.233	15622	21000	1.344	0.002	14 C28
9.247	9280	20714	2.232	0.001	
9.262	45057	27849	0.618	0.006	
9.281	22651	23200	1.024	0.003	
9.304	13489	22820	1.692	0.001	
9.307	18038	22862	1.267	0.002	
9.328	8656	21778	2.516	0.001	
9.334	8635	21650	2.507	0.001	
9.343	16240	21738	1.339	0.002	
9.354	5409	21709	4.013	0.000	
9.367	16481	22234	1.349	0.002	
9.370	6683	22346	3.344	0.000	
9.382	14775	23166	1.568	0.002	
9.390	11679	23531	2.015	0.001	
9.394	12888	23584	1.830	0.001	
9.408	18752	23645	1.261	0.002	
9.416	4675	23396	5.004	0.000	
9.428	25138	24392	0.970	0.003	
9.438	20233	24095	1.191	0.002	
9.468	67429	26696	0.396	0.009	
9.496	8413	24122	2.867	0.001	
9.507	12049	24259	2.013	0.001	
9.527	36362	25771	0.709	0.005	
9.538	12891	25911	2.010	0.001	
9.543	6452	25853	4.007	0.000	
9.551	10420	26202	2.515	0.001	
9.557	29750	26593	0.894	0.004	
9.574	6252	25071	4.010	0.000	
9.593	29143	27655	0.949	0.004	
9.599	40783	27905	0.684	0.006	
9.620	13159	26364	2.004	0.001	
9.632	17259	26799	1.553	0.002	
9.640	13210	26592	2.013	0.001	
9.664	35362	28170	0.797	0.005	
9.672	27890	28134	1.009	0.004	
9.696	26737	28634	1.071	0.003	
9.711	53475	30848	0.577	0.007	
9.745	33266	29504	0.887	0.004	$ 15 Triacon Surr
9.752	7348	29501	4.015	0.001	
9.756	20542	29565	1.439	0.003	
9.768	7255	29059	4.005	0.001	
9.773	7275	29173	4.010	0.001	
9.785	31543	30611	0.970	0.004	
9.803	46804	32832	0.701	0.006	
9.821	10456	30060	2.875	0.001	
9.833	30772	31156	1.012	0.004	
9.860	77784	33514	0.431	0.011	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.881	12779	32069	2.510	0.001	
9.892	14531	32668	2.248	0.002	
9.896	8201	32902	4.012	0.001	
9.908	23357	33882	1.451	0.003	
9.912	27050	34095	1.260	0.003	
9.939	14585	32570	2.233	0.002	
9.951	23032	33095	1.437	0.003	
9.956	11596	33292	2.871	0.001	
9.966	16544	33271	2.011	0.002	
9.971	11660	33391	2.864	0.001	
9.975	10051	33617	3.345	0.001	
9.983	15209	33983	2.234	0.002	
9.988	15177	33830	2.229	0.002	
9.996	10128	33907	3.348	0.001	
10.018	43348	35629	0.822	0.006	
10.021	7133	35693	5.004	0.001	
10.025	8960	35988	4.016	0.001	
10.034	42064	36944	0.878	0.006	
10.063	65447	38699	0.591	0.009	
10.077	7375	36906	5.004	0.001	
10.083	16743	37428	2.235	0.002	
10.095	34467	38665	1.122	0.005	
10.118	90921	40621	0.447	0.013	
10.151	37738	38047	1.008	0.005	
10.158	11383	38037	3.342	0.001	
10.168	36074	38274	1.061	0.005	
10.181	15072	37809	2.509	0.002	16 C32
10.185	5655	37746	6.675	0.000	
10.198	43905	38471	0.876	0.006	
10.208	24771	38177	1.541	0.003	
10.218	19031	38113	2.003	0.002	
10.228	13353	38279	2.867	0.001	
10.237	21225	38826	1.829	0.003	
10.243	30946	38929	1.258	0.004	
10.266	43064	39733	0.923	0.006	
10.275	11912	39784	3.340	0.001	
10.278	19932	39886	2.001	0.002	
10.293	46366	40725	0.878	0.006	
10.318	46465	41024	0.883	0.006	
10.328	24720	41353	1.673	0.003	
10.334	10308	41278	4.005	0.001	
10.343	29100	41866	1.439	0.004	
10.354	22822	41695	1.827	0.003	
10.360	16568	41490	2.504	0.002	
10.376	31388	42321	1.348	0.004	
10.384	36478	43119	1.182	0.005	
10.393	21427	43144	2.014	0.003	
10.416	82339	44731	0.543	0.012	
10.434	23173	42257	1.824	0.003	
10.455	42801	43684	1.021	0.006	
10.459	19648	44004	2.240	0.002	
10.469	19632	43883	2.235	0.002	
10.492	56113	45807	0.816	0.008	
10.497	20626	45915	2.226	0.003	
10.503	27439	45837	1.671	0.004	
10.513	31833	45842	1.440	0.004	
10.523	6773	45190	6.672	0.001	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
10.529	22697	45513	2.005	0.003	
10.543	39087	46432	1.188	0.005	
10.552	16284	46719	2.869	0.002	
10.558	18796	47158	2.509	0.002	
10.576	69878	48769	0.698	0.010	
10.586	12085	48384	4.004	0.001	
10.592	21757	48469	2.228	0.003	
10.609	46960	50482	1.075	0.006	
10.616	40486	50812	1.255	0.005	17 C34
10.628	52392	50284	0.960	0.007	
10.665	99744	52644	0.528	0.014	
10.680	20832	52264	2.509	0.003	
10.699	126137	55939	0.443	0.018	
10.723	18258	52316	2.865	0.002	
10.733	65550	52928	0.807	0.009	
10.751	49102	51903	1.057	0.007	
10.765	10288	51490	5.005	0.001	
10.777	73220	52877	0.722	0.010	
10.791	15621	52150	3.338	0.002	
10.799	46819	52190	1.115	0.006	
10.817	52000	52328	1.006	0.007	
10.828	13014	52167	4.008	0.001	
10.833	18275	52280	2.861	0.002	
10.838	67284	52271	0.777	0.009	
10.860	15395	51401	3.339	0.002	
10.867	15366	51252	3.335	0.002	
10.874	25712	51608	2.007	0.003	
10.885	59363	52064	0.877	0.008	
10.901	33199	51247	1.544	0.004	
10.911	35859	51446	1.435	0.005	
10.925	15150	50526	3.335	0.002	
10.936	27761	50508	1.819	0.004	
10.954	40634	51235	1.261	0.005	
10.958	17973	51428	2.861	0.002	
10.982	101216	54997	0.543	0.014	
10.999	80380	54264	0.675	0.011	
11.022	15822	52869	3.342	0.002	
11.029	23878	53171	2.227	0.003	
11.032	23908	53219	2.226	0.003	
11.044	39793	53228	1.338	0.005	
11.053	13218	52959	4.007	0.001	19 C36
11.057	26491	53088	2.004	0.003	
11.069	47933	53454	1.115	0.007	
11.079	78088	52997	0.679	0.011	
11.132	4853	48537	10.002	0.000	
11.138	21933	48845	2.227	0.003	
11.148	46678	49317	1.057	0.006	
11.158	12248	49060	4.006	0.001	
11.164	14711	49102	3.338	0.002	
11.179	64473	49939	0.775	0.009	
11.192	19751	49439	2.503	0.002	
11.197	14848	49541	3.337	0.002	
11.202	17336	49566	2.859	0.002	
11.206	12400	49639	4.003	0.001	
11.212	56808	49881	0.878	0.008	
11.230	26830	48794	1.819	0.003	
11.263	19014	47590	2.503	0.002	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
11.267	11927	47790	4.007	0.001	
11.285	66432	50042	0.753	0.009	
11.308	17214	49235	2.860	0.002	
11.312	19684	49285	2.504	0.002	
11.322	19740	49570	2.511	0.002	
11.331	27467	50208	1.828	0.004	
11.334	12565	50301	4.003	0.001	
11.338	17617	50367	2.859	0.002	
11.356	50450	50688	1.005	0.007	
11.383	31641	48774	1.541	0.004	
11.392	14562	48589	3.337	0.002	
11.398	14566	48593	3.336	0.002	
11.405	21947	48858	2.226	0.003	
11.418	36961	49602	1.342	0.005	
11.428	52174	49838	0.955	0.007	
11.438	46900	49605	1.058	0.006	
11.456	66003	49218	0.746	0.009	
11.481	84312	48818	0.579	0.012	
11.518	39837	46996	1.180	0.005	
11.533	55836	46822	0.839	0.008	20 C38
11.560	30101	46465	1.544	0.004	
11.568	20916	46512	2.224	0.003	
11.573	11637	46596	4.004	0.001	
11.579	23274	46598	2.002	0.003	
11.586	13953	46531	3.335	0.002	
11.591	9318	46631	5.004	0.001	
11.623	97892	48831	0.499	0.014	
11.631	17107	48984	2.863	0.002	
11.638	22090	49260	2.230	0.003	
11.642	32050	49351	1.540	0.004	
11.669	95446	50981	0.534	0.014	
11.685	95822	49865	0.520	0.014	
11.788	8918	44609	5.002	0.001	
11.791	35704	44768	1.254	0.005	
11.804	11082	44350	4.002	0.001	
11.813	22172	44403	2.003	0.003	
11.823	19993	44543	2.228	0.002	
11.829	13395	44754	3.341	0.001	
11.837	20184	44981	2.228	0.002	
11.852	26933	44942	1.669	0.003	
11.866	36041	45224	1.255	0.005	
11.877	15835	45355	2.864	0.002	
11.883	18222	45726	2.509	0.002	
11.889	15985	45741	2.861	0.002	
11.896	20679	46117	2.230	0.003	
11.905	23259	46896	2.016	0.003	
11.929	70146	49826	0.710	0.010	
11.936	52288	50085	0.958	0.007	
11.951	14787	49369	3.339	0.002	
11.957	17313	49595	2.865	0.002	
11.961	32199	49647	1.542	0.004	
11.971	19578	49063	2.506	0.002	
11.980	34244	49065	1.433	0.005	
12.019	96987	51133	0.527	0.014	
12.025	48685	51499	1.058	0.007	
12.053	38386	51386	1.339	0.005	
12.062	38575	51549	1.336	0.005	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
12.070	17923	51300	2.862	0.002	
12.078	45780	51141	1.117	0.006	
12.105	31495	48817	1.550	0.004	
12.118	85510	48295	0.565	0.012	
12.148	55474	46657	0.841	0.008	21 C40
12.172	34299	45899	1.338	0.005	
12.181	18286	45754	2.502	0.002	
12.188	20565	45727	2.223	0.003	
12.198	29701	45787	1.542	0.004	
12.212	11377	45530	4.002	0.001	
12.218	29576	45566	1.541	0.004	
12.237	41054	45750	1.114	0.006	
12.243	13695	45701	3.337	0.002	
12.253	27528	46122	1.675	0.004	
12.260	16149	46201	2.861	0.002	
12.272	32473	46571	1.434	0.004	
12.347	231342	54259	0.235	0.034	
12.355	96470	54322	0.563	0.014	
12.383	13155	52687	4.005	0.001	
12.389	52817	52930	1.002	0.007	
12.434	117936	55204	0.468	0.017	
12.440	19323	55283	2.861	0.002	
12.448	22049	55156	2.502	0.003	
12.460	127044	56114	0.442	0.018	
12.500	63536	55700	0.877	0.009	
12.519	44746	56237	1.257	0.006	
12.523	16928	56556	3.341	0.002	
12.528	14154	56666	4.003	0.002	
12.532	14154	56644	4.002	0.002	
12.538	25607	57089	2.229	0.003	
12.543	31284	57010	1.822	0.004	
12.560	76588	57084	0.745	0.011	
12.574	22463	56167	2.500	0.003	
12.583	192414	56305	0.293	0.028	
12.668	201456	54098	0.269	0.029	
12.722	63529	49368	0.777	0.009	
12.744	14574	48683	3.340	0.002	
12.757	68233	49046	0.719	0.010	
12.777	29106	48653	1.672	0.004	
12.802	69072	49884	0.722	0.010	
12.805	19947	49915	2.502	0.002	
12.813	12457	49907	4.006	0.001	
12.826	42860	50672	1.182	0.006	
12.830	15192	50711	3.338	0.002	
12.835	63121	50727	0.804	0.009	
12.856	30109	50299	1.671	0.004	
12.871	12459	49875	4.003	0.001	
12.876	24950	49913	2.001	0.003	
12.883	12458	49860	4.002	0.001	
12.892	24999	50091	2.004	0.003	
12.904	37682	50442	1.339	0.005	
12.918	60965	51059	0.838	0.009	
12.929	15268	50972	3.338	0.002	
12.950	101236	52476	0.518	0.014	
12.991	32619	50285	1.542	0.004	
13.030	23826	47690	2.002	0.003	
13.047	49429	47410	0.959	0.007	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
13.072	11668	46709	4.003	0.001	
13.077	14056	46964	3.341	0.002	
13.083	21201	47214	2.227	0.003	
13.092	45034	47490	1.055	0.006	
13.103	33139	47401	1.430	0.004	
13.119	58622	47300	0.807	0.008	
13.136	61979	46406	0.749	0.009	
13.163	36232	45399	1.253	0.005	
13.172	13552	45219	3.337	0.002	
13.178	13550	45211	3.337	0.002	
13.183	13581	45318	3.337	0.002	
13.188	15867	45365	2.859	0.002	
13.193	11350	45433	4.003	0.001	
13.206	54879	45909	0.837	0.008	
13.233	74220	46899	0.632	0.010	
13.246	18724	46923	2.506	0.002	
13.250	14089	47028	3.338	0.002	
13.254	9392	46999	5.004	0.001	
13.261	35241	47103	1.337	0.005	
13.270	21093	46884	2.223	0.003	
13.278	16404	46889	2.858	0.002	
13.284	28108	46937	1.670	0.004	
13.309	27777	46575	1.677	0.004	
13.313	11643	46617	4.004	0.001	
13.323	30391	46938	1.544	0.004	
13.337	49696	47554	0.957	0.007	
13.345	11906	47686	4.005	0.001	
13.352	21499	47921	2.229	0.003	
13.358	14416	48133	3.339	0.002	
13.366	24163	48487	2.007	0.003	
13.391	108474	49842	0.459	0.016	
13.411	39818	49922	1.254	0.005	
13.421	140245	49882	0.356	0.020	
13.468	75433	46221	0.613	0.011	
13.519	59701	44435	0.744	0.008	
13.538	26345	44021	1.671	0.003	
13.553	17475	43727	2.502	0.002	
13.559	19699	43828	2.225	0.002	
13.566	15324	43832	2.860	0.002	
13.574	28519	43956	1.541	0.004	
13.585	21950	43943	2.002	0.003	
13.595	26497	44341	1.673	0.003	
13.603	22230	44574	2.005	0.003	
13.608	11135	44585	4.004	0.001	
13.633	100703	46371	0.460	0.014	
13.650	25255	45974	1.820	0.003	
13.663	20511	45675	2.227	0.003	
13.670	15945	45584	2.859	0.002	
13.677	40973	45642	1.114	0.006	
13.688	4544	45448	10.002	0.000	
13.693	29520	45508	1.542	0.004	
13.718	24720	44995	1.820	0.003	
13.727	11216	44890	4.002	0.001	
13.735	29185	45025	1.543	0.004	
13.752	17874	44782	2.505	0.002	
13.767	35874	45020	1.255	0.005	
13.775	36036	45104	1.252	0.005	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
13.785	11226	44939	4.003	0.001	
13.790	47016	44953	0.956	0.006	
13.813	11118	44516	4.004	0.001	
13.818	37641	44507	1.182	0.005	
13.832	15424	44192	2.865	0.002	
13.838	17564	43967	2.503	0.002	
13.844	26339	43892	1.666	0.003	
13.855	30567	43821	1.434	0.004	
13.865	23854	43526	1.825	0.003	
13.882	28266	43639	1.544	0.004	
13.886	30418	43629	1.434	0.004	
13.901	34702	43472	1.253	0.005	
13.920	48162	44005	0.914	0.007	
13.928	17577	43956	2.501	0.002	
13.941	15410	44084	2.861	0.002	
13.946	11045	44251	4.006	0.001	
13.949	24369	44341	1.820	0.003	
13.959	22103	44264	2.003	0.003	
13.967	22088	44195	2.001	0.003	
13.976	33207	44336	1.335	0.004	18 Filter Peak
13.998	24195	44018	1.819	0.003	
14.007	15335	43888	2.862	0.002	
14.014	17519	43863	2.504	0.002	
14.019	54335	43870	0.807	0.008	
14.046	10722	42915	4.003	0.001	
14.052	19305	42955	2.225	0.002	
14.058	8568	42864	5.003	0.001	
14.067	38739	43159	1.114	0.005	
14.077	15012	42931	2.860	0.002	
14.083	25753	42977	1.669	0.003	
14.102	25682	42913	1.671	0.003	
14.108	19267	42865	2.225	0.002	
14.116	12834	42815	3.336	0.001	
14.126	25874	43369	1.676	0.003	
14.133	56339	43595	0.774	0.008	
14.161	32503	43582	1.341	0.004	
14.165	10909	43696	4.006	0.001	
14.170	15313	43822	2.862	0.002	
14.175	10960	43911	4.007	0.001	
14.178	13176	43945	3.335	0.001	
14.183	19785	43976	2.223	0.002	
14.191	8796	44018	5.005	0.001	
14.197	17636	44177	2.505	0.002	
14.208	28815	44459	1.543	0.004	
14.219	8873	44379	5.002	0.001	
14.223	13318	44445	3.337	0.001	
14.229	28860	44456	1.540	0.004	
14.247	15436	44194	2.863	0.002	
14.260	37147	43758	1.178	0.005	
14.274	45685	43705	0.957	0.006	
	677340272	268782821		100.000	

Total unknown % area = 25.478

Supelco®

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Certificate of Composition - Analytical Standard

ACID STOC"

Product no.: 22523046
Lot no.: LRAC9812
Expiry Date: May 2023
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: Dichloromethane
Certificate version: LRAC9812.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

J005200
SVOA-ABN ACID STOCK-200-800ug/ml
Solvent / Lot: DCM
Prep: 5/18/2021 by JZ
Exp: 5/31/2023
Location:

JZ 5/18/21

Analyte	*Assigned Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
2,4-DIMETHYLPHENOL CAS# 105-67-9	802	µg/mL	99.9	LB88935
2,4-DICHLOROPHENOL CAS# 120-83-2	802	µg/mL	100.0	BCBZ6787
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	802	µg/mL	99.9	JS00008
2,4-DINITROPHENOL CAS# 51-28-5	1806	µg/mL	75.9	MKBP5833V
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	803	µg/mL	98.7	LB82983
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	801	µg/mL	99.9	JS00013
4-NITROPHENOL CAS# 100-02-7	801	µg/mL	99.9	LC10889
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	1804	µg/mL	99.7	LC18338
PENTACHLOROPHENOL CAS# 87-86-5	803	µg/mL	98.7	MKCK8156
BENZOIC ACID CAS# 65-85-0	1805	µg/mL	99.9	LC16514

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Agilent

Certificate of Analysis

J008074

SVOA PAH STD 2000ug/ml
Expires 6/30/2023
Prepared By Joshua Rains 8/5/2021

Product Name: PAH Standard

Product Number: US-106N-1

Lot Number: 0006540449

Lot Issue Date: 11-Jun-2020

Expiration Date: 30-Jun-2023

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
acenaphthene	000083-32-9	RM10879	2008 ± 10 µg/mL
acenaphthylene	000208-96-8	RM10891	2003 ± 10 µg/mL
anthracene	000120-12-7	RM14212	2006 ± 10 µg/mL
benz[a]anthracene	000056-55-3	RM16072	2006 ± 10 µg/mL
benzo[b]fluoranthene	000205-99-2	RM14571	2005 ± 10 µg/mL
benzo[k]fluoranthene	000207-08-9	RM14321	2009 ± 10 µg/mL
benzo[ghi]perylene	000191-24-2	RM15761	2008 ± 10 µg/mL
benzo[a]pyrene	000050-32-8	RM12669	2009 ± 10 µg/mL
chrysene	000218-01-9	RM12260	2009 ± 10 µg/mL
dibenz[a,h]anthracene	000053-70-3	RM06786	2009 ± 10 µg/mL
fluoranthene	000206-44-0	RM12277	2004 ± 10 µg/mL
fluorene	000086-73-7	RM09441	2009 ± 10 µg/mL
indeno[1,2,3-cd]pyrene	000193-39-5	RM14192	2009 ± 10 µg/mL
naphthalene	000091-20-3	NT00970	2008 ± 10 µg/mL
phenanthrene	000085-01-8	RM10495	2009 ± 10 µg/mL
pyrene	000129-00-0	RM03479	2008 ± 10 µg/mL

Matrix: methylene chloride/benzene (1:1)

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 17025 Cert
No. AT-1937

Certificate of Analysis

Product Number: US-106N-1 **Lot Number:** 0006540449

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026
Page: 2 of 2

www.agilent.com/quality/

ISO 17025 Cert
No. AT-1937

Certificate of Analysis

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL16062
Certification Date: November 19, 2020
Expiration Date: November 30, 2030

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 2.740%
3,3'-Dichlorobenzidine	91-94-1	2000	± 3.229%

J008310
Benzidines std @2000ug/ml
Expires 11/30/2030
Prepared By Van Spohn 8/12/2021

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64691018_us

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

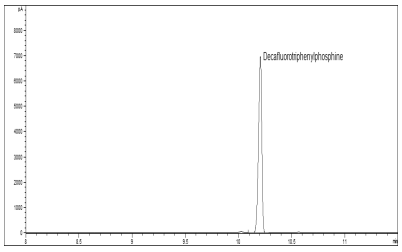
References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Certificate of Analysis - Certified Reference Material

Decafluorotriphenylphosphine solution

Product no.: 48724-U
Lot no.: LRAD0628
Expiry Date: October 2024
Manufacturing Date: September 2021
Storage: ROOM TEMPERATURE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD0628.01 (*Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

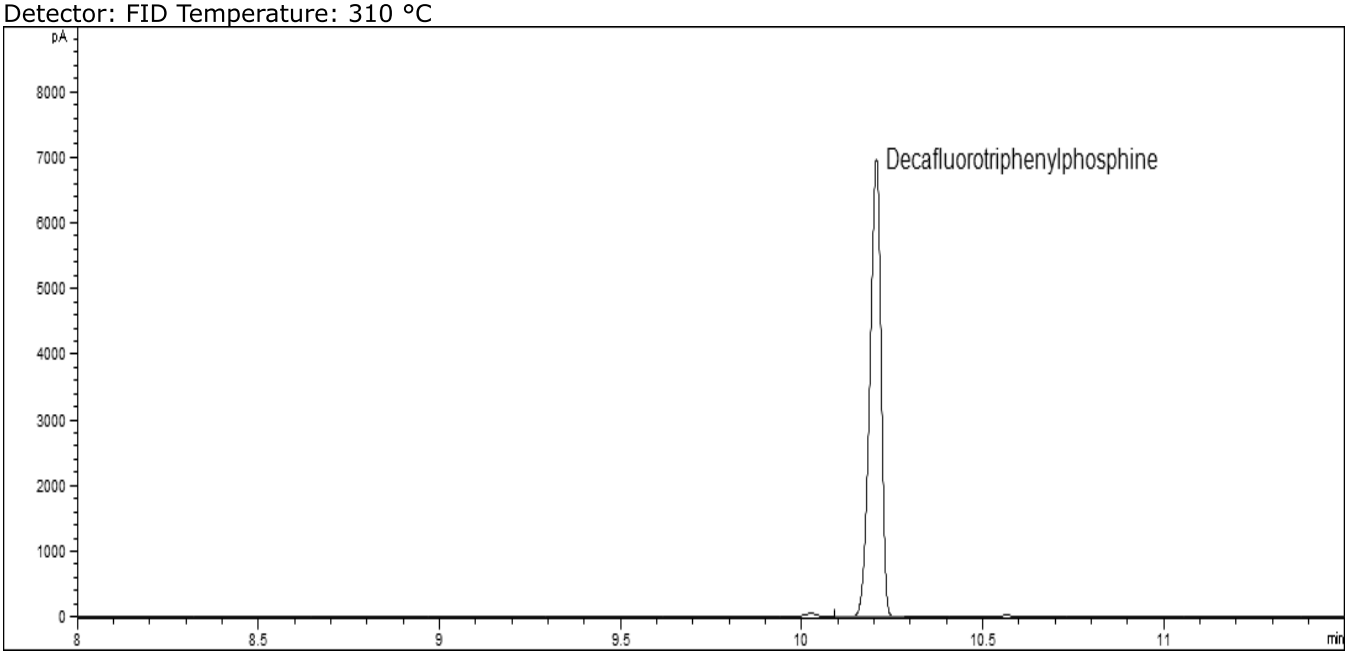


Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
DFTPP CAS# 5074-71-5	25.2 ± 2.6	mg/mL	97.0	10220909

ASSAY Method

METHOD: GC (BELLEFONTE)
Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness
Carrier Gas: H_2 Flow Rate: 4.3 mL/min
Inlet Temperature: 250 °C Injection Volume: 1 µL
Injection Mode: 25:1
Temperature Program: 120 °C (Hold 0 min) @ 12 °C/min to 260 °C (Hold 0 min)
Detector: FID Temperature: 310 °C



Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Elution details:

EO	RT(MIN)	ANALYTE
1	10.206	Decafluorotriphenylphosphine

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Minimum sample size: 1 µL

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 30-Sep-2021

Andy Ommen - QC Manager

Scott Stetler - QA Manager

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom } ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD0628.01	30-Sep-2021	Original Release Date

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Certificate of Analysis

BNAs - Sandy Loam 1

Certified Reference Material

Description

Product ID CRM143-50G
Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Certified Values

Analyte	*Units*	*Certified Value* [1,4]
1,2,4-Trichlorobenzene	µg/Kg	1477 ± 181
1,3-Dichlorobenzene (m-Dichlorobenzene)	µg/Kg	1625 ± 292
1-Chloronaphthalene	µg/Kg	2809 ± 84
2,3-Dimethylphenol	µg/Kg	4552 ± 137
2,4,5-Trichlorophenol	µg/Kg	3438 ± 245
2,4,6-Trichlorophenol	µg/Kg	2194 ± 251
2,4-Dichlorophenol	µg/Kg	6991 ± 394
2,4-Dimethylphenol	µg/Kg	6357 ± 879
2,4-Dinitrophenol	µg/Kg	2922 ± 523
2,4-Dinitrotoluene (2,4-DNT)	µg/Kg	3318 ± 442
2,6-Dichlorophenol	µg/Kg	4578 ± 874
2,6-Dimethylphenol	µg/Kg	7582 ± 228
2-Chloronaphthalene	µg/Kg	2223 ± 168
2-Chlorophenol	µg/Kg	1678 ± 202
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	µg/Kg	5148 ± 685
2-Methylphenol (o-Cresol)	µg/Kg	6004 ± 573
2-Nitrophenol	µg/Kg	6456 ± 383
3,4-Dimethylphenol	µg/Kg	7185 ± 216
3+4-Methylphenol (m+p-Cresol)	µg/Kg	8033 ± 1613
4-Bromophenyl phenyl ether (BDE-3)	µg/Kg	7169 ± 310
4-Chloro-3-methylphenol	µg/Kg	2071 ± 110
4-Chlorophenyl phenylether	µg/Kg	2052 ± 113
4-Methylphenol (p-Cresol)	µg/Kg	6617 ± 1371
4-Nitrophenol	µg/Kg	6812 ± 595
Acenaphthene	µg/Kg	5489 ± 380

Description

Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Acenaphthylene	µg/Kg	1948 ± 240
Anthracene	µg/Kg	2866 ± 237
Benzo(a)anthracene	µg/Kg	5751 ± 552
Benzo(a)pyrene	µg/Kg	5902 ± 612
Benzo(b)fluoranthene	µg/Kg	3010 ± 409
Benzo(b+k)fluoranthene	µg/Kg	6534 ± 196
Benzo(g,h,i)perylene	µg/Kg	1380 ± 136
Benzo(k)fluoranthene	µg/Kg	2215 ± 237
Butyl benzyl phthalate	µg/Kg	3511 ± 384
Carbazole	µg/Kg	5412 ± 407
Chrysene	µg/Kg	1477 ± 72
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	µg/Kg	2905 ± 321
Dibenzo(a,h)anthracene	µg/Kg	3420 ± 302
Dibenzofuran	µg/Kg	6130 ± 253
Dimethyl phthalate	µg/Kg	4537 ± 250
Di-n-butyl phthalate	µg/Kg	1721 ± 154
Di-n-octyl phthalate	µg/Kg	2744 ± 288
Fluoranthene	µg/Kg	2497 ± 222
Fluorene	µg/Kg	3724 ± 222
Hexachlorobutadiene	µg/Kg	1877 ± 245
Indeno(1,2,3-cd) pyrene	µg/Kg	3914 ± 409
Isophorone	µg/Kg	1615 ± 170
Naphthalene	µg/Kg	4458 ± 480
Nitrobenzene	µg/Kg	3539 ± 266
n-Nitrosodimethylamine	µg/Kg	1580 ± 402
n-Nitrosodiphenylamine	µg/Kg	2854 ± 379
Pentachlorophenol	µg/Kg	3411 ± 358
Phenanthrene	µg/Kg	5052 ± 385
Phenol	µg/Kg	2660 ± 184
Pyrene	µg/Kg	2964 ± 256
Pyridine	µg/Kg	1008 ± 30

Informational Values

Certificate of Analysis

BNAs - Sandy Loam 1

Certified Reference Material

Description

Product ID CRM143-50G
Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Analyte	*Units*	*Suggested Acceptance Windows*	*Standard Deviation*
1,2,4-Trichlorobenzene	µg/Kg	148 to 2853	459
1,3-Dichlorobenzene (m-Dichlorobenzene)	µg/Kg	163 to 3440	605
1-Chloronaphthalene	µg/Kg	1123 to 4494	562
2,3-Dimethylphenol	µg/Kg	1821 to 7284	910
2,4,5-Trichlorophenol	µg/Kg	1003 to 5872	811
2,4,6-Trichlorophenol	µg/Kg	640 to 3748	518
2,4-Dichlorophenol	µg/Kg	2391 to 11591	1533
2,4-Dimethylphenol	µg/Kg	0.00 to 13959	2534
2,4-Dinitrophenol	µg/Kg	1169 to 4675	584
2,4-Dinitrotoluene (2,4-DNT)	µg/Kg	1248 to 5388	690
2,6-Dichlorophenol	µg/Kg	1831 to 7324	916
2,6-Dimethylphenol	µg/Kg	3033 to 12132	1516
2-Chloronaphthalene	µg/Kg	748 to 3699	492
2-Chlorophenol	µg/Kg	415 to 2942	421
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	µg/Kg	0.00 to 10347	1733
2-Methylphenol (o-Cresol)	µg/Kg	1306 to 10702	1566
2-Nitrophenol	µg/Kg	1534 to 11379	1641
3,4-Dimethylphenol	µg/Kg	2874 to 11495	1437
3+4-Methylphenol (m+p-Cresol)	µg/Kg	4054 to 16218	2027
4-Bromophenyl phenyl ether (BDE-3)	µg/Kg	2901 to 11437	1423
4-Chloro-3-methylphenol	µg/Kg	677 to 3464	464
4-Chlorophenyl phenylether	µg/Kg	756 to 3348	432
4-Methylphenol (p-Cresol)	µg/Kg	2647 to 10587	1323
4-Nitrophenol	µg/Kg	681 to 14762	2650
Acenaphthene	µg/Kg	2243 to 8736	1082
Acenaphthylene	µg/Kg	712 to 3183	412
Anthracene	µg/Kg	1218 to 4515	550
Benzo(a)anthracene	µg/Kg	2806 to 8696	982
Benzo(a)pyrene	µg/Kg	2512 to 9292	1130
Benzo(b)fluoranthene	µg/Kg	1197 to 4822	604
Benzo(b+k)fluoranthene	µg/Kg	2614 to 10454	1307

Description

Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Benzo(g,h,i)perylene	µg/Kg	489 to 2271	297
Benzo(k)fluoranthene	µg/Kg	892 to 3537	441
Butyl benzyl phthalate	µg/Kg	1255 to 5766	752
Carbazole	µg/Kg	2032 to 8792	1127
Chrysene	µg/Kg	669 to 2284	269
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	µg/Kg	765 to 5045	713
Dibenzo(a,h)anthracene	µg/Kg	1257 to 5583	721
Dibenzofuran	µg/Kg	2766 to 9493	1121
Dimethyl phthalate	µg/Kg	1842 to 7231	898
Di-n-butyl phthalate	µg/Kg	495 to 2947	409
Di-n-octyl phthalate	µg/Kg	690 to 4798	685
Fluoranthene	µg/Kg	984 to 4009	504
Fluorene	µg/Kg	1638 to 5810	695
Hexachlorobutadiene	µg/Kg	425 to 3329	484
Indeno(1,2,3-cd) pyrene	µg/Kg	870 to 6957	1015
Isophorone	µg/Kg	437 to 2792	392
Naphthalene	µg/Kg	1131 to 7784	1109
Nitrobenzene	µg/Kg	1024 to 6054	838
n-Nitrosodimethylamine	µg/Kg	632 to 2528	316
n-Nitrosodiphenylamine	µg/Kg	1142 to 4567	571
Pentachlorophenol	µg/Kg	341 to 7037	1209
Phenanthrene	µg/Kg	2307 to 7798	915
Phenol	µg/Kg	681 to 4639	660
Pyrene	µg/Kg	1118 to 4810	615
Pyridine	µg/Kg	403 to 1613	202

Additional Information:

DESCRIPTION

The organic sample is a soil containing extractable BNAs for analysis by 8100, 8270, 8310 or equivalent methods.

This product consist of a 5 vials each containing 10g of soil for analysis of PAHs. Each vial is identical and has been tested how homogeneity. Only one vial is need for test the remaining vials are to be used for multiple methods or routine testing.

The soil has been sterilized to minimize degradation of the sample.

The sample has been sized to 100 mesh.

Required storage condition is 4ºC.

The sample has been intentionally prepared with an apparent headspace.

STORAGE

The sample should be stored at 4ºC. It has been determined to be stable for the duration of the expiration date.

After sub-sampling replace cap securely and store remaining sample at 4ºC.

The shelf life of the product was determined by historic stability of similar CRM's. The expiration date may be extended based on stock and popularity upon successful stability testing by a 17025 accredited laboratory.

Certificate of Analysis

BNAs - Sandy Loam 1

Certified Reference Material

Description

Product ID	CRM143-50G
Lot	**LRAC8918**
Expiration Date	January 2024
Manufacturing Date	January 2021
Storage Conditions	Refrigerate
Solvent/Matrix	SOIL

Stability and shelf life after opening must be determined by the user, taking into account sampling frequency/volume and all local conditions.

SAMPLE PREPARATION

Extract the complete contents of a single vial. Transfer entire contents of one vial to extraction vessel. Rinse vial and cap with extraction solvent.

Assume a 10g sample size for all calculations.

Note: Sample extracts and calibration solutions should be in the same solvent.

Report all results on a wet weight basis, do not correct for moisture.

NOTE: For method 8100 and using a packed column gas chromatographic method or cannot adequately resolve the following may coelute in four pairs of compounds: anthracene and phenanthrene; chrysene and benzo(a)anthracene; benzo(b)fluoranthene and benzo(k)fluoranthene; and dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene.

SCOPE AND APPLICATION

The BNAs in Soil Certified Reference Material (CRM) consists of 5 10mL VOA vials, with a Teflon lined closures containing approximately 10 grams of soil, fortified with BNAs. Being a natural matrix waste sample the analyst is challenged by the same preparation problems, analytical interferences, etc. as is typical for similar matrices received by the laboratory for analysis.

Description

Lot	**LRAC8918**
Expiration Date	January 2024
Manufacturing Date	January 2021
Storage Conditions	Refrigerate
Solvent/Matrix	SOIL

1 **Metrological traceability:** Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.
4 Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. K=2 unless specified. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom } ogeneity}^2 + u_{stability}^2}$$

***k*:** Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Assume 2.0 for a **Confidence interval = 95%**

6 Analytical Value- For QC verification of the certified value only- not to be used in calculations. Represents the analytical data obtained by comparison to a standard as analyzed by the method described in the CoA or another acceptable method. The result may differ from the certified value and UCRM based on method uncertainty as well as the uncertainty associated with the standard used for comparison.

Traceability: The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were preformed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Homogeneity: Homogeneity was assessed in accordance with ISO 17034:2016. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

Expiration is at end of month given on certificate and label.

MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH **ISO/IEC 17025:2017 (ANAB Cert AT-1467)** and **ISO 17034:2016 (ANAB Cert AR-1470).**

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Certification Date	January 05, 2021
Version	0-152021

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

Agilent

Certificate of Analysis

Product Name: Toxic Substances Standard

Product Number: US-103N-1 **Lot Issue Date:** 25-May-2021

Lot Number: 0006609664 **Expiration Date:** 30-Jun-2024

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
benzoic acid	000065-85-0	RM01884	2005 ± 10 µg/mL
o-cresol	000095-48-7	RM12877	2005 ± 10 µg/mL
p-cresol	000106-44-5	RM01988	2005 ± 10 µg/mL
2,4,5-trichlorophenol	000095-95-4	NT00344	2004 ± 10 µg/mL

Matrix: methylene chloride (dichloromethane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

5/11/22

K004539
toxic sub mix#1
Solvent / Lot: methylene chloride
Prep: 5/11/2022 by JZ
Exp: 6/30/2024
Location:

ANAB ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

ISO 17034

Agilent
Trusted Answers

Reference Material Certificate

Product Name: Phenols Standard
Product Number: US-107N-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006648297
Lot Issue Date: 17-Nov-2021
Expiration Date: 31-Dec-2024

Component Name	CERTIFIED VALUES Concentration	Expanded Uncertainty	CAS#	Analyte Lot
4-chloro-3-methylphenol	2006 ±	10 µg/mL	000059-50-7	RM01885
2-chlorophenol	2007 ±	10 µg/mL	000095-57-8	RM01871
2,4-dichlorophenol	2005 ±	10 µg/mL	000120-83-2	RM13878
2,4-dimethylphenol	2006 ±	10 µg/mL	000105-67-9	RM13009
2,4-dinitrophenol	2006 ±	10 µg/mL	000051-28-5	RM02112
2-methyl-4,6-dinitrophenol	2005 ±	10 µg/mL	000534-52-1	RM02292
2-nitrophenol	2007 ±	10 µg/mL	000088-75-5	RM13445
4-nitrophenol	2006 ±	10 µg/mL	000100-02-7	RM03752
pentachlorophenol	2006 ±	10 µg/mL	000087-86-5	RM02474
phenol	2006 ±	10 µg/mL	000108-95-2	RM11471
2,4,6-trichlorophenol	2006 ±	10 µg/mL	000088-06-2	RM18096

Matrix: methylene chloride (dichloromethane)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

5/11/22

CSD-QA-015.1

K004540
phenols mix
Solvent / Lot: methylene chloride
Prep: 5/11/2022 by JZ
Exp: 12/31/2024
Location:

ISO 17034

Agilent
Trusted Answers

Reference Material Certificate

Product Name: PAH Standard
Product Number: US-106N-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006627349
Lot Issue Date: 17-Sep-2021
Expiration Date: 31-Oct-2024

Component Name	CERTIFIED VALUES Concentration	Expanded Uncertainty	CAS#	Analyte Lot
acenaphthene	2007 ±	10 µg/mL	000083-32-9	RM10879
acenaphthylene	2004 ±	10 µg/mL	000208-96-8	RM10891
anthracene	2006 ±	10 µg/mL	000120-12-7	RM14212
benz[a]anthracene	2006 ±	10 µg/mL	000056-55-3	RM16072
benzo[b]fluoranthene	2006 ±	10 µg/mL	000205-99-2	RM14571
benzo[k]fluoranthene	2006 ±	10 µg/mL	000207-08-9	RM18376
benzo[ghi]perylene	2006 ±	10 µg/mL	000191-24-2	RM15761
benzo[a]pyrene	2006 ±	10 µg/mL	000050-32-8	RM17573
chrysene	2007 ±	10 µg/mL	000218-01-9	RM13771
dibenz[a,h]anthracene	2006 ±	10 µg/mL	000053-70-3	RM06786
fluoranthene	2006 ±	10 µg/mL	000206-44-0	RM12277
fluorene	2006 ±	10 µg/mL	000086-73-7	RM09441
indeno[1,2,3-cd]pyrene	2006 ±	10 µg/mL	000193-39-5	RM14192
naphthalene	2007 ±	10 µg/mL	000091-20-3	RM10445
phenanthrene	2005 ±	10 µg/mL	000085-01-8	RM10495
pyrene	2005 ±	10 µg/mL	000129-00-0	RM16126

Matrix: methylene chloride/benzene (1:1)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

K004541
SVOA PAH STD 2000ug/ml
Solvent / Lot: DCM/BENZENE
Prep: 5/11/2022 by JZ
Exp: 10/31/2024
Location: Fridge 19

CSD-QA-015.1

11/22

Reference Materials Producer
Cert #2495.01

Certificate of Analysis

Chemical Testing
Cert #2495.02

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This **SPEXOrganics**® Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled	Purity	Certified†	Uncertainty
1,2,4-Trichlorobenzene	120-82-1	2000 µg/mL	99%	2010 µg/mL	± 50 µg/mL
1,2-Dichlorobenzene	95-50-1	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
1,3-Dichlorobenzene	541-73-1	2000 µg/mL	98%	2021 µg/mL	± 51 µg/mL
1,4-Dichlorobenzene	106-46-7	2000 µg/mL	99%	2012 µg/mL	± 50 µg/mL
2,4-Dinitrotoluene	121-14-2	2000 µg/mL	97%	2006 µg/mL	± 50 µg/mL
2,6-Dinitrotoluene	606-20-2	2000 µg/mL	99.6%	2012 µg/mL	± 50 µg/mL
2-Chloronaphthalene	91-58-7	2000 µg/mL	98%	2004 µg/mL	± 50 µg/mL
4-Bromodiphenyl ether	101-55-3	2000 µg/mL	99%	2022 µg/mL	± 51 µg/mL
4-Chlorophenyl-phenyl ether	7005-72-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Azobenzene	103-33-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Bis(2-chloro-1-methylethyl) ether	108-60-1	2000 µg/mL	98.9%	2010 µg/mL	± 50 µg/mL
bis(2-Chloroethoxy)methane	111-91-1	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
bis(2-Chloroethyl)ether	111-44-4	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
Bis(2-Ethylhexyl)phthalate	117-81-7	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Butylbenzyl phthalate	85-68-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Carbazole	86-74-8	2000 µg/mL	95%	2009 µg/mL	± 50 µg/mL
Di-n-butyl phthalate	84-74-2	2000 µg/mL	99%	2020 µg/mL	± 50 µg/mL
Di-n-octyl phthalate	117-84-0	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Diethyl phthalate	84-66-2	2000 µg/mL	99.5%	2002 µg/mL	± 50 µg/mL
Dimethyl phthalate	131-11-3	2000 µg/mL	99%	2006 µg/mL	± 50 µg/mL
Hexachlorobenzene	118-74-1	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachlorobutadiene	87-68-3	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
Hexachlorocyclopentadiene	77-47-4	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachloroethane	67-72-1	2000 µg/mL	98%	2003 µg/mL	± 50 µg/mL
Isophorone	78-59-1	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
N-Nitrosodi-n-propylamine	621-64-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
N-Nitrosodiphenylamine	86-30-6	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
Nitrobenzene	98-95-3	2000 µg/mL	99%	2001 µg/mL	± 50 µg/mL
Pyridine	110-86-1	2000 µg/mL	99%	2004 µg/mL	± 50 µg/mL
N-Nitrosodimethylamine	62-75-9	2000 µg/mL	97%	2000 µg/mL	± 50 µg/mL

Certificate of Reference Material

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

Final Solution Verification:

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 1-26-2021 Certifying Officer: Shannon Mora

Report of Certification

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001:2008, ISO 17025:2005, and ISO Guide 34:2009 Quality System consistent with the following standards:

- ISO 9001:2008: Quality management systems - Requirements - Certified by UL-DQS
- ISO 17025:2005: General Requirements for the Competence of Testing and Calibration Laboratories - Accredited by A2LA
- ISO Guide 34:2009: General Requirements for the Competence of Reference Material Producers - Accredited by A2LA
- ISO Guide 31:2000: Reference Materials - Contents of Certificates and Labels
- ISO Guide 35:2006: Reference Materials - General and statistical principals for certification
- Guide to the Expression of Uncertainty in Measurement 1997
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurements - Second Edition
- ASTM Guide D6362-98
- NIST Technical Note 1297
- ILAC-G12-2000: Guidelines for the requirements for the competence of reference material producers
- ISO/REMCO N280

Storage Requirements:

To ensure the stability of the product once it arrives in your laboratory , please store this product in a refrigerator (2°C to 8°C). Note: Shipping conditions may differ from storage conditions. The EXPIRATION DATE is calculated from the MANUFACTURED DATE using our stability data and is applicable only if the product is unopened and stored under the prescribed conditions.

Instructions for Use:

Let material come to room temperature before use. Check for precipitate and if necessary sonicate for one minute. If compounds do not dissolve after one minute then sonicate further until the product is dissolved. A clear appearance is acceptable. The minimum recommended amount that should be removed from this vial is 5 µL with a 25µL gas tight syringe. All solutions should be thoroughly mixed, by shaking, prior to use. All surfaces that come in contact with the solution must be thoroughly cleaned prior to use. Dilutions should be performed only with Class A volumetric glassware.

Material Source:

All analytes and matrix materials are obtained and verified by SPEX CertiPrep from pre-qualified vendors as per ISO guidelines. Vendor identifications are proprietary, however sources of all materials used in the preparation and testing of SPEX CertiPrep CRMs are tracked and documented. For assistance, please contact sales support at crmsales@spexcsp.com.

Method of Preparation:

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, and analytical instrumentation have been qualified prior to use. The highest purity solvents and Class A / calibrated volumetrics have been been used in all preparations.

Homogeneity:

The homogeneity of this CRM has been confirmed by procedures consistent with ISO 17025:2005, ISO Guide 34:2009, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4300-HOMOGEN-1A. This is consistent with the intended use of this CRM. The Degree of Homogeneity, as expressed as maximum between-bottle variation, is 1.2%

Statistical Estimator and Confidence Limits:

The Certified value 'X' as listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X=certified value, U=expanded uncertainty, x=property value
- $U = ku_c$ where k=2 is the coverage factor at the 95% confidence level
- u_c = combined standard uncertainty obtained by combining the individual compound standard uncertainty components u_i, where $u_c = \sqrt{\sum u_i^2}$

Legal Notice:

SPEX CertiPrep Certified Reference Materials are not for any cosmetic, drug, or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against SPEX CertiPrep of any kind whatsoever, whether based on breech of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall SPEX CertiPrep be liable for any loss of profits or any incidental, special, or consequential damages.

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Accredited to 17025 & Guide 34 ISO Certified to 9001

ACCREDITED
Reference Materials Producer
Cert #2495.01

ECS

Certificate of Analysis

ilac-MRA ACCREDITED
Chemical Testing
Cert #2495.02

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This **SPEXOrganics®** Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled	Purity	Certified†	Uncertainty
1,2,4-Trichlorobenzene	120-82-1	2000 µg/mL	99%	2010 µg/mL	± 50 µg/mL
1,2-Dichlorobenzene	95-50-1	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
1,3-Dichlorobenzene	541-73-1	2000 µg/mL	98%	2021 µg/mL	± 51 µg/mL
1,4-Dichlorobenzene	106-46-7	2000 µg/mL	99%	2012 µg/mL	± 50 µg/mL
2,4-Dinitrotoluene	121-14-2	2000 µg/mL	97%	2006 µg/mL	± 50 µg/mL
2,6-Dinitrotoluene	606-20-2	2000 µg/mL	99.6%	2012 µg/mL	± 50 µg/mL
2-Chloronaphthalene	91-58-7	2000 µg/mL	98%	2004 µg/mL	± 50 µg/mL
4-Bromodiphenyl ether	101-55-3	2000 µg/mL	99%	2022 µg/mL	± 51 µg/mL
4-Chlorophenyl-phenyl ether	7005-72-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Azobenzene	103-33-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Bis(2-chloro-1-methylethyl) ether	108-60-1	2000 µg/mL	98.9%	2010 µg/mL	± 50 µg/mL
bis(2-Chloroethoxy)methane	111-91-1	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
bis(2-Chloroethyl)ether	111-44-4	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
Bis(2-Ethylhexyl)phthalate	117-81-7	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Butylbenzyl phthalate	85-68-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Carbazole	86-74-8	2000 µg/mL	95%	2009 µg/mL	± 50 µg/mL
Di-n-butyl phthalate	84-74-2	2000 µg/mL	99%	2020 µg/mL	± 50 µg/mL
Di-n-octyl phthalate	117-84-0	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Diethyl phthalate	84-66-2	2000 µg/mL	99.5%	2002 µg/mL	± 50 µg/mL
Dimethyl phthalate	131-11-3	2000 µg/mL	99%	2006 µg/mL	± 50 µg/mL
Hexachlorobenzene	118-74-1	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachlorobutadiene	87-68-3	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
Hexachlorocyclopentadiene	77-47-4	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachloroethane	67-72-1	2000 µg/mL	98%	2003 µg/mL	± 50 µg/mL
Isophorone	78-59-1	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
N-Nitrosodi-n-propylamine	621-64-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
N-Nitrosodiphenylamine	86-30-6	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
Nitrobenzene	98-95-3	2000 µg/mL	99%	2001 µg/mL	± 50 µg/mL
Pyridine	110-86-1	2000 µg/mL	99%	2004 µg/mL	± 50 µg/mL
N-Nitrosodimethylamine	62-75-9	2000 µg/mL	97%	2000 µg/mL	± 50 µg/mL

K004542

Certificate of Reference Material

Catalog Number: ECS-A-030

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Lot No. AA210126005

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

Final Solution Verification:

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 1-26-2021

Certifying Officer: Shannon Nave

Report of Certification

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001:2008, ISO 17025:2005, and ISO Guide 34:2009 Quality System consistent with the following standards:

- ISO 9001:2008: Quality management systems - Requirements - Certified by UL-DQS
- ISO 17025:2005: General Requirements for the Competence of Testing and Calibration Laboratories - Accredited by A2LA
- ISO Guide 34:2009: General Requirements for the Competence of Reference Material Producers - Accredited by A2LA
- ISO Guide 31:2000: Reference Materials - Contents of Certificates and Labels
- ISO Guide 35:2006: Reference Materials - General and statistical principals for certification
- Guide to the Expression of Uncertainty in Measurement 1997
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurements - Second Edition
- ASTM Guide D6362-98
- NIST Technical Note 1297
- ILAC-G12-2000: Guidelines for the requirements for the competence of reference material producers
- ISO/REMCO N280

Storage Requirements:

To ensure the stability of the product once it arrives in your laboratory, please store this product in a refrigerator (2°C to 8°C). Note: Shipping conditions may differ from storage conditions. The EXPIRATION DATE is calculated from the MANUFACTURED DATE using our stability data and is applicable only if the product is unopened and stored under the prescribed conditions.

Instructions for Use:

Let material come to room temperature before use. Check for precipitate and if necessary sonicate for one minute. If compounds do not dissolve after one minute then sonicate further until the product is dissolved. A clear appearance is acceptable. The minimum recommended amount that should be removed from this vial is 5µL with a 25µL gas tight syringe. All solutions should be thoroughly mixed, by shaking, prior to use. All surfaces that come in contact with the solution must be thoroughly cleaned prior to use. Dilutions should be performed only with Class A volumetric glassware.

Material Source:

All analytes and matrix materials are obtained and verified by SPEX CertiPrep from pre-qualified vendors as per ISO guidelines. Vendor identifications are proprietary, however sources of all materials used in the preparation and testing of SPEX CertiPrep CRMs are tracked and documented. For assistance, please contact sales support at crmsales@spexcsp.com.

Method of Preparation:

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, and analytical instrumentation have been qualified prior to use. The highest purity solvents and Class A / calibrated volumetrics have been been used in all preparations.

Homogeneity:

The homogeneity of this CRM has been confirmed by procedures consistent with ISO 17025:2005, ISO Guide 34:2009, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4300-HOMOGEN-1A. This is consistent with the intended use of this CRM. The Degree of Homogeneity, as expressed as maximum between-bottle variation, is 1.2%

Statistical Estimator and Confidence Limits:

The Certified value 'X' as listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X=certified value, U=expanded uncertainty, x=property value
- $U = ku_c$ where k=2 is the coverage factor at the 95% confidence level
- u_c = combined standard uncertainty obtained by combining the individual compound standard uncertainty components u_i where $u_c = \sqrt{\sum u_i^2}$

Legal Notice:

SPEX CertiPrep Certified Reference Materials are not for any cosmetic, drug, or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against SPEX CertiPrep of any kind whatsoever, whether based on breech of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall SPEX CertiPrep be liable for any loss of profits or any incidental, special, or consequential damages.

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Accredited to 17025 & Guide 34 ISO Certified to 9001

Agilent

Certificate of Analysis

Product Name: 1-Methylnaphthalene Standard

Product Number: EPA-1225-1 **Lot Issue Date:** 19-Jul-2021

Lot Number: 0006624769 **Expiration Date:** 31-Jul-2023

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
1-methylnaphthalene	000090-12-0	RM07712	999.3 ± 5.0 µg/mL

Matrix: methanol (methyl alcohol)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

K004543
1-Methylnaphthalene
Solvent / Lot: MEOH
Prep: 5/11/2022 by JZ
Exp: 7/31/2023
Location:

5/11/22

Sample lot approver:
Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026
Page: 1 of 1
www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert
No. AT-1937

Agilent

Certificate of Analysis

Product Name: Toxic Substances Standard

Product Number: US-104N-1 **Lot Issue Date:** 02-Jul-2021

Lot Number: 0006620643 **Expiration Date:** 31-Jul-2023

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
aniline	000062-53-3	RM12853	2005 ± 10 µg/mL
benzyl alcohol	000100-51-6	RM10547	2004 ± 10 µg/mL
4-chloroaniline	000106-47-8	RM01886	2002 ± 10 µg/mL
dibenzofuran	000132-64-9	RM02077	2002 ± 10 µg/mL
2-methylnaphthalene	000091-57-6	RM01258	2006 ± 10 µg/mL
2-nitroaniline	000088-74-4	RM02402	2003 ± 10 µg/mL
3-nitroaniline	000099-09-2	RM02424	2003 ± 10 µg/mL
4-nitroaniline	000100-01-6	RM02425	2003 ± 10 µg/mL

Matrix: methylene chloride (dichloromethane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

K004544
toxic sub mix#2
Solvent / Lot: methylene chloride
Prep: 5/11/2022 by JZ
Exp: 7/31/2023
Location:

05/11/22

ANAB ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31493 **Lot No.:** A0181243

Description : CLP 04.1 BNA Surrogate Mix

CLP 04.1 BNA Surrogate Mix 1000-1500 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2025 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

05/11/22

K004545
CLP 04.1 BNA SURR MIX
Solvent / Lot: AO175316
Prep: 5/11/2022 by JZ
Exp: 10/20/2025
Location:

Elution Order	Compound	Gr (weig					
1	2-Fluorophenol **CAS #** 367-12-4 (Lot STBJ2508) **Purity** 99%	1,50					
				+/-	53.3632	µg/mL	Stressed
2	Phenol-d6 **CAS #** 13127-88-3 (Lot PR-31262) **Purity** 99%	1,506.0	µg/mL	+/-	8.9452	µg/mL	Gravimetric
				+/-	43.9882	µg/mL	Unstressed
				+/-	53.3632	µg/mL	Stressed
3	2-Chlorophenol-d4 **CAS #** 93951-73-6 (Lot PR-30568) **Purity** 99%	1,510.0	µg/mL	+/-	8.9689	µg/mL	Gravimetric
				+/-	44.1050	µg/mL	Unstressed
				+/-	53.5049	µg/mL	Stressed
4	1,2-Dichlorobenzene-d4 **CAS #** 2199-69-1 (Lot PR-32542/022621DB1 **Purity** 99%	1,004.0	µg/mL	+/-	5.9635	µg/mL	Gravimetric
				+/-	29.3255	µg/mL	Unstressed
				+/-	35.5754	µg/mL	Stressed
5	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	1,008.0	µg/mL	+/-	5.9872	µg/mL	Gravimetric
				+/-	29.4423	µg/mL	Unstressed
				+/-	35.7172	µg/mL	Stressed
6	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 19169) **Purity** 99%	1,006.0	µg/mL	+/-	5.9753	µg/mL	Gravimetric
				+/-	29.3839	µg/mL	Unstressed
				+/-	35.6463	µg/mL	Stressed
7	2,4,6-Tribromophenol **CAS #** 118-79-6 (Lot MKCJ7664) **Purity** 99%	1,506.0	µg/mL	+/-	8.9452	µg/mL	Gravimetric
				+/-	43.9882	µg/mL	Unstressed
				+/-	53.3632	µg/mL	Stressed

Certificate of Analysis

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Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101246
Description: Benzoic Acid
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL17953
Certification Date: January 31, 2022
Expiration Date: January 31, 2032

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzoic acid	65-85-0	2000	± 2.714%

K004603
Benzoic Acid @2000ug/ml
Solvent / Lot: N/A
Prep: 5/13/2022 by JZ
Exp: 1/31/2032
Location: GC

5/13/22

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

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Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

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Certificate of Analysis

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Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL17662
Certification Date: December 2, 2021
Expiration Date: November 30, 2031

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 0.211%
3,3'-Dichlorobenzidine	91-94-1	2000	± 1.305%

K004604
Benzidines std @2000ug/ml
Solvent / Lot: MeCl2
Prep: 5/13/2022 by JZ
Exp: 11/30/2031
Location: GC

5/13/22

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

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Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64591018_us

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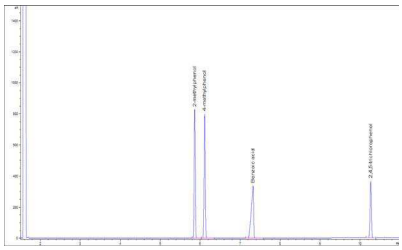
Certificate of Analysis - Certified Reference Material

EPA TCL Hazardous Substances Mix 1

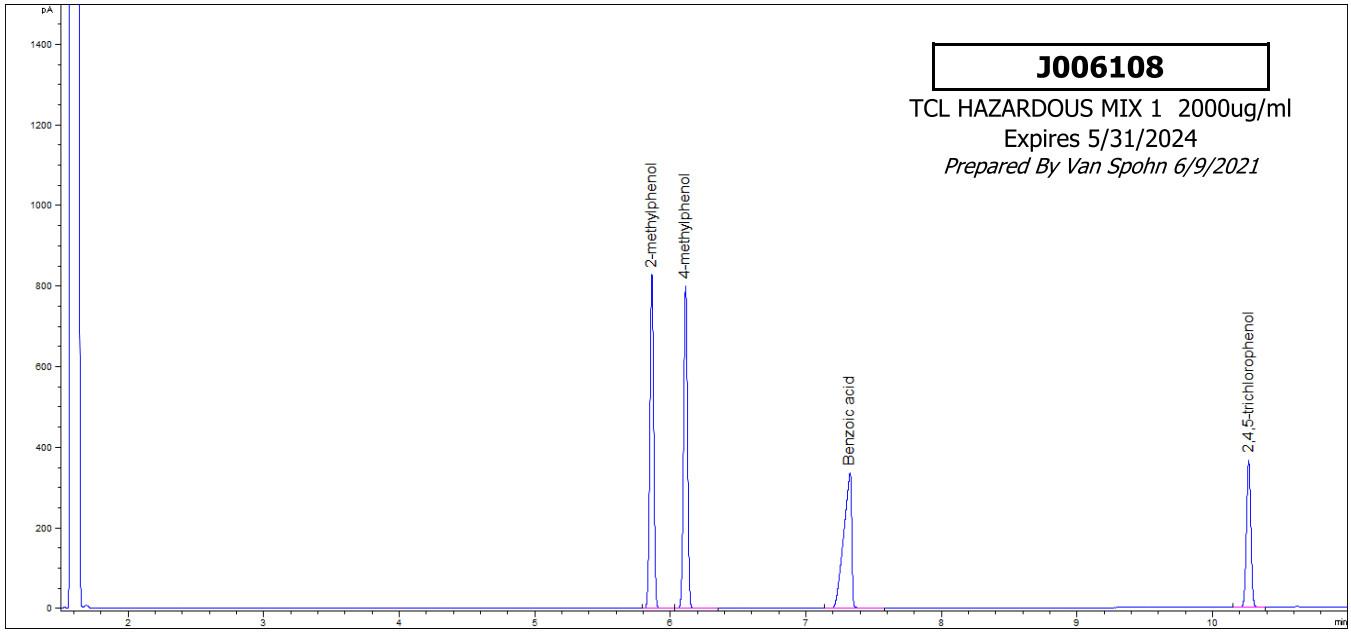
Product no.: 48907
Lot no.: LRAC9610
Expiry Date: May 2024
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAC9610.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*



Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Elution order*	*Raw Material Lot*
2-METHYLPHENOL CAS# 95-48-7	2004 ± 9	µg/mL	99.0	1	G1735A
4-METHYLPHENOL CAS# 106-44-5	2004 ± 13	µg/mL	98.9	2	06921MG
BENZOIC ACID CAS# 65-85-0	2012 ± 6	µg/mL	99.9	3	LC16514
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	2003 ± 6	µg/mL	99.9	4	JS00008

Informational Values:



Additional Information:
Analytical Method Parameters:
Column: Equity-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #98)
Carrier Gas: H2, Flow: 4.5 mL/min
Inlet Temperature: 170 °C, Injection Volume: 1 µL
Injection Mode: Split, Split Ratio: 20:1

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Temperature Program: 80 °C @ 10 °C/min to 190 °C (Hold 5 min)
Detector: FID
Detector Temperature: 310 °C

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 20-May-2021

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom}\ ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAC9610.01	20-May-2021	Original Release Date

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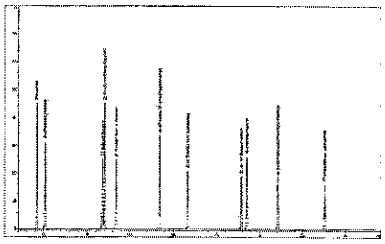
Certificate of Analysis - Certified Reference Material

EPA TCL Phenols Mix

Product no.: 48904
Lot no.: LRAD0139
Expiry Date: July 2024
Manufacturing Date: July 2021
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD0139.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*



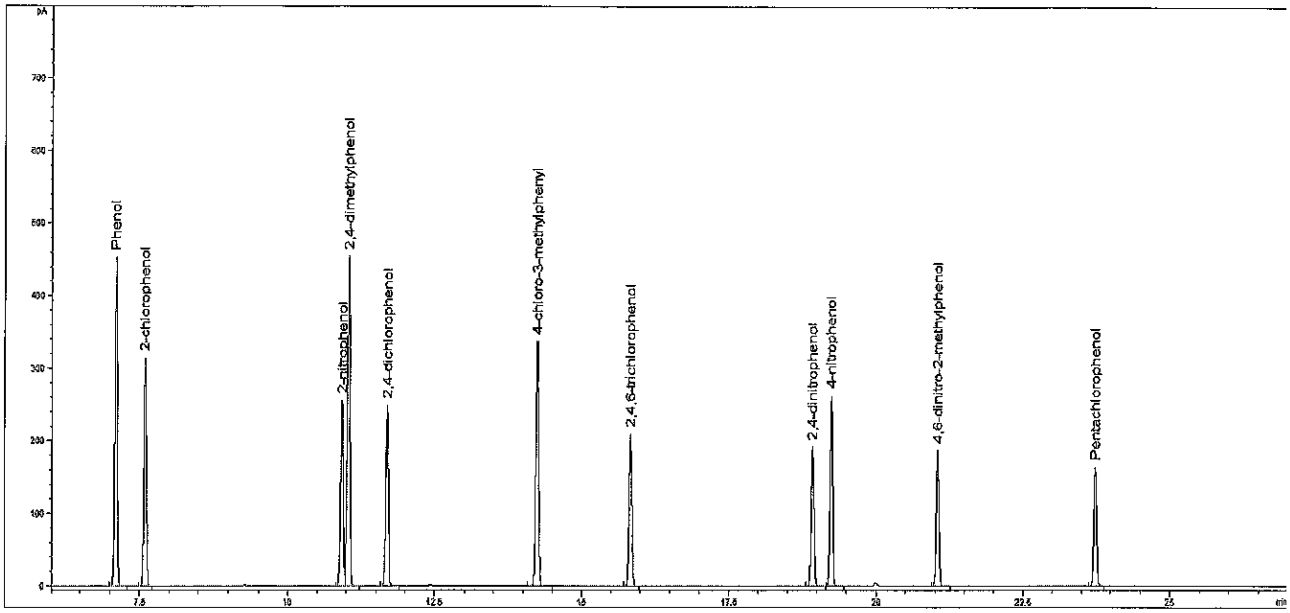
Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
2-CHLOROPHENOL CAS# 95-57-8	2001 ± 25	µg/mL	99.9	STBG3033V
2-NITROPHENOL CAS# 88-75-5	1999 ± 18	µg/mL	99.3	15905BB
2,4-DIMETHYLPHENOL CAS# 105-67-9	2000 ± 14	µg/mL	99.2	05421CO
2,4-DICHLOROPHENOL CAS# 120-83-2	2000 ± 17	µg/mL	99.5	03221TN
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	2000 ± 5	µg/mL	99.9	JS00013
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	2002 ± 5	µg/mL	99.5	04212PS
2,4-DINITROPHENOL CAS# 51-28-5	2000 ± 28	µg/mL	66.9	STBJ5751
4-NITROPHENOL CAS# 100-02-7	2000 ± 33	µg/mL	99.0	04628LT
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	2000 ± 27	µg/mL	99.7	LC18338
PENTACHLOROPHENOL CAS# 87-86-5	1999 ± 25	µg/mL	97.9	MKCD2150

ASSAY Method

J013597
TCL Phenols Mix 2000ug/ml
Solvent / Lot: LRAD0139
Prep: 12/30/2021 by VS
Exp: 7/31/2024
Location:

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.



METHOD: GC (Bellefonte Method)

Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness
Carrier Gas: H_2 Flow Rate: 4.5 mL/min
Inlet Temperature: 200 °C Injection Volume: 1.0 µL
Injection Mode: 25:1
Temperature Program: 80 °C (Hold 2 min) @ 6 °C/min to 260 °C (Hold 5 min)
Detector: FID Temperature: 310 °C

Elution details:

EO	RT(MIN)	ANALYTE
1	7.095	Phenol
2	7.585	2-chlorophenol
3	10.925	2-nitrophenol
4	11.037	2,4-dimethylphenol
5	11.696	2,4-dichlorphenol
6	14.242	4-chloro-3-m3thylphenol
7	15.842	2,4,6-trichlorophenol
8	18.93	2,4-dinitrophenol
9	19.25	4-nitrophenol
10	21.05	4,6-dinitro-2-methylphenol
11	23.752	Pentachlorophenol

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 12-Jul-2021

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{hom\ ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD0139.01	12-Jul-2021	Original Release Date

.

RESTEK® C

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

K007194
CLP 04.1 BNA SURR MIX
Solvent / Lot: AO187400
Prep: 8/5/2022 by VS
Exp: 4/30/2026
Location:

Certificate of Analysis

IAL

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31493 **Lot No.:** A0187400

Description : CLP 04.1 BNA Surrogate Mix

CLP 04.1 BNA Surrogate Mix 1000-1500 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol **CAS #** 367-12-4 (Lot STBJ3299) **Purity** 99%	1,508.0 µg/mL	+/- 8.9571 µg/mL +/- 44.0466 µg/mL +/- 53.4340 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 (Lot SL210831) **Purity** 99%	1,510.0 µg/mL	+/- 8.9689 µg/mL +/- 44.1050 µg/mL +/- 53.5049 µg/mL	Gravimetric Unstressed Stressed
3	2-Chlorophenol-d4 **CAS #** 93951-73-6 (Lot PR-30568) **Purity** 99%	1,512.0 µg/mL	+/- 8.9808 µg/mL +/- 44.1635 µg/mL +/- 53.5758 µg/mL	Gravimetric Unstressed Stressed
4	1,2-Dichlorobenzene-d4 **CAS #** 2199-69-1 (Lot PR-32597) **Purity** 99%	1,004.0 µg/mL	+/- 5.9635 µg/mL +/- 29.3255 µg/mL +/- 35.5754 µg/mL	Gravimetric Unstressed Stressed
5	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	1,004.0 µg/mL	+/- 5.9635 µg/mL +/- 29.3255 µg/mL +/- 35.5754 µg/mL	Gravimetric Unstressed Stressed
6	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	1,004.0 µg/mL	+/- 5.9635 µg/mL +/- 29.3255 µg/mL +/- 35.5754 µg/mL	Gravimetric Unstressed Stressed
7	2,4,6-Tribromophenol **CAS #** 118-79-6 (Lot MKCJ7664) **Purity** 99%	1,502.0 µg/mL	+/- 8.9214 µg/mL +/- 43.8714 µg/mL +/- 53.2214 µg/mL	Gravimetric Unstressed Stressed

8	p-Terphenyl-d14		1,002.0	µg/mL	+/-	5.9516	µg/mL	Gravimetric
	CAS # 1718-51-0	(Lot PR-30504)			+/-	29.2671	µg/mL	Unstressed
	Purity 99%				+/-	35.5046	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

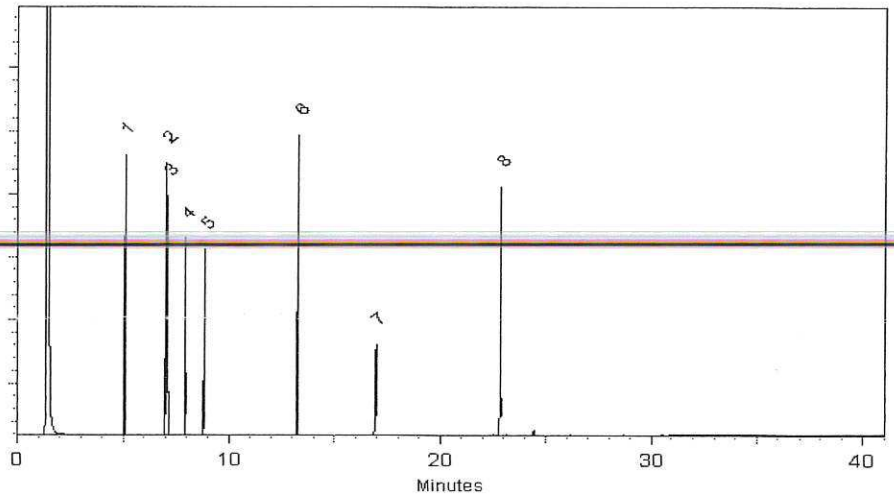
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bryan Snyder - Operations Tech I

Date Mixed: 17-Jul-2022 **Balance:** 1128353505

Christie Mills - Operations Tech II - ARM QC

Date Passed: 21-Jul-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Certificate of Analysis

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18355
Certification Date: July 25, 2022
Expiration Date: August 31, 2023

K007995
SVOA-8270 LCS MIX 1000ug/ml
Solvent / Lot: N/A
Prep: 8/29/2022 by JZ
Exp: 8/31/2023
Location: FREEZER 44

Aaron Dukes, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Acenaphthene	83-32-9	1000	± 0.300%
Acenaphthylene	208-96-8	1000	± 0.225%
Anthracene	120-12-7	1000	± 6.858%
Azobenzene	103-33-3	1000	± 0.224%
Benzo(a)anthracene	56-55-3	1000	± 0.247%
Benzo(a)pyrene	50-32-8	1000	± 0.270%
Benzo(b)fluoranthene	205-99-2	1000	± 0.635%
Benzo(k)fluoranthene	207-08-9	1000	± 0.682%
Benzo(g,h,i)perylene	191-24-2	1000	± 0.272%
Benzyl alcohol	100-51-6	1000	± 0.231%
Benzyl butyl phthalate	85-68-7	1000	± 0.480%
bis(2-Chloroethoxy)methane	111-91-1	1000	± 0.479%
bis(2-Chloroethyl) ether	111-44-4	1000	± 0.479%
bis(2-Chloroisopropyl) ether	108-60-1	1000	± 0.550%
bis(2-Ethylhexyl) adipate	103-23-1	1000	± 0.479%
bis(2-Ethylhexyl) phthalate	117-81-7	1000	± 0.479%
4-Bromophenyl phenyl ether	101-55-3	1000	± 0.479%
Carbazole	86-74-8	1000	± 0.146%

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Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
4-Chloroaniline	106-47-8	1000	± 0.300%
4-Chloro-3-methylphenol	59-50-7	1000	± 0.545%
2-Chloronaphthalene	91-58-7	1000	± 0.224%
2-Chlorophenol	95-57-8	1000	± 0.507%
4-Chlorophenyl phenyl ether	7005-72-3	1000	± 0.479%
Chrysene	218-01-9	1000	± 0.145%
Dibenz(a,h)anthracene	53-70-3	1000	± 1.058%
Dibenzofuran	132-64-9	1000	± 0.302%
Di-n-butyl phthalate	84-74-2	1000	± 0.518%
1,2-Dichlorobenzene	95-50-1	1000	± 0.247%
1,3-Dichlorobenzene	541-73-1	1000	± 0.225%
1,4-Dichlorobenzene	106-46-7	1000	± 0.224%
2,4-Dichlorophenol	120-83-2	1000	± 0.545%
Diethyl phthalate	84-66-2	1000	± 0.518%
2,4-Dimethylphenol	105-67-9	1000	± 0.507%
Dimethyl phthalate	131-11-3	1000	± 0.518%
1,2-Dinitrobenzene	528-29-0	1000	± 0.361%
1,3-Dinitrobenzene	99-65-0	1000	± 0.300%
1,4-Dinitrobenzene	100-25-4	1000	± 0.242%
2,4-Dinitrophenol	51-28-5	1000	± 0.545%
2,4-Dinitrotoluene	121-14-2	1000	± 1.128%

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Certified Reference Material

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Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2,6-Dinitrotoluene	606-20-2	1000	± 0.224%
Di-n-octyl phthalate	117-84-0	1000	± 0.486%
Fluoranthene	206-44-0	1000	± 0.224%
Fluorene	86-73-7	1000	± 0.224%
Hexachlorobenzene	118-74-1	1000	± 0.152%
Hexachlorobutadiene	87-68-3	1000	± 0.746%
Hexachlorocyclopentadiene	77-47-4	1000	± 0.153%
Hexachloroethane	67-72-1	1000	± 0.300%
Indeno(1,2,3-cd)pyrene	193-39-5	1000	± 0.883%
Isophorone	78-59-1	1000	± 0.145%
2-Methyl-4,6-dinitrophenol	534-52-1	1000	± 0.508%
1-Methylnaphthalene	90-12-0	1000	± 0.479%
2-Methylnaphthalene	91-57-6	1000	± 0.487%
2-Methylphenol	95-48-7	1000	± 0.545%
3-Methylphenol	108-39-4	500	± 0.279%
4-Methylphenol	106-44-5	500	± 0.399%
Naphthalene	91-20-3	1000	± 0.226%
2-Nitroaniline	88-74-4	1000	± 0.224%
3-Nitroaniline	99-09-2	1000	± 0.235%
4-Nitroaniline	100-01-6	1000	± 0.300%
Nitrobenzene	98-95-3	1000	± 0.300%

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2-Nitrophenol	88-75-5	1000	± 0.514%
4-Nitrophenol	100-02-7	1000	± 0.519%
N-Nitrosodimethylamine	62-75-9	1000	± 0.503%
N-Nitrosodiphenylamine	86-30-6	1000	± 0.476%
N-Nitrosodi-n-propylamine	621-64-7	1000	± 0.461%
Pentachlorophenol	87-86-5	1000	± 0.202%
Phenanthrene	85-01-8	1000	± 0.145%
Phenol	108-95-2	1000	± 0.545%
Pyrene	129-00-0	1000	± 0.147%
Pyridine	110-86-1	1000	± 0.503%
2,3,4,6-Tetrachlorophenol	58-90-2	1000	± 0.247%
2,3,5,6-Tetrachlorophenol	935-95-5	1000	± 0.247%
1,2,4-Trichlorobenzene	120-82-1	1000	± 0.224%
2,4,5-Trichlorophenol	95-95-4	1000	± 0.507%
2,4,6-Trichlorophenol	88-06-2	1000	± 0.509%

Notes: The proper chemical name for Bis(2-Chloroiospropyl) ether is 2,2'-oxybis(1-chloropropane). The analytical uncertainty contribution to the expanded uncertainty for 3 and 4-Methylphenol is measured as the total of the two analytes. N-Nitrosodiphenylamine presents as Diphenylamine at 854 µg/mL.

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Supelco®

www.sigmaaldrich.com

Certificate of Composition - Analytical Standard

BASE STOCK

Product no.: 22523051
Lot no.: LRAD2751
Expiry Date: June 2024
Manufacturing Date: June 2022
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD2751.01 (*Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

Analyte	*Assigned Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
3,3'-DICHLOROBENZIDINE, 100MG, NEAT CAS# 91-94-1	799	µg/mL	99.8	LRAD2376
2,4-DINITROTOLUENE CAS# 121-14-2	801	µg/mL	97.8	LB46632
2,6-DINITROTOLUENE CAS# 606-20-2	800	µg/mL	99.2	11231AN
HEXACHLOROCYCLOPENTADIENE CAS# 77-47-4	800	µg/mL	96.0	LB95525
N-NITROSODIMETHYLAMINE CAS# 62-75-9	800	µg/mL	95.0	2019-030598 5
PERYLENE CAS# 198-55-0	200	µg/mL	99.6	04101PG
ANILINE CAS# 62-53-3	800	µg/mL	99.9	LA41596
4-CHLOROANILINE CAS# 106-47-8	800	µg/mL	100.0	MKBZ6909V
2-NITROANILINE CAS# 88-74-4	799	µg/mL	99.9	07411KN
3-NITROANILINE CAS# 99-09-2	800	µg/mL	99.9	LC09264
4-NITROANILINE CAS# 100-01-6	800	µg/mL	99.9	15609AA
PYRIDINE (LOW WATER) CAS# 110-86-1	800	µg/mL	100.0	SHBJ9218

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Certificate issue date: 03 JUN 2022

Andy Ommen - QC Manager

Scott Stetler - QA Manager

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD2751.01	03 JUN 2022	Original Release Date

Disclaimer: The purchaser is required to determine the suitability of this product for any particular application. Sigma-Aldrich RTC makes no warranty of any kind, express or implied, other than its products meet all quality control standards set by Sigma-Aldrich RTC. We do not guarantee that the product can be used for any particular application.

Supelco®

www.sigmaaldrich.com

Certificate of Composition - Analytical Standard

ACID STOCK

Product no.: 22523046
Lot no.: LRAD2750
Expiry Date: June 2024
Manufacturing Date: June 2022
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD2750.01 (*Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

Analyte	*Assigned Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
2,4-DIMETHYLPHENOL CAS# 105-67-9	800	µg/mL	99.9	LB88935
2,4-DICHLOROPHENOL CAS# 120-83-2	800	µg/mL	100.0	BCBZ6787
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	801	µg/mL	99.9	JS00008
2,4-DINITROPHENOL CAS# 51-28-5	1799	µg/mL	66.9	STBJ5751
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	800	µg/mL	98.7	LB82983
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	800	µg/mL	100.0	BCCD4461
4-NITROPHENOL CAS# 100-02-7	800	µg/mL	100.0	MKCN1089
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	1800	µg/mL	100.0	BCBX5762
PENTACHLOROPHENOL CAS# 87-86-5	800	µg/mL	99.0	23614-01
BENZOIC ACID CAS# 65-85-0	1800	µg/mL	99.9	LC16514

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

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Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Certificate issue date: 03 JUN 2022

Andy Ommen - QC Manager

Scott Stetler - QA Manager

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD2750.01	03 JUN 2022	Original Release Date

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Certificate of Analysis

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Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL18939
Certification Date: September 7, 2022
Expiration Date: August 31, 2032

Aaron Dukes, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 3.812%
3,3'-Dichlorobenzidine	91-94-1	2000	± 1.419%

L001288
Benzidines std @2000ug/ml
Solvent / Lot: CL18939
Prep: 2/7/2023 by VS
Exp: 8/31/2032
Location: GC

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

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Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64631018 us

Certificate of Analysis

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101443
Lot Number: CL18741
Description: Aniline
Certification Date: July 21, 2022
Storage: 4 °C
Expiration Date: July 31, 2030
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Aaron Dukes, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aniline	62-53-3	1000	± 1.719%

L001290
Anline-1000ug/mL
Solvent / Lot: CL18741
Prep: 2/7/2023 by VS
Exp: 7/31/2030
Location: GC

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

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Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

II.6459.018.us

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18811
Certification Date: August 9, 2022
Expiration Date: November 30, 2023

Aaron Dukes, Certified Reference Materials Manager

L001291
SVOA-8270 LCS MIX 1000ug/ml
Solvent / Lot: CL18811
Prep: 2/7/2023 by VS
Exp: 11/30/2023
Location: FREEZER 44

Component	CAS #	µg/mL	Expanded Uncertainty
Acenaphthene	83-32-9	1000	± 1.643%
Acenaphthylene	208-96-8	1000	± 1.317%
Anthracene	120-12-7	1000	± 2.136%
Azobenzene	103-33-3	1000	± 1.630%
Benzo(a)anthracene	56-55-3	1000	± 2.372%
Benzo(a)pyrene	50-32-8	1000	± 3.028%
Benzo(b)fluoranthene	205-99-2	1000	± 2.377%
Benzo(k)fluoranthene	207-08-9	1000	± 2.286%
Benzo(g,h,i)perylene	191-24-2	1000	± 2.561%
Benzyl alcohol	100-51-6	1000	± 1.803%
Benzyl butyl phthalate	85-68-7	1000	± 1.855%
bis(2-Chloroethoxy)methane	111-91-1	1000	± 1.626%
bis(2-Chloroethyl) ether	111-44-4	1000	± 1.776%
bis(2-Chloroisopropyl) ether	108-60-1	1000	± 2.406%
bis(2-Ethylhexyl) adipate	103-23-1	1000	± 2.415%
bis(2-Ethylhexyl) phthalate	117-81-7	1000	± 2.350%
4-Bromophenyl phenyl ether	101-55-3	1000	± 1.708%
Carbazole	86-74-8	1000	± 1.844%

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18811
Certification Date: August 9, 2022
Expiration Date: November 30, 2023

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
4-Chloroaniline	106-47-8	1000	± 2.831%
4-Chloro-3-methylphenol	59-50-7	1000	± 1.571%
2-Chloronaphthalene	91-58-7	1000	± 2.022%
2-Chlorophenol	95-57-8	1000	± 2.001%
4-Chlorophenyl phenyl ether	7005-72-3	1000	± 1.634%
Chrysene	218-01-9	1000	± 2.358%
Dibenz(a,h)anthracene	53-70-3	1000	± 2.452%
Dibenzofuran	132-64-9	1000	± 0.310%
Di-n-butyl phthalate	84-74-2	1000	± 2.347%
1,2-Dichlorobenzene	95-50-1	1000	± 1.803%
1,3-Dichlorobenzene	541-73-1	1000	± 1.808%
1,4-Dichlorobenzene	106-46-7	1000	± 1.503%
2,4-Dichlorophenol	120-83-2	1000	± 1.393%
Diethyl phthalate	84-66-2	1000	± 1.870%
2,4-Dimethylphenol	105-67-9	1000	± 2.495%
Dimethyl phthalate	131-11-3	1000	± 2.113%
1,2-Dinitrobenzene	528-29-0	1000	± 0.240%
1,3-Dinitrobenzene	99-65-0	1000	± 1.221%
1,4-Dinitrobenzene	100-25-4	1000	± 0.246%
2,4-Dinitrophenol	51-28-5	1000	± 0.519%
2,4-Dinitrotoluene	121-14-2	1000	± 2.242%

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Lot Number: CL18811
Description: 8270 Calibration Standard
Certification Date: August 9, 2022
Storage: -18 °C
Expiration Date: November 30, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2,6-Dinitrotoluene	606-20-2	1000	± 2.154%
Di-n-octyl phthalate	117-84-0	1000	± 2.670%
Fluoranthene	206-44-0	1000	± 2.103%
Fluorene	86-73-7	1000	± 0.890%
Hexachlorobenzene	118-74-1	1000	± 1.210%
Hexachlorobutadiene	87-68-3	1000	± 1.304%
Hexachlorocyclopentadiene	77-47-4	1000	± 1.510%
Hexachloroethane	67-72-1	1000	± 3.281%
Indeno(1,2,3-cd)pyrene	193-39-5	1000	± 1.921%
Isophorone	78-59-1	1000	± 2.022%
2-Methyl-4,6-dinitrophenol	534-52-1	1000	± 1.661%
1-Methylnaphthalene	90-12-0	1000	± 1.929%
2-Methylnaphthalene	91-57-6	1000	± 2.220%
2-Methylphenol	95-48-7	1000	± 2.168%
3-Methylphenol	108-39-4	500	± 1.025%
4-Methylphenol	106-44-5	500	± 1.064%
Naphthalene	91-20-3	1000	± 1.199%
2-Nitroaniline	88-74-4	1000	± 1.874%
3-Nitroaniline	99-09-2	1000	± 2.146%
4-Nitroaniline	100-01-6	1000	± 0.300%
Nitrobenzene	98-95-3	1000	± 1.704%

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18811
Certification Date: August 9, 2022
Expiration Date: November 30, 2023

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2-Nitrophenol	88-75-5	1000	± 2.051%
4-Nitrophenol	100-02-7	1000	± 1.413%
N-Nitrosodimethylamine	62-75-9	1000	± 0.545%
N-Nitrosodiphenylamine	86-30-6	1000	± 1.669%
N-Nitrosodi-n-propylamine	621-64-7	1000	± 0.712%
Pentachlorophenol	87-86-5	1000	± 2.454%
Phenanthrene	85-01-8	1000	± 2.072%
Phenol	108-95-2	1000	± 2.140%
Pyrene	129-00-0	1000	± 1.869%
Pyridine	110-86-1	1000	± 0.545%
2,3,4,6-Tetrachlorophenol	58-90-2	1000	± 2.552%
2,3,5,6-Tetrachlorophenol	935-95-5	1000	± 2.220%
1,2,4-Trichlorobenzene	120-82-1	1000	± 1.632%
2,4,5-Trichlorophenol	95-95-4	1000	± 1.596%
2,4,6-Trichlorophenol	88-06-2	1000	± 0.481%

Notes: The proper chemical name for Bis(2-Chloroiospropyl) ether is 2,2'-oxybis(1-chloropropane). The analytical uncertainty contribution to the expanded uncertainty for 3 and 4-Methylphenol is measured as the total of the two analytes. N-Nitrosodiphenylamine presents as Diphenylamine at 854 µg/mL.

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SS1026

ORGANIC ANALYSIS DATA SHEET
EPA 8081B

Laboratory:	Analytical Resources, LLC			SDG:	23C0752
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23C0752-01 A	File ID:	23041242.D
Sampled:	03/30/23 10:37	Prepared:	04/03/23 11:42	Analyzed:	04/13/23 03:12
% Solids:	50.24	Preparation:	EPA 3546 (Microwave)	Initial/Final:	24.89 g Wet / 2.5 mL
Batch:	BLD0009	Sequence:	SLD0187	Calibration:	GD00035
Instrument:	ECD6	Column 1:	STX-CLP	Column 2:	STX-CLPII

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
118-74-1	Hexachlorobenzene	1	1	4.49	0.14	0.50	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9970*	*5.88*	*73.5*	*30 - 160*	
Decachlorobiphenyl	*2*	*7.9970*	*6.69*	*83.6*	*30 - 160*	
Tetrachlorometaxylene	*1*	*7.9970*	*4.90*	*61.3*	*30 - 160*	
Tetrachlorometaxylene	*2*	*7.9970*	*4.85*	*60.6*	*30 - 160*	

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041242.D
Data file 2: /20230412.b/B20230412.b/23041242.D
Method: \20230412.b\PEST.m
Compound Sublist: wpest.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: 23C0752-01
Client ID:
Injection Date: 13-APR-2023 03:12
Report Date: 04/14/2023 08:21
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.332	-0.001	47504	4.778	0.016	9582	2.09	0.32	147.3*	alpha-BHC
4.714	-0.003	8971	5.222	-0.008	2515	0.99	0.21	130.0*	beta-BHC
4.891	-0.010	60313	5.572	-0.005	2462	2.94	0.09	187.9*	delta-BHC M
4.639	0.002	26921	5.150	-0.002	6864	1.35	0.26	135.6*	gamma-BHC (Lindane) M
5.110	-0.014	35151	5.683	0.011	54323	1.90	2.34	20.4	Heptachlor
5.467	0.019	105168	----			5.60	0.00	---	Aldrin
----			6.708	-0.021	261839	0.00	12.32	---	Heptachlor epoxide b
----			7.161	-0.011	17405	0.00	0.96	---	Endosulfan I
6.811	-0.017	154187	7.449	-0.017	82253	9.65	4.15	79.8*	Dieldrin
6.483	-0.006	183881	7.255	-0.002	80750	12.20	4.28	96.2*	4,4'-DDE
7.103	0.025	203909	----			16.21	0.00	---	Endrin
7.292	-0.022	20443	8.010	0.009	148040	1.74	10.15	141.6*	Endosulfan II
7.150	0.014	26545	----			2.35	0.00	---	4,4'-DDD
8.169	-0.008	12133	----			1.09	0.00	---	Endosulfan sulfate
7.427	-0.004	179288	8.187	0.006	597621	14.74	41.99	96.1*	4,4'-DDT M
7.948	0.028	46124	----			8.85	0.00	---	Methoxychlor
8.425	-0.027	62192	9.132	0.013	91685	4.91	6.25	24.1	Endrin ketone N
7.735	-0.008	14702	8.325	-0.006	80753	1.64	7.66	129.6*	Endrin aldehyde M
----			6.943	0.004	27222	0.00	1.34	---	trans-Chlordane
6.433	0.020	110345	7.098	-0.002	18336	6.63	0.91	151.5*	cis-Chlordane
2.287	-0.022	18483	2.423	-0.030	117174	0.79	4.28	137.7*	Hexachlorobutadiene
4.173	-0.002	450946	4.621	-0.001	586526	22.46	22.27	0.8	Hexachlorobenzene
----			----			0.00	0.00	---	Oxychlordane
----			6.907	-0.014	217287	0.00	18.30	---	2,4-DDE
----			7.025	-0.014	100902	0.00	6.25	---	trans-Nonachlor
6.661	-0.020	63863	----			8.63	0.00	---	2,4-DDD
6.976	0.018	18572	7.819	0.020	263791	2.08	24.02	168.1*	2,4-DDT
7.115	0.003	146511	7.861	0.002	86590	10.90	5.19	71.0*	cis-Nonachlor M
8.074	-0.012	192215	9.076	-0.025	25257	23.18	2.62	159.4*	Mirex
1.793	0.019	3966	1.669	-0.007	59165	0.00	0.00	---	Hexachloroethane
6.614	0.026	252864	7.356	0.020	58530	0.00	0.00	---	Kepone
3.818	-0.001	355946	4.135	-0.001	474158	24.51	24.26	1.1	Tetrachloro-m-xylene
9.367	0.001	252476	10.306	0.000	309488	29.40	33.44	12.9	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	1037697	20.1
Hexabromobiphenyl	663237	728047	9.8

Column 2

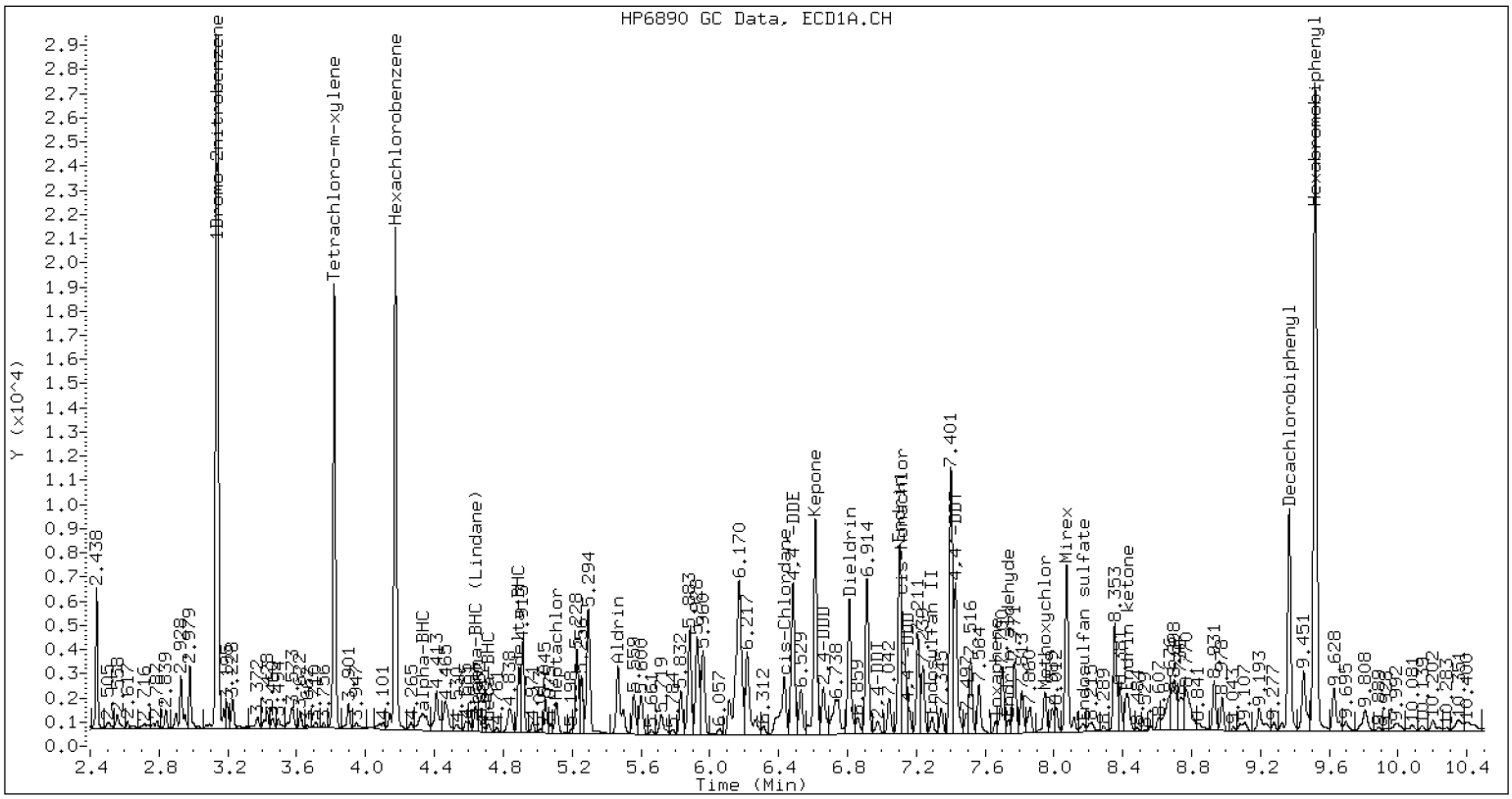
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1421546	-4.0
Hexabromobiphenyl	870561	766795	-11.9

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Toxaphene	1	7.427	-0.003	179288	665.5	1	7.449	0.009	82253	333.2	
Toxaphene	2	7.659	0.007	12242	33.9	2	8.080	-0.003	37385	51.3	
Toxaphene	3	8.074	-0.005	192215	390.9	3	8.325	-0.011	80753	141.9	
Toxaphene	4	8.425	-0.007	62192	160.4	4	8.856	0.017	35125	57.5	
Toxaphene	5	---			0.000	5	9.185	-0.025	39504	118.0	
Total STX-CLPAve (4 peaks): 312.705						Total CLP2Ave (5 peaks): 140.393				RPD = 76*	
Corrected Ave (3 peaks): 195.096						Corrected Ave (4 peaks): 92.193				RPD = 72*	

		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Chlordane (NOS)	1	---			0.000	1	---			0.000	
Chlordane (NOS)	2	---			0.000	2	---			0.000	
Chlordane (NOS)	3	---			0.000	3	---			0.000	
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks					

/20230412.b/23041242.D 23C0752-01 STX-CLP 13-APR-2023 03:12 1ul



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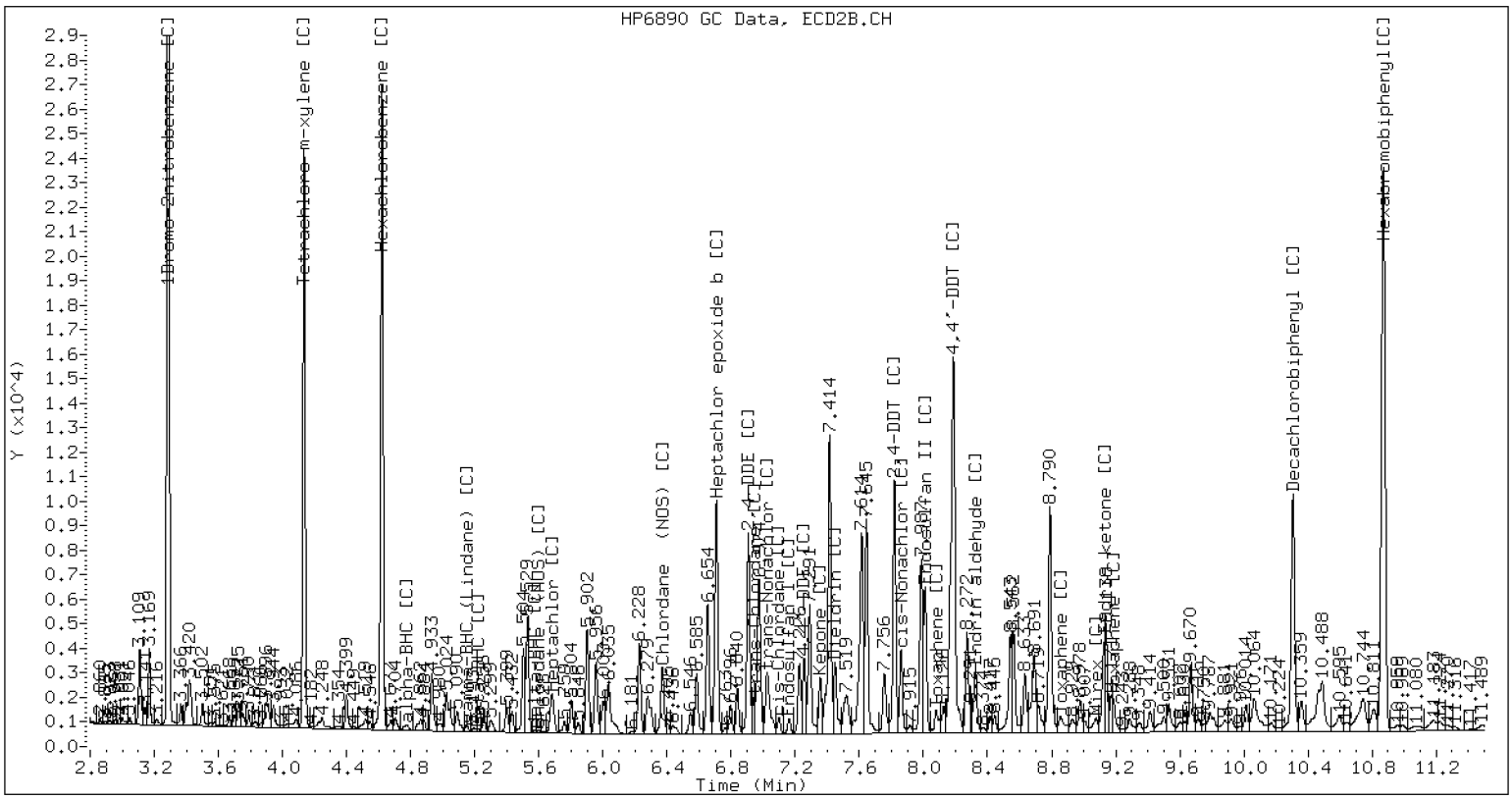
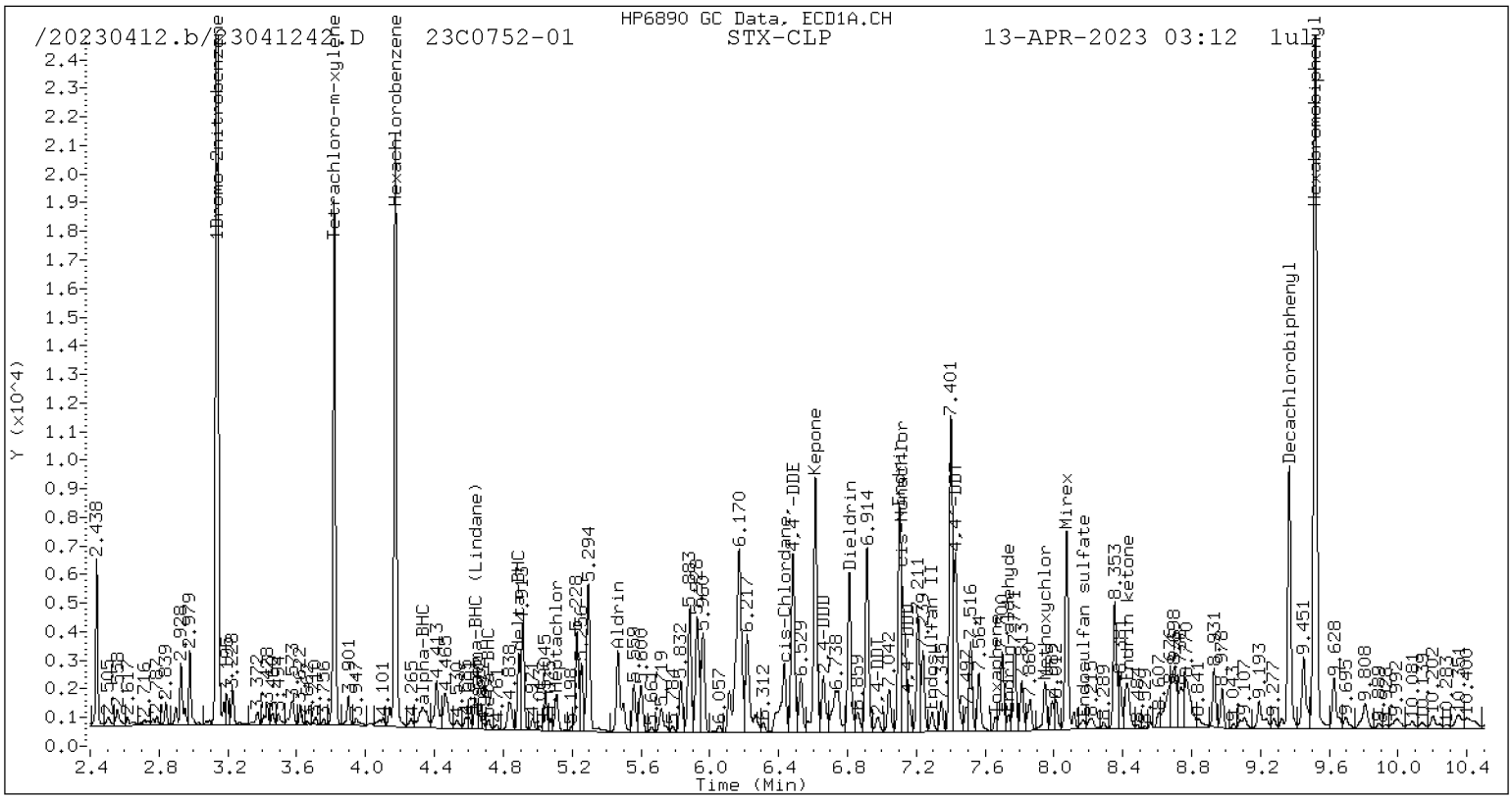
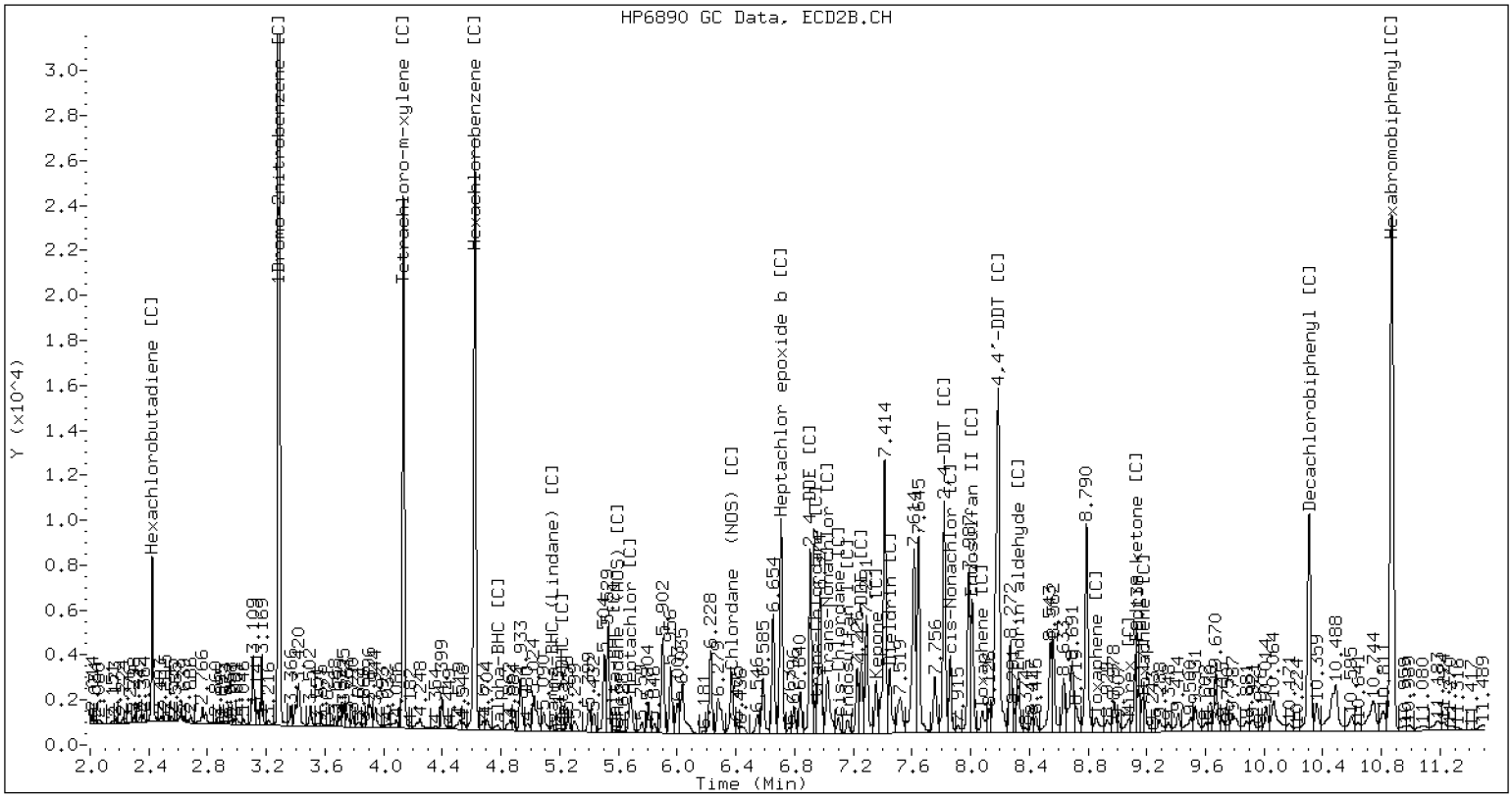


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

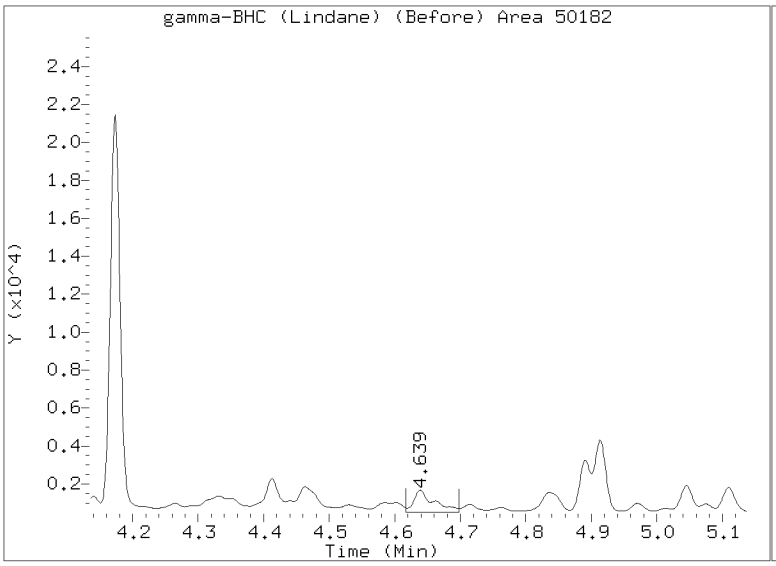
/20230412.b/B20230412.b/23041242.D 23C0752-01 CLP2

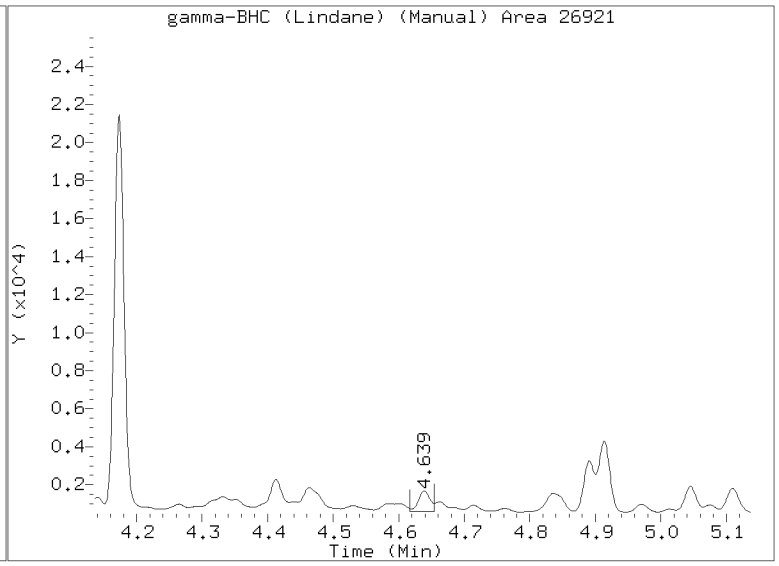


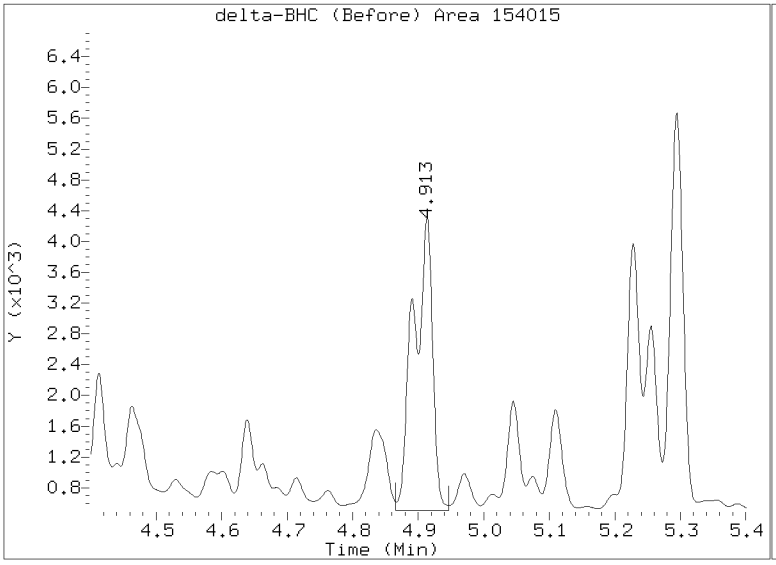
CLP-2 Manual Integration: YES

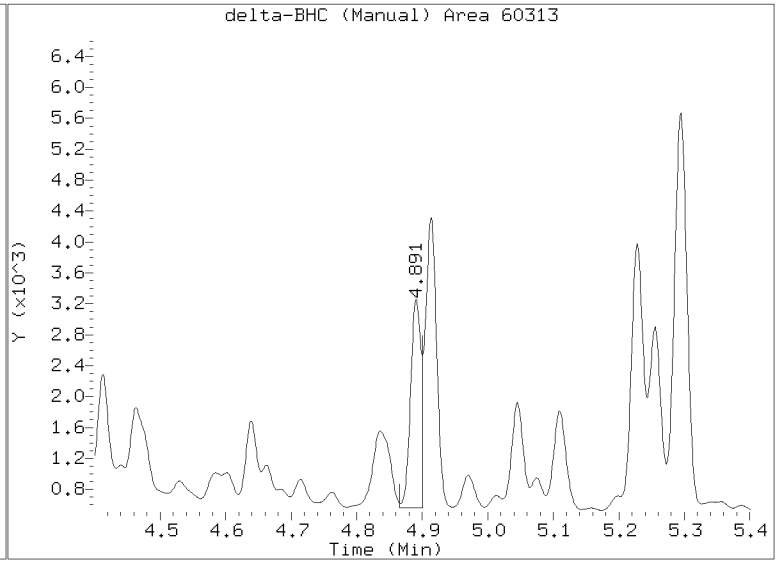
Manual Peak Adjustment Report, STX-CLP

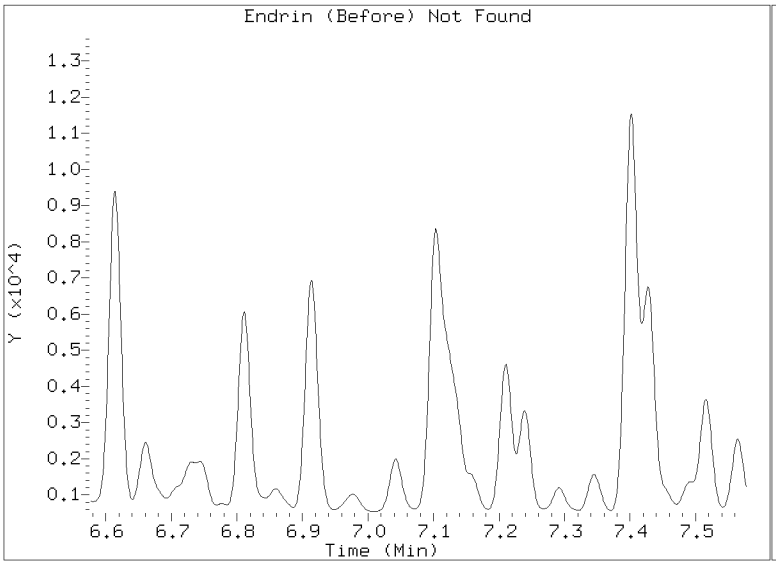
Datafile: /20230412.b/23041242.D
Injection Date: 13-APR-2023 03:12
Lab ID:23C0752-01 Client ID:
Report Date: 04/14/2023 08:21

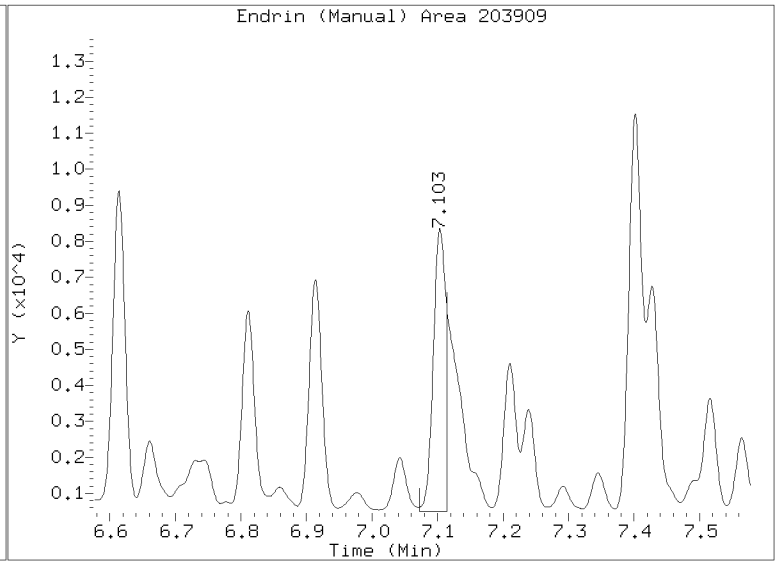












Manual Peak Adjustment Report, STX-CLP

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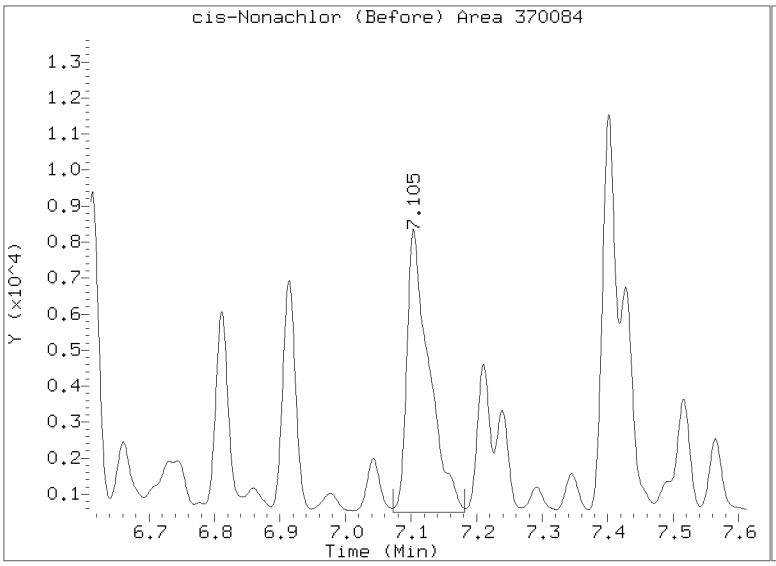
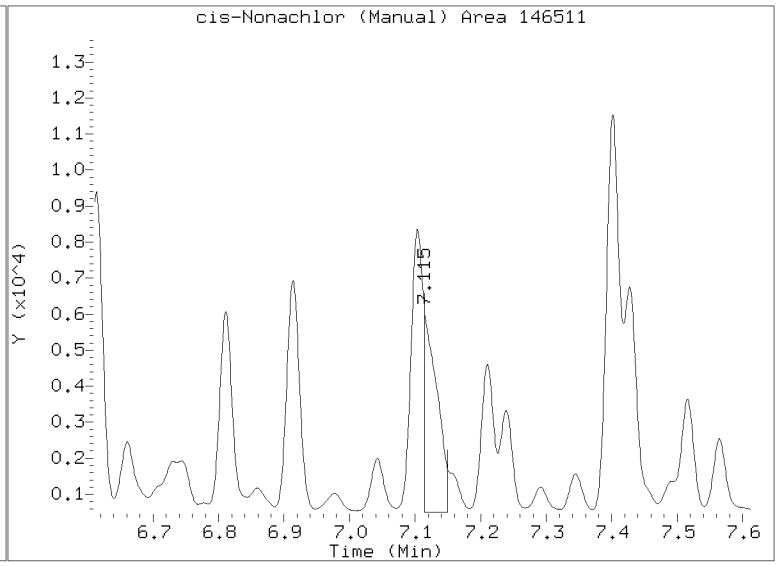
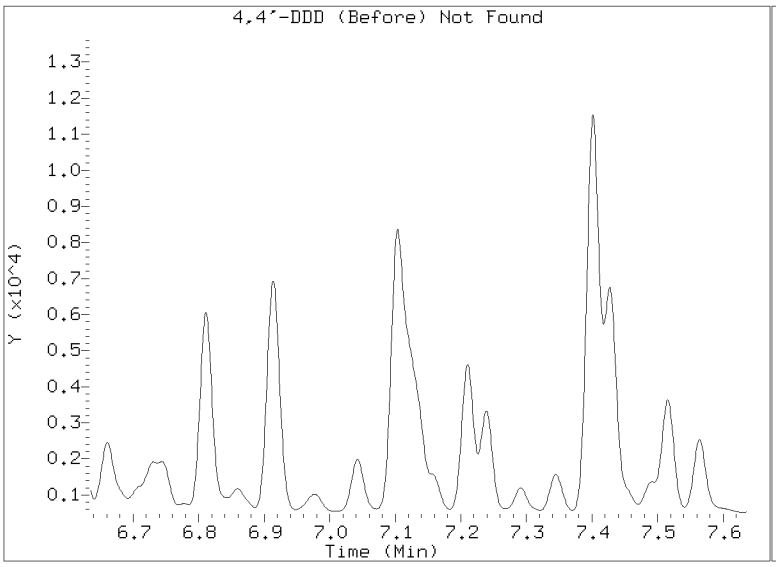
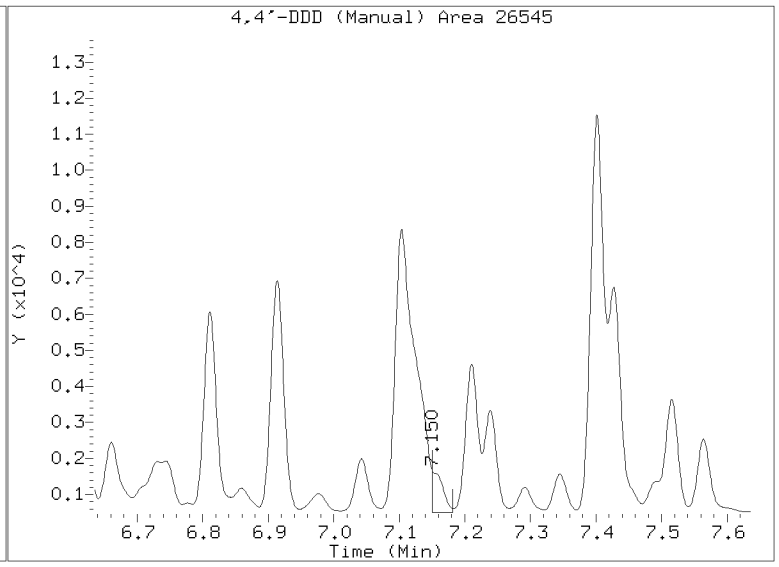
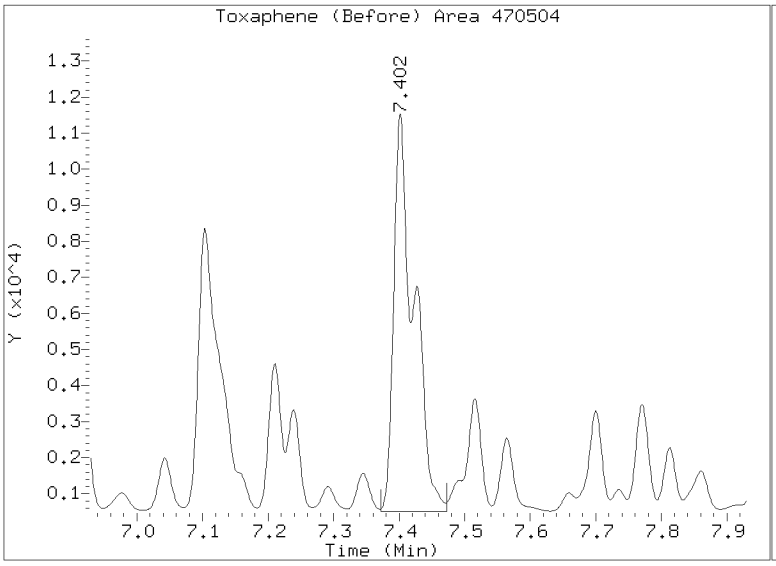
Injection Date: 13-APR-2023 03:12
Lab ID:23C0752-01 Client ID:
Report Date: 04/14/2023 08:21

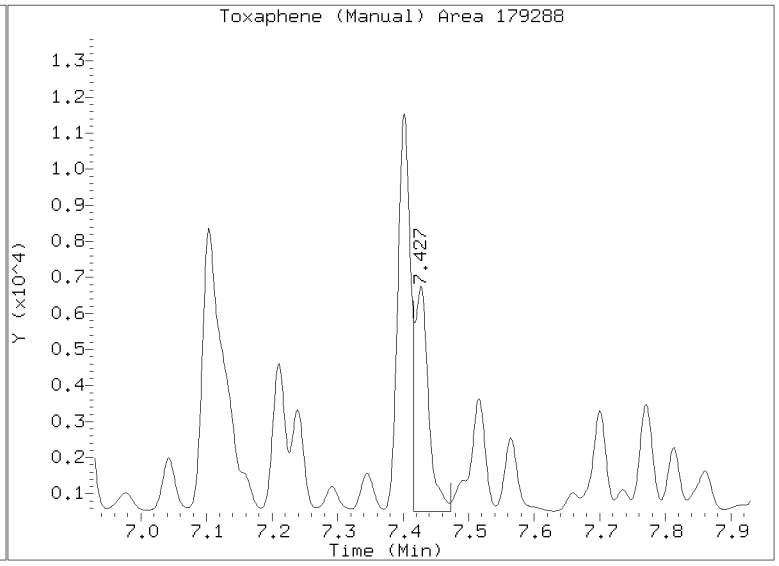






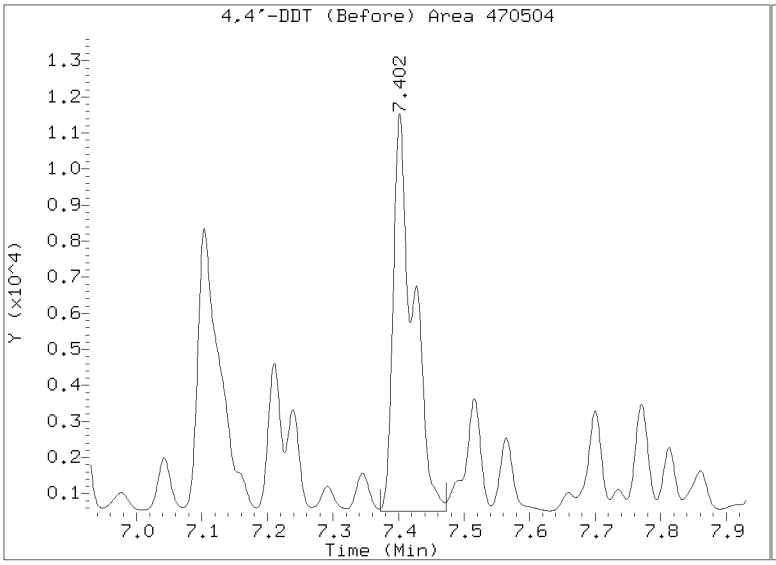


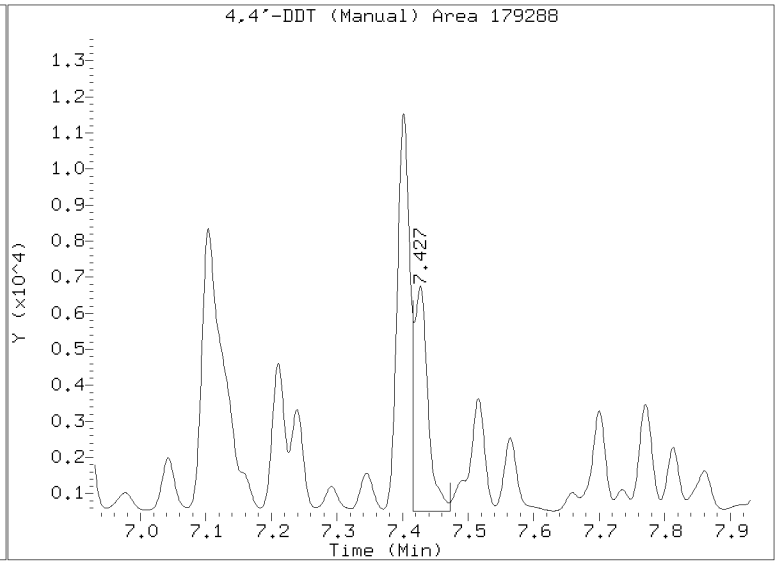


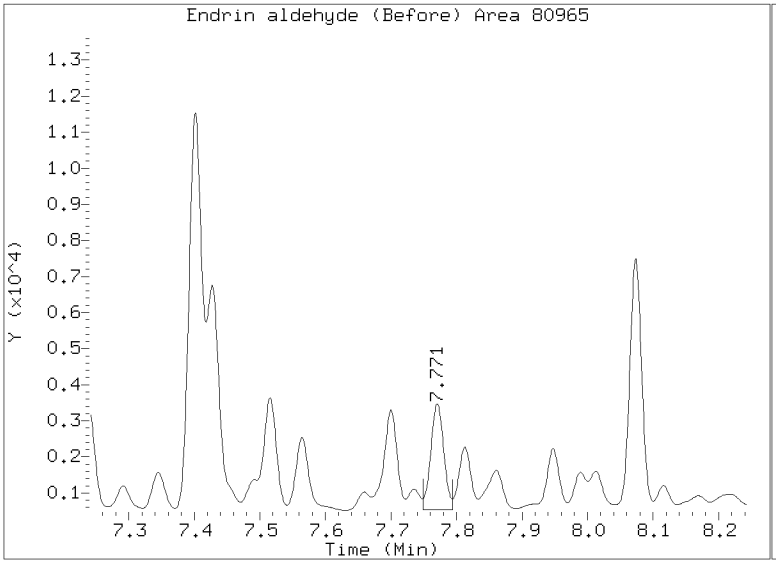


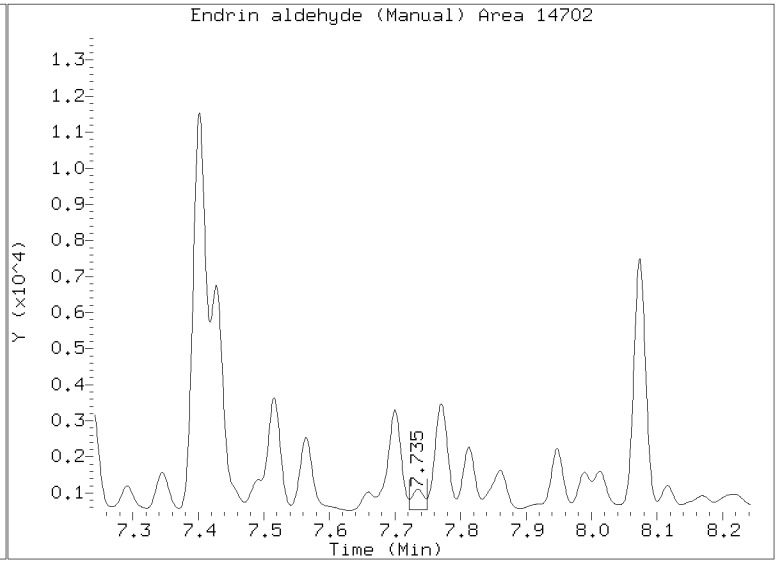
Manual Peak Adjustment Report, STX-CLP

Datafile: /20230412.b/23041242.D
Injection Date: 13-APR-2023 03:12
Lab ID:23C0752-01 Client ID:
Report Date: 04/14/2023 08:21









Manual Peak Adjustment Report, CLP-2

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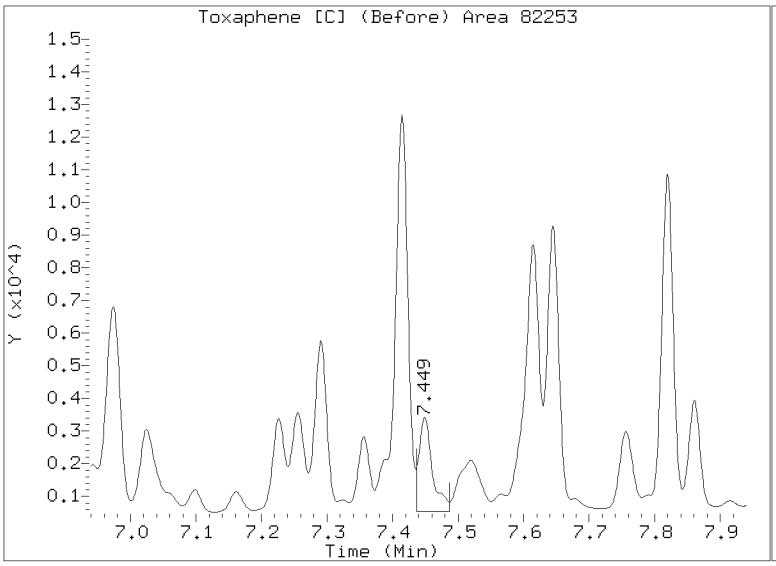
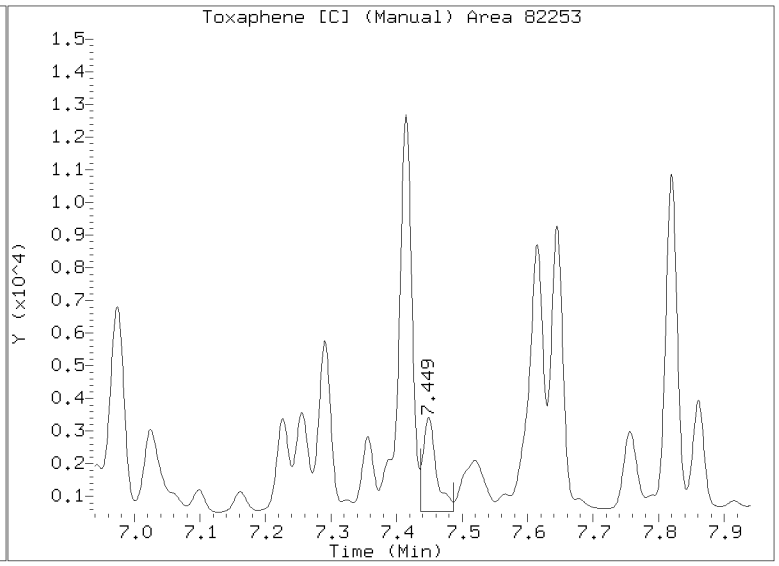
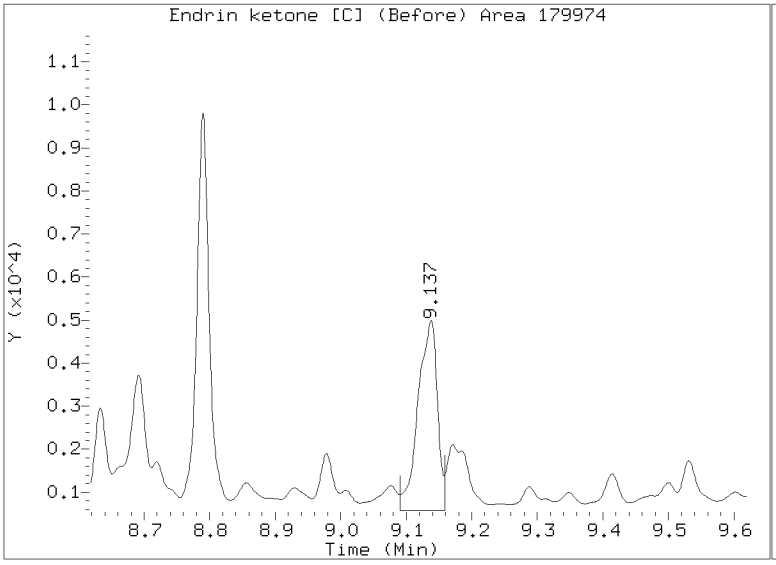
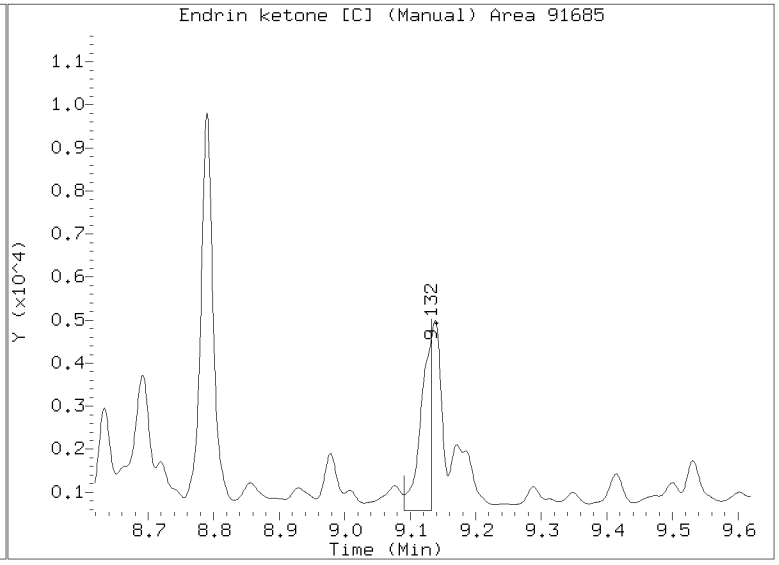
Injection Date: 13-APR-2023 03:12
Lab ID:23C0752-01 Client ID:









Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SS1125

ORGANIC ANALYSIS DATA SHEET
EPA 8081B

Laboratory:	Analytical Resources, LLC			SDG:	23C0752
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23C0752-02 A	File ID:	23041243.D
Sampled:	03/30/23 11:10	Prepared:	04/03/23 11:42	Analyzed:	04/13/23 03:30
% Solids:	49.66	Preparation:	EPA 3546 (Microwave)	Initial/Final:	25.17 g Wet / 2.5 mL
Batch:	BLD0009	Sequence:	SLD0187	Calibration:	GD00035
Instrument:	ECD6	Column 1:	STX-CLP	Column 2:	STX-CLPII

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
118-74-1	Hexachlorobenzene	1	1	0.50	0.15	0.50	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*8.0004*	*6.06*	*75.7*	*30 - 160*	
Decachlorobiphenyl	*2*	*8.0004*	*6.81*	*85.1*	*30 - 160*	
Tetrachlorometaxylene	*1*	*8.0004*	*5.24*	*65.5*	*30 - 160*	
Tetrachlorometaxylene	*2*	*8.0004*	*5.25*	*65.6*	*30 - 160*	

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041243.D
Data file 2: /20230412.b/B20230412.b/23041243.D
Method: \20230412.b\PEST.m
Compound Sublist: wpest.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: 23C0752-02
Client ID:
Injection Date: 13-APR-2023 03:30
Report Date: 04/14/2023 08:21
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.335	0.002	61029	4.777	0.015	9080	2.69	0.32	157.8*	alpha-BHC
----			5.256	0.026	14077	0.00	1.24	---	beta-BHC
4.913	0.012	123910	----			6.02	0.00	---	delta-BHC
4.639	0.002	48617	5.150	-0.002	3649	2.44	0.14	177.6*	gamma-BHC (Lindane)
5.110	-0.014	30388	5.682	0.011	48283	1.64	2.18	28.1	Heptachlor
5.467	0.019	87005	----			4.63	0.00	---	Aldrin
----			6.708	-0.021	233256	0.00	11.54	---	Heptachlor epoxide b
----			7.161	-0.011	13728	0.00	0.80	---	Endosulfan I
6.812	-0.016	138923	7.448	-0.018	73077	8.68	3.87	76.6*	Dieldrin
6.484	-0.005	163352	7.255	-0.002	79352	10.83	4.42	84.1*	4,4'-DDE
7.104	0.026	213081	----			18.06	0.00	---	Endrin
7.288	-0.026	27085	8.010	0.009	125336	2.45	9.17	115.7*	Endosulfan II
7.150	0.014	25623	----			2.42	0.00	---	4,4'-DDD
8.167	-0.010	11381	----			1.09	0.00	---	Endosulfan sulfate
7.416	-0.015	101689	8.189	0.008	328280	8.92	24.61	93.6*	4,4'-DDT MN
7.948	0.028	40162	----			8.22	0.00	---	Methoxychlor
8.424	-0.028	61438	9.129	0.010	64091	5.17	4.67	10.2	Endrin ketone N
7.771	0.028	75788	8.326	-0.005	64681	8.99	6.55	31.4	Endrin aldehyde
6.268	0.002	27249	----			1.64	0.00	---	trans-Chlordane
6.412	-0.001	14368	7.098	-0.002	16693	0.86	0.87	1.4	cis-Chlordane M
2.289	-0.020	52476	2.480	0.027	53444	2.24	2.05	8.8	Hexachlorobutadiene
----			----			0.00	0.00	---	Hexachlorobenzene
----			6.617	-0.007	10325	0.00	0.67	---	Oxychlordane
----			6.907	-0.014	192947	0.00	17.08	---	2,4-DDE
6.395	0.001	18326	7.025	-0.014	88723	1.52	5.86	117.8*	trans-Nonachlor M
6.660	-0.021	60266	----			8.68	0.00	---	2,4-DDD
6.976	0.017	16279	7.820	0.021	236267	1.95	22.96	168.8*	2,4-DDT
7.120	0.008	107432	7.861	0.002	85575	8.52	5.47	43.6*	cis-Nonachlor M
8.074	-0.012	174585	9.071	-0.030	6766	22.46	0.75	187.1*	Mirex
1.795	0.021	7919	1.669	-0.007	82207	0.00	0.00	---	Hexachloroethane
6.614	0.026	223740	7.356	0.020	48684	0.00	0.00	---	Kepone
3.818	-0.001	380761	4.135	-0.001	488283	26.19	26.26	0.2	Tetrachloro-m-xylene
9.367	0.001	243798	10.306	-0.000	295323	30.28	34.05	11.7	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	1038837	20.2
Hexabromobiphenyl	663237	682664	2.9

Column 2

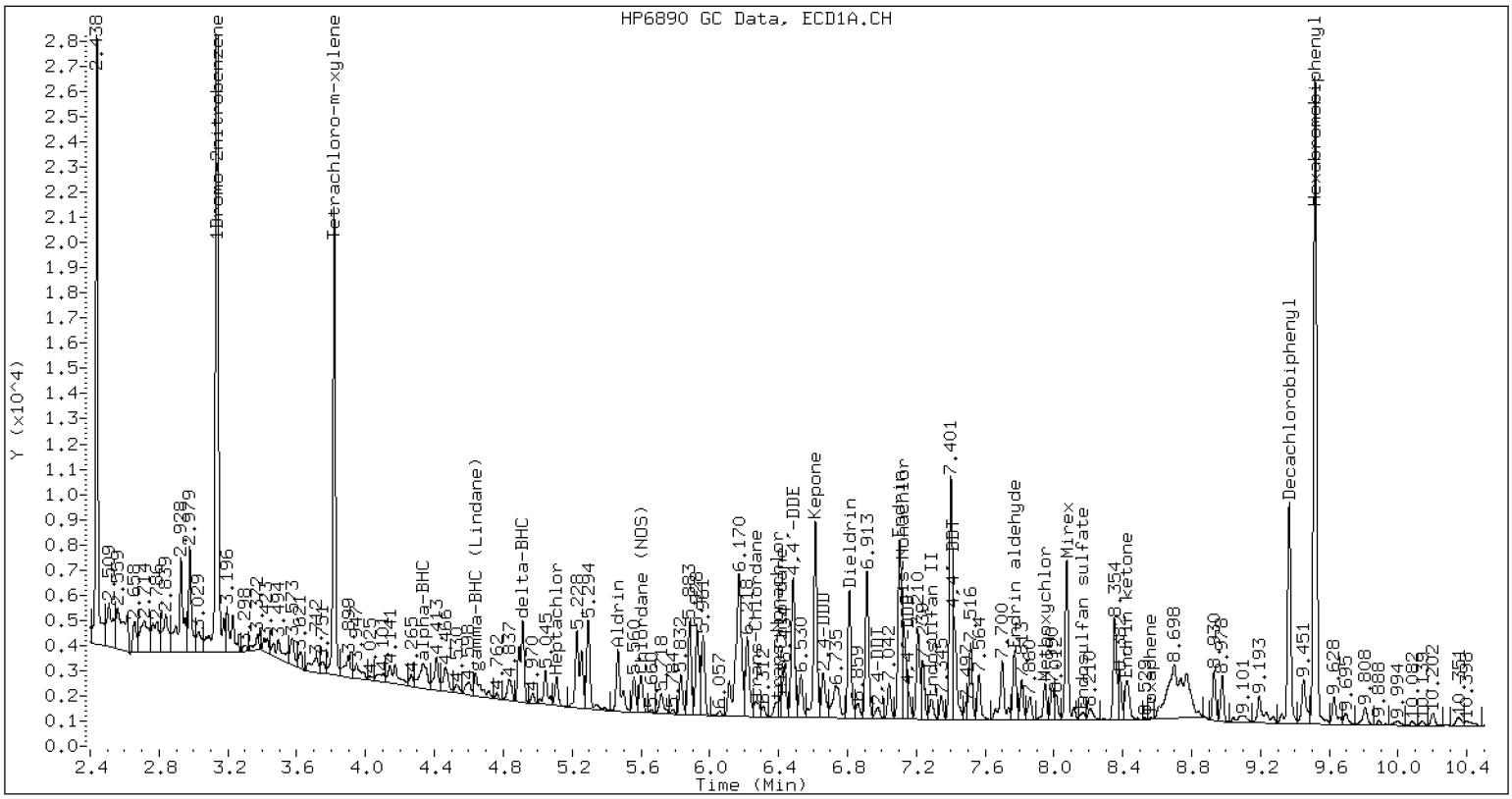
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1352290	-8.7
Hexabromobiphenyl	870561	718505	-17.5

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Toxaphene	1	7.416	-0.014	101689	402.6	1	7.448	0.008	73077	315.9	
Toxaphene	2	---			0.000	2	8.080	-0.003	24554	36.0	
Toxaphene	3	8.074	-0.005	174585	378.7	3	8.326	-0.010	64681	121.3	
Toxaphene	4	8.424	-0.008	61438	169.0	4	8.855	0.016	27649	48.3	
Toxaphene	5	8.562	-0.012	1857	8.5	5	---			0.0	
Total STX-CLPAve (4 peaks): 239.684						Total CLP2Ave (4 peaks): 130.377				RPD = 59*	
Corrected Ave (4 peaks): 239.684						Corrected Ave (3 peaks): 68.530				RPD = 111*	

		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Chlordane (NOS)	1	---			0.000	1	---			0.000	
Chlordane (NOS)	2	---			0.000	2	---			0.000	
Chlordane (NOS)	3	---			0.000	3	---			0.000	
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks					

/20230412.b/23041243.D 23C0752-02 STX-CLP 13-APR-2023 03:30 1ul



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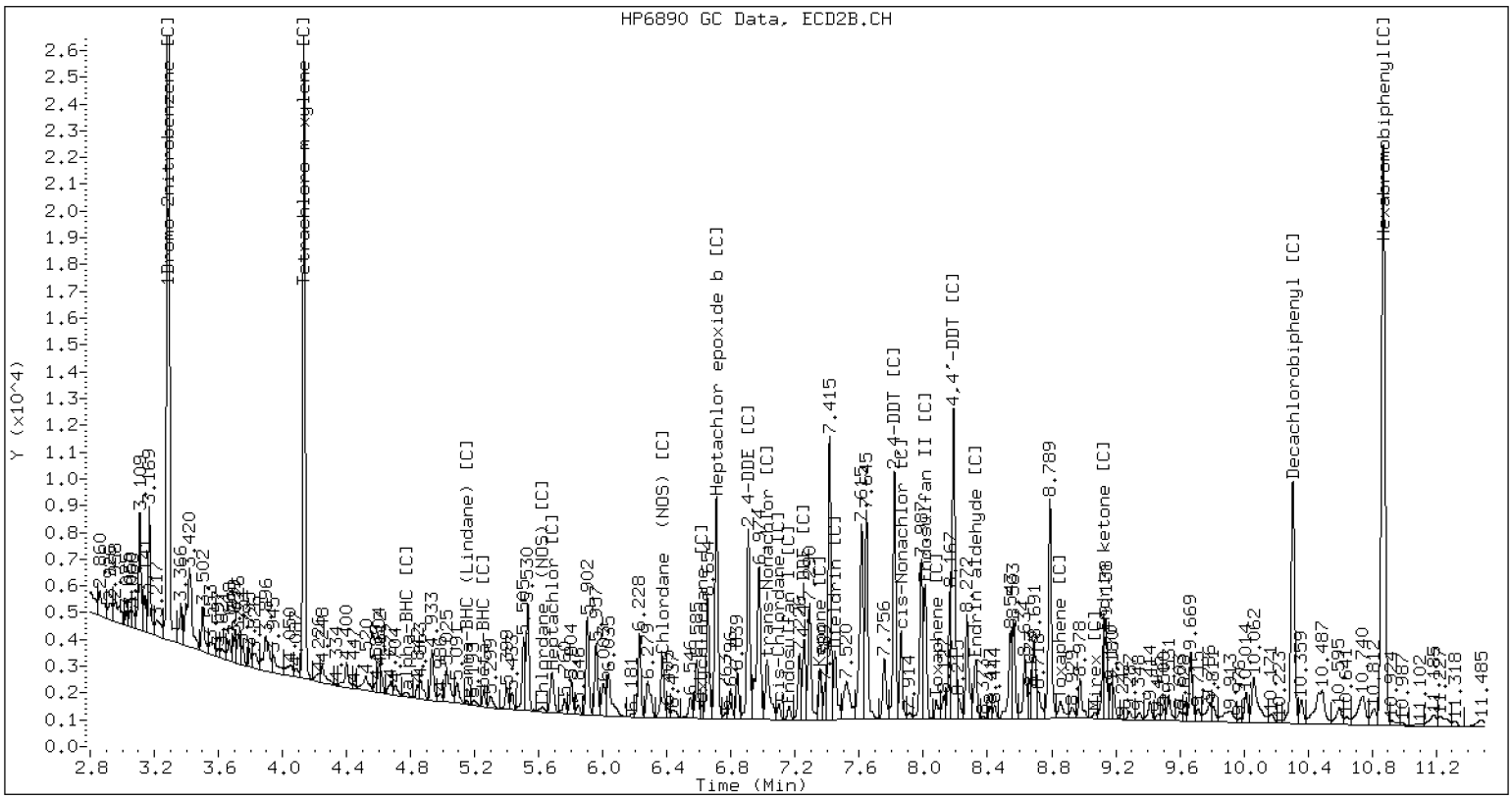
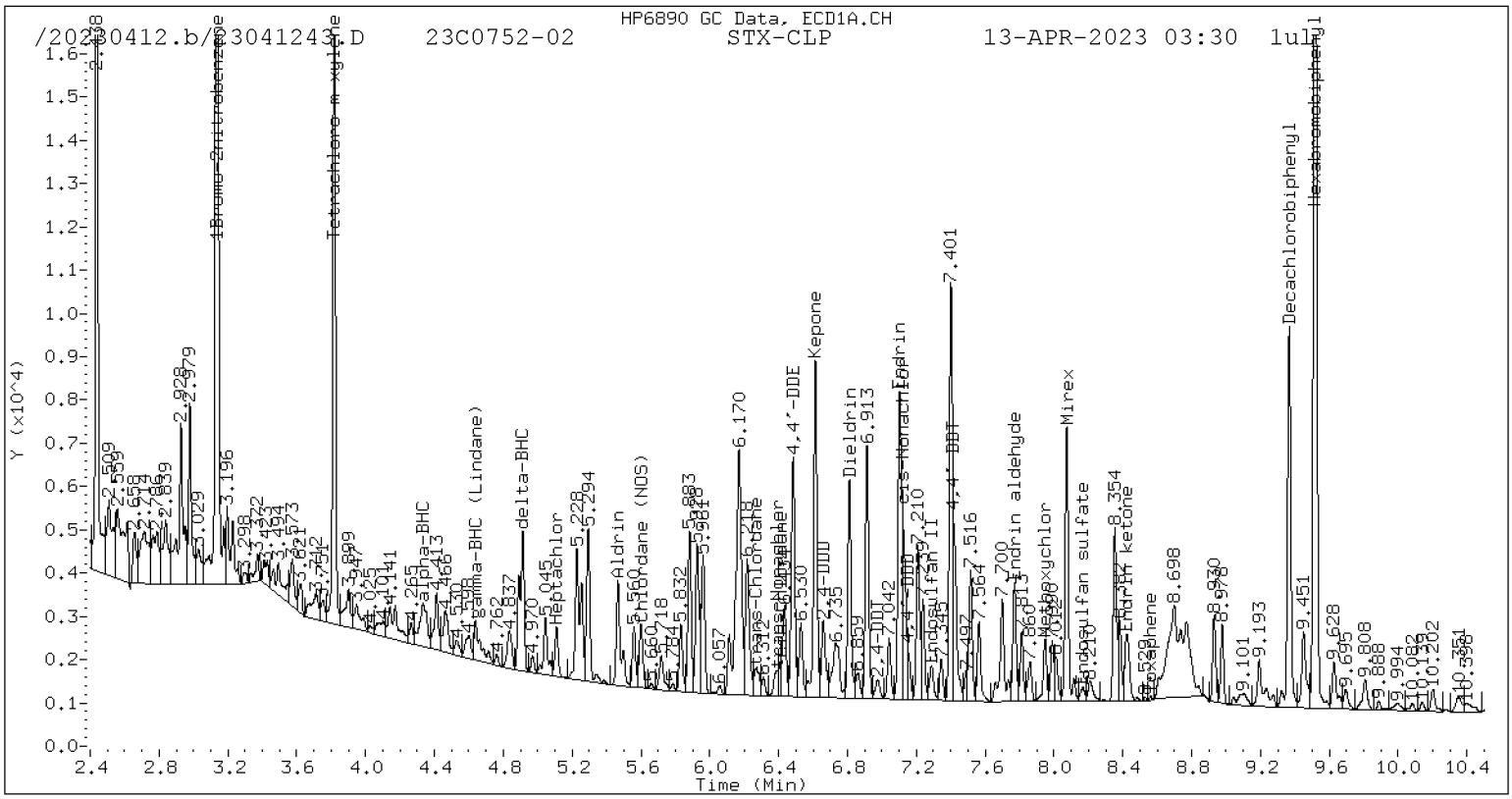
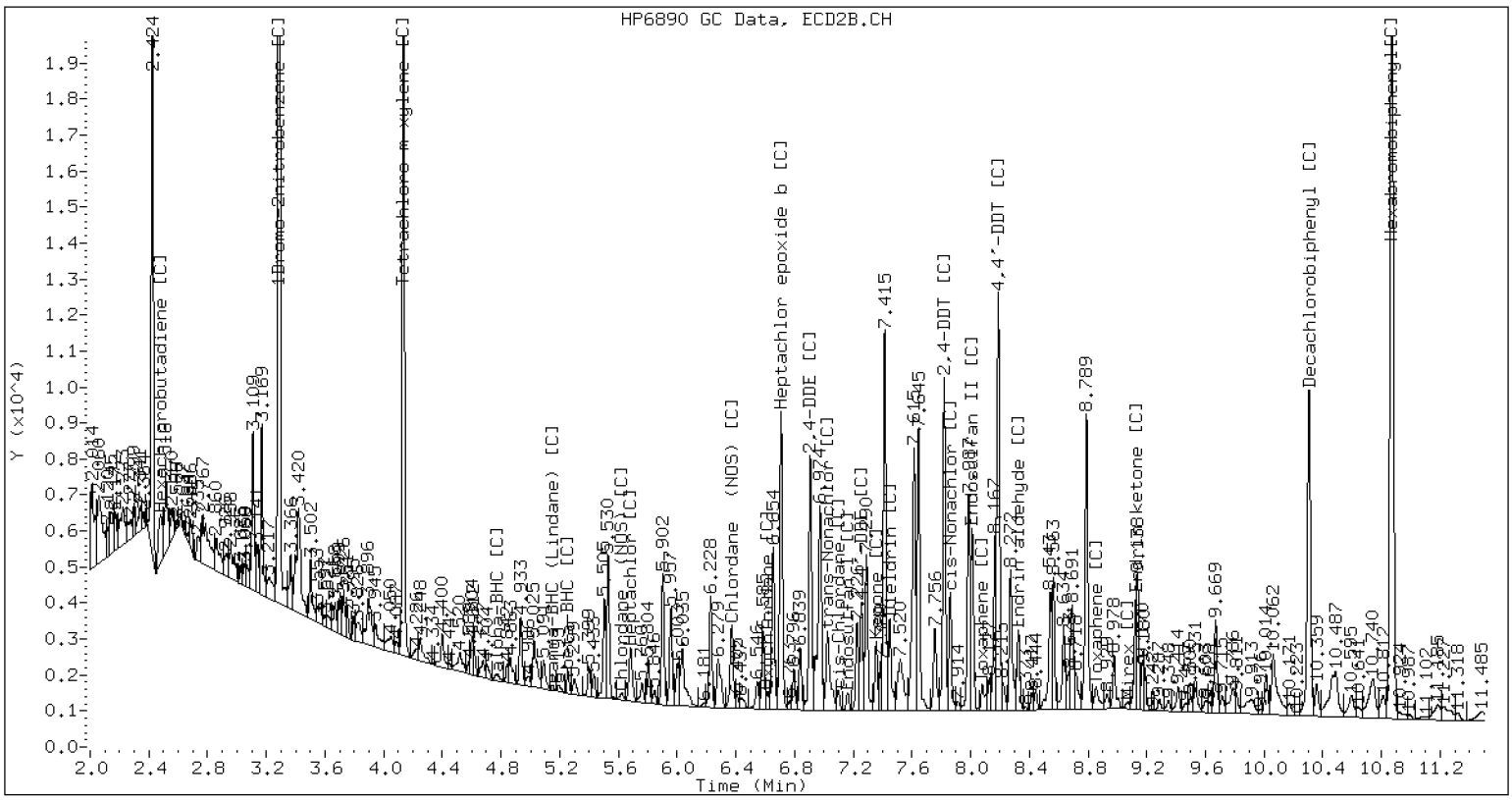


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

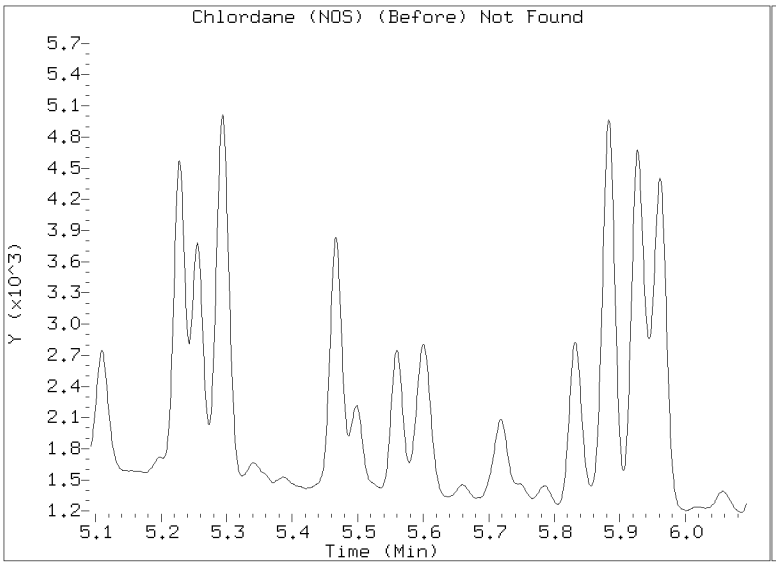
/20230412.b/B20230412.b/23041243.D 23C0752-02 CLP2

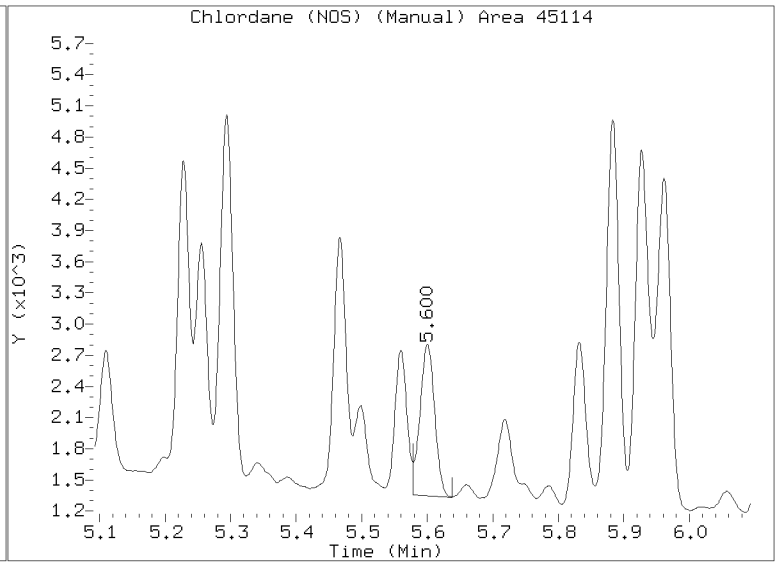


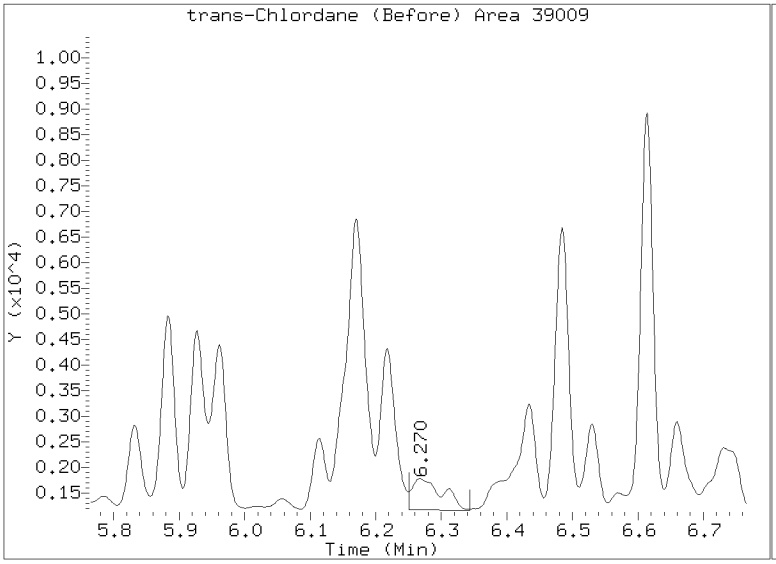
CLP-2 Manual Integration: YES

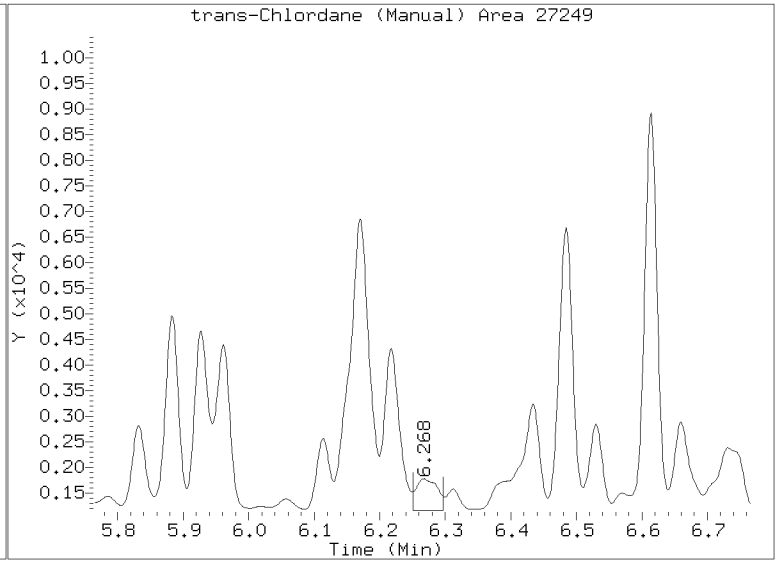
Manual Peak Adjustment Report, STX-CLP

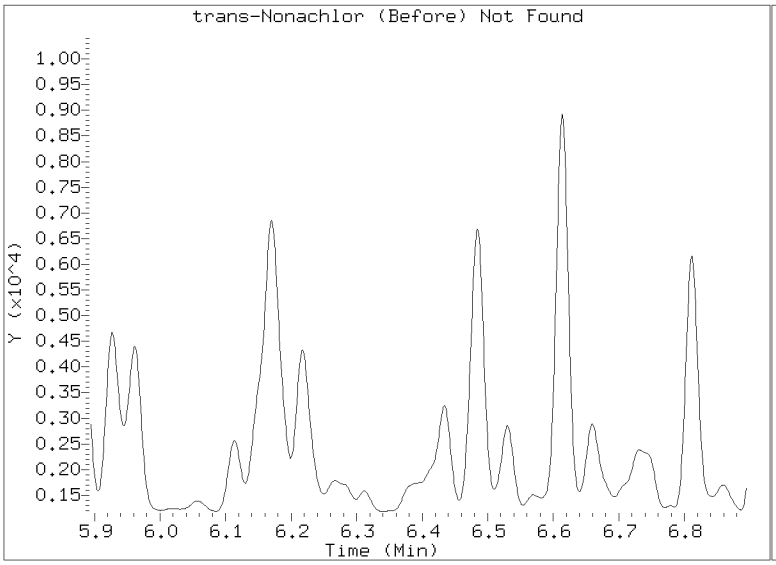
Datafile: /20230412.b/23041243.D
Injection Date: 13-APR-2023 03:30
Lab ID:23C0752-02 Client ID:
Report Date: 04/14/2023 08:21

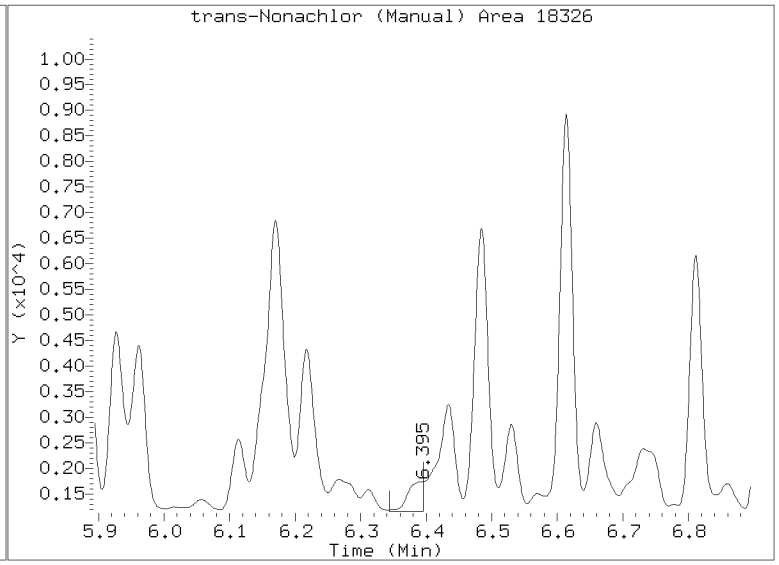






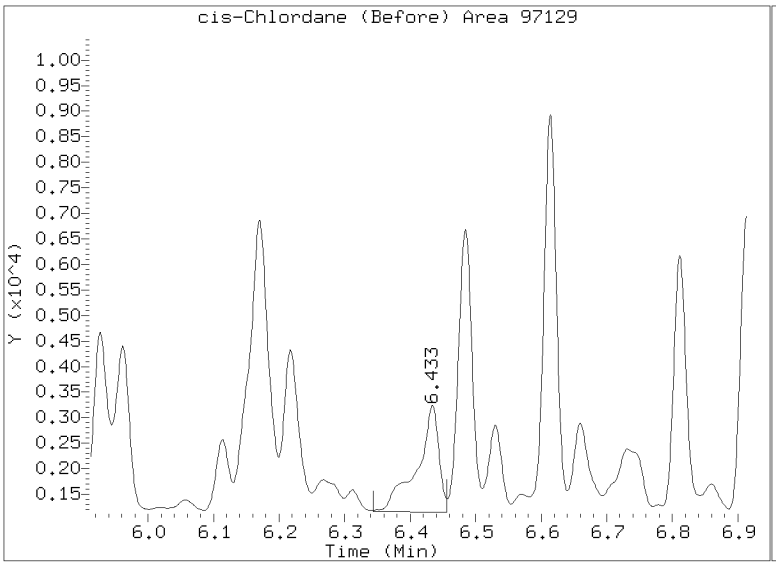


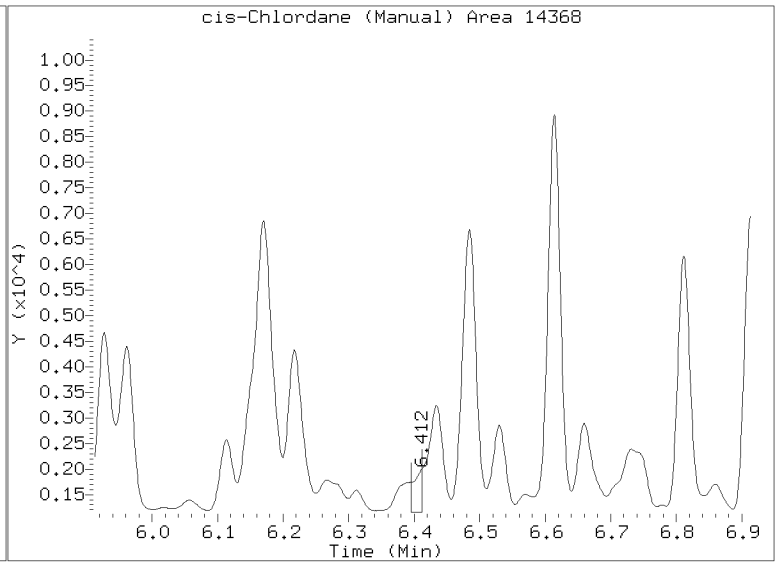


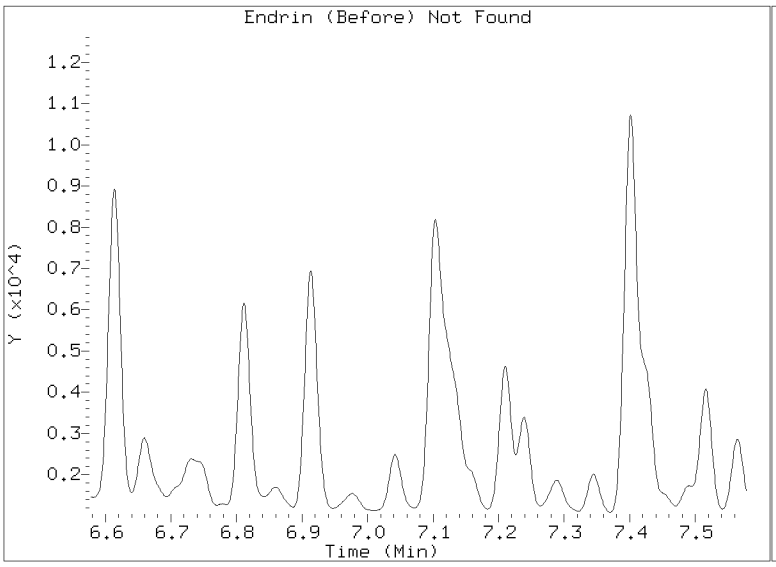


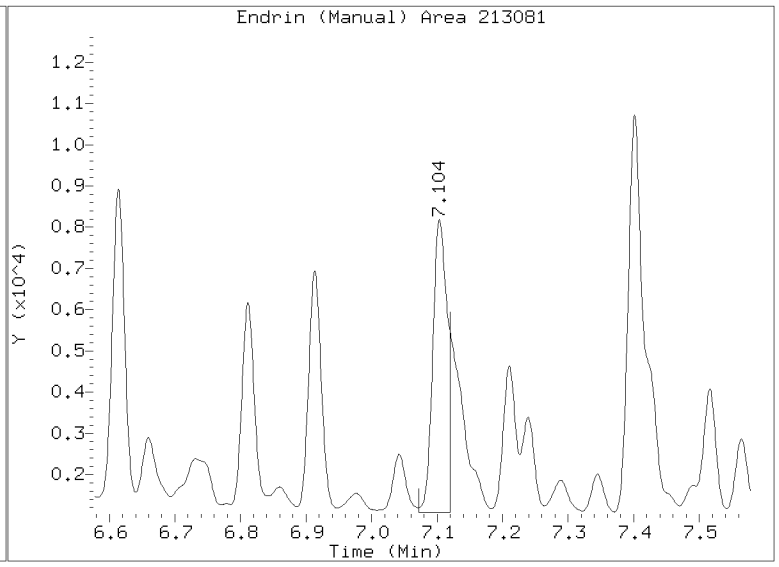
Manual Peak Adjustment Report, STX-CLP

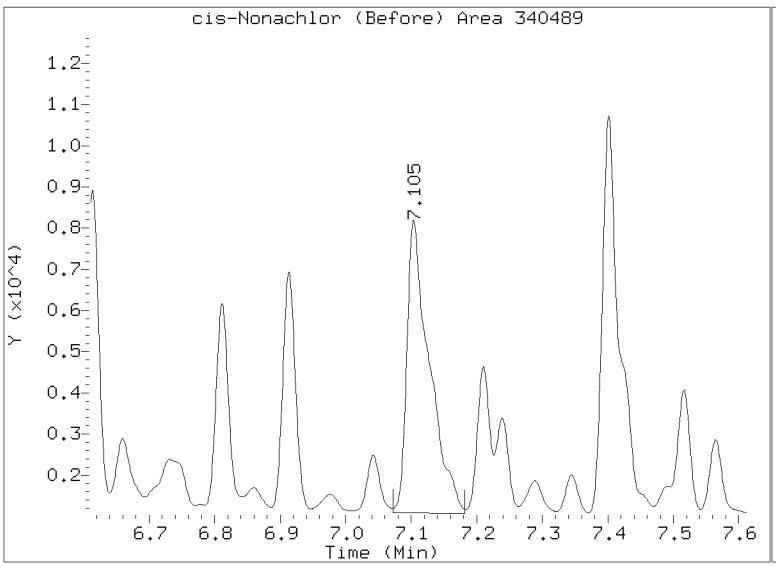
Datafile: /20230412.b/23041243.D
Injection Date: 13-APR-2023 03:30
Lab ID:23C0752-02 Client ID:
Report Date: 04/14/2023 08:21

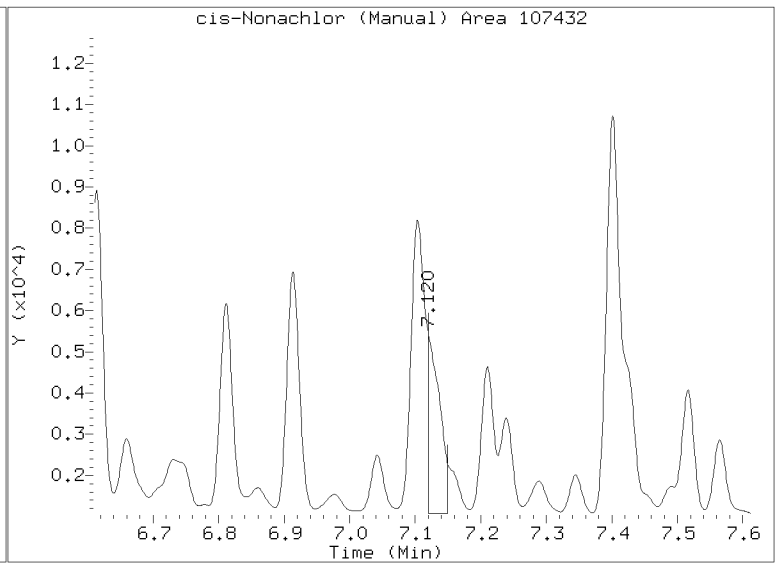






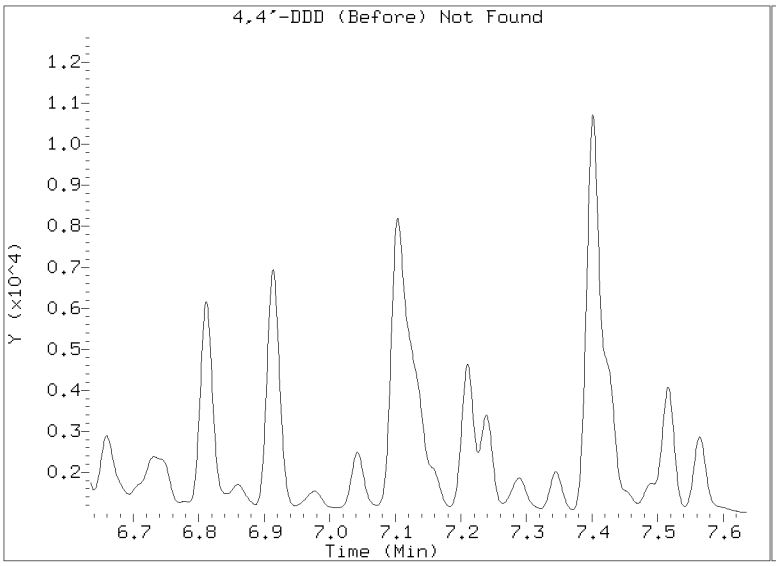


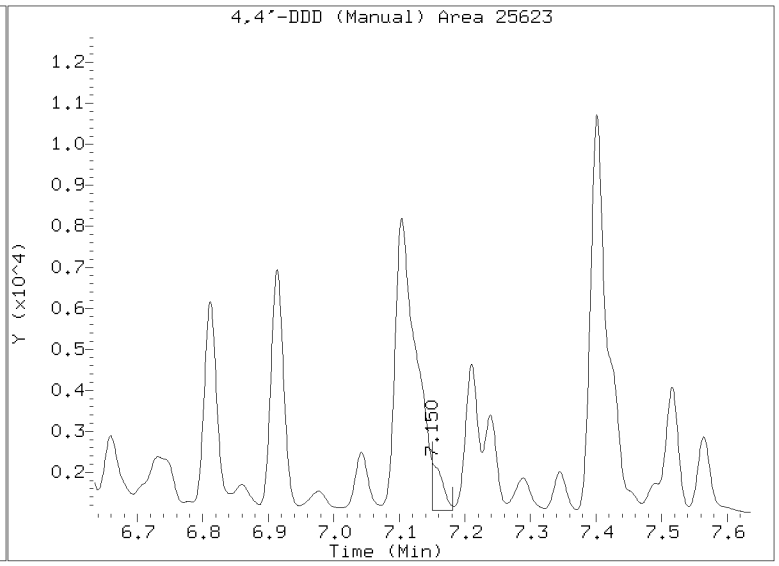


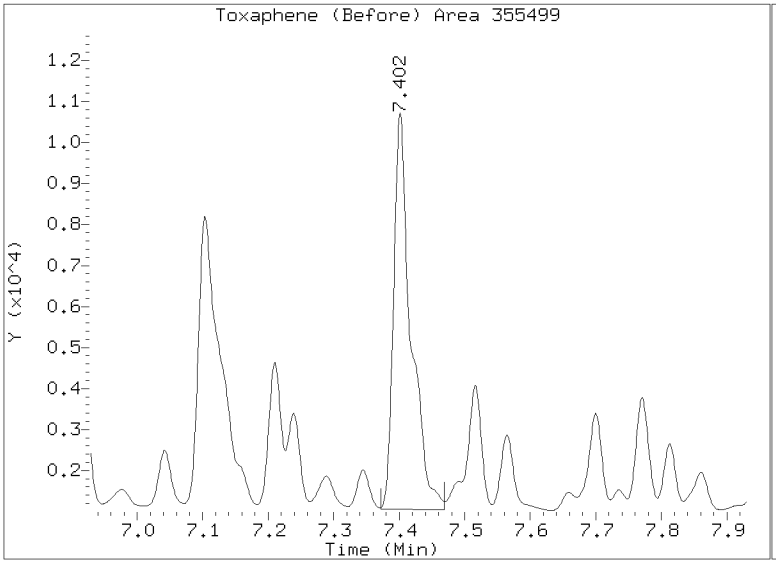


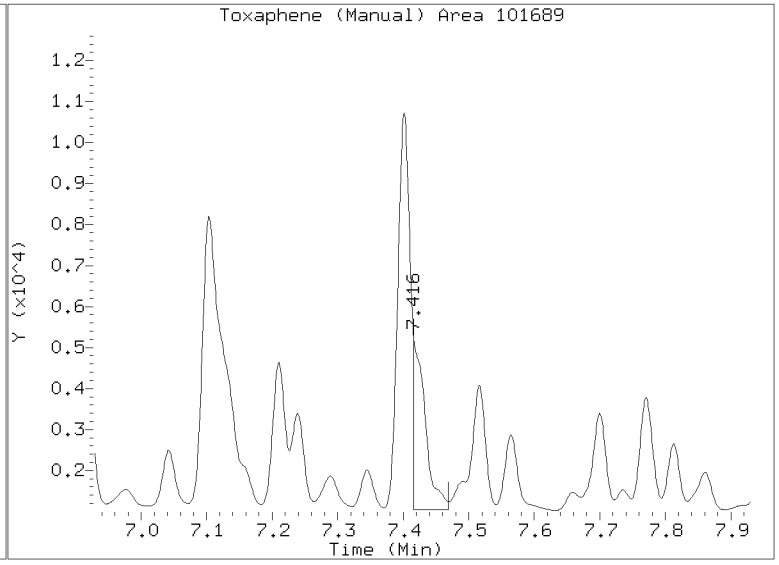
Manual Peak Adjustment Report, STX-CLP

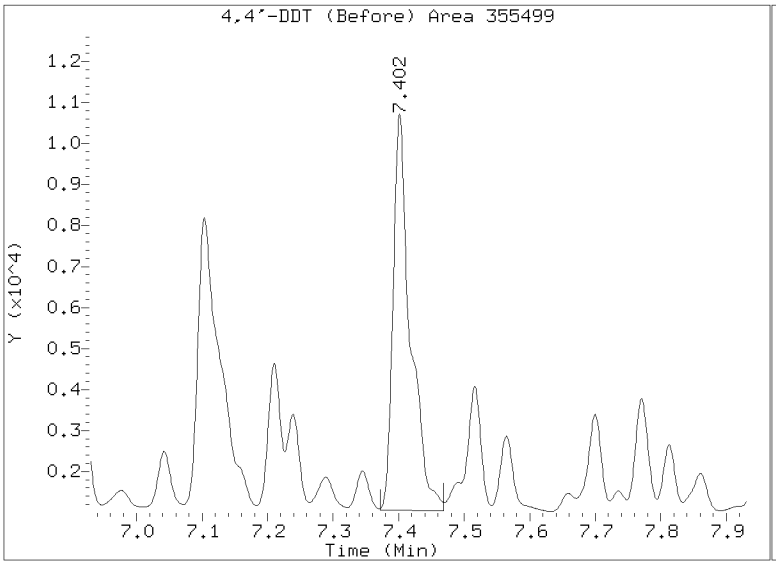
Datafile: /20230412.b/23041243.D
Injection Date: 13-APR-2023 03:30
Lab ID:23C0752-02 Client ID:
Report Date: 04/14/2023 08:21

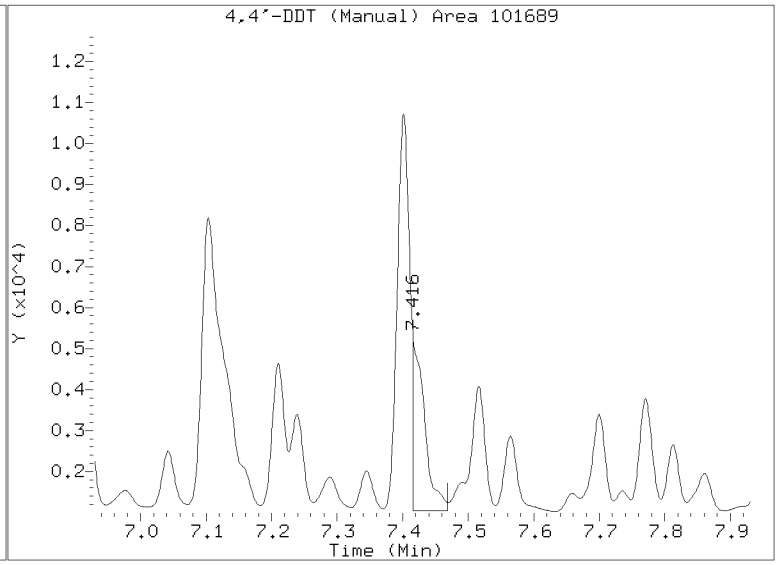






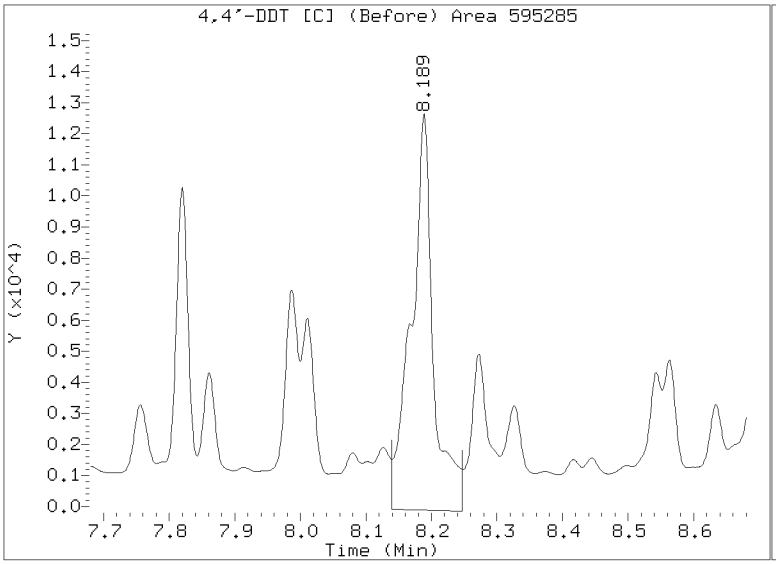


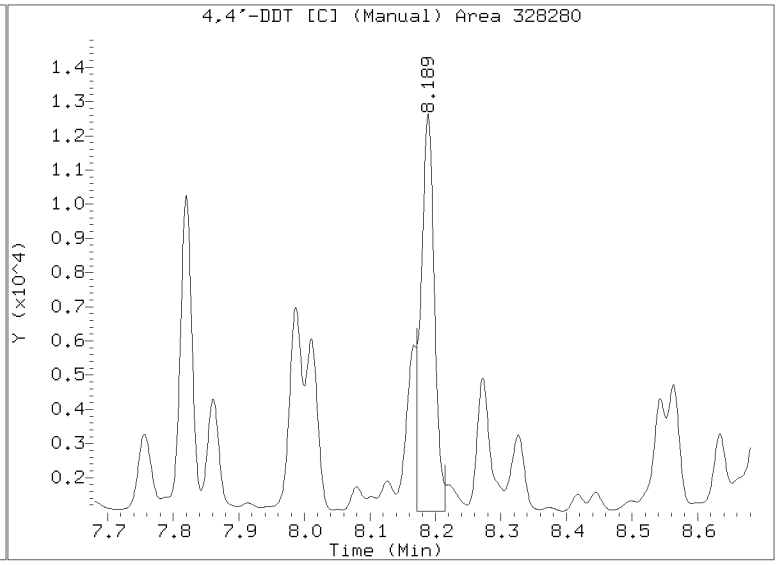


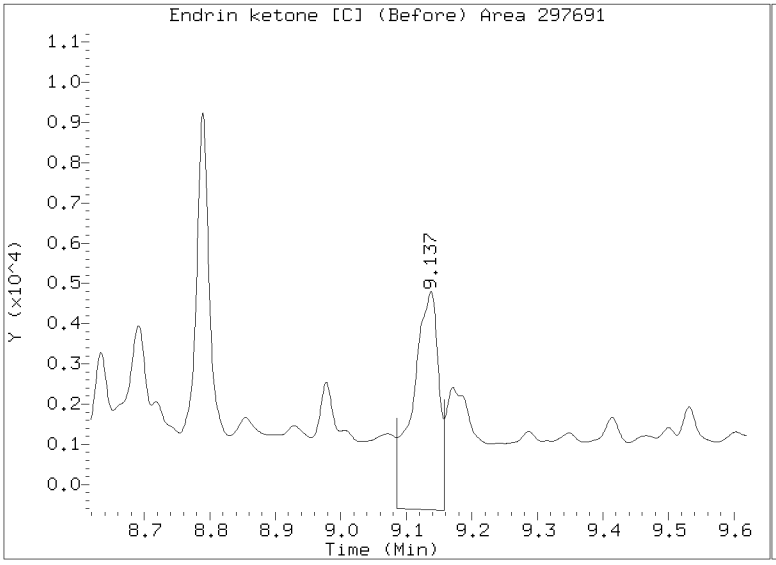


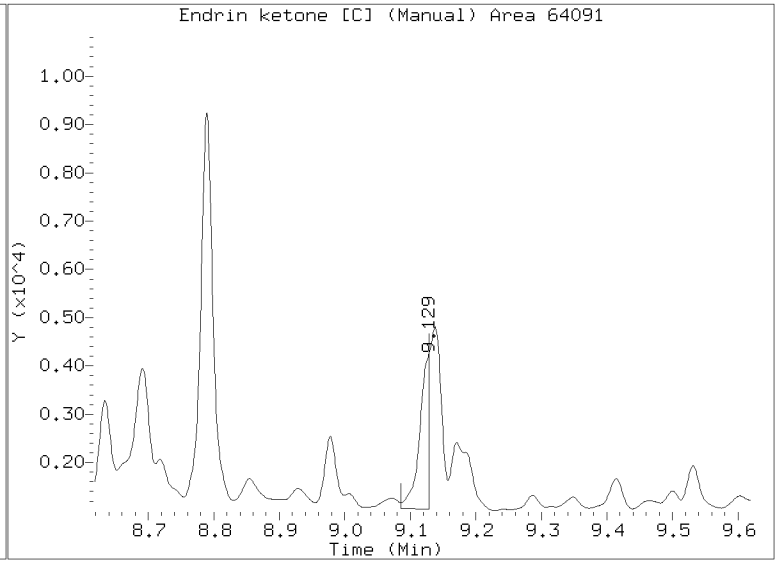
Manual Peak Adjustment Report, CLP-2

Datafile: /20230412.b/B20230412.b/23041243.D
Injection Date: 13-APR-2023 03:30
Lab ID:23C0752-02 Client ID:









Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SS1132

ORGANIC ANALYSIS DATA SHEET
EPA 8081B

Laboratory:	Analytical Resources, LLC			SDG:	23C0752
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23C0752-03 A	File ID:	23041244.D
Sampled:	03/30/23 11:30	Prepared:	04/03/23 11:42	Analyzed:	04/13/23 03:48
% Solids:	50.66	Preparation:	EPA 3546 (Microwave)	Initial/Final:	24.7 g Wet / 2.5 mL
Batch:	BLD0009	Sequence:	SLD0187	Calibration:	GD00035
Instrument:	ECD6	Column 1:	STX-CLP	Column 2:	STX-CLPII

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
118-74-1	Hexachlorobenzene	1	1	0.50	0.14	0.50	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9917*	*6.24*	*78.1*	*30 - 160*	
Decachlorobiphenyl	*2*	*7.9917*	*6.93*	*86.7*	*30 - 160*	
Tetrachlorometaxylene	*1*	*7.9917*	*5.64*	*70.5*	*30 - 160*	
Tetrachlorometaxylene	*2*	*7.9917*	*5.32*	*66.6*	*30 - 160*	

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041244.D
Data file 2: /20230412.b/B20230412.b/23041244.D
Method: \20230412.b\PEST.m
Compound Sublist: wpest.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: 23C0752-03
Client ID:
Injection Date: 13-APR-2023 03:48
Report Date: 04/14/2023 08:21
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.331	-0.002	52898	4.765	0.003	8147	2.42	0.28	158.2*	alpha-BHC
----			5.256	0.026	15103	0.00	1.32	---	beta-BHC
4.913	0.012	112388	----			5.68	0.00	---	delta-BHC
4.640	0.003	48087	5.150	-0.002	3435	2.50	0.14	179.5*	gamma-BHC (Lindane)
5.111	-0.013	29598	5.682	0.011	42978	1.67	1.93	14.9	Heptachlor
5.468	0.020	136817	6.085	0.014	14957	7.57	0.65	168.4*	Aldrin
----			6.707	-0.022	365360	0.00	17.99	---	Heptachlor epoxide b
----			7.161	-0.011	25719	0.00	1.49	---	Endosulfan I
6.812	-0.016	222206	7.449	-0.017	99580	14.44	5.25	93.3*	Dieldrin M
6.483	-0.006	293708	7.256	-0.001	89067	20.24	4.93	121.6*	4,4'-DDE
----			----			0.00	0.00	---	Endrin
7.291	-0.023	46254	8.010	0.009	256113	4.13	18.40	126.6*	Endosulfan II
7.155	0.019	19658	----			1.83	0.00	---	4,4'-DDD
8.166	-0.011	12640	----			1.20	0.00	---	Endosulfan sulfate
7.402	-0.029	585395	8.190	0.009	574603	50.67	42.28	18.1	4,4'-DDT N
7.948	0.028	77682	----			15.69	0.00	---	Methoxychlor
8.425	-0.027	59253	9.131	0.012	76117	4.92	5.44	10.0	Endrin ketone N
7.771	0.028	83719	8.327	-0.004	67881	9.80	6.74	37.0	Endrin aldehyde
6.267	0.001	45114	6.942	0.003	30561	2.83	1.57	57.2*	trans-Chlordane
6.434	0.021	142262	7.099	-0.001	23772	8.88	1.24	151.0*	cis-Chlordane M
2.290	-0.019	33490	2.480	0.027	35723	1.49	1.37	8.5	Hexachlorobutadiene
4.172	-0.003	20490	----			1.06	0.00	---	Hexachlorobenzene
----			6.618	-0.006	9777	0.00	0.63	---	Oxychlordane
6.114	0.009	65771	6.907	-0.014	379657	8.74	33.45	117.1*	2,4-DDE
6.384	-0.011	42107	7.047	0.008	23378	3.44	1.52	77.6*	trans-Nonachlor MN
6.661	-0.020	79901	----			11.36	0.00	---	2,4-DDD
6.977	0.018	27200	7.820	0.021	356520	3.21	34.00	165.5*	2,4-DDT
7.103	-0.008	490084	7.861	0.002	96524	38.37	6.06	145.5*	cis-Nonachlor M
8.074	-0.012	211666	9.075	-0.026	19828	26.88	2.16	170.3*	Mirex
1.791	0.017	4024	1.670	-0.006	89272	0.00	0.00	---	Hexachloroethane
6.614	0.026	444056	7.357	0.021	100321	0.00	0.00	---	Kepone
3.818	-0.001	394516	4.135	-0.001	497696	28.22	26.64	5.8	Tetrachloro-m-xylene
9.367	0.001	254832	10.306	0.000	306348	31.24	34.66	10.4	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	999175	15.6
Hexabromobiphenyl	663237	691609	4.3

Column 2

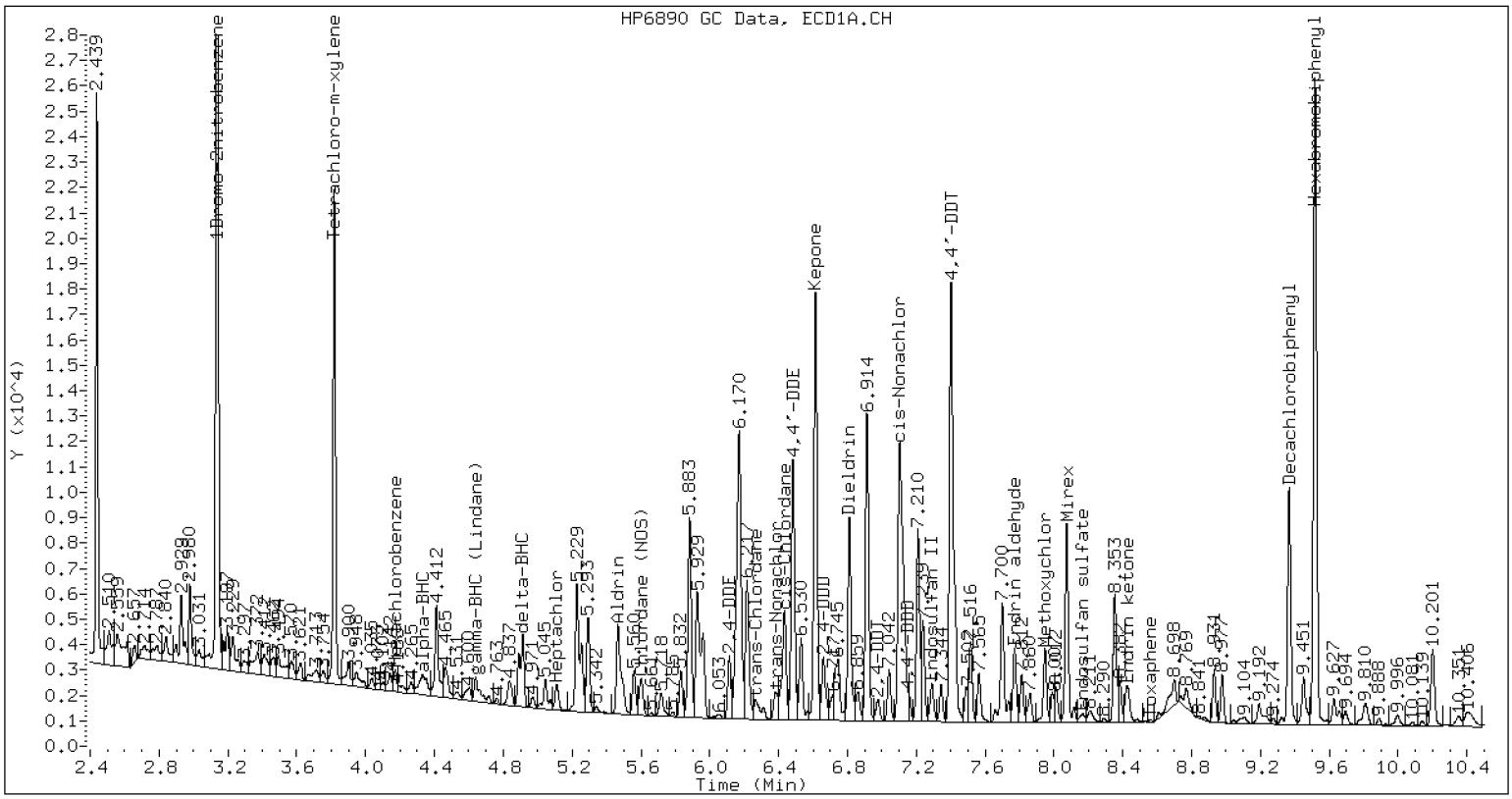
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1358770	-8.2
Hexabromobiphenyl	870561	732200	-15.9

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Toxaphene	1	7.402	-0.028	585395	2287.5	1	7.449	0.009	99580	422.4	
Toxaphene	2	---			0.000	2	8.080	-0.003	50966	73.2	
Toxaphene	3	8.074	-0.005	211666	453.1	3	8.327	-0.009	67881	125.0	
Toxaphene	4	8.425	-0.007	59253	160.9	4	8.855	0.016	30950	53.1	
Toxaphene	5	8.562	-0.013	2209	10.0	5	---			0.0	
Total STX-CLPAve (4 peaks): 727.884						Total CLP2Ave (4 peaks): 168.423				RPD = 125*	
Corrected Ave (3 peaks): 208.003						Corrected Ave (3 peaks): 83.751				RPD = 85*	

		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Chlordane (NOS)	1	---			0.000	1	---			0.000	
Chlordane (NOS)	2	---			0.000	2	---			0.000	
Chlordane (NOS)	3	---			0.000	3	---			0.000	
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks					

/20230412.b/23041244.D 23C0752-03 STX-CLP 13-APR-2023 03:48 1ul



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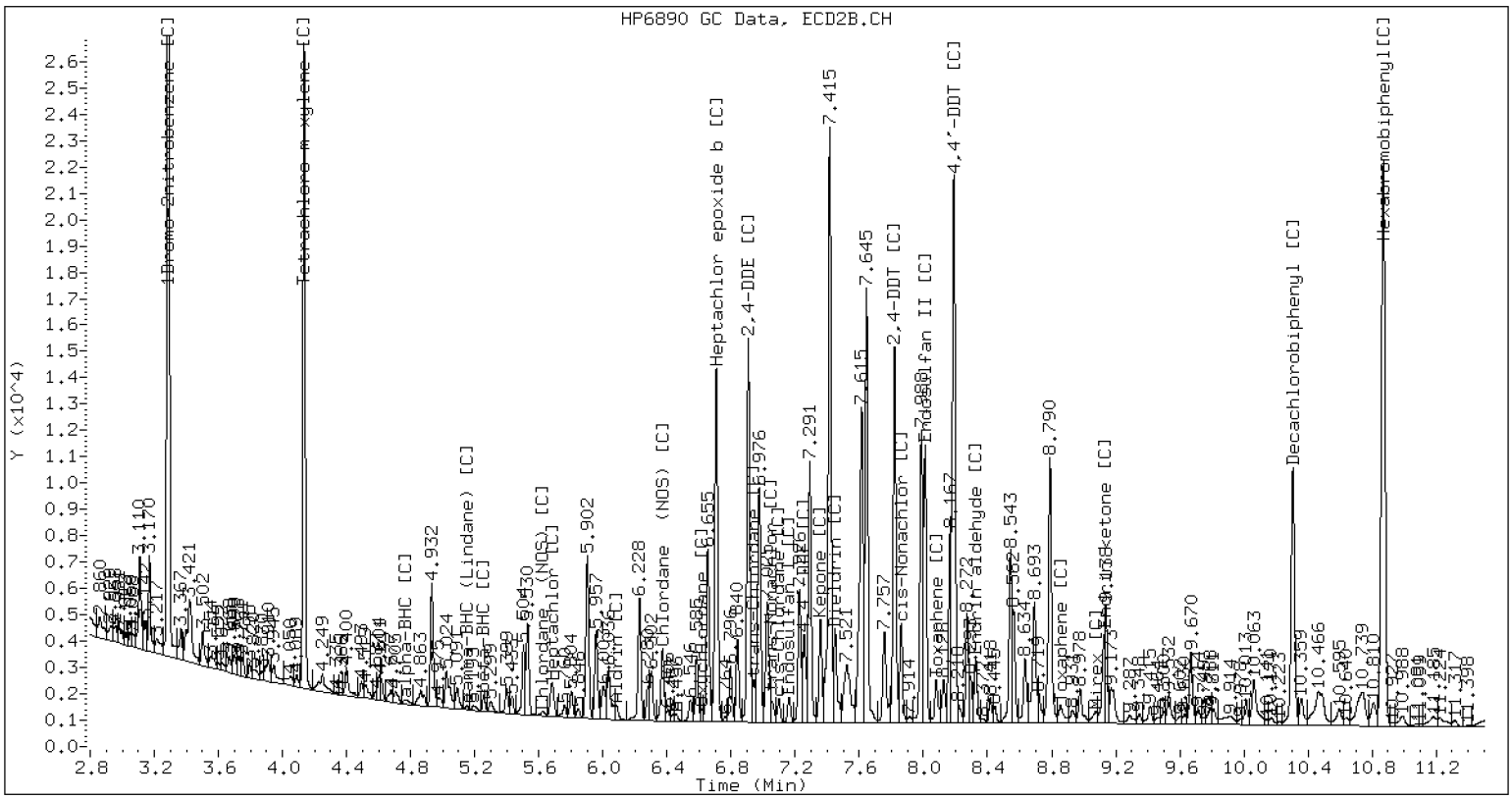
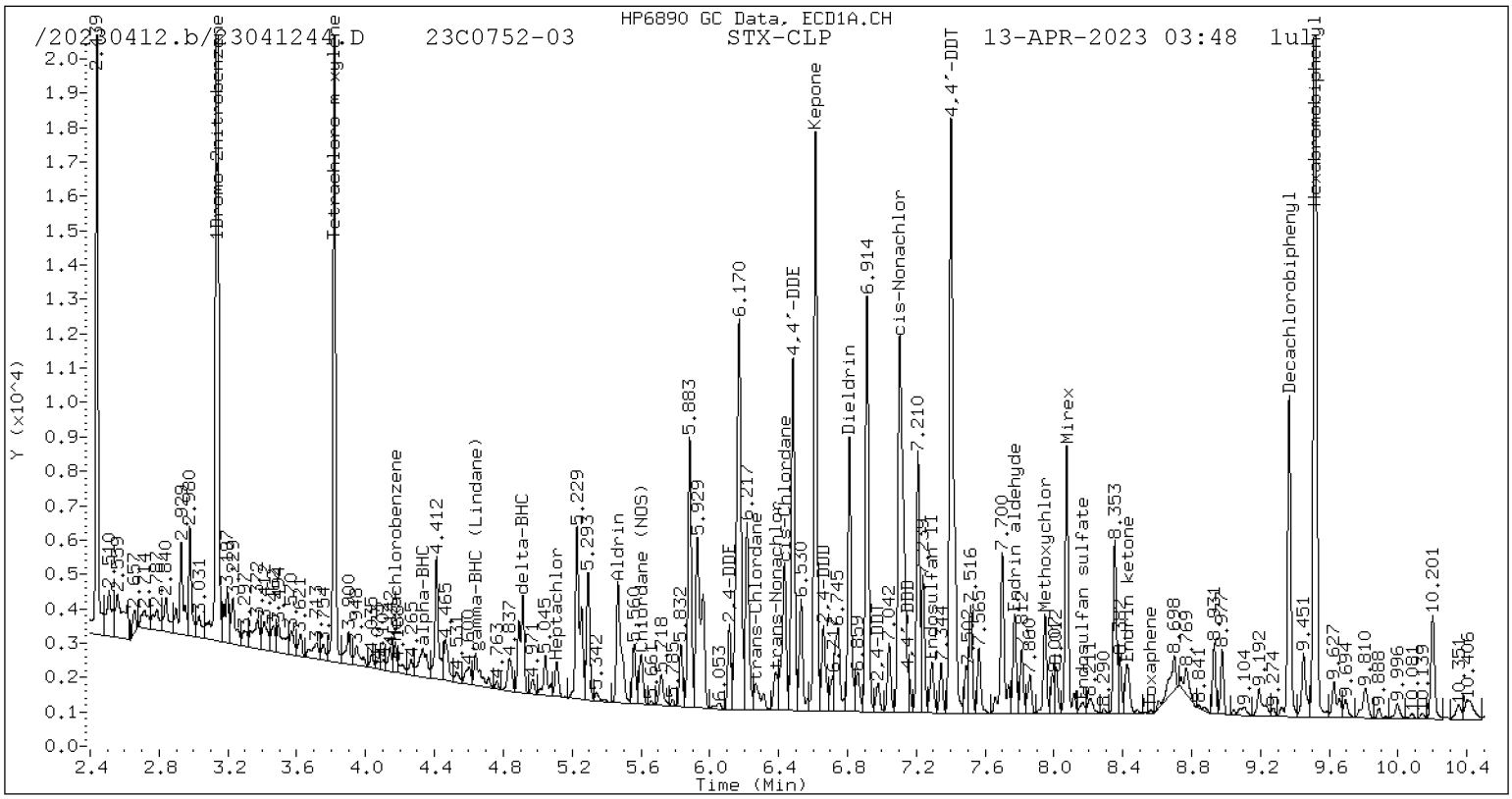
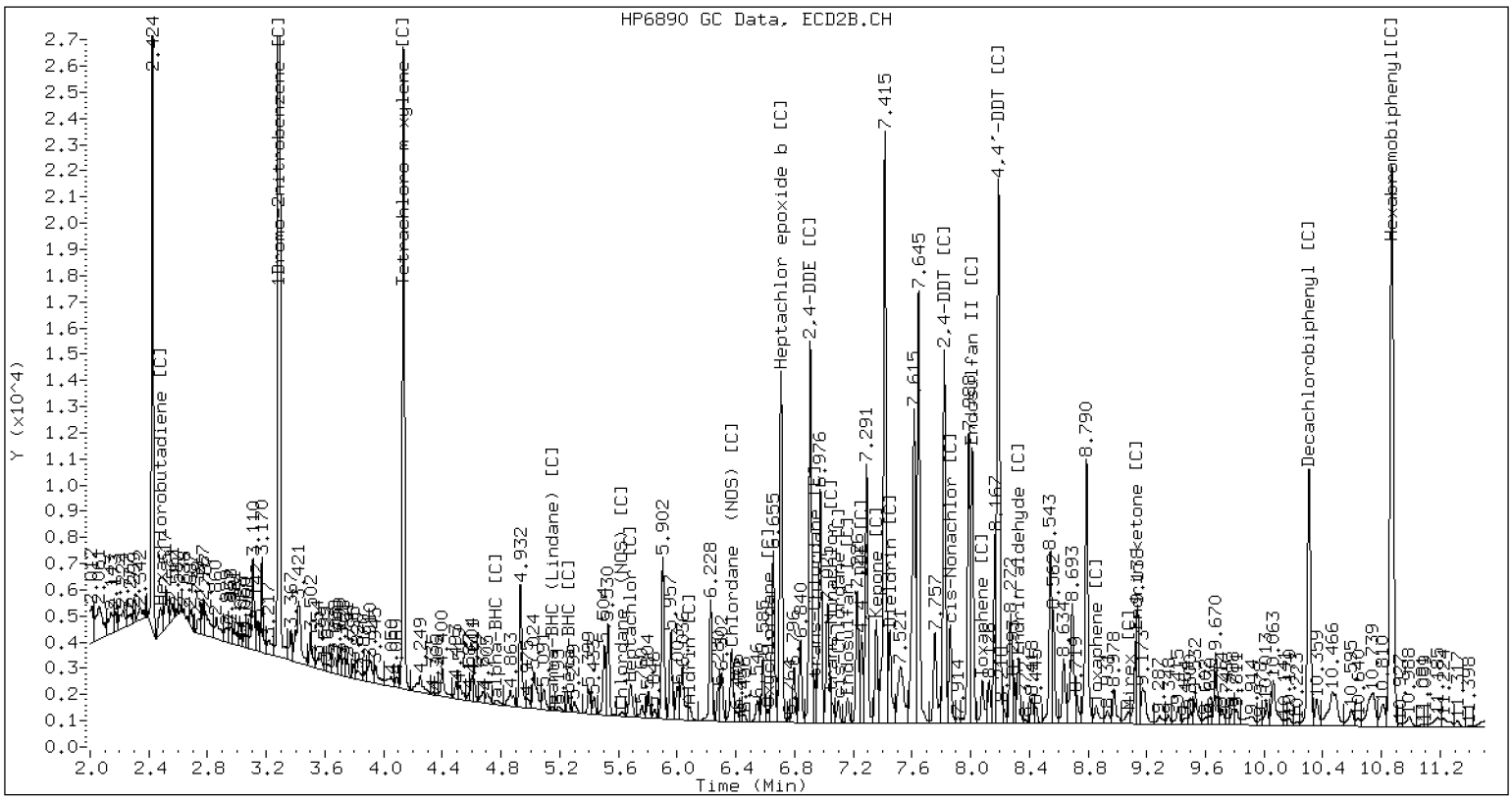


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

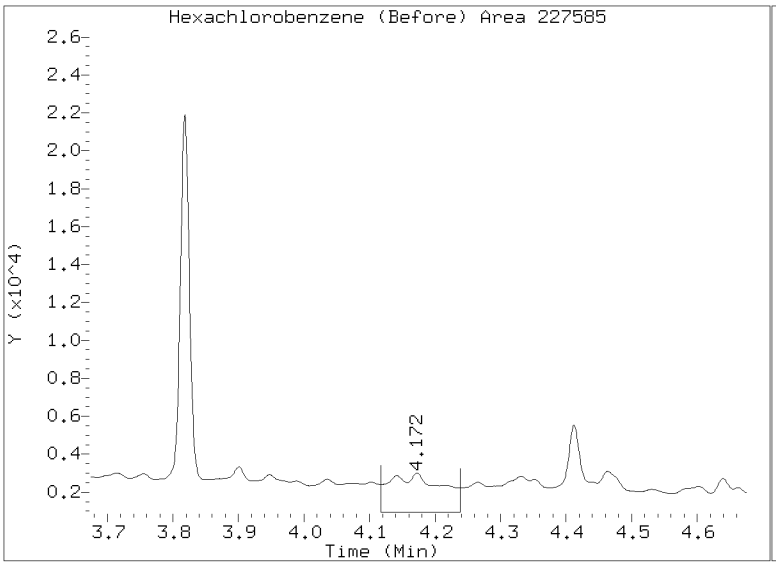
/20230412.b/B20230412.b/23041244.D 23C0752-03 CLP2

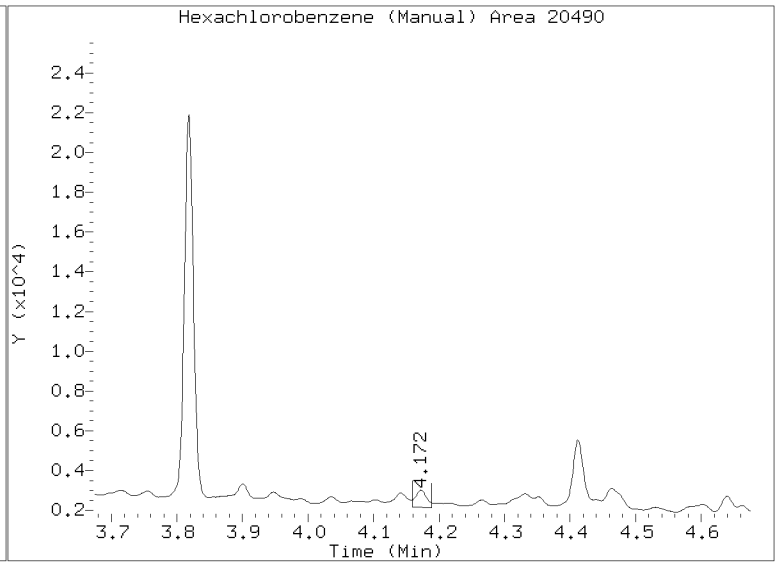


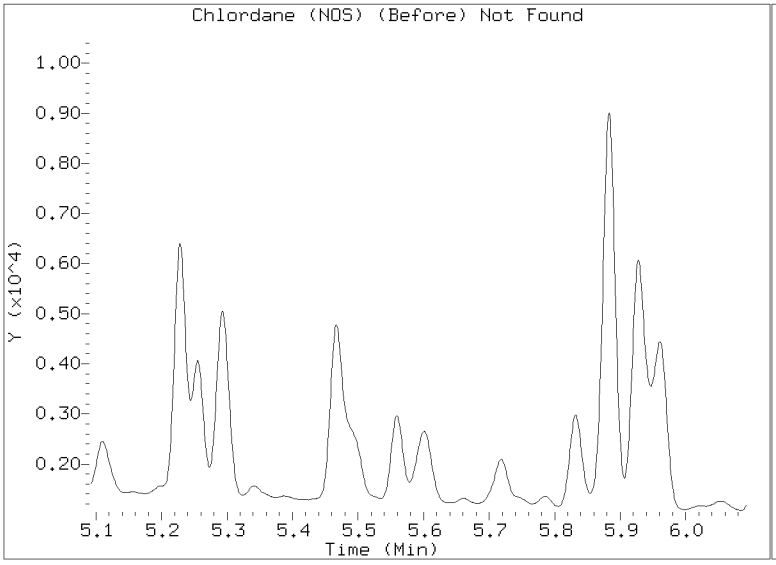
CLP-2 Manual Integration: YES

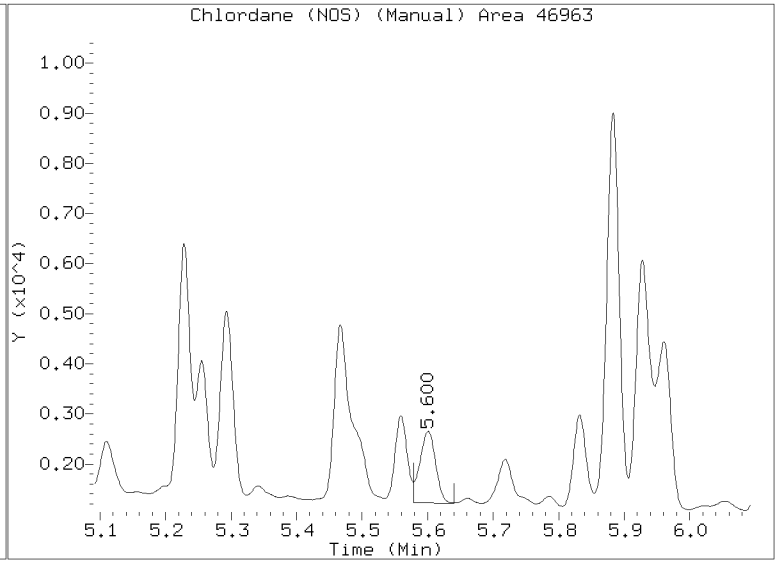
Manual Peak Adjustment Report, STX-CLP

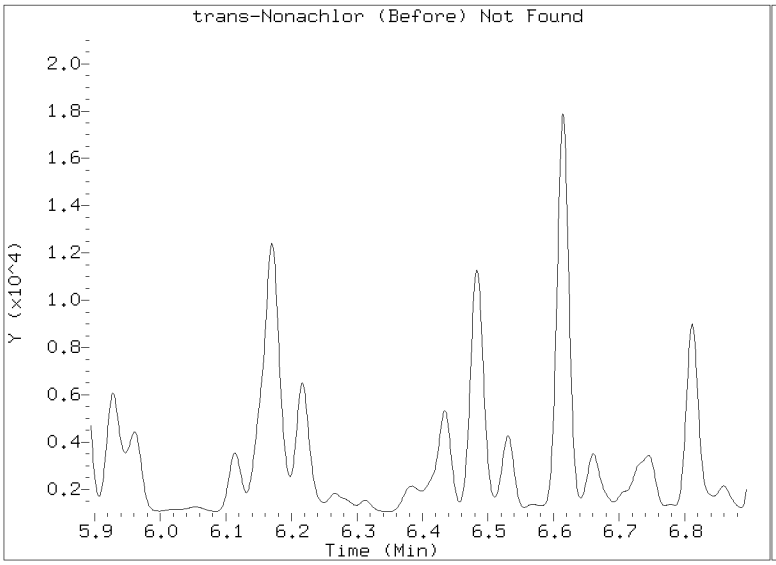
Datafile: /20230412.b/23041244.D
Injection Date: 13-APR-2023 03:48
Lab ID:23C0752-03 Client ID:
Report Date: 04/14/2023 08:21

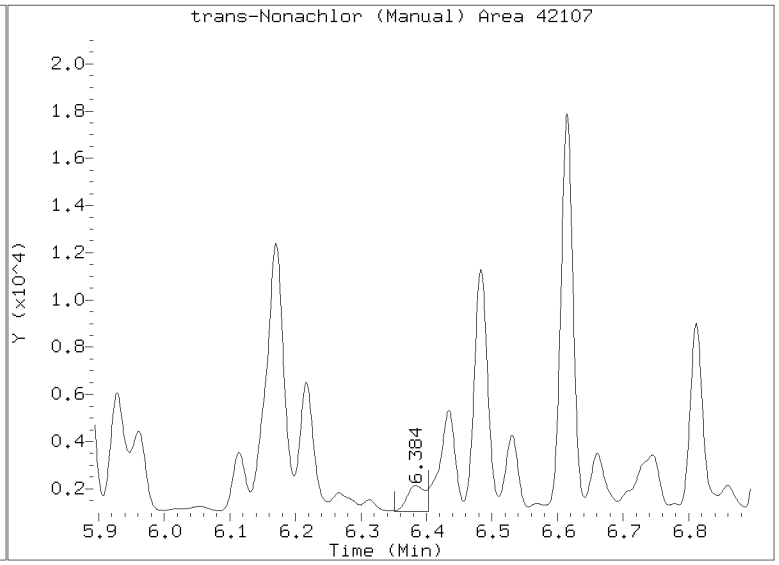






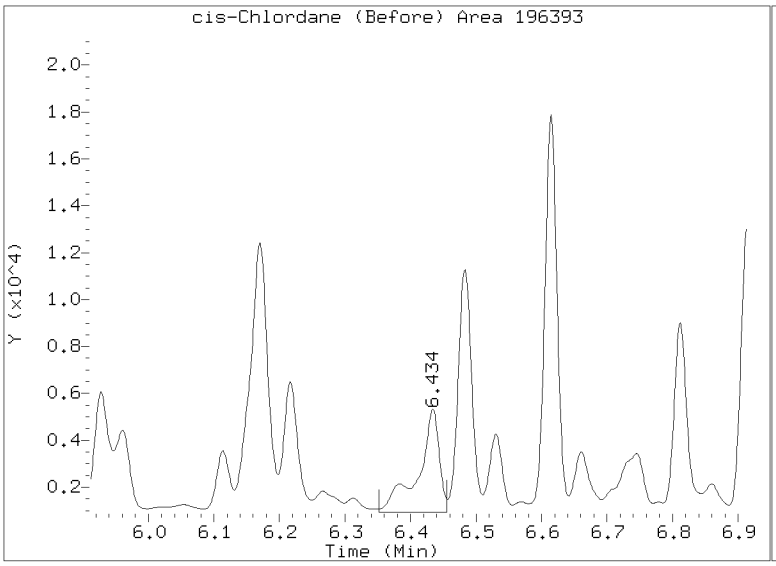


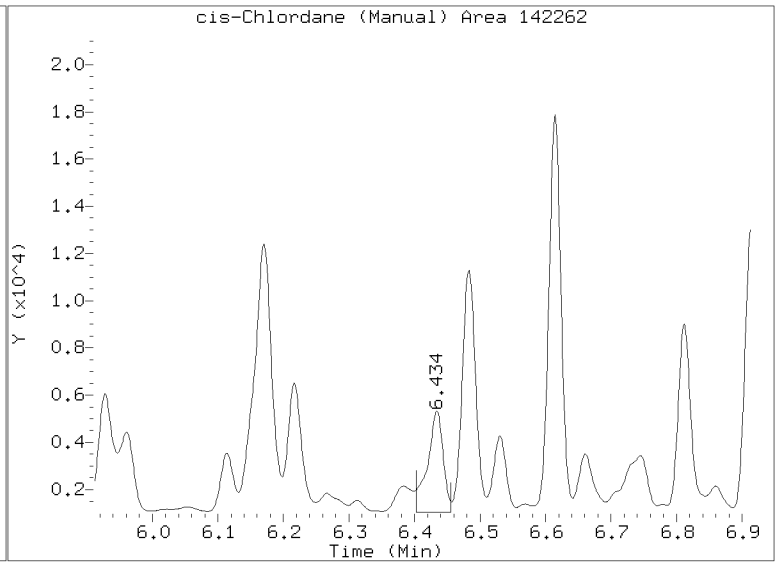


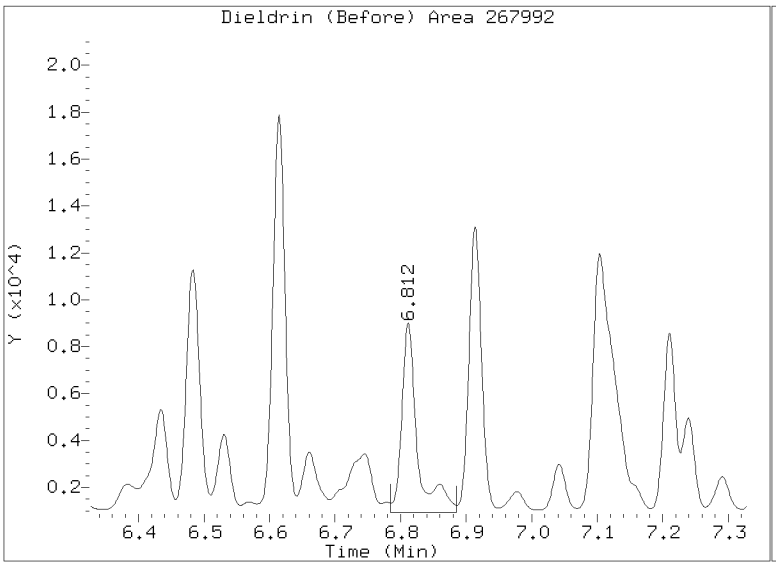


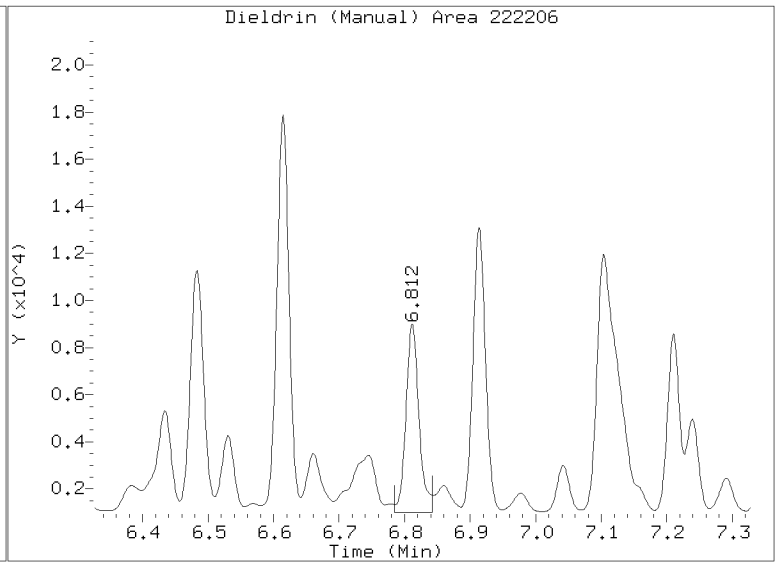
Manual Peak Adjustment Report, STX-CLP

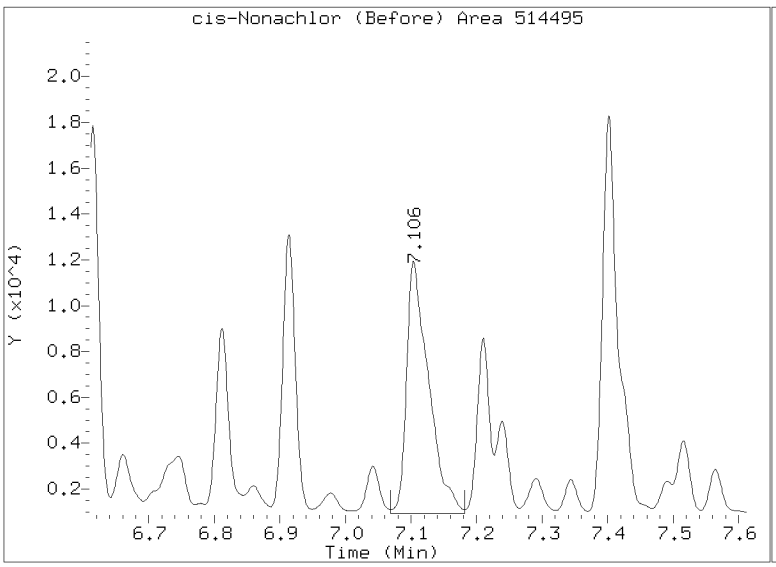
Datafile: /20230412.b/23041244.D
Injection Date: 13-APR-2023 03:48
Lab ID:23C0752-03 Client ID:
Report Date: 04/14/2023 08:21

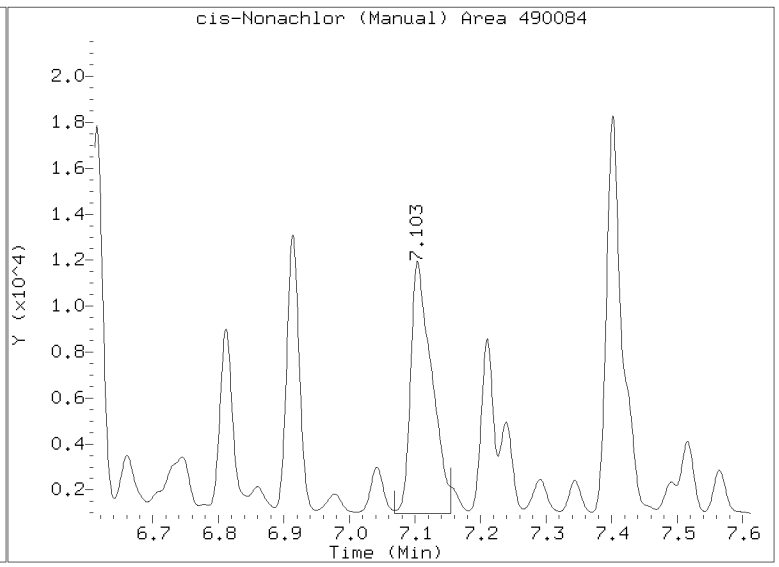












Manual Peak Adjustment Report, STX-CLP

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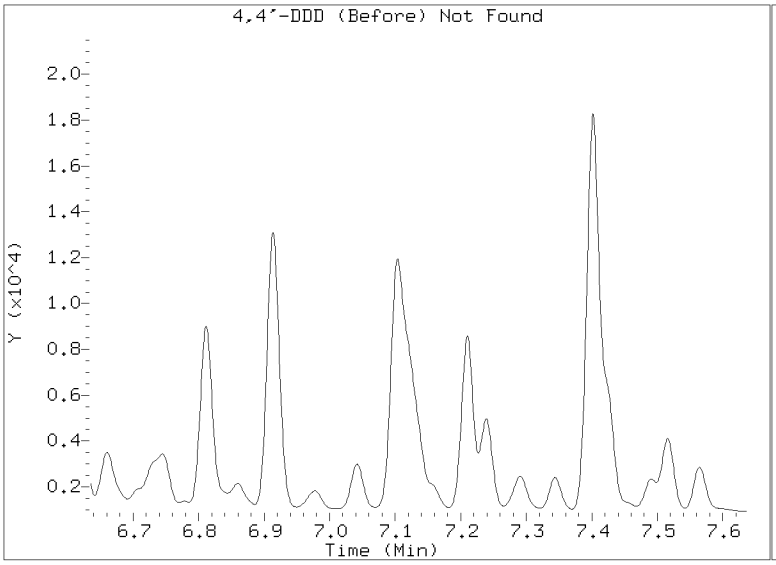
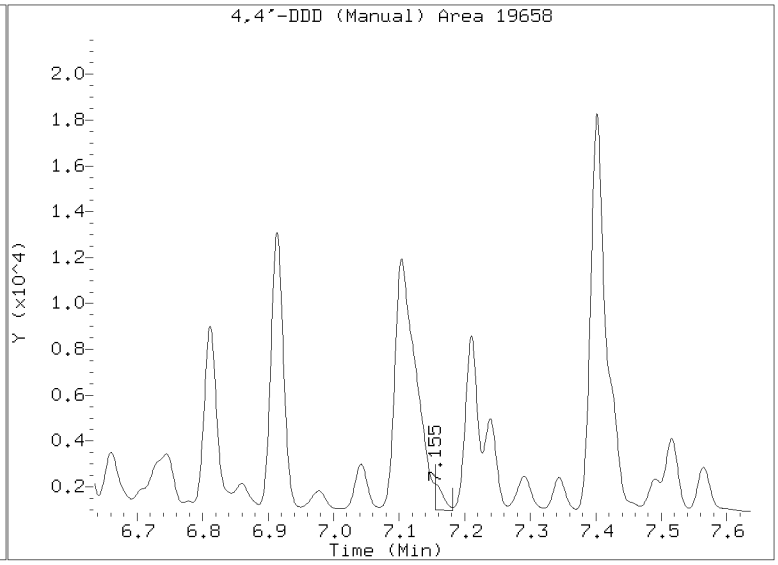
Injection Date: 13-APR-2023 03:48
Lab ID:23C0752-03 Client ID:
Report Date: 04/14/2023 08:21





Manual Peak Adjustment Report, CLP-2

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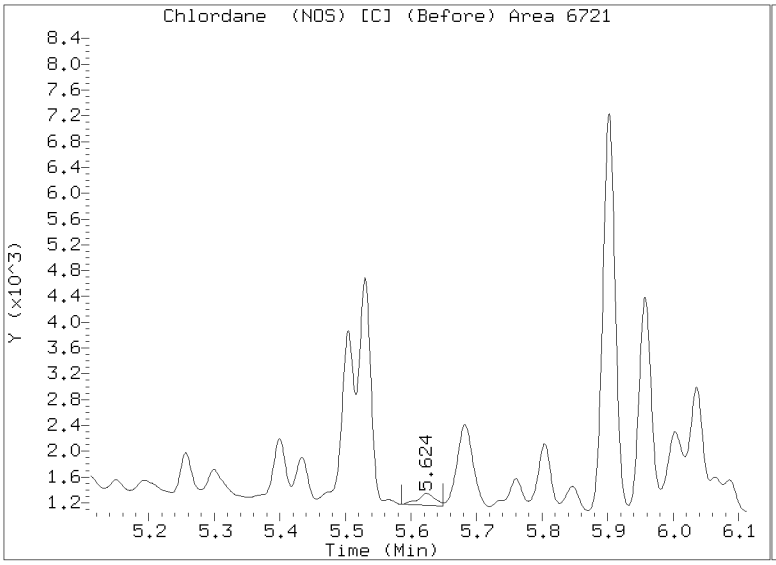

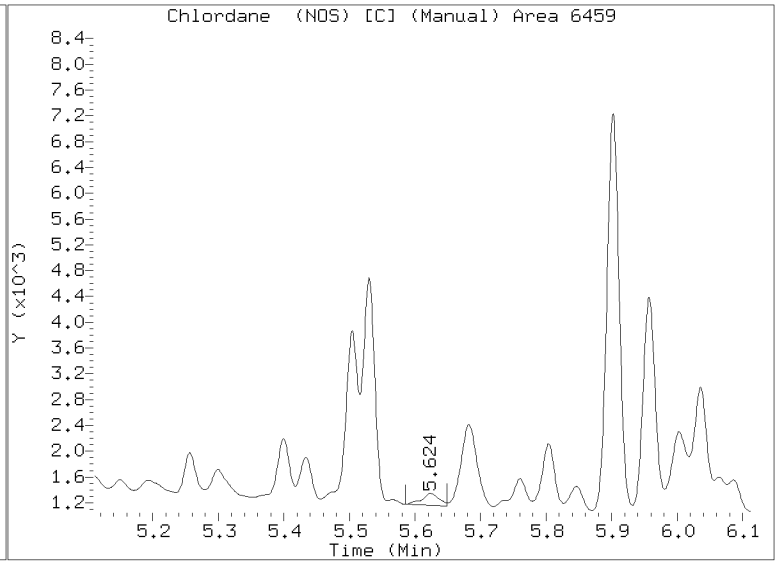

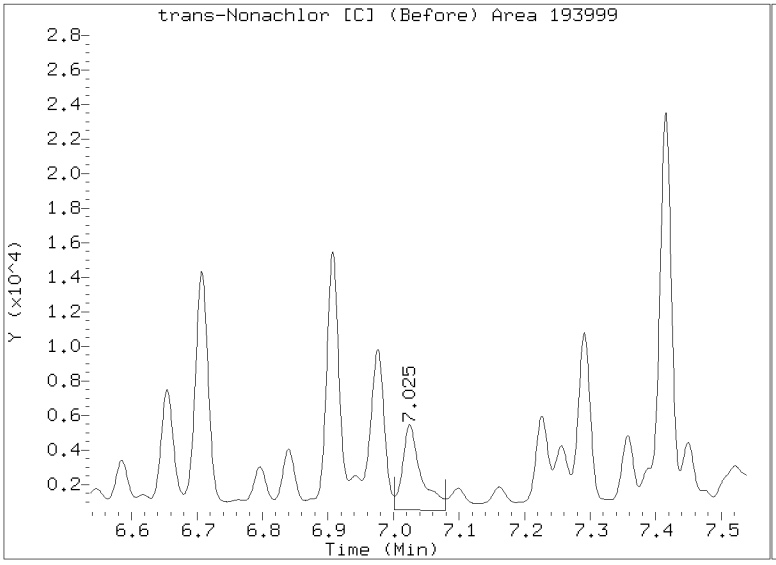

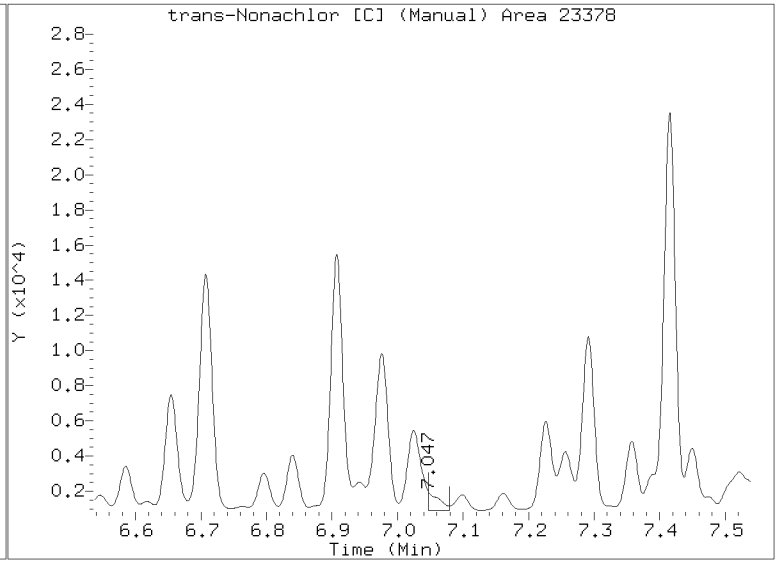

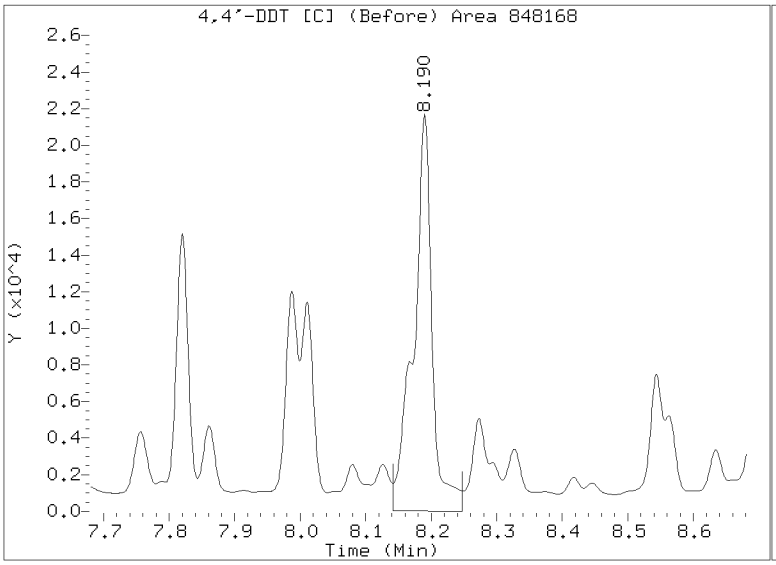

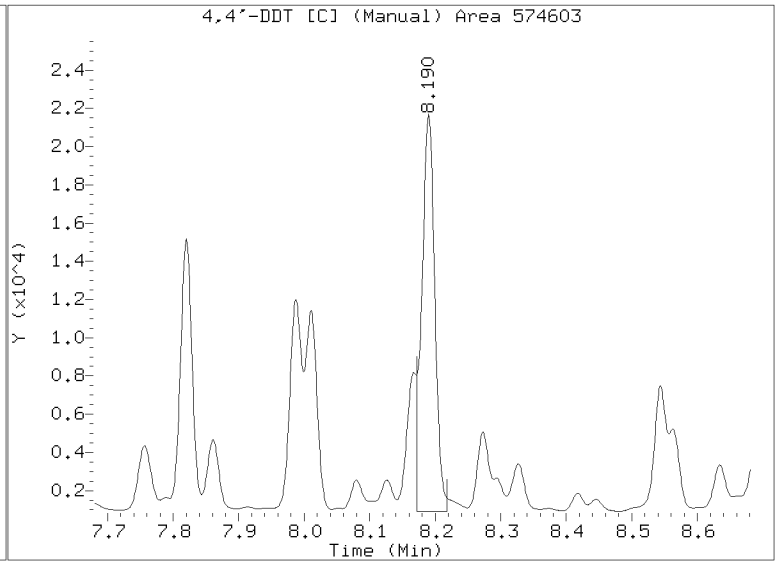

Manual Peak Adjustment Report, CLP-2

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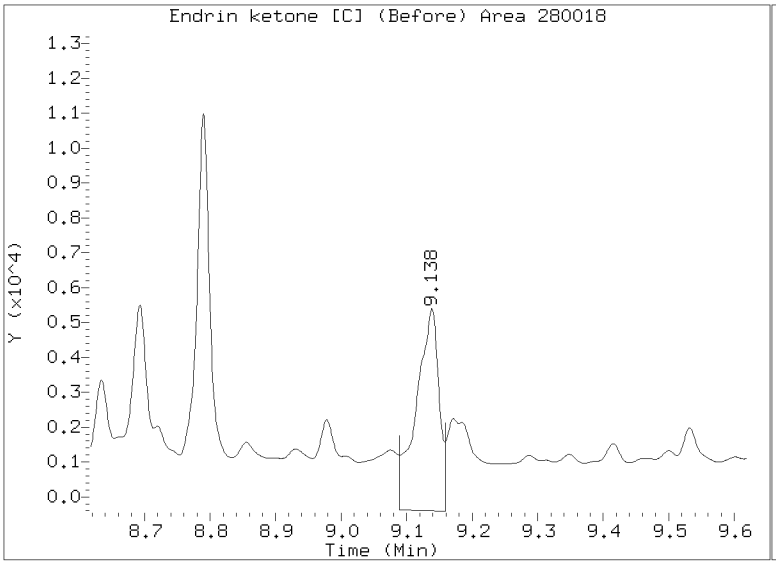
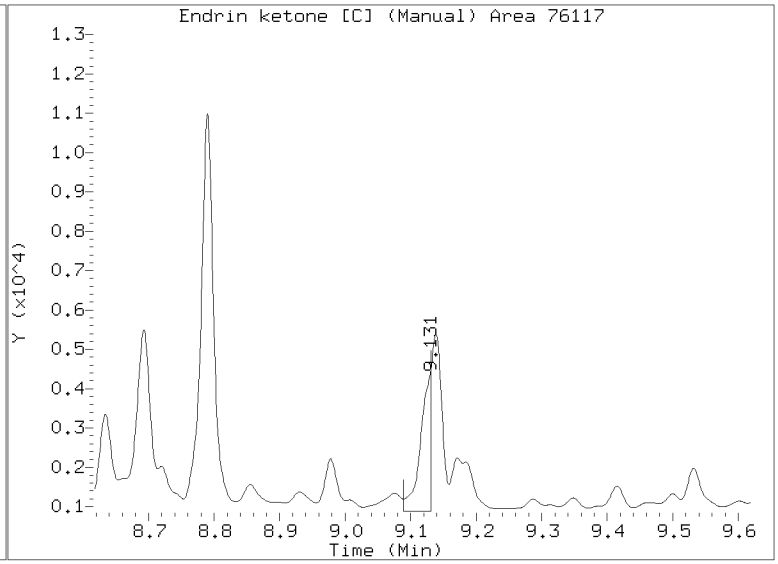
Injection Date: 13-APR-2023 03:48
Lab ID:23C0752-03 Client ID:





Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SS1810

ORGANIC ANALYSIS DATA SHEET
EPA 8081B

Laboratory:	Analytical Resources, LLC			SDG:	23C0752
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23C0752-04 A	File ID:	23041245.D
Sampled:	03/30/23 10:36	Prepared:	04/03/23 11:42	Analyzed:	04/13/23 04:07
% Solids:	52.71	Preparation:	EPA 3546 (Microwave)	Initial/Final:	23.73 g Wet / 2.5 mL
Batch:	BLD0009	Sequence:	SLD0187	Calibration:	GD00035
Instrument:	ECD6	Column 1:	STX-CLP	Column 2:	STX-CLPII

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
118-74-1	Hexachlorobenzene	1	1	0.50	0.14	0.50	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9948*	*5.68*	*71.1*	*30 - 160*	
Decachlorobiphenyl	*2*	*7.9948*	*6.44*	*80.5*	*30 - 160*	
Tetrachlorometaxylene	*1*	*7.9948*	*5.52*	*69.0*	*30 - 160*	
Tetrachlorometaxylene	*2*	*7.9948*	*5.16*	*64.5*	*30 - 160*	

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041245.D
Data file 2: /20230412.b/B20230412.b/23041245.D
Method: \20230412.b\PEST.m
Compound Sublist: wpest.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: 23C0752-04
Client ID:
Injection Date: 13-APR-2023 04:07
Report Date: 04/14/2023 08:21
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.339	0.006	51407	4.772	0.010	14466	2.41	0.50	130.9*	alpha-BHC
----			5.256	0.026	12326	0.00	1.08	---	beta-BHC
4.890	-0.011	37530	5.595	0.018	2022	1.95	0.08	184.4*	delta-BHC M
4.639	0.002	37056	5.150	-0.002	4646	1.98	0.18	166.0*	gamma-BHC (Lindane)
5.110	-0.014	20144	5.682	0.011	33428	1.16	1.51	26.0	Heptachlor
----			6.088	0.016	256769	0.00	11.17	---	Aldrin
----			6.708	-0.021	162103	0.00	8.01	---	Heptachlor epoxide b
----			7.161	-0.011	8790	0.00	0.51	---	Endosulfan I
6.811	-0.017	99973	7.449	-0.017	56149	6.66	2.97	76.6*	Dieldrin
6.484	-0.005	118559	7.255	-0.002	63461	8.38	3.53	81.4*	4,4'-DDE
7.103	0.025	142571	----			12.15	0.00	---	Endrin
7.287	-0.027	23786	8.010	0.009	85477	2.17	6.23	96.9*	Endosulfan II
7.148	0.012	21570	----			2.05	0.00	---	4,4'-DDD
8.166	-0.011	9112	----			0.88	0.00	---	Endosulfan sulfate
7.420	-0.011	59902	8.176	-0.005	96726	5.28	7.22	31.1	4,4'-DDT MN
7.947	0.027	26276	----			5.41	0.00	---	Methoxychlor
8.424	-0.028	44986	9.137	0.018	127990	3.81	9.28	83.7*	Endrin ketone
7.771	0.028	57572	8.325	-0.006	57587	6.87	5.81	16.7	Endrin aldehyde
6.265	-0.001	13619	6.943	0.004	26910	0.87	1.39	45.3*	trans-Chlordane M
6.433	0.020	62927	7.098	-0.002	14076	4.03	0.74	138.1*	cis-Chlordane M
2.289	-0.020	34325	2.479	0.026	39236	1.56	1.51	3.7	Hexachlorobutadiene
----			----			0.00	0.00	---	Hexachlorobenzene
----			6.618	-0.006	9142	0.00	0.59	---	Oxychlordane
6.113	0.008	25642	6.906	-0.015	131278	3.47	11.61	107.9*	2,4-DDE
6.389	-0.006	11690	7.025	-0.014	62146	0.97	4.09	123.2*	trans-Nonachlor M
6.661	-0.020	46834	----			6.79	0.00	---	2,4-DDD
6.974	0.015	10214	7.820	0.021	169585	1.23	16.42	172.2*	2,4-DDT
7.117	0.006	92277	7.860	0.001	74330	7.36	4.73	43.4*	cis-Nonachlor M
8.073	-0.012	136915	9.071	-0.030	16605	17.71	1.83	162.5*	Mirex
1.797	0.023	6168	1.666	-0.010	52441	0.00	0.00	---	Hexachloroethane
6.614	0.026	147862	7.324	-0.012	3757	0.00	0.00	---	Kepone
3.818	-0.001	376265	4.134	-0.002	480461	27.59	25.82	6.6	Tetrachloro-m-xylene
9.366	0.000	227605	10.305	-0.001	280476	28.42	32.22	12.5	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	974545	12.8
Hexabromobiphenyl	663237	678871	2.4

Column 2

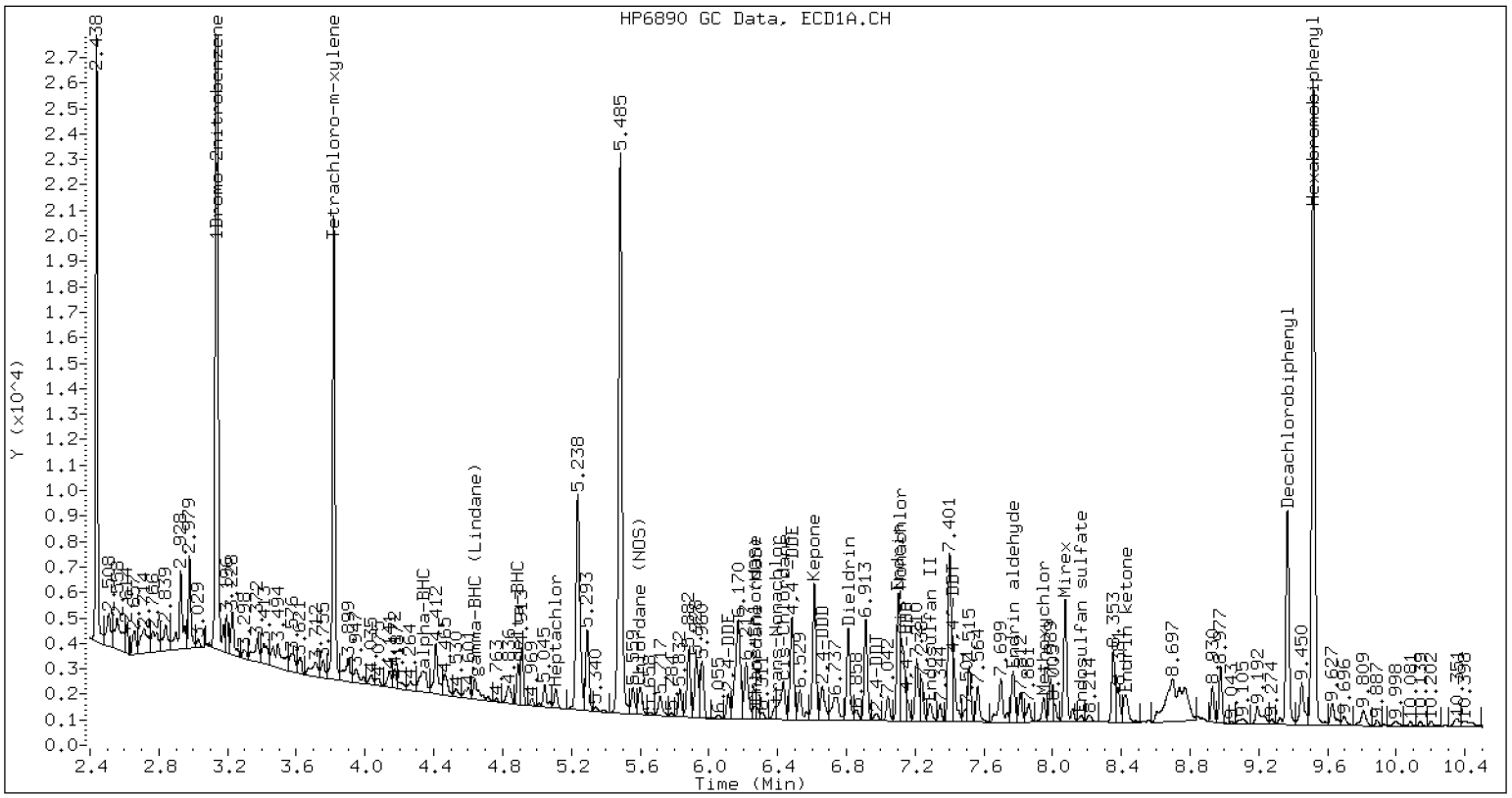
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1353303	-8.6
Hexabromobiphenyl	870561	721256	-17.2

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Toxaphene	1	7.420	-0.010	59902	238.5	1	7.449	0.009	56149	241.8	
Toxaphene	2	---			0.000	2	8.080	-0.003	12447	18.2	
Toxaphene	3	8.073	-0.006	136915	298.6	3	8.325	-0.011	57587	107.6	
Toxaphene	4	8.424	-0.008	44986	124.5	4	8.854	0.015	34718	60.4	
Toxaphene	5	---			0.000	5	---			0.000	
Total STX-CLPAve (3 peaks): 220.512						Total CLP2Ave (4 peaks): 106.999				RPD = 69*	
Corrected Ave (3 peaks): 220.512						Corrected Ave (3 peaks): 62.062				RPD = 112*	

		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Chlordane (NOS)	1	---			0.000	1	---			0.000	
Chlordane (NOS)	2	---			0.000	2	---			0.000	
Chlordane (NOS)	3	---			0.000	3	---			0.000	
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks					

/20230412.b/23041245.D 23C0752-04 STX-CLP 13-APR-2023 04:07 1ul



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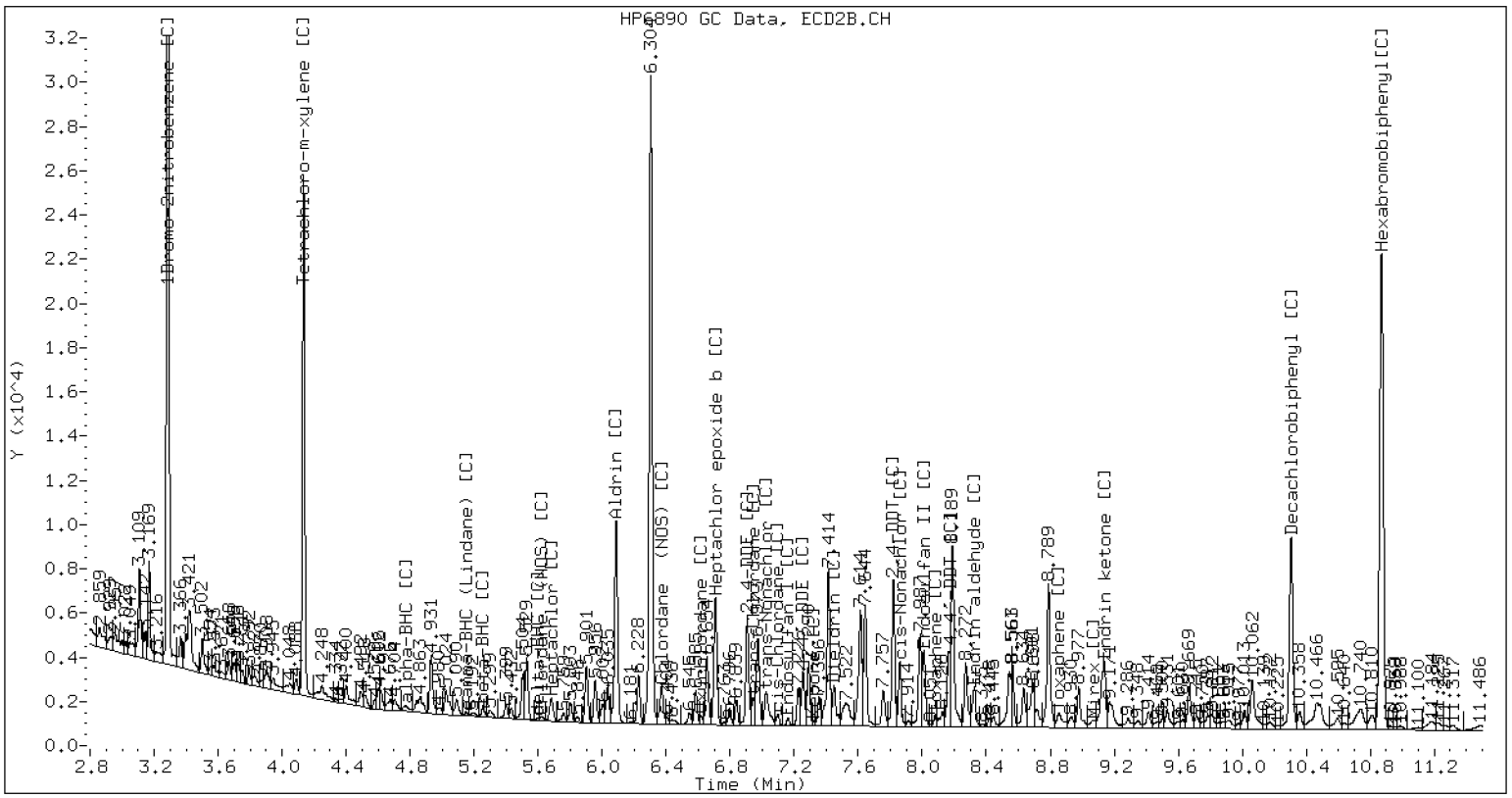
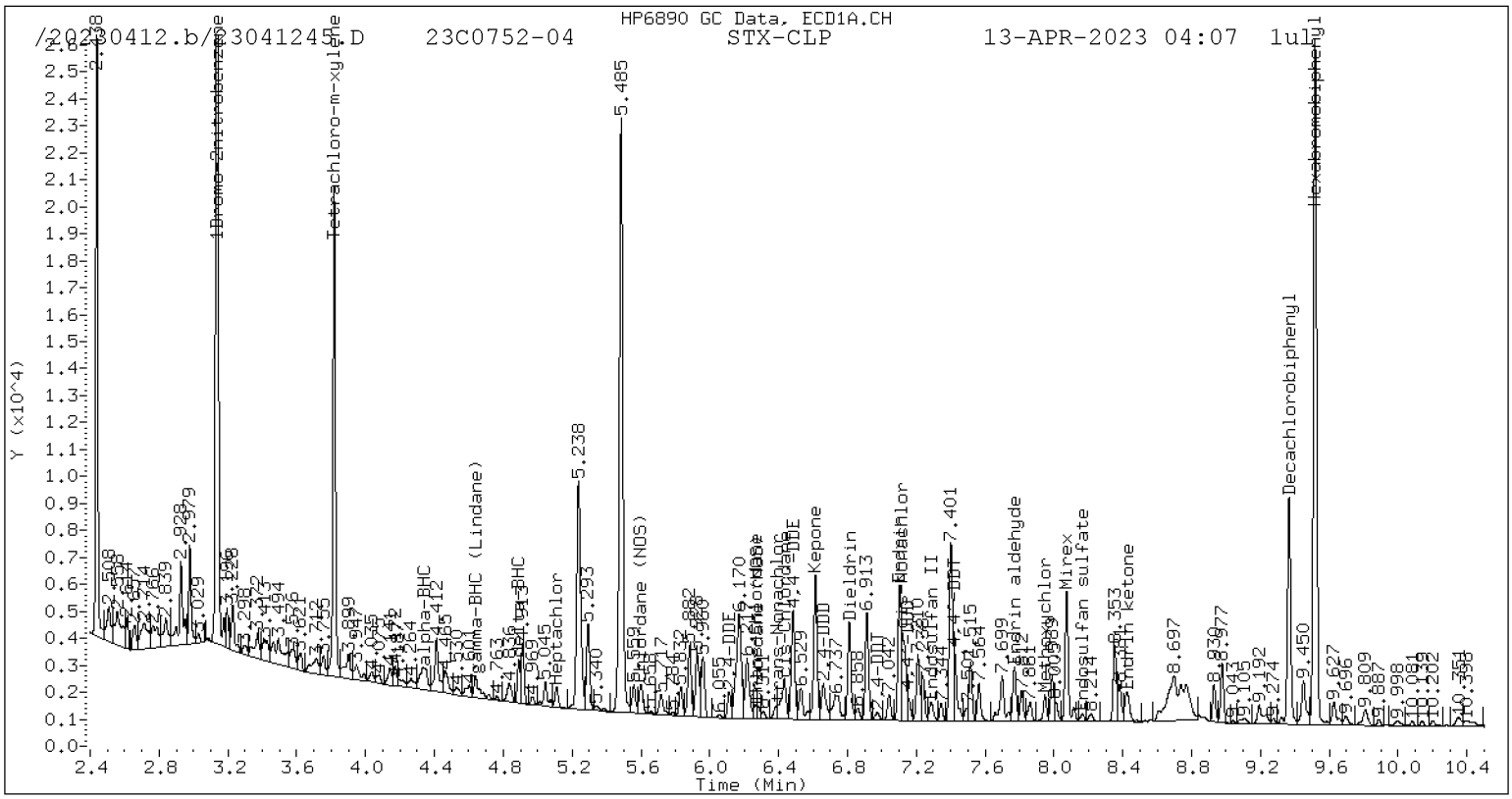
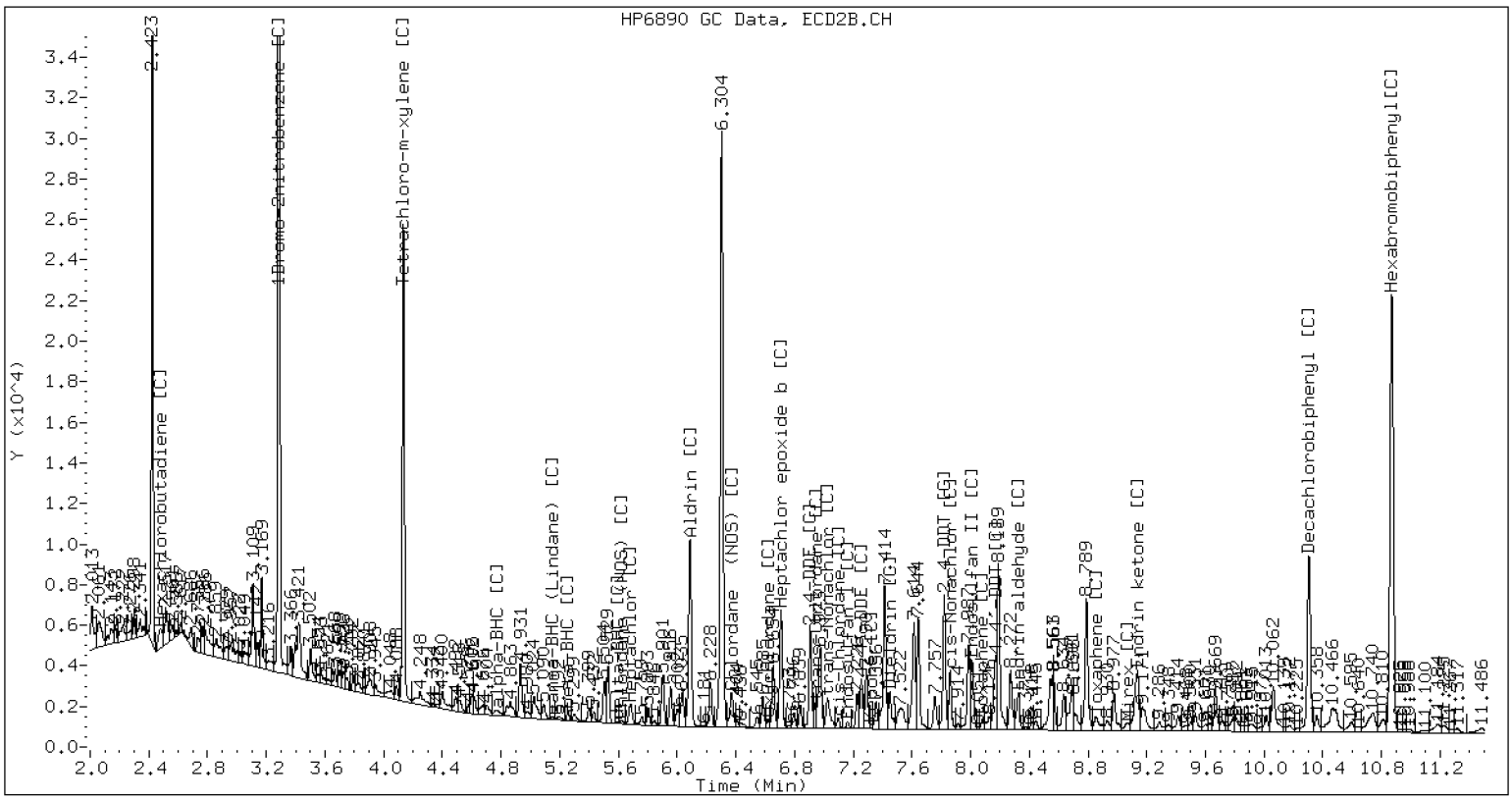


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

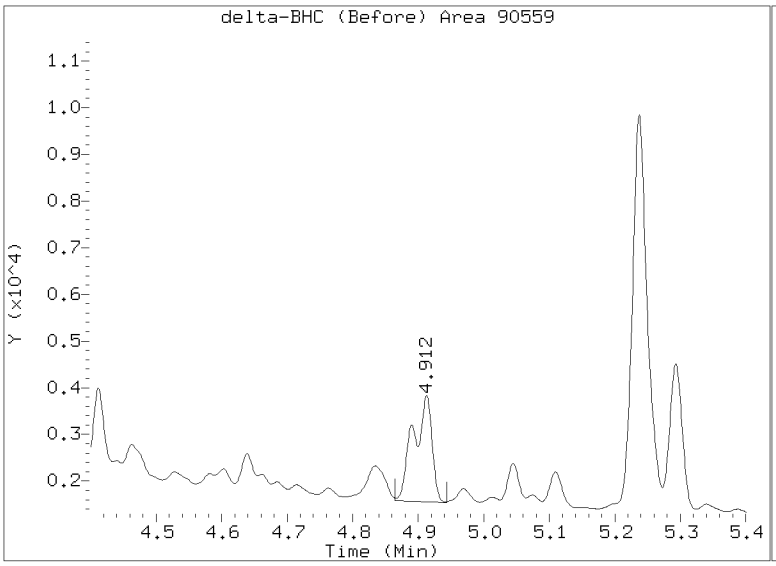
/20230412.b/B20230412.b/23041245.D 23C0752-04 CLP2

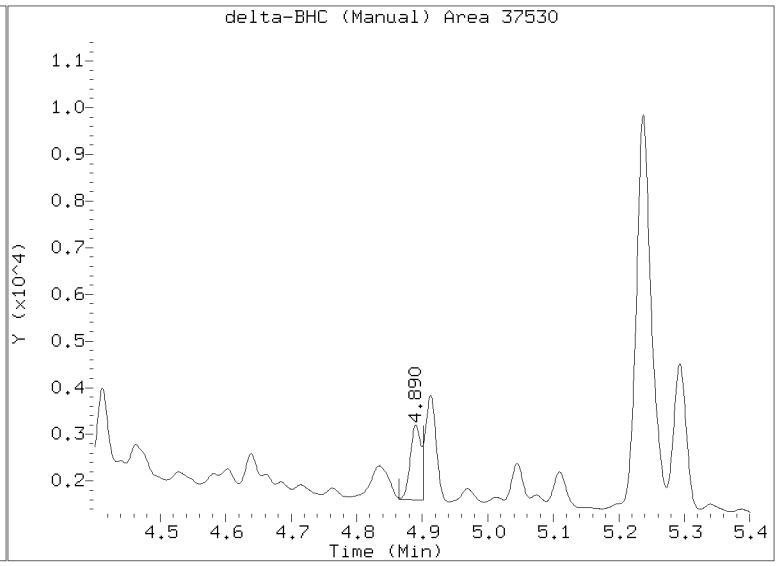


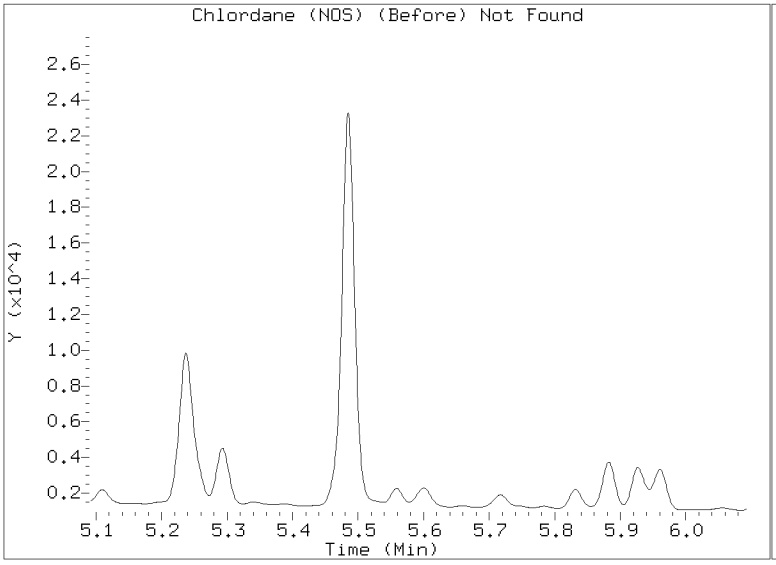
CLP-2 Manual Integration: YES

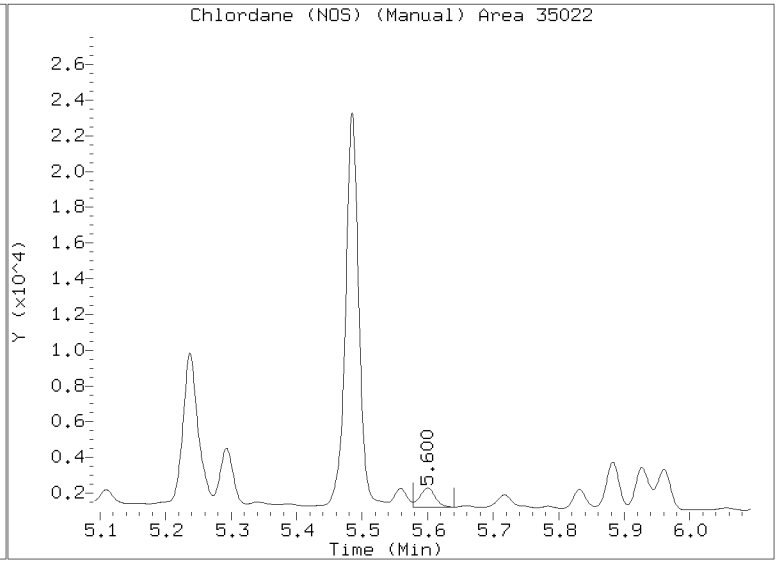
Manual Peak Adjustment Report, STX-CLP

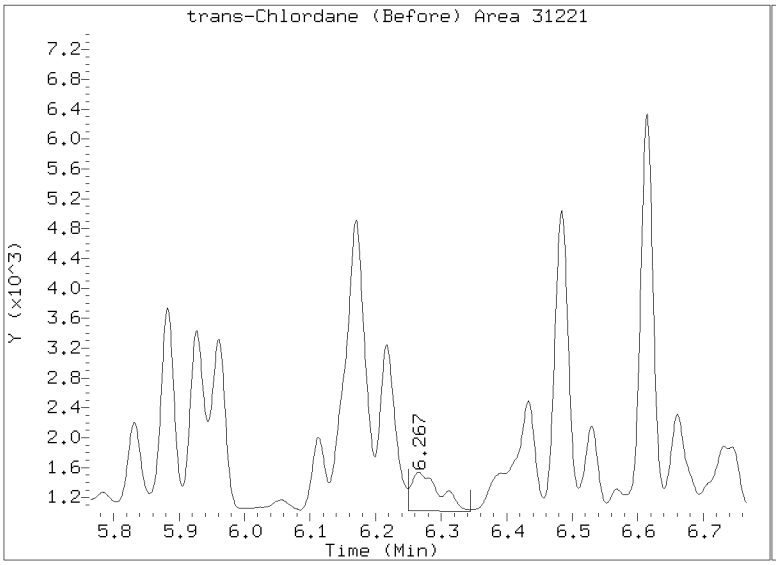
Datafile: /20230412.b/23041245.D
Injection Date: 13-APR-2023 04:07
Lab ID:23C0752-04 Client ID:
Report Date: 04/14/2023 08:21

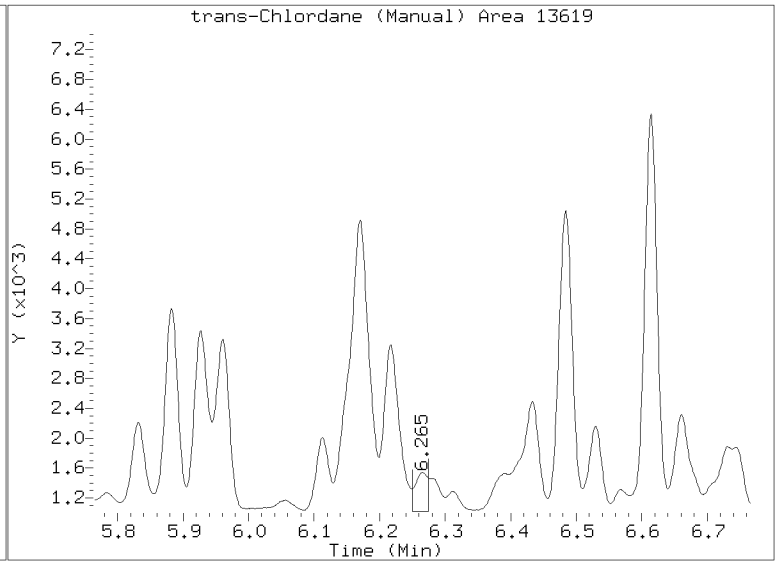












Manual Peak Adjustment Report, STX-CLP

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Injection Date: 13-APR-2023 04:07
Lab ID:23C0752-04 Client ID:
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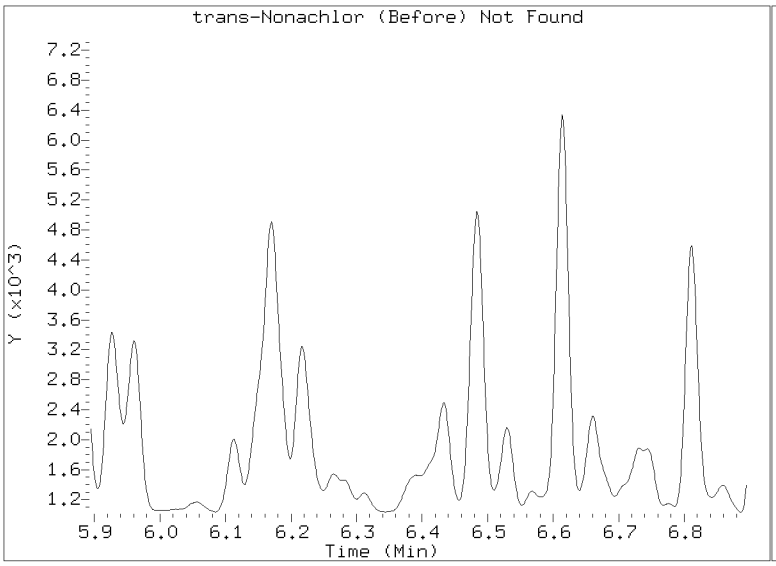
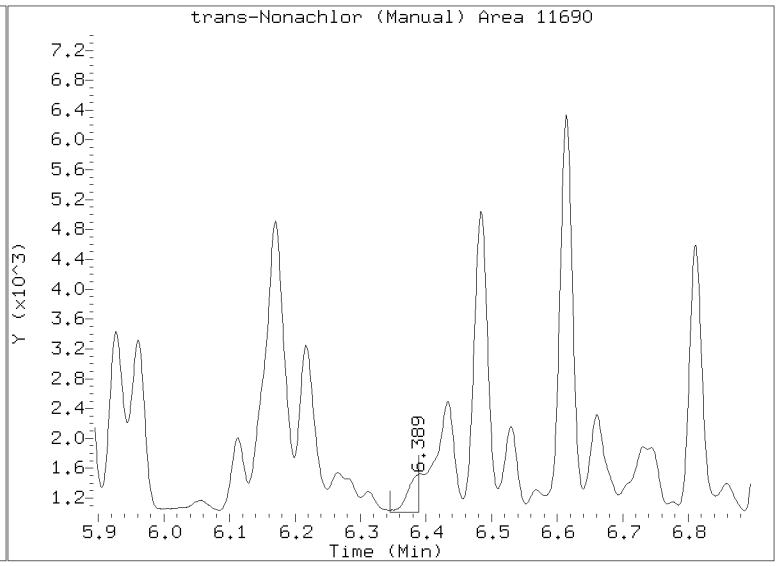
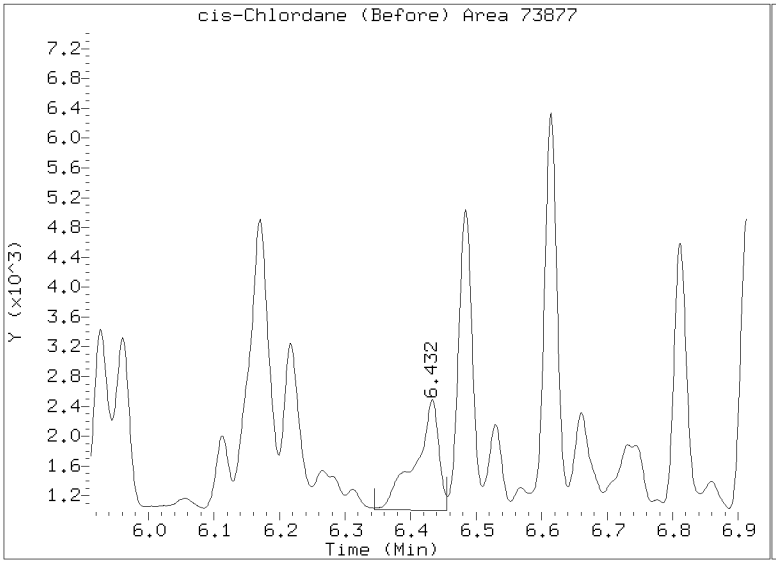
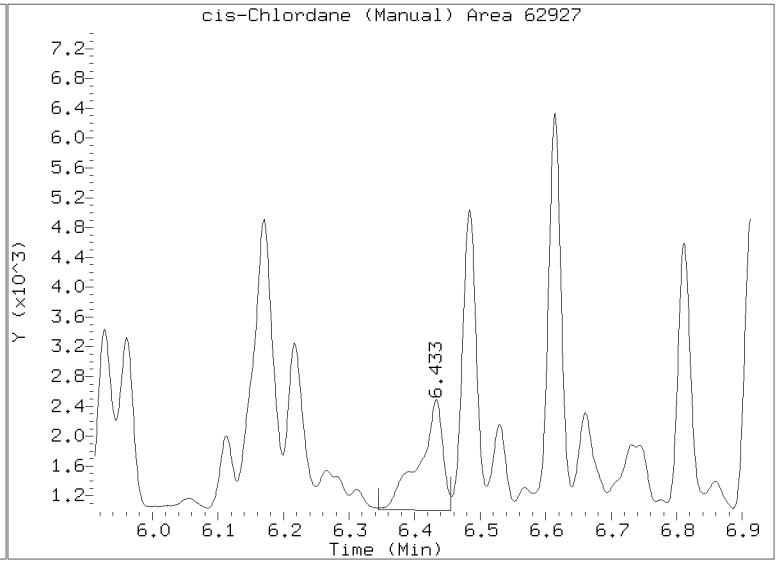
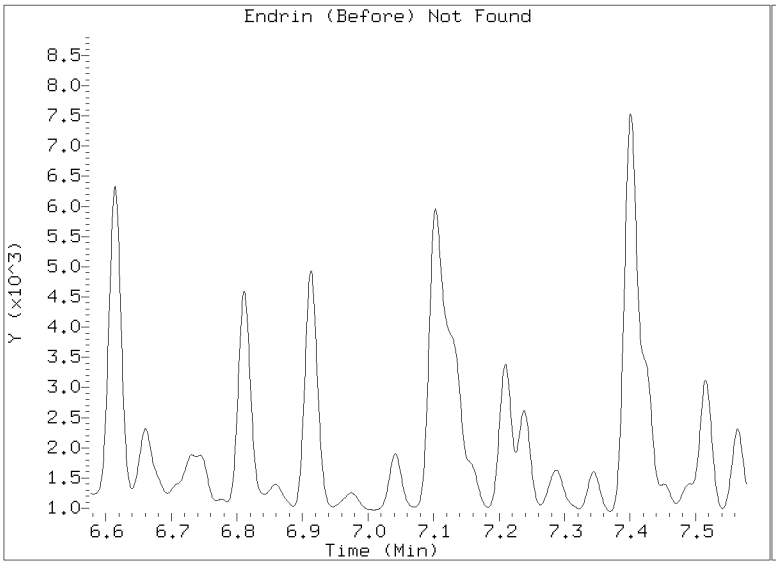
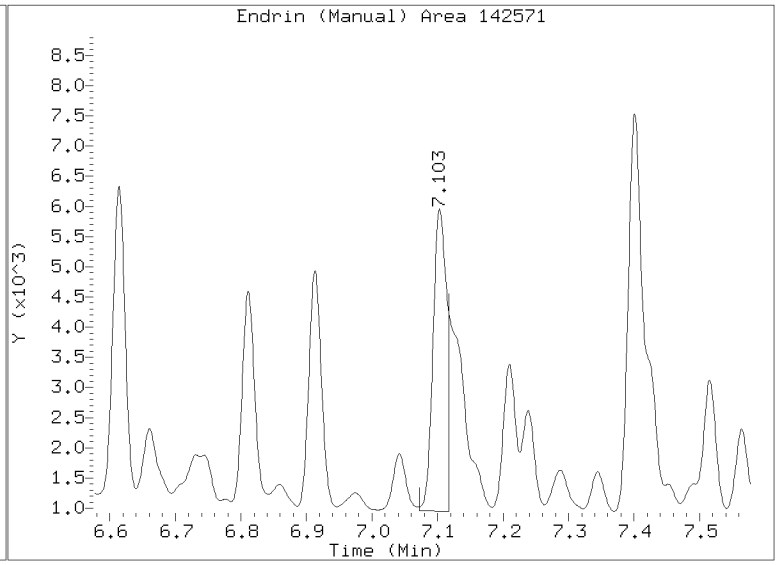






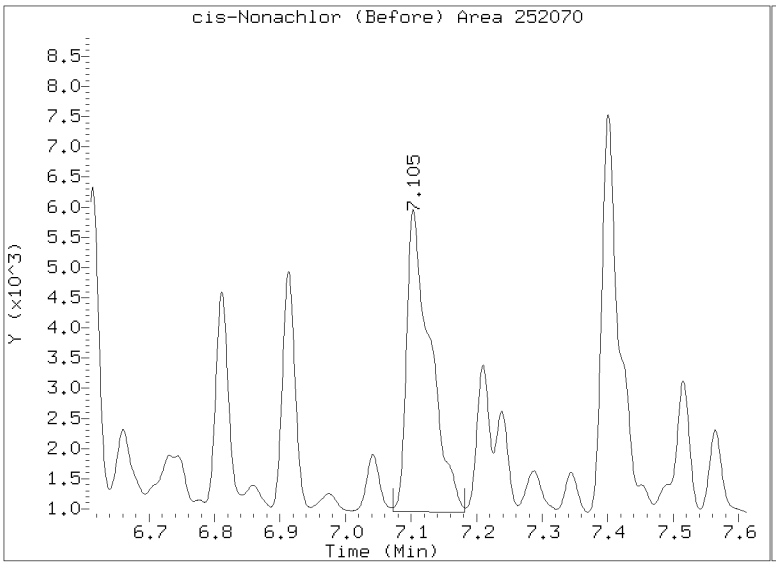


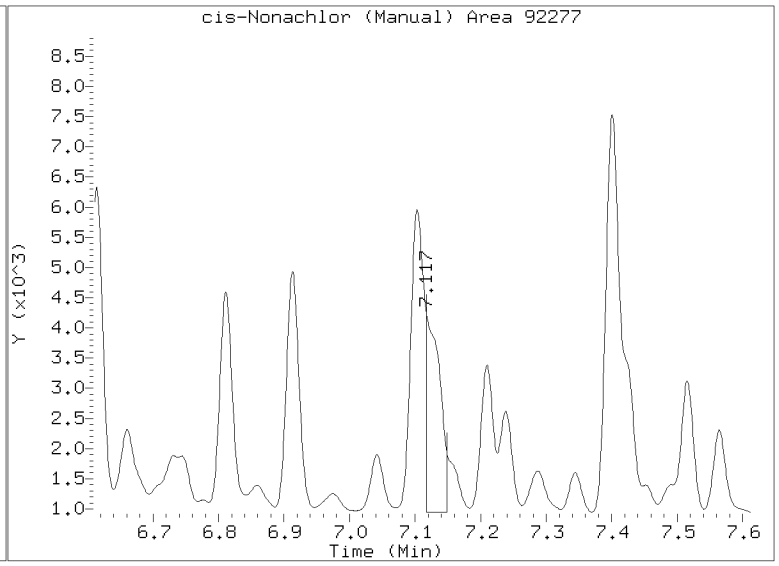


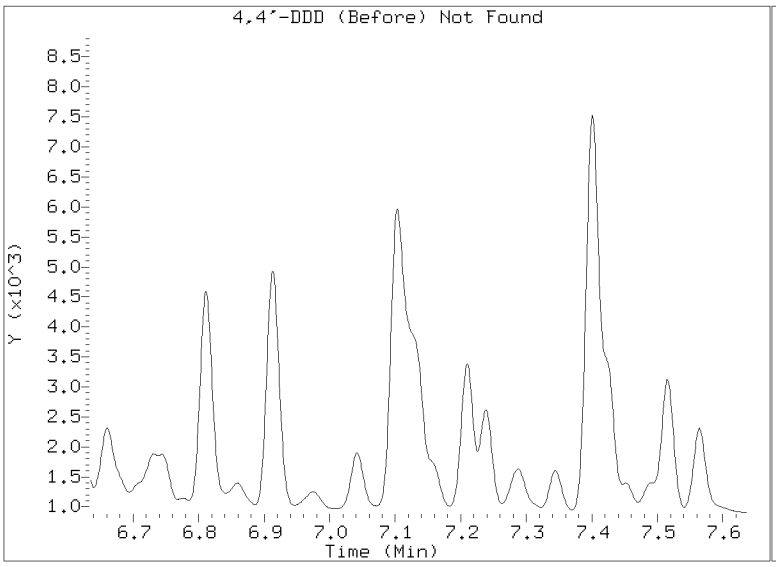


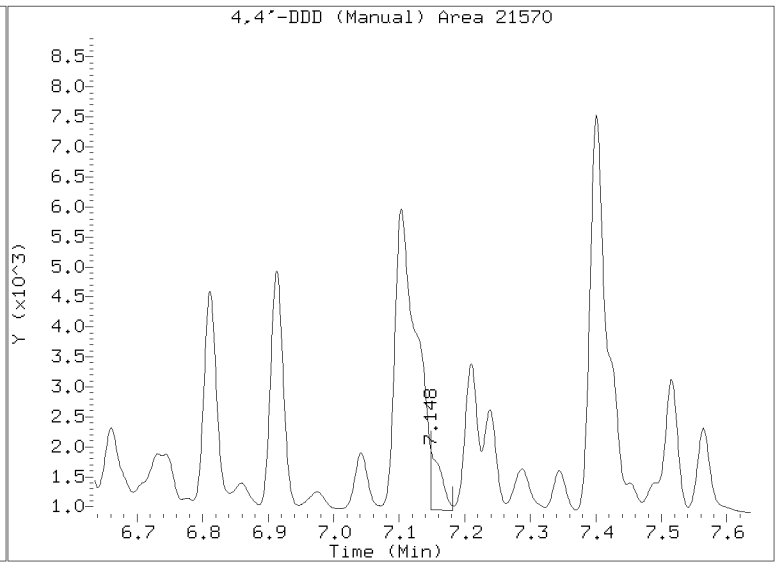
Manual Peak Adjustment Report, STX-CLP

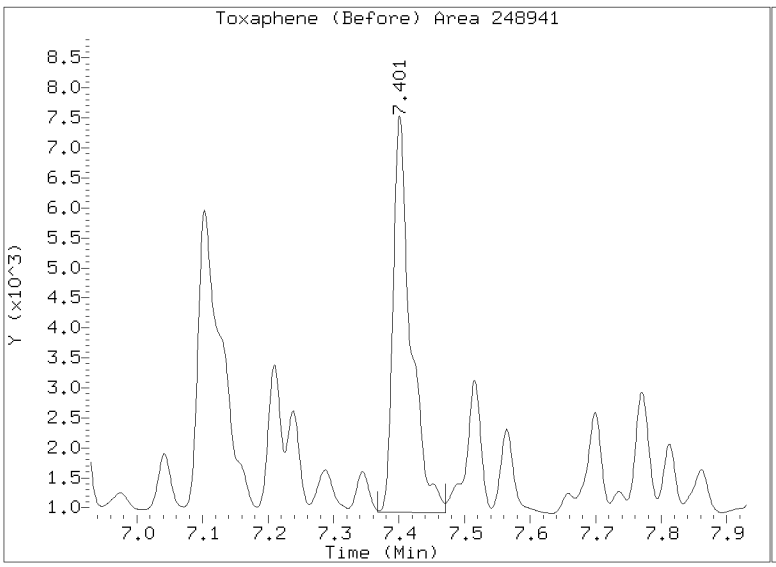
Datafile: /20230412.b/23041245.D
Injection Date: 13-APR-2023 04:07
Lab ID:23C0752-04 Client ID:
Report Date: 04/14/2023 08:21

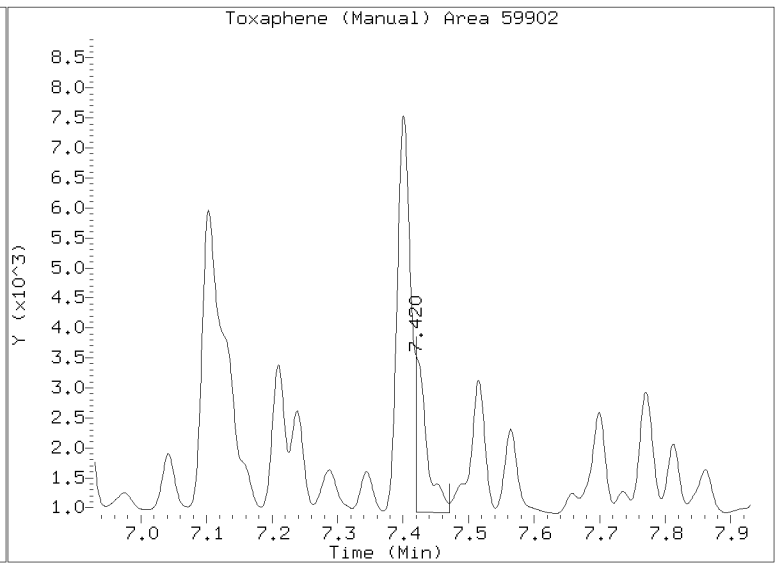












Manual Peak Adjustment Report, STX-CLP

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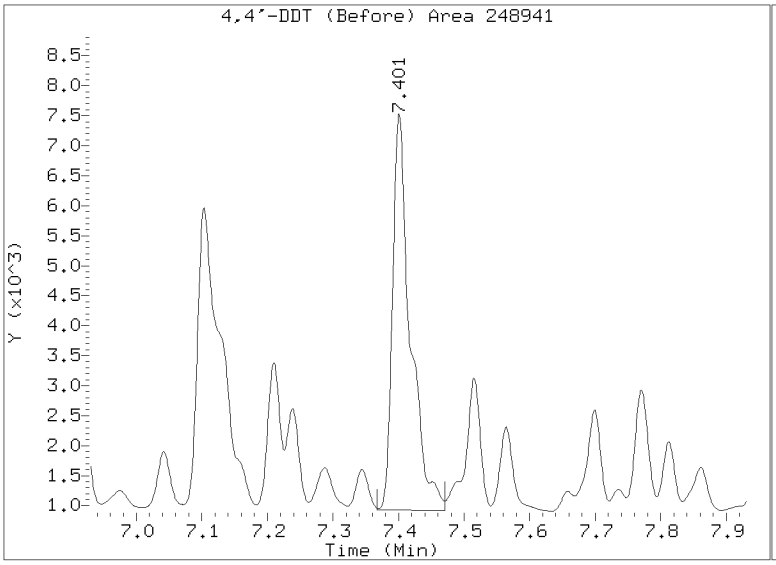
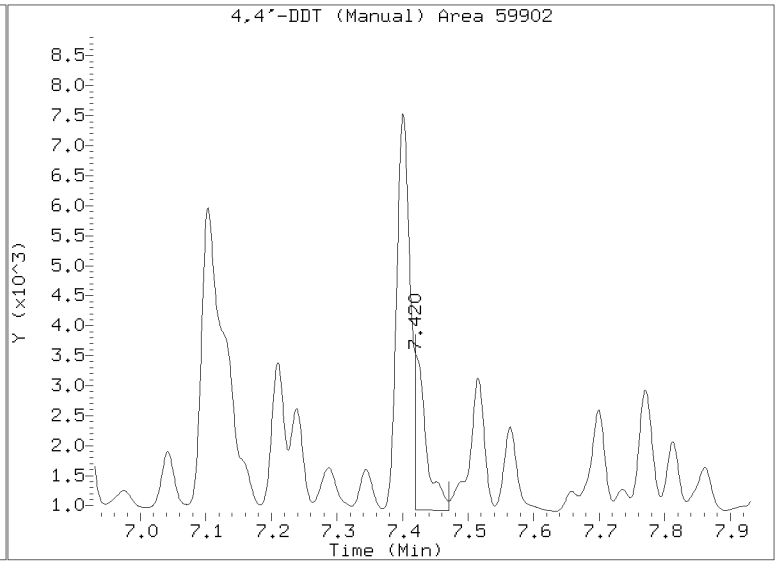
Injection Date: 13-APR-2023 04:07
Lab ID:23C0752-04 Client ID:
Report Date: 04/14/2023 08:21





Manual Peak Adjustment Report, CLP-2

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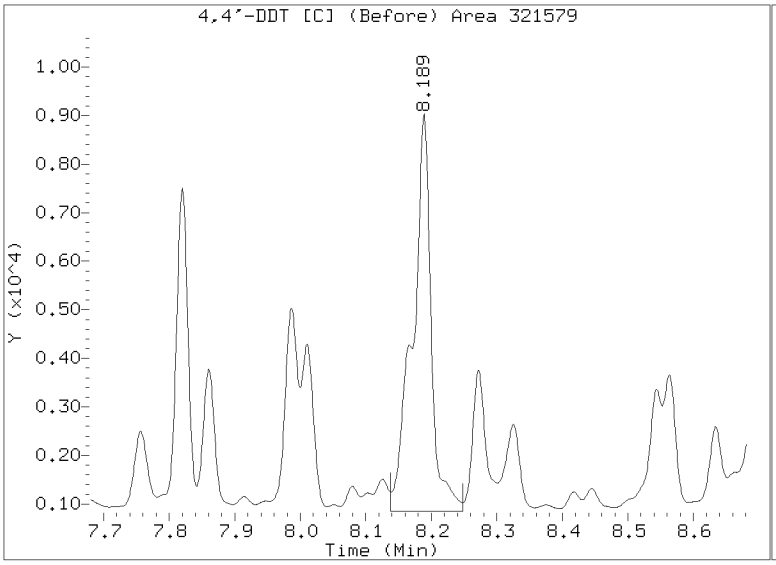
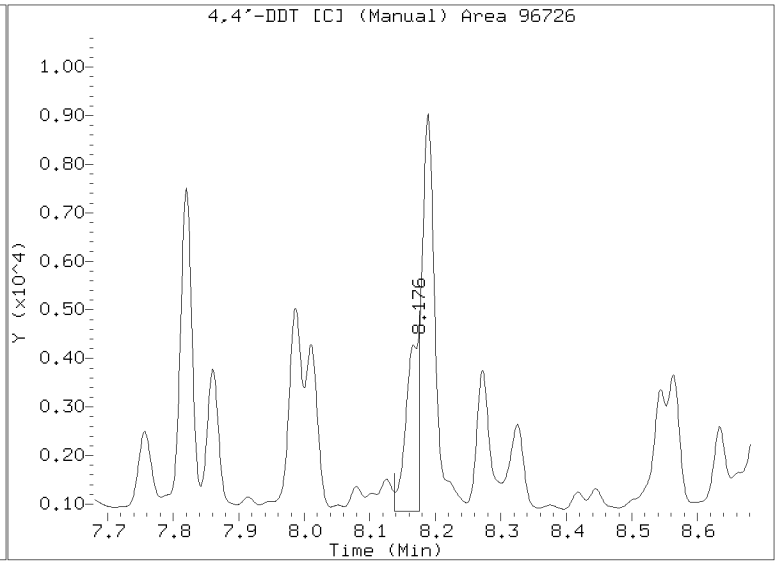
Lab ID:23C0752-04 Client ID:





Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SS1809

ORGANIC ANALYSIS DATA SHEET
EPA 8081B

Laboratory:	Analytical Resources, LLC			SDG:	23C0752
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23C0752-06 A	File ID:	23041246.D
Sampled:	03/30/23 14:30	Prepared:	04/03/23 11:42	Analyzed:	04/13/23 04:25
% Solids:	46.72	Preparation:	EPA 3546 (Microwave)	Initial/Final:	26.79 g Wet / 2.5 mL
Batch:	BLD0009	Sequence:	SLD0187	Calibration:	GD00035
Instrument:	ECD6	Column 1:	STX-CLP	Column 2:	STX-CLPII

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
118-74-1	Hexachlorobenzene	1	1	0.50	0.14	0.50	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9896*	*6.57*	*82.2*	*30 - 160*	
Decachlorobiphenyl	*2*	*7.9896*	*7.25*	*90.8*	*30 - 160*	
Tetrachlorometaxylene	*1*	*7.9896*	*6.20*	*77.6*	*30 - 160*	
Tetrachlorometaxylene	*2*	*7.9896*	*5.71*	*71.5*	*30 - 160*	

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041246.D
Data file 2: /20230412.b/B20230412.b/23041246.D
Method: \20230412.b\PEST.m
Compound Sublist: wpest.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: 23C0752-06
Client ID:
Injection Date: 13-APR-2023 04:25
Report Date: 04/14/2023 08:21
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.312	-0.021	81651	4.778	0.016	7584	3.95	0.27	174.4*	alpha-BHC
----			5.256	0.026	13771	0.00	1.23	---	beta-BHC
4.913	0.012	116205	----			6.20	0.00	---	delta-BHC
4.640	0.003	50990	5.151	-0.001	3729	2.80	0.15	179.6*	gamma-BHC (Lindane)
5.110	-0.014	28167	5.683	0.012	42896	1.67	1.98	16.8	Heptachlor
----			6.088	0.017	43852	0.00	1.95	---	Aldrin
----			6.709	-0.020	204870	0.00	10.36	---	Heptachlor epoxide b
----			7.162	-0.010	12144	0.00	0.72	---	Endosulfan I
6.811	-0.017	138361	7.464	-0.002	15396	9.49	0.83	167.7*	Dieldrin N
6.484	-0.005	146186	7.256	-0.001	77060	10.64	4.38	83.3*	4,4'-DDE
7.103	0.025	162323	----			14.03	0.00	---	Endrin
7.288	-0.026	27454	8.011	0.010	108514	2.53	8.12	104.9*	Endosulfan II
----			----			0.00	0.00	---	4,4'-DDD
8.168	-0.009	12388	----			1.21	0.00	---	Endosulfan sulfate
7.419	-0.012	77147	8.188	0.008	263597	6.90	20.21	98.2*	4,4'-DDT MN
7.948	0.028	36086	----			7.53	0.00	---	Methoxychlor
8.425	-0.027	45727	9.138	0.019	136298	3.92	10.14	88.5*	Endrin ketone
7.772	0.029	66158	8.326	-0.005	56861	8.00	5.89	30.4	Endrin aldehyde
6.269	0.003	37757	6.943	0.004	28680	2.50	1.51	49.2*	trans-Chlordane
6.406	-0.007	30007	7.098	-0.002	19256	1.98	1.03	62.9*	cis-Chlordane M
2.289	-0.020	47116	2.480	0.027	12745	2.21	0.50	126.1*	Hexachlorobutadiene
4.173	-0.002	57397	4.610	-0.012	19058	3.14	0.78	120.5*	Hexachlorobenzene N
----			6.618	-0.006	11077	0.00	0.73	---	Oxychlordane
----			6.907	-0.014	166448	0.00	15.06	---	2,4-DDE
----			7.026	-0.013	82958	0.00	5.61	---	trans-Nonachlor
6.662	-0.019	55670	7.448	-0.029	55328	8.18	6.29	26.1	2,4-DDD N
6.975	0.016	14435	7.820	0.021	202441	1.76	20.12	167.9*	2,4-DDT
7.115	0.004	152156	7.861	0.002	91668	12.30	5.99	69.0*	cis-Nonachlor M
8.073	-0.012	140774	9.073	-0.028	10479	18.46	1.19	175.8*	Mirex M
1.795	0.021	6101	1.668	-0.008	63735	0.00	0.00	---	Hexachloroethane
6.615	0.027	184265	7.357	0.021	43303	0.00	0.00	---	Kepone
3.818	-0.001	410766	4.135	-0.001	520290	31.03	28.59	8.2	Tetrachloro-m-xylene
9.367	0.001	259781	10.306	0.000	308092	32.89	36.32	9.9	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	946038	9.5
Hexabromobiphenyl	663237	669666	1.0

Column 2

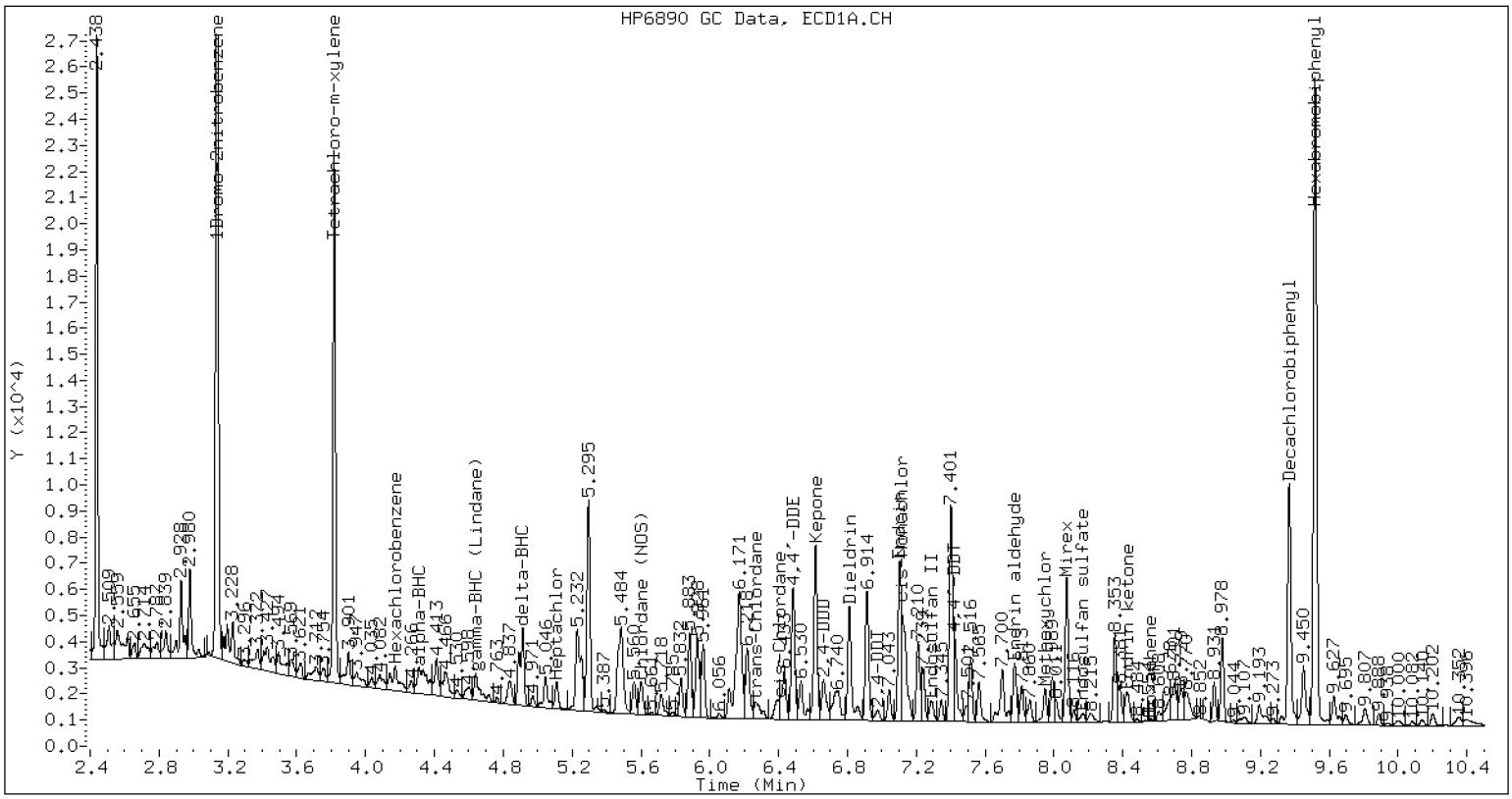
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1323268	-10.6
Hexabromobiphenyl	870561	702752	-19.3

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Toxaphene	1	7.419	-0.011	77147	311.3	1	7.448	0.008	55328	244.5	
Toxaphene	2	---			0.000	2	8.080	-0.003	22496	33.7	
Toxaphene	3	8.073	-0.005	140774	311.3	3	8.326	-0.010	56861	109.1	
Toxaphene	4	8.425	-0.008	45727	128.2	4	8.855	0.016	11612	20.7	
Toxaphene	5	8.561	-0.014	2204	10.3	5	9.239	0.029	358	1.2	
Total STX-CLPAve (4 peaks): 190.275						Total CLP2Ave (5 peaks): 81.839				RPD = 80*	
Corrected Ave (4 peaks): 190.275						Corrected Ave (4 peaks): 41.162				RPD = 129*	

		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Chlordane (NOS)	1	---			0.000	1	---			0.000	
Chlordane (NOS)	2	---			0.000	2	---			0.000	
Chlordane (NOS)	3	---			0.000	3	---			0.000	
STX-CLPAve: <3 Quant Peaks						CLP2Ave: <3 Quant Peaks					

/20230412.b/23041246.D 23C0752-06 STX-CLP 13-APR-2023 04:25 1ul



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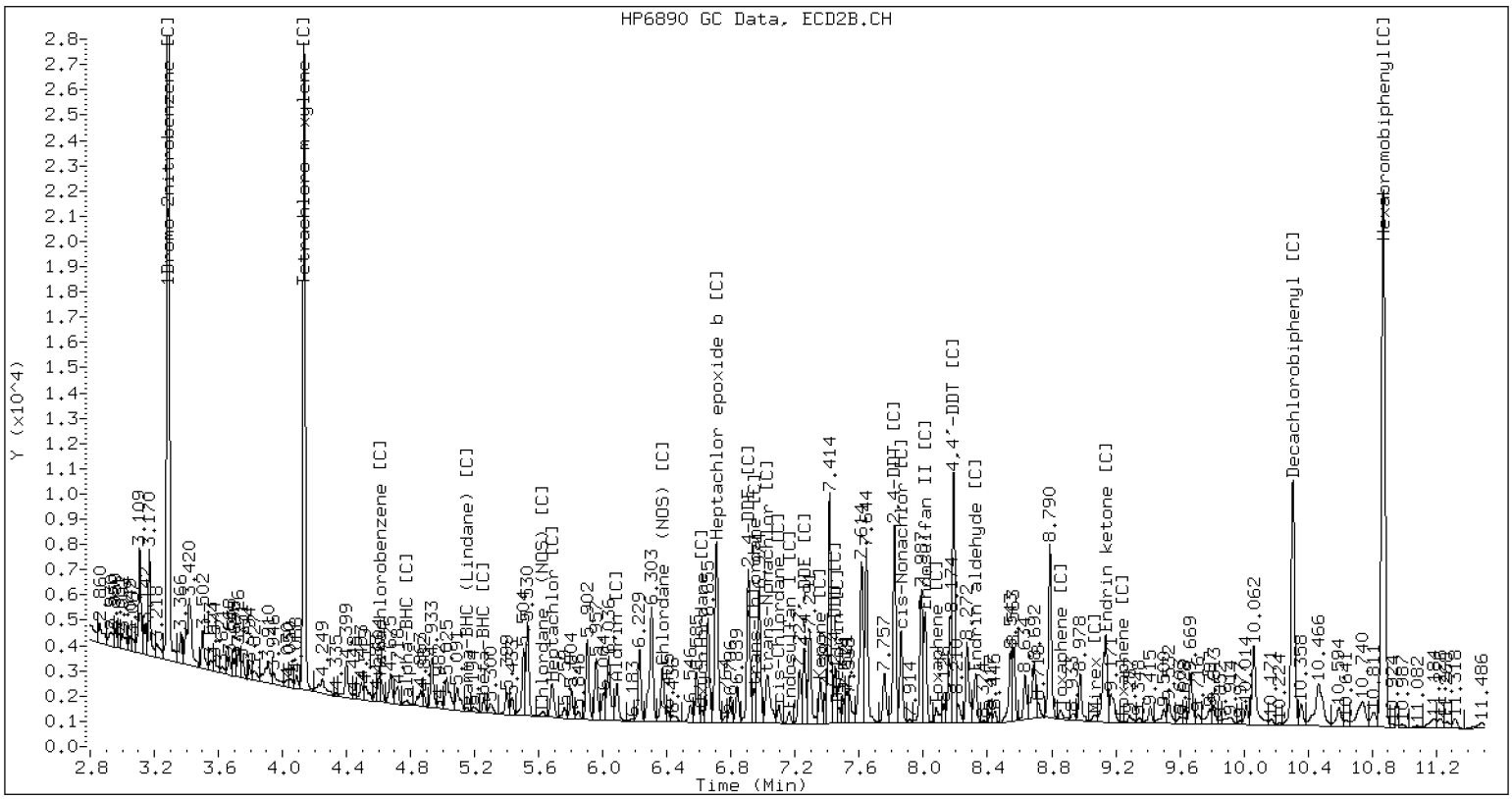
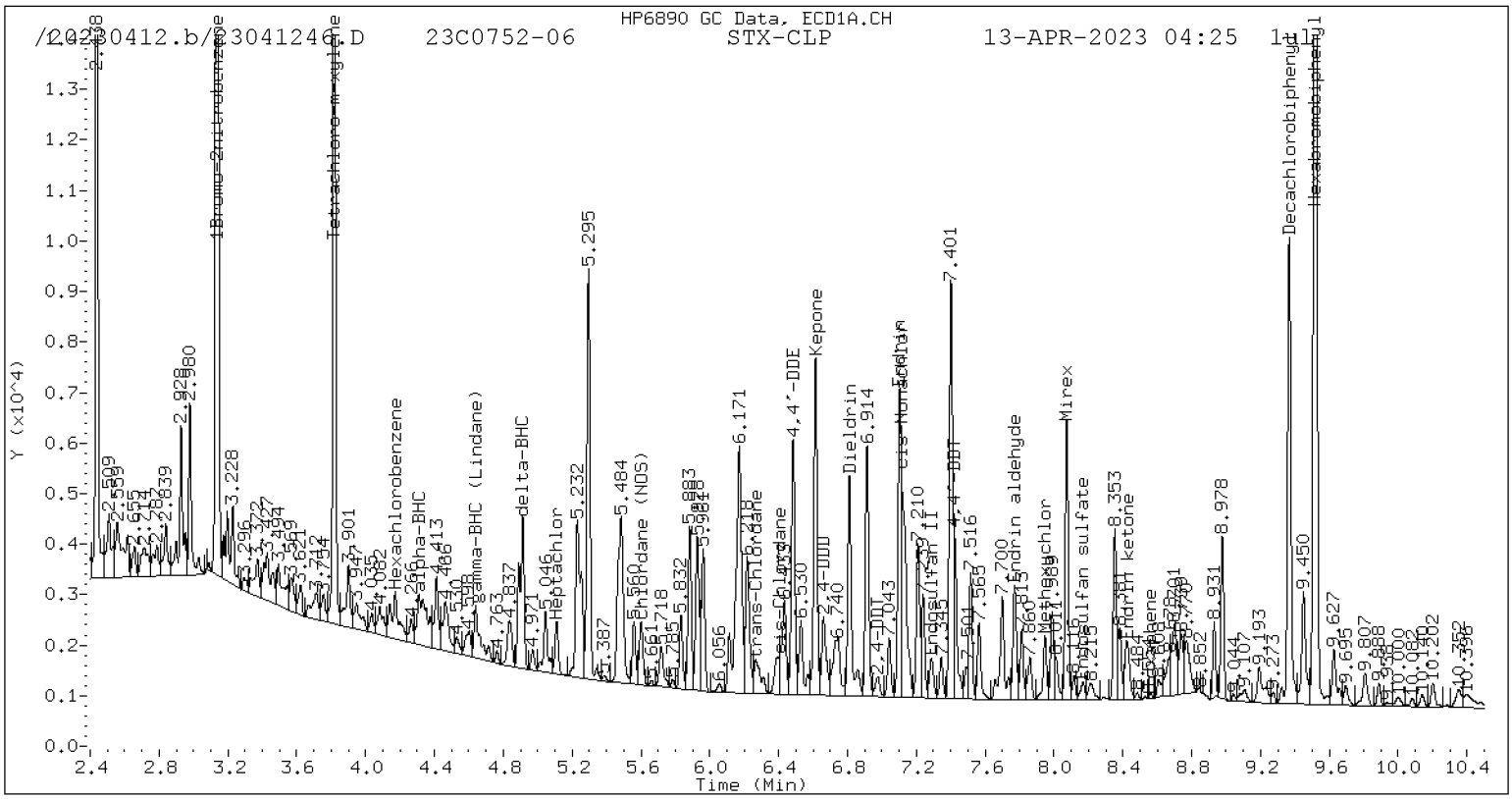
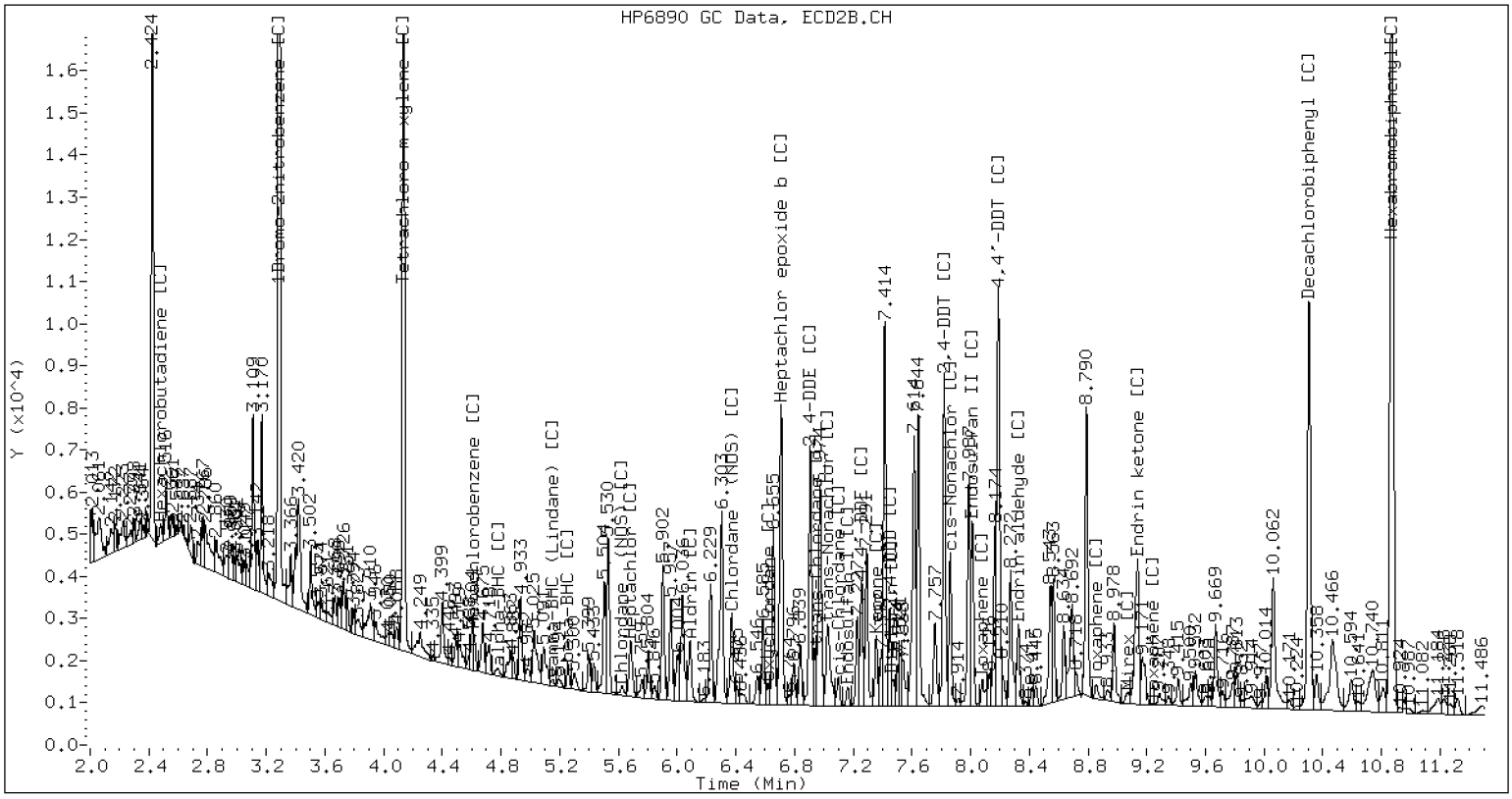


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

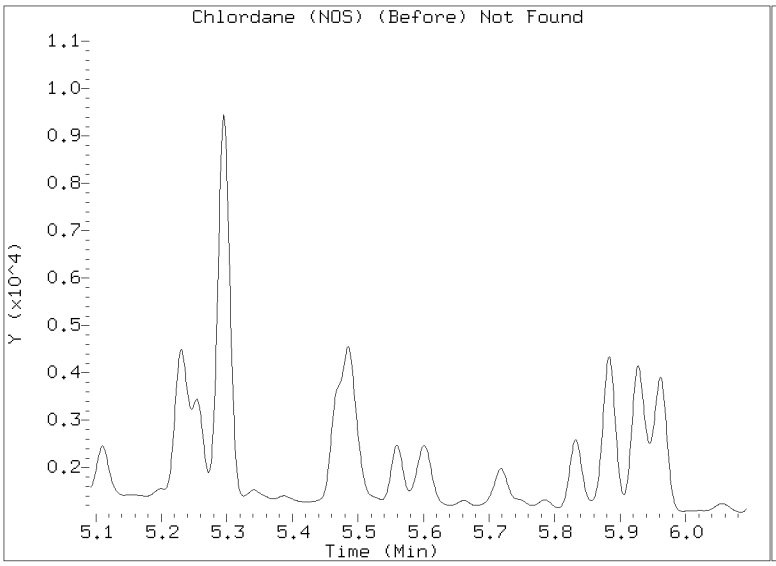
/20230412.b/B20230412.b/23041246.D 23C0752-06 CLP2

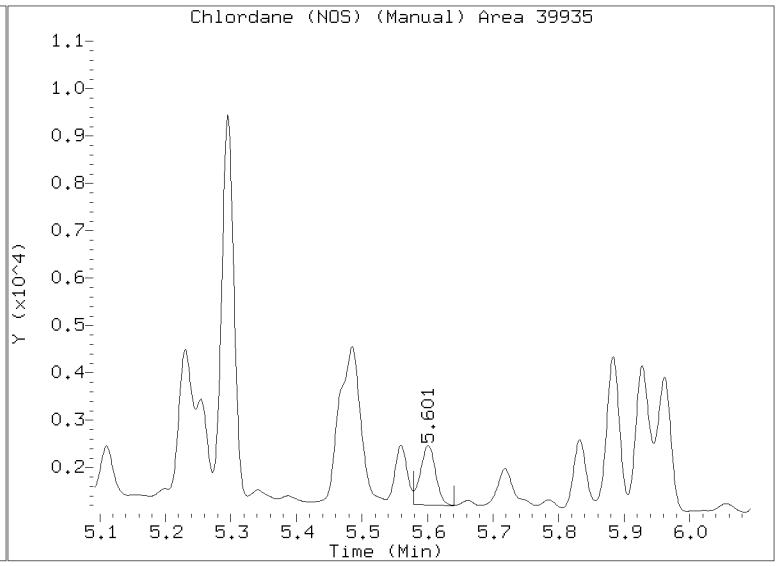


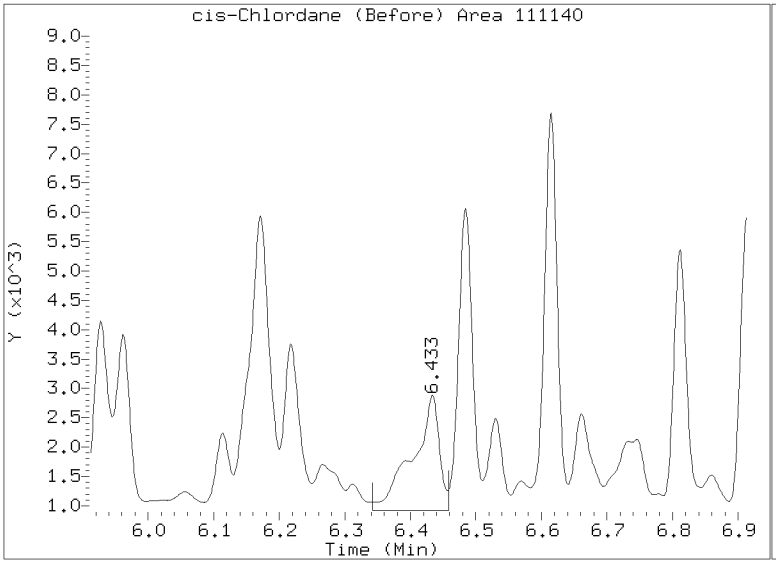
CLP-2 Manual Integration: YES

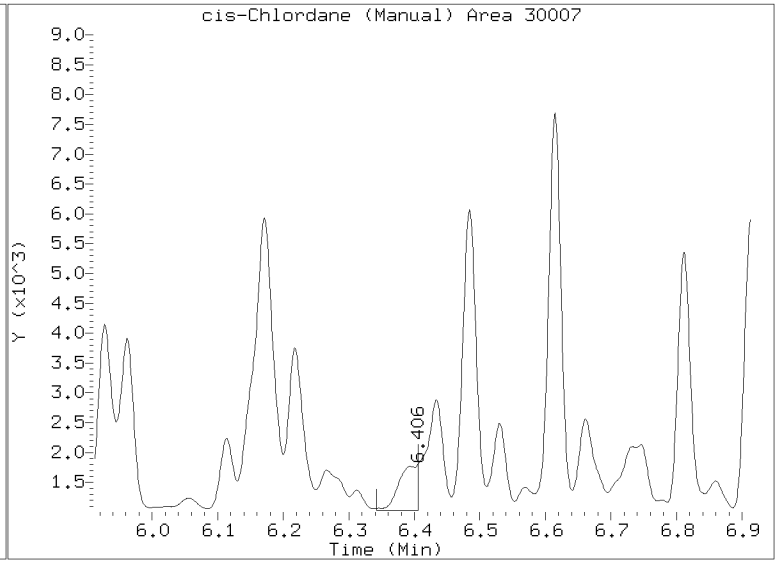
Manual Peak Adjustment Report, STX-CLP

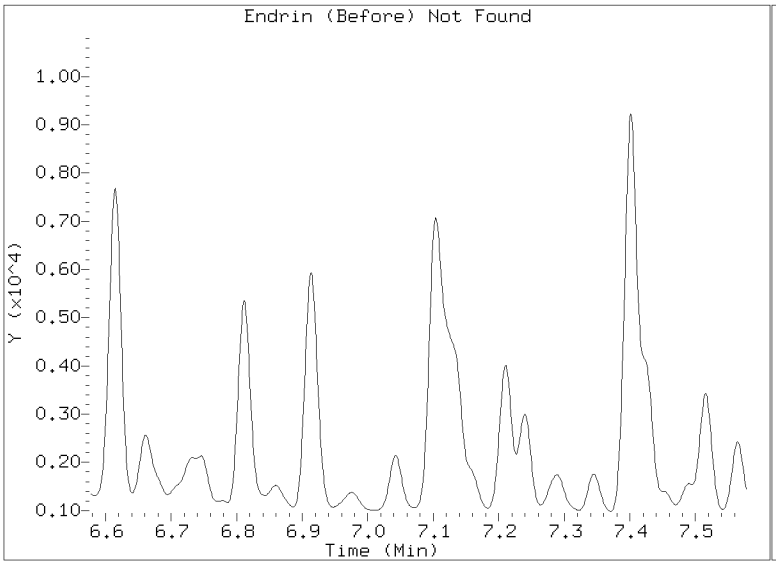
Datafile: /20230412.b/23041246.D
Injection Date: 13-APR-2023 04:25
Lab ID:23C0752-06 Client ID:
Report Date: 04/14/2023 08:21

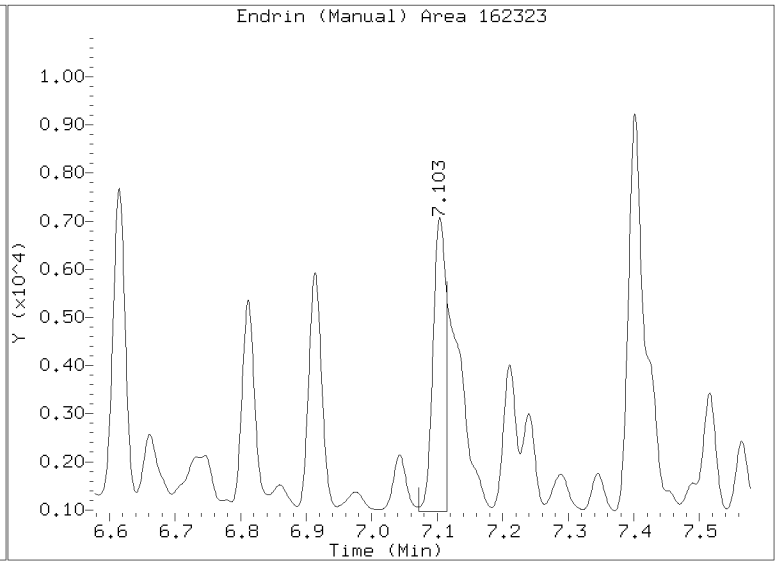












Manual Peak Adjustment Report, STX-CLP

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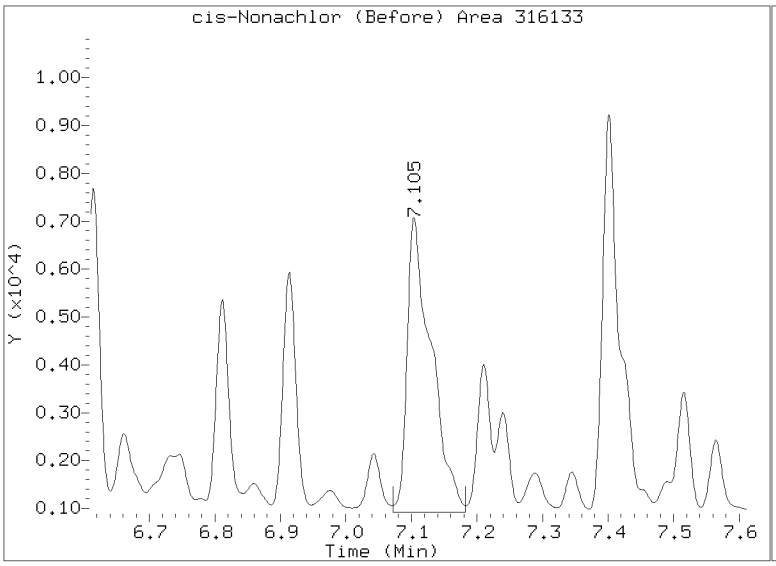
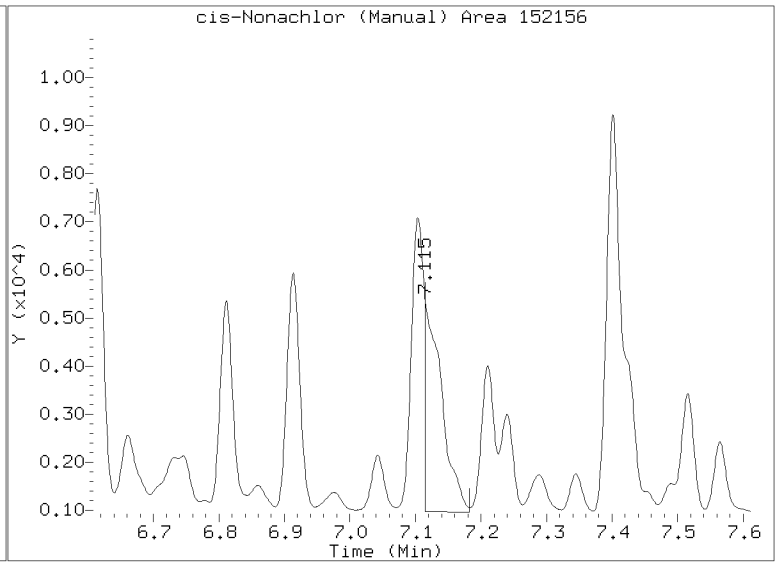
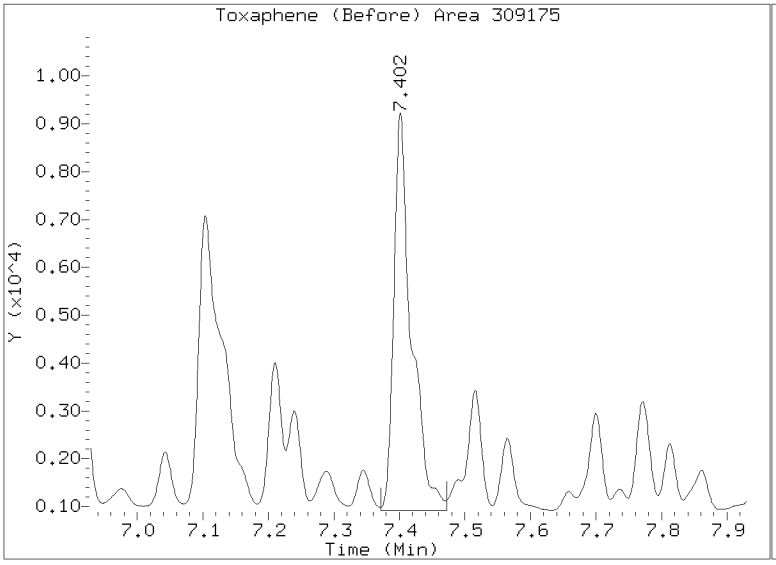
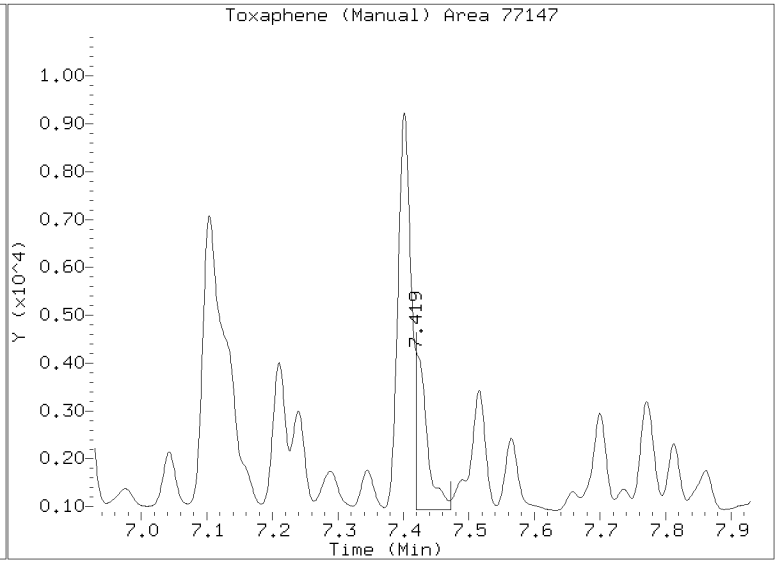
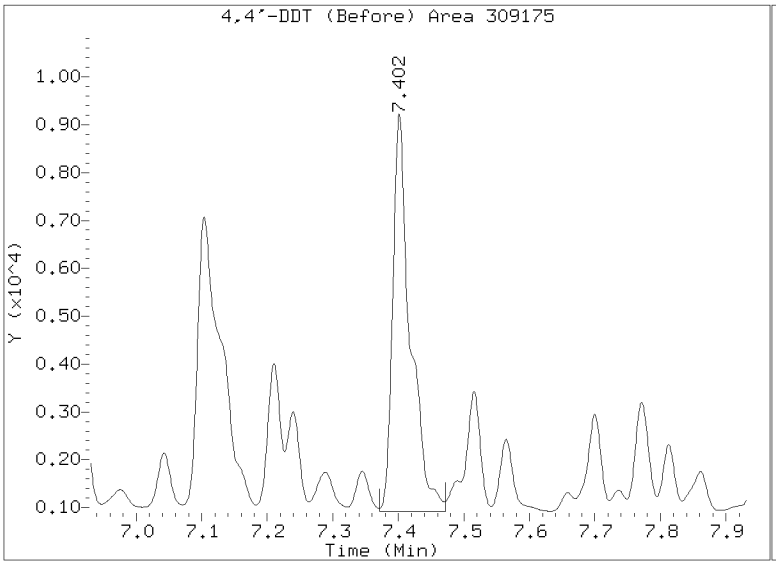
Injection Date: 13-APR-2023 04:25
Lab ID:23C0752-06 Client ID:
Report Date: 04/14/2023 08:21

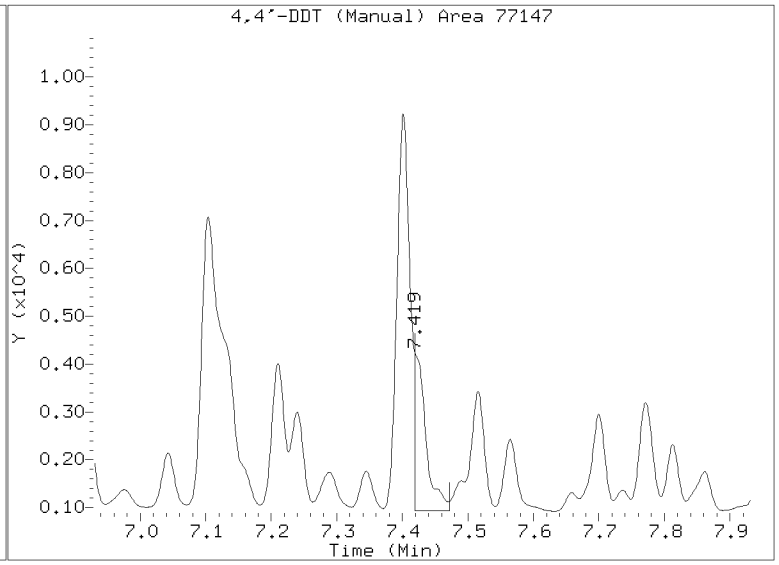












Manual Peak Adjustment Report, STX-CLP

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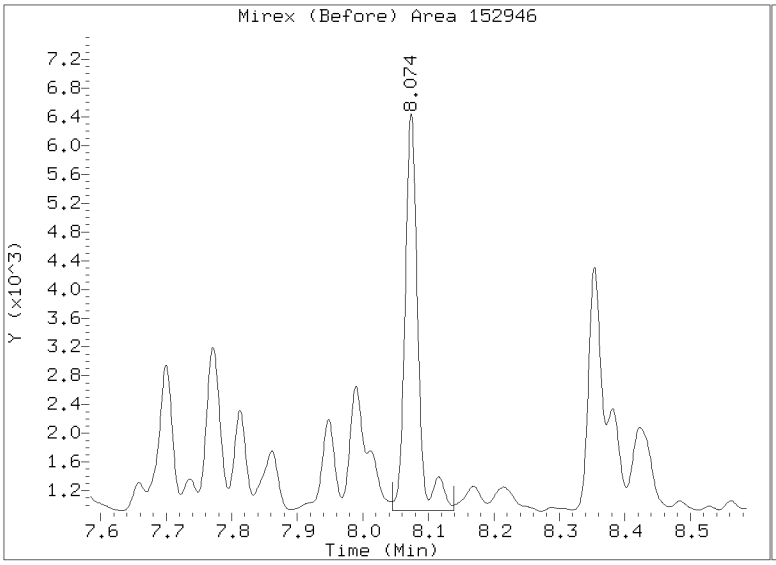
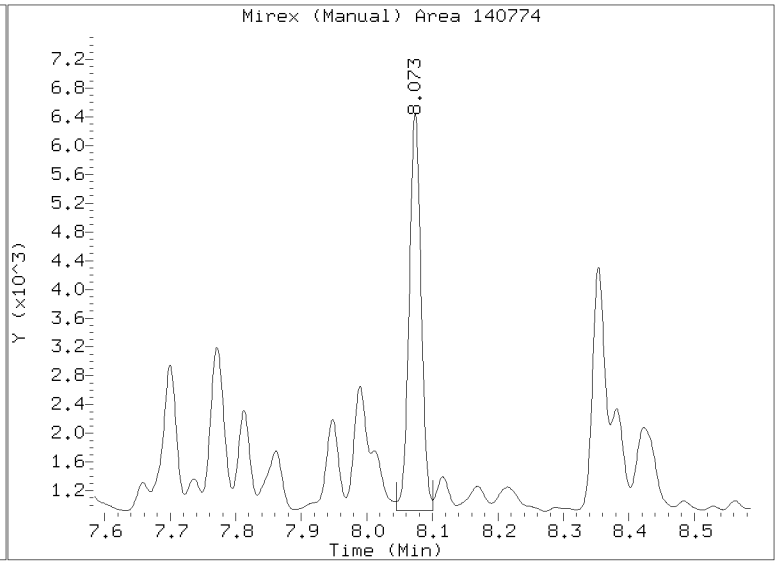
Injection Date: 13-APR-2023 04:25
Lab ID:23C0752-06 Client ID:
Report Date: 04/14/2023 08:21





Manual Peak Adjustment Report, CLP-2

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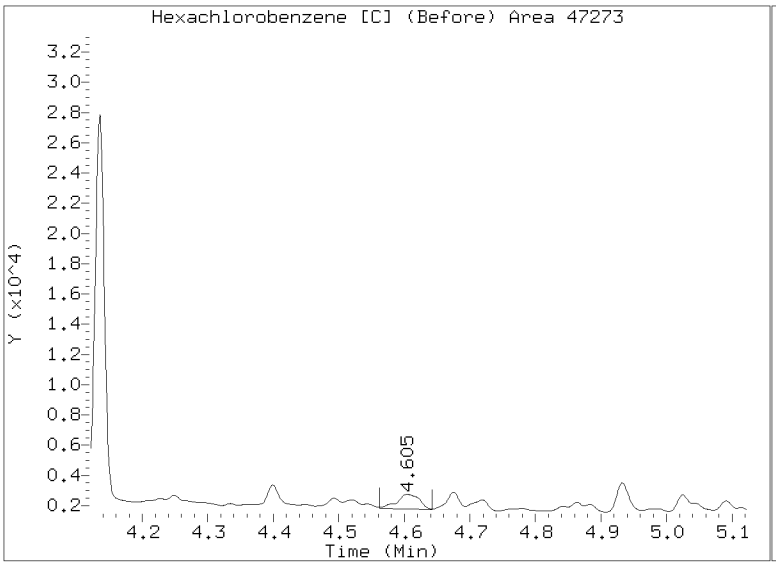
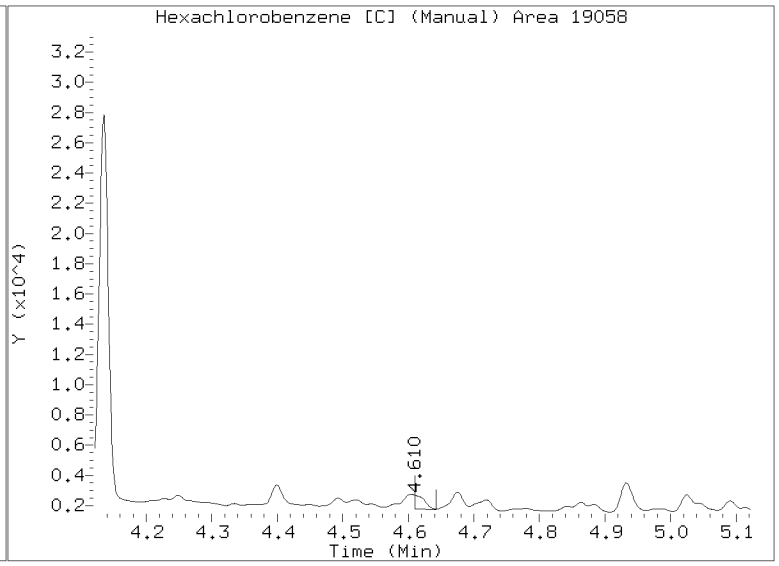
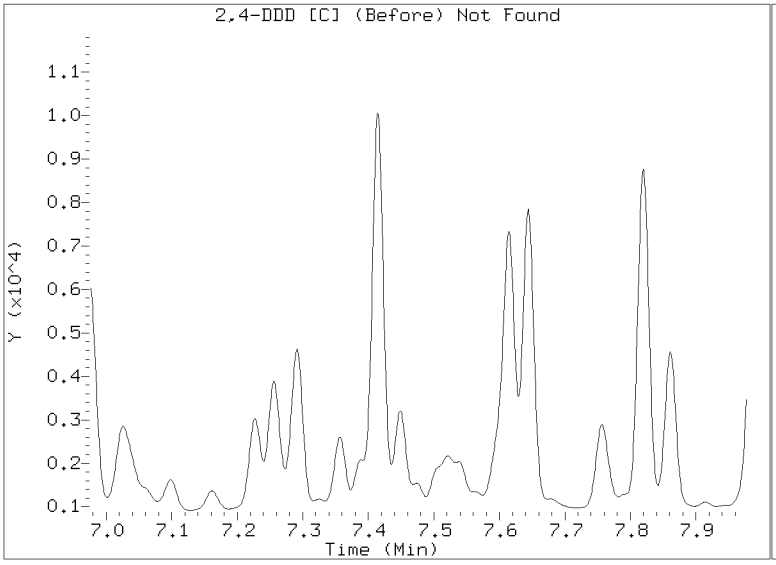
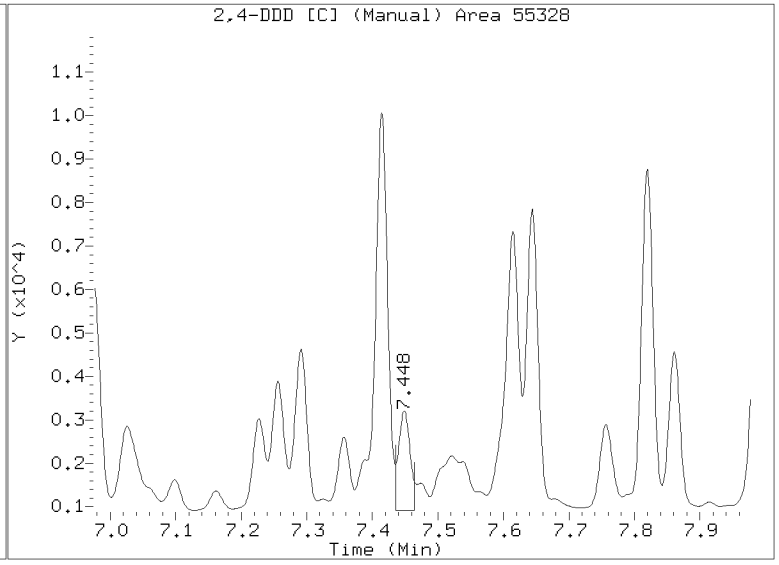
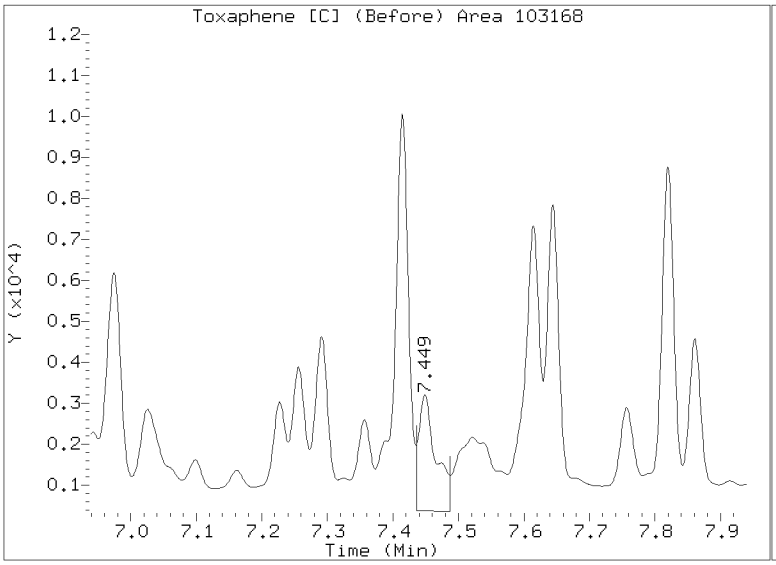
Lab ID:23C0752-06 Client ID:

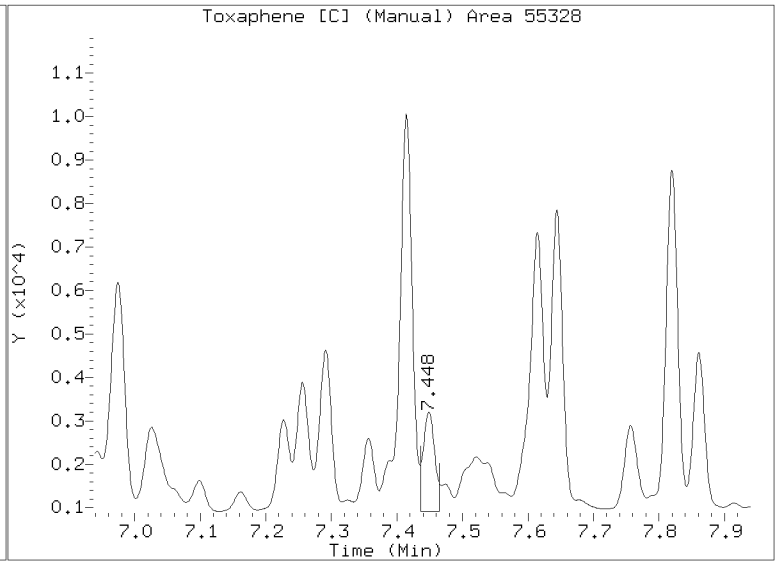






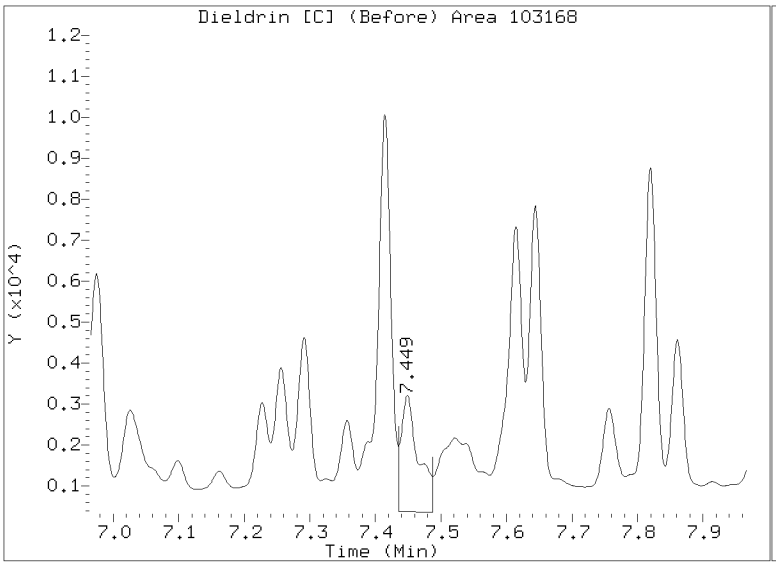


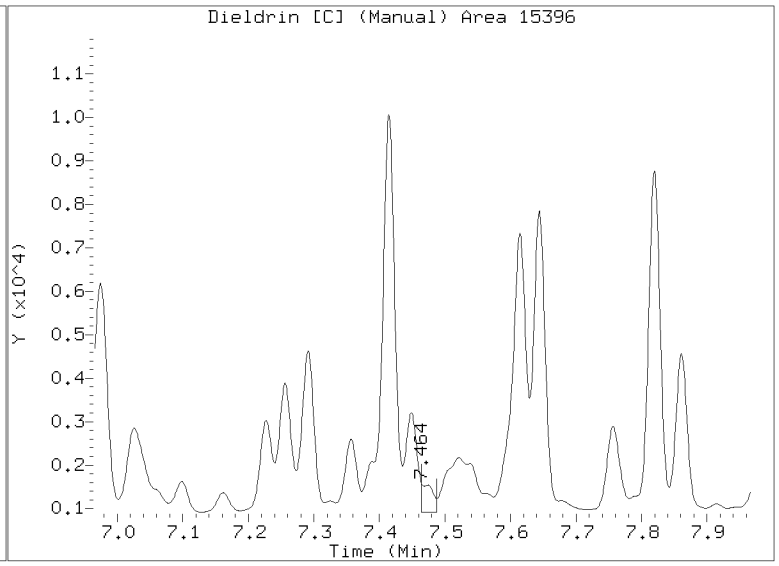


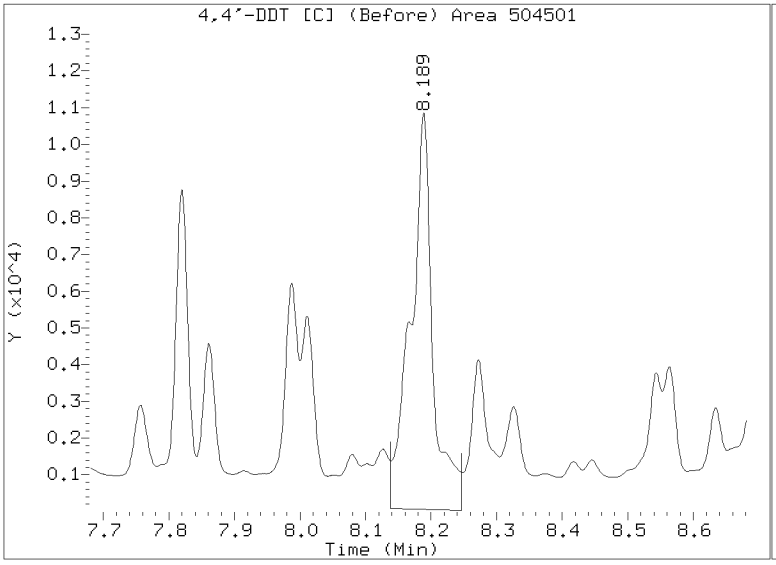


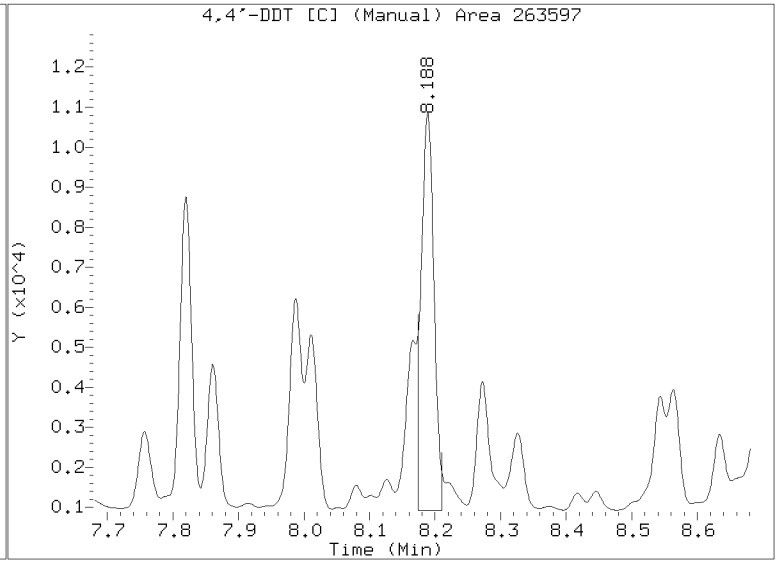
Manual Peak Adjustment Report, CLP-2

Datafile: /20230412.b/B20230412.b/23041246.D
Injection Date: 13-APR-2023 04:25
Lab ID:23C0752-06 Client ID:









PREPARATION BATCH SUMMARY

EPA 8081B

Laboratory: Analytical Resources, LLC SDG: 23C0752

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

Batch: BLD0009 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1026	23C0752-01	23041242.D	04/03/23 11:42	
LDW23-SS1125	23C0752-02	23041243.D	04/03/23 11:42	
LDW23-SS1132	23C0752-03	23041244.D	04/03/23 11:42	
LDW23-SS1810	23C0752-04	23041245.D	04/03/23 11:42	
LDW23-SS1809	23C0752-06	23041246.D	04/03/23 11:42	
Blank	BLD0009-BLK1	23041237.D	04/03/23 11:42	
LCS	BLD0009-BS1	23041238.D	04/03/23 11:42	
LCS Dup	BLD0009-BSD1	23041239.D	04/03/23 11:42	
LDW23-SS1810	BLD0009-MS1	23041240.D	04/03/23 11:42	
LDW23-SS1810	BLD0009-MSD1	23041241.D	04/03/23 11:42	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLD0009

Prepared using: EPA 3546 (Microwave)

8081B Pest (PSDDA) in Solid (Version:HCB Only)

Matrix: Solid Date Prepared: 04/03/23 Balance ID: B146462614 Set Up By: GO 4/3/23

WO Comments

23C0752: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

The following standards may be missing from this batch!

Designator	Description
62	Toxaphene
44	WND
QLS 10	QLS Spike

Analysis: 8081B Pest (PSDDA)

Lab Number & Container	% Solids	Initial (g) Target Dry: 12.5 (Wet) Actual	(REQ) GPC (1:1) 1 2 (3)	(Yes / No) Acid Clean 5mL	(REQ) Sulfur C/U 4.5mL+0.5 mL ~~Ethyl Acetate~~	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
23C0752-01 A	50.2	(24.88) 24.89	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
23C0752-02 A	49.7	(25.17) 25.17	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
23C0752-03 A	50.7	(24.67) 24.70	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
23C0752-04 A	52.7	(23.72) 23.73	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
23C0752-06 A	46.7	(26.76) 26.79	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 12.5 (Wet) Actual	(REQ) GPC (1:1) 1 2 (3)	(Yes / No) Acid Clean 5mL	(REQ) Sulfur C/U 4.5mL+0.5 mL ~~Ethyl Acetate~~	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BLD0009-BLK1	100.0	(12.50) 12.50	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
BLD0009-BS1	100.0	(12.50) 12.50	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
BLD0009-BSD1	100.0	(12.50) 12.50	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
BLD0009-MS1	52.7	(23.72) 23.72	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	Use 23C0752-04
BLD0009-MSD1	52.7	(23.72) 23.72	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	Use 23C0752-04

04/03/23 — Client ID Verified By — Date

4/8/23 — Preparation Reviewed By — Date

04/03/23 11:42 — Extraction Date and Time

Printed: 4/3/2023 9:12:52AM

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLD0009

Prepared using: EPA 3546 (Microwave)

8081B Pest (PSDDA) in Solid (Version:HCB Only)

WO Comments

23C0752: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Prep Steps

Microwave
1 2 3
04/03/23
CT
Analyst/Date

Pre GPC KD
100°C
(No Exchange)
3 4 5 6
CR 4/4/23
Analyst/Date

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

Post GPC KD
80 - 85°C
Hexane Exchange
(2 X 20 mL)
100°C
1 2 3 4 5 6
SM 4/6/23
Analyst/Date

TurboVap
Pre-Cleanups
1 2 3 4 5
NKS 4/8/23
Analyst/Date

TurboVap
Post-Cleanups
1 2 3 4 5
NKS 4/8/23
Analyst/Date

Vialing
NKS 4/8/23
Analyst/Date

Reagents Used

Station/Reagent	Standard ID
Microwave Analyst: CT Date: 04/03/23	
Hexane	L04957
80:20 Hexane/Acetone	L04221
1:1 Hexane/Acetone	L04246
Neutral Glass Wool	L04497
Anhydrous Sodium Sulfate	L00297
Pre GPC KD Analyst: CR Date: 4/4/23	
Hexane	L001957
Anhydrous Sodium Sulfate	L002971
~~Neutral Glass Wool~~	
GPC Filter Prep Analyst: LJ Date: 4/4/23	
Methylene Chloride	L002621
GPC Filter	L001799
GPC Analyst: AM Date: 4-5-23	
Methylene Chloride	L002621
GPC Calibration File	C1C0059 - GPC3
Post GPC KD Analyst: SM Date: 4/6/23	
Methylene Chloride	L002621
Hexane	L001957
Vialing Analyst: NKS Date: 4/8/23	
Hexane	L001957
Sulfuric Acid	L001033
Ethyl Acetate	N/A
Tetrabutylammonium hydrogensulfate (TBAS)	L002438
Sodium Sulfite	L002437
Silica Gel (SPE) Darts	L003130

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate 2µg/mL	N L000773 Exp Date: 7/21/2023	50µL	CT	
Spike (Freezer) 0.5/1/5µg/mL	3 K011471 Exp Date: 6/10/2023	100µL	CT	

MANUALLY ENTER EXPIRATION DATES!

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

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

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLD0009

Prepared using: EPA 3546 (Microwave)

8081B Pest (PSDDA) in Solid (Version:HCB Only)

WO Comments

23C0752: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Prep Instructions	
SPECIAL INSTRUCTIONS: 1. Weigh into beakers-lightly dry with Sodium Sulfate. 2. Transfer to microwave vessels. 3. Add 1:1 Hex/ACE to the vessels (until solvent is 3" above soil layer after homogenization). 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-re-homogenize while hot then let cool 15 min in cold water. Re-homogenize while cool. 7. Decant 1:1 Hex/ACE into Erlenmeyer flask using a funnel containing neutral glasswool. 8. Rinse with Hexane. 9. Microwave a 2nd time using 8:2 Hex/Ace (until solvent is 3" above soil layer after homogenization). 10. Let cool and decant the solvent then empty the soil into the funnel and rinse with Hexane. 11. KD to 5mL at 100°C. (NO HEXANE EXCHANGE). 12. TurboVap 13. GPC 14. After GPC: KD at 80 - 85°C 15. Exchange to Hexane at 100°C 2 x 20 mL). 16. TurboVap. 17. Cleanups, If Acid cleaning do not add Ethyl Acetate for Sulfur Clean. Do Not Acid Clean if Acid liable compounds are requested. 18. Vial in Hexane. A. Need Total Solids Y/N B. Archive/Freez Y N	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLD0009

Prepared using: EPA 3546 (Microwave)

8081B Pest (PSDDA) in Solid (Version:HCB Only)

WO Comments

23C0752: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

Extraction Parameter: PEST Extraction Batch ~~BLC0852~~ BLC0009

Total Solids Batch: ~~N/A~~ BLC0852 Work Order(s): 23C0752

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
[X] No Anomalies (standard soil/wet sediment/sand/gravel)= 01-07	CR 3/31/23
[X] Standing Water Decanted (Not shared)= 01-07	CR 3/31/23
[ ] Standing Water Homogenized (Shared samples)=	
[ ] Clay/Clumps (Difficult to homogenize)=	
[ ] Rocks (%+size)?	
[ ] Organics (Leaves/sticks/grass)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Received in 32oz jar(s)=Homogenized in Pyrex dish=	
[X] Previously Frozen = 01-07	CR 3/31/23
[ ] Other (Details)=	
Aqueous:	
[ ] No Anomalies	
[ ] Turbid/Color=	
[ ] Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
[ ] Emulsions (%)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Other (Details)=	
[ ] Received in 1.0L Bottle(s)=No Bottle Rinse=	
[ ] Other Notes/Comments= (Note problems, concerns, corrective actions).	
Restarted Pumpt at 5min after GPC Inj.	AIA 4-5-23
[X] Share Samples Y / (N)	CR 3/31/23
[X] Multiple Jars Y (N)	CR 3/31/23
[ ] Sample Pre-Screens indicate analyte activity=	
[ ] Sample weights/volumes reduced based on Pre-Screen=	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLD0052	Cleanup Type:	Sulfuric Acid
Cleanup Method:	EPA 3665 Sulfuric Acid Cleanup - uL	Analysis:	EPA 8081B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1810	23C0752-04	23041245.D	04/08/2023	
LDW23-SS1132	23C0752-03	23041244.D	04/08/2023	
LDW23-SS1125	23C0752-02	23041243.D	04/08/2023	
LDW23-SS1809	23C0752-06	23041246.D	04/08/2023	
Blank	BLD0009-BLK1	23041237.D	04/08/2023	
Matrix Spike	BLD0009-MS1	23041240.D	04/08/2023	
LCS Dup	BLD0009-BSD1	23041239.D	04/08/2023	
LCS	BLD0009-BS1	23041238.D	04/08/2023	
LDW23-SS1026	23C0752-01	23041242.D	04/08/2023	
Matrix Spike Dup	BLD0009-MSD1	23041241.D	04/08/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLD0052

Matrix: Solid **Cleanup using: Organics - EPA 3665 Sulfuric Acid Cleanup - uL** **Printed: 4/8/2023 12:57:57PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23C0752-01	A	LDW23-SS1026	A 03	2.5	2.5	8081B Pest (PSDDA)	4/8/2023	NRB	
23C0752-02	A	LDW23-SS1125	A 03	2.5	2.5	8081B Pest (PSDDA)	4/8/2023	NRB	
23C0752-03	A	LDW23-SS1132	A 03	2.5	2.5	8081B Pest (PSDDA)	4/8/2023	NRB	
23C0752-04	A	LDW23-SS1810	A 03	2.5	2.5	8081B Pest (PSDDA)	4/8/2023	NRB	
23C0752-06	A	LDW23-SS1809	A 03	2.5	2.5	8081B Pest (PSDDA)	4/8/2023	NRB	
BLD0009-BLK1	-	Blank	-	2.5	2.5	-	4/8/2023	NRB	
BLD0009-BS1	-	LCS	-	2.5	2.5	-	4/8/2023	NRB	
BLD0009-BSD1	-	LCS Dup	-	2.5	2.5	-	4/8/2023	NRB	
BLD0009-MS1	-	Matrix Spike	-	2.5	2.5	-	4/8/2023	NRB	
BLD0009-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	4/8/2023	NRB	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLD0053	Cleanup Type:	Sulfur
Cleanup Method:	EPA 3660B Sulfur Cleanup - uL	Analysis:	EPA 8081B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Matrix Spike Dup	BLD0009-MSD1	23041241.D	04/08/2023	
Matrix Spike	BLD0009-MS1	23041240.D	04/08/2023	
LCS Dup	BLD0009-BSD1	23041239.D	04/08/2023	
LCS	BLD0009-BS1	23041238.D	04/08/2023	
LDW23-SS1026	23C0752-01	23041242.D	04/08/2023	
LDW23-SS1132	23C0752-03	23041244.D	04/08/2023	
LDW23-SS1125	23C0752-02	23041243.D	04/08/2023	
LDW23-SS1809	23C0752-06	23041246.D	04/08/2023	
LDW23-SS1810	23C0752-04	23041245.D	04/08/2023	
Blank	BLD0009-BLK1	23041237.D	04/08/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLD0053

Matrix: Solid **Cleanup using: Organics - EPA 3660B Sulfur Cleanup - uL** **Printed: 4/8/2023 12:58:50PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23C0752-01	A	LDW23-SS1026	A 03	2.5	2.5	8081B Pest (PSDDA)	4/8/2023	NRB	
23C0752-02	A	LDW23-SS1125	A 03	2.5	2.5	8081B Pest (PSDDA)	4/8/2023	NRB	
23C0752-03	A	LDW23-SS1132	A 03	2.5	2.5	8081B Pest (PSDDA)	4/8/2023	NRB	
23C0752-04	A	LDW23-SS1810	A 03	2.5	2.5	8081B Pest (PSDDA)	4/8/2023	NRB	
23C0752-06	A	LDW23-SS1809	A 03	2.5	2.5	8081B Pest (PSDDA)	4/8/2023	NRB	
BLD0009-BLK1	-	Blank	-	2.5	2.5	-	4/8/2023	NRB	
BLD0009-BS1	-	LCS	-	2.5	2.5	-	4/8/2023	NRB	
BLD0009-BSD1	-	LCS Dup	-	2.5	2.5	-	4/8/2023	NRB	
BLD0009-MS1	-	Matrix Spike	-	2.5	2.5	-	4/8/2023	NRB	
BLD0009-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	4/8/2023	NRB	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLD0054	Cleanup Type:	Silica Gel
Cleanup Method:	EPA 3630C Silica Gel Cleanup - uL	Analysis:	EPA 8081B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1810	23C0752-04	23041245.D	04/08/2023	
LDW23-SS1809	23C0752-06	23041246.D	04/08/2023	
LDW23-SS1132	23C0752-03	23041244.D	04/08/2023	
Matrix Spike Dup	BLD0009-MSD1	23041241.D	04/08/2023	
Matrix Spike	BLD0009-MS1	23041240.D	04/08/2023	
LCS Dup	BLD0009-BSD1	23041239.D	04/08/2023	
LCS	BLD0009-BS1	23041238.D	04/08/2023	
Blank	BLD0009-BLK1	23041237.D	04/08/2023	
LDW23-SS1125	23C0752-02	23041243.D	04/08/2023	
LDW23-SS1026	23C0752-01	23041242.D	04/08/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLD0054

Matrix: Solid **Cleanup using: Organics - EPA 3630C Silica Gel Cleanup - uL** **Printed: 4/8/2023 12:59:16PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23C0752-01	A	LDW23-SS1026	A 03	2.5	2.5	8081B Pest (PSDDA)	4/8/2023	NRB	
23C0752-02	A	LDW23-SS1125	A 03	2.5	2.5	8081B Pest (PSDDA)	4/8/2023	NRB	
23C0752-03	A	LDW23-SS1132	A 03	2.5	2.5	8081B Pest (PSDDA)	4/8/2023	NRB	
23C0752-04	A	LDW23-SS1810	A 03	2.5	2.5	8081B Pest (PSDDA)	4/8/2023	NRB	
23C0752-06	A	LDW23-SS1809	A 03	2.5	2.5	8081B Pest (PSDDA)	4/8/2023	NRB	
BLD0009-BLK1	-	Blank	-	2.5	2.5	-	4/8/2023	NRB	
BLD0009-BS1	-	LCS	-	2.5	2.5	-	4/8/2023	NRB	
BLD0009-BSD1	-	LCS Dup	-	2.5	2.5	-	4/8/2023	NRB	
BLD0009-MS1	-	Matrix Spike	-	2.5	2.5	-	4/8/2023	NRB	
BLD0009-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	4/8/2023	NRB	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 8081B

Blank

Laboratory:	Analytical Resources, LLC			SDG:	23C0752
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Solid	Laboratory ID:	BLD0009-BLK1	File ID:	23041237.D
Sampled:	N/A	Prepared:	04/03/23 11:42	Analyzed:	04/13/23 01:40
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	12.5 g / 2.5 mL
Batch:	BLD0009	Sequence:	SLD0187	Calibration:	GD00035
Instrument:	ECD6	Column:	STX-CLP	Cleanups:	Silica Gel, Sulfur, Sulfuric Acid

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
118-74-1	Hexachlorobenzene	1	0.50	U	0.15	0.50

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl	8.0000	5.30	66.3	30 - 160	
Decachlorobiphenyl [2C]	8.0000	5.53	69.2	30 - 160	
Tetrachlorometaxylene	8.0000	4.40	55.0	30 - 160	
Tetrachlorometaxylene [2C]	8.0000	4.56	57.0	30 - 160	

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041237.D
Data file 2: /20230412.b/B20230412.b/23041237.D
Method: \20230412.b\PEST.m
Compound Sublist: wpest.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: BLD0009-BLK1
Client ID:
Injection Date: 13-APR-2023 01:40
Report Date: 04/14/2023 08:21
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
----			----			0.00	0.00	---	alpha-BHC
----			----			0.00	0.00	---	beta-BHC
----			----			0.00	0.00	---	delta-BHC
----			----			0.00	0.00	---	gamma-BHC (Lindane)
----			----			0.00	0.00	---	Heptachlor
----			----			0.00	0.00	---	Aldrin
----			----			0.00	0.00	---	Heptachlor epoxide b
----			7.170	-0.002	1378	0.00	0.07	---	Endosulfan I
----			----			0.00	0.00	---	Dieldrin
----			----			0.00	0.00	---	4,4'-DDE
----			----			0.00	0.00	---	Endrin
----			----			0.00	0.00	---	Endosulfan II
----			----			0.00	0.00	---	4,4'-DDD
----			----			0.00	0.00	---	Endosulfan sulfate
----			----			0.00	0.00	---	4,4'-DDT
----			----			0.00	0.00	---	Methoxychlor
----			----			0.00	0.00	---	Endrin ketone
----			----			0.00	0.00	---	Endrin aldehyde
----			----			0.00	0.00	---	trans-Chlordane
----			----			0.00	0.00	---	cis-Chlordane
----			----			0.00	0.00	---	Hexachlorobutadiene
----			----			0.00	0.00	---	Hexachlorobenzene
----			----			0.00	0.00	---	Oxychlordane
----			----			0.00	0.00	---	2,4-DDE
----			----			0.00	0.00	---	trans-Nonachlor
----			----			0.00	0.00	---	2,4-DDD
----			----			0.00	0.00	---	2,4-DDT
----			----			0.00	0.00	---	cis-Nonachlor
----			----			0.00	0.00	---	Mirex
1.791	0.017	4407	1.667	-0.009	75587	0.00	0.00	---	Hexachloroethane
----			----			0.00	0.00	---	Kepone
3.818	-0.001	317415	4.135	-0.001	466254	22.01	22.81	3.6	Tetrachloro-m-xylene
9.365	-0.001	271369	10.305	-0.001	310159	26.50	27.66	4.3	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	1030604	19.2
Hexabromobiphenyl	663237	868057	30.9

Column 2

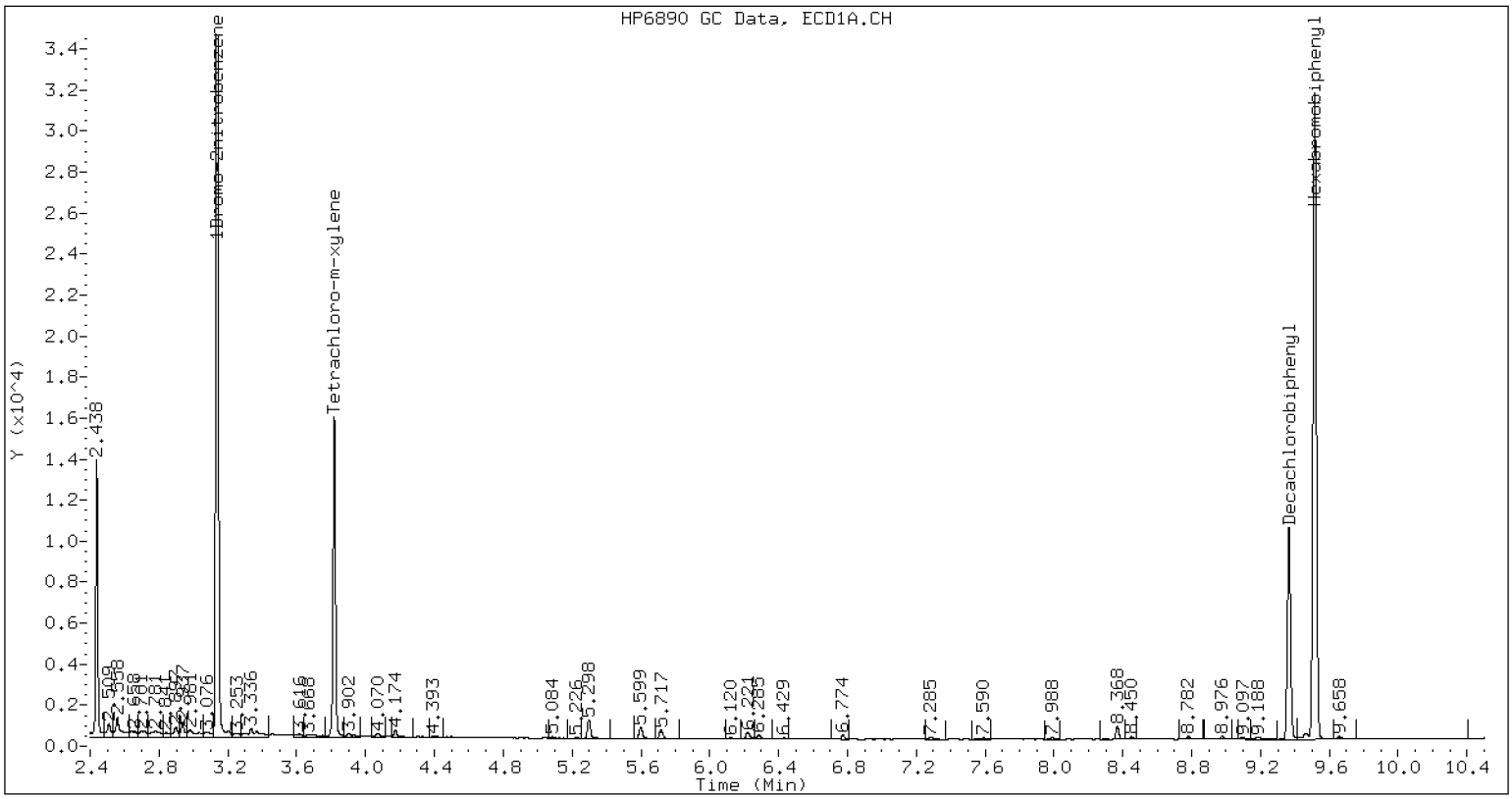
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1486701	0.4
Hexabromobiphenyl	870561	928862	6.7

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

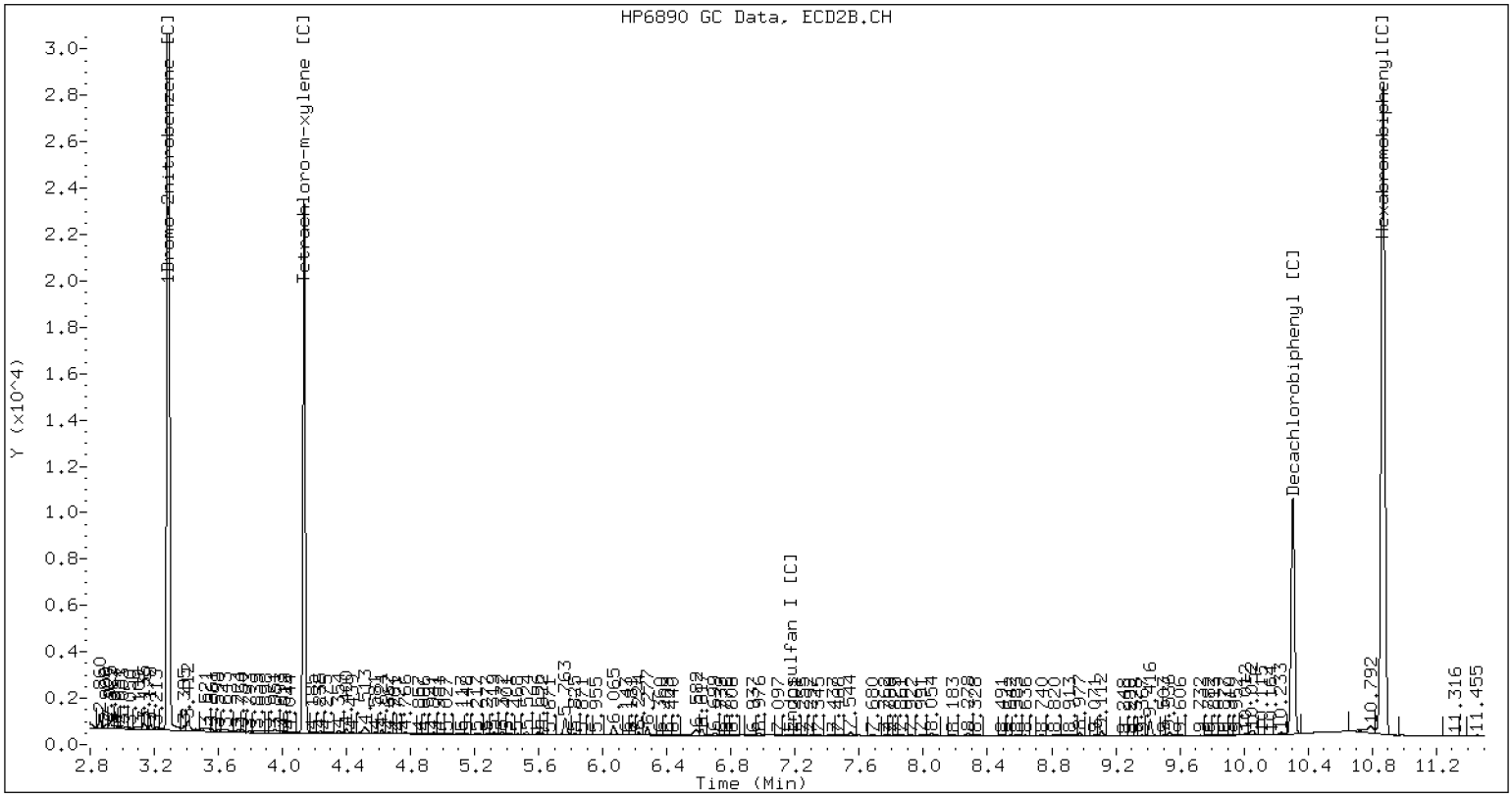
		STX-CLP Col				CLP2 Col			
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
Toxaphene	1	---			0.000	1	---			0.000
Toxaphene	2	---			0.000	2	---			0.000
Toxaphene	3	---			0.000	3	---			0.000
Toxaphene	4	---			0.000	4	---			0.000
Toxaphene	5	---			0.000	5	---			0.000
	STX-CLPAve: <3 Quant Peaks					CLP2Ave: <3 Quant Peaks				

		STX-CLP Col				CLP2 Col			
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
Chlordane (NOS)	1	---			0.000	1	---			0.000
Chlordane (NOS)	2	---			0.000	2	---			0.000
Chlordane (NOS)	3	---			0.000	3	---			0.000
	STX-CLPAve: <3 Quant Peaks					CLP2Ave: <3 Quant Peaks				

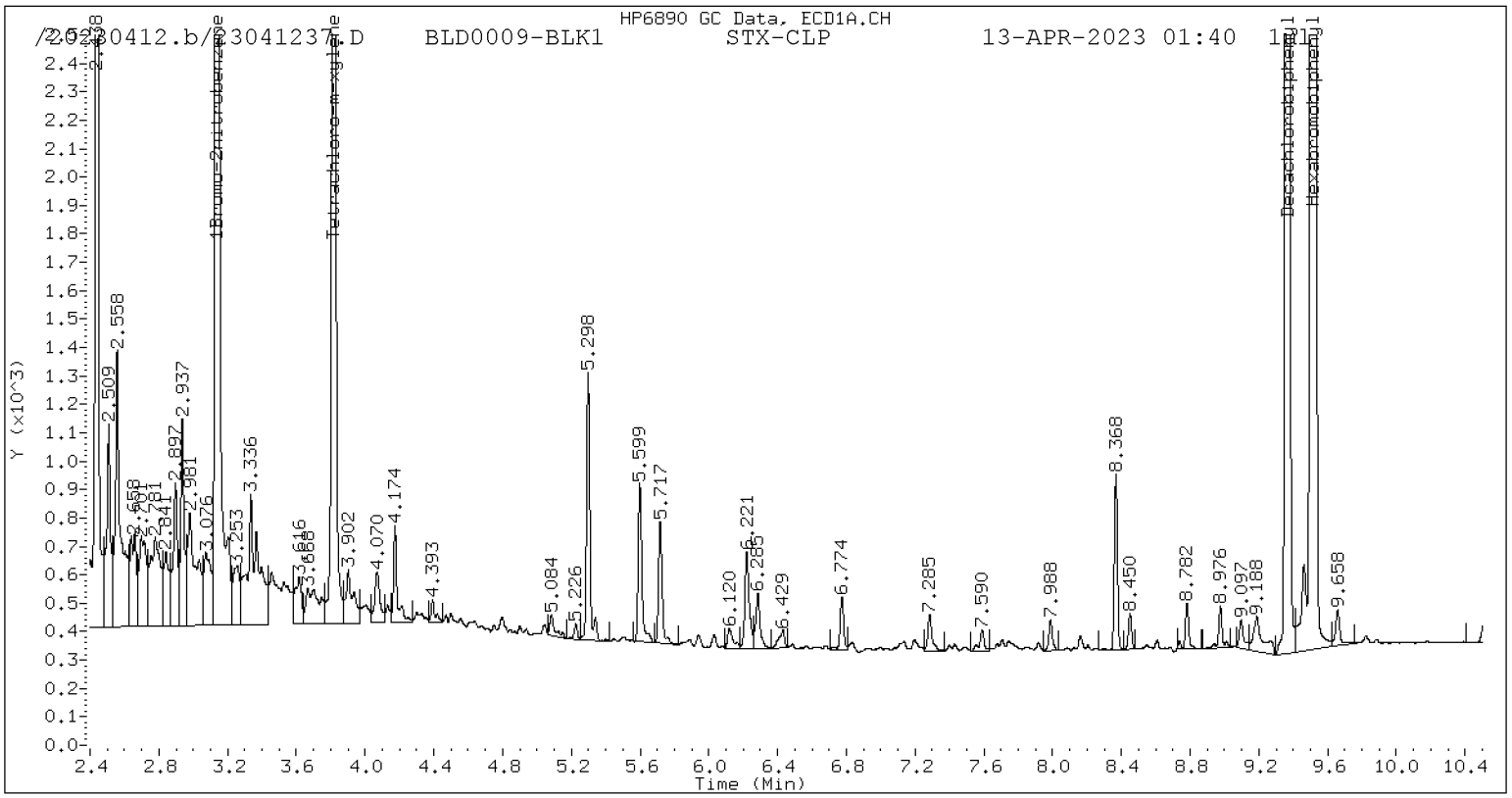
/20230412.b/23041237.D BLD0009-BLK1 STX-CLP 13-APR-2023 01:40 1ul



/20230412.b/B20230412.b/23041237.D BLD0009-BLK1 CLP2 13-APR-2023 01:40 1ul

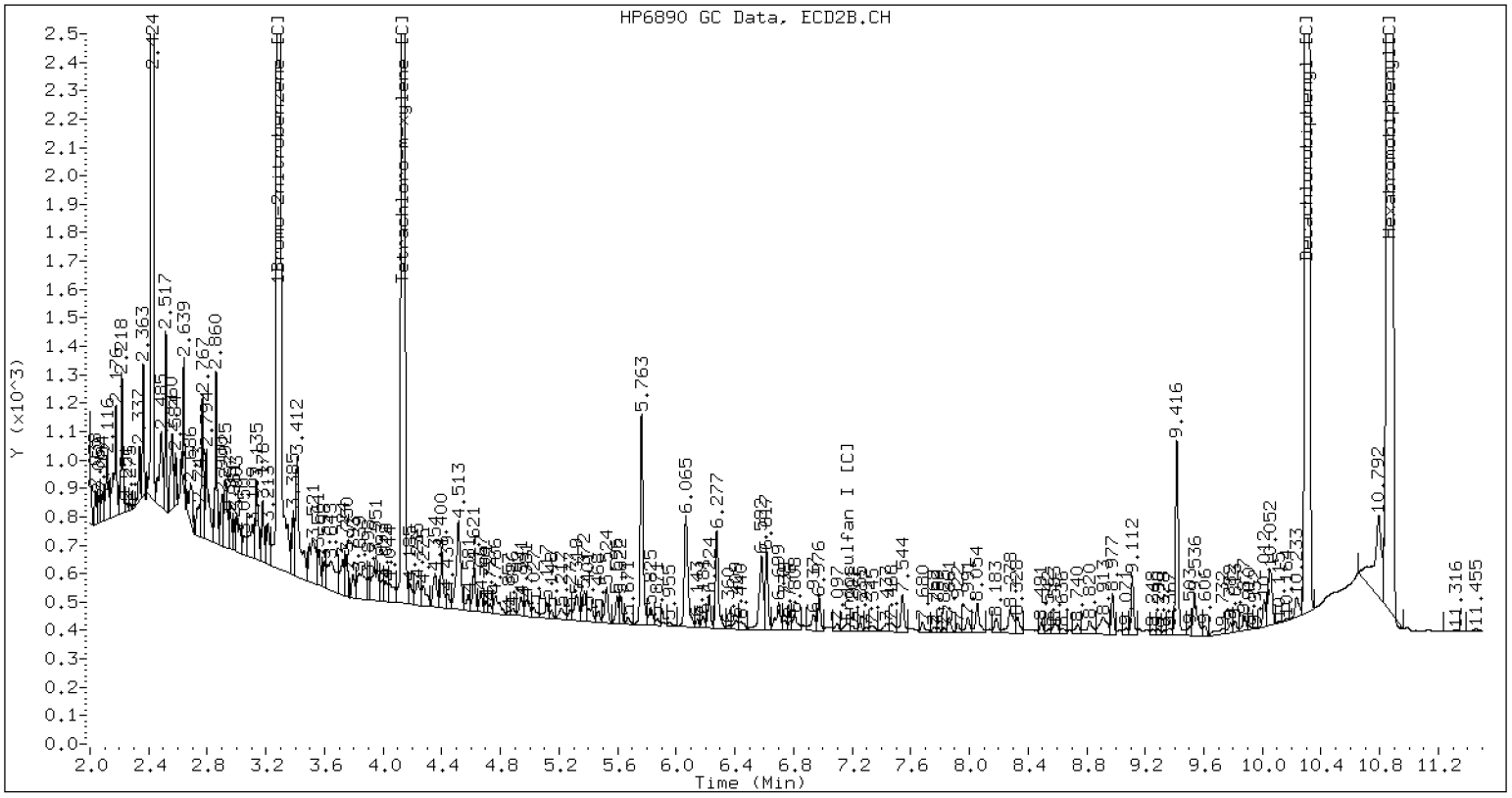


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041237.D BLD0009-BLK1 CLP2



CLP-2 Manual Integration: NO

LCS / LCS DUPLICATE RECOVERY

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	04/13/23 01:59
Batch:	BLD0009	Laboratory ID:	BLD0009-BS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	12.5 g / 2.5 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Hexachlorobenzene	4.00	3.13		78.2	26 - 128

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS	
						RPD	REC.
Hexachlorobenzene	4.00	3.11		77.6	0.683	30	26 - 128

* Indicates values outside of QC limits

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041238.D
Data file 2: /20230412.b/B20230412.b/23041238.D
Method: \20230412.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: BLD0009-BS1
Client ID:
Injection Date: 13-APR-2023 01:59
Report Date: 04/14/2023 08:21
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.332	-0.001	311150	4.761	-0.001	404563	14.02	12.74	9.5	alpha-BHC
4.716	-0.001	121393	5.228	-0.002	160363	13.69	12.72	7.4	beta-BHC
4.900	-0.001	294080	5.576	-0.001	339910	14.63	12.03	19.5	delta-BHC
4.636	-0.001	281127	5.151	-0.001	371744	14.41	13.32	7.9	gamma-BHC (Lindane)
5.123	-0.001	256101	5.670	-0.001	314177	14.18	12.83	10.0	Heptachlor
5.447	-0.001	238255	6.069	-0.002	284995	12.97	11.22	14.5	Aldrin
6.124	-0.001	217654	6.727	-0.002	285984	13.13	12.79	2.7	Heptachlor epoxide b
6.566	-0.001	320917	7.171	-0.001	410105	21.72	21.52	0.9	Endosulfan I
----			7.471	0.005	2633	0.00	0.13	---	Dieldrin
6.488	-0.001	424743	7.256	-0.001	558068	28.81	28.06	2.6	4,4'-DDE
----			----			0.00	0.00	---	Endrin
7.313	-0.001	80751	7.999	-0.002	82697	5.87	4.73	21.4	Endosulfan II
7.135	-0.001	373611	7.861	-0.001	489914	28.32	28.97	2.3	4,4'-DDD
8.176	-0.001	236983	8.596	-0.002	296891	18.26	18.45	1.0	Endosulfan sulfate
7.430	-0.001	399448	8.179	-0.002	496802	28.11	29.12	3.5	4,4'-DDT
7.918	-0.002	8076	8.817	-0.005	13652	1.33	1.87	33.8	Methoxychlor
8.450	-0.002	334295	9.117	-0.002	327300	22.58	18.63	19.2	Endrin ketone
7.742	-0.001	29994	8.330	-0.001	34282	2.86	2.71	5.1	Endrin aldehyde
6.265	-0.001	251141	6.938	-0.001	297935	15.48	13.89	10.8	trans-Chlordane
6.412	-0.001	234253	7.098	-0.002	291211	14.39	13.79	4.3	cis-Chlordane
2.308	-0.001	284057	2.452	-0.001	199954	12.41	6.94	56.6*	Hexachlorobutadiene
4.173	-0.002	307100	4.622	-0.000	326381	15.63	11.77	28.2	Hexachlorobenzene
3.818	-0.001	362867	4.135	-0.001	548407	25.55	26.65	4.2	Tetrachloro-m-xylene
9.365	-0.001	302448	10.305	-0.001	349748	30.15	31.53	4.5	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

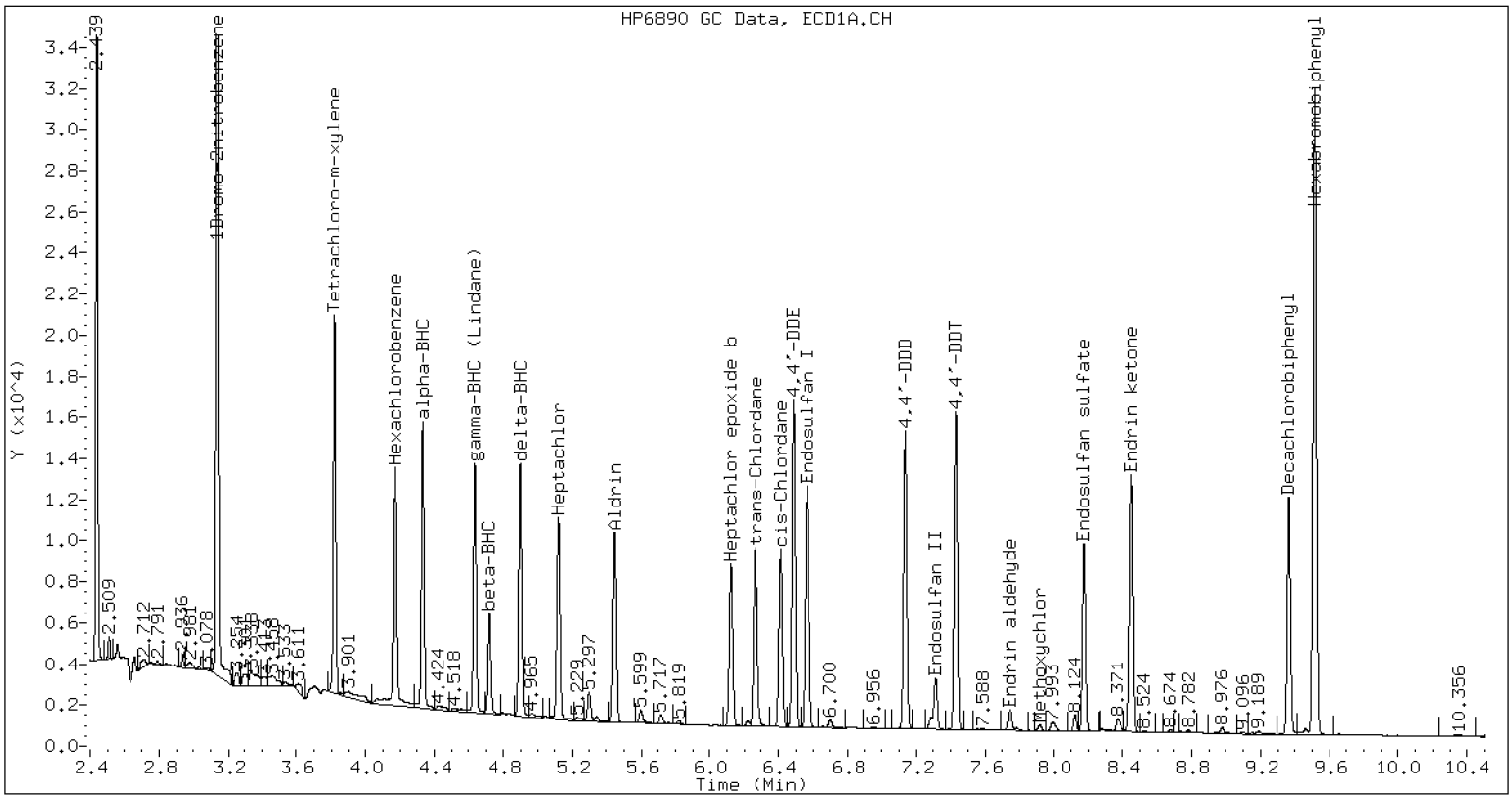
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	1015173	17.5
Hexabromobiphenyl	663237	850547	28.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1496601	1.1
Hexabromobiphenyl	870561	919032	5.6

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

/20230412.b/23041238.D BLD0009-BS1 STX-CLP 13-APR-2023 01:59 1ul



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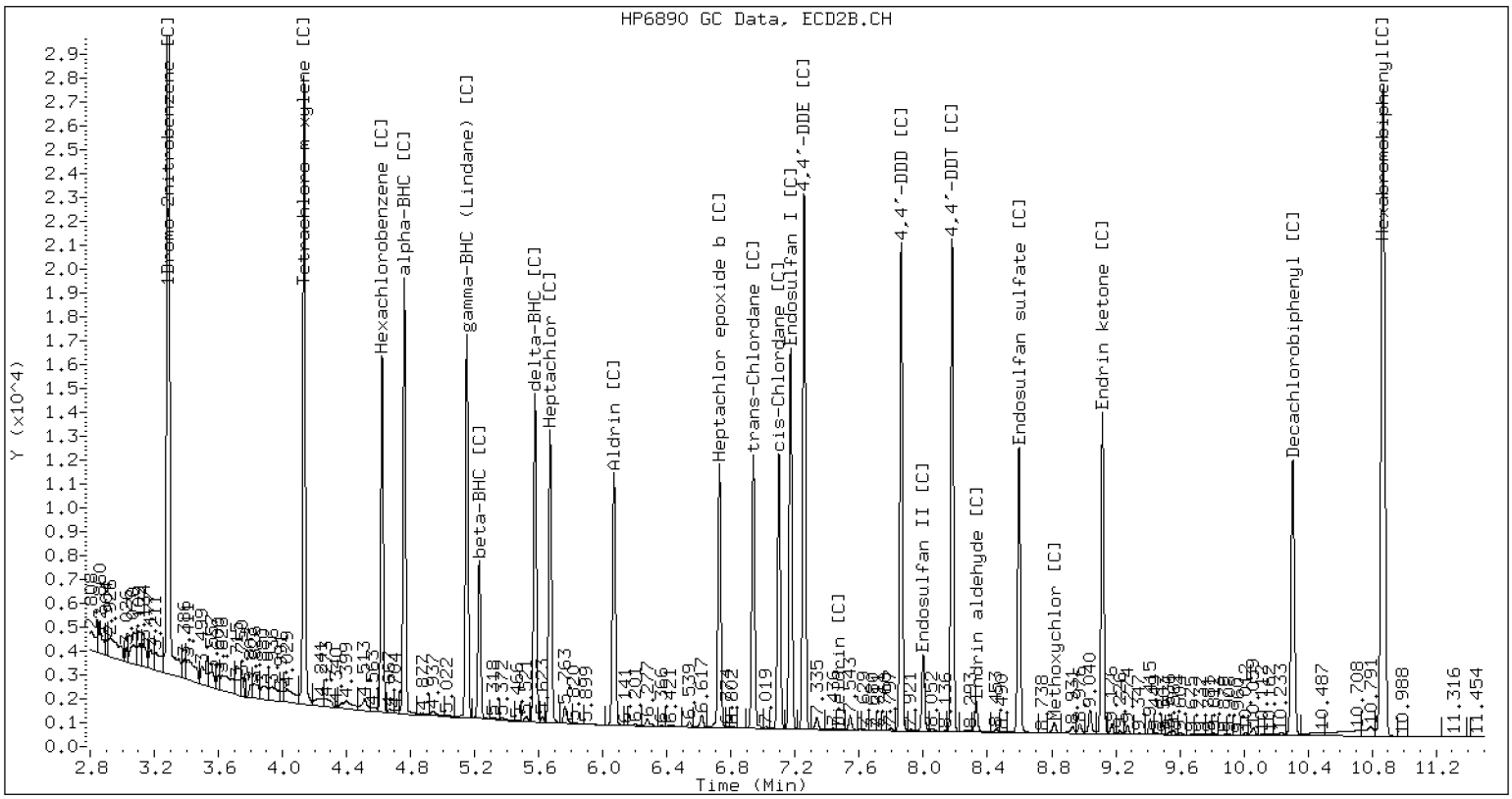
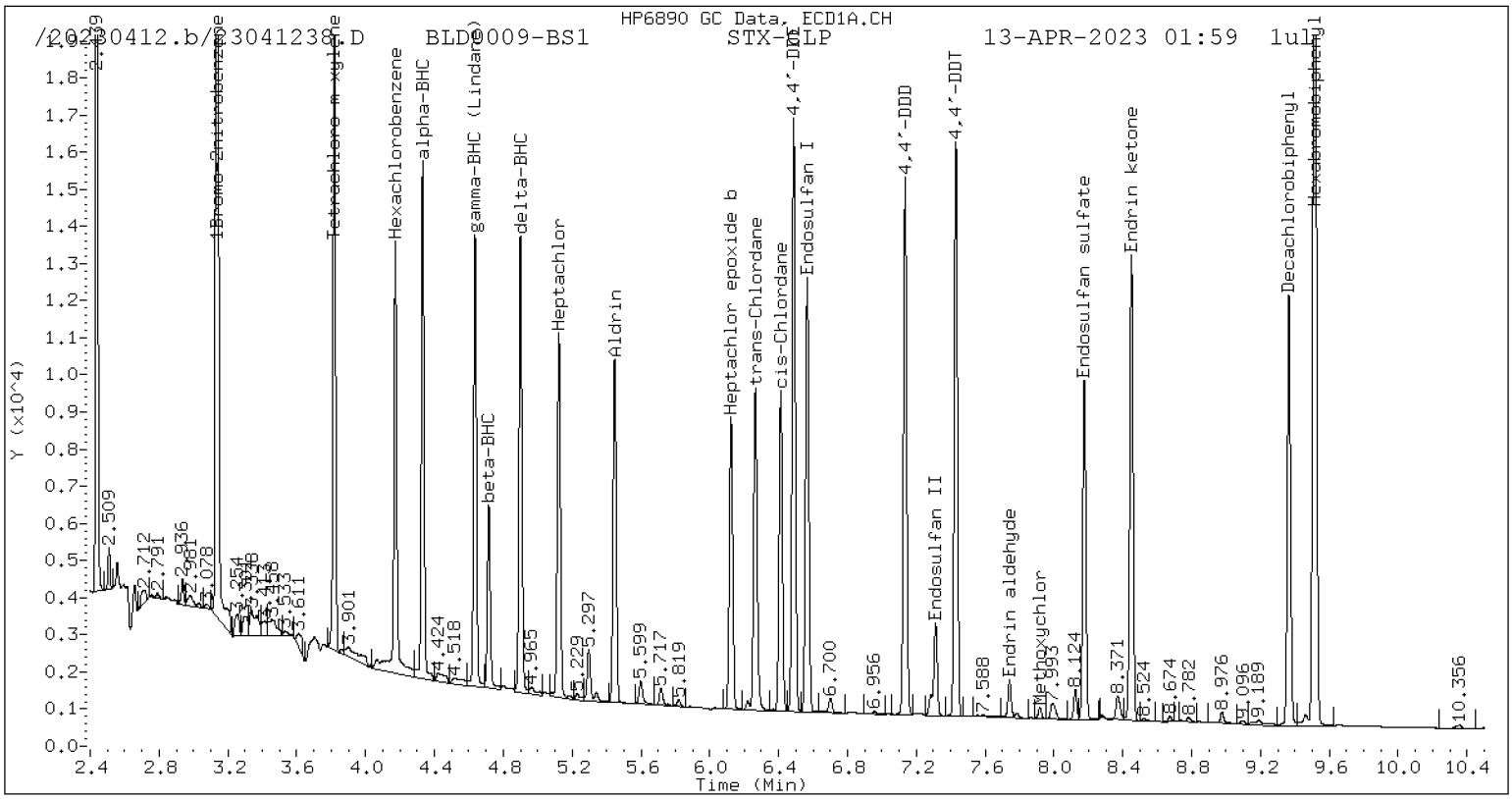


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

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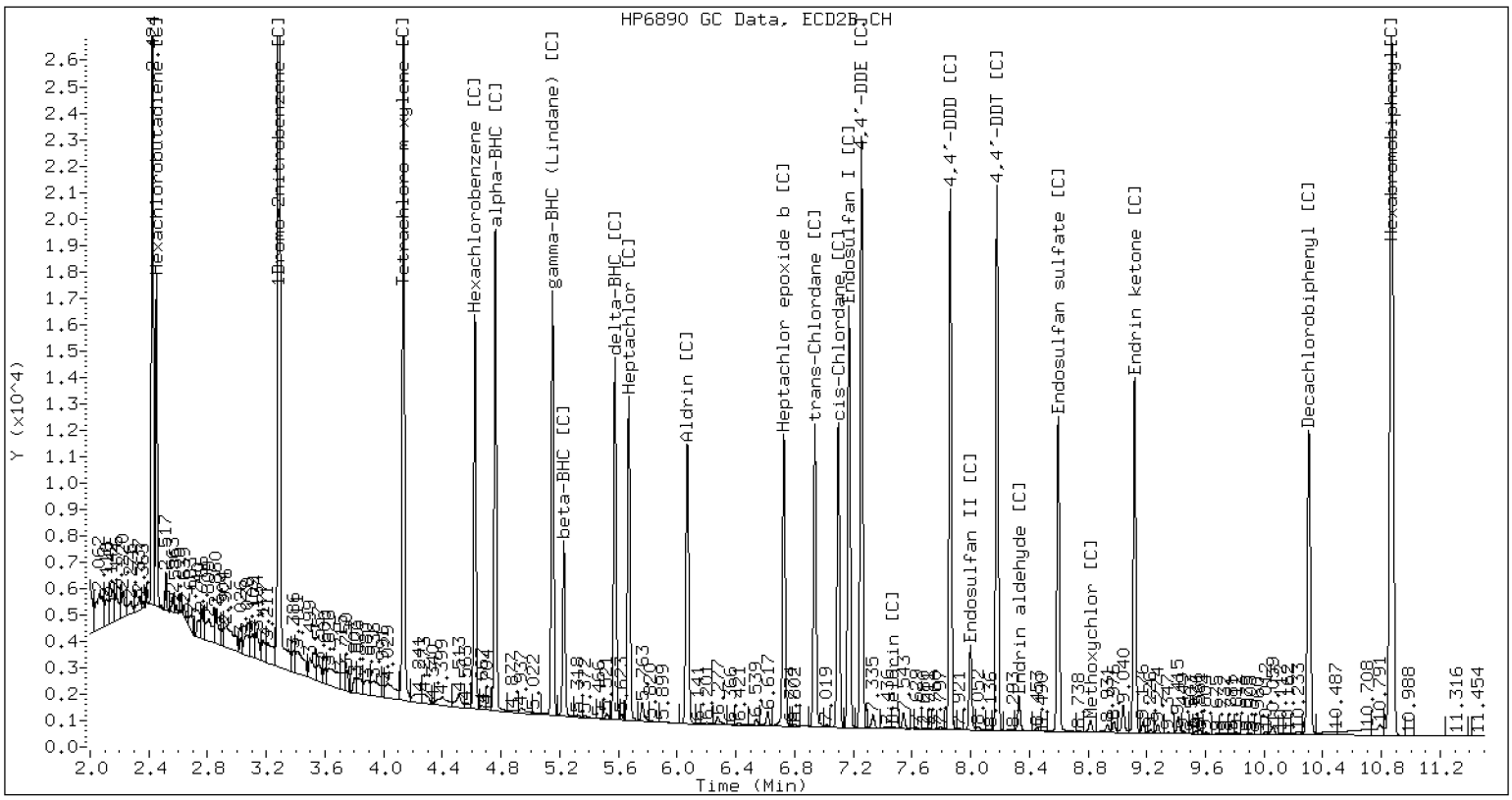


CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041239.D
Data file 2: /20230412.b/B20230412.b/23041239.D
Method: \20230412.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: BLD0009-BSD1
Client ID:
Injection Date: 13-APR-2023 02:17
Report Date: 04/14/2023 08:21
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.332	-0.001	312046	4.761	-0.001	398120	13.49	12.38	8.6	alpha-BHC
4.716	-0.001	142968	5.229	-0.001	158913	15.48	12.44	21.8	beta-BHC
4.900	-0.001	289378	5.575	-0.002	316313	13.82	11.05	22.3	delta-BHC
4.635	-0.002	280974	5.151	-0.001	360513	13.83	12.75	8.1	gamma-BHC (Lindane)
5.123	-0.001	243984	5.670	-0.001	303920	12.97	12.26	5.7	Heptachlor
5.447	-0.001	231640	6.070	-0.001	278682	12.11	10.83	11.2	Aldrin
6.123	-0.002	226150	6.728	-0.001	288031	13.10	12.71	3.0	Heptachlor epoxide b
6.566	-0.001	317736	7.171	-0.001	401048	20.64	20.77	0.6	Endosulfan I
6.832	0.004	6607	7.436	-0.030	9731	0.41	0.46	12.5	Dieldrin
6.488	-0.001	410935	7.256	-0.001	538342	26.75	26.73	0.1	4,4'-DDE
----			7.796	0.006	6745	0.00	0.36	---	Endrin
7.313	-0.001	116582	7.999	-0.002	118588	8.32	6.79	20.3	Endosulfan II
7.135	-0.001	373386	7.861	-0.001	480179	27.81	28.41	2.1	4,4'-DDD
8.176	-0.001	260573	8.597	-0.001	322318	19.73	20.04	1.5	Endosulfan sulfate
7.430	-0.001	390790	8.179	-0.002	476915	27.03	27.96	3.4	4,4'-DDT
7.919	-0.001	15051	8.818	-0.004	23147	2.43	3.17	26.3	Methoxychlor
8.451	-0.001	360225	9.118	-0.001	380865	23.91	21.68	9.8	Endrin ketone
7.742	-0.001	49775	8.330	-0.001	47461	4.66	3.76	21.4	Endrin aldehyde
6.265	-0.001	260333	6.939	-0.000	291352	15.41	13.41	13.9	trans-Chlordane
6.412	-0.001	232651	7.099	-0.002	282708	13.72	13.21	3.7	cis-Chlordane
2.308	-0.001	275002	2.452	-0.001	158240	11.53	5.42	72.1*	Hexachlorobutadiene
4.173	-0.002	317750	4.621	-0.001	317795	15.53	11.31	31.4	Hexachlorobenzene
3.818	-0.001	346405	4.135	-0.001	542730	23.41	26.03	10.6	Tetrachloro-m-xylene
9.365	-0.001	307292	10.305	-0.001	341926	30.10	30.83	2.4	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

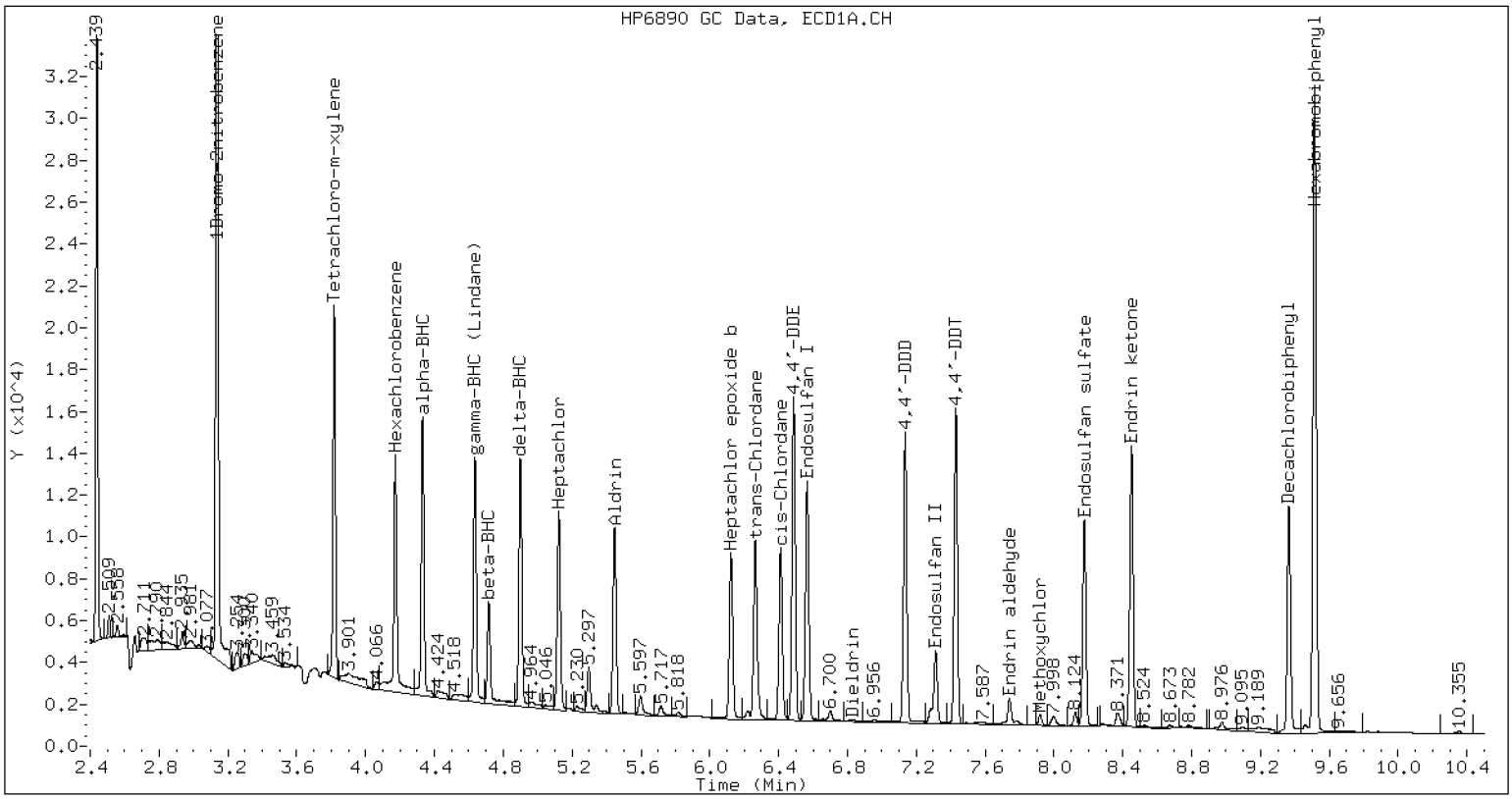
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	1057574	22.4
Hexabromobiphenyl	663237	865479	30.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1516038	2.4
Hexabromobiphenyl	870561	918740	5.5

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

/20230412.b/23041239.D BLD0009-BSD1 STX-CLP 13-APR-2023 02:17 1ul



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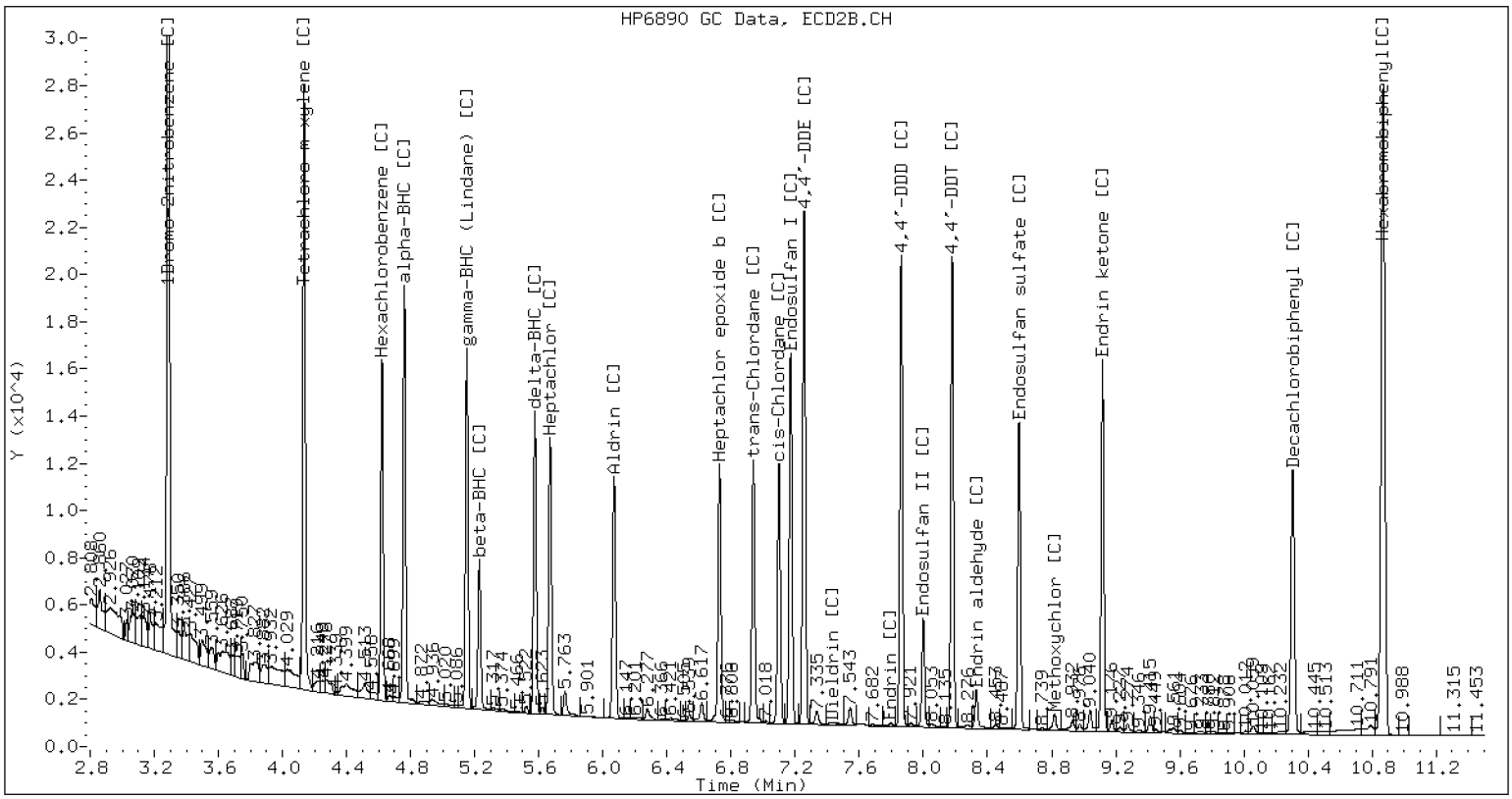
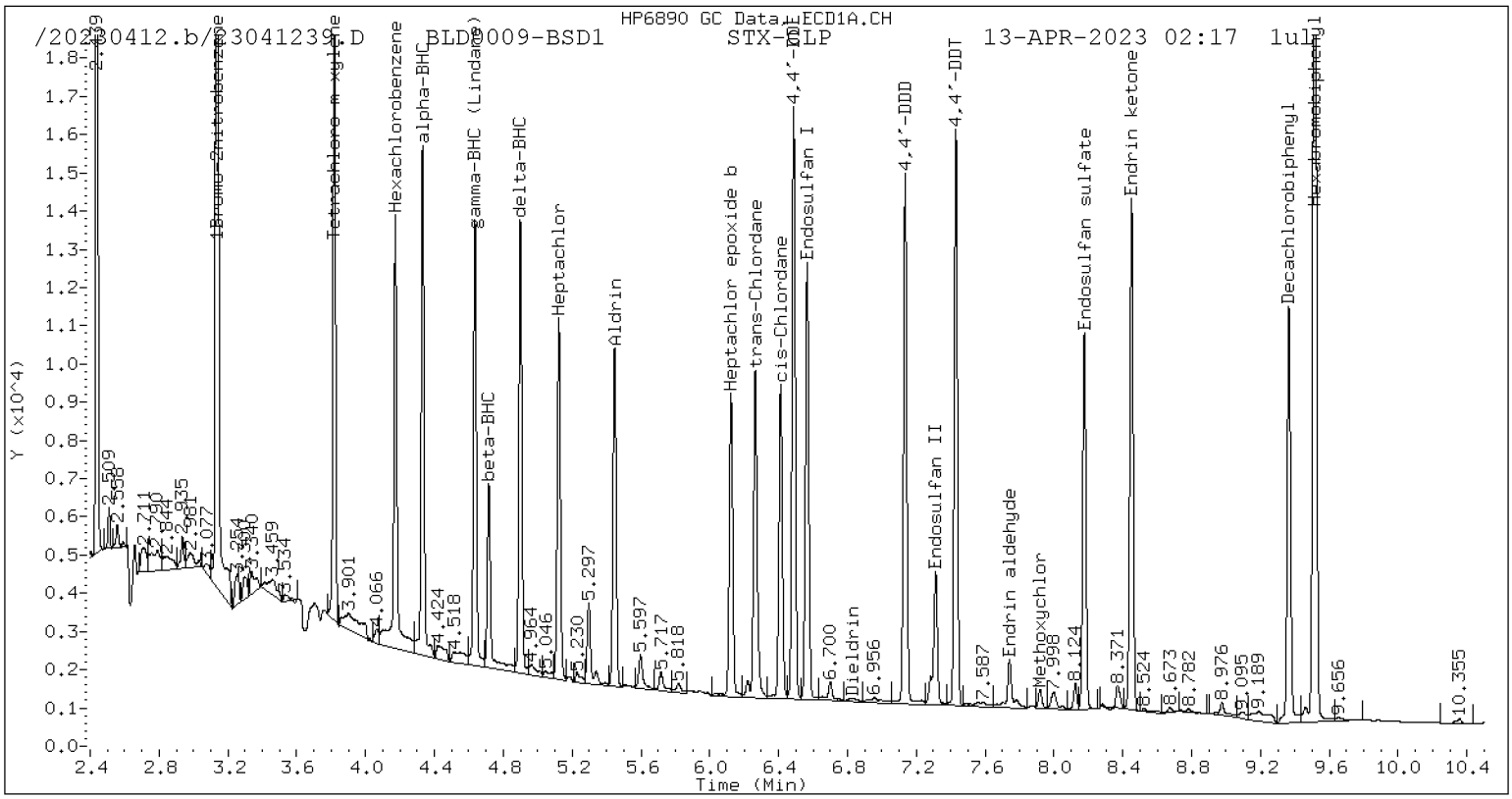
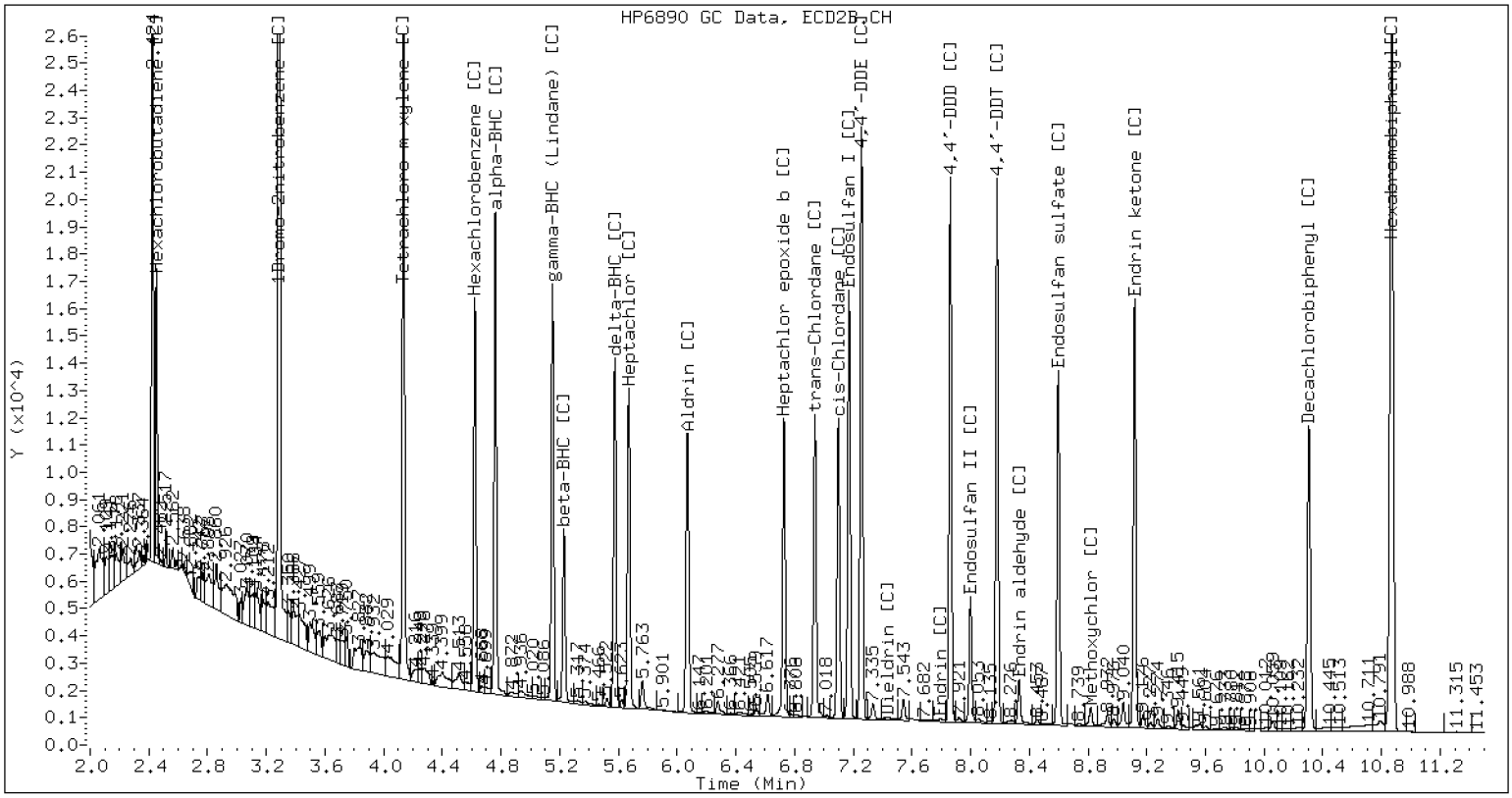


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041239.D BLD0009-BSD1 CLP2



CLP-2 Manual Integration: NO

MS / MS DUPLICATE RECOVERY
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	04/13/23 02:35
Batch:	BLD0009	Laboratory ID:	BLD0009-MS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	23.72 g / 2.5 mL	Source Sample:	LDW23-SS1810

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Hexachlorobenzene	4.00	ND	U	2.75		68.8	26 - 128

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

MS / MS DUPLICATE RECOVERY
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	04/13/23 02:53
Batch:	BLD0009	Laboratory ID:	BLD0009-MSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	23.72 g / 2.5 mL	Source Sample:	LDW23-SS1810

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Hexachlorobenzene	4.00	2.75		68.8	0.0334	30	26 - 128

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041240.D
Data file 2: /20230412.b/B20230412.b/23041240.D
Method: \20230412.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: BLD0009-MS1
Client ID:
Injection Date: 13-APR-2023 02:35
Report Date: 04/14/2023 08:21
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.332	-0.001	303167	4.760	-0.002	314885	13.36	10.41	24.8	alpha-BHC
4.716	-0.001	101849	5.228	-0.002	127239	11.24	10.59	5.9	beta-BHC
4.899	-0.002	312007	5.575	-0.002	284252	15.19	10.56	36.0	delta-BHC
4.635	-0.002	274906	5.150	-0.002	280736	13.79	10.56	26.5	gamma-BHC (Lindane)
5.122	-0.002	221676	5.670	-0.001	290853	12.01	12.47	3.8	Heptachlor
5.448	0.000	256505	6.069	-0.002	257111	13.67	10.62	25.1	Aldrin
6.122	-0.003	200704	6.725	-0.004	204129	11.85	9.58	21.1	Heptachlor epoxide b N
6.566	-0.001	252579	7.171	-0.001	299072	16.72	16.48	1.5	Endosulfan I
6.811	-0.017	110342	7.449	-0.017	62951	6.90	3.16	74.3*	Dieldrin
6.487	-0.002	491632	7.257	-0.000	499496	32.62	26.37	21.2	4,4'-DDE N
7.103	0.025	144880	7.820	0.030	184864	11.67	12.02	3.0	Endrin M
7.312	-0.002	86750	7.998	-0.003	137600	7.46	9.47	23.7	Endosulfan II N
7.135	-0.001	406922	7.861	-0.001	422030	36.52	30.02	19.5	4,4'-DDD M
8.177	-0.000	182315	8.597	-0.001	205159	16.63	15.34	8.1	Endosulfan sulfate
7.430	-0.001	392215	8.182	0.001	722093	32.68	50.92	43.6*	4,4'-DDT M
7.947	0.027	37938	----			7.38	0.00	---	Methoxychlor
8.451	-0.001	292649	9.118	-0.001	341538	23.40	23.38	0.1	Endrin ketone N
7.771	0.028	64004	8.326	-0.005	59469	7.21	5.66	24.1	Endrin aldehyde
6.265	-0.001	205733	6.939	-0.000	243252	12.41	11.91	4.1	trans-Chlordane
6.413	-0.000	243376	7.099	-0.001	224620	14.63	11.17	26.8	cis-Chlordane
2.307	-0.002	292382	2.451	-0.002	211775	12.50	7.71	47.3*	Hexachlorobutadiene
4.173	-0.002	276426	4.621	-0.001	323246	13.77	12.24	11.8	Hexachlorobenzene
3.818	-0.001	399870	4.135	-0.001	516133	27.54	26.33	4.5	Tetrachloro-m-xylene
9.367	0.001	262647	10.306	0.000	296772	31.00	32.18	3.7	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

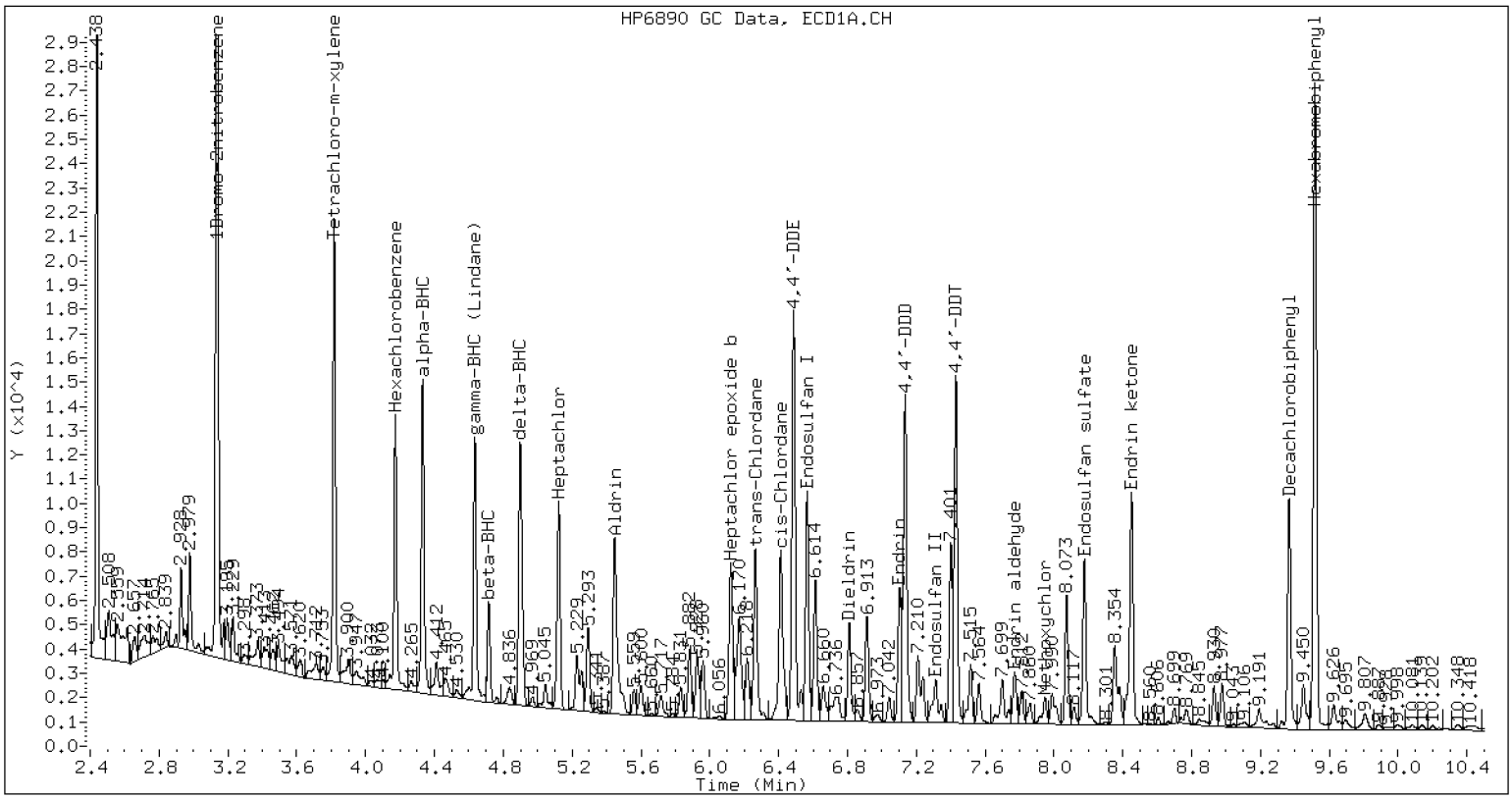
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	1037535	20.0
Hexabromobiphenyl	663237	718336	8.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1425441	-3.7
Hexabromobiphenyl	870561	763973	-12.2

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

/20230412.b/23041240.D BLD0009-MS1 STX-CLP 13-APR-2023 02:35 1ul



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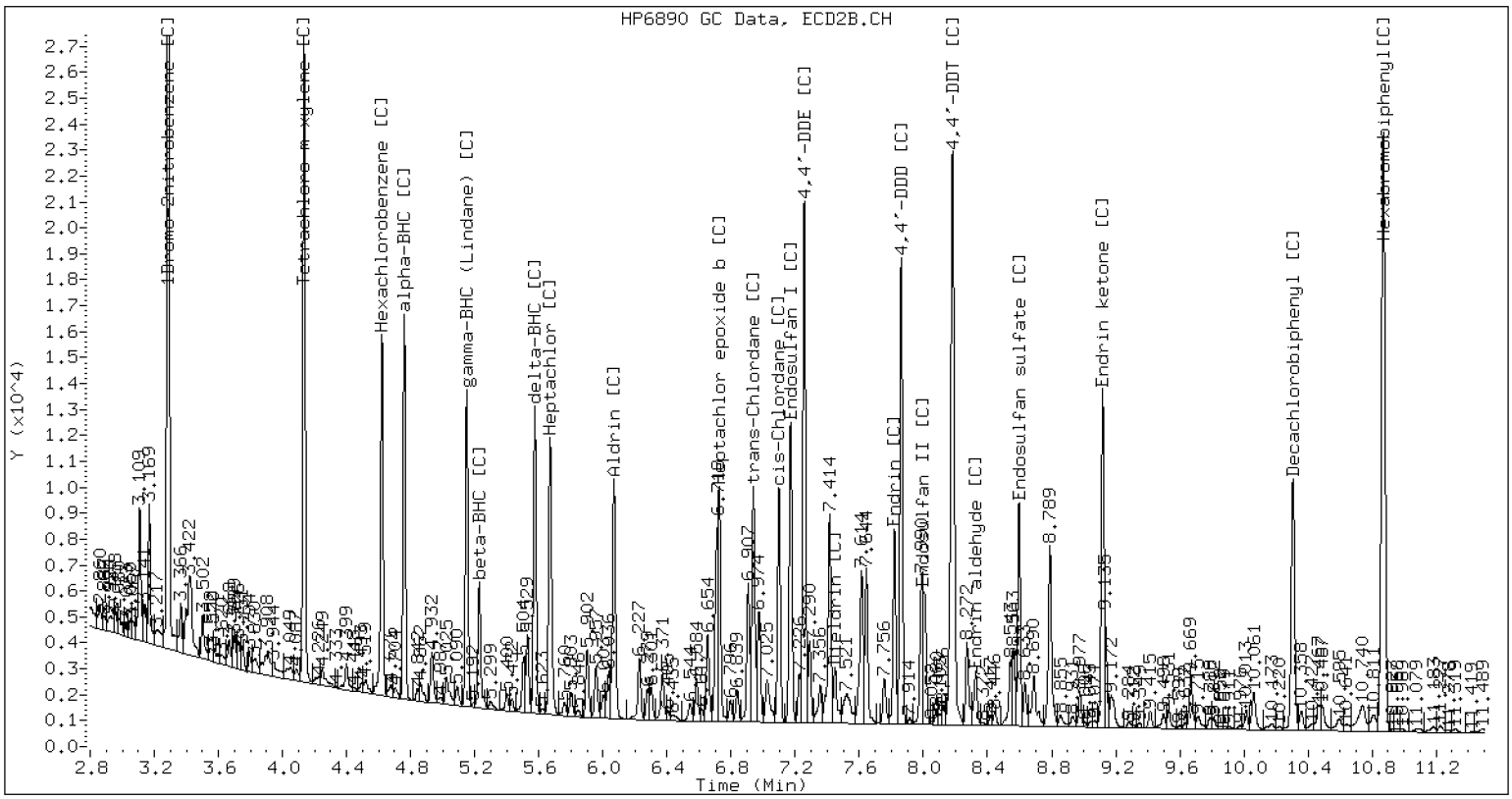
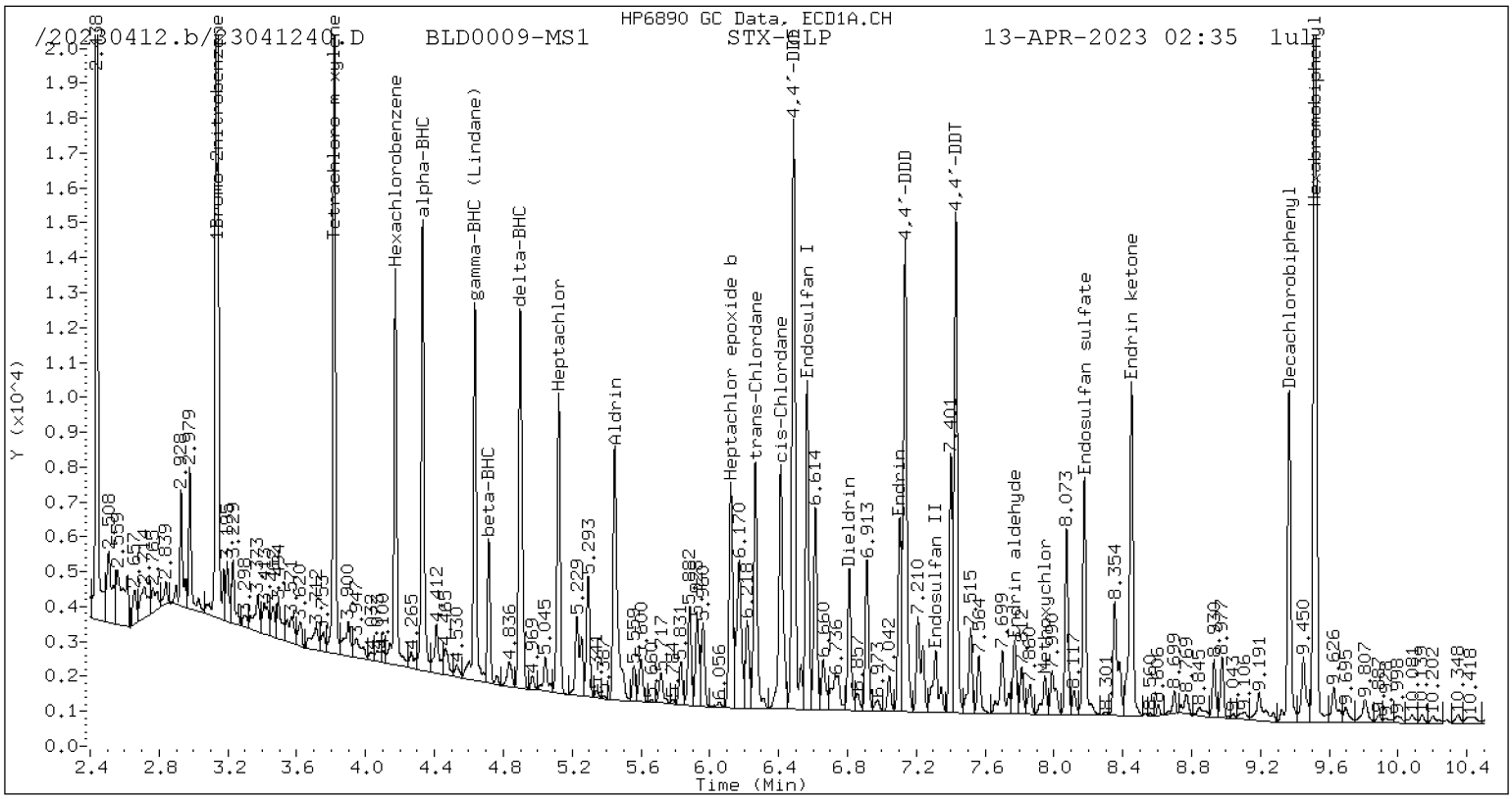
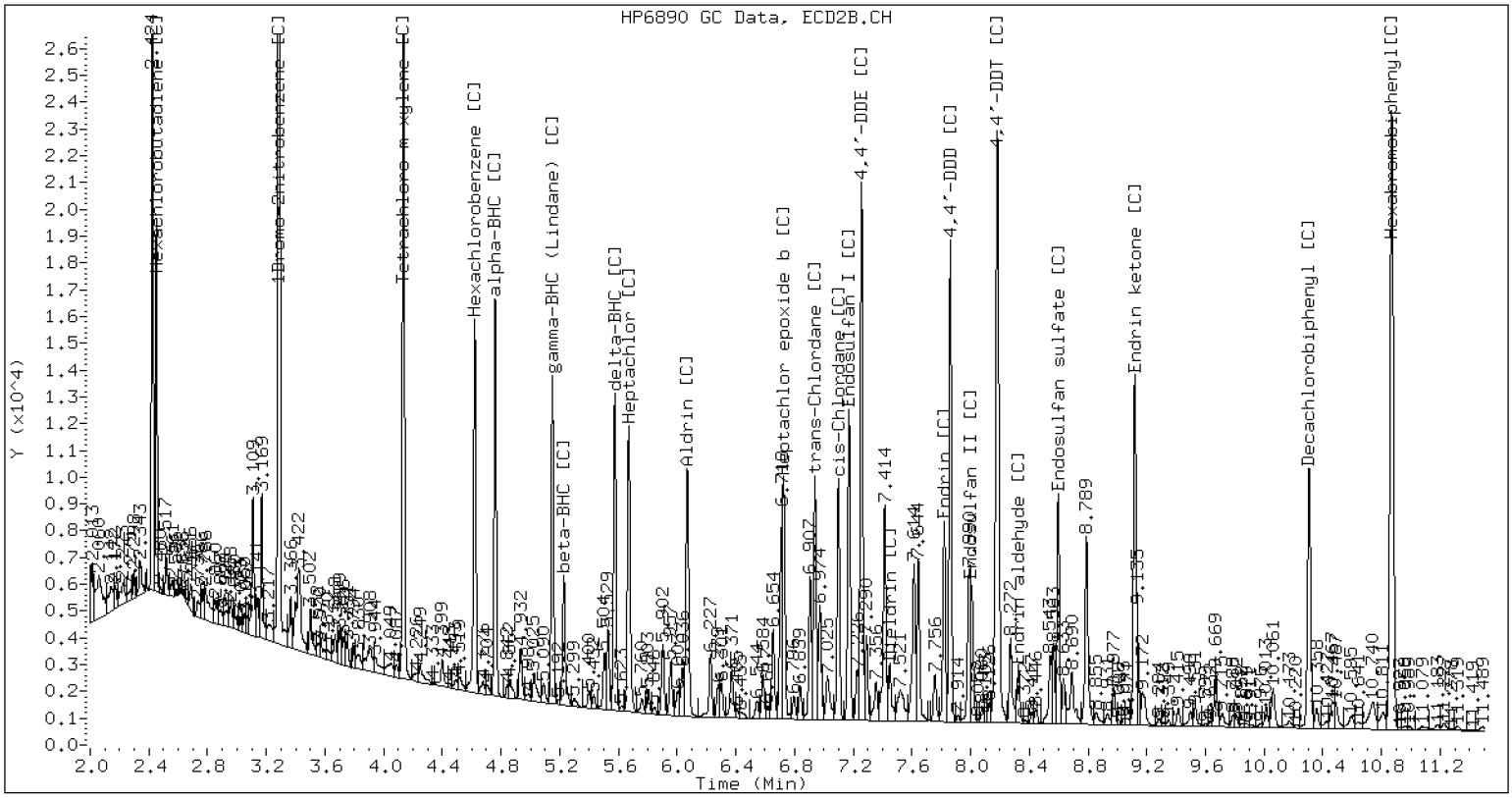


Pesticide Dual Column Chromatograms



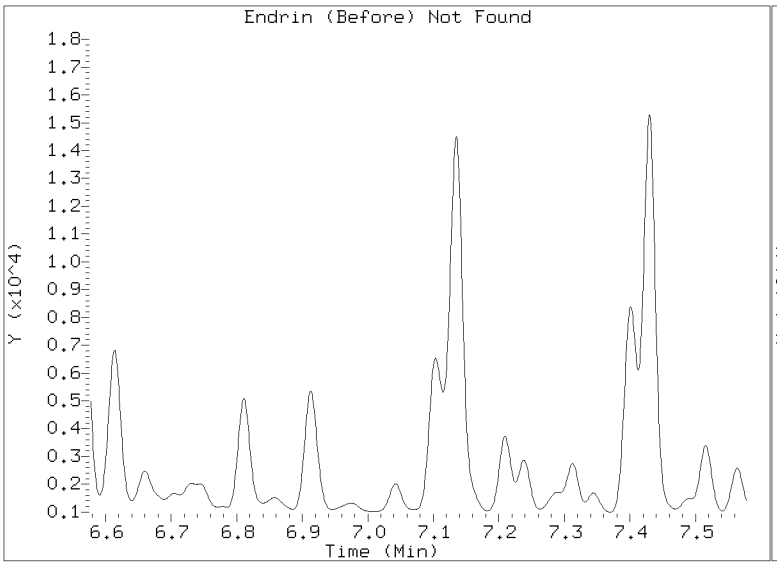
STX-CLP Manual Integration: YES

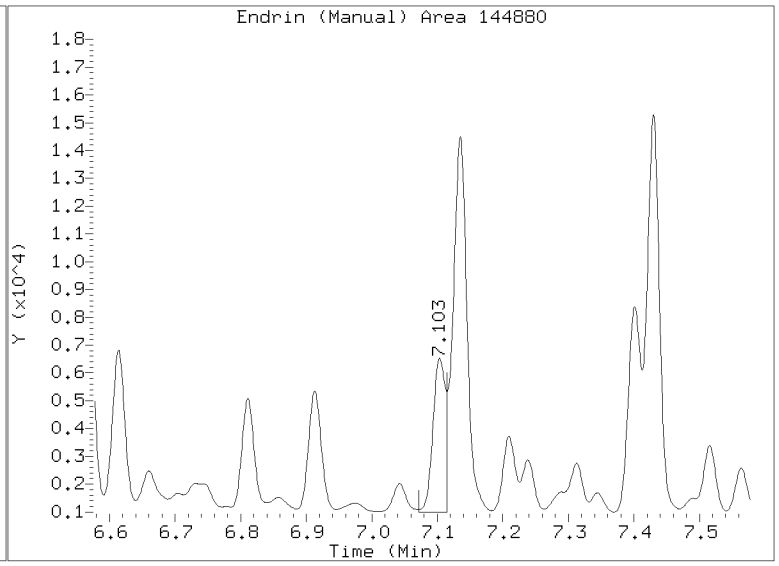


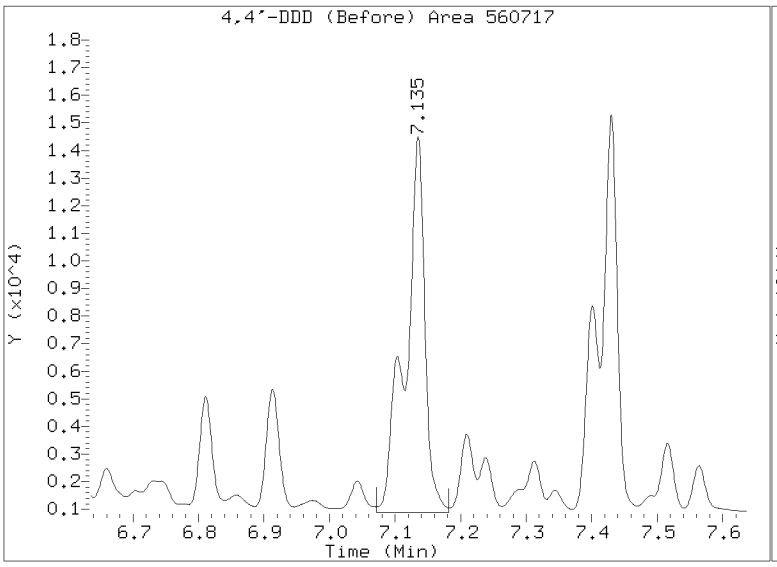
CLP-2 Manual Integration: YES

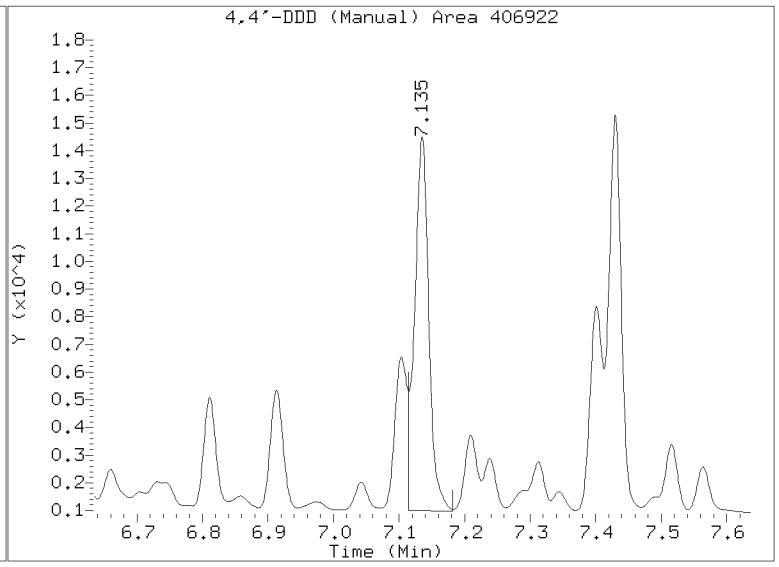
Manual Peak Adjustment Report, STX-CLP

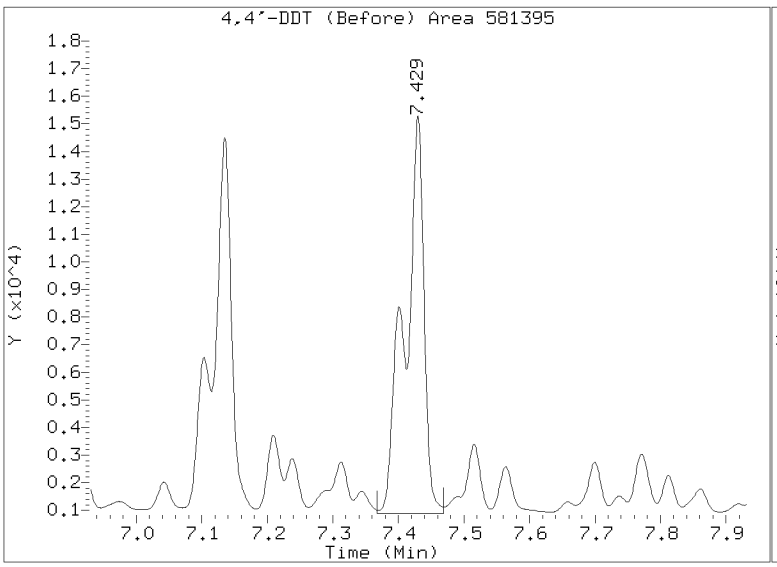
Datafile: /20230412.b/23041240.D
Injection Date: 13-APR-2023 02:35
Lab ID:BLD0009-MS1 Client ID:
Report Date: 04/14/2023 08:21

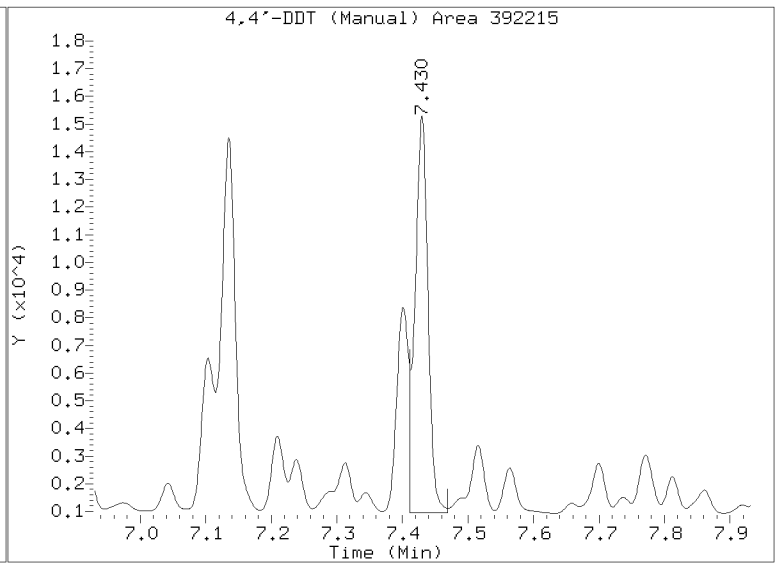












Manual Peak Adjustment Report, CLP-2

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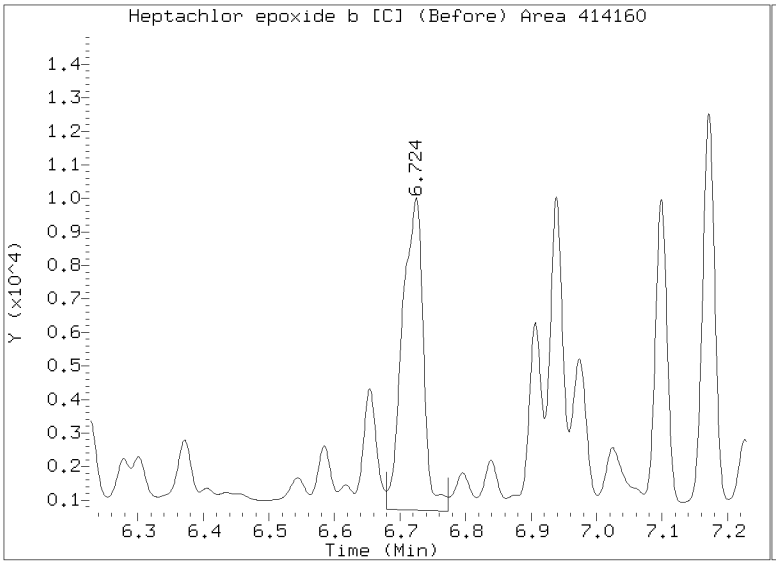
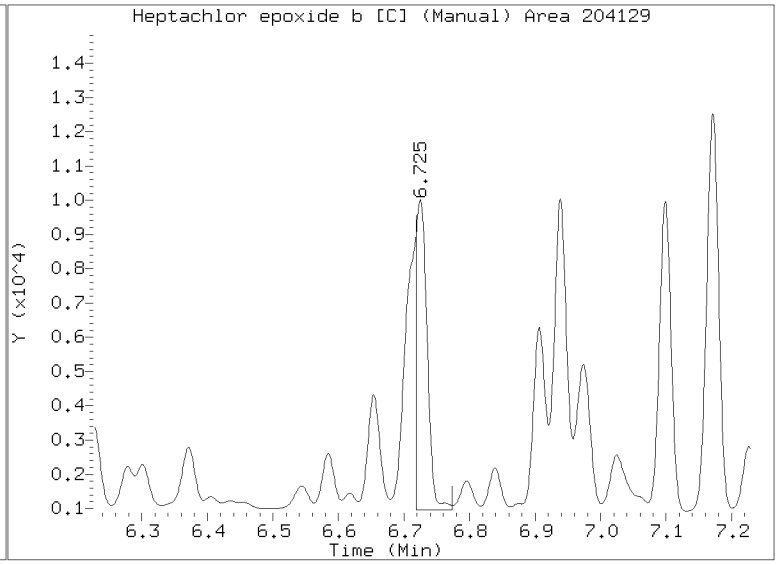
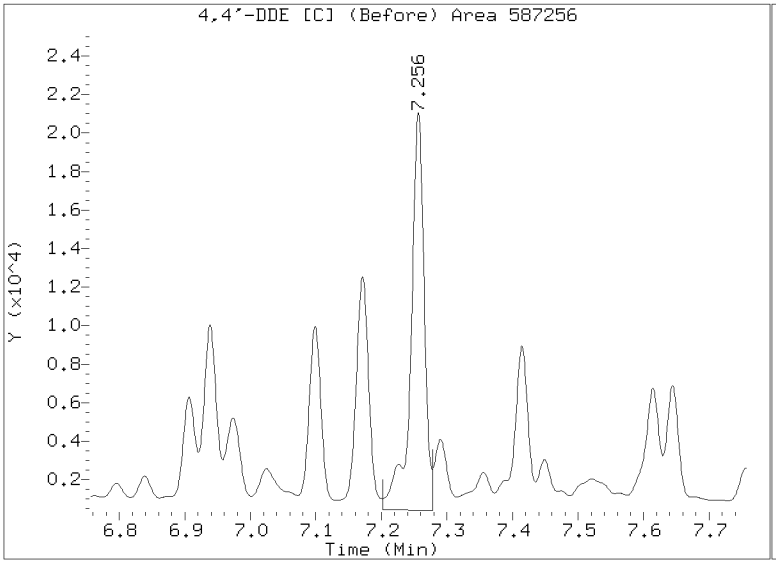
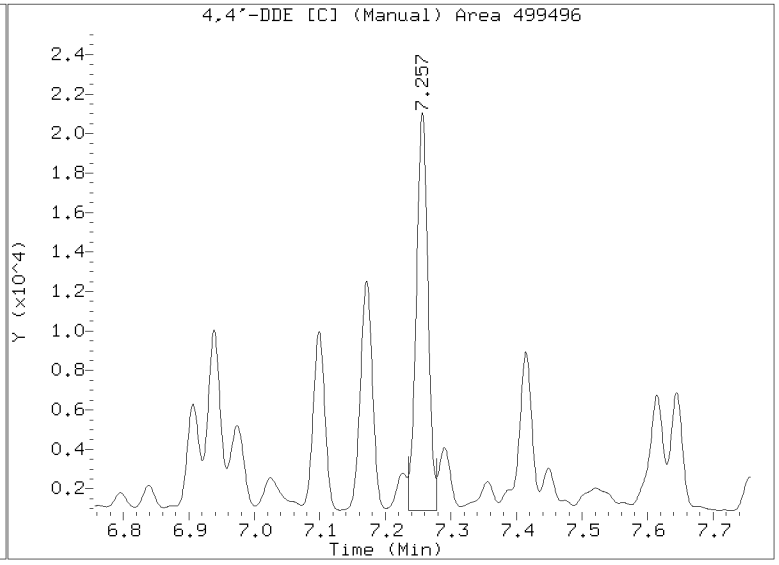
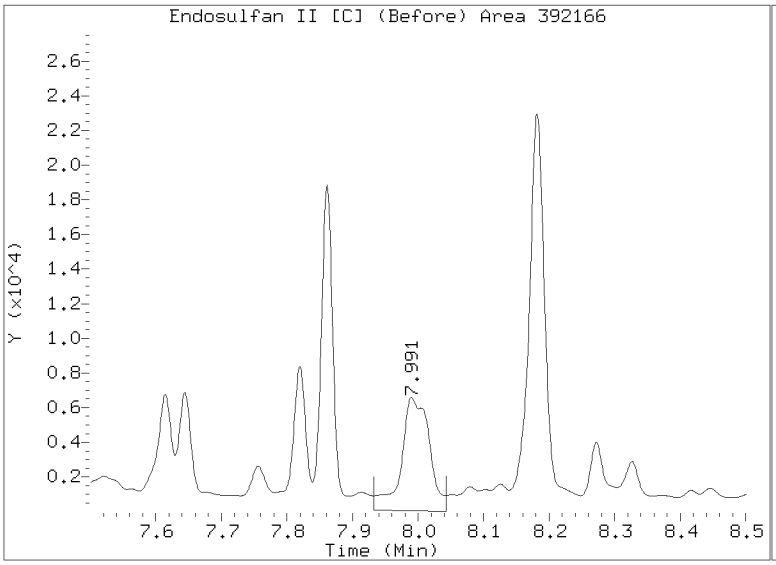
Injection Date: 13-APR-2023 02:35
Lab ID:BLD0009-MS1 Client ID:

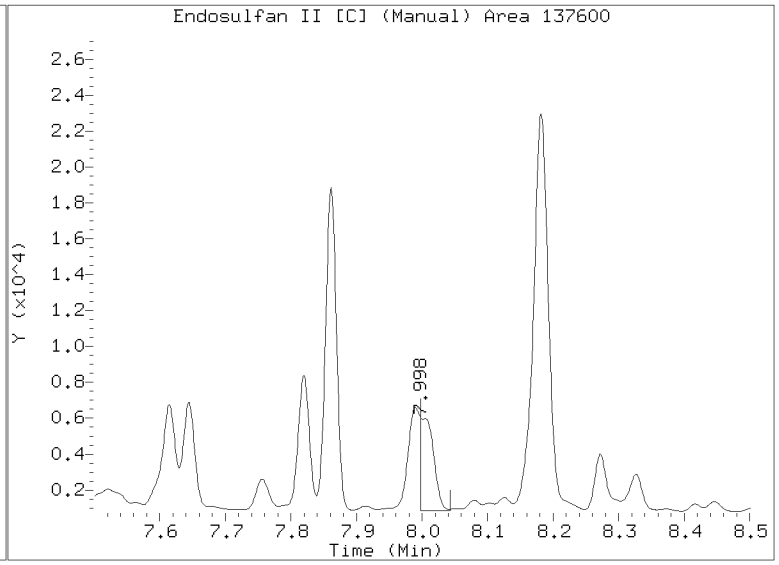












Manual Peak Adjustment Report, CLP-2

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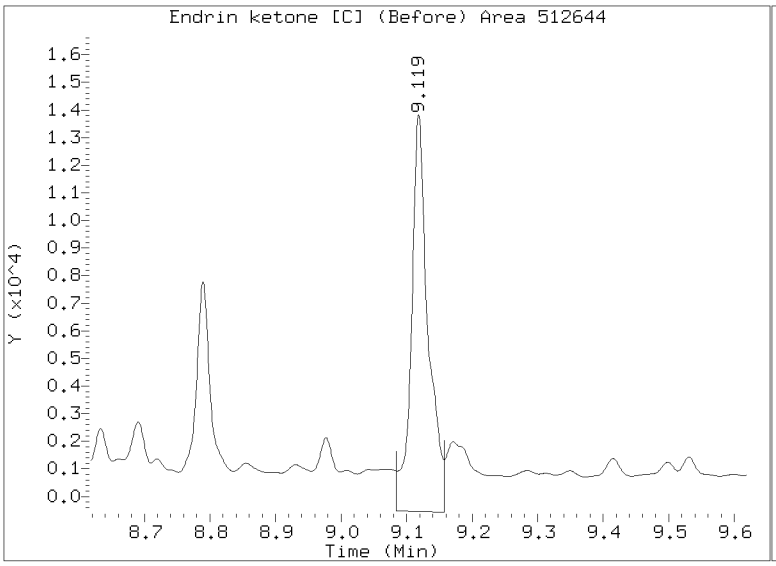
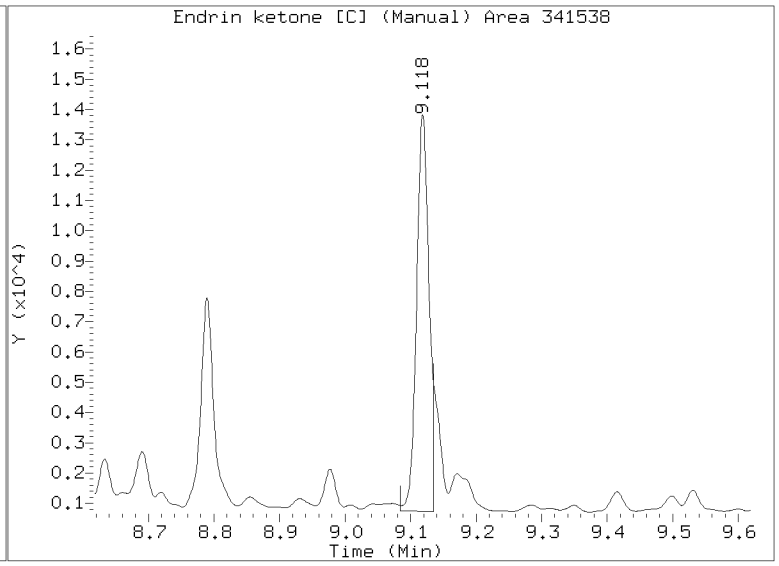
Injection Date: 13-APR-2023 02:35
Lab ID:BLD0009-MS1 Client ID:





Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041241.D
Data file 2: /20230412.b/B20230412.b/23041241.D
Method: \20230412.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: BLD0009-MSD1
Client ID:
Injection Date: 13-APR-2023 02:53
Report Date: 04/14/2023 08:21
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.332	-0.001	309009	4.761	-0.001	323157	13.64	10.60	25.0	alpha-BHC
4.716	-0.001	99279	5.228	-0.002	128694	10.97	10.63	3.2	beta-BHC
4.900	-0.001	314841	5.575	-0.002	289595	15.34	10.67	35.9	delta-BHC
4.635	-0.002	270297	5.150	-0.002	284667	13.57	10.62	24.4	gamma-BHC (Lindane)
5.123	-0.001	225525	5.670	-0.001	294973	12.24	12.55	2.5	Heptachlor
5.447	-0.001	198266	6.087	0.016	757115	10.58	31.03	98.3*	Aldrin M
6.122	-0.003	205062	6.726	-0.003	248628	12.12	11.58	4.6	Heptachlor epoxide b N
6.566	-0.001	258375	7.171	-0.001	302101	17.13	16.51	3.7	Endosulfan I
6.811	-0.017	112242	7.462	-0.004	15948	7.03	0.80	159.4*	Dieldrin N
6.487	-0.002	501559	7.256	-0.001	493844	33.32	25.87	25.2	4,4'-DDE N
----			7.820	0.030	189695	0.00	12.37	---	Endrin
7.312	-0.002	92705	8.007	0.006	129709	7.95	8.95	11.8	Endosulfan II N
7.135	-0.001	555197	7.862	-0.000	430720	49.70	30.71	47.2*	4,4'-DDD
8.177	-0.000	199166	8.597	-0.001	235599	18.13	17.65	2.6	Endosulfan sulfate
7.429	-0.002	570976	8.182	0.001	712502	47.46	50.36	5.9	4,4'-DDT
7.947	0.027	38270	----			7.43	0.00	---	Methoxychlor
8.451	-0.001	287741	9.119	0.000	389612	22.95	26.74	15.2	Endrin ketone
7.771	0.028	81285	8.327	-0.004	61454	9.14	5.86	43.6*	Endrin aldehyde
6.265	-0.001	207744	6.939	0.000	245097	12.55	11.90	5.3	trans-Chlordane
6.413	-0.000	249972	7.099	-0.001	227066	15.04	11.20	29.3	cis-Chlordane
2.307	-0.002	288663	2.451	-0.002	218115	12.35	7.88	44.2*	Hexachlorobutadiene
4.173	-0.002	276205	4.621	-0.001	320962	13.77	12.06	13.3	Hexachlorobenzene
3.818	-0.001	403286	4.135	-0.001	519509	27.81	26.29	5.6	Tetrachloro-m-xylene
9.367	0.001	253900	10.306	0.000	309678	29.89	33.66	11.9	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

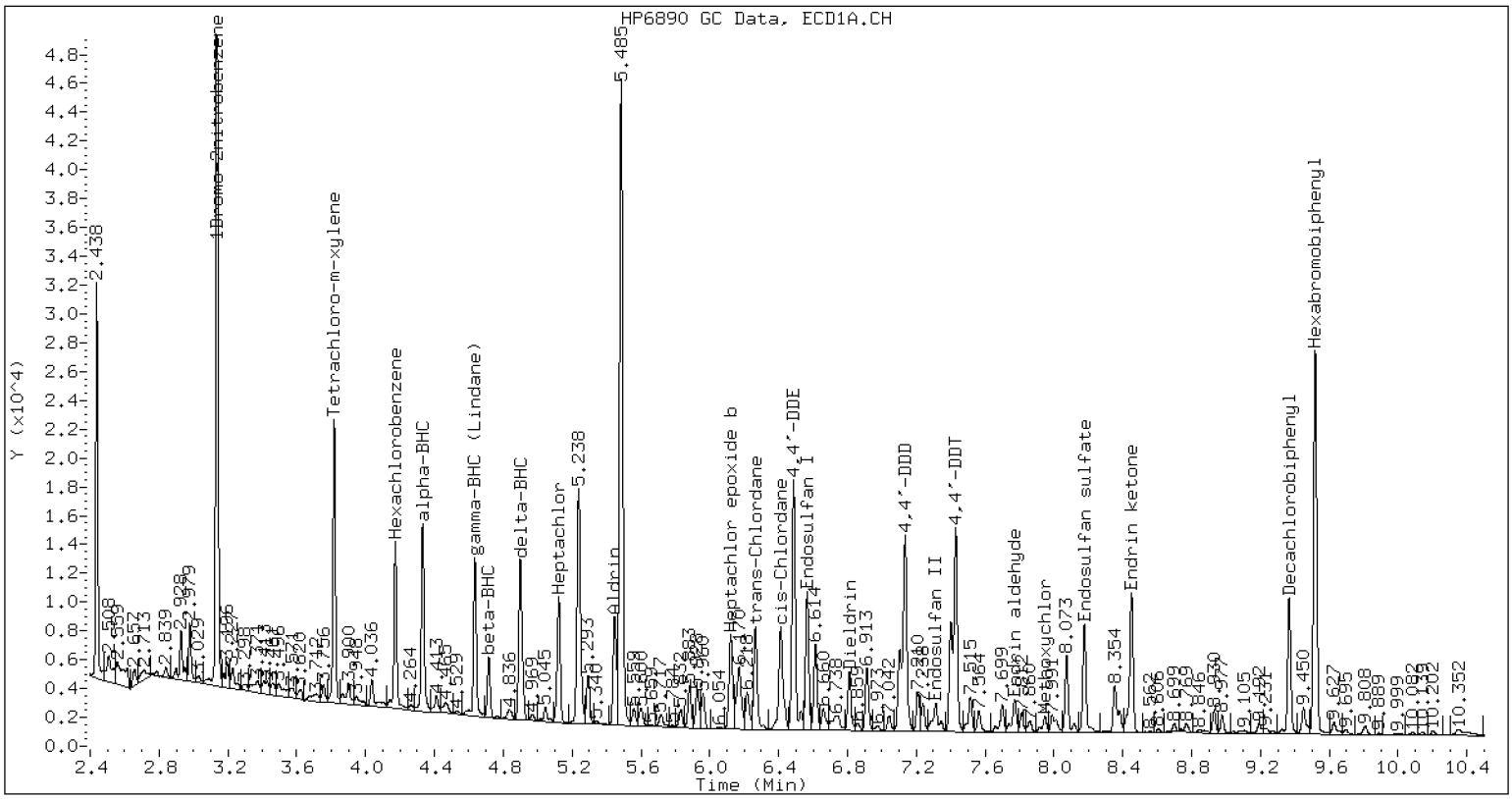
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	1036357	19.9
Hexabromobiphenyl	663237	720144	8.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1436936	-3.0
Hexabromobiphenyl	870561	762214	-12.4

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

/20230412.b/23041241.D BLD0009-MSD1 STX-CLP 13-APR-2023 02:53 1ul



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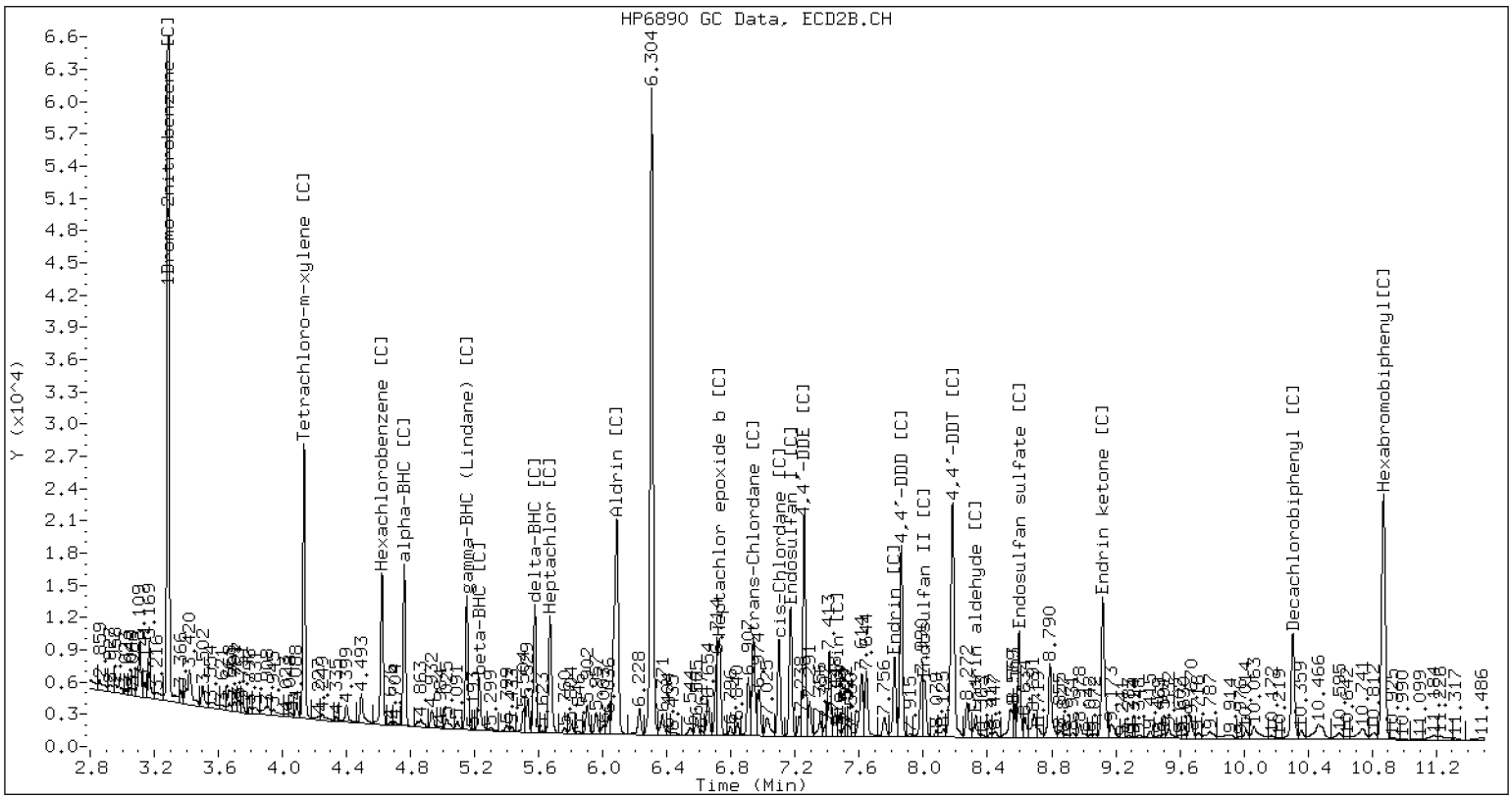
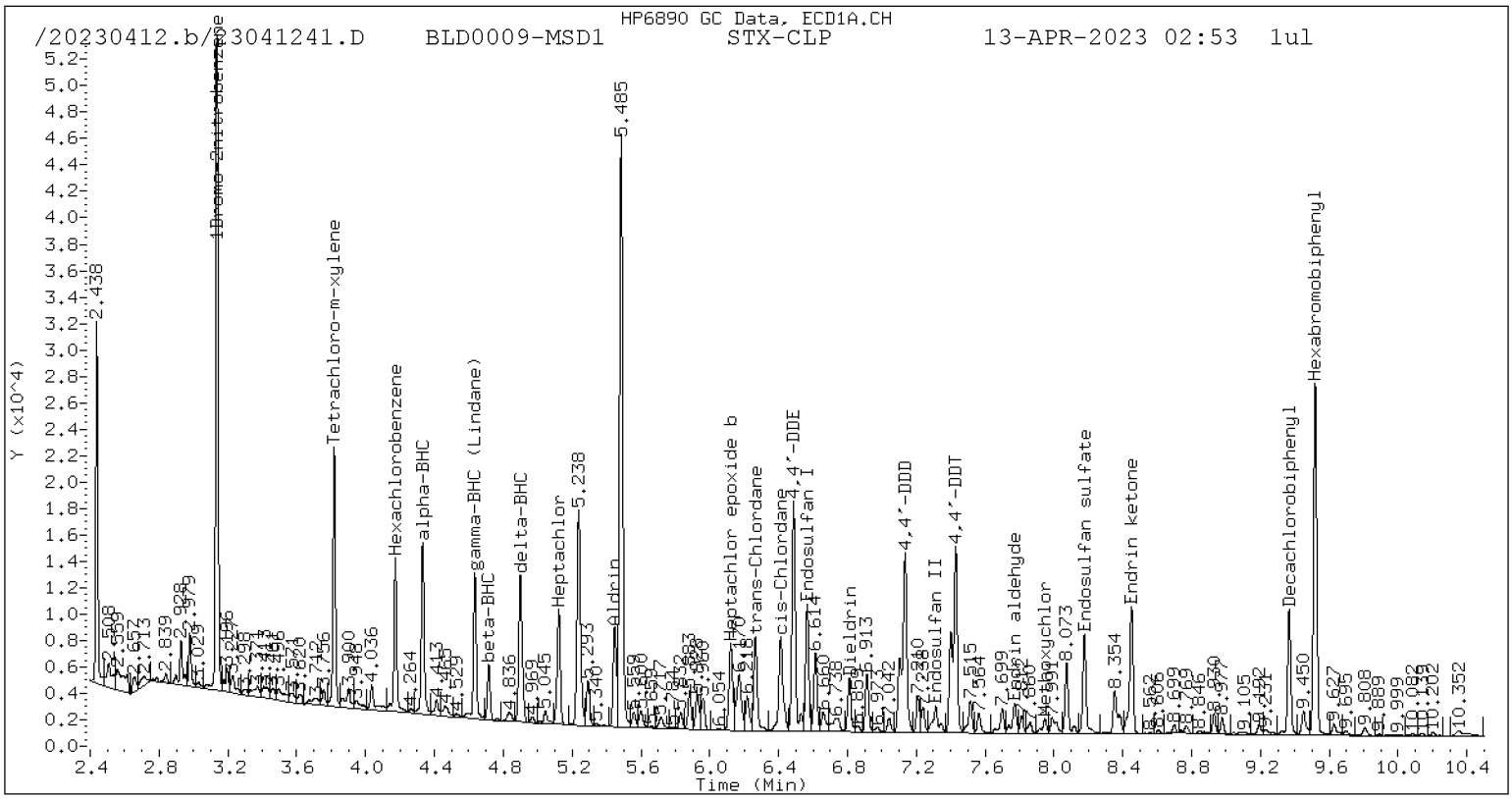
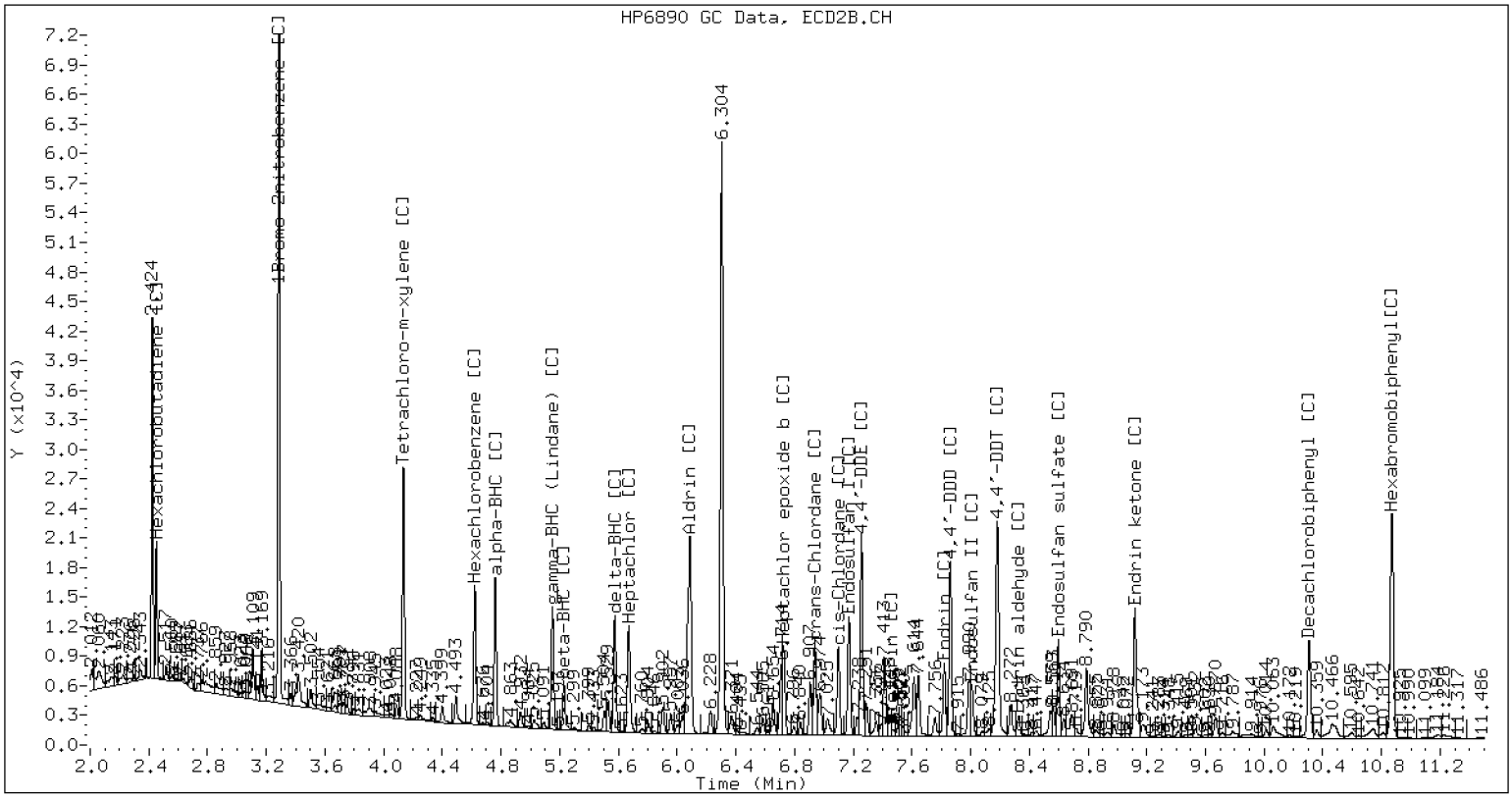


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

/20230412.b/B20230412.b/23041241.D BLD0009-MSD1 CLP2



CLP-2 Manual Integration: YES

Manual Peak Adjustment Report, STX-CLP

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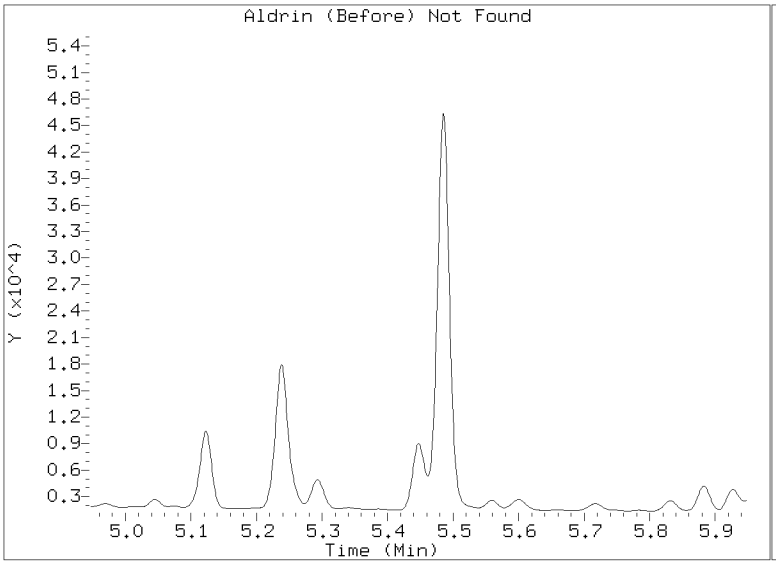
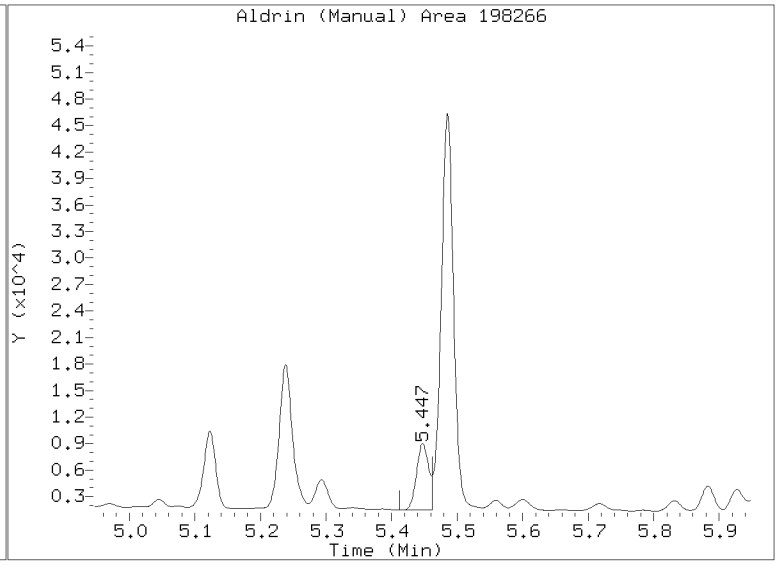
Injection Date: 13-APR-2023 02:53
Lab ID:BLD0009-MSD1 Client ID:
Report Date: 04/14/2023 08:21





Manual Peak Adjustment Report, CLP-2

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Injection Date: 13-APR-2023 02:53
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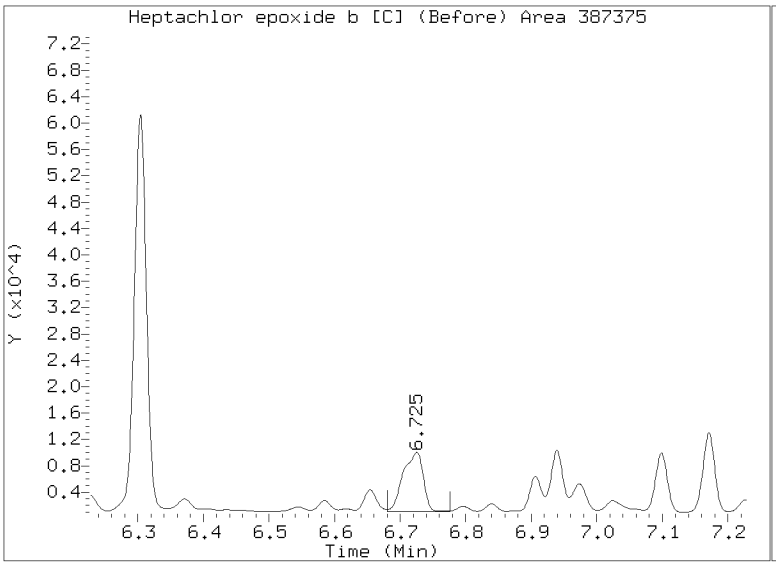

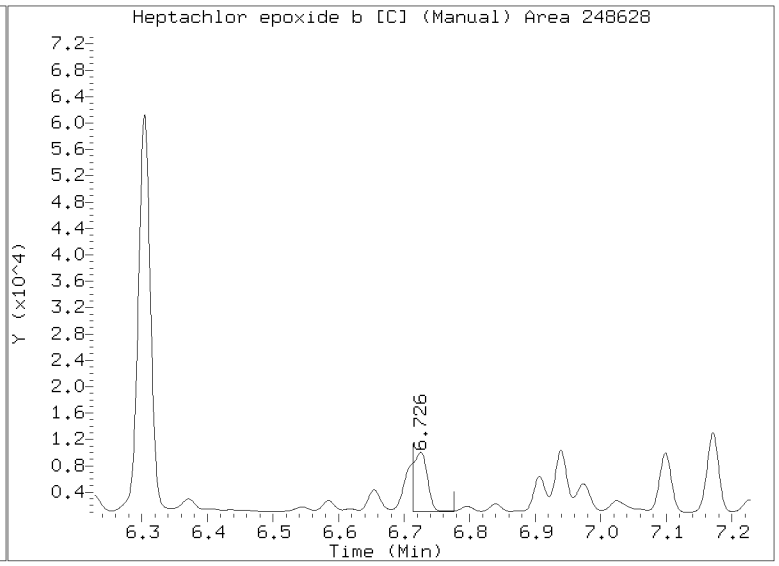

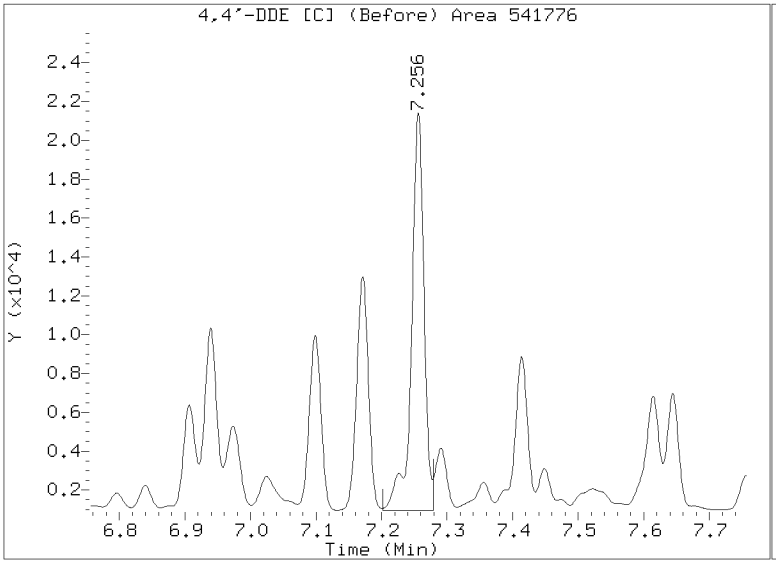

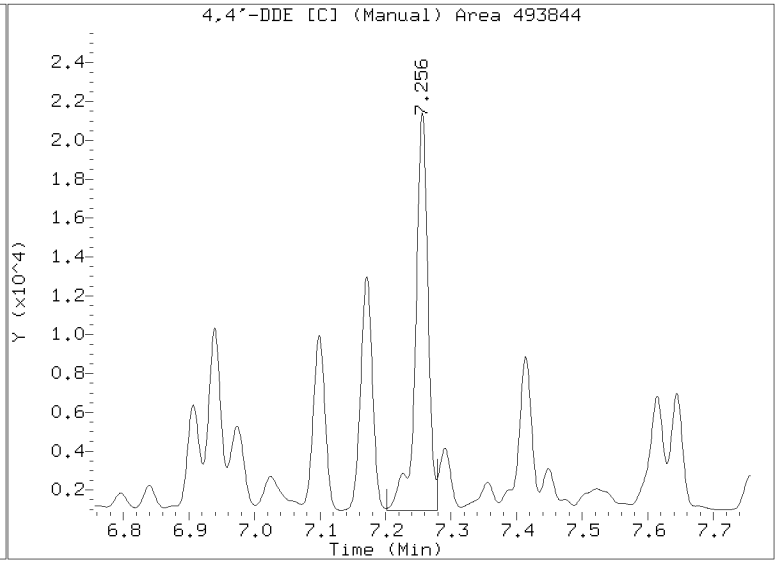

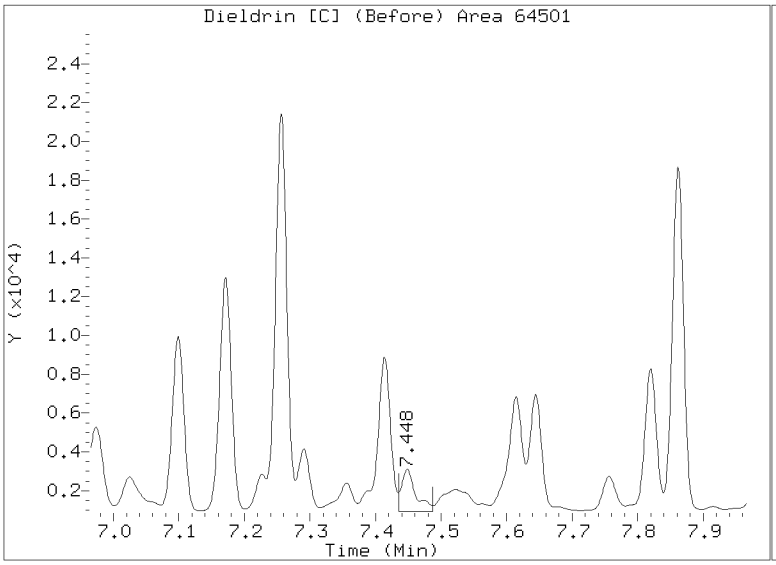

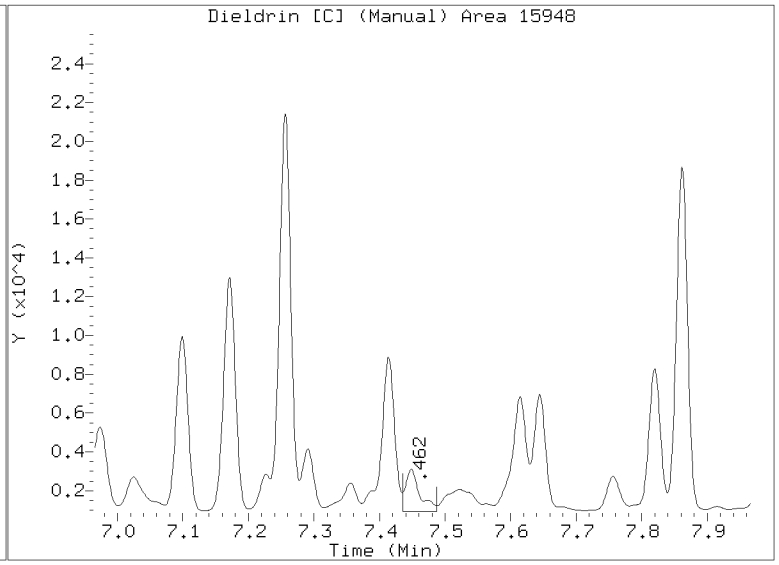

Manual Peak Adjustment Report, CLP-2

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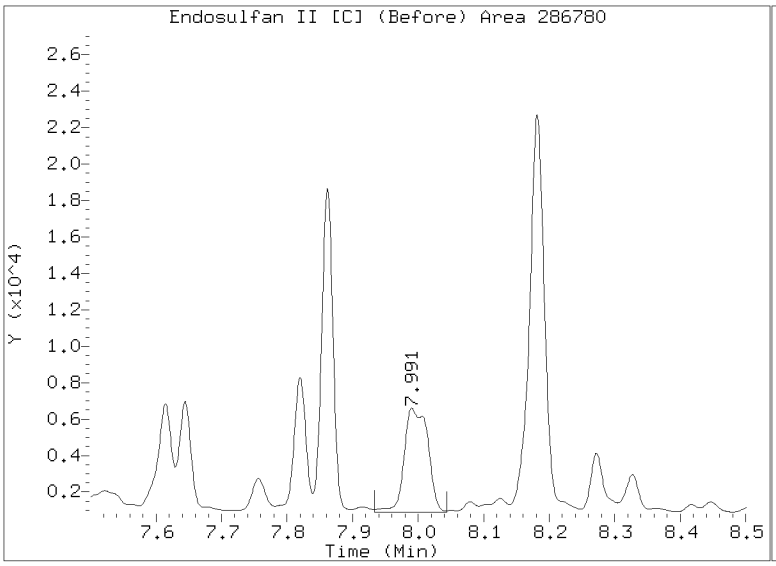
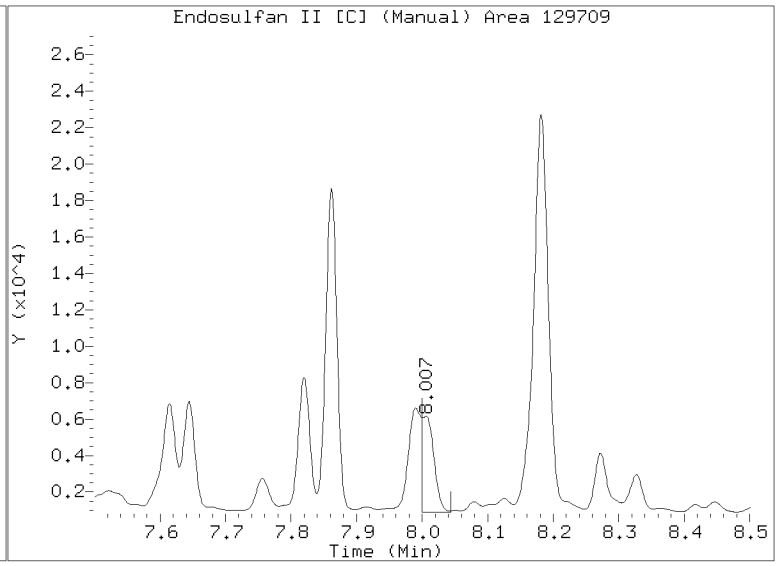
Lab ID:BLD0009-MSD1 Client ID:





INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GD00035	Instrument:	ECD6
Calibration Date:	04/12/2023	Column (1):	STX-CLP

Calibration Comments: PEST

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
Hexachlorobenzene	1.25	1.762453	2.5	1.689934	5	1.607175	10	1.570994	20	1.468142	40	1.417979
Decachlorobiphenyl	2.5	1.222654	5	1.128374	10	0.9768294	20	0.9096561	40	0.8271431	80	0.8027704
Tetrachlorometaxylene	2.5	1.255658	5	1.227805	10	1.182654	20	1.158038	40	1.071055	80	1.01536

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GD00035	Instrument:	ECD6
Calibration Date:	04/12/2023	Column (1):	STX-CLP

Calibration Comments: PEST

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Hexachlorobenzene	80	1.319539										
Decachlorobiphenyl	160	0.7377625										
Tetrachlorometaxylene	160	0.9251255										

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GD00035	Instrument:	ECD6
Calibration Date:	04/12/2023	Column (1):	STX-CLP

Calibration Comments: PEST

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	Conc		Conc		Conc		Conc		Conc		Conc	

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GD00035	Instrument:	ECD6
Calibration Date:	04/12/2023	Column (1):	STX-CLP

Calibration Comments: PEST

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	Conc		Conc		Conc		Conc		Conc		Conc	

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GD00035	Instrument:	ECD6
Calibration Date:	04/12/2023	Column (1):	STX-CLP

Calibration Comments: PEST

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Hexachlorobenzene	1.548031	10.1	0.9986		LCOD ()	
Decachlorobiphenyl	0.9435985	18.9	0.9984		LCOD ()	
Tetrachlorometaxylene	1.119385	10.7	0.9974		LCOD ()	

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GD00035	Instrument:	ECD6
Calibration Date:	04/12/2023	Column (2):	STX-CLPII

Calibration Comments: PEST

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
Hexachlorobenzene [2C]	1.25	1.637651	2.5	1.581918	5	1.532249	10	1.523234	20	1.427207	40	1.378405
Decachlorobiphenyl [2C]	2.5	1.110954	5	1.06919	10	1.031738	20	0.9714922	40	0.8913407	80	0.8617554
Tetrachlorometaxylene [2C]	2.5	1.21095	5	1.18796	10	1.162806	20	1.152165	40	1.062725	80	1.003709

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GD00035	Instrument:	ECD6
Calibration Date:	04/12/2023	Column (2):	STX-CLPII

Calibration Comments: PEST

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Hexachlorobenzene [2C]	80	1.294186										
Decachlorobiphenyl [2C]	160	0.8227871										
Tetrachlorometaxylene [2C]	160	0.9200768										

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GD00035	Instrument:	ECD6
Calibration Date:	04/12/2023	Column (2):	STX-CLPII

Calibration Comments: PEST

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	Conc		Conc		Conc		Conc		Conc		Conc	

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GD00035	Instrument:	ECD6
Calibration Date:	04/12/2023	Column (2):	STX-CLPII

Calibration Comments: PEST

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	Conc		Conc		Conc		Conc		Conc		Conc	

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GD00035	Instrument:	ECD6
Calibration Date:	04/12/2023	Column (2):	STX-CLPII

Calibration Comments: PEST

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Hexachlorobenzene [2C]	1.482121	8.1	0.9988		LCOD ()	
Decachlorobiphenyl [2C]	0.9656082	11.4	0.9994		LCOD ()	
Tetrachlorometaxylene [2C]	1.100056	9.8	0.9976		LCOD ()	

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLD0187

Instrument: ECD6
Calibration ID: UNASSIGNED

Printed: 4/14/2023 8:38:57AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLD0187-PEM1	QC		1		L002116	L000844		
SLD0187-CAL1	QC		2		L003348	L000844		
SLD0187-CAL2	QC		3		L003347	L000844		
SLD0187-CAL3	QC		4		L003346	L000844		
SLD0187-CAL4	QC		5		L003345	L000844		
SLD0187-CAL5	QC		6		L003344	L000844		
SLD0187-CAL6	QC		7		L003343	L000844		
SLD0187-CAL7	QC		8		L000560	L000844		
SLD0187-CAL8	QC		9		L003342	L000844		
SLD0187-CAL9	QC		10		L003341	L000844		
SLD0187-CALA	QC		11		L003340	L000844		
SLD0187-CALB	QC		12		L003339	L000844		
SLD0187-CALC	QC		13		L003338	L000844		
SLD0187-CALD	QC		14		L003337	L000844		
SLD0187-CALE	QC		15		L000377	L000844		
SLD0187-CALF	QC		16		L003398	L000844		
SLD0187-CALG	QC		17		L003397	L000844		
SLD0187-CALH	QC		18		L003396	L000844		
SLD0187-CALI	QC		19		L003395	L000844		
SLD0187-CALJ	QC		20		L003394	L000844		
SLD0187-CALK	QC		21		L003393	L000844		

Samples Loaded By Date

Data Processed By Date

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLD0187

Instrument: ECD6
Calibration ID: UNASSIGNED

Printed: 4/14/2023 8:38:57AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLD0187-CALL	QC		22		L000559	L000844		
SLD0187-SCV1	QC		23		L003155	L000844		
SLD0187-SCV2	QC		24		L003156	L000844		
SLD0187-PEM2	QC		25		L002116	L000844		
SLD0187-ICV1	QC		26		L003344	L000844		
SLD0187-ICV2	QC		27		L003338	L000844		
BLD0075-BLK1	QC		28			L000844		
BLD0075-BS1	QC		29			L000844		
BLD0075-MRL1	QC		30			L000844		
23D0028-01	8081B Pest	E 01	31			L000844	Associated Earth Sciences, Inc	
SLD0187-PEM3	QC		32		L002116	L000844		
SLD0187-CCV1	QC		33		L003344	L000844		
SLD0187-CCV2	QC		34		L003338	L000844		
BLD0009-BLK1	QC		35			L000844		
BLD0009-BS1	QC		36			L000844		
BLD0009-BSD1	QC		37			L000844		
BLD0009-MS1	QC		38			L000844		
BLD0009-MSD1	QC		39			L000844		
23C0752-01	8081B Pest (PSDDA)	A 03	40			L000844	Anchor QEA, LLC	
23C0752-02	8081B Pest (PSDDA)	A 03	41			L000844	Anchor QEA, LLC	
23C0752-03	8081B Pest (PSDDA)	A 03	42			L000844	Anchor QEA, LLC	

Samples Loaded By Date

Data Processed By Date

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLD0187

Instrument: ECD6
Calibration ID: UNASSIGNED

Printed: 4/14/2023 8:38:57AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
23C0752-04	8081B Pest (PSDDA)	A 03	43			L000844	Anchor QEA, LLC	
23C0752-06	8081B Pest (PSDDA)	A 03	44			L000844	Anchor QEA, LLC	
SLD0187-PEM4	QC		45		L002116	L000844		
SLD0187-CCV3	QC		46		L000845	L000844		
SLD0187-CCV4	QC		47		L003338	L000844		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230412.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	12-APR-2023 14:57	23041202.D	1	SEQ-IB	
2	12-APR-2023 15:16	23041203.D	1	SEQ-PEM1	
3	12-APR-2023 15:34	23041204.D	1	SEQ-CAL1	
4	12-APR-2023 15:53	23041205.D	1	SEQ-CAL2	
5	12-APR-2023 16:11	23041206.D	1	SEQ-CAL3	
6	12-APR-2023 16:30	23041207.D	1	SEQ-CAL5	
7	12-APR-2023 16:48	23041208.D	1	SEQ-CAL4	
8	12-APR-2023 17:06	23041209.D	1	SEQ-CAL6	
9	12-APR-2023 17:25	23041210.D	1	SEQ-CAL7	
10	12-APR-2023 17:43	23041211.D	1	SEQ-CAL8	
11	12-APR-2023 18:02	23041212.D	1	SEQ-CAL9	
12	12-APR-2023 18:20	23041213.D	1	SEQ-CALA	
13	12-APR-2023 18:38	23041214.D	1	SEQ-CALB	
14	12-APR-2023 18:57	23041215.D	1	SEQ-CALC	
15	12-APR-2023 19:15	23041216.D	1	SEQ-CALD	
16	12-APR-2023 19:34	23041217.D	1	SEQ-CALE	
17	12-APR-2023 19:52	23041218.D	1	SEQ-CALF	
18	12-APR-2023 20:10	23041219.D	1	SEQ-CALG	
19	12-APR-2023 20:29	23041220.D	1	SEQ-CALH	
20	12-APR-2023 20:47	23041221.D	1	SEQ-CALI	
21	12-APR-2023 21:05	23041222.D	1	SEQ-CALJ	
22	12-APR-2023 21:24	23041223.D	1	SEQ-CALK	
23	12-APR-2023 21:42	23041224.D	1	SEQ-CALL	
24	12-APR-2023 22:00	23041225.D	1	SEQ-SCV1	
25	12-APR-2023 22:19	23041226.D	1	SEQ-SCV2	
26	12-APR-2023 22:37	23041227.D	1	SEQ-PEM2	
27	12-APR-2023 22:55	23041228.D	1	SEQ-ICV1	
28	12-APR-2023 23:14	23041229.D	1	SEQ-ICV2	
29	12-APR-2023 23:32	23041230.D	1	BLD0075-BLK1	
30	12-APR-2023 23:50	23041231.D	1	BLD0075-BS1	
31	13-APR-2023 00:09	23041232.D	1	BLD0075-MRL1	
32	13-APR-2023 00:27	23041233.D	1	23D0028-01	
33	13-APR-2023 00:45	23041234.D	1	SEQ-PEM3	
34	13-APR-2023 01:04	23041235.D	1	SEQ-CCV1	
35	13-APR-2023 01:22	23041236.D	1	SEQ-CCV2	
36	13-APR-2023 01:40	23041237.D	1	BLD0009-BLK1	
37	13-APR-2023 01:59	23041238.D	1	BLD0009-BS1	
38	13-APR-2023 02:17	23041239.D	1	BLD0009-BSD1	
39	13-APR-2023 02:35	23041240.D	1	BLD0009-MS1	
40	13-APR-2023 02:53	23041241.D	1	BLD0009-MSD1	
41	13-APR-2023 03:12	23041242.D	1	23C0752-01	
42	13-APR-2023 03:30	23041243.D	1	23C0752-02	
43	13-APR-2023 03:48	23041244.D	1	23C0752-03	
44	13-APR-2023 04:07	23041245.D	1	23C0752-04	
45	13-APR-2023 04:25	23041246.D	1	23C0752-06	
46	13-APR-2023 04:43	23041247.D	1	SEQ-PEM4	
47	13-APR-2023 05:02	23041248.D	1	SEQ-CCV3	
48	13-APR-2023 05:20	23041249.D	1	SEQ-CCV4	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230412.b

ARI Job No.: SEQ- Method: PEST.m Instrument: ecd6.i Date: 12-APR-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1457	23041202.D	SEQ-IB		1	NO MANUAL INTEGRATION
1516	23041203.D	SEQ-PEM1		1	NO MANUAL INTEGRATION
1534	23041204.D	SEQ-CAL1		1	NO MANUAL INTEGRATION
1553	23041205.D	SEQ-CAL2		1	NO MANUAL INTEGRATION
1611	23041206.D	SEQ-CAL3		1	NO MANUAL INTEGRATION
1630	23041207.D	SEQ-CAL5		1	NO MANUAL INTEGRATION
1648	23041208.D	SEQ-CAL4		1	NO MANUAL INTEGRATION
1706	23041209.D	SEQ-CAL6		1	NO MANUAL INTEGRATION
1725	23041210.D	SEQ-CAL7		1	alpha-BHC, beta-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Aldrin, Heptachlor epoxide b, Erdosulfan I, Dieldrin, 4,4'-DDE, Endrin, Endosulfan II, 4,4'-DDD, Endosulfan sulfate, 4,4'-DDT, Methoxychlor, Endrin ketone, Endrin aldehyde, trans-Chlordane, cis-Chlordane, Hexachlorobe
1743	23041211.D	SEQ-CAL8		1	NO MANUAL INTEGRATION
1802	23041212.D	SEQ-CAL9		1	NO MANUAL INTEGRATION
1820	23041213.D	SEQ-CALA		1	NO MANUAL INTEGRATION
1838	23041214.D	SEQ-CALB		1	NO MANUAL INTEGRATION
1857	23041215.D	SEQ-CALC		1	NO MANUAL INTEGRATION
1915	23041216.D	SEQ-CALD		1	NO MANUAL INTEGRATION
1934	23041217.D	SEQ-CALE		1	Oxychlordane, 2,4-DDE, trans-Nonachlor, 2,4-DDD, 2,4-DDT, cis-Nonachlor, Mirex,
1952	23041218.D	SEQ-CALF		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230412.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2010	23041219.D	SEQ-CALG		1	NO MANUAL INTEGRATION
2029	23041220.D	SEQ-CALH		1	NO MANUAL INTEGRATION
2047	23041221.D	SEQ-CALI		1	NO MANUAL INTEGRATION
2105	23041222.D	SEQ-CALJ		1	NO MANUAL INTEGRATION
2124	23041223.D	SEQ-CALK		1	NO MANUAL INTEGRATION
2142	23041224.D	SEQ-CALL		1	NO MANUAL INTEGRATION
2200	23041225.D	SEQ-SCV1		1	NO MANUAL INTEGRATION
2219	23041226.D	SEQ-SCV2		1	NO MANUAL INTEGRATION
2237	23041227.D	SEQ-PEM2		1	NO MANUAL INTEGRATION
2255	23041228.D	SEQ-ICV1		1	NO MANUAL INTEGRATION
2314	23041229.D	SEQ-ICV2		1	NO MANUAL INTEGRATION
2332	23041230.D	BLD0075-BLK1		1	NO MANUAL INTEGRATION
2350	23041231.D	BLD0075-BS1		1	NO MANUAL INTEGRATION
0009	23041232.D	BLD0075-MRL1		1	NO MANUAL INTEGRATION
0027	23041233.D	23D0028-01		1	NO MANUAL INTEGRATION
0045	23041234.D	SEQ-PEM3		1	Endrin, 4,4'-DDD,
0104	23041235.D	SEQ-CCV1		1	NO MANUAL INTEGRATION
0122	23041236.D	SEQ-CCV2		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230412.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0140	23041237.D	BLD0009-BLK1		1	NO MANUAL INTEGRATION
0159	23041238.D	BLD0009-BS1		1	NO MANUAL INTEGRATION
0217	23041239.D	BLD0009-BSD1		1	NO MANUAL INTEGRATION
0235	23041240.D	BLD0009-MS1		1	Endrin, 4,4'-DDD, 4,4'-DDT,
0253	23041241.D	BLD0009-MSD1		1	Aldrin,
0312	23041242.D	23C0752-01		1	delta-BHC, gamma-BHC (Lindane), Endrin, 4,4'-DDD, 4,4'-DDT, Endrin aldehyde, Toxaphene, cis-Nonachlor,
0330	23041243.D	23C0752-02		1	Endrin, 4,4'-DDD, 4,4'-DDT, trans-Chlordane, cis-Chlordane, Toxaphene, trans-Nonachlor, cis-Nonachlor, Chlordane (NOS),
0348	23041244.D	23C0752-03		1	Dieldrin, 4,4'-DDD, cis-Chlordane, Hexachlorobenzene, trans-Nonachlor, cis-Nonachlor, Chlordane (NOS),
0407	23041245.D	23C0752-04		1	delta-BHC, Endrin, 4,4'-DDD, 4,4'-DDT, trans-Chlordane, cis-Chlordane, Toxaphene, trans-Nonachlor, cis-Nonachlor, Chlordane (NOS),
0425	23041246.D	23C0752-06		1	Endrin, 4,4'-DDT, cis-Chlordane, Toxaphene, cis-Nonachlor, Mirex, Chlordane (NOS),
0443	23041247.D	SEQ-PEM4		1	Endrin, 4,4'-DDD,
0502	23041248.D	SEQ-CCV3		1	Hexabromobiphenyl,
0520	23041249.D	SEQ-CCV4		1	NO MANUAL INTEGRATION

Security Status Report

Date: 14-Apr-2023 08:24

23041202.D	Data Locked	yev, 14-
23041203.D	Data Locked	yev, 14-
23041204.D	Data Locked	yev, 14-
23041205.D	Data Locked	yev, 14-
23041206.D	Data Locked	yev, 14-
23041207.D	Data Locked	yev, 14-
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23041241.D	Data Locked	yev, 14-
23041242.D	Data Locked	yev, 14-
23041243.D	Data Locked	yev, 14-
23041244.D	Data Locked	yev, 14-
23041245.D	Data Locked	yev, 14-
23041246.D	Data Locked	yev, 14-
23041247.D	Data Locked	yev, 14-
23041248.D	Data Locked	yev, 14-
23041249.D	Data Locked	yev, 14-

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20230412.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20230412.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	23041204	23041205	23041206	23041207	23041208	23041209	23041210
INJ.DATE:	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023
INJ.TIME:	15:34	15:53	16:11	16:30	16:48	17:06	17:25

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	1 Hexachlorobutadiene	2.308	2.308	2.308	2.309	2.308	2.309	2.309	2.308	2.278-2.338	2.308	0.000
*	2 1Bromo-2nitrobenzene	3.137	3.138	3.138	3.138	3.138	3.138	3.138	3.137	3.107-3.167	3.138	0.000
*	3 Hexabromobiphenyl	9.516	9.516	9.516	9.515	9.515	9.516	9.516	9.516	9.486-9.546	9.516	0.000
$	4 Tetrachloro-m-xylene	3.819	3.820	3.819	3.819	3.819	3.819	3.819	3.819	3.789-3.849	3.819	0.000
	5 Hexachlorobenzene	4.175	4.175	4.175	4.175	4.175	4.175	4.175	4.175	4.145-4.205	4.175	0.000
	6 alpha-BHC	4.333	4.334	4.333	4.334	4.333	4.333	4.333	4.333	4.303-4.363	4.333	0.000
	7 gamma-BHC (Lindane)	4.637	4.637	4.637	4.637	4.637	4.637	4.637	4.637	4.607-4.667	4.637	0.000
	8 beta-BHC	4.718	4.718	4.717	4.717	4.717	4.717	4.717	4.718	4.688-4.748	4.717	0.001
	9 delta-BHC	4.902	4.902	4.902	4.902	4.901	4.901	4.901	4.902	4.873-4.933	4.902	0.001
	10 Heptachlor	5.125	5.125	5.125	5.125	5.125	5.125	5.124	5.125	5.095-5.155	5.125	0.000
	11 Aldrin	5.449	5.449	5.449	5.449	5.449	5.448	5.448	5.449	5.419-5.479	5.449	0.000
	12 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.627	13.597-13.657	+++++	+++++
	13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.869	10.839-10.899	+++++	+++++
	14 Heptachlor epoxide b	6.127	6.125	6.125	6.125	6.125	6.125	6.125	6.127	6.097-6.157	6.125	0.001
	15 cis-Chlordane	6.414	6.414	6.414	6.413	6.413	6.414	6.413	6.414	6.384-6.444	6.414	0.000
	16 trans-Chlordane	6.267	6.267	6.267	6.267	6.267	6.266	6.266	6.267	6.237-6.297	6.267	0.000
	17 Endosulfan I	6.568	6.567	6.567	6.568	6.567	6.567	6.567	6.568	6.538-6.598	6.567	0.000

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20230412.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20230412.b
Inst ID: ecd6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	18 4,4'-DDE	6.491	6.490	6.489	6.490	6.490	6.489	6.489	6.491	6.461-6.521	6.490	0.001
	19 Dieldrin	6.828	6.828	6.828	6.828	6.828	6.829	6.828	6.828	6.798-6.858	6.828	0.000
	20 Endrin	7.079	7.079	7.078	7.078	7.078	7.078	7.078	7.079	7.049-7.109	7.078	0.000
	21 4,4'-DDD	7.138	7.138	7.137	7.137	7.137	7.137	7.136	7.138	7.108-7.168	7.137	0.001
	22 Endosulfan II	7.315	7.315	7.315	7.315	7.314	7.314	7.314	7.315	7.285-7.345	7.315	0.000
	23 4,4'-DDT	7.431	7.431	7.431	7.431	7.431	7.431	7.431	7.431	7.401-7.461	7.431	0.000
	24 Endrin aldehyde	7.744	7.743	7.743	7.743	7.743	7.743	7.743	7.744	7.714-7.774	7.743	0.000
	25 Methoxychlor	7.920	7.920	7.919	7.920	7.920	7.920	7.920	7.920	7.890-7.950	7.920	0.000
	26 Endosulfan sulfate	8.178	8.178	8.177	8.177	8.178	8.178	8.177	8.178	8.148-8.208	8.178	0.000
	27 Endrin ketone	8.453	8.453	8.452	8.452	8.452	8.452	8.452	8.453	8.423-8.482	8.452	0.000
$	28 Decachlorobiphenyl	9.367	9.367	9.366	9.366	9.366	9.367	9.366	9.367	9.337-9.397	9.366	0.000
	29 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.765	3.735-3.795	+++++	+++++
	30 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.881	4.851-4.911	+++++	+++++
	31 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.359	5.329-5.389	+++++	+++++
	32 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.765	3.735-3.795	+++++	+++++
	33 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.418	4.388-4.448	+++++	+++++
	34 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.257	5.227-5.287	+++++	+++++
	35 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.045	6.015-6.075	+++++	+++++
	36 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.301	8.271-8.331	+++++	+++++
	37 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.259	11.229-11.289	+++++	+++++
	38 Toxaphene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.430	7.400-7.460	+++++	+++++
	39 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.106	6.076-6.136	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20230412.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20230412.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
40 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.682	6.652-6.712	+++++	+++++
41 2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.959	6.929-6.989	+++++	+++++
42 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.774	1.744-1.804	+++++	+++++
43 Oxychlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.010	5.980-6.040	+++++	+++++
44 trans-Nonachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.396	6.366-6.426	+++++	+++++
45 cis-Nonachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.112	7.082-7.142	+++++	+++++
46 Mirex	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.086	8.056-8.116	+++++	+++++
47 bis-(2-ethylhexyl) Pht	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.156	20.126-20.186	+++++	+++++
48 Chlordane (NOS)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.593	5.563-5.623	+++++	+++++
49 Trifluralin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.319	6.289-6.349	+++++	+++++
50 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.936	9.906-9.966	+++++	+++++
51 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.891	11.861-11.921	+++++	+++++
52 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.827	14.797-14.857	+++++	+++++
53 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.750	9.720-9.780	+++++	+++++
54 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.107	9.077-9.137	+++++	+++++
55 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.251	10.221-10.281	+++++	+++++
56 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.588	6.558-6.618	+++++	+++++
57 1-Chloropyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.953	6.923-6.983	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20230412.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20230412.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	23041211	23041212	23041213	23041214	23041215	23041216	23041217
INJ.DATE:	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023
INJ.TIME:	17:43	18:02	18:20	18:38	18:57	19:15	19:34

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	1 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.309	2.279-2.339	+++++	+++++
*	2 1Bromo-2nitrobenzene	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.108-3.168	3.138	0.000
*	3 Hexabromobiphenyl	9.516	9.516	9.516	9.516	9.516	9.516	9.516	9.516	9.486-9.546	9.516	0.000
$	4 Tetrachloro-m-xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.819	3.789-3.849	+++++	+++++
	5 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.175	4.145-4.205	+++++	+++++
	6 alpha-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.333	4.303-4.363	+++++	+++++
	7 gamma-BHC (Lindane)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.637	4.607-4.667	+++++	+++++
	8 beta-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.717	4.687-4.747	+++++	+++++
	9 delta-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.901	4.871-4.931	+++++	+++++
	10 Heptachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.124	5.094-5.154	+++++	+++++
	11 Aldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.448	5.418-5.478	+++++	+++++
	12 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.627	13.597-13.657	+++++	+++++
	13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.869	10.839-10.899	+++++	+++++
	14 Heptachlor epoxide b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.125	6.095-6.155	+++++	+++++
	15 cis-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.413	6.383-6.443	+++++	+++++
	16 trans-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.266	6.236-6.296	+++++	+++++
	17 Endosulfan I	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.567	6.537-6.597	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20230412.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20230412.b
Inst ID: ecd6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	18 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.489	6.459-6.519	+++++	+++++
	19 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.828	6.798-6.858	+++++	+++++
	20 Endrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.078	7.048-7.108	+++++	+++++
	21 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.136	7.106-7.166	+++++	+++++
	22 Endosulfan II	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.314	7.284-7.344	+++++	+++++
	23 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.431	7.401-7.461	+++++	+++++
	24 Endrin aldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.743	7.713-7.773	+++++	+++++
	25 Methoxychlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.920	7.890-7.950	+++++	+++++
	26 Endosulfan sulfate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.177	8.147-8.207	+++++	+++++
	27 Endrin ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.452	8.422-8.482	+++++	+++++
$	28 Decachlorobiphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.366	9.336-9.396	+++++	+++++
	29 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.765	3.735-3.795	+++++	+++++
	30 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.881	4.851-4.911	+++++	+++++
	31 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.359	5.329-5.389	+++++	+++++
	32 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.765	3.735-3.795	+++++	+++++
	33 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.418	4.388-4.448	+++++	+++++
	34 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.257	5.227-5.287	+++++	+++++
	35 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.045	6.015-6.075	+++++	+++++
	36 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.301	8.271-8.331	+++++	+++++
	37 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.259	11.229-11.289	+++++	+++++
	38 Toxaphene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.430	7.400-7.460	+++++	+++++
	39 2,4-DDE	+++++	6.106	6.106	6.106	6.106	6.106	6.105	6.106	6.076-6.136	6.106	0.001

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20230412.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20230412.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
40 2,4-DDD	+++++	6.682	6.682	6.682	6.681	6.681	6.681	6.682	6.652-6.712	6.681	0.000
41 2,4-DDT	+++++	6.959	6.959	6.960	6.959	6.958	6.959	6.959	6.929-6.989	6.959	0.000
42 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.774	1.744-1.804	+++++	+++++
43 Oxychlordane	+++++	6.010	6.009	6.010	6.010	6.010	6.009	6.010	5.980-6.040	6.010	0.000
44 trans-Nonachlor	+++++	6.396	6.396	6.396	6.396	6.395	6.395	6.396	6.366-6.426	6.395	0.000
45 cis-Nonachlor	+++++	7.112	7.112	7.112	7.112	7.112	7.112	7.112	7.082-7.142	7.112	0.000
46 Mirex	+++++	8.086	8.086	8.086	8.086	8.086	8.086	8.086	8.056-8.116	8.086	0.000
47 bis-(2-ethylhexyl) Pht	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.156	20.126-20.186	+++++	+++++
48 Chlordane (NOS)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.593	5.563-5.623	+++++	+++++
49 Trifluralin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.319	6.289-6.349	+++++	+++++
50 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.936	9.906-9.966	+++++	+++++
51 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.891	11.861-11.921	+++++	+++++
52 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.827	14.797-14.857	+++++	+++++
53 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.750	9.720-9.780	+++++	+++++
54 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.107	9.077-9.137	+++++	+++++
55 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.251	10.221-10.281	+++++	+++++
56 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.588	6.558-6.618	+++++	+++++
57 1-Chloropyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.953	6.923-6.983	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20230412.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20230412.b\B20230412.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	23041204	23041205	23041206	23041207	23041208	23041209	23041210
INJ.DATE:	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023
INJ.TIME:	15:34	15:53	16:11	16:30	16:48	17:06	17:25

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	1 Hexachlorobutadiene [C]	2.452	2.452	2.452	2.452	2.452	2.453	2.453	2.453	2.423-2.483	2.452	0.000
*	2 1Bromo-2nitrobenzene [	3.287	3.288	3.287	3.288	3.287	3.287	3.288	3.287	3.257-3.317	3.288	0.000
*	3 Hexabromobiphenyl[C]	10.870	10.870	10.869	10.869	10.870	10.870	10.870	10.869	10.839-10.899	10.870	0.000
$	4 Tetrachloro-m-xylene [	4.136	4.136	4.136	4.136	4.136	4.136	4.136	4.136	4.106-4.166	4.136	0.000
	5 Hexachlorobenzene [C]	4.622	4.622	4.622	4.623	4.622	4.623	4.622	4.622	4.592-4.652	4.622	0.000
	6 alpha-BHC [C]	4.761	4.762	4.761	4.762	4.762	4.762	4.762	4.762	4.732-4.792	4.762	0.000
	7 gamma-BHC (Lindane) [C	5.152	5.152	5.151	5.152	5.152	5.152	5.152	5.152	5.122-5.182	5.152	0.000
	8 beta-BHC [C]	5.230	5.230	5.229	5.230	5.230	5.230	5.230	5.230	5.200-5.260	5.230	0.000
	9 delta-BHC [C]	5.578	5.577	5.576	5.577	5.577	5.577	5.577	5.577	5.547-5.607	5.577	0.000
	10 Heptachlor [C]	5.671	5.671	5.670	5.671	5.672	5.671	5.671	5.671	5.641-5.701	5.671	0.000
	11 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.588	14.558-14.618	+++++	+++++
	12 Aldrin [C]	6.070	6.070	6.070	6.070	6.070	6.071	6.071	6.071	6.041-6.101	6.070	0.000
	13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.680	12.650-12.710	+++++	+++++
	14 Heptachlor epoxide b [	6.728	6.728	6.728	6.728	6.728	6.729	6.729	6.729	6.699-6.759	6.728	0.000
	15 cis-Chlordane [C]	7.099	7.100	7.099	7.099	7.100	7.100	7.100	7.100	7.070-7.130	7.100	0.000
	16 trans-Chlordane [C]	6.939	6.940	6.939	6.939	6.939	6.940	6.939	6.939	6.909-6.969	6.939	0.000
	17 Endosulfan I [C]	7.172	7.172	7.171	7.172	7.172	7.173	7.172	7.172	7.142-7.202	7.172	0.000

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20230412.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20230412.b\B20230412.b
Inst ID: ecd6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	18 4,4'-DDE [C]	7.257	7.257	7.257	7.257	7.257	7.257	7.257	7.257	7.227-7.287	7.257	0.000
	19 Dieldrin [C]	7.466	7.466	7.465	7.466	7.466	7.466	7.466	7.466	7.436-7.496	7.466	0.000
	20 Endrin [C]	7.789	7.790	7.789	7.790	7.789	7.790	7.790	7.790	7.760-7.820	7.790	0.000
	21 4,4'-DDD [C]	7.862	7.862	7.862	7.862	7.862	7.862	7.862	7.862	7.832-7.892	7.862	0.000
	22 Endosulfan II [C]	8.001	8.000	8.000	8.000	8.000	8.001	8.001	8.001	7.971-8.031	8.000	0.000
	23 4,4'-DDT [C]	8.180	8.180	8.180	8.180	8.181	8.181	8.181	8.181	8.151-8.211	8.180	0.000
	24 Endrin aldehyde [C]	8.331	8.331	8.330	8.331	8.331	8.332	8.331	8.331	8.301-8.361	8.331	0.000
	25 Endosulfan sulfate [C]	8.598	8.598	8.597	8.598	8.598	8.598	8.598	8.598	8.568-8.628	8.598	0.000
	26 Methoxychlor [C]	8.820	8.821	8.820	8.821	8.821	8.821	8.822	8.822	8.792-8.852	8.821	0.001
	27 Endrin ketone [C]	9.119	9.119	9.119	9.119	9.119	9.120	9.119	9.119	9.089-9.149	9.119	0.000
$	28 Decachlorobiphenyl [C]	10.306	10.306	10.305	10.305	10.306	10.306	10.306	10.306	10.276-10.336	10.306	0.000
	29 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.180	4.150-4.210	+++++	+++++
	30 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.051	5.021-5.081	+++++	+++++
	31 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.171	5.141-5.201	+++++	+++++
	32 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.970	4.940-5.000	+++++	+++++
	33 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.285	5.255-5.315	+++++	+++++
	34 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.968	5.938-5.998	+++++	+++++
	35 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.767	6.737-6.797	+++++	+++++
	36 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.714	9.684-9.744	+++++	+++++
	37 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.791	11.761-11.821	+++++	+++++
	38 Toxaphene [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.440	7.410-7.470	+++++	+++++
	39 2,4-DDE [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.921	6.891-6.951	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20230412.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20230412.b\B20230412.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
40 2,4-DDD [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.477	7.447-7.507	+++++	+++++
41 2,4-DDT [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.799	7.769-7.829	+++++	+++++
42 Hexachloroethane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.676	1.646-1.706	+++++	+++++
43 Oxychlordane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.624	6.594-6.654	+++++	+++++
44 trans-Nonachlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.039	7.009-7.069	+++++	+++++
45 cis-Nonachlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.859	7.829-7.889	+++++	+++++
46 Mirex [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.101	9.071-9.131	+++++	+++++
47 bis-(2-ethylhexyl) Pht	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.499	21.469-21.529	+++++	+++++
48 Chlordane (NOS) [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.612	5.582-5.642	+++++	+++++
49 Trifluralin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.871	4.841-4.901	+++++	+++++
50 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.640	6.610-6.670	+++++	+++++
51 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.115	8.085-8.145	+++++	+++++
52 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.286	11.256-11.316	+++++	+++++
53 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.527	6.497-6.557	+++++	+++++
54 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.342	6.312-6.372	+++++	+++++
55 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.841	6.811-6.871	+++++	+++++
56 Kepone [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.336	7.306-7.366	+++++	+++++
57 1-Chloropyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.745	7.715-7.775	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20230412.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20230412.b\B20230412.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	23041211	23041212	23041213	23041214	23041215	23041216	23041217
INJ.DATE:	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023
INJ.TIME:	17:43	18:02	18:20	18:38	18:57	19:15	19:34

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	1 Hexachlorobutadiene [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.453	2.423-2.483	+++++	+++++
*	2 1Bromo-2nitrobenzene [	3.287	3.287	3.287	3.288	3.288	3.287	3.287	3.287	3.257-3.317	3.287	0.000
*	3 Hexabromobiphenyl[C]	10.870	10.870	10.870	10.870	10.870	10.870	10.870	10.869	10.839-10.899	10.870	0.000
$	4 Tetrachloro-m-xylene [	+++++	+++++	+++++	+++++	+++++	4.135	4.136	4.136	4.106-4.166	4.136	0.000
	5 Hexachlorobenzene [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.622	4.592-4.652	+++++	+++++
	6 alpha-BHC [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.762	4.732-4.792	+++++	+++++
	7 gamma-BHC (Lindane) [C	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.152	5.122-5.182	+++++	+++++
	8 beta-BHC [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.230	5.200-5.260	+++++	+++++
	9 delta-BHC [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.577	5.547-5.607	+++++	+++++
	10 Heptachlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.671	5.641-5.701	+++++	+++++
	11 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.588	14.558-14.618	+++++	+++++
	12 Aldrin [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.071	6.041-6.101	+++++	+++++
	13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.680	12.650-12.710	+++++	+++++
	14 Heptachlor epoxide b [	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.729	6.699-6.759	+++++	+++++
	15 cis-Chlordane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.100	7.070-7.130	+++++	+++++
	16 trans-Chlordane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.939	6.909-6.969	+++++	+++++
	17 Endosulfan I [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.172	7.142-7.202	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20230412.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20230412.b\B20230412.b
Inst ID: ecd6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	18 4,4'-DDE [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.257	7.227-7.287	+++++	+++++
	19 Dieldrin [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.466	7.436-7.496	+++++	+++++
	20 Endrin [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.790	7.760-7.820	+++++	+++++
	21 4,4'-DDD [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.862	7.832-7.892	+++++	+++++
	22 Endosulfan II [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.001	7.971-8.031	+++++	+++++
	23 4,4'-DDT [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.181	8.151-8.211	+++++	+++++
	24 Endrin aldehyde [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.331	8.301-8.361	+++++	+++++
	25 Endosulfan sulfate [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.598	8.568-8.628	+++++	+++++
	26 Methoxychlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.822	8.792-8.852	+++++	+++++
	27 Endrin ketone [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.119	9.089-9.149	+++++	+++++
$	28 Decachlorobiphenyl [C]	+++++	+++++	+++++	10.309	10.309	10.309	10.308	10.306	10.276-10.336	10.309	0.001
	29 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.180	4.150-4.210	+++++	+++++
	30 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.051	5.021-5.081	+++++	+++++
	31 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.171	5.141-5.201	+++++	+++++
	32 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.970	4.940-5.000	+++++	+++++
	33 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.285	5.255-5.315	+++++	+++++
	34 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.968	5.938-5.998	+++++	+++++
	35 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.767	6.737-6.797	+++++	+++++
	36 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.714	9.684-9.744	+++++	+++++
	37 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.791	11.761-11.821	+++++	+++++
	38 Toxaphene [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.440	7.410-7.470	+++++	+++++
	39 2,4-DDE [C]	6.922	6.921	6.921	6.922	6.921	6.921	6.921	6.921	6.891-6.951	6.921	0.000

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20230412.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20230412.b\B20230412.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
40 2,4-DDD [C]	7.477	7.477	7.477	7.476	7.476	7.476	7.477	7.477	7.447-7.507	7.476	0.000
41 2,4-DDT [C]	7.799	7.798	7.799	7.799	7.799	7.798	7.799	7.799	7.769-7.829	7.799	0.000
42 Hexachloroethane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.676	1.646-1.706	+++++	+++++
43 Oxychlordane [C]	6.624	6.624	6.624	6.624	6.624	6.624	6.624	6.624	6.594-6.654	6.624	0.000
44 trans-Nonachlor [C]	7.039	7.038	7.039	7.039	7.039	7.039	7.039	7.039	7.009-7.069	7.039	0.000
45 cis-Nonachlor [C]	7.859	7.858	7.859	7.859	7.859	7.858	7.859	7.859	7.829-7.889	7.859	0.000
46 Mirex [C]	9.102	9.101	9.101	9.101	9.101	9.101	9.101	9.101	9.071-9.131	9.101	0.000
47 bis-(2-ethylhexyl) Pht	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.499	21.469-21.529	+++++	+++++
48 Chlordane (NOS) [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.612	5.582-5.642	+++++	+++++
49 Trifluralin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.871	4.841-4.901	+++++	+++++
50 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.640	6.610-6.670	+++++	+++++
51 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.115	8.085-8.145	+++++	+++++
52 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.286	11.256-11.316	+++++	+++++
53 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.527	6.497-6.557	+++++	+++++
54 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.342	6.312-6.372	+++++	+++++
55 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.841	6.811-6.871	+++++	+++++
56 Kepone [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.336	7.306-7.366	+++++	+++++
57 1-Chloropyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.745	7.715-7.775	+++++	+++++

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-APR-2023 15:34
End Cal Date : 12-APR-2023 21:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m
Last Edit : 13-Apr-2023 13:06 ecd6.i
Curve Type : Average

Calibration File Names:
Level 1: \\target\share\chem4\ecd6.i\20230412.b\23041218.D
Level 2: \\target\share\chem4\ecd6.i\20230412.b\23041219.D
Level 3: \\target\share\chem4\ecd6.i\20230412.b\23041220.D
Level 4: \\target\share\chem4\ecd6.i\20230412.b\23041221.D
Level 5: \\target\share\chem4\ecd6.i\20230412.b\23041222.D
Level 6: \\target\share\chem4\ecd6.i\20230412.b\23041223.D
Level 7: \\target\share\chem4\ecd6.i\20230412.b\23041224.D

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
1 Hexachlorobutadiene	2.06676	1.98551	1.84558	1.81938	1.70622	1.65553	1.55088	1.80426	10.110
5 Hexachlorobenzene	1.76245	1.68993	1.60717	1.57099	1.46814	1.41798	1.31954	1.54803	10.064
6 alpha-BHC	1.75845	1.79303	1.78792	1.82015	1.74640	1.71680	1.62244	1.74931	3.739
7 gamma-BHC (Lindane)	1.55969	1.58392	1.58235	1.59868	1.52927	1.49902	1.40784	1.53725	4.344
8 beta-BHC	0.78879	0.75698	0.71551	0.70150	0.66783	0.65017	0.60902	0.69854	8.893
9 delta-BHC	1.59762	1.62693	1.62475	1.65308	1.58886	1.54105	1.45446	1.58382	4.244
10 Heptachlor	1.55444	1.53135	1.49709	1.48384	1.38462	1.31527	1.19276	1.42277	9.267
11 Aldrin	1.52950	1.52030	1.51102	1.51498	1.42775	1.37062	1.25612	1.44718	7.111

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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Quant Method : ISTD
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Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m
Last Edit : 13-Apr-2023 13:06 ecd6.i
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
12 Chlorthalonil	*****	*****	*****	*****	*****	*****	*****	*****	*****
13 Heptachlor Epoxide a	*****	*****	*****	*****	*****	*****	*****	*****	*****
14 Heptachlor epoxide b	1.77461	1.35433	1.32261	1.30465	1.21044	1.14473	1.03248	1.30626	18.012
15 cis-Chlordane	1.38132	1.35475	1.32741	1.32583	1.25243	1.21449	1.12534	1.28308	7.051
16 trans-Chlordane	1.35410	1.33073	1.31479	1.32467	1.25766	1.22594	1.13926	1.27816	5.931
17 Endosulfan I	1.28039	1.25168	1.22150	1.21676	1.13336	1.07368	0.97393	1.16447	9.443
18 4,4'-DDE	1.24170	1.24927	1.22317	1.21706	1.13776	1.08081	0.98378	1.16194	8.584
19 Dieldrin	1.34743	1.34643	1.30489	1.29164	1.19395	1.12151	1.02037	1.23232	10.143
20 Endrin	1.57568	1.51238	1.45431	1.42357	1.32589	1.25651	1.12944	1.38254	11.211
21 4,4'-DDD	1.35634	1.32763	1.29400	1.28872	1.20844	1.16122	1.04973	1.24087	8.699
22 Endosulfan II	1.47728	1.43199	1.36585	1.33268	1.23064	1.17531	1.04873	1.29464	11.695

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-APR-2023 15:34
End Cal Date : 12-APR-2023 21:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m
Last Edit : 13-Apr-2023 13:06 ecd6.i
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
23 4,4'-DDT	1.46240	1.43318	1.38952	1.37913	1.29284	1.25728	1.14081	1.33645	8.438
24 Endrin aldehyde	1.14396	1.08101	1.04038	1.00916	0.93237	0.89937	0.81008	0.98805	11.597
25 Methoxychlor	0.70887	0.65387	0.60096	0.56348	0.51256	0.49735	0.47085	0.57256	15.240
26 Endosulfan sulfate	1.38827	1.35363	1.28002	1.24749	1.15302	1.11454	1.00702	1.22057	11.169
27 Endrin ketone	1.70062	1.57515	1.43531	1.38817	1.27796	1.24181	1.13023	1.39275	14.203
29 Aroclor-1016(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(5)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Aroclor-1221(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-APR-2023 15:34
End Cal Date : 12-APR-2023 21:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m
Last Edit : 13-Apr-2023 13:06 ecd6.i
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(2)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(3)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(4)	#####	#####	#####	#####	#####	#####	#####	#####	#####
31 Aroclor-1232(1)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(2)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(3)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(4)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(5)	#####	#####	#####	#####	#####	#####	#####	#####	#####
32 Aroclor-1242(1)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(2)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(3)	#####	#####	#####	#####	#####	#####	#####	#####	#####

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-APR-2023 15:34
End Cal Date : 12-APR-2023 21:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m
Last Edit : 13-Apr-2023 13:06 ecd6.i
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(6)	*****	*****	*****	*****	*****	*****	*****	*****	*****
33 Aroclor-1248(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
34 Aroclor-1254(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m
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Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
35 Aroclor-1260(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
36 Aroclor-1262(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****

ARI Labs, Inc.

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Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m
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Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
37 Aroclor-1268(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
38 Toxaphene(1)	0.02964	0.03226	0.03521	0.03252	0.03126	0.02556	0.02076	0.02960	16.566
(2)	0.04237	0.04244	0.04595	0.04487	0.04047	0.03477	0.02651	0.03962	17.214
(3)	0.05862	0.05791	0.06487	0.06029	0.05391	0.04678	0.03584	0.05403	18.141
(4)	0.04172	0.04045	0.05069	0.04873	0.04618	0.04013	0.03028	0.04260	16.014
(5)	0.02406	0.02417	0.03063	0.02984	0.02781	0.02427	0.01877	0.02565	15.995

ARI Labs, Inc.

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Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
39 2,4-DDE	+++++	0.96271	0.96579	0.91868	0.86843	0.79752	0.70837	0.87025	11.664
40 2,4-DDD	+++++	0.88281	0.89873	0.85426	0.81245	0.75323	0.67816	0.81327	10.387
41 2,4-DDT	+++++	1.07731	1.07494	1.02816	0.97817	0.90679	0.81933	0.98078	10.395
42 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 Oxychlordane	+++++	1.26894	1.32532	1.26543	1.20607	1.12176	1.02406	1.20193	9.252
44 trans-Nonachlor	+++++	1.54141	1.51800	1.46473	1.41186	1.32985	1.23122	1.41618	8.360
45 cis-Nonachlor	+++++	1.59233	1.57870	1.52677	1.47421	1.39620	1.29610	1.47739	7.740
46 Mirex	+++++	0.99781	0.99695	0.94201	0.89770	0.84639	0.78527	0.91102	9.320
47 bis-(2-ethylhexyl) Phthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 Chlordane (NOS)(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

ARI Labs, Inc.

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Integrator : HP Genie
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Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
49 Trifluralin	*****	*****	*****	*****	*****	*****	*****	*****	*****
50 Dacthal	*****	*****	*****	*****	*****	*****	*****	*****	*****
51 Oxadiazon	*****	*****	*****	*****	*****	*****	*****	*****	*****
52 Kelthane	*****	*****	*****	*****	*****	*****	*****	*****	*****
53 Chlorpyrifos	*****	*****	*****	*****	*****	*****	*****	*****	*****
54 Methyl Parathion	*****	*****	*****	*****	*****	*****	*****	*****	*****
55 Ethyl Parathion	*****	*****	*****	*****	*****	*****	*****	*****	*****
56 Kepone	*****	*****	*****	*****	*****	*****	*****	*****	*****
57 1-Chloropyrene	*****	*****	*****	*****	*****	*****	*****	*****	*****
$ 4 Tetrachloro-m-xylene	1.25566	1.22780	1.18265	1.15804	1.07105	1.01536	0.92513	1.11939	10.740

ARI Labs, Inc.

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Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	80.000 Level 7							
$ 28 Decachlorobiphenyl	1.22265	1.12837	0.97683	0.90966	0.82714	0.80277		
	0.73776						0.94360	18.860

ARI Labs, Inc.

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Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m\PESTB.m
Last Edit : 13-Apr-2023 12:43 ecd6.i
Curve Type : Average

Calibration File Names:
Level 1: \\target\share\chem4\ecd6.i\20230412.b\B20230412.b\23041218.D
Level 2: \\target\share\chem4\ecd6.i\20230412.b\B20230412.b\23041219.D
Level 3: \\target\share\chem4\ecd6.i\20230412.b\B20230412.b\23041220.D
Level 4: \\target\share\chem4\ecd6.i\20230412.b\B20230412.b\23041221.D
Level 5: \\target\share\chem4\ecd6.i\20230412.b\B20230412.b\23041222.D
Level 6: \\target\share\chem4\ecd6.i\20230412.b\B20230412.b\23041223.D
Level 7: \\target\share\chem4\ecd6.i\20230412.b\B20230412.b\23041224.D

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
						80.000 Level 7		
1 Hexachlorobutadiene [C]	1.68175	1.59096	1.60748	1.61038	1.49696	1.45925		
						1.33902	1.54083	7.539
5 Hexachlorobenzene [C]	1.63765	1.58192	1.53225	1.52323	1.42721	1.37840		
						1.29419	1.48212	8.145
6 alpha-BHC [C]	1.63462	1.67867	1.71056	1.77219	1.71975	1.71612		
						1.64801	1.69713	2.779
7 gamma-BHC (Lindane) [C]	1.48009	1.48711	1.51015	1.55733	1.49836	1.49181		
						1.41985	1.49210	2.737
8 beta-BHC [C]	0.74714	0.70583	0.68405	0.68422	0.64813	0.64123		
						0.60839	0.67414	6.802
9 delta-BHC [C]	1.48755	1.49763	1.52471	1.57911	1.52554	1.52030		
						1.44063	1.51078	2.809
10 Heptachlor [C]	1.37389	1.35320	1.35361	1.37453	1.29676	1.25563		
						1.15202	1.30852	6.247
11 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++		
						+++++	+++++	

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Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
12 Aldrin [C]	1.39523	1.38135	1.39556	1.42793	1.36125	1.32392	1.22309	1.35833	4.993
13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Heptachlor epoxide b [C]	1.56323	1.20249	1.18929	1.19890	1.12726	1.08936	0.99933	1.19569	14.872
15 cis-Chlordane [C]	1.19498	1.16010	1.15172	1.16525	1.10932	1.09197	1.02977	1.12902	4.952
16 trans-Chlordane [C]	1.19368	1.16300	1.16384	1.18747	1.13804	1.12279	1.05677	1.14651	4.085
17 Endosulfan I [C]	1.08731	1.05822	1.05274	1.06193	1.00305	0.97183	0.89638	1.01878	6.548
18 4,4'-DDE [C]	1.12212	1.12143	1.12052	1.12760	1.04668	0.99351	0.90867	1.06293	7.992
19 Dieldrin [C]	1.19866	1.18503	1.16992	1.16774	1.08900	1.04163	0.96463	1.11666	7.871
20 Endrin [C]	1.78067	1.74471	1.68317	1.66518	1.56413	1.46925	1.36399	1.61016	9.423
21 4,4'-DDD [C]	1.57958	1.54965	1.50467	1.51523	1.44353	1.39149	1.31906	1.47189	6.277
22 Endosulfan II [C]	1.67704	1.62917	1.57040	1.56415	1.47191	1.40267	1.33218	1.52108	8.159

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Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	80.000 Level 7							
23 4,4'-DDT [C]	1.60092	1.55757	1.51411	1.52351	1.44879	1.40898		
	1.34107						1.48499	6.076
24 Endrin aldehyde [C]	1.25337	1.18287	1.12863	1.11827	1.05217	1.01258		
	0.95076						1.09981	9.372
25 Endosulfan sulfate [C]	1.55683	1.49557	1.43410	1.42713	1.35325	1.30546		
	1.23196						1.40062	7.982
26 Methoxychlor [C]	0.75597	0.70472	0.65874	0.63180	0.58097	0.56318		
	0.56181						0.63674	11.732
27 Endrin ketone [C]	1.75477	1.67216	1.56779	1.54355	1.44756	1.39441		
	1.32623						1.52949	9.953
29 Aroclor-1016(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
(5)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++
30 Aroclor-1221(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	+++++						+++++	+++++

ARI Labs, Inc.

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Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(2)	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
(3)	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
(4)	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
31 Aroclor-1232(1)	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
(2)	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
(3)	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
(4)	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
(5)	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
32 Aroclor-1242(1)	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
(2)	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	
(3)	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++						+++++	+++++	

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Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(4)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(5)	#####	#####	#####	#####	#####	#####	#####	#####	#####
33 Aroclor-1248(1)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(2)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(3)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(4)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(5)	#####	#####	#####	#####	#####	#####	#####	#####	#####
34 Aroclor-1254(1)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(2)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(3)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(4)	#####	#####	#####	#####	#####	#####	#####	#####	#####

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Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(5)	#####	#####	#####	#####	#####	#####	#####	#####	#####
35 Aroclor-1260(1)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(2)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(3)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(4)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(5)	#####	#####	#####	#####	#####	#####	#####	#####	#####
36 Aroclor-1262(1)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(2)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(3)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(4)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(5)	#####	#####	#####	#####	#####	#####	#####	#####	#####

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Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m\PESTB.m
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Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	80.000 Level 7							
37 Aroclor-1268(1)	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
(2)	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
(3)	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
(4)	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
(5)	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
38 Toxaphene [C](1)	0.02960	0.02897	0.02869	0.02664	0.02372	0.02271		
	0.01995						0.02576	14.316
(2)	0.08918	0.08648	0.08486	0.07864	0.06865	0.06553		
	0.05881						0.07602	15.453
(3)	0.06792	0.06646	0.06603	0.06172	0.05457	0.05229		
	0.04648						0.05935	13.972
(4)	0.07276	0.07135	0.06974	0.06542	0.05866	0.05671		
	0.05156						0.06374	12.837
(5)	0.03882	0.03832	0.03789	0.03573	0.03246	0.03203		
	0.02918						0.03492	10.684
39 2,4-DDE [C]	0.75845	0.72899	0.70778	0.69440	0.65651	0.59759		
	0.53401						0.66825	11.787

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Last Edit : 13-Apr-2023 12:43 ecd6.i
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	80.000 Level 7							
40 2,4-DDD [C]	1.12937	1.06142	1.05101	1.01695	0.98327	0.92485		
	0.84627						1.00188	9.375
41 2,4-DDT [C]	1.28576	1.20894	1.19812	1.16271	1.12721	1.06684		
	0.96934						1.14556	9.038
42 Hexachloroethane [C]	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
43 Oxychlordane [C]	0.99553	0.97475	0.94837	0.94350	0.90717	0.84779		
	0.78529						0.91463	8.155
44 trans-Nonachlor [C]	1.85055	1.66441	1.77907	1.73821	1.69126	1.60386		
	1.46338						1.68439	7.480
45 cis-Nonachlor [C]	1.87416	1.79479	1.80526	1.78076	1.73947	1.66348		
	1.53301						1.74156	6.446
46 Mirex [C]	1.14525	1.09368	1.04777	0.99189	0.96224	0.92321		
	0.87240						1.00520	9.580
47 bis-(2-ethylhexyl) Phthalate	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
48 Chlordane (NOS) [C](1)	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
(2)	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
(3)	*****	*****	*****	*****	*****	*****		
	*****						*****	*****

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-APR-2023 15:34
End Cal Date : 12-APR-2023 21:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m\PESTB.m
Last Edit : 13-Apr-2023 12:43 ecd6.i
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	RRF	% RSD
49 Trifluralin	*****	*****	*****	*****	*****	*****	*****	*****	*****
50 Dacthal	*****	*****	*****	*****	*****	*****	*****	*****	*****
51 Oxadiazon	*****	*****	*****	*****	*****	*****	*****	*****	*****
52 Kelthane	*****	*****	*****	*****	*****	*****	*****	*****	*****
53 Chlorpyrifos	*****	*****	*****	*****	*****	*****	*****	*****	*****
54 Methyl Parathion	*****	*****	*****	*****	*****	*****	*****	*****	*****
55 Ethyl Parathion	*****	*****	*****	*****	*****	*****	*****	*****	*****
56 Kepone [C]	*****	*****	*****	*****	*****	*****	*****	*****	*****
57 1-Chloropyrene	*****	*****	*****	*****	*****	*****	*****	*****	*****
$ 4 Tetrachloro-m-xylene [C]	1.21095	1.18796	1.16281	1.15216	1.06273	1.00371	0.92008	1.10006	9.801
$ 28 Decachlorobiphenyl [C]	1.11095	1.06919	1.03174	0.97149	0.89134	0.86176	0.82279	0.96561	11.420

7E

8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: SEQ-PEM1 InstID,Data File: ecd6.i, 23041203.D

Analysis Date: 12-APR-2023 15:16 Init. Calib. Date: 12-APR-2023

GC Column: STX-CLP1 ID: 0.53(mm)

COMPOUND	RT	AREA
1Bromo-2nitrobenzene	3.138	944928
4,4'-DDE	6.491	7178
Endrin	7.079	1094493
4,4'-DDD	7.138	----
4,4'-DDT	7.432	1044833
Endrin ketone	8.453	17361
Endrin aldehyde	7.745	11672
Hexabromobiphenyl	9.517	750693
Tetrachloro-m-xylene	3.820	499864
Decachlorobiphenyl	9.367	304586

DDT Percent Breakdown = 0.7 %
((7178+0) * 100)/(7178+0+1044833)

Endrin Percent Breakdown = 2.6 %
((11672+17361) * 100)/(11672+17361+1094493)

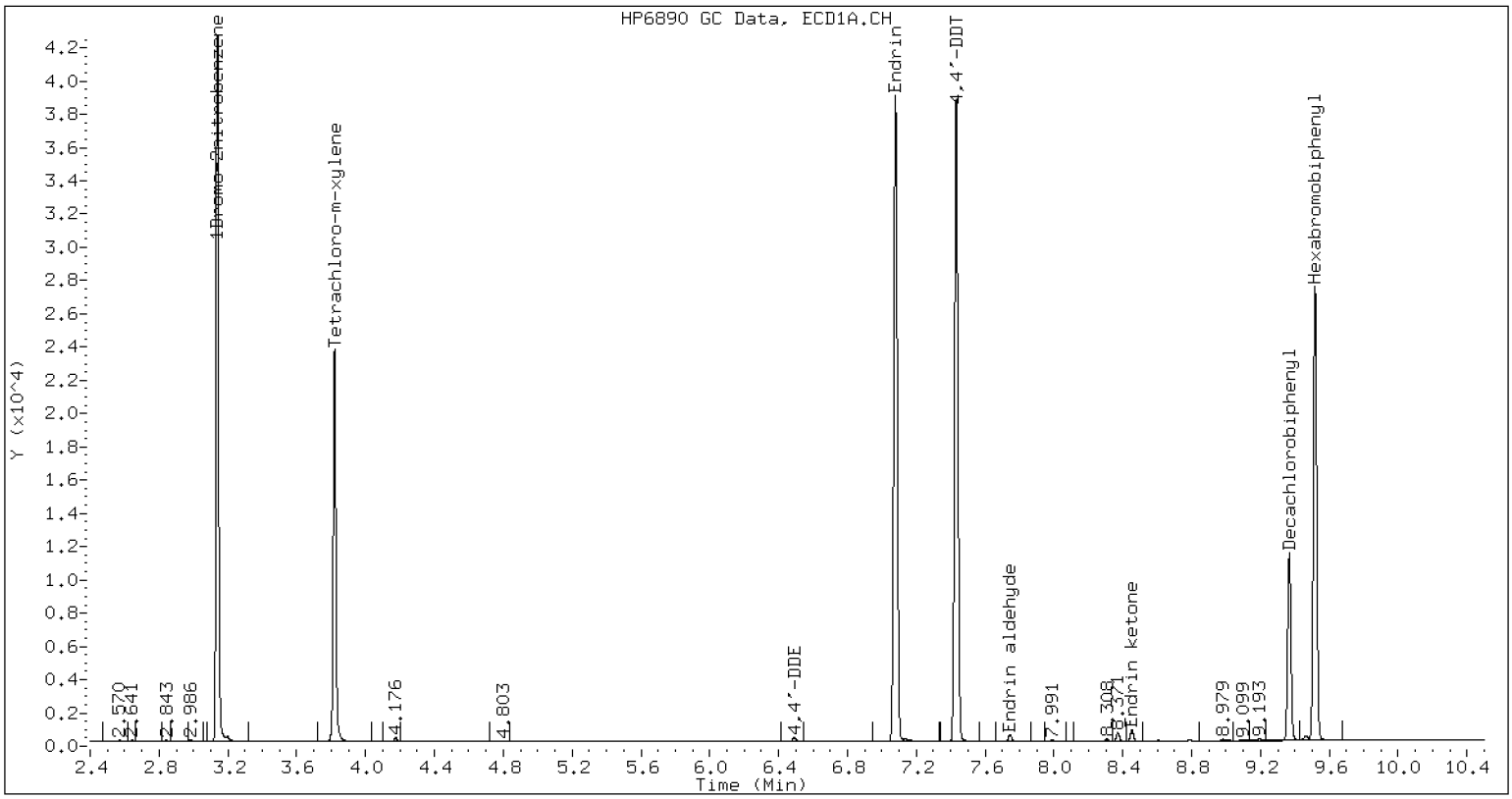
GC Column: STX-CLP2 ID: 0.53(mm)

COMPOUND	RT	AREA
1Bromo-2nitrobenzene [C]	3.288	1250764
4,4'-DDE [C]	7.257	9310
Endrin [C]	7.790	1308045
4,4'-DDD [C]	7.862	32953
4,4'-DDT [C]	8.181	1208253
Endrin ketone [C]	9.119	16410
Endrin aldehyde [C]	8.332	13846
Hexabromobiphenyl[C]	10.870	749199
Tetrachloro-m-xylene [C]	4.136	659084
Decachlorobiphenyl [C]	10.306	328819

DDT Percent Breakdown = 3.4 %
((9310+32953) * 100)/(9310+32953+1208253)

Endrin Percent Breakdown = 2.3 %
((13846+16410) * 100)/(13846+16410+1308045)

/20230412.b/23041203.D SEQ-PEM1 STX-CLP 12-APR-2023 15:16 1ul



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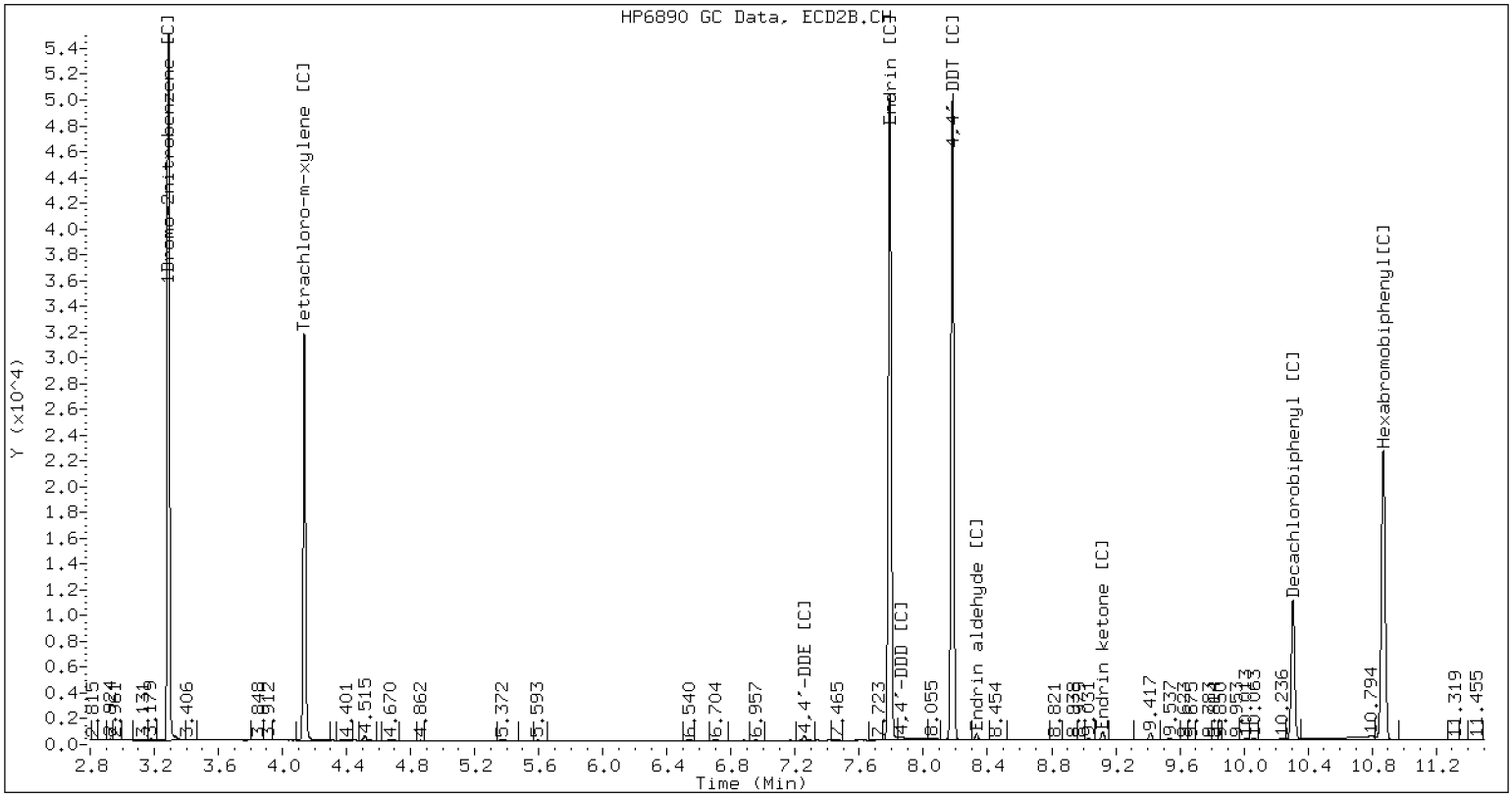

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041204.D
Data file 2: /20230412.b/B20230412.b/23041204.D
Method: \20230412.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL1
Client ID:
Injection Date: 12-APR-2023 15:34
Report Date: 04/13/2023 12:57
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.333	0.000	25454	4.761	-0.001	31321	1.26	1.20	4.3	alpha-BHC
4.718	0.000	11418	5.230	-0.000	14316	1.41	1.39	1.9	beta-BHC
4.902	0.000	23126	5.578	0.001	28503	1.26	1.23	2.4	delta-BHC
4.637	0.000	22577	5.152	-0.000	28360	1.27	1.24	2.3	gamma-BHC (Lindane)
5.125	0.000	22501	5.671	0.000	26325	1.37	1.31	4.0	Heptachlor
5.449	0.000	22140	6.070	-0.001	26734	1.32	1.28	2.9	Aldrin
6.127	0.000	25688	6.728	-0.001	29953	1.70	1.63	3.8	Heptachlor epoxide b
6.568	0.000	18534	7.172	0.000	20834	1.37	1.33	3.0	Endosulfan I
6.828	0.000	39009	7.466	0.000	45935	2.73	2.68	1.8	Dieldrin
6.491	0.000	35948	7.257	-0.000	43002	2.67	2.64	1.2	4,4'-DDE
7.079	0.000	36220	7.789	-0.001	40635	2.85	2.76	3.0	Endrin
7.315	0.000	33958	8.001	-0.000	38270	2.85	2.76	3.4	Endosulfan II
7.138	0.000	31178	7.862	0.000	36046	2.73	2.68	1.8	4,4'-DDD
8.178	0.000	31912	8.598	0.000	35527	2.84	2.78	2.3	Endosulfan sulfate
7.431	0.000	33616	8.180	-0.001	36533	2.74	2.70	1.5	4,4'-DDT
7.920	0.000	81474	8.820	-0.002	86256	15.48	14.84	4.2	Methoxychlor
8.453	0.000	39092	9.119	0.000	40044	3.05	2.87	6.2	Endrin ketone
7.744	0.000	26296	8.331	0.000	28602	2.89	2.85	1.6	Endrin aldehyde
6.267	0.000	19601	6.939	0.000	22872	1.32	1.30	1.7	trans-Chlordane
6.414	0.000	19995	7.099	-0.001	22897	1.35	1.32	1.7	cis-Chlordane
2.308	0.000	29917	2.452	-0.001	32224	1.43	1.36	4.8	Hexachlorobutadiene
4.175	0.000	25512	4.622	0.000	31379	1.42	1.38	3.0	Hexachlorobenzene
3.819	0.000	36352	4.136	-0.000	46406	2.80	2.75	1.9	Tetrachloro-m-xylene
9.367	0.000	28105	10.307	0.000	25352	3.24	2.88	11.9	Decachlorobiphenyl N

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	926418	7.2
Hexabromobiphenyl	663237	735580	10.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1226303	-17.2
Hexabromobiphenyl	870561	730241	-16.1

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

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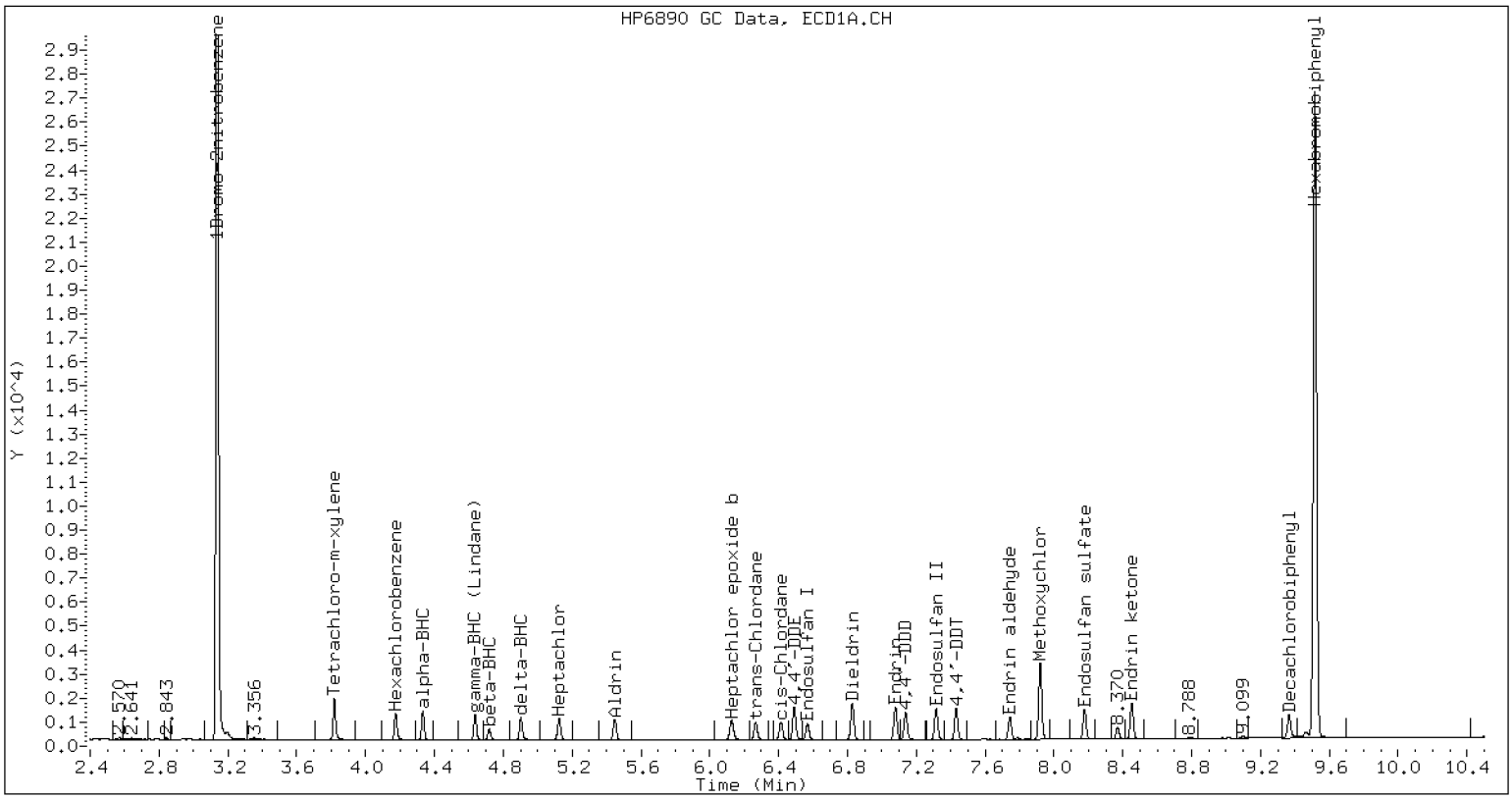

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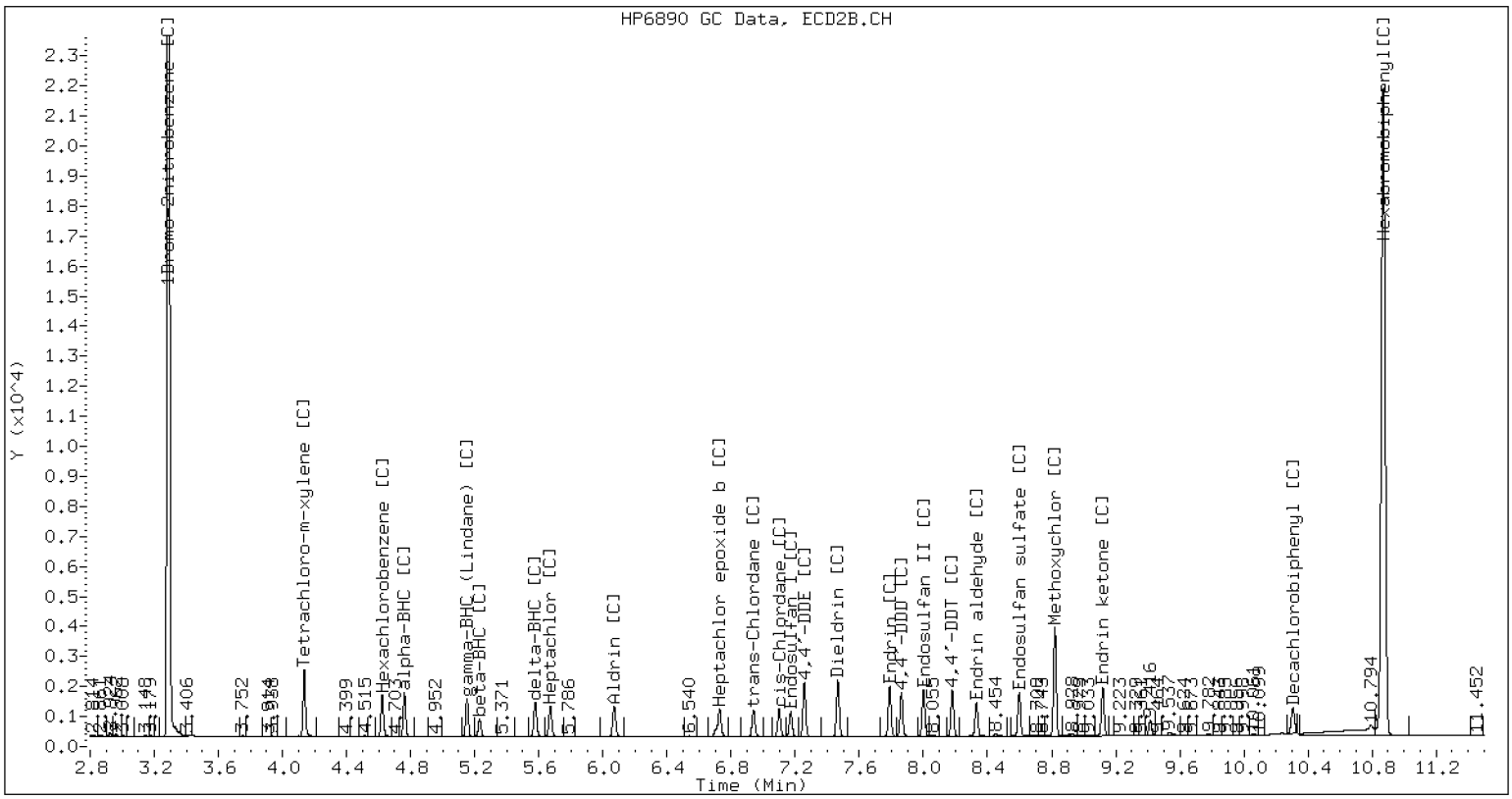
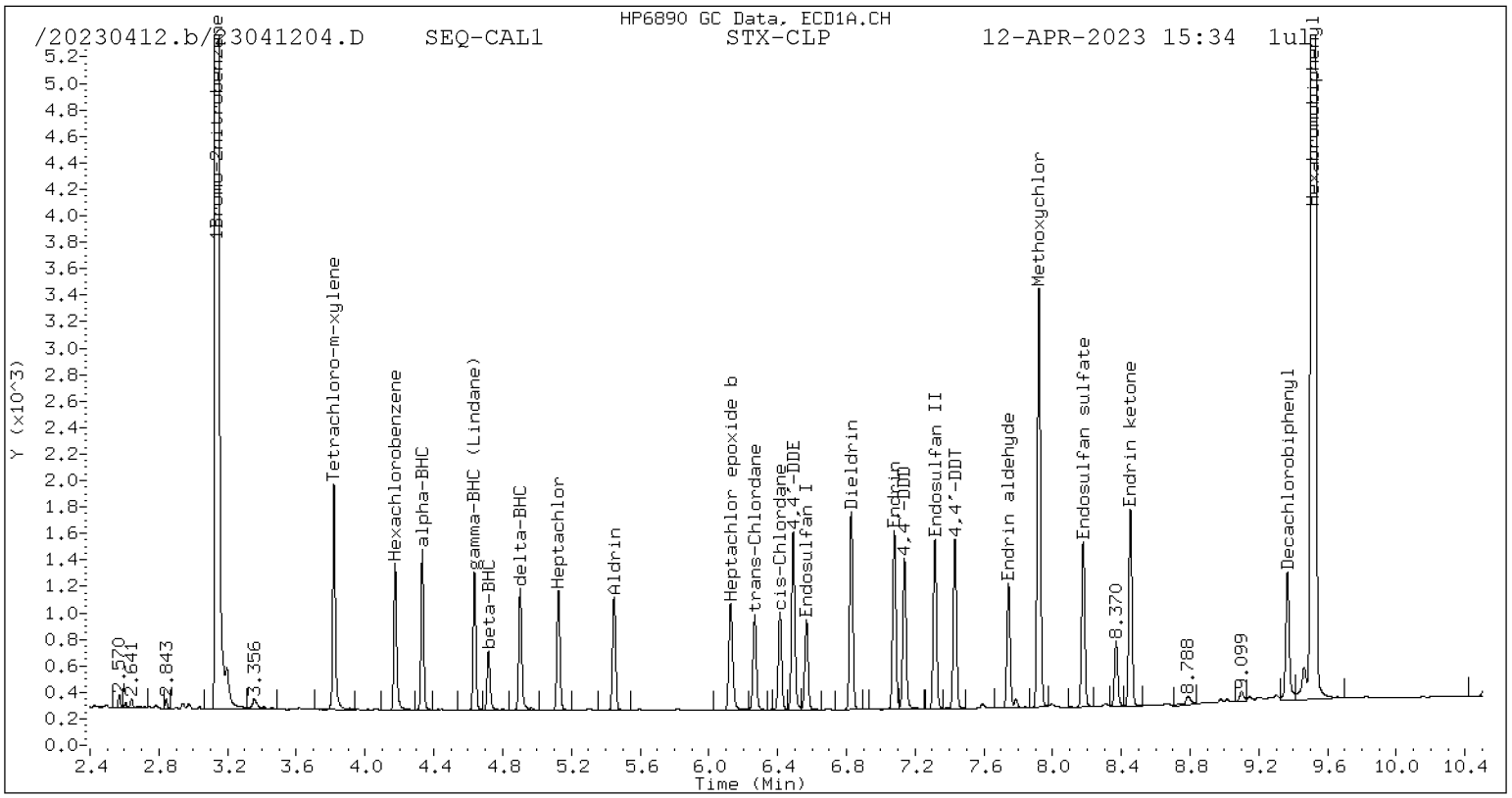


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

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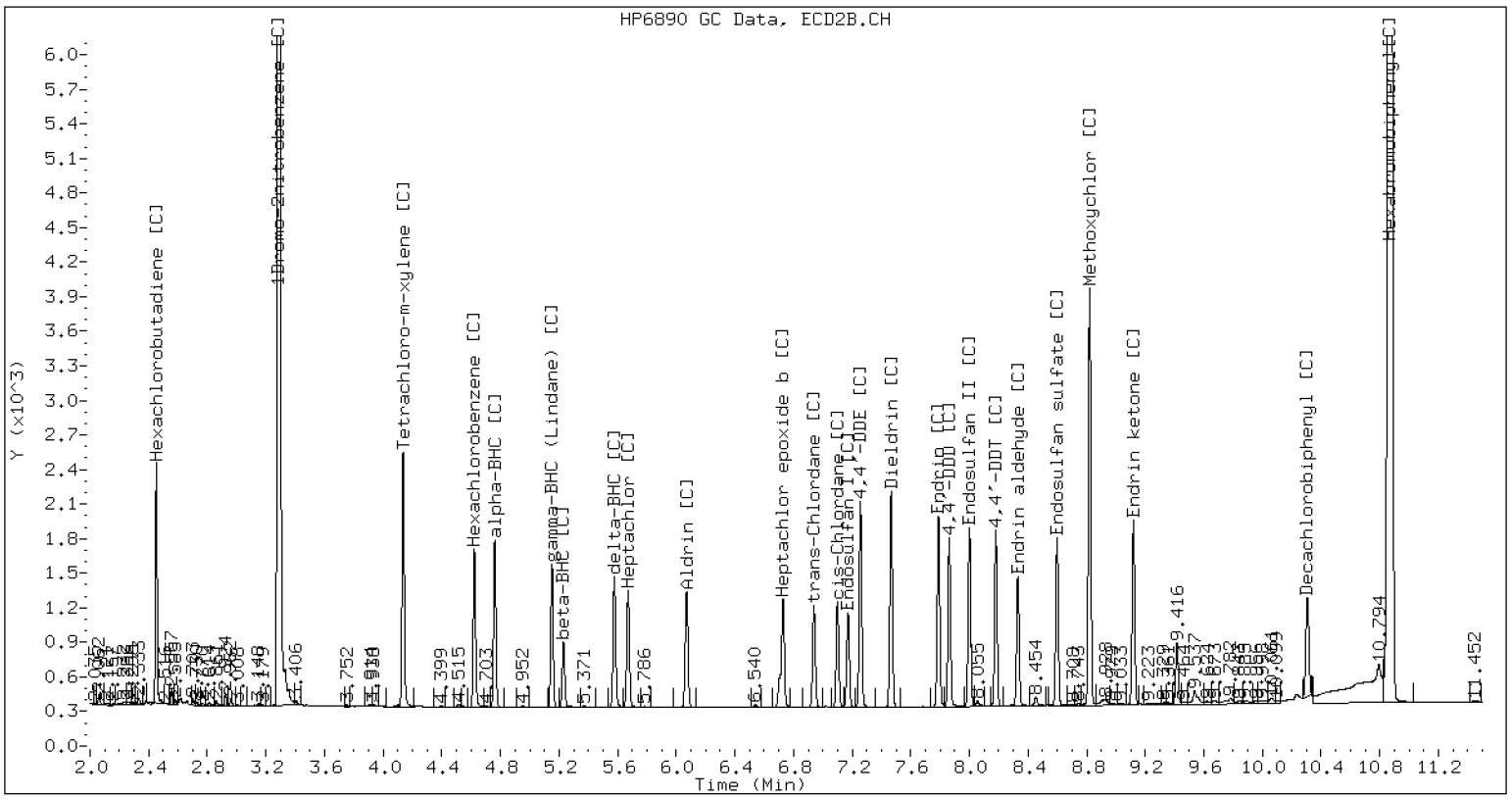
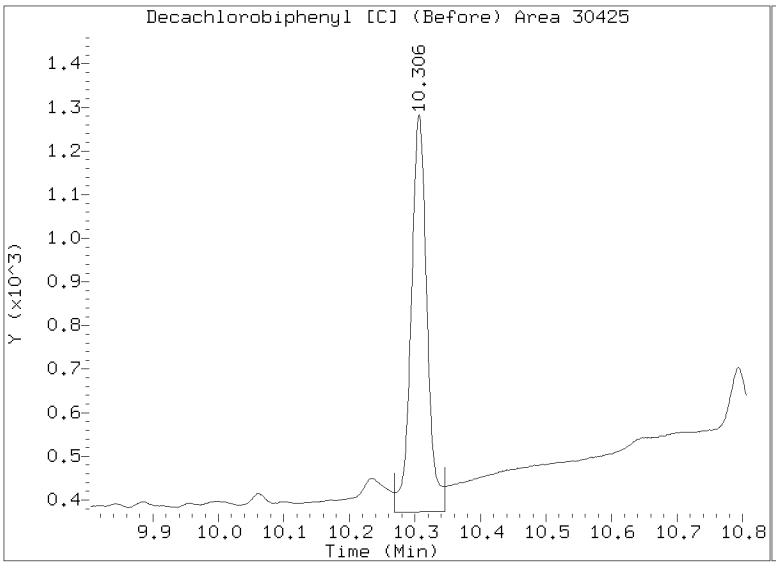
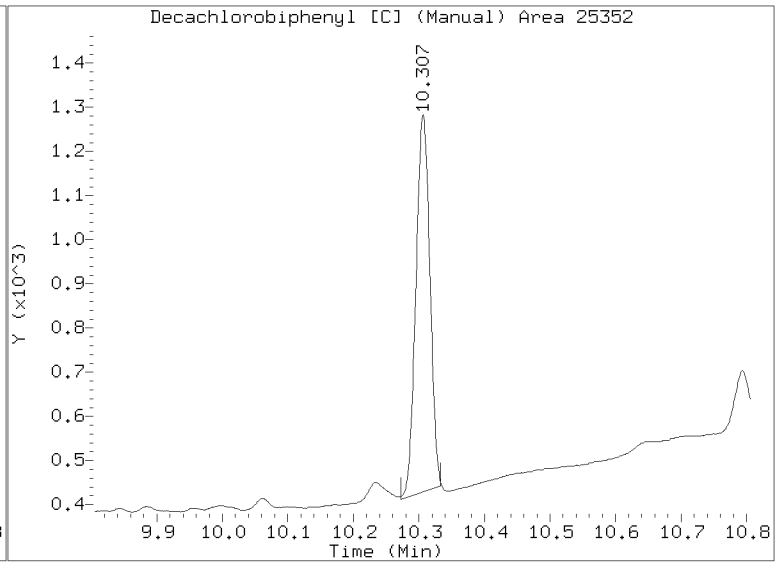


CLP-2 Manual Integration: YES

Manual Peak Adjustment Report, CLP-2

Datafile: /20230412.b/B20230412.b/23041204.D
Injection Date: 12-APR-2023 15:34
Lab ID:SEQ-CAL1 Client ID:





Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041205.D
Data file 2: /20230412.b/B20230412.b/23041205.D
Method: \20230412.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL2
Client ID:
Injection Date: 12-APR-2023 15:53
Report Date: 04/13/2023 12:57
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.334	0.000	51739	4.762	-0.000	64823	2.56	2.47	3.6	alpha-BHC
4.718	-0.000	21843	5.230	-0.000	27256	2.71	2.62	3.4	beta-BHC
4.902	-0.001	46946	5.577	0.000	57832	2.57	2.48	3.6	delta-BHC
4.637	0.000	45705	5.152	-0.000	57426	2.58	2.49	3.3	gamma-BHC (Lindane)
5.125	0.000	44188	5.671	0.000	52255	2.69	2.59	4.0	Heptachlor
5.449	-0.000	43869	6.070	-0.001	53342	2.63	2.54	3.2	Aldrin
6.125	-0.002	39080	6.728	-0.001	46435	2.59	2.51	3.0	Heptachlor epoxide b
6.567	-0.001	36118	7.172	0.000	40864	2.69	2.60	3.4	Endosulfan I
6.828	-0.000	77704	7.466	0.000	91522	5.46	5.31	2.9	Dieldrin
6.490	-0.001	72097	7.257	0.000	86610	5.38	5.28	1.9	4,4'-DDE
7.079	-0.000	69966	7.790	-0.000	80652	5.47	5.42	1.0	Endrin
7.315	-0.000	66247	8.000	-0.001	75311	5.53	5.36	3.2	Endosulfan II
7.138	-0.000	61419	7.862	-0.000	71635	5.35	5.26	1.6	4,4'-DDD
8.178	0.000	62622	8.598	0.000	69135	5.55	5.34	3.8	Endosulfan sulfate
7.431	-0.000	66302	8.180	-0.001	72001	5.36	5.24	2.2	4,4'-DDT
7.920	-0.000	151246	8.821	-0.001	162884	28.55	27.67	3.1	Methoxychlor
8.453	0.000	72870	9.119	0.000	77298	5.65	5.47	3.4	Endrin ketone
7.743	-0.000	50010	8.331	0.000	54680	5.47	5.38	1.7	Endrin aldehyde
6.267	-0.000	38399	6.940	0.001	44910	2.60	2.54	2.6	trans-Chlordane
6.414	0.000	39092	7.100	-0.000	44798	2.64	2.57	2.7	cis-Chlordane
2.308	0.000	57293	2.452	-0.001	61436	2.75	2.58	6.4	Hexachlorobutadiene
4.175	-0.000	48764	4.622	0.000	61087	2.73	2.67	2.3	Hexachlorobenzene
3.820	0.000	70858	4.136	0.000	91748	5.48	5.40	1.6	Tetrachloro-m-xylene
9.367	-0.000	52201	10.306	-0.000	49425	5.98	5.54	7.7	Decachlorobiphenyl N

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	923378	6.8
Hexabromobiphenyl	663237	740194	11.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1235705	-16.6
Hexabromobiphenyl	870561	739625	-15.0

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

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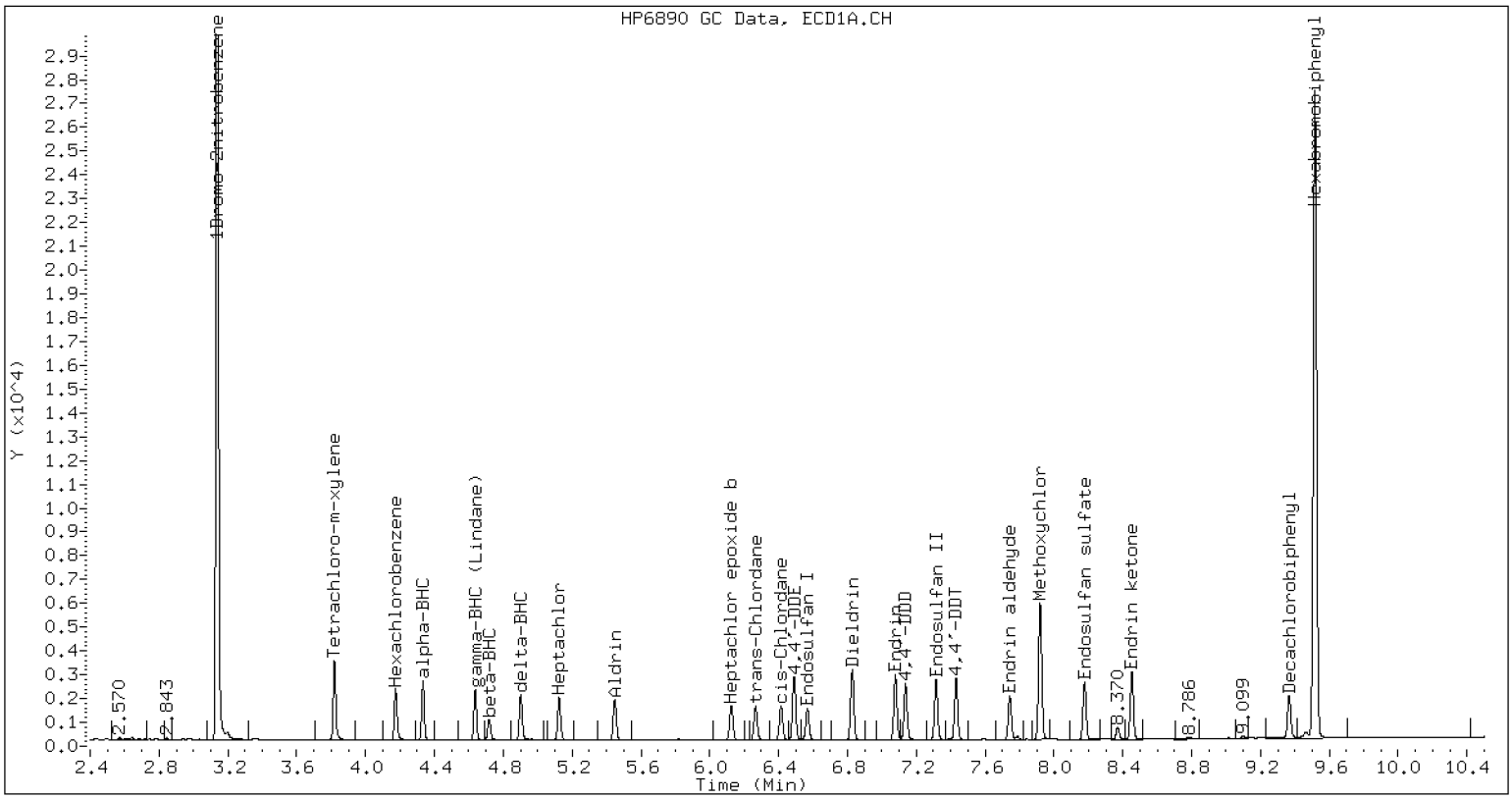

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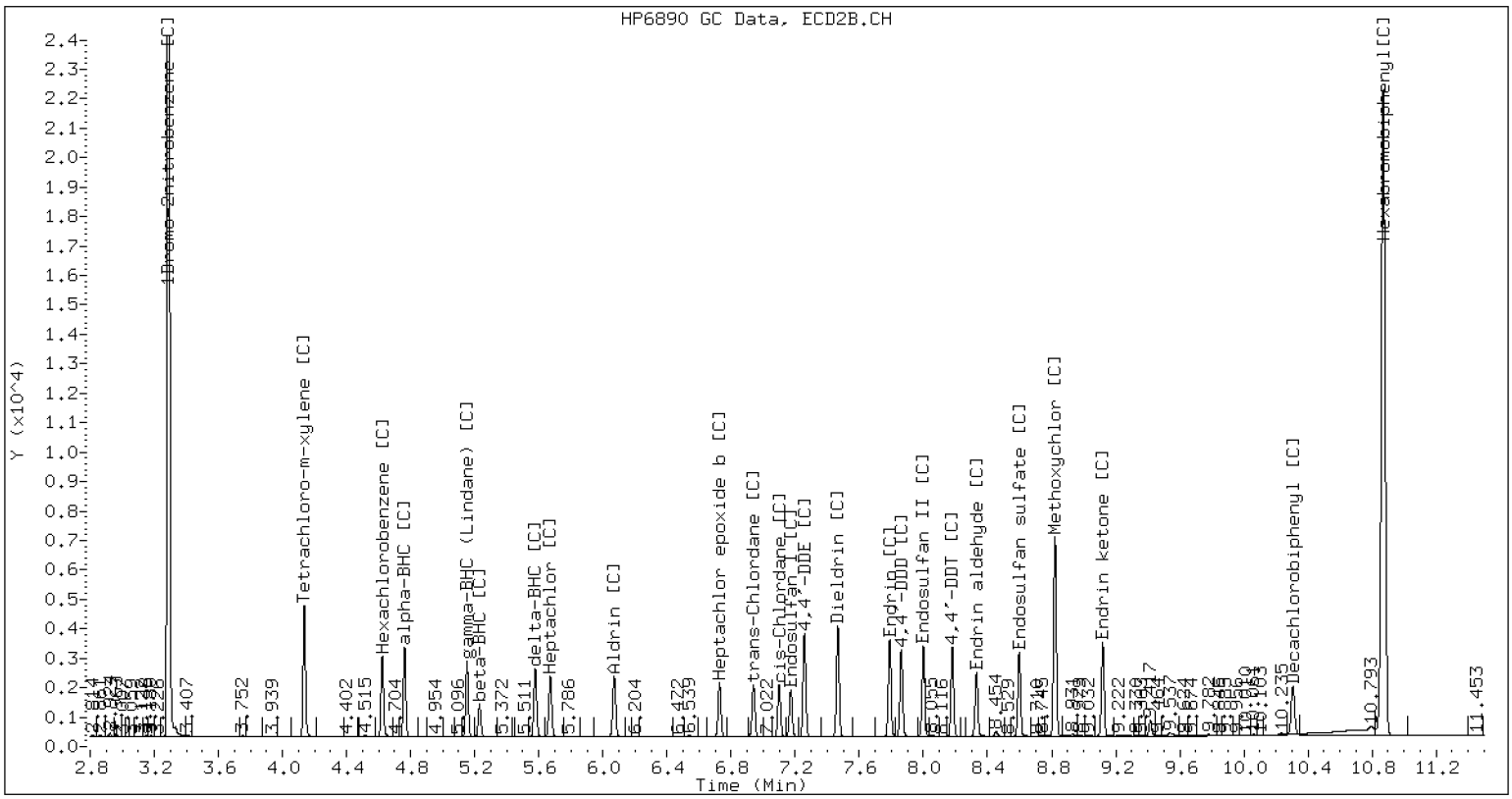
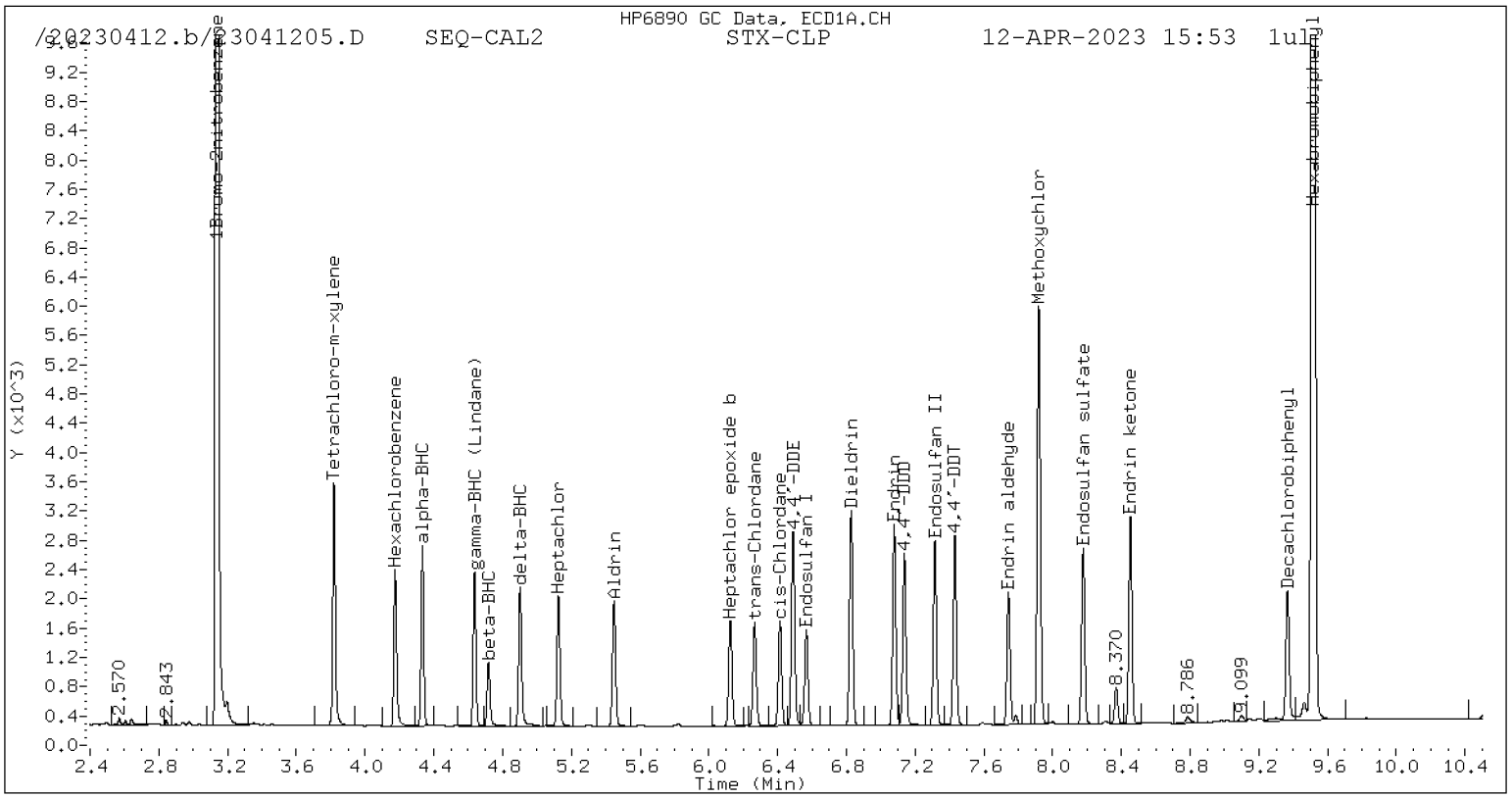


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

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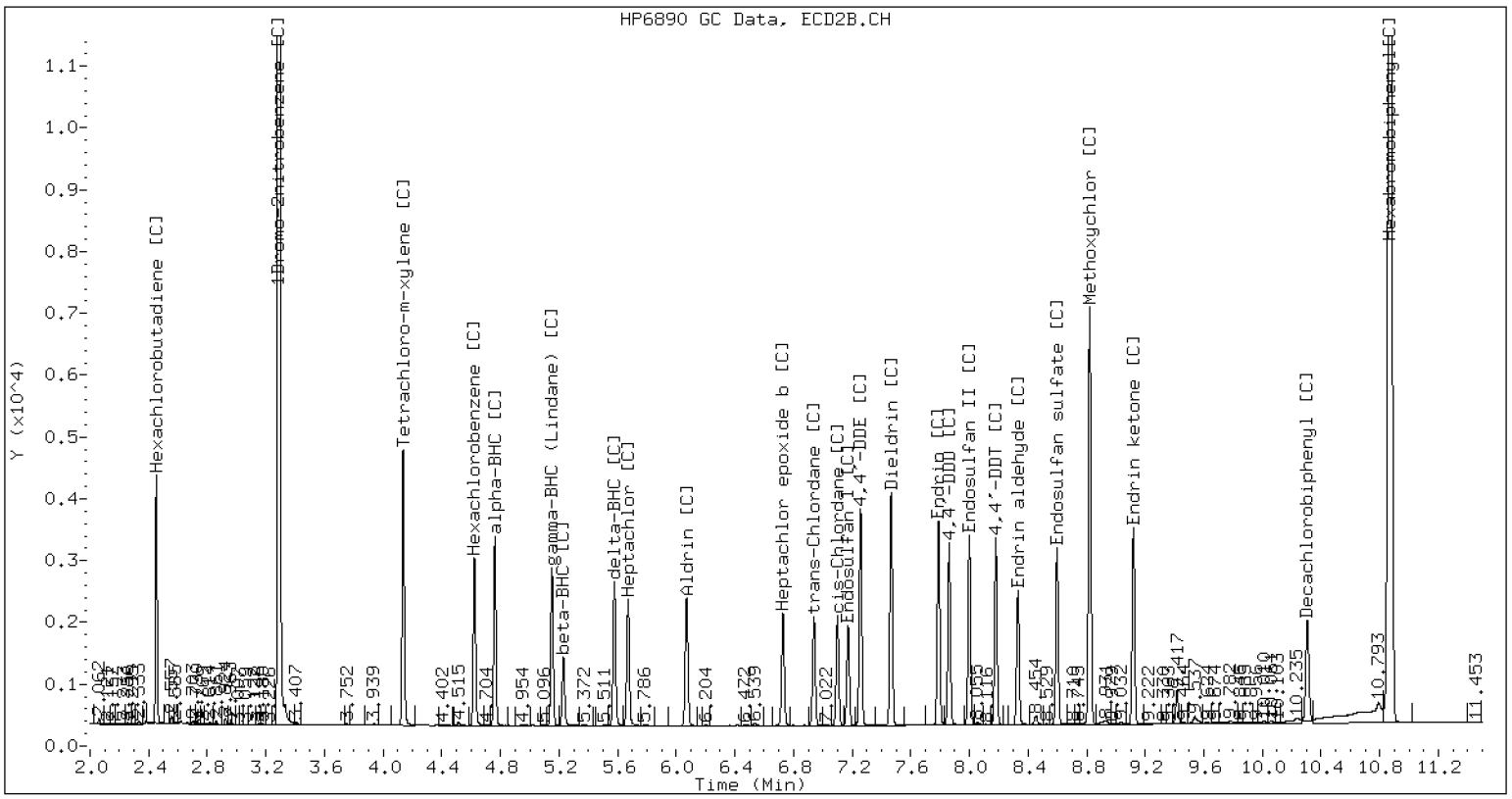

CLP-2 Manual Integration: YES

Manual Peak Adjustment Report, CLP-2

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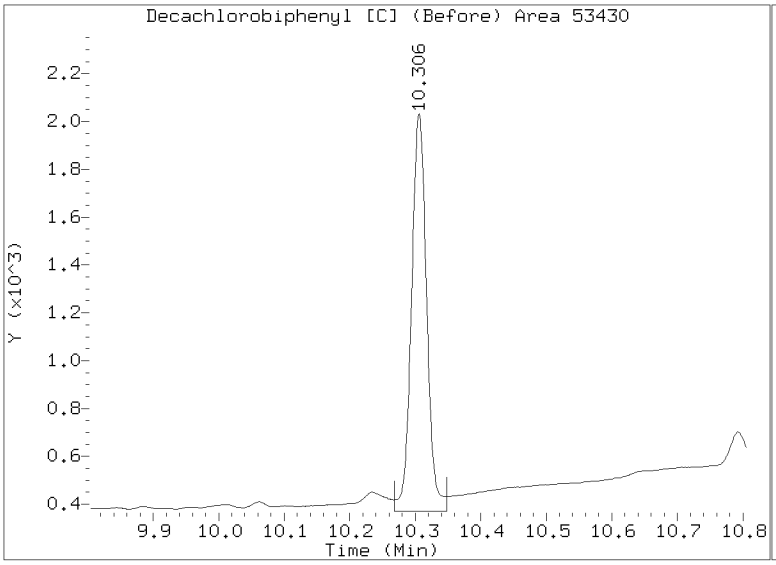
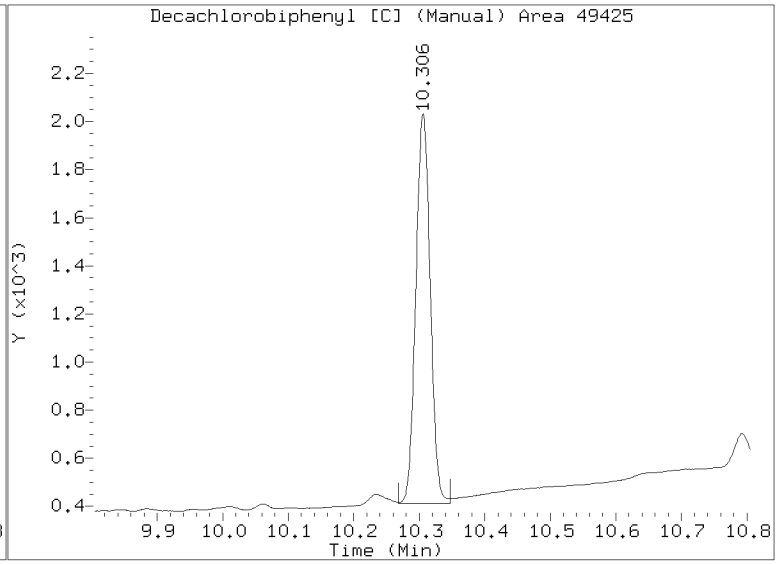
Injection Date: 12-APR-2023 15:53
Lab ID:SEQ-CAL2 Client ID:





Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041206.D
Data file 2: /20230412.b/B20230412.b/23041206.D
Method: \20230412.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL3
Client ID:
Injection Date: 12-APR-2023 16:11
Report Date: 04/13/2023 12:57
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.333	0.000	103568	4.761	-0.001	131810	5.11	5.04	1.4	alpha-BHC
4.717	-0.001	41447	5.229	-0.001	52711	5.12	5.07	0.9	beta-BHC
4.902	-0.001	94116	5.576	-0.001	117489	5.13	5.05	1.6	delta-BHC
4.637	0.000	91660	5.151	-0.001	116367	5.15	5.06	1.7	gamma-BHC (Lindane)
5.125	-0.000	86721	5.670	-0.001	104305	5.26	5.17	1.7	Heptachlor
5.449	-0.000	87528	6.070	-0.001	107537	5.22	5.14	1.6	Aldrin
6.125	-0.002	76614	6.728	-0.001	91643	5.06	4.97	1.8	Heptachlor epoxide b
6.567	-0.001	70757	7.171	-0.001	81121	5.24	5.17	1.5	Endosulfan I
6.828	-0.000	151176	7.465	-0.001	180300	10.59	10.48	1.1	Dieldrin
6.489	-0.001	141708	7.257	-0.000	172687	10.53	10.54	0.1	4,4'-DDE
7.078	-0.001	135408	7.789	-0.001	157942	10.52	10.45	0.6	Endrin
7.315	-0.001	127172	8.000	-0.001	147360	10.55	10.32	2.2	Endosulfan II
7.137	-0.001	120482	7.862	-0.000	141192	10.43	10.22	2.0	4,4'-DDD
8.177	-0.001	119181	8.597	-0.001	134570	10.49	10.24	2.4	Endosulfan sulfate
7.431	-0.001	129376	8.180	-0.001	142078	10.40	10.20	2.0	4,4'-DDT
7.919	-0.001	279773	8.820	-0.002	309068	52.48	51.73	1.4	Methoxychlor
8.452	-0.000	133639	9.119	-0.000	147115	10.31	10.25	0.5	Endrin ketone
7.743	-0.001	96868	8.330	-0.001	105906	10.53	10.26	2.6	Endrin aldehyde
6.267	-0.000	76161	6.939	-0.000	89682	5.14	5.08	1.3	trans-Chlordane
6.414	-0.000	76892	7.099	-0.001	88748	5.17	5.10	1.4	cis-Chlordane
2.308	0.000	106908	2.452	-0.001	123867	5.11	5.22	2.0	Hexachlorobutadiene
4.175	-0.000	93098	4.622	-0.000	118070	5.19	5.17	0.4	Hexachlorobenzene
3.819	-0.000	137014	4.136	-0.000	179204	10.57	10.57	0.0	Tetrachloro-m-xylene
9.366	-0.001	90951	10.305	-0.001	96814	10.35	10.68	3.2	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

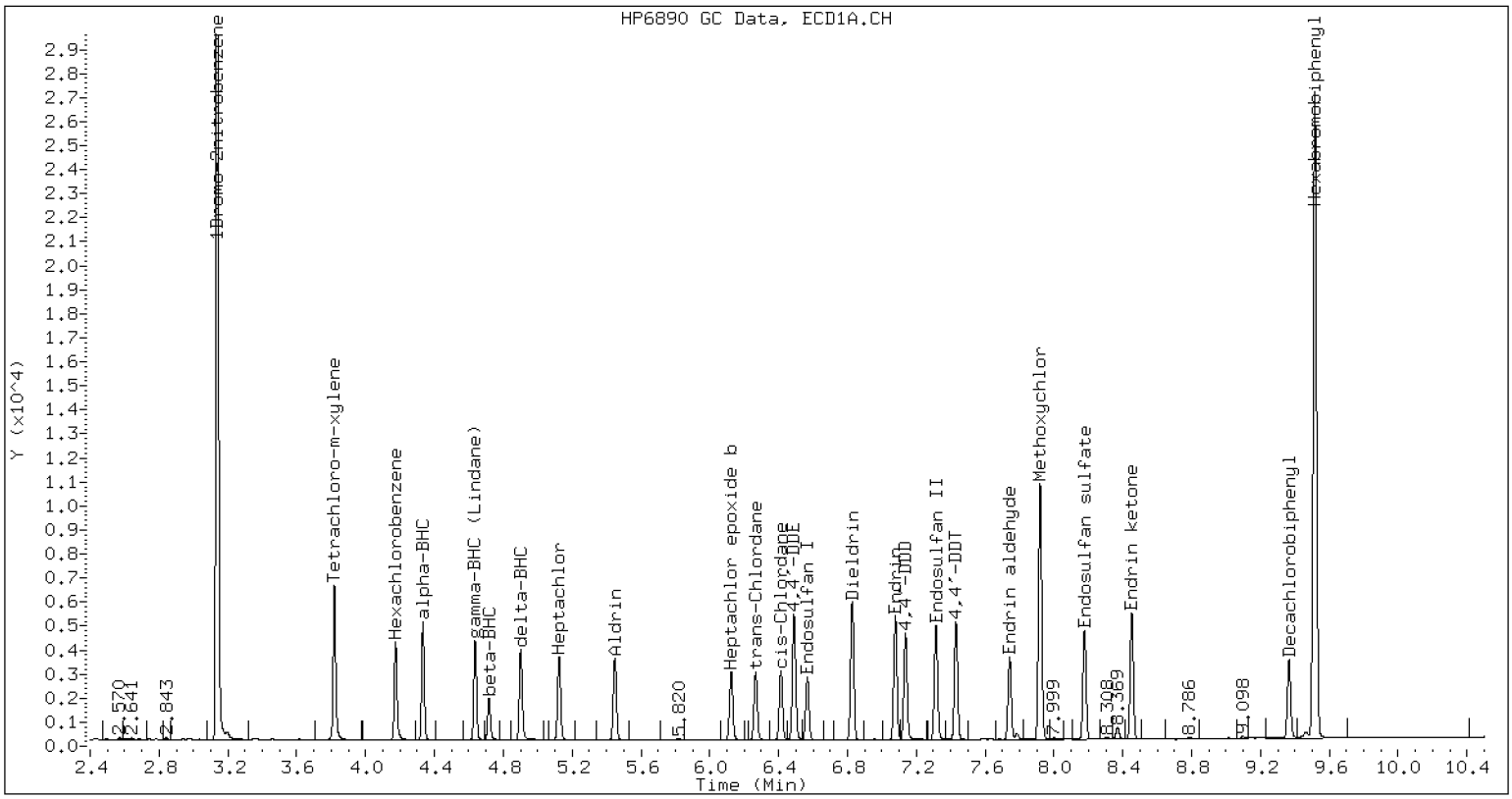
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	926824	7.2
Hexabromobiphenyl	663237	744867	12.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1232907	-16.7
Hexabromobiphenyl	870561	750687	-13.8

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

/20230412.b/23041206.D SEQ-CAL3 STX-CLP 12-APR-2023 16:11 1ul



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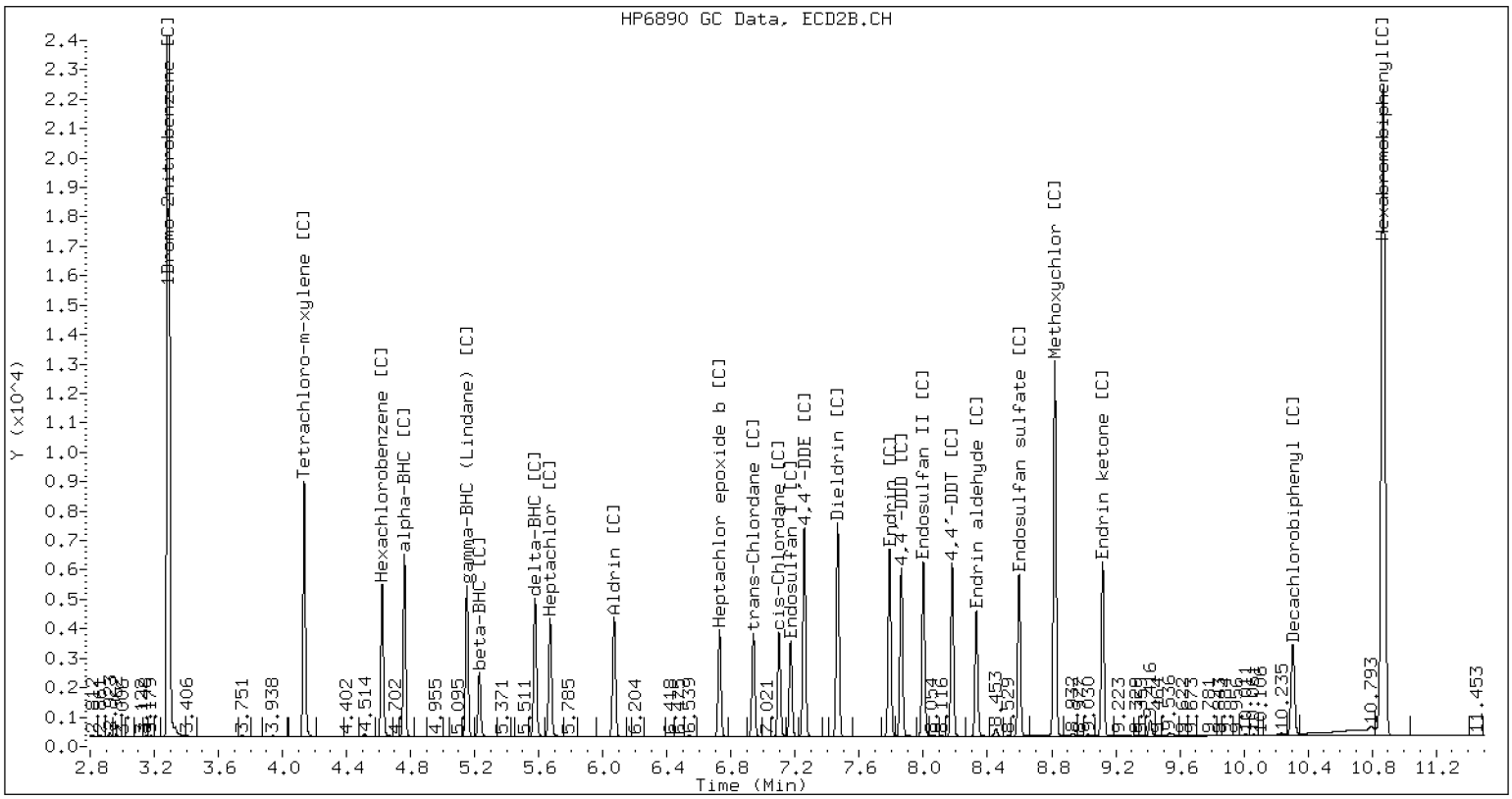
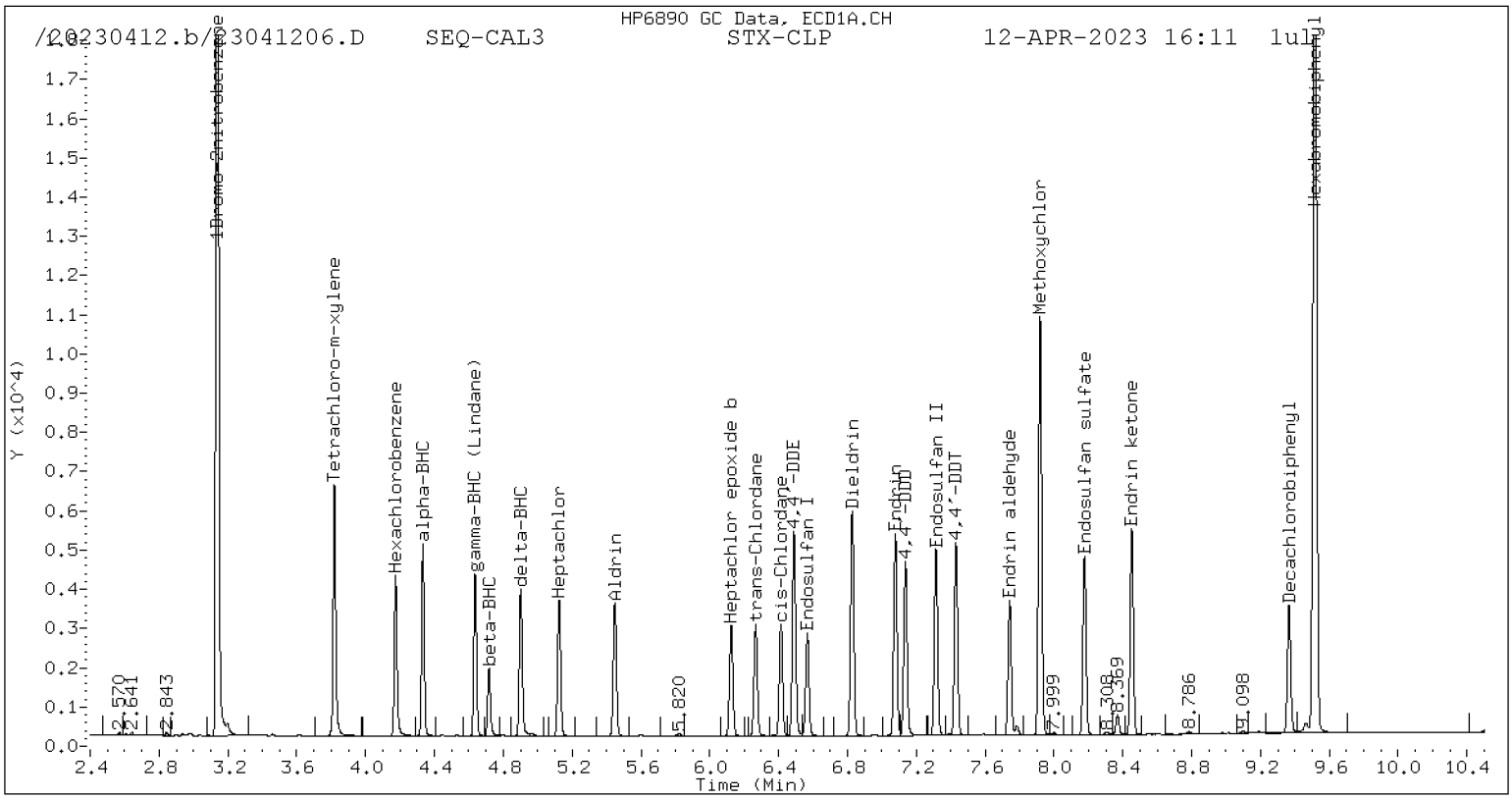
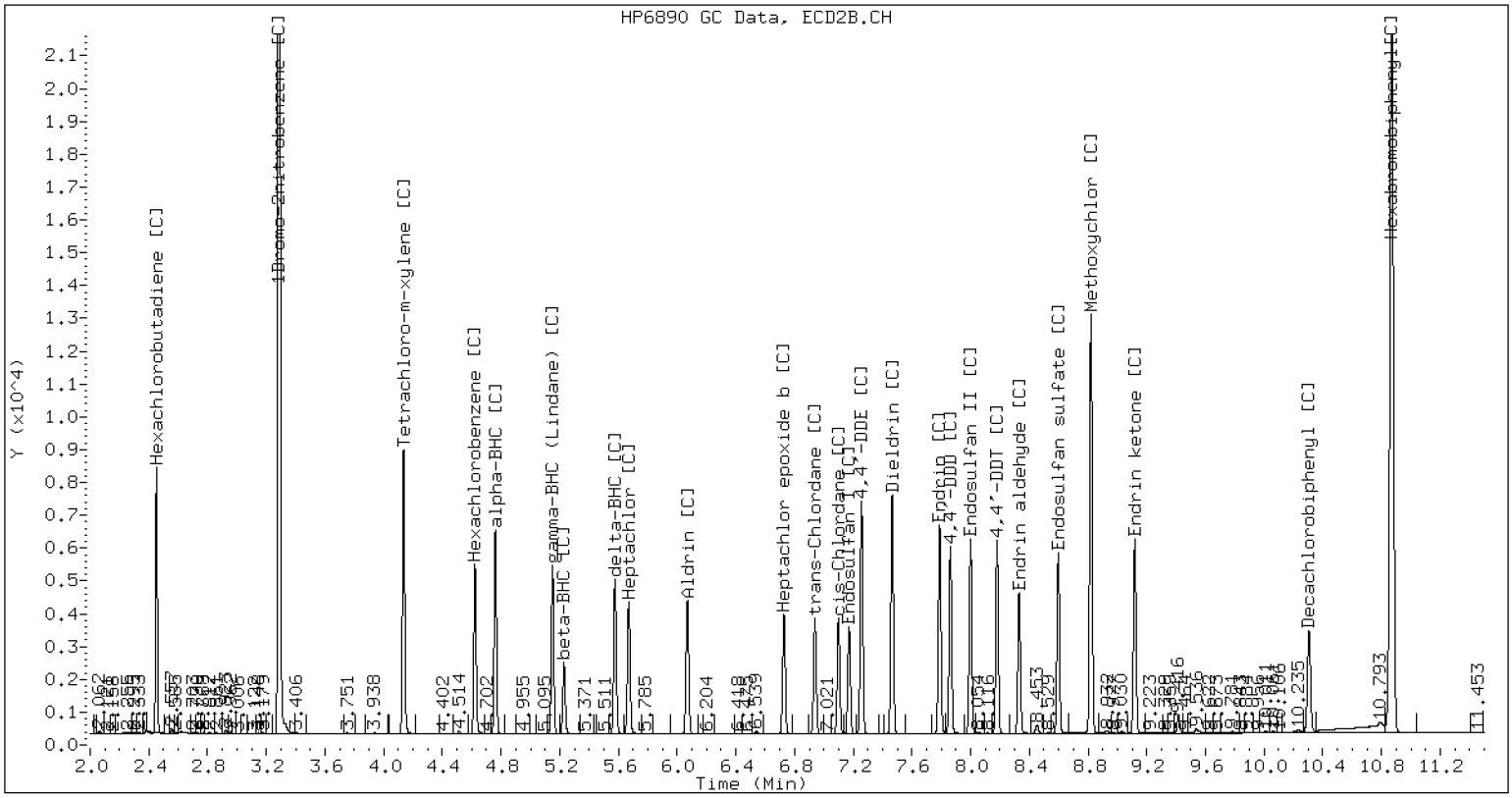


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041206.D SEQ-CAL3 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041207.D
Data file 2: /20230412.b/B20230412.b/23041207.D
Method: \20230412.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL5
Client ID:
Injection Date: 12-APR-2023 16:30
Report Date: 04/13/2023 12:57
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.334	0.001	407241	4.762	0.000	536848	19.97	20.27	1.5	alpha-BHC
4.717	-0.001	155730	5.230	-0.000	202325	19.12	19.23	0.6	beta-BHC
4.902	-0.001	370506	5.577	-0.000	476223	20.06	20.20	0.7	delta-BHC
4.637	0.000	356610	5.152	-0.000	467736	19.90	20.08	0.9	gamma-BHC (Lindane)
5.125	0.000	322878	5.671	-0.000	404806	19.46	19.82	1.8	Heptachlor
5.449	0.000	332937	6.070	-0.001	424935	19.73	20.04	1.6	Aldrin
6.125	-0.002	282261	6.728	-0.001	351893	18.53	18.86	1.7	Heptachlor epoxide b
6.568	-0.000	264288	7.172	-0.000	313117	19.47	19.69	1.2	Endosulfan I
6.828	0.000	556831	7.466	-0.000	679897	38.75	39.01	0.7	Dieldrin
6.490	-0.001	530626	7.257	-0.000	653476	39.17	39.39	0.6	4,4'-DDE
7.078	-0.000	494177	7.790	-0.000	590171	38.36	38.86	1.3	Endrin
7.315	-0.001	458674	8.000	-0.001	555378	38.02	38.71	1.8	Endosulfan II
7.137	-0.001	450400	7.862	0.000	544668	38.95	39.23	0.7	4,4'-DDD
8.177	-0.001	429746	8.598	-0.000	510603	37.79	38.65	2.3	Endosulfan sulfate
7.431	-0.000	481860	8.180	-0.001	546653	38.69	39.02	0.8	4,4'-DDT
7.920	-0.001	955187	8.821	-0.001	1096057	179.04	182.48	1.9	Methoxychlor
8.452	-0.000	476313	9.119	-0.000	546190	36.70	37.86	3.1	Endrin ketone
7.743	-0.000	347507	8.331	0.000	397001	37.75	38.27	1.4	Endrin aldehyde
6.267	-0.000	293273	6.939	0.000	355259	19.68	19.85	0.9	trans-Chlordane
6.413	-0.001	292054	7.099	-0.001	346293	19.52	19.65	0.7	cis-Chlordane
2.309	0.001	397872	2.452	-0.001	467299	18.91	19.43	2.7	Hexachlorobutadiene
4.175	0.000	342355	4.623	0.001	445526	18.97	19.26	1.5	Hexachlorobenzene
3.819	0.000	499517	4.136	0.000	663494	38.27	38.64	1.0	Tetrachloro-m-xylene
9.366	-0.001	308287	10.305	-0.001	336318	35.06	36.92	5.2	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

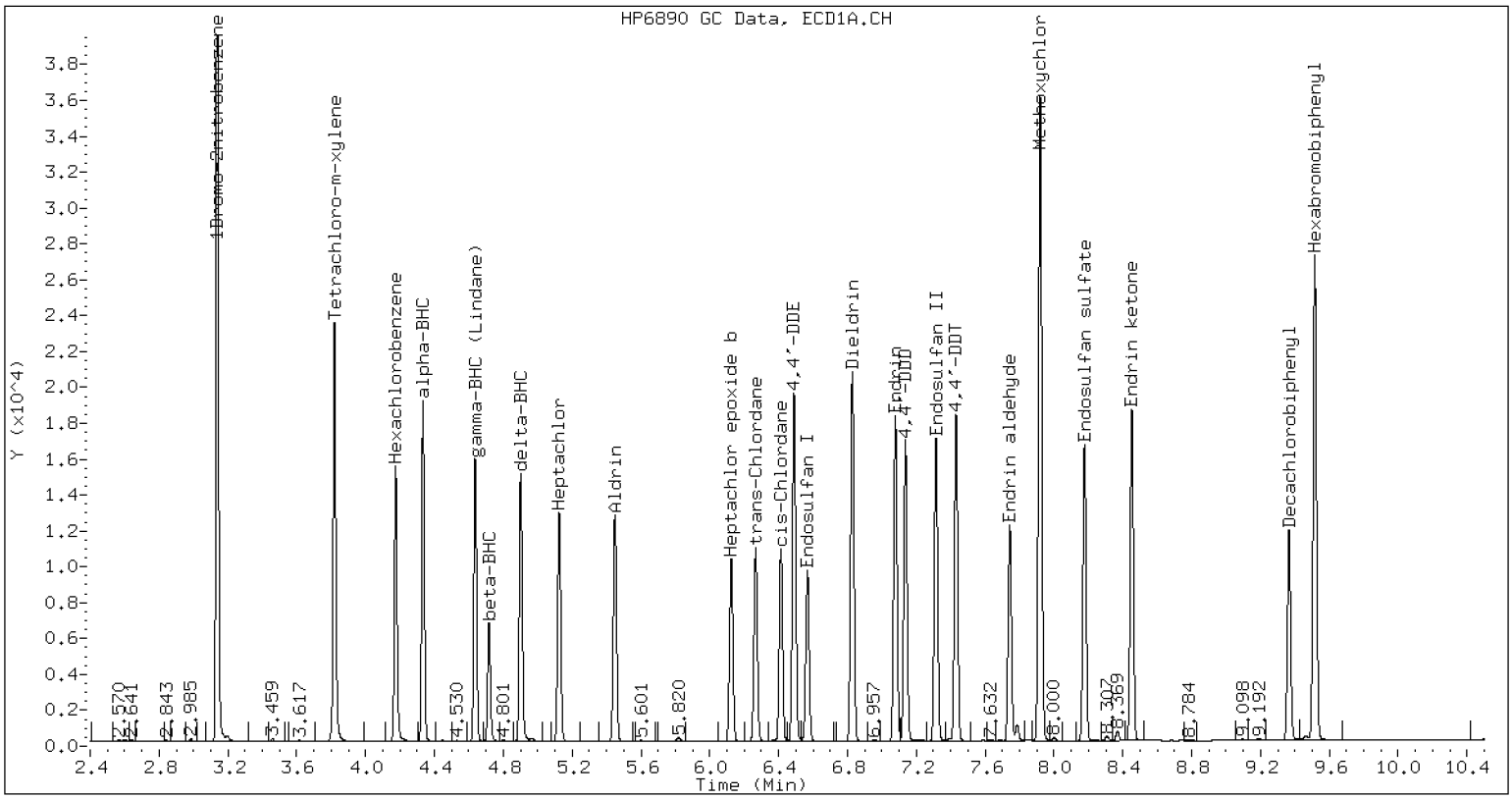
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	932757	7.9
Hexabromobiphenyl	663237	745426	12.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1248665	-15.7
Hexabromobiphenyl	870561	754634	-13.3

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

/20230412.b/23041207.D SEQ-CAL5 STX-CLP 12-APR-2023 16:30 1ul



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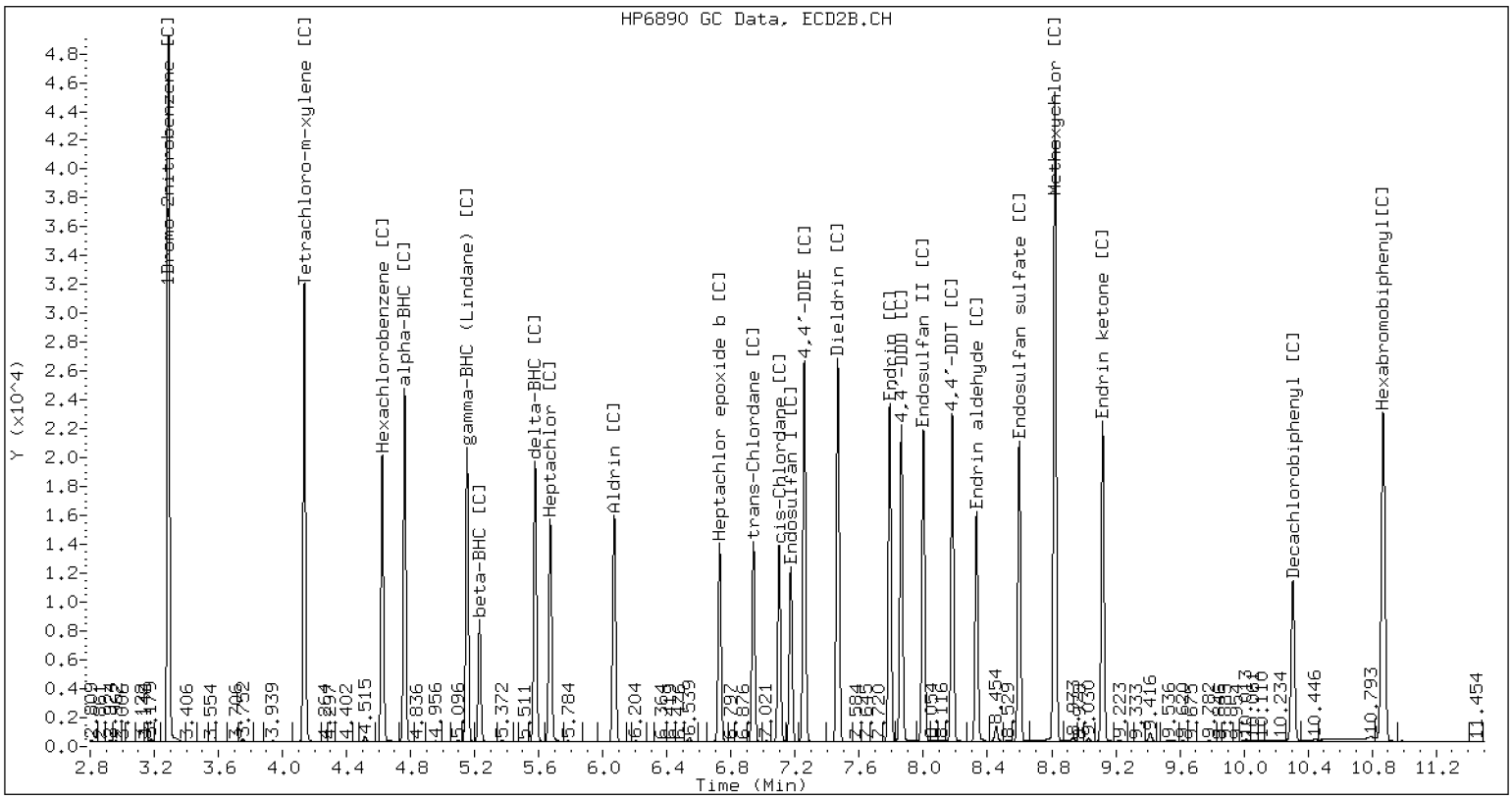
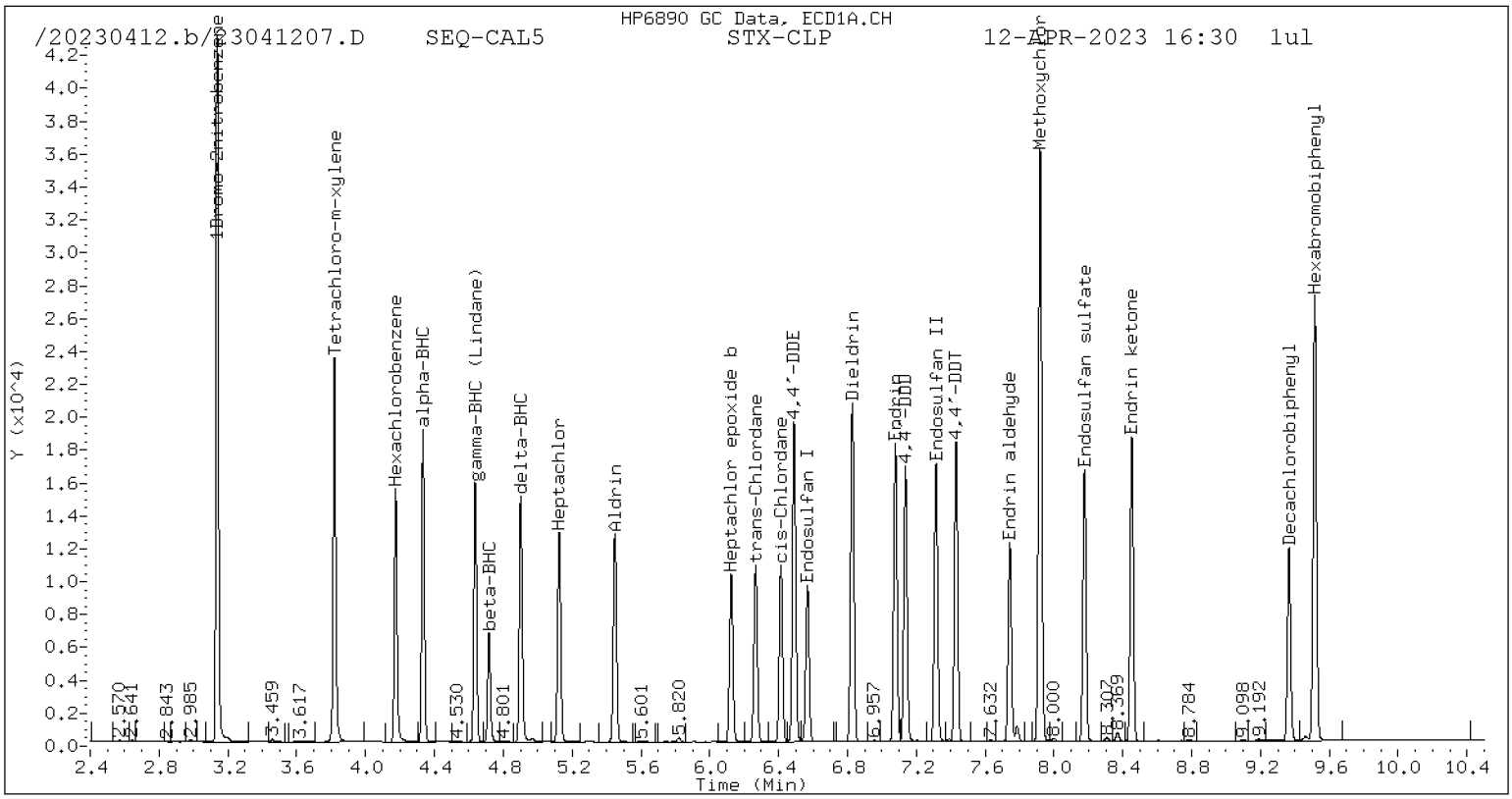
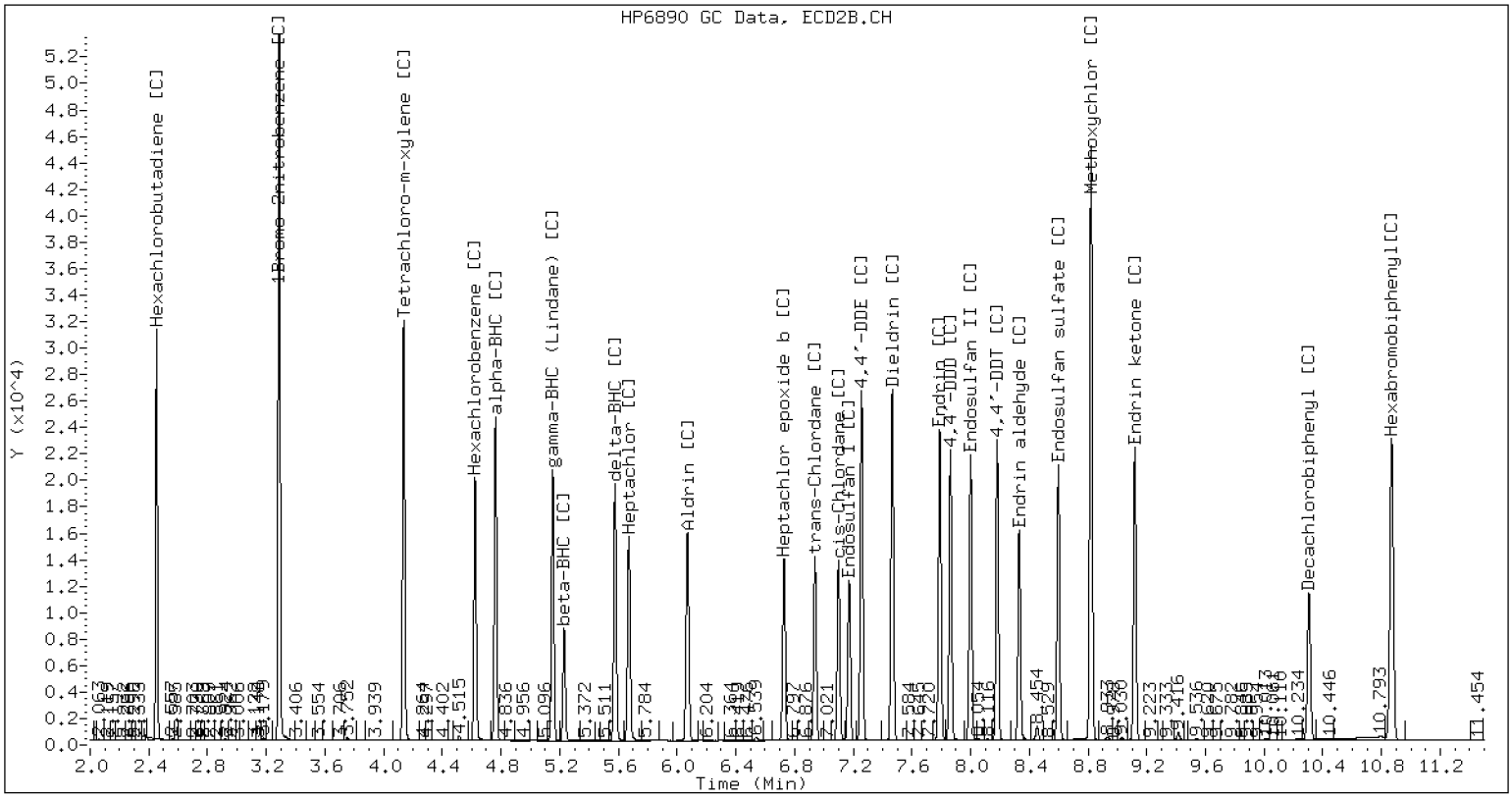


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041207.D SEQ-CAL5 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041208.D
Data file 2: /20230412.b/B20230412.b/23041208.D
Method: \20230412.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL4
Client ID:
Injection Date: 12-APR-2023 16:48
Report Date: 04/13/2023 12:57
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.333	0.000	207054	4.762	-0.000	269032	10.40	10.44	0.4	alpha-BHC
4.717	-0.001	79800	5.230	-0.000	103870	10.04	10.15	1.1	beta-BHC
4.901	-0.001	188049	5.577	0.000	239720	10.44	10.45	0.1	delta-BHC
4.637	0.000	181860	5.152	-0.000	236414	10.40	10.44	0.4	gamma-BHC (Lindane)
5.125	0.000	168797	5.672	0.001	208664	10.43	10.50	0.7	Heptachlor
5.449	0.000	172339	6.070	-0.001	216770	10.47	10.51	0.4	Aldrin
6.125	-0.002	148413	6.728	-0.001	182002	9.99	10.03	0.4	Heptachlor epoxide b
6.567	-0.001	138415	7.172	0.000	161209	10.45	10.42	0.2	Endosulfan I
6.828	-0.000	293866	7.466	0.000	354543	20.96	20.91	0.2	Dieldrin
6.490	-0.001	276898	7.257	0.000	342356	20.95	21.22	1.3	4,4'-DDE
7.078	-0.001	260570	7.789	-0.001	308995	20.59	20.68	0.4	Endrin
7.314	-0.001	243933	8.000	-0.001	290249	20.59	20.57	0.1	Endosulfan II
7.137	-0.001	235887	7.862	0.000	281171	20.77	20.59	0.9	4,4'-DDD
8.178	-0.000	228340	8.598	-0.000	264823	20.44	20.38	0.3	Endosulfan sulfate
7.431	-0.001	252435	8.181	-0.000	282707	20.64	20.52	0.6	4,4'-DDT
7.920	-0.000	515694	8.821	-0.001	586198	98.41	99.22	0.8	Methoxychlor
8.452	-0.000	254090	9.119	-0.000	286425	19.93	20.18	1.2	Endrin ketone
7.743	-0.001	184716	8.331	0.000	207509	20.43	20.34	0.4	Endrin aldehyde
6.267	-0.000	150690	6.939	0.000	180266	10.36	10.36	0.1	trans-Chlordane
6.413	-0.001	150822	7.100	-0.000	176894	10.33	10.32	0.1	cis-Chlordane
2.308	0.000	206966	2.452	-0.001	244467	10.08	10.45	3.6	Hexachlorobutadiene
4.175	-0.000	178711	4.622	-0.000	231238	10.15	10.28	1.3	Hexachlorobenzene
3.819	0.000	263469	4.136	-0.000	349814	20.69	20.95	1.2	Tetrachloro-m-xylene
9.366	-0.001	166503	10.306	-0.000	180273	19.28	20.12	4.3	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

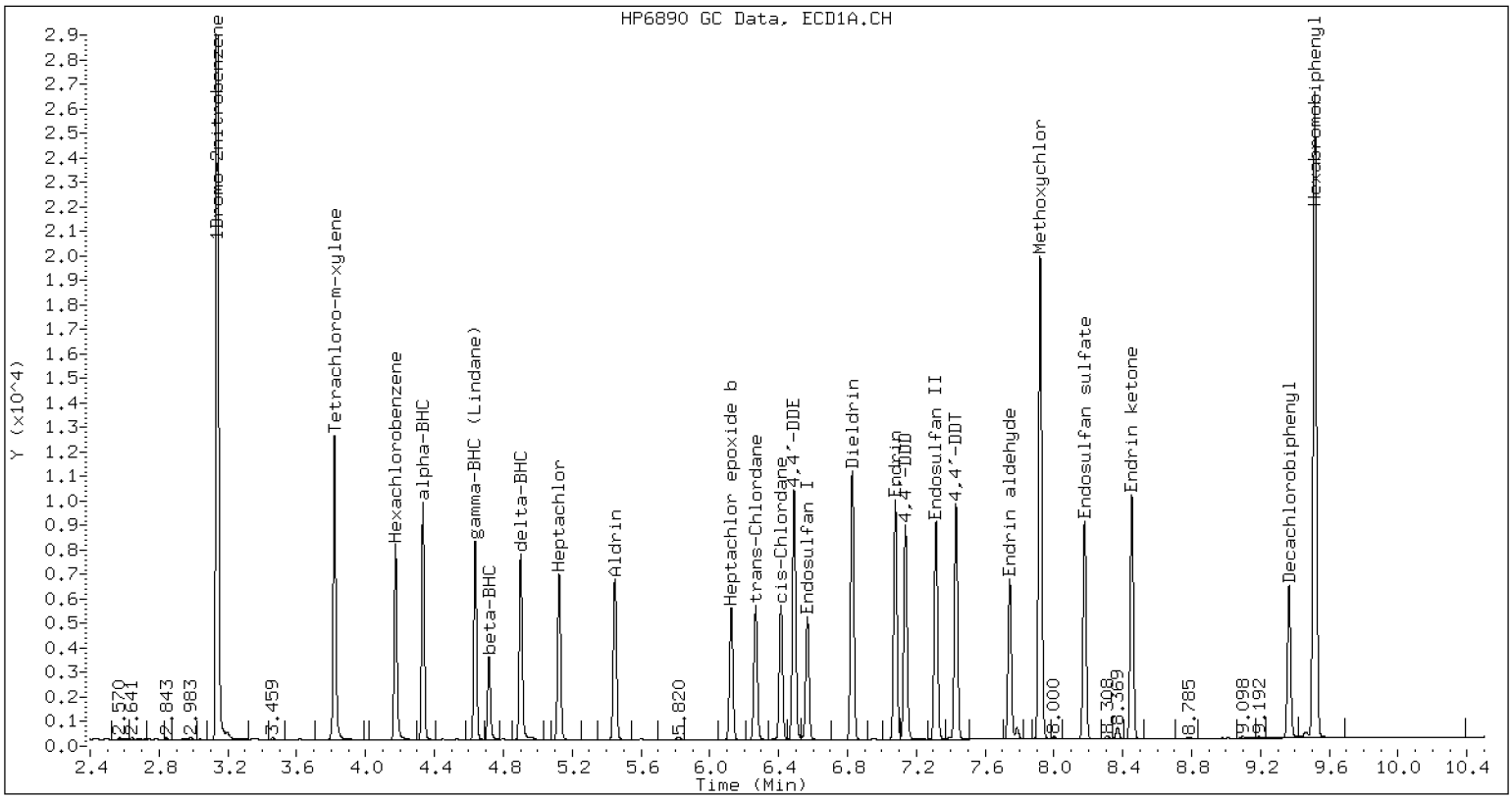
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	910053	5.3
Hexabromobiphenyl	663237	732158	10.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1214458	-18.0
Hexabromobiphenyl	870561	742252	-14.7

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

/20230412.b/23041208.D SEQ-CAL4 STX-CLP 12-APR-2023 16:48 1ul



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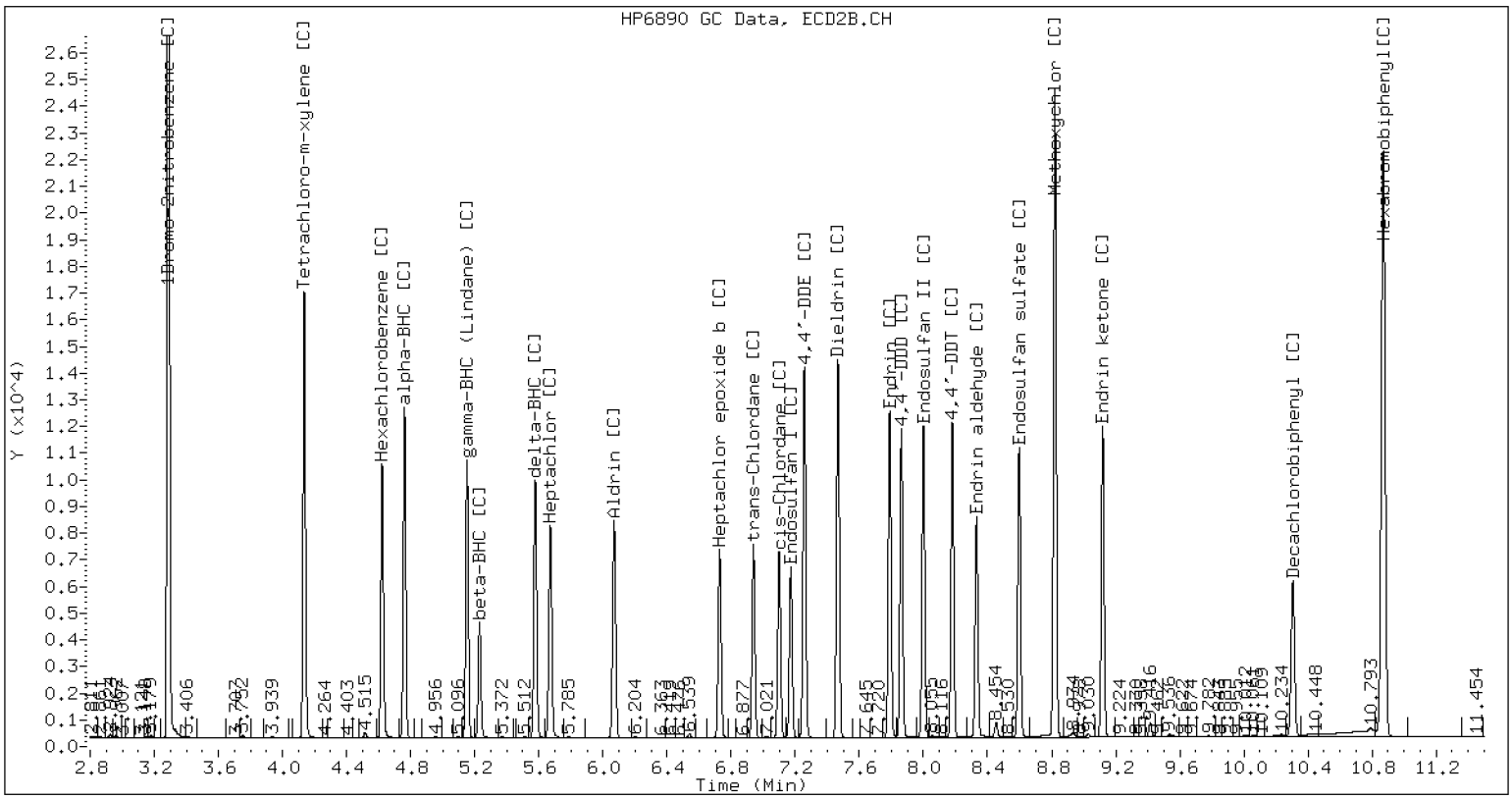
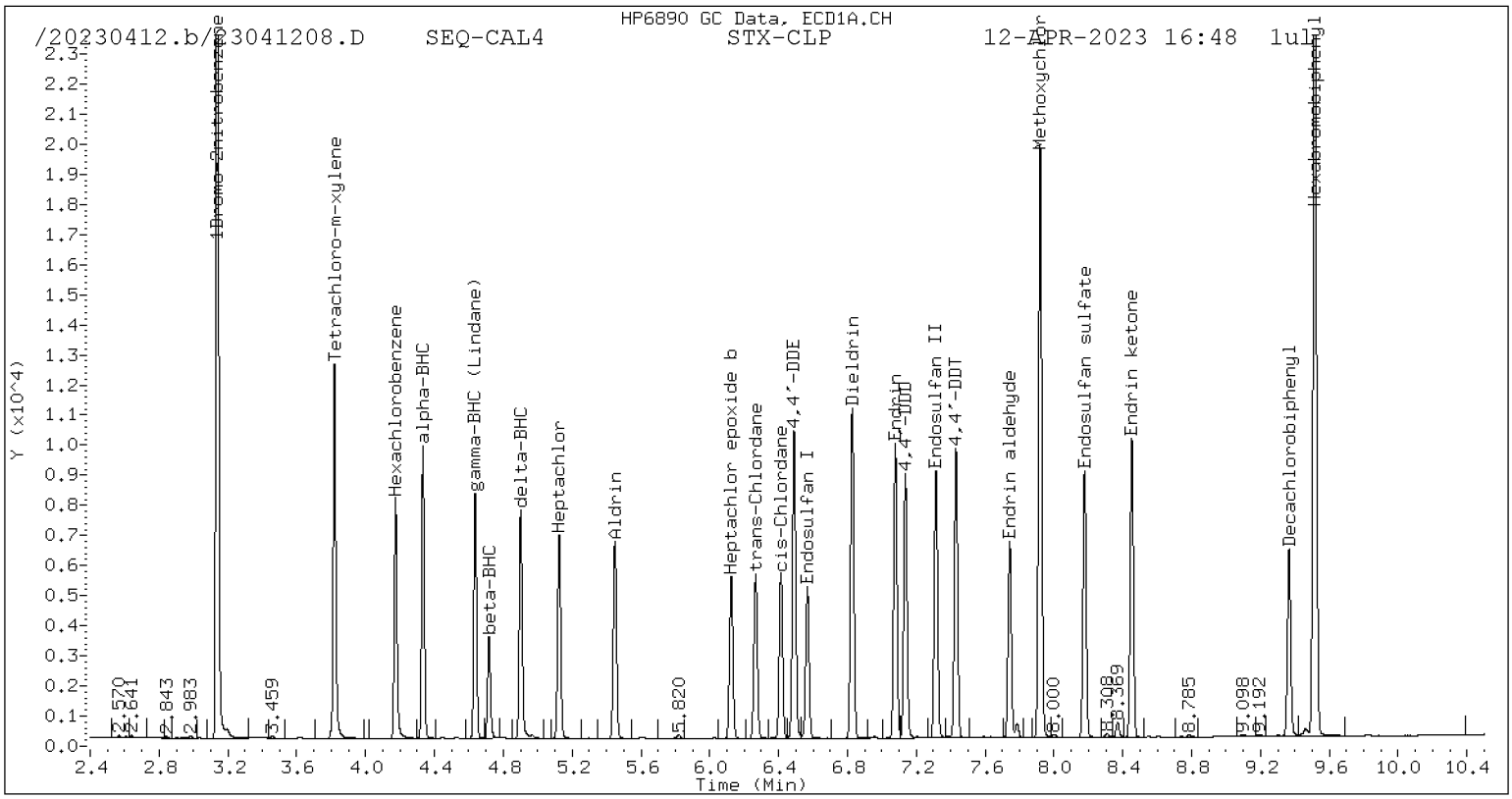
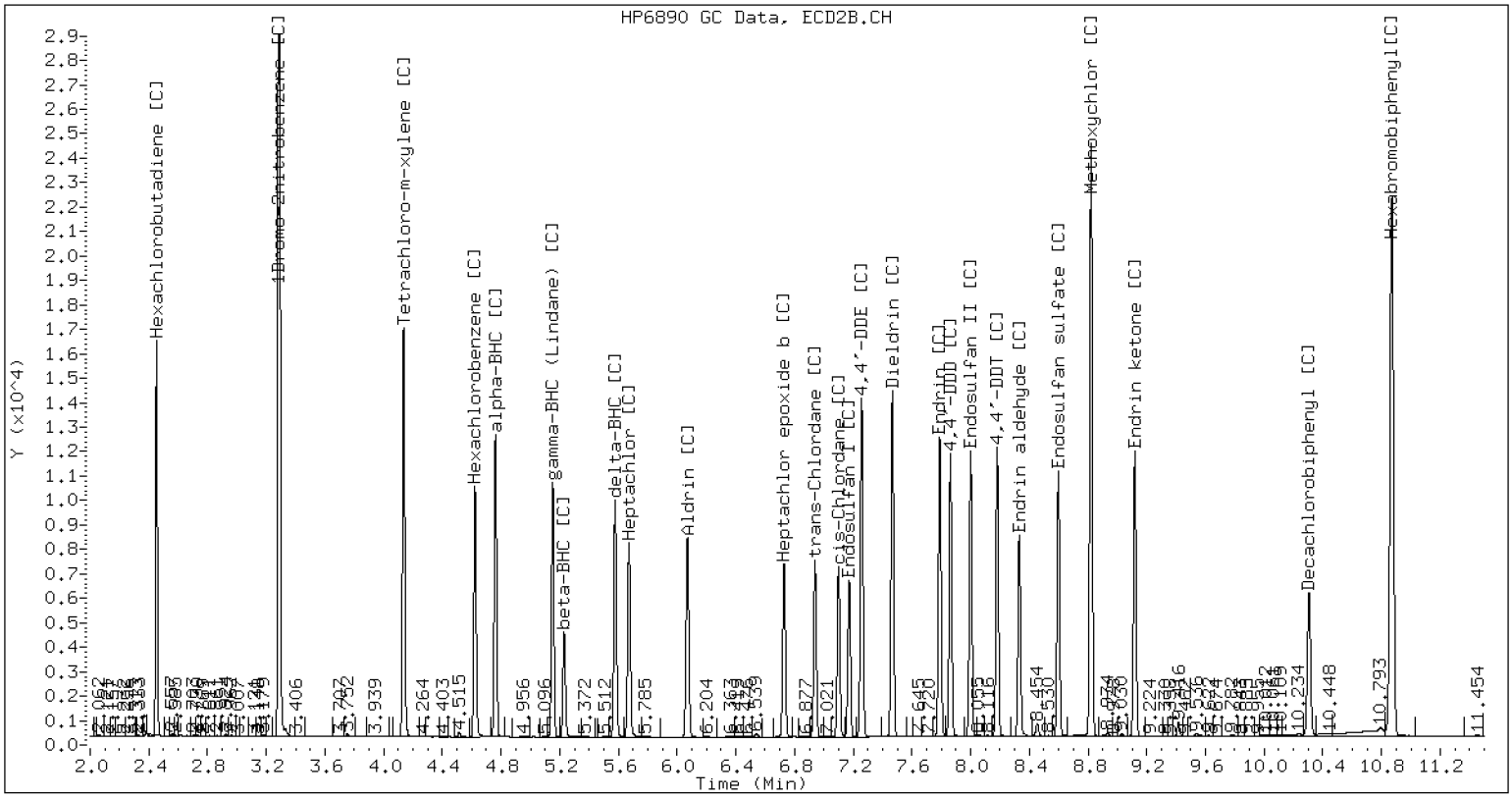


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041208.D SEQ-CAL4 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041209.D
Data file 2: /20230412.b/B20230412.b/23041209.D
Method: \20230412.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL6
Client ID:
Injection Date: 12-APR-2023 17:06
Report Date: 04/13/2023 12:57
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.333	0.000	789082	4.762	0.000	1053745	39.26	40.45	3.0	alpha-BHC
4.717	-0.001	298836	5.230	-0.000	393735	37.23	38.05	2.2	beta-BHC
4.901	-0.001	708304	5.577	0.000	933504	38.92	40.25	3.4	delta-BHC
4.637	0.000	688986	5.152	-0.000	916016	39.01	39.99	2.5	gamma-BHC (Lindane)
5.125	-0.000	604529	5.671	0.000	770994	36.98	38.38	3.7	Heptachlor
5.448	-0.000	629969	6.071	-0.000	812922	37.88	38.99	2.9	Aldrin
6.125	-0.002	526148	6.729	-0.000	668897	35.05	36.44	3.9	Heptachlor epoxide b
6.567	-0.001	493488	7.173	0.001	596729	36.88	38.16	3.4	Endosulfan I
6.829	0.000	1030944	7.466	0.000	1279184	72.81	74.62	2.5	Dieldrin
6.489	-0.001	993535	7.257	0.000	1220084	74.41	74.77	0.5	4,4'-DDE
7.078	-0.001	907557	7.790	-0.000	1098211	72.71	73.00	0.4	Endrin
7.314	-0.001	848911	8.001	-0.000	1048450	72.63	73.77	1.6	Endosulfan II
7.137	-0.001	838729	7.862	0.000	1040087	74.86	75.63	1.0	4,4'-DDD
8.178	-0.000	805013	8.598	0.000	975785	73.05	74.56	2.1	Endosulfan sulfate
7.431	-0.000	908115	8.181	0.000	1053162	75.26	75.90	0.9	4,4'-DDT
7.920	-0.001	1796134	8.821	-0.001	2104774	347.45	353.79	1.8	Methoxychlor
8.452	-0.000	896939	9.120	0.001	1042272	71.33	72.93	2.2	Endrin ketone
7.743	-0.001	649599	8.332	0.001	756869	72.82	73.66	1.1	Endrin aldehyde
6.266	-0.000	563470	6.940	0.001	689422	38.37	39.17	2.1	trans-Chlordane
6.414	-0.000	558211	7.100	-0.000	670499	37.86	38.69	2.2	cis-Chlordane
2.309	0.001	760920	2.453	-0.000	896023	36.70	37.88	3.2	Hexachlorobutadiene
4.175	-0.000	651738	4.623	0.001	846379	36.64	37.20	1.5	Hexachlorobenzene
3.819	-0.000	933369	4.136	0.000	1232611	72.57	72.99	0.6	Tetrachloro-m-xylene
9.367	0.000	579829	10.306	0.000	644132	68.06	71.40	4.8	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

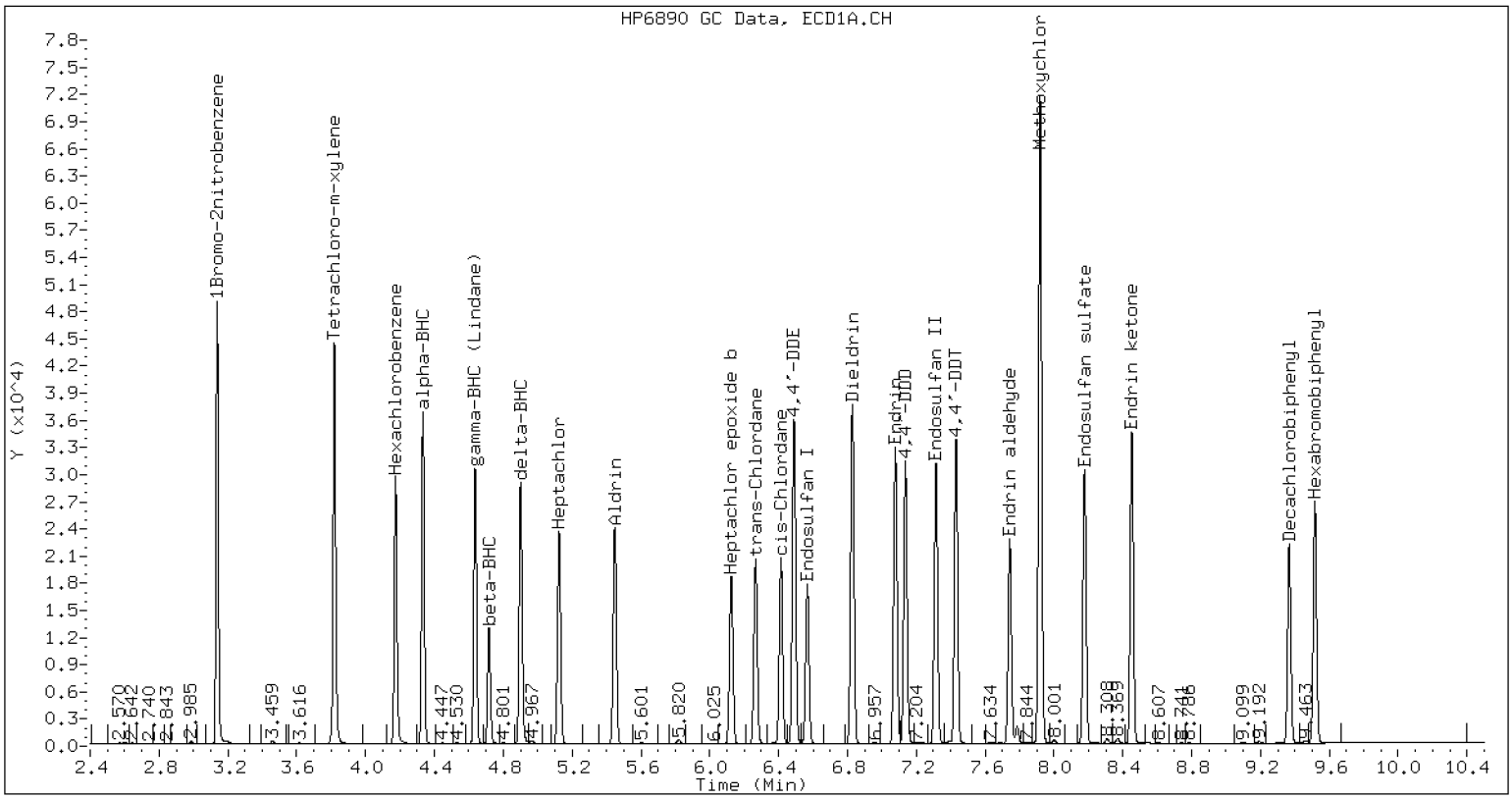
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	919249	6.4
Hexabromobiphenyl	663237	722285	8.9

Column 2

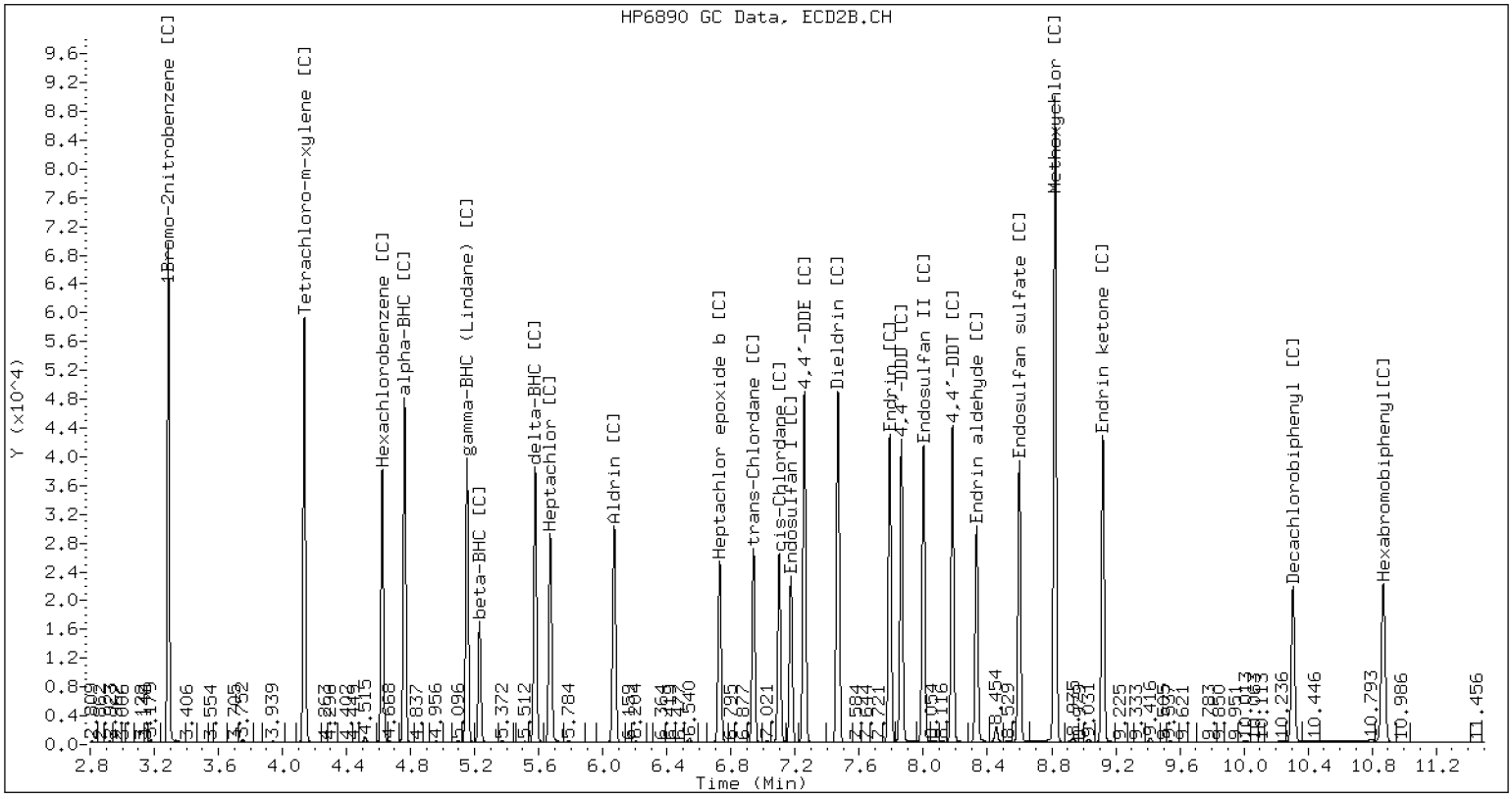
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1228056	-17.1
Hexabromobiphenyl	870561	747465	-14.1

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

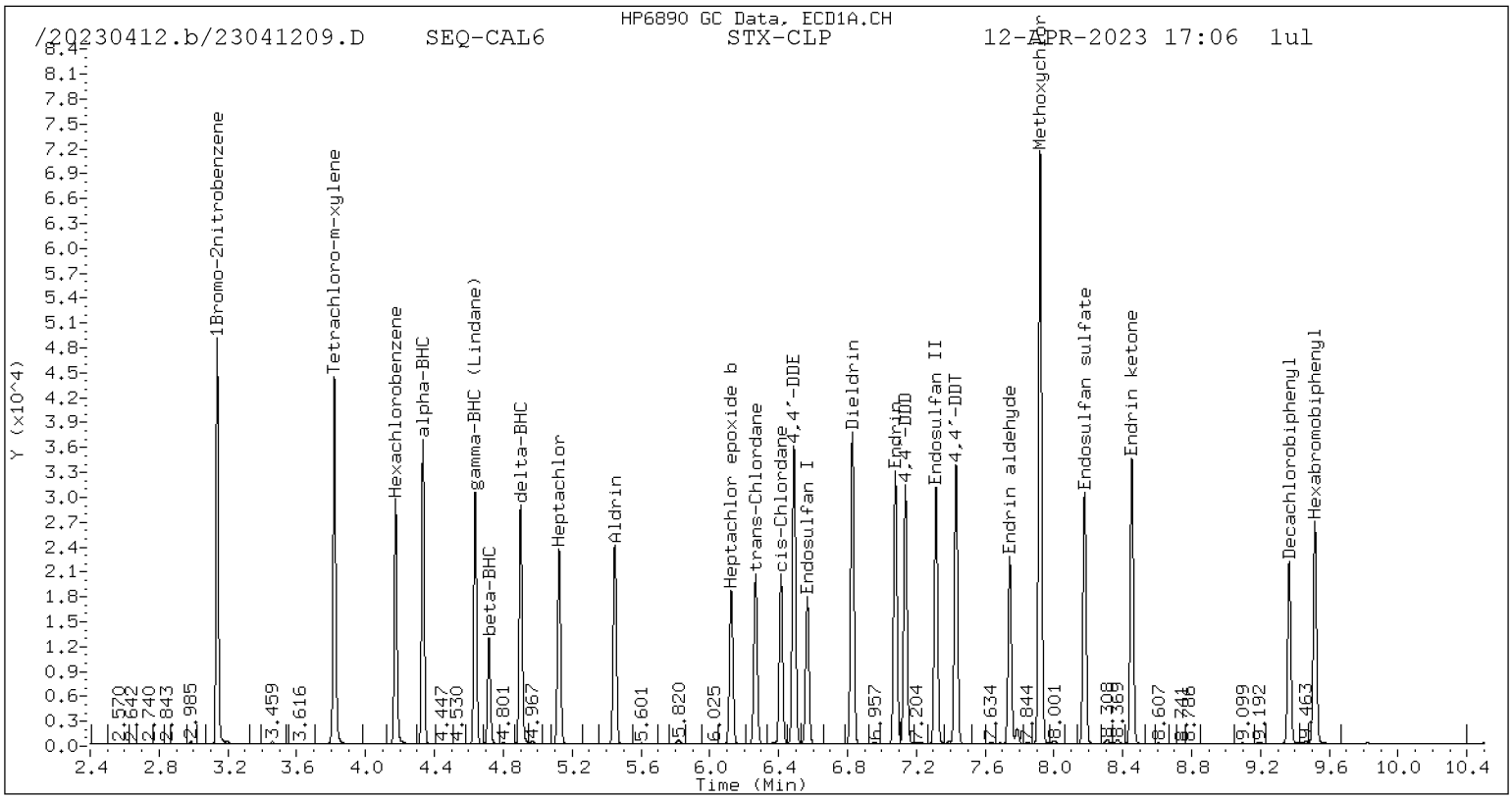
/20230412.b/23041209.D SEQ-CAL6 STX-CLP 12-APR-2023 17:06 1ul



/20230412.b/B20230412.b/23041209.D SEQ-CAL6 CLP2 12-APR-2023 17:06 1ul



Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

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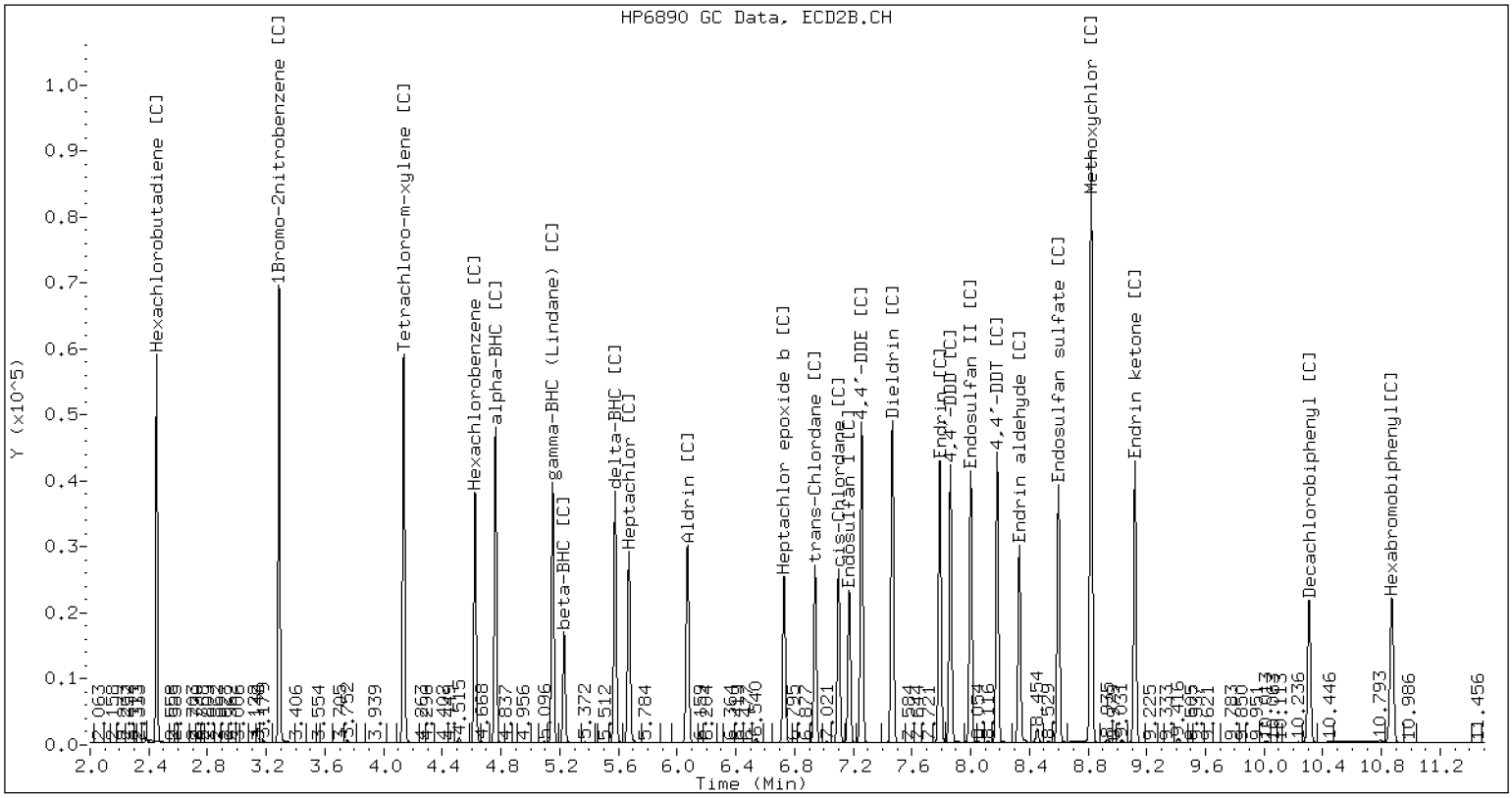


CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041210.D
Data file 2: /20230412.b/B20230412.b/23041210.D
Method: \20230412.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL7
Client ID:
Injection Date: 12-APR-2023 17:25
Report Date: 04/13/2023 12:57
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.333	0.000	1504143	4.762	0.000	2036495	74.20	77.68	4.6	alpha-BHC M
4.717	-0.001	564613	5.230	-0.000	751802	69.75	72.20	3.5	beta-BHC M
4.901	-0.002	1348410	5.577	-0.000	1780227	73.47	76.29	3.8	delta-BHC M
4.637	-0.000	1305188	5.152	-0.000	1754548	73.27	76.13	3.8	gamma-BHC (Lindane) M
5.124	-0.001	1105791	5.671	-0.000	1423580	67.07	70.43	4.9	Heptachlor M
5.448	-0.000	1164527	6.071	-0.000	1511414	69.44	72.04	3.7	Aldrin M
6.125	-0.002	957195	6.729	-0.000	1234899	63.23	66.86	5.6	Heptachlor epoxide b M
6.567	-0.001	902920	7.172	0.000	1107682	66.91	70.39	5.1	Endosulfan I M
6.828	-0.000	1891941	7.466	0.000	2384054	132.48	138.22	4.2	Dieldrin M
6.489	-0.001	1824093	7.257	0.000	2245750	135.47	136.78	1.0	4,4'-DDE M
7.078	-0.001	1667189	7.790	0.000	2038096	130.71	135.54	3.6	Endrin M
7.314	-0.001	1548044	8.001	-0.000	1990565	129.61	140.13	7.8	Endosulfan II M
7.136	-0.002	1549529	7.862	0.000	1970951	135.35	143.39	5.8	4,4'-DDD M
8.177	-0.001	1486482	8.598	-0.000	1840819	132.01	140.73	6.4	Endosulfan sulfate M
7.431	-0.001	1683975	8.181	-0.000	2003848	136.58	144.49	5.6	4,4'-DDT M
7.920	-0.000	3475120	8.822	-0.000	4197295	657.88	705.85	7.0	Methoxychlor M
8.452	-0.001	1668350	9.119	0.000	1981664	129.84	138.74	6.6	Endrin ketone M
7.743	-0.001	1195780	8.331	0.000	1420645	131.18	138.32	5.3	Endrin aldehyde M
6.266	-0.001	1056187	6.939	0.000	1305882	71.31	73.74	3.4	trans-Chlordane M
6.413	-0.001	1043284	7.100	-0.000	1272519	70.16	72.97	3.9	cis-Chlordane M
2.309	0.001	1437797	2.453	0.000	1654665	68.77	69.52	1.1	Hexachlorobutadiene
4.175	-0.001	1223325	4.622	0.000	1599265	68.19	69.86	2.4	Hexachlorobenzene M
3.819	0.000	1715340	4.136	0.000	2273933	132.23	133.82	1.2	Tetrachloro-m-xylene M
9.366	-0.000	1089026	10.306	-0.000	1229420	125.10	136.33	8.6	Decachlorobiphenyl M

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

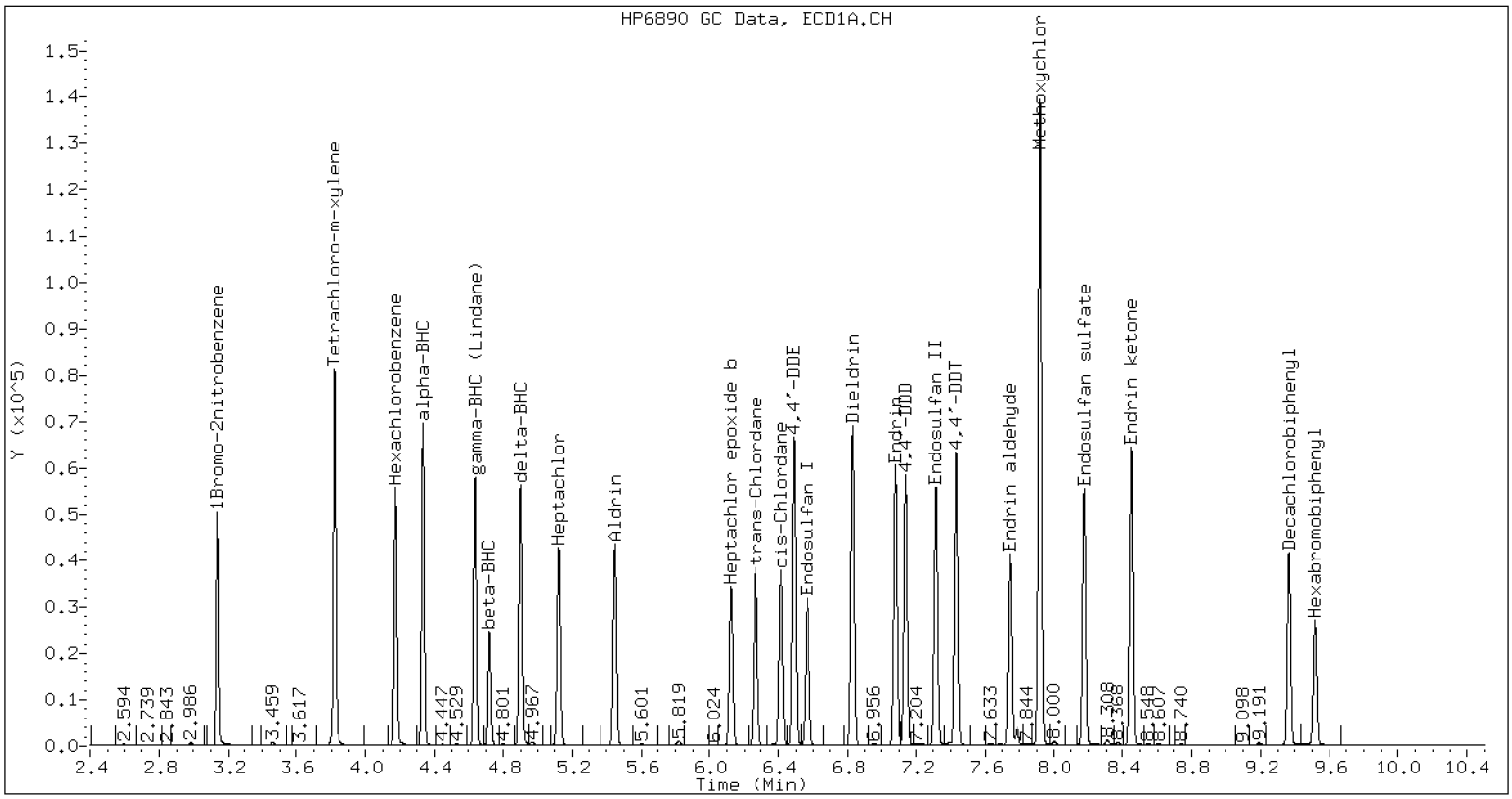
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	927085	7.3
Hexabromobiphenyl	663237	738060	11.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1235730	-16.6
Hexabromobiphenyl	870561	747107	-14.2

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

/20230412.b/23041210.D SEQ-CAL7 STX-CLP 12-APR-2023 17:25 1ul



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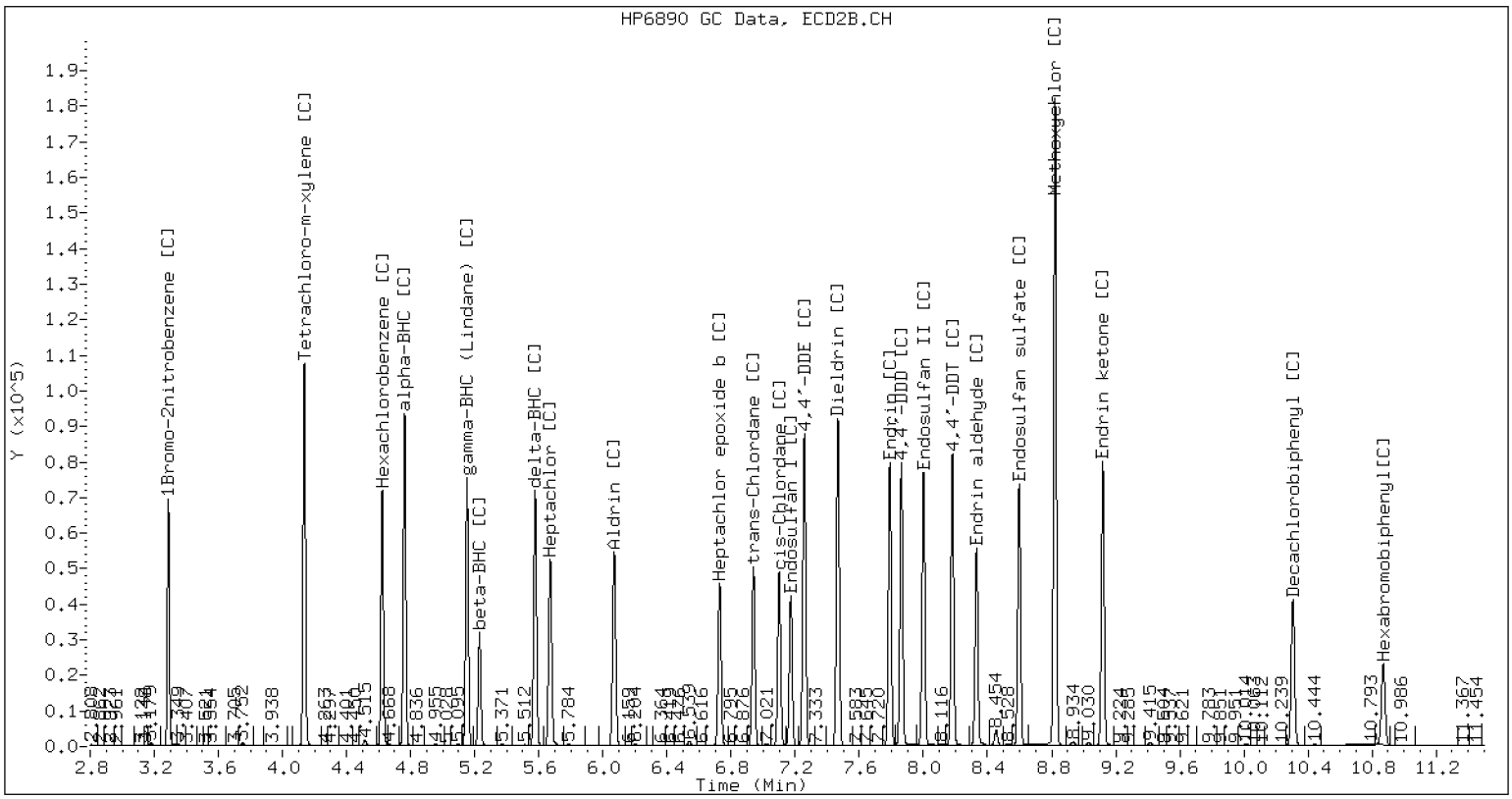
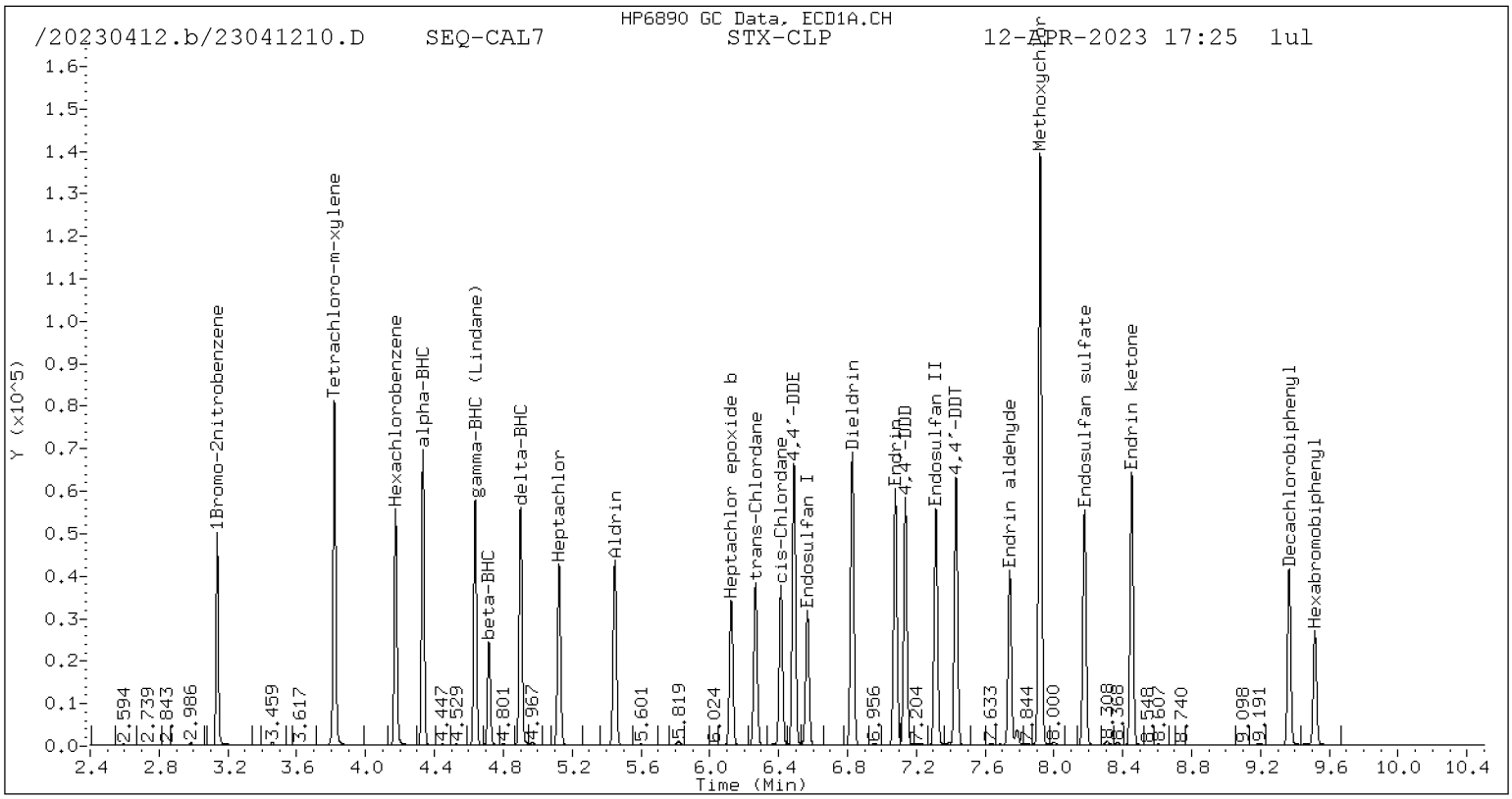
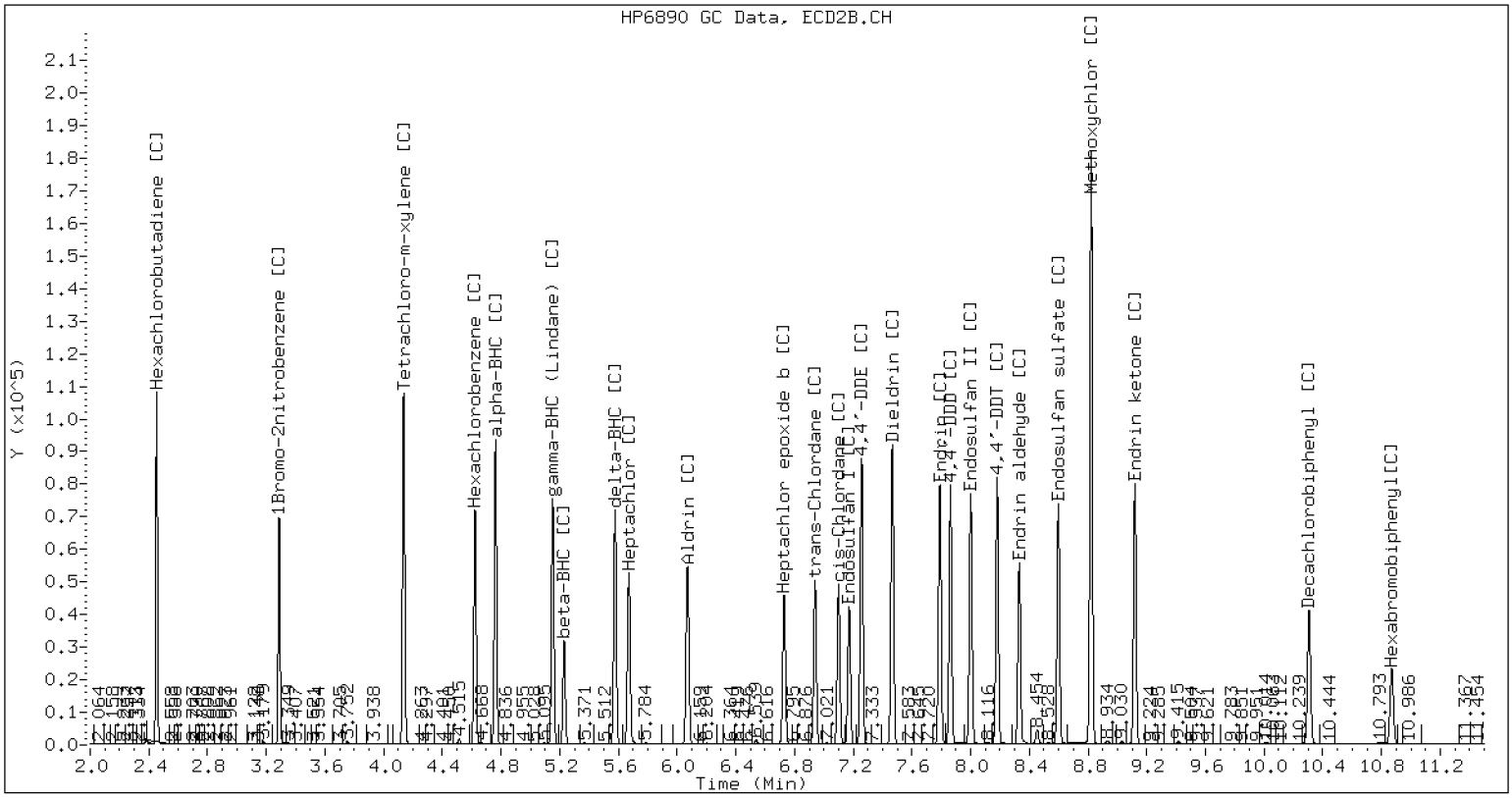


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

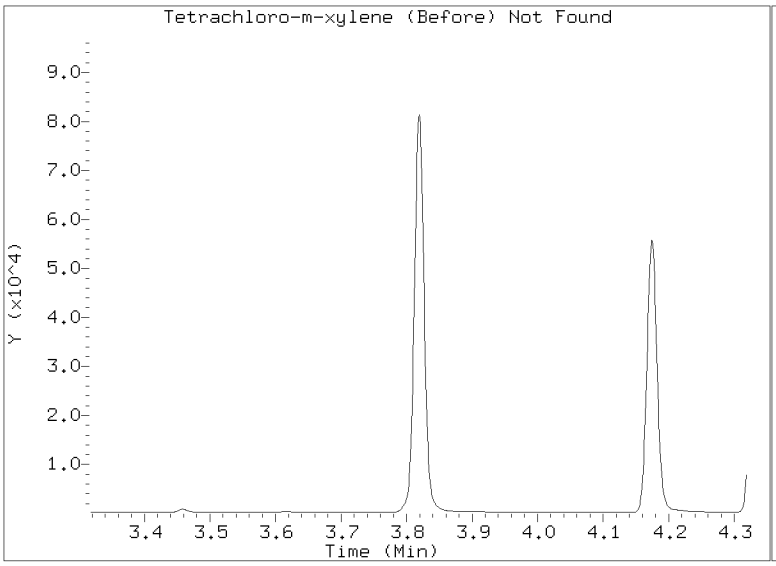
/20230412.b/B20230412.b/23041210.D SEQ-CAL7 CLP2

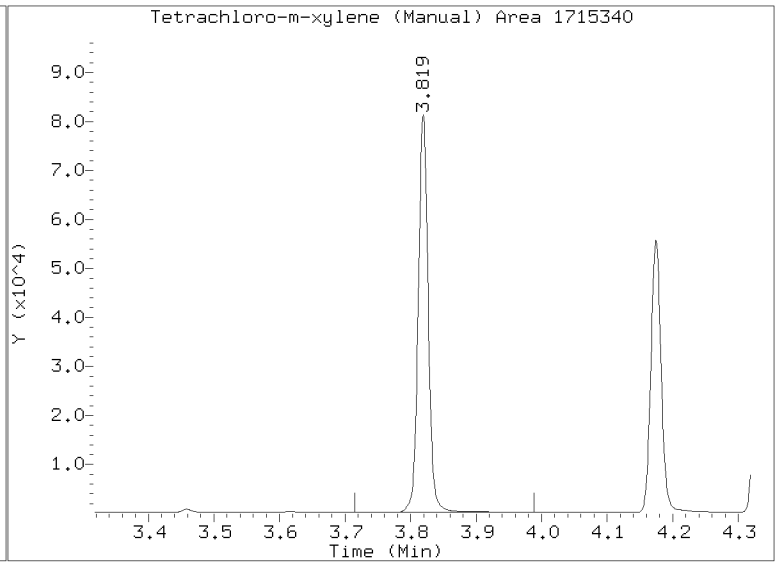


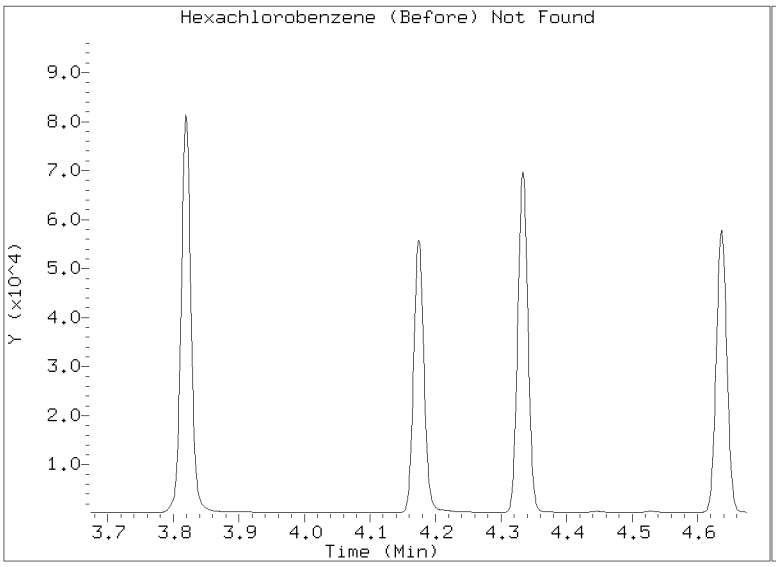
CLP-2 Manual Integration: YES

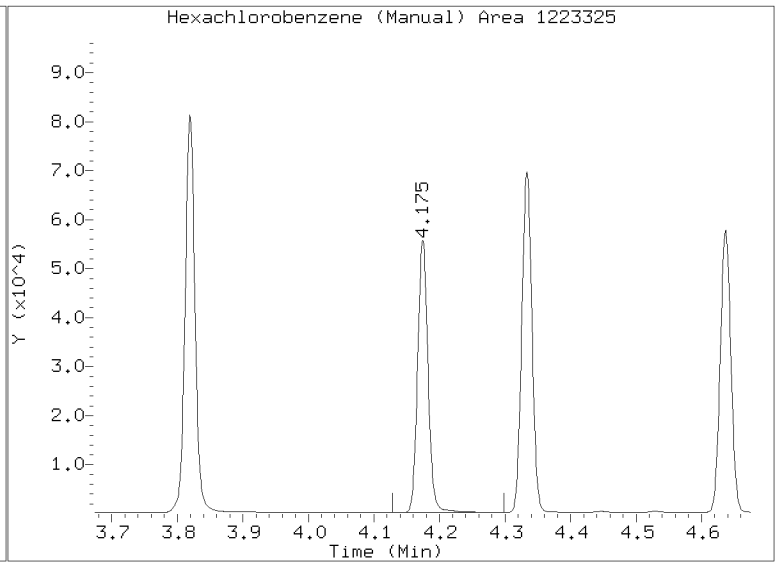
Manual Peak Adjustment Report, STX-CLP

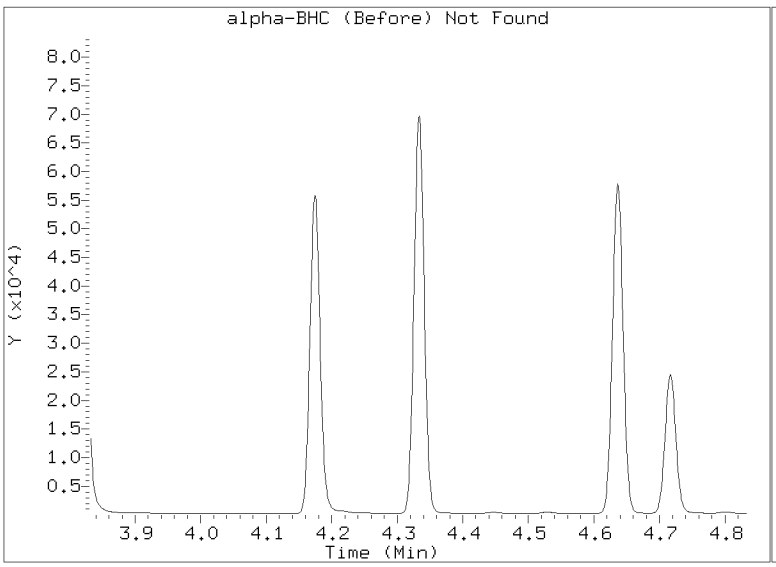
Datafile: /20230412.b/23041210.D
Injection Date: 12-APR-2023 17:25
Lab ID:SEQ-CAL7 Client ID:
Report Date: 04/13/2023 12:57

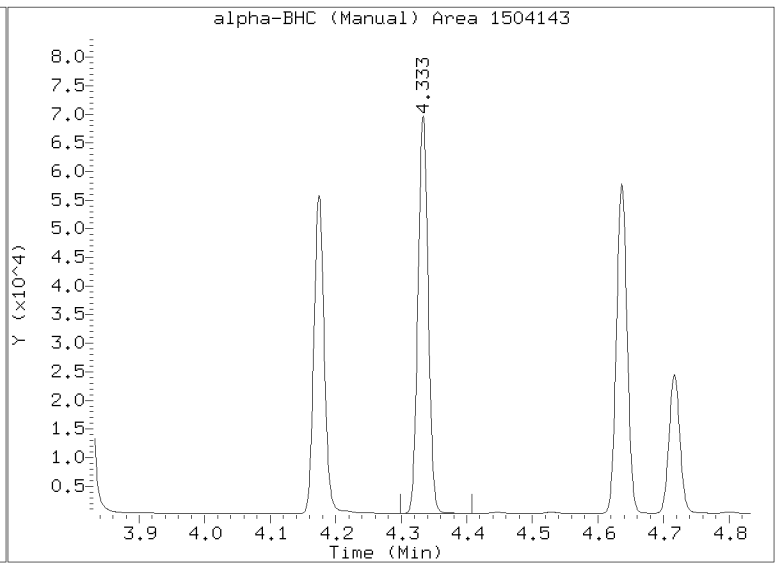












Manual Peak Adjustment Report, STX-CLP

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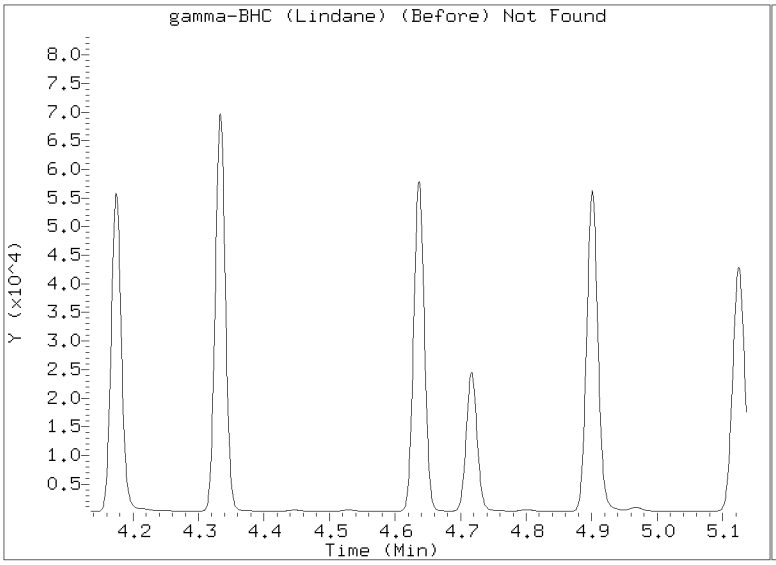

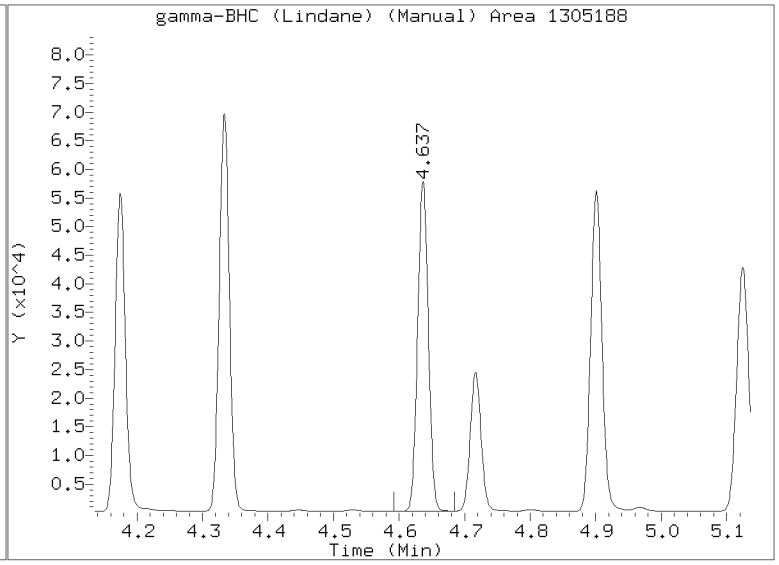

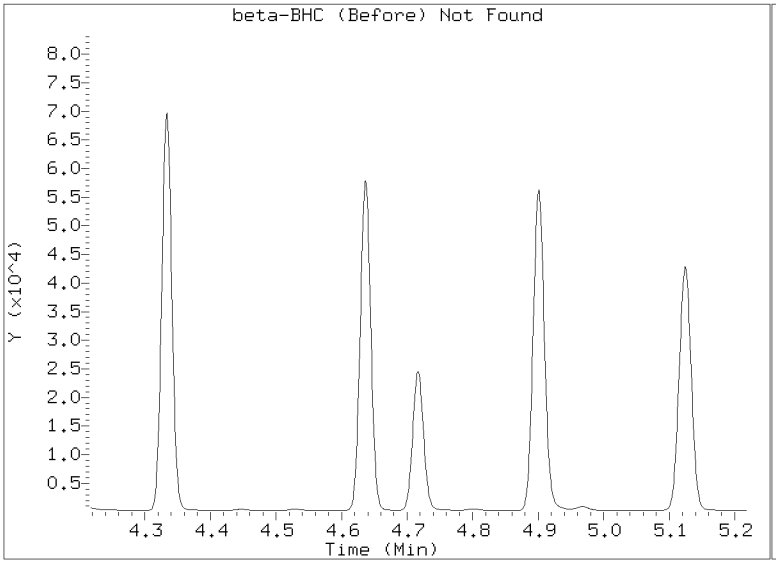

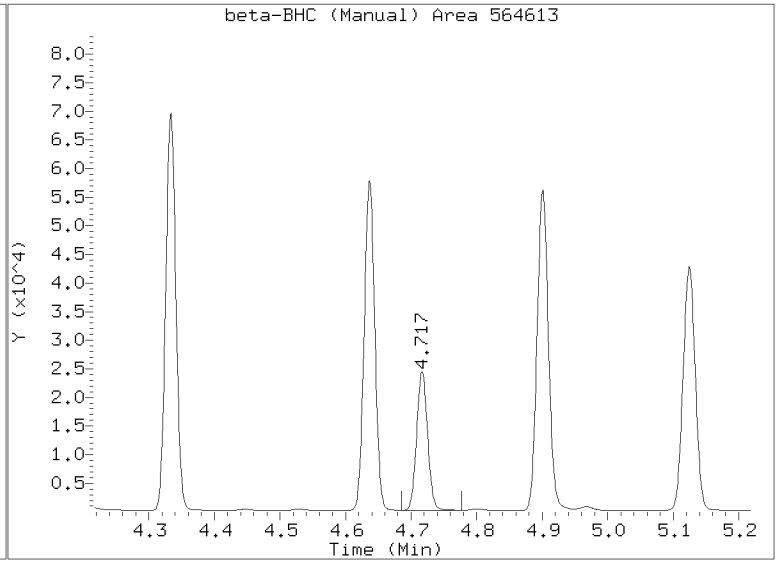

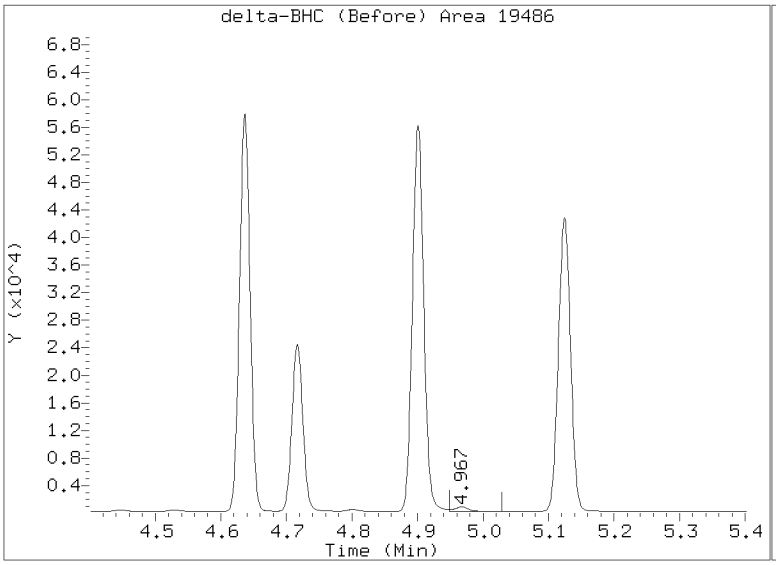

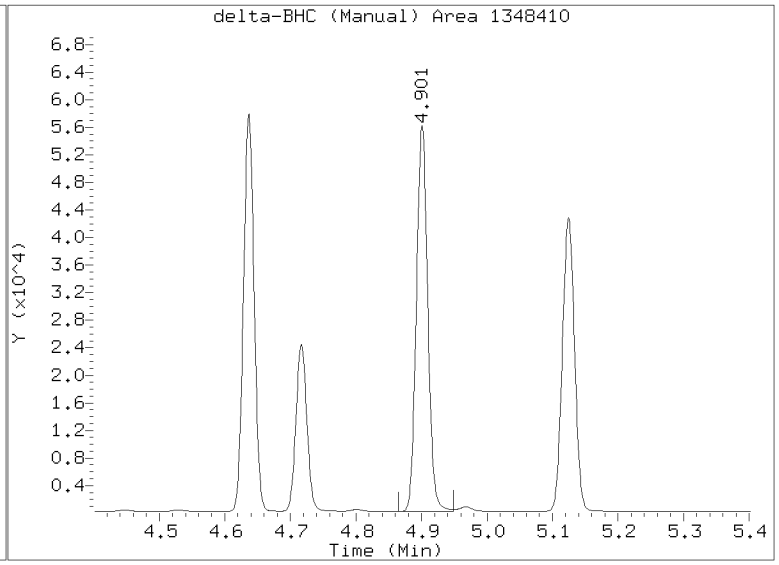

Manual Peak Adjustment Report, STX-CLP

Datafile: /20230412.b/23041210.D
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Lab ID:SEQ-CAL7 Client ID:
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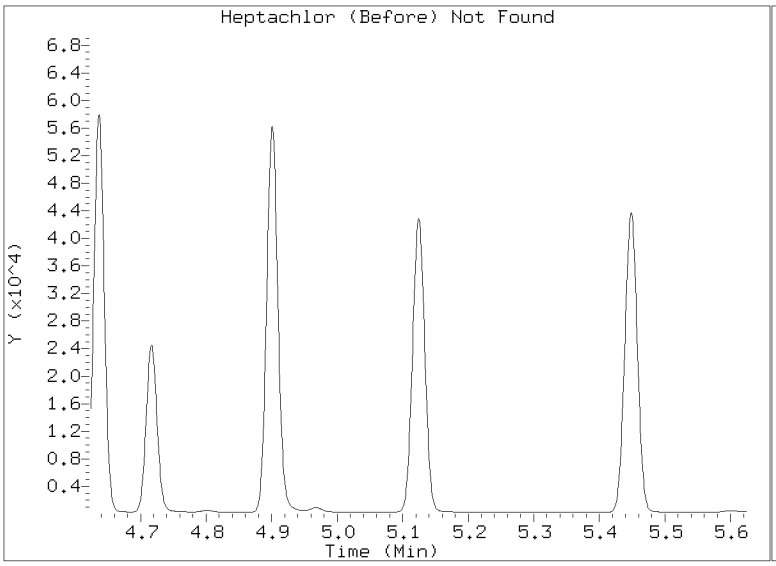

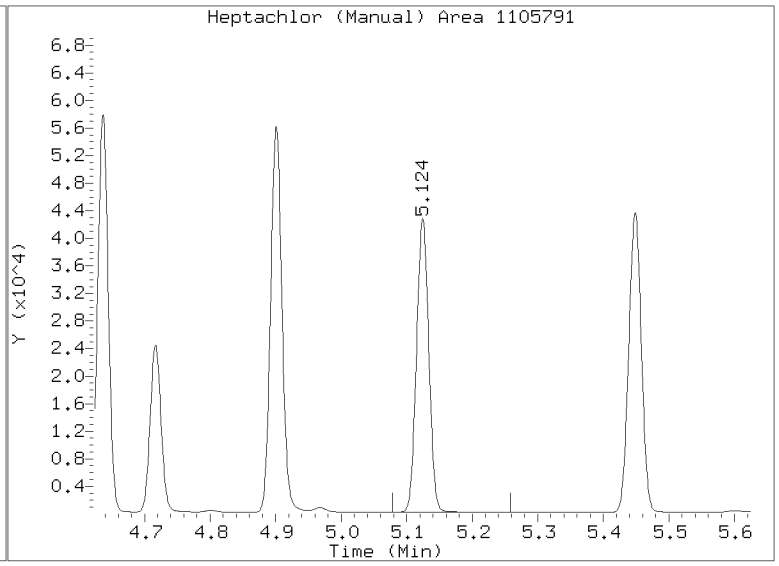

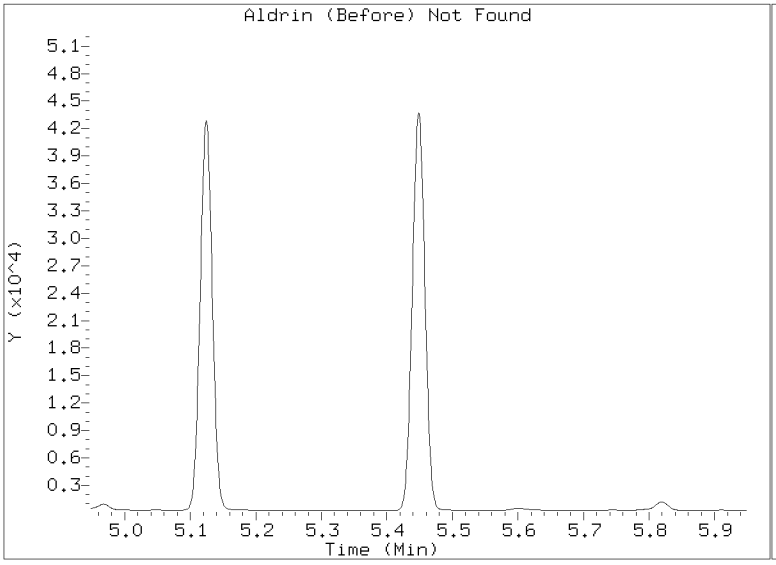

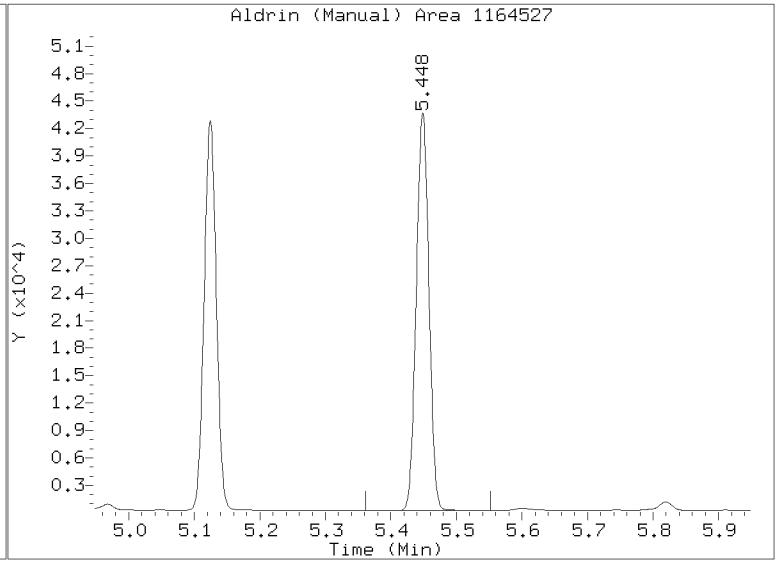

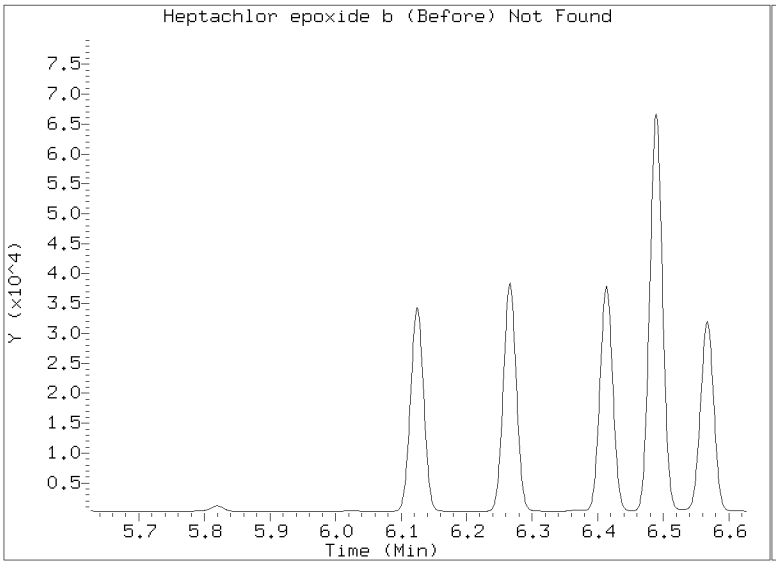

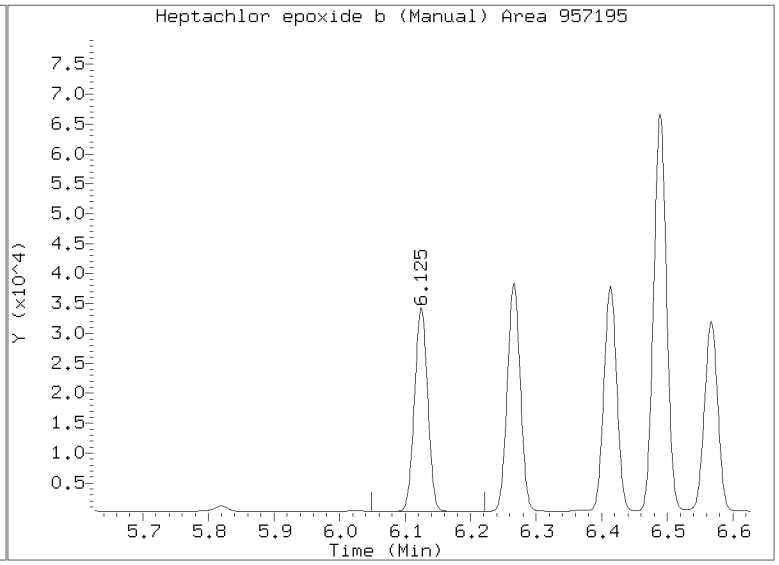

Manual Peak Adjustment Report, STX-CLP

Datafile: /20230412.b/23041210.D
Injection Date: 12-APR-2023 17:25
Lab ID:SEQ-CAL7 Client ID:
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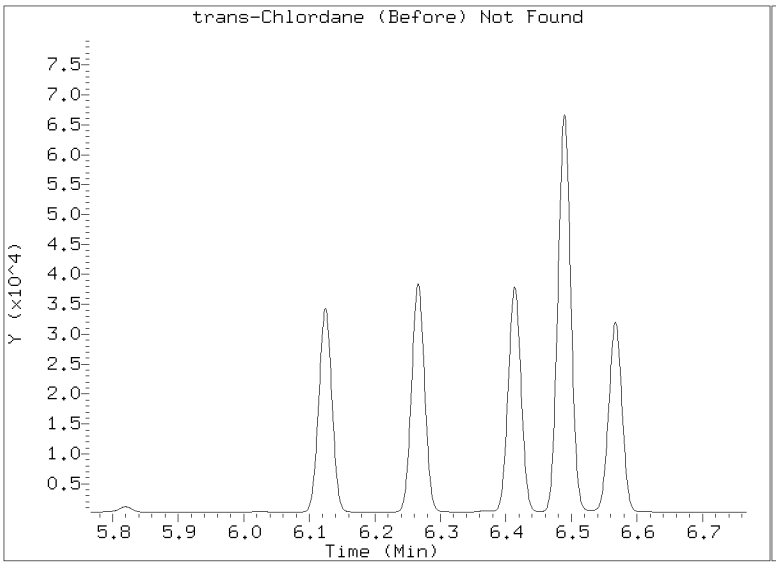

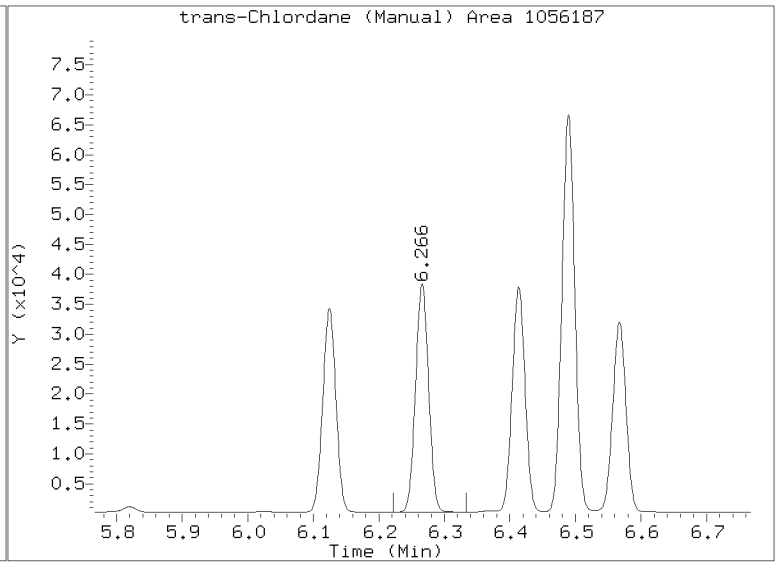

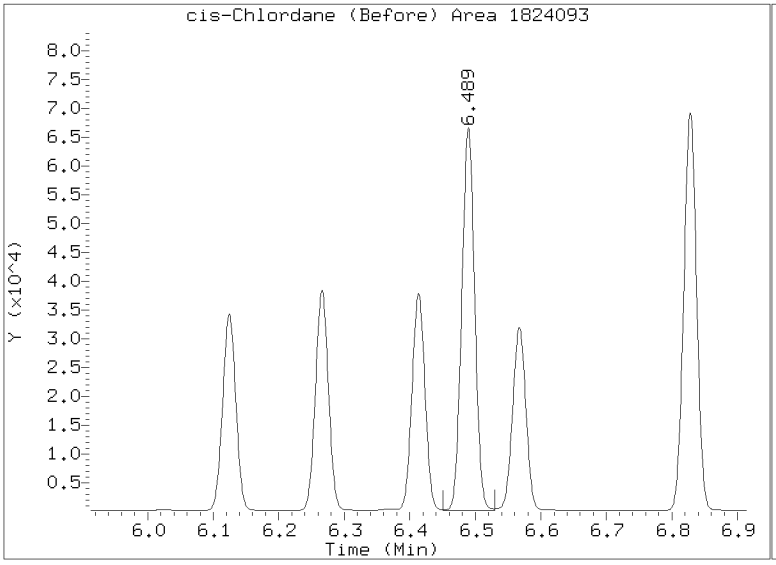

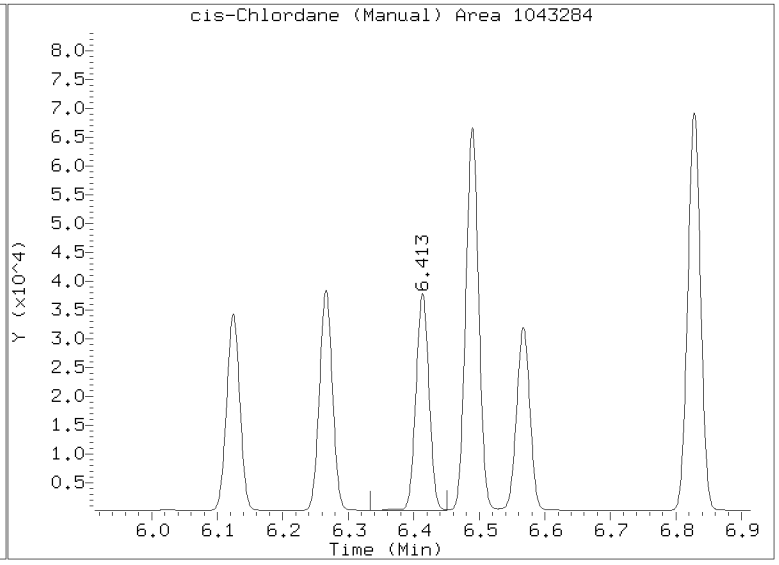

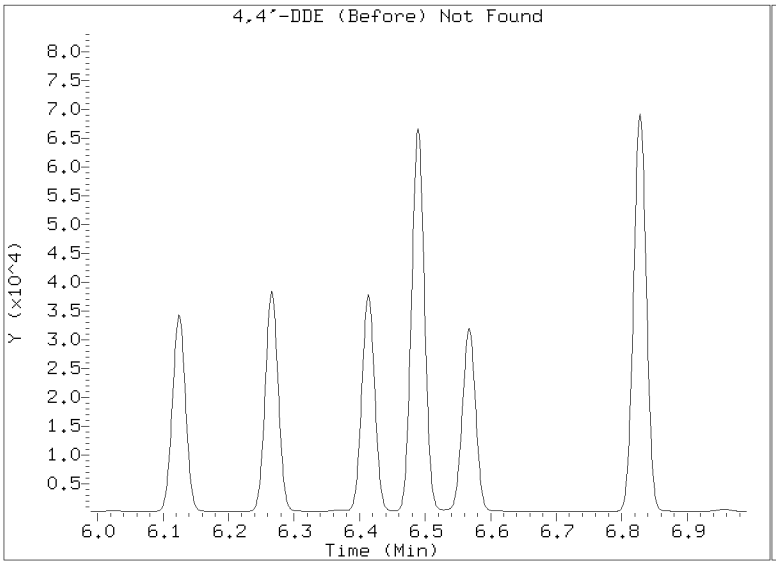

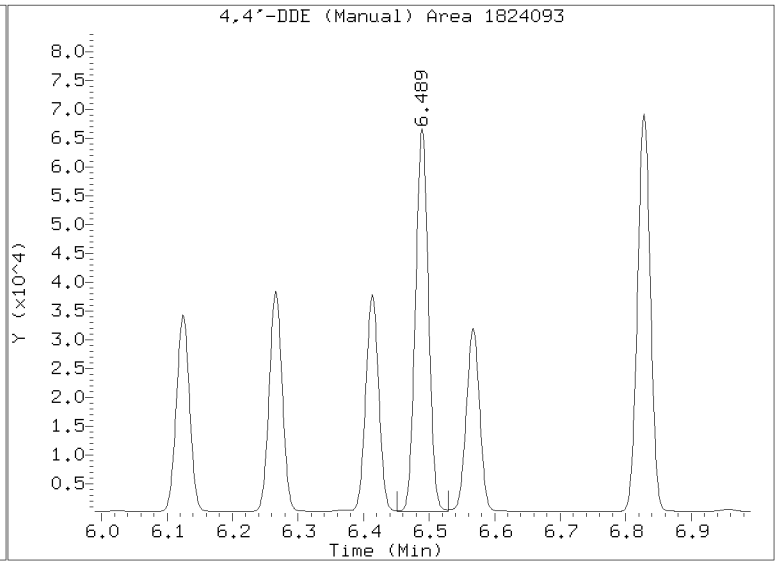

Manual Peak Adjustment Report, STX-CLP

Datafile: /20230412.b/23041210.D
Injection Date: 12-APR-2023 17:25
Lab ID:SEQ-CAL7 Client ID:
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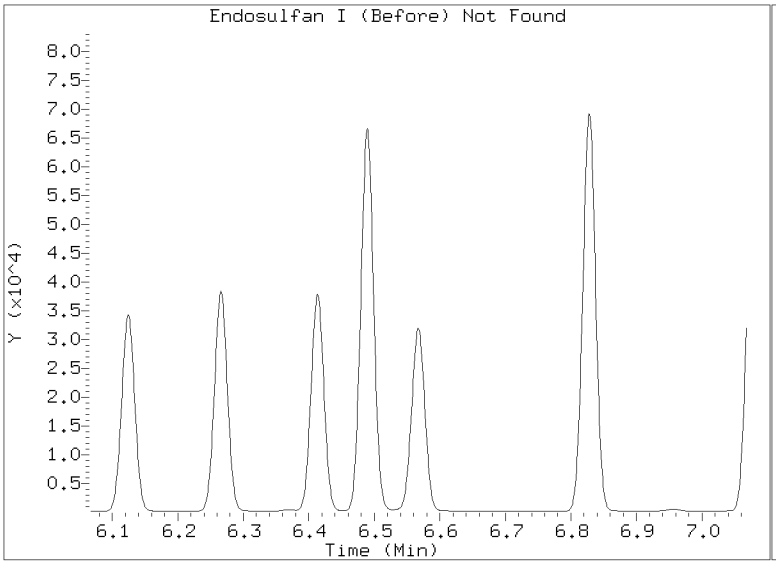

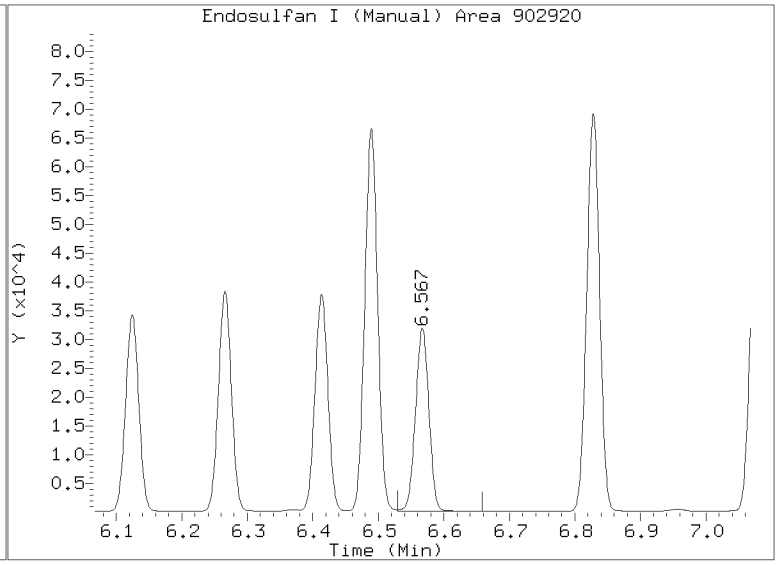

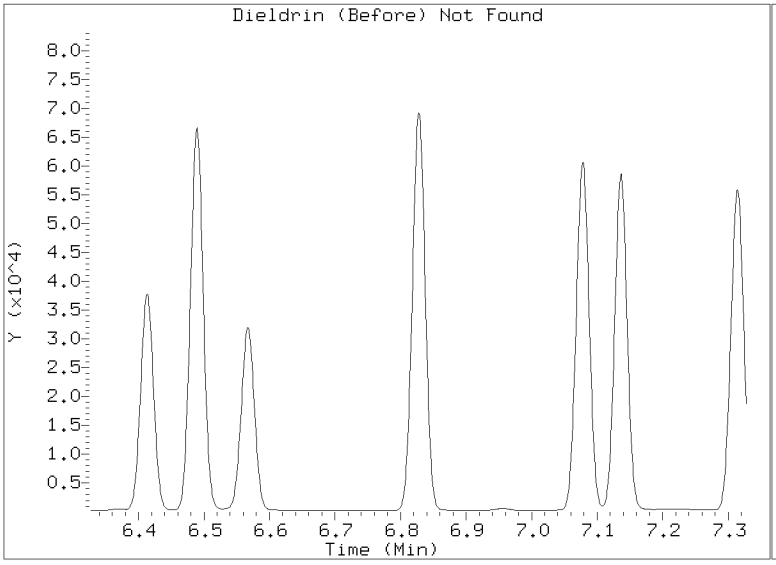

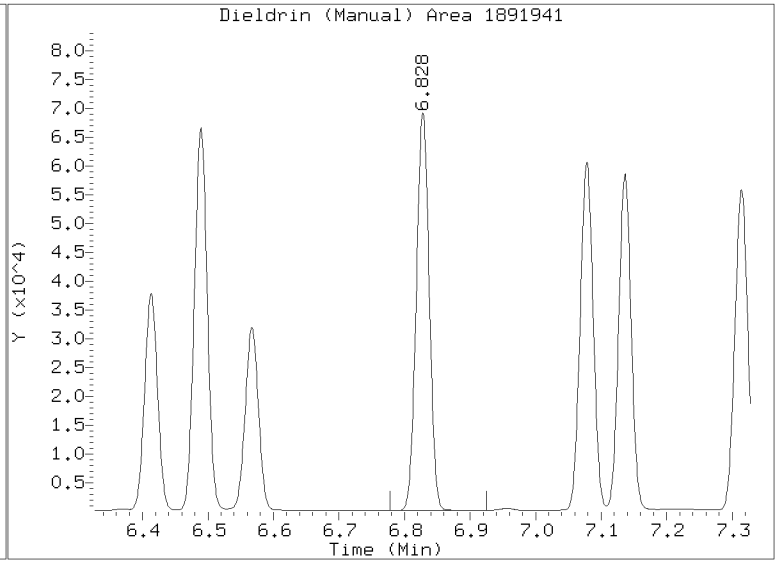

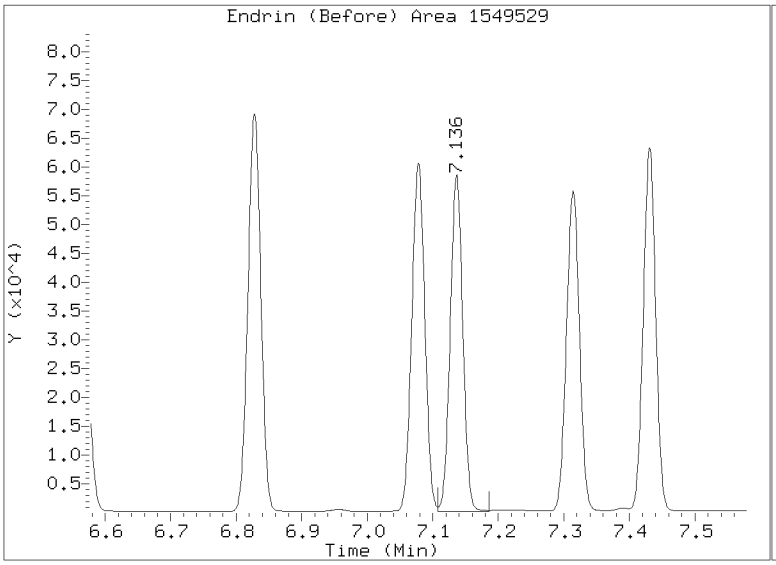

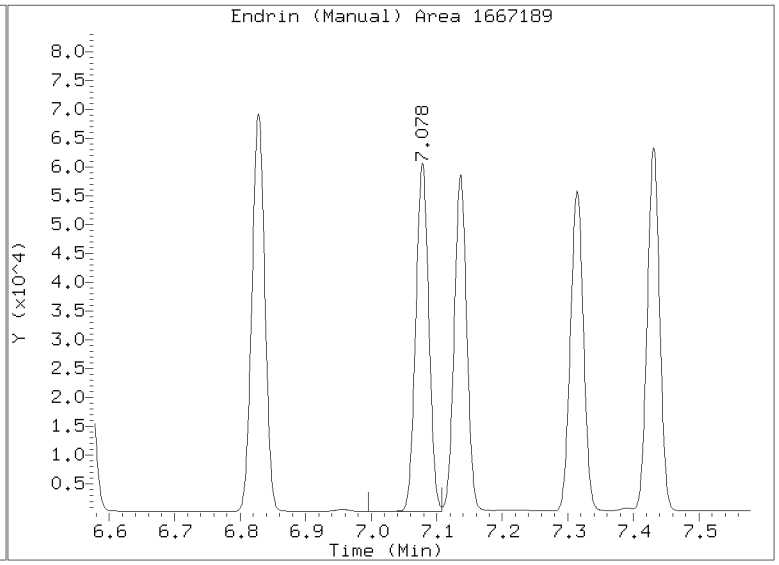

Manual Peak Adjustment Report, STX-CLP

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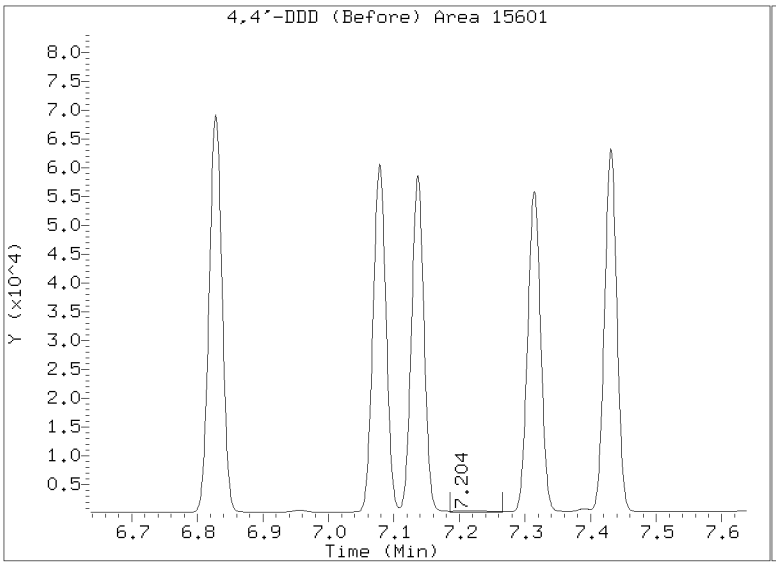

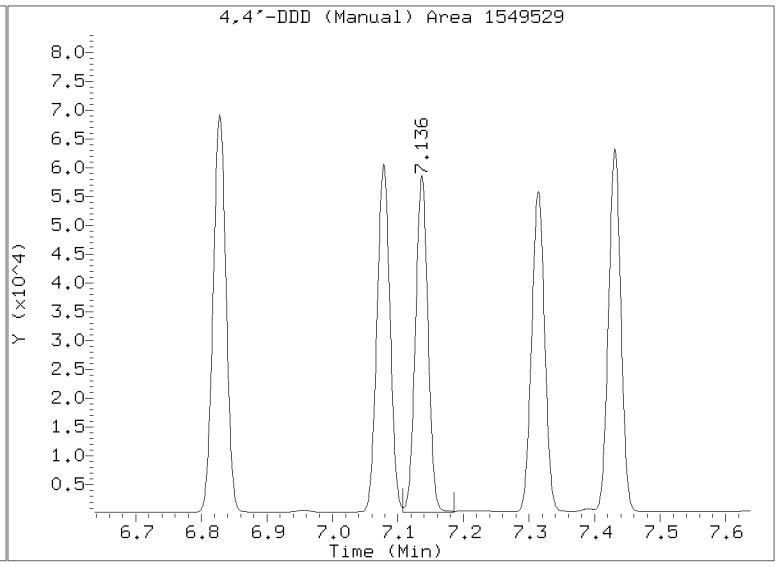

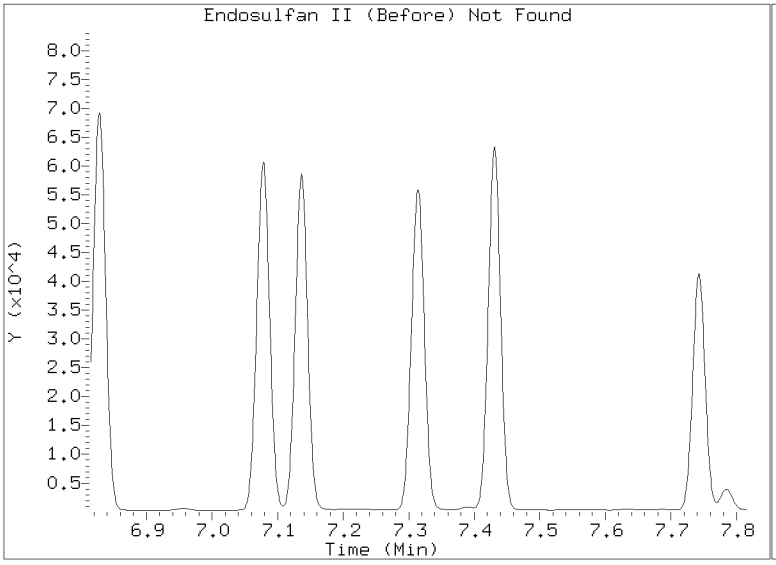

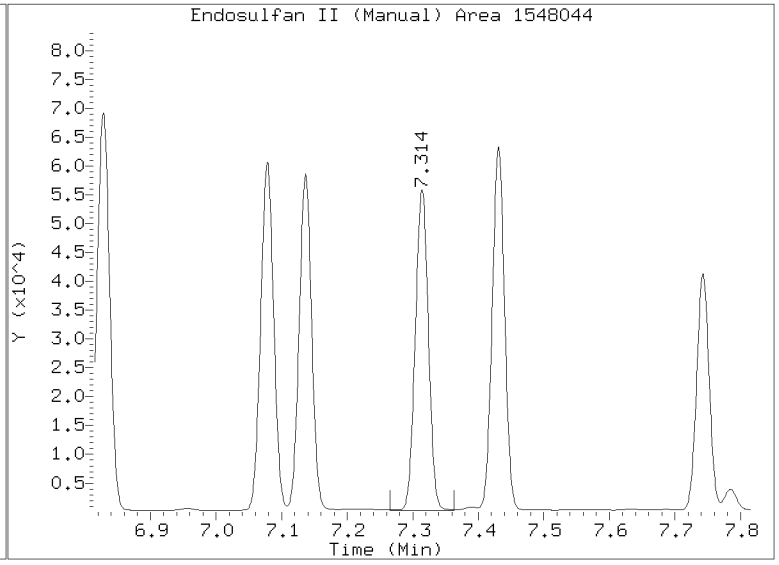

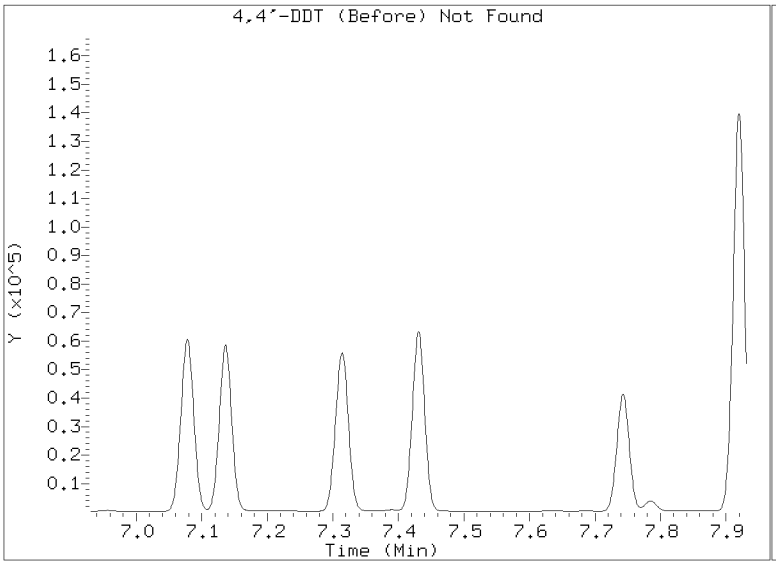

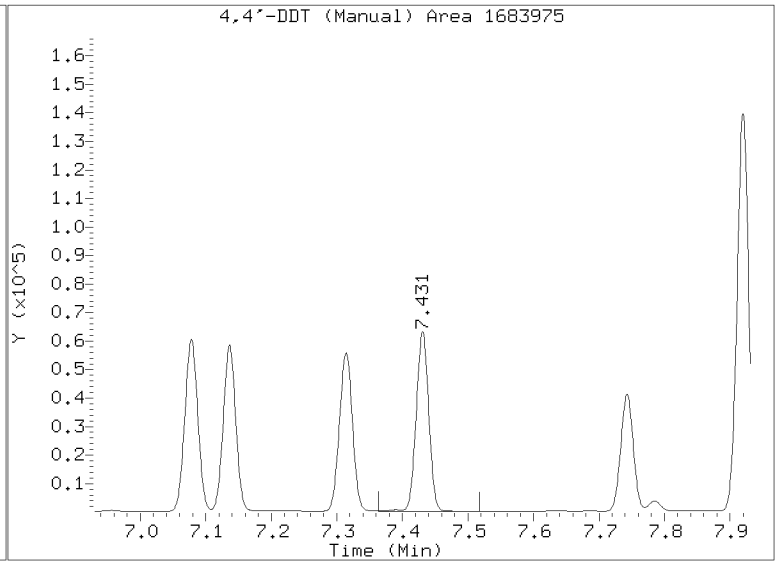

Manual Peak Adjustment Report, STX-CLP

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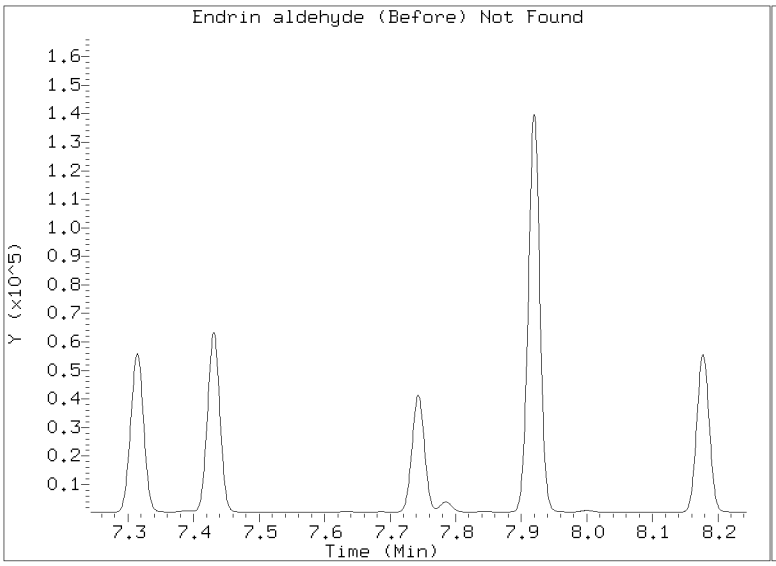
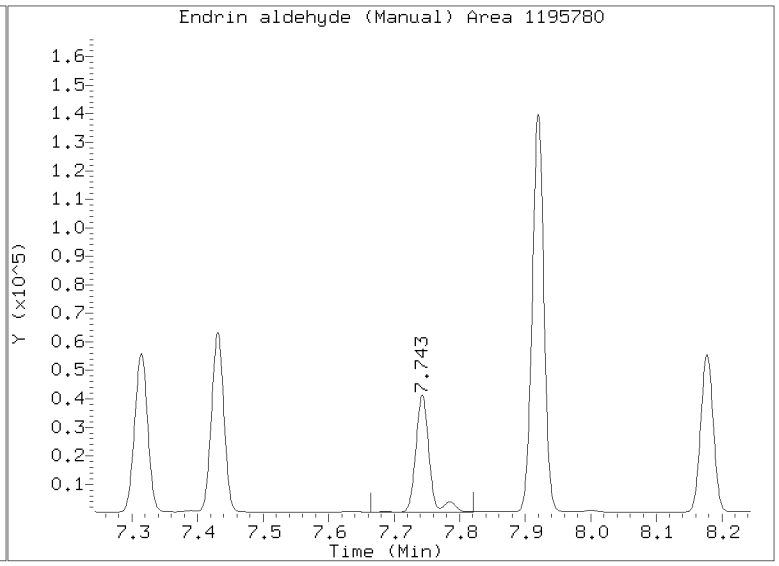
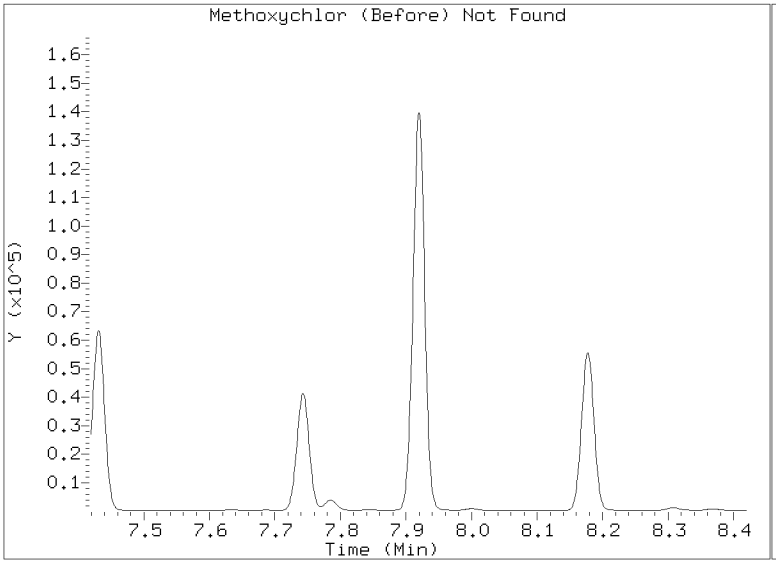
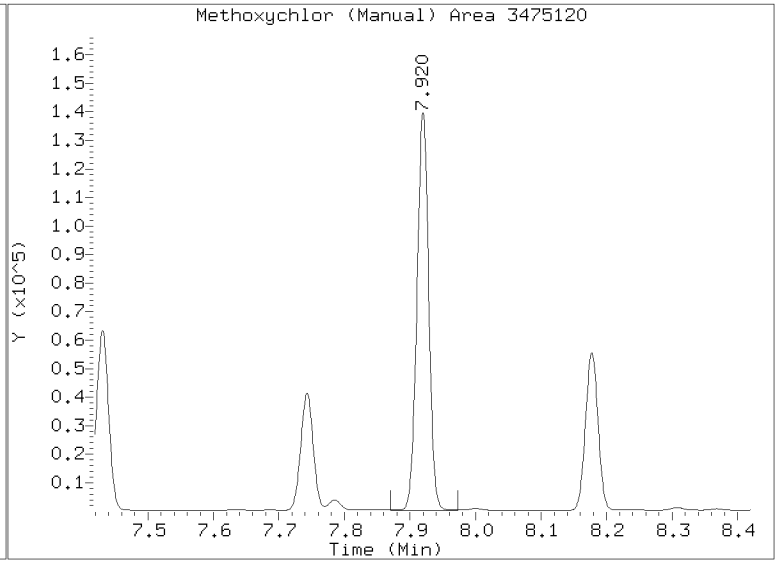
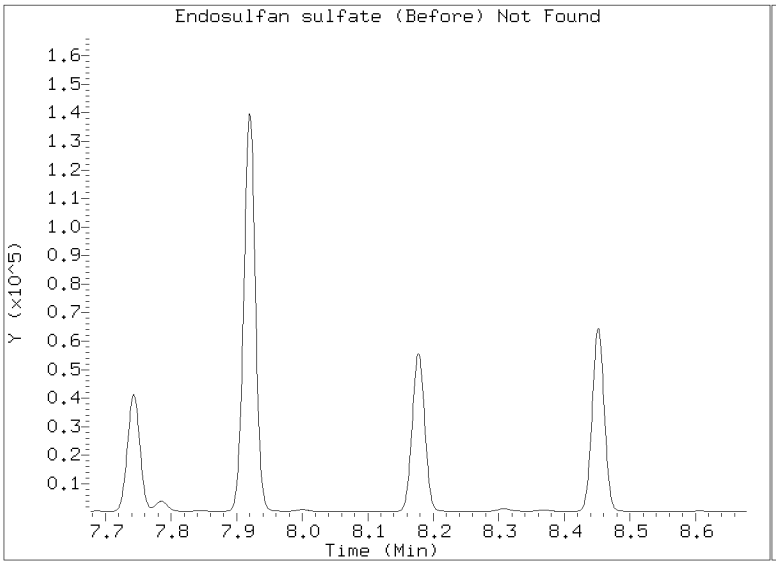
Report Date: 04/13/2023 12:57

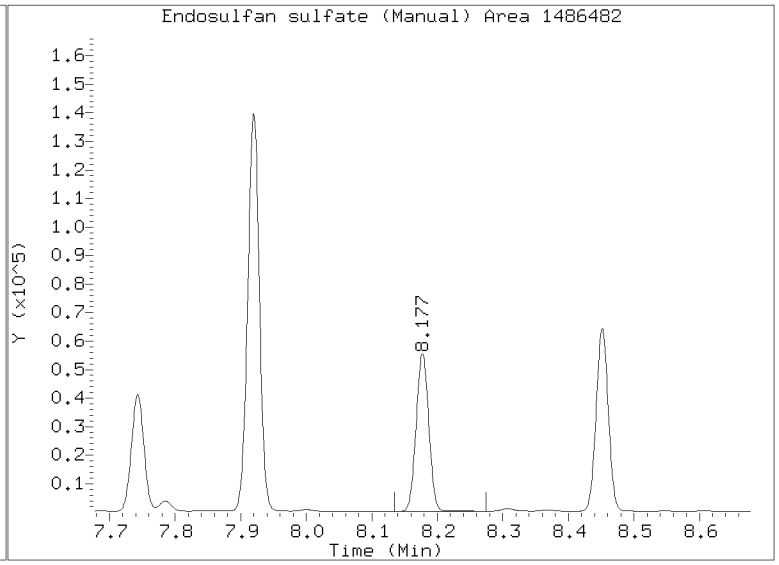






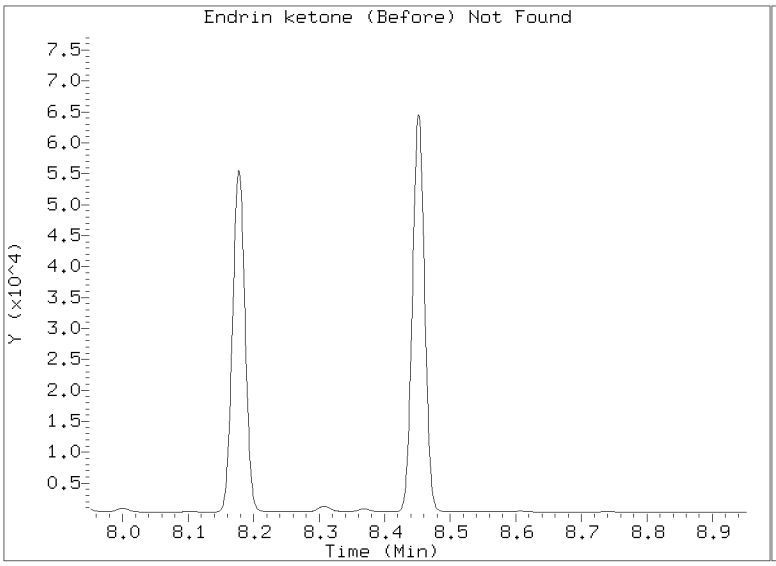


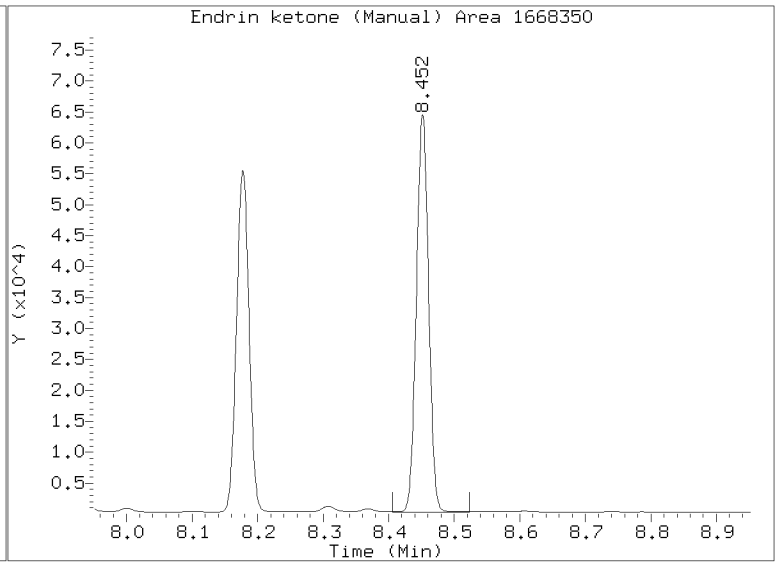


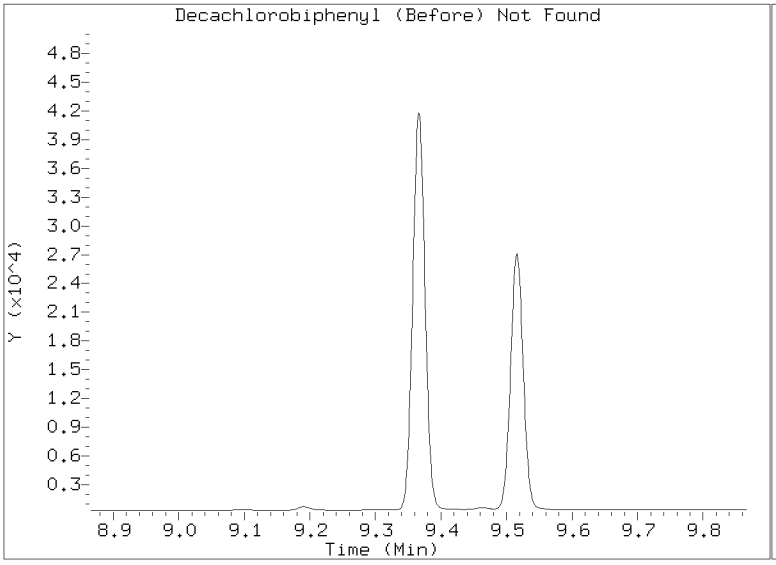


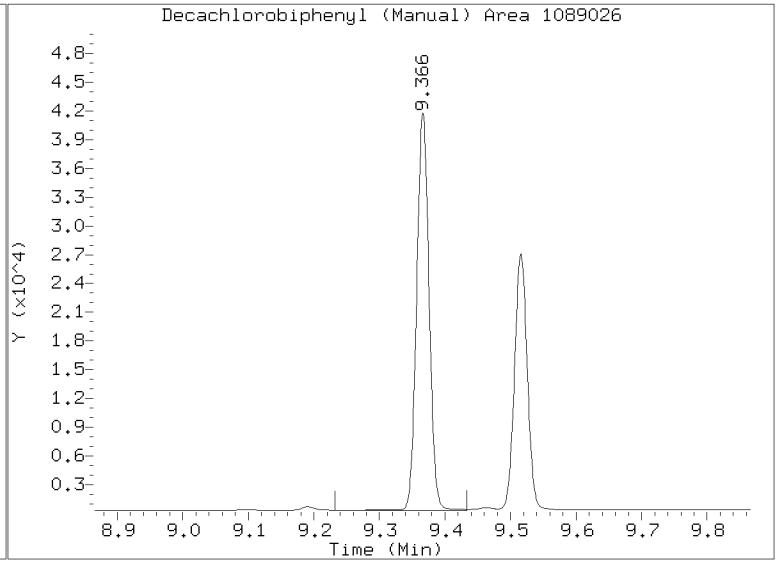
Manual Peak Adjustment Report, STX-CLP

Datafile: /20230412.b/23041210.D
Injection Date: 12-APR-2023 17:25
Lab ID:SEQ-CAL7 Client ID:
Report Date: 04/13/2023 12:57



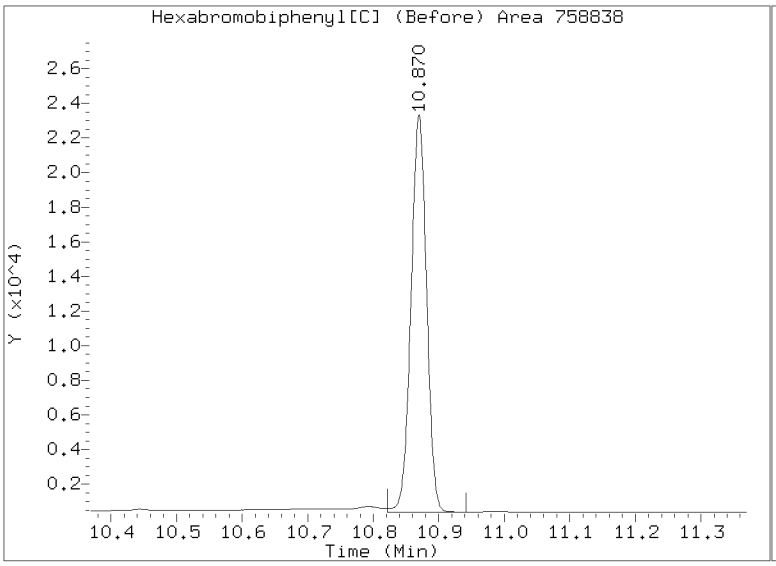


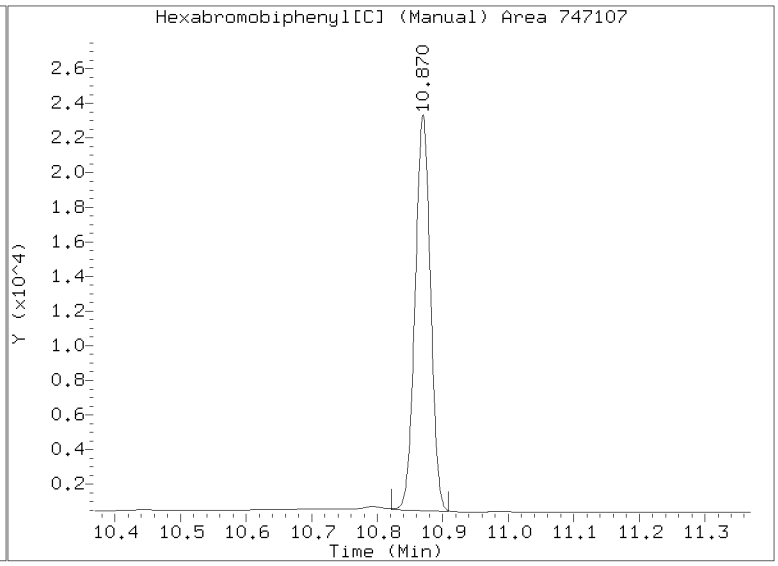




Manual Peak Adjustment Report, CLP-2

Datafile: /20230412.b/B20230412.b/23041210.D
Injection Date: 12-APR-2023 17:25
Lab ID:SEQ-CAL7 Client ID:





Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041211.D
Data file 2: /20230412.b/B20230412.b/23041211.D
Method: \20230412.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL8
Client ID:
Injection Date: 12-APR-2023 17:43
Report Date: 04/14/2023 09:40
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.010	0.001	32738	6.624	-0.000	38532	2.95	2.72	8.2	Oxychlordane
6.106	0.001	23612	6.922	0.001	29356	2.94	2.84	3.6	2,4-DDE
6.396	0.001	37432	7.039	-0.000	43568	2.87	2.75	4.3	trans-Nonachlor
6.682	0.001	21548	7.477	-0.000	26589	2.87	2.82	2.0	2,4-DDD
6.959	0.001	26208	7.799	-0.000	30271	2.90	2.81	3.2	2,4-DDT
7.112	0.001	38299	7.859	-0.000	44124	2.81	2.69	4.4	cis-Nonachlor
8.086	0.001	25731	9.101	0.000	26963	3.06	2.85	7.3	Mirex N
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

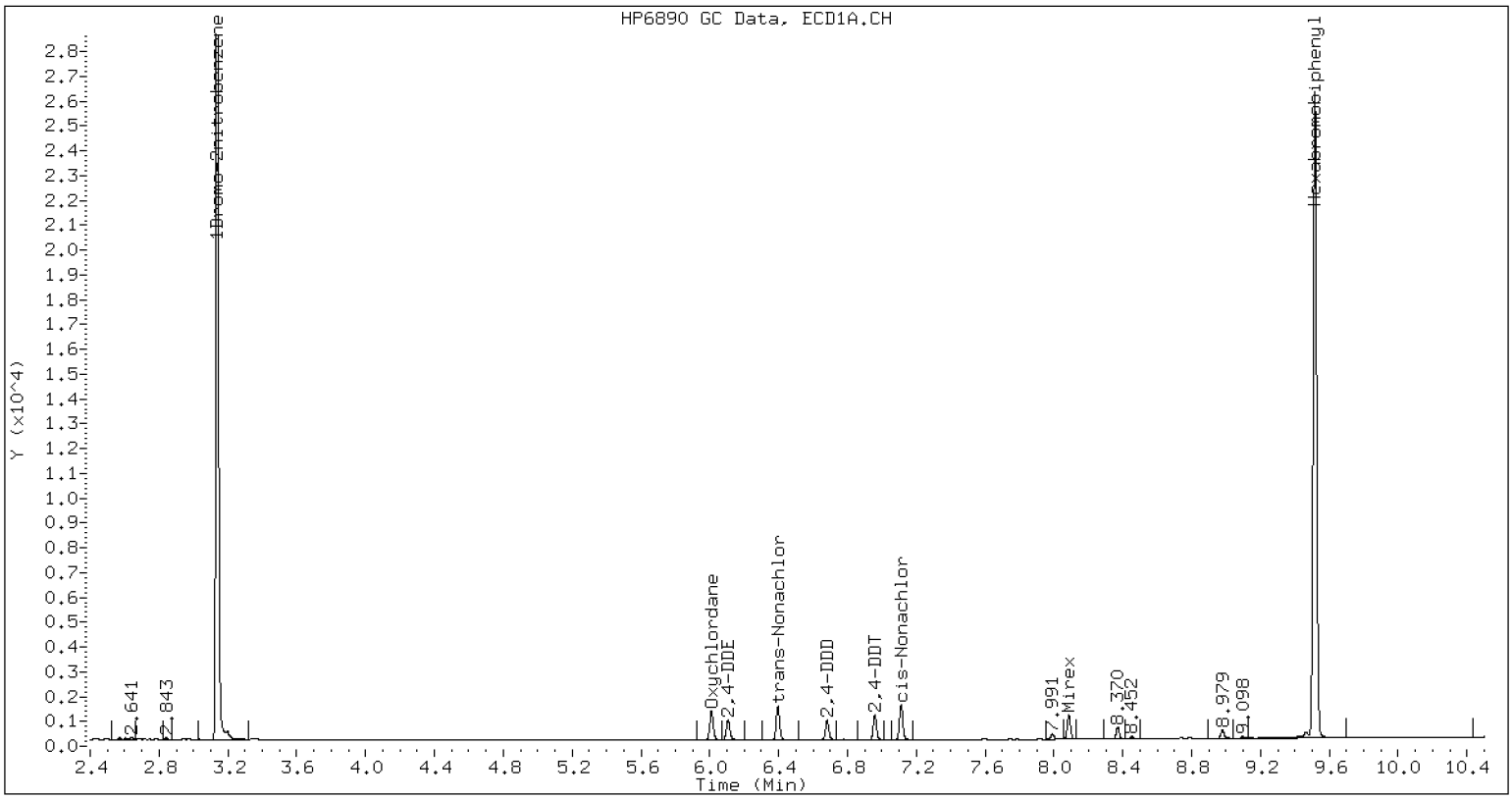
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	913523	5.7
Hexabromobiphenyl	663237	737594	11.2

Column 2

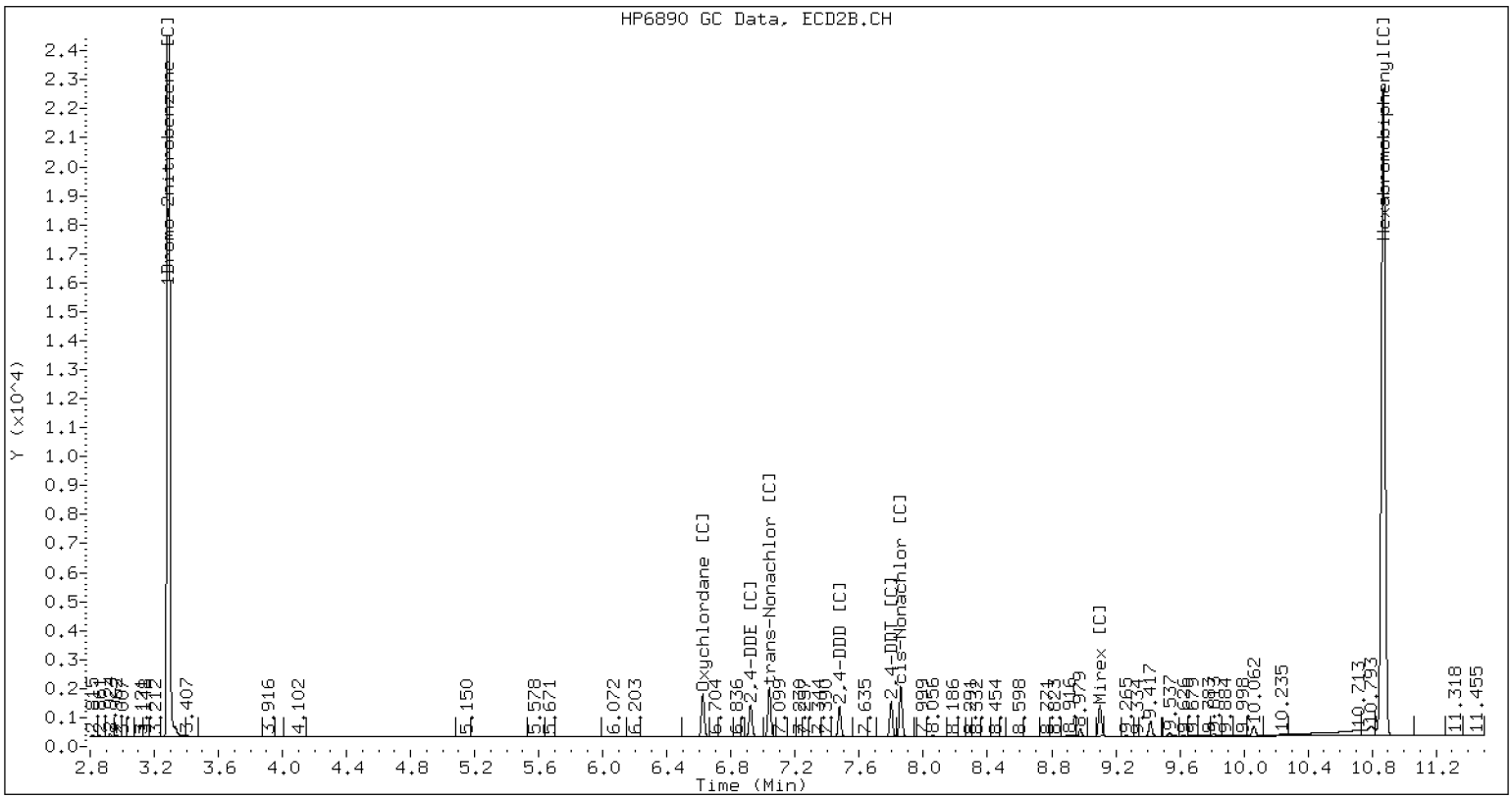
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1238562	-16.4
Hexabromobiphenyl	870561	753386	-13.5

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

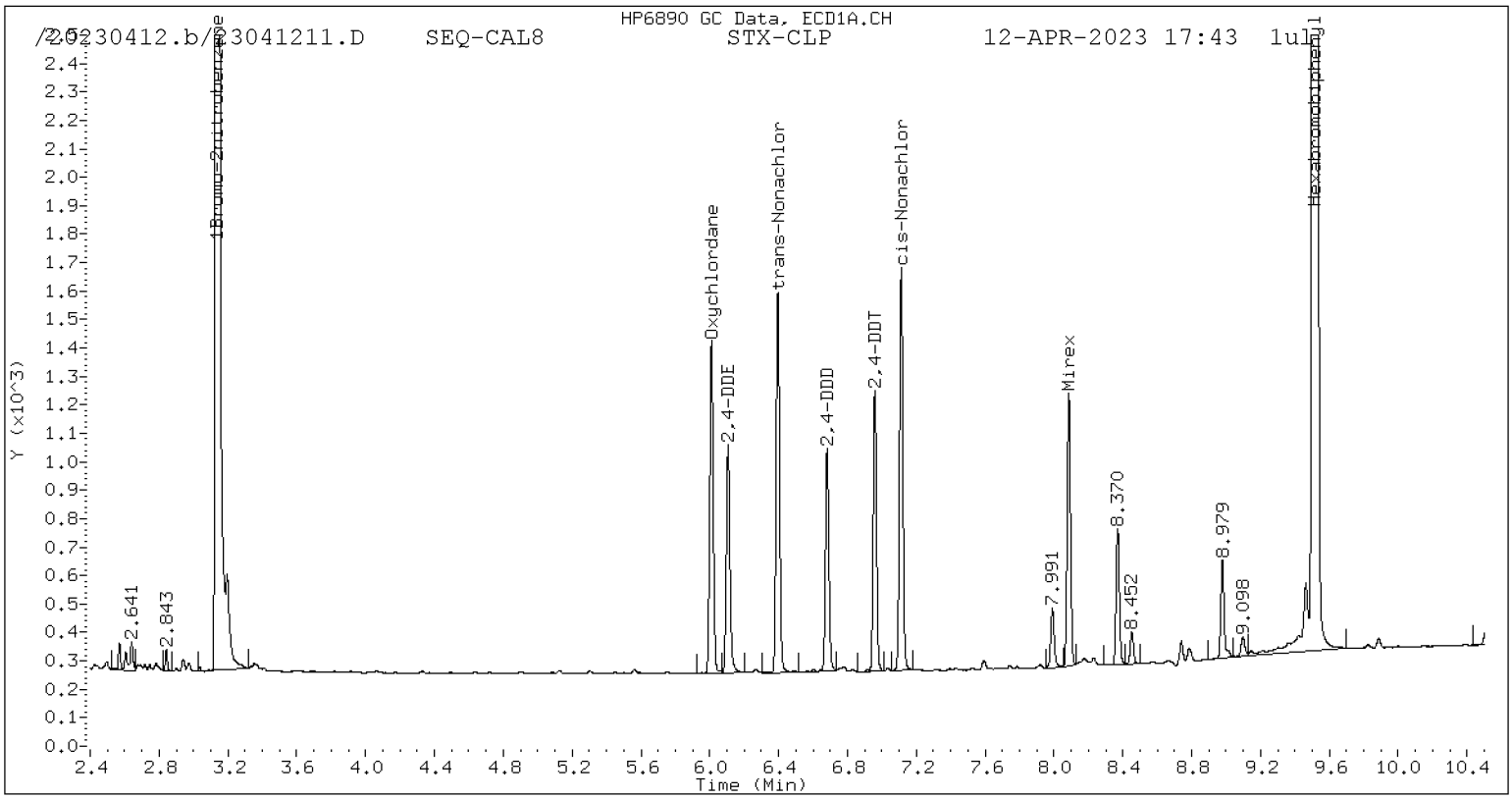
/20230412.b/23041211.D SEQ-CAL8 STX-CLP 12-APR-2023 17:43 1ul



/20230412.b/B20230412.b/23041211.D SEQ-CAL8 CLP2 12-APR-2023 17:43 1ul

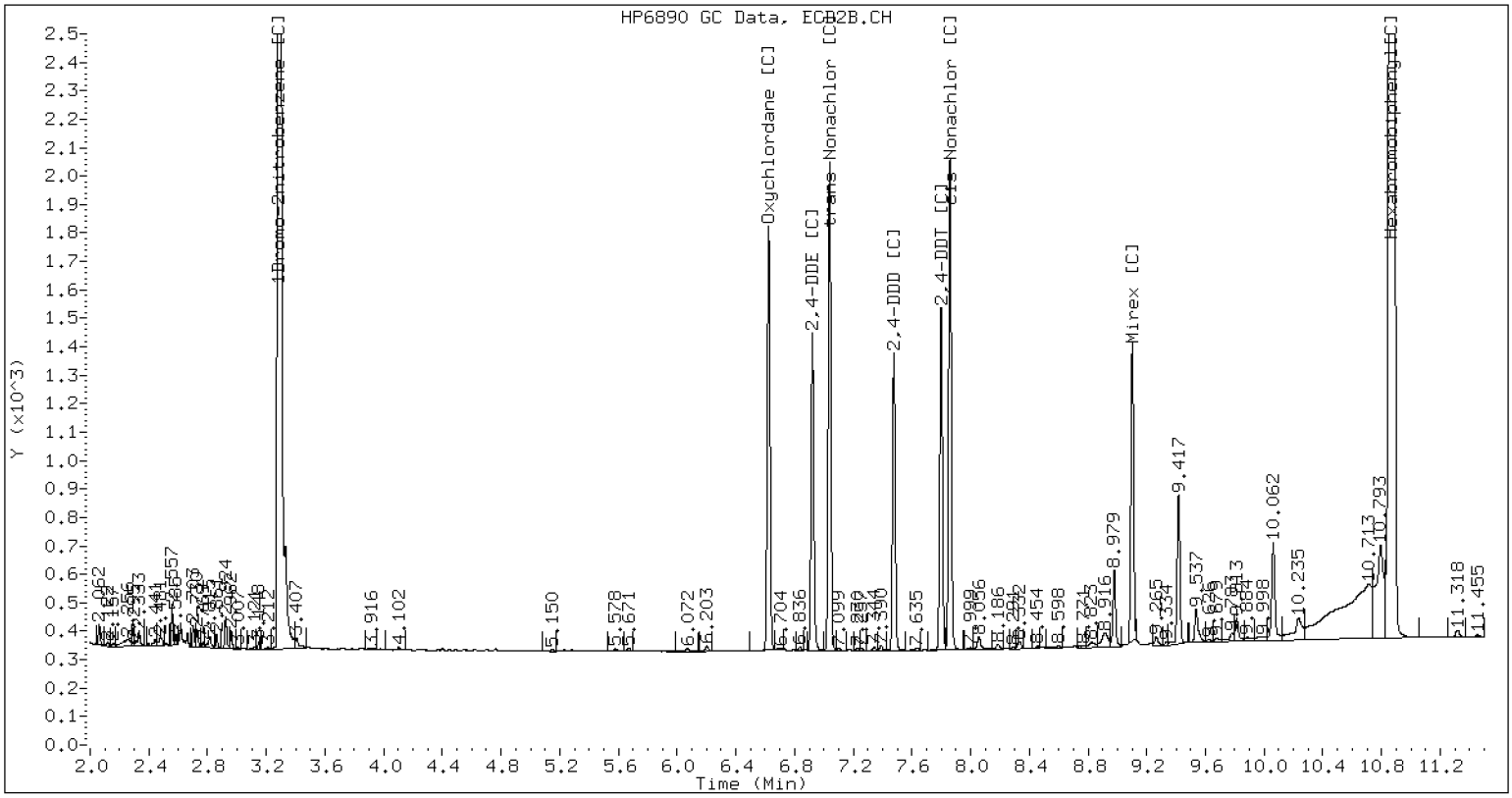


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

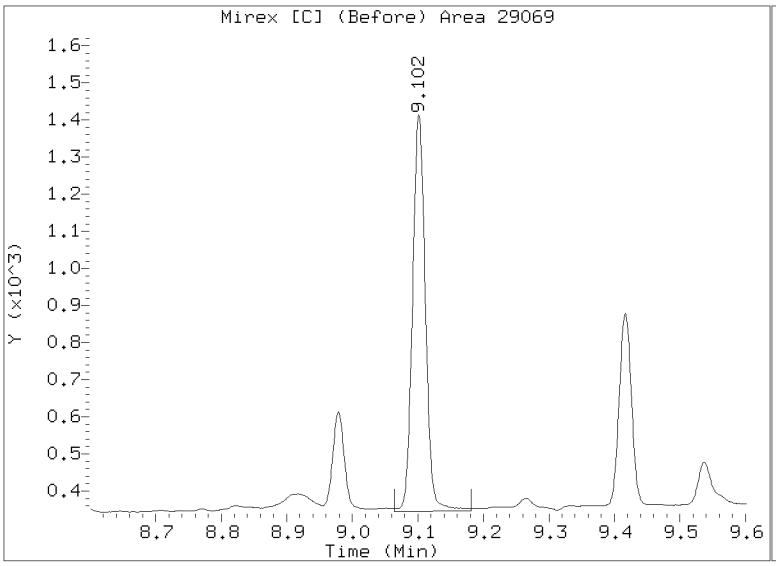
/20230412.b/B20230412.b/23041211.D SEQ-CAL8 CLP2

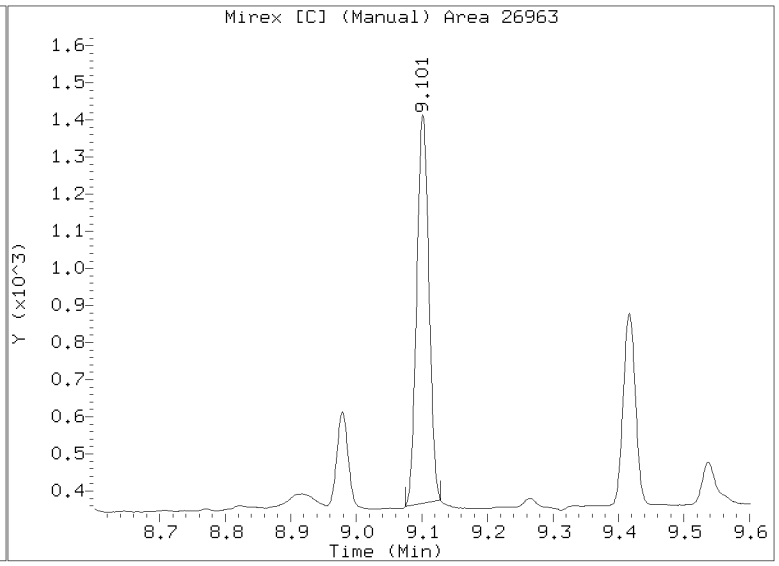


CLP-2 Manual Integration: YES

Manual Peak Adjustment Report, CLP-2

Datafile: /20230412.b/B20230412.b/23041211.D
Injection Date: 12-APR-2023 17:43
Lab ID:SEQ-CAL8 Client ID:





Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041212.D
Data file 2: /20230412.b/B20230412.b/23041212.D
Method: \20230412.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL9
Client ID:
Injection Date: 12-APR-2023 18:02
Report Date: 04/14/2023 09:40
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.010	0.001	60226	6.624	-0.000	77029	5.15	5.33	3.5	Oxychlordane
6.106	0.001	45692	6.921	0.000	57608	5.39	5.45	1.1	2,4-DDE
6.396	0.001	73158	7.038	-0.001	81213	5.33	4.94	7.6	trans-Nonachlor
6.682	0.001	41900	7.477	-0.000	51791	5.31	5.30	0.3	2,4-DDD
6.959	0.000	51131	7.798	-0.001	58989	5.37	5.28	1.8	2,4-DDT
7.112	0.000	75575	7.858	-0.001	87575	5.29	5.15	2.7	cis-Nonachlor
8.086	0.001	47358	9.101	0.000	53365	5.31	5.44	2.5	Mirex
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

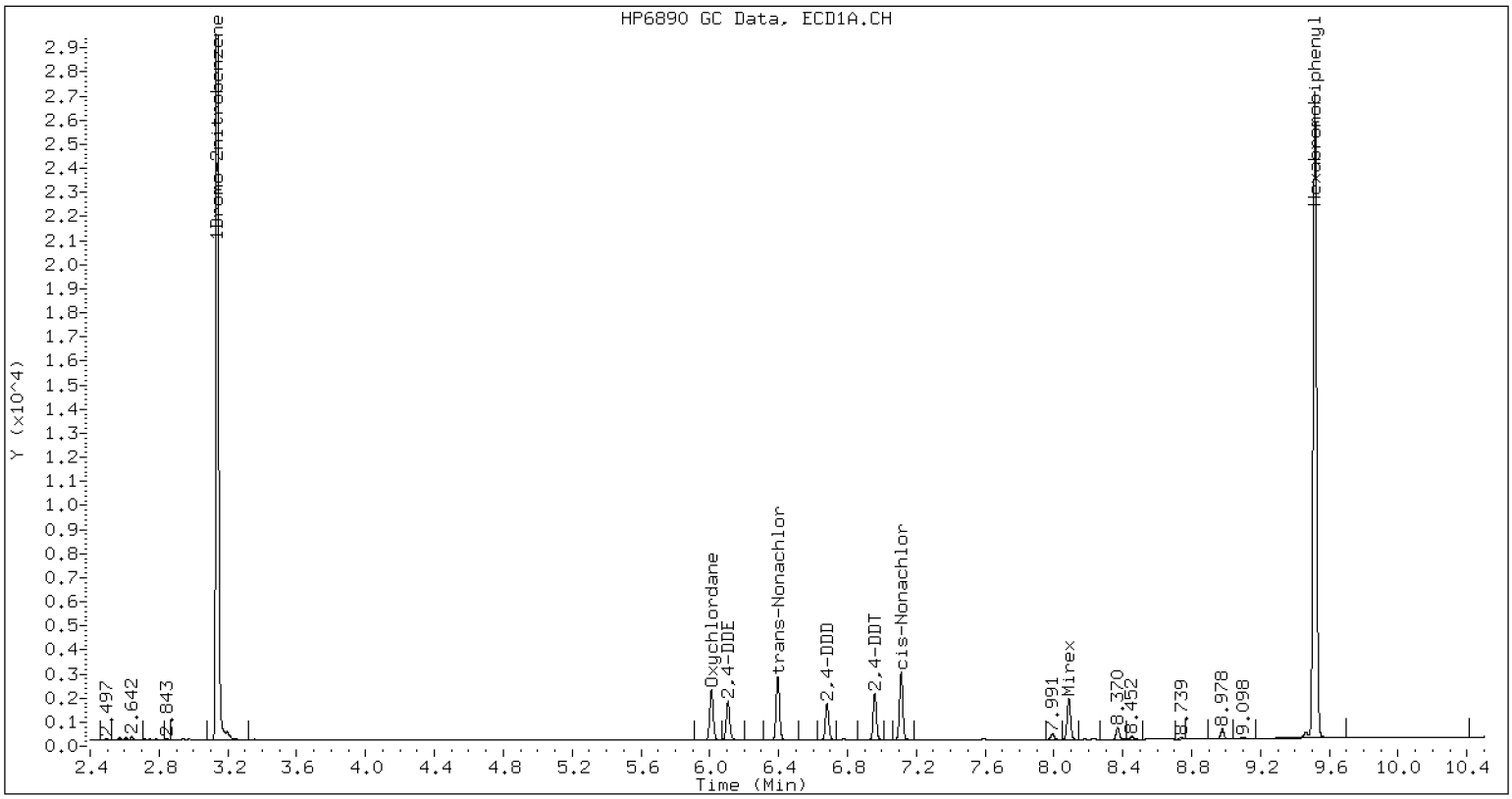
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	930904	7.7
Hexabromobiphenyl	663237	759389	14.5

Column 2

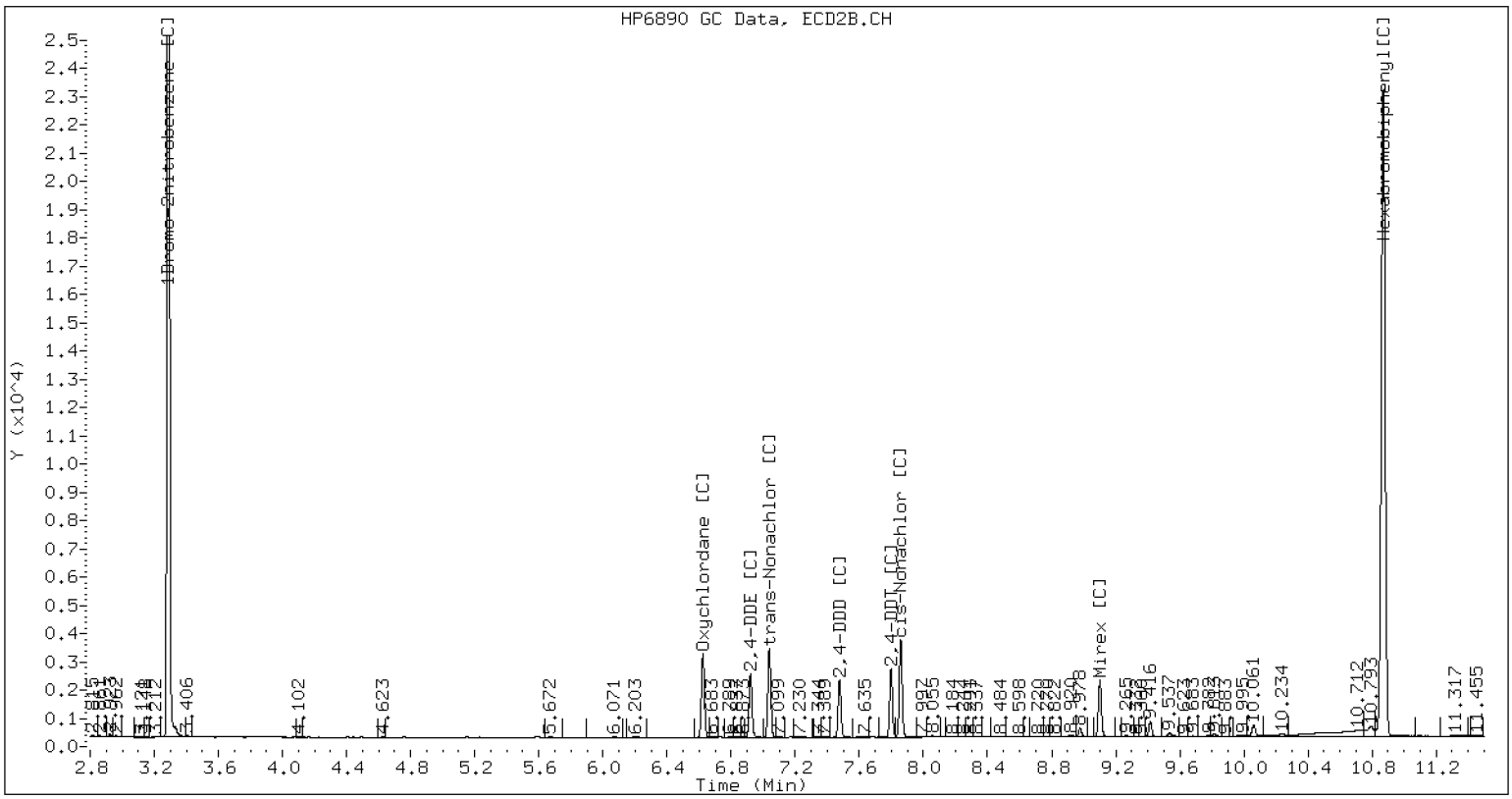
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1264392	-14.6
Hexabromobiphenyl	870561	780703	-10.3

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

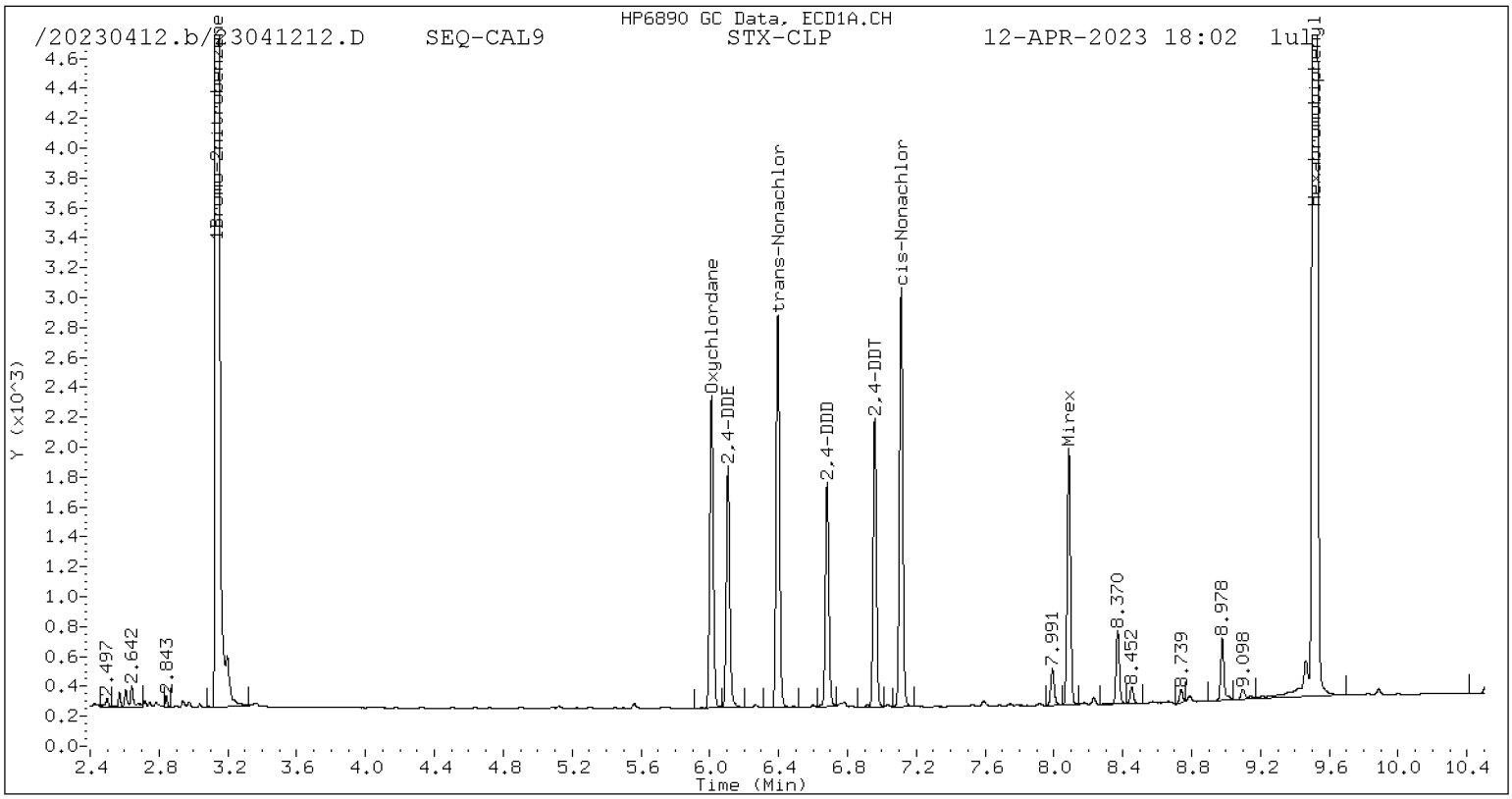
/20230412.b/23041212.D SEQ-CAL9 STX-CLP 12-APR-2023 18:02 1ul



/20230412.b/B20230412.b/23041212.D SEQ-CAL9 CLP2 12-APR-2023 18:02 1ul

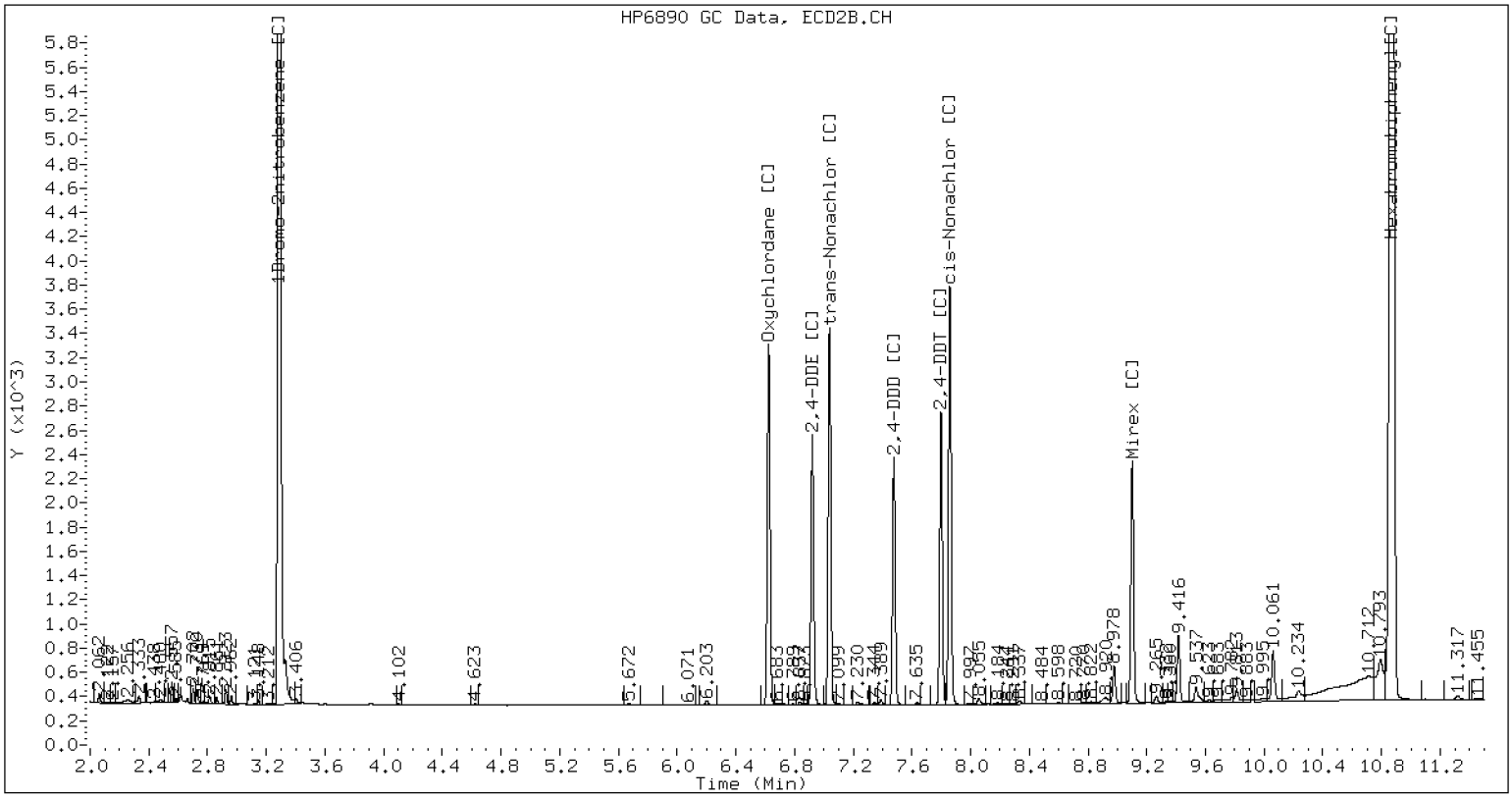


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041212.D SEQ-CAL9 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041213.D
Data file 2: /20230412.b/B20230412.b/23041213.D
Method: \20230412.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALA
Client ID:
Injection Date: 12-APR-2023 18:20
Report Date: 04/14/2023 09:40
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.009	-0.000	123278	6.624	0.000	151270	10.75	10.37	3.6	Oxychlordane
6.106	0.001	89835	6.921	0.000	112895	10.82	10.59	2.2	2,4-DDE
6.396	0.001	141201	7.039	-0.000	170866	10.50	10.56	0.6	trans-Nonachlor
6.682	0.001	83598	7.477	-0.000	100942	10.82	10.49	3.1	2,4-DDD
6.959	0.000	99988	7.799	-0.000	115070	10.72	10.46	2.4	2,4-DDT
7.112	0.000	146847	7.859	0.000	173382	10.50	10.37	1.3	cis-Nonachlor
8.086	0.001	92734	9.101	0.000	100630	10.60	10.42	1.7	Mirex
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

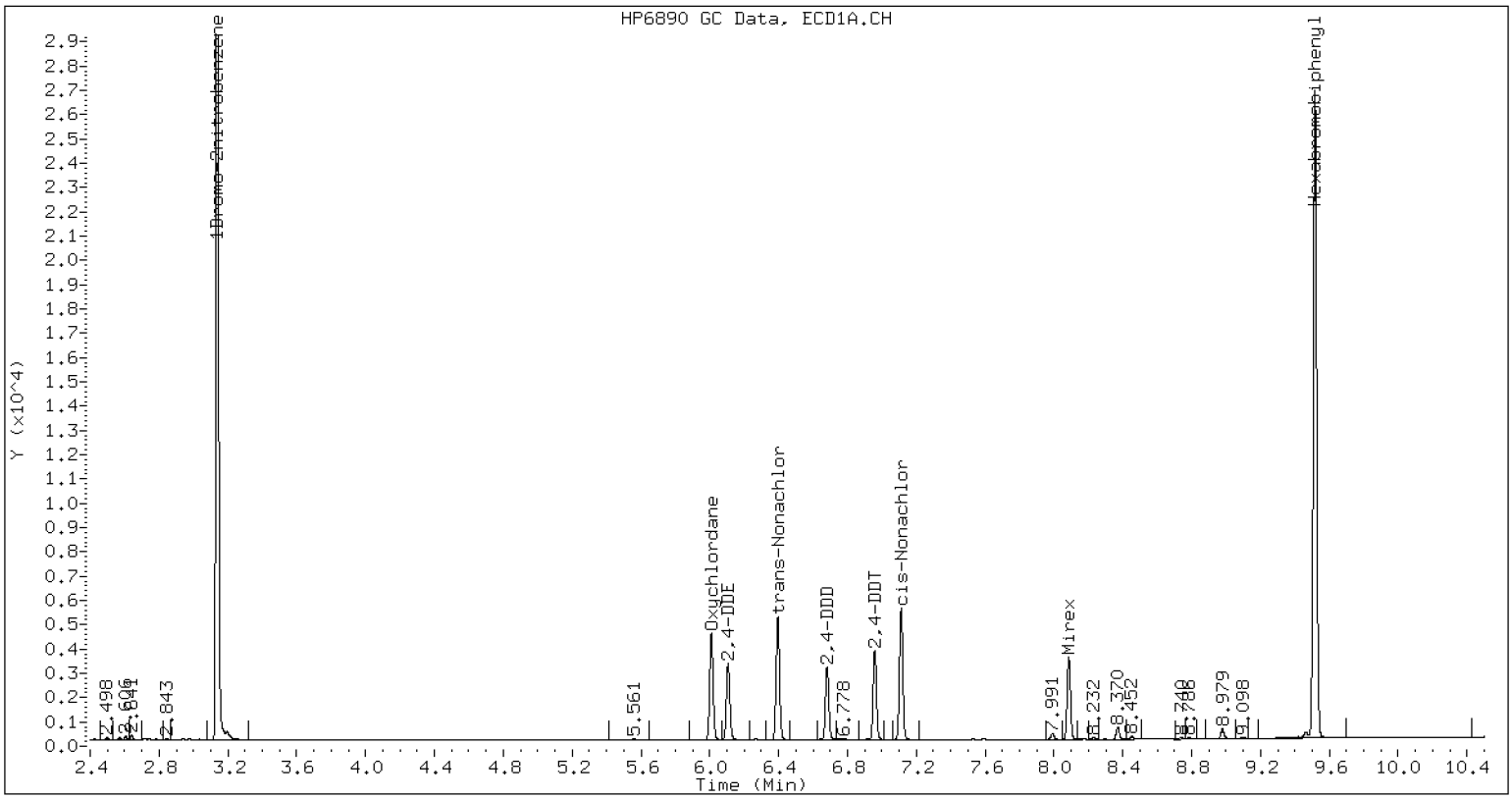
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	924798	7.0
Hexabromobiphenyl	663237	744140	12.2

Column 2

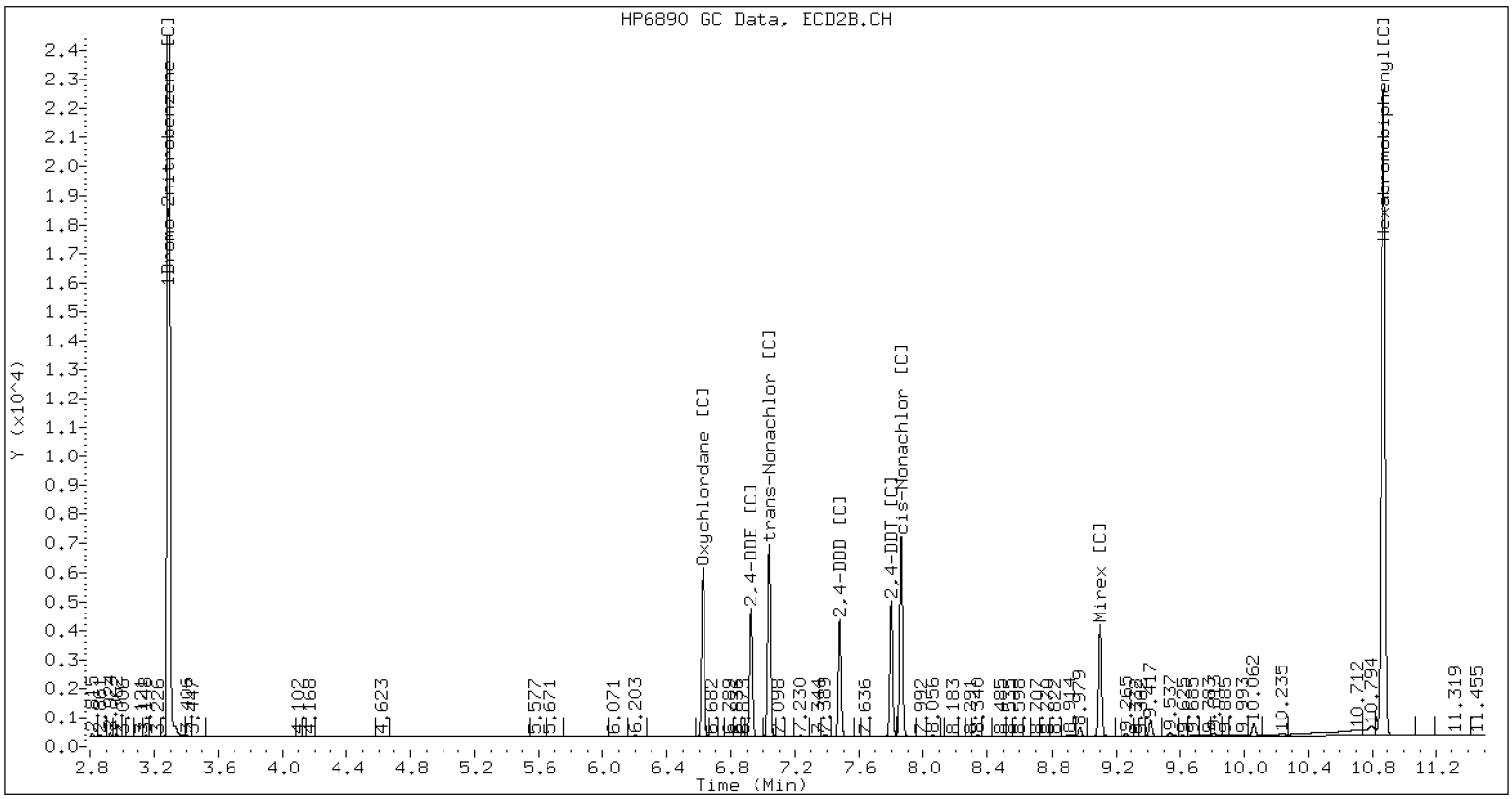
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1276044	-13.8
Hexabromobiphenyl	870561	768340	-11.7

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

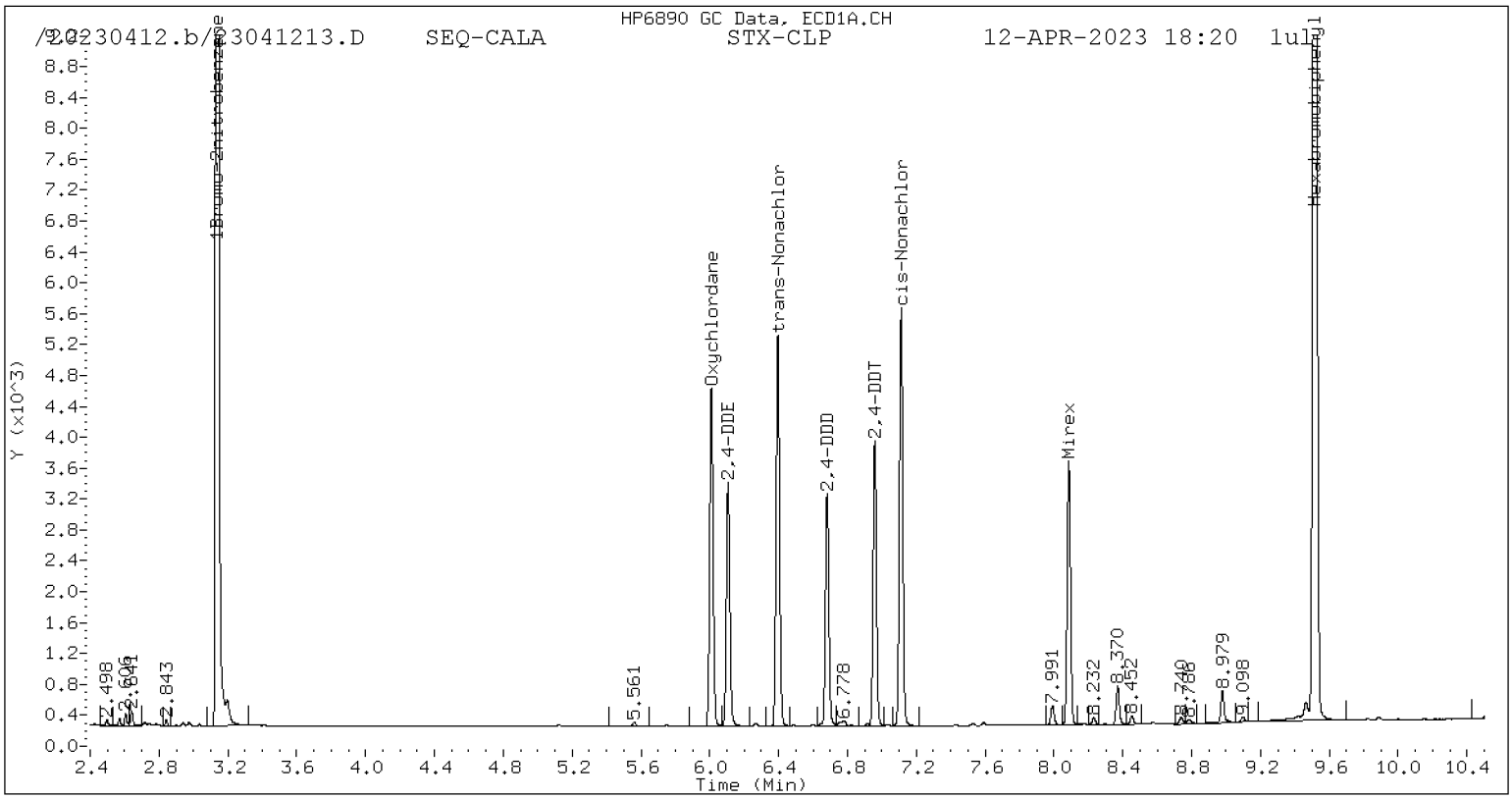
/20230412.b/23041213.D SEQ-CALA STX-CLP 12-APR-2023 18:20 1ul



/20230412.b/B20230412.b/23041213.D SEQ-CALA CLP2 12-APR-2023 18:20 1ul

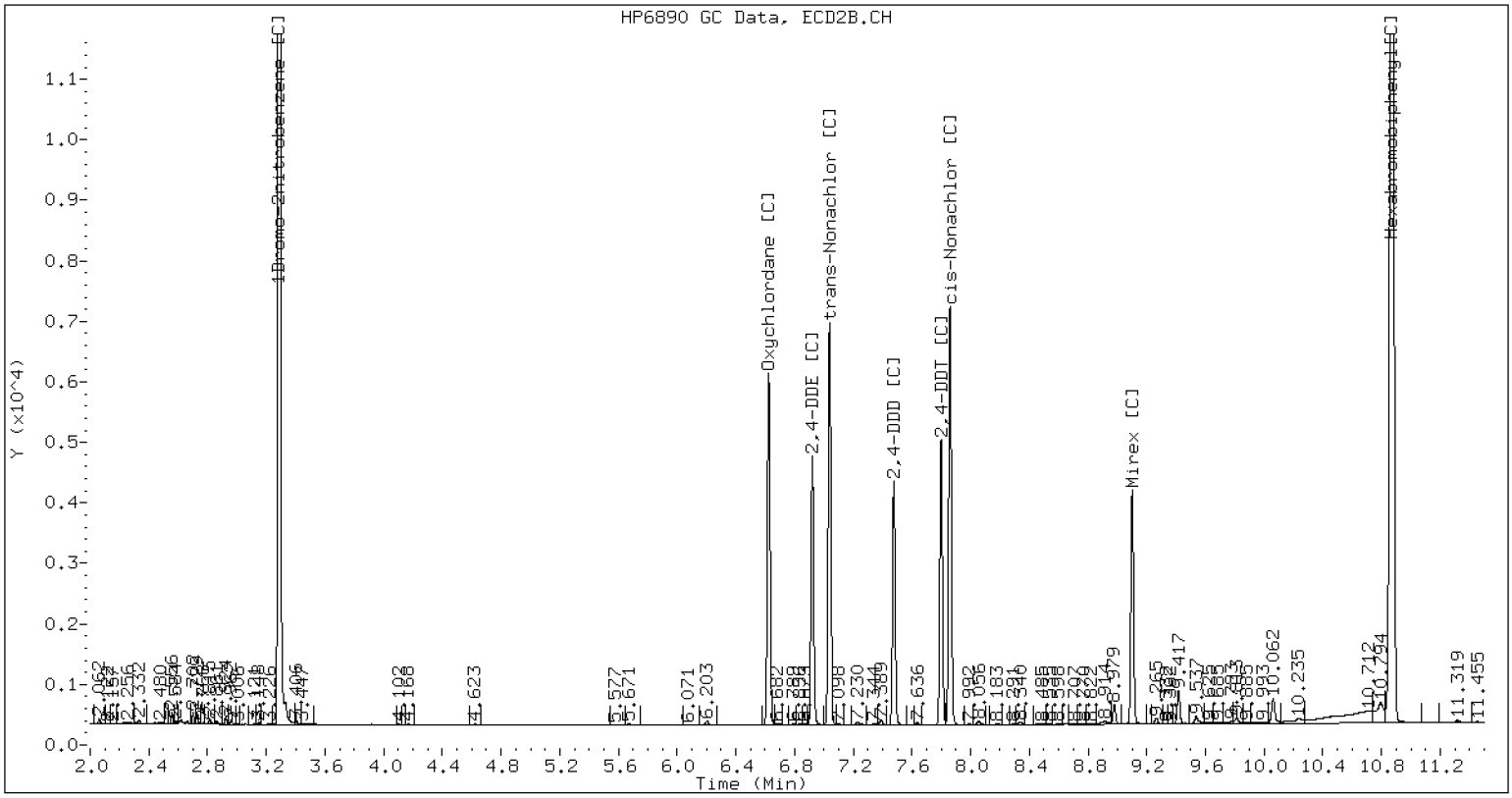


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041213.D SEQ-CALA CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041214.D
Data file 2: /20230412.b/B20230412.b/23041214.D
Method: \20230412.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALB
Client ID:
Injection Date: 12-APR-2023 18:38
Report Date: 04/14/2023 09:40
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.010	0.000	234579	6.624	0.000	293794	20.52	20.63	0.5	Oxychlordane
6.106	0.001	170299	6.922	0.001	216226	20.59	20.78	0.9	2,4-DDE
6.396	0.001	271524	7.039	0.000	333381	20.26	20.64	1.8	trans-Nonachlor
6.682	0.000	158357	7.476	-0.001	195047	20.57	20.30	1.3	2,4-DDD
6.960	0.001	190595	7.799	-0.000	223003	20.50	20.30	1.0	2,4-DDT
7.112	0.001	283023	7.859	0.000	341543	20.31	20.45	0.7	cis-Nonachlor
8.086	0.000	174624	9.101	0.000	190241	20.04	19.74	1.5	Mirex
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			10.309	0.003	2954	0.00	0.32	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

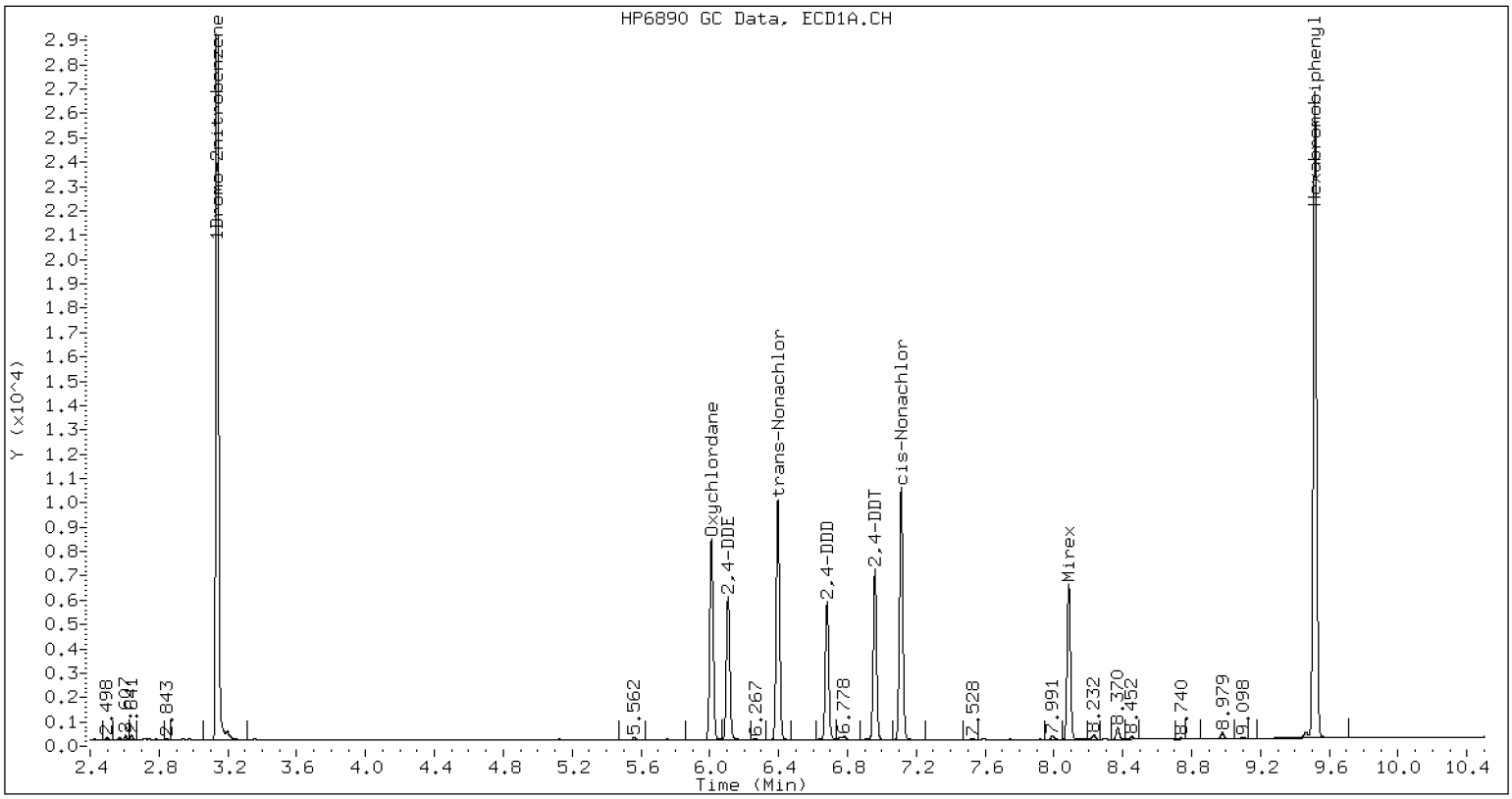
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	899601	4.1
Hexabromobiphenyl	663237	741497	11.8

Column 2

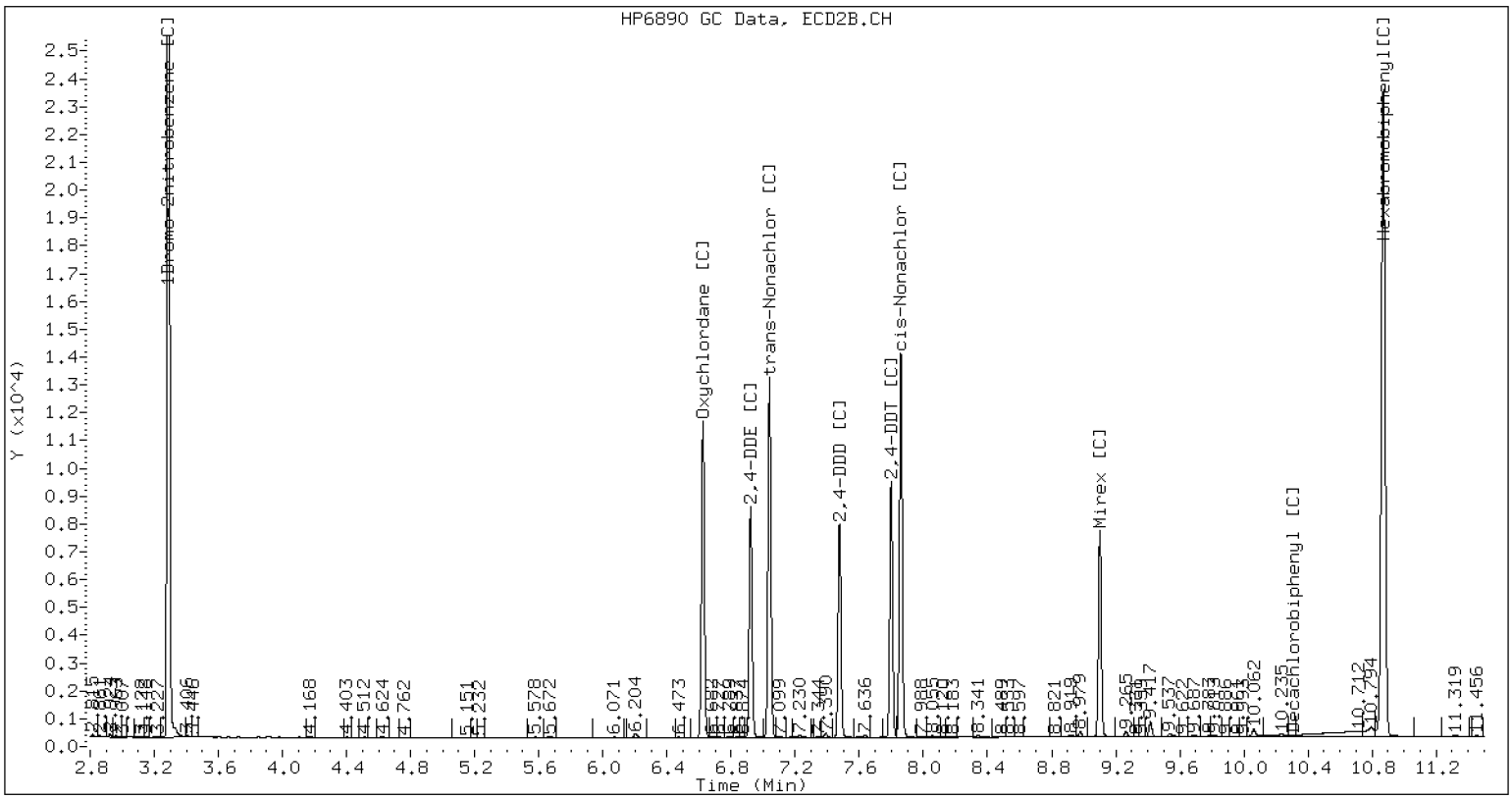
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1245547	-15.9
Hexabromobiphenyl	870561	767183	-11.9

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

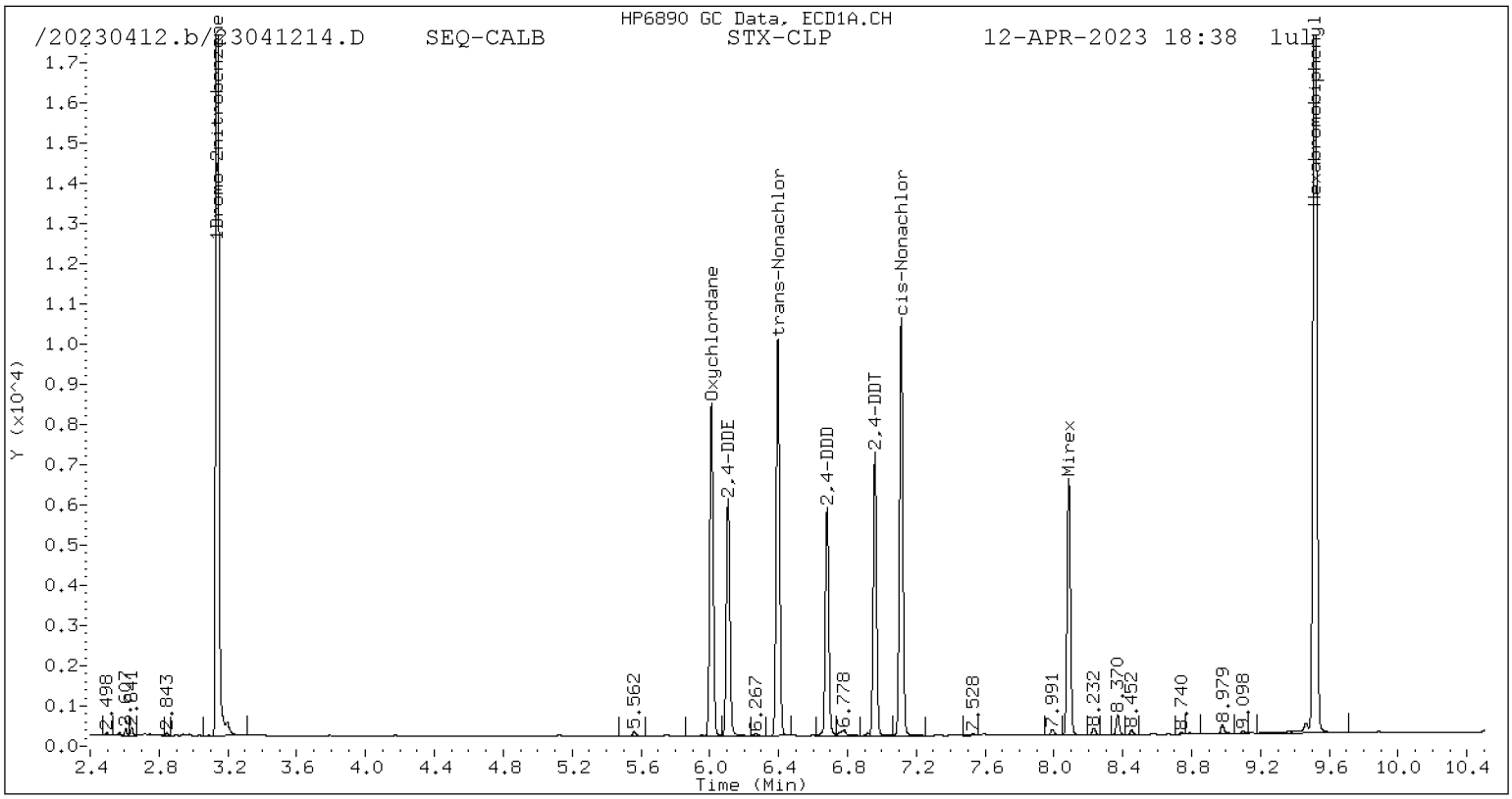
/20230412.b/23041214.D SEQ-CALB STX-CLP 12-APR-2023 18:38 1ul



/20230412.b/B20230412.b/23041214.D SEQ-CALB CLP2 12-APR-2023 18:38 1ul

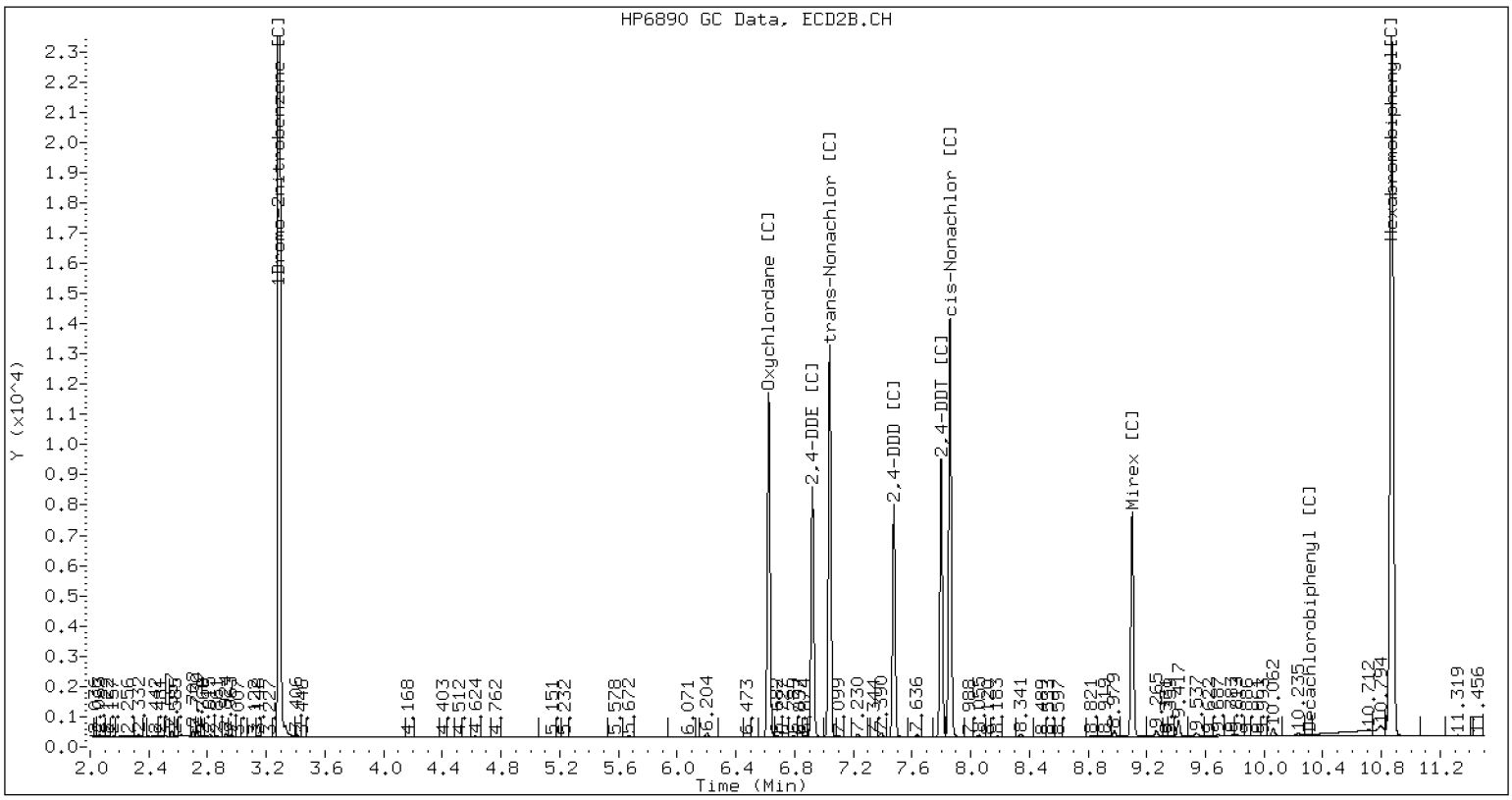


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041214.D SEQ-CALB CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041215.D
Data file 2: /20230412.b/B20230412.b/23041215.D
Method: \20230412.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALC
Client ID:
Injection Date: 12-APR-2023 18:57
Report Date: 04/14/2023 09:40
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.010	0.001	441791	6.624	0.000	561341	39.12	39.67	1.4	Oxychlordane
6.106	0.001	318110	6.921	0.000	406232	38.93	39.30	0.9	2,4-DDE
6.396	0.001	517172	7.039	-0.000	640936	39.06	40.16	2.8	trans-Nonachlor
6.681	-0.000	297604	7.476	-0.001	372629	39.12	39.26	0.3	2,4-DDD
6.959	0.001	358310	7.799	-0.000	427178	39.01	39.36	0.9	2,4-DDT
7.112	0.000	540011	7.859	-0.000	659204	39.22	39.95	1.9	cis-Nonachlor
8.086	0.000	328833	9.101	-0.000	364657	38.19	38.29	0.3	Mirex
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			10.309	0.003	2755	0.00	0.30	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

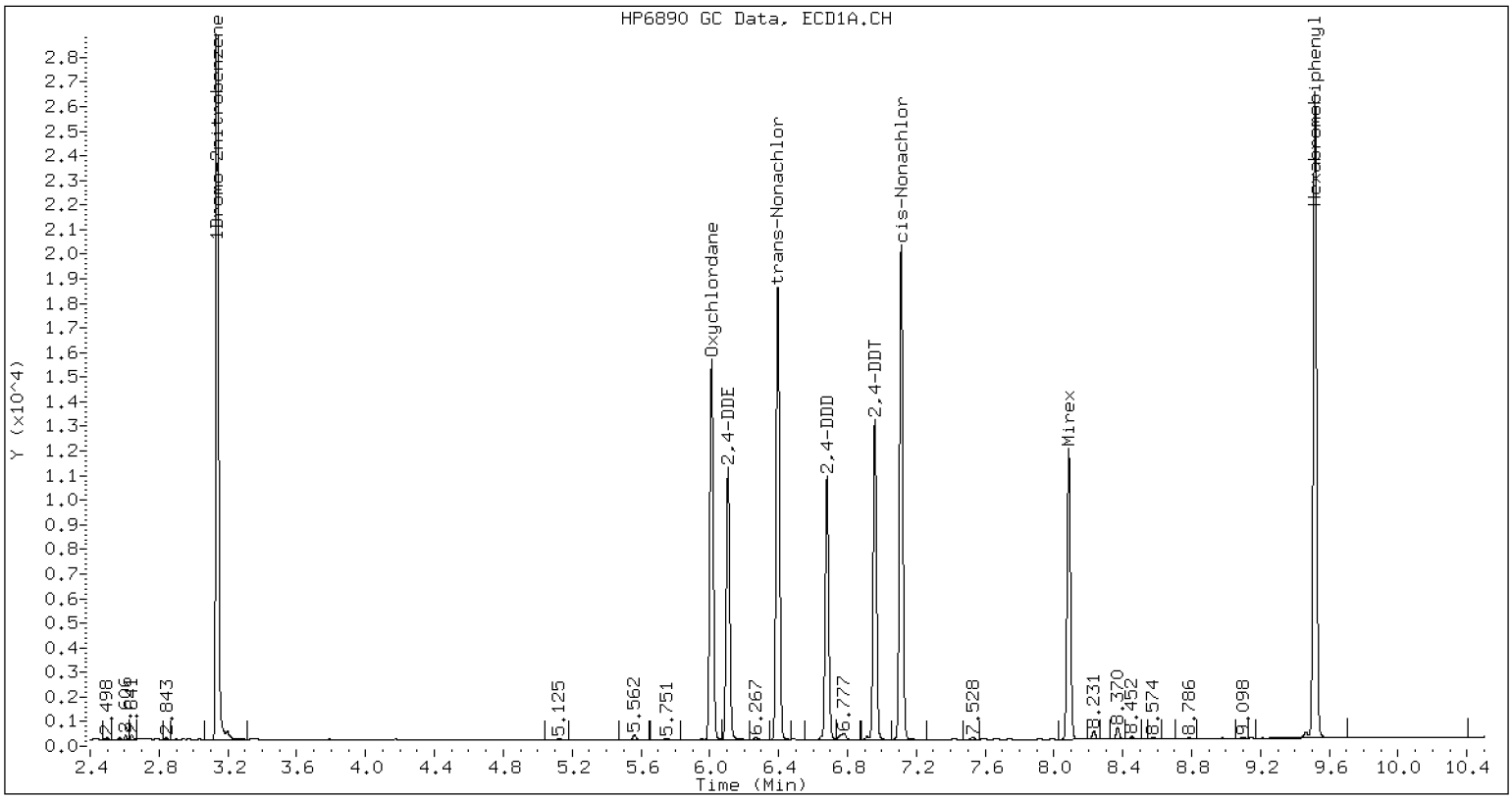
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	887506	2.7
Hexabromobiphenyl	663237	732612	10.5

Column 2

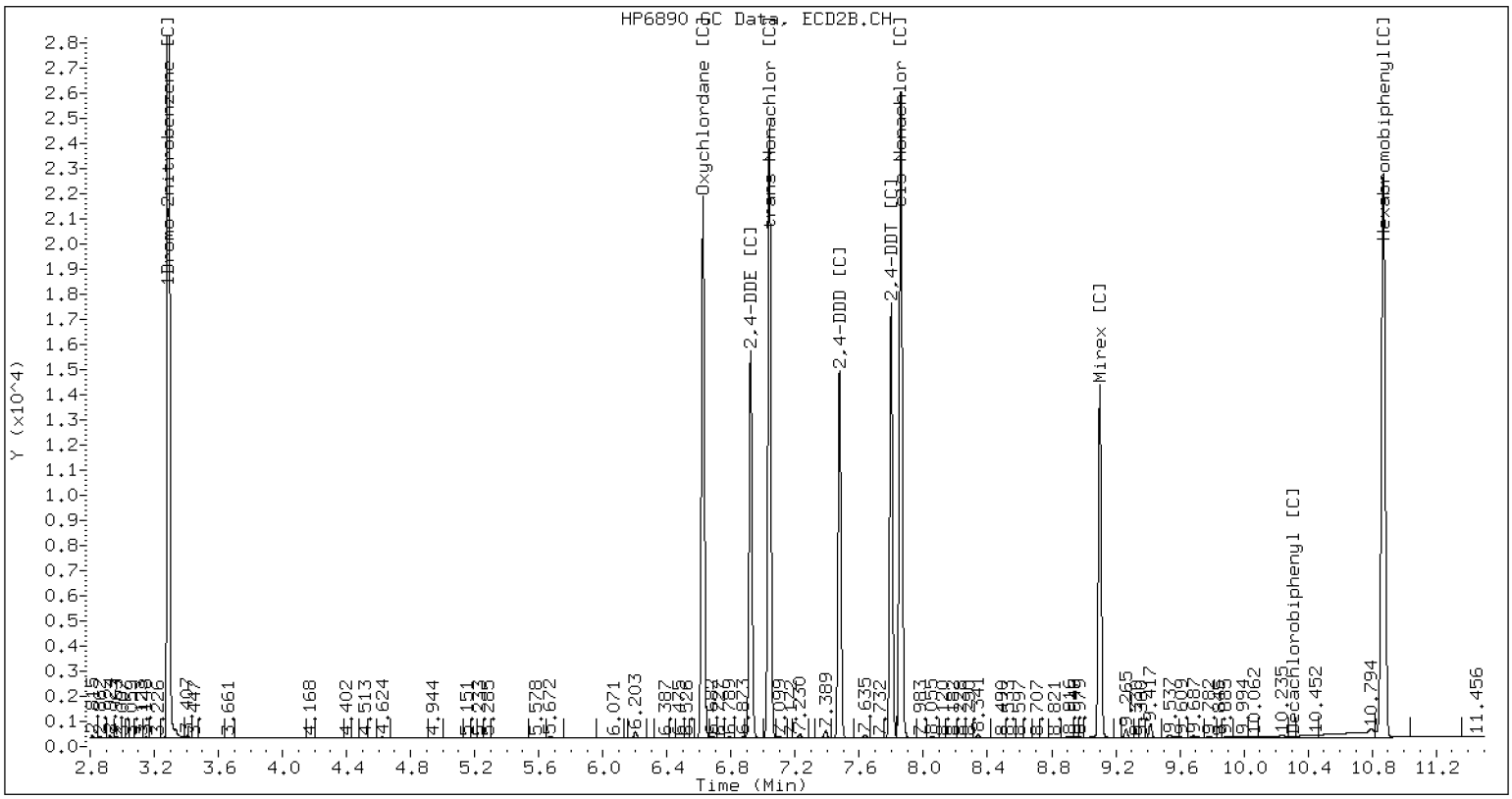
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1237559	-16.4
Hexabromobiphenyl	870561	757937	-12.9

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

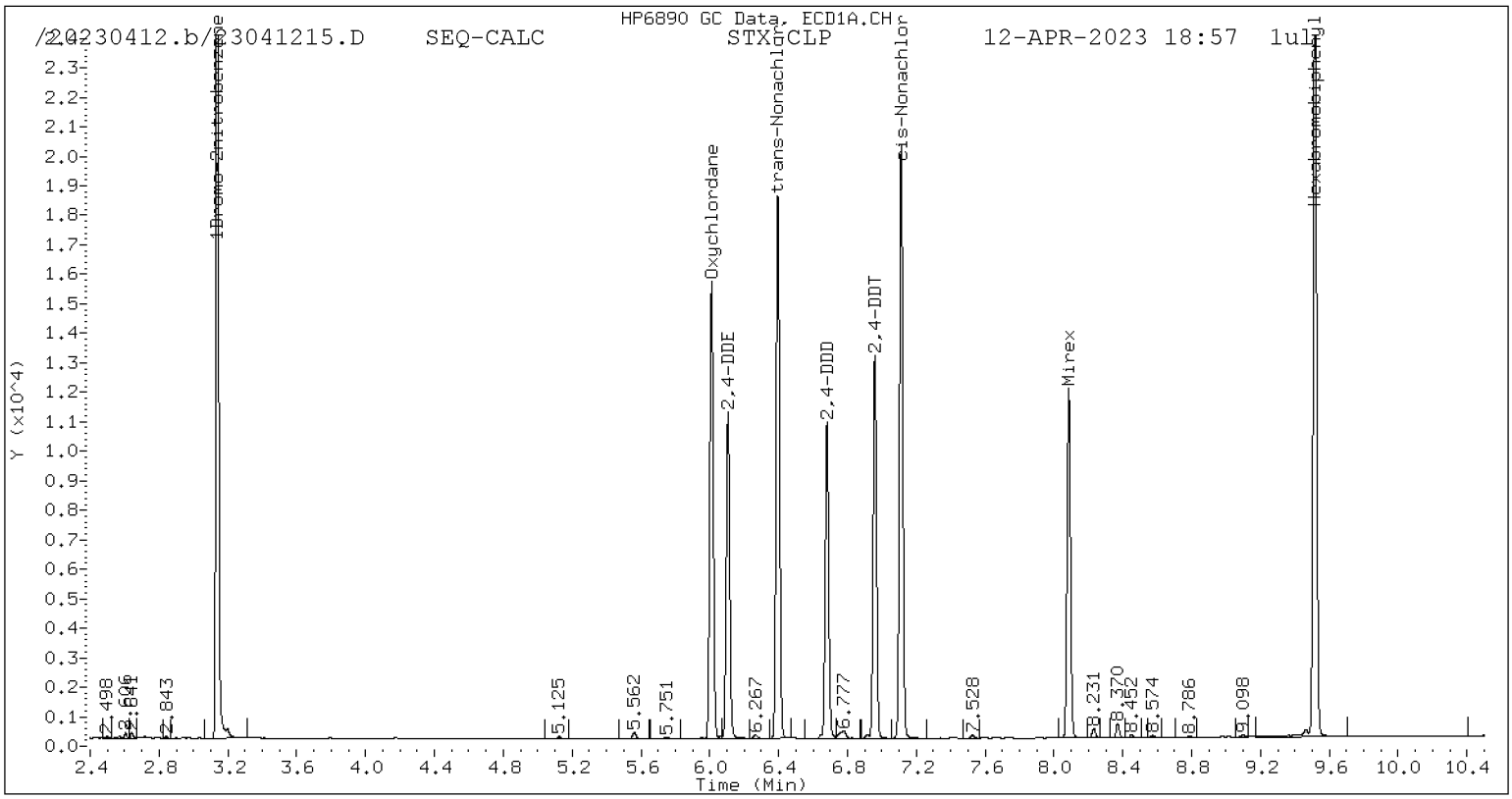
/20230412.b/23041215.D SEQ-CALC STX-CLP 12-APR-2023 18:57 1ul



/20230412.b/B20230412.b/23041215.D SEQ-CALC CLP2 12-APR-2023 18:57 1ul

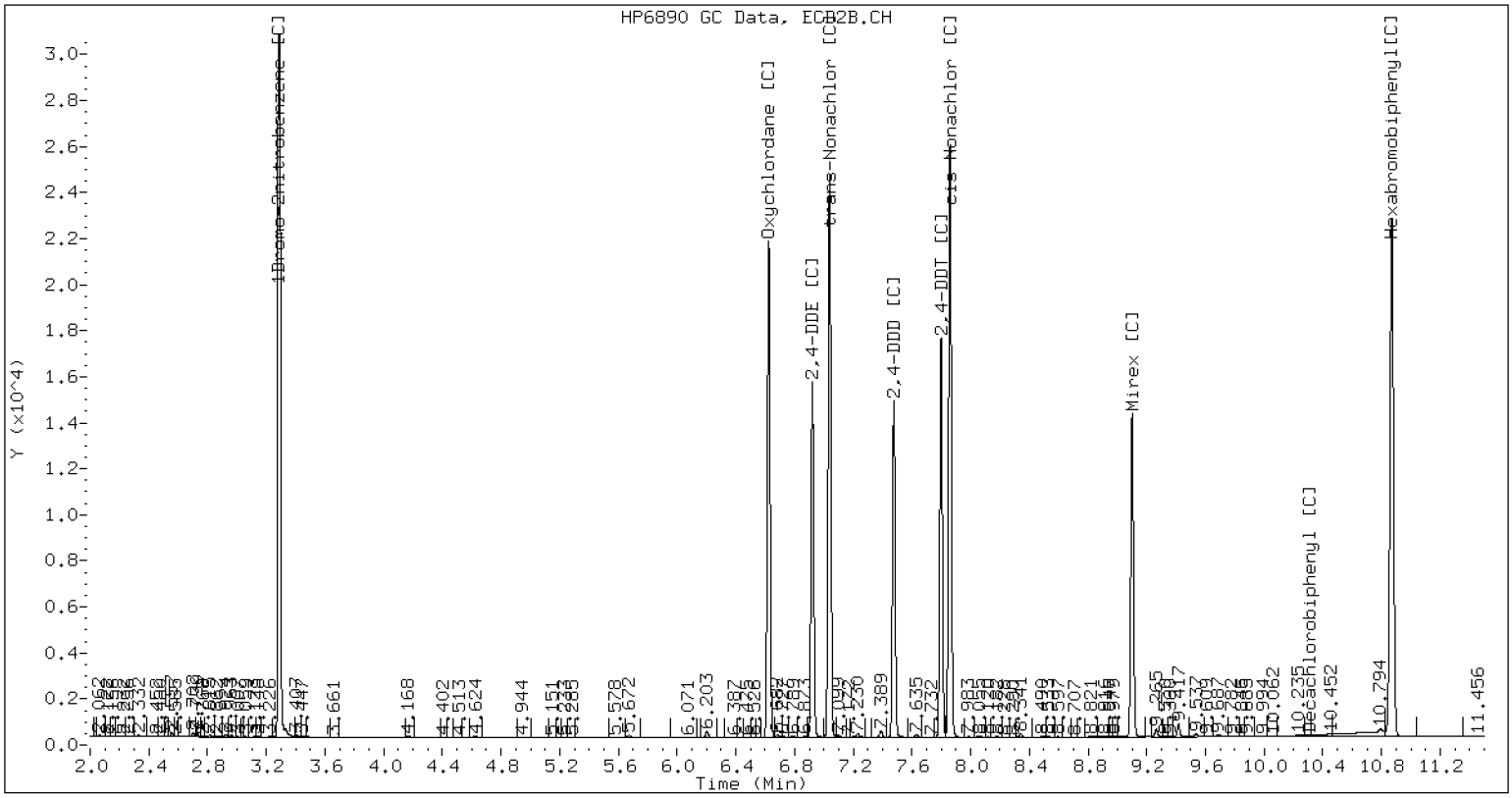


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041215.D SEQ-CALC CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041216.D
Data file 2: /20230412.b/B20230412.b/23041216.D
Method: \20230412.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALD
Client ID:
Injection Date: 12-APR-2023 19:15
Report Date: 04/14/2023 09:40
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.010	0.000	817171	6.624	-0.000	1054911	72.77	74.15	1.9	Oxychlordane
6.106	0.001	580973	6.921	-0.000	743589	71.50	71.54	0.1	2,4-DDE
6.395	0.001	968759	7.039	-0.001	1211298	73.58	76.18	3.5	trans-Nonachlor
6.681	-0.000	548708	7.476	-0.001	698482	72.54	73.85	1.8	2,4-DDD
6.958	-0.000	660572	7.798	-0.001	805720	72.32	74.50	3.0	2,4-DDT
7.112	-0.000	1017099	7.858	-0.001	1256322	74.28	76.41	2.8	cis-Nonachlor
8.086	0.000	616577	9.101	0.000	697240	72.01	73.47	2.0	Mirex
----			4.135	-0.001	186	0.00	0.01	---	Tetrachloro-m-xylene
----			10.309	0.003	3002	0.00	0.33	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

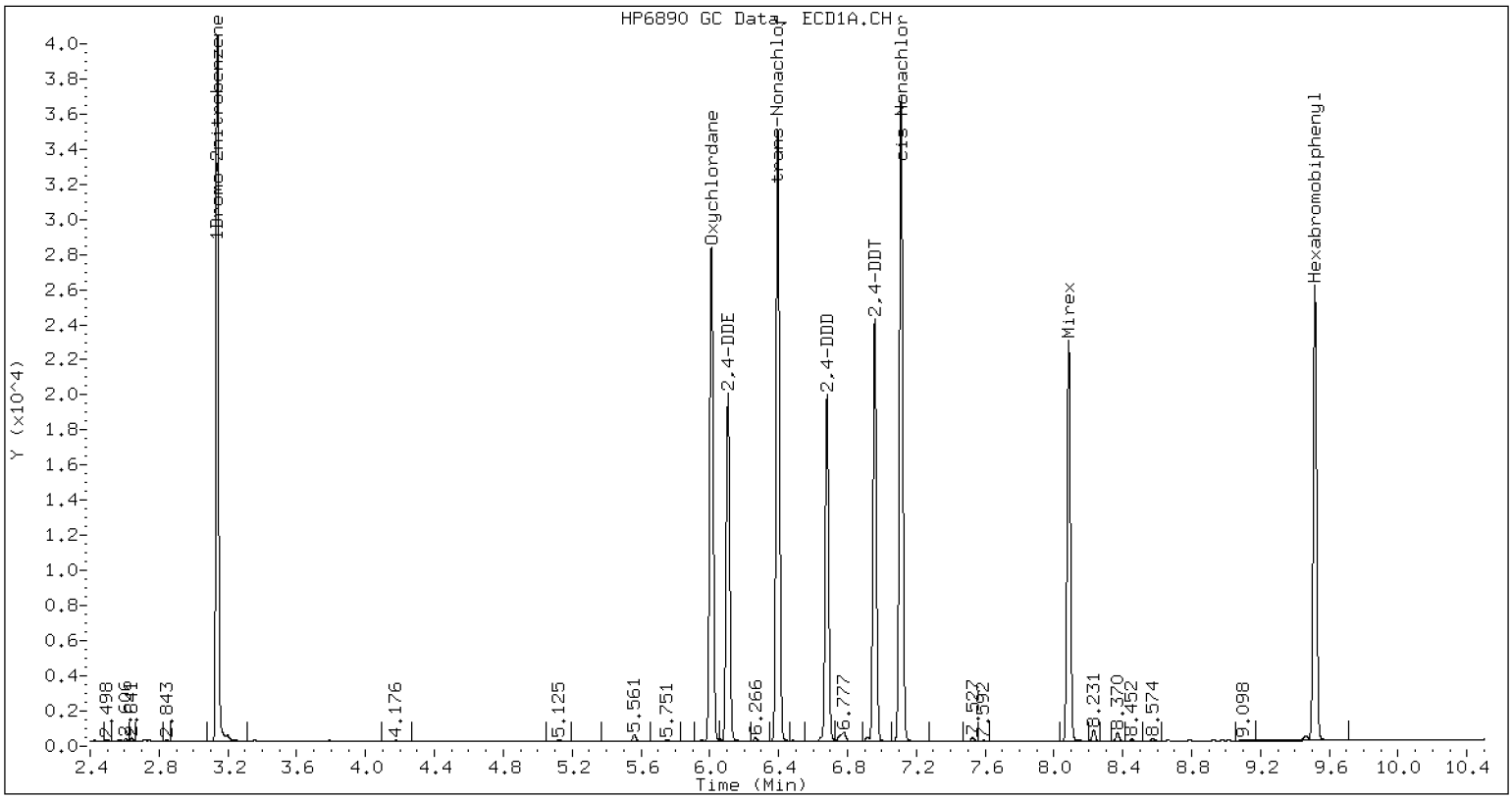
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	901377	4.3
Hexabromobiphenyl	663237	728475	9.8

Column 2

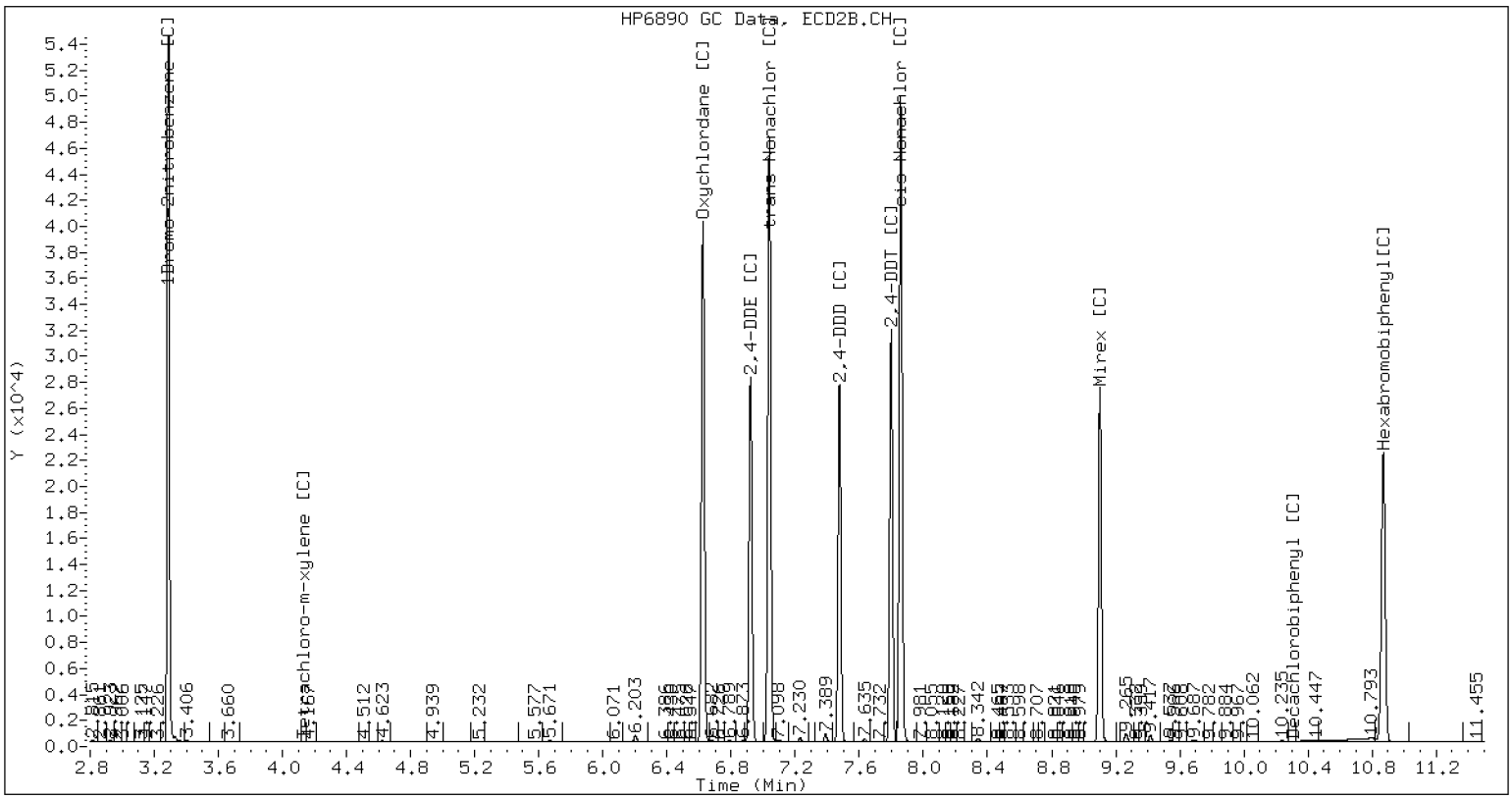
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1244306	-16.0
Hexabromobiphenyl	870561	755238	-13.2

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

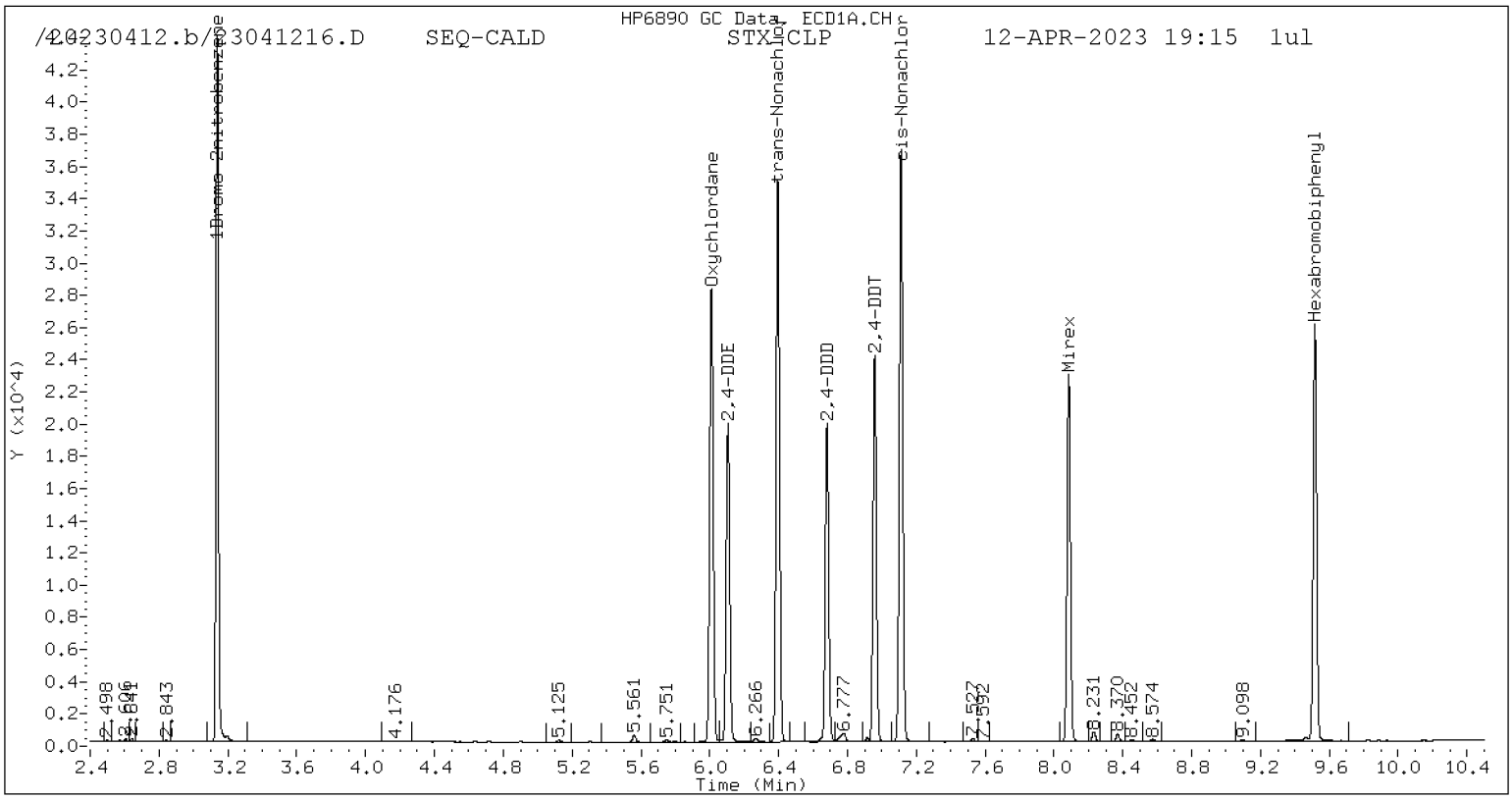
/20230412.b/23041216.D SEQ-CALD STX-CLP 12-APR-2023 19:15 1ul



/20230412.b/B20230412.b/23041216.D SEQ-CALD CLP2 12-APR-2023 19:15 1ul

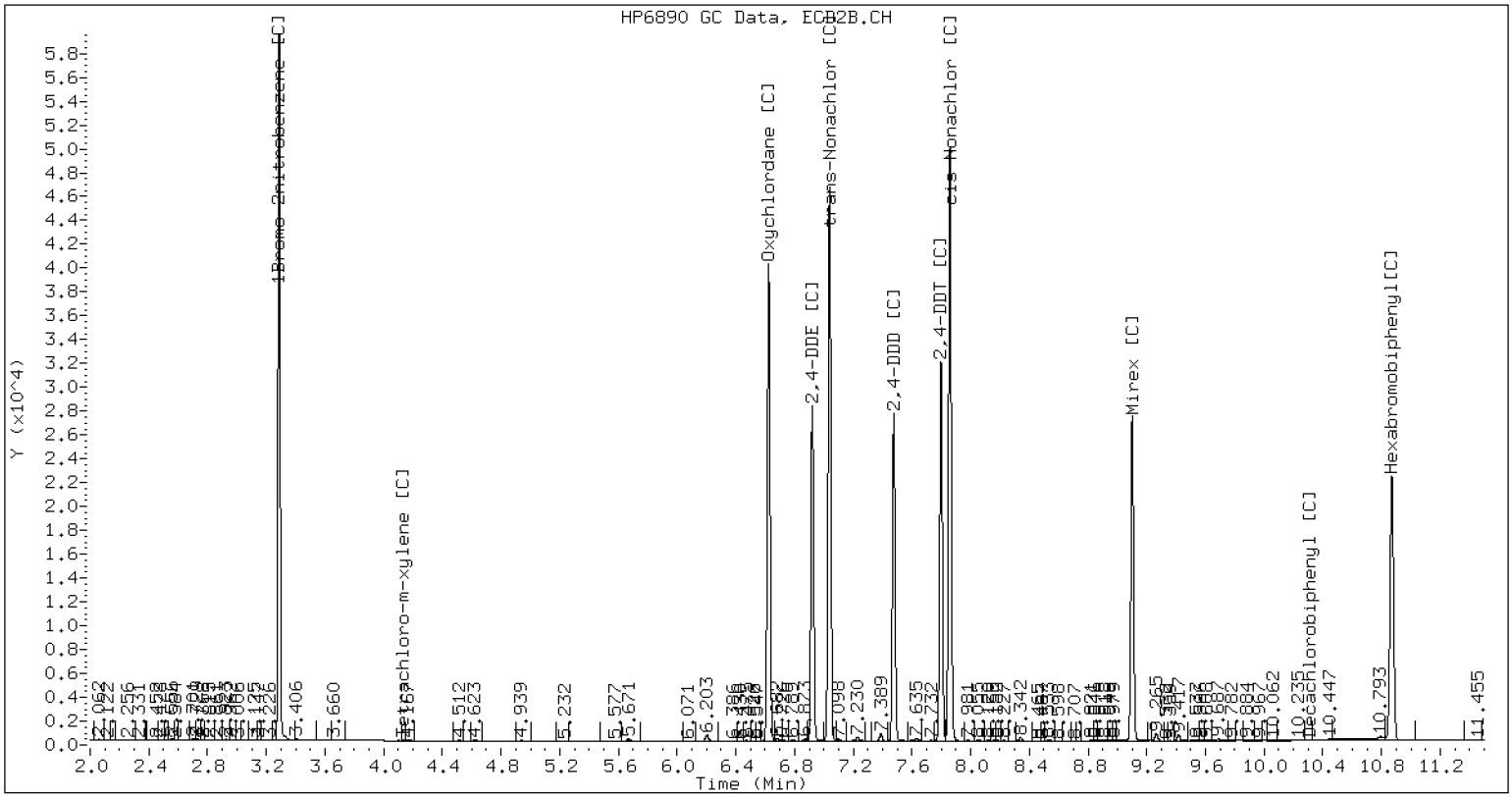


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041216.D SEQ-CALD CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041217.D
Data file 2: /20230412.b/B20230412.b/23041217.D
Method: \20230412.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALE
Client ID:
Injection Date: 12-APR-2023 19:34
Report Date: 04/14/2023 09:40
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.009	0.000	1520737	6.624	-0.000	1976637	132.87	137.37	3.3	Oxychlordane M
6.105	-0.000	1051945	6.921	-0.000	1344143	127.02	127.86	0.7	2,4-DDE M
6.395	0.000	1828376	7.039	-0.000	2280597	136.25	139.01	2.0	trans-Nonachlor M
6.681	0.000	1007071	7.477	-0.000	1318871	130.63	135.15	3.4	2,4-DDD M
6.959	0.000	1216718	7.799	-0.000	1510661	130.69	135.39	3.5	2,4-DDT M
7.112	0.000	1924725	7.859	0.000	2389114	137.91	140.84	2.1	cis-Nonachlor M
8.086	0.000	1166143	9.101	0.000	1359594	133.61	138.86	3.9	Mirex M
----			4.136	0.000	307	0.00	0.02	---	Tetrachloro-m-xylene
----			10.308	0.002	3667	0.00	0.39	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

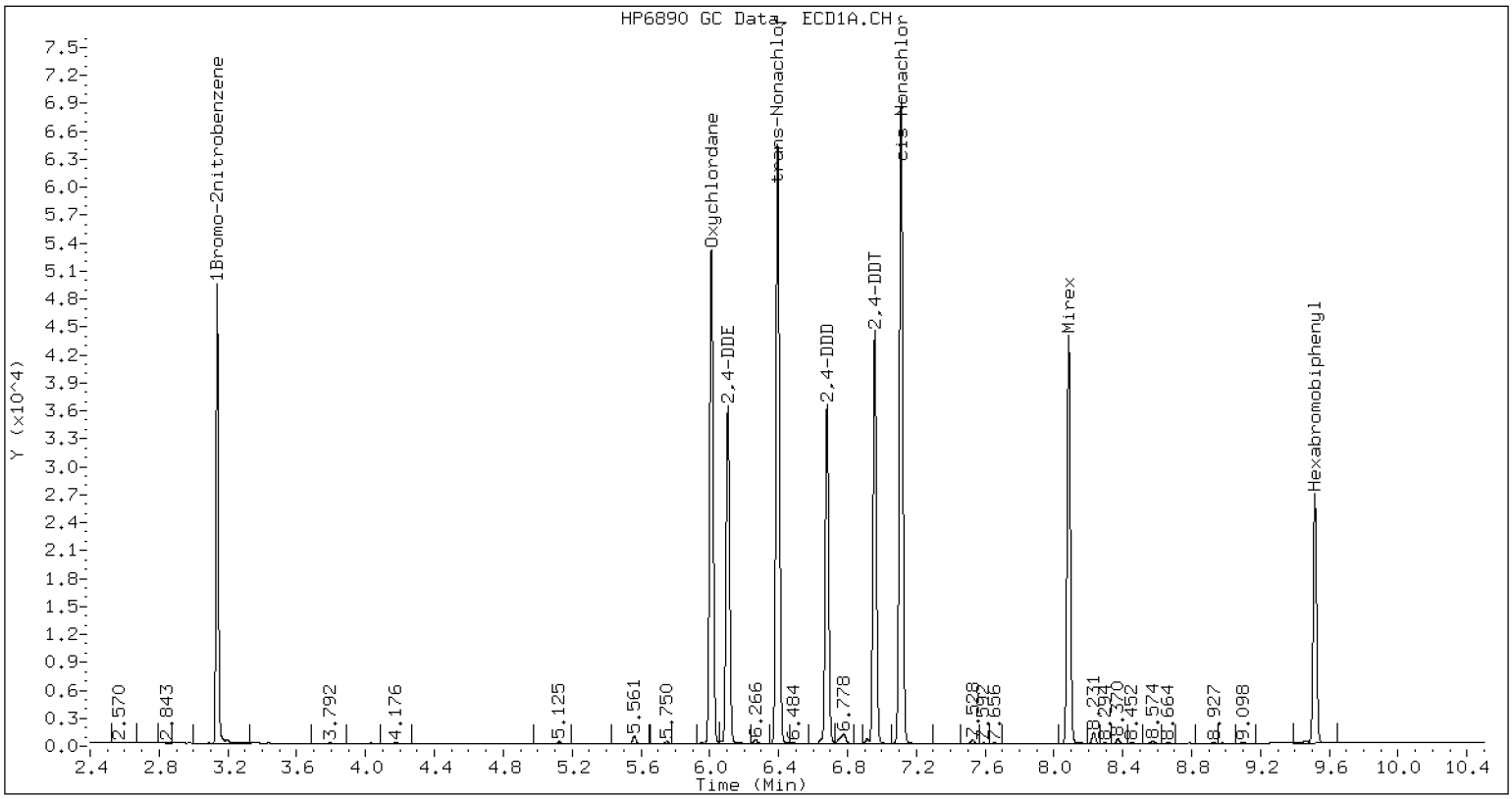
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	923493	6.8
Hexabromobiphenyl	663237	742507	12.0

Column 2

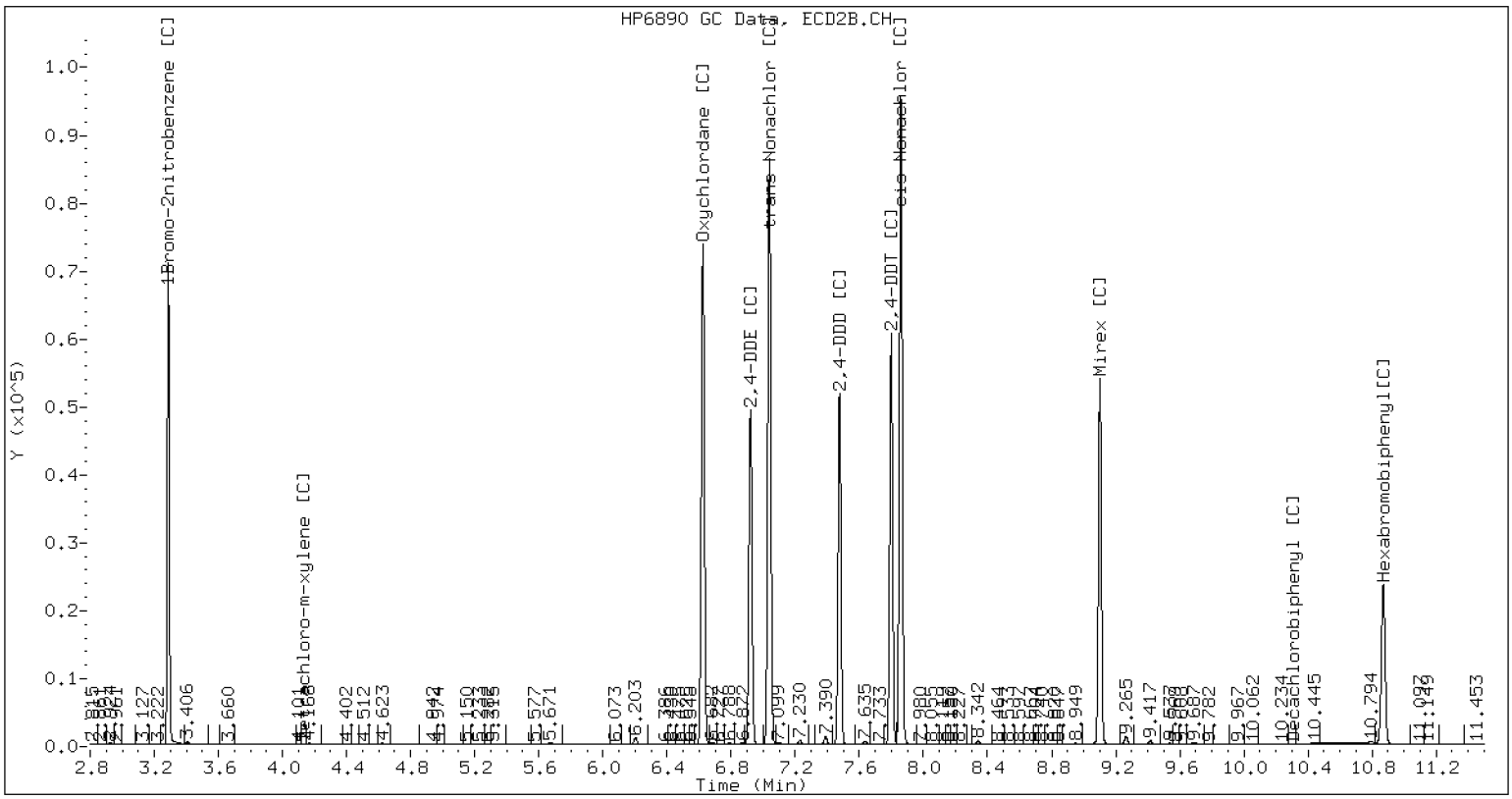
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1258546	-15.0
Hexabromobiphenyl	870561	779225	-10.5

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

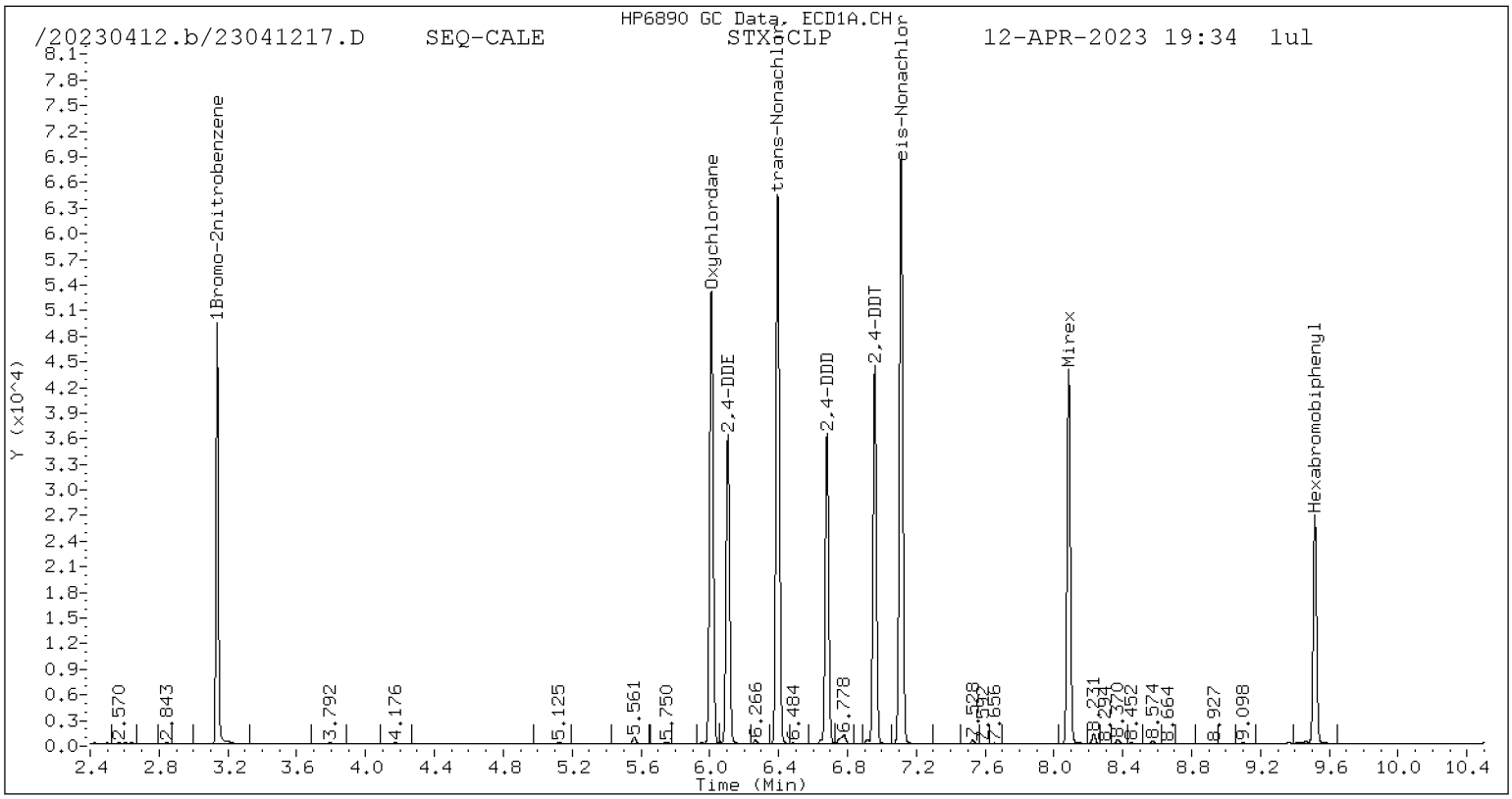
/20230412.b/23041217.D SEQ-CALE STX-CLP 12-APR-2023 19:34 1ul



/20230412.b/B20230412.b/23041217.D SEQ-CALE CLP2 12-APR-2023 19:34 1ul

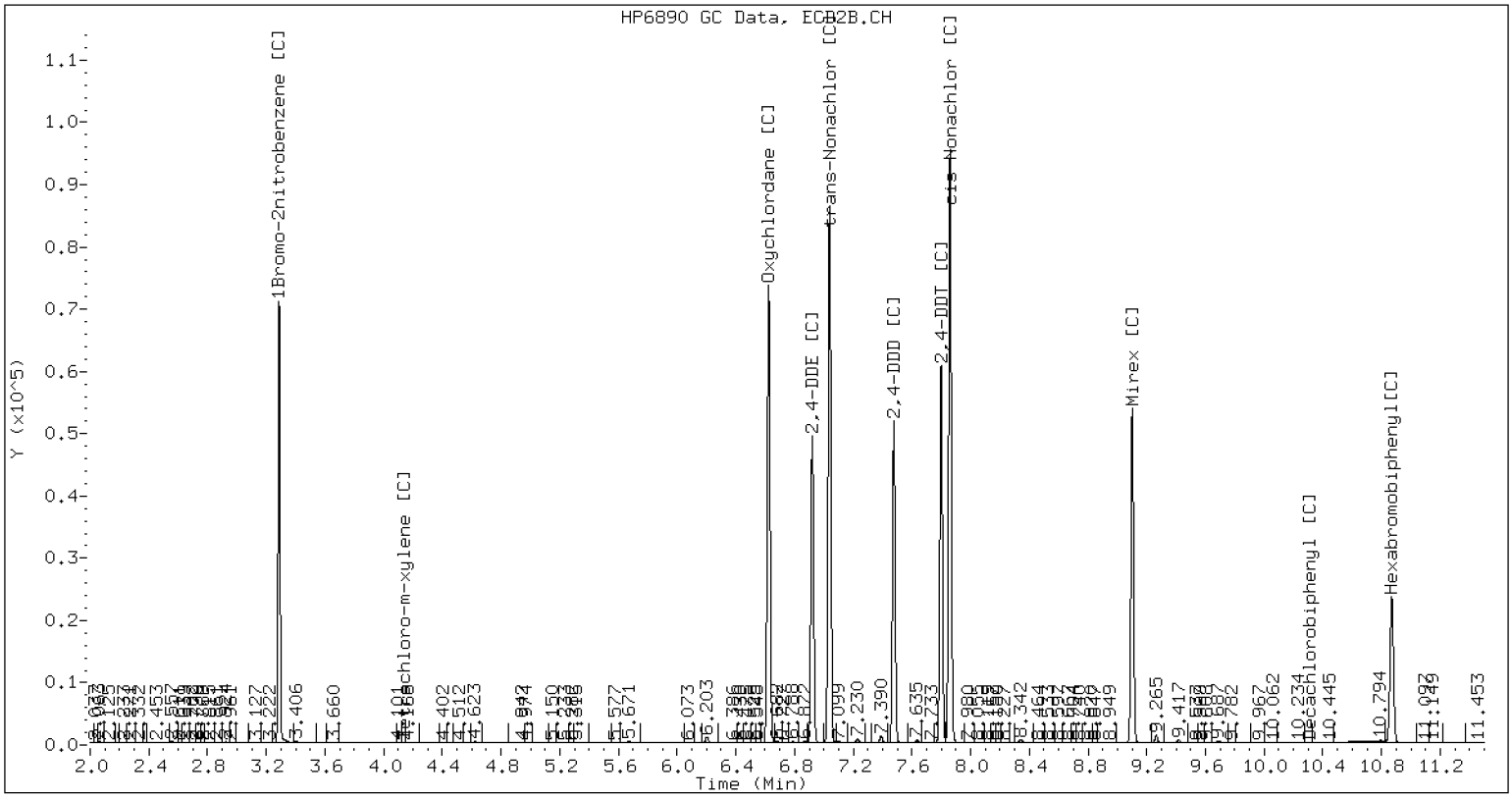


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

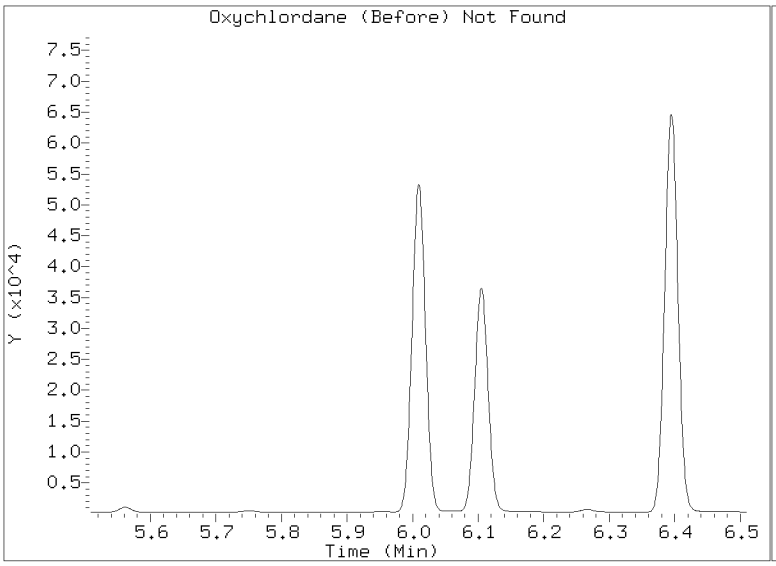
/20230412.b/B20230412.b/23041217.D SEQ-CALE CLP2

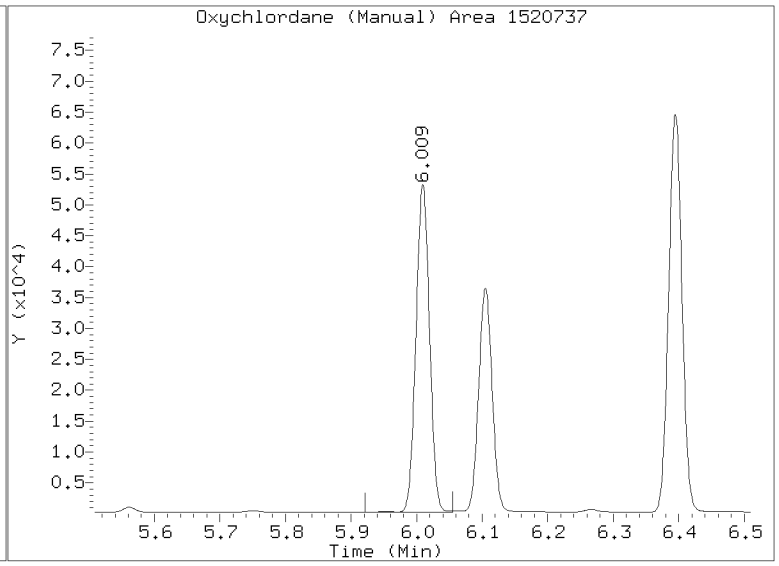


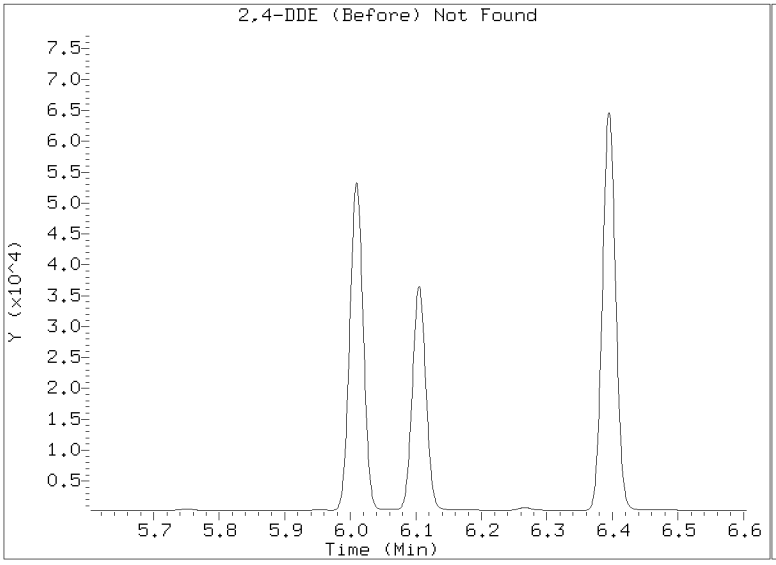
CLP-2 Manual Integration: NO

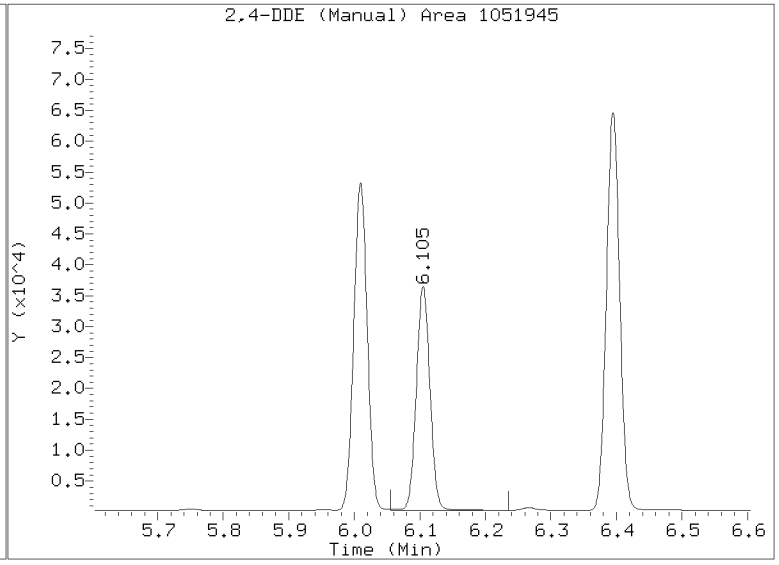
Manual Peak Adjustment Report, STX-CLP

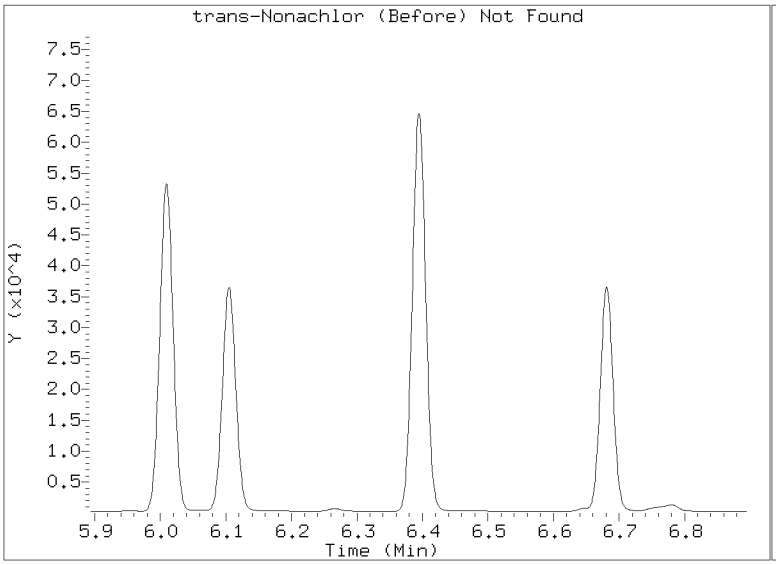
Datafile: /20230412.b/23041217.D
Injection Date: 12-APR-2023 19:34
Lab ID:SEQ-CALE Client ID:
Report Date: 04/14/2023 09:40

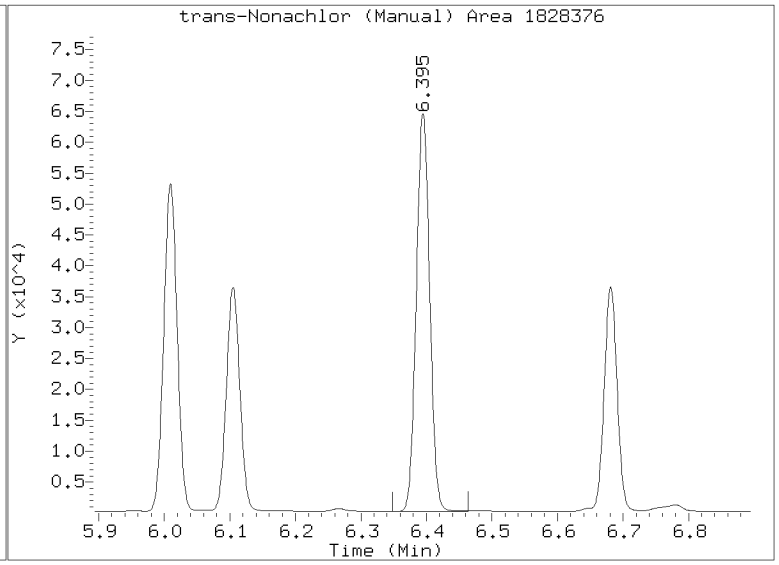






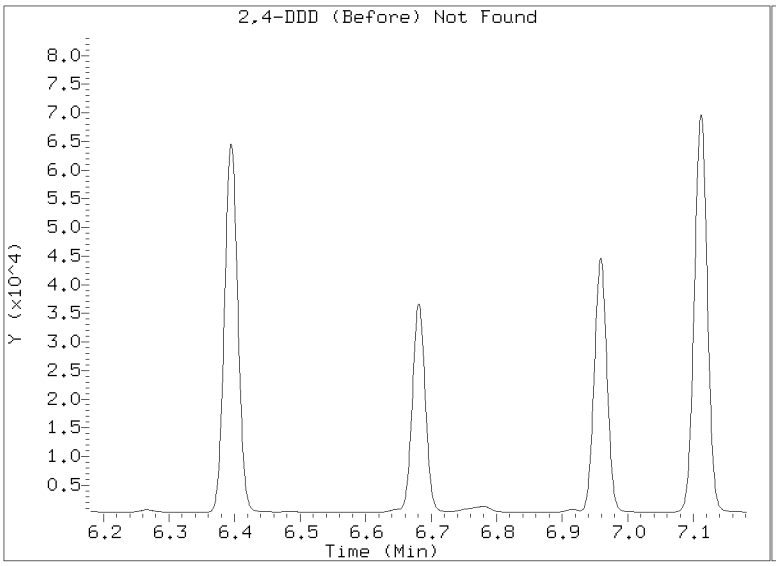


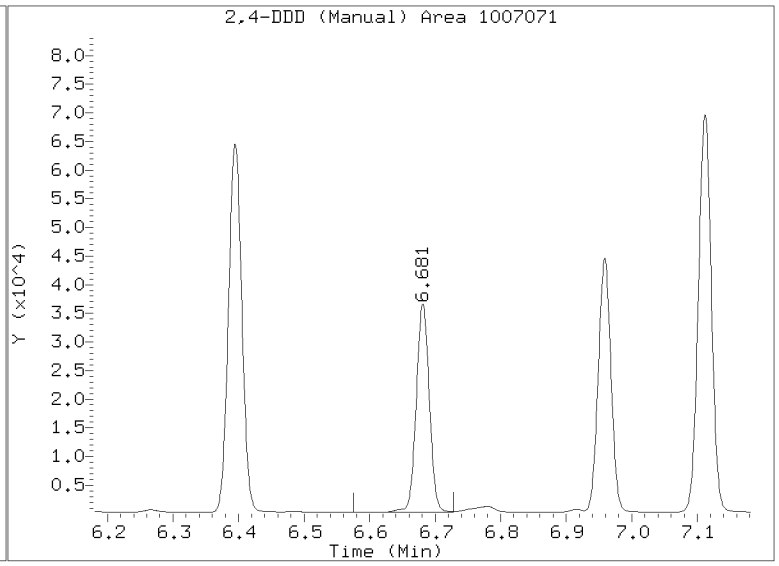


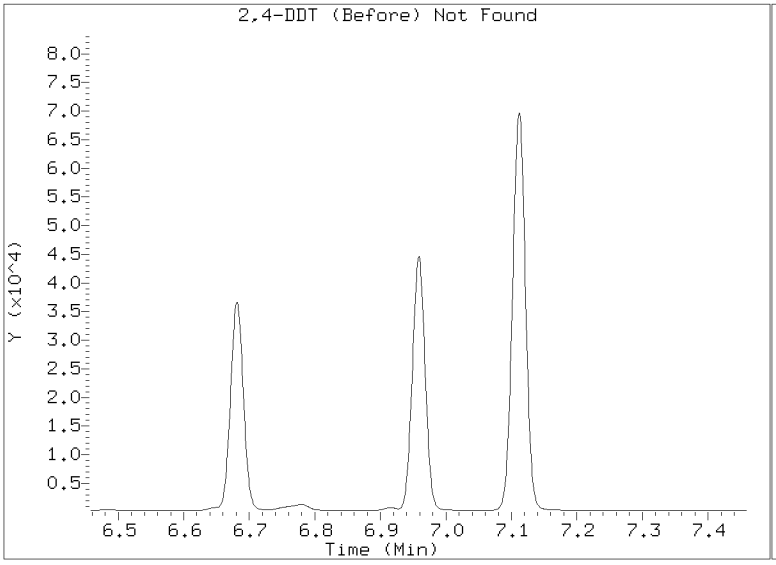


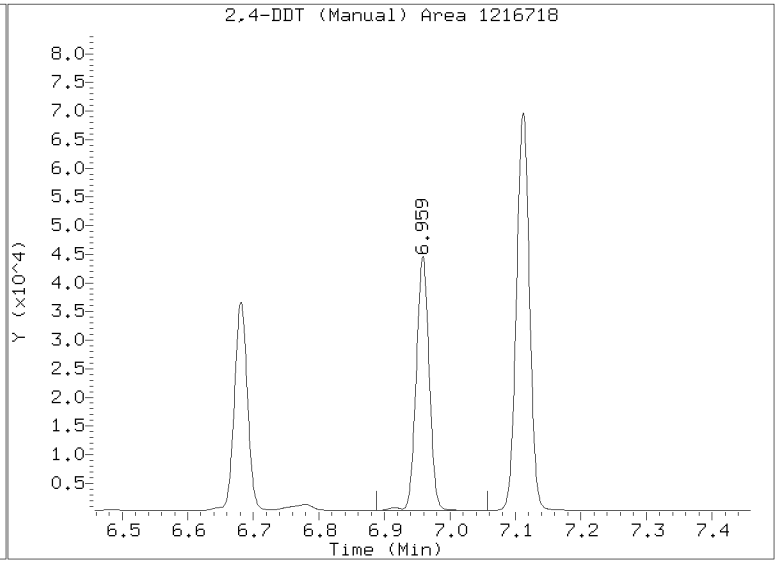
Manual Peak Adjustment Report, STX-CLP

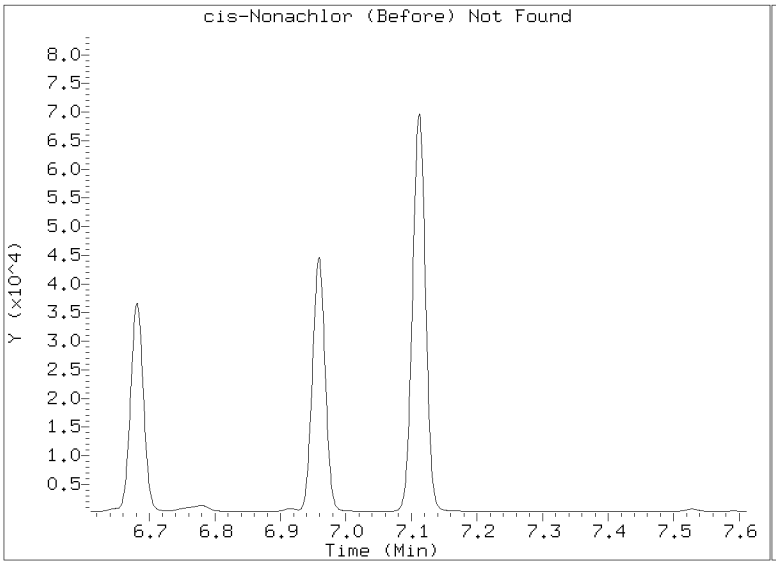
Datafile: /20230412.b/23041217.D
Injection Date: 12-APR-2023 19:34
Lab ID:SEQ-CALE Client ID:
Report Date: 04/14/2023 09:40

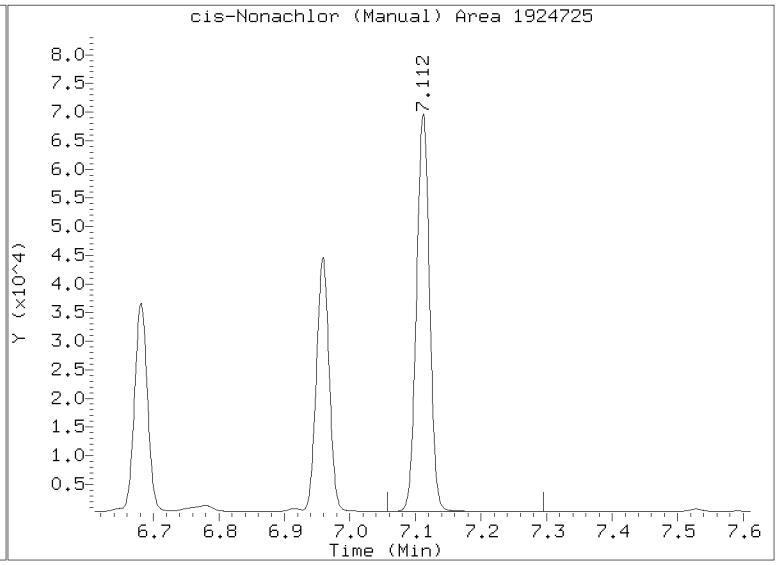






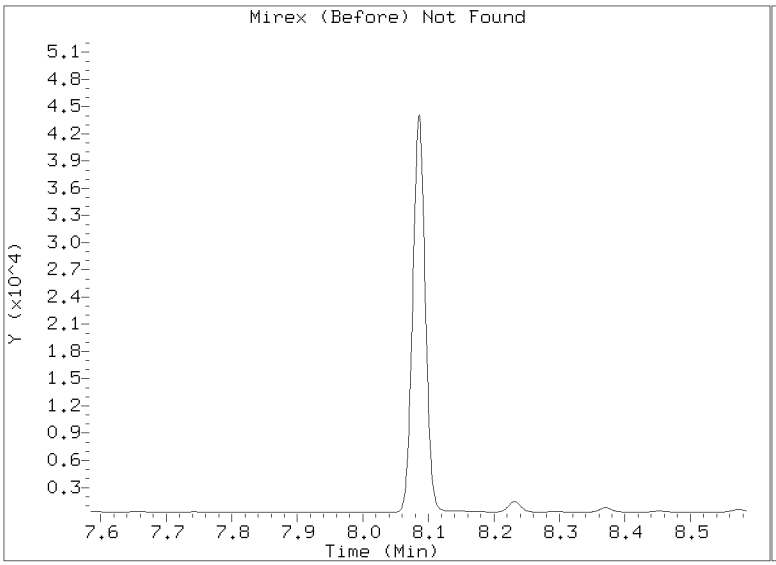


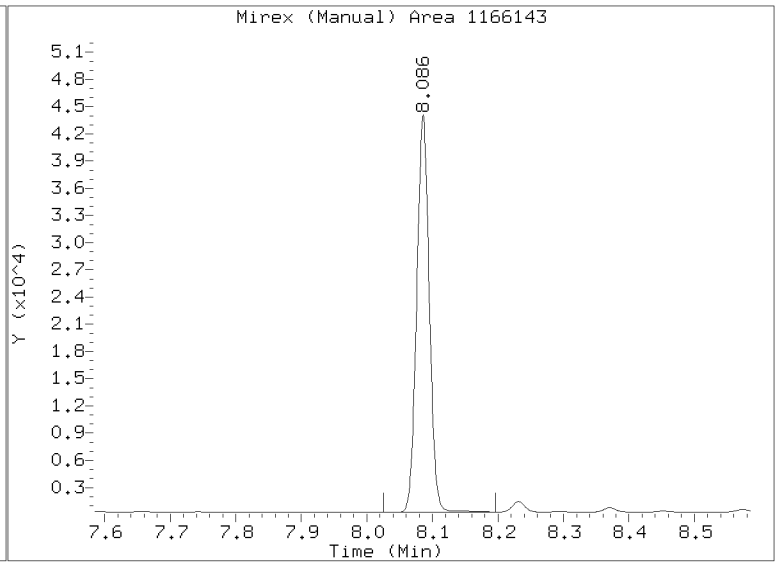




Manual Peak Adjustment Report, STX-CLP

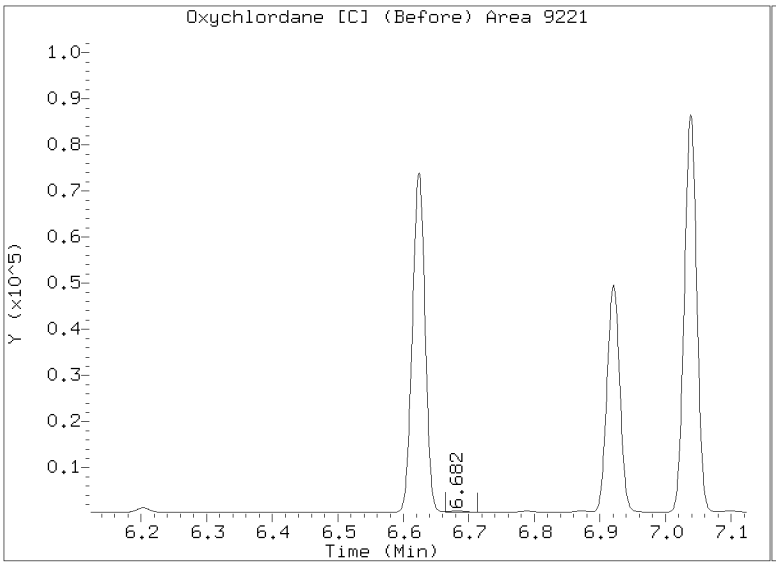
Datafile: /20230412.b/23041217.D
Injection Date: 12-APR-2023 19:34
Lab ID:SEQ-CALE Client ID:
Report Date: 04/14/2023 09:40

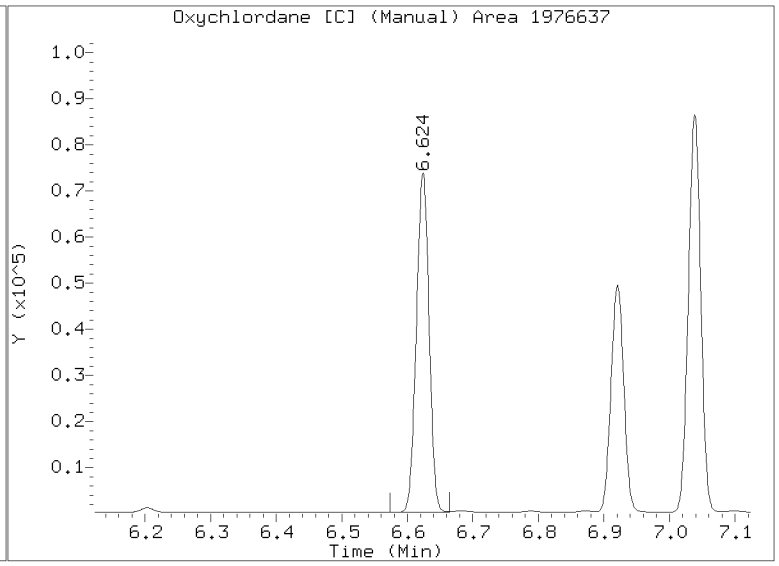


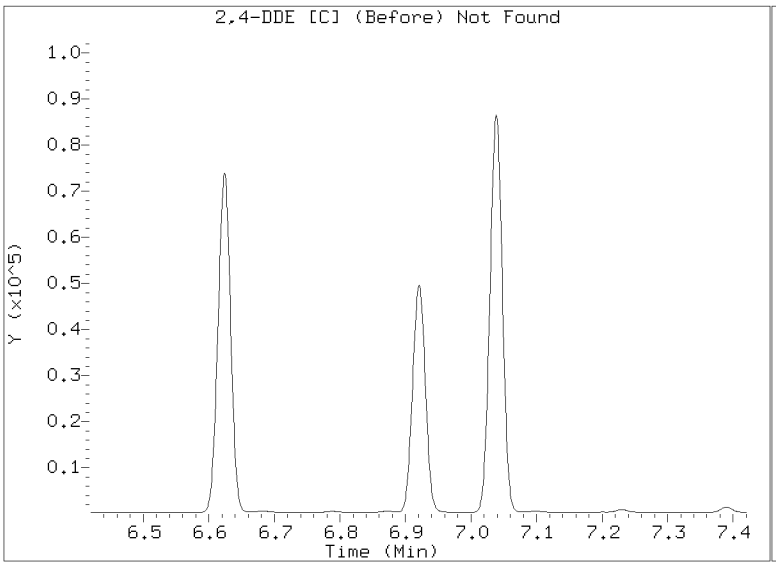


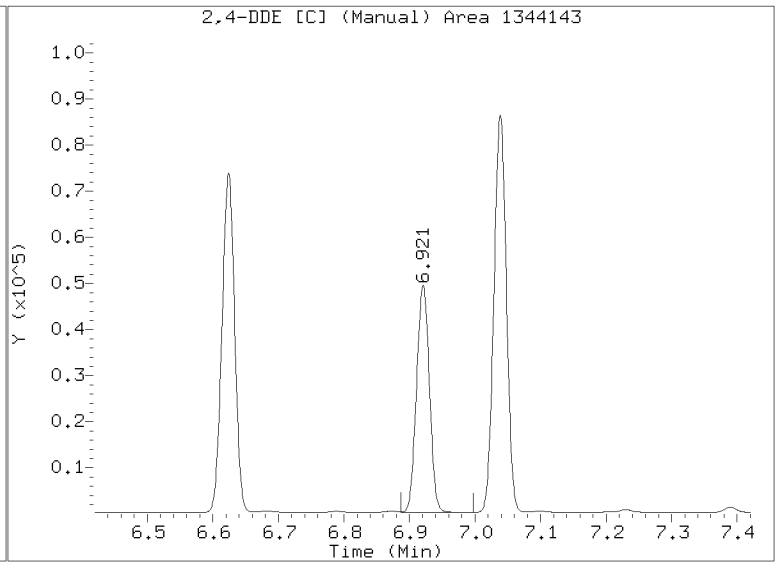
Manual Peak Adjustment Report, CLP-2

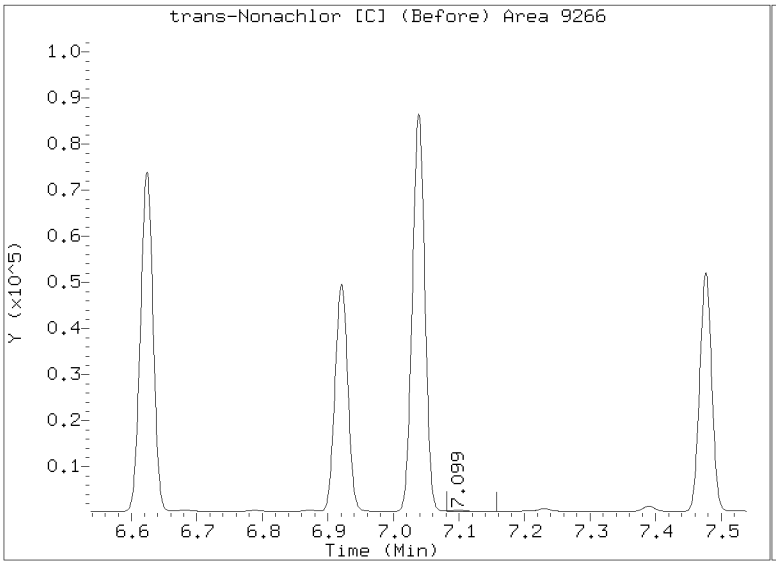
Datafile: /20230412.b/B20230412.b/23041217.D
Injection Date: 12-APR-2023 19:34
Lab ID:SEQ-CALE Client ID:

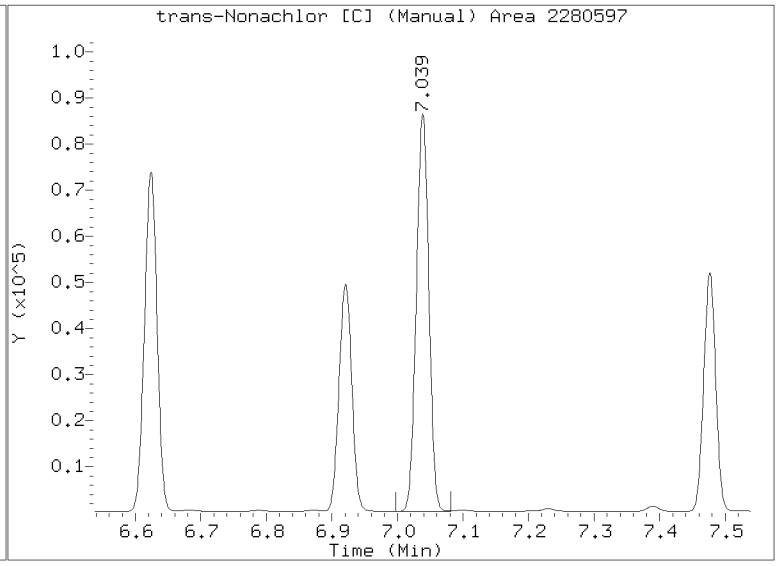






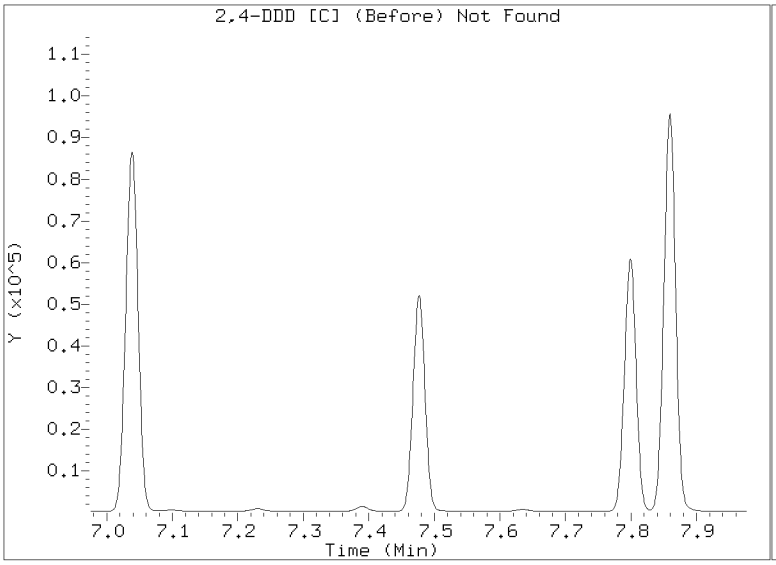


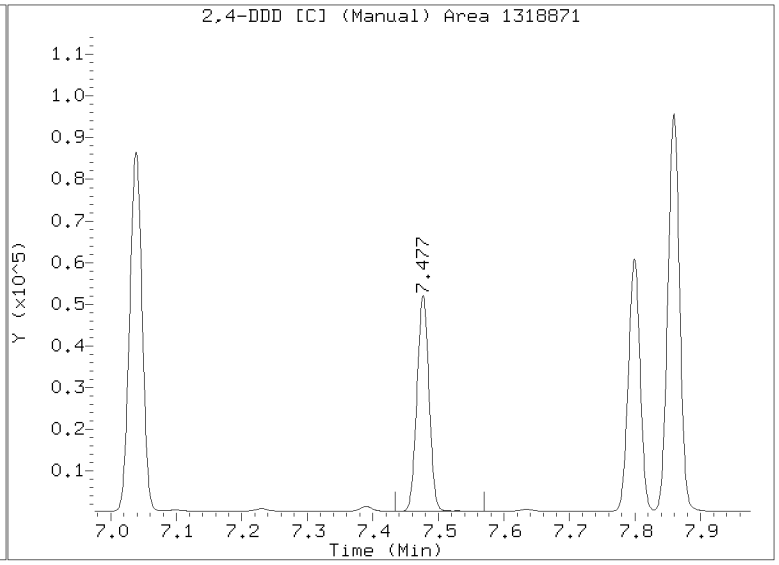


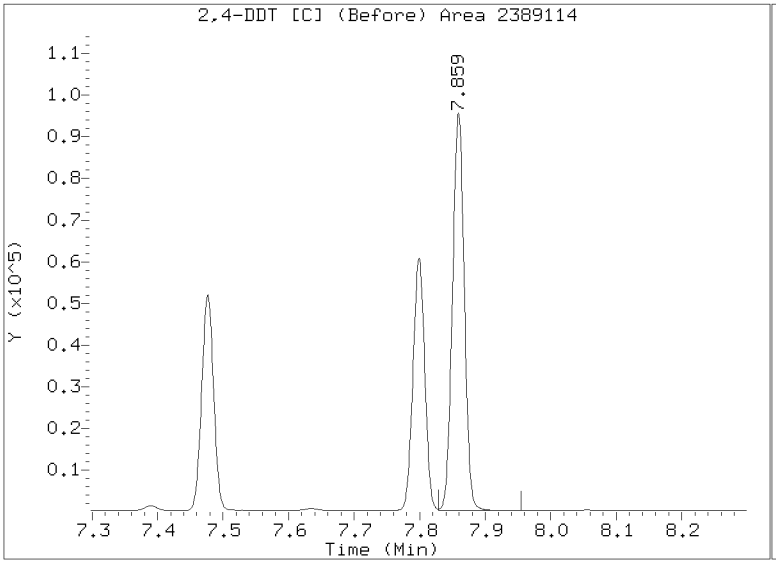


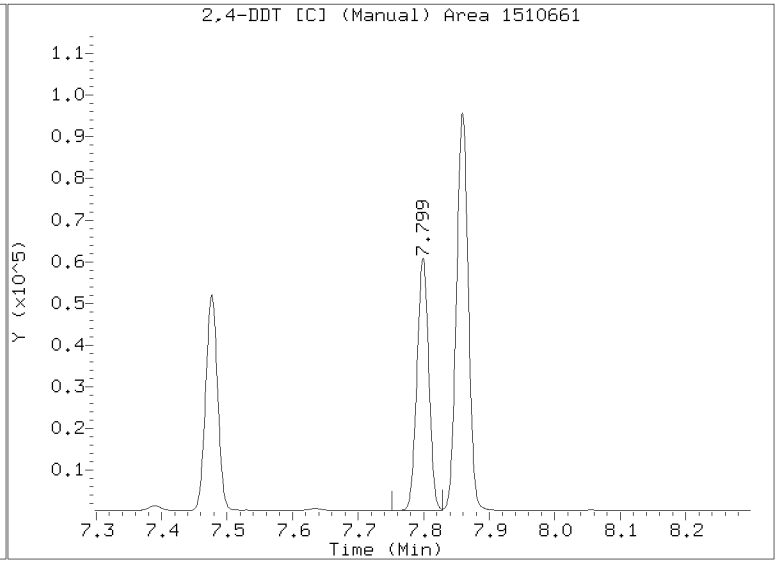
Manual Peak Adjustment Report, CLP-2

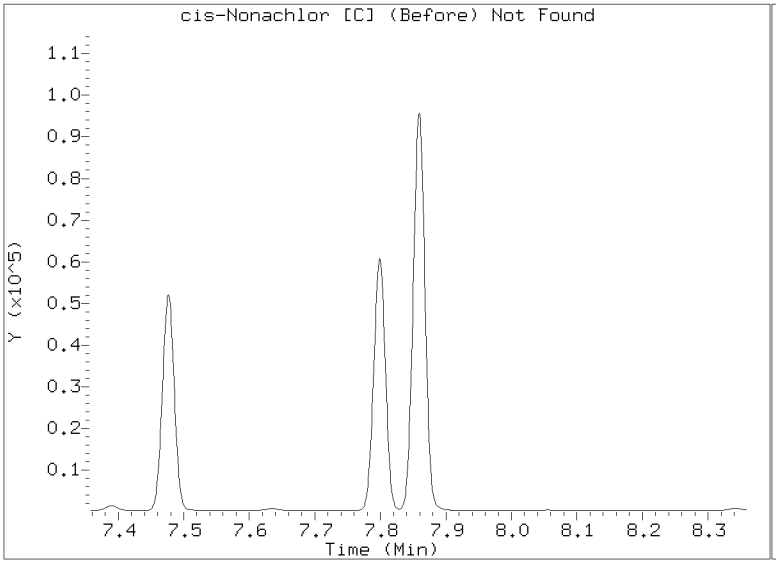
Datafile: /20230412.b/B20230412.b/23041217.D
Injection Date: 12-APR-2023 19:34
Lab ID:SEQ-CALE Client ID:

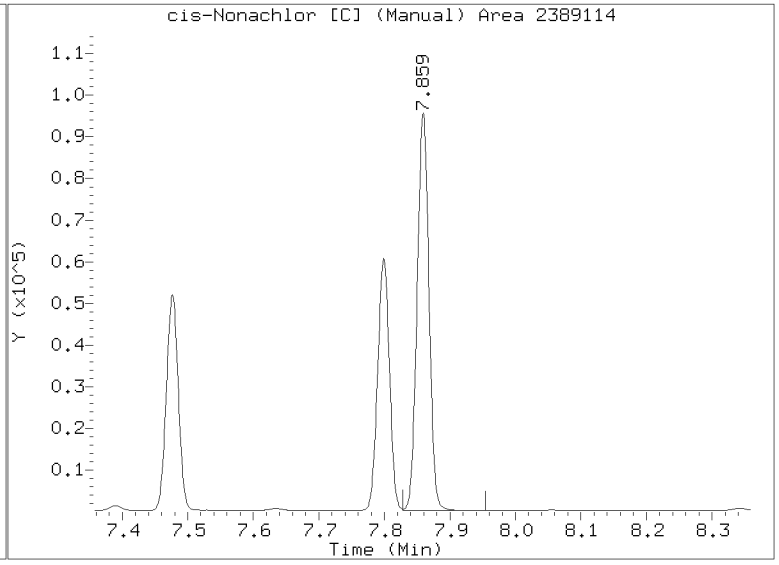






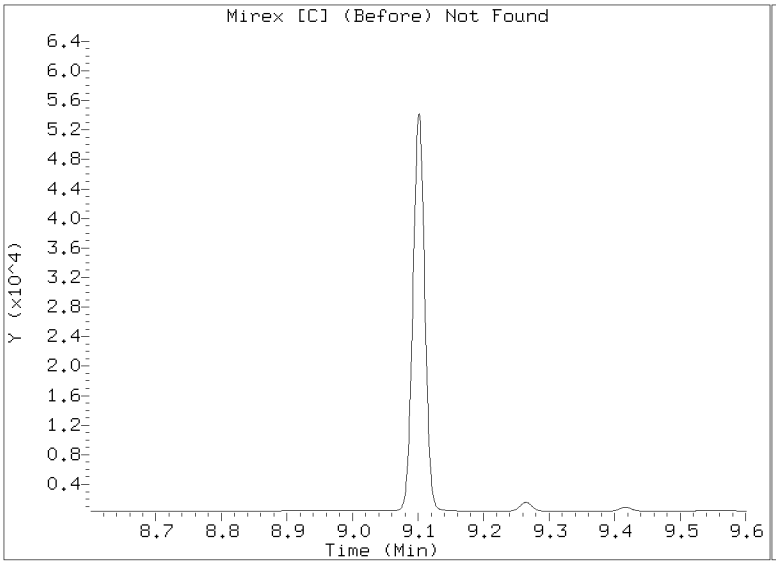


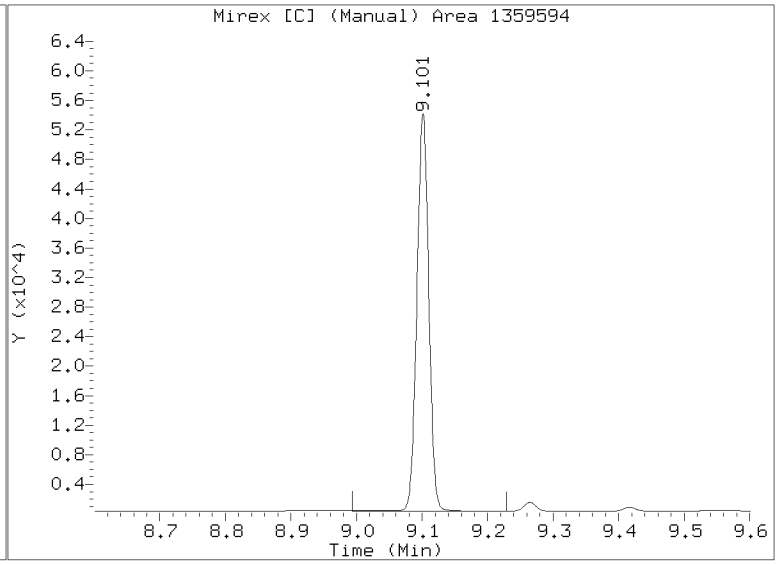




Manual Peak Adjustment Report, CLP-2

Datafile: /20230412.b/B20230412.b/23041217.D
Injection Date: 12-APR-2023 19:34
Lab ID:SEQ-CALE Client ID:





Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041218.D
Data file 2: /20230412.b/B20230412.b/23041218.D
Method: \20230412.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALF
Client ID:
Injection Date: 12-APR-2023 19:52
Report Date: 04/13/2023 13:06
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.820	0.001	13904	4.136	0.000	18748	1.09	1.07	1.1	Tetrachloro-m-xylene
9.367	0.001	24477	10.306	-0.000	31773	2.82	3.41	19.2	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	914711	5.8
Hexabromobiphenyl	663237	736746	11.1

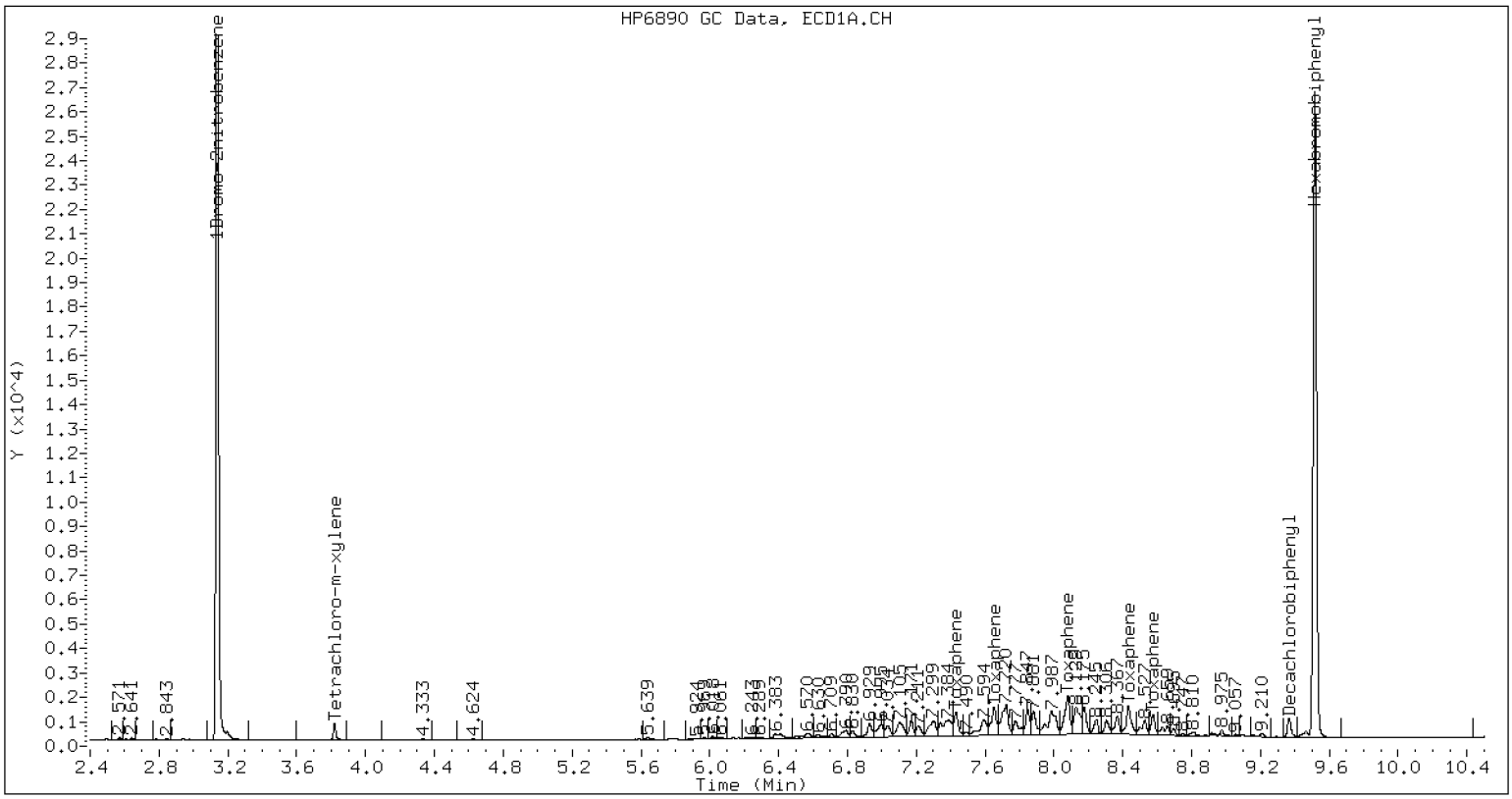
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1268733	-14.3
Hexabromobiphenyl	870561	770830	-11.5

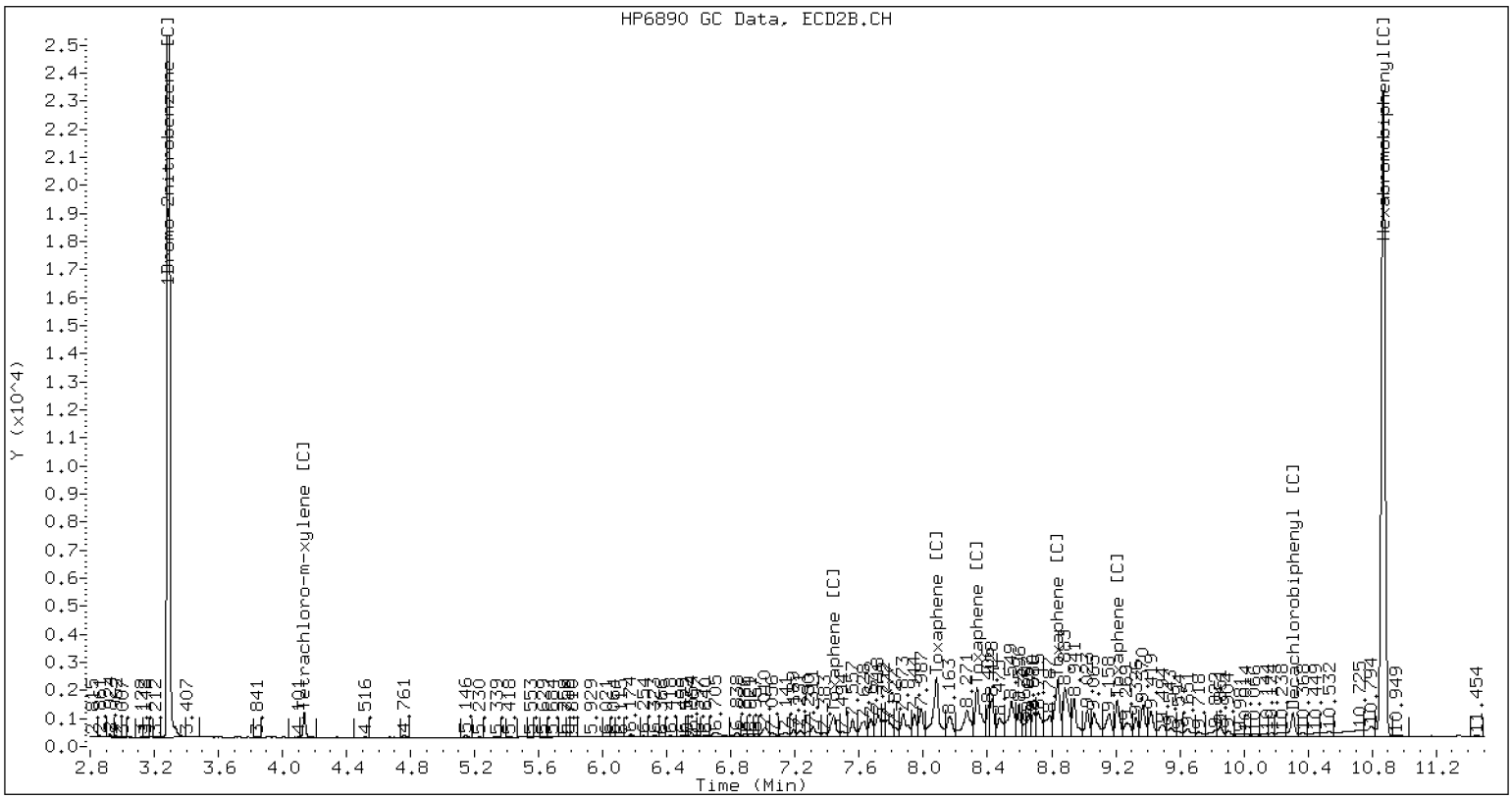
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Toxaphene	1	7.430	-0.000	34115	125.1	1	7.440	0.000	35652	143.7	
Toxaphene	2	7.652	-0.001	48770	133.6	2	8.082	-0.001	107411	146.6	
Toxaphene	3	8.080	0.000	67485	135.6	3	8.335	-0.001	81808	143.0	
Toxaphene	4	8.433	0.000	48028	122.4	4	8.838	-0.001	87639	142.7	
Toxaphene	5	8.575	-0.000	27697	117.3	5	9.209	-0.001	46750	139.0	
Total STX-CLPAve (5 peaks): 126.820						Total CLP2Ave (5 peaks): 142.998				RPD = 12	
Corrected Ave (5 peaks): 126.820						Corrected Ave (5 peaks): 142.998				RPD = 12	

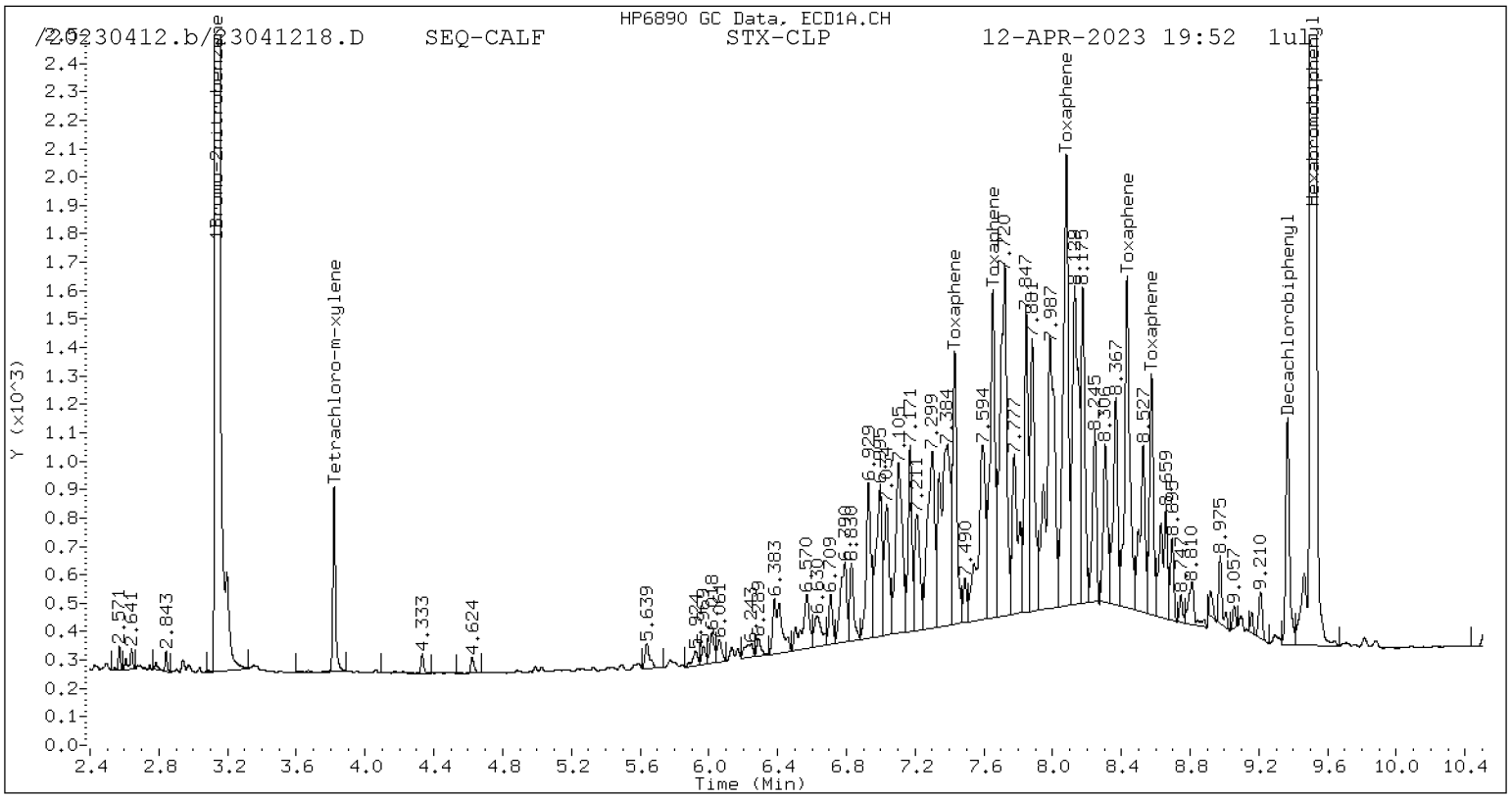
/20230412.b/23041218.D SEQ-CALF STX-CLP 12-APR-2023 19:52 1ul



/20230412.b/B20230412.b/23041218.D SEQ-CALF CLP2 12-APR-2023 19:52 1ul

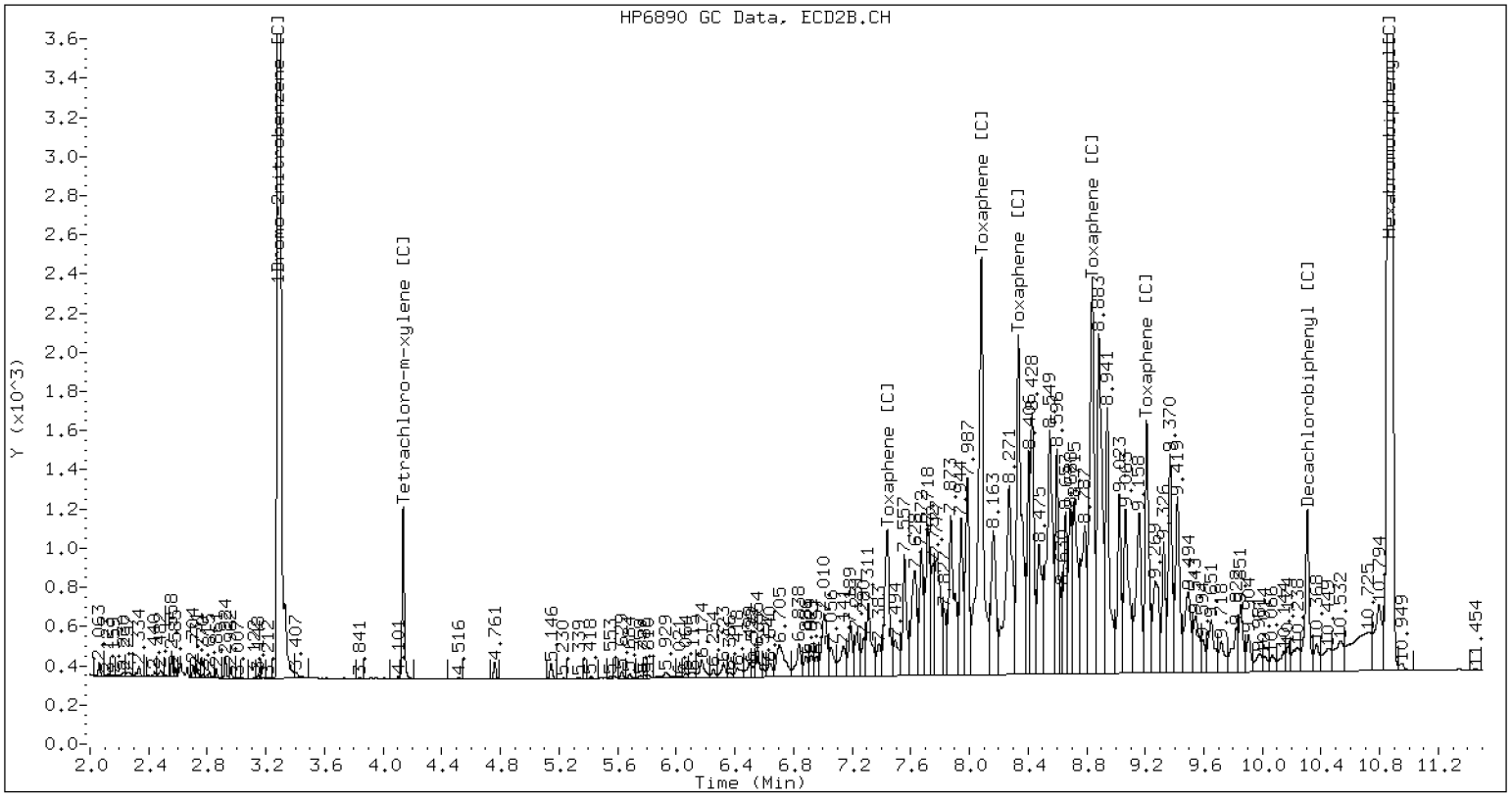


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041218.D SEQ-CALF CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041219.D
Data file 2: /20230412.b/B20230412.b/23041219.D
Method: \20230412.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALG
Client ID:
Injection Date: 12-APR-2023 20:10
Report Date: 04/13/2023 13:06
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.820	0.001	27648	4.136	0.000	36736	2.17	2.11	2.6	Tetrachloro-m-xylene
9.367	0.001	43538	10.306	-0.000	56135	5.17	6.10	16.5	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	911122	5.4
Hexabromobiphenyl	663237	714377	7.7

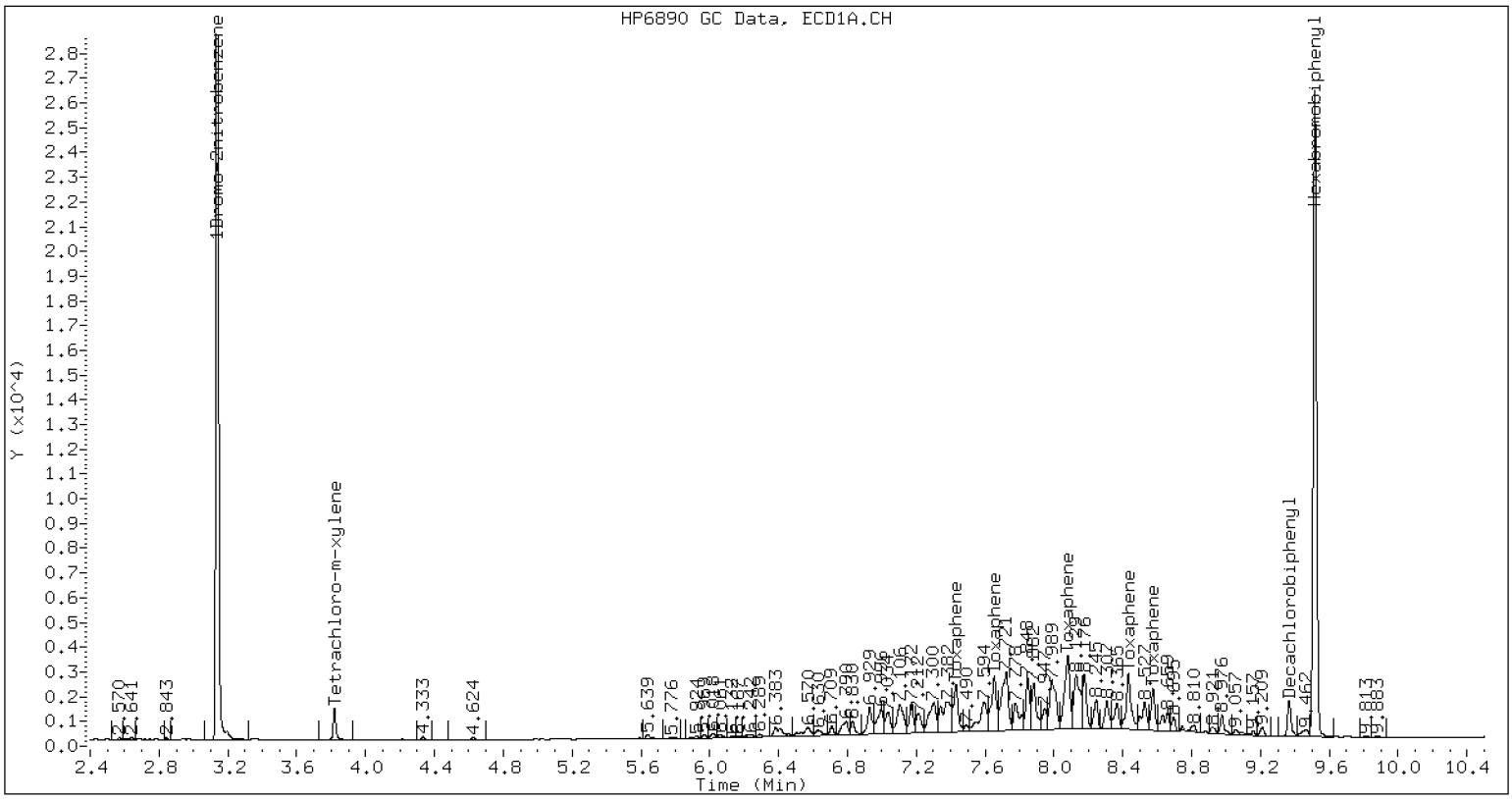
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1263997	-14.6
Hexabromobiphenyl	870561	762676	-12.4

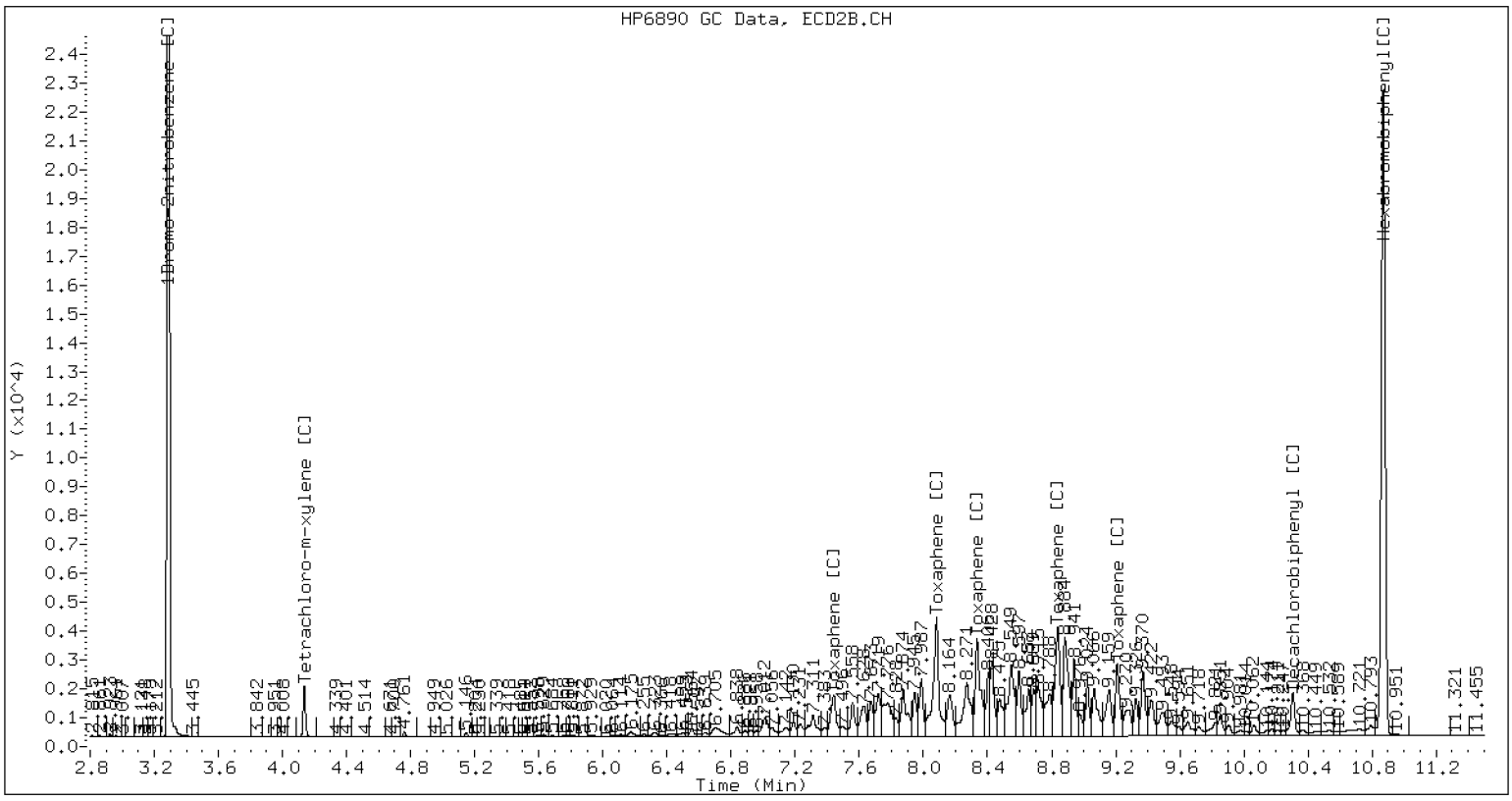
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Toxaphene	1	7.430	0.000	72029	272.5	1	7.440	0.000	69042	281.2	
Toxaphene	2	7.653	0.000	94737	267.7	2	8.082	-0.001	206105	284.4	
Toxaphene	3	8.079	0.000	129282	268.0	3	8.335	-0.001	158407	279.9	
Toxaphene	4	8.433	0.000	90301	237.4	4	8.838	-0.001	170052	279.8	
Toxaphene	5	8.575	0.000	53948	235.5	5	9.209	-0.001	91320	274.3	
Total STX-CLPAve (5 peaks): 256.226						Total CLP2Ave (5 peaks): 279.934				RPD = 9	
Corrected Ave (5 peaks): 256.226						Corrected Ave (5 peaks): 279.934				RPD = 9	

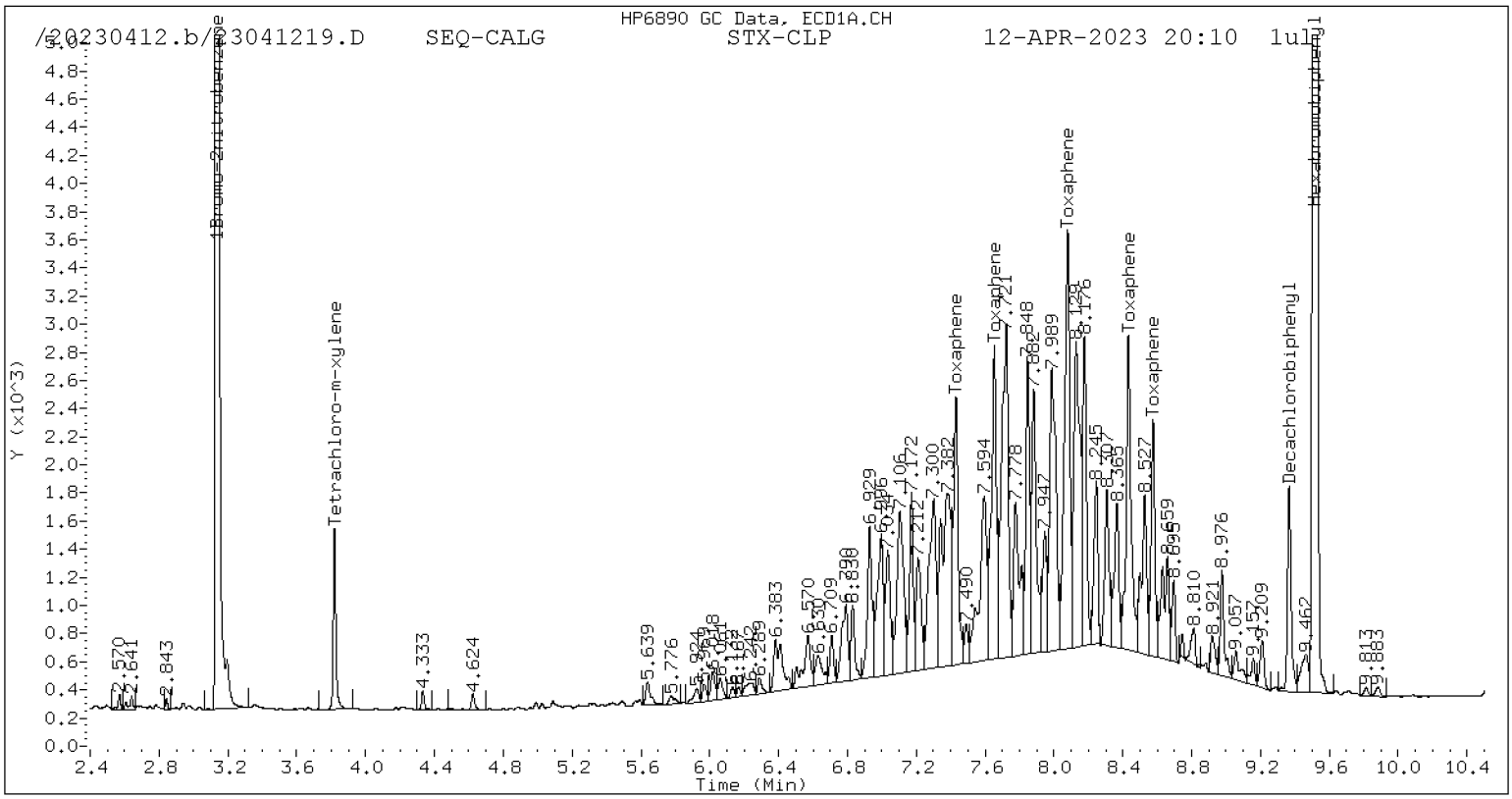
/20230412.b/23041219.D SEQ-CALG STX-CLP 12-APR-2023 20:10 1ul



/20230412.b/B20230412.b/23041219.D SEQ-CALG CLP2 12-APR-2023 20:10 1ul

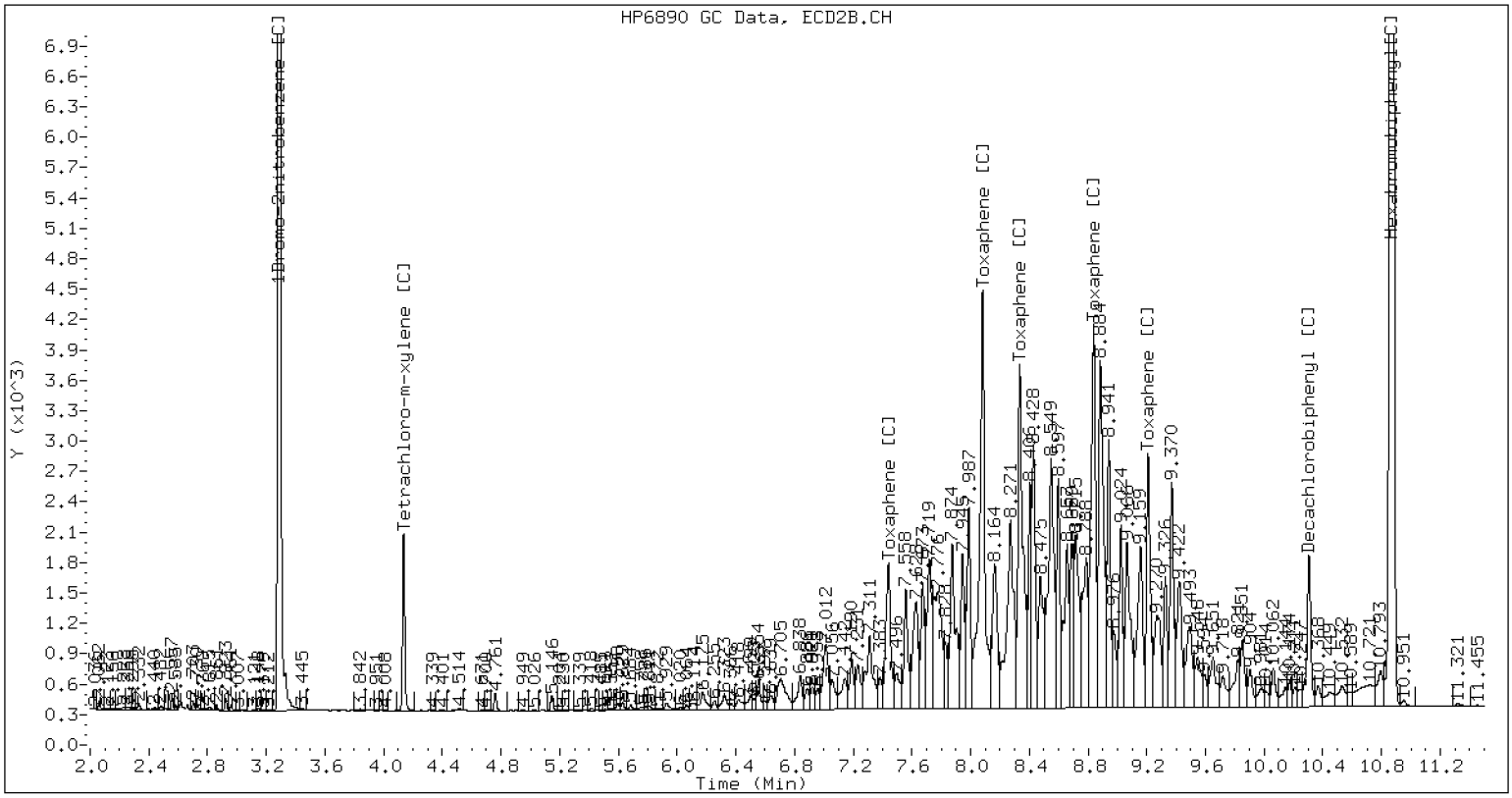


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041219.D SEQ-CALG CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041220.D
Data file 2: /20230412.b/B20230412.b/23041220.D
Method: \20230412.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALH
Client ID:
Injection Date: 12-APR-2023 20:29
Report Date: 04/13/2023 13:06
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.819	0.000	54190	4.136	-0.000	72947	4.30	4.19	2.4	Tetrachloro-m-xylene
9.367	0.001	84057	10.306	-0.000	112592	9.95	12.27	20.8	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	901082	4.3
Hexabromobiphenyl	663237	716024	8.0

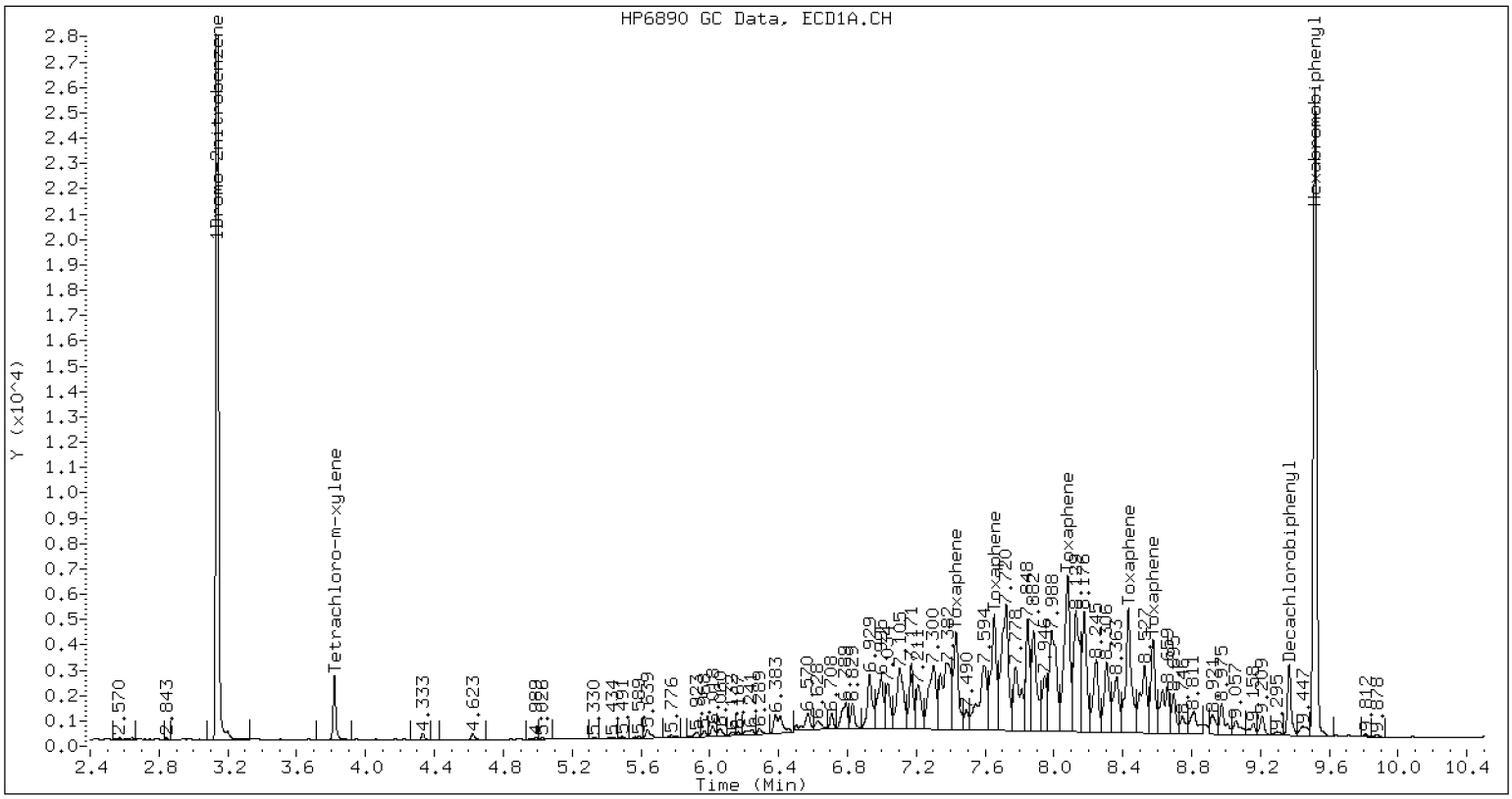
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1264745	-14.6
Hexabromobiphenyl	870561	760374	-12.7

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Toxaphene	1	7.430	0.000	157592	594.8	1	7.440	-0.000	136366	557.1	
Toxaphene	2	7.652	-0.001	205637	579.8	2	8.082	-0.001	403294	558.1	
Toxaphene	3	8.079	-0.000	290301	600.3	3	8.334	-0.002	313799	556.2	
Toxaphene	4	8.433	-0.000	226845	595.0	4	8.838	-0.001	331417	547.0	
Toxaphene	5	8.575	-0.000	137082	597.1	5	9.209	-0.001	180073	542.6	
Total STX-CLPAve (5 peaks): 593.415						Total CLP2Ave (5 peaks): 552.208				RPD = 7	
Corrected Ave (5 peaks): 593.415						Corrected Ave (5 peaks): 552.208				RPD = 7	

/20230412.b/23041220.D SEQ-CALH STX-CLP 12-APR-2023 20:29 1ul



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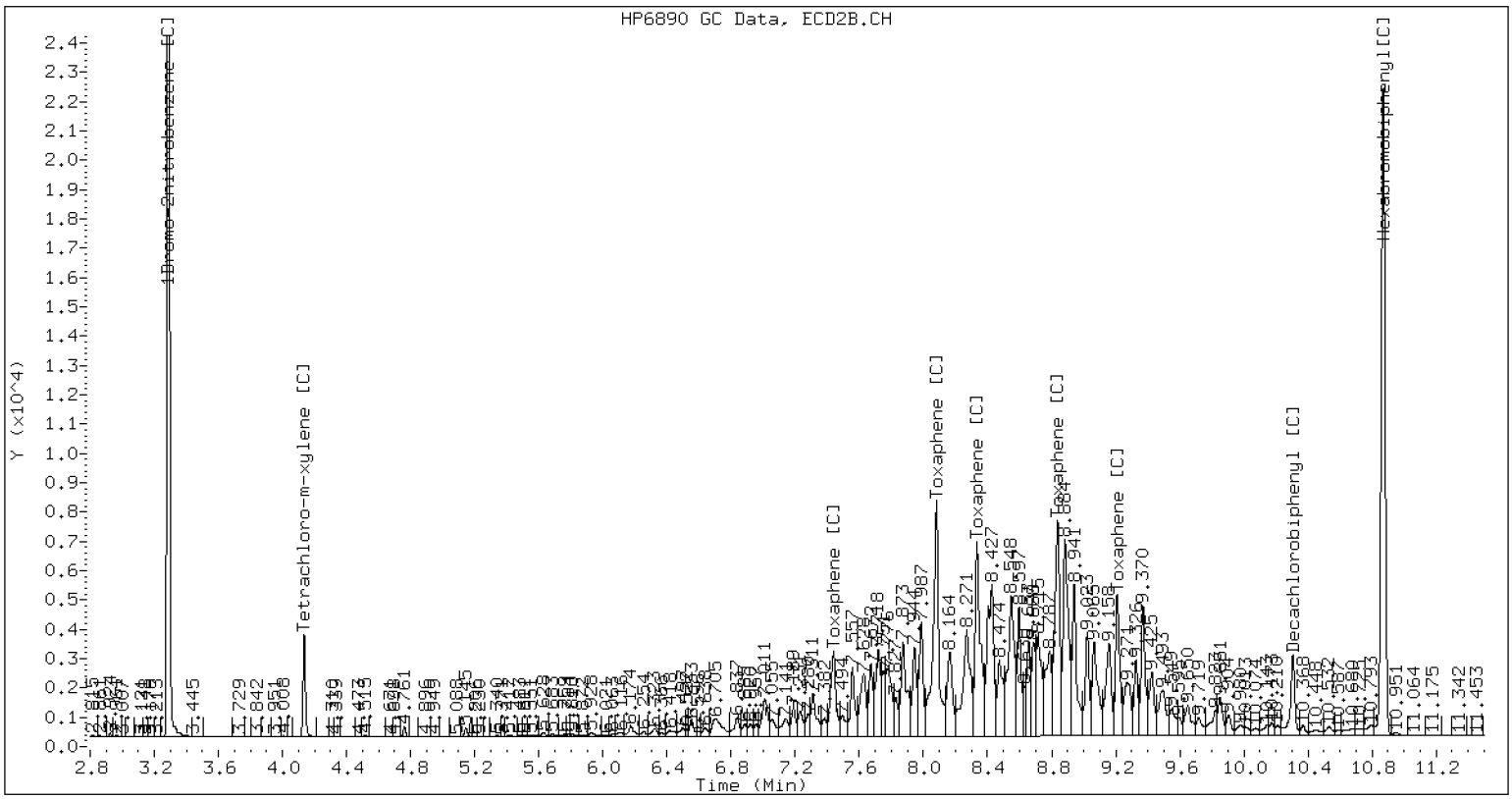
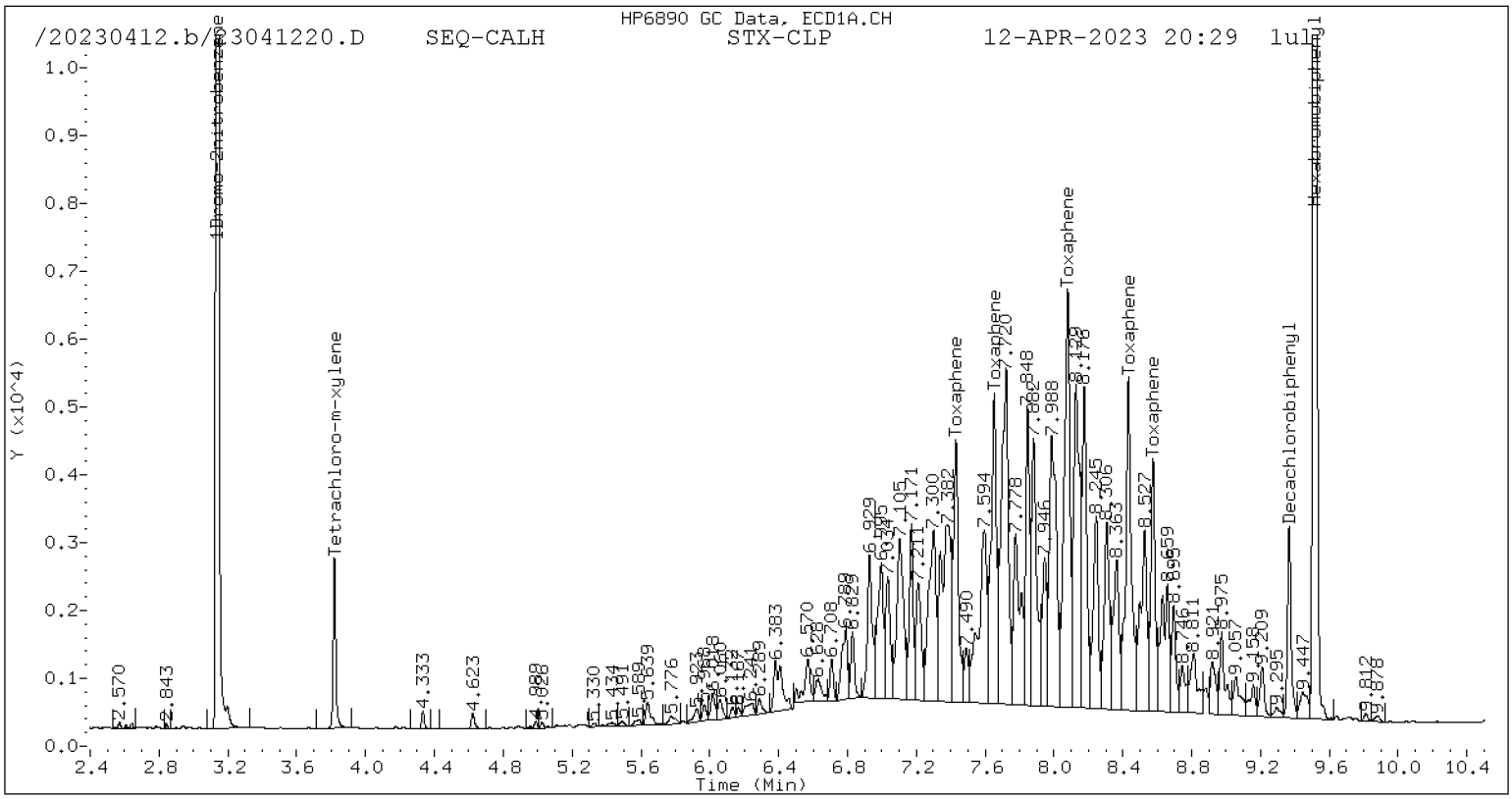
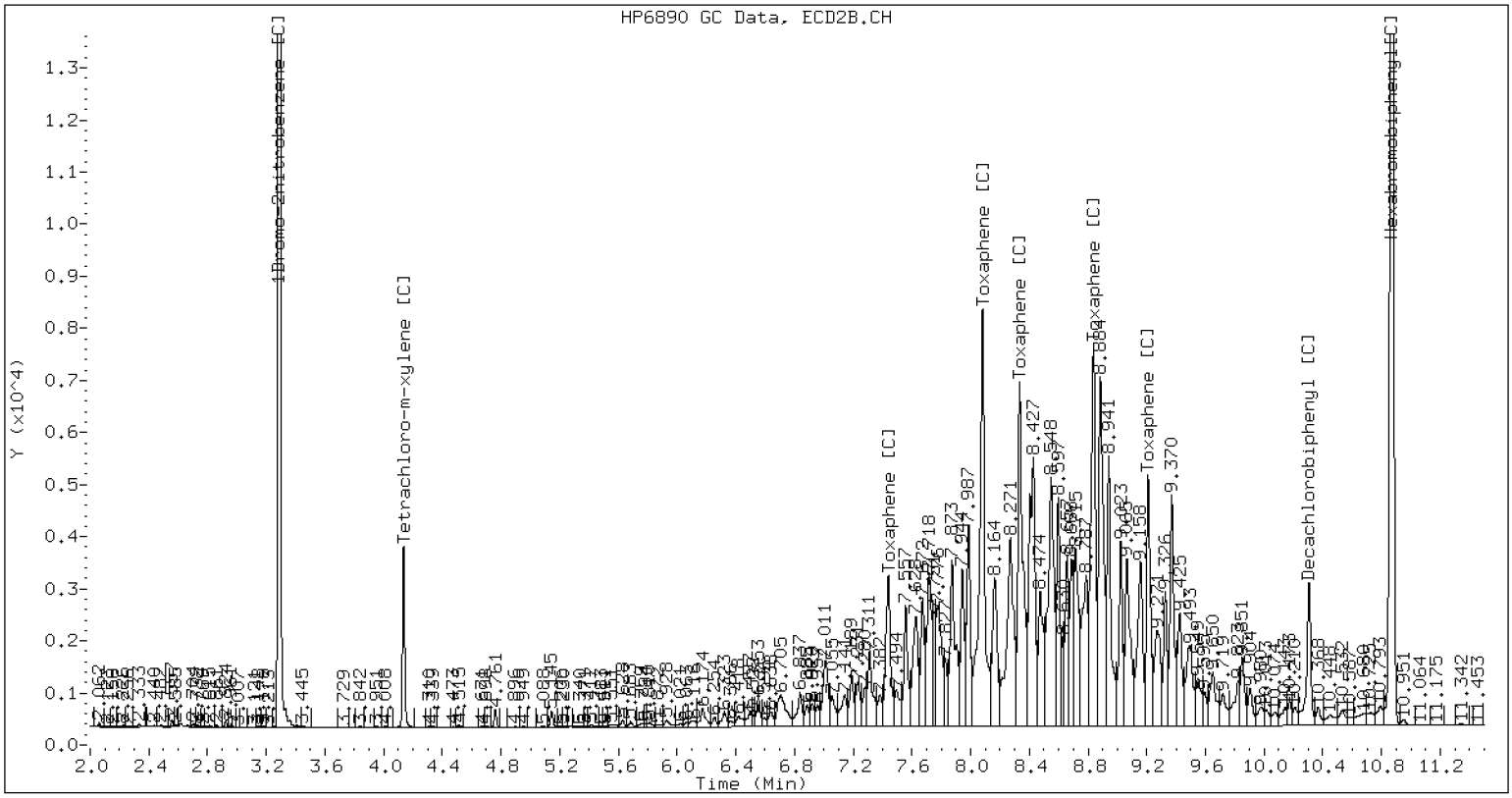


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041220.D SEQ-CALH CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041221.D
Data file 2: /20230412.b/B20230412.b/23041221.D
Method: \20230412.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALI
Client ID:
Injection Date: 12-APR-2023 20:47
Report Date: 04/13/2023 13:06
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.819	0.000	105882	4.136	-0.000	143630	8.24	8.18	0.8	Tetrachloro-m-xylene
9.367	0.001	153784	10.306	0.000	209053	17.55	21.94	22.3	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	918194	6.2
Hexabromobiphenyl	663237	742986	12.0

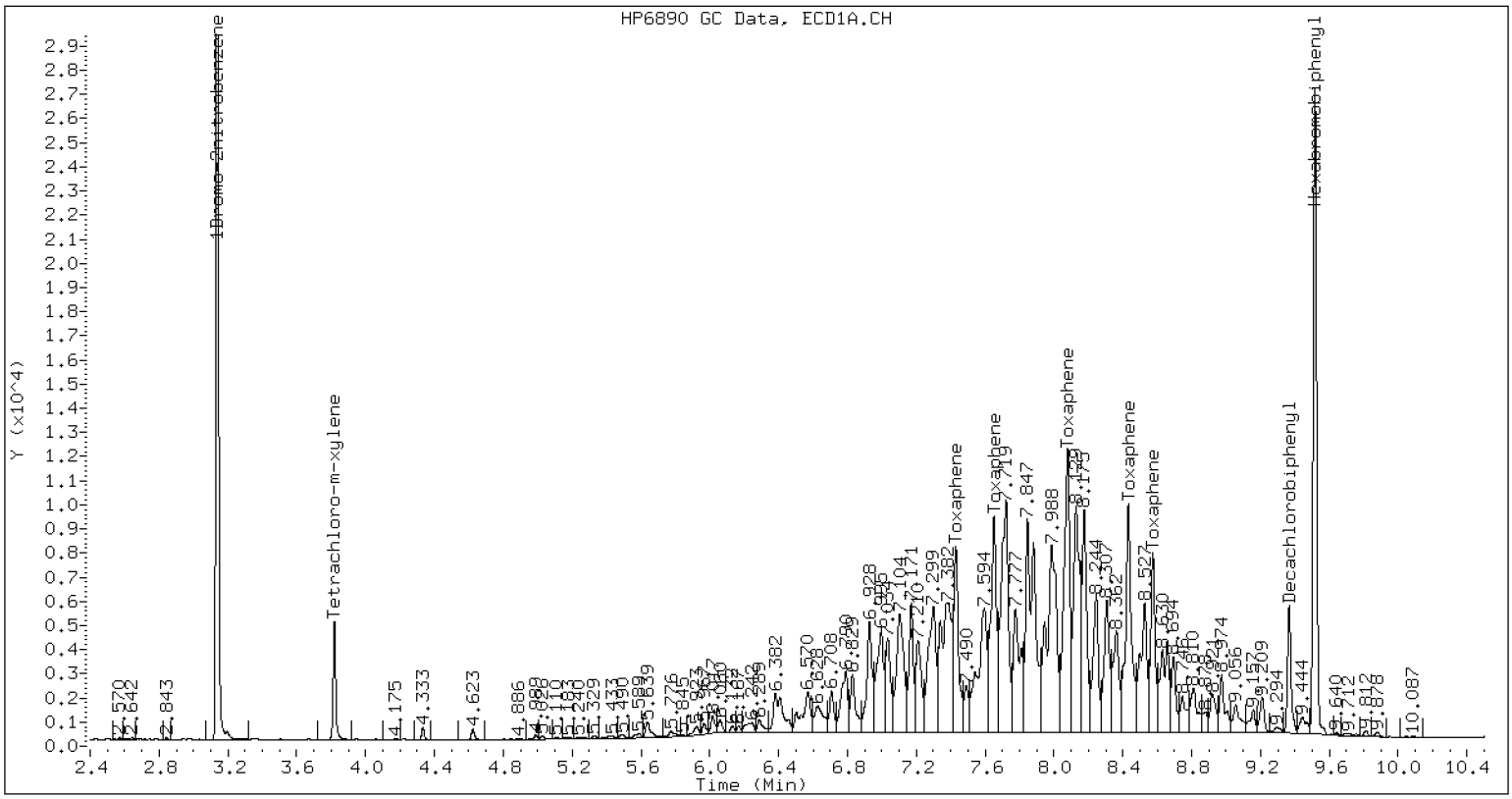
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1277652	-13.7
Hexabromobiphenyl	870561	789338	-9.3

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Toxaphene	1	7.429	-0.001	301979	1098.4	1	7.440	-0.000	262813	1034.2	
Toxaphene	2	7.652	-0.001	416680	1132.3	2	8.081	-0.002	775904	1034.4	
Toxaphene	3	8.078	-0.001	559891	1115.8	3	8.335	-0.001	609018	1039.9	
Toxaphene	4	8.433	-0.000	452584	1144.0	4	8.838	-0.001	645519	1026.4	
Toxaphene	5	8.574	-0.001	277122	1163.4	5	9.210	-0.000	352517	1023.2	
Total STX-CLPAve (5 peaks): 1130.762						Total CLP2Ave (5 peaks): 1031.622					RPD = 9
Corrected Ave (5 peaks): 1130.762						Corrected Ave (5 peaks): 1031.622					RPD = 9

/20230412.b/23041221.D SEQ-CALI STX-CLP 12-APR-2023 20:47 1ul



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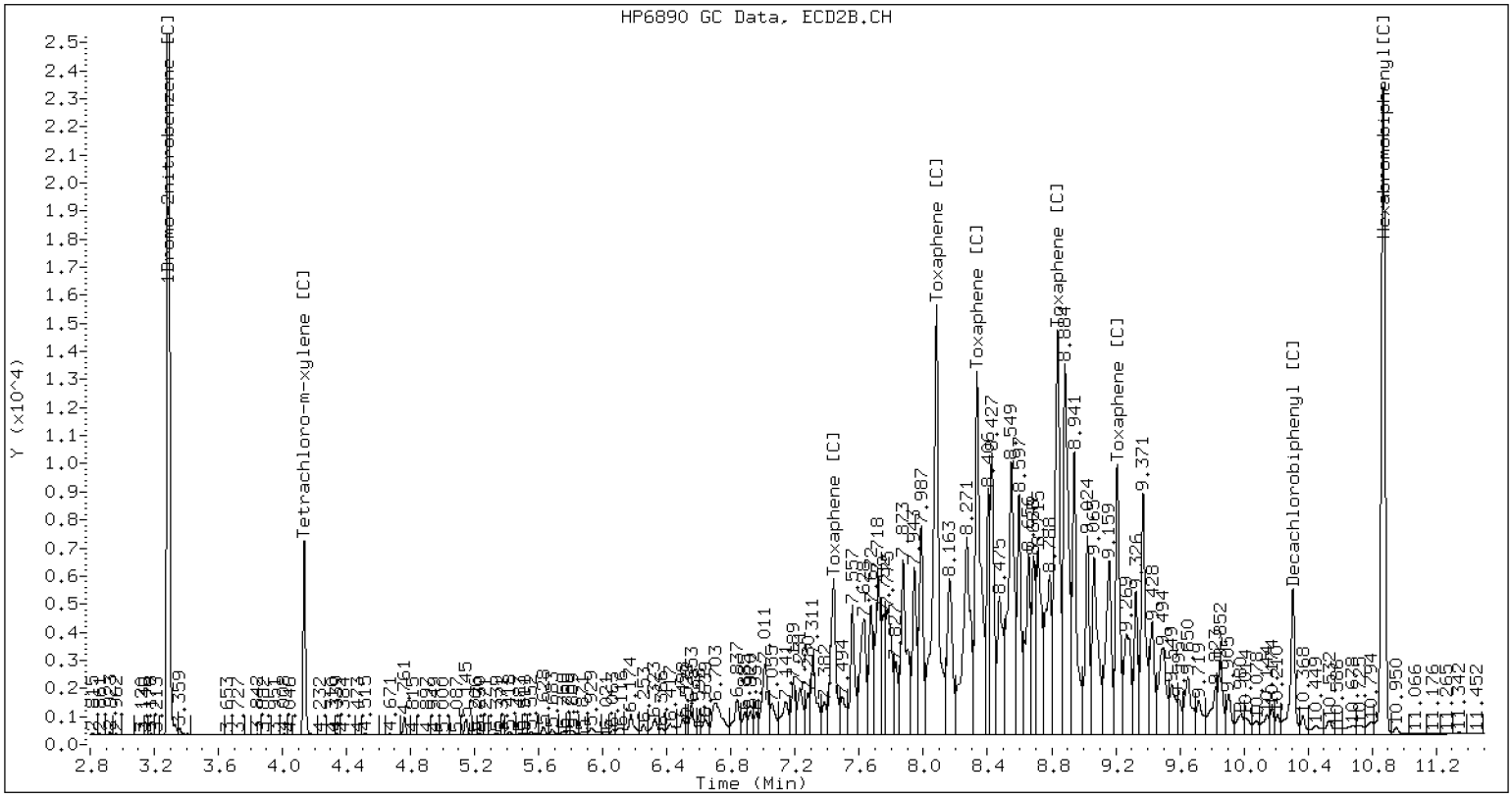
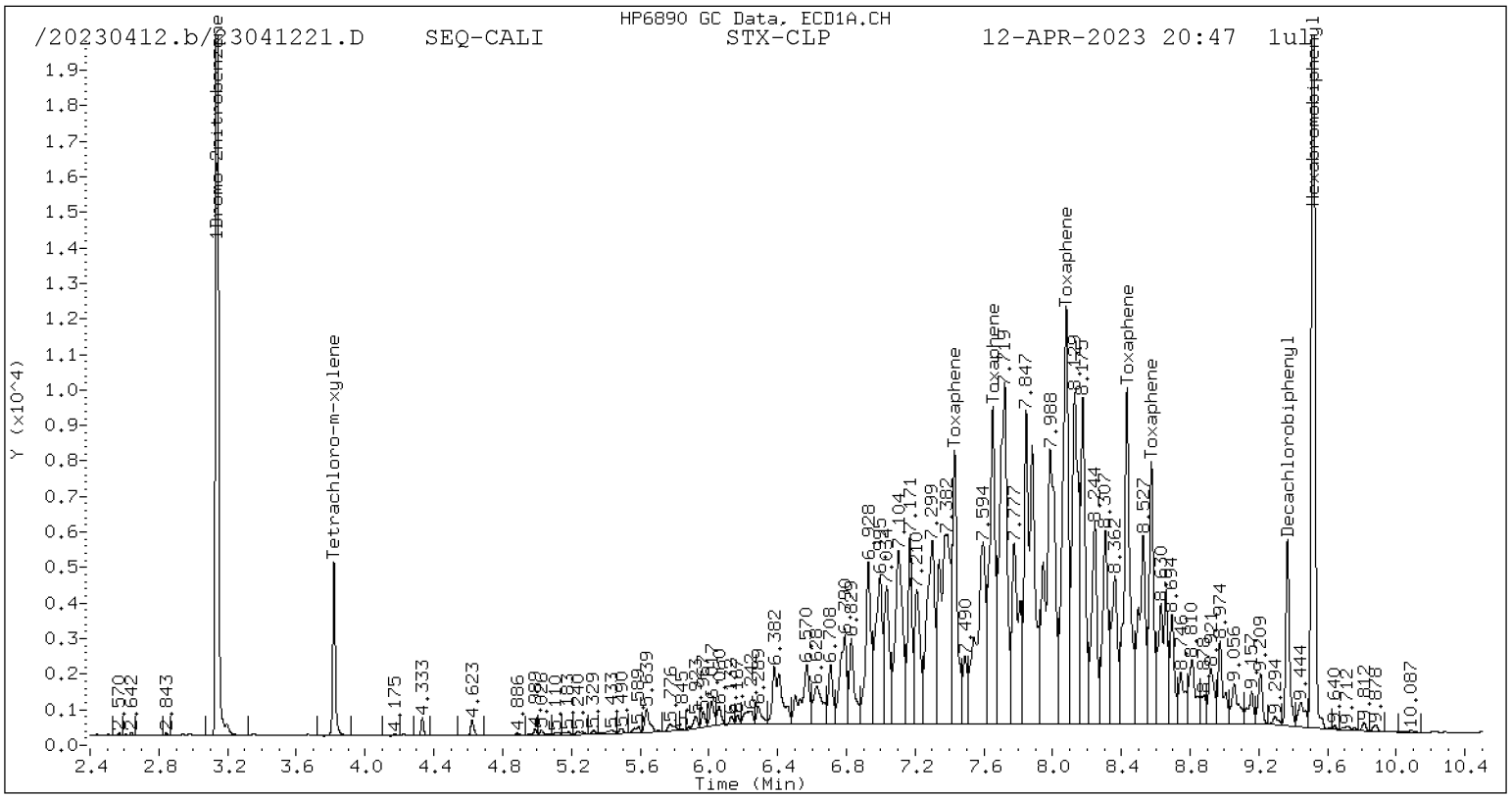
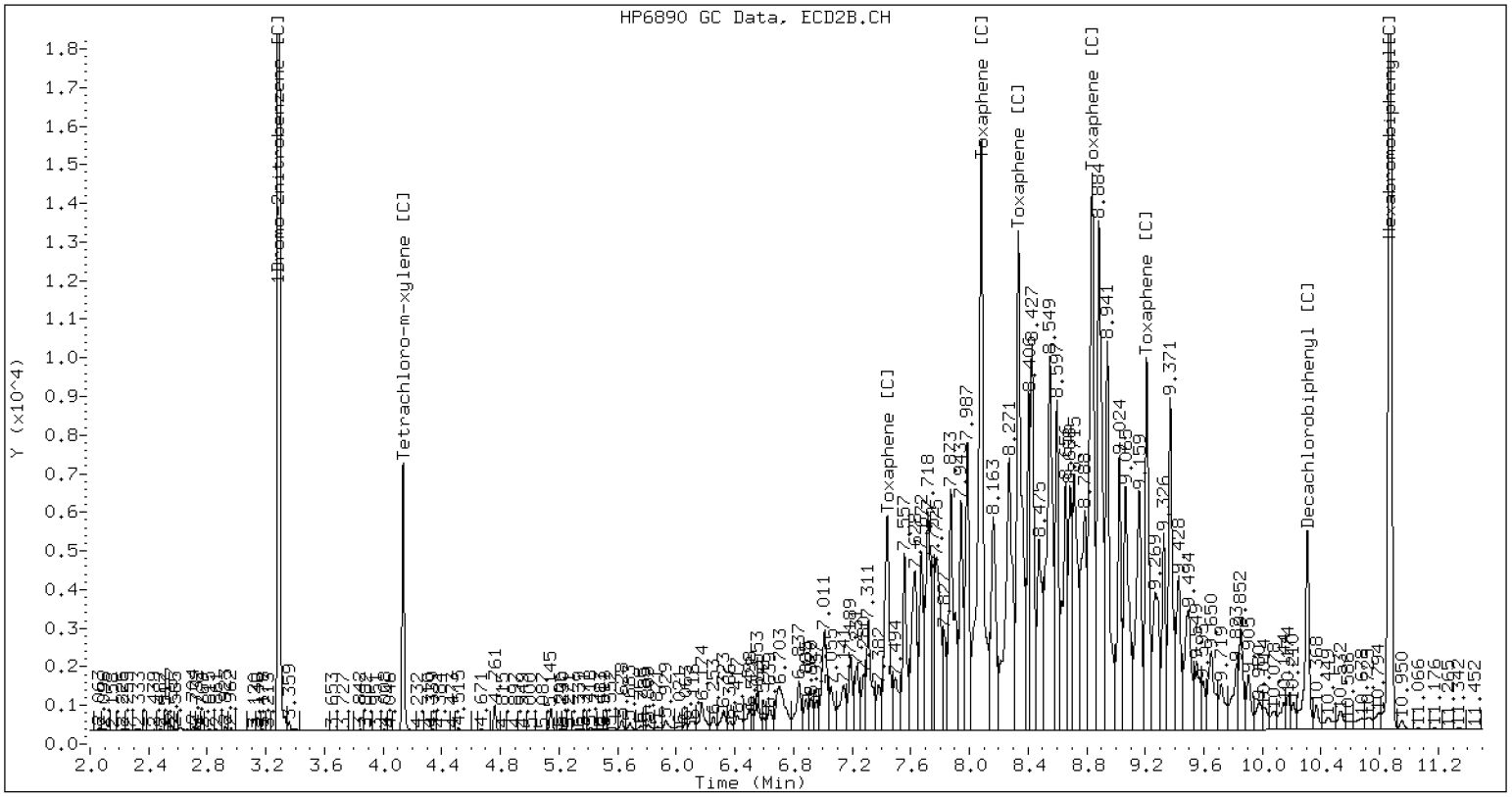


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041221.D SEQ-CALI CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041222.D
Data file 2: /20230412.b/B20230412.b/23041222.D
Method: \20230412.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALJ
Client ID:
Injection Date: 12-APR-2023 21:05
Report Date: 04/13/2023 13:06
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.819	0.000	252501	4.136	-0.000	349014	19.37	19.72	1.8	Tetrachloro-m-xylene
9.367	0.001	411141	10.306	-0.000	491352	42.72	47.90	11.4	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	931444	7.8
Hexabromobiphenyl	663237	816041	23.0

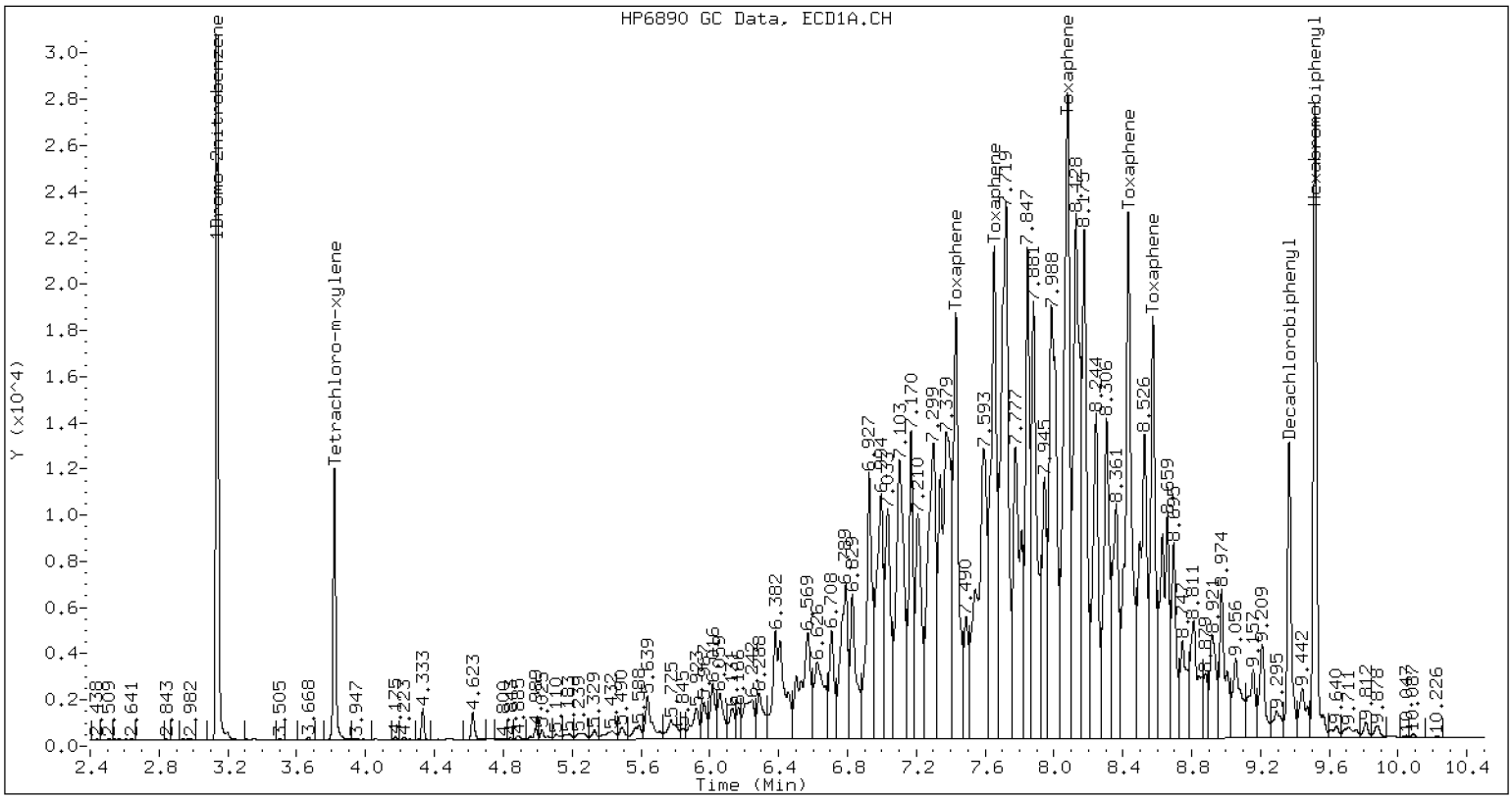
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1287009	-13.1
Hexabromobiphenyl	870561	849848	-2.4

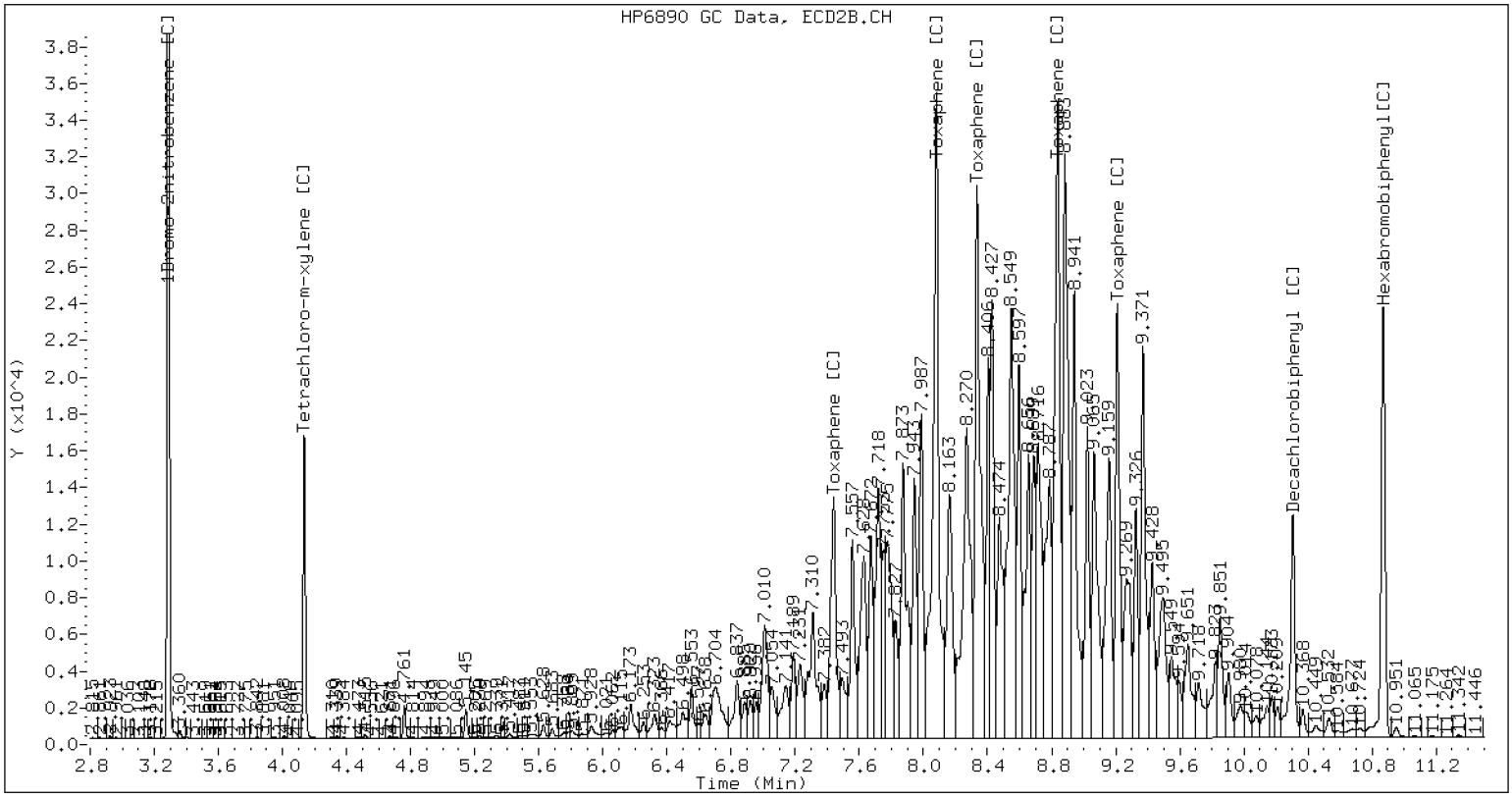
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Toxaphene	1	7.429	-0.001	797088	2639.8	1	7.440	-0.000	629948	2302.4	
Toxaphene	2	7.652	-0.001	1032073	2553.4	2	8.081	-0.002	1823289	2257.7	
Toxaphene	3	8.078	-0.001	1374882	2494.6	3	8.335	-0.001	1449258	2298.5	
Toxaphene	4	8.432	-0.001	1177736	2710.5	4	8.838	-0.001	1557874	2300.6	
Toxaphene	5	8.575	-0.001	709132	2710.4	5	9.210	-0.001	862039	2324.0	
Total STX-CLPAve (5 peaks): 2621.744						Total CLP2Ave (5 peaks): 2296.637					RPD = 13
Corrected Ave (5 peaks): 2621.744						Corrected Ave (5 peaks): 2296.637					RPD = 13

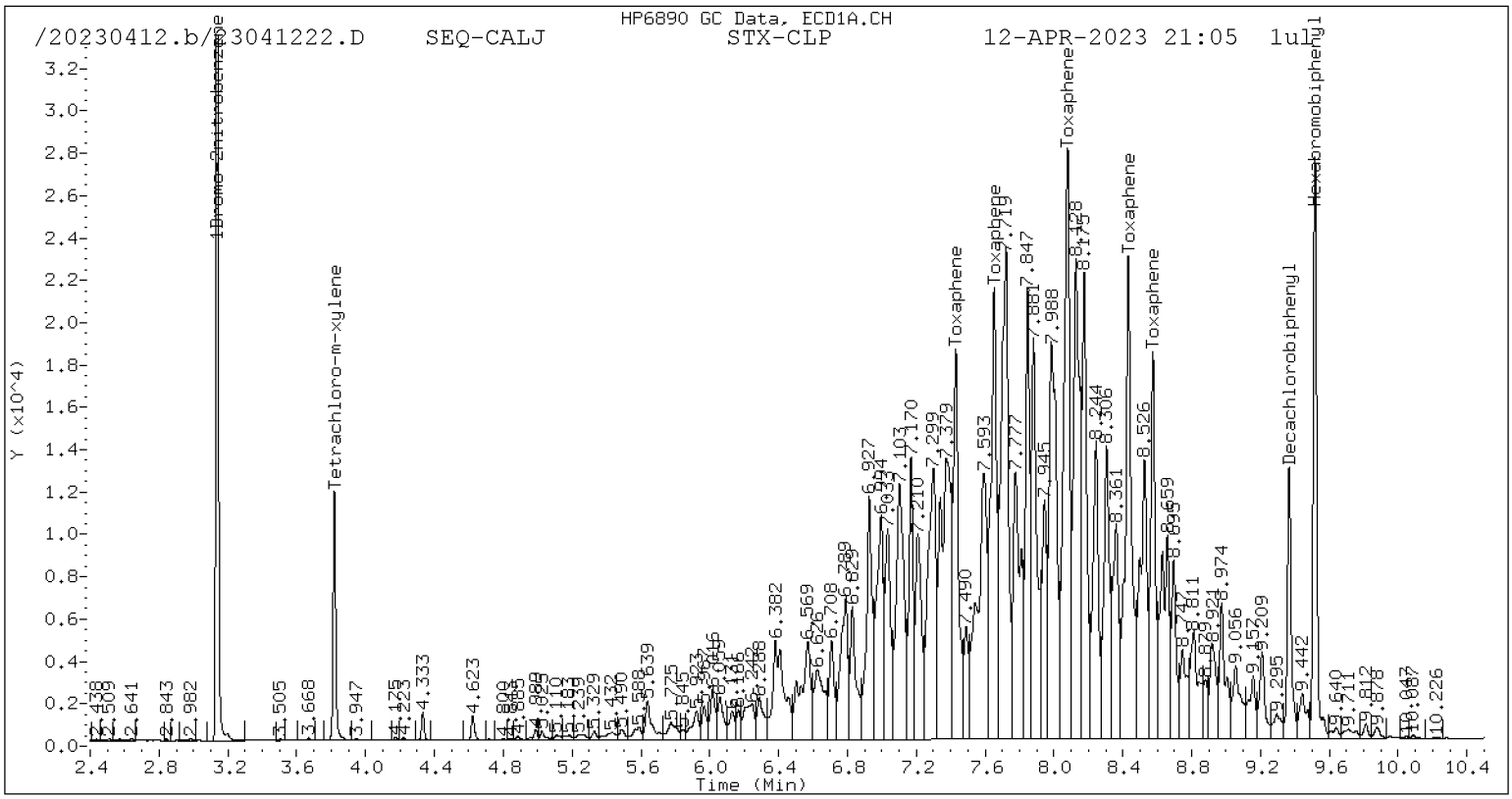
/20230412.b/23041222.D SEQ-CALJ STX-CLP 12-APR-2023 21:05 1ul



/20230412.b/B20230412.b/23041222.D SEQ-CALJ CLP2 12-APR-2023 21:05 1ul

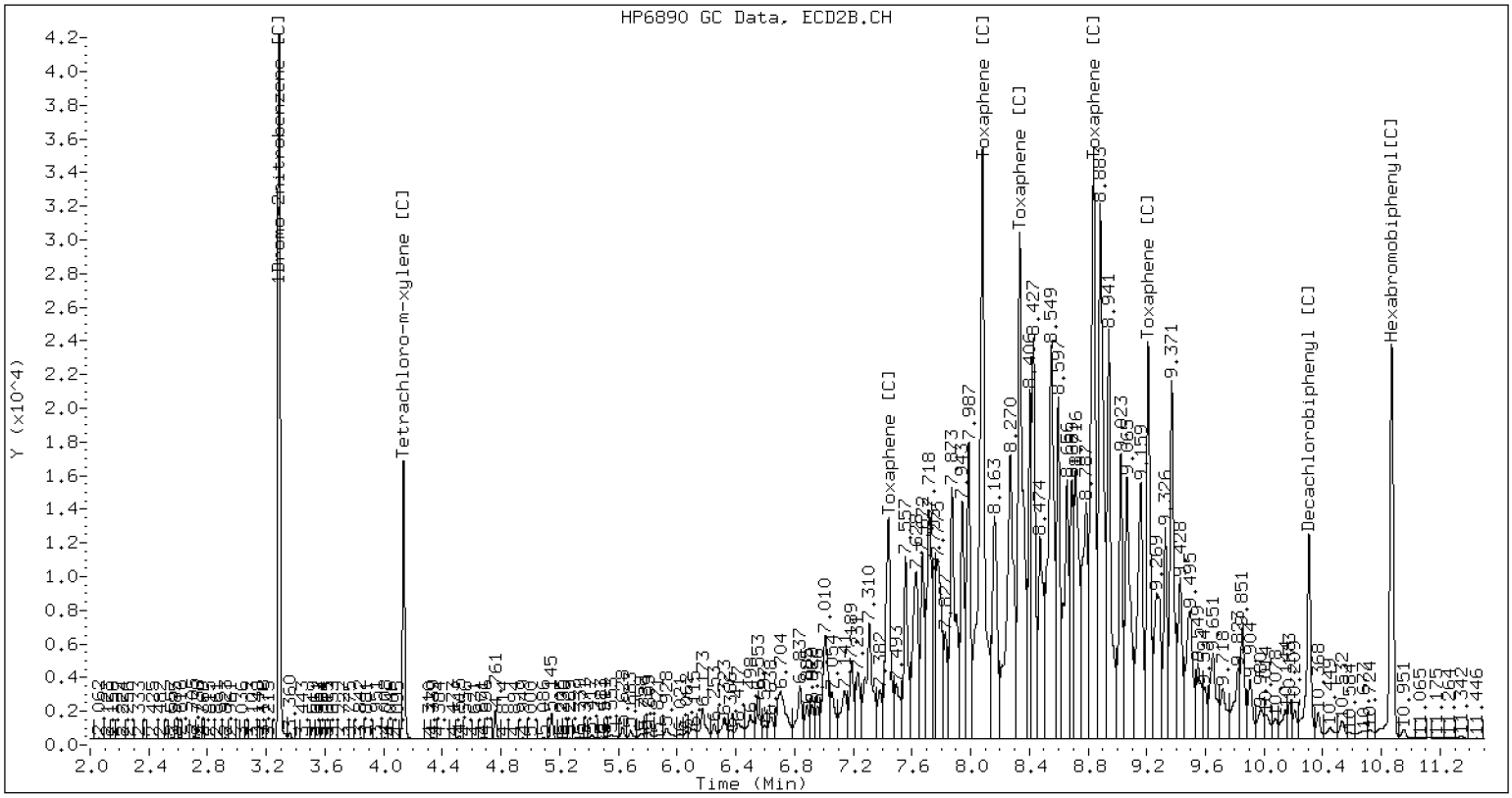


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041222.D SEQ-CALJ CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041223.D
Data file 2: /20230412.b/B20230412.b/23041223.D
Method: \20230412.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALK
Client ID:
Injection Date: 12-APR-2023 21:24
Report Date: 04/13/2023 13:06
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.820	0.001	478616	4.136	-0.000	664045	37.29	37.94	1.7	Tetrachloro-m-xylene
9.367	0.001	786481	10.307	0.001	944710	75.08	93.37	21.7	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	917226	6.1
Hexabromobiphenyl	663237	888107	33.9

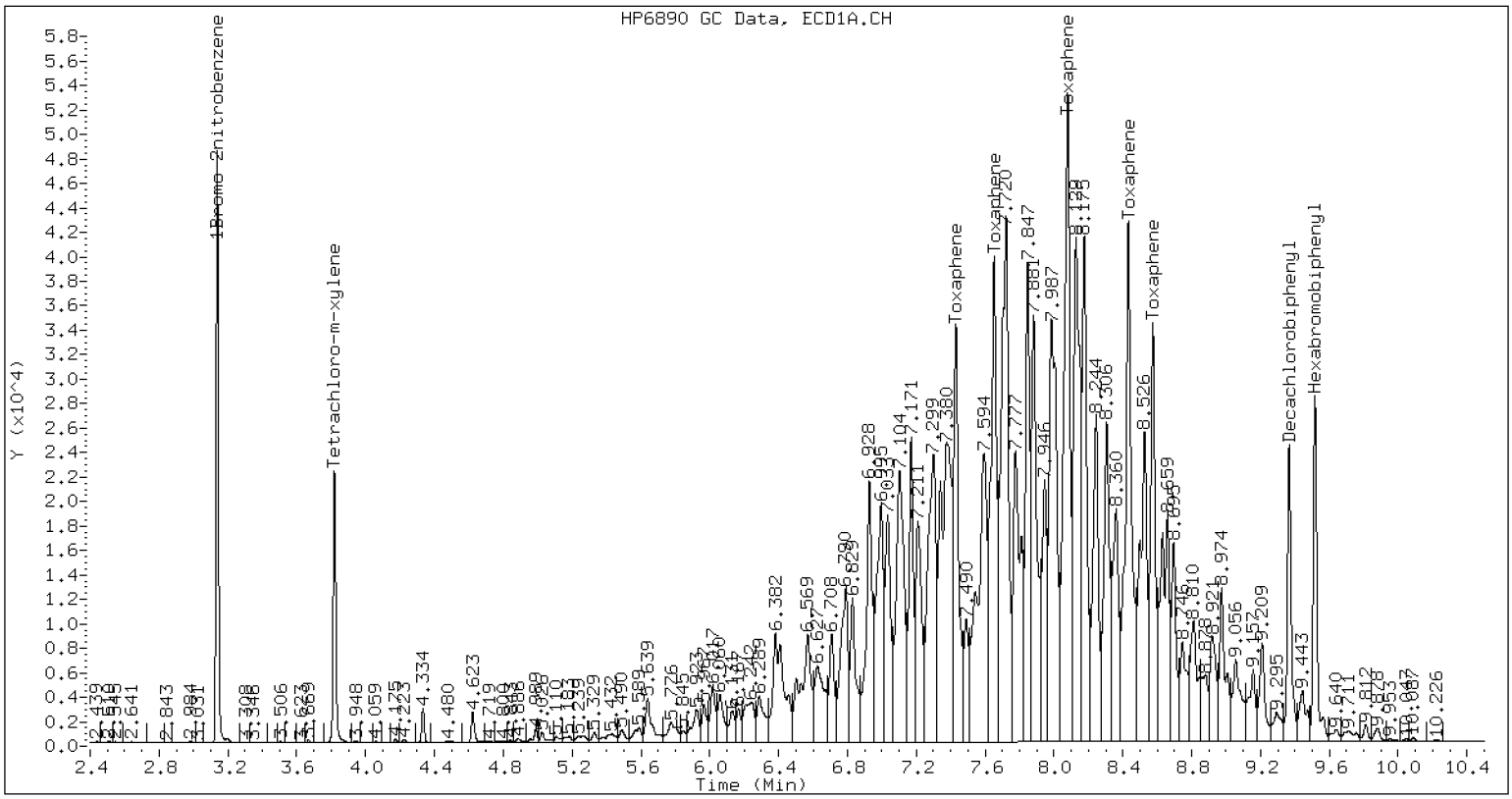
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1272946	-14.0
Hexabromobiphenyl	870561	838283	-3.7

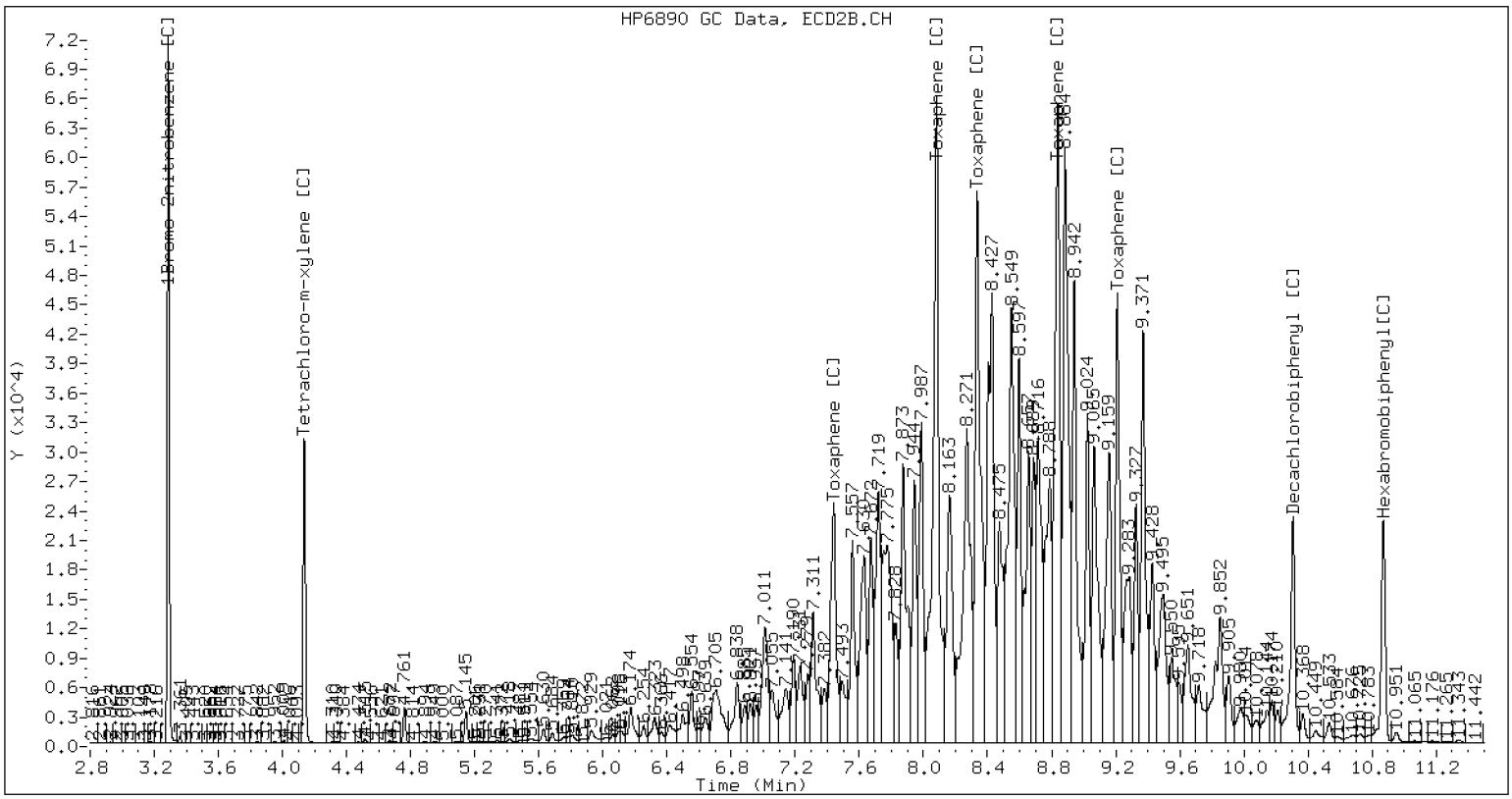
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Toxaphene	1	7.429	-0.001	1418710	4317.2	1	7.440	0.000	1190021	4409.5	
Toxaphene	2	7.652	-0.001	1929987	4387.5	2	8.082	-0.001	3433292	4309.9	
Toxaphene	3	8.079	-0.000	2596396	4328.7	3	8.335	-0.001	2739705	4405.0	
Toxaphene	4	8.432	-0.000	2227368	4710.1	4	8.839	-0.000	2971015	4448.0	
Toxaphene	5	8.575	-0.001	1346952	4730.5	5	9.210	-0.000	1678180	4586.6	
Total STX-CLPAve (5 peaks): 4494.806						Total CLP2Ave (5 peaks): 4431.818				RPD = 1	
Corrected Ave (5 peaks): 4494.806						Corrected Ave (5 peaks): 4431.818				RPD = 1	

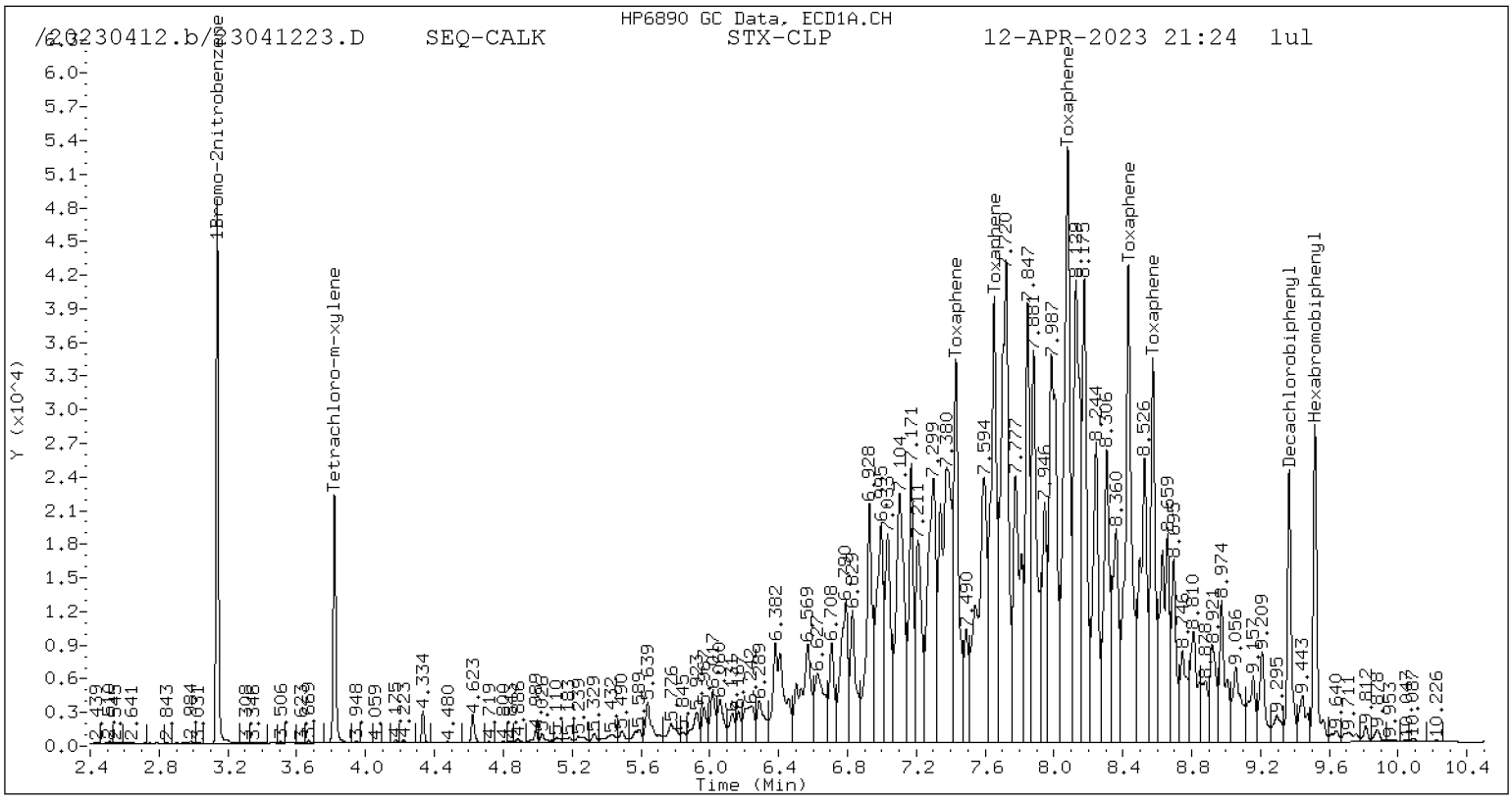
/20230412.b/23041223.D SEQ-CALK STX-CLP 12-APR-2023 21:24 1ul



/20230412.b/B20230412.b/23041223.D SEQ-CALK CLP2 12-APR-2023 21:24 1ul

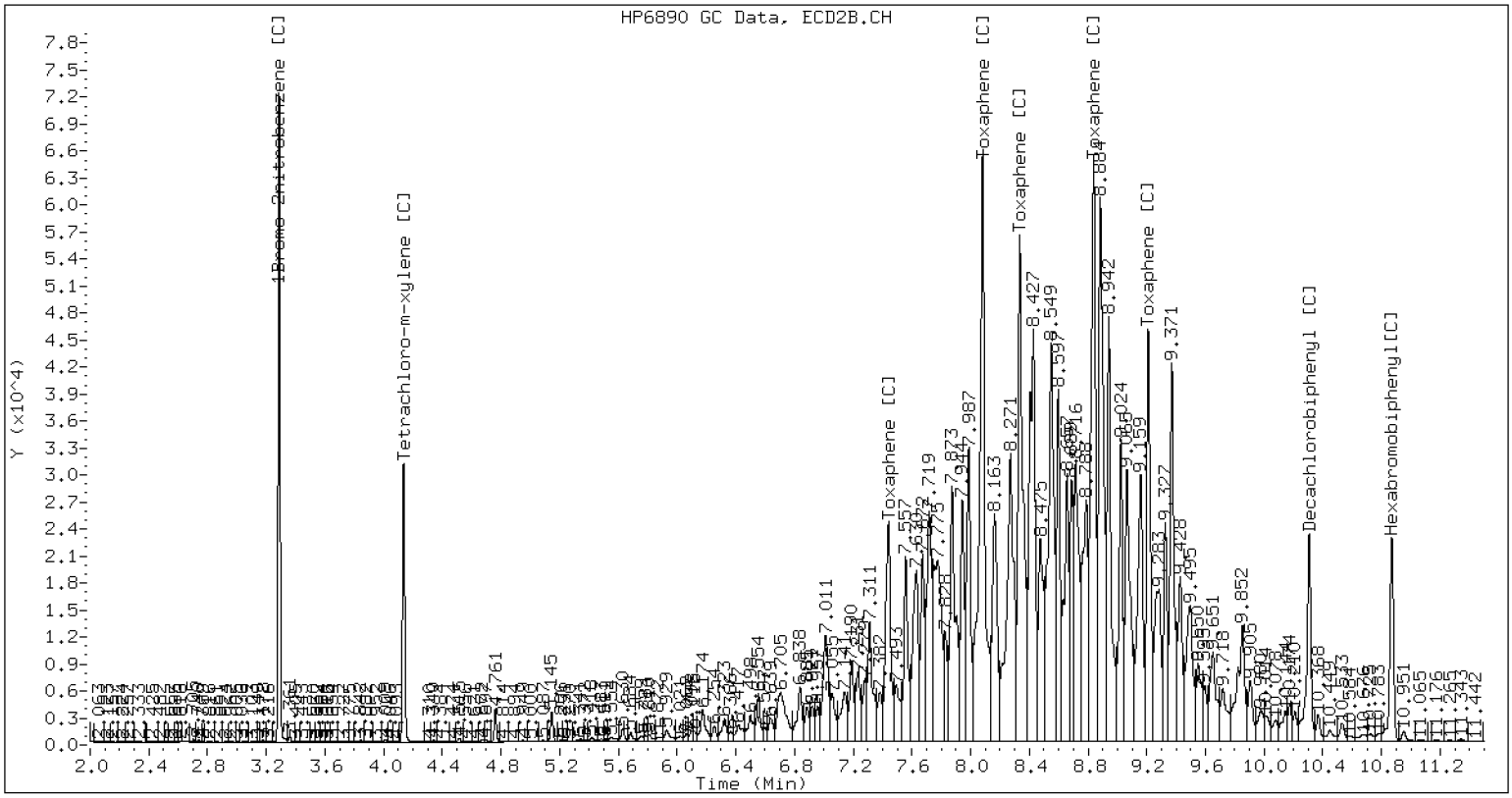


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041223.D SEQ-CALK CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041224.D
Data file 2: /20230412.b/B20230412.b/23041224.D
Method: \20230412.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALL
Client ID:
Injection Date: 12-APR-2023 21:42
Report Date: 04/13/2023 13:06
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.819	0.000	895380	4.136	-0.000	1216061	70.47	70.31	0.2	Tetrachloro-m-xylene
9.366	0.000	1481211	10.306	-0.000	1790917	116.97	168.24	36.0	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	908010	5.1
Hexabromobiphenyl	663237	1073617	61.9

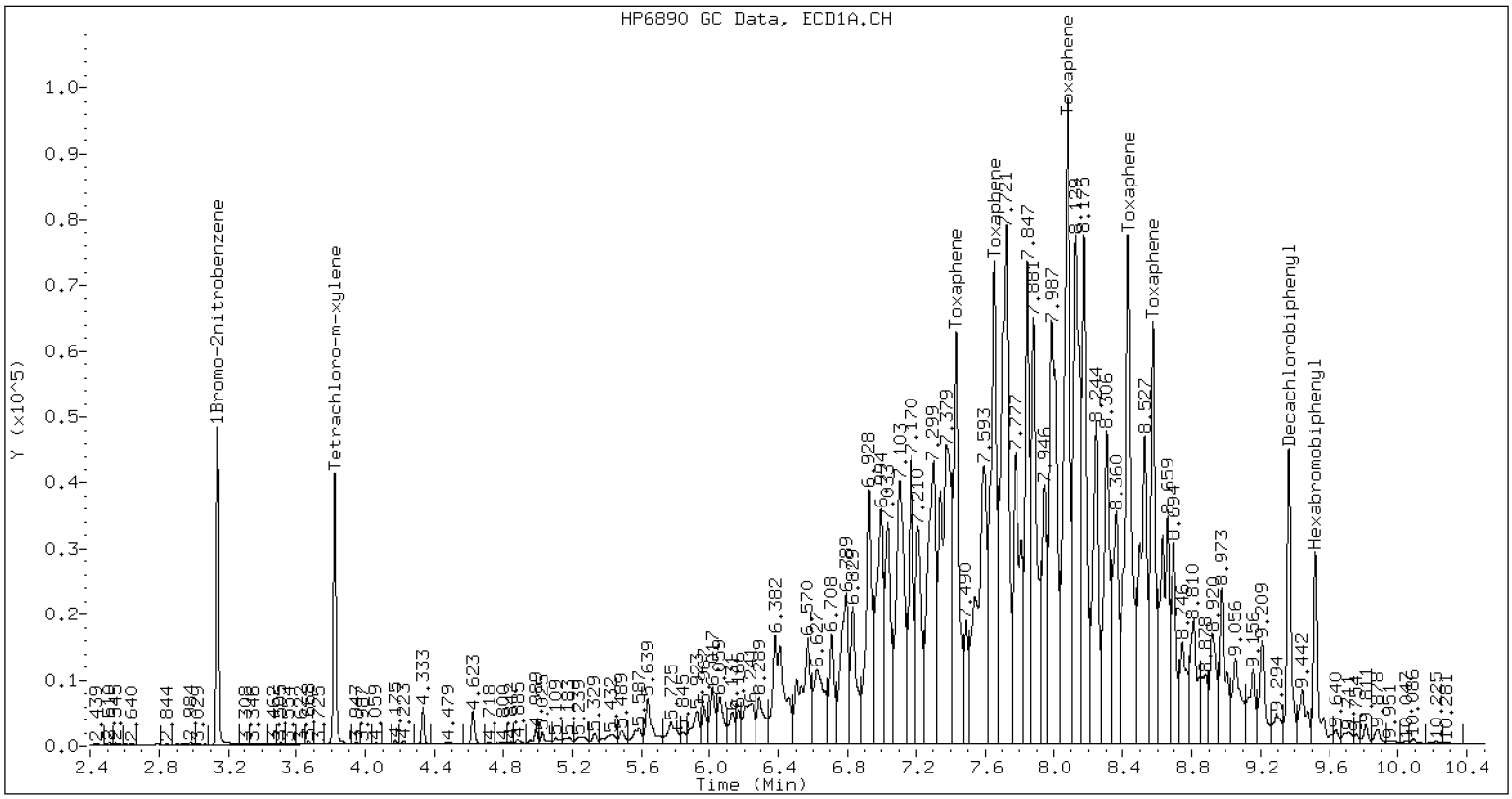
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1257770	-15.1
Hexabromobiphenyl	870561	881950	1.3

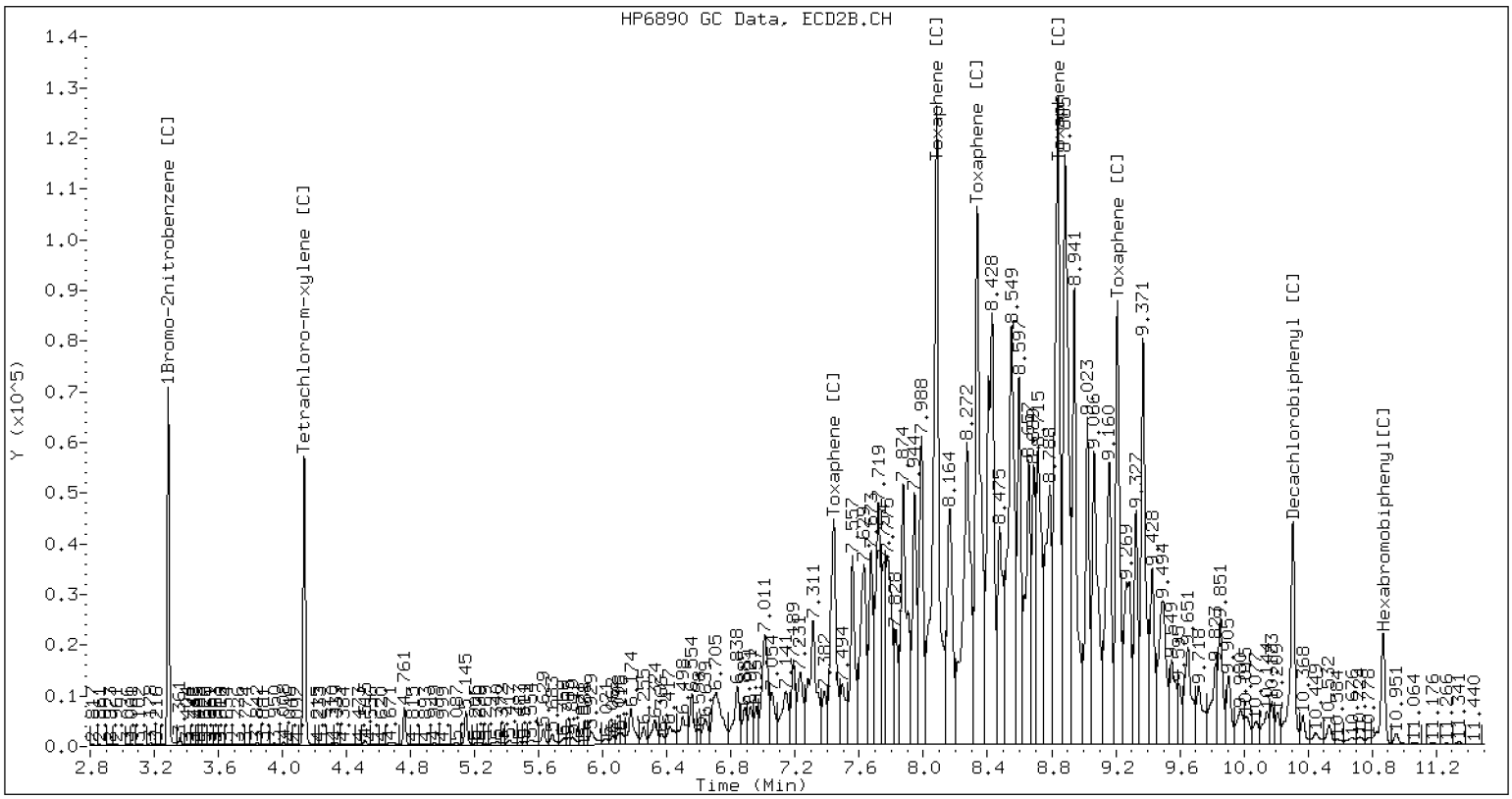
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Toxaphene	1	7.430	-0.000	2786527	7014.4	1	7.440	0.000	2199872	7747.7	
Toxaphene	2	7.652	-0.001	3557899	6690.7	2	8.083	0.000	6483577	7736.1	
Toxaphene	3	8.079	-0.000	4809205	6632.4	3	8.336	-0.000	5124179	7830.9	
Toxaphene	4	8.432	-0.001	4063530	7108.2	4	8.839	0.000	5684314	8088.9	
Toxaphene	5	8.575	-0.001	2519164	7318.6	5	9.210	0.000	3217244	8357.7	
Total STX-CLPAve (5 peaks): 6952.870						Total CLP2Ave (5 peaks): 7952.272					RPD = 13
Corrected Ave (5 peaks): 6952.870						Corrected Ave (5 peaks): 7952.272					RPD = 13

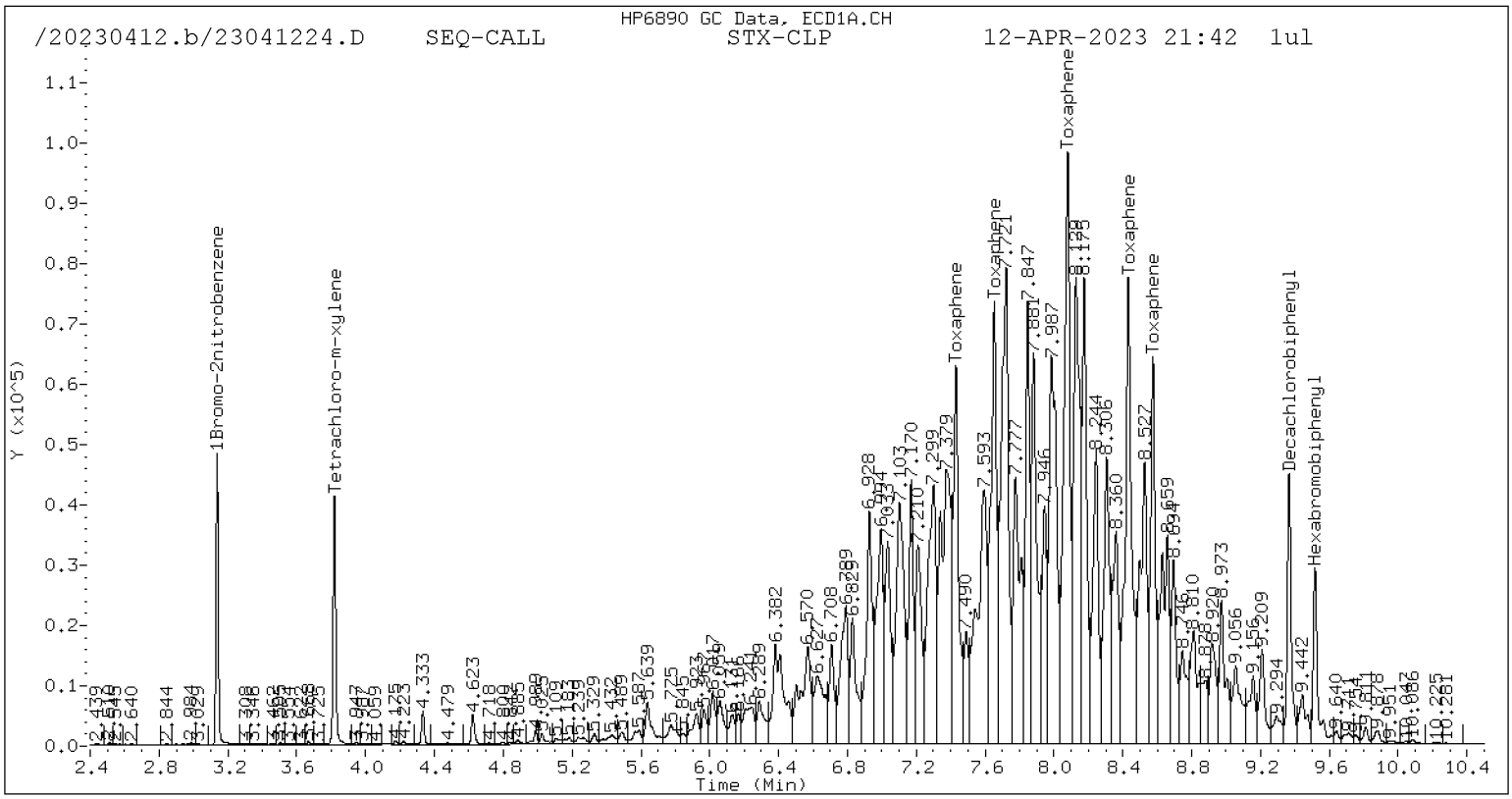
/20230412.b/23041224.D SEQ-CALL STX-CLP 12-APR-2023 21:42 1ul



/20230412.b/B20230412.b/23041224.D SEQ-CALL CLP2 12-APR-2023 21:42 1ul

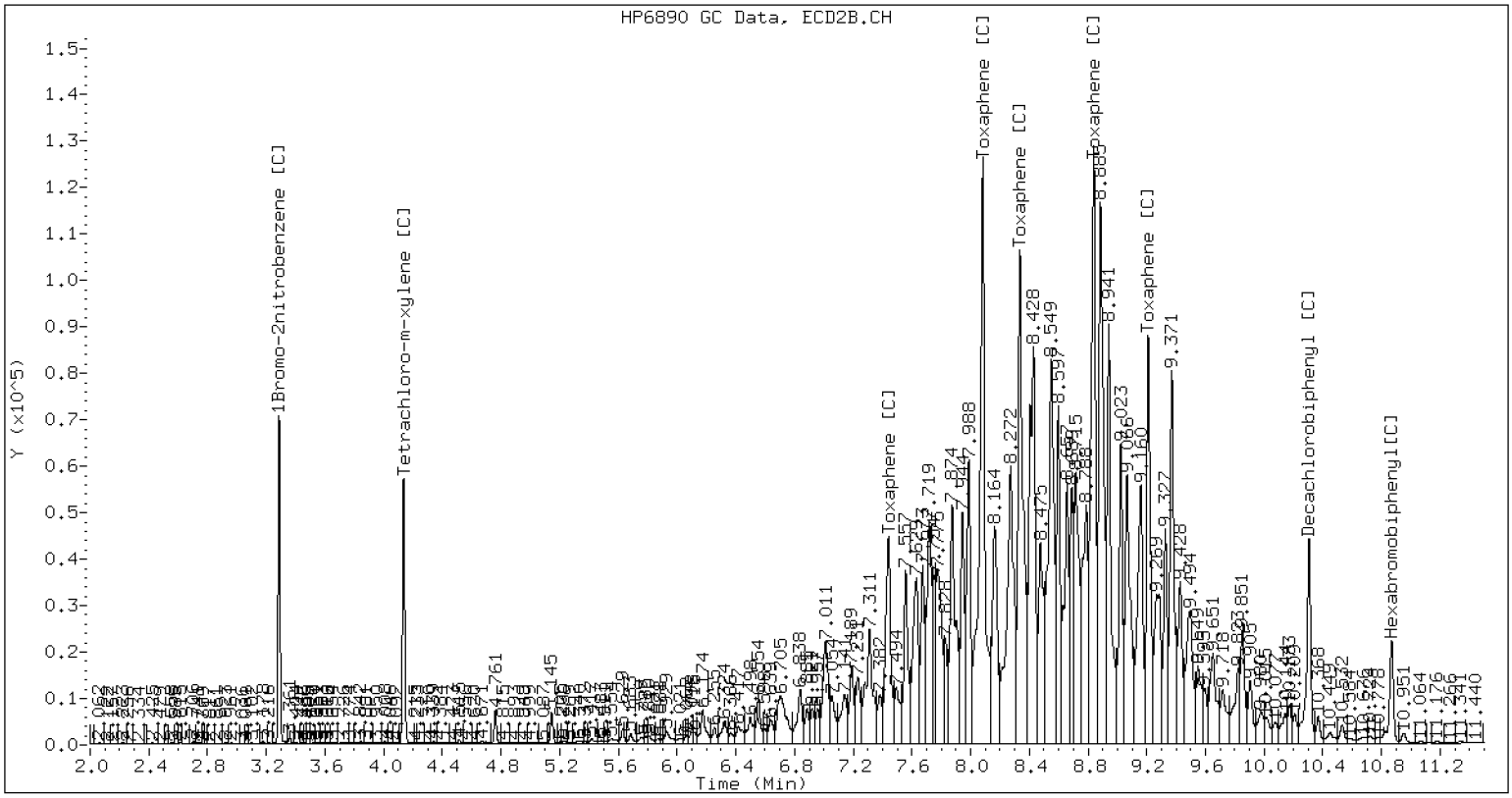


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

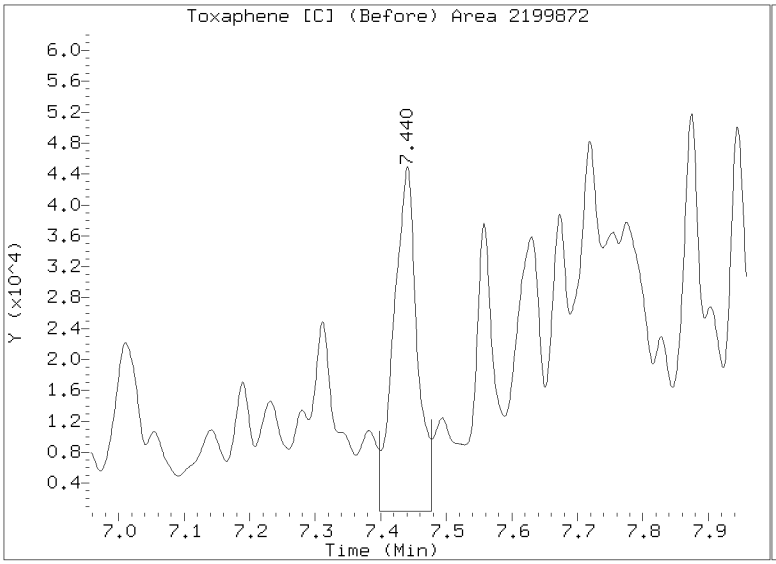
/20230412.b/B20230412.b/23041224.D SEQ-CALL CLP2

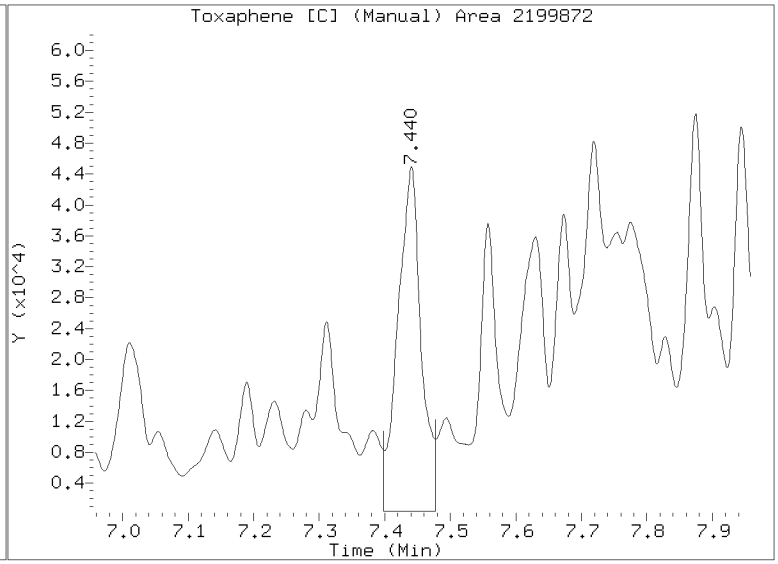


CLP-2 Manual Integration: NO

Manual Peak Adjustment Report, CLP-2

Datafile: /20230412.b/B20230412.b/23041224.D
Injection Date: 12-APR-2023 21:42
Lab ID:SEQ-CALL Client ID:





Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD6	Calibration:	GD00035
Lab File ID:	23041228.D	Calibration Date:	04/12/2023
Sequence:	SLD0187	Injection Date:	04/12/23
Lab Sample ID:	SLD0187-ICV1	Injection Time:	22:55
Sequence Name:	INDA		

		CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Hexachlorobenzene	L	20.000	17.7	1.5480310	1.3661750		-11.7	+/-20	
Hexachlorobenzene [2C]	L	20.000	17.6	1.4821210	1.3050430		-11.9	+/-20	
Decachlorobiphenyl	L	40.000	31.9	0.9435985	0.7530461		-20.2	+/-20	*
Decachlorobiphenyl [2C]	L	40.000	33.5	0.9656082	0.8094568		-16.2	+/-20	
Tetrachlorometaxylene	L	40.000	35.4	1.1193850	0.9917150		-11.4	+/-20	
Tetrachlorometaxylene [2C]	L	40.000	35.8	1.1000560	0.9834952		-10.6	+/-20	

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041228.D
Data file 2: /20230412.b/B20230412.b/23041228.D
Method: \20230412.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-ICV1
Client ID:
Injection Date: 12-APR-2023 22:55
Report Date: 04/14/2023 08:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.334	0.001	207474	4.761	-0.001	284638	17.97	18.02	0.3	alpha-BHC
4.718	0.001	79749	5.229	-0.001	108826	17.30	17.35	0.3	beta-BHC
4.902	0.001	188168	5.577	-0.000	236979	18.00	16.85	6.6	delta-BHC
4.637	0.000	181942	5.151	-0.001	248772	17.93	17.92	0.1	gamma-BHC (Lindane)
5.125	0.001	169303	5.671	-0.000	221956	18.03	18.23	1.1	Heptachlor
5.449	0.001	171374	6.070	-0.001	227085	17.94	17.96	0.1	Aldrin
6.125	0.000	147922	6.728	-0.001	191017	17.16	17.17	0.0	Heptachlor epoxide b
6.568	0.001	138197	7.172	-0.000	168955	17.98	17.82	0.9	Endosulfan I
6.828	0.000	292815	7.466	0.000	372477	36.01	35.84	0.5	Dieldrin
6.490	0.001	275927	7.257	0.000	356702	35.98	36.06	0.2	4,4'-DDE
7.079	0.001	245544	7.789	-0.001	306841	33.13	32.56	1.7	Endrin
7.314	0.000	244805	8.000	-0.001	303230	35.28	34.06	3.5	Endosulfan II
7.137	0.001	235742	7.862	-0.000	294896	35.44	34.23	3.5	4,4'-DDD
8.178	0.001	226658	8.597	-0.001	277723	34.64	33.88	2.2	Endosulfan sulfate
7.431	0.000	252763	8.180	-0.001	301143	35.28	34.65	1.8	4,4'-DDT
7.920	-0.000	503445	8.820	-0.002	607472	164.03	163.00	0.6	Methoxychlor
8.452	0.000	256795	9.119	-0.000	304196	34.40	33.98	1.2	Endrin ketone
7.743	-0.000	185676	8.331	-0.000	217531	35.06	33.79	3.7	Endrin aldehyde
6.267	0.001	150498	6.939	0.000	188905	17.84	17.70	0.8	trans-Chlordane
6.414	0.001	150678	7.099	-0.001	185516	17.79	17.66	0.8	cis-Chlordane
2.309	-0.000	207080	2.453	-0.000	181778	17.39	12.68	31.4	Hexachlorobutadiene
4.175	0.000	180316	4.622	0.000	242905	17.65	17.61	0.2	Hexachlorobenzene
3.820	0.001	261785	4.136	-0.000	366112	35.44	35.76	0.9	Tetrachloro-m-xylene
9.366	0.000	161464	10.306	0.000	189508	31.92	33.53	4.9	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

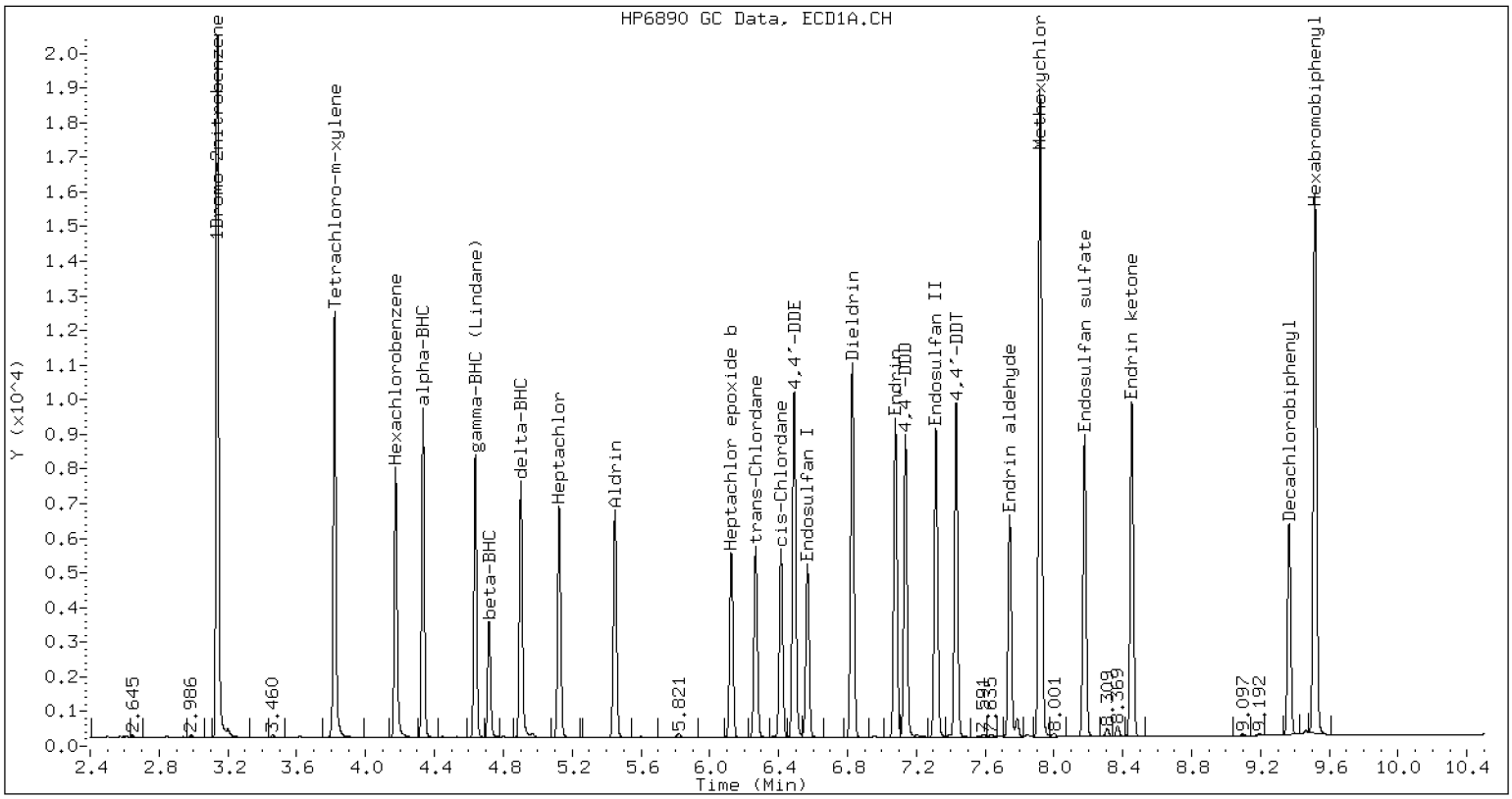
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	527944	-38.9
Hexabromobiphenyl	663237	428829	-35.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	744512	-49.7
Hexabromobiphenyl	870561	468235	-46.2

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

/20230412.b/23041228.D SEQ-ICV1 STX-CLP 12-APR-2023 22:55 1ul



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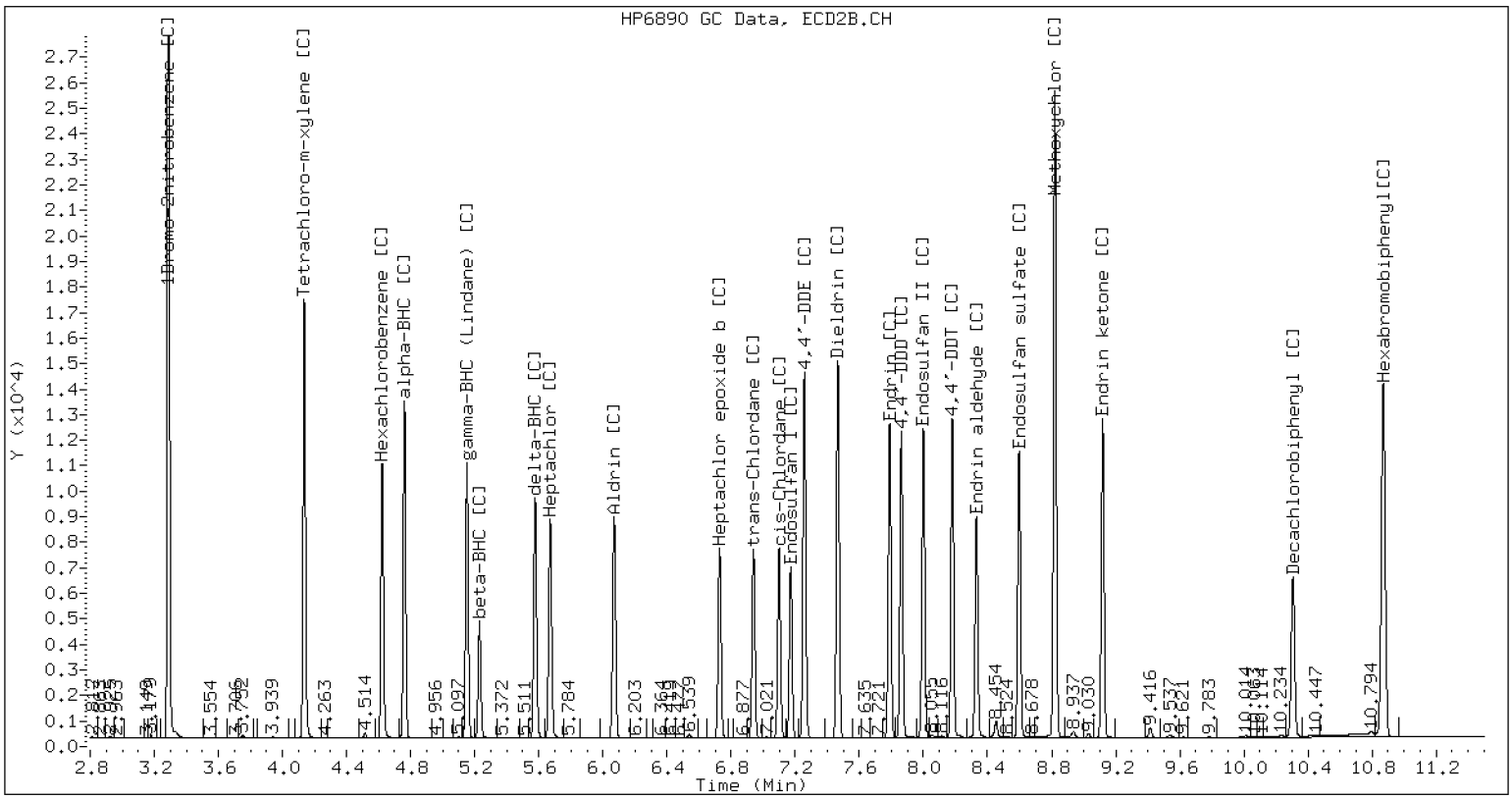
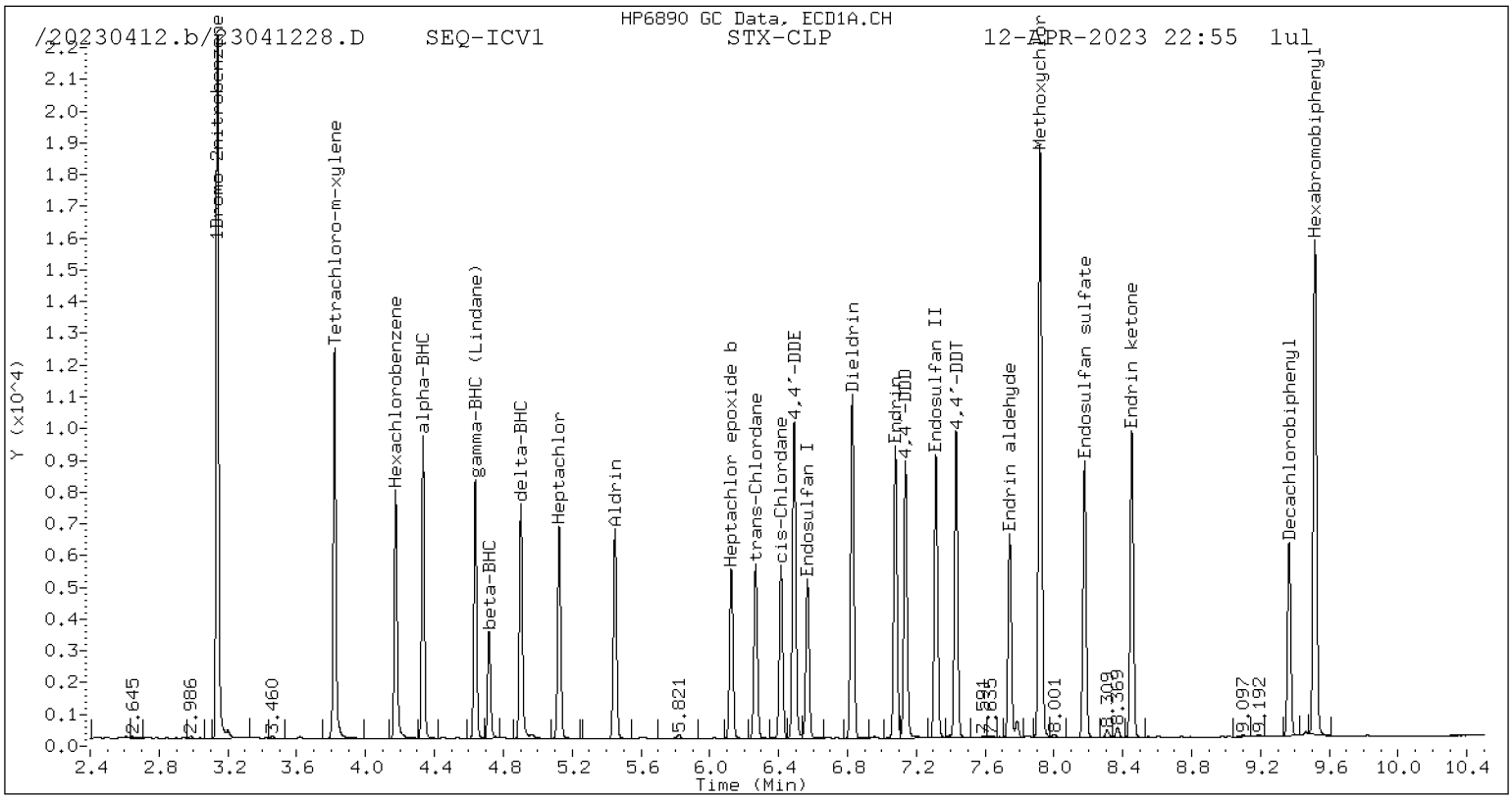
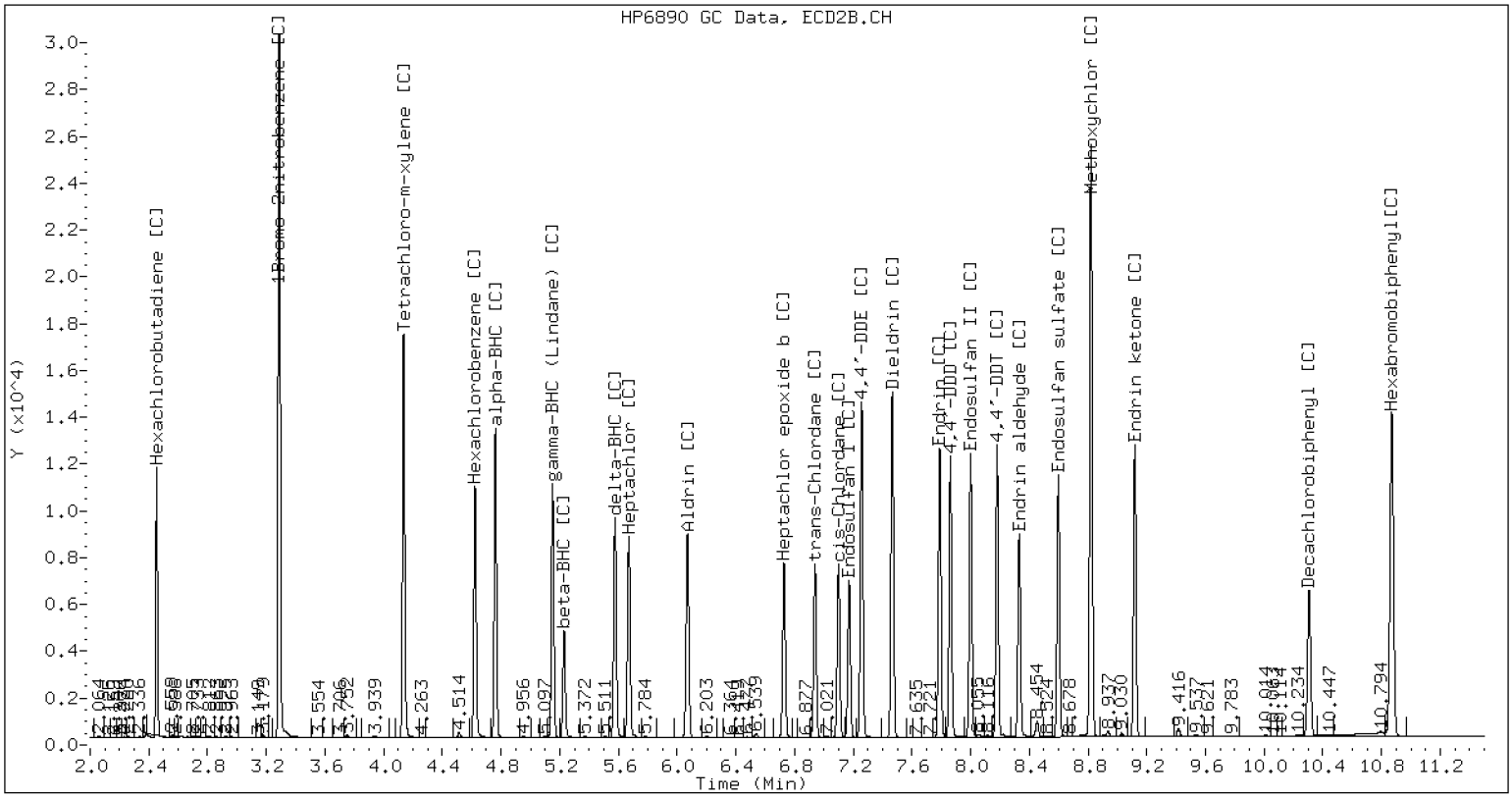


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041228.D SEQ-ICV1 CLP2



CLP-2 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD6	Calibration:	GD00035
Lab File ID:	23041235.D	Calibration Date:	04/12/2023
Sequence:	SLD0187	Injection Date:	04/13/23
Lab Sample ID:	SLD0187-CCV1	Injection Time:	01:04
Sequence Name:	INDA		

		CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Hexachlorobenzene	L	20.000	17.7	1.5480310	1.3705910		-11.5	+/-20	
Hexachlorobenzene [2C]	L	20.000	17.6	1.4821210	1.3041330		-12.0	+/-20	
Decachlorobiphenyl	L	40.000	31.5	0.9435985	0.7437408		-21.2	+/-20	*
Decachlorobiphenyl [2C]	L	40.000	33.7	0.9656082	0.8132911		-15.8	+/-20	
Tetrachlorometaxylene	L	40.000	35.5	1.1193850	0.9929160		-11.3	+/-20	
Tetrachlorometaxylene [2C]	L	40.000	35.7	1.1000560	0.9804321		-10.9	+/-20	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041235.D
Data file 2: /20230412.b/B20230412.b/23041235.D
Method: \20230412.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CCV1
Client ID:
Injection Date: 13-APR-2023 01:04
Report Date: 04/14/2023 08:21
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.333	0.000	208008	4.761	-0.001	287888	18.06	18.02	0.2	alpha-BHC
4.717	0.000	79862	5.229	-0.001	109669	17.36	17.28	0.5	beta-BHC
4.902	0.001	188433	5.576	-0.001	237187	18.07	16.67	8.0	delta-BHC
4.636	-0.001	182247	5.151	-0.001	252117	18.00	17.94	0.3	gamma-BHC (Lindane)
5.124	0.000	169287	5.670	-0.001	224742	18.07	18.24	0.9	Heptachlor
5.448	0.000	171419	6.070	-0.001	229274	17.99	17.93	0.3	Aldrin
6.124	-0.001	148660	6.728	-0.001	192857	17.28	17.13	0.9	Heptachlor epoxide b
6.566	-0.001	138285	7.171	-0.001	170414	18.03	17.76	1.5	Endosulfan I
6.827	-0.001	293527	7.465	-0.001	375070	36.17	35.67	1.4	Dieldrin
6.489	-0.000	275619	7.256	-0.001	359780	36.02	35.95	0.2	4,4'-DDE
7.078	-0.000	245317	7.788	-0.002	307967	32.47	32.73	0.8	Endrin
7.313	-0.001	244401	7.999	-0.002	305137	34.55	34.32	0.6	Endosulfan II
7.136	0.000	235703	7.861	-0.001	297615	34.76	34.60	0.5	4,4'-DDD
8.177	-0.000	226454	8.596	-0.002	280518	33.95	34.27	0.9	Endosulfan sulfate
7.430	-0.001	252702	8.179	-0.002	304879	34.60	35.13	1.5	4,4'-DDT
7.918	-0.002	503978	8.819	-0.003	618699	161.08	166.25	3.2	Methoxychlor
8.451	-0.001	257108	9.118	-0.001	308074	33.78	34.46	2.0	Endrin ketone
7.742	-0.001	185692	8.330	-0.001	219950	34.39	34.22	0.5	Endrin aldehyde
6.266	-0.000	150597	6.938	-0.001	190549	17.89	17.65	1.4	trans-Chlordane
6.413	-0.000	150637	7.099	-0.001	186807	17.83	17.57	1.4	cis-Chlordane
2.309	-0.000	206970	2.453	-0.000	178864	17.42	12.33	34.2	Hexachlorobutadiene
4.175	-0.000	180515	4.622	-0.000	245593	17.71	17.60	0.6	Hexachlorobenzene
3.820	0.001	261546	4.136	-0.000	369268	35.48	35.65	0.5	Tetrachloro-m-xylene
9.366	-0.000	162565	10.304	-0.002	190132	31.53	33.69	6.6	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

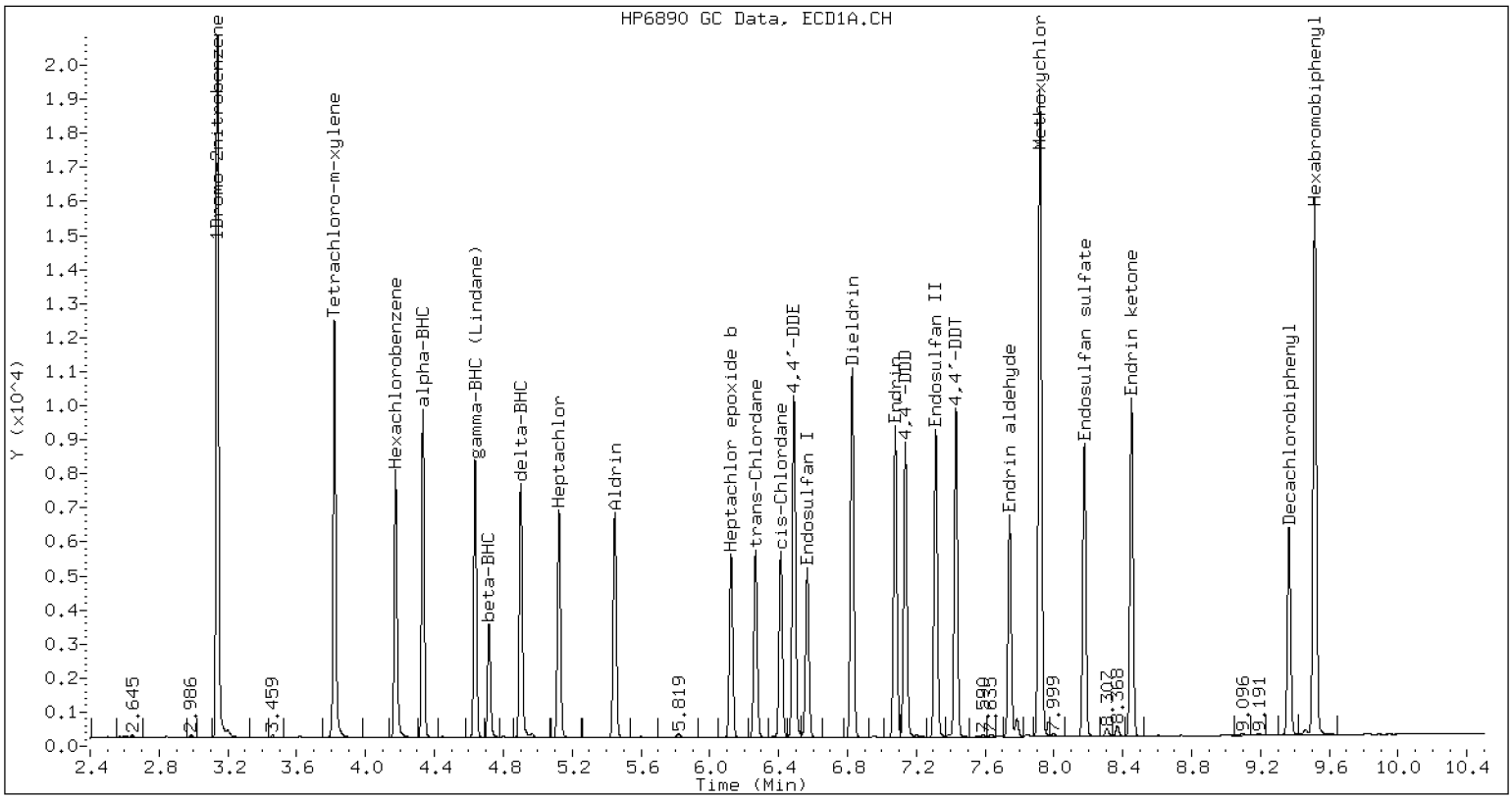
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	526824	-39.0
Hexabromobiphenyl	663237	437155	-34.1

Column 2

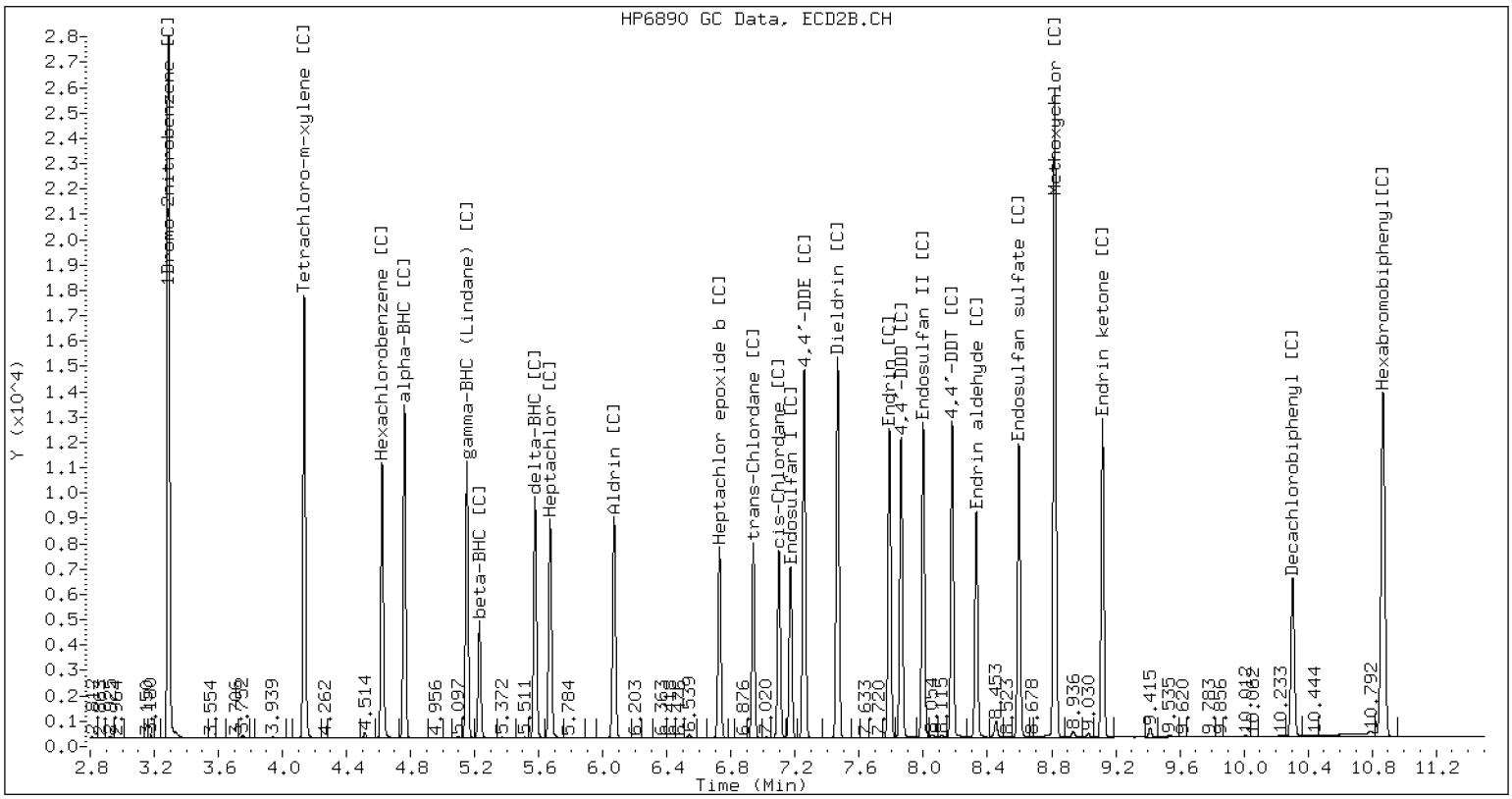
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	753276	-49.1
Hexabromobiphenyl	870561	467562	-46.3

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

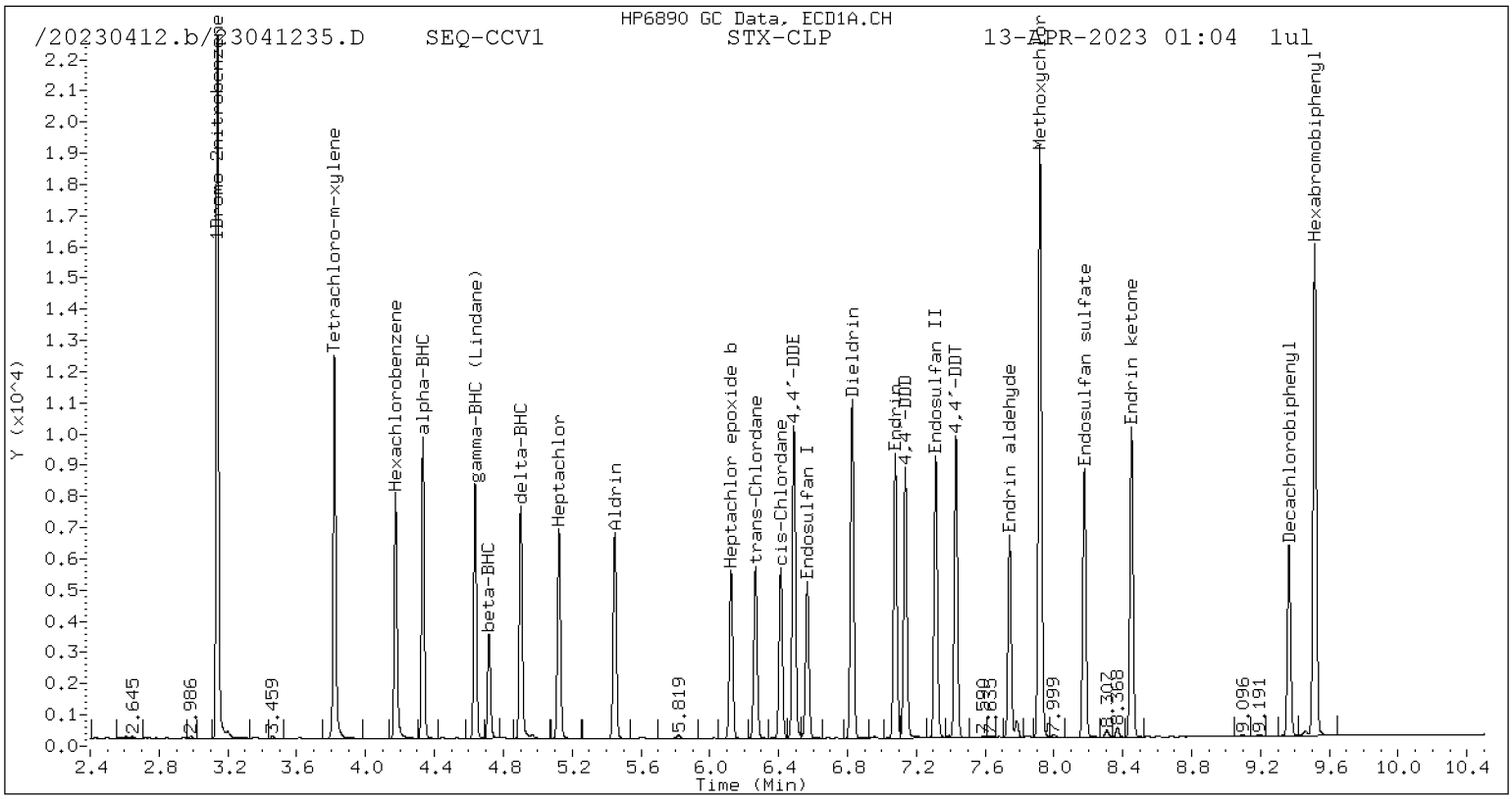
/20230412.b/23041235.D SEQ-CCV1 STX-CLP 13-APR-2023 01:04 1ul



/20230412.b/B20230412.b/23041235.D SEQ-CCV1 CLP2 13-APR-2023 01:04 1ul

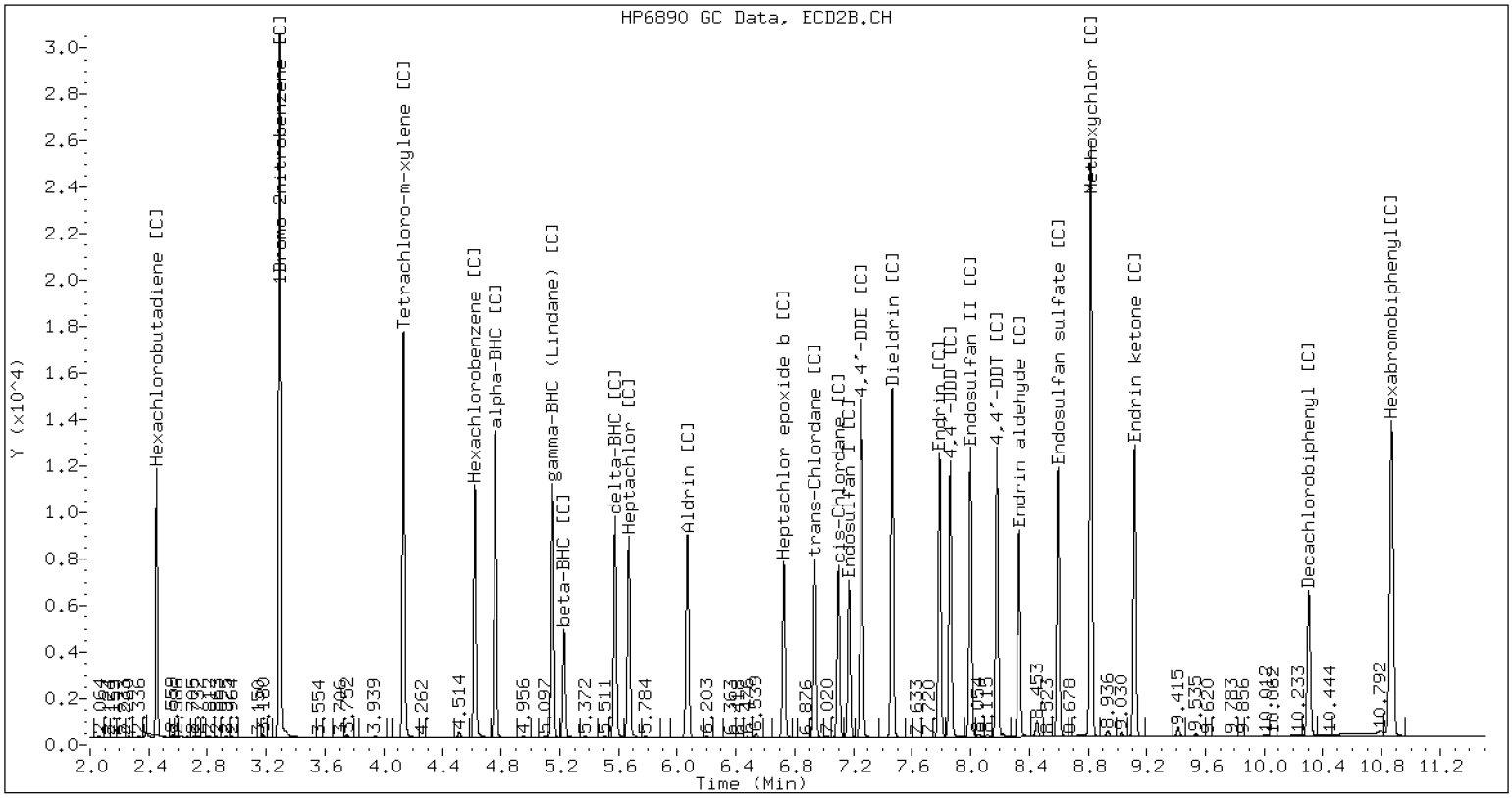


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041235.D SEQ-CCV1 CLP2



CLP-2 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD6	Calibration:	GD00035
Lab File ID:	23041248.D	Calibration Date:	04/12/2023
Sequence:	SLD0187	Injection Date:	04/13/23
Lab Sample ID:	SLD0187-CCV3	Injection Time:	05:02
Sequence Name:	IND		

		CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Hexachlorobenzene	L	20.000	17.8	1.5480310	1.3747790		-11.2	+/-20
Hexachlorobenzene [2C]	L	20.000	17.7	1.4821210	1.3086090		-11.7	+/-20
Decachlorobiphenyl	L	40.000	32.0	0.9435985	0.7557123		-19.9	+/-20
Decachlorobiphenyl [2C]	L	40.000	33.2	0.9656082	0.8019952		-16.9	+/-20
Tetrachlorometaxylene	L	40.000	35.0	1.1193850	0.9801358		-12.4	+/-20
Tetrachlorometaxylene [2C]	L	40.000	35.4	1.1000560	0.9739955		-11.5	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041248.D
Data file 2: /20230412.b/B20230412.b/23041248.D
Method: \20230412.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CCV3
Client ID:
Injection Date: 13-APR-2023 05:02
Report Date: 04/14/2023 08:21
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.332	-0.001	398685	4.760	-0.002	555893	18.74	18.72	0.1	alpha-BHC
4.716	-0.001	152584	5.228	-0.002	209059	17.96	17.73	1.3	beta-BHC
4.900	-0.001	362676	5.576	-0.001	434239	18.83	16.43	13.6	delta-BHC
4.636	-0.001	349756	5.150	-0.002	487231	18.71	18.67	0.2	gamma-BHC (Lindane)
5.124	-0.000	316417	5.670	-0.001	424911	18.29	18.56	1.5	Heptachlor
5.448	-0.000	324679	6.069	-0.002	433886	18.45	18.26	1.0	Aldrin
6.123	-0.002	272947	6.727	-0.002	357314	17.18	17.08	0.6	Heptachlor epoxide b
6.566	-0.001	253392	7.170	-0.002	306412	17.89	17.19	4.0	Endosulfan I
6.826	-0.002	535637	7.465	-0.001	674155	35.74	34.51	3.5	Dieldrin
6.488	-0.001	510730	7.255	-0.002	638535	36.14	34.34	5.1	4,4'-DDE
7.077	-0.001	456787	7.788	-0.002	553069	35.85	33.59	6.5	Endrin
7.313	-0.001	432854	7.999	-0.002	538123	36.28	34.59	4.8	Endosulfan II
7.135	-0.001	423321	7.860	-0.002	527635	37.02	35.05	5.5	4,4'-DDD
8.175	-0.002	396797	8.596	-0.002	494824	35.27	34.54	2.1	Endosulfan sulfate
7.429	-0.002	464474	8.179	-0.002	544065	37.71	35.82	5.1	4,4'-DDT
7.917	-0.003	906784	8.819	-0.003	1094069	171.84	168.00	2.3	Methoxychlor
8.450	-0.002	448505	9.118	-0.001	545419	34.94	34.87	0.2	Endrin ketone
7.741	-0.002	325137	8.330	-0.001	379052	35.70	33.70	5.8	Endrin aldehyde
6.265	-0.001	282540	6.938	-0.001	353629	18.17	17.63	3.0	trans-Chlordane
6.412	-0.001	280428	7.097	-0.003	339343	17.97	17.18	4.5	cis-Chlordane
2.308	-0.001	389291	2.452	-0.001	303783	17.74	11.27	44.6*	Hexachlorobutadiene
4.174	-0.001	334417	4.621	-0.001	457821	17.76	17.66	0.6	Hexachlorobenzene
3.818	-0.001	476839	4.135	-0.001	681511	35.02	35.42	1.1	Tetrachloro-m-xylene
9.365	-0.001	278599	10.304	-0.002	328089	32.04	33.22	3.6	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

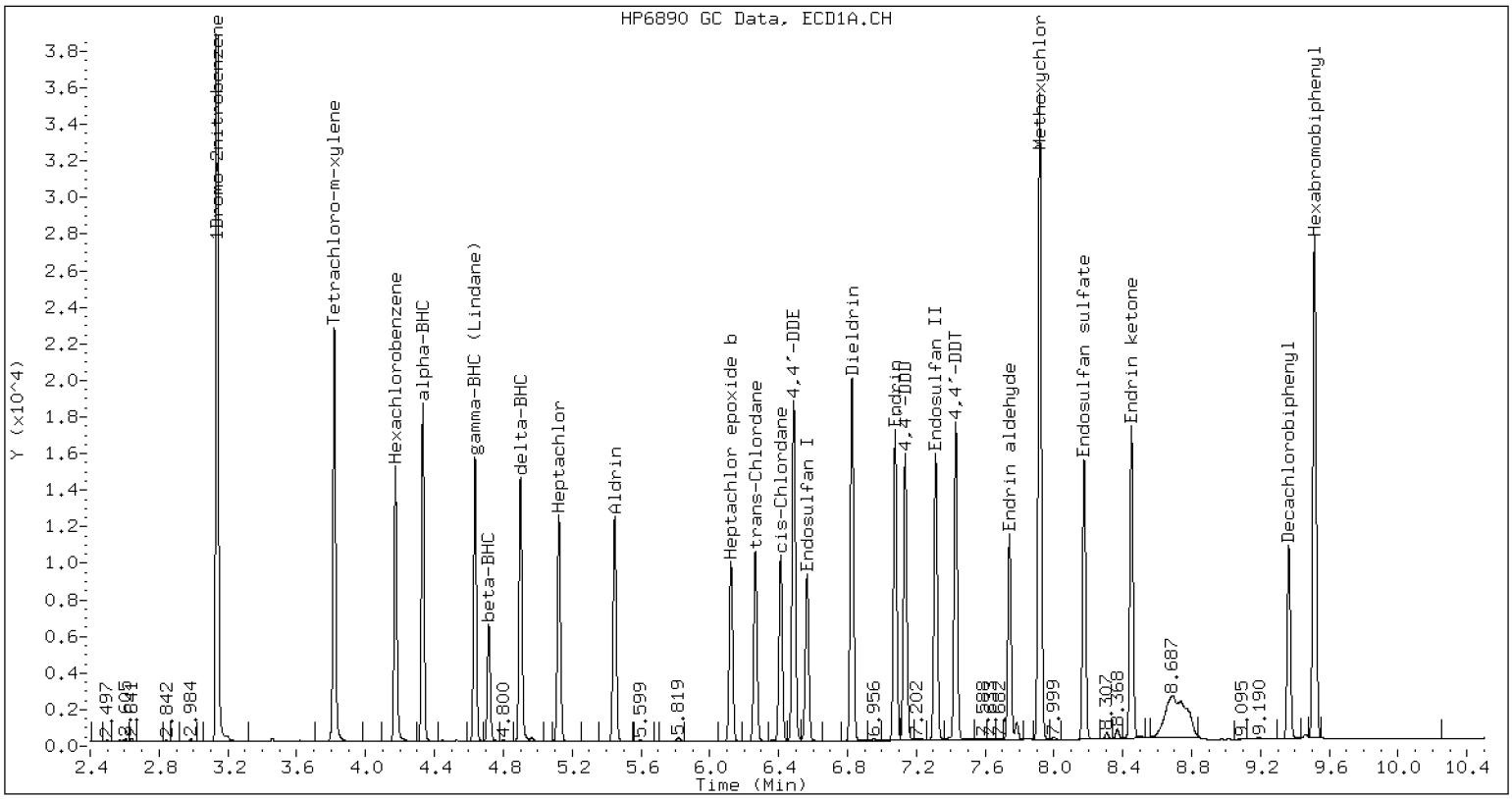
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	973006	12.6
Hexabromobiphenyl	663237	737315	11.2

Column 2

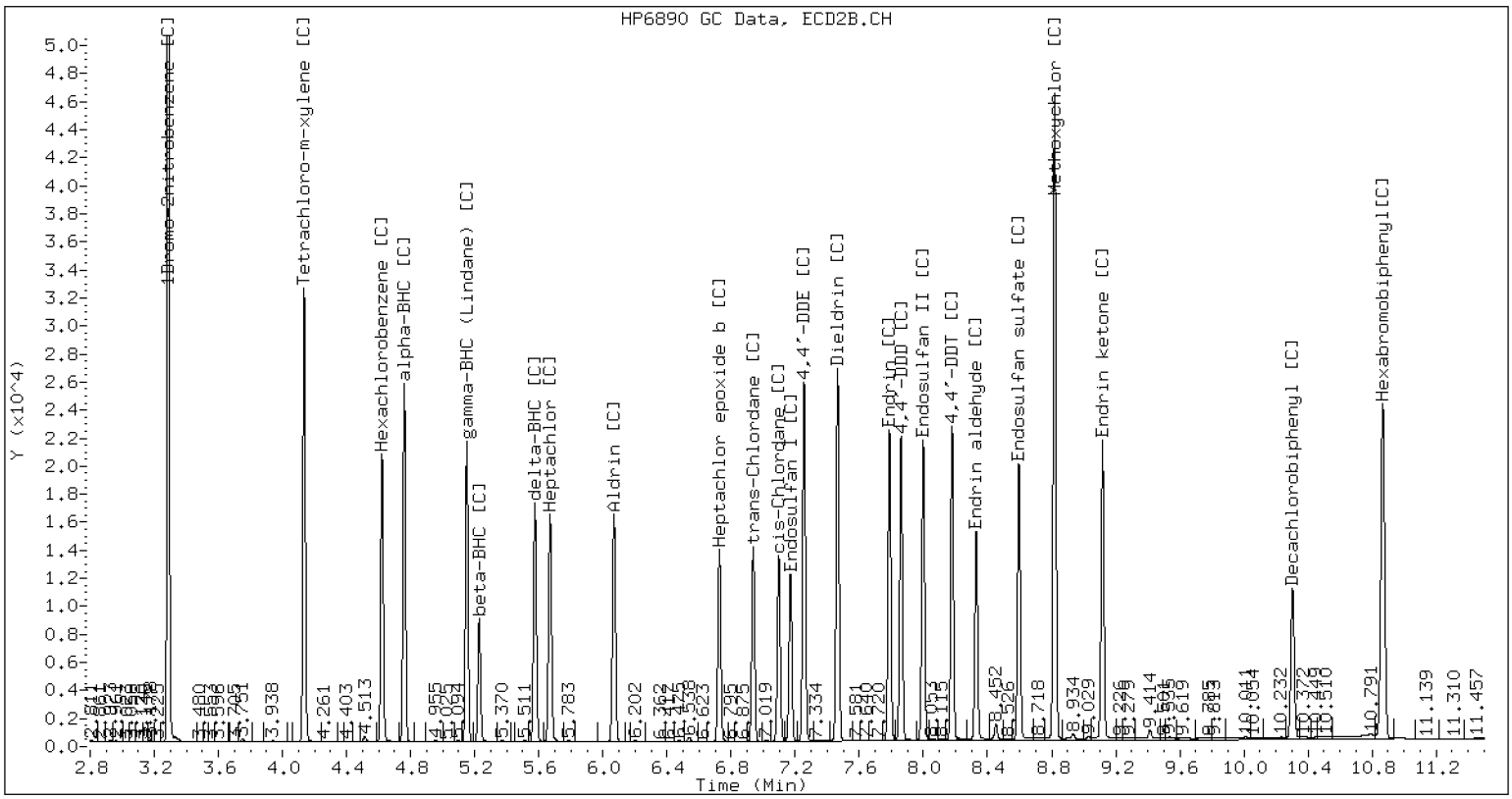
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1399413	-5.5
Hexabromobiphenyl	870561	818182	-6.0

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

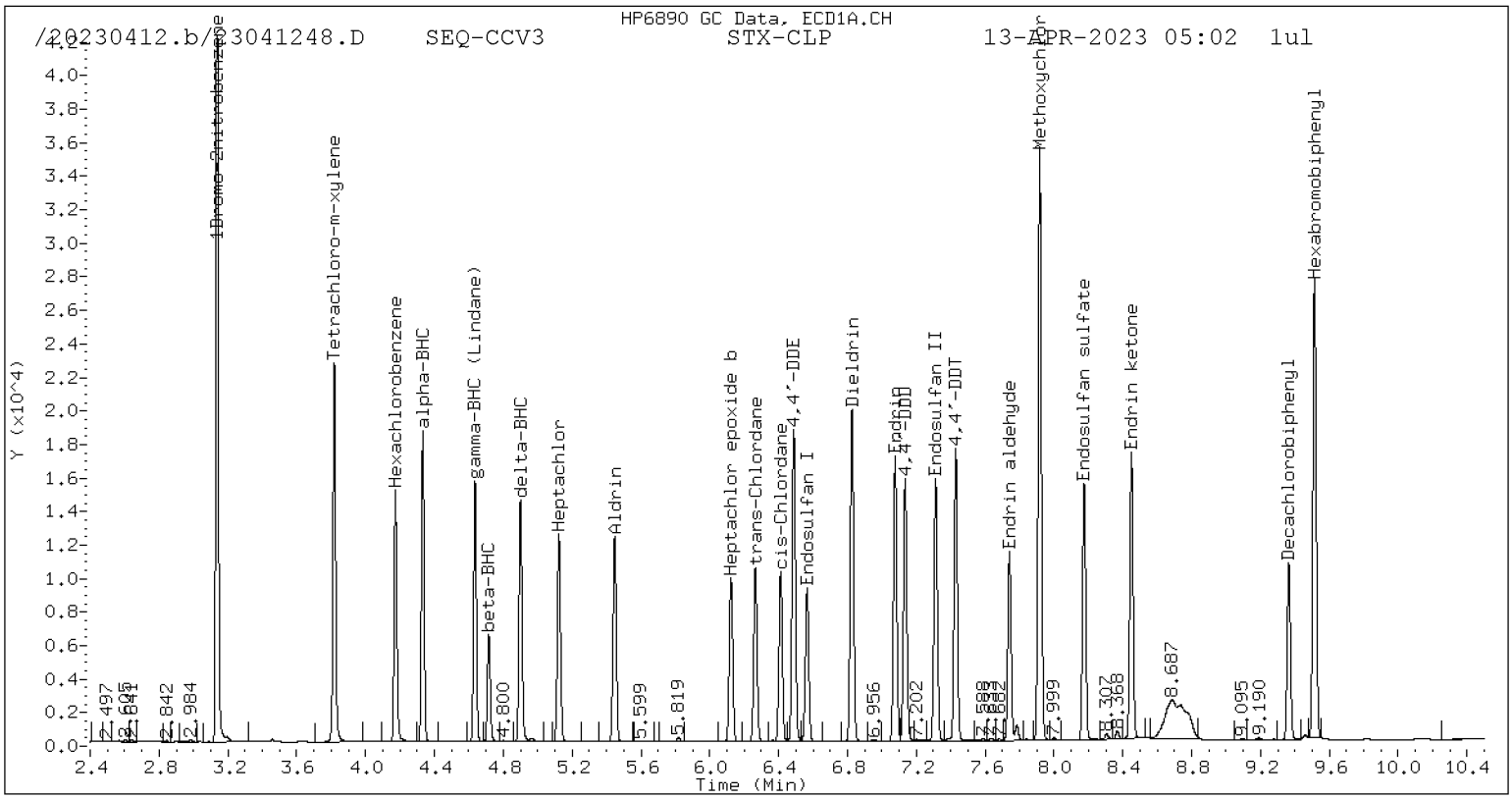
/20230412.b/23041248.D SEQ-CCV3 STX-CLP 13-APR-2023 05:02 1ul



/20230412.b/B20230412.b/23041248.D SEQ-CCV3 CLP2 13-APR-2023 05:02 1ul

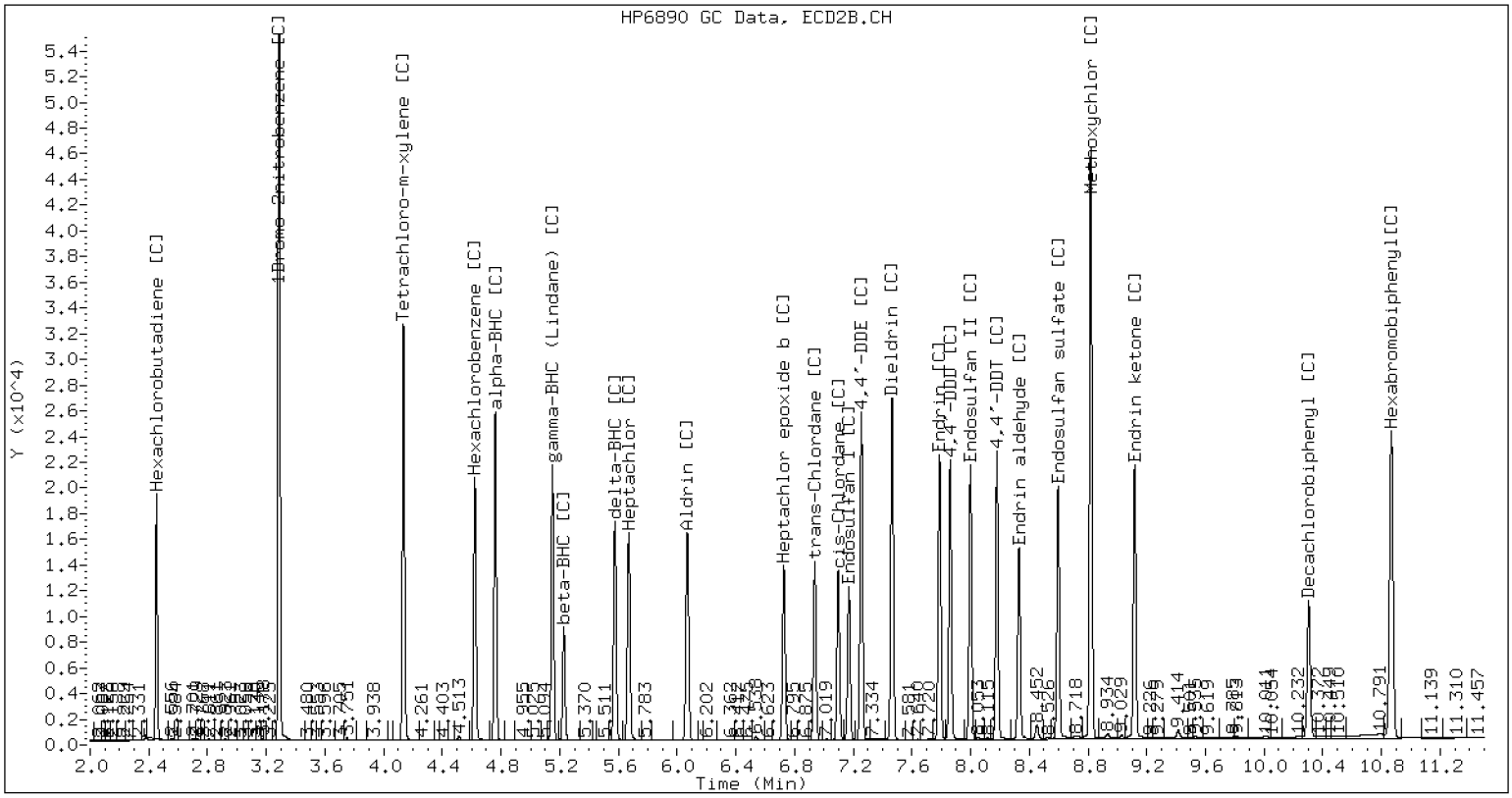


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

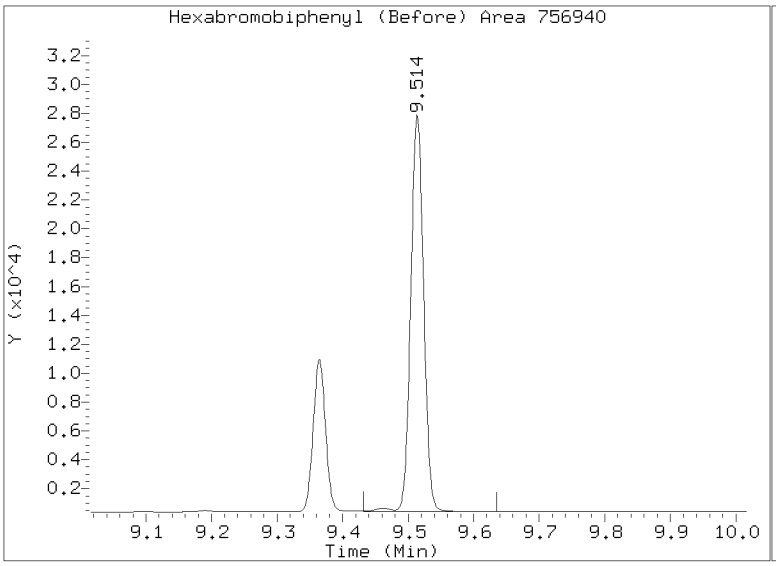
/20230412.b/B20230412.b/23041248.D SEQ-CCV3 CLP2

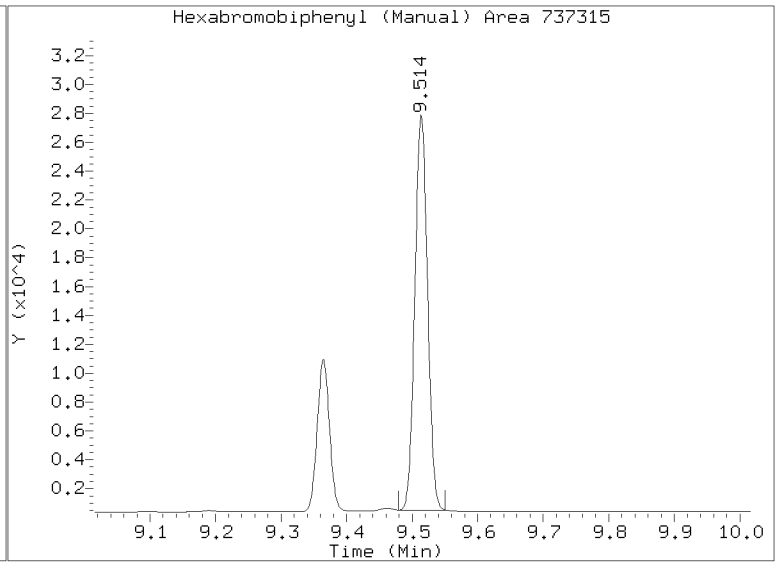


CLP-2 Manual Integration: NO

Manual Peak Adjustment Report, STX-CLP

Datafile: /20230412.b/23041248.D
Injection Date: 13-APR-2023 05:02
Lab ID:SEQ-CCV3 Client ID:
Report Date: 04/14/2023 08:21





Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0187
Instrument: ECD6
Calibration: GD00035

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Cal Standard	SLD0187-CAL1	23041204.D	23041204.D	NA	04/12/23 15:34
Cal Standard	SLD0187-CAL2	23041205.D	23041205.D	NA	04/12/23 15:53
Cal Standard	SLD0187-CAL3	23041206.D	23041206.D	NA	04/12/23 16:11
Cal Standard	SLD0187-CAL5	23041207.D	23041207.D	NA	04/12/23 16:30
Cal Standard	SLD0187-CAL4	23041208.D	23041208.D	NA	04/12/23 16:48
Cal Standard	SLD0187-CAL6	23041209.D	23041209.D	NA	04/12/23 17:06
Cal Standard	SLD0187-CAL7	23041210.D	23041210.D	NA	04/12/23 17:25
Initial Cal Check	SLD0187-ICV1	23041228.D	23041228.D	NA	04/12/23 22:55
Calibration Check	SLD0187-CCV1	23041235.D	23041235.D	NA	04/13/23 01:04
Blank	BLD0009-BLK1	23041237.D	23041237.D	Solid	04/13/23 01:40
LCS	BLD0009-BS1	23041238.D	23041238.D	Solid	04/13/23 01:59
LCS Dup	BLD0009-BSD1	23041239.D	23041239.D	Solid	04/13/23 02:17
LDW23-SS1810	BLD0009-MS1	23041240.D	23041240.D	Solid	04/13/23 02:35
LDW23-SS1810	BLD0009-MSD1	23041241.D	23041241.D	Solid	04/13/23 02:53
LDW23-SS1026	23C0752-01	23041242.D	23041242.D	Solid	04/13/23 03:12
LDW23-SS1125	23C0752-02	23041243.D	23041243.D	Solid	04/13/23 03:30
LDW23-SS1132	23C0752-03	23041244.D	23041244.D	Solid	04/13/23 03:48
LDW23-SS1810	23C0752-04	23041245.D	23041245.D	Solid	04/13/23 04:07
LDW23-SS1809	23C0752-06	23041246.D	23041246.D	Solid	04/13/23 04:25
Calibration Check	SLD0187-CCV3	23041248.D	23041248.D	NA	04/13/23 05:02

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLD0187

Instrument: ECD6
Calibration ID: UNASSIGNED

Printed: 4/14/2023 8:38:57AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLD0187-PEM1	QC		1		L002116	L000844		
SLD0187-CAL1	QC		2		L003348	L000844		
SLD0187-CAL2	QC		3		L003347	L000844		
SLD0187-CAL3	QC		4		L003346	L000844		
SLD0187-CAL4	QC		5		L003345	L000844		
SLD0187-CAL5	QC		6		L003344	L000844		
SLD0187-CAL6	QC		7		L003343	L000844		
SLD0187-CAL7	QC		8		L000560	L000844		
SLD0187-CAL8	QC		9		L003342	L000844		
SLD0187-CAL9	QC		10		L003341	L000844		
SLD0187-CALA	QC		11		L003340	L000844		
SLD0187-CALB	QC		12		L003339	L000844		
SLD0187-CALC	QC		13		L003338	L000844		
SLD0187-CALD	QC		14		L003337	L000844		
SLD0187-CALE	QC		15		L000377	L000844		
SLD0187-CALF	QC		16		L003398	L000844		
SLD0187-CALG	QC		17		L003397	L000844		
SLD0187-CALH	QC		18		L003396	L000844		
SLD0187-CALI	QC		19		L003395	L000844		
SLD0187-CALJ	QC		20		L003394	L000844		
SLD0187-CALK	QC		21		L003393	L000844		

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SLD0187

Instrument: ECD6
Calibration ID: UNASSIGNED

Printed: 4/14/2023 8:38:57AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLD0187-CALL	QC		22		L000559	L000844		
SLD0187-SCV1	QC		23		L003155	L000844		
SLD0187-SCV2	QC		24		L003156	L000844		
SLD0187-PEM2	QC		25		L002116	L000844		
SLD0187-ICV1	QC		26		L003344	L000844		
SLD0187-ICV2	QC		27		L003338	L000844		
BLD0075-BLK1	QC		28			L000844		
BLD0075-BS1	QC		29			L000844		
BLD0075-MRL1	QC		30			L000844		
23D0028-01	8081B Pest	E 01	31			L000844	Associated Earth Sciences, Inc	
SLD0187-PEM3	QC		32		L002116	L000844		
SLD0187-CCV1	QC		33		L003344	L000844		
SLD0187-CCV2	QC		34		L003338	L000844		
BLD0009-BLK1	QC		35			L000844		
BLD0009-BS1	QC		36			L000844		
BLD0009-BSD1	QC		37			L000844		
BLD0009-MS1	QC		38			L000844		
BLD0009-MSD1	QC		39			L000844		
23C0752-01	8081B Pest (PSDDA)	A 03	40			L000844	Anchor QEA, LLC	
23C0752-02	8081B Pest (PSDDA)	A 03	41			L000844	Anchor QEA, LLC	
23C0752-03	8081B Pest (PSDDA)	A 03	42			L000844	Anchor QEA, LLC	

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SLD0187

Instrument: ECD6
Calibration ID: UNASSIGNED

Printed: 4/14/2023 8:38:57AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
23C0752-04	8081B Pest (PSDDA)	A 03	43			L000844	Anchor QEA, LLC	
23C0752-06	8081B Pest (PSDDA)	A 03	44			L000844	Anchor QEA, LLC	
SLD0187-PEM4	QC		45		L002116	L000844		
SLD0187-CCV3	QC		46		L000845	L000844		
SLD0187-CCV4	QC		47		L003338	L000844		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230412.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	12-APR-2023 14:57	23041202.D	1	SEQ-IB	
2	12-APR-2023 15:16	23041203.D	1	SEQ-PEM1	
3	12-APR-2023 15:34	23041204.D	1	SEQ-CAL1	
4	12-APR-2023 15:53	23041205.D	1	SEQ-CAL2	
5	12-APR-2023 16:11	23041206.D	1	SEQ-CAL3	
6	12-APR-2023 16:30	23041207.D	1	SEQ-CAL5	
7	12-APR-2023 16:48	23041208.D	1	SEQ-CAL4	
8	12-APR-2023 17:06	23041209.D	1	SEQ-CAL6	
9	12-APR-2023 17:25	23041210.D	1	SEQ-CAL7	
10	12-APR-2023 17:43	23041211.D	1	SEQ-CAL8	
11	12-APR-2023 18:02	23041212.D	1	SEQ-CAL9	
12	12-APR-2023 18:20	23041213.D	1	SEQ-CALA	
13	12-APR-2023 18:38	23041214.D	1	SEQ-CALB	
14	12-APR-2023 18:57	23041215.D	1	SEQ-CALC	
15	12-APR-2023 19:15	23041216.D	1	SEQ-CALD	
16	12-APR-2023 19:34	23041217.D	1	SEQ-CALE	
17	12-APR-2023 19:52	23041218.D	1	SEQ-CALF	
18	12-APR-2023 20:10	23041219.D	1	SEQ-CALG	
19	12-APR-2023 20:29	23041220.D	1	SEQ-CALH	
20	12-APR-2023 20:47	23041221.D	1	SEQ-CALI	
21	12-APR-2023 21:05	23041222.D	1	SEQ-CALJ	
22	12-APR-2023 21:24	23041223.D	1	SEQ-CALK	
23	12-APR-2023 21:42	23041224.D	1	SEQ-CALL	
24	12-APR-2023 22:00	23041225.D	1	SEQ-SCV1	
25	12-APR-2023 22:19	23041226.D	1	SEQ-SCV2	
26	12-APR-2023 22:37	23041227.D	1	SEQ-PEM2	
27	12-APR-2023 22:55	23041228.D	1	SEQ-ICV1	
28	12-APR-2023 23:14	23041229.D	1	SEQ-ICV2	
29	12-APR-2023 23:32	23041230.D	1	BLD0075-BLK1	
30	12-APR-2023 23:50	23041231.D	1	BLD0075-BS1	
31	13-APR-2023 00:09	23041232.D	1	BLD0075-MRL1	
32	13-APR-2023 00:27	23041233.D	1	23D0028-01	
33	13-APR-2023 00:45	23041234.D	1	SEQ-PEM3	
34	13-APR-2023 01:04	23041235.D	1	SEQ-CCV1	
35	13-APR-2023 01:22	23041236.D	1	SEQ-CCV2	
36	13-APR-2023 01:40	23041237.D	1	BLD0009-BLK1	
37	13-APR-2023 01:59	23041238.D	1	BLD0009-BS1	
38	13-APR-2023 02:17	23041239.D	1	BLD0009-BSD1	
39	13-APR-2023 02:35	23041240.D	1	BLD0009-MS1	
40	13-APR-2023 02:53	23041241.D	1	BLD0009-MSD1	
41	13-APR-2023 03:12	23041242.D	1	23C0752-01	
42	13-APR-2023 03:30	23041243.D	1	23C0752-02	
43	13-APR-2023 03:48	23041244.D	1	23C0752-03	
44	13-APR-2023 04:07	23041245.D	1	23C0752-04	
45	13-APR-2023 04:25	23041246.D	1	23C0752-06	
46	13-APR-2023 04:43	23041247.D	1	SEQ-PEM4	
47	13-APR-2023 05:02	23041248.D	1	SEQ-CCV3	
48	13-APR-2023 05:20	23041249.D	1	SEQ-CCV4	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230412.b

ARI Job No.: SEQ- Method: PEST.m Instrument: ecd6.i Date: 12-APR-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1457	23041202.D	SEQ-IB		1	NO MANUAL INTEGRATION
1516	23041203.D	SEQ-PEM1		1	NO MANUAL INTEGRATION
1534	23041204.D	SEQ-CAL1		1	NO MANUAL INTEGRATION
1553	23041205.D	SEQ-CAL2		1	NO MANUAL INTEGRATION
1611	23041206.D	SEQ-CAL3		1	NO MANUAL INTEGRATION
1630	23041207.D	SEQ-CAL5		1	NO MANUAL INTEGRATION
1648	23041208.D	SEQ-CAL4		1	NO MANUAL INTEGRATION
1706	23041209.D	SEQ-CAL6		1	NO MANUAL INTEGRATION
1725	23041210.D	SEQ-CAL7		1	alpha-BHC, beta-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Aldrin, Heptachlor epoxide b, Erdosulfan I, Dieldrin, 4,4'-DDE, Endrin, Endosulfan II, 4,4'-DDD, Endosulfan sulfate, 4,4'-DDT, Methoxychlor, Endrin ketone, Endrin aldehyde, trans-Chlordane, cis-Chlordane, Hexachlorobe
1743	23041211.D	SEQ-CAL8		1	NO MANUAL INTEGRATION
1802	23041212.D	SEQ-CAL9		1	NO MANUAL INTEGRATION
1820	23041213.D	SEQ-CALA		1	NO MANUAL INTEGRATION
1838	23041214.D	SEQ-CALB		1	NO MANUAL INTEGRATION
1857	23041215.D	SEQ-CALC		1	NO MANUAL INTEGRATION
1915	23041216.D	SEQ-CALD		1	NO MANUAL INTEGRATION
1934	23041217.D	SEQ-CALE		1	Oxychlordane, 2,4-DDE, trans-Nonachlor, 2,4-DDD, 2,4-DDT, cis-Nonachlor, Mirex,
1952	23041218.D	SEQ-CALF		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230412.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2010	23041219.D	SEQ-CALG		1	NO MANUAL INTEGRATION
2029	23041220.D	SEQ-CALH		1	NO MANUAL INTEGRATION
2047	23041221.D	SEQ-CALI		1	NO MANUAL INTEGRATION
2105	23041222.D	SEQ-CALJ		1	NO MANUAL INTEGRATION
2124	23041223.D	SEQ-CALK		1	NO MANUAL INTEGRATION
2142	23041224.D	SEQ-CALL		1	NO MANUAL INTEGRATION
2200	23041225.D	SEQ-SCV1		1	NO MANUAL INTEGRATION
2219	23041226.D	SEQ-SCV2		1	NO MANUAL INTEGRATION
2237	23041227.D	SEQ-PEM2		1	NO MANUAL INTEGRATION
2255	23041228.D	SEQ-ICV1		1	NO MANUAL INTEGRATION
2314	23041229.D	SEQ-ICV2		1	NO MANUAL INTEGRATION
2332	23041230.D	BLD0075-BLK1		1	NO MANUAL INTEGRATION
2350	23041231.D	BLD0075-BS1		1	NO MANUAL INTEGRATION
0009	23041232.D	BLD0075-MRL1		1	NO MANUAL INTEGRATION
0027	23041233.D	23D0028-01		1	NO MANUAL INTEGRATION
0045	23041234.D	SEQ-PEM3		1	Endrin, 4,4'-DDD,
0104	23041235.D	SEQ-CCV1		1	NO MANUAL INTEGRATION
0122	23041236.D	SEQ-CCV2		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230412.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0140	23041237.D	BLD0009-BLK1		1	NO MANUAL INTEGRATION
0159	23041238.D	BLD0009-BS1		1	NO MANUAL INTEGRATION
0217	23041239.D	BLD0009-BSD1		1	NO MANUAL INTEGRATION
0235	23041240.D	BLD0009-MS1		1	Endrin, 4,4'-DDD, 4,4'-DDT,
0253	23041241.D	BLD0009-MSD1		1	Aldrin,
0312	23041242.D	23C0752-01		1	delta-BHC, gamma-BHC (Lindane), Endrin, 4,4'-DDD, 4,4'-DDT, Endrin aldehyde, Toxaphene, cis-Nonachlor,
0330	23041243.D	23C0752-02		1	Endrin, 4,4'-DDD, 4,4'-DDT, trans-Chlordane, cis-Chlordane, Toxaphene, trans-Nonachlor, cis-Nonachlor, Chlordane (NOS),
0348	23041244.D	23C0752-03		1	Dieldrin, 4,4'-DDD, cis-Chlordane, Hexachlorobenzene, trans-Nonachlor, cis-Nonachlor, Chlordane (NOS),
0407	23041245.D	23C0752-04		1	delta-BHC, Endrin, 4,4'-DDD, 4,4'-DDT, trans-Chlordane, cis-Chlordane, Toxaphene, trans-Nonachlor, cis-Nonachlor, Chlordane (NOS),
0425	23041246.D	23C0752-06		1	Endrin, 4,4'-DDT, cis-Chlordane, Toxaphene, cis-Nonachlor, Mirex, Chlordane (NOS),
0443	23041247.D	SEQ-PEM4		1	Endrin, 4,4'-DDD,
0502	23041248.D	SEQ-CCV3		1	Hexabromobiphenyl,
0520	23041249.D	SEQ-CCV4		1	NO MANUAL INTEGRATION

Security Status Report

Date: 14-Apr-2023 08:24

23041202.D	Data Locked	yev, 14-
23041203.D	Data Locked	yev, 14-
23041204.D	Data Locked	yev, 14-
23041205.D	Data Locked	yev, 14-
23041206.D	Data Locked	yev, 14-
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23041210.D	Data Locked	yev, 14-
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23041212.D	Data Locked	yev, 14-
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23041216.D	Data Locked	yev, 14-
23041217.D	Data Locked	yev, 14-
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23041220.D	Data Locked	yev, 14-
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23041234.D	Data Locked	yev, 14-
23041235.D	Data Locked	yev, 14-
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23041245.D	Data Locked	yev, 14-
23041246.D	Data Locked	yev, 14-
23041247.D	Data Locked	yev, 14-
23041248.D	Data Locked	yev, 14-
23041249.D	Data Locked	yev, 14-

SURROGATE RECOVERY AND RT SUMMARY
EPA 8081B

Laboratory: Analytical Resources, LLC
SDG/WO: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0187
Instrument: ECD6
Calibration: GD00035
Calibration Date: 04/12/2023

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLD0187-ICV1 (Solid)				Lab File ID: 23041228.D			Analyzed: 04/12/23 22:55	
Decachlorobiphenyl	40.000	79.8	80 - 120	9.366	9.365571	0.0004	+/-0.1	*
Decachlorobiphenyl [2C]	40.000	83.8	80 - 120	10.306	10.30529	0.0007	+/-0.1	
Tetrachlorometaxylene	40.000	88.6	80 - 120	3.82	3.819	0.0010	+/-0.1	
Tetrachlorometaxylene [2C]	40.000	89.4	80 - 120	4.135	4.135572	-0.0006	+/-0.1	
SLD0187-CCV1 (Solid)				Lab File ID: 23041235.D			Analyzed: 04/13/23 01:04	
Decachlorobiphenyl	40.000	78.8	80 - 120	9.365	9.365571	-0.0006	+/-0.1	*
Decachlorobiphenyl [2C]	40.000	84.2	80 - 120	10.304	10.30529	-0.0013	+/-0.1	
Tetrachlorometaxylene	40.000	88.7	80 - 120	3.819	3.819	0.0000	+/-0.1	
Tetrachlorometaxylene [2C]	40.000	89.1	80 - 120	4.135	4.135572	-0.0006	+/-0.1	
BLD0009-BLK1 (Solid)				Lab File ID: 23041237.D			Analyzed: 04/13/23 01:40	
Decachlorobiphenyl	8.0000	66.3	30 - 160	9.365	9.365571	-0.0006	+/-0.1	
Decachlorobiphenyl [2C]	8.0000	69.2	30 - 160	10.305	10.30529	-0.0003	+/-0.1	
Tetrachlorometaxylene	8.0000	55.0	30 - 160	3.818	3.819	-0.0010	+/-0.1	
Tetrachlorometaxylene [2C]	8.0000	57.0	30 - 160	4.135	4.135572	-0.0006	+/-0.1	
BLD0009-BS1 (Solid)				Lab File ID: 23041238.D			Analyzed: 04/13/23 01:59	
Decachlorobiphenyl	8.0000	75.4	30 - 160	9.365	9.365571	-0.0006	+/-0.1	
Decachlorobiphenyl [2C]	8.0000	78.8	30 - 160	10.304	10.30529	-0.0013	+/-0.1	
Tetrachlorometaxylene	8.0000	63.9	30 - 160	3.818	3.819	-0.0010	+/-0.1	
Tetrachlorometaxylene [2C]	8.0000	66.6	30 - 160	4.134	4.135572	-0.0016	+/-0.1	
BLD0009-BSD1 (Solid)				Lab File ID: 23041239.D			Analyzed: 04/13/23 02:17	
Decachlorobiphenyl	8.0000	75.3	30 - 160	9.364	9.365571	-0.0016	+/-0.1	
Decachlorobiphenyl [2C]	8.0000	77.1	30 - 160	10.304	10.30529	-0.0013	+/-0.1	
Tetrachlorometaxylene	8.0000	58.5	30 - 160	3.818	3.819	-0.0010	+/-0.1	
Tetrachlorometaxylene [2C]	8.0000	65.1	30 - 160	4.134	4.135572	-0.0016	+/-0.1	
BLD0009-MS1 (Solid)				Lab File ID: 23041240.D			Analyzed: 04/13/23 02:35	
Decachlorobiphenyl	7.9982	77.5	30 - 160	9.366	9.365571	0.0004	+/-0.1	
Decachlorobiphenyl [2C]	7.9982	80.5	30 - 160	10.306	10.30529	0.0007	+/-0.1	
Tetrachlorometaxylene	7.9982	68.9	30 - 160	3.817	3.819	-0.0020	+/-0.1	
Tetrachlorometaxylene [2C]	7.9982	65.8	30 - 160	4.134	4.135572	-0.0016	+/-0.1	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8081B

Laboratory: Analytical Resources, LLC
SDG/WO: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0187
Instrument: ECD6
Calibration: GD00035
Calibration Date: 04/12/2023

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BLD0009-MSD1 (Solid)				Lab File ID: 23041241.D			Analyzed: 04/13/23 02:53	
Decachlorobiphenyl	7.9982	74.7	30 - 160	9.366	9.365571	0.0004	+/-0.1	
Decachlorobiphenyl [2C]	7.9982	84.2	30 - 160	10.306	10.30529	0.0007	+/-0.1	
Tetrachlorometaxylene	7.9982	69.5	30 - 160	3.818	3.819	-0.0010	+/-0.1	
Tetrachlorometaxylene [2C]	7.9982	65.7	30 - 160	4.134	4.135572	-0.0016	+/-0.1	
23C0752-01 (Solid)				Lab File ID: 23041242.D			Analyzed: 04/13/23 03:12	
Decachlorobiphenyl	7.9970	73.5	30 - 160	9.367	9.365571	0.0014	+/-0.1	
Decachlorobiphenyl [2C]	7.9970	83.6	30 - 160	10.306	10.30529	0.0007	+/-0.1	
Tetrachlorometaxylene	7.9970	61.3	30 - 160	3.818	3.819	-0.0010	+/-0.1	
Tetrachlorometaxylene [2C]	7.9970	60.6	30 - 160	4.134	4.135572	-0.0016	+/-0.1	
23C0752-02 (Solid)				Lab File ID: 23041243.D			Analyzed: 04/13/23 03:30	
Decachlorobiphenyl	8.0004	75.7	30 - 160	9.366	9.365571	0.0004	+/-0.1	
Decachlorobiphenyl [2C]	8.0004	85.1	30 - 160	10.305	10.30529	-0.0003	+/-0.1	
Tetrachlorometaxylene	8.0004	65.5	30 - 160	3.817	3.819	-0.0020	+/-0.1	
Tetrachlorometaxylene [2C]	8.0004	65.6	30 - 160	4.134	4.135572	-0.0016	+/-0.1	
23C0752-03 (Solid)				Lab File ID: 23041244.D			Analyzed: 04/13/23 03:48	
Decachlorobiphenyl	7.9917	78.1	30 - 160	9.366	9.365571	0.0004	+/-0.1	
Decachlorobiphenyl [2C]	7.9917	86.7	30 - 160	10.306	10.30529	0.0007	+/-0.1	
Tetrachlorometaxylene	7.9917	70.5	30 - 160	3.818	3.819	-0.0010	+/-0.1	
Tetrachlorometaxylene [2C]	7.9917	66.6	30 - 160	4.135	4.135572	-0.0006	+/-0.1	
23C0752-04 (Solid)				Lab File ID: 23041245.D			Analyzed: 04/13/23 04:07	
Decachlorobiphenyl	7.9948	71.1	30 - 160	9.366	9.365571	0.0004	+/-0.1	
Decachlorobiphenyl [2C]	7.9948	80.5	30 - 160	10.305	10.30529	-0.0003	+/-0.1	
Tetrachlorometaxylene	7.9948	69.0	30 - 160	3.817	3.819	-0.0020	+/-0.1	
Tetrachlorometaxylene [2C]	7.9948	64.5	30 - 160	4.134	4.135572	-0.0016	+/-0.1	
23C0752-06 (Solid)				Lab File ID: 23041246.D			Analyzed: 04/13/23 04:25	
Decachlorobiphenyl	7.9896	82.2	30 - 160	9.366	9.365571	0.0004	+/-0.1	
Decachlorobiphenyl [2C]	7.9896	90.8	30 - 160	10.306	10.30529	0.0007	+/-0.1	
Tetrachlorometaxylene	7.9896	77.6	30 - 160	3.818	3.819	-0.0010	+/-0.1	
Tetrachlorometaxylene [2C]	7.9896	71.5	30 - 160	4.135	4.135572	-0.0006	+/-0.1	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG/WO:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0187	Instrument:	ECD6
Calibration:	GD00035	Calibration Date:	04/12/2023

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLD0187-CCV3 (Solid)				Lab File ID: 23041248.D			Analyzed: 04/13/23 05:02	
Decachlorobiphenyl	40.000	80.1	80 - 120	9.364	9.365571	-0.0016	+/-0.1	
Decachlorobiphenyl [2C]	40.000	83.1	80 - 120	10.303	10.30529	-0.0023	+/-0.1	
Tetrachlorometaxylene	40.000	87.6	80 - 120	3.818	3.819	-0.0010	+/-0.1	
Tetrachlorometaxylene [2C]	40.000	88.5	80 - 120	4.135	4.135572	-0.0006	+/-0.1	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8081B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0187
Instrument: ECD6
Calibration: GD00035

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SLD0187-ICV1)		(Solid)		Lab File ID: 23041228.D			Analyzed: 04/12/23 22:55		
1-Bromo-2-Nitrobenzene	527944	3.138	527944	3.138	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	428829	9.515	428829	9.515	100	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	744512	3.287	744512	3.287	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	468235	10.869	468235	10.869	100	50 - 200	0.000	+/-0.50	
Blank (BLD0009-BLK1)		(Solid)		Lab File ID: 23041237.D			Analyzed: 04/13/23 01:40		
1-Bromo-2-Nitrobenzene	1030604	3.136	527944	3.138	195	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	868057	9.515	428829	9.515	202	50 - 200	0.000	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	1486701	3.286	744512	3.287	200	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	928862	10.868	468235	10.869	198	50 - 200	-0.001	+/-0.50	
LCS (BLD0009-BS1)		(Solid)		Lab File ID: 23041238.D			Analyzed: 04/13/23 01:59		
1-Bromo-2-Nitrobenzene	1015173	3.136	527944	3.138	192	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	850547	9.514	428829	9.515	198	50 - 200	-0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1496601	3.286	744512	3.287	201	50 - 200	-0.001	+/-0.50	*
Hexabromobiphenyl [2C]	919032	10.868	468235	10.869	196	50 - 200	-0.001	+/-0.50	
LCS Dup (BLD0009-BSD1)		(Solid)		Lab File ID: 23041239.D			Analyzed: 04/13/23 02:17		
1-Bromo-2-Nitrobenzene	1057574	3.136	527944	3.138	200	50 - 200	-0.002	+/-0.50	*
Hexabromobiphenyl	865479	9.514	428829	9.515	202	50 - 200	-0.001	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	1516038	3.286	744512	3.287	204	50 - 200	-0.001	+/-0.50	*
Hexabromobiphenyl [2C]	918740	10.868	468235	10.869	196	50 - 200	-0.001	+/-0.50	
Matrix Spike (BLD0009-MS1)		(Solid)		Lab File ID: 23041240.D			Analyzed: 04/13/23 02:35		
1-Bromo-2-Nitrobenzene	1037535	3.136	527944	3.138	197	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	718336	9.516	428829	9.515	168	50 - 200	0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1425441	3.286	744512	3.287	191	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	763973	10.87	468235	10.869	163	50 - 200	0.001	+/-0.50	
Matrix Spike Dup (BLD0009-MSD1)		(Solid)		Lab File ID: 23041241.D			Analyzed: 04/13/23 02:53		
1-Bromo-2-Nitrobenzene	1036357	3.136	527944	3.138	196	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	720144	9.517	428829	9.515	168	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1436936	3.286	744512	3.287	193	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	762214	10.871	468235	10.869	163	50 - 200	0.002	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8081B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0187
Instrument: ECD6
Calibration: GD00035

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW23-SS1026 (23C0752-01)		(Solid)		Lab File ID: 23041242.D				Analyzed: 04/13/23 03:12	
1-Bromo-2-Nitrobenzene	1037697	3.136	527944	3.138	197	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	728047	9.517	428829	9.515	170	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1421546	3.286	744512	3.287	191	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	766795	10.87	468235	10.869	164	50 - 200	0.001	+/-0.50	
LDW23-SS1125 (23C0752-02)		(Solid)		Lab File ID: 23041243.D				Analyzed: 04/13/23 03:30	
1-Bromo-2-Nitrobenzene	1038837	3.136	527944	3.138	197	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	682664	9.517	428829	9.515	159	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1352290	3.286	744512	3.287	182	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	718505	10.869	468235	10.869	153	50 - 200	0.000	+/-0.50	
LDW23-SS1132 (23C0752-03)		(Solid)		Lab File ID: 23041244.D				Analyzed: 04/13/23 03:48	
1-Bromo-2-Nitrobenzene	999175	3.137	527944	3.138	189	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	691609	9.517	428829	9.515	161	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1358770	3.286	744512	3.287	183	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	732200	10.87	468235	10.869	156	50 - 200	0.001	+/-0.50	
LDW23-SS1810 (23C0752-04)		(Solid)		Lab File ID: 23041245.D				Analyzed: 04/13/23 04:07	
1-Bromo-2-Nitrobenzene	974545	3.136	527944	3.138	185	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	678871	9.516	428829	9.515	158	50 - 200	0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1353303	3.285	744512	3.287	182	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	721256	10.87	468235	10.869	154	50 - 200	0.001	+/-0.50	
LDW23-SS1809 (23C0752-06)		(Solid)		Lab File ID: 23041246.D				Analyzed: 04/13/23 04:25	
1-Bromo-2-Nitrobenzene	946038	3.136	527944	3.138	179	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	669666	9.517	428829	9.515	156	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1323268	3.286	744512	3.287	178	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	702752	10.87	468235	10.869	150	50 - 200	0.001	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	23C0752
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23C0752-01	File ID:	23041242.D
Sampled:	03/30/23 10:37	Prepared:	04/03/23 11:42	Analyzed:	04/13/23 03:12
Solids:	50.24	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD6
Batch:	BLD0009	Sequence:	SLD0187		
GC Column(1):	STX-CLP			GC Column(2):	STX-CLPII

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Hexachlorobenzene	* 1	4.173	4.174429	0.00143	450946	4.49	.9
	2	4.621	4.621714	0.000714	586526	4.45	

* Column used for quantitation

HOLDING TIME SUMMARY

Analysis: EPA 8081B

Laboratory: Analytical Resources, LLC SDG: 23C0752

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

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1026 23C0752-01	03/30/23 10:37	03/30/23 16:25	04/03/23 11:42	4	14	04/13/23 03:12	10	40	
LDW23-SS1125 23C0752-02	03/30/23 11:10	03/30/23 16:25	04/03/23 11:42	4	14	04/13/23 03:30	10	40	
LDW23-SS1132 23C0752-03	03/30/23 11:30	03/30/23 16:25	04/03/23 11:42	4	14	04/13/23 03:48	10	40	
LDW23-SS1810 23C0752-04	03/30/23 10:36	03/30/23 16:25	04/03/23 11:42	4	14	04/13/23 04:07	10	40	
LDW23-SS1809 23C0752-06	03/30/23 14:30	03/30/23 16:25	04/03/23 11:42	3	14	04/13/23 04:25	10	40	
Matrix Spike BLD0009-MS1	03/30/23 10:36	03/30/23 16:25	04/03/23 11:42	4	14	04/13/23 02:35	10	40	
Matrix Spike Dup BLD0009-MSD1	03/30/23 10:36	03/30/23 16:25	04/03/23 11:42	4	14	04/13/23 02:53	10	40	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 8081B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: ECD6

Analyte	MDL	RL	Units
Hexachlorobenzene	0.15	0.50	ug/kg
Hexachlorobenzene [2C]	0.15	0.50	ug/kg

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: S-279N
Description: Tetrachloro-m-xylene
Lot: 0052481B-1
Solvent: N/A
Hazards: *Refer to SDS for complete safety information*

Signal Word: Warning

Date Certified: Jul 28, 2005
Expiration: Jul 28, 2015
Sample Size: 100 mg
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

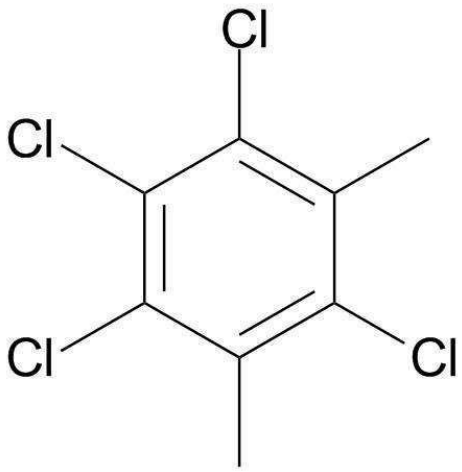
ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/FID)	Prepared Concentration	Certified Analyte Concentration[1]
Tetrachloro-meta-xylene	877-09-8	96.0	N/A	N/A

Identification:

Molecular formula: C8H6Cl4
Molecular weight: 243.94



C000147
tetrachlormetaxylene
Expires 1/15/2020
Prepared By Joshua Rains 1/15/2014

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] The Uncertainty calculated for this product is ±2.4%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Metrological traceability is established through in-house validated methods.

Purity, if stated, is equal to 100% minus found impurity components. Impurity components have not been identified.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 5/18

AccuStandard
125 Market Street
New Haven, CT 06513
(203) 786-5290

CERTIFICATE OF PRODUCT DATA

PRODUCT: C-209N
DESCRIPTION: 2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl
LOT #: 990521LB-AC
SOLVENT: N/A

EXPIRATION: Jul 28, 2015

This product is guaranteed accurate to ±0.5% of the Certified Analyte concentration through the Expiration Date on the Label.

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1]	Certified Analyte Concentration[2]
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	2051-24-3	100	N/A	N/A

2,

C000148
decachlorbiphenyl
Expires 1/15/2020
Prepared By Joshua Rains 1/15/2014

* I1768A

Certified by: R. Cooper

1. All weights are traceable through National Institute of Standards & Technology, Test No. 822/254480
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is ±4% which is the Combined Uncertainty uc(y). It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is Uc(y) *K where K is the coverage factor at the 95% confidence level (K=2).
3. A product with a suffix (-1A, -2B, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

Please note: AccuStandard follows the U.S. conventions in reporting numerical values, on both certificates and labels.

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

This product was manufactured in accordance to quality system requirements of ISO 9001:2000 and ISO 17025

* Recertified 2 4-6-09 JS

Analytical Standard Record

Standard ID: C000148 **Printed: 4/23/2015 11:54:44AM**

Description:	decachlorbiphenyl	Expires:	15-Jan-2020
Standard Type:	Other	Prepared:	15-Jan-2014
Solvent:	na/a	Prepared By:	Joshua Rains
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	27-Feb-2015 13:03 by JGR
Vendor:	Accustandard	Lot #:	990521lb-ac
Vendor Catalog #:			

Comments

see i1768a
SOM calibrations added 06/12/14 sdrd

Analyte	CAS Number	Concentration	Units
Decachlorobiphenyl [2C]	2051-24-3	1000000	ug/mL
Decachlorobiphenyl	2051-24-3	1000000	ug/mL
DCB 1660 [2C]	2051-24-3	1000000	ug/mL
DCB 1660	2051-24-3	1000000	ug/mL
DCB [2C]	2051-24-3	1000000	ug/mL
DCB (A) [2C]	2051-24-3	1000000	ug/mL
DCB (A)	2051-24-3	1000000	ug/mL
DCB	2051-24-3	1000000	ug/mL

Reviewed By Date

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: APP-9-112-D-20X
Description: Hexachlorobenzene in Dichloromethane
Lot: 219051389
Solvent: Dichloromethane
Hazards: *Refer to SDS for complete safety information*

Signal Word: Warning

Date Certified: May 13, 2019
Expiration: May 13, 2029
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463
ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY AT-1339
ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Hexachlorobenzene	118-74-1	99.0	2002	1982

J006504
Hexachlorobenzene
Solvent / Lot: Dichloromethane
Prep: 6/21/2021 by YZ
Exp: 5/13/2029
Location:

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 5/18

1. **Quality Standards:**

   ISO 17034 – General Requirements for the Competence of Reference Material Producers ANAB Certificate Number AR-1463

   ISO/IEC 17025 – General Requirements for the Competence of Testing And Calibration Laboratories ANAB Certificate Number AT-1339

   ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations Certificate Number 3774

2 **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7

3 **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards and calibrated using an in-house procedure. Good Laboratory Practices have been used throughout the preparation of this .

4 **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5 **Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6 **Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(\mathrm{V}))^2 + (u(\mathrm{m}))^2 + (u(\mathrm{IV}))^2 + (u(\mathrm{RO}))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

7 **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32292 **Lot No.:** A0185477

Description : Organochlorine Pesticide Mix AB # 2

Organochlorine Pesticide Mix AB # 2 8-80 µg/mL, Hexane/Toluene(1:1), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	alpha-BHC	8.1 µg/mL	+/- 0.0660 µg/mL	Gravimetric
	CAS # 319-84-6 (Lot 12307600)		+/- 0.3703 µg/mL	Unstressed
	Purity 99%		+/- 0.5325 µg/mL	Stressed
2	gamma-BHC (Lindane)	8.0 µg/mL	+/- 0.0654 µg/mL	Gravimetric
	CAS # 58-89-9 (Lot 13087200)		+/- 0.3672 µg/mL	Unstressed
	Purity 99%		+/- 0.5281 µg/mL	Stressed
3	beta-BHC	8.1 µg/mL	+/- 0.0660 µg/mL	Gravimetric
	CAS # 319-85-7 (Lot 0588007-4)		+/- 0.3703 µg/mL	Unstressed
	Purity 99%		+/- 0.5325 µg/mL	Stressed
4	delta-BHC	8.1 µg/mL	+/- 0.0660 µg/mL	Gravimetric
	CAS # 319-86-8 (Lot 13112400)		+/- 0.3703 µg/mL	Unstressed
	Purity 99%		+/- 0.5325 µg/mL	Stressed
5	Heptachlor	8.0 µg/mL	+/- 0.0654 µg/mL	Gravimetric
	CAS # 76-44-8 (Lot 803759)		+/- 0.3672 µg/mL	Unstressed
	Purity 99%		+/- 0.5281 µg/mL	Stressed
6	Aldrin	8.1 µg/mL	+/- 0.0660 µg/mL	Gravimetric
	CAS # 309-00-2 (Lot 12983100)		+/- 0.3702 µg/mL	Unstressed
	Purity 96%		+/- 0.5323 µg/mL	Stressed
7	Heptachlor epoxide (isomer B)	8.1 µg/mL	+/- 0.0660 µg/mL	Gravimetric
	CAS # 1024-57-3 (Lot 13168200)		+/- 0.3703 µg/mL	Unstressed
	Purity 99%		+/- 0.5325 µg/mL	Stressed

8	trans-Chlordane		8.0	µg/mL	+/-	0.0657	µg/mL	Gravimetric
	CAS # 5103-74-2	(Lot 32943)			+/-	0.3689	µg/mL	Unstressed
	Purity 98%				+/-	0.5305	µg/mL	Stressed
9	cis-Chlordane		8.0	µg/mL	+/-	0.0657	µg/mL	Gravimetric
	CAS # 5103-71-9	(Lot 31766)			+/-	0.3689	µg/mL	Unstressed
	Purity 98%				+/-	0.5305	µg/mL	Stressed
10	Endosulfan I		8.0	µg/mL	+/-	0.0654	µg/mL	Gravimetric
	CAS # 959-98-8	(Lot BCCF4060)			+/-	0.3672	µg/mL	Unstressed
	Purity 99%				+/-	0.5281	µg/mL	Stressed
11	4,4'-DDE		16.1	µg/mL	+/-	0.1314	µg/mL	Gravimetric
	CAS # 72-55-9	(Lot GHYQG)			+/-	0.7375	µg/mL	Unstressed
	Purity 99%				+/-	1.0606	µg/mL	Stressed
12	Dieldrin		16.1	µg/mL	+/-	0.1320	µg/mL	Gravimetric
	CAS # 60-57-1	(Lot 11129900)			+/-	0.7408	µg/mL	Unstressed
	Purity 98%				+/-	1.0653	µg/mL	Stressed
13	Endrin		16.1	µg/mL	+/-	0.1320	µg/mL	Gravimetric
	CAS # 72-20-8	(Lot 13157400)			+/-	0.7406	µg/mL	Unstressed
	Purity 99%				+/-	1.0650	µg/mL	Stressed
14	4,4'-DDD		16.1	µg/mL	+/-	0.1320	µg/mL	Gravimetric
	CAS # 72-54-8	(Lot HAN02)			+/-	0.7406	µg/mL	Unstressed
	Purity 99%				+/-	1.0650	µg/mL	Stressed
15	Endosulfan II		16.0	µg/mL	+/-	0.1309	µg/mL	Gravimetric
	CAS # 33213-65-9	(Lot 12448900)			+/-	0.7345	µg/mL	Unstressed
	Purity 99%				+/-	1.0562	µg/mL	Stressed
16	4,4'-DDT		16.1	µg/mL	+/-	0.1315	µg/mL	Gravimetric
	CAS # 50-29-3	(Lot 220428JLM)			+/-	0.7378	µg/mL	Unstressed
	Purity 98%				+/-	1.0610	µg/mL	Stressed
17	Endrin aldehyde		16.1	µg/mL	+/-	0.1314	µg/mL	Gravimetric
	CAS # 7421-93-4	(Lot 30720)			+/-	0.7375	µg/mL	Unstressed
	Purity 99%				+/-	1.0606	µg/mL	Stressed
18	Endosulfan sulfate		16.1	µg/mL	+/-	0.1320	µg/mL	Gravimetric
	CAS # 1031-07-8	(Lot BCCB0424)			+/-	0.7406	µg/mL	Unstressed
	Purity 99%				+/-	1.0650	µg/mL	Stressed
19	Methoxychlor		80.2	µg/mL	+/-	0.5781	µg/mL	Gravimetric
	CAS # 72-43-5	(Lot 13027000)			+/-	3.6697	µg/mL	Unstressed
	Purity 98%				+/-	5.2871	µg/mL	Stressed
20	Endrin ketone		16.1	µg/mL	+/-	0.1314	µg/mL	Gravimetric
	CAS # 53494-70-5	(Lot 13026800)			+/-	0.7375	µg/mL	Unstressed
	Purity 99%				+/-	1.0606	µg/mL	Stressed

Solvent: Hexane/Toluene (50:50)
CAS # 110-54-3/108-88-3
Purity 99%

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

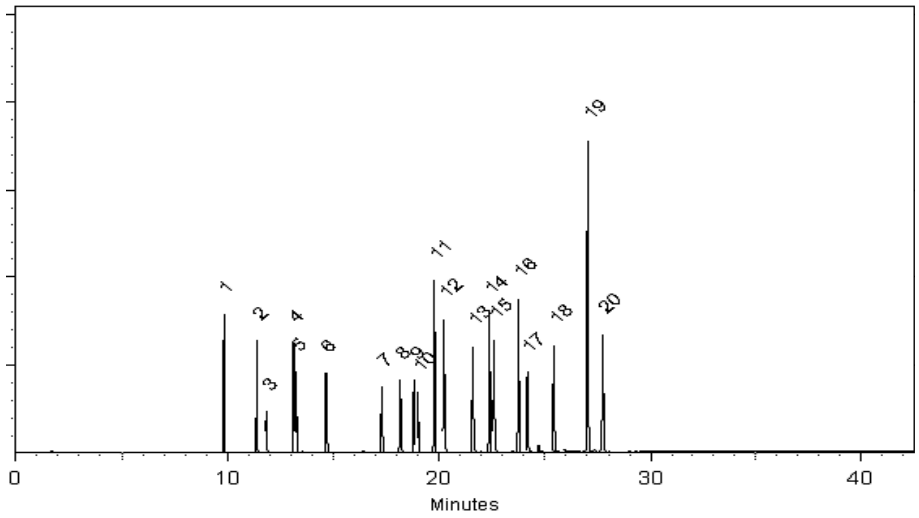
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 19-May-2022 **Balance:** B442140311

Fang-Yun Lo - QC Analyst

Date Passed: 26-May-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: M-502-36-10X
Description: Hexachlorobutadiene
Lot: 222031188
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Mar 11, 2022
Expiration: Apr 11, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Hexachlorobutadiene	87-68-3	98.0	2002	1962

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 5/18

1. **Quality Standards:**

   ISO 17034:2016 – General Requirements for the Competence of Reference Material Producers

   ISO/IEC 17025:2017 – General Requirements for the Competence of Testing And Calibration Laboratories

   ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations

2. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7.

3. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this Standard.

4. **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5. **Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6. **Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(\mathrm{V}))^2 + (u(\mathrm{m}))^2 + (u(\mathrm{IV}))^2 + (u(\mathrm{RO}))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

7. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

125 Market Street
New Haven, CT 06513
USA

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CERTIFICATE OF ANALYSIS

Catalog No: M-502-36-10X
Description: Hexachlorobutadiene
Lot: 222031188
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Mar 11, 2022
Expiration: Apr 11, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Hexachlorobutadiene	87-68-3	98.0	2002	1962

K011468

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SS1026

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	23C0752
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23C0752-01 A	File ID:	04122342ECD7.D
Sampled:	03/30/23 10:37	Prepared:	04/03/23 14:00	Analyzed:	04/12/23 23:05
% Solids:	50.24	Preparation:	EPA 3546 (Microwave)	Initial/Final:	24.88 g Wet / 2.5 mL
Batch:	BLD0010	Sequence:	SLD0150	Calibration:	GB00069
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	48.3	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	73.8	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	59.3	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*8.0002*	*7.86*	*98.2*	*40 - 126*	
Tetrachlorometaxylene	*1*	*8.0002*	*4.85*	*60.6*	*44 - 120*	
Decachlorobiphenyl	*2*	*8.0002*	*7.33*	*91.6*	*40 - 126*	
Tetrachlorometaxylene	*2*	*8.0002*	*5.72*	*71.5*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230412.b/04122342ECD7.D
Data file 2: /230412.b/230412.b/04122342ECD7.D
Method: \\target\share\chem4\ecd7.i\230412.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23C0752-01
Client ID:
Injection Date: 12-APR-2023 23:05
Report Date: 04/13/2023 09:59
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.803	-0.008	197701	5.684	-0.009	137636	24.2	28.6	16.5	Tetrachloro-m-xylene
13.883	-0.015	166493	14.111	-0.013	202297	39.3	36.7	6.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	546453	-18.9
Hexabromobiphenyl	1429847	430253	-69.9 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	328032	4.1
Hexabromobiphenyl	513946	362415	-29.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.395	-0.023	47529	178.3	1	8.299	-0.017	34456	220.0
Aroclor-1248	2	8.560	-0.038	61976	182.9	2	8.705	-0.018	30437	188.0
Aroclor-1248	3	8.983	-0.018	118393	185.2	3	9.216	0.027	41142	220.8
Aroclor-1248	4	9.284	-0.026	136500	419.4	4	9.532	-0.085	44410	198.5
		Total Col1Ave (4 peaks):			241.4		Total Col2Ave (4 peaks):			206.8 RPD = 15
		Corrected Ave (3 peaks):			182.1		Corrected Ave (3 peaks):			202.1 RPD = 10
										209.6
Aroclor-1254	1	9.284	-0.030	136500	248.8	1	9.437	-0.027	91165	365.6
Aroclor-1254	2	9.361	-0.035	51893	210.3	2	9.956	-0.029	56382	281.1
Aroclor-1254	3	9.655	-0.032	109853	311.4	3	10.105	-0.039	164347	378.7
Aroclor-1254	4	9.786	-0.045	194107	283.0	4	10.351	-0.040	190465	450.2
Aroclor-1254	5	10.115	-0.098	209164	406.5	5	10.553	-0.030	129707	503.6
		Total Col1Ave (5 peaks):			308.0		Total Col2Ave (5 peaks):			395.8 RPD = 25
		Corrected Ave (4 peaks):			263.3		Corrected Ave (4 peaks):			368.9 RPD = 33
Aroclor-1260	1	11.031	-0.025	57016	368.4	1	11.642	-0.021	78279	367.3
Aroclor-1260	2	11.347	-0.027	55362	342.3	2	11.903	-0.028	132502	243.6
Aroclor-1260	3	11.717	-0.033	137591	320.8	3	12.421	-0.024	47267	327.5
Aroclor-1260	4	12.117	-0.042	74551	345.2	4	12.486	-0.029	91025	248.3
Aroclor-1260	5	12.234	-0.021	34295	368.9	NS	---			----
		Total Col1Ave (5 peaks):			349.1		Total Col2Ave (4 peaks):			296.7 RPD = 16
		Corrected Ave (4 peaks):			344.2		Corrected Ave (3 peaks):			273.1 RPD = 23
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.911 - 13.799) = 3436656 Col1 Total PCB = 0.5 ppm*

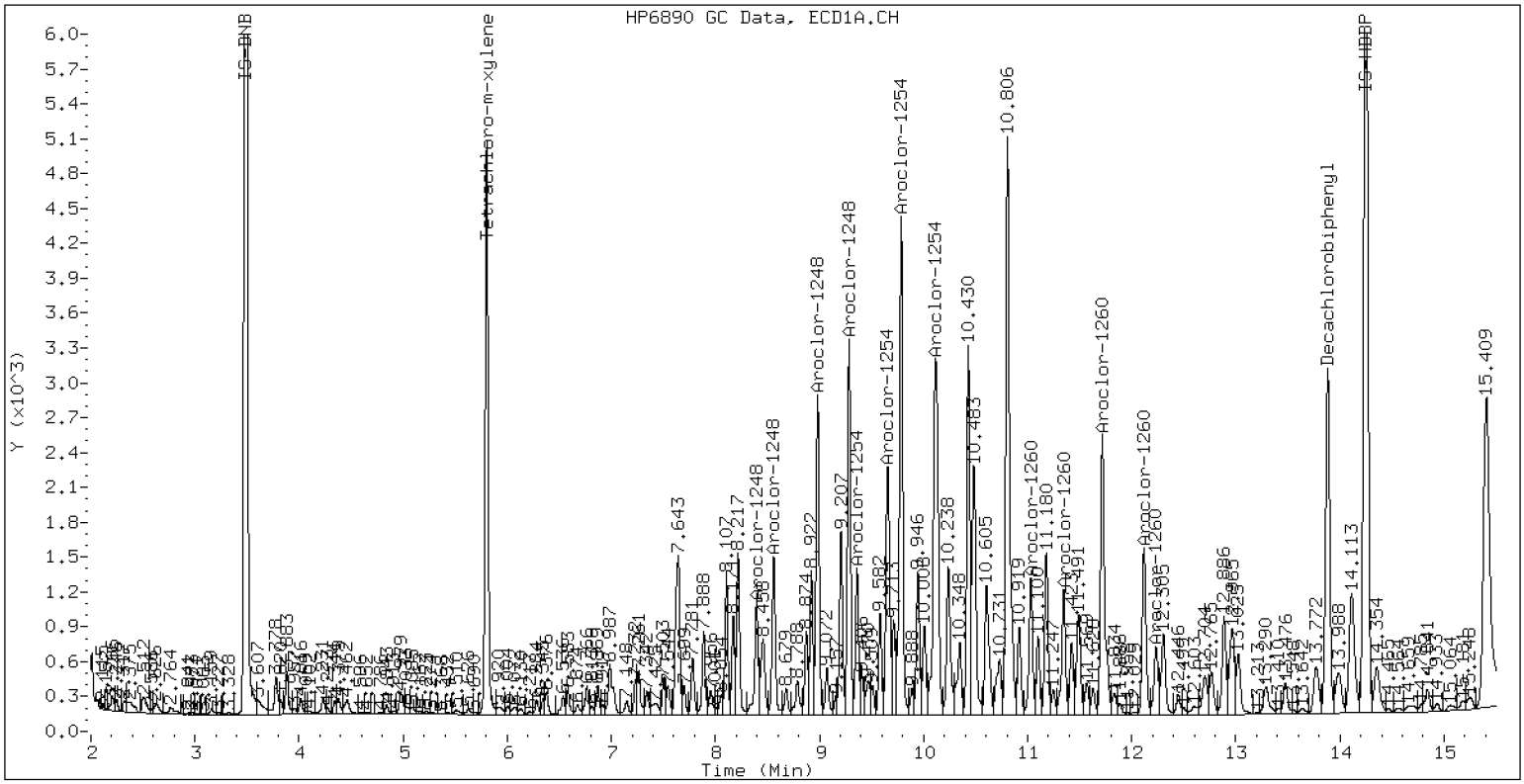
Total PCB Area Col2 (5.793 - 14.023) = 2814908 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

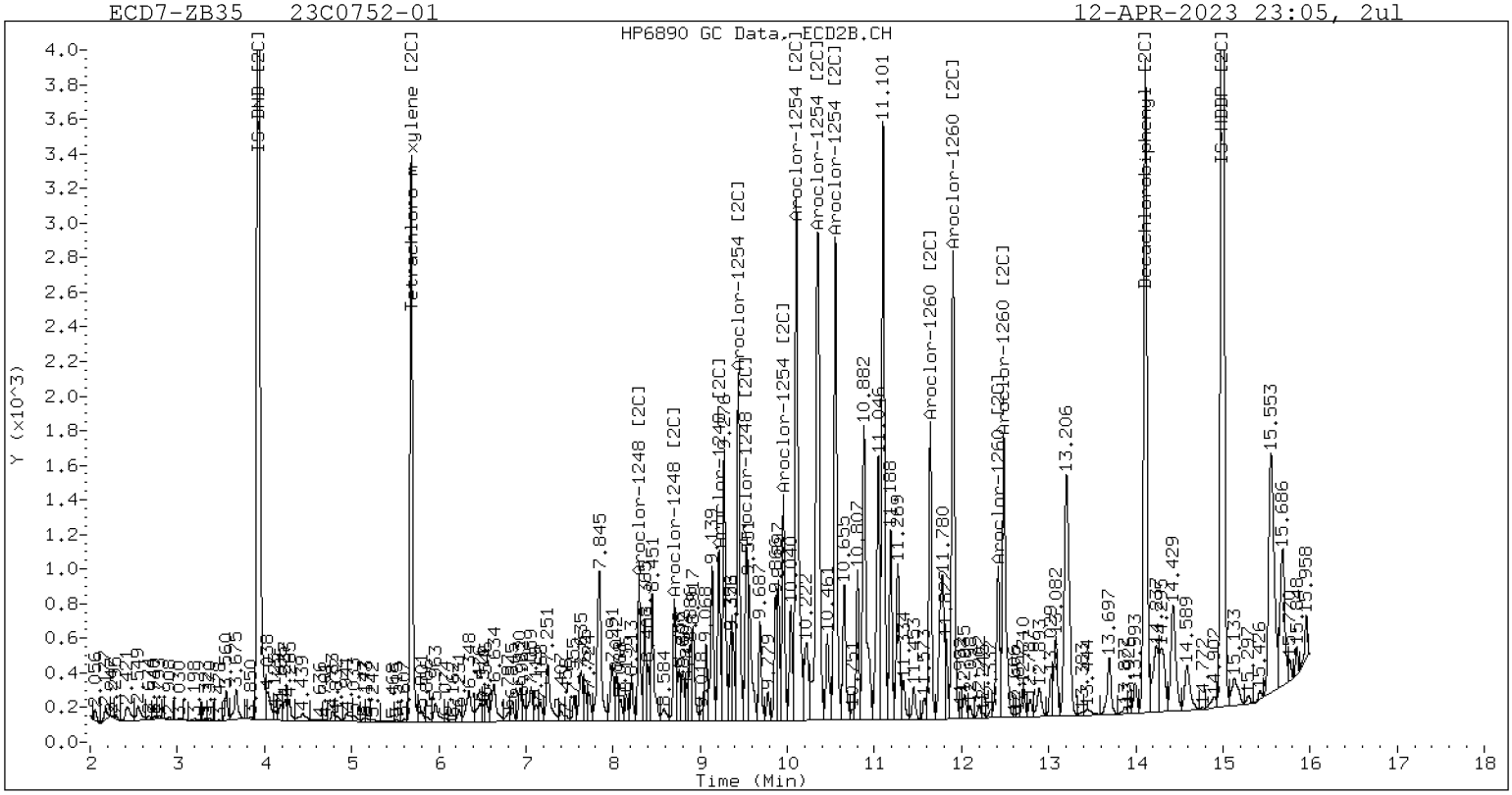
PCB Dual Column Chromatograms

ECD7-ZB5 23C0752-01 12-APR-2023 23:05, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23C0752-01 12-APR-2023 23:05, 2ul

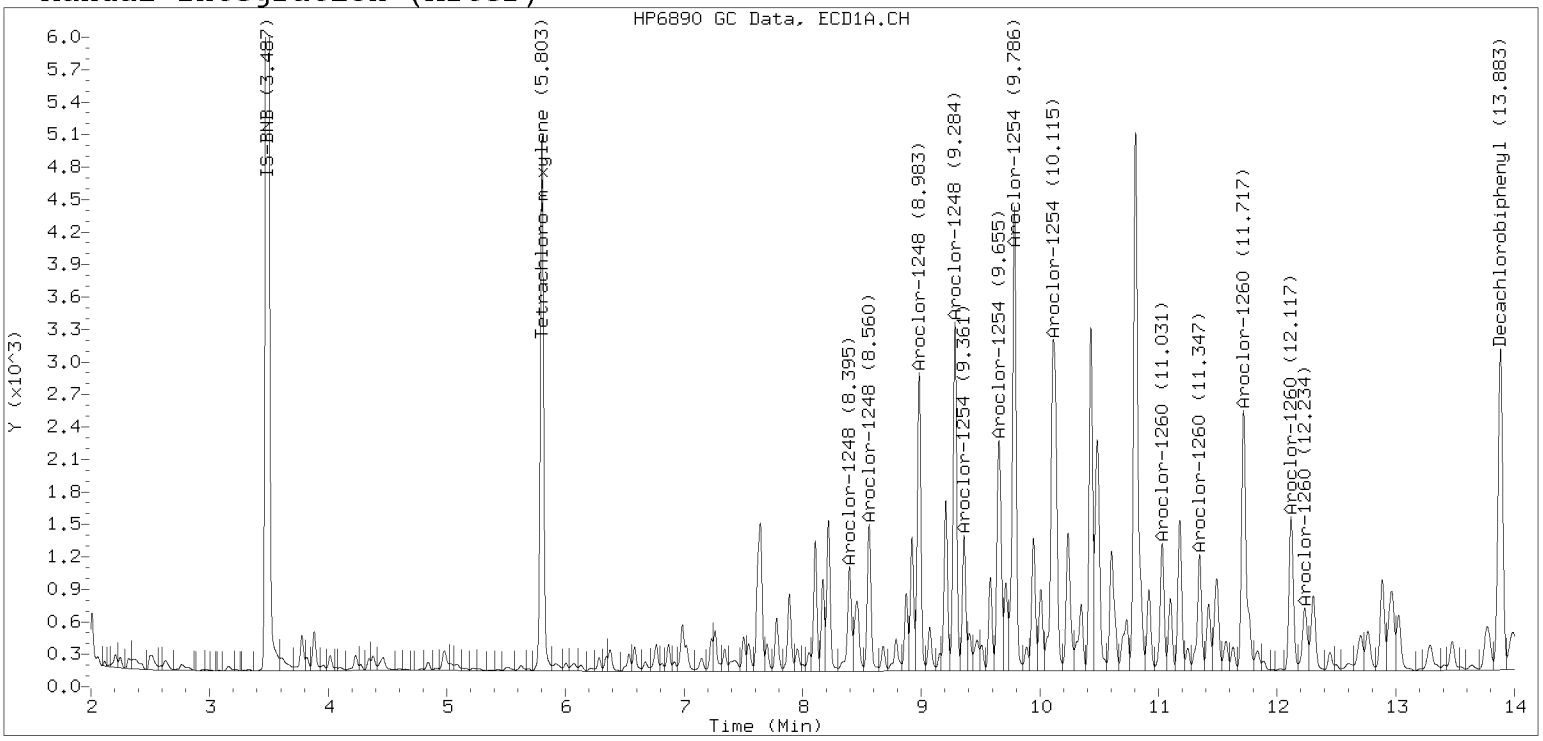


ZB-35 Manual Integration: YES

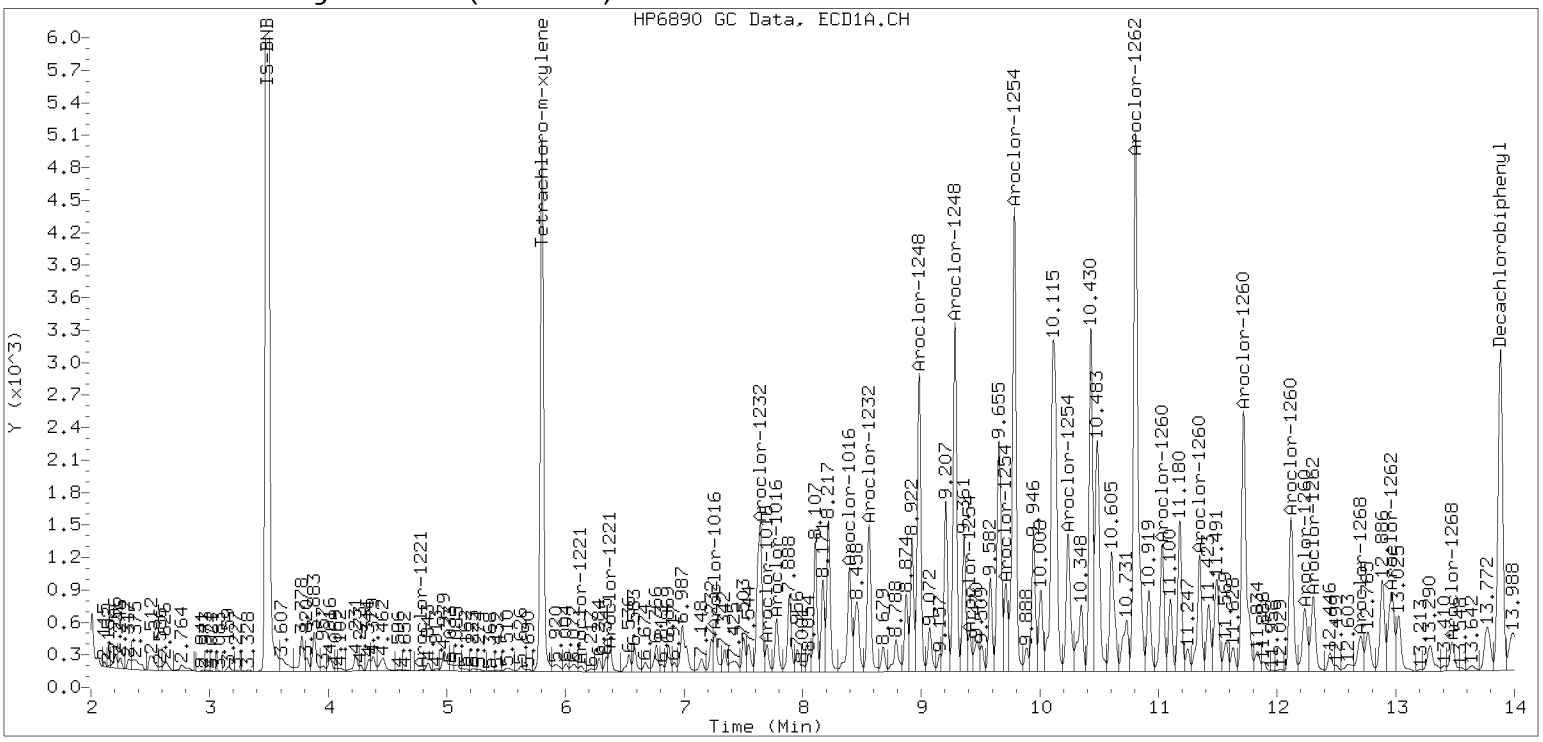
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230412.b/04122342ECD7.D Injection Date: 12-APR-2023 23:05

Manual Integration (After)



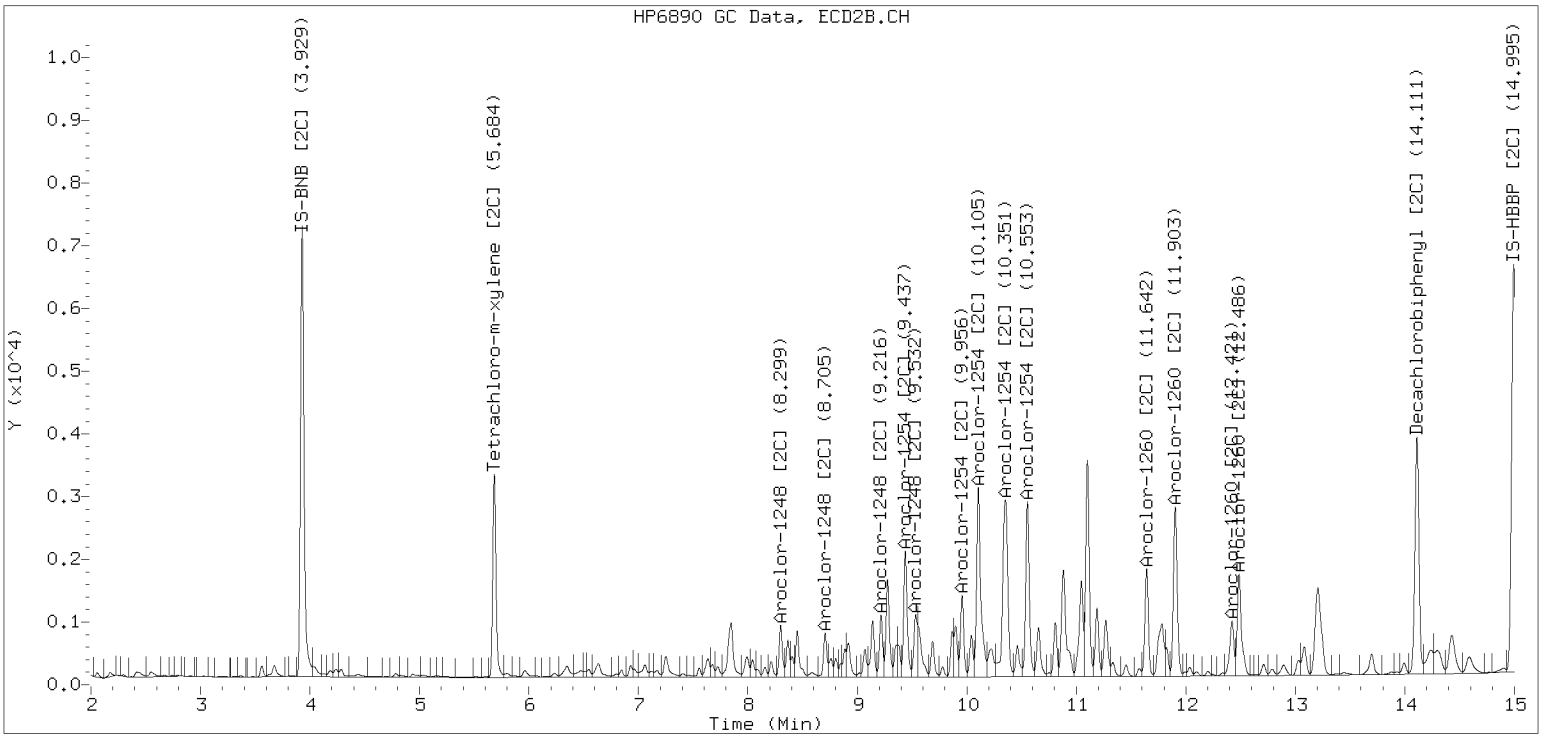
Processed Integration (Before)



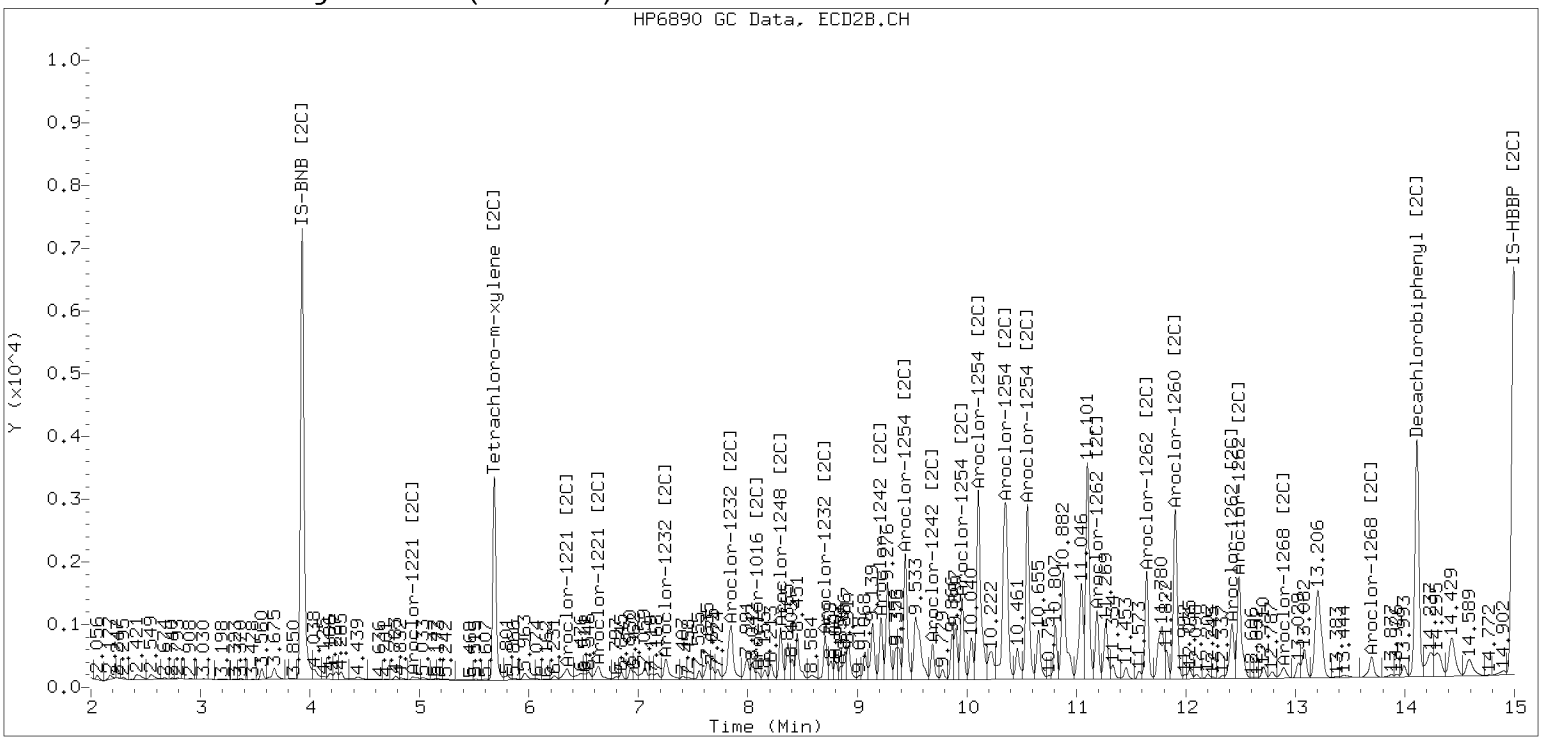
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230412.b/230412.b/04122342ECD7.D Injection Date: 12-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SS1125

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	23C0752
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23C0752-02 A	File ID:	04122343ECD7.D
Sampled:	03/30/23 11:10	Prepared:	04/03/23 14:00	Analyzed:	04/12/23 23:25
% Solids:	49.66	Preparation:	EPA 3546 (Microwave)	Initial/Final:	25.17 g Wet / 2.5 mL
Batch:	BLD0010	Sequence:	SLD0150	Calibration:	GB00069
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	39.6	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	67.7	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	52.7	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*8.0004*	*7.09*	*88.6*	*40 - 126*	
Tetrachlorometaxylene	*1*	*8.0004*	*5.12*	*64.0*	*44 - 120*	
Decachlorobiphenyl	*2*	*8.0004*	*6.66*	*83.2*	*40 - 126*	
Tetrachlorometaxylene	*2*	*8.0004*	*5.85*	*73.2*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230412.b/04122343ECD7.D
Data file 2: /230412.b/230412.b/04122343ECD7.D
Method: \\target\share\chem4\ecd7.i\230412.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23C0752-02
Client ID:
Injection Date: 12-APR-2023 23:25
Report Date: 04/13/2023 09:59
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.804	-0.007	208091	5.685	-0.008	143085	25.6	29.3	13.3	Tetrachloro-m-xylene
13.884	-0.014	146682	14.111	-0.012	179946	35.4	33.3	6.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	544205	-19.2
Hexabromobiphenyl	1429847	420221	-70.6 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	333279	5.7
Hexabromobiphenyl	513946	355086	-30.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.395	-0.023	40838	153.8	1	8.299	-0.017	33386	209.8
Aroclor-1248	2	8.565	-0.034	36424	107.9	2	8.705	-0.018	28533	173.4
Aroclor-1248	3	8.982	-0.018	105100	165.1	3	9.217	0.028	38193	201.7
Aroclor-1248	4	9.285	-0.025	118214	364.7	4	9.531	-0.086	39557	1~~74~~.0
		Total Col1Ave (4 peaks):			197.9	Total Col2Ave (4 peaks):				189.7 RPD = 4
		Corrected Ave (3 peaks):			142.3	Corrected Ave (3 peaks):				183.0 RPD = 25
										194.97
Aroclor-1254	1	9.285	-0.030	118214	216.3	1	9.437	-0.027	77137	304.5
Aroclor-1254	2	9.360	-0.036	46190	187.9	2	9.956	-0.030	46529	228.3
Aroclor-1254	3	9.656	-0.032	94584	269.2	3	10.106	-0.038	136384	309.3
Aroclor-1254	4	9.786	-0.045	162382	237.7	4	10.349	-0.042	179744	418.2
Aroclor-1254	5	10.124	-0.088	201135	4~~69~~.8	5	10.553	-0.030	112791	431.0
		Total Col1Ave (5 peaks):			2~~76~~.2	Total Col2Ave (5 peaks):				338.3 RPD = 20
		Corrected Ave (4 peaks):			227.8	Corrected Ave (4 peaks):				315.1 RPD = 32
Aroclor-1260	1	11.032	-0.024	50309	332.8	1	11.642	-0.021	64928	311.0
Aroclor-1260	2	11.347	-0.026	42414	268.5	2	11.903	-0.028	107598	201.9
Aroclor-1260	3	11.718	-0.033	119604	285.5	3	12.422	-0.023	44990	318.2
Aroclor-1260	4	12.119	-0.040	64169	304.2	4	12.486	-0.028	79755	222.0
Aroclor-1260	5	12.233	-0.022	28256	311.2	NS	---			----
		Total Col1Ave (5 peaks):			300.4	Total Col2Ave (4 peaks):				263.3 RPD = 13
		Corrected Ave (4 peaks):			292.4	Corrected Ave (3 peaks):				245.0 RPD = 18
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.911 - 13.799) = 2942753 Col1 Total PCB = 0.5 ppm*

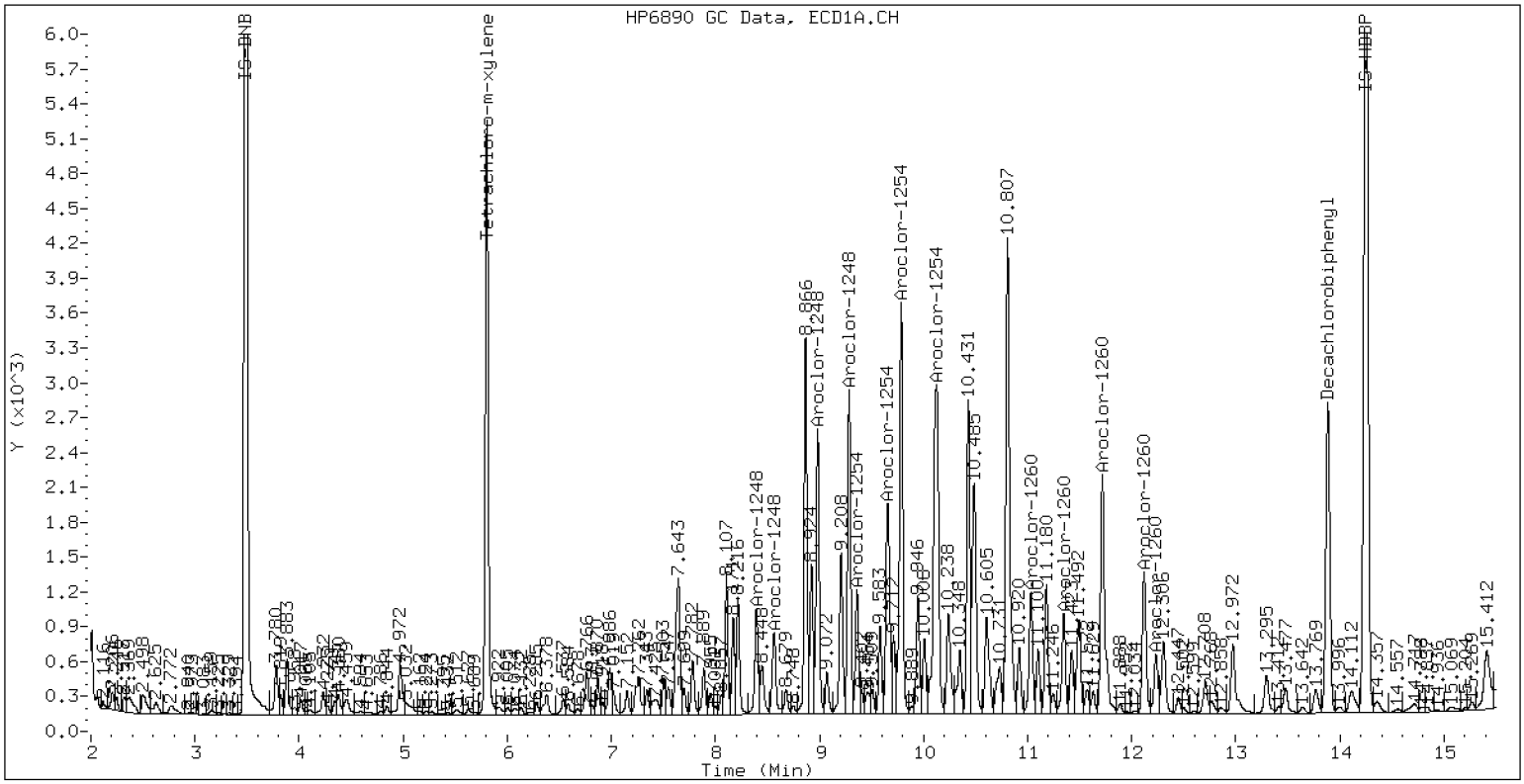
Total PCB Area Col2 (5.793 - 14.023) = 2378091 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

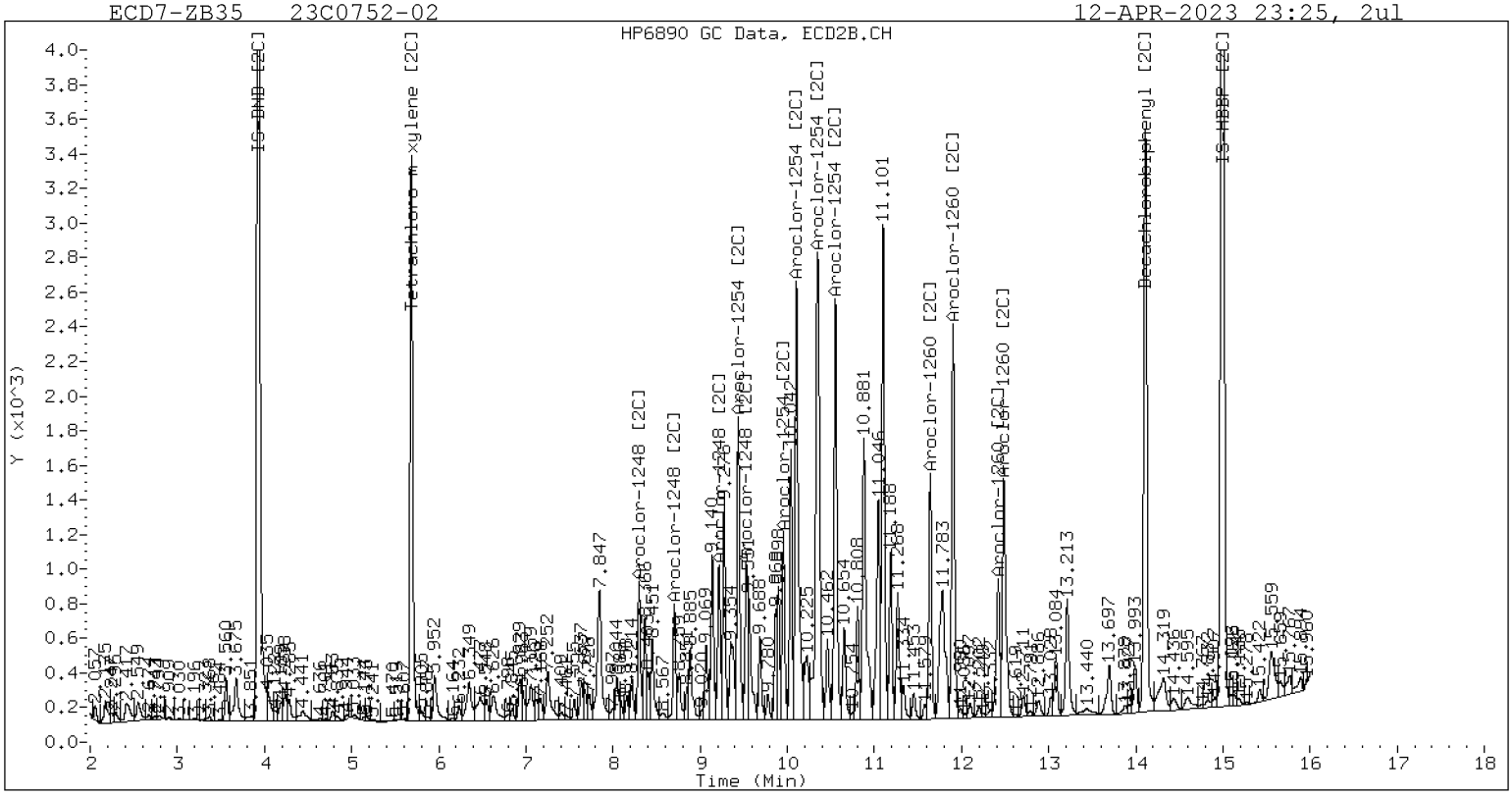
PCB Dual Column Chromatograms

ECD7-ZB5 23C0752-02 12-APR-2023 23:25, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23C0752-02 12-APR-2023 23:25, 2ul

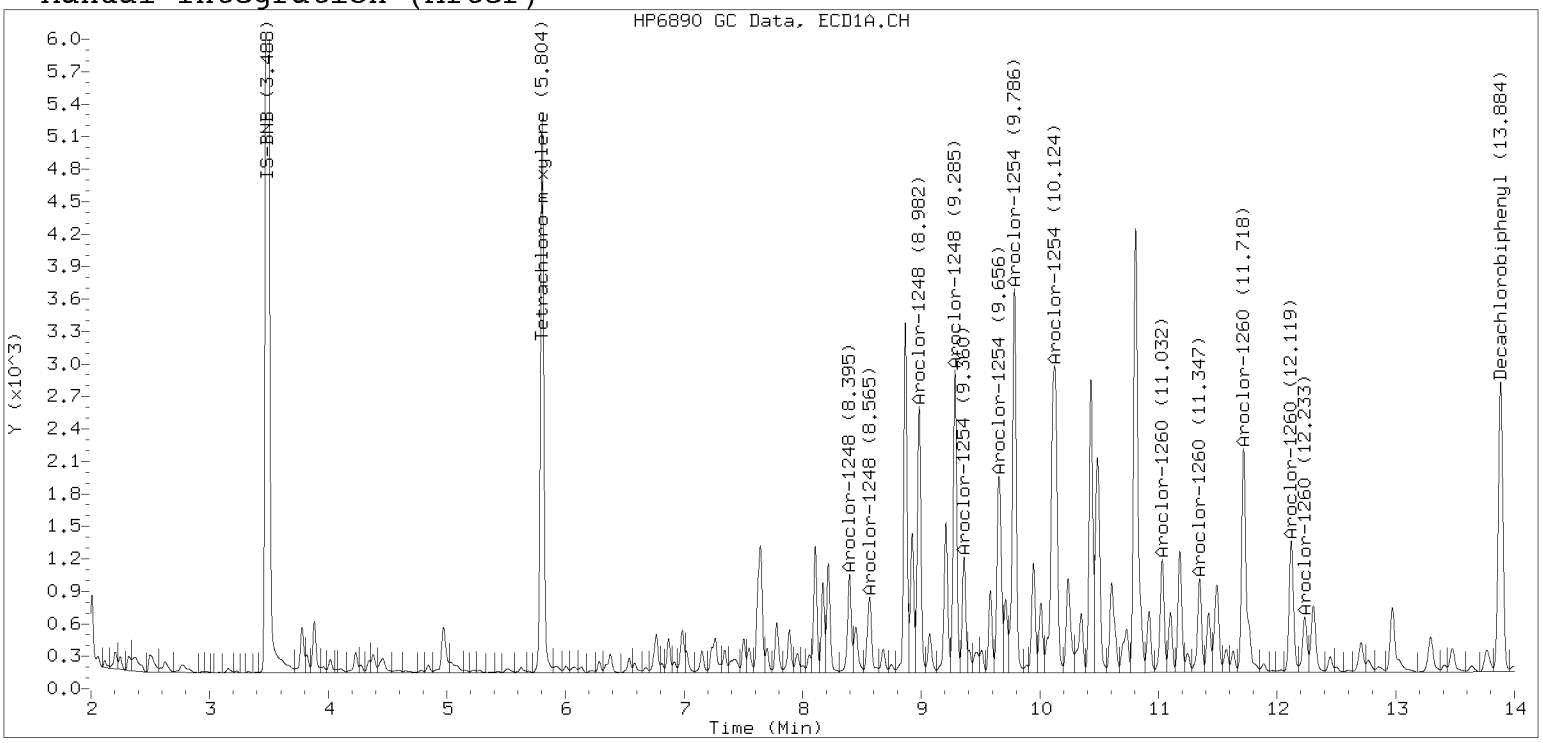


ZB-35 Manual Integration: YES

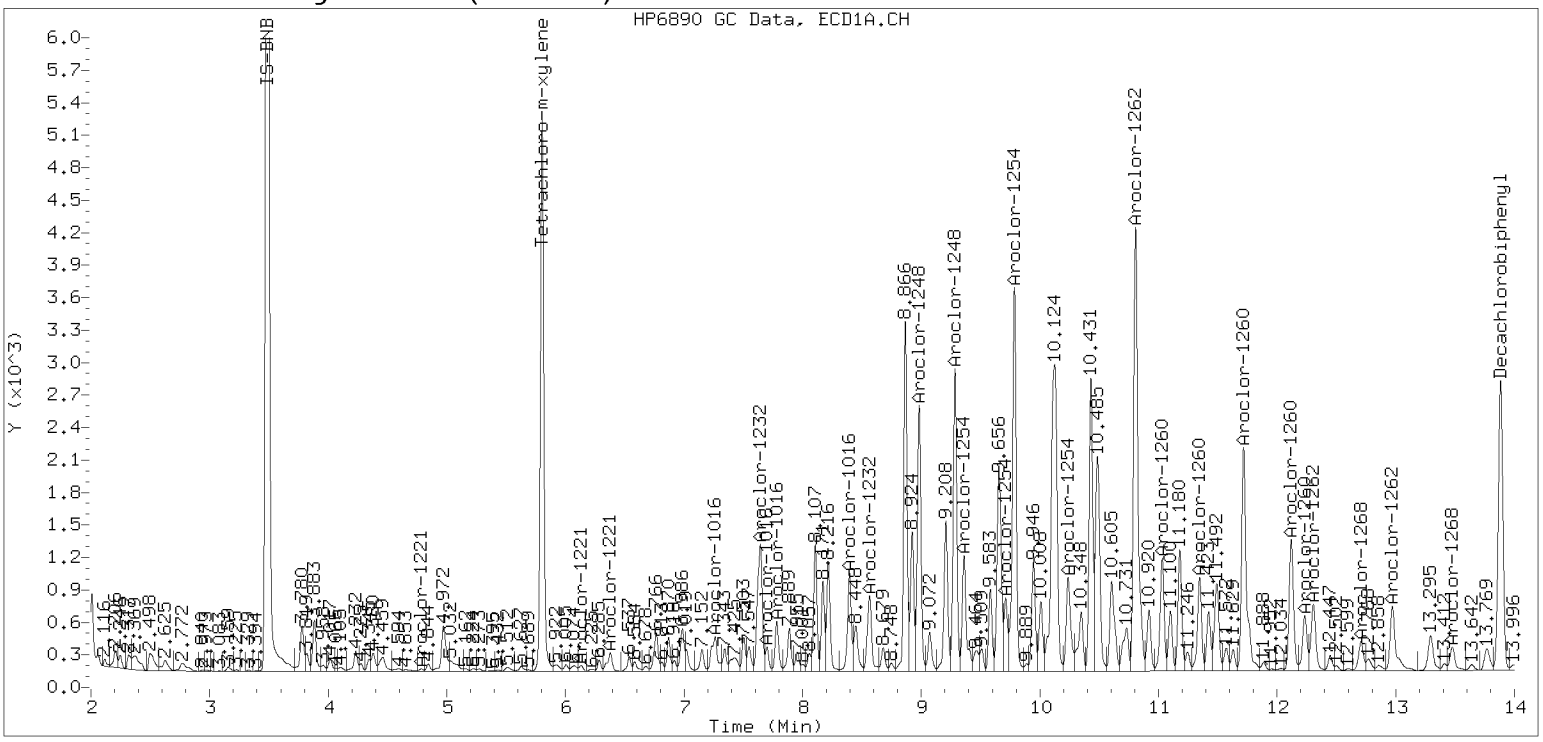
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230412.b/04122343ECD7.D Injection Date: 12-APR-2023 23:25

Manual Integration (After)



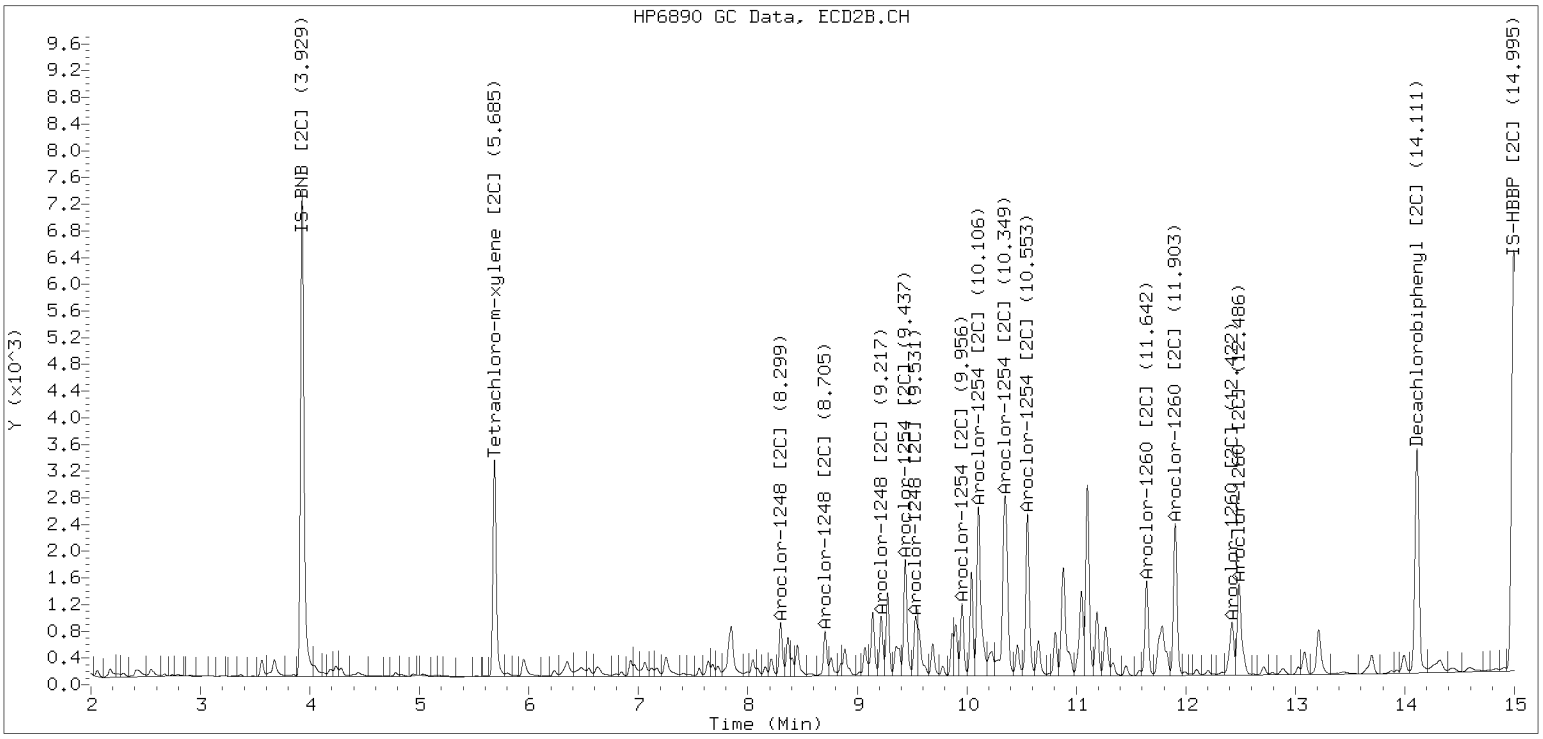
Processed Integration (Before)



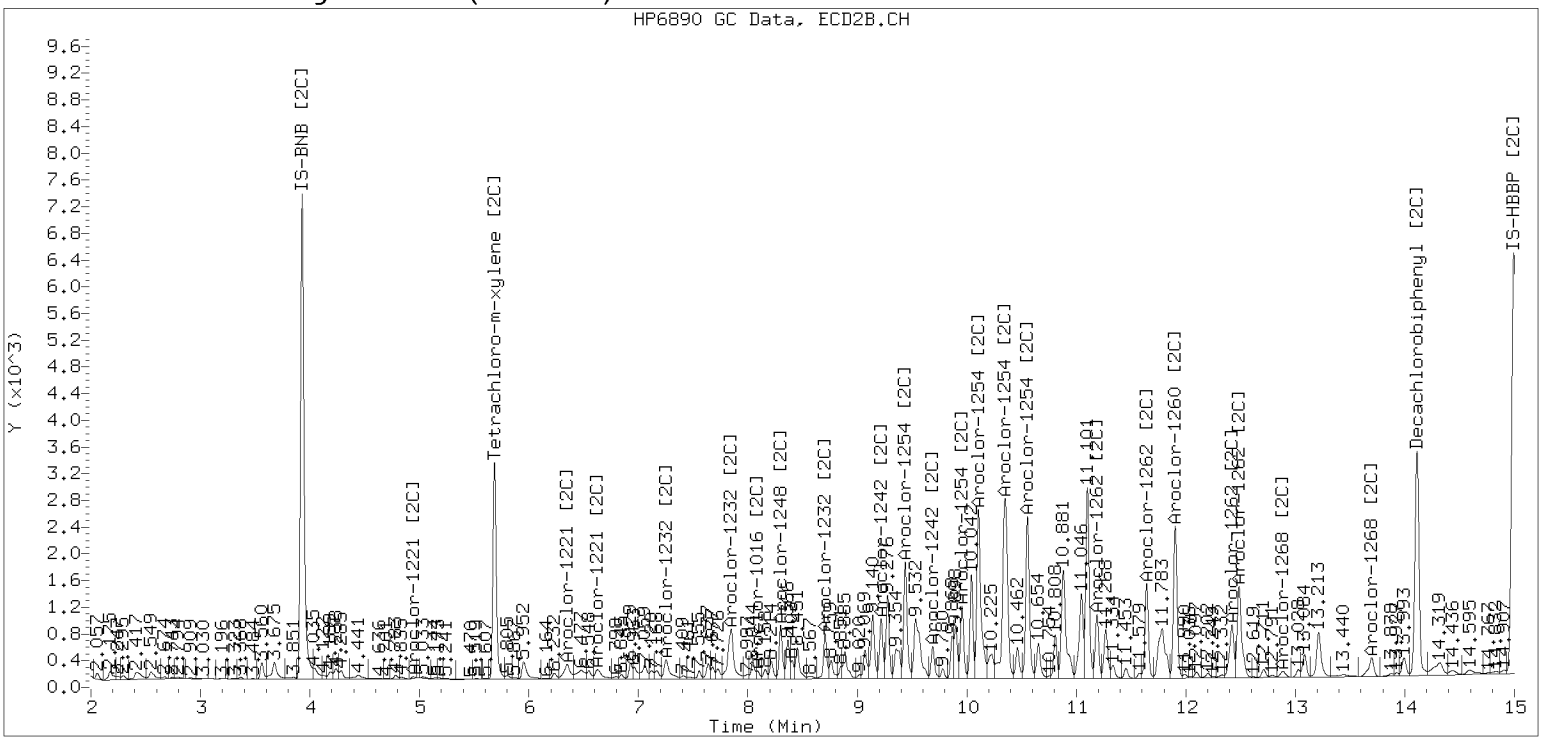
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230412.b/230412.b/04122343ECD7.D Injection Date: 12-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SS1132

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	23C0752
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23C0752-03 A	File ID:	04122344ECD7.D
Sampled:	03/30/23 11:30	Prepared:	04/03/23 14:00	Analyzed:	04/12/23 23:46
% Solids:	50.66	Preparation:	EPA 3546 (Microwave)	Initial/Final:	24.67 g Wet / 2.5 mL
Batch:	BLD0010	Sequence:	SLD0150	Calibration:	GB00069
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	102	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	109	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	70.4	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*8.0014*	*7.23*	*90.3*	*40 - 126*	
Tetrachlorometaxylene	*1*	*8.0014*	*4.85*	*60.7*	*44 - 120*	
Decachlorobiphenyl	*2*	*8.0014*	*6.99*	*87.3*	*40 - 126*	
Tetrachlorometaxylene	*2*	*8.0014*	*5.89*	*73.7*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230412.b/04122344ECD7.D
Data file 2: /230412.b/230412.b/04122344ECD7.D
Method: \\target\share\chem4\ecd7.i\230412.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23C0752-03
Client ID:
Injection Date: 12-APR-2023 23:46
Report Date: 04/13/2023 09:59
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.803	-0.008	192529	5.684	-0.008	139691	24.3	29.5	19.4	Tetrachloro-m-xylene
13.884	-0.015	133655	14.110	-0.013	174663	36.1	34.9	3.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	531506	-21.1
Hexabromobiphenyl	1429847	375622	-73.7 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	323095	2.5
Hexabromobiphenyl	513946	328349	-36.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.396	-0.022	138465	533.9	1	8.299	-0.016	95784	620.9
Aroclor-1248	2	8.565	-0.034	159195	482.9	2	8.705	-0.018	106149	665.5
Aroclor-1248	3	8.981	-0.020	242917	390.6	3	9.215	0.027	113243	616.9
Aroclor-1248	4	9.284	-0.026	201459	636.3	4	9.558	-0.058	180817	820.5
		Total Col1Ave (4 peaks):			511.0		Total Col2Ave (4 peaks):			681.0 RPD = 29
		Corrected Ave (3 peaks):			469.2		Corrected Ave (3 peaks):			634.4 RPD = 30
Aroclor-1254	1	9.284	-0.031	201459	377.5	1	9.437	-0.027	121212	493.6
Aroclor-1254	2	9.361	-0.035	83686	348.6	2	9.956	-0.030	83297	421.6
Aroclor-1254	3	9.655	-0.032	170052	495.6	3	10.105	-0.039	235129	550.1
Aroclor-1254	4	9.786	-0.045	279239	418.5	4	10.347	-0.044	259854	623.6
Aroclor-1254	5	10.125	-0.088	293345	701.5	5	10.553	-0.030	159811	629.9
		Total Col1Ave (5 peaks):			460.3		Total Col2Ave (5 peaks):			543.8 RPD = 15
		Corrected Ave (4 peaks):			410.1		Corrected Ave (4 peaks):			522.2 RPD = 24
Aroclor-1260	1	11.031	-0.024	56790	420.3	1	11.641	-0.021	93333	483.4
Aroclor-1260	2	11.347	-0.026	50246	355.9	2	11.902	-0.029	137234	278.5
Aroclor-1260	3	11.717	-0.034	142878	381.6	3	12.421	-0.024	47763	365.3
Aroclor-1260	4	12.118	-0.041	78217	414.8	4	12.486	-0.029	92915	279.7
Aroclor-1260	5	12.232	-0.022	29650	365.3	NS	---			----
		Total Col1Ave (5 peaks):			387.6		Total Col2Ave (4 peaks):			351.7 RPD = 10
		Corrected Ave (4 peaks):			379.4		Corrected Ave (3 peaks):			307.8 RPD = 21
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.911 - 13.799) = 5382886 Col1 Total PCB = 0.8 ppm*

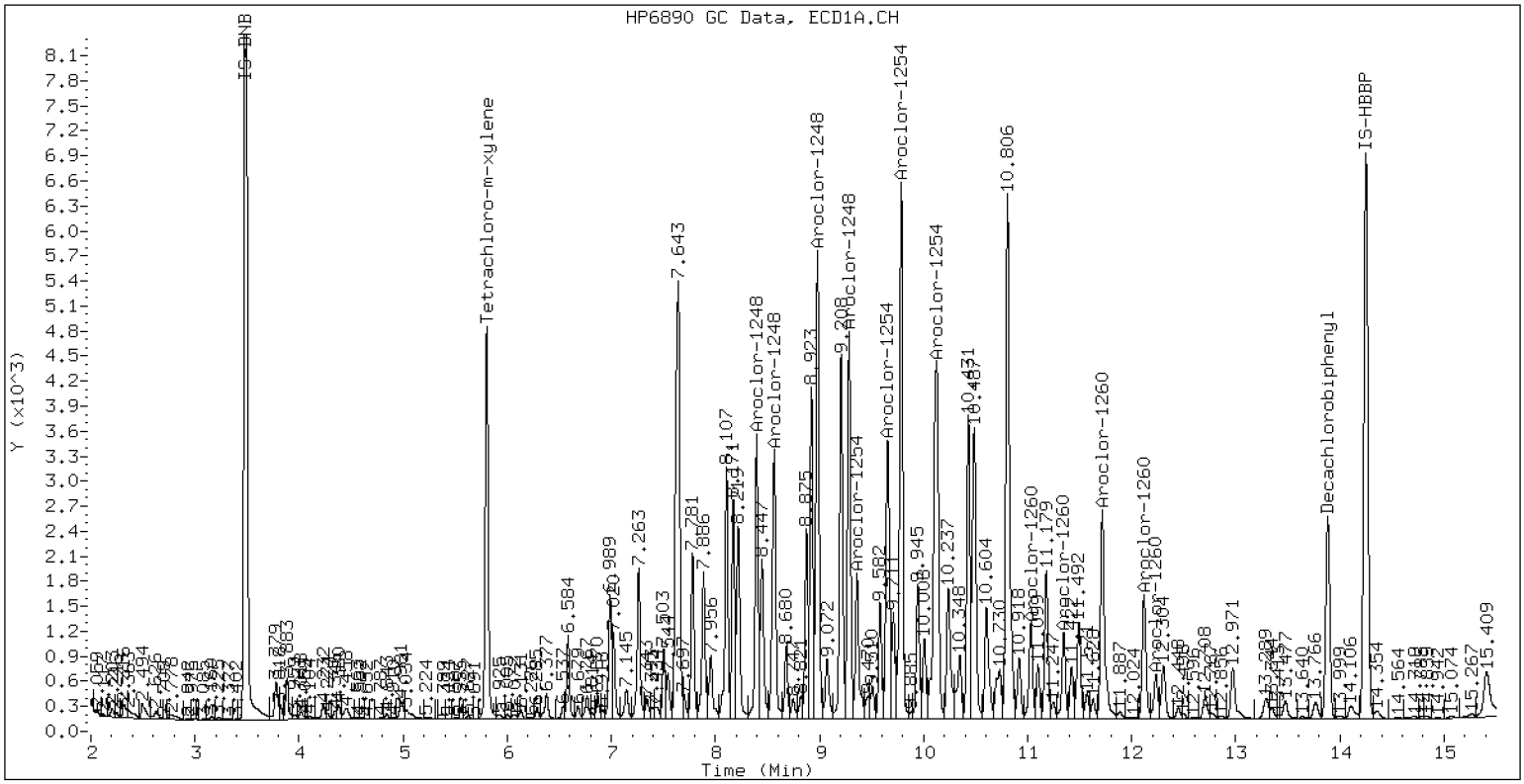
Total PCB Area Col2 (5.793 - 14.023) = 4274945 Col2 Total PCB = 1.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

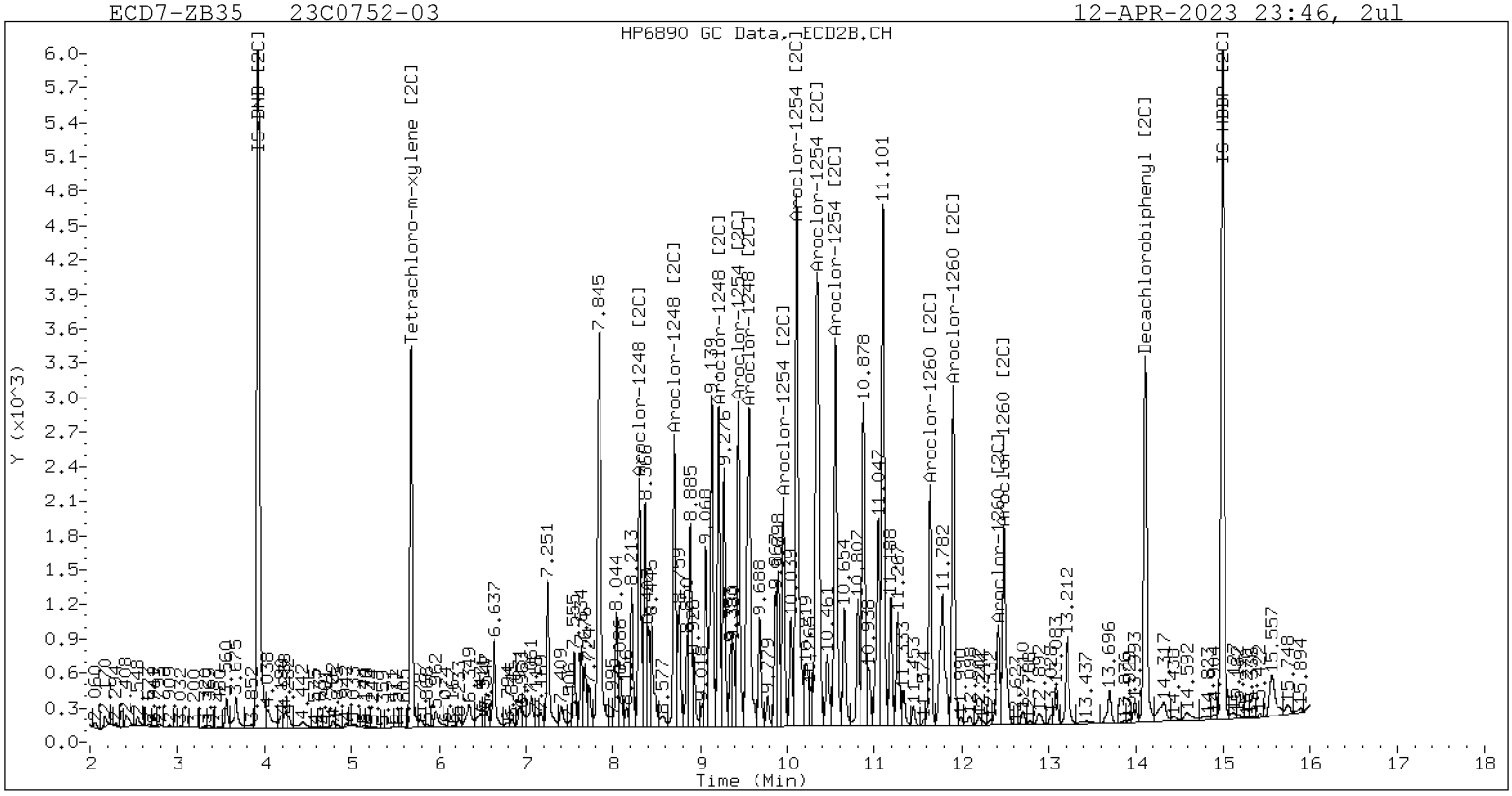
PCB Dual Column Chromatograms

ECD7-ZB5 23C0752-03 12-APR-2023 23:46, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23C0752-03 12-APR-2023 23:46, 2ul

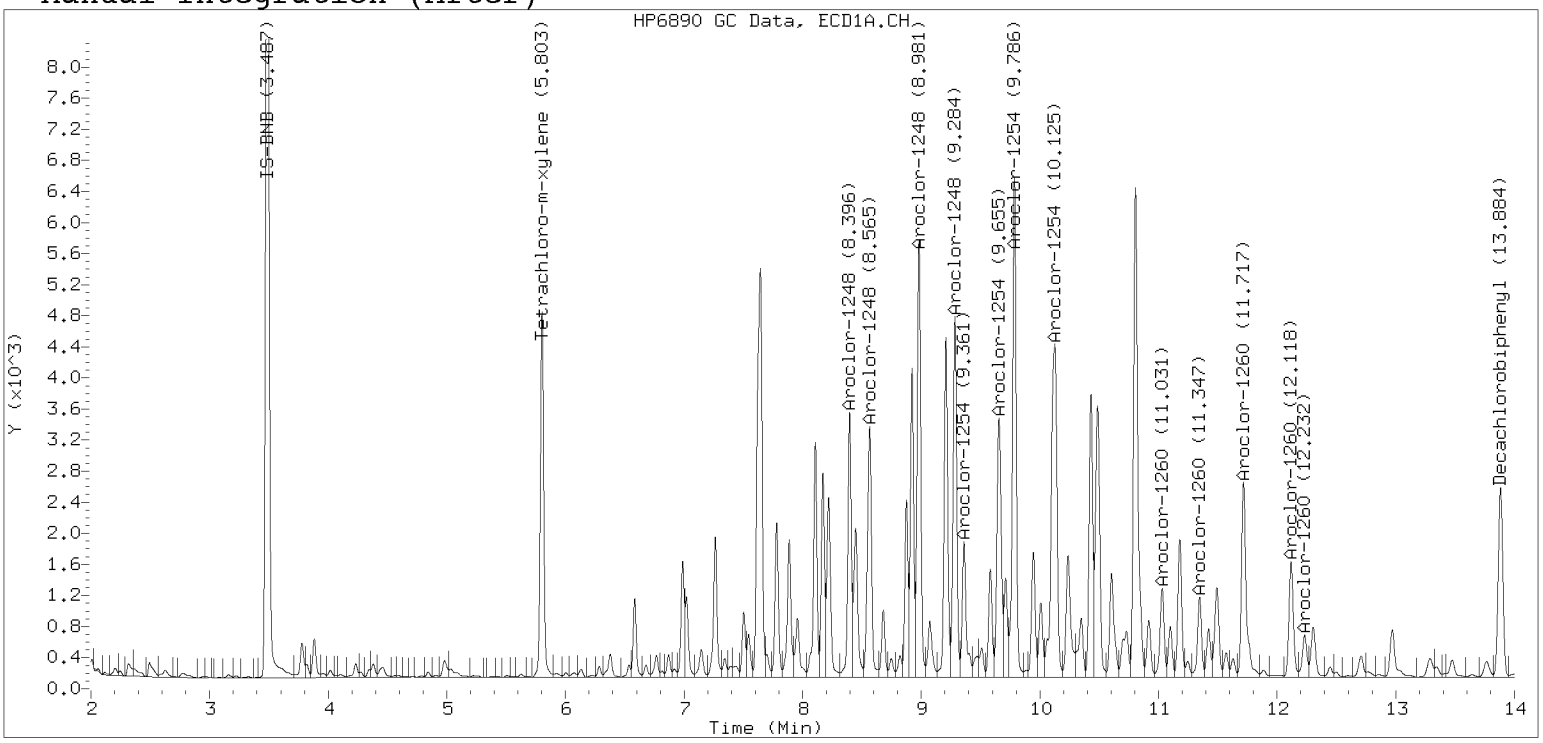


ZB-35 Manual Integration: NO

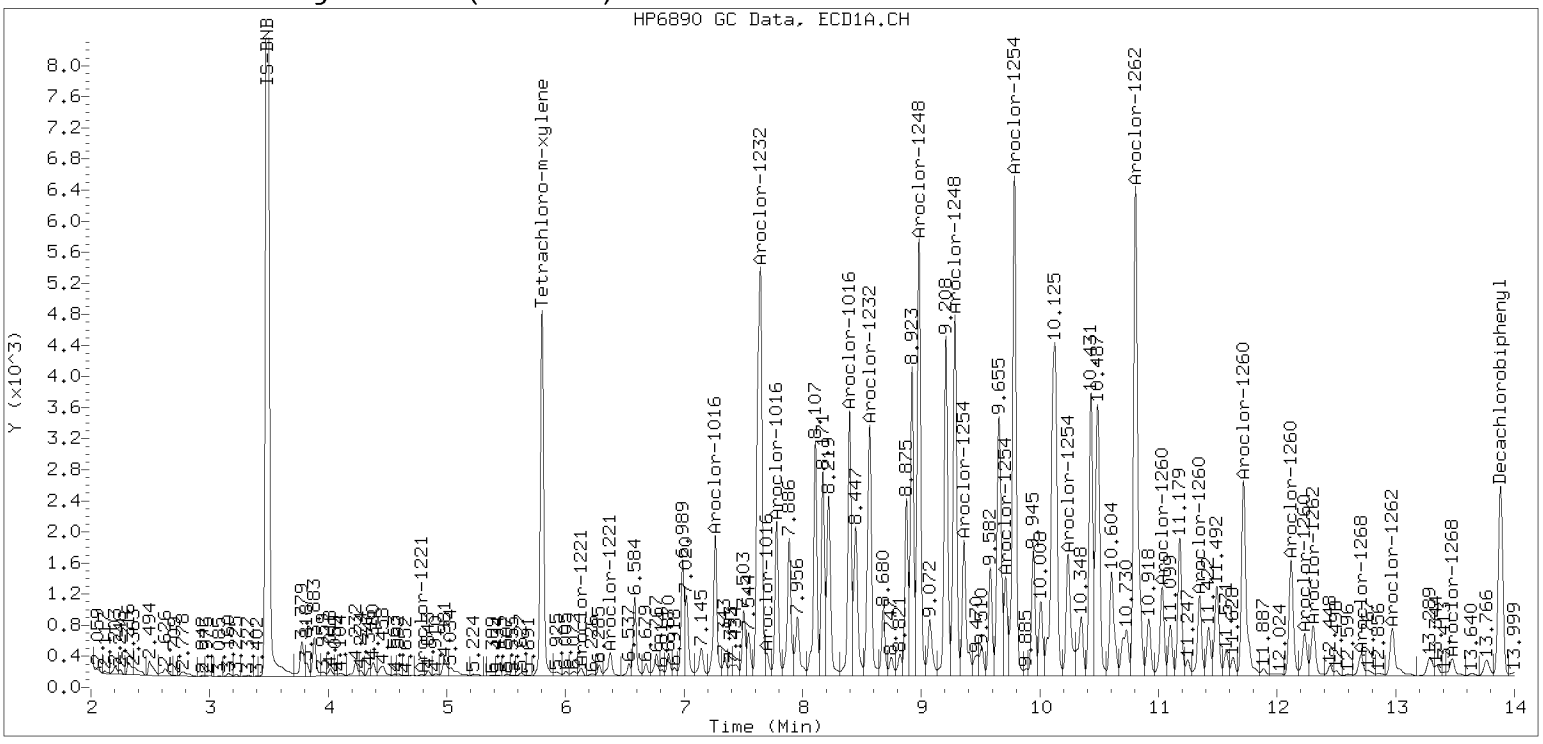
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230412.b/04122344ECD7.D Injection Date: 12-APR-2023 23:46

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SS1810

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	23C0752
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23C0752-04 A	File ID:	04122345ECD7.D
Sampled:	03/30/23 10:36	Prepared:	04/03/23 14:00	Analyzed:	04/13/23 00:07
% Solids:	52.71	Preparation:	EPA 3546 (Microwave)	Initial/Final:	23.72 g Wet / 2.5 mL
Batch:	BLD0010	Sequence:	SLD0150	Calibration:	GB00069
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	27.6	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	47.7	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	49.1	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9982*	*7.05*	*88.1*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9982*	*4.93*	*61.7*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9982*	*6.58*	*82.2*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9982*	*5.61*	*70.2*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230412.b/04122345ECD7.D
Data file 2: /230412.b/230412.b/04122345ECD7.D
Method: \\target\share\chem4\ecd7.i\230412.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23C0752-04
Client ID:
Injection Date: 13-APR-2023 00:07
Report Date: 04/13/2023 09:59
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.803	-0.008	198060	5.683	-0.010	138170	24.7	28.1	12.9	Tetrachloro-m-xylene
13.884	-0.015	144627	14.111	-0.012	175252	35.2	32.9	6.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	537679	-20.2
Hexabromobiphenyl	1429847	416665	-70.9 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	335453	6.4
Hexabromobiphenyl	513946	349815	-31.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	ZB5 Col Area	Amount	Peak#	RT	Shift	ZB35 Col Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.394	-0.024	29673	113.1	1	8.299	-0.017	22684	141.6
Aroclor-1248	2	8.563	-0.036	25338	76.0	2	8.705	-0.018	20220	122.1
Aroclor-1248	3	8.982	-0.019	72422	115.1	3	9.216	0.027	28251	148.2
Aroclor-1248	4	9.284	-0.027	79385	247.9	4	9.531	-0.085	26681	116.6
	Total Col1Ave (4 peaks):				138.0	Total Col2Ave (4 peaks):				132.1 RPD = 4
	Corrected Ave (3 peaks):				101.4	Corrected Ave (3 peaks):				126.8 RPD = 22
										137.3
Aroclor-1254	1	9.284	-0.031	79385	147.0	1	9.437	-0.027	52886	207.4
Aroclor-1254	2	9.360	-0.036	31825	131.1	2	9.956	-0.030	30295	147.7
Aroclor-1254	3	9.657	-0.030	68738	198.0	3	10.105	-0.038	96727	218.0
Aroclor-1254	4	9.785	-0.045	111609	165.4	4	10.351	-0.040	118965	275.0
Aroclor-1254	5	10.115	-0.097	143766	339.8	5	10.553	-0.031	91101	345.9
	Total Col1Ave (5 peaks):				196.3	Total Col2Ave (5 peaks):				238.8 RPD = 20
	Corrected Ave (4 peaks):				160.4	Corrected Ave (4 peaks):				212.0 RPD = 28
Aroclor-1260	1	11.031	-0.025	47916	319.7	1	11.642	-0.021	54428	264.6
Aroclor-1260	2	11.347	-0.027	38927	248.6	2	11.904	-0.027	106525	202.9
Aroclor-1260	3	11.717	-0.033	118258	284.7	3	12.421	-0.024	42609	305.9
Aroclor-1260	4	12.118	-0.041	57956	277.1	4	12.486	-0.029	73803	208.6
Aroclor-1260	5	12.233	-0.022	26625	295.7	NS	---			----
	Total Col1Ave (5 peaks):				285.2	Total Col2Ave (4 peaks):				245.5 RPD = 15
	Corrected Ave (4 peaks):				276.5	Corrected Ave (3 peaks):				225.4 RPD = 20
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.911 - 13.799) = 2263411 Col1 Total PCB = 0.4 ppm*

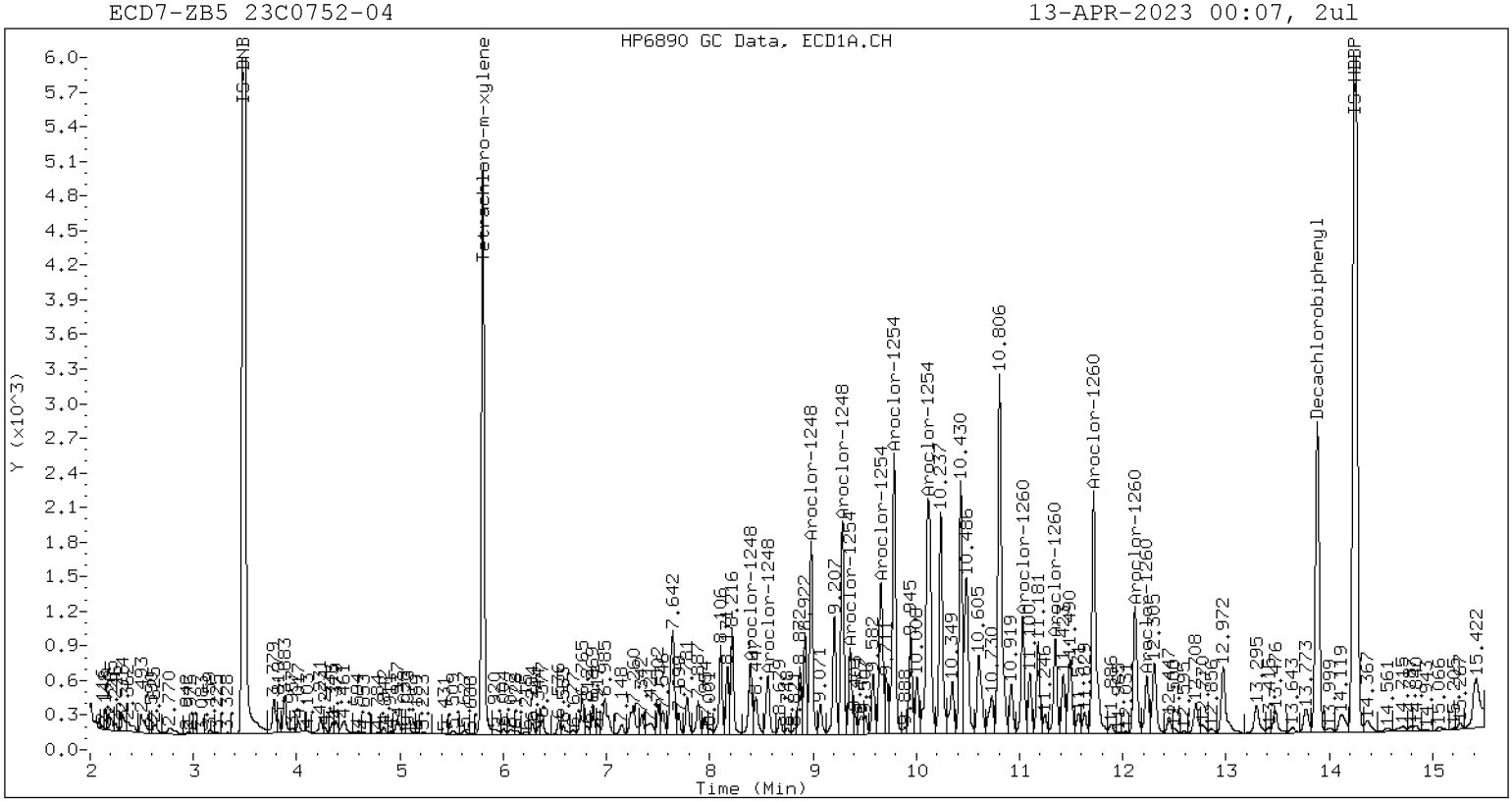
Total PCB Area Col2 (5.793 - 14.023) = 1858971 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

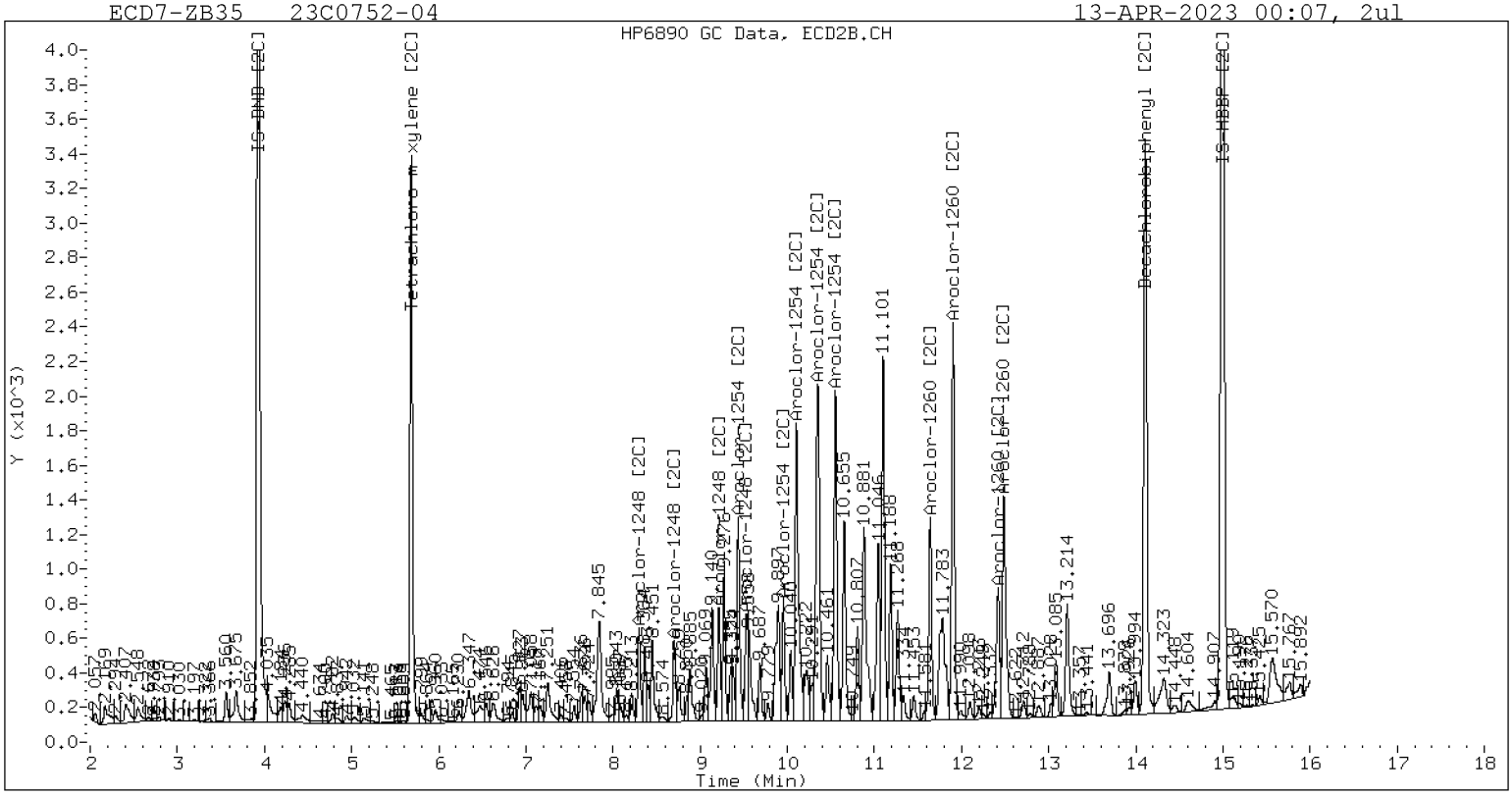
PCB Dual Column Chromatograms

ECD7-ZB5 23C0752-04 13-APR-2023 00:07, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23C0752-04 13-APR-2023 00:07, 2ul

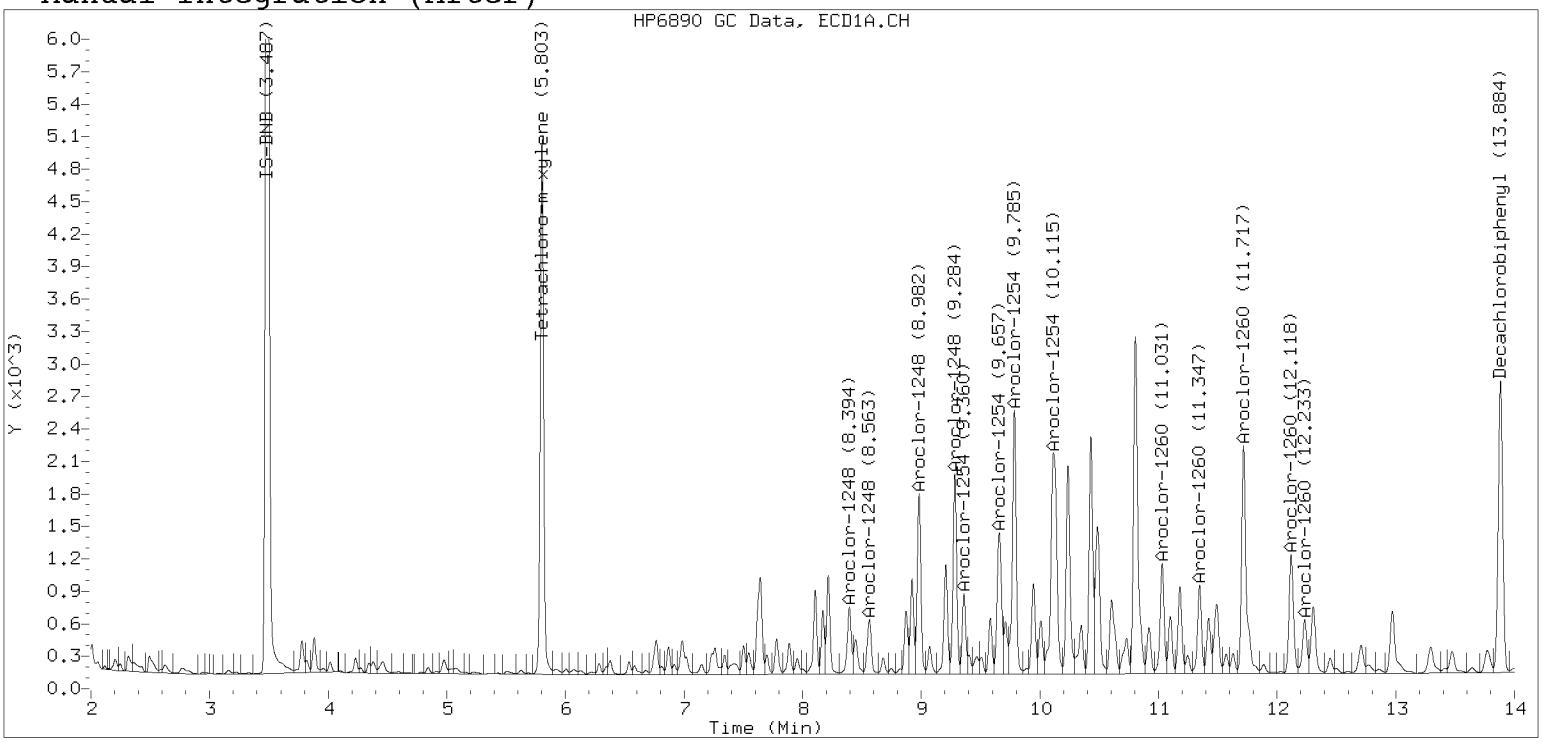


ZB-35 Manual Integration: YES

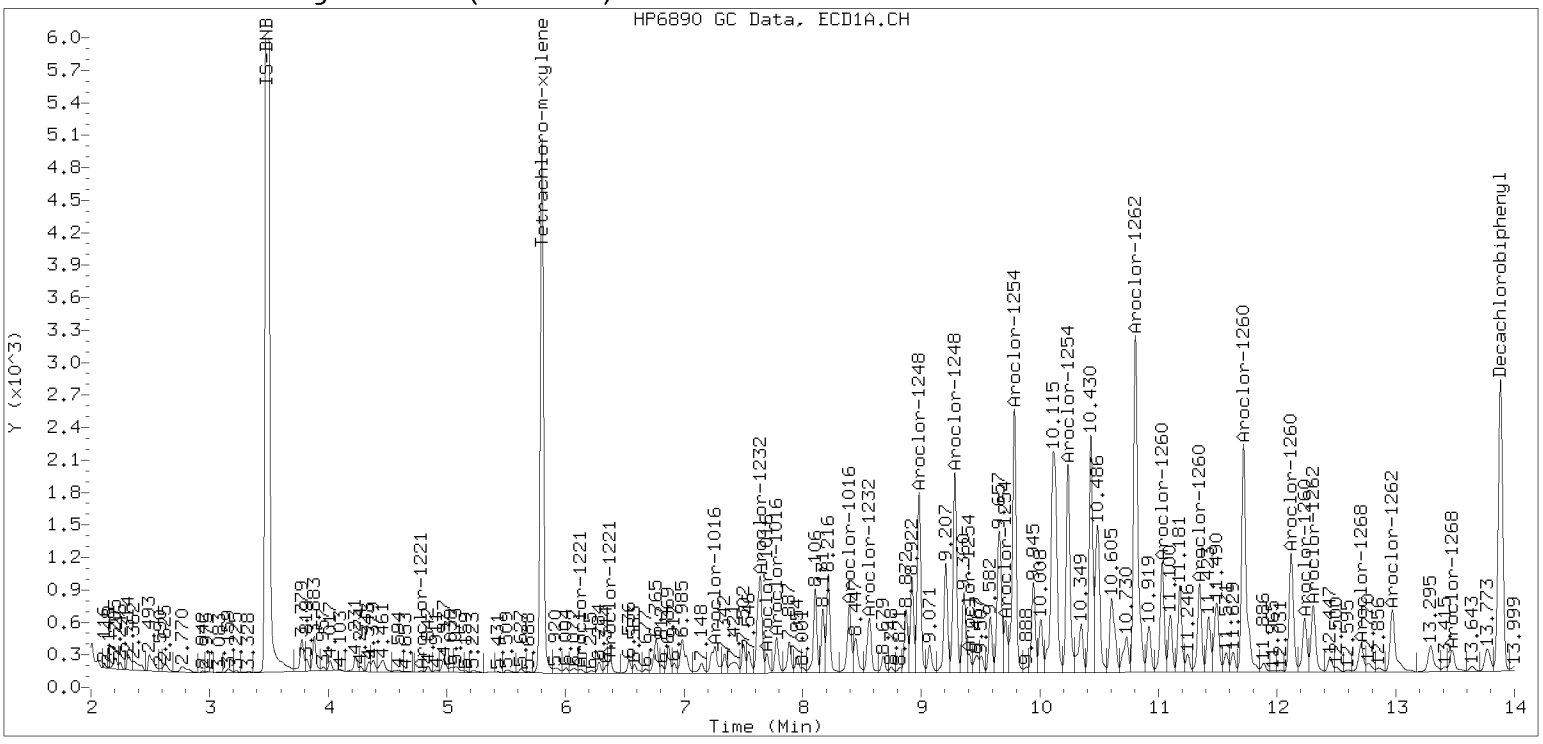
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230412.b/04122345ECD7.D Injection Date: 13-APR-2023 00:07

Manual Integration (After)



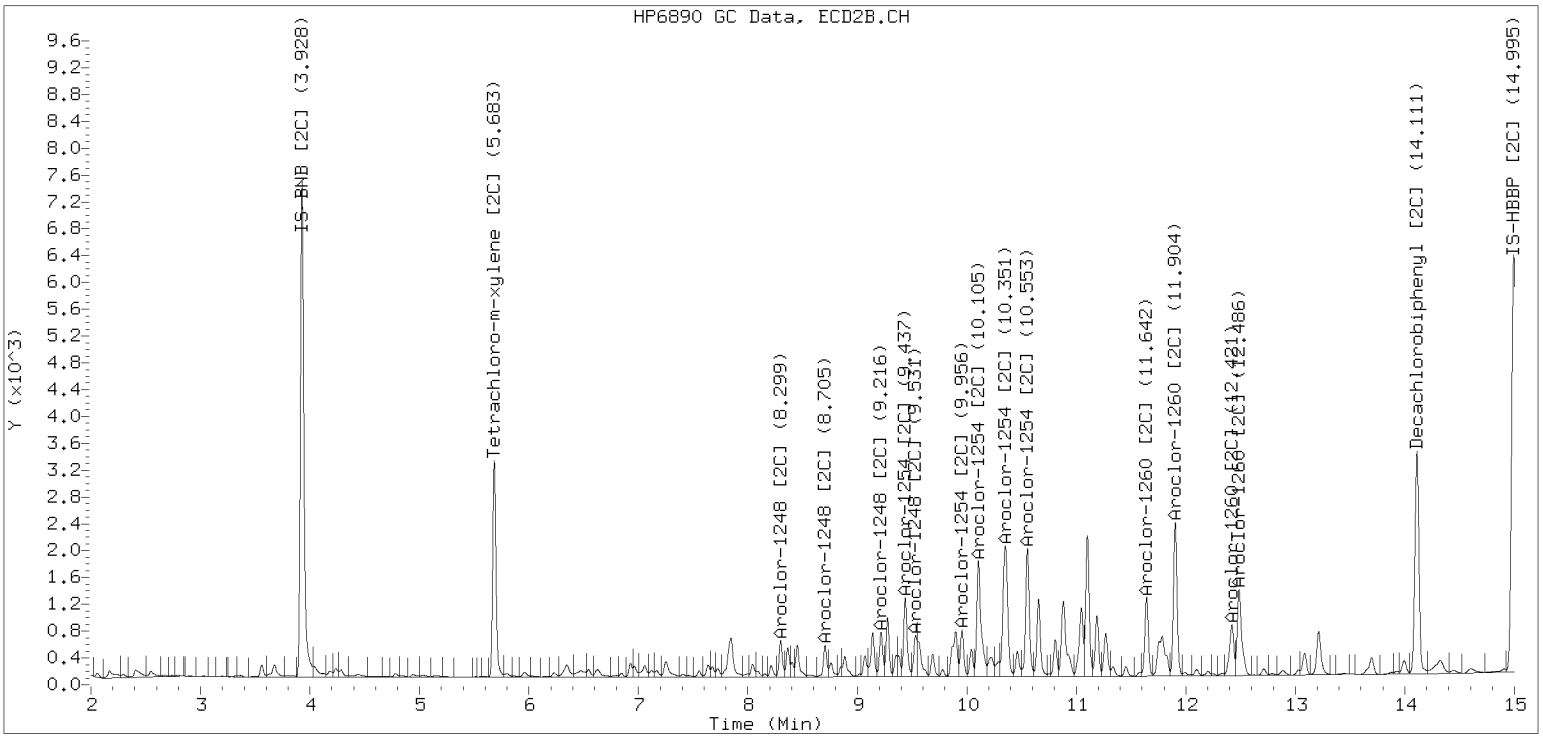
Processed Integration (Before)



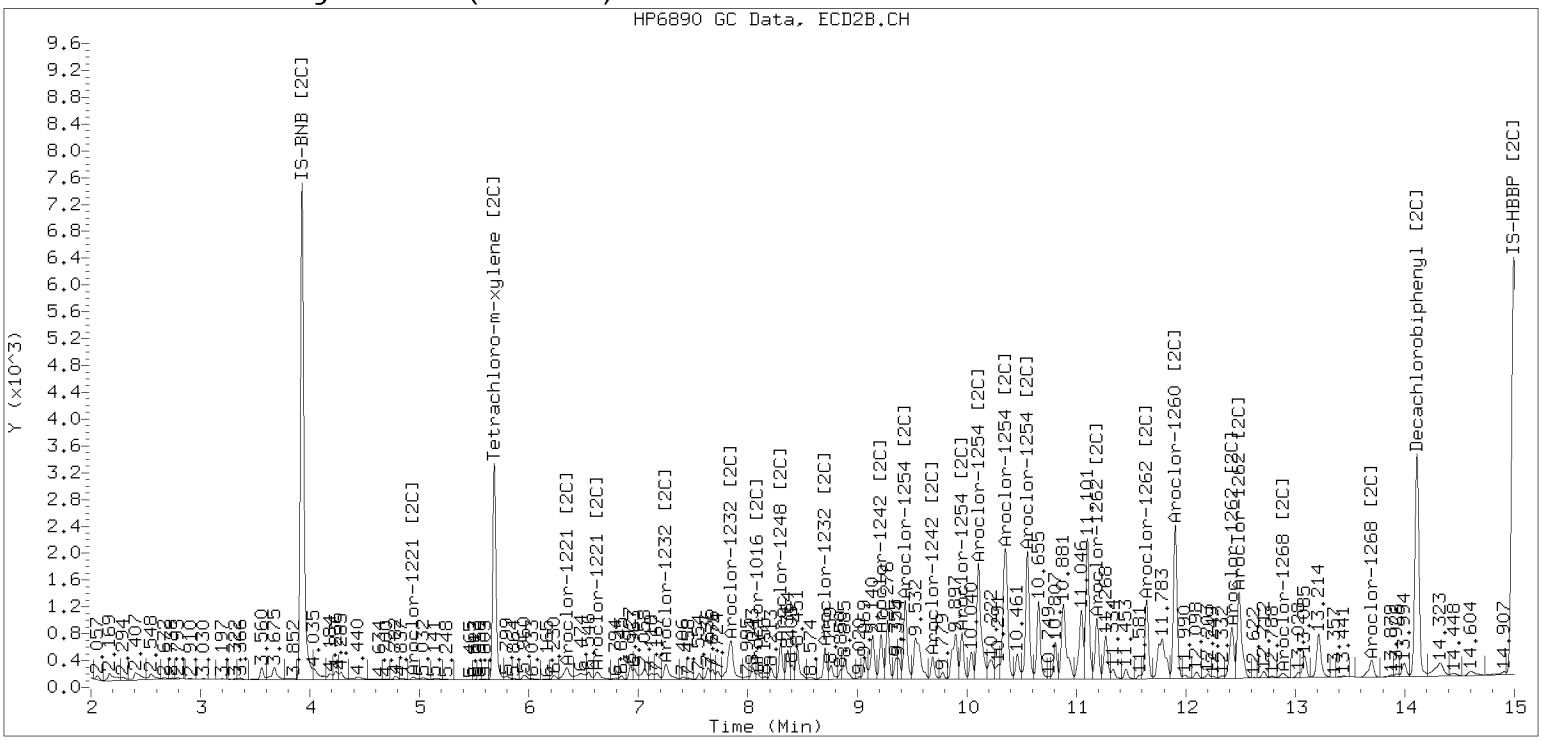
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230412.b/230412.b/04122345ECD7.D Injection Date: 13-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SC1810

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	23C0752
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23C0752-05 A	File ID:	04122346ECD7.D
Sampled:	03/30/23 11:00	Prepared:	04/03/23 14:00	Analyzed:	04/13/23 00:28
% Solids:	52.10	Preparation:	EPA 3546 (Microwave)	Initial/Final:	23.99 g Wet / 2.5 mL
Batch:	BLD0010	Sequence:	SLD0150	Calibration:	GB00069
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	2	1	32.2	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	48.2	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	53.2	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*8.0008*	*6.98*	*87.2*	*40 - 126*	
Tetrachlorometaxylene	*1*	*8.0008*	*4.77*	*59.6*	*44 - 120*	
Decachlorobiphenyl	*2*	*8.0008*	*6.62*	*82.8*	*40 - 126*	
Tetrachlorometaxylene	*2*	*8.0008*	*5.60*	*70.0*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230412.b/04122346ECD7.D
Data file 2: /230412.b/230412.b/04122346ECD7.D
Method: \\target\share\chem4\ecd7.i\230412.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23C0752-05
Client ID:
Injection Date: 13-APR-2023 00:28
Report Date: 04/13/2023 09:59
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.803	-0.008	192593	5.684	-0.008	135947	23.9	28.0	15.9	Tetrachloro-m-xylene
13.884	-0.015	132055	14.111	-0.012	167986	34.9	33.1	5.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	540812	-19.7
Hexabromobiphenyl	1429847	384413	-73.1 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	331121	5.0
Hexabromobiphenyl	513946	333213	-35.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.394	-0.025	37320	141.4	1	8.299	-0.017	27092	171.4
Aroclor-1248	2	8.563	-0.036	28138	83.9	2	8.705	-0.018	24370	149.1
Aroclor-1248	3	8.982	-0.019	84121	132.9	3	9.216	0.027	30430	161.8
Aroclor-1248	4	9.285	-0.025	91322	283.5	4	9.531	-0.086	32813	145.3
	Total Col1Ave (4 peaks):				160.4	Total Col2Ave (4 peaks):				156.9 RPD = 2
	Corrected Ave (3 peaks):				119.4	Corrected Ave (3 peaks):				152.0 RPD = 24
										160.77
Aroclor-1254	1	9.285	-0.030	91322	168.2	1	9.438	-0.027	60851	241.8
Aroclor-1254	2	9.360	-0.036	37321	152.8	2	9.956	-0.030	32238	159.2
Aroclor-1254	3	9.655	-0.032	70598	202.2	3	10.105	-0.039	110157	251.5
Aroclor-1254	4	9.785	-0.045	127729	188.1	4	10.351	-0.040	132617	310.5
Aroclor-1254	5	10.117	-0.095	159504	374.9	5	10.552	-0.031	99900	384.2
	Total Col1Ave (5 peaks):				217.2	Total Col2Ave (5 peaks):				269.4 RPD = 21
	Corrected Ave (4 peaks):				177.8	Corrected Ave (4 peaks):				240.8 RPD = 30
Aroclor-1260	1	11.031	-0.025	48717	352.3	1	11.641	-0.021	56529	288.5
Aroclor-1260	2	11.347	-0.026	38227	264.6	2	11.903	-0.028	108208	216.4
Aroclor-1260	3	11.717	-0.034	117063	305.5	3	12.421	-0.024	44410	334.7
Aroclor-1260	4	12.118	-0.040	58404	302.7	4	12.486	-0.028	75783	224.8
Aroclor-1260	5	12.233	-0.022	27019	325.3	NS	---			----
	Total Col1Ave (5 peaks):				310.1	Total Col2Ave (4 peaks):				266.1 RPD = 15
	Corrected Ave (4 peaks):				299.5	Corrected Ave (3 peaks):				243.2 RPD = 21
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.911 - 13.799) = 2407370 Col1 Total PCB = 0.4 ppm*

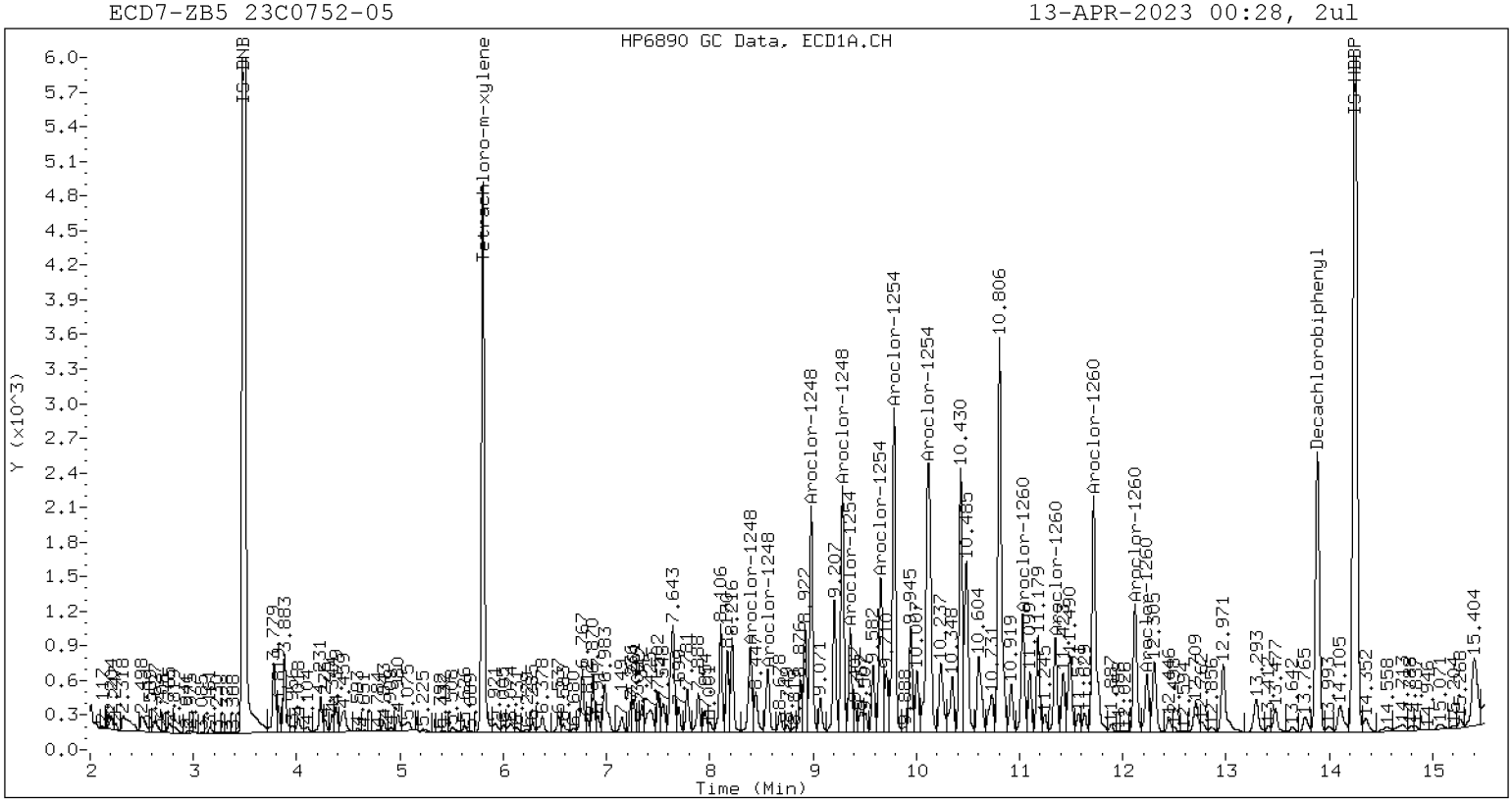
Total PCB Area Col2 (5.793 - 14.023) = 2044027 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

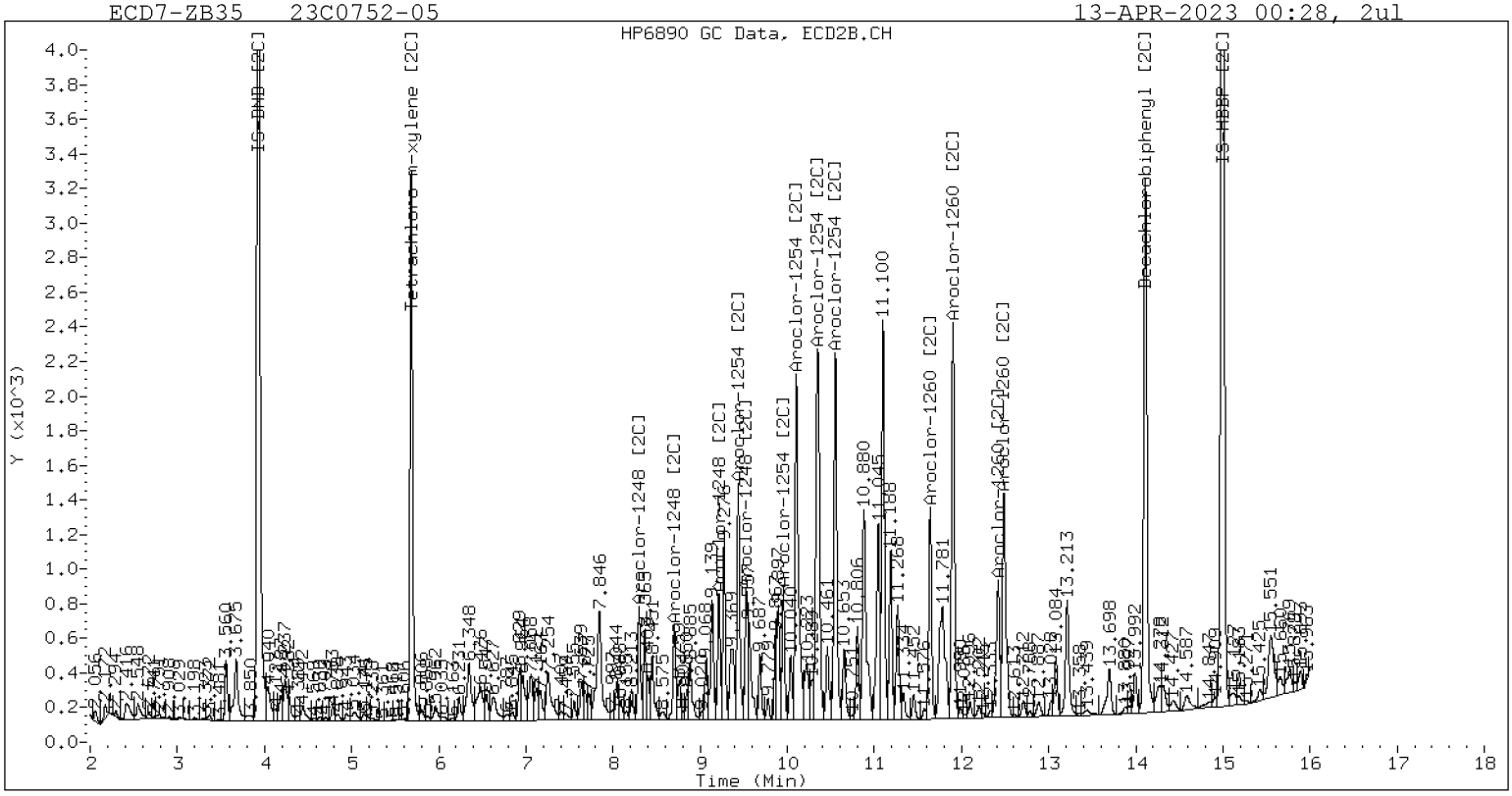
PCB Dual Column Chromatograms

ECD7-ZB5 23C0752-05 13-APR-2023 00:28, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23C0752-05 13-APR-2023 00:28, 2ul

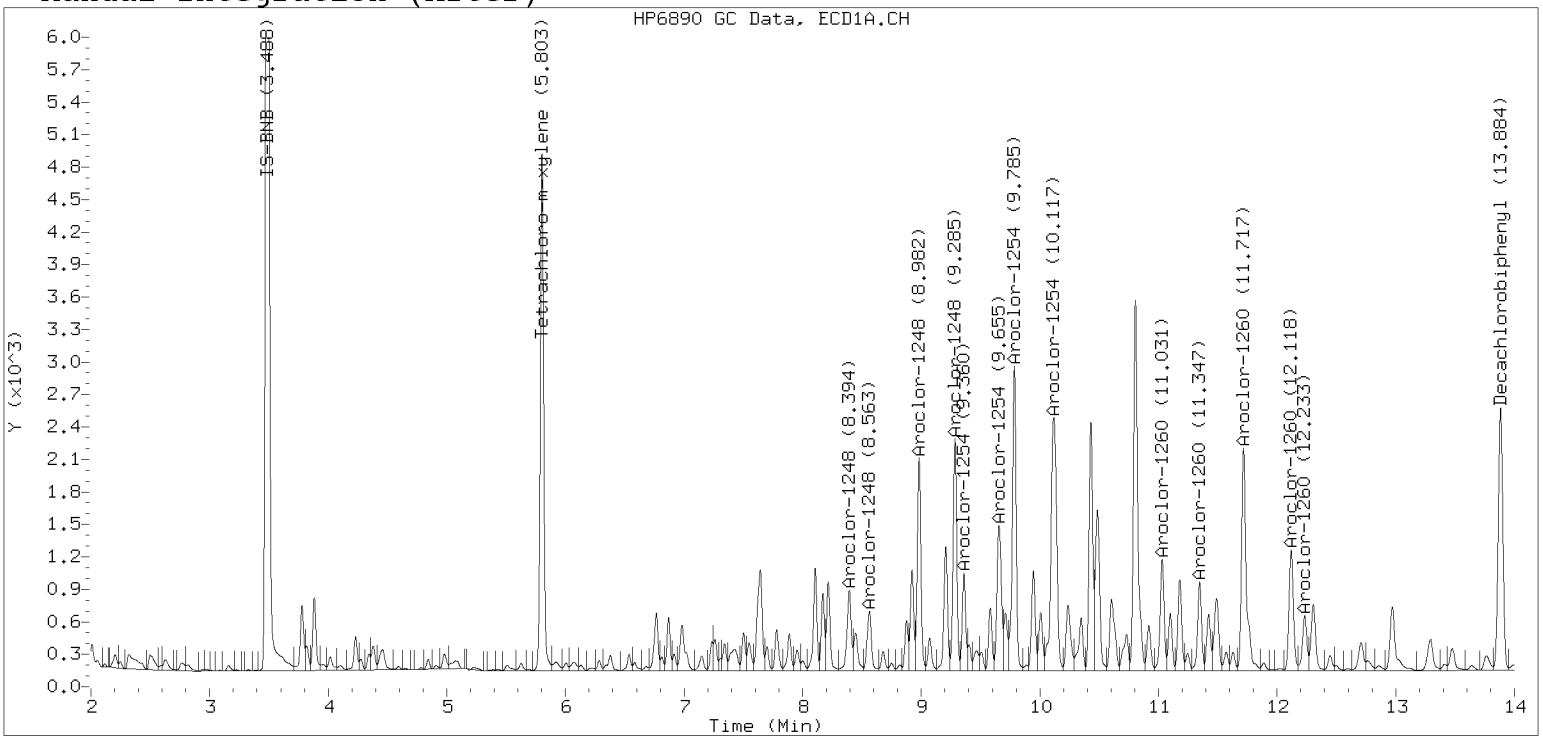


ZB-35 Manual Integration: YES

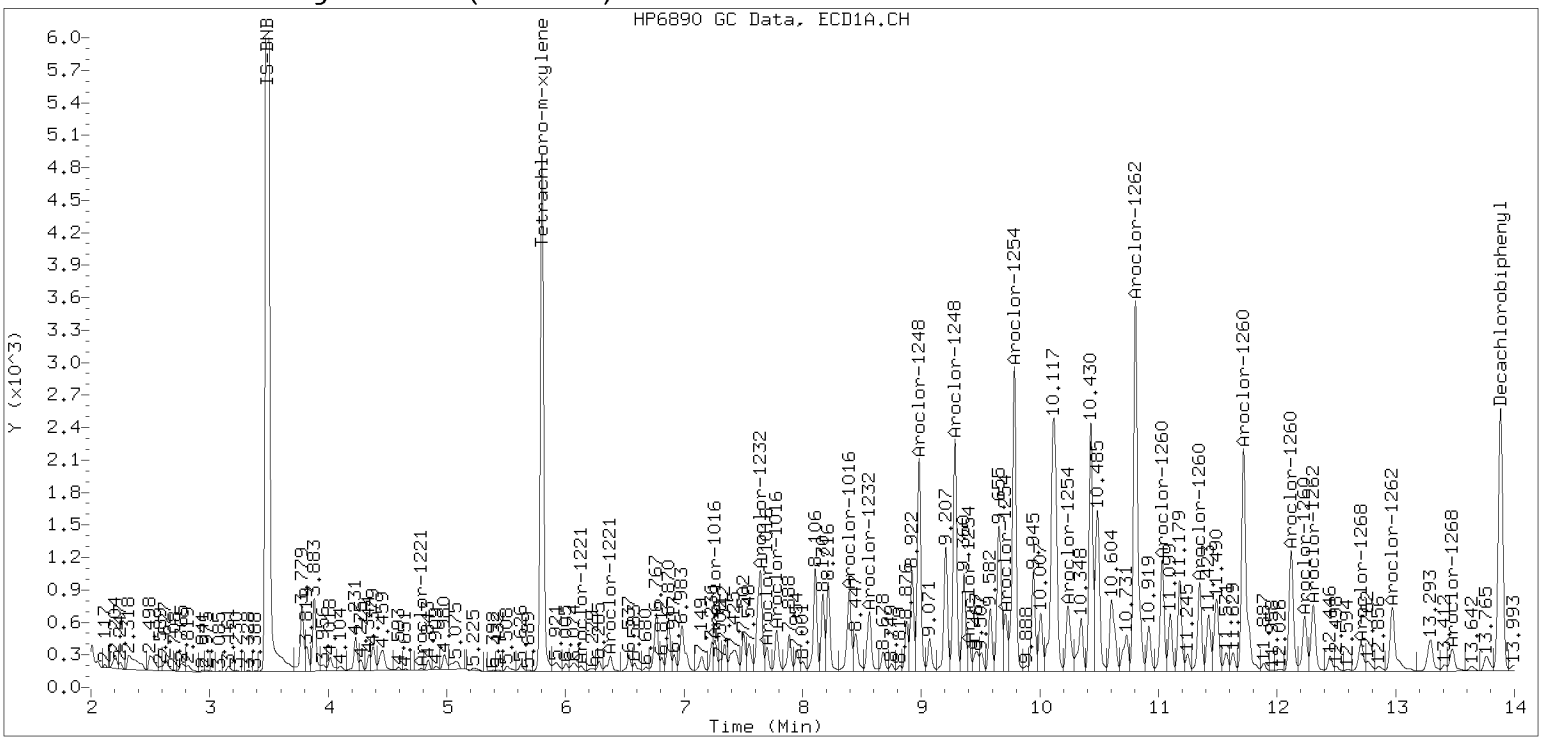
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230412.b/04122346ECD7.D Injection Date: 13-APR-2023 00:28

Manual Integration (After)



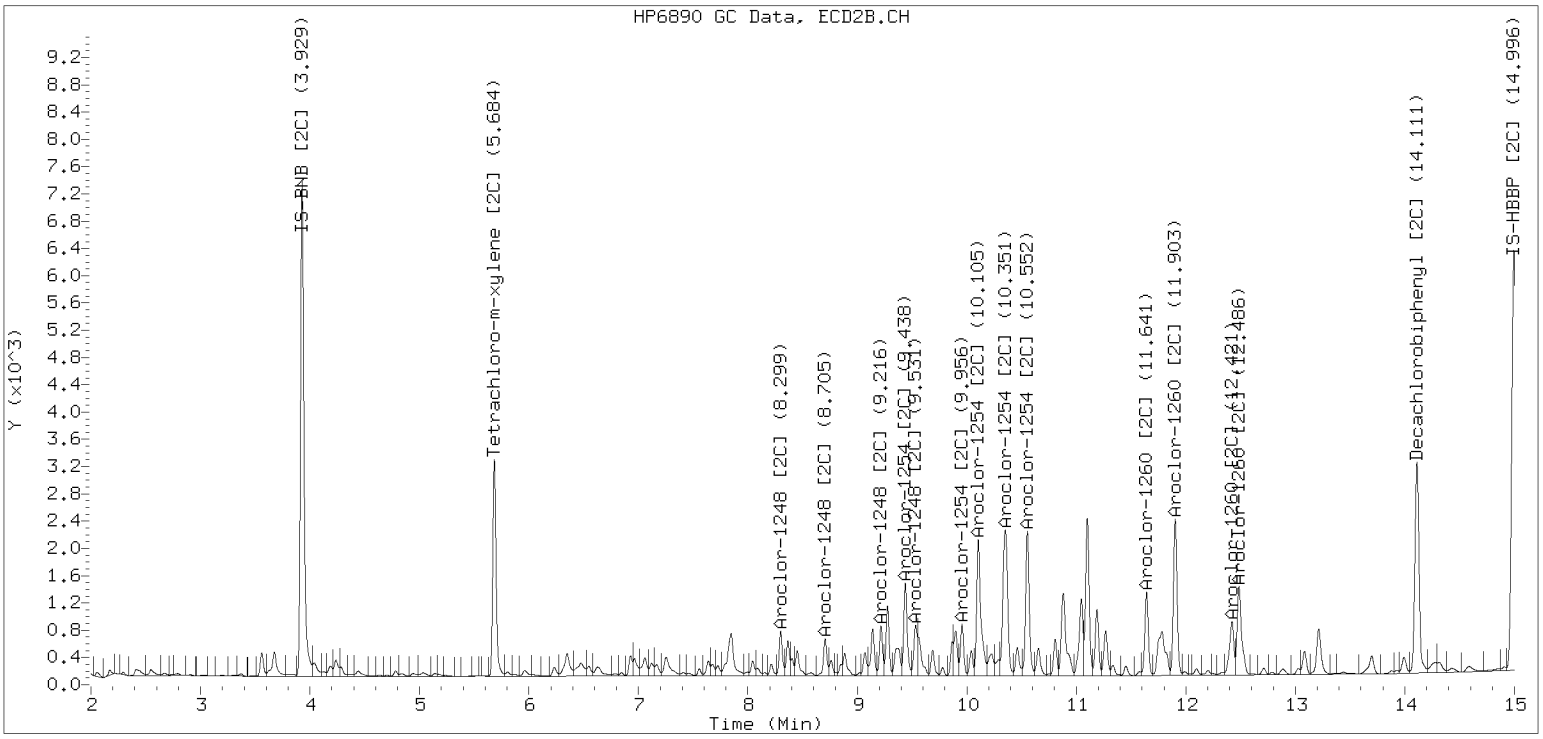
Processed Integration (Before)



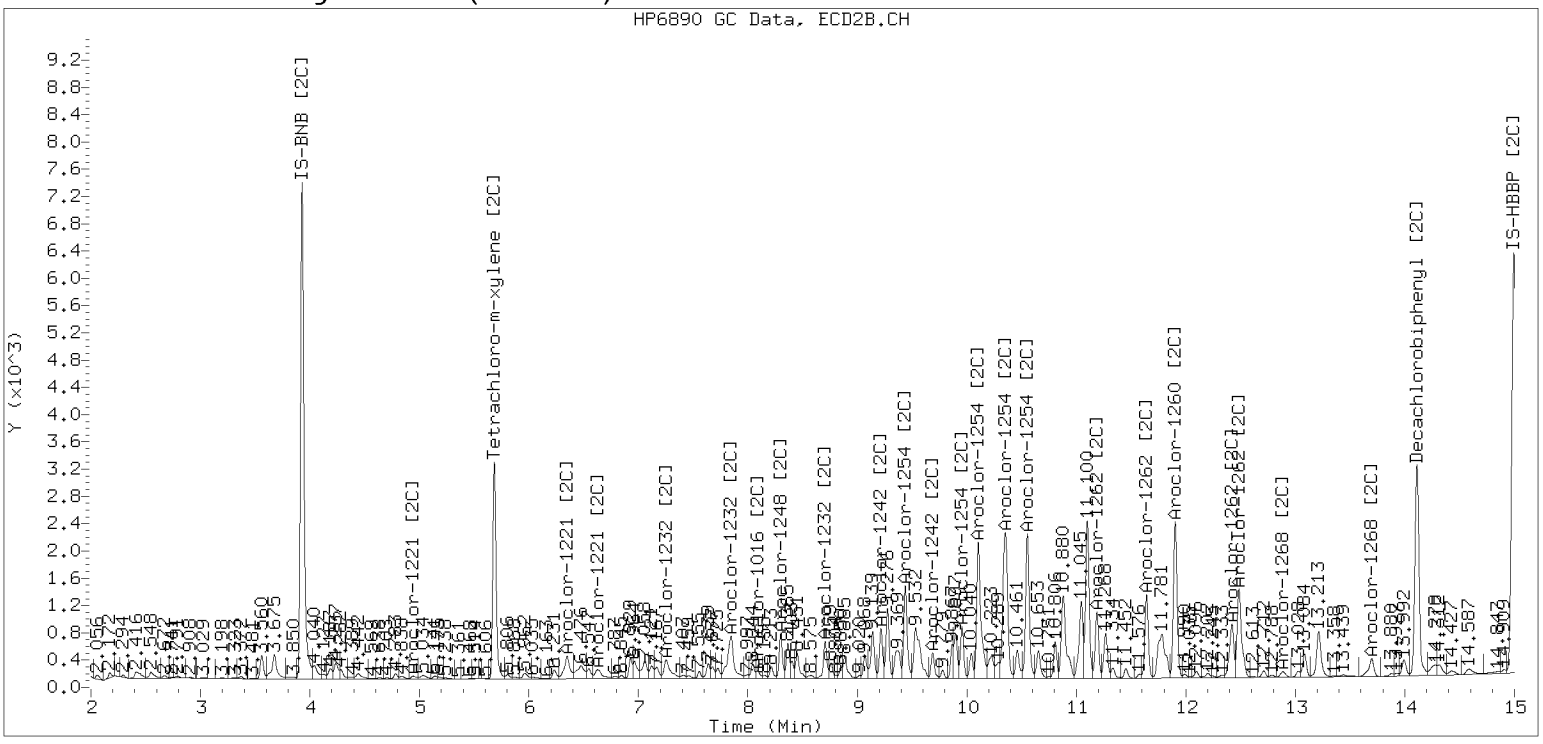
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230412.b/230412.b/04122346ECD7.D Injection Date: 13-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SS1809

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	23C0752
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23C0752-06 A	File ID:	04132304ECD7.D
Sampled:	03/30/23 14:30	Prepared:	04/03/23 14:00	Analyzed:	04/13/23 10:15
% Solids:	46.72	Preparation:	EPA 3546 (Microwave)	Initial/Final:	26.76 g Wet / 2.5 mL
Batch:	BLD0010	Sequence:	SLD0171	Calibration:	GB00069
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	50	200	78.0	200	U
11104-28-2	Aroclor 1221	1	50	200	78.0	200	U
11141-16-5	Aroclor 1232	1	50	200	78.0	200	U
53469-21-9	Aroclor 1242	1	50	200	78.0	200	U
12672-29-6	Aroclor 1248	1	50	200	78.0	200	U
11097-69-1	Aroclor 1254	2	50	1180	78.0	200	P1, D
11096-82-5	Aroclor 1260	2	50	2500	29.4	200	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9985*	*7.71*	*96.4*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9985*	*5.85*	*73.1*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9985*	*6.54*	*81.7*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9985*	*4.89*	*61.1*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230413.b/04132304ECD7.D
Data file 2: /230413.b/230413.b/04132304ECD7.D
Method: \\target\share\chem4\ecd7.i\230413.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23C0752-06
Client ID:
Injection Date: 13-APR-2023 10:15
Report Date: 04/13/2023 11:15
Matrix: NONE
Dilution Factor: ~~1.0~~ 50

SURROGATES

ZB5 Col RT	ZB5 Col Shift	ZB5 Col Response	ZB35 Col RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.808	0.002	5262	5.695	0.002	2703	0.6	0.5	17.8	Tetrachloro-m-xylene
13.893	-0.000	7321	14.120	-0.003	5364	0.8	0.7	16.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	602715	-10.5
Hexabromobiphenyl	1429847	964421	-32.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	376702	19.5
Hexabromobiphenyl	513946	538630	4.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	9.308	0.009	24807	41.0	1	9.459	-0.003	13835	48.3
Aroclor-1254	2	9.381	0.004	4923	18.1	2	9.980	-0.003	2981	12.9
Aroclor-1254	3	9.679	0.011	5726	14.7	3	10.151	0.010	43209	86.7
Aroclor-1254	4	9.814	0.007	16177	21.4	4	10.376	-0.010	63440	130.6
Aroclor-1254	5	10.124	-0.052	109014	229.9	5	10.574	-0.007	92374	312.3
	Total Col1Ave (5 peaks):				65.0	Total Col2Ave (5 peaks):				118.2 RPD = 58*
	Corrected Ave (4 peaks):				23.8	Corrected Ave (4 peaks):				69.6 RPD = 98*
Aroclor-1260	1	11.048	0.004	115125	331.8	1	11.657	-0.004	76109	240.3
Aroclor-1260	2	11.364	0.003	107547	296.7	2	11.923	-0.008	206527	255.5
Aroclor-1260	3	11.738	0.004	292285	304.0	3	12.439	-0.005	55910	260.6
Aroclor-1260	4	12.143	0.004	137429	283.9	4	12.504	-0.009	132438	243.1
Aroclor-1260	5	12.247	0.003	65811	315.8	NS	---			----
	Total Col1Ave (5 peaks):				306.4	Total Col2Ave (4 peaks):				249.9 RPD = 20
	Corrected Ave (4 peaks):				300.1	Corrected Ave (3 peaks):				246.3 RPD = 20
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.906 - 13.793) = 2003435 Col1 Total PCB = 0.3 ppm*

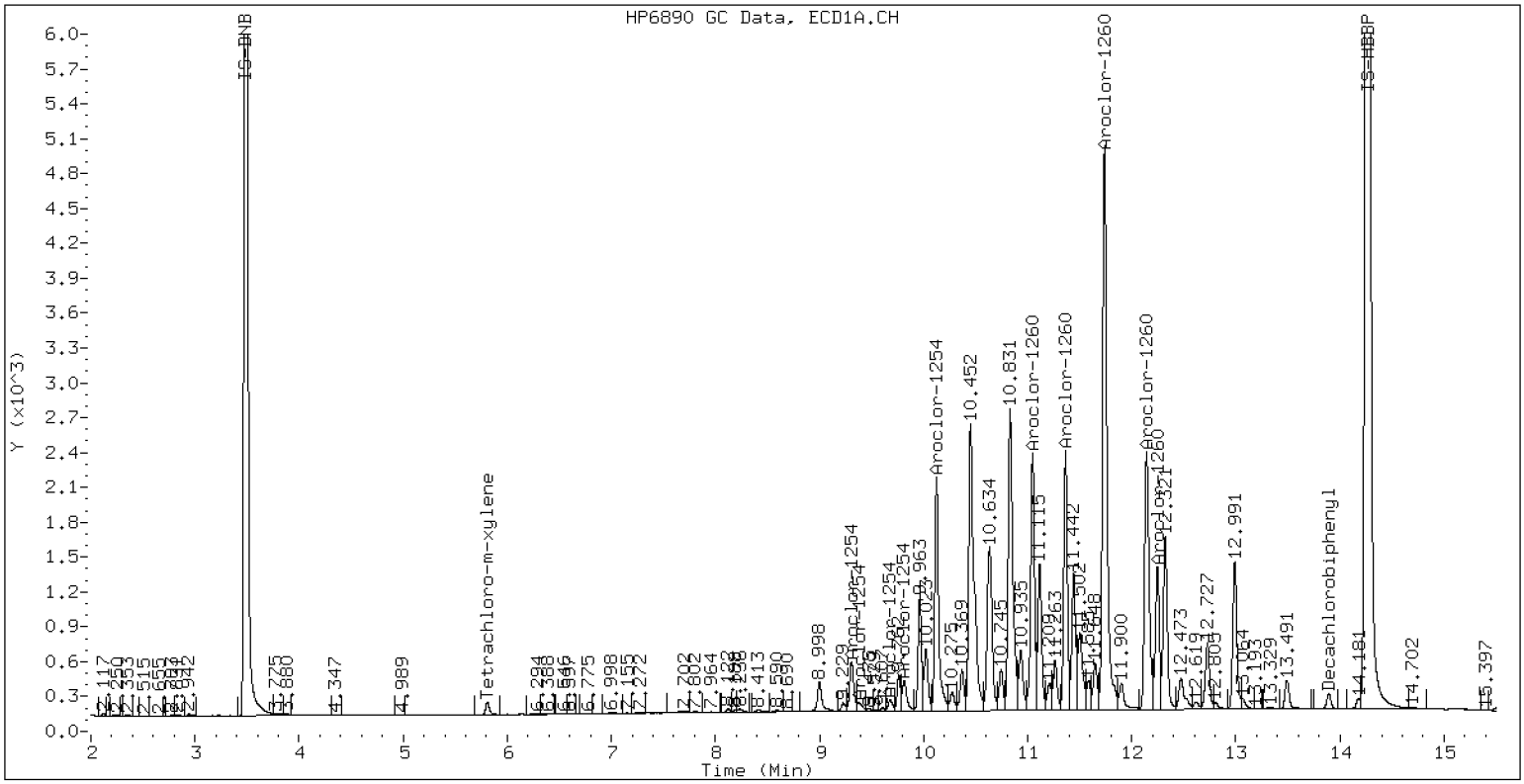
Total PCB Area Col2 (5.794 - 14.023) = 1273108 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

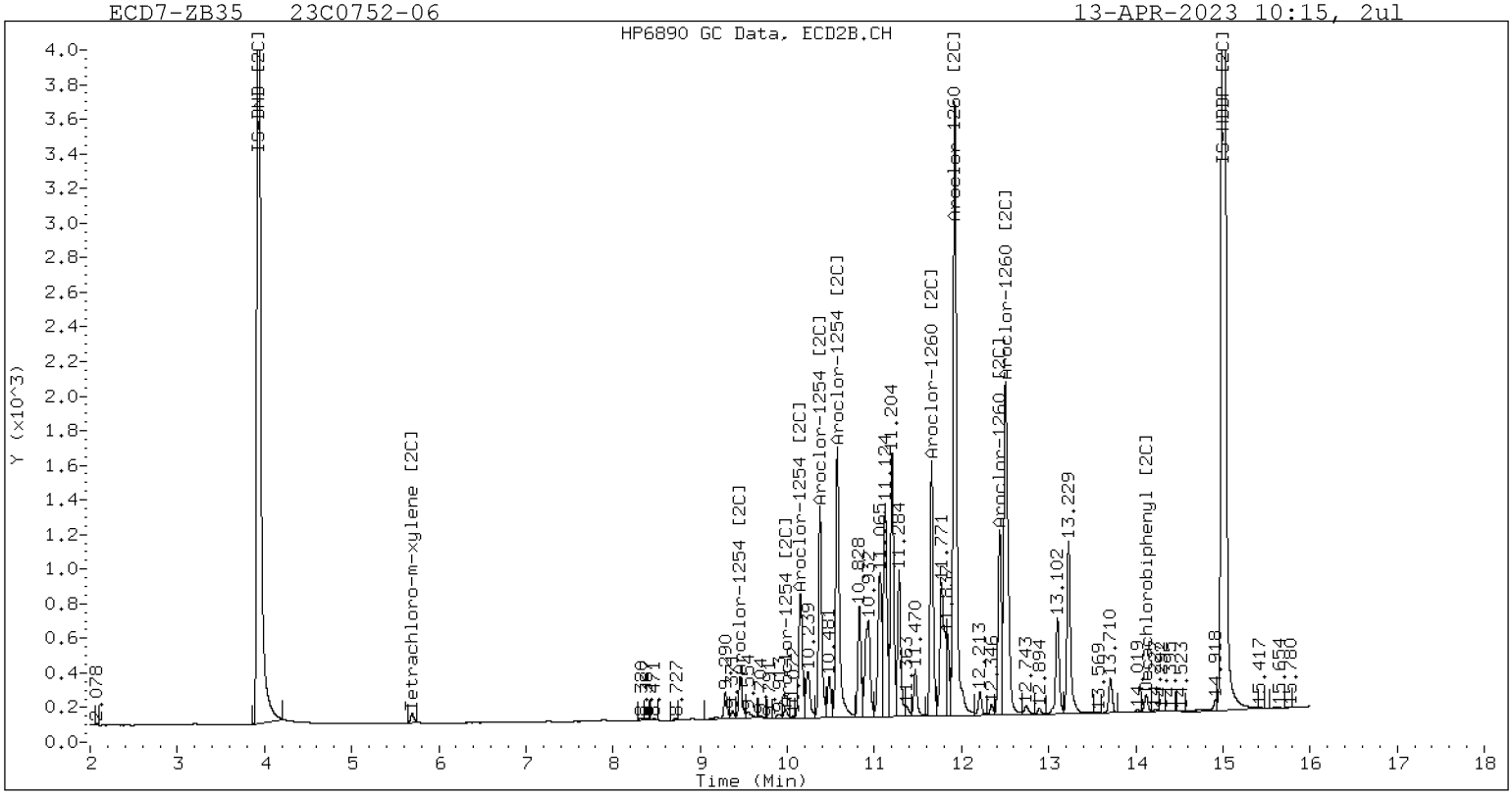
PCB Dual Column Chromatograms

ECD7-ZB5 23C0752-06 13-APR-2023 10:15, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 23C0752-06 13-APR-2023 10:15, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SC1809

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	23C0752
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23C0752-07 A	File ID:	04122350ECD7.D
Sampled:	03/30/23 14:55	Prepared:	04/03/23 14:00	Analyzed:	04/13/23 01:50
% Solids:	51.31	Preparation:	EPA 3546 (Microwave)	Initial/Final:	24.4 g Wet / 2.5 mL
Batch:	BLD0010	Sequence:	SLD0150	Calibration:	GB00069
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	2	1	31.2	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	45.8	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	51.8	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9875*	*6.93*	*86.8*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9875*	*4.74*	*59.4*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9875*	*6.53*	*81.7*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9875*	*5.66*	*70.8*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230412.b/04122350ECD7.D
Data file 2: /230412.b/230412.b/04122350ECD7.D
Method: \\target\share\chem4\ecd7.i\230412.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23C0752-07
Client ID:
Injection Date: 13-APR-2023 01:50
Report Date: 04/13/2023 09:59
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.803	-0.008	193715	5.684	-0.008	137201	23.7	28.3	17.6	Tetrachloro-m-xylene
13.884	-0.015	134309	14.111	-0.013	168579	34.7	32.7	6.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	546394	-18.9
Hexabromobiphenyl	1429847	392921	-72.5 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	330126	4.7
Hexabromobiphenyl	513946	338732	-34.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.395	-0.024	32977	123.7	1	8.299	-0.016	27011	171.4
Aroclor-1248	2	8.564	-0.035	27039	79.8	2	8.705	-0.018	23540	144.4
Aroclor-1248	3	8.982	-0.018	78135	122.2	3	9.216	0.028	28795	153.5
Aroclor-1248	4	9.285	-0.025	85796	263.6	4	9.531	-0.086	31505	139.9
		Total Col1Ave (4 peaks):			147.3		Total Col2Ave (4 peaks):			152.3 RPD = 3
		Corrected Ave (3 peaks):			108.6		Corrected Ave (3 peaks):			146.0 RPD = 29
										156.43
Aroclor-1254	1	9.285	-0.030	85796	156.4	1	9.438	-0.027	57264	228.2
Aroclor-1254	2	9.361	-0.035	35008	141.9	2	9.956	-0.030	31834	157.7
Aroclor-1254	3	9.657	-0.031	71277	202.1	3	10.105	-0.039	102548	234.8
Aroclor-1254	4	9.785	-0.045	121299	176.9	4	10.351	-0.040	126287	296.6
Aroclor-1254	5	10.115	-0.097	154104	358.5	5	10.553	-0.031	99989	305.7
		Total Col1Ave (5 peaks):			207.1		Total Col2Ave (5 peaks):			260.6 RPD = 23
		Corrected Ave (4 peaks):			169.3		Corrected Ave (4 peaks):			229.3 RPD = 30
Aroclor-1260	1	11.032	-0.024	47817	338.3	1	11.641	-0.022	53074	266.5
Aroclor-1260	2	11.347	-0.027	36466	246.9	2	11.903	-0.028	102071	200.8
Aroclor-1260	3	11.717	-0.034	116660	297.8	3	12.420	-0.025	48138	356.9
Aroclor-1260	4	12.118	-0.041	56065	284.2	4	12.486	-0.029	73307	213.9
Aroclor-1260	5	12.232	-0.023	27630	325.4	NS	---			----
		Total Col1Ave (5 peaks):			298.5		Total Col2Ave (4 peaks):			259.5 RPD = 14
		Corrected Ave (4 peaks):			288.6		Corrected Ave (3 peaks):			227.1 RPD = 24
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.911 - 13.799) = 2641830 Col1 Total PCB = 0.4 ppm*

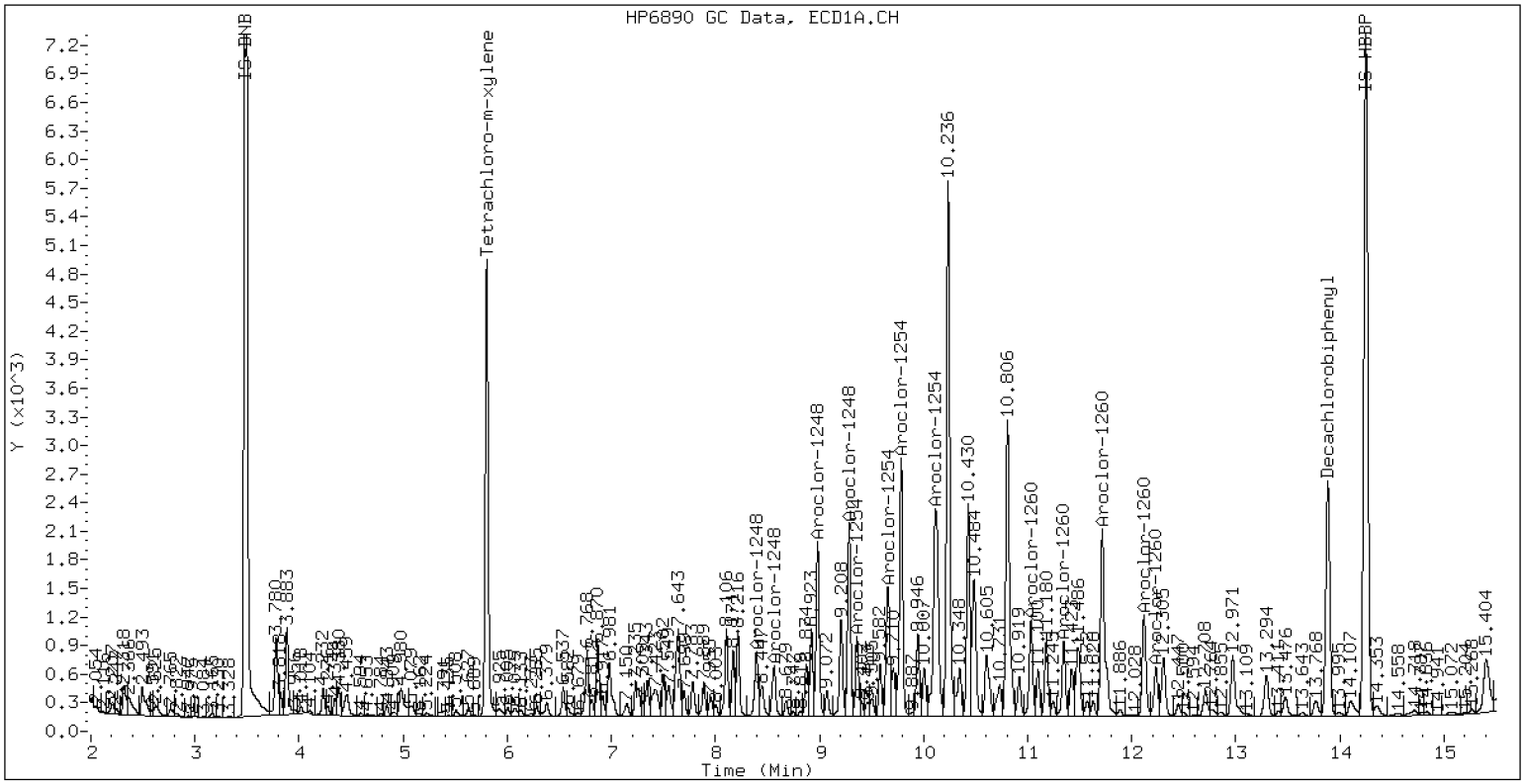
Total PCB Area Col2 (5.793 - 14.023) = 2214158 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

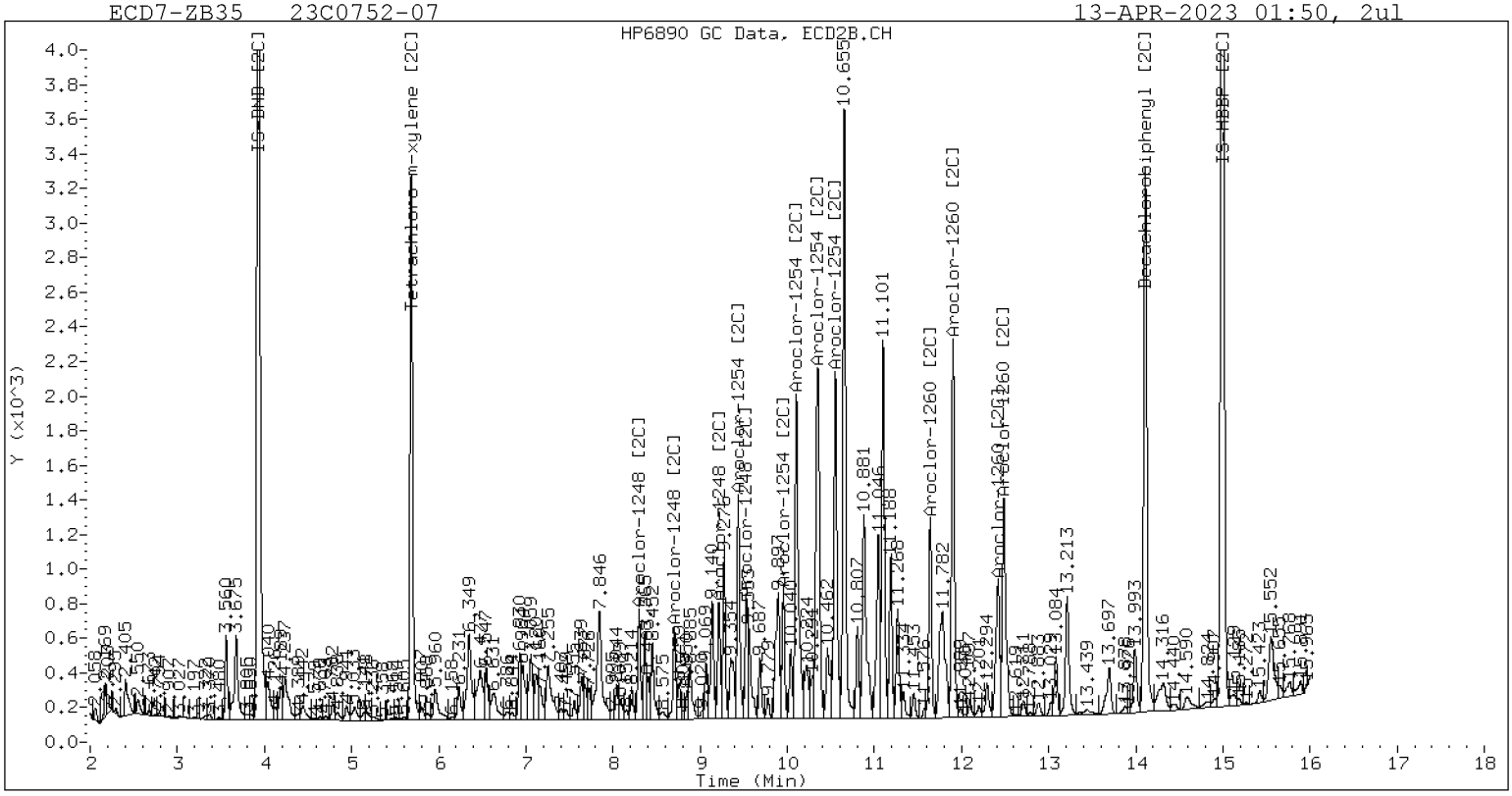
PCB Dual Column Chromatograms

ECD7-ZB5 23C0752-07 13-APR-2023 01:50, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23C0752-07 13-APR-2023 01:50, 2ul

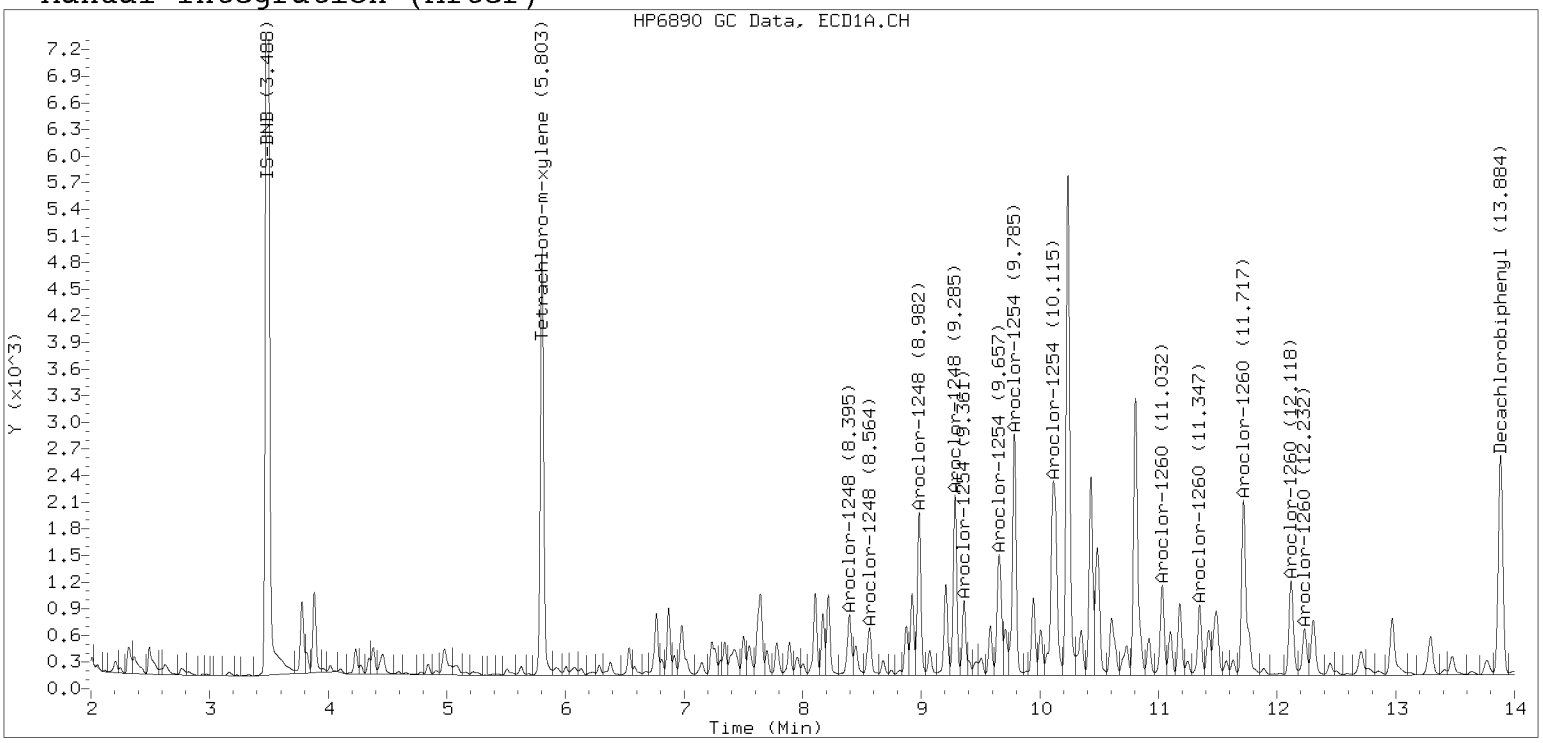


ZB-35 Manual Integration: YES

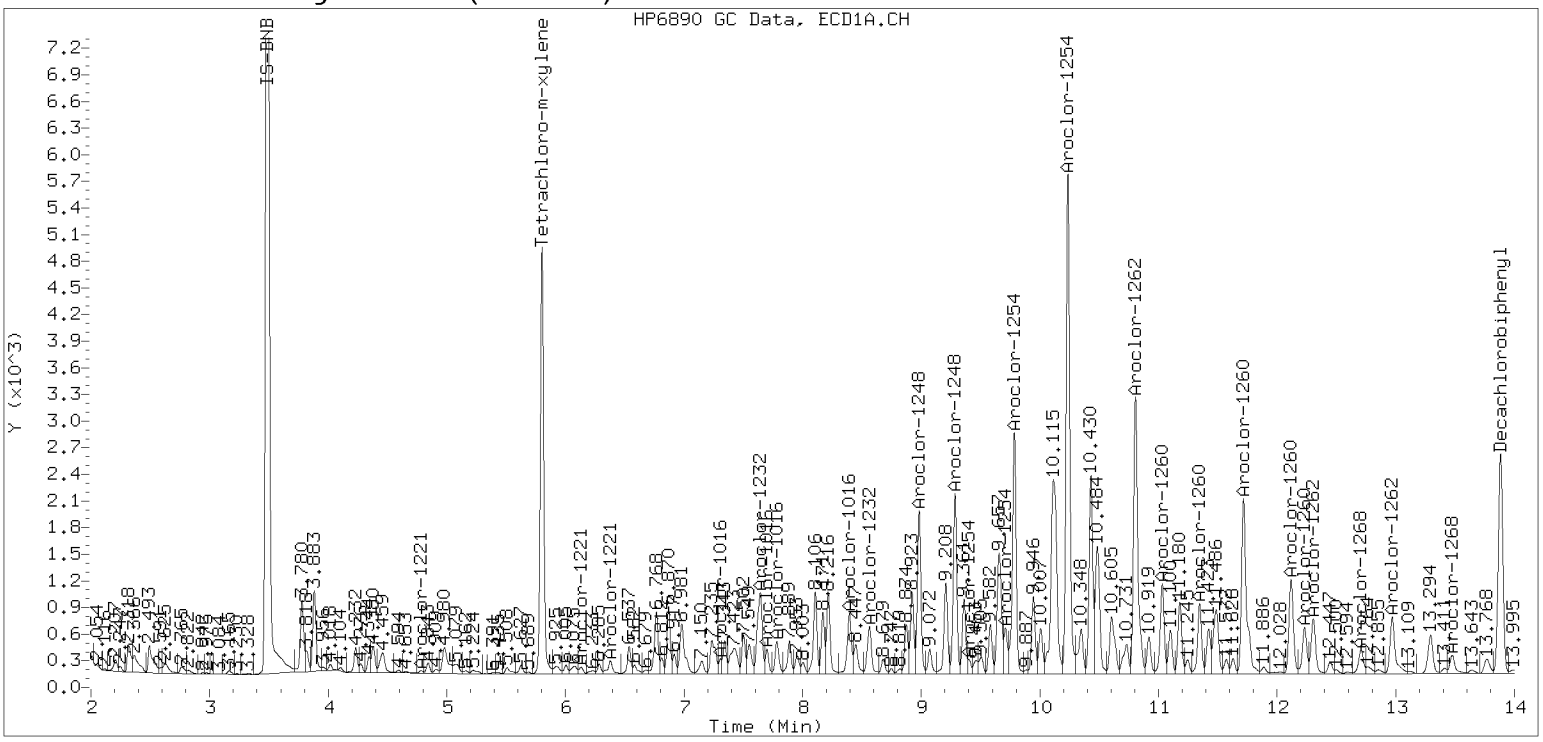
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230412.b/04122350ECD7.D Injection Date: 13-APR-2023 01:50

Manual Integration (After)



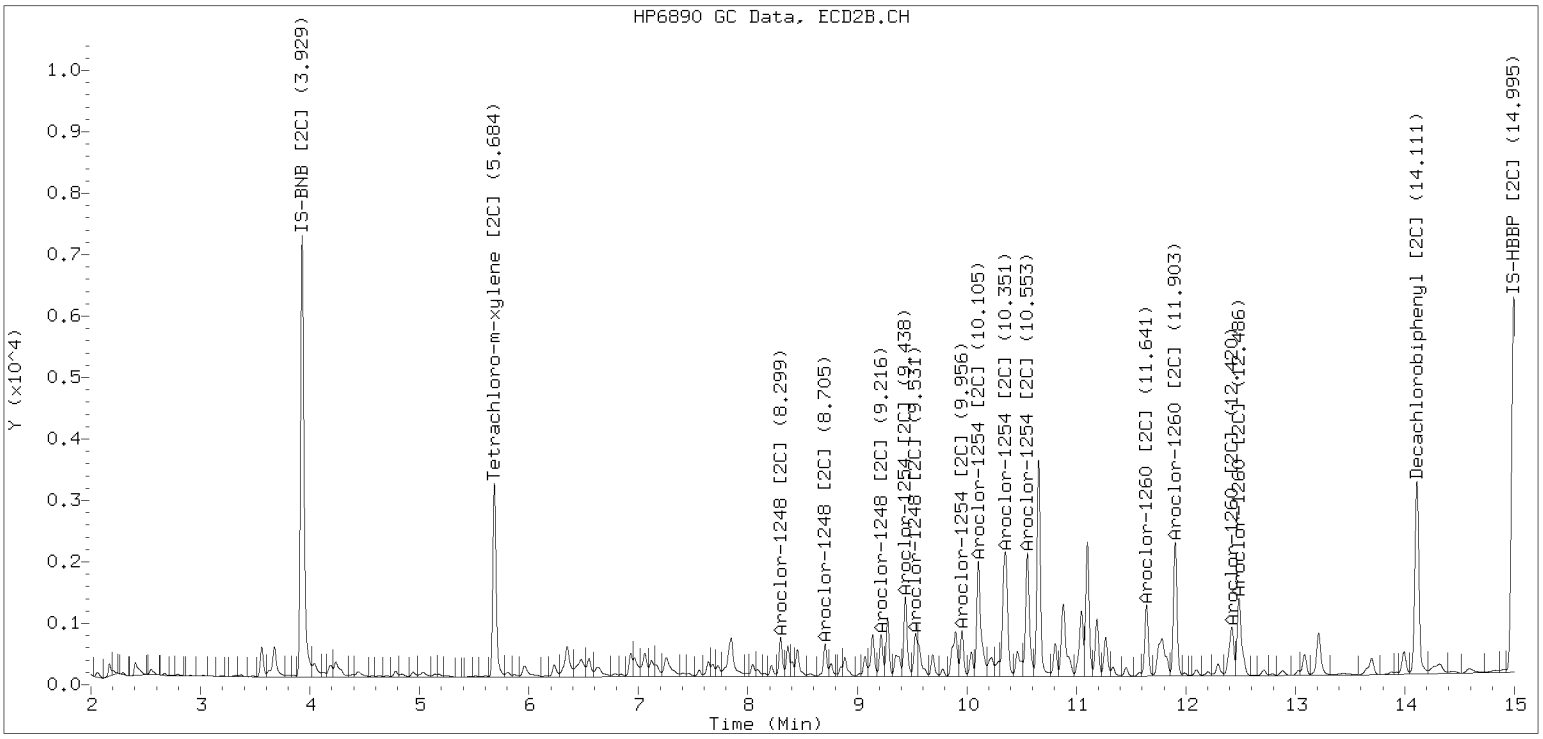
Processed Integration (Before)



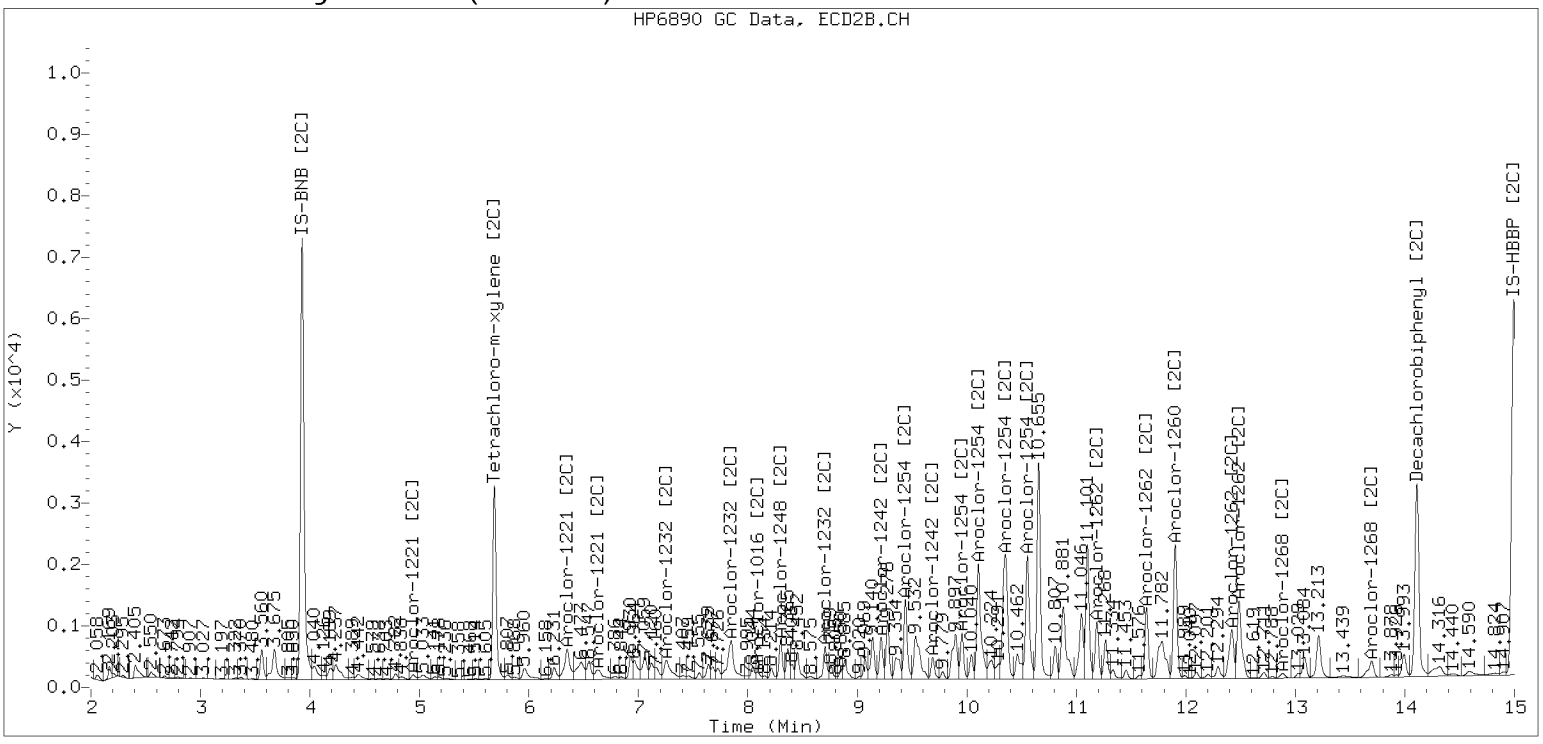
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230412.b/230412.b/04122350ECD7.D Injection Date: 13-APR-2023

Manual Integration (After)



Processed Integration (Before)



PREPARATION BATCH SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 23C0752

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

Batch: BLD0010 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1026	23C0752-01	04122342ECD7.D	04/03/23 14:00	
LDW23-SS1125	23C0752-02	04122343ECD7.D	04/03/23 14:00	
LDW23-SS1132	23C0752-03	04122344ECD7.D	04/03/23 14:00	
LDW23-SS1810	23C0752-04	04122345ECD7.D	04/03/23 14:00	
LDW23-SC1810	23C0752-05	04122346ECD7.D	04/03/23 14:00	
LDW23-SS1809	23C0752-06	04132304ECD7.D	04/03/23 14:00	
LDW23-SC1809	23C0752-07	04122350ECD7.D	04/03/23 14:00	
Blank	BLD0010-BLK1	04122338ECD7.D	04/03/23 14:00	
LCS	BLD0010-BS1	04122339ECD7.D	04/03/23 14:00	
LCS Dup	BLD0010-BSD1	04122340ECD7.D	04/03/23 14:00	
LDW23-SC1810	BLD0010-MS1	04122347ECD7.D	04/03/23 14:00	
LDW23-SC1810	BLD0010-MSD1	04122348ECD7.D	04/03/23 14:00	
Reference	BLD0010-SRM1	04122341ECD7.D	04/03/23 14:00	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLD0010

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

Matrix: Solid **Date Prepared:** 04/03/23 **Balance ID:** B1464614 **Set Up By:** CRD 4/3/23

WO Comments

23C0752: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

The following standards may be missing from this batch!

Designator	Description
QLS 5	QLS Spike

Analysis: 8082A PCB Solid 4

Lab Number & Container	% Solids	Initial (g) Target Dry: 12.5 (Wet) Actual	(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL) 1 2 3	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
23C0752-01 A	50.2	(24.88) 24.88	5mL	5mL	2mL	2.5	1.0	
23C0752-02 A	49.7	(25.17) 25.17	5mL	5mL	2mL	2.5	1.0	
23C0752-03 A	50.7	(24.67) 24.67	5mL	5mL	2mL	2.5	1.0	
23C0752-04 A	52.7	(23.72) 23.72	5mL	5mL	2mL	2.5	1.0	
23C0752-05 A	52.1	(23.99) 23.99	5mL	5mL	2mL	2.5	1.0	
23C0752-06 A	46.7	(26.76) 26.76	5mL	5mL	2mL	2.5	1.0	
23C0752-07 A	51.3	(24.36) 24.40	5mL	5mL	2mL	2.5	1.0	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 12.5 (Wet) Actual	(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL) 1 2 3	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BLD0010-BLK1	100.0	(12.50) 12.50	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BLD0010-BS1	100.0	(12.50) 12.50	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BLD0010-BSD1	100.0	(12.50) 12.50	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BLD0010-MS1	52.1	(23.99) 23.99	5mL	5mL	2mL	2.5	1.0	Use 23C0752-05
BLD0010-MSD1	52.1	(23.99) 23.99	5mL	5mL	2mL	2.5	1.0	Use 23C0752-05
BLD0010-SRM1	100.0	~~(12.50)~~ (2.50) 2.50	5mL	5mL	2mL	2.5	1.0	Use K003527 ~~K003625~~ CRD 4/5/23

+1g DI WATER

K003625

04/03/23
Client ID Verified By Date

4/12/23
Preparation Reviewed By Date

04/03/2023 14:00
Extraction Date and Time

Printed: 4/3/2023 9:21:29AM

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLD0010

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

23C0752: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Prep Steps

Microwave
1 (2) 3
Φ4/Φ4/23
CT Analyst/Date

KD
100°C
Hexane Exchange
(2 X 20 mL)
1 2 3 4 (5) 6
SA 4/14/23
Analyst/Date

TurboVap
Pre Cleanups
1 2 3 (4) 5
SH 4/14/23
Analyst/Date

TurboVap
Post Cleanups
1 2 (3) 4 5
ZH 4/12/23
Analyst/Date

Vialing
ZH 4/12/23
Analyst/Date

Reagents Used

Station/Reagent	Standard ID
Microwave Analyst: CT Date: Φ4/Φ4/23	
Neutral Glass Wool	LΦΦ4917
1:1 Hexane/Acetone	LΦΦ2247
Hexane	LΦΦ1957
Anhydrous Sodium Sulfate	LΦΦ2971
KD Analyst: SA Date: 4/14/23	
Anhydrous Sodium Sulfate	N/A
Hexane	LΦΦ1957
Vialing Analyst: ZH Date: 4/12/23	
Hexane	LΦΦ1957
Concentrated Sulfuric Acid	LΦΦ1Φ33
Silica Gel (SPE) Darts	LΦΦ3130
Sodium Sulfite	LΦΦ2437
Tetrabutylammonium hydrogensulfate (TBAS)	LΦΦ2438

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate 2µg/mL	N L000773 Exp Date: 7/21/2023	50µL	CT	✓
Spike 20µg/mL	1 L001587 Exp Date: 8/13/2023	63µL	CT	✓

MANUALLY ENTER EXPIRATION DATES!

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

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

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLD0010

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

23C0752: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Prep Instructions	
SPECIAL INSTRUCTIONS: 1. Weigh soil/sed into beakers-lightly dry with sodium sulfate. 2. Transfer to microwave vessel(s). Note: (do not fill vessels more than 2/3rd full. Some samples may require two vessels). 3. Add 1:1 Hexane/Acetone until the solvent layer is 3 inches above the soil layer after homogenization. 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-Re-homogenize while hot then cool vessels in R-05 15 minutes. Re-homogenize while cool. 7. Decant 1:1 Hex/Ace into Erlenmeyer flask with sodium sulfate in bottom and funnel with neutral glasswool plug. 8. Re-homogenize and rinse with 1:1 Hexane/Acetone. 9. Let cool and decant solvent then empty the soil into the funnel and rinse with Hexane. 10. KD on 100° bath. 11. Exchange (2 X with 20mL) Hexane. 12. TurboVap. 13. Clean-ups. 14. TurboVap. 15. Vial with Hexane. A. Need Total Solids Y (N) B. Archive/Freeze (Y) N	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

Extraction Parameter: PUB Extraction Batch ~~BLC0852~~ BLD0010

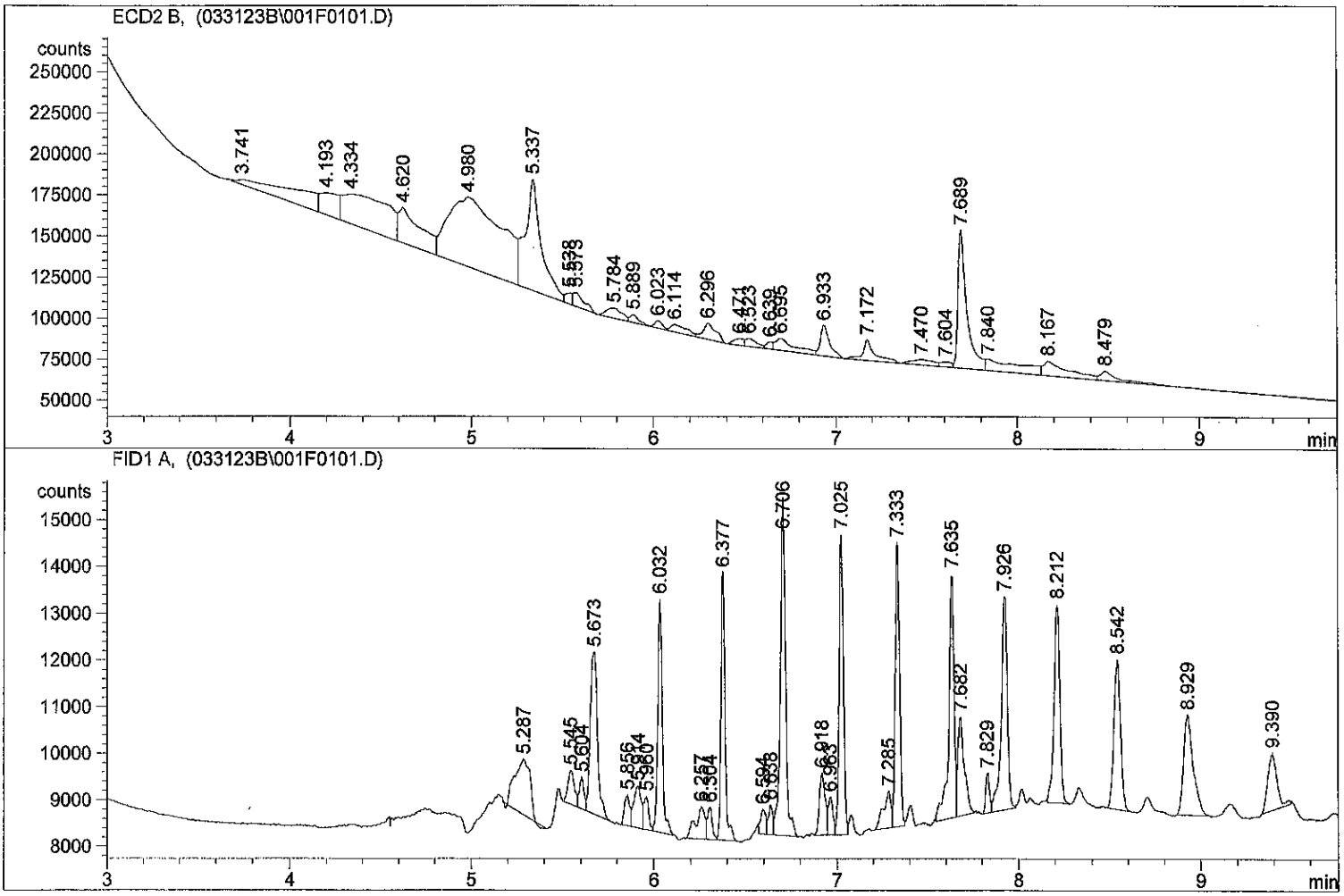
Total Solids Batch: ~~N/A~~ BLC0852 Work Order(s): 23C0752

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
[X] No Anomalies (standard soil/wet sediment/sand/gravel)= 01-07	CR 3/31/23
[X] Standing Water Decanted (Not shared)= 01-07	CR 3/31/23
[ ] Standing Water Homogenized (Shared samples)=	
[ ] Clay/Clumps (Difficult to homogenize)=	
[ ] Rocks (%+size)?	
[ ] Organics (Leaves/sticks/grass)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Received in 32oz jar(s)=Homogenized in Pyrex dish=	
[X] Previously Frozen = 01-07	CR 3/31/23
[ ] Other (Details)=	
Aqueous:	
[ ] No Anomalies	
[ ] Turbid/Color=	
[ ] Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
[ ] Emulsions (%)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Other (Details)=	
[ ] Received in 1.0L Bottle(s)=No Bottle Rinse=	
[ ] Other Notes/Comments= (Note problems, concerns, corrective actions).	
[X] Share Samples Y / (N)	CR 3/31/23
[X] Multiple Jars Y (N)	CR 3/31/23
[ ] Sample Pre-Screens indicate analyte activity=	
[ ] Sample weights/volumes reduced based on Pre-Screen=	

Data File C:\HPCHEM\1\DATA\033123B\001F0101.D Sample Name: DCM RINSE

Injection Date	: 3/31/2023 1:30:43 PM	Seq. Line	: 1
Sample Name	: DCM RINSE	Location	: Vial 1
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\033123B.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		

SCREEN METHOD

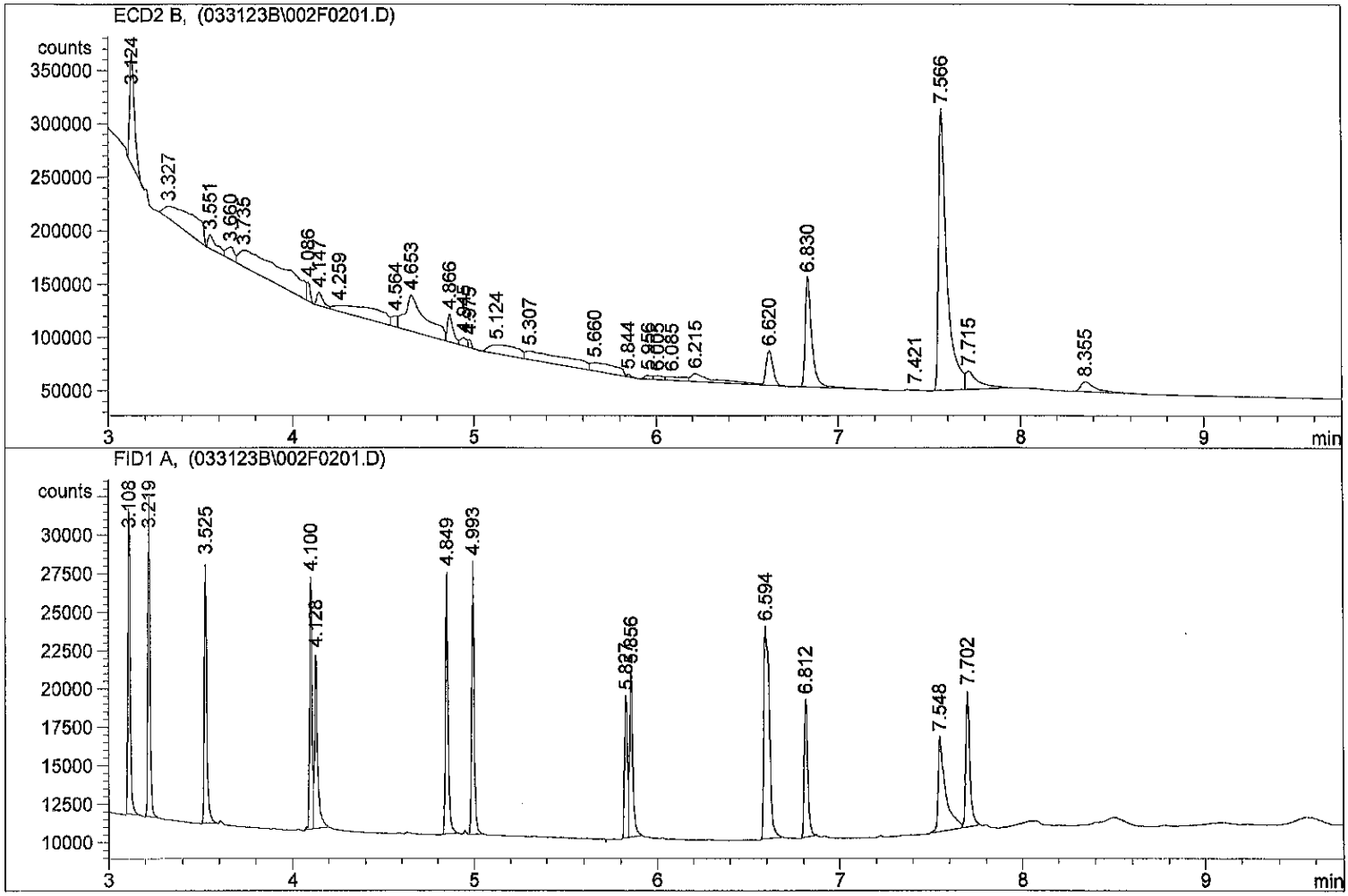


*** End of Report ***

Data File C:\HPCHEM\1\DATA\033123B\002F0201.D Sample Name: PNA STD 10PPM

Injection Date	: 3/31/2023 1:45:11 PM	Seq. Line :	2
Sample Name	: PNA STD 10PPM	Location :	Vial 2
Acq. Operator	: CR	Inj :	1
		Inj Volume :	1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\033123B.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		

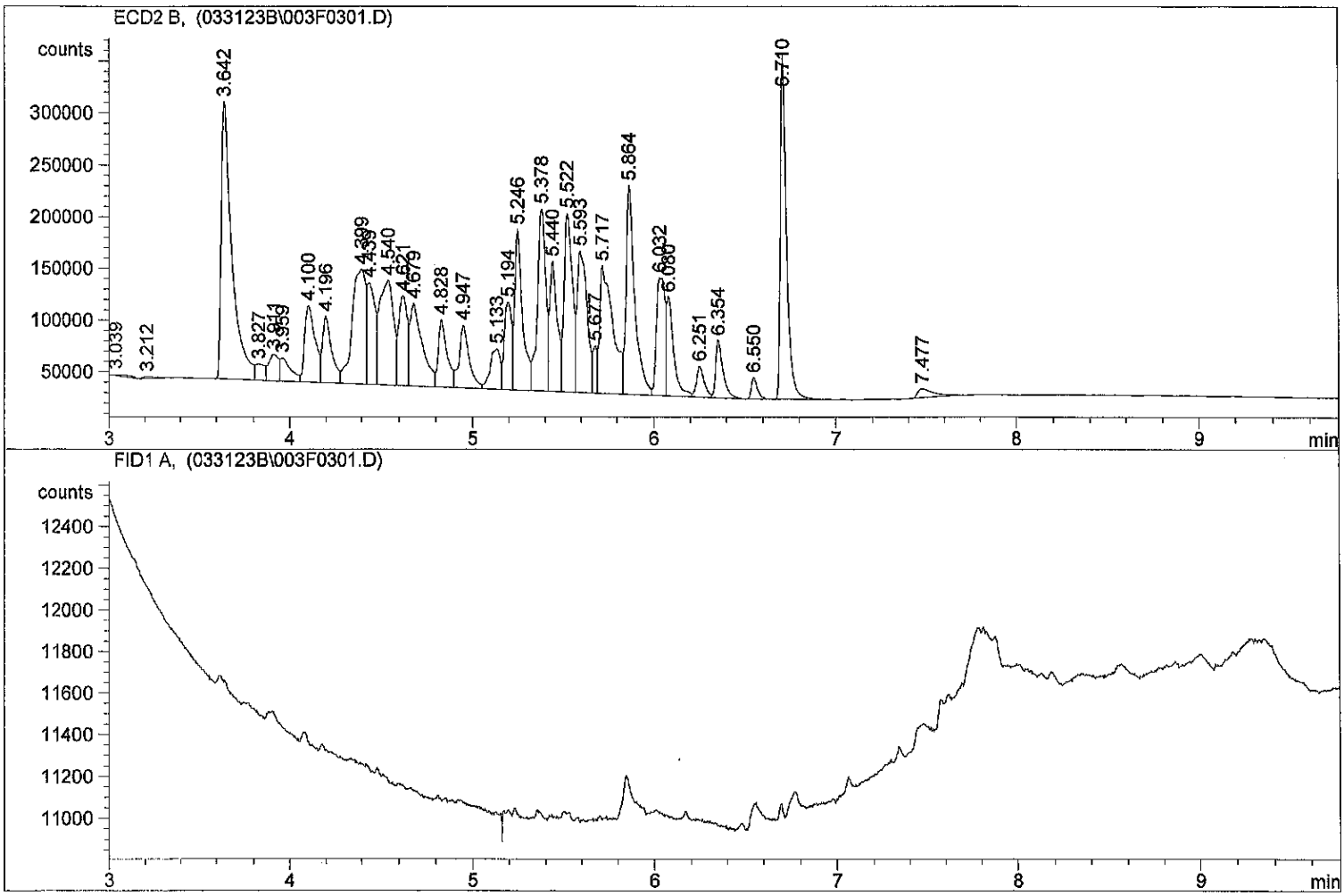
SCREEN METHOD



*** End of Report ***

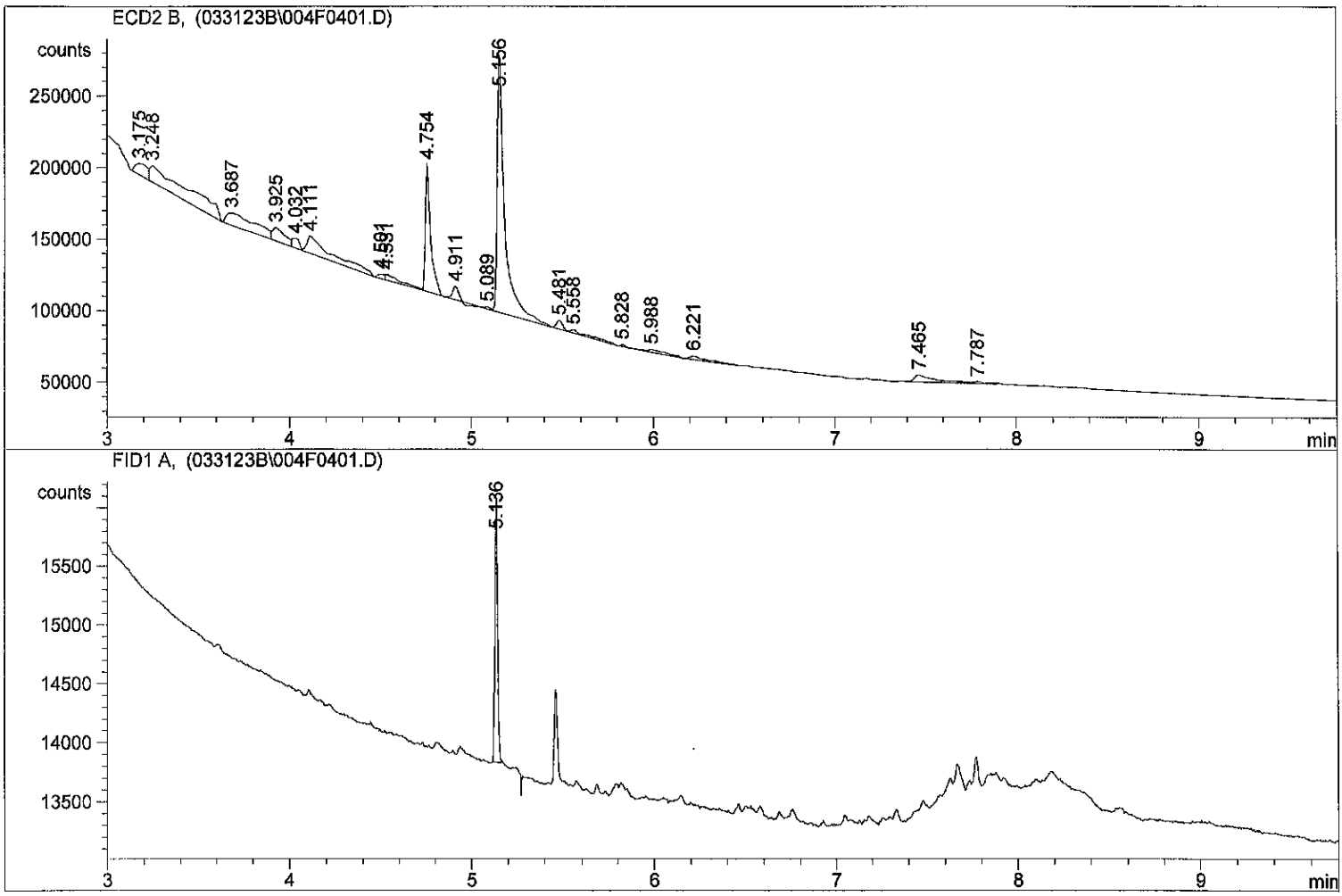
Data File C:\HPCHEM\1\DATA\033123B\003F0301.D Sample Name: AR1660 1PPM

Injection Date	: 3/31/2023 1:59:15 PM	Seq. Line :	3
Sample Name	: AR1660 1PPM	Location :	Vial 3
Acq. Operator	: CR	Inj :	1
		Inj Volume :	1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\033123B.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



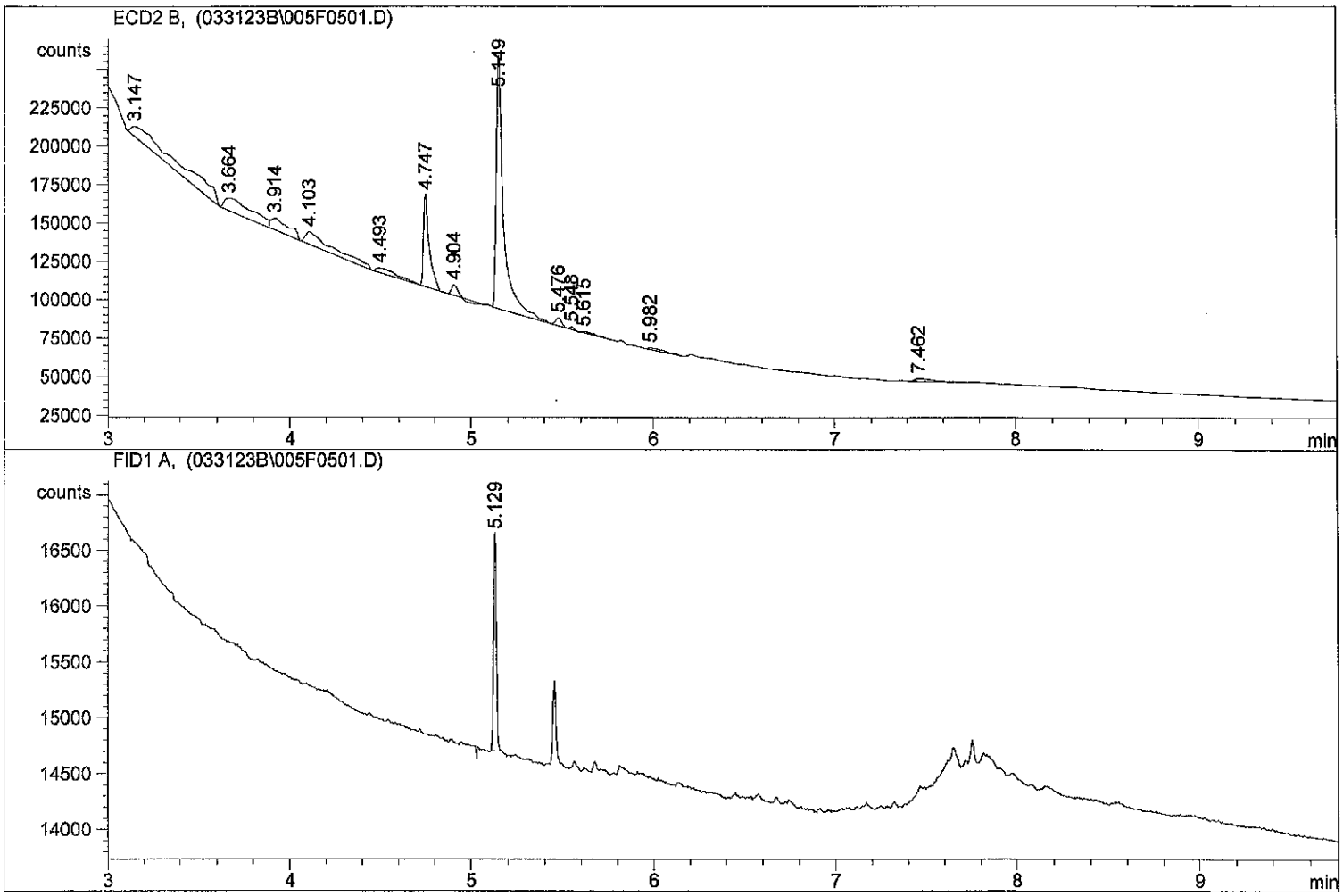
*** End of Report ***

Injection Date : 3/31/2023 2:14:16 PM Seq. Line : 4
Sample Name : 22C0752 01 Location : Vial 4
Acq. Operator : CR Inj : 1
Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\033123B.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

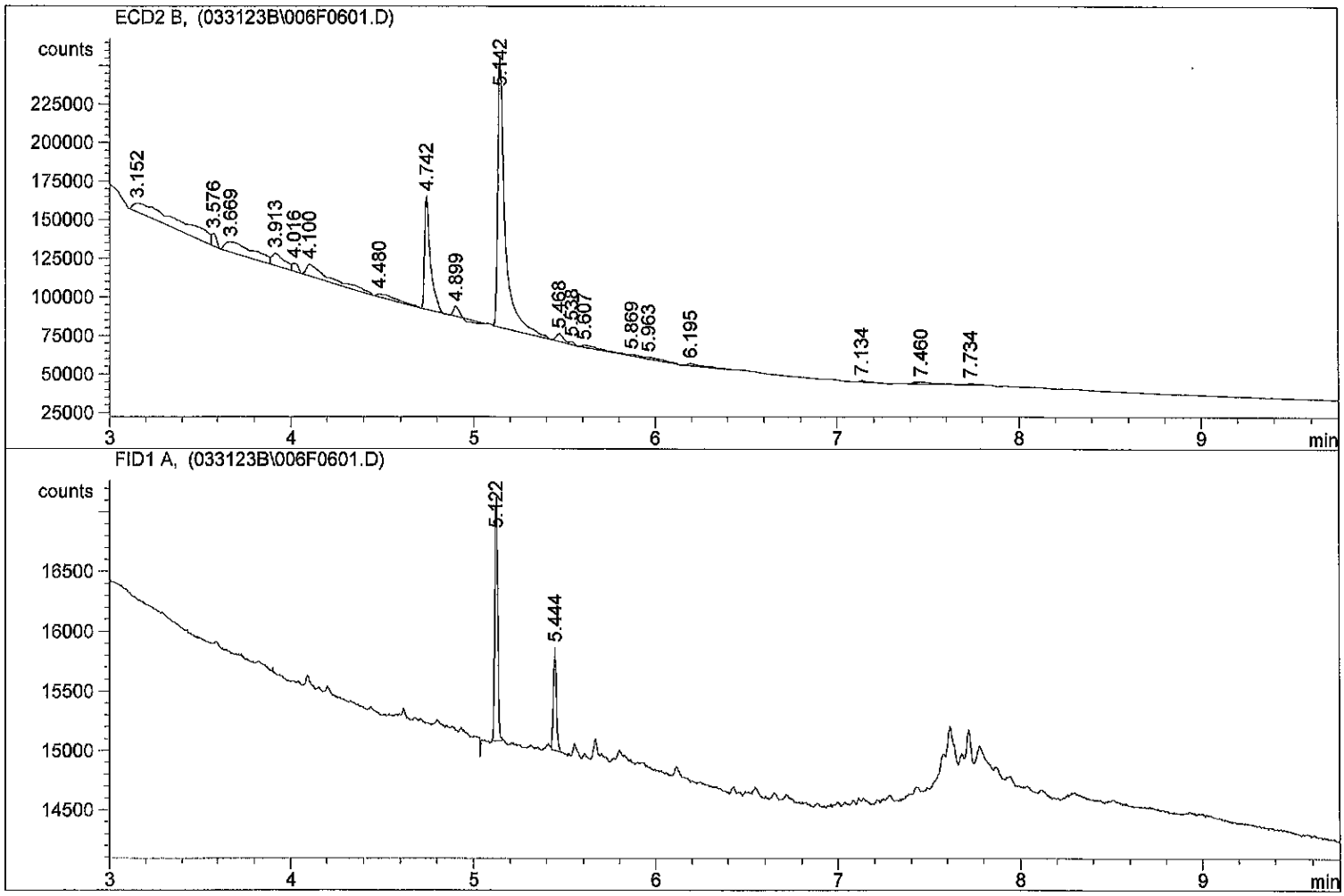
Injection Date	: 3/31/2023 2:29:09 PM	Seq. Line	: 5
Sample Name	: 22C0752 02	Location	: Vial 5
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\033123B.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

Injection Date : 3/31/2023 2:44:10 PM Seq. Line : 6
Sample Name : 22C0752 03 Location : Vial 6
Acq. Operator : CR Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\033123B.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD

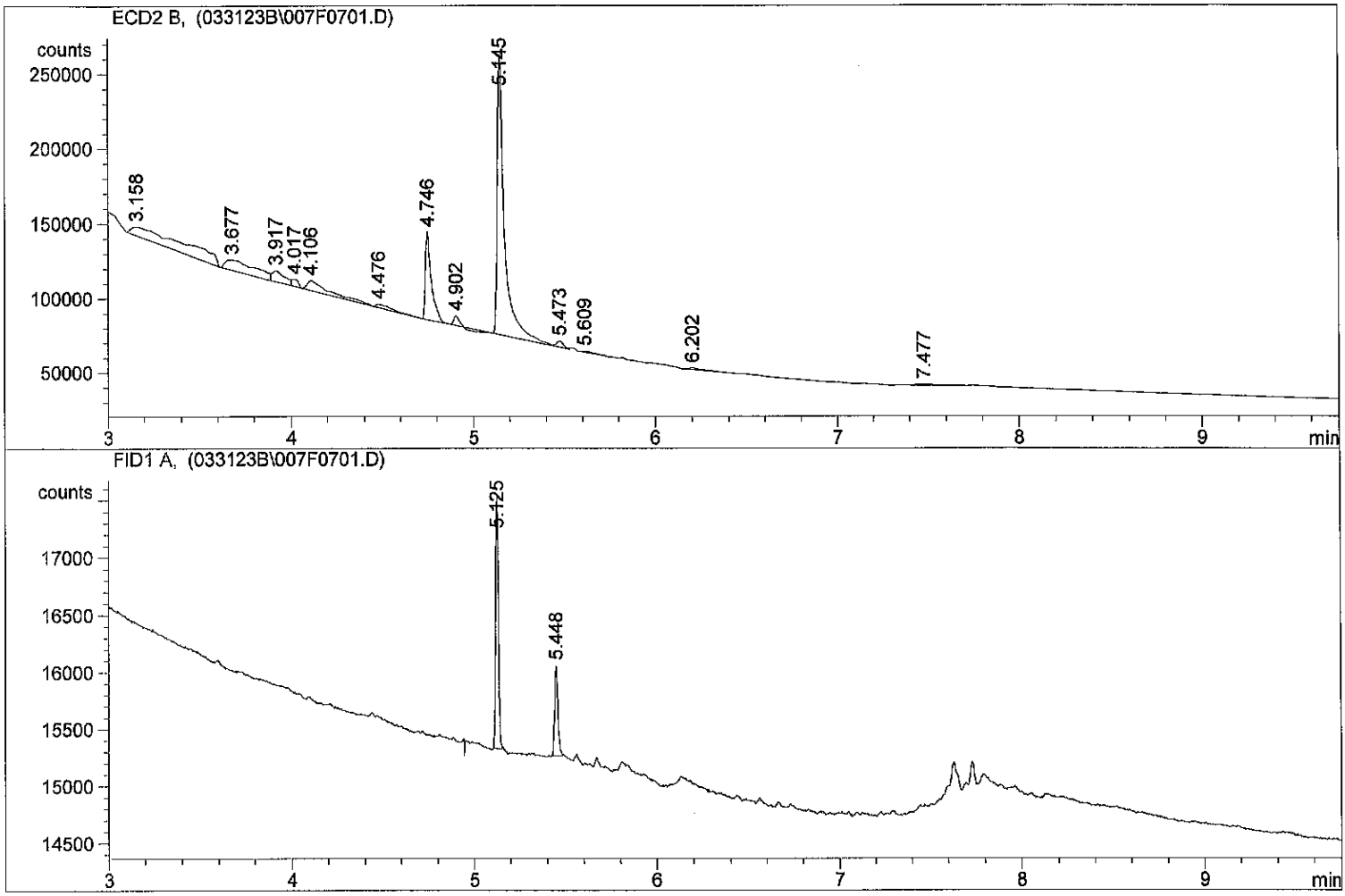


*** End of Report ***

Data File C:\HPCHEM\1\DATA\033123B\007F0701.D Sample Name: 22C0752 04

Injection Date	: 3/31/2023 2:59:08 PM	Seq. Line :	7
Sample Name	: 22C0752 04	Location :	Vial 7
Acq. Operator	: CR	Inj :	1
		Inj Volume :	1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\033123B.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		

SCREEN METHOD

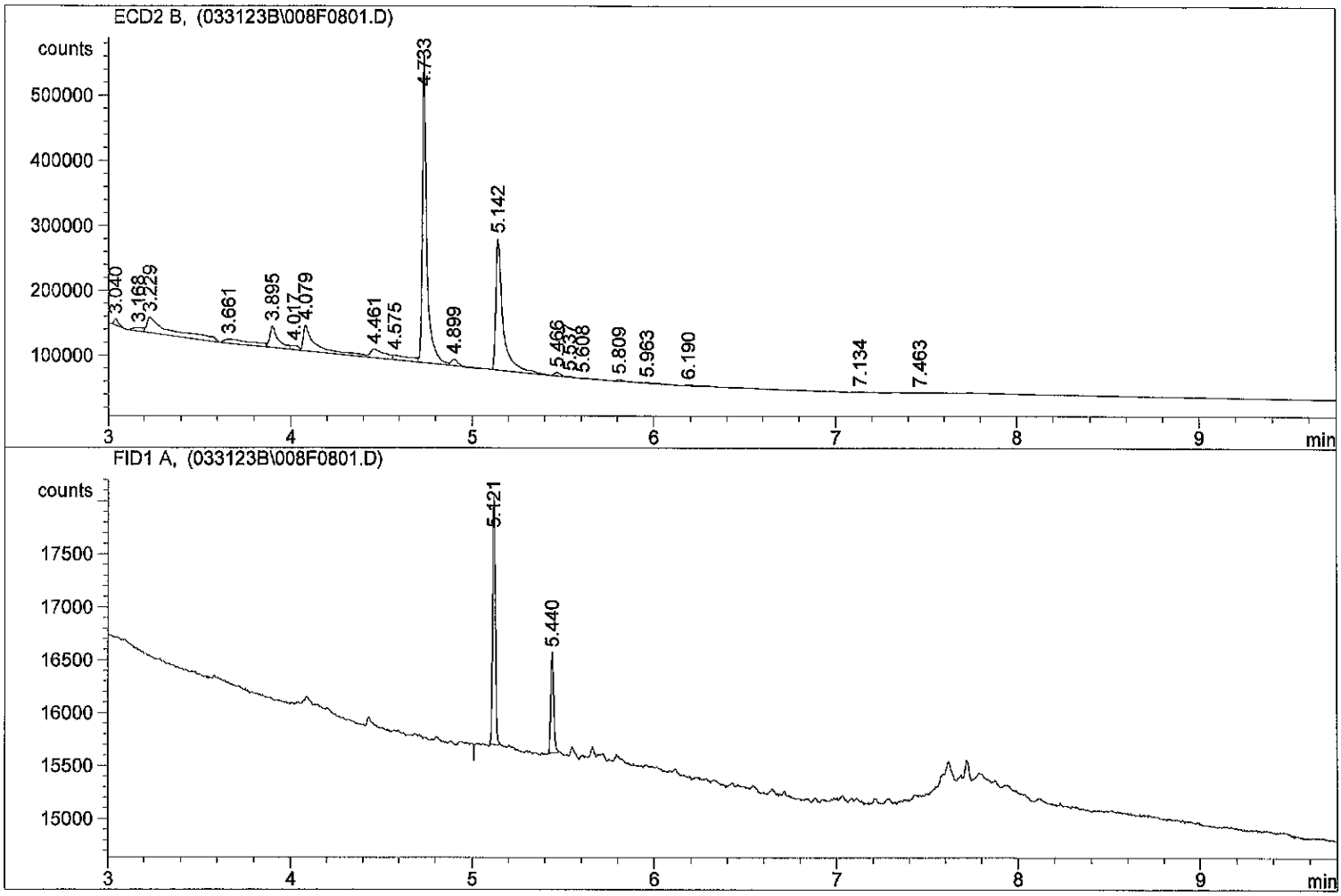


*** End of Report ***

Data File C:\HPCHEM\1\DATA\033123B\008F0801.D Sample Name: 22C0752 05

Injection Date	: 3/31/2023 3:14:06 PM	Seq. Line	: 8
Sample Name	: 22C0752 05	Location	: Vial 8
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\033123B.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		

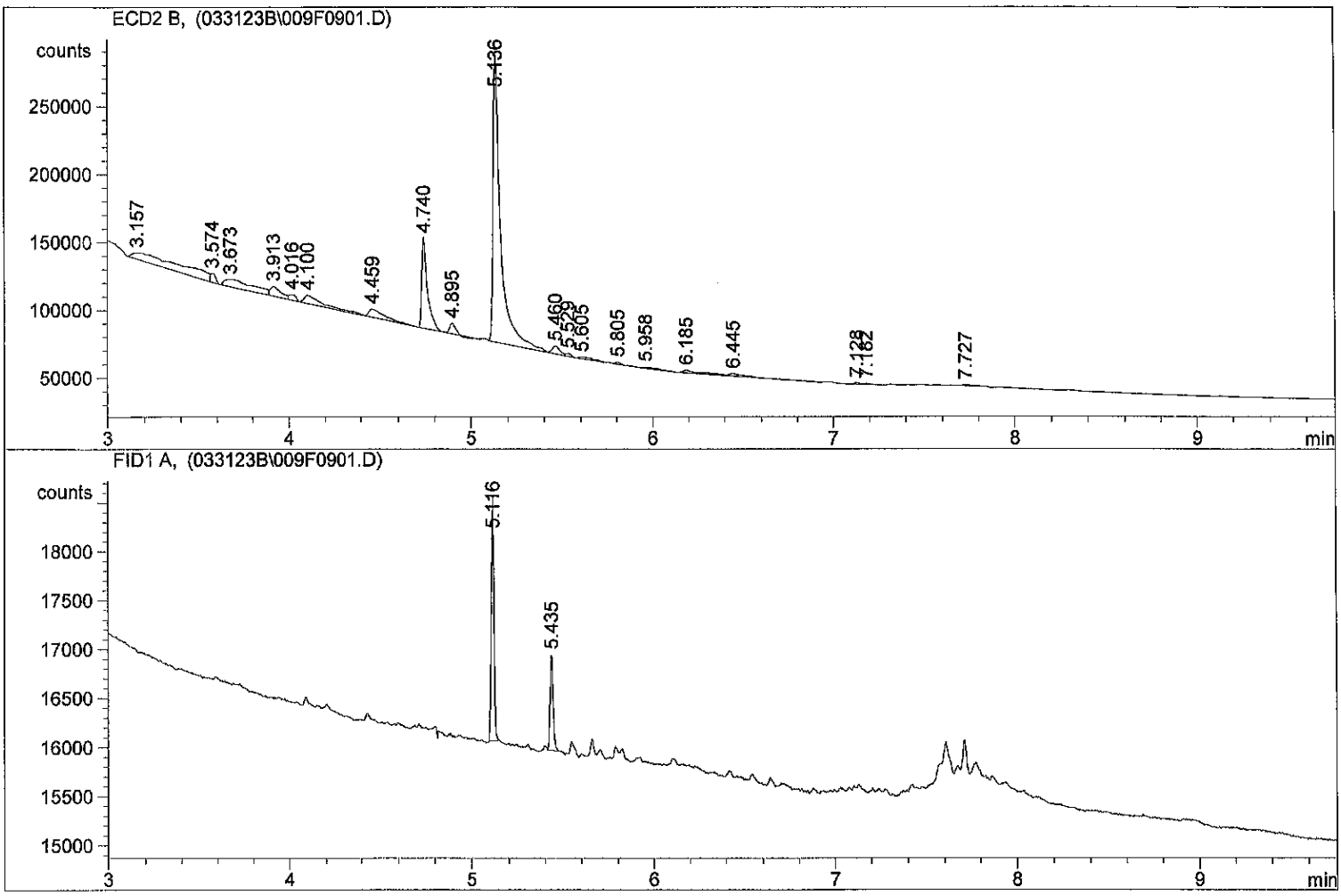
SCREEN METHOD



*** End of Report ***

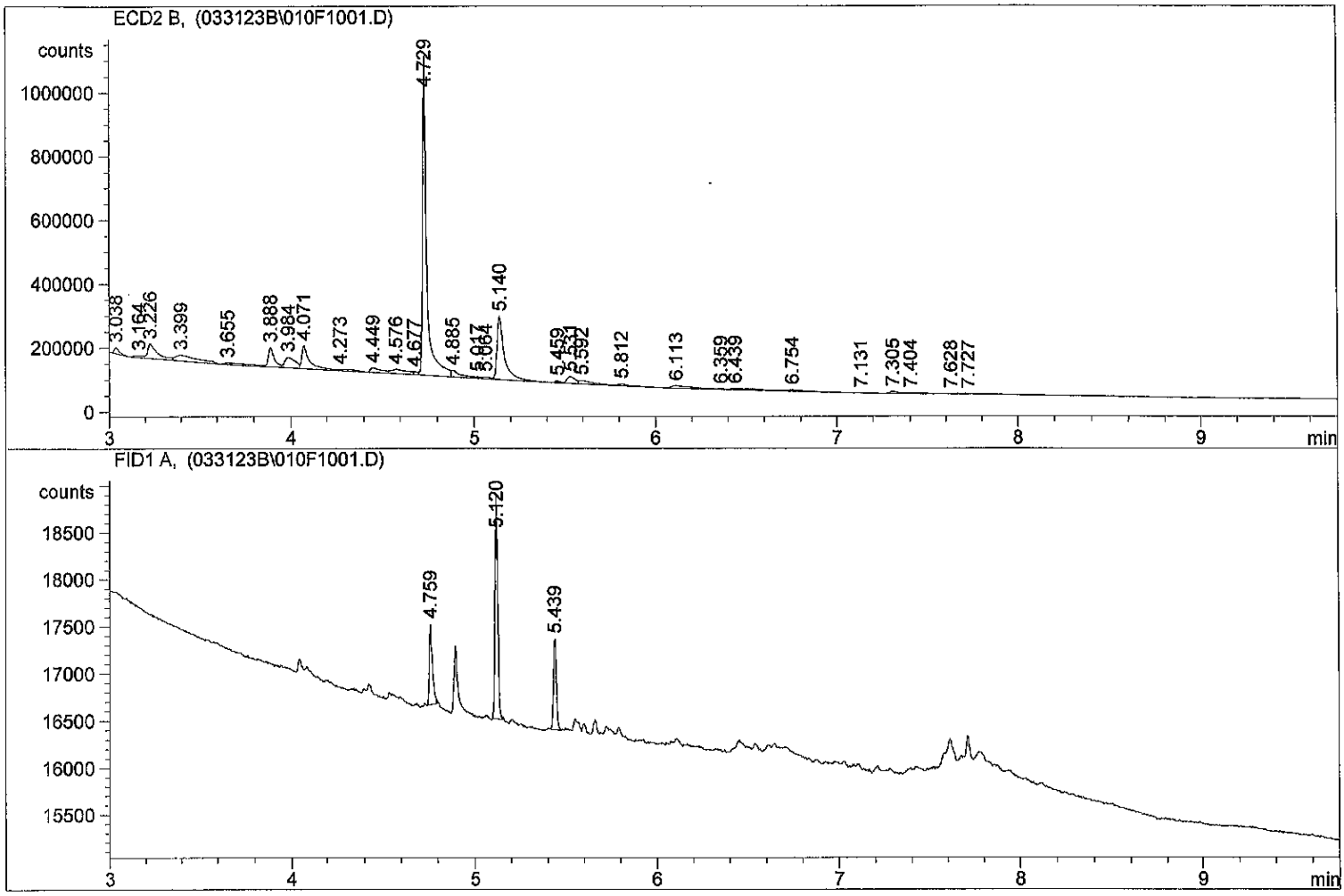
Data File C:\HPCHEM\1\DATA\033123B\009F0901.D Sample Name: 22C0752 06

Injection Date	: 3/31/2023 3:28:06 PM	Seq. Line :	9
Sample Name	: 22C0752 06	Location :	Vial 9
Acq. Operator	: CR	Inj :	1
		Inj Volume :	1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\033123B.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

Injection Date	: 3/31/2023 3:42:20 PM	Seq. Line	: 10
Sample Name	: 22C0752 07	Location	: Vial 10
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\033123B.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			

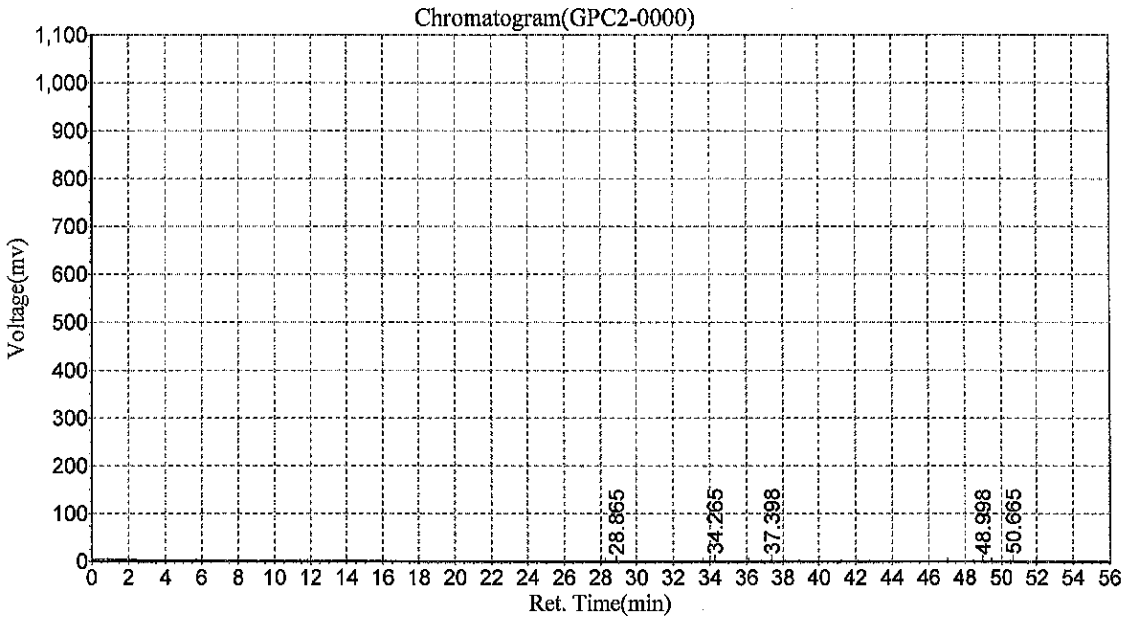


*** End of Report ***

BLC0799 23C0673 PCB

Date:2023-03-31,5:56:09 PM
Data File:c:\n2000\data\gpc2\033123\GPC2-0000
Method File:E:\GPC2_InHouse.mtd

Analyst£°SH
Date/Time2023-03-31,5:56:10 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		28.865	2331.167	131543.406	17.0080
2		34.265	3059.072	205069.672	26.5146
3		37.398	2100.833	157879.906	20.4132
4		48.998	1424.587	116001.984	14.9986
5		50.665	1945.714	162925.797	21.0656
Total			10861.373	773420.766	100.000

Ingredient Table

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

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLD0070	Cleanup Type:	Sulfuric Acid
Cleanup Method:	EPA 3665 Sulfuric Acid Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Matrix Spike Dup	BLD0010-MSD1	04122348ECD7.D	04/12/2023	
Reference	BLD0010-SRM1	04122341ECD7.D	04/12/2023	
Matrix Spike	BLD0010-MS1	04122347ECD7.D	04/12/2023	
LCS Dup	BLD0010-BSD1	04122340ECD7.D	04/12/2023	
LCS	BLD0010-BS1	04122339ECD7.D	04/12/2023	
Blank	BLD0010-BLK1	04122338ECD7.D	04/12/2023	
LDW23-SC1809	23C0752-07	04122350ECD7.D	04/12/2023	
LDW23-SS1810	23C0752-04	04122345ECD7.D	04/12/2023	
LDW23-SS1809	23C0752-06	04132304ECD7.D	04/12/2023	
LDW23-SS1132	23C0752-03	04122344ECD7.D	04/12/2023	
LDW23-SS1125	23C0752-02	04122343ECD7.D	04/12/2023	
LDW23-SS1026	23C0752-01	04122342ECD7.D	04/12/2023	
LDW23-SC1810	23C0752-05	04122346ECD7.D	04/12/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLD0070

Matrix: Solid **Cleanup using: Organics - EPA 3665 Sulfuric Acid Cleanup - uL** **Printed: 4/12/2023 11:55:39AM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23C0752-01	A	LDW23-SS1026	A 04	2.5	2.5	8082A PCB Solid 4	4/12/2023	ZH	
23C0752-02	A	LDW23-SS1125	A 04	2.5	2.5	8082A PCB Solid 4	4/12/2023	ZH	
23C0752-03	A	LDW23-SS1132	A 04	2.5	2.5	8082A PCB Solid 4	4/12/2023	ZH	
23C0752-04	A	LDW23-SS1810	A 04	2.5	2.5	8082A PCB Solid 4	4/12/2023	ZH	
23C0752-05	A	LDW23-SC1810	A 04	2.5	2.5	8082A PCB Solid 4	4/12/2023	ZH	
23C0752-06	A	LDW23-SS1809	A 04	2.5	2.5	8082A PCB Solid 4	4/12/2023	ZH	
23C0752-07	A	LDW23-SC1809	A 01	2.5	2.5	8082A PCB Solid 4	4/12/2023	ZH	
BLD0010-BLK1	-	Blank	-	2.5	2.5	-	4/12/2023	ZH	
BLD0010-BS1	-	LCS	-	2.5	2.5	-	4/12/2023	ZH	
BLD0010-BSD1	-	LCS Dup	-	2.5	2.5	-	4/12/2023	ZH	
BLD0010-MS1	-	Matrix Spike	-	2.5	2.5	-	4/12/2023	ZH	
BLD0010-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	4/12/2023	ZH	
BLD0010-SRM1	-	Reference	-	2.5	2.5	-	4/12/2023	ZH	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLD0071	Cleanup Type:	Sulfur
Cleanup Method:	EPA 3660B Sulfur Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Matrix Spike	BLD0010-MS1	04122347ECD7.D	04/12/2023	
LCS Dup	BLD0010-BSD1	04122340ECD7.D	04/12/2023	
LDW23-SC1809	23C0752-07	04122350ECD7.D	04/12/2023	
Matrix Spike Dup	BLD0010-MSD1	04122348ECD7.D	04/12/2023	
Reference	BLD0010-SRM1	04122341ECD7.D	04/12/2023	
LCS	BLD0010-BS1	04122339ECD7.D	04/12/2023	
LDW23-SS1810	23C0752-04	04122345ECD7.D	04/12/2023	
LDW23-SS1809	23C0752-06	04132304ECD7.D	04/12/2023	
LDW23-SS1132	23C0752-03	04122344ECD7.D	04/12/2023	
LDW23-SS1125	23C0752-02	04122343ECD7.D	04/12/2023	
LDW23-SS1026	23C0752-01	04122342ECD7.D	04/12/2023	
LDW23-SC1810	23C0752-05	04122346ECD7.D	04/12/2023	
Blank	BLD0010-BLK1	04122338ECD7.D	04/12/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLD0071

Matrix: Solid **Cleanup using: Organics - EPA 3660B Sulfur Cleanup - uL** **Printed: 4/12/2023 11:56:19AM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23C0752-01	A	LDW23-SS1026	A 04	2.5	2.5	8082A PCB Solid 4	4/12/2023	ZH	
23C0752-02	A	LDW23-SS1125	A 04	2.5	2.5	8082A PCB Solid 4	4/12/2023	ZH	
23C0752-03	A	LDW23-SS1132	A 04	2.5	2.5	8082A PCB Solid 4	4/12/2023	ZH	
23C0752-04	A	LDW23-SS1810	A 04	2.5	2.5	8082A PCB Solid 4	4/12/2023	ZH	
23C0752-05	A	LDW23-SC1810	A 04	2.5	2.5	8082A PCB Solid 4	4/12/2023	ZH	
23C0752-06	A	LDW23-SS1809	A 04	2.5	2.5	8082A PCB Solid 4	4/12/2023	ZH	
23C0752-07	A	LDW23-SC1809	A 01	2.5	2.5	8082A PCB Solid 4	4/12/2023	ZH	
BLD0010-BLK1	-	Blank	-	2.5	2.5	-	4/12/2023	ZH	
BLD0010-BS1	-	LCS	-	2.5	2.5	-	4/12/2023	ZH	
BLD0010-BSD1	-	LCS Dup	-	2.5	2.5	-	4/12/2023	ZH	
BLD0010-MS1	-	Matrix Spike	-	2.5	2.5	-	4/12/2023	ZH	
BLD0010-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	4/12/2023	ZH	
BLD0010-SRM1	-	Reference	-	2.5	2.5	-	4/12/2023	ZH	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLD0072	Cleanup Type:	Silica Gel
Cleanup Method:	EPA 3630C Silica Gel Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SC1809	23C0752-07	04122350ECD7.D	04/12/2023	
Blank	BLD0010-BLK1	04122338ECD7.D	04/12/2023	
Reference	BLD0010-SRM1	04122341ECD7.D	04/12/2023	
Matrix Spike	BLD0010-MS1	04122347ECD7.D	04/12/2023	
LDW23-SS1810	23C0752-04	04122345ECD7.D	04/12/2023	
LDW23-SS1809	23C0752-06	04132304ECD7.D	04/12/2023	
LDW23-SS1132	23C0752-03	04122344ECD7.D	04/12/2023	
LDW23-SS1125	23C0752-02	04122343ECD7.D	04/12/2023	
LDW23-SC1810	23C0752-05	04122346ECD7.D	04/12/2023	
Matrix Spike Dup	BLD0010-MSD1	04122348ECD7.D	04/12/2023	
LCS Dup	BLD0010-BSD1	04122340ECD7.D	04/12/2023	
LCS	BLD0010-BS1	04122339ECD7.D	04/12/2023	
LDW23-SS1026	23C0752-01	04122342ECD7.D	04/12/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLD0072

Matrix: Solid **Cleanup using: Organics - EPA 3630C Silica Gel Cleanup - uL** **Printed: 4/12/2023 11:56:56AM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23C0752-01	A	LDW23-SS1026	A 04	2.5	2.5	8082A PCB Solid 4	4/12/2023	ZH	
23C0752-02	A	LDW23-SS1125	A 04	2.5	2.5	8082A PCB Solid 4	4/12/2023	ZH	
23C0752-03	A	LDW23-SS1132	A 04	2.5	2.5	8082A PCB Solid 4	4/12/2023	ZH	
23C0752-04	A	LDW23-SS1810	A 04	2.5	2.5	8082A PCB Solid 4	4/12/2023	ZH	
23C0752-05	A	LDW23-SC1810	A 04	2.5	2.5	8082A PCB Solid 4	4/12/2023	ZH	
23C0752-06	A	LDW23-SS1809	A 04	2.5	2.5	8082A PCB Solid 4	4/12/2023	ZH	
23C0752-07	A	LDW23-SC1809	A 01	2.5	2.5	8082A PCB Solid 4	4/12/2023	ZH	
BLD0010-BLK1	-	Blank	-	2.5	2.5	-	4/12/2023	ZH	
BLD0010-BS1	-	LCS	-	2.5	2.5	-	4/12/2023	ZH	
BLD0010-BSD1	-	LCS Dup	-	2.5	2.5	-	4/12/2023	ZH	
BLD0010-MS1	-	Matrix Spike	-	2.5	2.5	-	4/12/2023	ZH	
BLD0010-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	4/12/2023	ZH	
BLD0010-SRM1	-	Reference	-	2.5	2.5	-	4/12/2023	ZH	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 8082A

Blank

Laboratory:	Analytical Resources, LLC			SDG:	23C0752
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Solid	Laboratory ID:	BLD0010-BLK1	File ID:	04122338ECD7.D
Sampled:	N/A	Prepared:	04/03/23 14:00	Analyzed:	04/12/23 21:42
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	12.5 g / 2.5 mL
Batch:	BLD0010	Sequence:	SLD0150	Calibration:	GB00069
Instrument:	ECD7	Column:	ZB5	Cleanups:	Silica Gel, Sulfur, Sulfuric Acid

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
12674-11-2	Aroclor 1016	1	4.0	U	1.6	4.0
11104-28-2	Aroclor 1221	1	4.0	U	1.6	4.0
11141-16-5	Aroclor 1232	1	4.0	U	1.6	4.0
53469-21-9	Aroclor 1242	1	4.0	U	1.6	4.0
12672-29-6	Aroclor 1248	1	4.0	U	1.6	4.0
11097-69-1	Aroclor 1254	1	4.0	U	1.6	4.0
11096-82-5	Aroclor 1260	1	4.0	U	0.6	4.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl	8.0000	7.89	98.6	40 - 126	
Tetrachlorometaxylene	8.0000	7.15	89.4	44 - 120	
Decachlorobiphenyl [2C]	8.0000	8.26	103	40 - 126	
Tetrachlorometaxylene [2C]	8.0000	6.55	81.8	44 - 120	

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230412.b/04122338ECD7.D
Data file 2: /230412.b/230412.b/04122338ECD7.D
Method: \\target\share\chem4\ecd7.i\230412.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLD0010-BLK1
Client ID:
Injection Date: 12-APR-2023 21:42
Report Date: 04/13/2023 09:58
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.808	-0.002	308565	5.692	-0.000	180284	35.8	32.7	8.9	Tetrachloro-m-xylene
13.898	-0.001	442205	14.123	-0.000	340237	39.4	41.3	4.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	577786	-14.2
Hexabromobiphenyl	1429847	1138856	-20.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	375421	19.1
Hexabromobiphenyl	513946	541184	5.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.911 - 13.799) = 144077 Col1 Total PCB = 0.0 ppm*

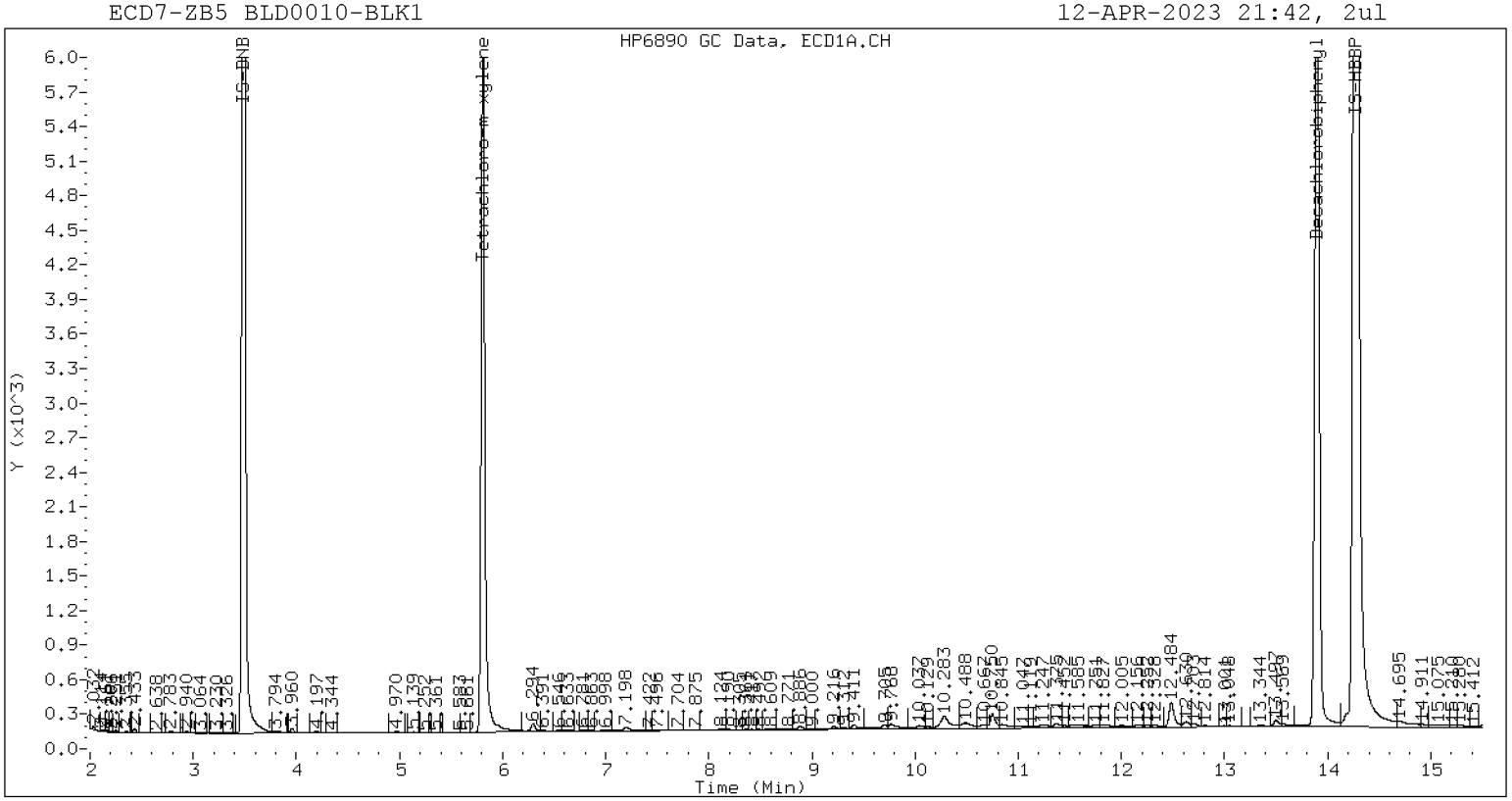
Total PCB Area Col2 (5.793 - 14.023) = 39771 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

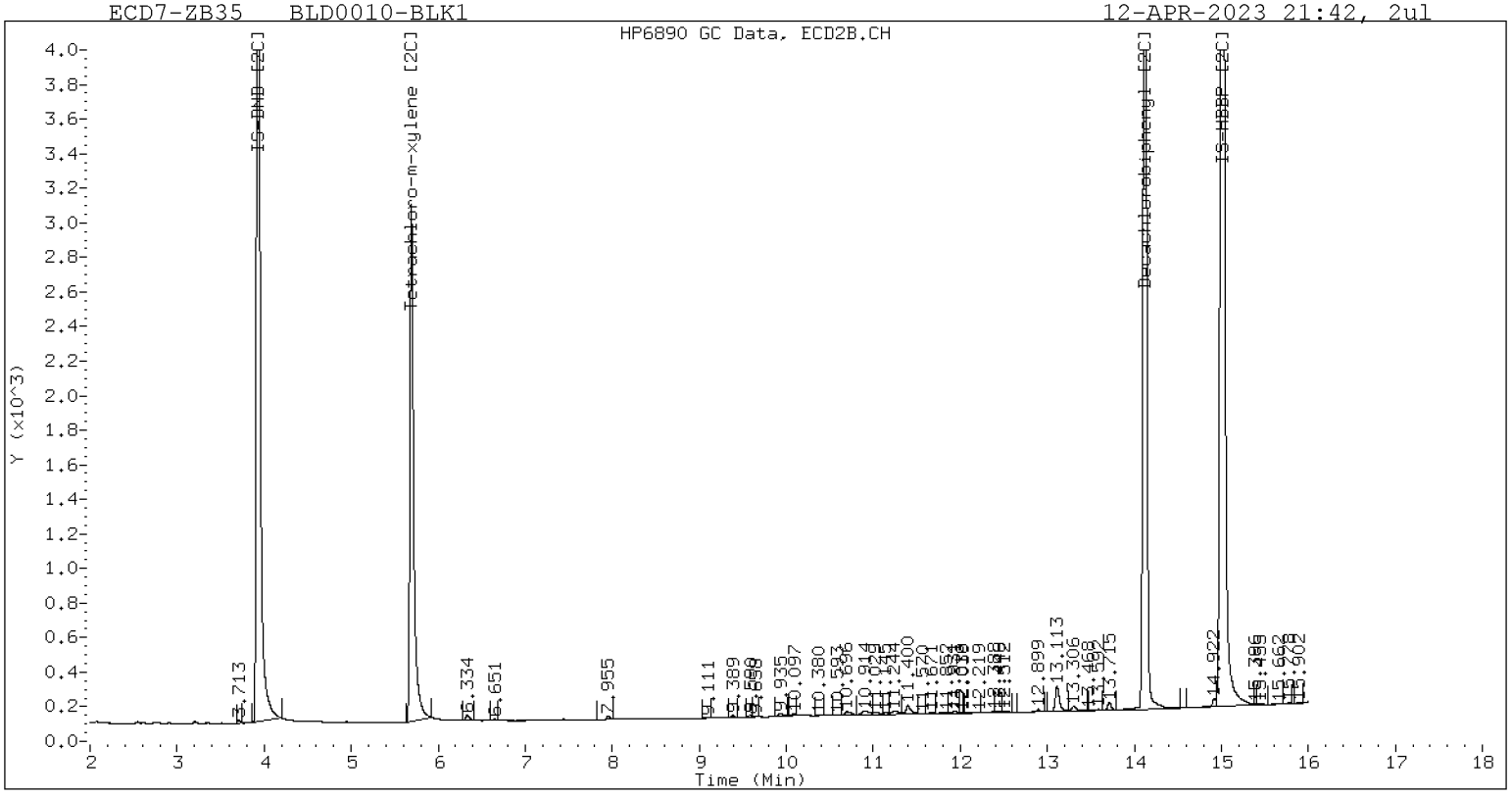
PCB Dual Column Chromatograms

ECD7-ZB5 BLD0010-BLK1 12-APR-2023 21:42, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BLD0010-BLK1 12-APR-2023 21:42, 2ul



ZB-35 Manual Integration: NO

LCS / LCS DUPLICATE RECOVERY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	04/12/23 22:02
Batch:	BLD0010	Laboratory ID:	BLD0010-BS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	12.5 g / 2.5 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Aroclor 1016	101	89.4		88.7	56 - 120
Aroclor 1260	101	98.6		97.8	58 - 120

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS	
						RPD	REC.
Aroclor 1016	101	85.5		84.9	4.44	30	56 - 120
Aroclor 1260	101	93.7		92.9	5.15	30	58 - 120

* Indicates values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230412.b/04122339ECD7.D
Data file 2: /230412.b/230412.b/04122339ECD7.D
Method: \\target\share\chem4\ecd7.i\230412.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLD0010-BS1
Client ID:
Injection Date: 12-APR-2023 22:02
Report Date: 04/13/2023 09:58
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.808	-0.002	305536	5.693	0.001	175664	35.8	32.5	9.6	Tetrachloro-m-xylene
13.898	-0.000	459625	14.124	0.000	352650	37.1	41.0	10.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	572125	-15.1
Hexabromobiphenyl	1429847	1258949	-12.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	368574	16.9
Hexabromobiphenyl	513946	565348	10.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.272	-0.004	96666	444.8	1	7.258	-0.001	80919	375.0
Aroclor-1016	2	7.666	-0.015	293253	442.7	2	7.874	-0.011	185557	424.1
Aroclor-1016	3	7.799	-0.008	148648	459.7	3	8.072	-0.021	91870	464.9
Aroclor-1016	4	8.412	-0.006	92257	441.3	4	8.315	-0.004	66482	428.8
Total Col1Ave (4 peaks):		447.1		Total Col2Ave (4 peaks):		423.2	RPD = 5			
Corrected Ave (3 peaks):		442.9		Corrected Ave (3 peaks):		409.3	RPD = 8			
Aroclor-1221	1	4.729	-0.002	393	7.7	1	---			0.0
Aroclor-1221	2	6.131	-0.001	11767	128.4	2	6.303	0.006	7763	117.6
Aroclor-1221	3	6.384	0.002	56611	266.1	3	6.630	0.008	36483	339.4
Total Col1Ave (3 peaks):		134.1		Col2Ave: <3 Quant Peaks						
Aroclor-1232	1	4.729	-0.001	393	12.8	1	---			0.0
Aroclor-1232	2	6.131	-0.000	11767	193.6	2	7.258	0.004	80919	863.5
Aroclor-1232	3	7.666	0.010	293253	1065.7	3	7.874	0.013	185557	990.3
Aroclor-1232	4	8.589	0.008	120355	1029.1	4	8.723	0.008	58692	1088.4
Total Col1Ave (4 peaks):		575.3		Total Col2Ave (3 peaks):		980.7	RPD = 52*			
Corrected Ave (3 peaks):		411.8		Corrected Ave: < 3 Peaks						
Aroclor-1242	1	7.272	-0.003	96666	545.2	1	7.258	-0.001	80919	472.5
Aroclor-1242	2	7.666	-0.020	293253	544.6	2	7.874	-0.015	185557	515.5
Aroclor-1242	3	8.412	-0.007	92257	550.7	3	9.184	-0.022	12595	112.4
Aroclor-1242	4	8.589	-0.011	120355	486.0	4	9.595	-0.042	5233	38.3
Total Col1Ave (4 peaks):		531.6		Total Col2Ave (4 peaks):		284.7	RPD = 60*			
Corrected Ave (3 peaks):		525.3		Corrected Ave (3 peaks):		207.8	RPD = 87*			
Aroclor-1248	1	8.412	-0.007	92257	330.5	1	8.315	-0.001	66482	377.8
Aroclor-1248	2	8.589	-0.010	120355	339.2	2	8.723	-0.001	58692	322.6
Aroclor-1248	3	8.999	-0.001	134836	201.4	3	9.184	-0.004	12595	60.1
Aroclor-1248	4	9.310	-0.001	112863	331.2	4	9.595	-0.022	5233	20.8
Total Col1Ave (4 peaks):		300.6		Total Col2Ave (4 peaks):		195.3	RPD = 42*			
Corrected Ave (3 peaks):		287.7		Corrected Ave (3 peaks):		134.5	RPD = 73*			
Aroclor-1254	1	9.310	-0.005	112863	196.5	1	9.461	-0.003	57236	204.3
Aroclor-1254	2	---			0.0	2	9.983	-0.002	12728	56.5
Aroclor-1254	3	9.681	-0.007	20719	56.1	3	10.154	0.011	118674	243.4
Aroclor-1254	4	9.819	-0.011	59709	83.1	4	10.378	-0.013	155467	327.1
Aroclor-1254	5	10.278	0.066	32916	73.1	5	10.578	-0.006	215098	743.2
Total Col1Ave (4 peaks):		102.2		Total Col2Ave (5 peaks):		314.9	RPD = 102*			
Corrected Ave (3 peaks):		70.8		Corrected Ave (4 peaks):		207.8	RPD = 98*			
Aroclor-1260	1	11.051	-0.005	234847	518.6	1	11.661	-0.002	160664	483.3
Aroclor-1260	2	11.369	-0.005	241457	510.3	2	11.927	-0.004	415999	490.3
Aroclor-1260	3	11.743	-0.007	611331	487.1	3	12.443	-0.002	101162	449.3
Aroclor-1260	4	12.149	-0.010	302741	479.0	4	12.511	-0.003	275407	481.6
Aroclor-1260	5	12.251	-0.004	128086	470.8	NS	---			----
Total Col1Ave (5 peaks):		493.2		Total Col2Ave (4 peaks):		476.1	RPD = 4			
Corrected Ave (4 peaks):		486.8		Corrected Ave (3 peaks):		471.4	RPD = 3			
Aroclor-1262	1	10.838	0.009	451882	1170.1	1	11.207	0.006	158219	327.8
Aroclor-1262	2	12.251	0.007	128086	203.8	2	11.661	0.009	160664	390.8
Aroclor-1262	3	12.326	0.008	154707	229.0	3	12.443	0.009	101162	216.9
Aroclor-1262	4	12.995	0.008	136543	221.2	4	12.511	0.009	275407	376.9
Total Col1Ave (4 peaks):		456.0		Total Col2Ave (4 peaks):		328.1	RPD = 33			
Corrected Ave (3 peaks):		218.0		Corrected Ave (3 peaks):		307.2	RPD = 34			
Aroclor-1268	1	12.251	0.005	128086	79.4	1	12.443	0.011	101162	88.9
Aroclor-1268	2	12.326	0.009	154707	96.8	2	12.511	0.011	275407	225.0
Aroclor-1268	3	12.733	0.033	64451	47.2	3	12.897	0.005	8210	7.9
Aroclor-1268	4	13.495	0.005	40777	9.1	4	13.715	0.006	31002	9.3
Total Col1Ave (4 peaks):		58.1		Total Col2Ave (4 peaks):		82.8	RPD = 35			
Corrected Ave (3 peaks):		45.2		Corrected Ave (3 peaks):		35.3	RPD = 25			

Total PCB Area Col1 (5.911 - 13.799) = 6283672 Col1 Total PCB = 0.9 ppm*

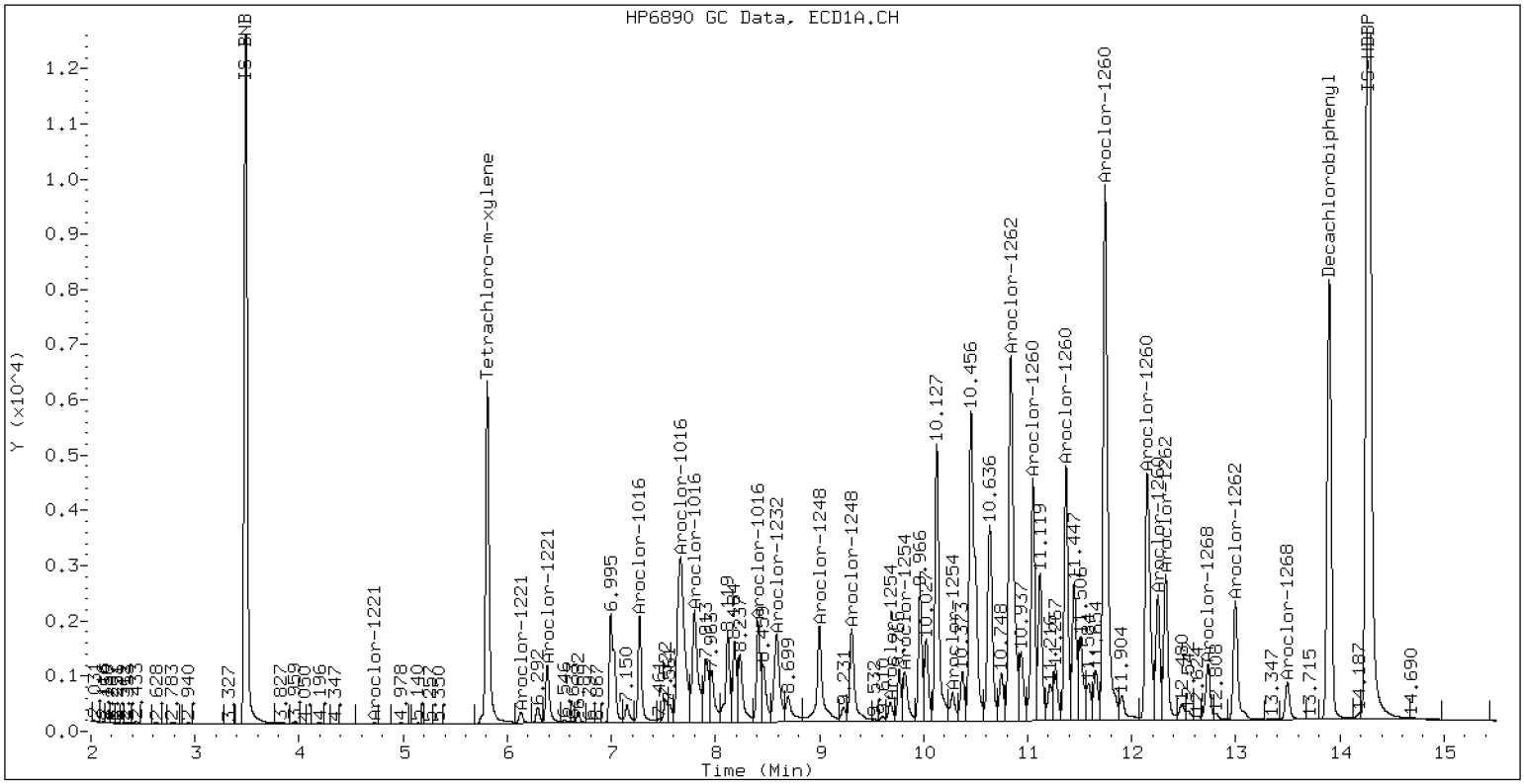
Total PCB Area Col2 (5.793 - 14.023) = 3792606 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

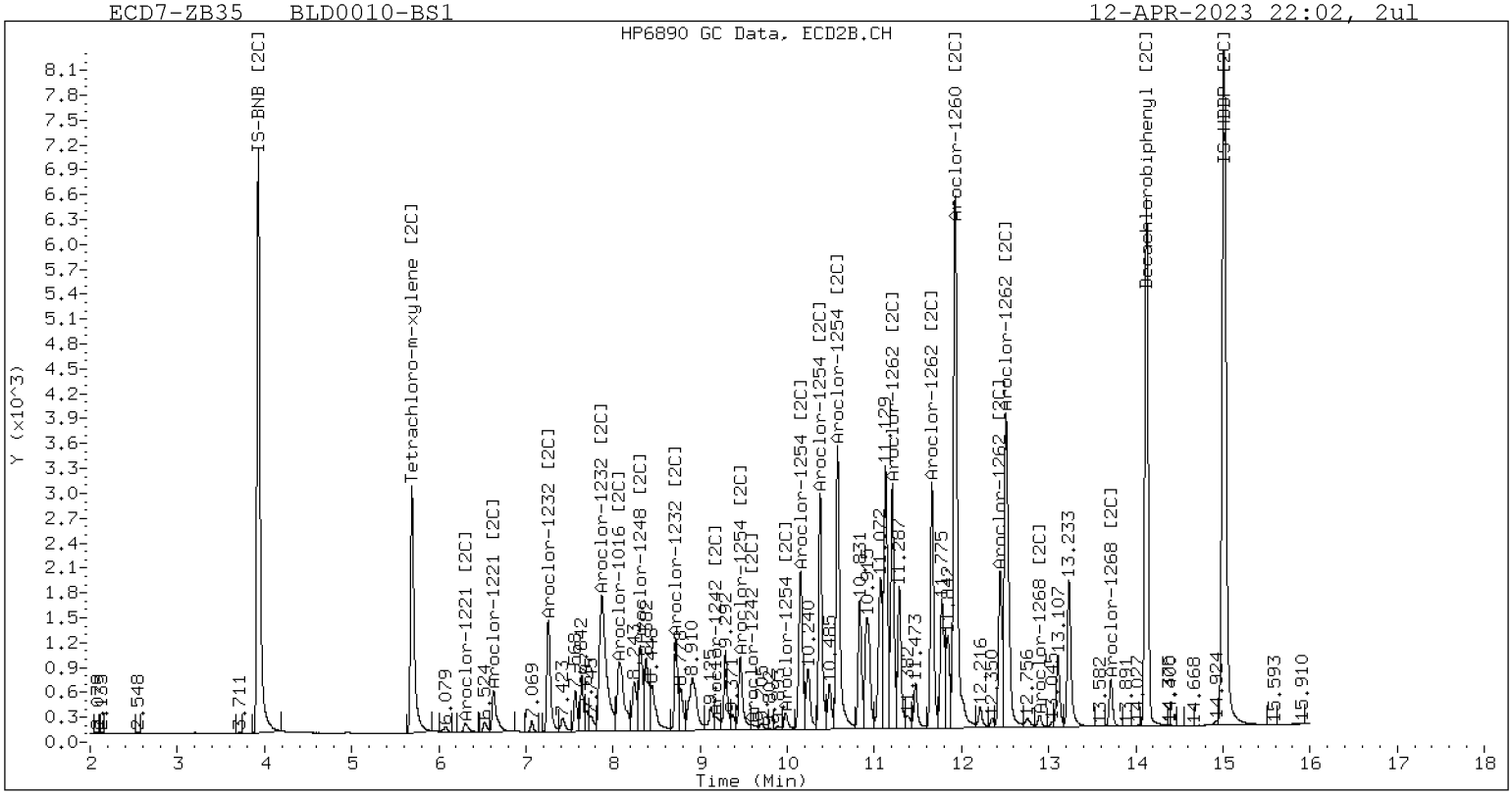
PCB Dual Column Chromatograms

ECD7-ZB5 BLD0010-BS1 12-APR-2023 22:02, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BLD0010-BS1 12-APR-2023 22:02, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230412.b/04122340ECD7.D
Data file 2: /230412.b/230412.b/04122340ECD7.D
Method: \\target\share\chem4\ecd7.i\230412.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLD0010-BSD1
Client ID:
Injection Date: 12-APR-2023 22:23
Report Date: 04/13/2023 09:58
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	-0.002	309156	5.694	0.001	181575	35.2	32.2	8.8	Tetrachloro-m-xylene
13.898	-0.001	460121	14.124	0.000	355821	35.2	39.9	12.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	588179	-12.7
Hexabromobiphenyl	1429847	1329053	-7.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	383884	21.8
Hexabromobiphenyl	513946	585014	13.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.272	-0.004	92367	413.5	1	7.258	-0.000	80554	358.5
Aroclor-1016	2	7.665	-0.016	292859	430.0	2	7.874	-0.011	183164	401.9
Aroclor-1016	3	7.798	-0.009	148021	445.2	3	8.075	-0.018	90965	442.0
Aroclor-1016	4	8.412	-0.007	90702	422.0	4	8.315	-0.004	65729	407.0
Total Col1Ave (4 peaks):					427.7	Total Col2Ave (4 peaks):				402.4 RPD = 6
Corrected Ave (3 peaks):					421.8	Corrected Ave (3 peaks):				389.1 RPD = 8
Aroclor-1221	1	4.730	-0.001	777	14.8	1	4.958	0.002	263	7.2
Aroclor-1221	2	6.132	-0.000	12005	127.4	2	6.305	0.008	7884	114.6
Aroclor-1221	3	6.385	0.003	56847	259.9	3	6.630	0.008	36203	323.3
Total Col1Ave (3 peaks):					134.0	Total Col2Ave (3 peaks):				148.4 RPD = 10
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.730	0.000	777	24.7	1	4.958	0.002	263	13.4
Aroclor-1232	2	6.132	0.001	12005	192.1	2	7.258	0.004	80554	825.3
Aroclor-1232	3	7.665	0.009	292859	1035.2	3	7.874	0.014	183164	938.5
Aroclor-1232	4	8.589	0.008	119092	990.5	4	8.722	0.007	56695	1009.4
Total Col1Ave (4 peaks):					560.6	Total Col2Ave (4 peaks):				696.7 RPD = 22
Corrected Ave (3 peaks):					402.4	Corrected Ave (3 peaks):				592.4 RPD = 38
Aroclor-1242	1	7.272	-0.003	92367	506.7	1	7.258	-0.001	80554	451.6
Aroclor-1242	2	7.665	-0.021	292859	529.1	2	7.874	-0.015	183164	488.5
Aroclor-1242	3	8.412	-0.007	90702	526.6	3	9.185	-0.022	12069	103.5
Aroclor-1242	4	8.589	-0.012	119092	467.8	4	9.602	-0.035	4602	32.4
Total Col1Ave (4 peaks):					507.5	Total Col2Ave (4 peaks):				269.0 RPD = 61*
Corrected Ave (3 peaks):					500.4	Corrected Ave (3 peaks):				195.8 RPD = 87*
Aroclor-1248	1	8.412	-0.007	90702	316.1	1	8.315	-0.001	65729	358.6
Aroclor-1248	2	8.589	-0.010	119092	326.5	2	8.722	-0.001	56695	299.2
Aroclor-1248	3	9.000	-0.001	135143	196.4	3	9.185	-0.004	12069	55.3
Aroclor-1248	4	9.310	-0.001	111962	319.6	4	9.602	-0.015	4602	17.6
Total Col1Ave (4 peaks):					289.6	Total Col2Ave (4 peaks):				182.7 RPD = 45*
Corrected Ave (3 peaks):					277.3	Corrected Ave (3 peaks):				124.0 RPD = 76*
Aroclor-1254	1	9.310	-0.005	111962	189.6	1	9.461	-0.004	56376	193.2
Aroclor-1254	2	---			0.0	2	9.984	-0.002	12174	51.9
Aroclor-1254	3	9.680	-0.008	20118	53.0	3	10.155	0.012	116512	229.4
Aroclor-1254	4	9.821	-0.009	59486	80.6	4	10.379	-0.012	152770	308.6
Aroclor-1254	5	10.279	0.066	29432	63.6	5	10.578	-0.005	210844	699.5
Total Col1Ave (4 peaks):					96.7	Total Col2Ave (5 peaks):				296.5 RPD = 102*
Corrected Ave (3 peaks):					65.7	Corrected Ave (4 peaks):				195.8 RPD = 99*
Aroclor-1260	1	11.052	-0.004	234355	490.2	1	11.662	-0.001	157706	458.5
Aroclor-1260	2	11.369	-0.004	240899	482.2	2	11.928	-0.002	412313	469.7
Aroclor-1260	3	11.745	-0.005	615780	464.8	3	12.445	-0.000	100090	429.6
Aroclor-1260	4	12.150	-0.009	301668	452.2	4	12.512	-0.002	272743	460.9
Aroclor-1260	5	12.252	-0.003	129972	452.6	NS	---			----
Total Col1Ave (5 peaks):					468.4	Total Col2Ave (4 peaks):				454.7 RPD = 3
Corrected Ave (4 peaks):					462.9	Corrected Ave (3 peaks):				449.7 RPD = 3
Aroclor-1262	1	10.838	0.009	451039	1106.3	1	11.208	0.008	154958	310.2
Aroclor-1262	2	12.252	0.008	129972	195.9	2	11.662	0.010	157706	370.7
Aroclor-1262	3	12.327	0.009	157719	221.1	3	12.445	0.011	100090	207.4
Aroclor-1262	4	12.997	0.009	140793	216.0	4	12.512	0.010	272743	360.7
Total Col1Ave (4 peaks):					434.8	Total Col2Ave (4 peaks):				312.2 RPD = 33
Corrected Ave (3 peaks):					211.0	Corrected Ave (3 peaks):				292.7 RPD = 32
Aroclor-1268	1	12.252	0.005	129972	76.3	1	12.445	0.013	100090	85.0
Aroclor-1268	2	12.327	0.010	157719	93.5	2	12.512	0.012	272743	215.4
Aroclor-1268	3	12.734	0.035	67195	46.6	3	12.898	0.006	8041	7.4
Aroclor-1268	4	13.496	0.006	45415	9.6	4	13.716	0.007	30729	8.9
Total Col1Ave (4 peaks):					56.5	Total Col2Ave (4 peaks):				79.2 RPD = 33

Corrected Ave (3 peaks): 44.1 Corrected Ave (3 peaks): 33.8 RPD = 27

Total PCB Area Col1 (5.911 - 13.799) = 6287797 Col1 Total PCB = 0.9 ppm*

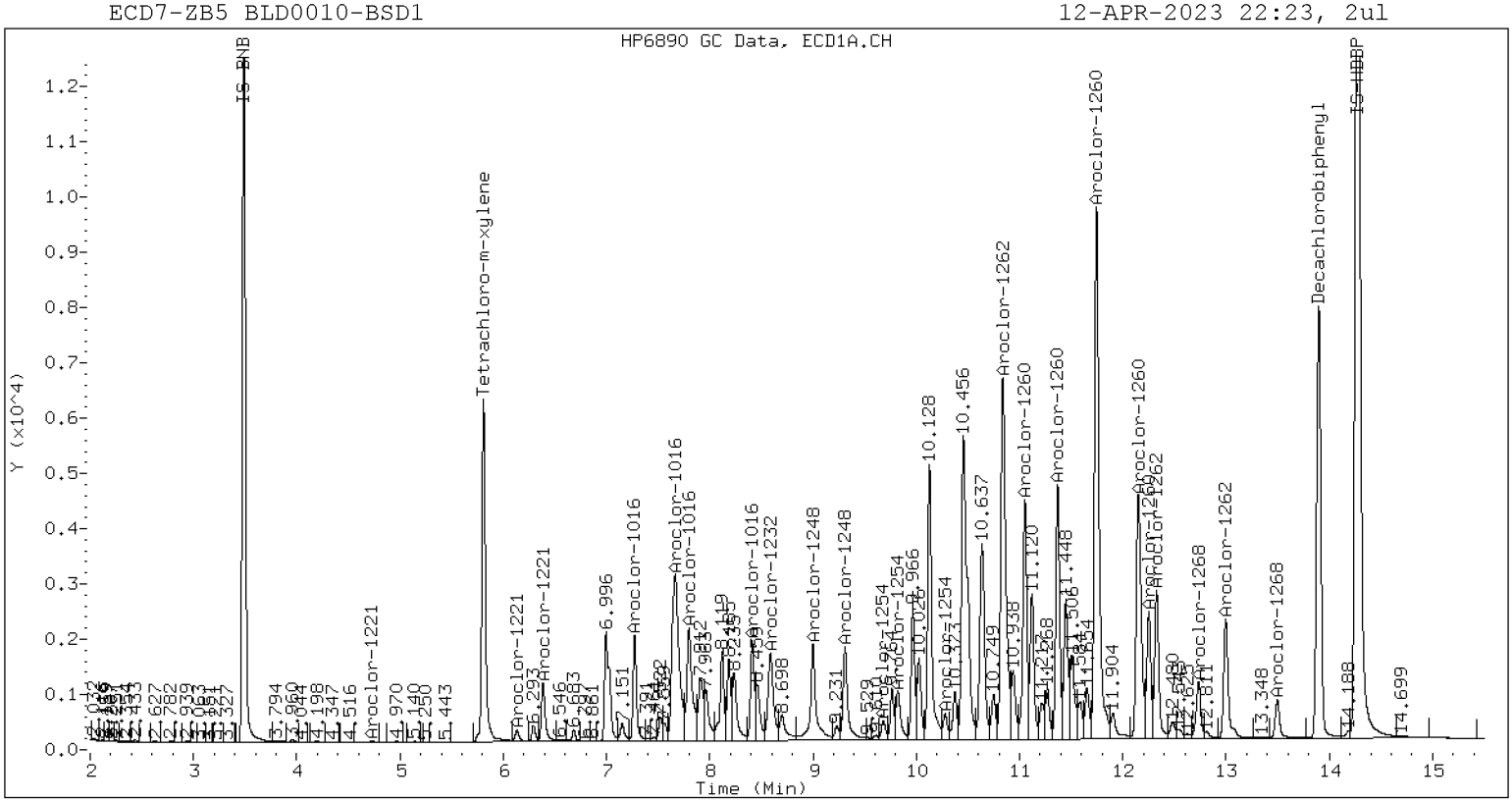
Total PCB Area Col2 (5.793 - 14.023) = 3734277 Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

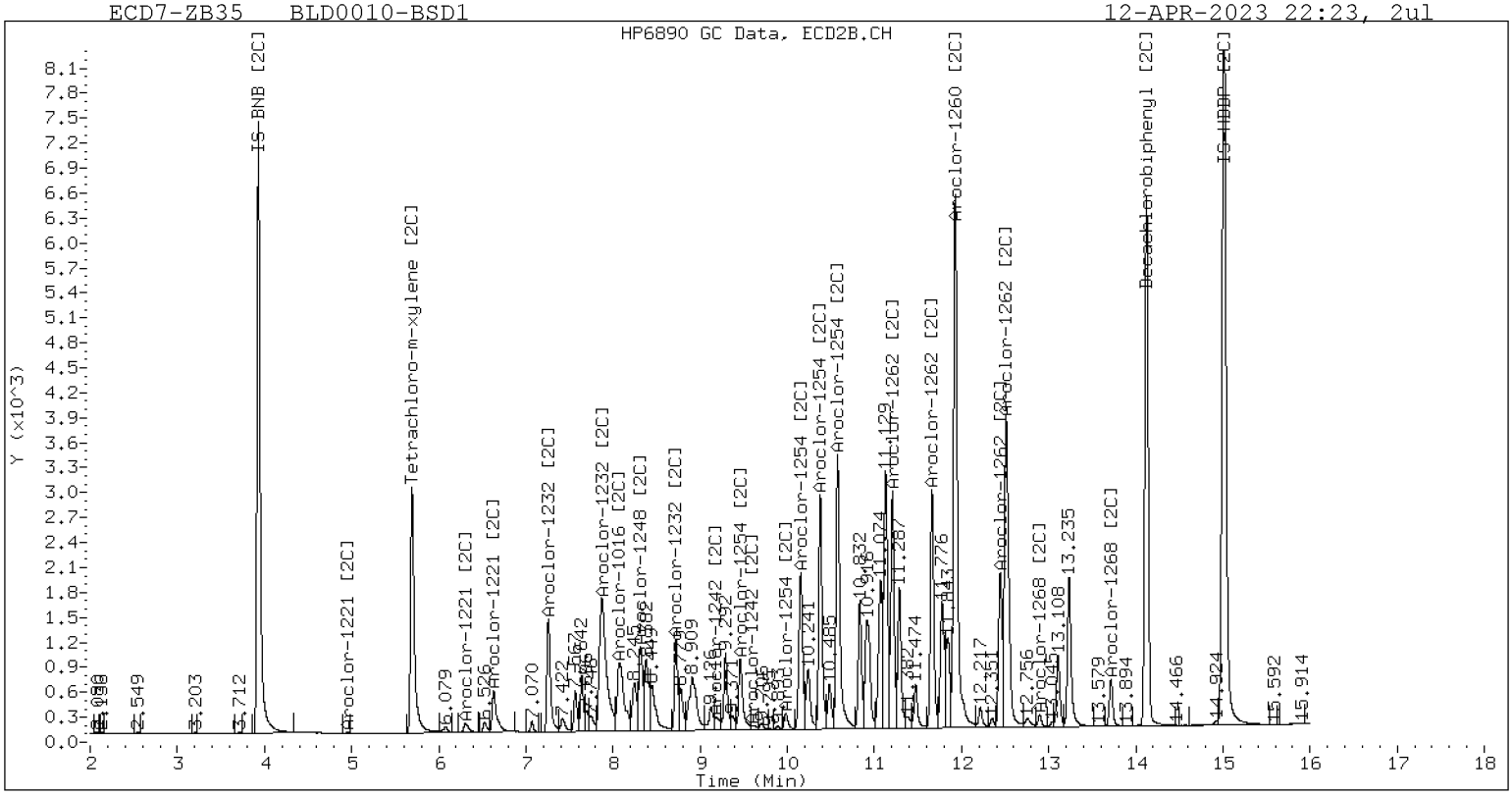
PCB Dual Column Chromatograms

ECD7-ZB5 BLD0010-BSD1 12-APR-2023 22:23, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BLD0010-BSD1 12-APR-2023 22:23, 2ul



ZB-35 Manual Integration: NO

MS / MS DUPLICATE RECOVERY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	04/13/23 00:48
Batch:	BLD0010	Laboratory ID:	BLD0010-MS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	23.99 g / 2.5 mL	Source Sample:	LDW23-SC1810

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #		QC LIMITS REC.
Aroclor 1016	101	ND	U	54.5	*, P1	54.1	*	56 - 120
Aroclor 1260 [2C]	101	53.2		252	E	197	*	58 - 120

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

MS / MS DUPLICATE RECOVERY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	04/13/23 01:09
Batch:	BLD0010	Laboratory ID:	BLD0010-MSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	23.99 g / 2.5 mL	Source Sample:	LDW23-SC1810

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor 1016	101	47.6	*, P1	47.3 *	13.5	30	56 - 120
Aroclor 1260 [2C]	101	118		64.3	72.4 *	30	58 - 120

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230412.b/04122347ECD7.D
Data file 2: /230412.b/230412.b/04122347ECD7.D
Method: \\target\share\chem4\ecd7.i\230412.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLD0010-MS1
Client ID:
Injection Date: 13-APR-2023 00:48
Report Date: 04/13/2023 09:59
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.802	-0.009	199739	5.684	-0.009	138079	25.1	28.7	13.3	Tetrachloro-m-xylene
13.885	-0.014	136643	14.111	-0.013	176666	36.0	34.5	4.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	532903	-20.9
Hexabromobiphenyl	1429847	385621	-73.0 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	328231	4.1
Hexabromobiphenyl	513946	336449	-34.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.263	-0.013	75543	373.2	1	7.250	-0.009	79662	414.6
Aroclor-1016	2	7.697	0.016	13459	21.8	2	7.844	-0.040	172407	442.5
Aroclor-1016	3	7.780	-0.028	82482	273.8	3	8.043	-0.050	62923	357.6
Aroclor-1016	4	8.395	-0.023	82127	421.8	4	8.299	-0.020	58855	426.3
Total Col1Ave (4 peaks):					272.7	Total Col2Ave (4 peaks):				410.2 RPD = 40*
Corrected Ave (3 peaks):					223.0	Corrected Ave (3 peaks):				399.5 RPD = 57*
Aroclor-1221	1	4.727	-0.004	256	5.4	1	4.944	-0.012	3756	120.9
Aroclor-1221	2	6.126	-0.006	9357	109.6	2	6.348	0.052	33660	572.4
Aroclor-1221	3	6.376	-0.006	42274	213.3	3	6.618	-0.004	38706	404.3
Total Col1Ave (3 peaks):					109.4	Total Col2Ave (3 peaks):				365.9 RPD = 108*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.727	-0.003	256	9.0	1	4.944	-0.012	3756	223.7
Aroclor-1232	2	6.126	-0.005	9357	165.3	2	7.250	-0.004	79662	954.5
Aroclor-1232	3	7.642	-0.013	219507	856.4	3	7.844	-0.016	172407	1033.2
Aroclor-1232	4	8.565	-0.016	77948	715.5	4	8.704	-0.011	59159	1231.9
Total Col1Ave (4 peaks):					436.6	Total Col2Ave (4 peaks):				860.8 RPD = 65*
Corrected Ave (3 peaks):					296.6	Corrected Ave (3 peaks):				737.1 RPD = 85*
Aroclor-1242	1	7.263	-0.013	75543	457.4	1	7.250	-0.010	79662	522.4
Aroclor-1242	2	7.697	0.011	13459	26.8	2	7.844	-0.045	172407	537.8
Aroclor-1242	3	8.395	-0.023	82127	526.3	3	9.216	0.009	35652	357.4
Aroclor-1242	4	8.565	-0.036	77948	337.9	4	9.686	0.050	18167	149.5
Total Col1Ave (4 peaks):					337.1	Total Col2Ave (4 peaks):				391.8 RPD = 15
Corrected Ave (3 peaks):					274.1	Corrected Ave (3 peaks):				343.1 RPD = 22
Aroclor-1248	1	8.395	-0.023	82127	315.9	1	8.299	-0.017	58855	375.5
Aroclor-1248	2	8.565	-0.034	77948	235.8	2	8.704	-0.019	59159	365.1
Aroclor-1248	3	8.983	-0.018	119756	192.1	3	9.216	0.027	35652	191.2
Aroclor-1248	4	9.285	-0.025	137525	433.3	4	9.686	0.070	18167	81.1
Total Col1Ave (4 peaks):					294.3	Total Col2Ave (4 peaks):				253.2 RPD = 15
Corrected Ave (3 peaks):					247.9	Corrected Ave (3 peaks):				212.5 RPD = 15
Aroclor-1254	1	9.285	-0.030	137525	257.0	1	9.436	-0.028	93953	376.6
Aroclor-1254	2	9.402	0.007	5818	24.2	2	9.955	-0.031	39400	196.3
Aroclor-1254	3	9.711	0.023	19562	56.9	3	10.106	-0.037	200111	460.8
Aroclor-1254	4	9.785	-0.046	177836	265.8	4	10.357	-0.033	279703	660.7
Aroclor-1254	5	10.244	0.032	45678	108.9	5	10.552	-0.031	359519	1394.9
Total Col1Ave (5 peaks):					142.6	Total Col2Ave (5 peaks):				617.9 RPD = 125*
Corrected Ave (4 peaks):					111.7	Corrected Ave (4 peaks):				423.6 RPD = 117*
Aroclor-1260	1	11.032	-0.024	215259	1551.8	1	11.641	-0.021	218908	1106.5
Aroclor-1260	2	11.347	-0.026	201174	1388.0	2	11.904	-0.026	683062	1352.9
Aroclor-1260	3	11.718	-0.033	666370	1733.4	3	12.422	-0.023	175068	1306.6
Aroclor-1260	4	12.119	-0.040	361242	1866.1	4	12.486	-0.028	434297	1276.1
Aroclor-1260	5	12.232	-0.023	104103	1249.3	NS	---			----
Total Col1Ave (5 peaks):					1557.7	Total Col2Ave (4 peaks):				1260.5 RPD = 21
Corrected Ave (4 peaks):					1480.6	Corrected Ave (3 peaks):				1229.7 RPD = 19
Aroclor-1262	1	10.807	-0.022	558829	4724.0	1	11.188	-0.013	197461	687.4
Aroclor-1262	2	12.232	-0.012	104103	540.8	2	11.641	-0.010	218908	894.7
Aroclor-1262	3	12.305	-0.014	147164	711.2	3	12.422	-0.011	175068	630.6
Aroclor-1262	4	12.972	-0.015	147812	781.6	4	12.486	-0.016	434297	998.6
Total Col1Ave (4 peaks):					1689.4	Total Col2Ave (4 peaks):				802.8 RPD = 71*
Corrected Ave (3 peaks):					677.9	Corrected Ave (3 peaks):				737.6 RPD = 8
Aroclor-1268	1	12.232	-0.014	104103	210.7	1	12.422	-0.010	175068	258.4
Aroclor-1268	2	12.305	-0.012	147164	300.8	2	12.486	-0.014	434297	596.3
Aroclor-1268	3	12.709	0.009	69223	165.3	3	12.883	-0.008	10018	16.1
Aroclor-1268	4	13.475	-0.015	35240	25.6	4	13.697	-0.012	44039	22.2
Total Col1Ave (4 peaks):					175.6	Total Col2Ave (4 peaks):				223.2 RPD = 24

Corrected Ave (3 peaks): 133.9 Corrected Ave (3 peaks): 98.9 RPD = 30

Total PCB Area Col1 (5.911 - 13.799) = 6668757 Col1 Total PCB = 1.0 ppm*

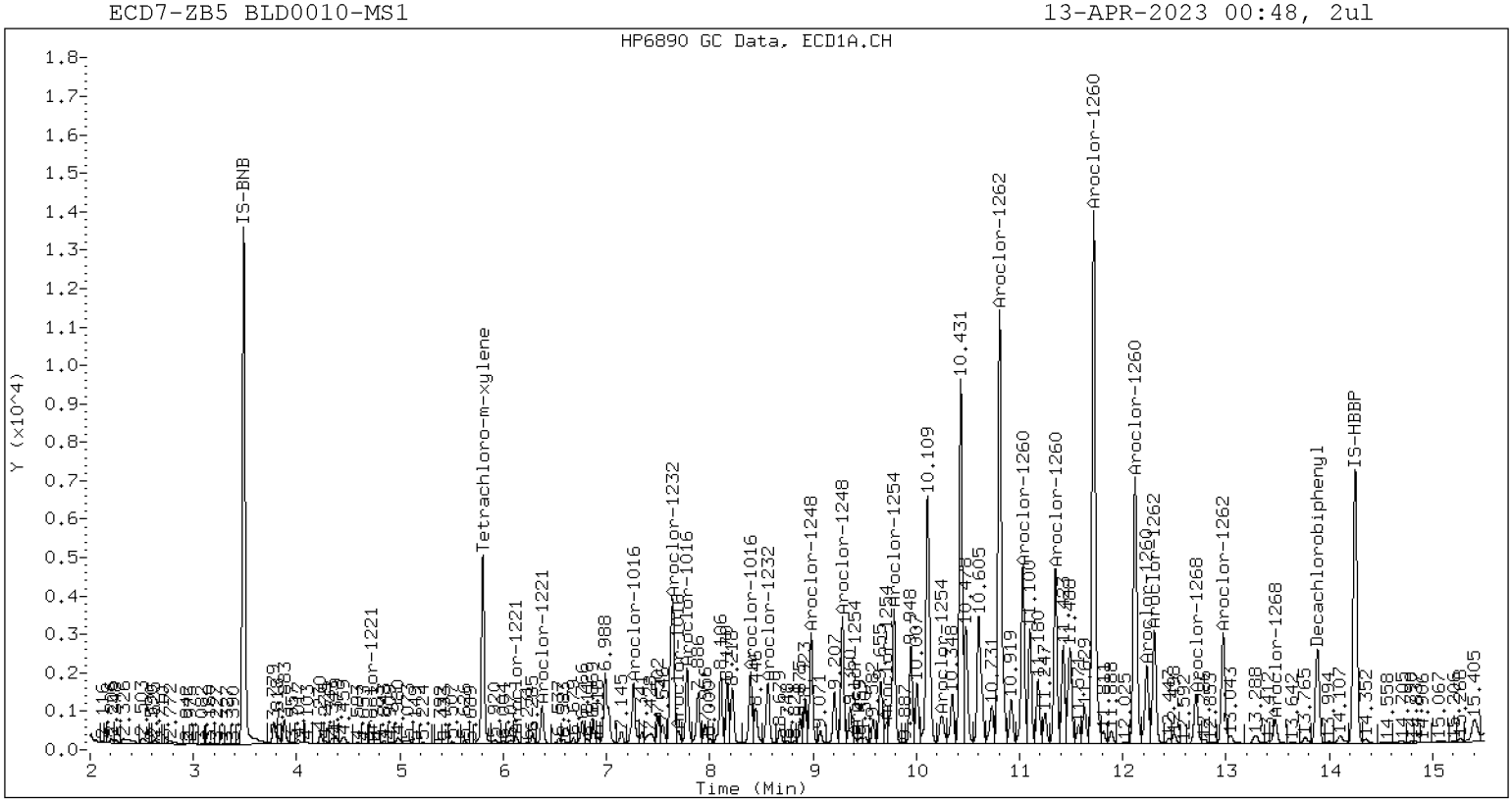
Total PCB Area Col2 (5.793 - 14.023) = 5798003 Col2 Total PCB = 1.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

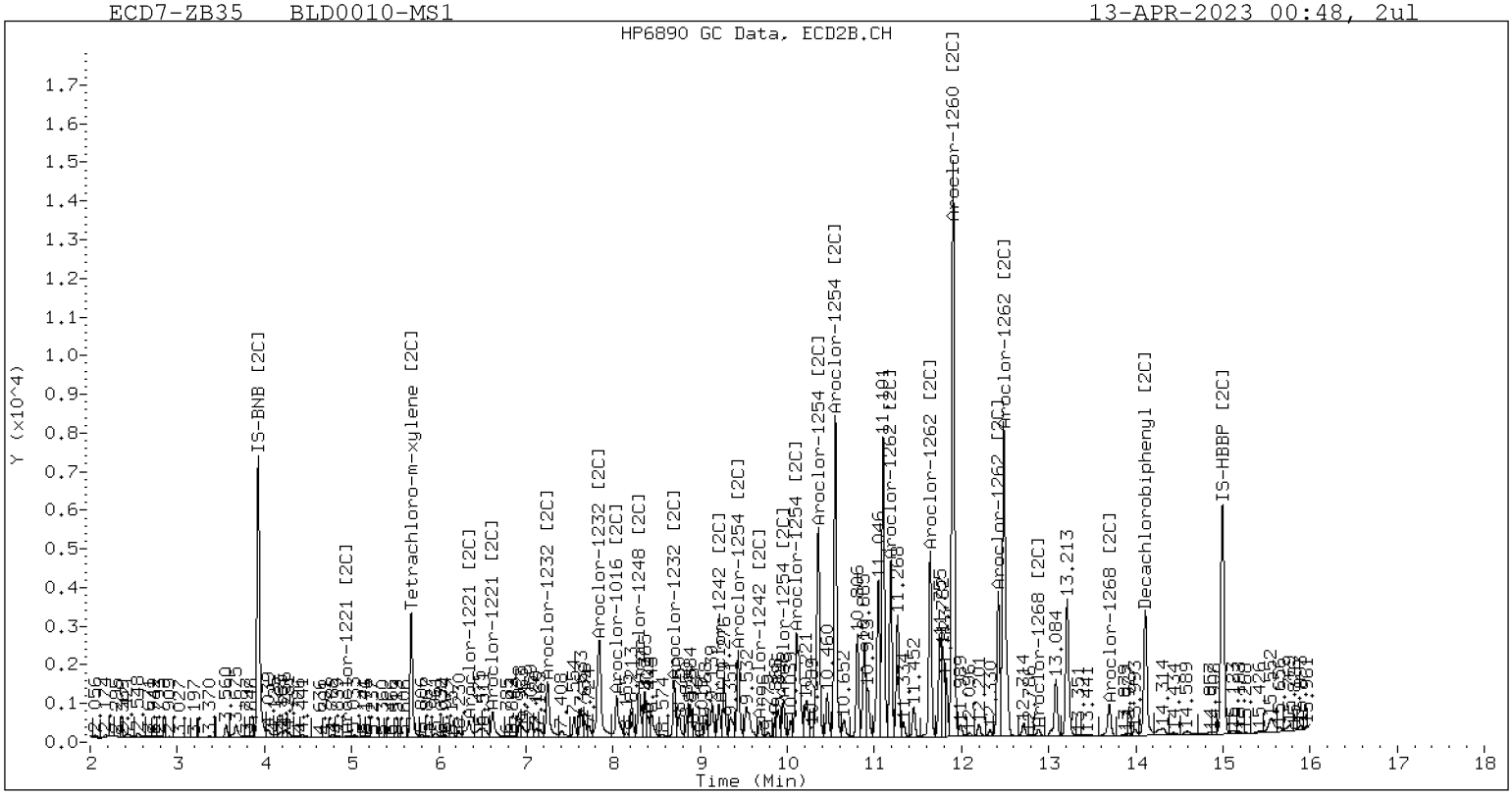
PCB Dual Column Chromatograms

ECD7-ZB5 BLD0010-MS1 13-APR-2023 00:48, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BLD0010-MS1 13-APR-2023 00:48, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230412.b/04122348ECD7.D
Data file 2: /230412.b/230412.b/04122348ECD7.D
Method: \\target\share\chem4\ecd7.i\230412.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLD0010-MSD1
Client ID:
Injection Date: 13-APR-2023 01:09
Report Date: 04/13/2023 09:59
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.802	-0.009	194402	5.683	-0.009	135329	23.9	27.8	15.2	Tetrachloro-m-xylene
13.884	-0.014	129008	14.110	-0.013	176184	34.8	34.9	0.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	544630	-19.2
Hexabromobiphenyl	1429847	376316	-73.7 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	331463	5.1
Hexabromobiphenyl	513946	331186	-35.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.264	-0.012	67670	327.1	1	7.250	-0.009	73575	379.2
Aroclor-1016	2	7.697	0.016	11539	18.3	2	7.844	-0.041	158891	403.8
Aroclor-1016	3	7.780	-0.027	72485	235.5	3	8.044	-0.050	58831	331.0
Aroclor-1016	4	8.395	-0.023	73971	371.7	4	8.299	-0.020	54598	391.6
Total Col1Ave (4 peaks):					238.2	Total Col2Ave (4 peaks):				376.4 RPD = 45*
Corrected Ave (3 peaks):					193.6	Corrected Ave (3 peaks):				367.3 RPD = 62*
Aroclor-1221	1	4.729	-0.002	234	4.8	1	4.944	-0.012	2338	74.5
Aroclor-1221	2	6.126	-0.006	8589	98.5	2	6.348	0.052	30480	513.2
Aroclor-1221	3	6.376	-0.006	39177	193.4	3	6.618	-0.004	35418	366.4
Total Col1Ave (3 peaks):					98.9	Total Col2Ave (3 peaks):				318.0 RPD = 105*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.729	-0.002	234	8.0	1	4.944	-0.012	2338	137.9
Aroclor-1232	2	6.126	-0.005	8589	148.4	2	7.250	-0.004	73575	873.0
Aroclor-1232	3	7.642	-0.014	203149	775.5	3	7.844	-0.017	158891	942.9
Aroclor-1232	4	8.565	-0.016	70920	637.0	4	8.705	-0.010	54805	1130.1
Total Col1Ave (4 peaks):					392.3	Total Col2Ave (4 peaks):				771.0 RPD = 65*
Corrected Ave (3 peaks):					264.5	Corrected Ave (3 peaks):				651.3 RPD = 84*
Aroclor-1242	1	7.264	-0.012	67670	400.9	1	7.250	-0.010	73575	477.8
Aroclor-1242	2	7.697	0.011	11539	22.5	2	7.844	-0.045	158891	490.8
Aroclor-1242	3	8.395	-0.023	73971	463.8	3	9.216	0.009	33686	334.4
Aroclor-1242	4	8.565	-0.036	70920	300.8	4	9.687	0.051	17228	140.4
Total Col1Ave (4 peaks):					297.0	Total Col2Ave (4 peaks):				360.8 RPD = 19
Corrected Ave (3 peaks):					241.4	Corrected Ave (3 peaks):				317.5 RPD = 27
Aroclor-1248	1	8.395	-0.023	73971	278.4	1	8.299	-0.017	54598	345.0
Aroclor-1248	2	8.565	-0.034	70920	210.0	2	8.705	-0.018	54805	334.9
Aroclor-1248	3	8.982	-0.019	111187	174.5	3	9.216	0.027	33686	178.9
Aroclor-1248	4	9.285	-0.025	118844	366.3	4	9.687	0.070	17228	76.2
Total Col1Ave (4 peaks):					257.3	Total Col2Ave (4 peaks):				233.7 RPD = 10
Corrected Ave (3 peaks):					220.9	Corrected Ave (3 peaks):				196.7 RPD = 12
Aroclor-1254	1	9.285	-0.030	118844	217.3	1	9.437	-0.027	81608	323.9
Aroclor-1254	2	9.403	0.008	6105	24.8	2	9.956	-0.030	36384	179.5
Aroclor-1254	3	9.710	0.023	19758	56.2	3	10.105	-0.039	159205	363.1
Aroclor-1254	4	9.785	-0.045	154321	225.7	4	10.356	-0.035	209974	491.2
Aroclor-1254	5	10.240	0.028	38877	90.7	5	10.552	-0.031	191667	736.4
Total Col1Ave (5 peaks):					123.0	Total Col2Ave (5 peaks):				418.8 RPD = 109*
Corrected Ave (4 peaks):					97.3	Corrected Ave (4 peaks):				339.4 RPD = 111*
Aroclor-1260	1	11.032	-0.024	109225	806.8	1	11.641	-0.022	118255	607.2
Aroclor-1260	2	11.347	-0.026	98954	699.6	2	11.903	-0.028	272090	547.5
Aroclor-1260	3	11.717	-0.034	264506	705.1	3	12.422	-0.023	88094	667.9
Aroclor-1260	4	12.118	-0.041	140503	743.8	4	12.486	-0.028	180300	538.2
Aroclor-1260	5	12.232	-0.023	57368	705.5	NS	---			----
Total Col1Ave (5 peaks):					732.2	Total Col2Ave (4 peaks):				590.2 RPD = 21
Corrected Ave (4 peaks):					713.5	Corrected Ave (3 peaks):				564.3 RPD = 23
Aroclor-1262	1	10.806	-0.023	301676	2613.3	1	11.187	-0.013	101083	357.5
Aroclor-1262	2	12.232	-0.012	57368	305.4	2	11.641	-0.011	118255	491.0
Aroclor-1262	3	12.306	-0.012	69745	345.4	3	12.422	-0.012	88094	322.4
Aroclor-1262	4	12.972	-0.016	78925	427.6	4	12.486	-0.016	180300	421.2
Total Col1Ave (4 peaks):					922.9	Total Col2Ave (4 peaks):				398.0 RPD = 79*
Corrected Ave (3 peaks):					359.5	Corrected Ave (3 peaks):				367.0 RPD = 2
Aroclor-1268	1	12.232	-0.015	57368	119.0	1	12.422	-0.010	88094	132.1
Aroclor-1268	2	12.306	-0.010	69745	146.1	2	12.486	-0.014	180300	251.5
Aroclor-1268	3	12.708	0.009	41515	101.6	3	12.884	-0.008	9259	15.1
Aroclor-1268	4	13.477	-0.013	23146	17.2	4	13.697	-0.012	29557	15.1
Total Col1Ave (4 peaks):					96.0	Total Col2Ave (4 peaks):				103.5 RPD = 8

Corrected Ave (3 peaks): 79.3 Corrected Ave (3 peaks): 54.1 RPD = 38

Total PCB Area Col1 (5.911 - 13.799) = 4284312 Col1 Total PCB = 0.7 ppm*

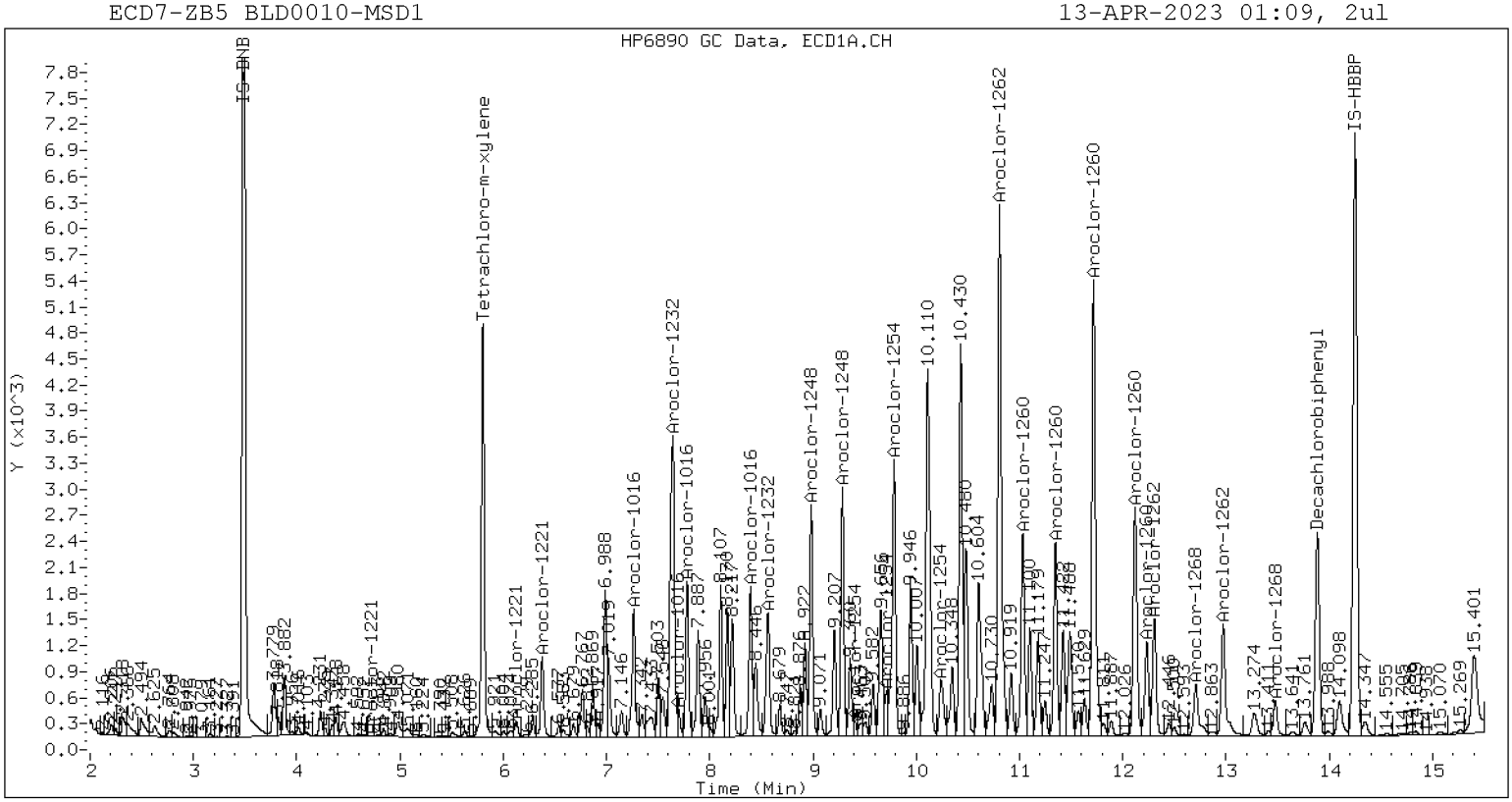
Total PCB Area Col2 (5.793 - 14.023) = 3687371 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

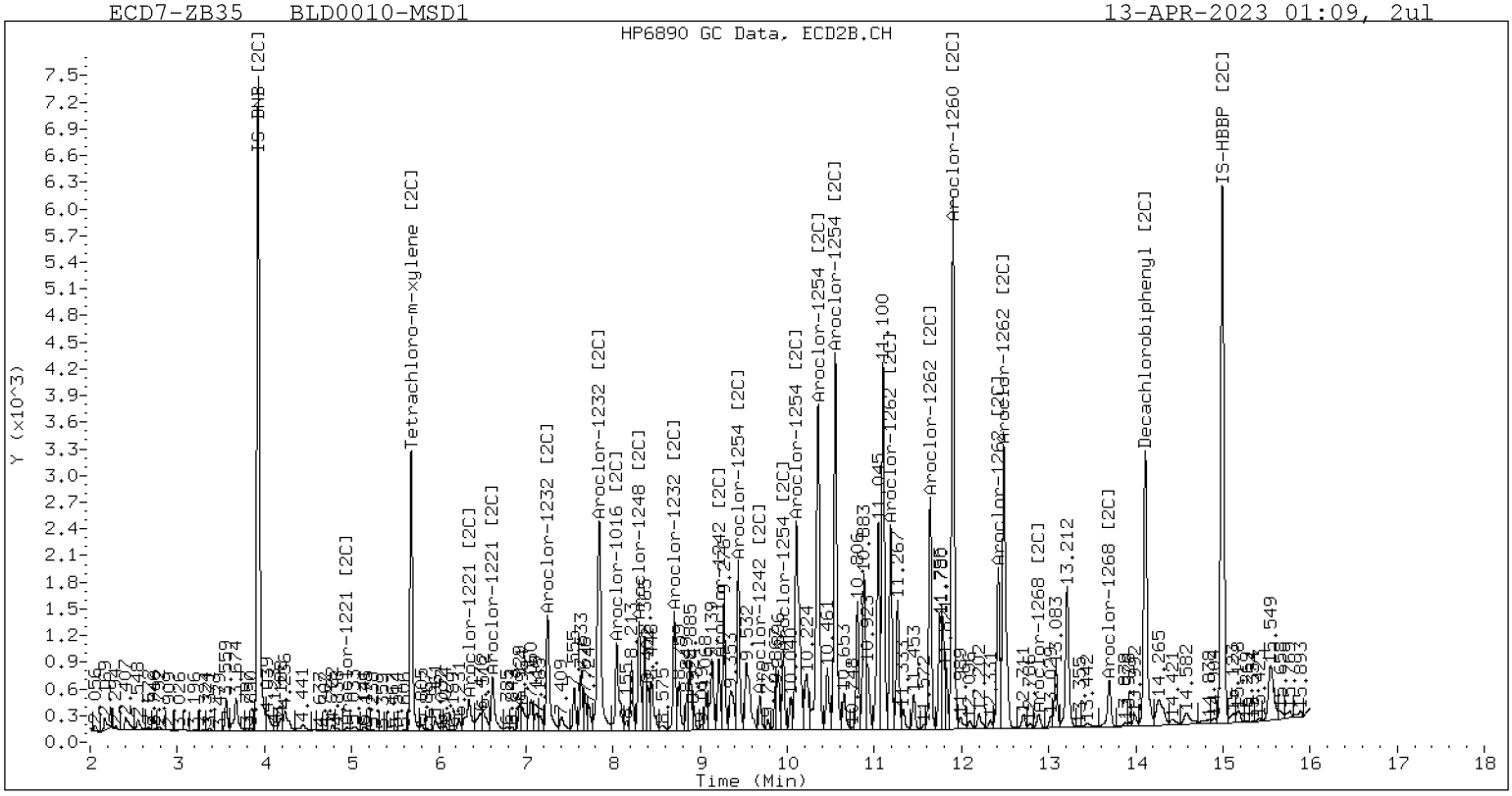
PCB Dual Column Chromatograms

ECD7-ZB5 BLD0010-MSD1 13-APR-2023 01:09, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BLD0010-MSD1 13-APR-2023 01:09, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BLD0010-SRM1
Batch: BLD0010
Initial/Final: 2.5 g / 2.5 mL
Preparation: EPA 3546 (Microwave)
Analyzed: 04/12/2023 22:44
Standard ID: K003527
Expires: 04/12/2023
Standard Lot#: PSRM0150
Description: Puget Sound reference-SRM

ANALYTE	TRUE (ug/kg wet)	FOUND (ug/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Aroclor 1260	108.00	117	2.9	20.0		108	38 - 167
Aroclor 1260 [2C]	108.00	109	2.9	20.0		101	38 - 167

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230412.b/04122341ECD7.D
Data file 2: /230412.b/230412.b/04122341ECD7.D
Method: \\target\share\chem4\ecd7.i\230412.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLD0010-SRM1
Client ID:
Injection Date: 12-APR-2023 22:44
Report Date: 04/13/2023 09:59
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.807	-0.004	260168	5.691	-0.002	153706	29.8	28.9	3.0	Tetrachloro-m-xylene
13.889	-0.009	275785	14.116	-0.007	249573	33.0	32.0	3.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	584983	-13.2
Hexabromobiphenyl	1429847	848919	-40.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	362414	15.0
Hexabromobiphenyl	513946	512290	-0.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.240	-0.036	33680	151.6	1	7.278	0.020	19703	92.9
Aroclor-1016	2	7.704	0.024	16848	24.9	2	7.901	0.017	16830	39.1
Aroclor-1016	3	7.806	-0.001	7958	24.1	3	8.097	0.003	5115	26.3
Aroclor-1016	4	8.407	-0.011	10771	50.4	4	8.308	-0.011	6241	40.9
Total Col1Ave (4 peaks):					62.7	Total Col2Ave (4 peaks):				49.8 RPD = 23
Corrected Ave (3 peaks):					33.1	Corrected Ave (3 peaks):				35.5 RPD = 7
Aroclor-1221	1	4.781	0.050	307	5.9	1	4.941	-0.015	1660	48.4
Aroclor-1221	2	6.084	-0.048	13522	144.3	2	6.243	-0.053	8664	133.4
Aroclor-1221	3	6.397	0.014	3964	18.2	3	6.642	0.020	4105	38.8
Total Col1Ave (3 peaks):					56.1	Total Col2Ave (3 peaks):				73.6 RPD = 27
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.781	0.051	307	9.8	1	4.941	-0.015	1660	89.5
Aroclor-1232	2	6.084	-0.047	13522	217.6	2	7.278	0.024	19703	213.8
Aroclor-1232	3	7.657	0.001	8656	30.8	3	7.901	0.041	16830	91.3
Aroclor-1232	4	8.578	-0.003	6428	53.8	4	8.715	0.000	4216	79.5
Total Col1Ave (4 peaks):					78.0	Total Col2Ave (4 peaks):				118.5 RPD = 41*
Corrected Ave (3 peaks):					31.4	Corrected Ave (3 peaks):				86.8 RPD = 94*
Aroclor-1242	1	7.240	-0.036	33680	185.8	1	7.278	0.019	19703	117.0
Aroclor-1242	2	7.704	0.019	16848	30.6	2	7.901	0.012	16830	47.5
Aroclor-1242	3	8.407	-0.012	10771	62.9	3	9.163	-0.044	5435	49.3
Aroclor-1242	4	8.578	-0.022	6428	25.4	4	9.580	-0.056	5151	38.4
Total Col1Ave (4 peaks):					76.2	Total Col2Ave (4 peaks):				63.1 RPD = 19
Corrected Ave (3 peaks):					39.6	Corrected Ave (3 peaks):				45.1 RPD = 13
Aroclor-1248	1	8.407	-0.011	10771	37.7	1	8.308	-0.007	6241	36.1
Aroclor-1248	2	8.578	-0.021	6428	17.7	2	8.715	-0.008	4216	23.6
Aroclor-1248	3	8.992	-0.008	23309	34.1	3	9.163	-0.026	5435	26.4
Aroclor-1248	4	9.296	-0.014	32386	92.9	4	9.580	-0.037	5151	20.8
Total Col1Ave (4 peaks):					45.6	Total Col2Ave (4 peaks):				26.7 RPD = 52*
Corrected Ave (3 peaks):					29.8	Corrected Ave (3 peaks):				23.6 RPD = 23
Aroclor-1254	1	9.296	-0.019	32386	55.1	1	9.450	-0.015	18502	67.2
Aroclor-1254	2	9.372	-0.023	12436	47.1	2	9.968	-0.017	9157	41.3
Aroclor-1254	3	9.669	-0.018	18814	49.8	3	10.130	-0.014	37090	77.4
Aroclor-1254	4	9.800	-0.031	37192	50.6	4	10.368	-0.022	46916	100.4
Aroclor-1254	5	10.258	0.046	18364	39.9	5	10.565	-0.018	48708	171.2
Total Col1Ave (5 peaks):					48.5	Total Col2Ave (5 peaks):				91.5 RPD = 61*
Corrected Ave (4 peaks):					46.9	Corrected Ave (4 peaks):				71.6 RPD = 42*
Aroclor-1260	1	11.040	-0.015	41145	134.7	1	11.652	-0.011	34510	114.6
Aroclor-1260	2	11.354	-0.020	31993	100.3	2	11.914	-0.017	78366	101.9
Aroclor-1260	3	11.728	-0.023	97955	115.7	3	12.432	-0.013	24981	122.4
Aroclor-1260	4	12.131	-0.028	52597	123.4	4	12.497	-0.017	50595	97.6
Aroclor-1260	5	12.240	-0.015	20171	110.0	NS	---			----
Total Col1Ave (5 peaks):					116.8	Total Col2Ave (4 peaks):				109.1 RPD = 7
Corrected Ave (4 peaks):					112.3	Corrected Ave (3 peaks):				104.7 RPD = 7
Aroclor-1262	1	10.820	-0.009	91562	351.6	1	11.198	-0.002	31635	72.3
Aroclor-1262	2	12.240	-0.004	20171	47.6	2	11.652	0.001	34510	92.6
Aroclor-1262	3	12.315	-0.004	25032	54.9	3	12.432	-0.002	24981	59.1
Aroclor-1262	4	12.982	-0.006	25797	62.0	4	12.497	-0.005	50595	76.4
Total Col1Ave (4 peaks):					129.0	Total Col2Ave (4 peaks):				75.1 RPD = 53*
Corrected Ave (3 peaks):					54.8	Corrected Ave (3 peaks):				69.3 RPD = 23
Aroclor-1268	1	12.240	-0.006	20171	18.5	1	12.432	0.000	24981	24.2
Aroclor-1268	2	12.315	-0.002	25032	23.2	2	12.497	-0.003	50595	45.6
Aroclor-1268	3	12.719	0.020	12416	13.5	3	12.891	-0.001	1643	1.7
Aroclor-1268	4	13.485	-0.005	5980	2.0	4	13.704	-0.005	7989	2.6
Total Col1Ave (4 peaks):					14.3	Total Col2Ave (4 peaks):				18.6 RPD = 26

Corrected Ave (3 peaks): 11.3 Corrected Ave (3 peaks): 9.5 RPD = 17

Total PCB Area Col1 (5.911 - 13.799) = 1395185 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.793 - 14.023) = 965142 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

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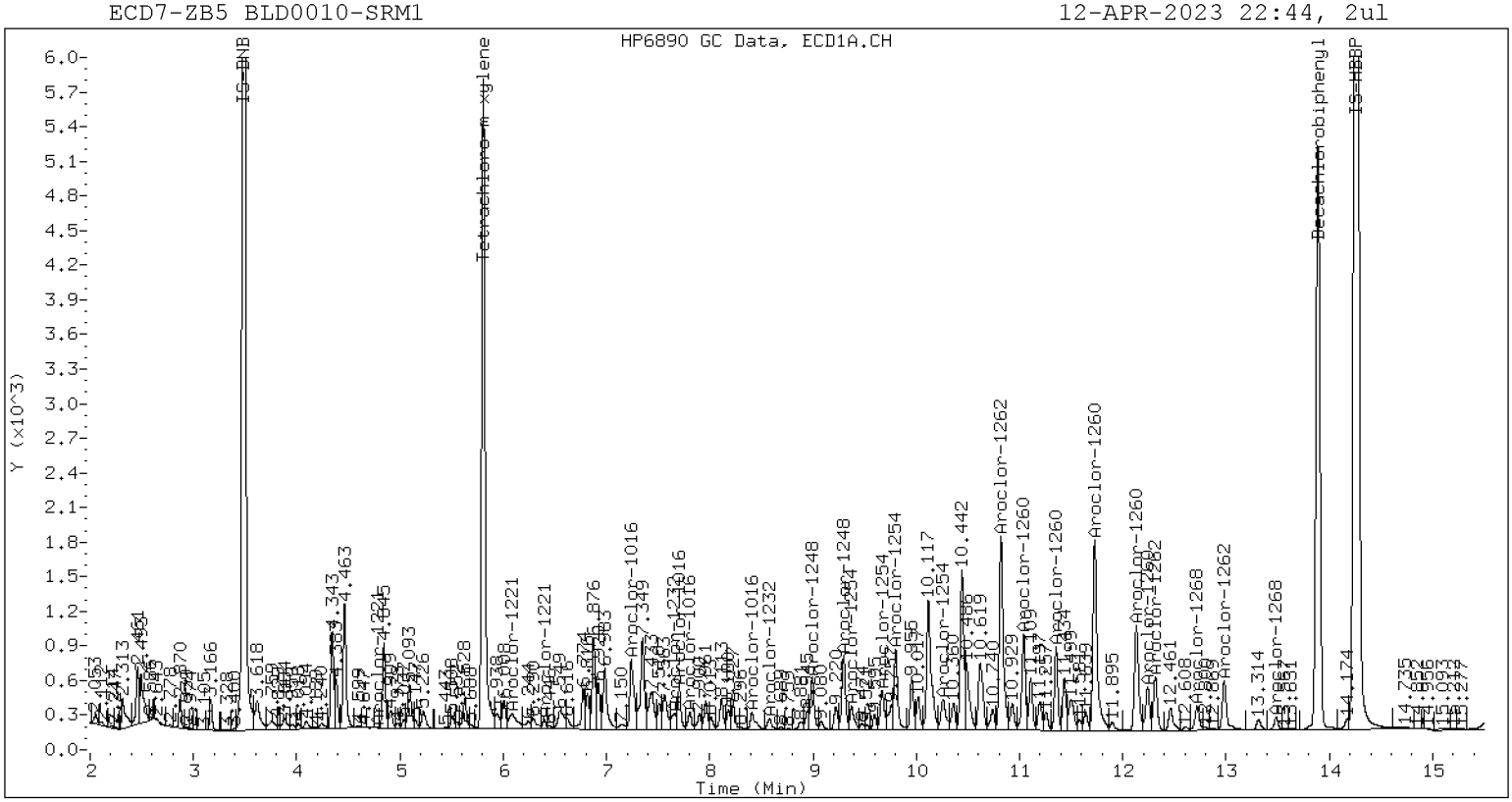

ZB-5 Manual Integration: NO

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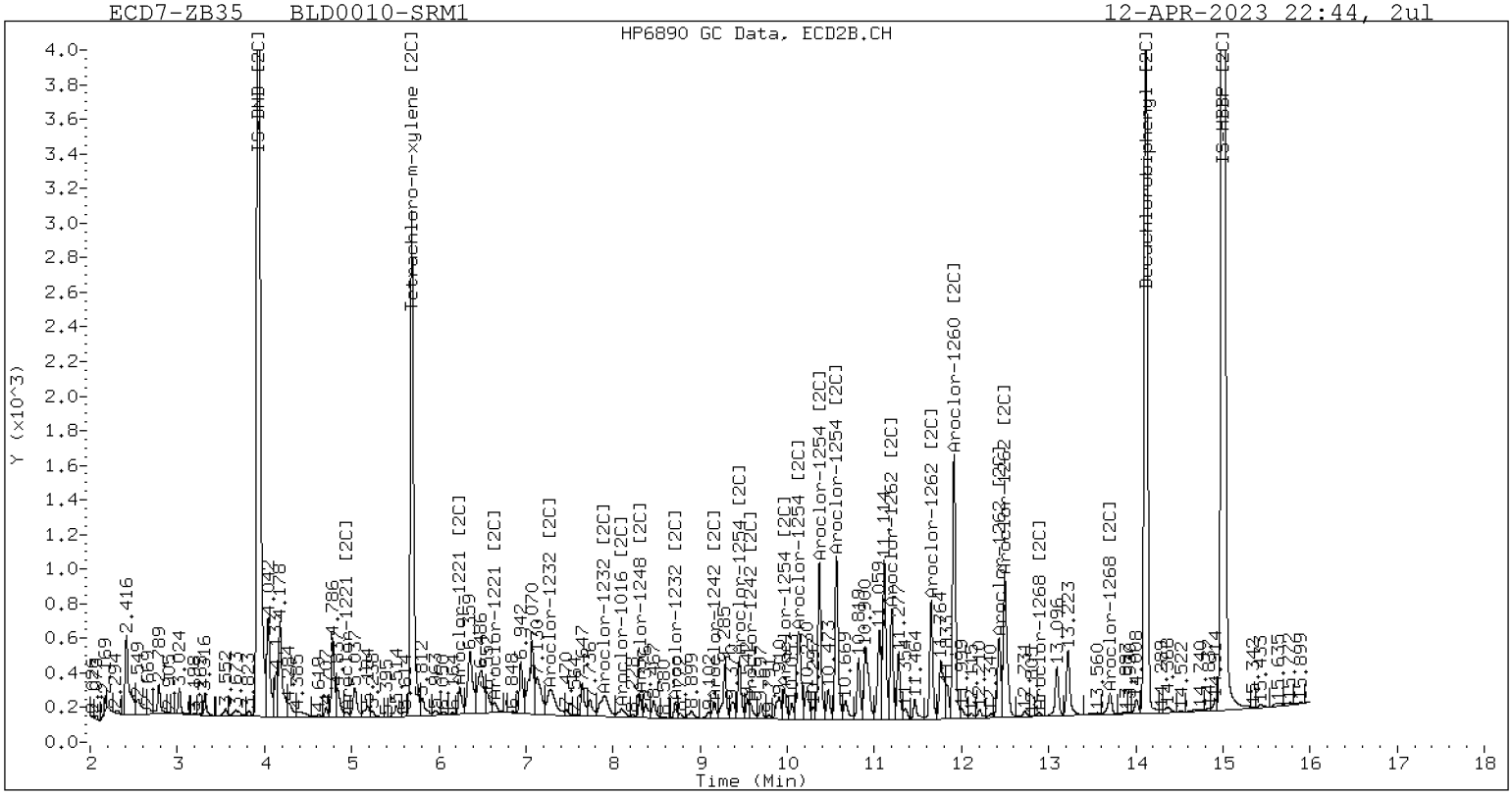


ZB-35 Manual Integration: NO

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GB00069	Instrument:	ECD7
Calibration Date:	02/24/2023	Column (1):	ZB5

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor 1016	250	0.0511017	20	0.0514466	50	5.107478E-02	1000	4.502727E-02	100	5.036259E-02	500	0.0471841
Aroclor-1016 (1)	250	0.031405	20	3.172321E-02	50	3.253176E-02	1000	2.667138E-02	100	3.141686E-02	500	2.856283E-02
Aroclor-1016 (2)	250	9.848704E-02	20	9.239415E-02	50	9.245774E-02	1000	8.848657E-02	100	9.221759E-02	500	0.0917416
Aroclor-1016 (3)	250	4.393471E-02	20	5.165382E-02	50	5.037363E-02	1000	3.720718E-02	100	4.822959E-02	500	3.990906E-02
Aroclor-1016 (4)	250	3.058004E-02	20	3.001523E-02	50	2.893599E-02	1000	2.774395E-02	100	2.958631E-02	500	2.852291E-02
Aroclor 1260	250	4.264611E-02	20	3.933745E-02	50	3.914748E-02	1000	0.0377098	100	3.888069E-02	500	3.753326E-02
Aroclor-1260 (1)	250	3.096387E-02	20	2.926415E-02	50	2.920486E-02	1000	2.746159E-02	100	2.841034E-02	500	2.736642E-02
Aroclor-1260 (2)	250	3.291004E-02	20	2.966791E-02	50	3.006192E-02	1000	2.856573E-02	100	3.010757E-02	500	2.910054E-02
Aroclor-1260 (3)	250	8.575373E-02	20	8.087657E-02	50	8.045158E-02	1000	7.674417E-02	100	7.953737E-02	500	7.514663E-02
Aroclor-1260 (4)	250	4.484933E-02	20	3.904963E-02	50	3.886754E-02	1000	3.922291E-02	100	3.955346E-02	500	3.941669E-02
Aroclor-1260 (5)	250	1.875356E-02	20	1.782901E-02	50	1.715148E-02	1000	1.655457E-02	100	1.679471E-02	500	1.663603E-02
Decachlorobiphenyl	40	0.7880759	3.2	0.8290115	8	0.8055828	160	0.797423	16	0.7758675	80	0.7312517
Tetrachlorometaxylene	40	1.205085	3.2	1.168271	8	1.244015	160	1.241136	16	1.185465	80	1.122954

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GB00069	Instrument:	ECD7
Calibration Date:	02/24/2023	Column (1):	ZB5

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor 1221							250	1.657582E-02				
Aroclor-1221 (1)							250	7.164712E-03				
Aroclor-1221 (2)							250	0.0128135				
Aroclor-1221 (3)							250	2.974924E-02				
Aroclor 1232									250	1.690391E-02		
Aroclor-1232 (1)									250	4.285984E-03		
Aroclor-1232 (2)									250	8.499602E-03		
Aroclor-1232 (3)									250	3.847671E-02		
Aroclor-1232 (4)									250	1.635336E-02		
Aroclor 1242	250	3.953397E-02										
Aroclor-1242 (1)	250	2.479209E-02										
Aroclor-1242 (2)	250	7.528986E-02										
Aroclor-1242 (3)	250	2.342574E-02										
Aroclor-1242 (4)	250	3.462819E-02										
Aroclor 1248			250	5.747549E-02								
Aroclor-1248 (1)			250	3.903293E-02								
Aroclor-1248 (2)			250	0.0496149								
Aroclor-1248 (3)			250	9.360202E-02								
Aroclor-1248 (4)			250	4.765213E-02								
Aroclor 1254					250	6.629494E-02						
Aroclor-1254 (1)					250	8.033306E-02						
Aroclor-1254 (2)					250	0.0361302						
Aroclor-1254 (3)					250	5.164705E-02						
Aroclor-1254 (4)					250	0.100423						
Aroclor-1254 (5)					250	6.294139E-02						
Aroclor 1262							250	3.665955E-02				
Aroclor-1262 (1)							250	2.454122E-02				
Aroclor-1262 (2)							250	3.993338E-02				

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GB00069	Instrument:	ECD7
Calibration Date:	02/24/2023	Column (1):	ZB5

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor-1262 (3)							250	4.292945E-02				
Aroclor-1262 (4)							250	3.923413E-02				
Aroclor 1268									250	0.1442124		
Aroclor-1268 (1)									250	0.102504		
Aroclor-1268 (2)									250	0.1015072		
Aroclor-1268 (3)									250	8.685666E-02		
Aroclor-1268 (4)									250	0.2859818		

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GB00069	Instrument:	ECD7
Calibration Date:	02/24/2023	Column (1):	ZB5

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor 1016	4.936617E-02	5.3			RSD (20)	
Aroclor-1016 (1)	3.038517E-02	7.4			RSD (20)	
Aroclor-1016 (2)	9.263078E-02	3.5			RSD (20)	
Aroclor-1016 (3)	0.045218	12.9			RSD (20)	
Aroclor-1016 (4)	2.923074E-02	3.5			RSD (20)	
Aroclor 1221		0.0			RSD (20)	
Aroclor-1221 (1)		0.0			RSD (20)	
Aroclor-1221 (2)		0.0			RSD (20)	
Aroclor-1221 (3)		0.0			RSD (20)	
Aroclor 1232		0.0			RSD (20)	
Aroclor-1232 (1)		0.0			RSD (20)	
Aroclor-1232 (2)		0.0			RSD (20)	
Aroclor-1232 (3)		0.0			RSD (20)	
Aroclor-1232 (4)		0.0			RSD (20)	
Aroclor 1242		0.0			RSD (20)	
Aroclor-1242 (1)		0.0			RSD (20)	
Aroclor-1242 (2)		0.0			RSD (20)	
Aroclor-1242 (3)		0.0			RSD (20)	
Aroclor-1242 (4)		0.0			RSD (20)	
Aroclor 1248		0.0			RSD (20)	
Aroclor-1248 (1)		0.0			RSD (20)	
Aroclor-1248 (2)		0.0			RSD (20)	
Aroclor-1248 (3)		0.0			RSD (20)	
Aroclor-1248 (4)		0.0			RSD (20)	
Aroclor 1254		0.0			RSD (20)	
Aroclor-1254 (1)		0.0			RSD (20)	
Aroclor-1254 (2)		0.0			RSD (20)	
Aroclor-1254 (3)		0.0			RSD (20)	
Aroclor-1254 (4)		0.0			RSD (20)	
Aroclor-1254 (5)		0.0			RSD (20)	
Aroclor 1260	3.920913E-02	4.7			RSD (20)	

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GB00069	Instrument:	ECD7
Calibration Date:	02/24/2023	Column (1):	ZB5

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor-1260 (1)	2.877854E-02	4.7			RSD (20)	
Aroclor-1260 (2)	3.006895E-02	5.0			RSD (20)	
Aroclor-1260 (3)	7.975167E-02	4.6			RSD (20)	
Aroclor-1260 (4)	4.015993E-02	5.8			RSD (20)	
Aroclor-1260 (5)	1.728656E-02	5.0			RSD (20)	
Aroclor 1262		0.0			RSD (20)	
Aroclor-1262 (1)		0.0			RSD (20)	
Aroclor-1262 (2)		0.0			RSD (20)	
Aroclor-1262 (3)		0.0			RSD (20)	
Aroclor-1262 (4)		0.0			RSD (20)	
Aroclor 1268		0.0			RSD (20)	
Aroclor-1268 (1)		0.0			RSD (20)	
Aroclor-1268 (2)		0.0			RSD (20)	
Aroclor-1268 (3)		0.0			RSD (20)	
Aroclor-1268 (4)		0.0			RSD (20)	
Decachlorobiphenyl	0.7878687	4.2			RSD (20)	
Tetrachlorometaxylene	1.194488	3.9			RSD (20)	

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GB00069	Instrument:	ECD7
Calibration Date:	02/24/2023	Column (2):	ZB35

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor 1016 [2C]	250	0.0571297	20	5.099991E-02	50	0.0573721	1000	5.075893E-02	100	5.836783E-02	500	5.288542E-02
Aroclor-1016 (1) [2C]	250	4.732763E-02	20	5.070692E-02	50	5.021603E-02	1000	4.080107E-02	100	4.868029E-02	500	4.325569E-02
Aroclor-1016 (2) [2C]	250	0.1025919	20	8.142537E-02	50	9.407053E-02	1000	9.361548E-02	100	0.1015897	500	9.651233E-02
Aroclor-1016 (3) [2C]	250	4.410181E-02	20	4.005508E-02	50	4.718351E-02	1000	3.925581E-02	100	4.613223E-02	500	4.062487E-02
Aroclor-1016 (4) [2C]	250	3.449742E-02	20	3.181228E-02	50	3.801833E-02	1000	0.0293633	100	0.0370691	500	3.114879E-02
Aroclor 1260 [2C]	250	7.266587E-02	20	0.0760446	50	7.181489E-02	1000	0.0636872	100	6.942709E-02	500	6.617305E-02
Aroclor-1260 (1) [2C]	250	4.801376E-02	20	5.286013E-02	50	4.911343E-02	1000	4.201242E-02	100	4.695569E-02	500	4.328842E-02
Aroclor-1260 (2) [2C]	250	0.1266443	20	0.1297611	50	0.1243096	1000	0.1054494	100	0.1209452	500	0.1132043
Aroclor-1260 (3) [2C]	250	3.207621E-02	20	3.524009E-02	50	3.146502E-02	1000	0.0319805	100	2.936945E-02	500	3.102287E-02
Aroclor-1260 (4) [2C]	250	8.392913E-02	20	8.631709E-02	50	8.237154E-02	1000	7.530648E-02	100	0.080438	500	7.717658E-02
Decachlorobiphenyl [2C]	40	1.310398	3.2	1.170661	8	1.20406	160	1.207975	16	1.205489	80	1.211045
Tetrachlorometaxylene [2C]	40	1.219073	3.2	1.21526	8	1.195453	160	1.111394	16	1.175548	80	1.125598

INITIAL CALIBRATION DATA
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GB00069	Instrument:	ECD7
Calibration Date:	02/24/2023	Column (2):	ZB35

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor 1221 [2C]							250	1.507982E-02				
Aroclor-1221 (1) [2C]							250	7.573277E-03				
Aroclor-1221 (2) [2C]							250	0.0143332				
Aroclor-1221 (3) [2C]							250	2.333296E-02				
Aroclor 1232 [2C]									250	1.920227E-02		
Aroclor-1232 (1) [2C]									250	4.09321E-03		
Aroclor-1232 (2) [2C]									250	2.034072E-02		
Aroclor-1232 (3) [2C]									250	4.067023E-02		
Aroclor-1232 (4) [2C]									250	1.170493E-02		
Aroclor 1242 [2C]	250	4.230924E-02										
Aroclor-1242 (1) [2C]	250	3.716893E-02										
Aroclor-1242 (2) [2C]	250	7.813249E-02										
Aroclor-1242 (3) [2C]	250	2.431205E-02										
Aroclor-1242 (4) [2C]	250	0.0296235										
Aroclor 1248 [2C]			250	4.442703E-02								
Aroclor-1248 (1) [2C]			250	3.819713E-02								
Aroclor-1248 (2) [2C]			250	3.949349E-02								
Aroclor-1248 (3) [2C]			250	4.544987E-02								
Aroclor-1248 (4) [2C]			250	5.456762E-02								
Aroclor 1254 [2C]					250	0.0763106						
Aroclor-1254 (1) [2C]					250	6.080523E-02						
Aroclor-1254 (2) [2C]					250	4.891616E-02						
Aroclor-1254 (3) [2C]					250	0.1058376						
Aroclor-1254 (4) [2C]					250	0.103175						
Aroclor-1254 (5) [2C]					250	6.281905E-02						
Aroclor 1262 [2C]							250	7.397596E-02				
Aroclor-1262 (1) [2C]							250	6.830764E-02				
Aroclor-1262 (2) [2C]							250	5.817803E-02				

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GB00069	Instrument:	ECD7
Calibration Date:	02/24/2023	Column (2):	ZB35

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor-1262 (3) [2C]							250	6.600951E-02				
Aroclor-1262 (4) [2C]							250	0.1034087				
Aroclor 1268 [2C]									250	0.2386862		
Aroclor-1268 (1) [2C]									250	0.1610947		
Aroclor-1268 (2) [2C]									250	0.1731794		
Aroclor-1268 (3) [2C]									250	0.1478672		
Aroclor-1268 (4) [2C]									250	0.4726034		

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GB00069	Instrument:	ECD7
Calibration Date:	02/24/2023	Column (2):	ZB35

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor 1016 [2C]	5.458565E-02	6.3			RSD (20)	
Aroclor-1016 (1) [2C]	4.683127E-02	8.5			RSD (20)	
Aroclor-1016 (2) [2C]	9.496755E-02	8.0			RSD (20)	
Aroclor-1016 (3) [2C]	4.289222E-02	7.9			RSD (20)	
Aroclor-1016 (4) [2C]	3.365154E-02	10.3			RSD (20)	
Aroclor 1221 [2C]		0.0			RSD (20)	
Aroclor-1221 (1) [2C]		0.0			RSD (20)	
Aroclor-1221 (2) [2C]		0.0			RSD (20)	
Aroclor-1221 (3) [2C]		0.0			RSD (20)	
Aroclor 1232 [2C]		0.0			RSD (20)	
Aroclor-1232 (1) [2C]		0.0			RSD (20)	
Aroclor-1232 (2) [2C]		0.0			RSD (20)	
Aroclor-1232 (3) [2C]		0.0			RSD (20)	
Aroclor-1232 (4) [2C]		0.0			RSD (20)	
Aroclor 1242 [2C]		0.0			RSD (20)	
Aroclor-1242 (1) [2C]		0.0			RSD (20)	
Aroclor-1242 (2) [2C]		0.0			RSD (20)	
Aroclor-1242 (3) [2C]		0.0			RSD (20)	
Aroclor-1242 (4) [2C]		0.0			RSD (20)	
Aroclor 1248 [2C]		0.0			RSD (20)	
Aroclor-1248 (1) [2C]		0.0			RSD (20)	
Aroclor-1248 (2) [2C]		0.0			RSD (20)	
Aroclor-1248 (3) [2C]		0.0			RSD (20)	
Aroclor-1248 (4) [2C]		0.0			RSD (20)	
Aroclor 1254 [2C]		0.0			RSD (20)	
Aroclor-1254 (1) [2C]		0.0			RSD (20)	
Aroclor-1254 (2) [2C]		0.0			RSD (20)	
Aroclor-1254 (3) [2C]		0.0			RSD (20)	
Aroclor-1254 (4) [2C]		0.0			RSD (20)	
Aroclor-1254 (5) [2C]		0.0			RSD (20)	
Aroclor 1260 [2C]	6.996878E-02	6.4			RSD (20)	

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GB00069	Instrument:	ECD7
Calibration Date:	02/24/2023	Column (2):	ZB35

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor-1260 (1) [2C]	4.704064E-02	8.4			RSD (20)	
Aroclor-1260 (2) [2C]	0.1200523	7.6			RSD (20)	
Aroclor-1260 (3) [2C]	3.185902E-02	6.0			RSD (20)	
Aroclor-1260 (4) [2C]	8.092314E-02	5.1			RSD (20)	
Aroclor 1262 [2C]		0.0			RSD (20)	
Aroclor-1262 (1) [2C]		0.0			RSD (20)	
Aroclor-1262 (2) [2C]		0.0			RSD (20)	
Aroclor-1262 (3) [2C]		0.0			RSD (20)	
Aroclor-1262 (4) [2C]		0.0			RSD (20)	
Aroclor 1268 [2C]		0.0			RSD (20)	
Aroclor-1268 (1) [2C]		0.0			RSD (20)	
Aroclor-1268 (2) [2C]		0.0			RSD (20)	
Aroclor-1268 (3) [2C]		0.0			RSD (20)	
Aroclor-1268 (4) [2C]		0.0			RSD (20)	
Decachlorobiphenyl [2C]	1.218271	3.9			RSD (20)	
Tetrachlorometaxylene [2C]	1.173721	3.9			RSD (20)	

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLB0342

Instrument: ECD7
Calibration ID: GB00069

Printed: 2/28/2023 9:54:44AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLB0342-CAL1	QC		1		L000856	L000844		
SLB0342-CAL2	QC		2		L000859	L000844		
SLB0342-CAL3	QC		3		L000858	L000844		
SLB0342-CAL4	QC		4		L000731	L000844		
SLB0342-CAL5	QC		5		L000857	L000844		
SLB0342-CAL6	QC		6		L000855	L000844		
SLB0342-CAL7	QC		7		L000860	L000844		
SLB0342-CAL8	QC		8		L000861	L000844		
SLB0342-CAL9	QC		9		L000862	L000844		
SLB0342-CALA	QC		10		L000863	L000844		
SLB0342-CALB	QC		11		L000864	L000844		
SLB0342-SCV1	QC		12		L002065	L000844		
SLB0342-SCV2	QC		13		K007656	L000844		
SLB0342-SCV3	QC		14		L002066	L000844		
SLB0342-SCV4	QC		15		L002067	L000844		
SLB0342-SCV5	QC		16		L002068	L000844		
SLB0342-SCV6	QC		17		L002069	L000844		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	24-FEB-2023 10:51	02242301ECD7.D	1	IB	
2	24-FEB-2023 11:12	02242302ECD7.D	1	0.25PPMAR1660	
3	24-FEB-2023 11:33	02242303ECD7.D	1	0.02PPMAR1660	
4	24-FEB-2023 11:54	02242304ECD7.D	1	0.05PPMAR1660	
5	24-FEB-2023 12:15	02242305ECD7.D	1	1.0PPMAR1660	
6	24-FEB-2023 12:36	02242306ECD7.D	1	0.1PPMAR1660	
7	24-FEB-2023 12:57	02242307ECD7.D	1	0.5PPMAR1660	
8	24-FEB-2023 13:18	02242308ECD7.D	1	0.25PPMAR1242	
9	24-FEB-2023 13:39	02242309ECD7.D	1	0.25PPMAR1248	
10	24-FEB-2023 14:00	02242310ECD7.D	1	0.25PPMAR1254	
11	24-FEB-2023 14:21	02242311ECD7.D	1	0.25PPMAR2162	
12	24-FEB-2023 14:42	02242312ECD7.D	1	0.25PPMAR3268	
13	24-FEB-2023 15:03	02242313ECD7.D	1	AR1660SCV	
14	24-FEB-2023 15:24	02242314ECD7.D	1	AR1242SCV	
15	24-FEB-2023 15:45	02242315ECD7.D	1	AR1248SCV	
16	24-FEB-2023 16:06	02242316ECD7.D	1	AR1254SCV	
17	24-FEB-2023 16:27	02242317ECD7.D	1	AR2162SCV	
18	24-FEB-2023 16:48	02242318ECD7.D	1	AR3268SCV	
19	24-FEB-2023 17:09	02242319ECD7.D	1	DDTS	
20	24-FEB-2023 17:30	02242320ECD7.D	1	DDT BD	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b

ARI Job No.: IB Method: PCB.m Instrument: ecd7.i Date: 24-FEB-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1051	02242301ECD7.D	IB		1	NO MANUAL INTEGRATION
1112	02242302ECD7.D	0.25PPMAR1660		1	NO MANUAL INTEGRATION
1133	02242303ECD7.D	0.02PPMAR1660		1	NO MANUAL INTEGRATION
1154	02242304ECD7.D	0.05PPMAR1660		1	NO MANUAL INTEGRATION
1215	02242305ECD7.D	1.0PPMAR1660		1	NO MANUAL INTEGRATION
1236	02242306ECD7.D	0.1PPMAR1660		1	NO MANUAL INTEGRATION
1257	02242307ECD7.D	0.5PPMAR1660		1	NO MANUAL INTEGRATION
1318	02242308ECD7.D	0.25PPMAR1242		1	NO MANUAL INTEGRATION
1339	02242309ECD7.D	0.25PPMAR1248		1	NO MANUAL INTEGRATION
1400	02242310ECD7.D	0.25PPMAR1254		1	NO MANUAL INTEGRATION
1421	02242311ECD7.D	0.25PPMAR2162		1	NO MANUAL INTEGRATION
1442	02242312ECD7.D	0.25PPMAR3268		1	NO MANUAL INTEGRATION
1503	02242313ECD7.D	AR1660SCV		1	NO MANUAL INTEGRATION
1524	02242314ECD7.D	AR1242SCV		1	NO MANUAL INTEGRATION
1545	02242315ECD7.D	AR1248SCV		1	NO MANUAL INTEGRATION
1606	02242316ECD7.D	AR1254SCV		1	NO MANUAL INTEGRATION
1627	02242317ECD7.D	AR2162SCV		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1648	02242318ECD7.D	AR3268SCV		1	NO MANUAL INTEGRATION
1709	02242319ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1730	02242320ECD7.D	DDT BD		1	NO MANUAL INTEGRATION
1751	02242321ECD7.D			1	NO MANUAL INTEGRATION
1812	02242322ECD7.D			1	NO MANUAL INTEGRATION
1833	02242323ECD7.D			1	NO MANUAL INTEGRATION
1854	02242324ECD7.D			1	NO MANUAL INTEGRATION
1915	02242325ECD7.D			1	NO MANUAL INTEGRATION
1936	02242326ECD7.D			1	NO MANUAL INTEGRATION
1957	02242327ECD7.D			1	NO MANUAL INTEGRATION
2018	02242328ECD7.D			1	NO MANUAL INTEGRATION
2039	02242329ECD7.D			1	NO MANUAL INTEGRATION
2059	02242330ECD7.D			1	NO MANUAL INTEGRATION
2120	02242331ECD7.D			1	NO MANUAL INTEGRATION
2141	02242332ECD7.D			1	NO MANUAL INTEGRATION
2202	02242333ECD7.D			1	NO MANUAL INTEGRATION
2223	02242334ECD7.D			1	NO MANUAL INTEGRATION
2244	02242335ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2305	02242336ECD7.D			1	NO MANUAL INTEGRATION
2326	02242337ECD7.D			1	NO MANUAL INTEGRATION
2347	02242338ECD7.D			1	NO MANUAL INTEGRATION
0008	02242339ECD7.D			1	NO MANUAL INTEGRATION
0029	02242340ECD7.D			1	NO MANUAL INTEGRATION
0050	02242341ECD7.D			1	NO MANUAL INTEGRATION
0111	02242342ECD7.D			1	NO MANUAL INTEGRATION
0132	02242343ECD7.D			1	NO MANUAL INTEGRATION
0153	02242344ECD7.D			1	NO MANUAL INTEGRATION
0214	02242345ECD7.D			1	NO MANUAL INTEGRATION
0235	02242346ECD7.D			1	NO MANUAL INTEGRATION
0256	02242347ECD7.D			1	NO MANUAL INTEGRATION
0317	02242348ECD7.D			1	NO MANUAL INTEGRATION
0338	02242349ECD7.D			1	NO MANUAL INTEGRATION
0359	02242350ECD7.D			1	NO MANUAL INTEGRATION
0420	02242351ECD7.D			1	NO MANUAL INTEGRATION
0441	02242352ECD7.D			1	NO MANUAL INTEGRATION
0502	02242353ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0523	02242354ECD7.D			1	NO MANUAL INTEGRATION
0544	02242355ECD7.D			1	NO MANUAL INTEGRATION
0605	02242356ECD7.D			1	NO MANUAL INTEGRATION
0626	02242357ECD7.D			1	NO MANUAL INTEGRATION
0647	02242358ECD7.D			1	NO MANUAL INTEGRATION
0708	02242359ECD7.D			1	NO MANUAL INTEGRATION
0729	02242360ECD7.D			1	NO MANUAL INTEGRATION
0750	02242361ECD7.D			1	NO MANUAL INTEGRATION
0811	02242362ECD7.D			1	NO MANUAL INTEGRATION
0832	02242363ECD7.D			1	NO MANUAL INTEGRATION
0853	02242364ECD7.D			1	NO MANUAL INTEGRATION
0914	02242365ECD7.D			1	NO MANUAL INTEGRATION
0935	02242366ECD7.D			1	NO MANUAL INTEGRATION
0956	02242367ECD7.D			1	NO MANUAL INTEGRATION
1017	02242368ECD7.D			1	NO MANUAL INTEGRATION
1038	02242369ECD7.D			1	NO MANUAL INTEGRATION
1059	02242370ECD7.D			1	NO MANUAL INTEGRATION
1120	02242371ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1141	02242372ECD7.D			1	NO MANUAL INTEGRATION
1202	02242373ECD7.D			1	NO MANUAL INTEGRATION
1223	02242374ECD7.D			1	NO MANUAL INTEGRATION
1244	02242375ECD7.D			1	NO MANUAL INTEGRATION
1305	02242376ECD7.D			1	NO MANUAL INTEGRATION
1326	02242377ECD7.D			1	NO MANUAL INTEGRATION
1347	02242378ECD7.D			1	NO MANUAL INTEGRATION
1408	02242379ECD7.D			1	NO MANUAL INTEGRATION
1429	02242380ECD7.D			1	NO MANUAL INTEGRATION
1450	02242381ECD7.D			1	NO MANUAL INTEGRATION
1511	02242382ECD7.D			1	NO MANUAL INTEGRATION
1532	02242383ECD7.D			1	NO MANUAL INTEGRATION
1553	02242384ECD7.D			1	NO MANUAL INTEGRATION
1051	02242301ECD7.D	IB		1	NO MANUAL INTEGRATION
1112	02242302ECD7.D	0.25PPMAR1660		1	NO MANUAL INTEGRATION
1133	02242303ECD7.D	0.02PPMAR1660		1	Aroclor-1016 [2C],
1154	02242304ECD7.D	0.05PPMAR1660		1	NO MANUAL INTEGRATION
1215	02242305ECD7.D	1.0PPMAR1660		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1236	02242306ECD7.D	0.1PPMAR1660		1	NO MANUAL INTEGRATION
1257	02242307ECD7.D	0.5PPMAR1660		1	NO MANUAL INTEGRATION
1318	02242308ECD7.D	0.25PPMAR1242		1	NO MANUAL INTEGRATION
1339	02242309ECD7.D	0.25PPMAR1248		1	NO MANUAL INTEGRATION
1400	02242310ECD7.D	0.25PPMAR1254		1	NO MANUAL INTEGRATION
1421	02242311ECD7.D	0.25PPMAR2162		1	NO MANUAL INTEGRATION
1442	02242312ECD7.D	0.25PPMAR3268		1	NO MANUAL INTEGRATION
1503	02242313ECD7.D	AR1660SCV		1	NO MANUAL INTEGRATION
1524	02242314ECD7.D	AR1242SCV		1	NO MANUAL INTEGRATION
1545	02242315ECD7.D	AR1248SCV		1	NO MANUAL INTEGRATION
1606	02242316ECD7.D	AR1254SCV		1	NO MANUAL INTEGRATION
1627	02242317ECD7.D	AR2162SCV		1	NO MANUAL INTEGRATION
1648	02242318ECD7.D	AR3268SCV		1	NO MANUAL INTEGRATION
1709	02242319ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1730	02242320ECD7.D	DDT BD		1	NO MANUAL INTEGRATION
1751	02242321ECD7.D			1	NO MANUAL INTEGRATION
1812	02242322ECD7.D			1	NO MANUAL INTEGRATION
1833	02242323ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1854	02242324ECD7.D			1	NO MANUAL INTEGRATION
1915	02242325ECD7.D			1	NO MANUAL INTEGRATION
1936	02242326ECD7.D			1	NO MANUAL INTEGRATION
1957	02242327ECD7.D			1	NO MANUAL INTEGRATION
2018	02242328ECD7.D			1	NO MANUAL INTEGRATION
2038	02242329ECD7.D			1	NO MANUAL INTEGRATION
2059	02242330ECD7.D			1	NO MANUAL INTEGRATION
2120	02242331ECD7.D			1	NO MANUAL INTEGRATION
2141	02242332ECD7.D			1	NO MANUAL INTEGRATION
2202	02242333ECD7.D			1	NO MANUAL INTEGRATION
2223	02242334ECD7.D			1	NO MANUAL INTEGRATION
2244	02242335ECD7.D			1	NO MANUAL INTEGRATION
2305	02242336ECD7.D			1	NO MANUAL INTEGRATION
2326	02242337ECD7.D			1	NO MANUAL INTEGRATION
2347	02242338ECD7.D			1	NO MANUAL INTEGRATION
0008	02242339ECD7.D			1	NO MANUAL INTEGRATION
0029	02242340ECD7.D			1	NO MANUAL INTEGRATION
0050	02242341ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0111	02242342ECD7.D			1	NO MANUAL INTEGRATION
0132	02242343ECD7.D			1	NO MANUAL INTEGRATION
0153	02242344ECD7.D			1	NO MANUAL INTEGRATION
0214	02242345ECD7.D			1	NO MANUAL INTEGRATION
0235	02242346ECD7.D			1	NO MANUAL INTEGRATION
0256	02242347ECD7.D			1	NO MANUAL INTEGRATION
0317	02242348ECD7.D			1	NO MANUAL INTEGRATION
0338	02242349ECD7.D			1	NO MANUAL INTEGRATION
0359	02242350ECD7.D			1	NO MANUAL INTEGRATION
0420	02242351ECD7.D			1	NO MANUAL INTEGRATION
0441	02242352ECD7.D			1	NO MANUAL INTEGRATION
0502	02242353ECD7.D			1	NO MANUAL INTEGRATION
0523	02242354ECD7.D			1	NO MANUAL INTEGRATION
0544	02242355ECD7.D			1	NO MANUAL INTEGRATION
0605	02242356ECD7.D			1	NO MANUAL INTEGRATION
0626	02242357ECD7.D			1	NO MANUAL INTEGRATION
0647	02242358ECD7.D			1	NO MANUAL INTEGRATION
0708	02242359ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0729	02242360ECD7.D			1	NO MANUAL INTEGRATION
0750	02242361ECD7.D			1	NO MANUAL INTEGRATION
0811	02242362ECD7.D			1	NO MANUAL INTEGRATION
0832	02242363ECD7.D			1	NO MANUAL INTEGRATION
0853	02242364ECD7.D			1	NO MANUAL INTEGRATION
0914	02242365ECD7.D			1	NO MANUAL INTEGRATION
0935	02242366ECD7.D			1	NO MANUAL INTEGRATION
0956	02242367ECD7.D			1	NO MANUAL INTEGRATION
1017	02242368ECD7.D			1	NO MANUAL INTEGRATION
1038	02242369ECD7.D			1	NO MANUAL INTEGRATION
1059	02242370ECD7.D			1	NO MANUAL INTEGRATION
1120	02242371ECD7.D			1	NO MANUAL INTEGRATION
1141	02242372ECD7.D			1	NO MANUAL INTEGRATION
1202	02242373ECD7.D			1	NO MANUAL INTEGRATION
1223	02242374ECD7.D			1	NO MANUAL INTEGRATION
1244	02242375ECD7.D			1	NO MANUAL INTEGRATION
1305	02242376ECD7.D			1	NO MANUAL INTEGRATION
1326	02242377ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1347	02242378ECD7.D			1	NO MANUAL INTEGRATION
1408	02242379ECD7.D			1	NO MANUAL INTEGRATION
1429	02242380ECD7.D			1	NO MANUAL INTEGRATION
1450	02242381ECD7.D			1	NO MANUAL INTEGRATION
1511	02242382ECD7.D			1	NO MANUAL INTEGRATION
1532	02242383ECD7.D			1	NO MANUAL INTEGRATION
1553	02242384ECD7.D			1	NO MANUAL INTEGRATION

Security Status Report

Date: 28-Feb-2023 09:27

02242301ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242302ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242303ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242304ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242305ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242306ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242307ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242308ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242309ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242310ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242311ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242312ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242313ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242314ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242315ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242316ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242317ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242318ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242319ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242320ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m
Last Edit : 24-Feb-2023 15:31 richardl
Curve Type : Average

Calibration File Names:
Level 1: \\target\share\chem4\ecd7.i\230224.b\02242303ECD7.D
Level 2: \\target\share\chem4\ecd7.i\230224.b\02242304ECD7.D
Level 3: \\target\share\chem4\ecd7.i\230224.b\02242306ECD7.D
Level 4: \\target\share\chem4\ecd7.i\230224.b\02242302ECD7.D
Level 5: \\target\share\chem4\ecd7.i\230224.b\02242307ECD7.D
Level 6: \\target\share\chem4\ecd7.i\230224.b\02242305ECD7.D
Level 7: \\target\share\chem4\ecd7.i\230224.b\02242312ECD7.D

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	RRF	% RSD
2 Aroclor-1221(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.00716	0.00716	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.01281	0.01281	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.02975	0.02975	0.000
3 Aroclor-1242(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.02479	0.02479	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.07529	0.07529	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.02343	0.02343	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.03463	0.03463	0.000
4 Aroclor-1232(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.00429	0.00429	0.000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m
Last Edit : 24-Feb-2023 15:31 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	RRF	% RSD
(2)	*****	*****	*****	*****	*****	*****	0.00850	0.00850	0.000
(3)	*****	*****	*****	*****	*****	*****	0.03848	0.03848	0.000
(4)	*****	*****	*****	*****	*****	*****	0.01635	0.01635	0.000
7 Aroclor-1016(1)	0.03172	0.03253	0.03142	0.03141	0.02856	0.02667	*****	0.03039	7.449
(2)	0.09239	0.09246	0.09222	0.09849	0.09174	0.08849	*****	0.09263	3.499
(3)	0.05165	0.05037	0.04823	0.04393	0.03991	0.03721	*****	0.04522	12.936
(4)	0.03002	0.02894	0.02959	0.03058	0.02852	0.02774	*****	0.02923	3.542
6 Aroclor-1248(1)	*****	*****	*****	*****	*****	*****	0.03903	0.03903	0.000
(2)	*****	*****	*****	*****	*****	*****	0.04961	0.04961	0.000
(3)	*****	*****	*****	*****	*****	*****	0.09360	0.09360	0.000
(4)	*****	*****	*****	*****	*****	*****	0.04765	0.04765	0.000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m
Last Edit : 24-Feb-2023 15:31 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
8 Aroclor-1254(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.08033	0.08033	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.03613	0.03613	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.05165	0.05165	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.10042	0.10042	0.000
(5)	+++++	+++++	+++++	+++++	+++++	+++++	0.06294	0.06294	0.000
9 Aroclor-1260(1)	0.02926	0.02920	0.02841	0.03096	0.02737	0.02746	+++++	0.02878	4.677
(2)	0.02967	0.03006	0.03011	0.03291	0.02910	0.02857	+++++	0.03007	5.029
(3)	0.08088	0.08045	0.07954	0.08575	0.07515	0.07674	+++++	0.07975	4.627
(4)	0.03905	0.03887	0.03955	0.04485	0.03942	0.03922	+++++	0.04016	5.753
(5)	0.01783	0.01715	0.01679	0.01875	0.01664	0.01655	+++++	0.01729	4.953
10 Aroclor-1262(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.02454	0.02454	0.000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m
Last Edit : 24-Feb-2023 15:31 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
(2)	+++++	+++++	+++++	+++++	+++++	+++++			
	0.03993							0.03993	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++			
	0.04293							0.04293	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++			
	0.03923							0.03923	0.000
11 Aroclor-1268(1)	+++++	+++++	+++++	+++++	+++++	+++++			
	0.10250							0.10250	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++			
	0.10151							0.10151	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++			
	0.08686							0.08686	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++			
	0.28598							0.28598	0.000
42 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
43 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
44 2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
46 4,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m
Last Edit : 24-Feb-2023 15:31 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
47 4,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 4,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	1.16827	1.24402	1.18546	1.20509	1.12295	1.24114	+++++	1.19449	3.860
$ 13 Decachlorobiphenyl	0.82901	0.80558	0.77587	0.78808	0.73125	0.79742	+++++	0.78787	4.189

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Last Edit : 24-Feb-2023 15:29 richardl
Curve Type : Average

Calibration File Names:
Level 1: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242303ECD7.D
Level 2: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242304ECD7.D
Level 3: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242306ECD7.D
Level 4: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242302ECD7.D
Level 5: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242307ECD7.D
Level 6: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242305ECD7.D
Level 7: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242312ECD7.D

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	RRF	% RSD
1 Aroclor-1221 [2C](1)	+++++	+++++	+++++	+++++	+++++	+++++	0.00757	0.00757	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.01433	0.01433	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.02333	0.02333	0.000
4 Aroclor-1232 [2C](1)	+++++	+++++	+++++	+++++	+++++	+++++	0.00409	0.00409	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.02034	0.02034	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.04067	0.04067	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.01170	0.01170	0.000
3 Aroclor-1242 [2C](1)	+++++	+++++	+++++	+++++	+++++	+++++	0.03717	0.03717	0.000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Last Edit : 24-Feb-2023 15:29 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	RRF	% RSD
(2)	*****	*****	*****	*****	*****	*****	0.07813	0.07813	0.000
(3)	*****	*****	*****	*****	*****	*****	0.02431	0.02431	0.000
(4)	*****	*****	*****	*****	*****	*****	0.02962	0.02962	0.000
6 Aroclor-1248 [2C](1)	*****	*****	*****	*****	*****	*****	0.03820	0.03820	0.000
(2)	*****	*****	*****	*****	*****	*****	0.03949	0.03949	0.000
(3)	*****	*****	*****	*****	*****	*****	0.04545	0.04545	0.000
(4)	*****	*****	*****	*****	*****	*****	0.05457	0.05457	0.000
7 Aroclor-1016 [2C](1)	0.05071	0.05022	0.04868	0.04733	0.04326	0.04080	*****	0.04683	8.503
(2)	0.08143	0.09407	0.10159	0.10259	0.09651	0.09362	*****	0.09497	8.025
(3)	0.04006	0.04718	0.04613	0.04410	0.04062	0.03926	*****	0.04289	7.857
(4)	0.03181	0.03802	0.03707	0.03450	0.03115	0.02936	*****	0.03365	10.251

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Last Edit : 24-Feb-2023 15:29 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
8 Aroclor-1254 [2C](1)	*****	*****	*****	*****	*****	*****	0.06081	0.06081	0.000
(2)	*****	*****	*****	*****	*****	*****	0.04892	0.04892	0.000
(3)	*****	*****	*****	*****	*****	*****	0.10584	0.10584	0.000
(4)	*****	*****	*****	*****	*****	*****	0.10317	0.10317	0.000
(5)	*****	*****	*****	*****	*****	*****	0.06282	0.06282	0.000
10 Aroclor-1262 [2C](1)	*****	*****	*****	*****	*****	*****	0.06831	0.06831	0.000
(2)	*****	*****	*****	*****	*****	*****	0.05818	0.05818	0.000
(3)	*****	*****	*****	*****	*****	*****	0.06601	0.06601	0.000
(4)	*****	*****	*****	*****	*****	*****	0.10341	0.10341	0.000
9 Aroclor-1260 [2C](1)	0.05286	0.04911	0.04696	0.04801	0.04329	0.04201	*****	0.04704	8.422
(2)	0.12976	0.12431	0.12095	0.12664	0.11320	0.10545	*****	0.12005	7.605

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Last Edit : 24-Feb-2023 15:29 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
(3)	0.03524	0.03147	0.02937	0.03208	0.03102	0.03198	#####	0.03186	6.045
(4)	0.08632	0.08237	0.08044	0.08393	0.07718	0.07531	#####	0.08092	5.126
11 Aroclor-1268 [2C](1)	#####	#####	#####	#####	#####	#####	0.16109	0.16109	0.000
(2)	#####	#####	#####	#####	#####	#####	0.17318	0.17318	0.000
(3)	#####	#####	#####	#####	#####	#####	0.14787	0.14787	0.000
(4)	#####	#####	#####	#####	#####	#####	0.47260	0.47260	0.000
41 2,4-DDE [2C]	#####	#####	#####	#####	#####	#####	#####	#####	#####
42 2,4-DDD [2C]	#####	#####	#####	#####	#####	#####	#####	#####	#####
44 4,4-DDE [2C]	#####	#####	#####	#####	#####	#####	#####	#####	#####
45 4,4-DDD/2,4-DDT [2C]	#####	#####	#####	#####	#####	#####	#####	#####	#####
46 4,4-DDT [2C]	#####	#####	#####	#####	#####	#####	#####	#####	#####

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Last Edit : 24-Feb-2023 15:29 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
48 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 2 Tetrachloro-m-xylene [2C]	1.21526	1.19545	1.17555	1.21907	1.12560	1.11139	+++++	1.17372	3.897
$ 13 Decachlorobiphenyl [2C]	1.17066	1.20406	1.20549	1.31040	1.21104	1.20797	+++++	1.21827	3.898

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Batch File: \\target\share\chem4\ecd7.i\230224.b
Inst ID: ecd7.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06
FILENAME:	02242302ECD7	02242303ECD7	02242304ECD7	02242305ECD7	02242306ECD7	02242307ECD7
INJ.DATE:	24-FEB-2023	24-FEB-2023	24-FEB-2023	24-FEB-2023	24-FEB-2023	24-FEB-2023
INJ.TIME:	11:12	11:33	11:54	12:15	12:36	12:57

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
* 41 IS-BNB	3.493	3.492	3.492	3.492	3.491	3.491	3.493	3.393-3.593	3.492	0.001
$ 1 Tetrachloro-m-xylene	5.811	5.809	5.809	5.813	5.809	5.810	5.811	5.711-5.911	5.810	0.002
2 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	4.732	4.632-4.832	+++++	+++++
3 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	7.269	7.169-7.369	+++++	+++++
4 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	4.732	4.632-4.832	+++++	+++++
7 Aroclor-1016	7.272	7.272	7.272	7.270	7.271	7.270	7.272	7.172-7.372	7.271	0.001
6 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	8.403	8.303-8.503	+++++	+++++
8 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	9.295	9.195-9.395	+++++	+++++
9 Aroclor-1260	11.046	11.047	11.046	11.044	11.045	11.044	11.046	10.946-11.146	11.045	0.001
10 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	10.824	10.724-10.924	+++++	+++++
11 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	12.243	12.143-12.343	+++++	+++++
$ 13 Decachlorobiphenyl	13.897	13.893	13.893	13.899	13.892	13.898	13.897	13.797-13.997	13.895	0.003
* 12 IS-HBBP	14.269	14.268	14.268	14.267	14.268	14.268	14.269	14.169-14.369	14.268	0.001
42 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	9.260	9.210-9.310	+++++	+++++
43 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	9.801	9.751-9.851	+++++	+++++
44 2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	10.293	10.243-10.343	+++++	+++++
46 4,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	9.683	9.583-9.783	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Batch File: \\target\share\chem4\ecd7.i\230224.b
Inst ID: ecd7.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
47 4,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	10.254	10.154-10.354	+++++	+++++
48 4,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	10.754	10.654-10.854	+++++	+++++
49 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	1.842	1.742-1.942	+++++	+++++
50 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	6.708	6.608-6.808	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Batch File: \\target\share\chem4\ecd7.i\230224.b\230224.b
Inst ID: ecd7.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06
FILENAME:	02242302ECD7	02242303ECD7	02242304ECD7	02242305ECD7	02242306ECD7	02242307ECD7
INJ.DATE:	24-FEB-2023	24-FEB-2023	24-FEB-2023	24-FEB-2023	24-FEB-2023	24-FEB-2023
INJ.TIME:	11:12	11:33	11:54	12:15	12:36	12:57

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
* 40 IS-BNB [2C]	3.928	3.929	3.929	3.929	3.928	3.929	3.928	3.828-4.028	3.929	0.000
$ 2 Tetrachloro-m-xylene [	5.687	5.688	5.688	5.688	5.688	5.688	5.687	5.587-5.787	5.688	0.001
1 Aroclor-1221 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	4.958	4.858-5.058	+++++	+++++
4 Aroclor-1232 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	4.958	4.859-5.059	+++++	+++++
3 Aroclor-1242 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	7.254	7.154-7.354	+++++	+++++
6 Aroclor-1248 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	8.305	8.205-8.405	+++++	+++++
7 Aroclor-1016 [2C]	7.255	7.256	7.256	7.254	7.255	7.256	7.255	7.155-7.355	7.255	0.001
8 Aroclor-1254 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	9.447	9.347-9.547	+++++	+++++
10 Aroclor-1262 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	11.198	11.098-11.298	+++++	+++++
9 Aroclor-1260 [2C]	11.653	11.656	11.655	11.652	11.655	11.653	11.653	11.553-11.753	11.654	0.001
11 Aroclor-1268 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	12.431	12.331-12.531	+++++	+++++
$ 13 Decachlorobiphenyl [2C	14.120	14.120	14.119	14.122	14.119	14.120	14.120	14.020-14.220	14.120	0.001
* 12 IS-HBBP [2C]	15.008	15.008	15.008	15.008	15.007	15.008	15.008	14.908-15.108	15.008	0.000
41 2,4-DDE [2C]	+++++	+++++	+++++	+++++	+++++	+++++	9.911	9.861-9.961	+++++	+++++
42 2,4-DDD [2C]	+++++	+++++	+++++	+++++	+++++	+++++	9.536	9.486-9.586	+++++	+++++
44 4,4-DDE [2C]	+++++	+++++	+++++	+++++	+++++	+++++	10.209	10.109-10.309	+++++	+++++
45 4,4-DDD/2,4-DDT [2C]	+++++	+++++	+++++	+++++	+++++	+++++	10.667	10.567-10.767	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Batch File: \\target\share\chem4\ecd7.i\230224.b\230224.b
Inst ID: ecd7.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
46 4,4-DDT [2C]	+++++	+++++	+++++	+++++	+++++	+++++	11.092	10.992-11.192	+++++	+++++
48 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	1.703	1.603-1.803	+++++	+++++
49 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	7.178	7.078-7.278	+++++	+++++

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242301ECD7.D
Data file 2: /230224.b/230224.b/02242301ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: IB
Client ID:
Injection Date: 24-FEB-2023 10:51
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	0.019	382217	5.683	-0.002	180378	33.8	36.5	7.7	Tetrachloro-m-xylene
13.904	0.011	534110	14.120	0.001	295605	35.3	37.2	5.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	756896	12.3
Hexabromobiphenyl	1429847	1534275	7.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	336543	6.8
Hexabromobiphenyl	513946	521508	1.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	6.321	0.025	1873	31.1
Aroclor-1221	3	---			0.0	3	6.633	0.012	314	3.2
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	7.698	0.043	2193	6.0	3	---			0.0
Aroclor-1232	4	8.505	-0.076	11525	74.5	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	7.698	0.042	2193	3.1	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	8.505	-0.074	11525	35.2	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	9.596	-0.072	31424	64.3	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	10.167	-0.010	18361	30.8	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	11.098	0.054	6994	12.7	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	11.706	-0.027	7806	5.1	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	10.824	-0.005	16873	35.8	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	13.040	0.053	14031	18.6	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	12.709	0.009	6037	3.6	3	12.891	-0.001	659	0.7
Aroclor-1268	4	13.499	0.010	12396	2.3	4	13.710	0.001	1848	0.6
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.906 - 13.793) = 260205 Col1 Total PCB = 0.0 ppm*

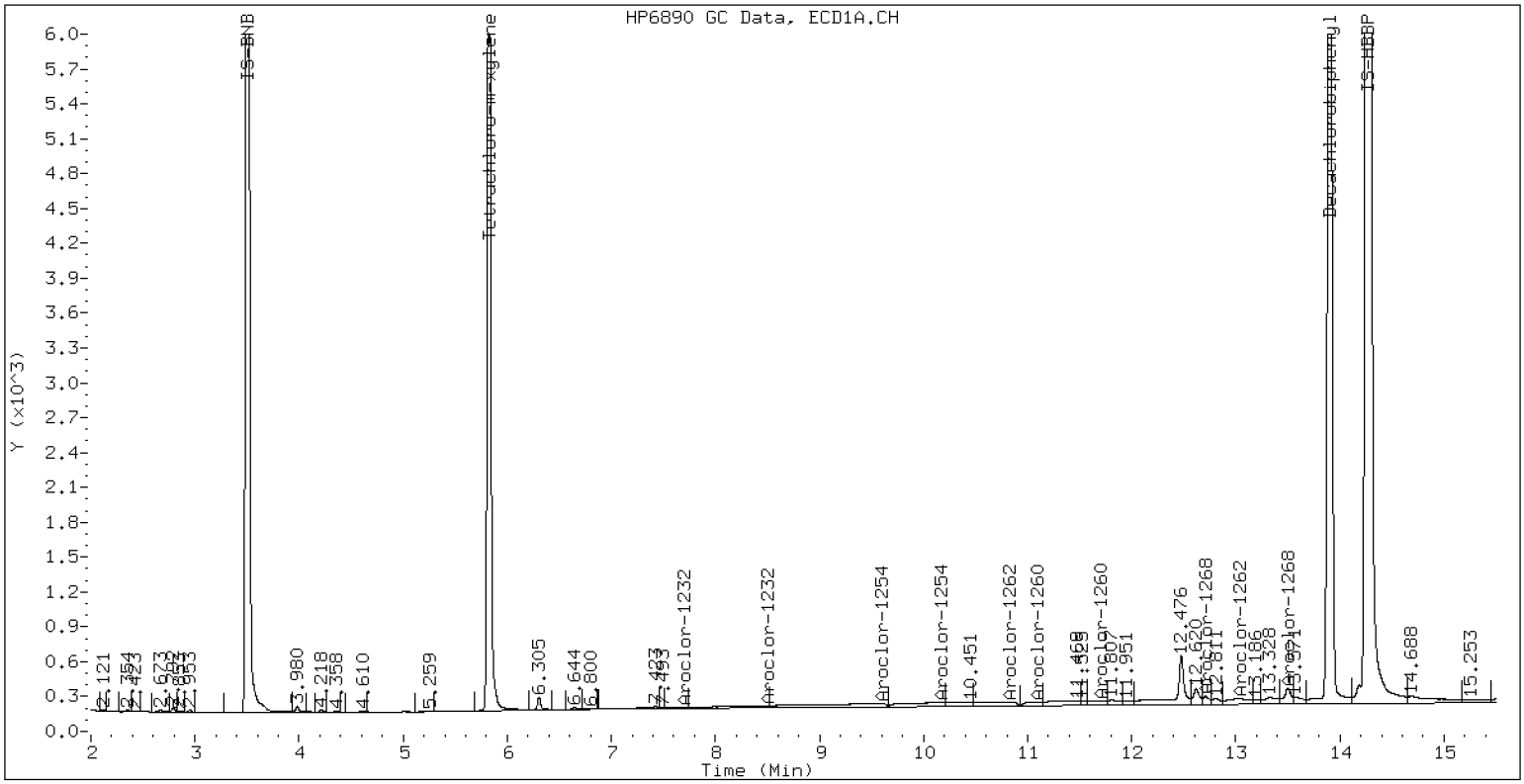
Total PCB Area Col2 (5.785 - 14.019) = 18252 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

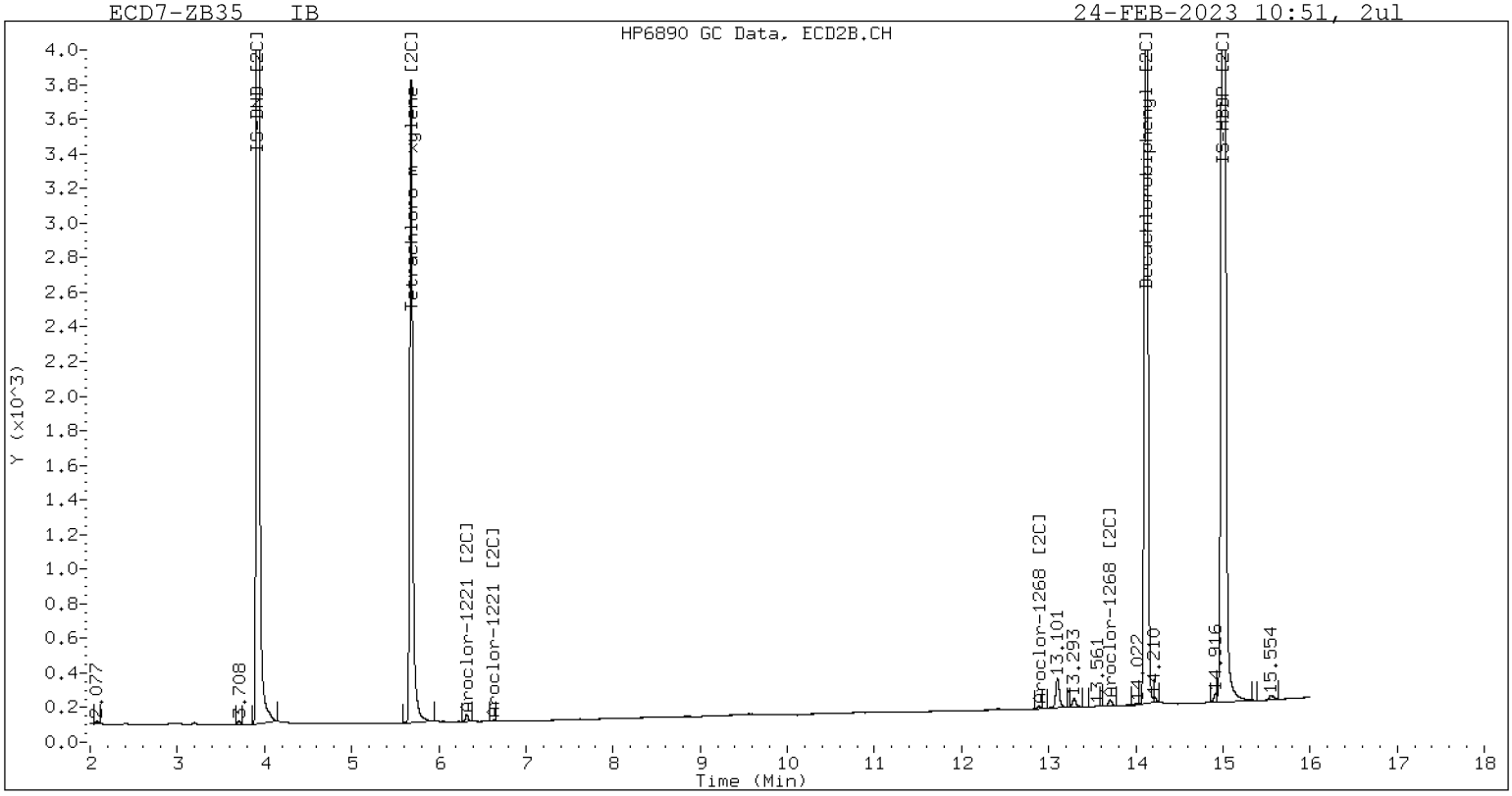
PCB Dual Column Chromatograms

ECD7-ZB5 IB 24-FEB-2023 10:51, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 IB 24-FEB-2023 10:51, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242302ECD7.D
Data file 2: /230224.b/230224.b/02242302ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR1660
Client ID:
Injection Date: 24-FEB-2023 11:12
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.811	0.005	405980	5.687	0.002	192160	40.4	41.5	2.9	Tetrachloro-m-xylene
13.897	0.004	563414	14.120	0.001	336737	40.0	43.0	7.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	673778	0.0
Hexabromobiphenyl	1429847	1429847	0.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	315256	0.0
Hexabromobiphenyl	513946	513946	0.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.272	0.001	66125	258.4	1	7.255	-0.001	46626	252.6
Aroclor-1016	2	7.654	-0.000	207370	265.8	2	7.855	-0.001	101071	270.1
Aroclor-1016	3	7.792	0.002	92507	242.9	3	8.055	0.001	43448	257.1
Aroclor-1016	4	8.406	0.001	64388	261.5	4	8.306	-0.000	33986	256.3
Total Col1Ave (4 peaks):					257.2	Total Col2Ave (4 peaks):				259.0 RPD = 1
Corrected Ave (3 peaks):					254.3	Corrected Ave (3 peaks):				255.3 RPD = 0
CalAmt %D:					2.9	CalAmt %D:				3.6
Aroclor-1260	1	11.046	0.001	138355	269.0	1	11.653	0.001	77114	255.2
Aroclor-1260	2	11.363	0.002	147051	273.6	2	11.918	0.001	203401	263.7
Aroclor-1260	3	11.736	0.003	383171	268.8	3	12.435	-0.000	51517	251.7
Aroclor-1260	4	12.141	0.002	200399	279.2	4	12.502	0.001	134797	259.3
Aroclor-1260	5	12.247	0.003	83796	271.2	NS	---			----
Total Col1Ave (5 peaks):					272.4	Total Col2Ave (4 peaks):				257.5 RPD = 6
Corrected Ave (4 peaks):					270.7	Corrected Ave (3 peaks):				255.4 RPD = 6
CalAmt %D:					8.9	CalAmt %D:				3.0

Total PCB Area Col1 (5.906 - 13.793) = 4024419 Col1 Total PCB = 0.5 ppm*

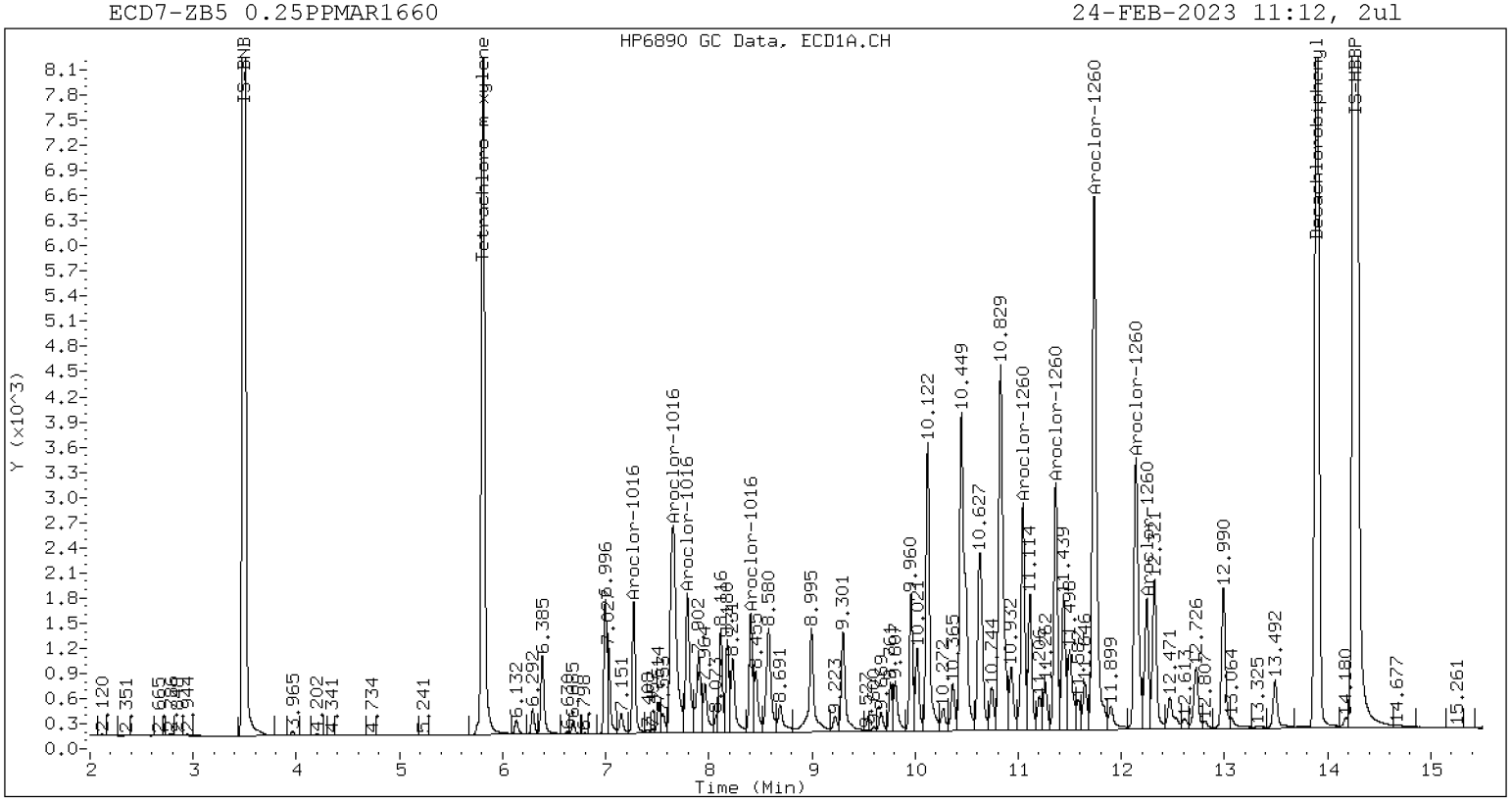
Total PCB Area Col2 (5.785 - 14.019) = 1889311 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

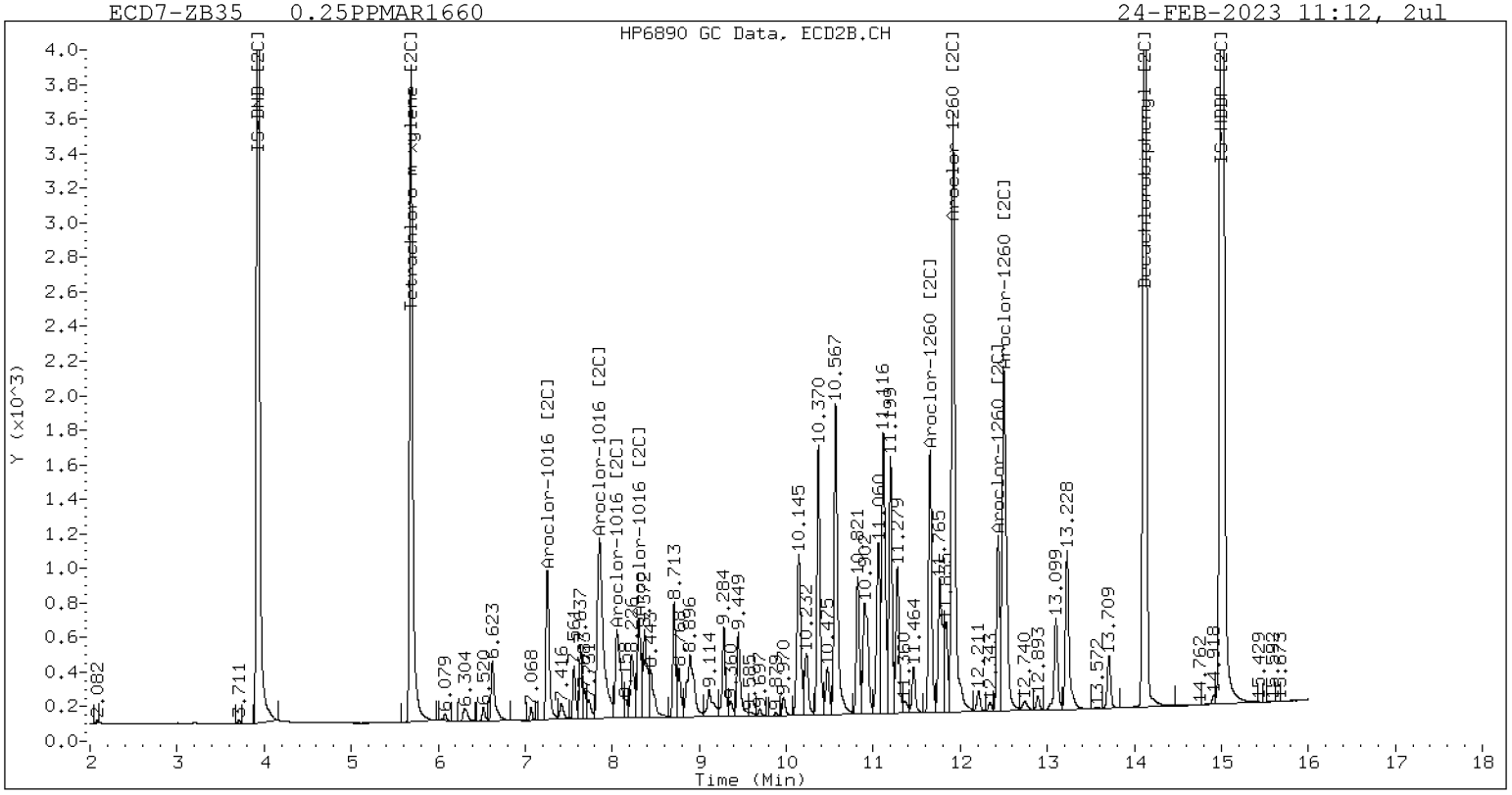
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1660 24-FEB-2023 11:12, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR1660 24-FEB-2023 11:12, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242303ECD7.D
Data file 2: /230224.b/230224.b/02242303ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.02PPMAR1660
Client ID:
Injection Date: 24-FEB-2023 11:33
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.002	29768	5.688	0.003	14932	3.1	3.3	5.7	Tetrachloro-m-xylene
13.893	0.000	45992	14.120	0.000	23950	3.4	3.1	9.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	637010	-5.5
Hexabromobiphenyl	1429847	1386953	-3.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	307177	-2.6
Hexabromobiphenyl	513946	511463	-0.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.272	0.001	5052	20.9	1	7.256	0.000	3894	21.7
Aroclor-1016	2	7.659	0.005	14714	19.9	2	7.864	0.008	6253	17.1
Aroclor-1016	3	7.795	0.005	8226	22.8	3	8.060	0.006	3076	18.7
Aroclor-1016	4	8.407	0.002	4780	20.5	4	8.309	0.002	2443	18.9
Total Col1Ave (4 peaks):					21.1	Total Col2Ave (4 peaks):				19.1 RPD = 10
Corrected Ave (3 peaks):					20.5	Corrected Ave (3 peaks):				18.2 RPD = 11
CalAmt %D:					5.3	CalAmt %D:				-4.5
Aroclor-1260	1	11.047	0.003	10147	20.3	1	11.656	0.003	6759	22.5
Aroclor-1260	2	11.364	0.003	10287	19.7	2	11.922	0.005	16592	21.6
Aroclor-1260	3	11.740	0.006	28043	20.3	3	12.438	0.002	4506	22.1
Aroclor-1260	4	12.145	0.006	13540	19.4	4	12.505	0.004	11037	21.3
Aroclor-1260	5	12.246	0.002	6182	20.6	NS	---			----
Total Col1Ave (5 peaks):					20.1	Total Col2Ave (4 peaks):				21.9 RPD = 9
Corrected Ave (4 peaks):					19.9	Corrected Ave (3 peaks):				21.7 RPD = 8
CalAmt %D:					0.4	CalAmt %D:				9.4

Total PCB Area Col1 (5.906 - 13.793) = 324832 Col1 Total PCB = 0.0 ppm*

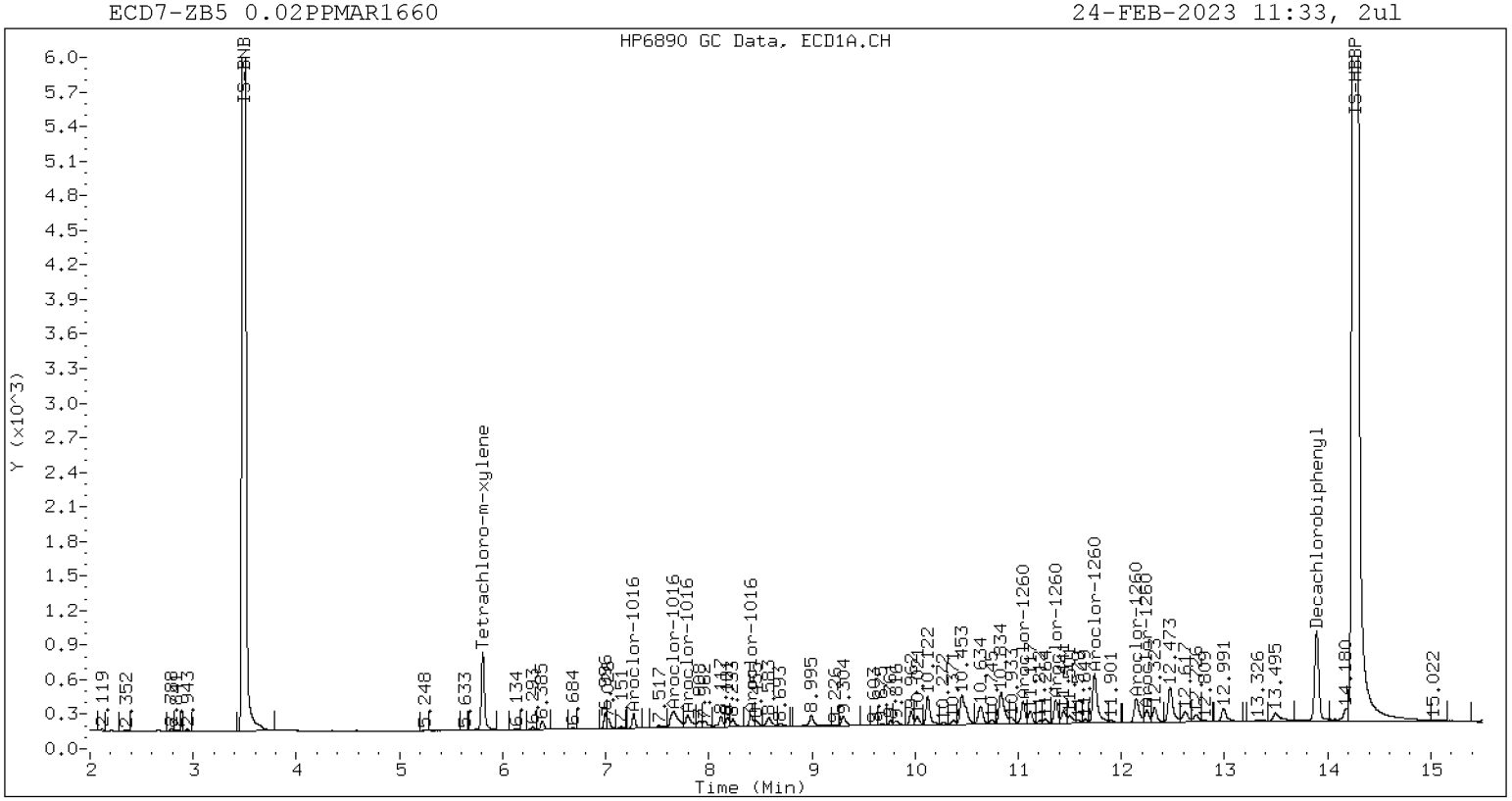
Total PCB Area Col2 (5.785 - 14.019) = 157149 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

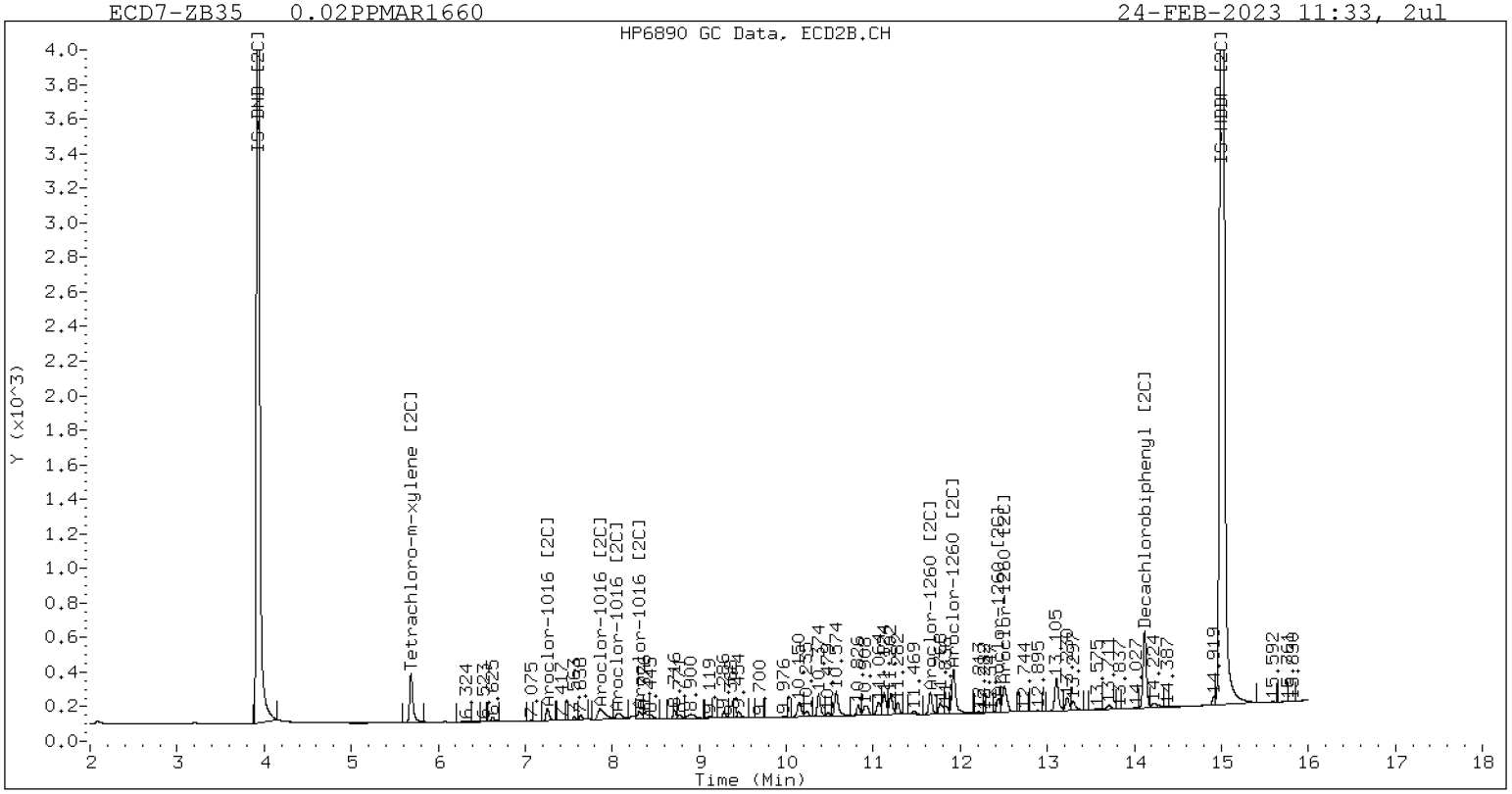
PCB Dual Column Chromatograms

ECD7-ZB5 0.02PPMAR1660 24-FEB-2023 11:33, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.02PPMAR1660 24-FEB-2023 11:33, 2ul

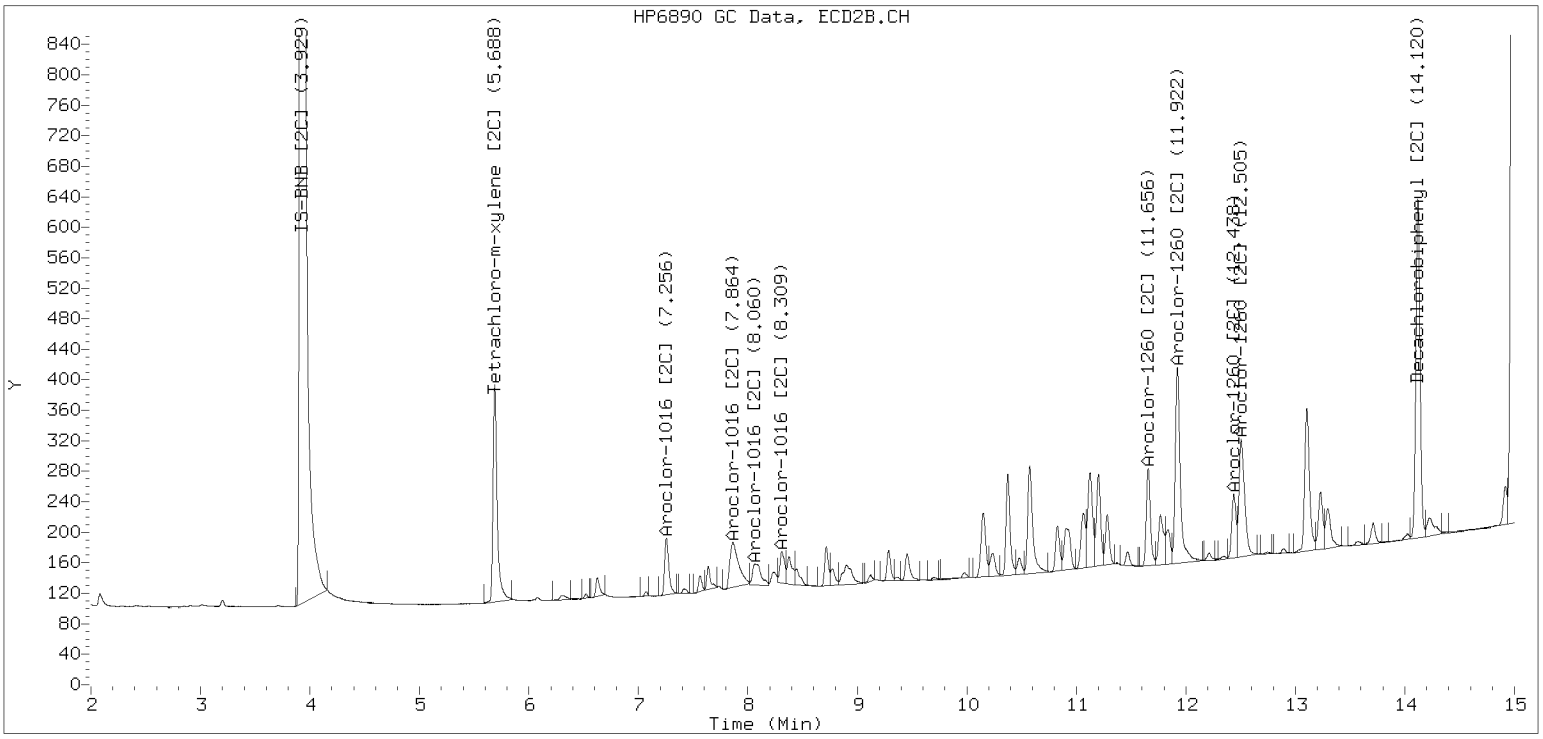


ZB-35 Manual Integration: YES

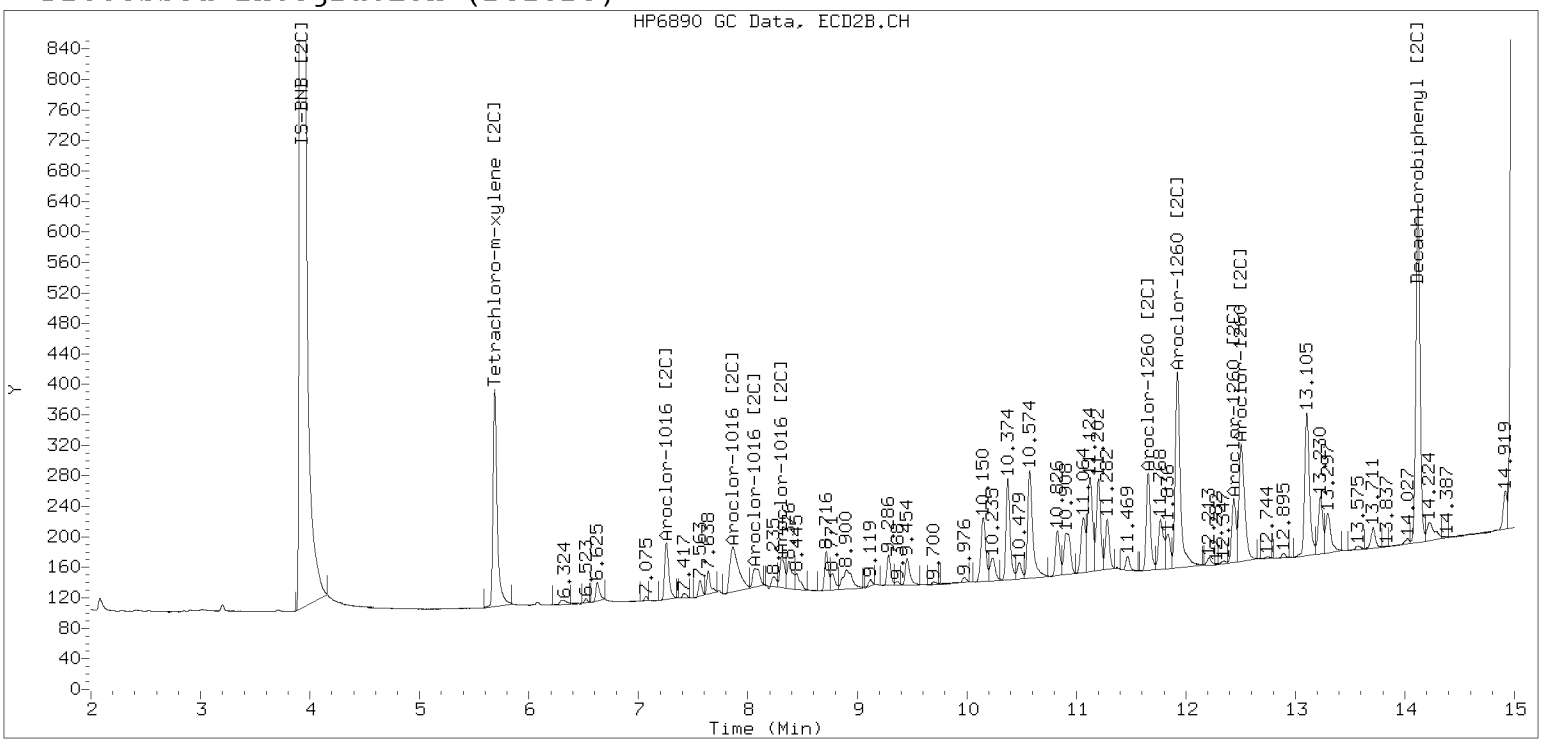
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230224.b/230224.b/02242303ECD7.D Injection Date: 24-FEB-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242304ECD7.D
Data file 2: /230224.b/230224.b/02242304ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.05PPMAR1660
Client ID:
Injection Date: 24-FEB-2023 11:54
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.003	78493	5.688	0.003	36772	8.3	8.1	2.2	Tetrachloro-m-xylene
13.893	-0.000	113544	14.119	-0.000	62745	8.2	7.9	3.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	630965	-6.4
Hexabromobiphenyl	1429847	1409464	-1.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	307599	-2.4
Hexabromobiphenyl	513946	521112	1.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.272	0.002	12829	53.5	1	7.256	0.000	9654	53.6
Aroclor-1016	2	7.660	0.006	36461	49.9	2	7.864	0.008	18085	49.5
Aroclor-1016	3	7.795	0.005	19865	55.7	3	8.063	0.008	9071	55.0
Aroclor-1016	4	8.408	0.003	11411	49.5	4	8.310	0.003	7309	56.5
Total Col1Ave (4 peaks):					52.2	Total Col2Ave (4 peaks):				53.7 RPD = 3
Corrected Ave (3 peaks):					51.0	Corrected Ave (3 peaks):				52.7 RPD = 3
CalAmt %D:					4.3	CalAmt %D:				7.3
Aroclor-1260	1	11.046	0.002	25727	50.7	1	11.655	0.002	15996	52.2
Aroclor-1260	2	11.363	0.002	26482	50.0	2	11.922	0.004	40487	51.8
Aroclor-1260	3	11.739	0.005	70871	50.4	3	12.437	0.002	10248	49.4
Aroclor-1260	4	12.143	0.004	34239	48.4	4	12.506	0.004	26828	50.9
Aroclor-1260	5	12.246	0.002	15109	49.6	NS	---			----
Total Col1Ave (5 peaks):					49.8	Total Col2Ave (4 peaks):				51.1 RPD = 2
Corrected Ave (4 peaks):					49.6	Corrected Ave (3 peaks):				50.7 RPD = 2
CalAmt %D:					-0.3	CalAmt %D:				2.1

Total PCB Area Col1 (5.906 - 13.793) = 758292 Col1 Total PCB = 0.1 ppm*

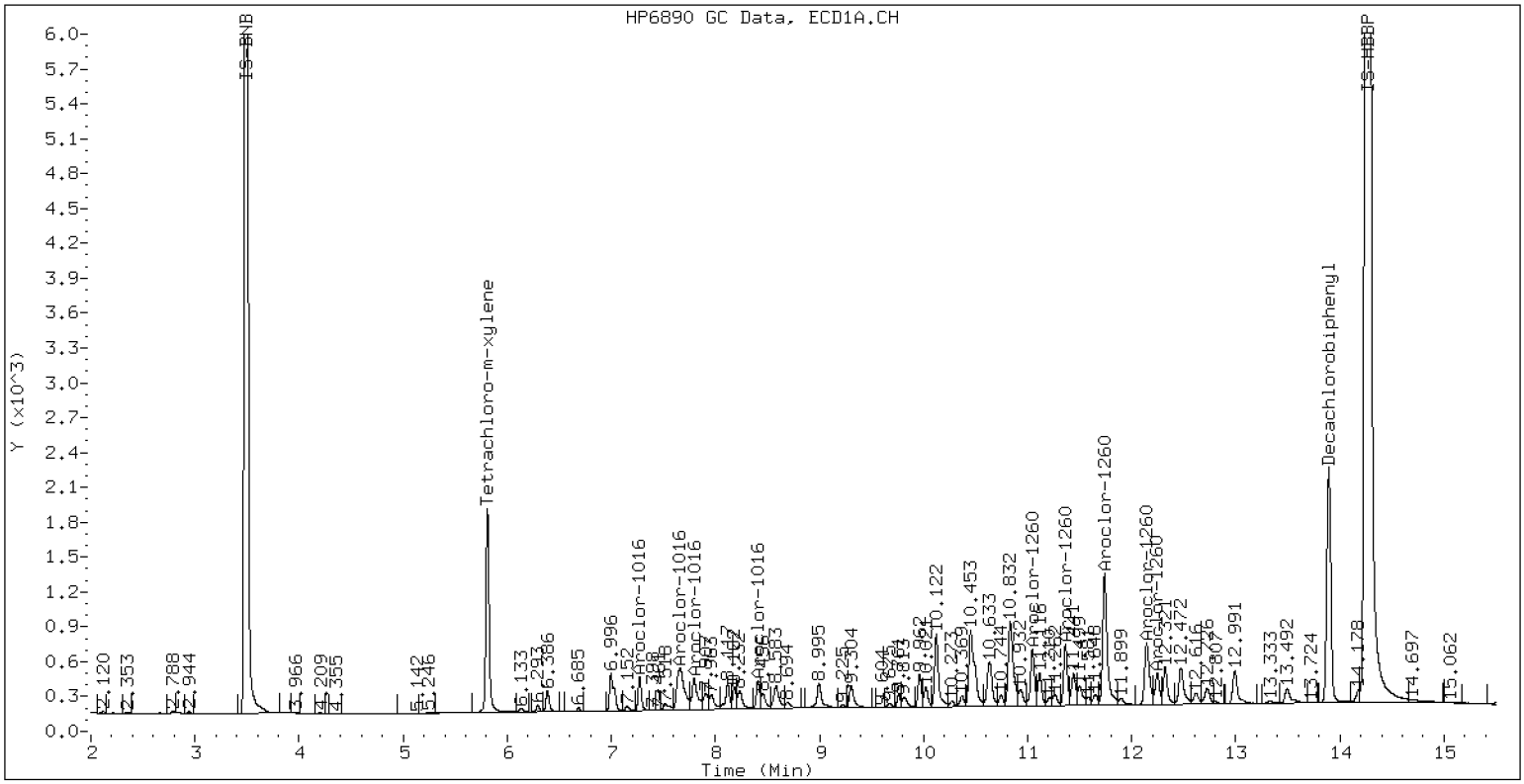
Total PCB Area Col2 (5.785 - 14.019) = 386383 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

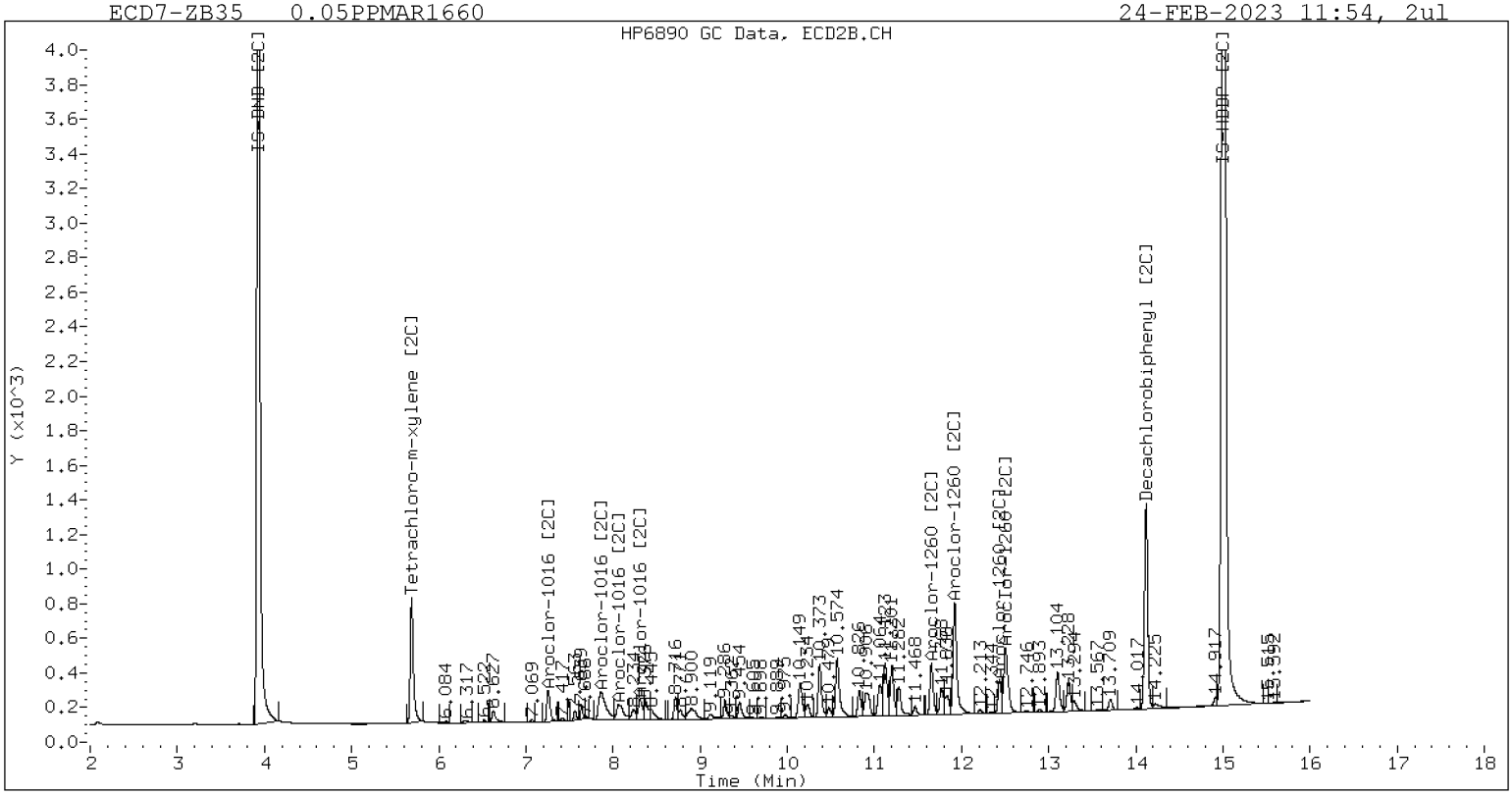
PCB Dual Column Chromatograms

ECD7-ZB5 0.05PPMAR1660 24-FEB-2023 11:54, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.05PPMAR1660 24-FEB-2023 11:54, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242305ECD7.D
Data file 2: /230224.b/230224.b/02242305ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 1.0PPMAR1660
Client ID:
Injection Date: 24-FEB-2023 12:15
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.813	0.006	1641874	5.688	0.003	709674	166.2	151.5	9.3	Tetrachloro-m-xylene
13.899	0.006	2344583	14.122	0.002	1300114	161.9	158.6	2.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	661440	-1.8
Hexabromobiphenyl	1429847	1470100	2.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	319272	1.3
Hexabromobiphenyl	513946	538138	4.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.270	-0.000	220519	877.8	1	7.254	-0.001	162833	871.2
Aroclor-1016	2	7.652	-0.002	731607	955.3	2	7.852	-0.004	373610	985.8
Aroclor-1016	3	7.789	-0.001	307629	822.8	3	8.051	-0.003	156666	915.2
Aroclor-1016	4	8.404	-0.001	229387	949.1	4	8.305	-0.002	117186	872.6
Total Col1Ave (4 peaks):					901.3	Total Col2Ave (4 peaks):				911.2 RPD = 1
Corrected Ave (3 peaks):					883.3	Corrected Ave (3 peaks):				886.3 RPD = 0
CalAmt %D:					-9.9	CalAmt %D:				-8.9
Aroclor-1260	1	11.044	-0.000	504641	954.2	1	11.652	-0.000	282606	893.1
Aroclor-1260	2	11.360	-0.001	524931	950.0	2	11.917	-0.000	709329	878.4
Aroclor-1260	3	11.734	-0.000	1410270	962.3	3	12.434	-0.001	215124	1003.8
Aroclor-1260	4	12.137	-0.002	720770	976.7	4	12.501	-0.001	506566	930.6
Aroclor-1260	5	12.243	-0.001	304211	957.7	NS	---			----
Total Col1Ave (5 peaks):					960.2	Total Col2Ave (4 peaks):				926.5 RPD = 4
Corrected Ave (4 peaks):					956.0	Corrected Ave (3 peaks):				900.7 RPD = 6
CalAmt %D:					-4.0	CalAmt %D:				-7.4

Total PCB Area Col1 (5.906 - 13.793) = 14454279 Col1 Total PCB = 1.8 ppm*

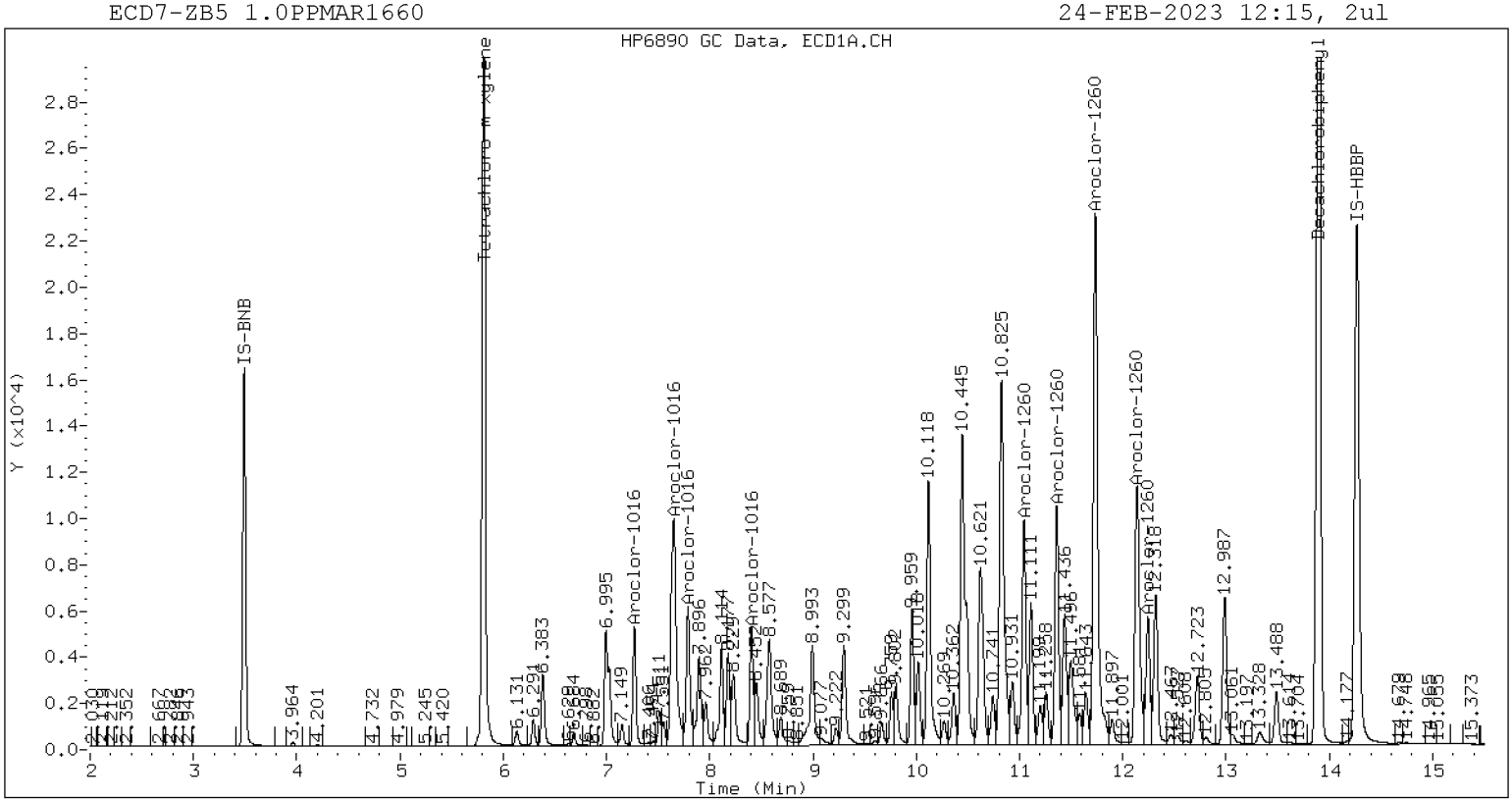
Total PCB Area Col2 (5.785 - 14.019) = 7029563 Col2 Total PCB = 1.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

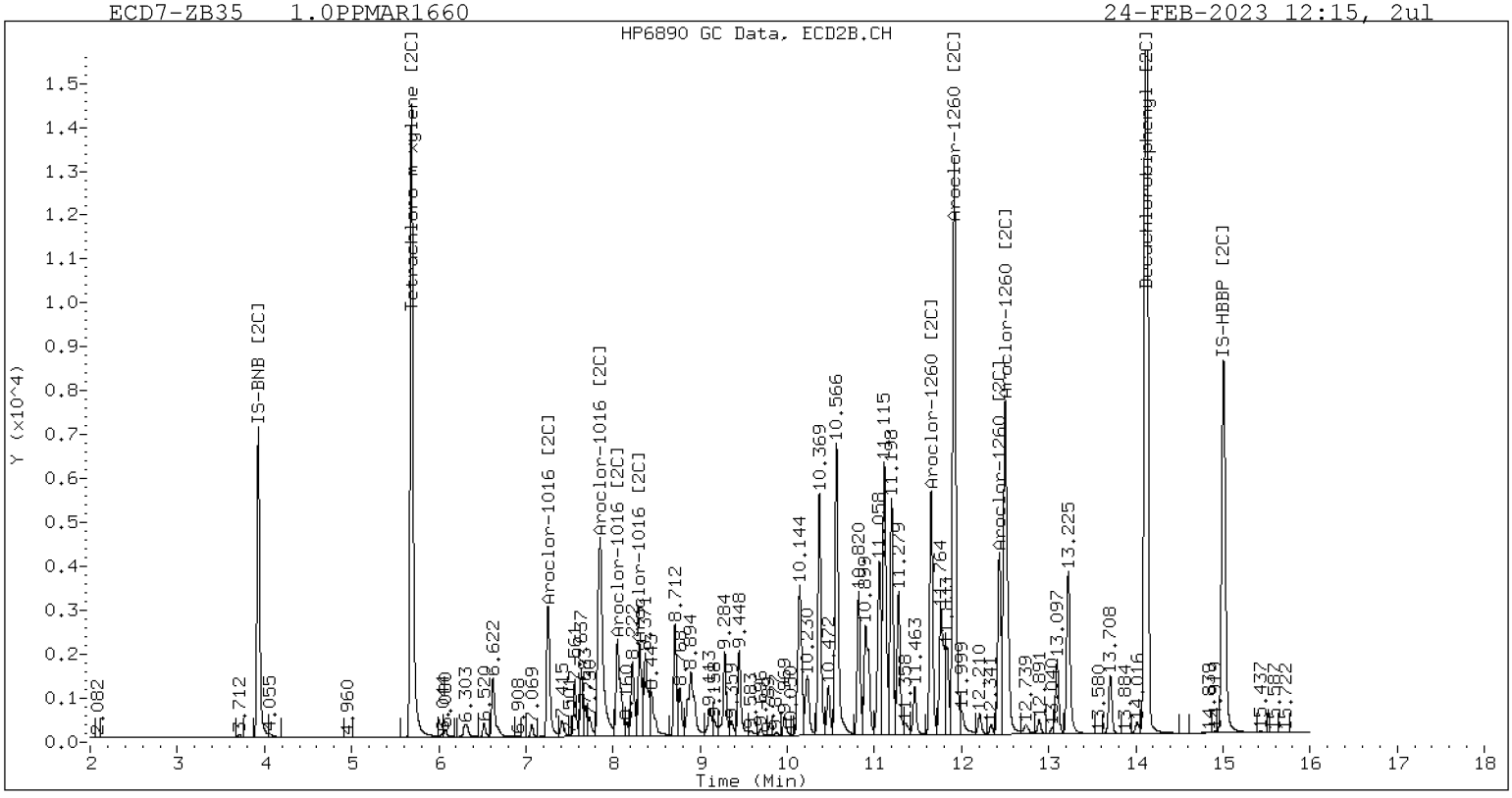
PCB Dual Column Chromatograms

ECD7-ZB5 1.0PPMAR1660 24-FEB-2023 12:15, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 1.0PPMAR1660 24-FEB-2023 12:15, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242306ECD7.D
Data file 2: /230224.b/230224.b/02242306ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.1PPMAR1660
Client ID:
Injection Date: 24-FEB-2023 12:36
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.002	155528	5.688	0.003	74628	15.9	16.0	0.9	Tetrachloro-m-xylene
13.892	-0.001	227253	14.119	-0.000	128496	15.8	15.8	0.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	655979	-2.6
Hexabromobiphenyl	1429847	1464509	2.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	317418	0.7
Hexabromobiphenyl	513946	532962	3.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.271	0.000	25761	103.4	1	7.255	-0.000	19315	103.9
Aroclor-1016	2	7.657	0.003	75616	99.6	2	7.863	0.007	40308	107.0
Aroclor-1016	3	7.794	0.004	39547	106.7	3	8.059	0.005	18304	107.6
Aroclor-1016	4	8.406	0.001	24260	101.2	4	8.309	0.002	14708	110.2
Total Col1Ave (4 peaks):					102.7	Total Col2Ave (4 peaks):				107.2 RPD = 4
Corrected Ave (3 peaks):					101.4	Corrected Ave (3 peaks):				106.2 RPD = 5
CalAmt %D:					2.7	CalAmt %D:				7.2
Aroclor-1260	1	11.045	0.000	52009	98.7	1	11.655	0.002	31282	99.8
Aroclor-1260	2	11.362	0.001	55116	100.1	2	11.920	0.003	80574	100.7
Aroclor-1260	3	11.738	0.004	145604	99.7	3	12.437	0.002	19566	92.2
Aroclor-1260	4	12.141	0.002	72408	98.5	4	12.503	0.001	53588	99.4
Aroclor-1260	5	12.245	0.001	30745	97.2	NS	---			----
Total Col1Ave (5 peaks):					98.8	Total Col2Ave (4 peaks):				98.0 RPD = 1
Corrected Ave (4 peaks):					98.5	Corrected Ave (3 peaks):				97.1 RPD = 1
CalAmt %D:					-1.2	CalAmt %D:				-2.0

Total PCB Area Col1 (5.906 - 13.793) = 1555762 Col1 Total PCB = 0.2 ppm*

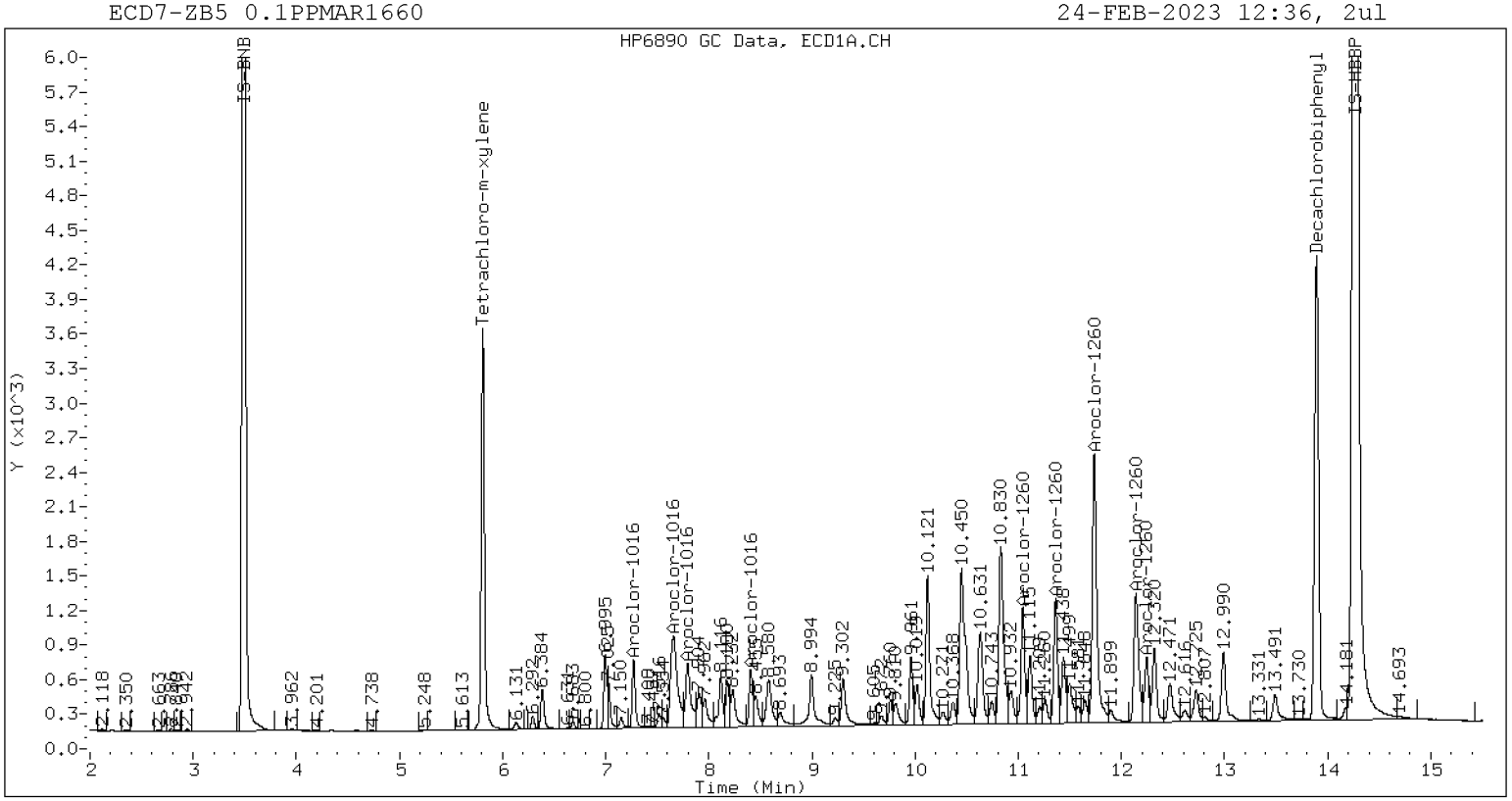
Total PCB Area Col2 (5.785 - 14.019) = 764924 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

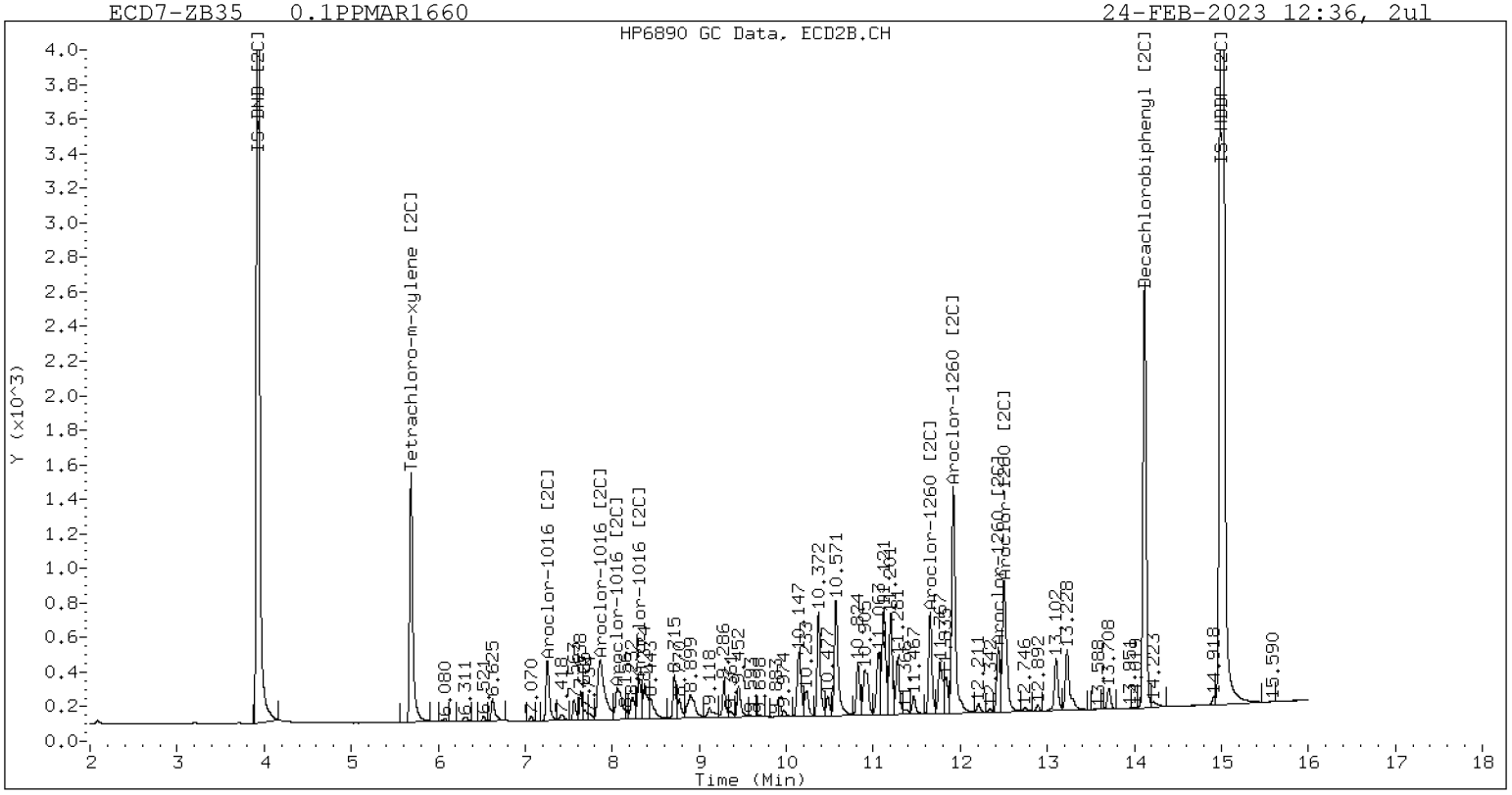
PCB Dual Column Chromatograms

ECD7-ZB5 0.1PPMAR1660 24-FEB-2023 12:36, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.1PPMAR1660 24-FEB-2023 12:36, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242307ECD7.D
Data file 2: /230224.b/230224.b/02242307ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.5PPMAR1660
Client ID:
Injection Date: 24-FEB-2023 12:57
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.810	0.004	724614	5.688	0.003	359257	75.2	76.7	2.0	Tetrachloro-m-xylene
13.898	0.005	1056911	14.120	0.000	650153	74.3	79.5	6.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	645275	-4.2
Hexabromobiphenyl	1429847	1445345	1.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	319170	1.2
Hexabromobiphenyl	513946	536853	4.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.270	0.000	115193	470.0	1	7.256	0.000	86287	461.8
Aroclor-1016	2	7.654	0.000	369991	495.2	2	7.856	0.000	192524	508.1
Aroclor-1016	3	7.790	0.000	160952	441.3	3	8.055	0.000	81039	473.6
Aroclor-1016	4	8.405	0.000	115032	487.9	4	8.307	0.000	62136	462.8
Total Col1Ave (4 peaks):					473.6	Total Col2Ave (4 peaks):				476.6 RPD = 1
Corrected Ave (3 peaks):					466.4	Corrected Ave (3 peaks):				466.1 RPD = 0
CalAmt %D:					-5.3	CalAmt %D:				-4.7
Aroclor-1260	1	11.044	0.000	247212	475.5	1	11.653	0.000	145247	460.1
Aroclor-1260	2	11.361	0.000	262877	483.9	2	11.918	0.000	379838	471.5
Aroclor-1260	3	11.734	0.000	678830	471.1	3	12.436	0.000	104092	486.9
Aroclor-1260	4	12.139	0.000	356067	490.7	4	12.502	0.000	258953	476.9
Aroclor-1260	5	12.244	0.000	150280	481.2	NS	---			----
Total Col1Ave (5 peaks):					480.5	Total Col2Ave (4 peaks):				473.8 RPD = 1
Corrected Ave (4 peaks):					477.9	Corrected Ave (3 peaks):				469.5 RPD = 2
CalAmt %D:					-3.9	CalAmt %D:				-5.2

Total PCB Area Col1 (5.906 - 13.793) = 7134169 Col1 Total PCB = 0.9 ppm*

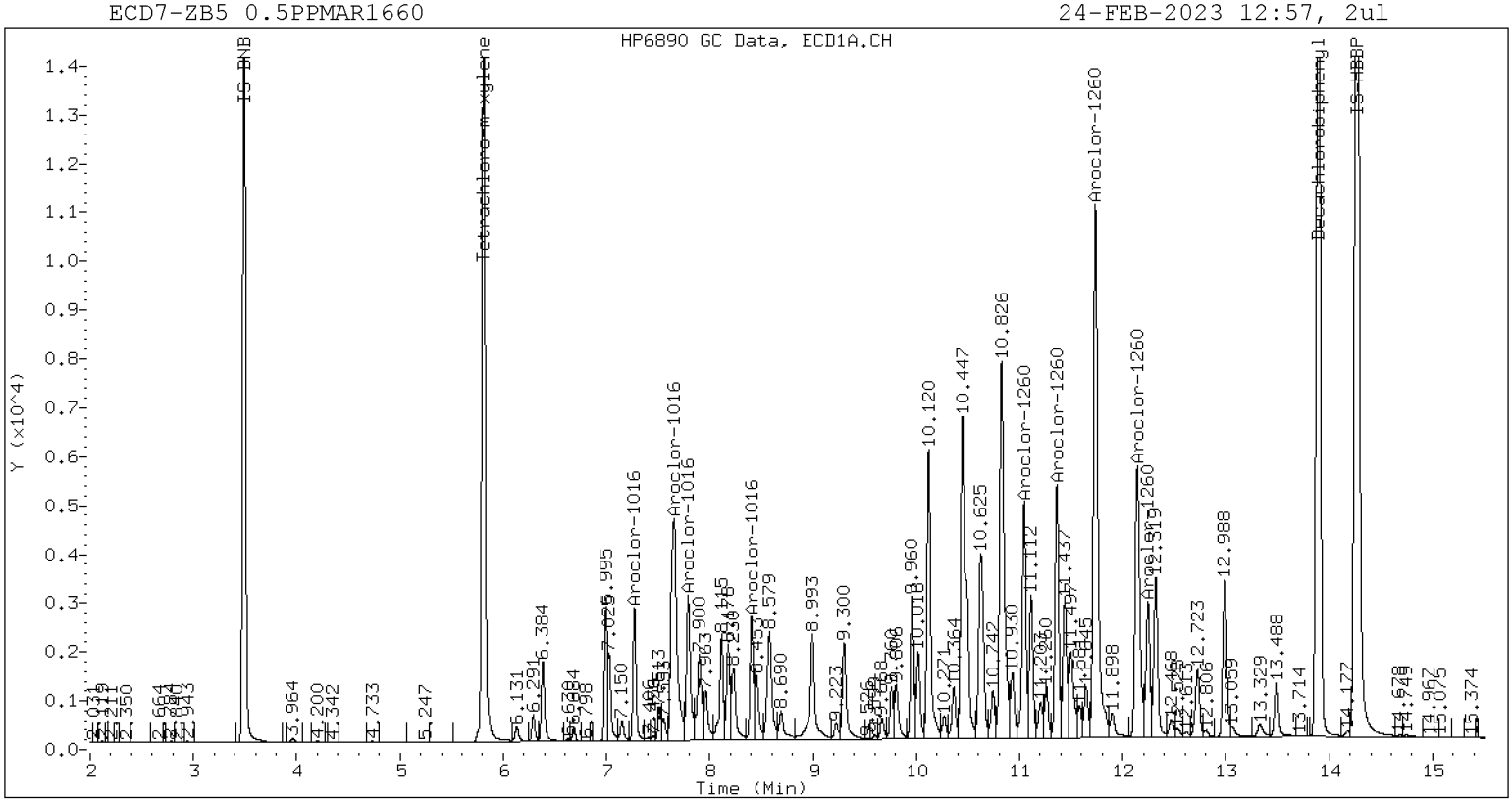
Total PCB Area Col2 (5.785 - 14.019) = 3589735 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

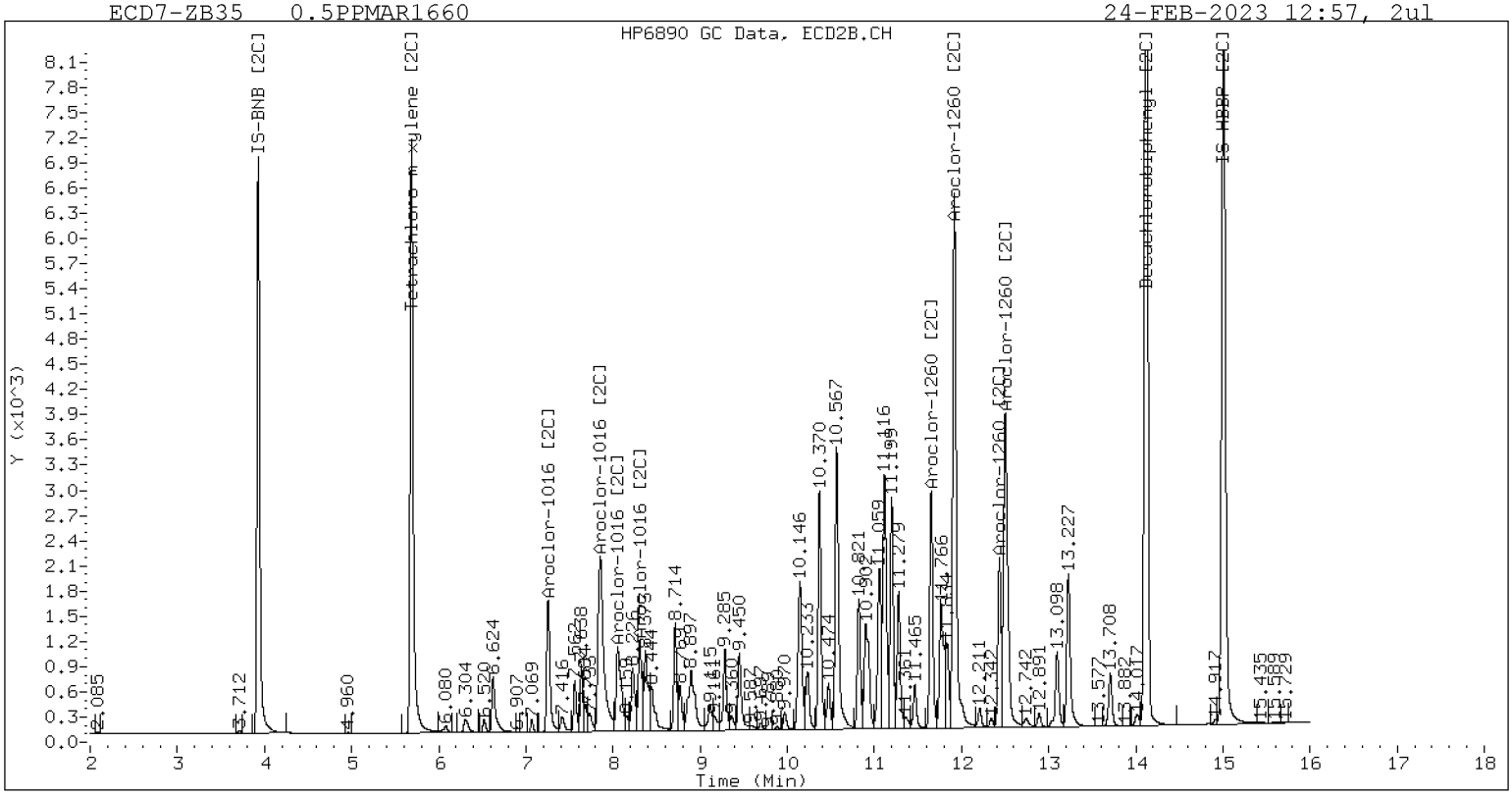
PCB Dual Column Chromatograms

ECD7-ZB5 0.5PPMAR1660 24-FEB-2023 12:57, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.5PPMAR1660 24-FEB-2023 12:57, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242308ECD7.D
Data file 2: /230224.b/230224.b/02242308ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR1242
Client ID:
Injection Date: 24-FEB-2023 13:18
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.003	434187	5.688	0.003	214306	46.0	46.5	1.1	Tetrachloro-m-xylene
13.894	0.000	515867	14.119	-0.001	312943	35.6	38.5	7.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	632576	-6.1
Hexabromobiphenyl	1429847	1469715	2.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	314129	-0.4
Hexabromobiphenyl	513946	534294	4.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.271	0.000	49009	250.0	1	7.255	0.000	36487	250.0
Aroclor-1242	2	7.656	0.000	148833	250.0	2	7.858	0.000	76699	250.0
Aroclor-1242	3	8.405	0.000	46308	250.0	3	9.167	0.000	23866	250.0
Aroclor-1242	4	8.579	0.000	68453	250.0	4	9.597	0.000	29080	250.0

Total Col1Ave (4 peaks): 250.0 Total Col2Ave (4 peaks): 250.0 RPD = 0

Corrected Ave (3 peaks): 250.0 Corrected Ave (3 peaks): 250.0 RPD = 0

Total PCB Area Col1 (5.906 - 13.793) = 1221467 Col1 Total PCB = 0.2 ppm*

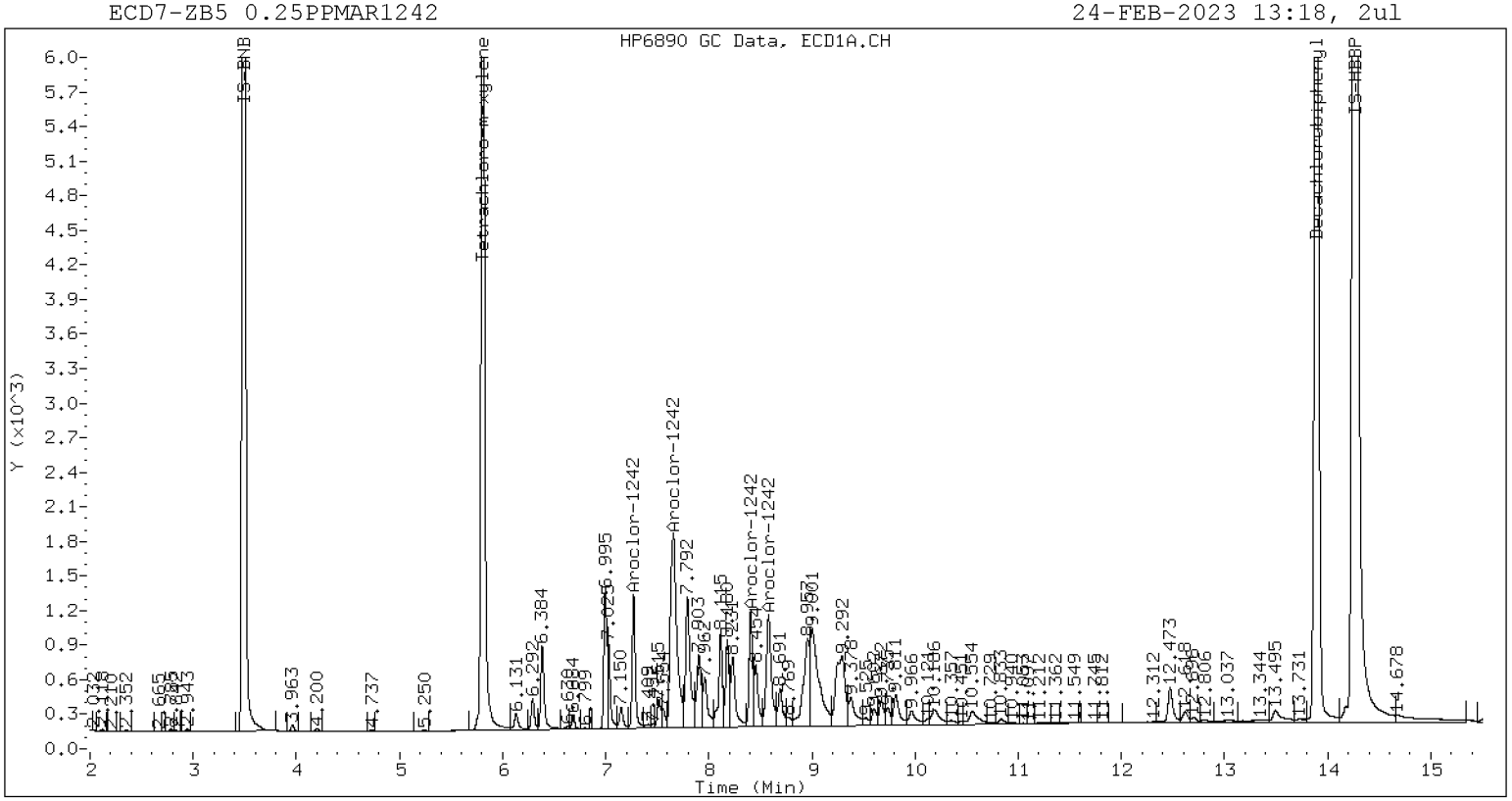
Total PCB Area Col2 (5.785 - 14.019) = 572067 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

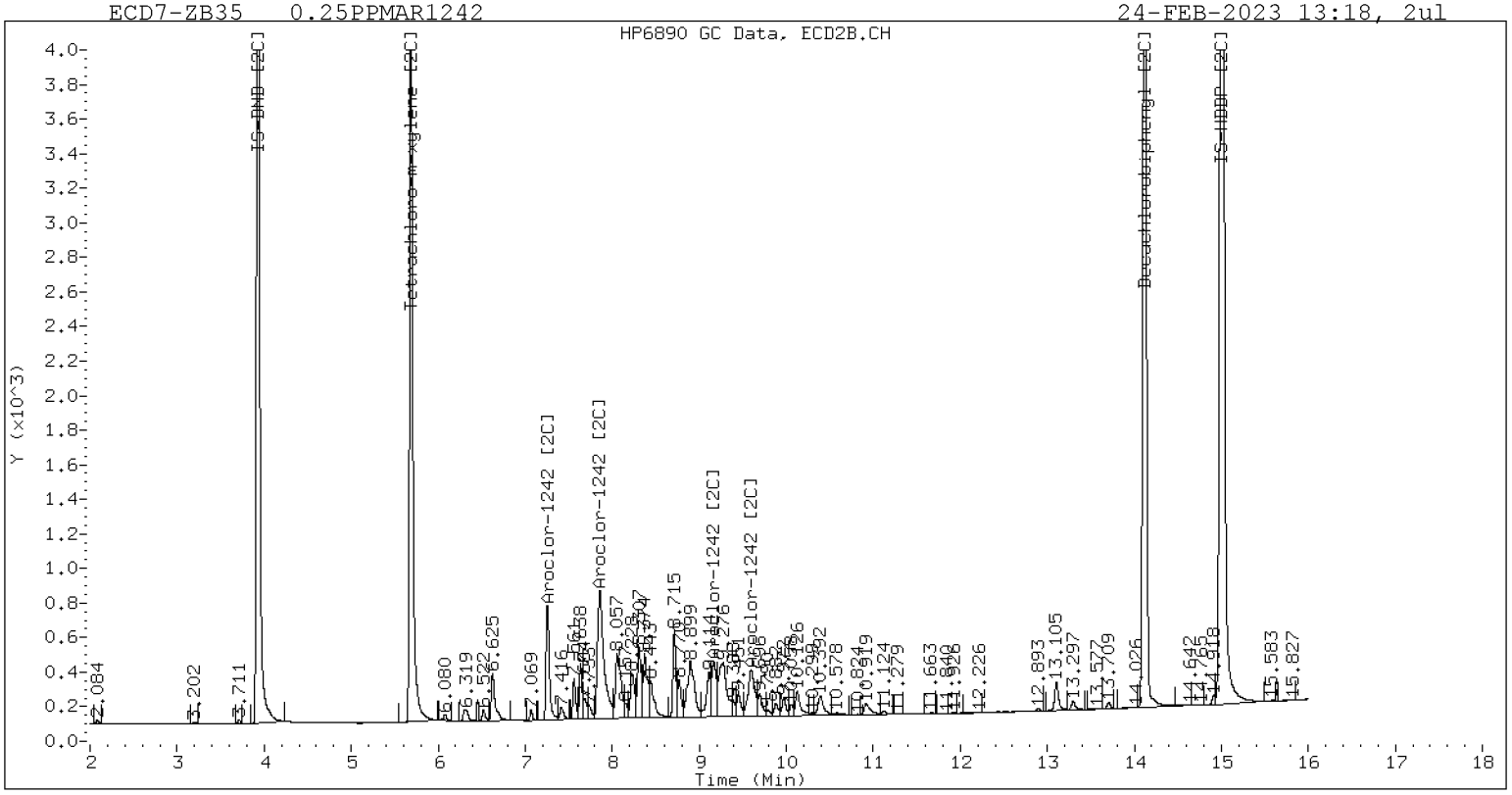
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1242 24-FEB-2023 13:18, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR1242 24-FEB-2023 13:18, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242309ECD7.D
Data file 2: /230224.b/230224.b/02242309ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR1248
Client ID:
Injection Date: 24-FEB-2023 13:39
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.003	349513	5.688	0.003	176615	36.6	37.9	3.4	Tetrachloro-m-xylene
13.894	0.001	523008	14.121	0.001	322054	36.4	39.3	7.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	639911	-5.0
Hexabromobiphenyl	1429847	1458696	2.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	317938	0.9
Hexabromobiphenyl	513946	538760	4.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.405	0.000	78055	250.0	1	8.308	0.000	37951	250.0
Aroclor-1248	2	8.580	0.000	99216	250.0	2	8.714	0.000	39239	250.0
Aroclor-1248	3	8.999	0.000	187178	250.0	3	9.166	0.000	45157	250.0
Aroclor-1248	4	9.295	0.000	95291	250.0	4	9.590	0.000	54216	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.906 - 13.793) = 1565180 Col1 Total PCB = 0.2 ppm*

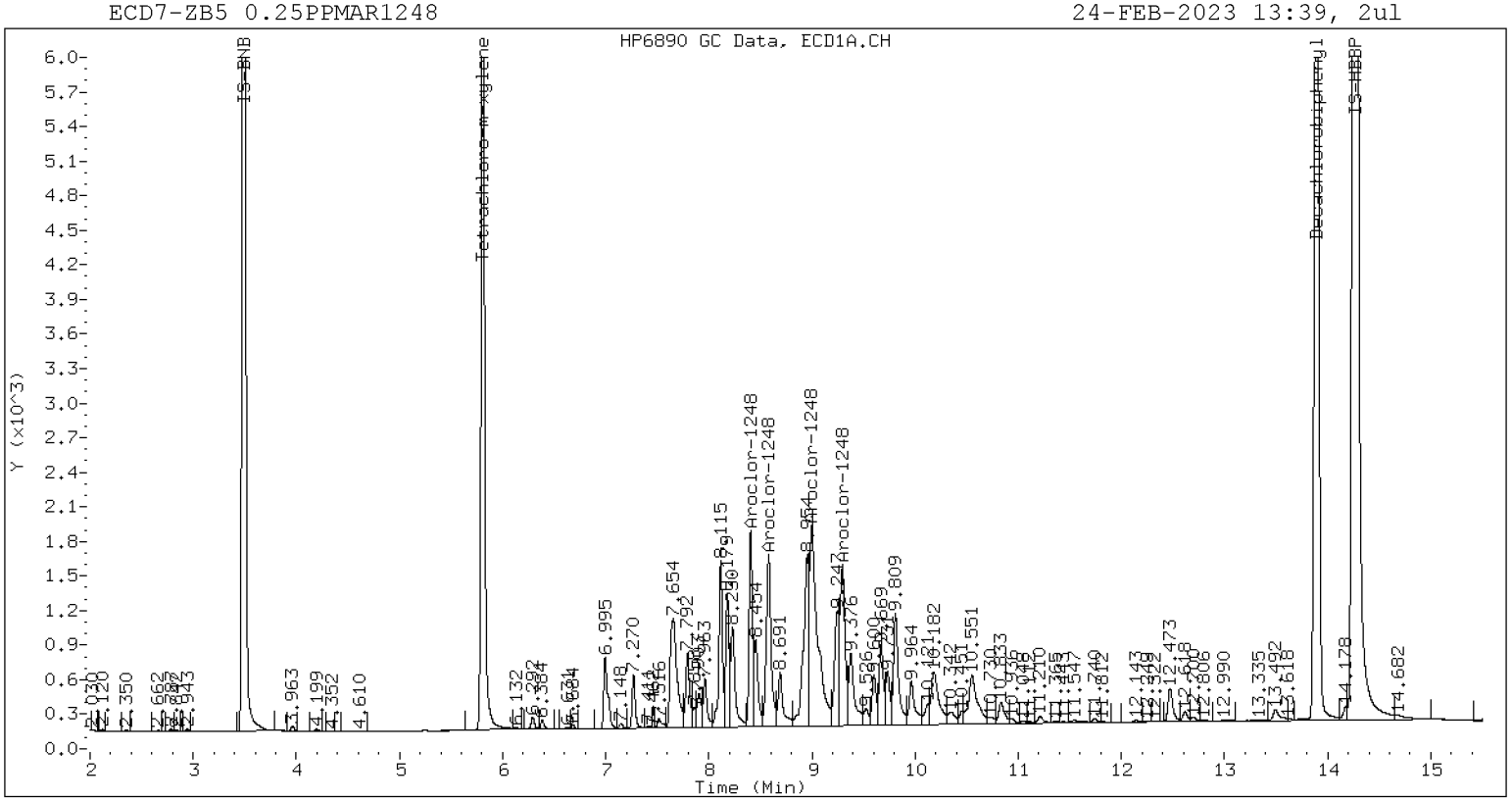
Total PCB Area Col2 (5.785 - 14.019) = 754991 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

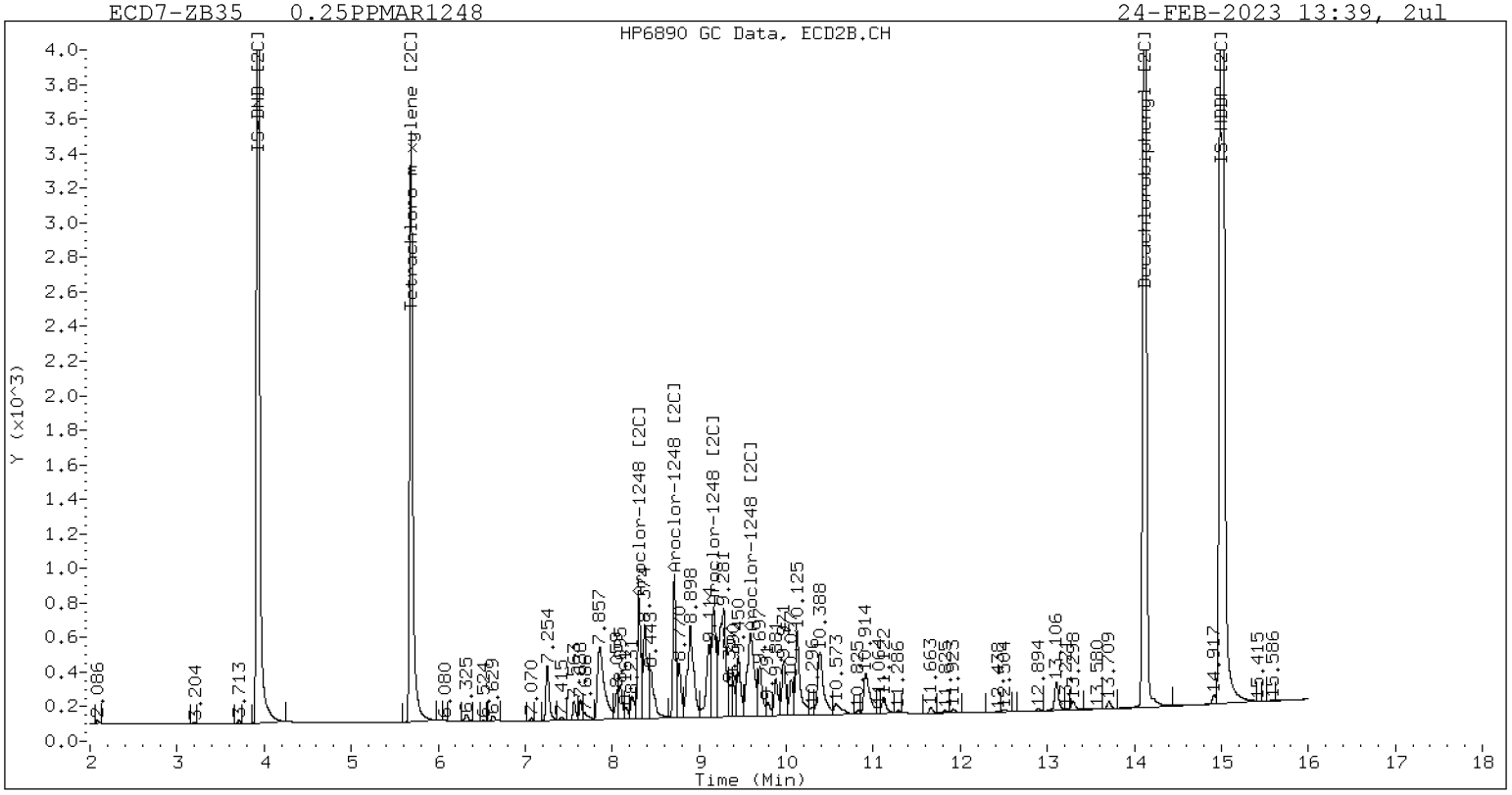
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1248 24-FEB-2023 13:39, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR1248 24-FEB-2023 13:39, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242310ECD7.D
Data file 2: /230224.b/230224.b/02242310ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR1254
Client ID:
Injection Date: 24-FEB-2023 14:00
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.808	0.002	352587	5.687	0.002	177502	37.3	38.6	3.4	Tetrachloro-m-xylene
13.895	0.002	532500	14.119	0.000	325903	37.0	40.2	8.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	633407	-6.0
Hexabromobiphenyl	1429847	1460265	2.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	313673	-0.5
Hexabromobiphenyl	513946	532442	3.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.299	0.000	159011	250.0	1	9.449	0.000	59603	250.0
Aroclor-1254	2	9.377	0.000	71516	250.0	2	9.970	0.000	47949	250.0
Aroclor-1254	3	9.668	0.000	102230	250.0	3	10.124	0.000	103745	250.0
Aroclor-1254	4	9.807	0.000	198777	250.0	4	10.373	0.000	101135	250.0
Aroclor-1254	5	10.176	0.000	124586	250.0	5	10.569	0.000	61577	250.0

Total Col1Ave (5 peaks): 250.0 Total Col2Ave (5 peaks): 250.0 RPD = 0

Corrected Ave (4 peaks): 250.0 Corrected Ave (4 peaks): 250.0 RPD = 0

Total PCB Area Col1 (5.906 - 13.793) = 2179224 Col1 Total PCB = 0.3 ppm*

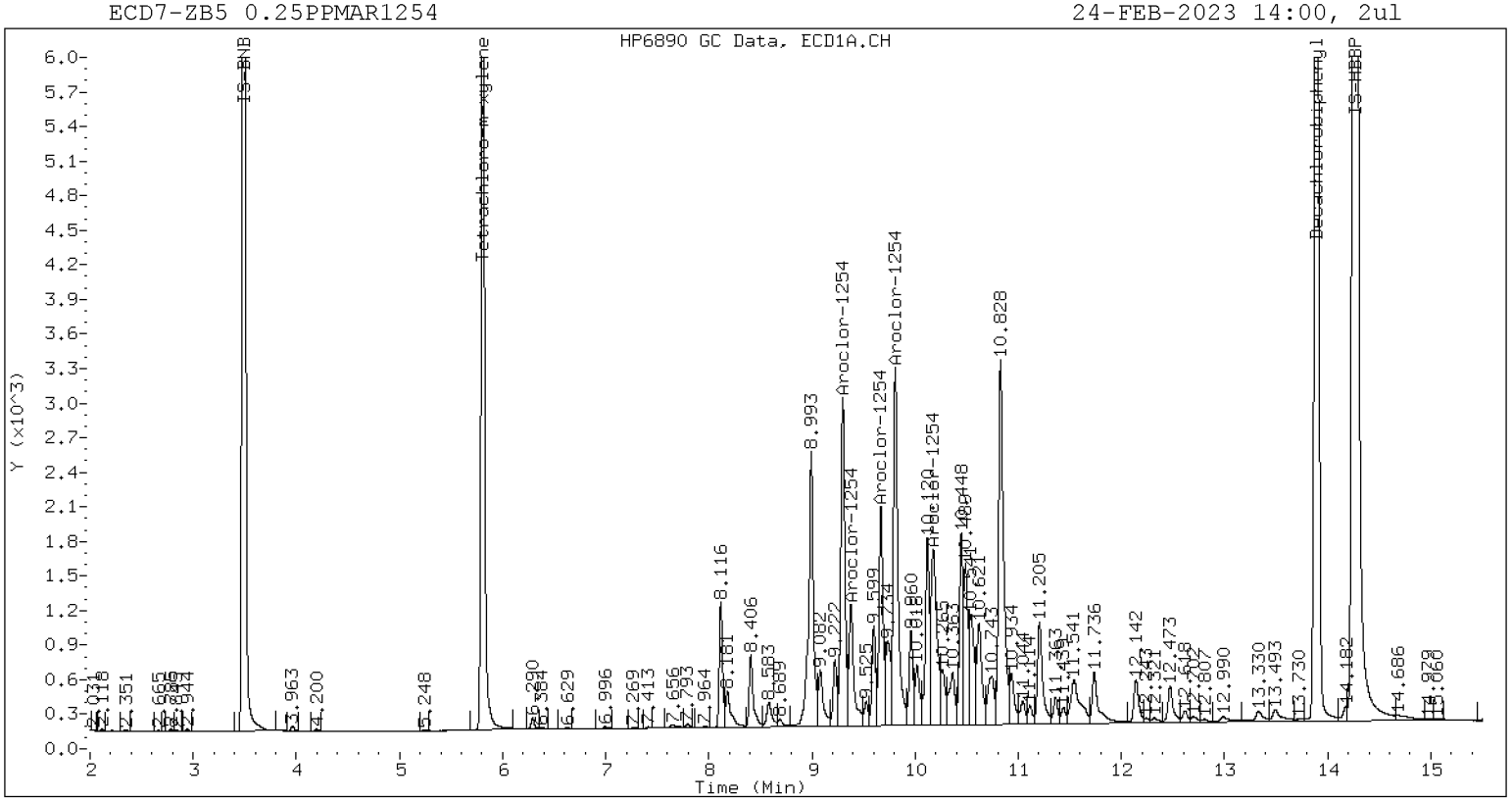
Total PCB Area Col2 (5.785 - 14.019) = 1022156 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

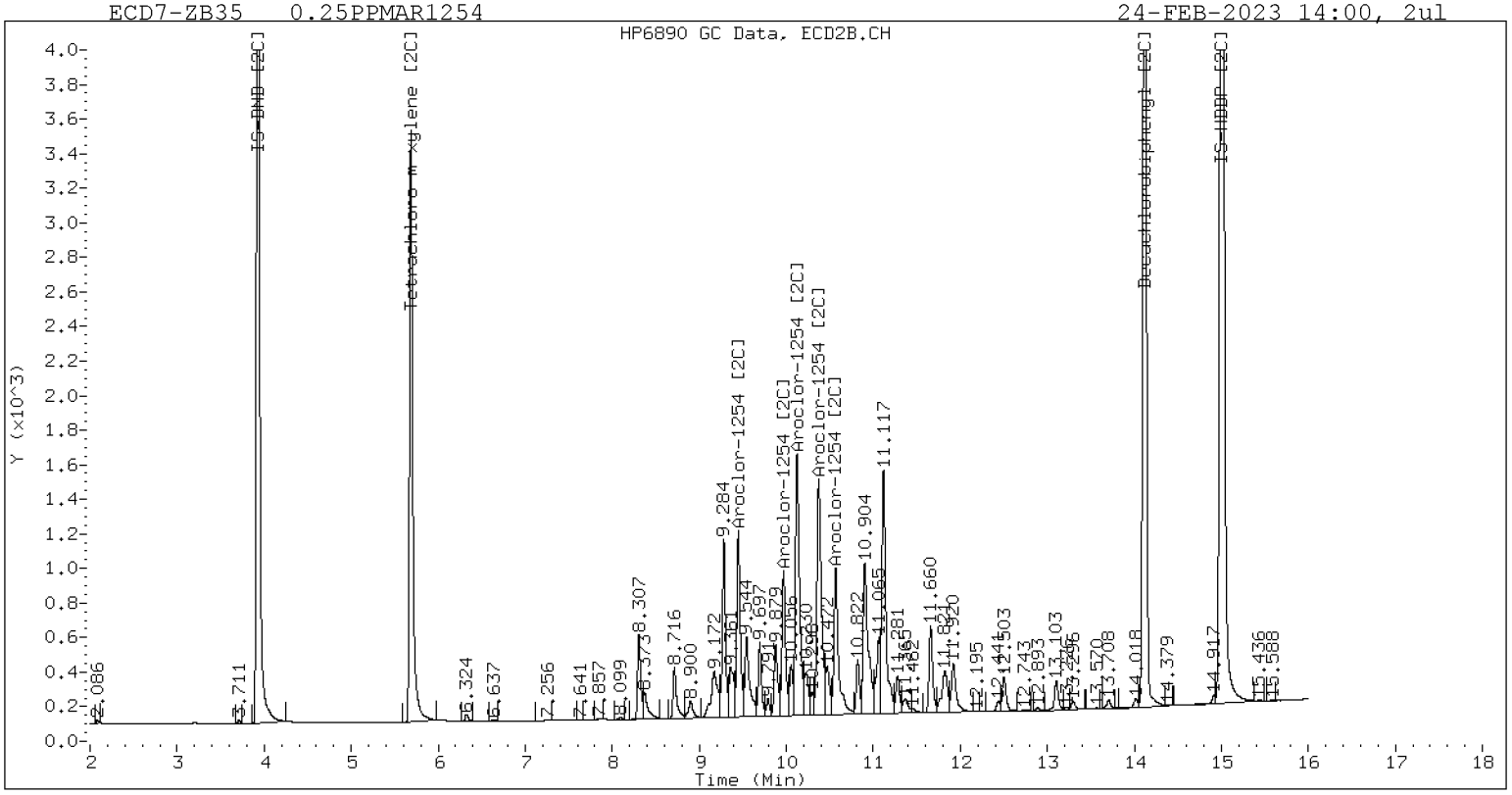
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1254 24-FEB-2023 14:00, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR1254 24-FEB-2023 14:00, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242311ECD7.D
Data file 2: /230224.b/230224.b/02242311ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR2162.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR2162
Client ID:
Injection Date: 24-FEB-2023 14:21
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.807	0.001	362236	5.686	0.000	177349	38.4	39.2	2.1	Tetrachloro-m-xylene
13.894	0.001	523254	14.119	-0.000	321034	36.0	39.2	8.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	632433	-6.1
Hexabromobiphenyl	1429847	1474039	3.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	308453	-2.2
Hexabromobiphenyl	513946	538177	4.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1221	1	4.731	0.000	14160	250.0	1	4.956	0.000	7300	250.0
Aroclor-1221	2	6.132	0.000	25324	250.0	2	6.296	0.000	13816	250.0
Aroclor-1221	3	6.382	0.000	58795	250.0	3	6.622	0.000	22491	250.0
Total Col1Ave (3 peaks):					250.0	Total Col2Ave (3 peaks):				250.0 RPD = 0
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1262	1	10.829	0.000	113046	250.0	1	11.200	0.000	114880	250.0
Aroclor-1262	2	12.244	0.000	183948	250.0	2	11.652	0.000	97844	250.0
Aroclor-1262	3	12.319	0.000	197749	250.0	3	12.434	0.000	111015	250.0
Aroclor-1262	4	12.987	0.000	180727	250.0	4	12.502	0.000	173913	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.906 - 13.793) = 3105316 Col1 Total PCB = 0.4 ppm*

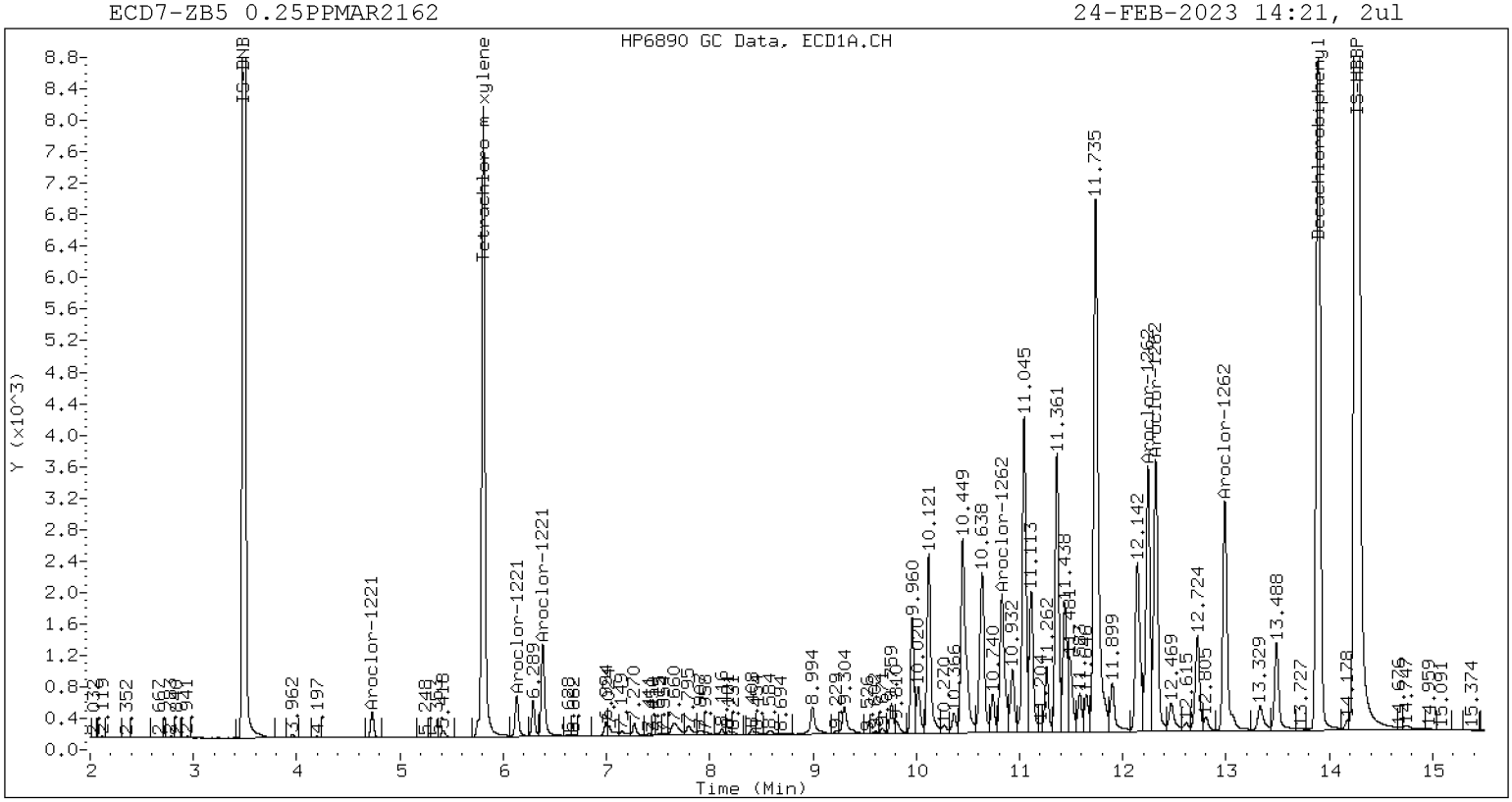
Total PCB Area Col2 (5.785 - 14.019) = 1573107 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

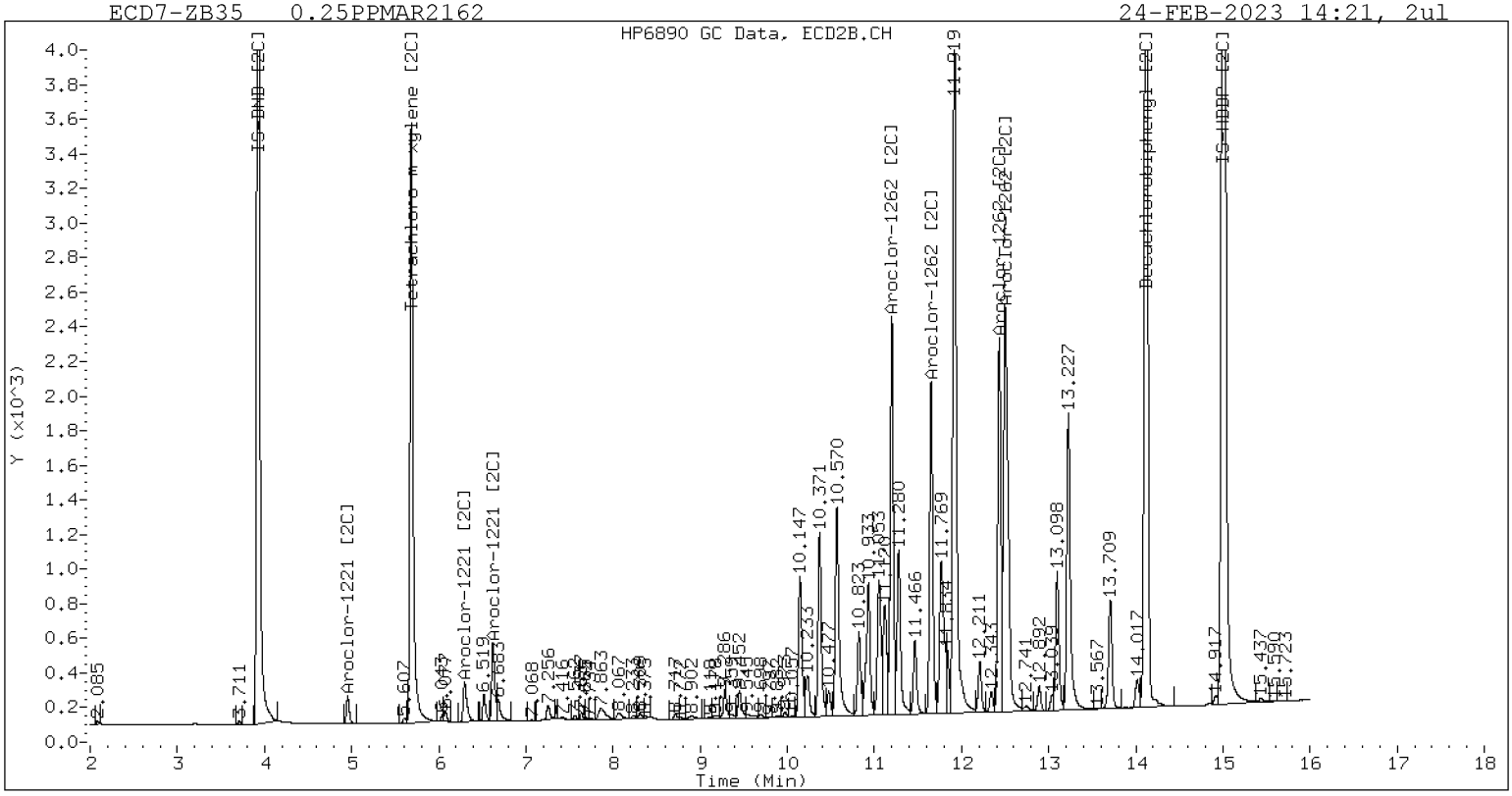
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR2162 24-FEB-2023 14:21, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR2162 24-FEB-2023 14:21, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242312ECD7.D
Data file 2: /230224.b/230224.b/02242312ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR3268.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR3268
Client ID:
Injection Date: 24-FEB-2023 14:42
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.806	0.000	366416	5.685	0.000	179450	38.0	38.9	2.4	Tetrachloro-m-xylene
13.893	0.000	778191	14.119	0.000	477889	53.0	57.5	8.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	645602	-4.2
Hexabromobiphenyl	1429847	1492154	4.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	314042	-0.4
Hexabromobiphenyl	513946	545458	6.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1232	1	4.730	0.000	8647	250.0	1	4.956	0.000	4017	250.0
Aroclor-1232	2	6.131	0.000	17148	250.0	2	7.254	0.000	19962	250.0
Aroclor-1232	3	7.656	0.000	77627	250.0	3	7.861	0.000	39913	250.0
Aroclor-1232	4	8.581	0.000	32993	250.0	4	8.715	0.000	11487	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0
Aroclor-1268	1	12.247	0.000	477974	250.0	1	12.432	0.000	274595	250.0
Aroclor-1268	2	12.317	0.000	473326	250.0	2	12.500	0.000	295194	250.0
Aroclor-1268	3	12.699	0.000	405011	250.0	3	12.892	0.000	252048	250.0
Aroclor-1268	4	13.490	0.000	1333528	250.0	4	13.709	0.000	805579	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.906 - 13.793) = 3998414 Col1 Total PCB = 0.5 ppm*

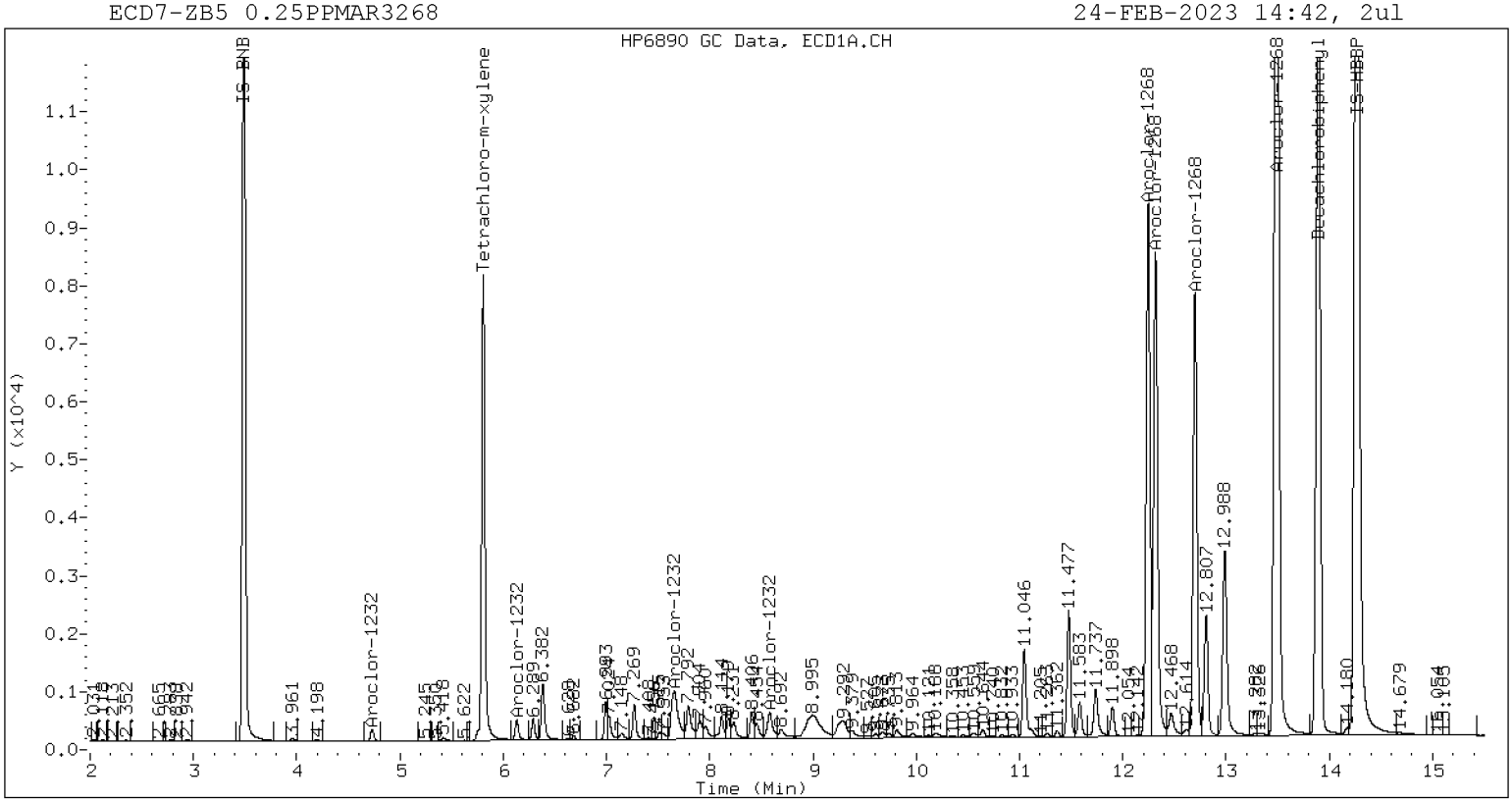
Total PCB Area Col2 (5.785 - 14.019) = 2300029 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

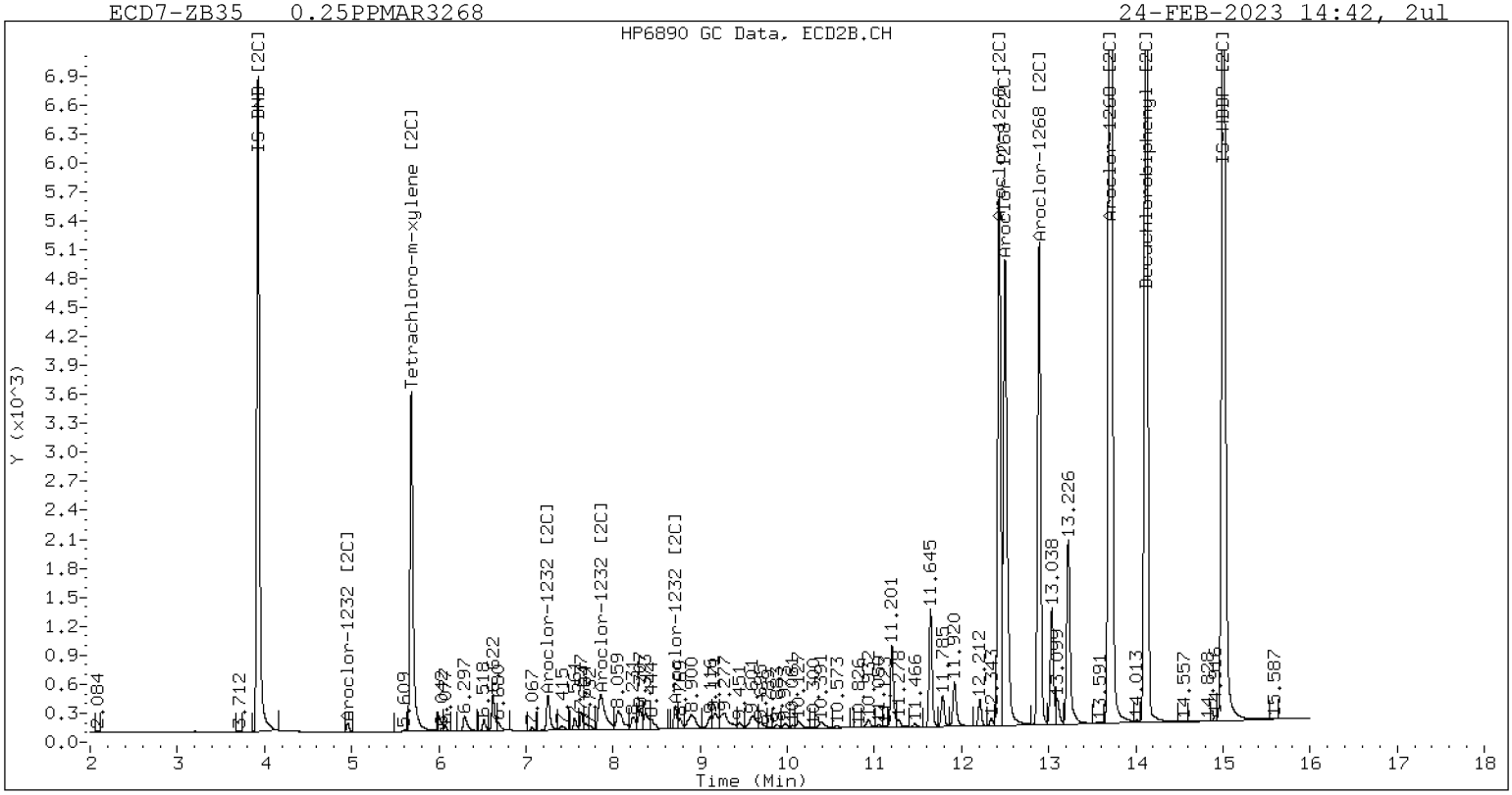
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR3268 24-FEB-2023 14:42, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR3268 24-FEB-2023 14:42, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242313ECD7.D
Data file 2: /230224.b/230224.b/02242313ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660SCV
Client ID:
Injection Date: 24-FEB-2023 15:03
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.807	0.001	337070	5.686	0.001	165848	34.9	35.8	2.3	Tetrachloro-m-xylene
13.895	0.002	515407	14.119	-0.000	316730	34.3	37.3	8.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	645975	-4.1
Hexabromobiphenyl	1429847	1524245	6.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	316115	0.3
Hexabromobiphenyl	513946	556950	8.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.269	-0.002	59491	242.5	1	7.254	-0.002	44576	240.9
Aroclor-1016	2	7.655	0.001	181090	242.1	2	7.857	0.002	95386	254.2
Aroclor-1016	3	7.790	0.000	88470	242.3	3	8.056	0.002	42160	248.8
Aroclor-1016	4	8.404	-0.001	57980	245.6	4	8.307	0.000	32197	242.1
Total Col1Ave (4 peaks):					243.1	Total Col2Ave (4 peaks):				246.5 RPD = 1
Corrected Ave (3 peaks):					242.3	Corrected Ave (3 peaks):				243.9 RPD = 1
Aroclor-1221	1	4.731	0.000	464	8.0	1	---			0.0
Aroclor-1221	2	6.130	-0.002	9233	89.2	2	6.300	0.004	5379	95.0
Aroclor-1221	3	6.382	-0.001	42570	177.2	3	6.623	0.001	20952	227.2
Total Col1Ave (3 peaks):					91.5	Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	4.731	0.001	464	13.4	1	---			0.0
Aroclor-1232	2	6.130	-0.001	9233	134.5	2	7.254	-0.000	44576	554.6
Aroclor-1232	3	7.655	-0.001	181090	582.9	3	7.857	-0.003	95386	593.5
Aroclor-1232	4	8.580	-0.001	79916	605.2	4	8.713	-0.002	29795	644.2
Total Col1Ave (4 peaks):					334.0	Total Col2Ave (3 peaks):				597.4 RPD = 57*
Corrected Ave (3 peaks):					243.6	Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.269	-0.002	59491	297.2	1	7.254	-0.002	44576	303.5
Aroclor-1242	2	7.655	-0.001	181090	297.9	2	7.857	-0.000	95386	309.0
Aroclor-1242	3	8.404	-0.001	57980	306.5	3	9.115	-0.052	18754	195.2
Aroclor-1242	4	8.580	0.000	79916	285.8	4	9.697	0.100	1355	11.6
Total Col1Ave (4 peaks):					296.8	Total Col2Ave (4 peaks):				204.8 RPD = 37
Corrected Ave (3 peaks):					293.6	Corrected Ave (3 peaks):				170.1 RPD = 53*
Aroclor-1248	1	8.404	-0.001	57980	184.0	1	8.307	-0.001	32197	213.3
Aroclor-1248	2	8.580	-0.001	79916	199.5	2	8.713	-0.001	29795	190.9
Aroclor-1248	3	8.993	-0.006	71805	95.0	3	9.115	-0.050	18754	104.4
Aroclor-1248	4	9.300	0.006	47348	123.1	4	---			0.0
Total Col1Ave (4 peaks):					150.4	Total Col2Ave (3 peaks):				169.6 RPD = 12
Corrected Ave (3 peaks):					134.0	Corrected Ave: < 3 Peaks				
Aroclor-1254	1	9.300	0.002	47348	73.0	1	9.451	0.001	22438	93.4
Aroclor-1254	2	---			0.0	2	9.972	0.001	2694	13.9
Aroclor-1254	3	9.670	0.002	5461	13.1	3	10.147	0.024	52914	126.5
Aroclor-1254	4	9.807	-0.000	18944	23.4	4	10.370	-0.003	70430	172.8
Aroclor-1254	5	10.121	-0.056	154170	303.3	5	10.568	-0.000	98525	396.9
Total Col1Ave (4 peaks):					103.2	Total Col2Ave (5 peaks):				160.7 RPD = 44*
Corrected Ave (3 peaks):					36.5	Corrected Ave (4 peaks):				101.7 RPD = 94*
Aroclor-1260	1	11.044	0.000	149195	272.1	1	11.653	0.000	82210	251.0
Aroclor-1260	2	11.361	-0.000	153832	268.5	2	11.919	0.001	222226	265.9
Aroclor-1260	3	11.736	0.002	396660	261.0	3	12.435	-0.000	59148	266.7
Aroclor-1260	4	12.140	0.001	190448	248.9	4	12.504	0.002	147180	261.2
Aroclor-1260	5	12.244	-0.000	91385	277.5	NS	---			----
Total Col1Ave (5 peaks):					265.6	Total Col2Ave (4 peaks):				261.2 RPD = 2
Corrected Ave (4 peaks):					262.6	Corrected Ave (3 peaks):				259.4 RPD = 1
Aroclor-1262	1	10.827	-0.002	220238	471.0	1	11.199	-0.001	84479	177.6
Aroclor-1262	2	12.244	0.000	91385	120.1	2	11.653	0.002	82210	203.0
Aroclor-1262	3	12.320	0.001	113066	138.2	3	12.435	0.002	59148	128.7
Aroclor-1262	4	12.988	0.001	102156	136.7	4	12.504	0.002	147180	204.4
Total Col1Ave (4 peaks):					216.5	Total Col2Ave (4 peaks):				178.4 RPD = 19
Corrected Ave (3 peaks):					131.7	Corrected Ave (3 peaks):				169.8 RPD = 25
Aroclor-1268	1	12.244	-0.003	91385	46.8	1	12.435	0.003	59148	52.7
Aroclor-1268	2	12.320	0.003	113066	58.5	2	12.504	0.004	147180	122.1
Aroclor-1268	3	12.726	0.027	46633	28.2	3	12.893	0.001	2874	2.8
Aroclor-1268	4	13.489	-0.000	25567	4.7	4	13.709	-0.000	13041	4.0
Total Col1Ave (4 peaks):					34.5	Total Col2Ave (4 peaks):				45.4 RPD = 27
Corrected Ave (3 peaks):					26.6	Corrected Ave (3 peaks):				19.8 RPD = 29

Total PCB Area Col1 (5.906 - 13.793) = 3743076 Col1 Total PCB = 0.5 ppm*

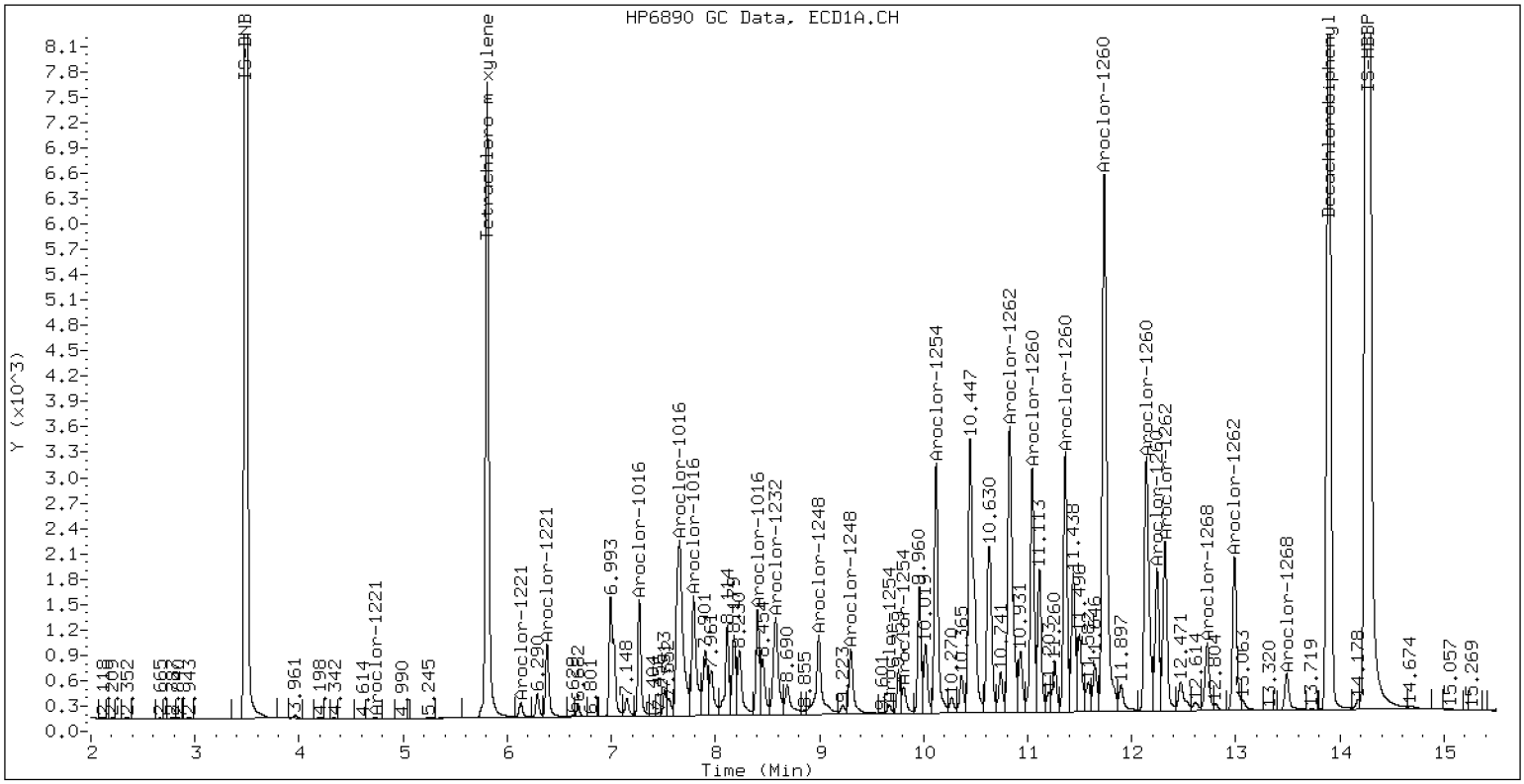
Total PCB Area Col2 (5.785 - 14.019) = 1897008 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

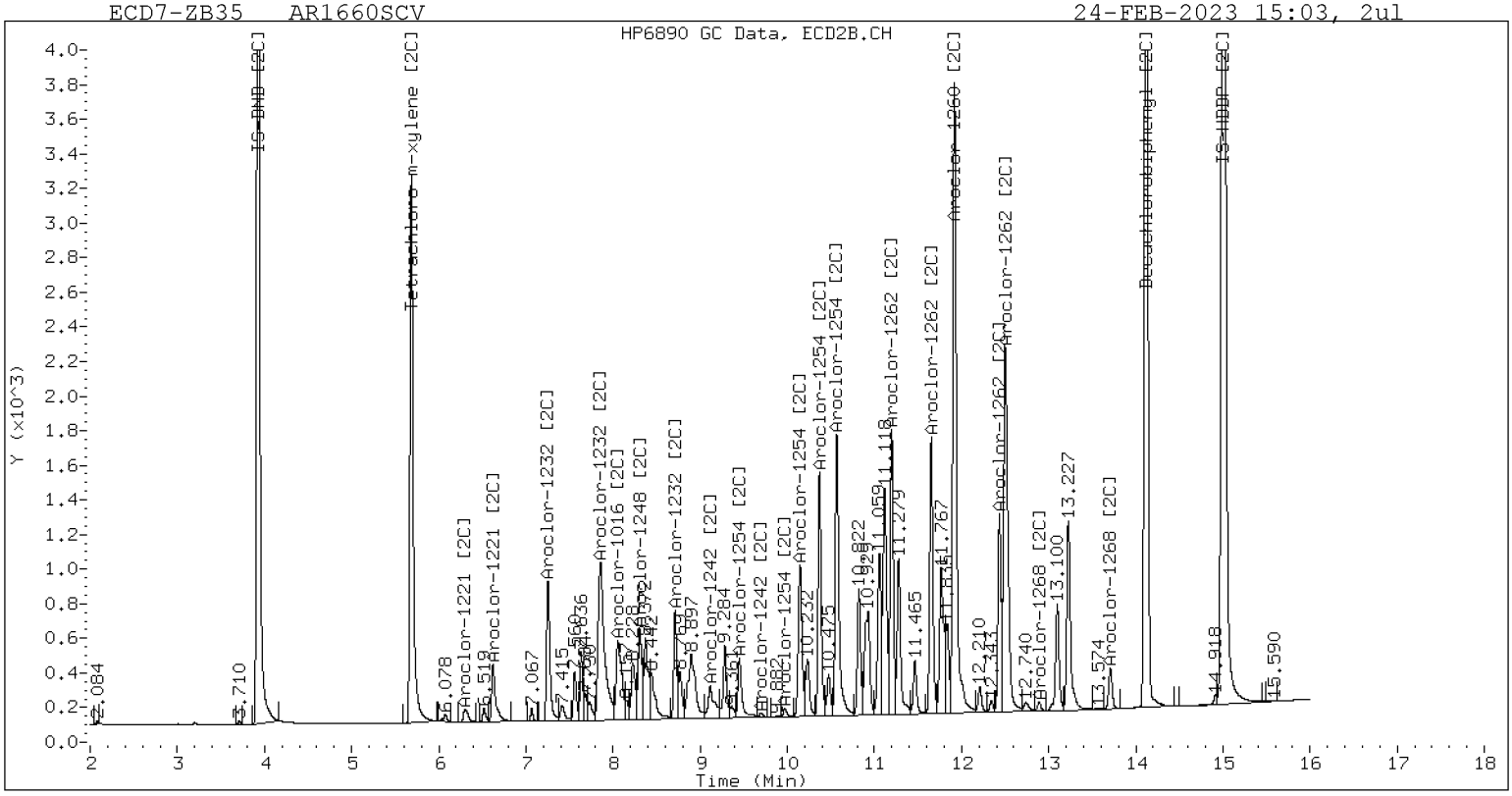
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660SCV 24-FEB-2023 15:03, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660SCV 24-FEB-2023 15:03, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242314ECD7.D
Data file 2: /230224.b/230224.b/02242314ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242SCV
Client ID:
Injection Date: 24-FEB-2023 15:24
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.808	0.002	354283	5.686	0.001	172455	33.6	34.5	2.6	Tetrachloro-m-xylene
13.895	0.002	567088	14.120	0.001	347430	37.0	40.3	8.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	705650	4.7
Hexabromobiphenyl	1429847	1555683	8.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	340433	8.0
Hexabromobiphenyl	513946	565609	10.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.270	-0.000	39927	149.0	1	7.256	0.000	32417	162.7
Aroclor-1016	2	7.653	-0.001	132339	162.0	2	7.856	0.001	69235	171.3
Aroclor-1016	3	7.791	0.001	59310	148.7	3	8.055	0.000	29473	161.5
Aroclor-1016	4	8.405	0.000	42537	165.0	4	8.307	-0.000	22792	159.2
Total Col1Ave (4 peaks):					156.2	Total Col2Ave (4 peaks):				163.7 RPD = 5
Corrected Ave (3 peaks):					153.2	Corrected Ave (3 peaks):				161.1 RPD = 5
Aroclor-1221	1	4.733	0.002	319	5.0	1	---			0.0
Aroclor-1221	2	6.131	-0.001	6534	57.8	2	6.319	0.022	4365	71.6
Aroclor-1221	3	6.384	0.001	29664	113.0	3	6.624	0.002	14916	150.2
Total Col1Ave (3 peaks):					58.6	Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	4.733	0.003	319	8.4	1	---			0.0
Aroclor-1232	2	6.131	0.000	6534	87.2	2	7.256	0.002	32417	374.5
Aroclor-1232	3	7.653	-0.003	132339	389.9	3	7.856	-0.004	69235	400.0
Aroclor-1232	4	8.579	-0.002	69445	481.4	4	8.714	-0.001	22167	445.0
Total Col1Ave (4 peaks):					241.7	Total Col2Ave (3 peaks):				406.5 RPD = 51*
Corrected Ave (3 peaks):					161.8	Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.270	-0.001	39927	182.6	1	7.256	0.000	32417	205.0
Aroclor-1242	2	7.653	-0.003	132339	199.3	2	7.856	-0.002	69235	208.2
Aroclor-1242	3	8.405	-0.000	42537	205.9	3	9.164	-0.004	23068	223.0
Aroclor-1242	4	8.579	-0.000	69445	227.4	4	9.587	-0.010	31021	246.1
Total Col1Ave (4 peaks):					203.8	Total Col2Ave (4 peaks):				220.6 RPD = 8
Corrected Ave (3 peaks):					195.9	Corrected Ave (3 peaks):				212.1 RPD = 8
Aroclor-1248	1	8.405	0.000	42537	123.5	1	8.307	-0.001	22792	140.2
Aroclor-1248	2	8.579	-0.001	69445	158.7	2	8.714	-0.000	22167	131.9
Aroclor-1248	3	9.001	0.003	91942	111.4	3	9.164	-0.002	23068	119.3
Aroclor-1248	4	9.294	-0.000	38711	92.1	4	9.587	-0.003	31021	133.6
Total Col1Ave (4 peaks):					121.4	Total Col2Ave (4 peaks):				131.2 RPD = 8
Corrected Ave (3 peaks):					109.0	Corrected Ave (3 peaks):				128.3 RPD = 16
Aroclor-1254	1	9.294	-0.005	38711	54.6	1	9.450	0.001	13131	50.7
Aroclor-1254	2	9.377	-0.000	17371	54.5	2	9.970	0.000	8340	40.1
Aroclor-1254	3	9.668	-0.000	16373	35.9	3	10.123	-0.000	16364	36.3
Aroclor-1254	4	9.807	-0.001	27490	31.0	4	10.382	0.009	16062	36.6
Aroclor-1254	5	10.175	-0.001	20494	36.9	5	10.572	0.004	4818	18.0
Total Col1Ave (5 peaks):					42.6	Total Col2Ave (5 peaks):				36.4 RPD = 16
Corrected Ave (4 peaks):					39.6	Corrected Ave (4 peaks):				32.8 RPD = 19
Aroclor-1260	1	11.048	0.003	794	1.4	1	11.665	0.012	1652	5.0
Aroclor-1260	2	11.366	0.005	814	1.4	2	11.926	0.008	842	1.0
Aroclor-1260	3	11.739	0.006	1848	1.2	3	12.438	0.002	483	2.1
Aroclor-1260	4	12.145	0.006	1372	1.8	4	12.506	0.004	790	1.4
Aroclor-1260	5	---			0.0	NS	---			----
Total Col1Ave (4 peaks):					1.4	Total Col2Ave (4 peaks):				2.4 RPD = 49*
Corrected Ave (3 peaks):					1.3	Corrected Ave (3 peaks):				1.5 RPD = 12
Aroclor-1262	1	10.832	0.003	13157	27.6	1	11.121	-0.079	6113	12.7
Aroclor-1262	2	12.145	-0.098	1372	1.8	2	11.665	0.013	1652	4.0
Aroclor-1262	3	---			0.0	3	12.438	0.004	483	1.0
Aroclor-1262	4	13.038	0.051	842	1.1	4	12.506	0.004	790	1.1
Total Col1Ave (3 peaks):					10.1	Total Col2Ave (4 peaks):				4.7 RPD = 73*
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks):				2.0
Aroclor-1268	1	---			0.0	1	12.438	0.006	483	0.4
Aroclor-1268	2	---			0.0	2	12.506	0.006	790	0.6
Aroclor-1268	3	12.617	-0.082	5851	3.5	3	12.899	0.007	491	0.5
Aroclor-1268	4	13.500	0.010	1745	0.3	4	13.714	0.005	379	0.1
Col1Ave: <3 Quant Peaks						Col2Ave: 0.4				

Total PCB Area Col1 (5.906 - 13.793) = 1149784 Col1 Total PCB = 0.1 ppm*

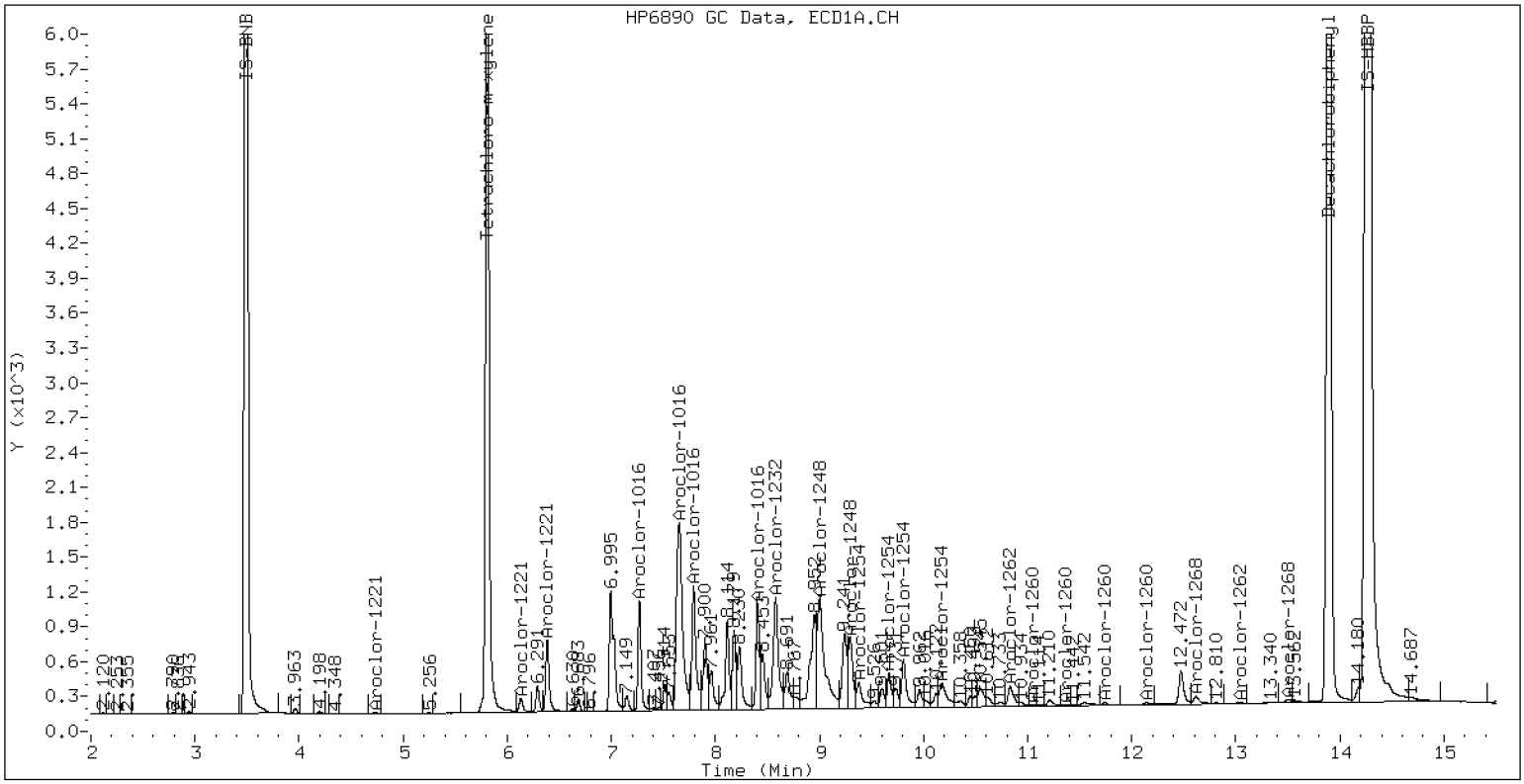
Total PCB Area Col2 (5.785 - 14.019) = 572210 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

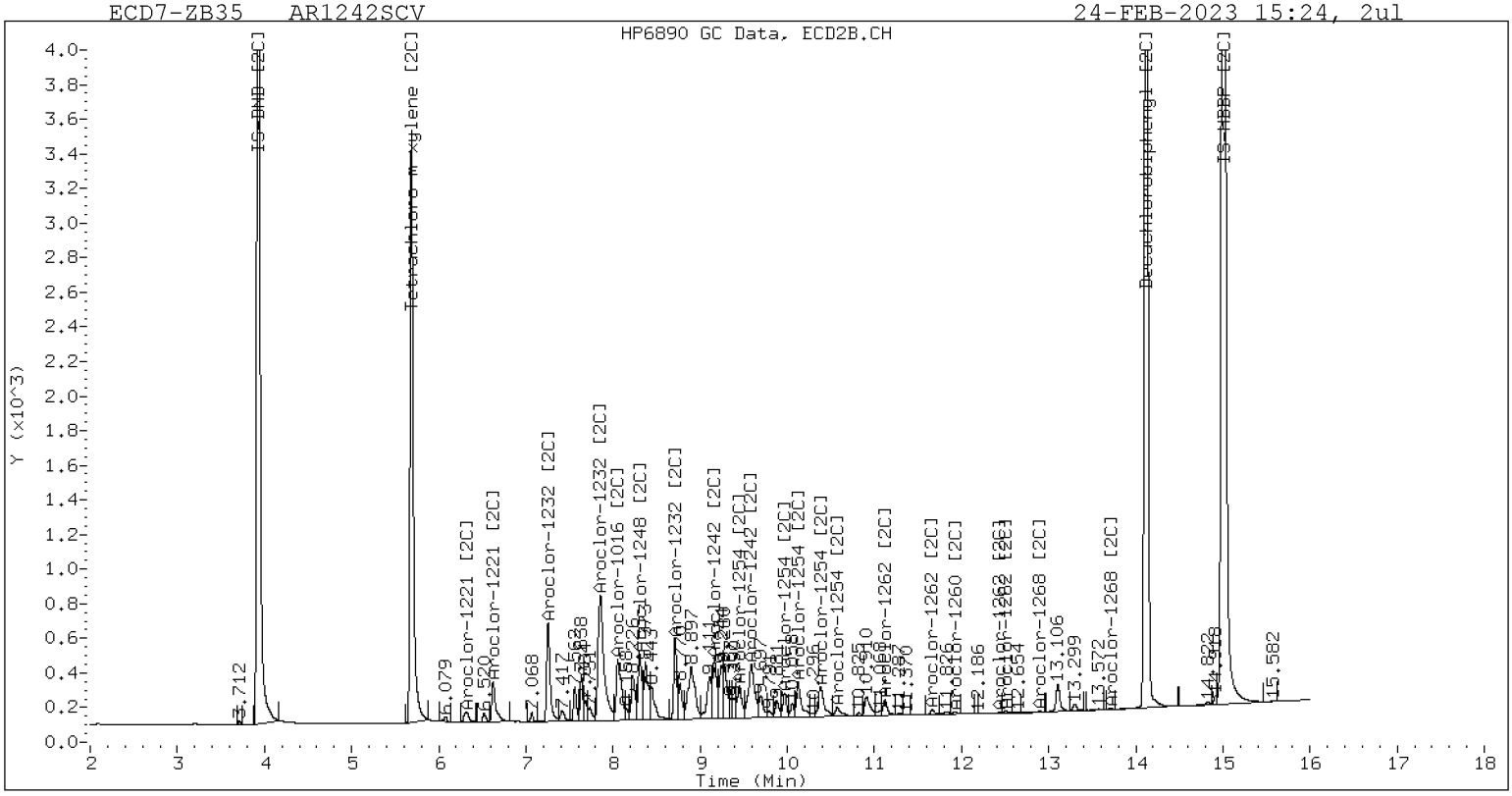
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242SCV 24-FEB-2023 15:24, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242SCV 24-FEB-2023 15:24, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242315ECD7.D
Data file 2: /230224.b/230224.b/02242315ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248SCV
Client ID:
Injection Date: 24-FEB-2023 15:45
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.002	336655	5.687	0.002	168719	34.9	36.4	4.2	Tetrachloro-m-xylene
13.894	0.001	499162	14.118	-0.001	308317	33.1	36.3	9.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	646554	-4.0
Hexabromobiphenyl	1429847	1529451	7.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	316066	0.3
Hexabromobiphenyl	513946	557213	8.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col					ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.271	0.000	19773	80.5	1	7.254	-0.002	16926	91.5
Aroclor-1016	2	7.653	-0.001	88099	117.7	2	7.857	0.001	45733	121.9
Aroclor-1016	3	7.794	0.003	35915	98.3	3	8.060	0.005	8078	47.7
Aroclor-1016	4	8.406	0.001	77842	329.5	4	8.307	0.000	37348	280.9
Total Col1Ave (4 peaks):					156.5	Total Col2Ave (4 peaks):				135.5 RPD = 14
Corrected Ave (3 peaks):					98.8	Corrected Ave (3 peaks):				87.0 RPD = 13
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	6.133	0.001	680	6.6	2	6.326	0.030	1966	34.7
Aroclor-1221	3	6.384	0.002	3390	14.1	3	6.631	0.009	1571	17.0
Col1Ave: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	6.133	0.002	680	9.9	2	7.254	-0.000	16926	210.6
Aroclor-1232	3	7.653	-0.002	88099	283.3	3	7.857	-0.004	45733	284.6
Aroclor-1232	4	8.581	-0.000	99572	753.4	4	8.714	-0.001	38224	826.6
Total Col1Ave (3 peaks):					348.9	Total Col2Ave (3 peaks):				440.6 RPD = 23
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.271	-0.000	19773	98.7	1	7.254	-0.002	16926	115.3
Aroclor-1242	2	7.653	-0.003	88099	144.8	2	7.857	-0.001	45733	148.2
Aroclor-1242	3	8.406	0.000	77842	411.2	3	9.165	-0.002	45021	468.7
Aroclor-1242	4	8.581	0.001	99572	355.8	4	9.590	-0.008	53613	458.1
Total Col1Ave (4 peaks):					252.6	Total Col2Ave (4 peaks):				297.6 RPD = 16
Corrected Ave (3 peaks):					199.8	Corrected Ave (3 peaks):				240.5 RPD = 19
Aroclor-1248	1	8.406	0.000	77842	246.8	1	8.307	-0.001	37348	247.5
Aroclor-1248	2	8.581	0.000	99572	248.3	2	8.714	-0.000	38224	245.0
Aroclor-1248	3	8.998	-0.000	186857	247.0	3	9.165	-0.000	45021	250.7
Aroclor-1248	4	9.294	-0.000	98398	255.5	4	9.590	-0.001	53613	248.7
Total Col1Ave (4 peaks):					249.4	Total Col2Ave (4 peaks):				248.0 RPD = 1
Corrected Ave (3 peaks):					247.4	Corrected Ave (3 peaks):				247.0 RPD = 0
Aroclor-1254	1	9.294	-0.004	98398	151.6	1	9.450	0.001	21823	90.8
Aroclor-1254	2	9.377	-0.001	49616	169.9	2	9.971	0.001	19450	100.6
Aroclor-1254	3	9.669	0.001	40230	96.4	3	10.124	0.000	36574	87.5
Aroclor-1254	4	9.808	0.001	68500	84.4	4	10.389	0.016	35100	86.1
Aroclor-1254	5	10.183	0.007	47365	93.1	5	10.573	0.004	5676	22.9
Total Col1Ave (5 peaks):					119.1	Total Col2Ave (5 peaks):				77.6 RPD = 42*
Corrected Ave (4 peaks):					106.4	Corrected Ave (4 peaks):				71.8 RPD = 39
Aroclor-1260	1	11.047	0.003	1670	3.0	1	11.662	0.009	2055	6.3
Aroclor-1260	2	11.362	0.001	1111	1.9	2	11.924	0.007	1466	1.8
Aroclor-1260	3	11.739	0.005	2107	1.4	3	12.434	-0.002	573	2.6
Aroclor-1260	4	12.144	0.005	1379	1.8	4	12.505	0.003	1003	1.8
Aroclor-1260	5	12.251	0.006	698	2.1	NS	---			----
Total Col1Ave (5 peaks):					2.1	Total Col2Ave (4 peaks):				3.1 RPD = 41*
Corrected Ave (4 peaks):					1.8	Corrected Ave (3 peaks):				2.0 RPD = 12
Aroclor-1262	1	10.833	0.005	15355	32.7	1	11.122	-0.079	7225	15.2
Aroclor-1262	2	12.251	0.007	698	0.9	2	11.662	0.011	2055	5.1
Aroclor-1262	3	12.321	0.002	836	1.0	3	12.434	0.000	573	1.2
Aroclor-1262	4	12.991	0.004	1043	1.4	4	12.505	0.003	1003	1.4
Total Col1Ave (4 peaks):					9.0	Total Col2Ave (4 peaks):				5.7 RPD = 45*
Corrected Ave (3 peaks):					1.1	Corrected Ave (3 peaks):				2.6 RPD = 80*
Aroclor-1268	1	12.251	0.004	698	0.4	1	12.434	0.002	573	0.5
Aroclor-1268	2	12.321	0.004	836	0.4	2	12.505	0.005	1003	0.8
Aroclor-1268	3	12.700	0.001	2449	1.5	3	12.892	0.001	721	0.7
Aroclor-1268	4	13.493	0.003	7547	1.4	4	13.708	-0.001	2265	0.7
Total Col1Ave (4 peaks):					0.9	Total Col2Ave (4 peaks):				0.7 RPD = 29
Corrected Ave (3 peaks):					0.7	Corrected Ave (3 peaks):				0.6 RPD = 13

Total PCB Area Col1 (5.906 - 13.793) = 1574335 Col1 Total PCB = 0.2 ppm*

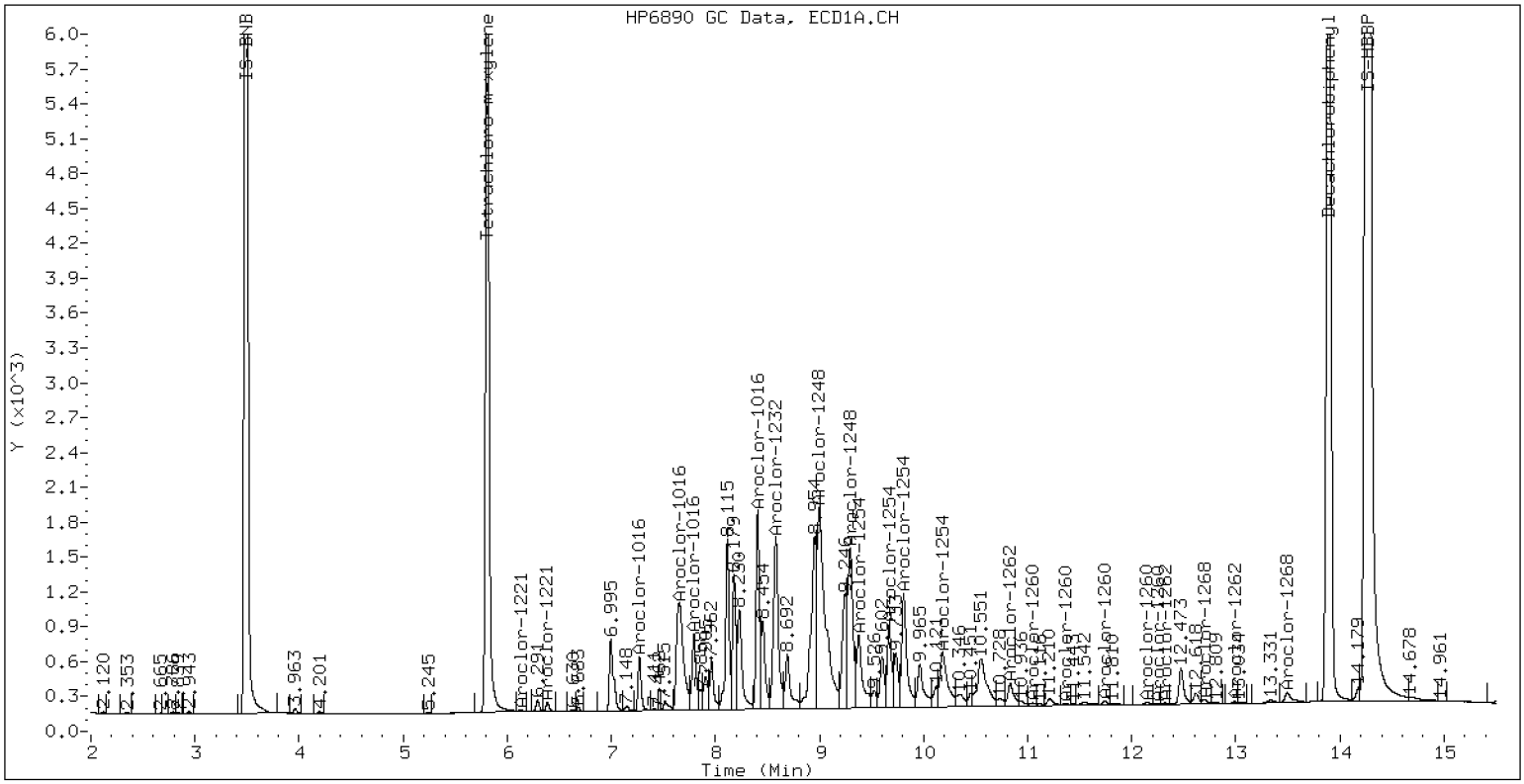
Total PCB Area Col2 (5.785 - 14.019) = 746330 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

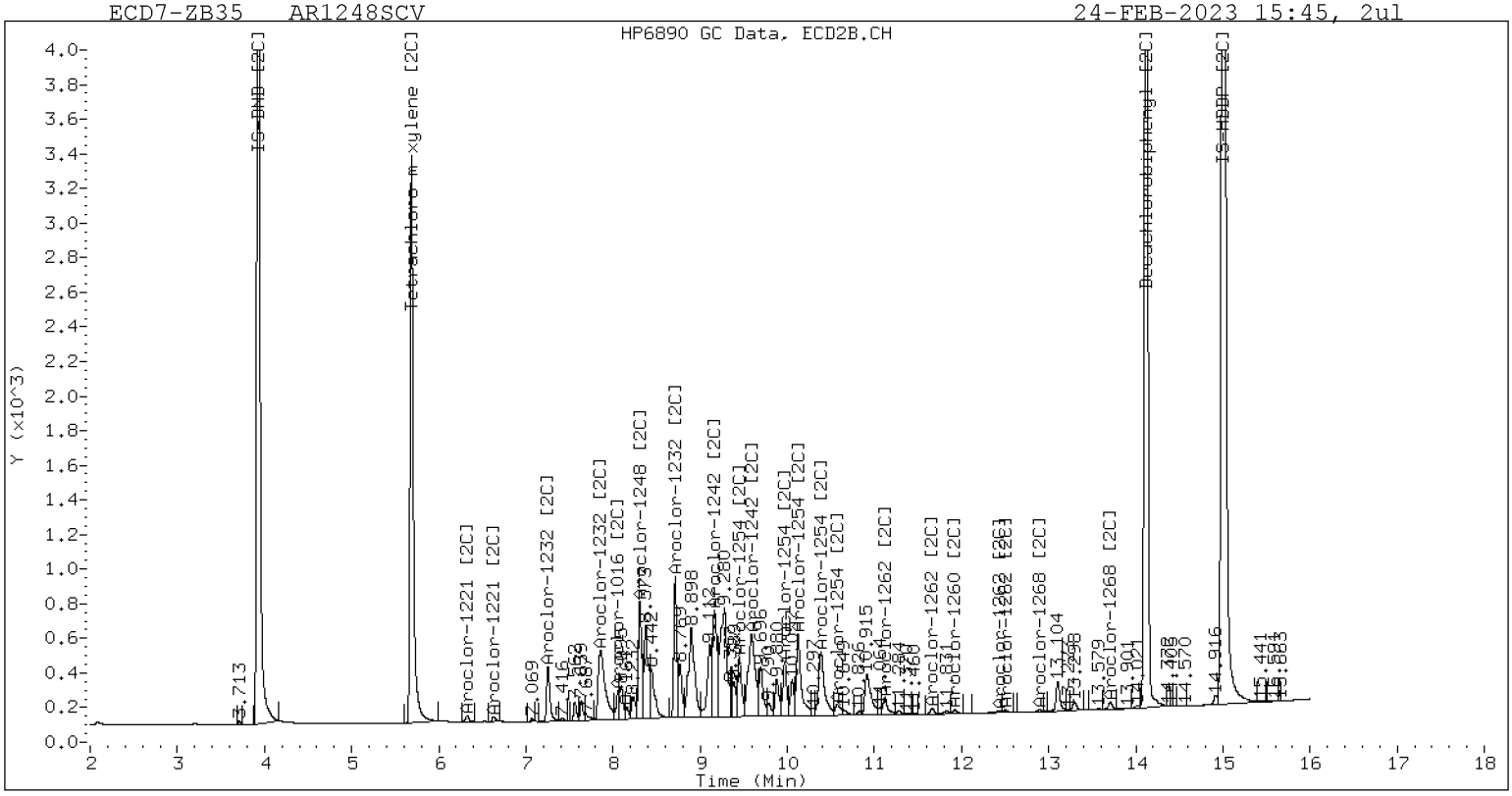
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248SCV 24-FEB-2023 15:45, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248SCV 24-FEB-2023 15:45, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242316ECD7.D
Data file 2: /230224.b/230224.b/02242316ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254SCV
Client ID:
Injection Date: 24-FEB-2023 16:06
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.806	-0.000	354312	5.686	0.001	174604	36.1	37.1	2.6	Tetrachloro-m-xylene
13.895	0.002	540961	14.119	-0.000	329134	34.6	37.9	9.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	656887	-2.5
Hexabromobiphenyl	1429847	1585505	10.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	320936	1.8
Hexabromobiphenyl	513946	570006	10.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.270	0.000	565	2.3	1	7.255	-0.001	387	2.1
Aroclor-1016	2	7.656	0.002	1875	2.5	2	7.854	-0.002	860	2.3
Aroclor-1016	3	7.792	0.002	1106	3.0	3	8.098	0.043	578	3.4
Aroclor-1016	4	8.405	0.000	29924	124.7	4	8.307	0.000	21985	162.9
	Total Col1Ave (4 peaks):				33.1	Total Col2Ave (4 peaks):				42.6 RPD = 25
	Corrected Ave (3 peaks):				2.6	Corrected Ave (3 peaks):				2.6 RPD = 0
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	6.325	0.028	1947	33.9
Aroclor-1221	3	---			0.0	3	6.637	0.015	368	3.9
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	7.255	0.001	387	4.7
Aroclor-1232	3	7.656	0.000	1875	5.9	3	7.854	-0.007	860	5.3
Aroclor-1232	4	8.583	0.002	12327	91.8	4	8.715	0.000	15013	319.7
	Col1Ave: <3 Quant Peaks					Col2Ave: 109.9				
Aroclor-1242	1	7.270	-0.000	565	2.8	1	7.255	-0.001	387	2.6
Aroclor-1242	2	7.656	0.000	1875	3.0	2	7.854	-0.004	860	2.7
Aroclor-1242	3	8.405	-0.000	29924	155.6	3	9.169	0.002	21933	224.9
Aroclor-1242	4	8.583	0.003	12327	43.4	4	9.545	-0.053	34065	286.6
	Total Col1Ave (4 peaks):				51.2	Total Col2Ave (4 peaks):				129.2 RPD = 87*
	Corrected Ave (3 peaks):				16.4	Corrected Ave (3 peaks):				76.7 RPD = 130*
Aroclor-1248	1	8.405	0.000	29924	93.4	1	8.307	-0.001	21985	143.5
Aroclor-1248	2	8.583	0.002	12327	30.3	2	8.715	0.001	15013	94.8
Aroclor-1248	3	8.992	-0.007	145580	189.4	3	9.169	0.004	21933	120.3
Aroclor-1248	4	9.298	0.003	155450	397.3	4	9.545	-0.046	34065	155.6
	Total Col1Ave (4 peaks):				177.6	Total Col2Ave (4 peaks):				128.5 RPD = 32
	Corrected Ave (3 peaks):				104.3	Corrected Ave (3 peaks):				119.5 RPD = 14
Aroclor-1254	1	9.298	-0.001	155450	235.7	1	9.450	0.001	58639	240.4
Aroclor-1254	2	9.377	-0.001	69801	235.3	2	9.971	0.000	47008	239.5
Aroclor-1254	3	9.668	-0.000	100839	237.8	3	10.124	0.000	100062	235.7
Aroclor-1254	4	9.807	0.000	190544	231.1	4	10.373	0.000	99535	240.5
Aroclor-1254	5	10.176	-0.000	122321	236.7	5	10.570	0.001	61549	244.2
	Total Col1Ave (5 peaks):				235.3	Total Col2Ave (5 peaks):				240.1 RPD = 2
	Corrected Ave (4 peaks):				234.7	Corrected Ave (4 peaks):				239.0 RPD = 2
Aroclor-1260	1	11.043	-0.002	12288	21.5	1	11.661	0.008	29062	86.7
Aroclor-1260	2	11.361	-0.001	13660	22.9	2	11.921	0.003	22238	26.0
Aroclor-1260	3	11.736	0.002	37632	23.8	3	12.441	0.005	3555	15.7
Aroclor-1260	4	12.141	0.002	27105	34.1	4	12.503	0.001	13126	22.8
Aroclor-1260	5	12.320	0.076	2381	6.9	NS	---			----
	Total Col1Ave (5 peaks):				21.9	Total Col2Ave (4 peaks):				37.8 RPD = 53*
	Corrected Ave (4 peaks):				18.8	Corrected Ave (3 peaks):				21.5 RPD = 13
Aroclor-1262	1	10.827	-0.002	220626	453.6	1	11.281	0.081	13562	27.9
Aroclor-1262	2	12.320	0.076	2381	3.0	2	11.661	0.009	29062	70.1
Aroclor-1262	3	---			0.0	3	12.441	0.007	3555	7.6
Aroclor-1262	4	12.989	0.002	3225	4.1	4	12.503	0.001	13126	17.8
	Total Col1Ave (3 peaks):				153.6	Total Col2Ave (4 peaks):				30.8 RPD = 133*
	Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				17.7
Aroclor-1268	1	12.320	0.074	2381	1.2	1	12.441	0.009	3555	3.1
Aroclor-1268	2	---			0.0	2	12.503	0.003	13126	10.6
Aroclor-1268	3	12.701	0.002	2939	1.7	3	12.892	0.000	772	0.7
Aroclor-1268	4	13.493	0.003	9164	1.6	4	13.707	-0.002	2801	0.8
	Total Col1Ave (3 peaks):				1.5	Total Col2Ave (4 peaks):				3.8 RPD = 87*
	Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				1.6

Total PCB Area Col1 (5.906 - 13.793) = 2118645 Col1 Total PCB = 0.3 ppm*

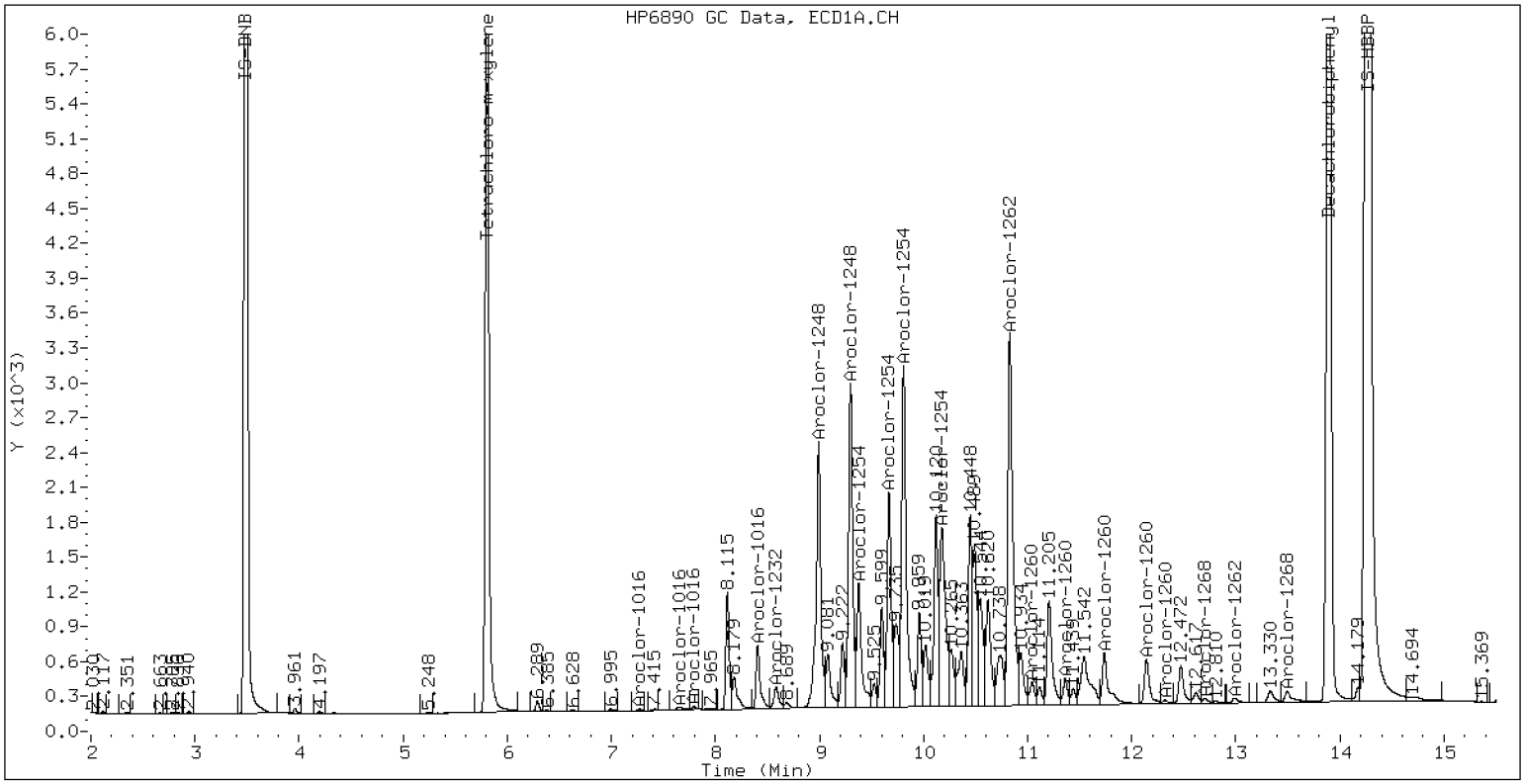
Total PCB Area Col2 (5.785 - 14.019) = 1007601 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

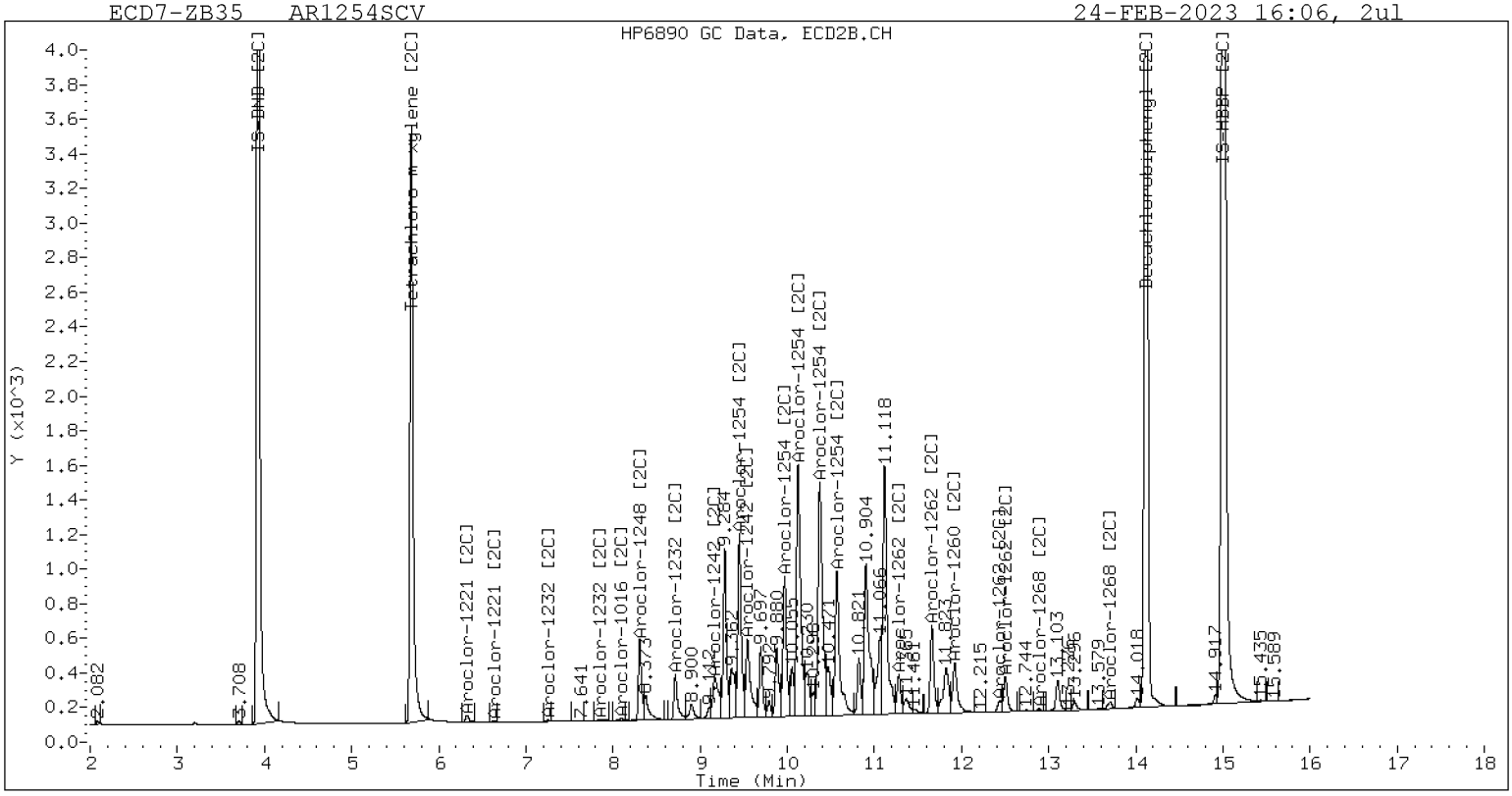
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254SCV 24-FEB-2023 16:06, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254SCV 24-FEB-2023 16:06, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242317ECD7.D
Data file 2: /230224.b/230224.b/02242317ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162SCV
Client ID:
Injection Date: 24-FEB-2023 16:27
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.807	0.000	356001	5.685	0.000	170882	36.0	36.6	1.7	Tetrachloro-m-xylene
13.895	0.002	533971	14.119	0.000	326235	34.4	37.9	9.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	661953	-1.8
Hexabromobiphenyl	1429847	1574993	10.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	317807	0.8
Hexabromobiphenyl	513946	565951	10.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.269	-0.001	7175	28.5	1	7.256	0.000	3727	20.0
Aroclor-1016	2	7.659	0.005	12893	16.8	2	7.863	0.007	5834	15.5
Aroclor-1016	3	7.794	0.004	6936	18.5	3	8.063	0.009	2963	17.4
Aroclor-1016	4	8.408	0.003	3610	14.9	4	8.308	0.002	2045	15.3
Total Col1Ave (4 peaks):					19.7	Total Col2Ave (4 peaks):				17.0 RPD = 14
Corrected Ave (3 peaks):					16.8	Corrected Ave (3 peaks):				16.1 RPD = 4
Aroclor-1221	1	4.730	-0.000	15803	266.6	1	4.955	-0.001	7909	262.9
Aroclor-1221	2	6.131	-0.001	26946	254.1	2	6.296	-0.000	14303	251.2
Aroclor-1221	3	6.382	-0.000	62477	253.8	3	6.622	0.000	23612	254.7
Total Col1Ave (3 peaks):					258.2	Total Col2Ave (3 peaks):				256.3 RPD = 1
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.730	0.000	15803	445.6	1	4.955	-0.001	7909	486.4
Aroclor-1232	2	6.131	0.000	26946	383.1	2	7.256	0.002	3727	46.1
Aroclor-1232	3	7.659	0.003	12893	40.5	3	7.863	0.002	5834	36.1
Aroclor-1232	4	8.583	0.003	2684	19.8	4	8.716	0.002	1189	25.6
Total Col1Ave (4 peaks):					222.3	Total Col2Ave (4 peaks):				148.5 RPD = 40
Corrected Ave (3 peaks):					147.8	Corrected Ave (3 peaks):				35.9 RPD = 122*
Aroclor-1242	1	7.269	-0.001	7175	35.0	1	7.256	0.000	3727	25.2
Aroclor-1242	2	7.659	0.003	12893	20.7	2	7.863	0.005	5834	18.8
Aroclor-1242	3	8.408	0.002	3610	18.6	3	9.175	0.008	1082	11.2
Aroclor-1242	4	8.583	0.004	2684	9.4	4	9.543	-0.054	1390	11.8
Total Col1Ave (4 peaks):					20.9	Total Col2Ave (4 peaks):				16.8 RPD = 22
Corrected Ave (3 peaks):					16.2	Corrected Ave (3 peaks):				13.9 RPD = 15
Aroclor-1248	1	8.408	0.002	3610	11.2	1	8.308	0.001	2045	13.5
Aroclor-1248	2	8.583	0.003	2684	6.5	2	8.716	0.002	1189	7.6
Aroclor-1248	3	8.994	-0.005	24440	31.6	3	9.175	0.009	1082	6.0
Aroclor-1248	4	9.302	0.008	26328	66.8	4	9.543	-0.048	1390	6.4
Total Col1Ave (4 peaks):					29.0	Total Col2Ave (4 peaks):				8.4 RPD = 110*
Corrected Ave (3 peaks):					16.4	Corrected Ave (3 peaks):				6.7 RPD = 85*
Aroclor-1254	1	9.302	0.004	26328	39.6	1	9.452	0.003	9571	39.6
Aroclor-1254	2	---			0.0	2	9.972	0.002	1733	8.9
Aroclor-1254	3	9.670	0.002	3721	8.7	3	10.147	0.023	49218	117.1
Aroclor-1254	4	9.808	0.000	9653	11.6	4	10.370	-0.002	59603	145.4
Aroclor-1254	5	10.120	-0.056	131179	251.9	5	10.569	0.001	79533	318.7
Total Col1Ave (4 peaks):					78.0	Total Col2Ave (5 peaks):				125.9 RPD = 47*
Corrected Ave (3 peaks):					20.0	Corrected Ave (4 peaks):				77.8 RPD = 118*
Aroclor-1260	1	11.044	-0.000	223208	394.0	1	11.652	-0.001	104071	312.7
Aroclor-1260	2	11.361	-0.001	190166	321.2	2	11.919	0.002	251579	296.2
Aroclor-1260	3	11.737	0.003	458281	291.9	3	12.435	-0.001	113645	504.2
Aroclor-1260	4	12.141	0.002	149720	189.4	4	12.501	-0.001	182951	319.6
Aroclor-1260	5	12.244	0.000	196033	576.0	NS	---			----
Total Col1Ave (5 peaks):					354.5	Total Col2Ave (4 peaks):				358.2 RPD = 1
Corrected Ave (4 peaks):					299.1	Corrected Ave (3 peaks):				309.5 RPD = 3
Aroclor-1262	1	10.828	-0.001	121431	251.3	1	11.201	0.000	121335	251.1
Aroclor-1262	2	12.244	0.000	196033	249.3	2	11.652	0.000	104071	252.9
Aroclor-1262	3	12.319	0.001	211092	249.8	3	12.435	0.001	113645	243.4
Aroclor-1262	4	12.988	0.001	183455	237.5	4	12.501	-0.001	182951	250.1
Total Col1Ave (4 peaks):					247.0	Total Col2Ave (4 peaks):				249.3 RPD = 1
Corrected Ave (3 peaks):					245.5	Corrected Ave (3 peaks):				248.2 RPD = 1
Aroclor-1268	1	12.244	-0.002	196033	97.1	1	12.435	0.003	113645	99.7
Aroclor-1268	2	12.319	0.002	211092	105.6	2	12.501	0.001	182951	149.3
Aroclor-1268	3	12.723	0.024	77240	45.2	3	12.891	-0.000	7755	7.4
Aroclor-1268	4	13.488	-0.002	65479	11.6	4	13.709	0.000	35146	10.5
Total Col1Ave (4 peaks):					64.9	Total Col2Ave (4 peaks):				66.7 RPD = 3

Corrected Ave (3 peaks): 51.3 Corrected Ave (3 peaks): 39.2 RPD = 27

Total PCB Area Col1 (5.906 - 13.793) = 3239932 Col1 Total PCB = 0.4 ppm*

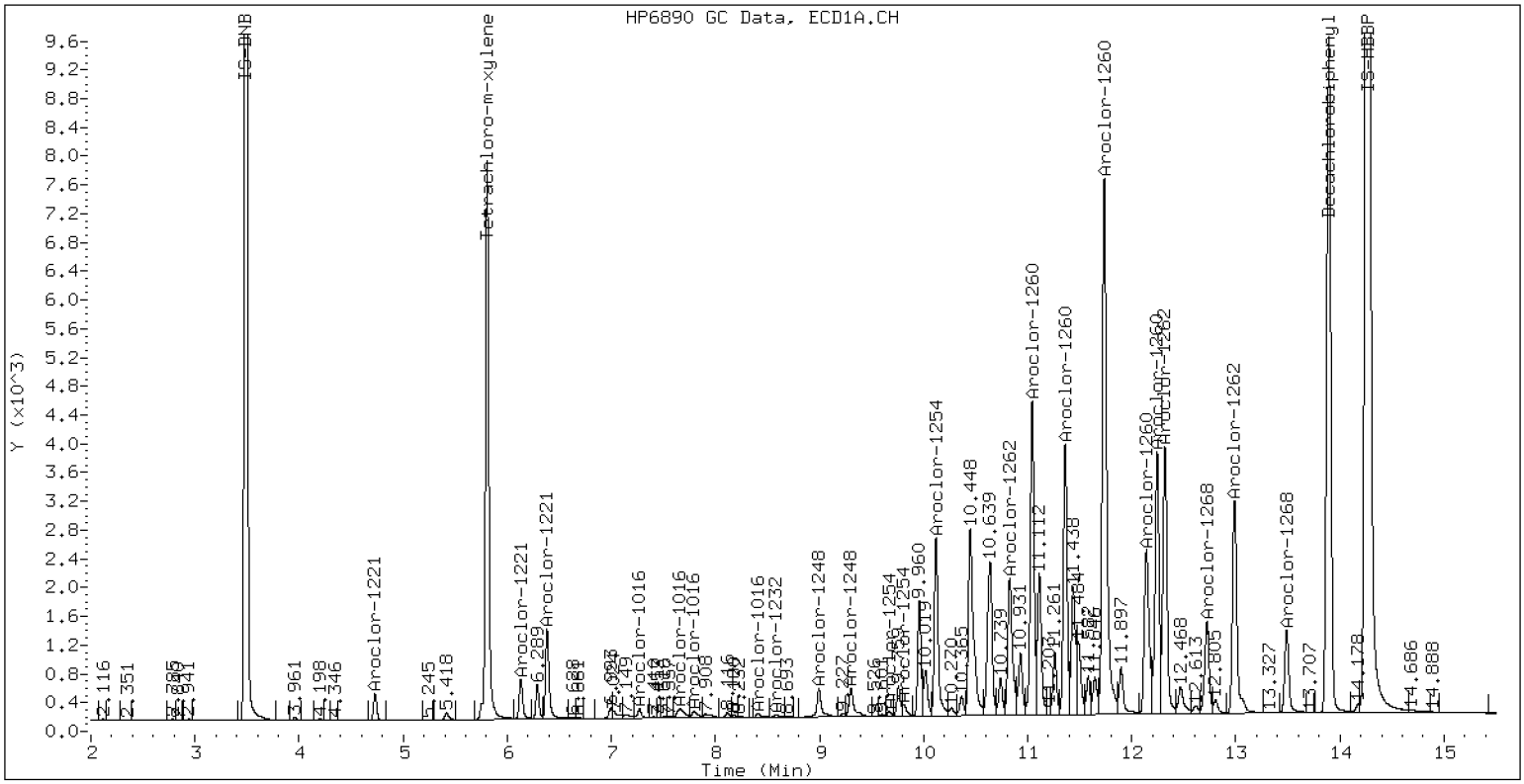
Total PCB Area Col2 (5.785 - 14.019) = 1655522 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

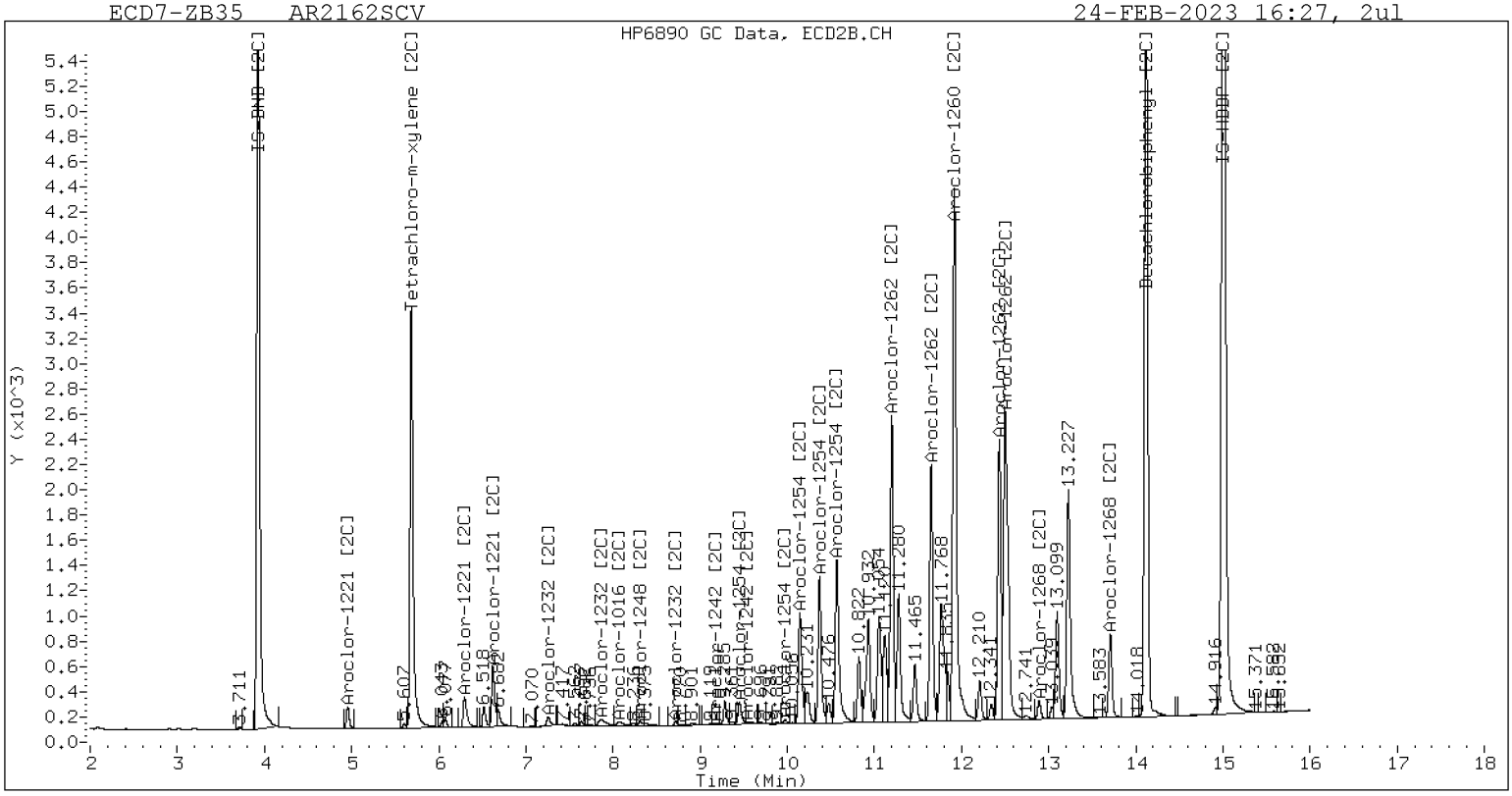
PCB Dual Column Chromatograms

ECD7-ZB5 AR2162SCV 24-FEB-2023 16:27, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162SCV 24-FEB-2023 16:27, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242318ECD7.D
Data file 2: /230224.b/230224.b/02242318ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268SCV
Client ID:
Injection Date: 24-FEB-2023 16:48
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.806	0.000	363331	5.685	0.000	176204	37.1	38.2	2.9	Tetrachloro-m-xylene
13.894	0.001	800845	14.118	-0.001	488290	51.3	56.4	9.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	656592	-2.6
Hexabromobiphenyl	1429847	1584453	10.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	314741	-0.2
Hexabromobiphenyl	513946	568346	10.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.270	-0.001	28327	113.6	1	7.254	-0.001	20651	112.1
Aroclor-1016	2	7.657	0.003	80668	106.1	2	7.861	0.005	41326	110.6
Aroclor-1016	3	7.793	0.003	40661	109.6	3	8.060	0.005	20446	121.2
Aroclor-1016	4	8.407	0.002	24680	102.9	4	8.308	0.001	13576	102.5
Total Col1Ave (4 peaks):					108.0	Total Col2Ave (4 peaks):				111.6 RPD = 3
Corrected Ave (3 peaks):					106.2	Corrected Ave (3 peaks):				108.4 RPD = 2
Aroclor-1221	1	4.729	-0.001	8535	145.1	1	4.956	-0.000	3965	133.1
Aroclor-1221	2	6.132	-0.000	15523	147.6	2	6.297	0.001	8689	154.1
Aroclor-1221	3	6.382	-0.000	45872	187.9	3	6.622	0.001	22272	242.6
Total Col1Ave (3 peaks):					160.2	Total Col2Ave (3 peaks):				176.6 RPD = 10
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.729	-0.001	8535	242.6	1	4.956	0.000	3965	246.2
Aroclor-1232	2	6.132	0.001	15523	222.5	2	7.254	0.000	20651	258.1
Aroclor-1232	3	7.657	0.001	80668	255.4	3	7.861	0.001	41326	258.3
Aroclor-1232	4	8.582	0.001	34784	259.2	4	8.714	-0.001	12504	271.5
Total Col1Ave (4 peaks):					244.9	Total Col2Ave (4 peaks):				258.5 RPD = 5
Corrected Ave (3 peaks):					240.2	Corrected Ave (3 peaks):				254.2 RPD = 6
Aroclor-1242	1	7.270	-0.001	28327	139.2	1	7.254	-0.001	20651	141.2
Aroclor-1242	2	7.657	0.001	80668	130.5	2	7.861	0.003	41326	134.4
Aroclor-1242	3	8.407	0.001	24680	128.4	3	9.170	0.003	12830	134.1
Aroclor-1242	4	8.582	0.003	34784	122.4	4	9.600	0.003	14836	127.3
Total Col1Ave (4 peaks):					130.1	Total Col2Ave (4 peaks):				134.3 RPD = 3
Corrected Ave (3 peaks):					127.1	Corrected Ave (3 peaks):				132.0 RPD = 4
Aroclor-1248	1	8.407	0.001	24680	77.0	1	8.308	0.000	13576	90.3
Aroclor-1248	2	8.582	0.001	34784	85.4	2	8.714	-0.000	12504	80.5
Aroclor-1248	3	8.996	-0.003	83592	108.8	3	9.170	0.004	12830	71.8
Aroclor-1248	4	9.292	-0.003	39603	101.3	4	9.600	0.010	14836	69.1
Total Col1Ave (4 peaks):					93.1	Total Col2Ave (4 peaks):				77.9 RPD = 18
Corrected Ave (3 peaks):					87.9	Corrected Ave (3 peaks):				73.8 RPD = 17
Aroclor-1254	1	9.292	-0.007	39603	60.1	1	9.452	0.003	4590	19.2
Aroclor-1254	2	9.377	-0.000	11450	38.6	2	9.973	0.003	2892	15.0
Aroclor-1254	3	9.674	0.005	6387	15.1	3	10.131	0.007	6052	14.5
Aroclor-1254	4	9.813	0.006	10162	12.3	4	10.390	0.017	5324	13.1
Aroclor-1254	5	10.189	0.012	6862	13.3	5	10.572	0.004	1891	7.7
Total Col1Ave (5 peaks):					27.9	Total Col2Ave (5 peaks):				13.9 RPD = 67*
Corrected Ave (4 peaks):					19.8	Corrected Ave (4 peaks):				12.6 RPD = 45*
Aroclor-1260	1	11.046	0.002	87033	152.7	1	11.645	-0.008	62543	187.1
Aroclor-1260	2	11.362	0.001	6300	10.6	2	11.920	0.003	28552	33.5
Aroclor-1260	3	11.738	0.004	54524	34.5	3	12.432	-0.004	285450	1261.2
Aroclor-1260	4	12.144	0.005	1727	2.2	4	12.499	-0.002	306992	534.0
Aroclor-1260	5	12.246	0.002	502931	1469.0	NS	---			----
Total Col1Ave (5 peaks):					333.8	Total Col2Ave (4 peaks):				503.9 RPD = 41*
Corrected Ave (4 peaks):					50.0	Corrected Ave (3 peaks):				251.5 RPD = 134*
Aroclor-1262	1	10.832	0.004	3395	7.0	1	11.201	0.001	44255	91.2
Aroclor-1262	2	12.246	0.002	502931	635.9	2	11.645	-0.007	62543	151.3
Aroclor-1262	3	12.318	-0.000	497006	584.5	3	12.432	-0.002	285450	608.7
Aroclor-1262	4	12.987	-0.000	202197	260.2	4	12.499	-0.003	306992	417.9
Total Col1Ave (4 peaks):					371.9	Total Col2Ave (4 peaks):				317.3 RPD = 16
Corrected Ave (3 peaks):					283.9	Corrected Ave (3 peaks):				220.1 RPD = 25
Aroclor-1268	1	12.246	-0.001	502931	247.7	1	12.432	-0.000	285450	249.4
Aroclor-1268	2	12.318	0.002	497006	247.2	2	12.499	-0.001	306992	249.5
Aroclor-1268	3	12.699	-0.000	422793	245.8	3	12.892	0.000	260893	248.4
Aroclor-1268	4	13.490	0.000	1386953	244.9	4	13.709	-0.000	829733	247.1
Total Col1Ave (4 peaks):					246.4	Total Col2Ave (4 peaks):				248.6 RPD = 1

Corrected Ave (3 peaks): 246.0 Corrected Ave (3 peaks): 248.3 RPD = 1

Total PCB Area Col1 (5.906 - 13.793) = 4180607 Col1 Total PCB = 0.5 ppm*

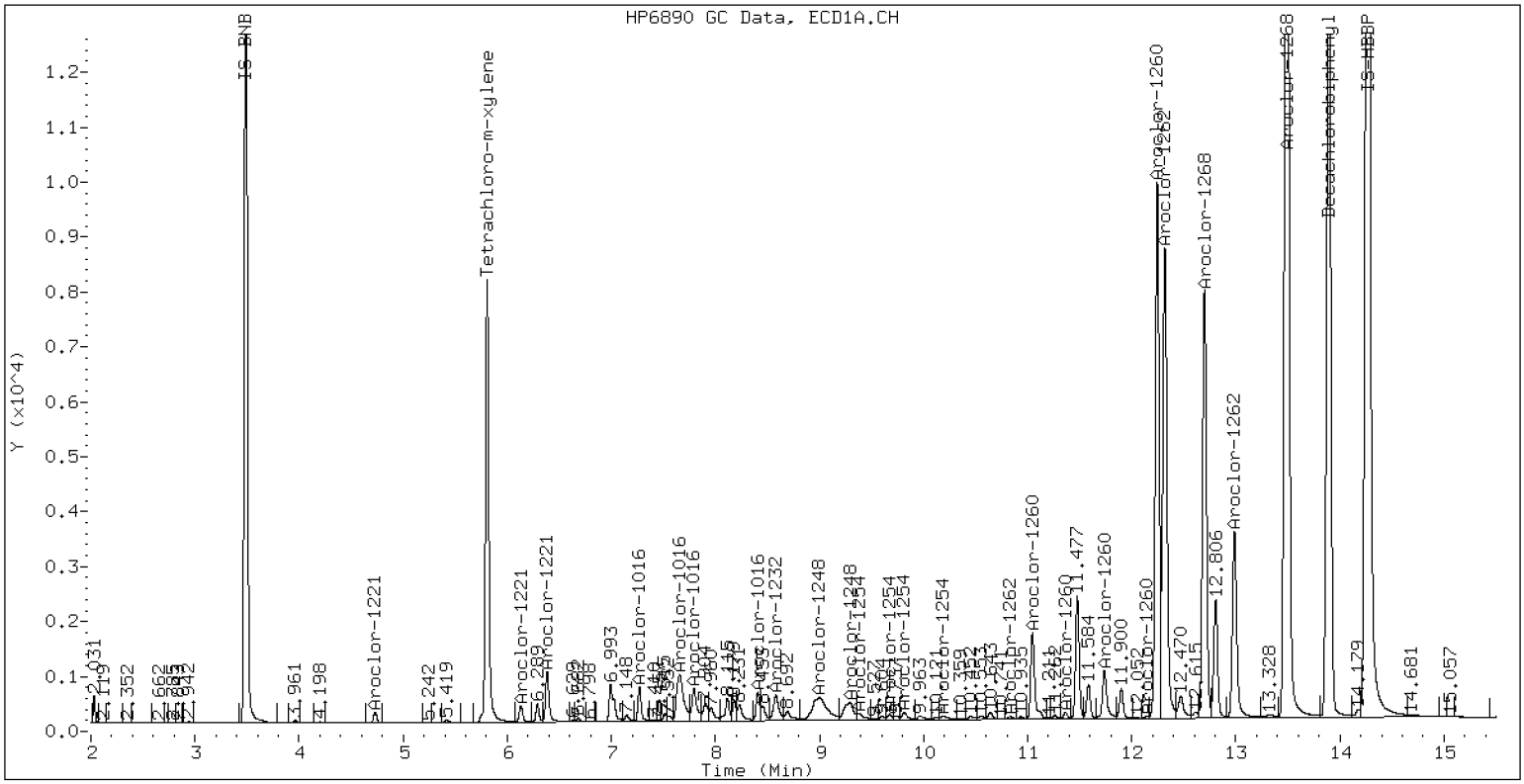
Total PCB Area Col2 (5.785 - 14.019) = 2376912 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

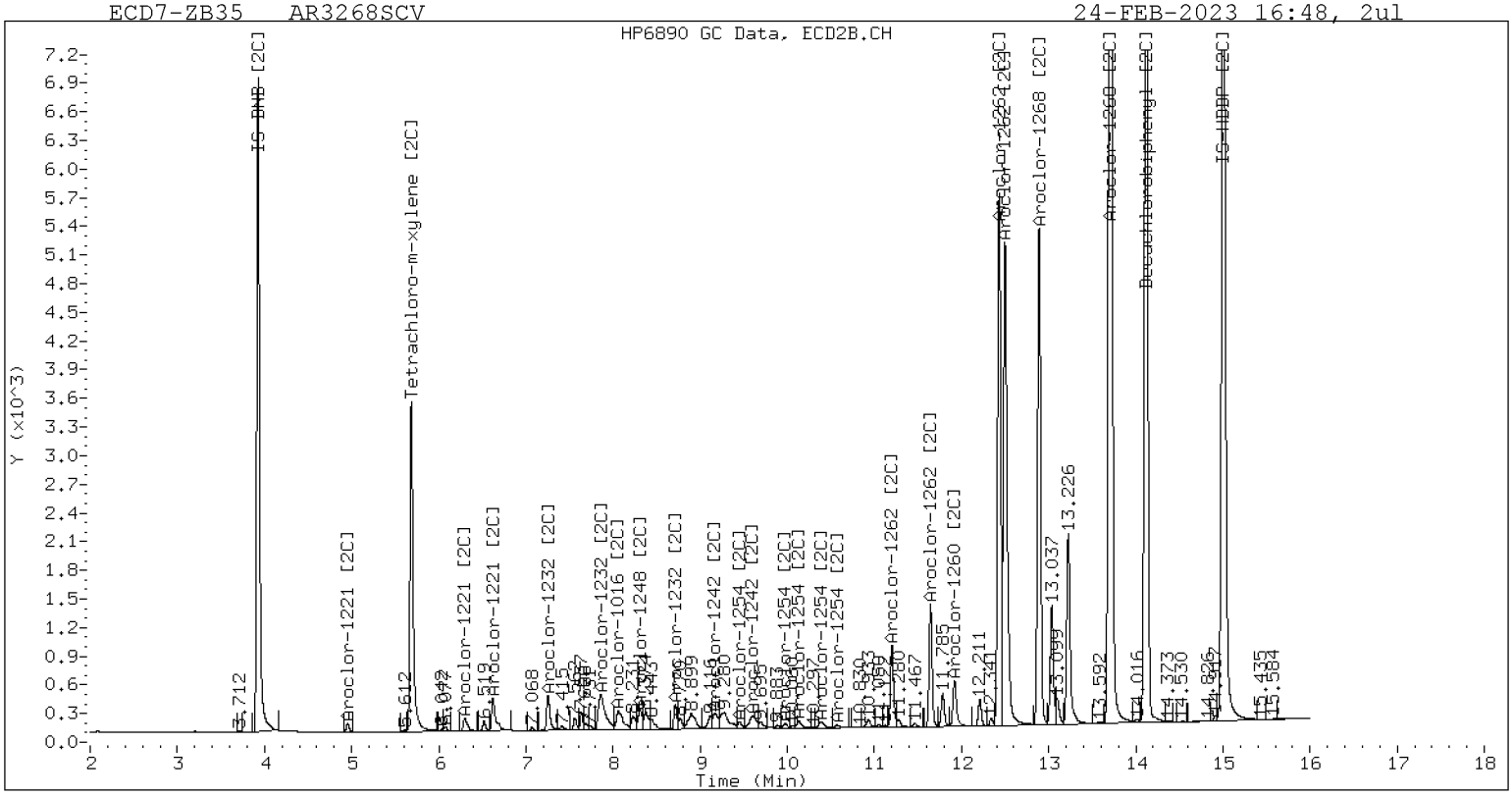
PCB Dual Column Chromatograms

ECD7-ZB5 AR3268SCV 24-FEB-2023 16:48, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268SCV 24-FEB-2023 16:48, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: /230224.b/02242319ECD7.D ARI ID: DDTS

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
9.261	0.000	694353	9.912	0.000	580269	0.100	0.100	0.0	2,4-DDE
0.000	-10.293	0	10.672	0.000	673479	0.000	0.200#	----	2,4-DDT
9.686	0.000	1191406	10.212	0.000	433373	0.100	0.100	0.0	4,4-DDE
10.259	0.000	1721760	10.672	0.000	673479	0.100	0.200#	66.7*	4,4-DDD

# Indicates value is from co-eluting peaks
* Indicates RPD > 40%

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: /230224.b/02242320ECD7.D ARI ID: DDT BD

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
9.285	0.023	4923	9.921	0.009	9972	0.001	0.002	84.3*	2,4-DDE
0.000	-10.293	0	10.677	0.004	249094	0.000	0.074#	----	2,4-DDT
9.692	0.006	12128	10.221	0.009	528	0.001	0.000	156.7*	4,4-DDE
10.265	0.006	410017	10.677	0.004	249094	0.023	0.074#	103.6*	4,4-DDD

# Indicates value is from co-eluting peaks
* Indicates RPD > 40%

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLB0342

Instrument: ECD7
Calibration ID: GB00069

Printed: 2/28/2023 9:54:44AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLB0342-CAL1	QC		1		L000856	L000844		
SLB0342-CAL2	QC		2		L000859	L000844		
SLB0342-CAL3	QC		3		L000858	L000844		
SLB0342-CAL4	QC		4		L000731	L000844		
SLB0342-CAL5	QC		5		L000857	L000844		
SLB0342-CAL6	QC		6		L000855	L000844		
SLB0342-CAL7	QC		7		L000860	L000844		
SLB0342-CAL8	QC		8		L000861	L000844		
SLB0342-CAL9	QC		9		L000862	L000844		
SLB0342-CALA	QC		10		L000863	L000844		
SLB0342-CALB	QC		11		L000864	L000844		
SLB0342-SCV1	QC		12		L002065	L000844		
SLB0342-SCV2	QC		13		K007656	L000844		
SLB0342-SCV3	QC		14		L002066	L000844		
SLB0342-SCV4	QC		15		L002067	L000844		
SLB0342-SCV5	QC		16		L002068	L000844		
SLB0342-SCV6	QC		17		L002069	L000844		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	24-FEB-2023 10:51	02242301ECD7.D	1	IB	
2	24-FEB-2023 11:12	02242302ECD7.D	1	0.25PPMAR1660	
3	24-FEB-2023 11:33	02242303ECD7.D	1	0.02PPMAR1660	
4	24-FEB-2023 11:54	02242304ECD7.D	1	0.05PPMAR1660	
5	24-FEB-2023 12:15	02242305ECD7.D	1	1.0PPMAR1660	
6	24-FEB-2023 12:36	02242306ECD7.D	1	0.1PPMAR1660	
7	24-FEB-2023 12:57	02242307ECD7.D	1	0.5PPMAR1660	
8	24-FEB-2023 13:18	02242308ECD7.D	1	0.25PPMAR1242	
9	24-FEB-2023 13:39	02242309ECD7.D	1	0.25PPMAR1248	
10	24-FEB-2023 14:00	02242310ECD7.D	1	0.25PPMAR1254	
11	24-FEB-2023 14:21	02242311ECD7.D	1	0.25PPMAR2162	
12	24-FEB-2023 14:42	02242312ECD7.D	1	0.25PPMAR3268	
13	24-FEB-2023 15:03	02242313ECD7.D	1	AR1660SCV	
14	24-FEB-2023 15:24	02242314ECD7.D	1	AR1242SCV	
15	24-FEB-2023 15:45	02242315ECD7.D	1	AR1248SCV	
16	24-FEB-2023 16:06	02242316ECD7.D	1	AR1254SCV	
17	24-FEB-2023 16:27	02242317ECD7.D	1	AR2162SCV	
18	24-FEB-2023 16:48	02242318ECD7.D	1	AR3268SCV	
19	24-FEB-2023 17:09	02242319ECD7.D	1	DDTS	
20	24-FEB-2023 17:30	02242320ECD7.D	1	DDT BD	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b

ARI Job No.: IB Method: PCB.m Instrument: ecd7.i Date: 24-FEB-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1051	02242301ECD7.D	IB		1	NO MANUAL INTEGRATION
1112	02242302ECD7.D	0.25PPMAR1660		1	NO MANUAL INTEGRATION
1133	02242303ECD7.D	0.02PPMAR1660		1	NO MANUAL INTEGRATION
1154	02242304ECD7.D	0.05PPMAR1660		1	NO MANUAL INTEGRATION
1215	02242305ECD7.D	1.0PPMAR1660		1	NO MANUAL INTEGRATION
1236	02242306ECD7.D	0.1PPMAR1660		1	NO MANUAL INTEGRATION
1257	02242307ECD7.D	0.5PPMAR1660		1	NO MANUAL INTEGRATION
1318	02242308ECD7.D	0.25PPMAR1242		1	NO MANUAL INTEGRATION
1339	02242309ECD7.D	0.25PPMAR1248		1	NO MANUAL INTEGRATION
1400	02242310ECD7.D	0.25PPMAR1254		1	NO MANUAL INTEGRATION
1421	02242311ECD7.D	0.25PPMAR2162		1	NO MANUAL INTEGRATION
1442	02242312ECD7.D	0.25PPMAR3268		1	NO MANUAL INTEGRATION
1503	02242313ECD7.D	AR1660SCV		1	NO MANUAL INTEGRATION
1524	02242314ECD7.D	AR1242SCV		1	NO MANUAL INTEGRATION
1545	02242315ECD7.D	AR1248SCV		1	NO MANUAL INTEGRATION
1606	02242316ECD7.D	AR1254SCV		1	NO MANUAL INTEGRATION
1627	02242317ECD7.D	AR2162SCV		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1648	02242318ECD7.D	AR3268SCV		1	NO MANUAL INTEGRATION
1709	02242319ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1730	02242320ECD7.D	DDT BD		1	NO MANUAL INTEGRATION
1751	02242321ECD7.D			1	NO MANUAL INTEGRATION
1812	02242322ECD7.D			1	NO MANUAL INTEGRATION
1833	02242323ECD7.D			1	NO MANUAL INTEGRATION
1854	02242324ECD7.D			1	NO MANUAL INTEGRATION
1915	02242325ECD7.D			1	NO MANUAL INTEGRATION
1936	02242326ECD7.D			1	NO MANUAL INTEGRATION
1957	02242327ECD7.D			1	NO MANUAL INTEGRATION
2018	02242328ECD7.D			1	NO MANUAL INTEGRATION
2039	02242329ECD7.D			1	NO MANUAL INTEGRATION
2059	02242330ECD7.D			1	NO MANUAL INTEGRATION
2120	02242331ECD7.D			1	NO MANUAL INTEGRATION
2141	02242332ECD7.D			1	NO MANUAL INTEGRATION
2202	02242333ECD7.D			1	NO MANUAL INTEGRATION
2223	02242334ECD7.D			1	NO MANUAL INTEGRATION
2244	02242335ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2305	02242336ECD7.D			1	NO MANUAL INTEGRATION
2326	02242337ECD7.D			1	NO MANUAL INTEGRATION
2347	02242338ECD7.D			1	NO MANUAL INTEGRATION
0008	02242339ECD7.D			1	NO MANUAL INTEGRATION
0029	02242340ECD7.D			1	NO MANUAL INTEGRATION
0050	02242341ECD7.D			1	NO MANUAL INTEGRATION
0111	02242342ECD7.D			1	NO MANUAL INTEGRATION
0132	02242343ECD7.D			1	NO MANUAL INTEGRATION
0153	02242344ECD7.D			1	NO MANUAL INTEGRATION
0214	02242345ECD7.D			1	NO MANUAL INTEGRATION
0235	02242346ECD7.D			1	NO MANUAL INTEGRATION
0256	02242347ECD7.D			1	NO MANUAL INTEGRATION
0317	02242348ECD7.D			1	NO MANUAL INTEGRATION
0338	02242349ECD7.D			1	NO MANUAL INTEGRATION
0359	02242350ECD7.D			1	NO MANUAL INTEGRATION
0420	02242351ECD7.D			1	NO MANUAL INTEGRATION
0441	02242352ECD7.D			1	NO MANUAL INTEGRATION
0502	02242353ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0523	02242354ECD7.D			1	NO MANUAL INTEGRATION
0544	02242355ECD7.D			1	NO MANUAL INTEGRATION
0605	02242356ECD7.D			1	NO MANUAL INTEGRATION
0626	02242357ECD7.D			1	NO MANUAL INTEGRATION
0647	02242358ECD7.D			1	NO MANUAL INTEGRATION
0708	02242359ECD7.D			1	NO MANUAL INTEGRATION
0729	02242360ECD7.D			1	NO MANUAL INTEGRATION
0750	02242361ECD7.D			1	NO MANUAL INTEGRATION
0811	02242362ECD7.D			1	NO MANUAL INTEGRATION
0832	02242363ECD7.D			1	NO MANUAL INTEGRATION
0853	02242364ECD7.D			1	NO MANUAL INTEGRATION
0914	02242365ECD7.D			1	NO MANUAL INTEGRATION
0935	02242366ECD7.D			1	NO MANUAL INTEGRATION
0956	02242367ECD7.D			1	NO MANUAL INTEGRATION
1017	02242368ECD7.D			1	NO MANUAL INTEGRATION
1038	02242369ECD7.D			1	NO MANUAL INTEGRATION
1059	02242370ECD7.D			1	NO MANUAL INTEGRATION
1120	02242371ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1141	02242372ECD7.D			1	NO MANUAL INTEGRATION
1202	02242373ECD7.D			1	NO MANUAL INTEGRATION
1223	02242374ECD7.D			1	NO MANUAL INTEGRATION
1244	02242375ECD7.D			1	NO MANUAL INTEGRATION
1305	02242376ECD7.D			1	NO MANUAL INTEGRATION
1326	02242377ECD7.D			1	NO MANUAL INTEGRATION
1347	02242378ECD7.D			1	NO MANUAL INTEGRATION
1408	02242379ECD7.D			1	NO MANUAL INTEGRATION
1429	02242380ECD7.D			1	NO MANUAL INTEGRATION
1450	02242381ECD7.D			1	NO MANUAL INTEGRATION
1511	02242382ECD7.D			1	NO MANUAL INTEGRATION
1532	02242383ECD7.D			1	NO MANUAL INTEGRATION
1553	02242384ECD7.D			1	NO MANUAL INTEGRATION
1051	02242301ECD7.D	IB		1	NO MANUAL INTEGRATION
1112	02242302ECD7.D	0.25PPMAR1660		1	NO MANUAL INTEGRATION
1133	02242303ECD7.D	0.02PPMAR1660		1	Aroclor-1016 [2C],
1154	02242304ECD7.D	0.05PPMAR1660		1	NO MANUAL INTEGRATION
1215	02242305ECD7.D	1.0PPMAR1660		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1236	02242306ECD7.D	0.1PPMAR1660		1	NO MANUAL INTEGRATION
1257	02242307ECD7.D	0.5PPMAR1660		1	NO MANUAL INTEGRATION
1318	02242308ECD7.D	0.25PPMAR1242		1	NO MANUAL INTEGRATION
1339	02242309ECD7.D	0.25PPMAR1248		1	NO MANUAL INTEGRATION
1400	02242310ECD7.D	0.25PPMAR1254		1	NO MANUAL INTEGRATION
1421	02242311ECD7.D	0.25PPMAR2162		1	NO MANUAL INTEGRATION
1442	02242312ECD7.D	0.25PPMAR3268		1	NO MANUAL INTEGRATION
1503	02242313ECD7.D	AR1660SCV		1	NO MANUAL INTEGRATION
1524	02242314ECD7.D	AR1242SCV		1	NO MANUAL INTEGRATION
1545	02242315ECD7.D	AR1248SCV		1	NO MANUAL INTEGRATION
1606	02242316ECD7.D	AR1254SCV		1	NO MANUAL INTEGRATION
1627	02242317ECD7.D	AR2162SCV		1	NO MANUAL INTEGRATION
1648	02242318ECD7.D	AR3268SCV		1	NO MANUAL INTEGRATION
1709	02242319ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1730	02242320ECD7.D	DDT BD		1	NO MANUAL INTEGRATION
1751	02242321ECD7.D			1	NO MANUAL INTEGRATION
1812	02242322ECD7.D			1	NO MANUAL INTEGRATION
1833	02242323ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1854	02242324ECD7.D			1	NO MANUAL INTEGRATION
1915	02242325ECD7.D			1	NO MANUAL INTEGRATION
1936	02242326ECD7.D			1	NO MANUAL INTEGRATION
1957	02242327ECD7.D			1	NO MANUAL INTEGRATION
2018	02242328ECD7.D			1	NO MANUAL INTEGRATION
2038	02242329ECD7.D			1	NO MANUAL INTEGRATION
2059	02242330ECD7.D			1	NO MANUAL INTEGRATION
2120	02242331ECD7.D			1	NO MANUAL INTEGRATION
2141	02242332ECD7.D			1	NO MANUAL INTEGRATION
2202	02242333ECD7.D			1	NO MANUAL INTEGRATION
2223	02242334ECD7.D			1	NO MANUAL INTEGRATION
2244	02242335ECD7.D			1	NO MANUAL INTEGRATION
2305	02242336ECD7.D			1	NO MANUAL INTEGRATION
2326	02242337ECD7.D			1	NO MANUAL INTEGRATION
2347	02242338ECD7.D			1	NO MANUAL INTEGRATION
0008	02242339ECD7.D			1	NO MANUAL INTEGRATION
0029	02242340ECD7.D			1	NO MANUAL INTEGRATION
0050	02242341ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0111	02242342ECD7.D			1	NO MANUAL INTEGRATION
0132	02242343ECD7.D			1	NO MANUAL INTEGRATION
0153	02242344ECD7.D			1	NO MANUAL INTEGRATION
0214	02242345ECD7.D			1	NO MANUAL INTEGRATION
0235	02242346ECD7.D			1	NO MANUAL INTEGRATION
0256	02242347ECD7.D			1	NO MANUAL INTEGRATION
0317	02242348ECD7.D			1	NO MANUAL INTEGRATION
0338	02242349ECD7.D			1	NO MANUAL INTEGRATION
0359	02242350ECD7.D			1	NO MANUAL INTEGRATION
0420	02242351ECD7.D			1	NO MANUAL INTEGRATION
0441	02242352ECD7.D			1	NO MANUAL INTEGRATION
0502	02242353ECD7.D			1	NO MANUAL INTEGRATION
0523	02242354ECD7.D			1	NO MANUAL INTEGRATION
0544	02242355ECD7.D			1	NO MANUAL INTEGRATION
0605	02242356ECD7.D			1	NO MANUAL INTEGRATION
0626	02242357ECD7.D			1	NO MANUAL INTEGRATION
0647	02242358ECD7.D			1	NO MANUAL INTEGRATION
0708	02242359ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0729	02242360ECD7.D			1	NO MANUAL INTEGRATION
0750	02242361ECD7.D			1	NO MANUAL INTEGRATION
0811	02242362ECD7.D			1	NO MANUAL INTEGRATION
0832	02242363ECD7.D			1	NO MANUAL INTEGRATION
0853	02242364ECD7.D			1	NO MANUAL INTEGRATION
0914	02242365ECD7.D			1	NO MANUAL INTEGRATION
0935	02242366ECD7.D			1	NO MANUAL INTEGRATION
0956	02242367ECD7.D			1	NO MANUAL INTEGRATION
1017	02242368ECD7.D			1	NO MANUAL INTEGRATION
1038	02242369ECD7.D			1	NO MANUAL INTEGRATION
1059	02242370ECD7.D			1	NO MANUAL INTEGRATION
1120	02242371ECD7.D			1	NO MANUAL INTEGRATION
1141	02242372ECD7.D			1	NO MANUAL INTEGRATION
1202	02242373ECD7.D			1	NO MANUAL INTEGRATION
1223	02242374ECD7.D			1	NO MANUAL INTEGRATION
1244	02242375ECD7.D			1	NO MANUAL INTEGRATION
1305	02242376ECD7.D			1	NO MANUAL INTEGRATION
1326	02242377ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1347	02242378ECD7.D			1	NO MANUAL INTEGRATION
1408	02242379ECD7.D			1	NO MANUAL INTEGRATION
1429	02242380ECD7.D			1	NO MANUAL INTEGRATION
1450	02242381ECD7.D			1	NO MANUAL INTEGRATION
1511	02242382ECD7.D			1	NO MANUAL INTEGRATION
1532	02242383ECD7.D			1	NO MANUAL INTEGRATION
1553	02242384ECD7.D			1	NO MANUAL INTEGRATION

Security Status Report

Date: 28-Feb-2023 10:53

02242301ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242302ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242303ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242304ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242305ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242306ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242307ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242308ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242309ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242310ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242311ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242312ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242313ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242314ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242315ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242316ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242317ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242318ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242319ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242320ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m
Last Edit : 24-Feb-2023 15:31 richardl
Curve Type : Average

Calibration File Names:
Level 1: \\target\share\chem4\ecd7.i\230224.b\02242303ECD7.D
Level 2: \\target\share\chem4\ecd7.i\230224.b\02242304ECD7.D
Level 3: \\target\share\chem4\ecd7.i\230224.b\02242306ECD7.D
Level 4: \\target\share\chem4\ecd7.i\230224.b\02242302ECD7.D
Level 5: \\target\share\chem4\ecd7.i\230224.b\02242307ECD7.D
Level 6: \\target\share\chem4\ecd7.i\230224.b\02242305ECD7.D
Level 7: \\target\share\chem4\ecd7.i\230224.b\02242312ECD7.D

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	RRF	% RSD
2 Aroclor-1221(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.00716	0.00716	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.01281	0.01281	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.02975	0.02975	0.000
3 Aroclor-1242(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.02479	0.02479	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.07529	0.07529	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.02343	0.02343	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.03463	0.03463	0.000
4 Aroclor-1232(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.00429	0.00429	0.000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m
Last Edit : 24-Feb-2023 15:31 richardl
Curve Type : Average

Compound	20.000 Level 1 / 250.000 Level 7	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	___ RRF	% RSD
(2)	+++++ / 0.00850	+++++	+++++	+++++	+++++	+++++	0.00850	0.000
(3)	+++++ / 0.03848	+++++	+++++	+++++	+++++	+++++	0.03848	0.000
(4)	+++++ / 0.01635	+++++	+++++	+++++	+++++	+++++	0.01635	0.000
7 Aroclor-1016(1)	0.03172 / +++++	0.03253	0.03142	0.03141	0.02856	0.02667	0.03039	7.449
(2)	0.09239 / +++++	0.09246	0.09222	0.09849	0.09174	0.08849	0.09263	3.499
(3)	0.05165 / +++++	0.05037	0.04823	0.04393	0.03991	0.03721	0.04522	12.936
(4)	0.03002 / +++++	0.02894	0.02959	0.03058	0.02852	0.02774	0.02923	3.542
6 Aroclor-1248(1)	+++++ / 0.03903	+++++	+++++	+++++	+++++	+++++	0.03903	0.000
(2)	+++++ / 0.04961	+++++	+++++	+++++	+++++	+++++	0.04961	0.000
(3)	+++++ / 0.09360	+++++	+++++	+++++	+++++	+++++	0.09360	0.000
(4)	+++++ / 0.04765	+++++	+++++	+++++	+++++	+++++	0.04765	0.000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m
Last Edit : 24-Feb-2023 15:31 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
8 Aroclor-1254(1)	*****	*****	*****	*****	*****	*****	0.08033	0.08033	0.000
(2)	*****	*****	*****	*****	*****	*****	0.03613	0.03613	0.000
(3)	*****	*****	*****	*****	*****	*****	0.05165	0.05165	0.000
(4)	*****	*****	*****	*****	*****	*****	0.10042	0.10042	0.000
(5)	*****	*****	*****	*****	*****	*****	0.06294	0.06294	0.000
9 Aroclor-1260(1)	0.02926	0.02920	0.02841	0.03096	0.02737	0.02746	*****	0.02878	4.677
(2)	0.02967	0.03006	0.03011	0.03291	0.02910	0.02857	*****	0.03007	5.029
(3)	0.08088	0.08045	0.07954	0.08575	0.07515	0.07674	*****	0.07975	4.627
(4)	0.03905	0.03887	0.03955	0.04485	0.03942	0.03922	*****	0.04016	5.753
(5)	0.01783	0.01715	0.01679	0.01875	0.01664	0.01655	*****	0.01729	4.953
10 Aroclor-1262(1)	*****	*****	*****	*****	*****	*****	0.02454	0.02454	0.000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m
Last Edit : 24-Feb-2023 15:31 richardl
Curve Type : Average

Compound	20.000 Level 1 / 250.000 Level 7	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	RRF	% RSD
(2)	*****	*****	*****	*****	*****	*****		
	0.03993						0.03993	0.000
(3)	*****	*****	*****	*****	*****	*****		
	0.04293						0.04293	0.000
(4)	*****	*****	*****	*****	*****	*****		
	0.03923						0.03923	0.000
11 Aroclor-1268(1)	*****	*****	*****	*****	*****	*****		
	0.10250						0.10250	0.000
(2)	*****	*****	*****	*****	*****	*****		
	0.10151						0.10151	0.000
(3)	*****	*****	*****	*****	*****	*****		
	0.08686						0.08686	0.000
(4)	*****	*****	*****	*****	*****	*****		
	0.28598						0.28598	0.000
42 2,4-DDE	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
43 2,4-DDD	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
44 2,4-DDT	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
46 4,4-DDE	*****	*****	*****	*****	*****	*****		
	*****						*****	*****

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m
Last Edit : 24-Feb-2023 15:31 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
47 4,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 4,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	1.16827	1.24402	1.18546	1.20509	1.12295	1.24114	+++++	1.19449	3.860
$ 13 Decachlorobiphenyl	0.82901	0.80558	0.77587	0.78808	0.73125	0.79742	+++++	0.78787	4.189

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Last Edit : 24-Feb-2023 15:29 richardl
Curve Type : Average

Calibration File Names:
Level 1: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242303ECD7.D
Level 2: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242304ECD7.D
Level 3: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242306ECD7.D
Level 4: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242302ECD7.D
Level 5: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242307ECD7.D
Level 6: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242305ECD7.D
Level 7: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242312ECD7.D

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	RRF	% RSD
1 Aroclor-1221 [2C](1)	+++++	+++++	+++++	+++++	+++++	+++++	0.00757	0.00757	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.01433	0.01433	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.02333	0.02333	0.000
4 Aroclor-1232 [2C](1)	+++++	+++++	+++++	+++++	+++++	+++++	0.00409	0.00409	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.02034	0.02034	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.04067	0.04067	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.01170	0.01170	0.000
3 Aroclor-1242 [2C](1)	+++++	+++++	+++++	+++++	+++++	+++++	0.03717	0.03717	0.000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Last Edit : 24-Feb-2023 15:29 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.07813	0.07813	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.02431	0.02431	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.02962	0.02962	0.000
6 Aroclor-1248 [2C](1)	+++++	+++++	+++++	+++++	+++++	+++++	0.03820	0.03820	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.03949	0.03949	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.04545	0.04545	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.05457	0.05457	0.000
7 Aroclor-1016 [2C](1)	0.05071	0.05022	0.04868	0.04733	0.04326	0.04080	+++++	0.04683	8.503
(2)	0.08143	0.09407	0.10159	0.10259	0.09651	0.09362	+++++	0.09497	8.025
(3)	0.04006	0.04718	0.04613	0.04410	0.04062	0.03926	+++++	0.04289	7.857
(4)	0.03181	0.03802	0.03707	0.03450	0.03115	0.02936	+++++	0.03365	10.251

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Last Edit : 24-Feb-2023 15:29 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
8 Aroclor-1254 [2C](1)	*****	*****	*****	*****	*****	*****	0.06081	0.06081	0.000
(2)	*****	*****	*****	*****	*****	*****	0.04892	0.04892	0.000
(3)	*****	*****	*****	*****	*****	*****	0.10584	0.10584	0.000
(4)	*****	*****	*****	*****	*****	*****	0.10317	0.10317	0.000
(5)	*****	*****	*****	*****	*****	*****	0.06282	0.06282	0.000
10 Aroclor-1262 [2C](1)	*****	*****	*****	*****	*****	*****	0.06831	0.06831	0.000
(2)	*****	*****	*****	*****	*****	*****	0.05818	0.05818	0.000
(3)	*****	*****	*****	*****	*****	*****	0.06601	0.06601	0.000
(4)	*****	*****	*****	*****	*****	*****	0.10341	0.10341	0.000
9 Aroclor-1260 [2C](1)	0.05286	0.04911	0.04696	0.04801	0.04329	0.04201	*****	0.04704	8.422
(2)	0.12976	0.12431	0.12095	0.12664	0.11320	0.10545	*****	0.12005	7.605

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Last Edit : 24-Feb-2023 15:29 richardl
Curve Type : Average

Compound	20.000 Level 1 / 250.000 Level 7	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	___ RRF	% RSD
(3)	0.03524 / +++++	0.03147	0.02937	0.03208	0.03102	0.03198	0.03186	6.045
(4)	0.08632 / +++++	0.08237	0.08044	0.08393	0.07718	0.07531	0.08092	5.126
11 Aroclor-1268 [2C](1)	+++++ / 0.16109	+++++	+++++	+++++	+++++	+++++	0.16109	0.000
(2)	+++++ / 0.17318	+++++	+++++	+++++	+++++	+++++	0.17318	0.000
(3)	+++++ / 0.14787	+++++	+++++	+++++	+++++	+++++	0.14787	0.000
(4)	+++++ / 0.47260	+++++	+++++	+++++	+++++	+++++	0.47260	0.000
41 2,4-DDE [2C]	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 2,4-DDD [2C]	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 4,4-DDE [2C]	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 4,4-DDD/2,4-DDT [2C]	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 4,4-DDT [2C]	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Last Edit : 24-Feb-2023 15:29 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
48 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 2 Tetrachloro-m-xylene [2C]	1.21526	1.19545	1.17555	1.21907	1.12560	1.11139	+++++	1.17372	3.897
$ 13 Decachlorobiphenyl [2C]	1.17066	1.20406	1.20549	1.31040	1.21104	1.20797	+++++	1.21827	3.898

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Batch File: \\target\share\chem4\ecd7.i\230224.b
Inst ID: ecd7.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06
FILENAME:	02242302ECD7	02242303ECD7	02242304ECD7	02242305ECD7	02242306ECD7	02242307ECD7
INJ.DATE:	24-FEB-2023	24-FEB-2023	24-FEB-2023	24-FEB-2023	24-FEB-2023	24-FEB-2023
INJ.TIME:	11:12	11:33	11:54	12:15	12:36	12:57

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
* 41 IS-BNB	3.493	3.492	3.492	3.492	3.491	3.491	3.493	3.393-3.593	3.492	0.001
$ 1 Tetrachloro-m-xylene	5.811	5.809	5.809	5.813	5.809	5.810	5.811	5.711-5.911	5.810	0.002
2 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	4.732	4.632-4.832	+++++	+++++
3 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	7.269	7.169-7.369	+++++	+++++
4 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	4.732	4.632-4.832	+++++	+++++
7 Aroclor-1016	7.272	7.272	7.272	7.270	7.271	7.270	7.272	7.172-7.372	7.271	0.001
6 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	8.403	8.303-8.503	+++++	+++++
8 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	9.295	9.195-9.395	+++++	+++++
9 Aroclor-1260	11.046	11.047	11.046	11.044	11.045	11.044	11.046	10.946-11.146	11.045	0.001
10 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	10.824	10.724-10.924	+++++	+++++
11 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	12.243	12.143-12.343	+++++	+++++
$ 13 Decachlorobiphenyl	13.897	13.893	13.893	13.899	13.892	13.898	13.897	13.797-13.997	13.895	0.003
* 12 IS-HBBP	14.269	14.268	14.268	14.267	14.268	14.268	14.269	14.169-14.369	14.268	0.001
42 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	9.260	9.210-9.310	+++++	+++++
43 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	9.801	9.751-9.851	+++++	+++++
44 2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	10.293	10.243-10.343	+++++	+++++
46 4,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	9.683	9.583-9.783	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Batch File: \\target\share\chem4\ecd7.i\230224.b
Inst ID: ecd7.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
47 4,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	10.254	10.154-10.354	+++++	+++++
48 4,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	10.754	10.654-10.854	+++++	+++++
49 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	1.842	1.742-1.942	+++++	+++++
50 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	6.708	6.608-6.808	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Batch File: \\target\share\chem4\ecd7.i\230224.b\230224.b
Inst ID: ecd7.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06
FILENAME:	02242302ECD7	02242303ECD7	02242304ECD7	02242305ECD7	02242306ECD7	02242307ECD7
INJ.DATE:	24-FEB-2023	24-FEB-2023	24-FEB-2023	24-FEB-2023	24-FEB-2023	24-FEB-2023
INJ.TIME:	11:12	11:33	11:54	12:15	12:36	12:57

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
* 40 IS-BNB [2C]	3.928	3.929	3.929	3.929	3.928	3.929	3.928	3.828-4.028	3.929	0.000
$ 2 Tetrachloro-m-xylene [	5.687	5.688	5.688	5.688	5.688	5.688	5.687	5.587-5.787	5.688	0.001
1 Aroclor-1221 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	4.958	4.858-5.058	+++++	+++++
4 Aroclor-1232 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	4.958	4.859-5.059	+++++	+++++
3 Aroclor-1242 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	7.254	7.154-7.354	+++++	+++++
6 Aroclor-1248 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	8.305	8.205-8.405	+++++	+++++
7 Aroclor-1016 [2C]	7.255	7.256	7.256	7.254	7.255	7.256	7.255	7.155-7.355	7.255	0.001
8 Aroclor-1254 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	9.447	9.347-9.547	+++++	+++++
10 Aroclor-1262 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	11.198	11.098-11.298	+++++	+++++
9 Aroclor-1260 [2C]	11.653	11.656	11.655	11.652	11.655	11.653	11.653	11.553-11.753	11.654	0.001
11 Aroclor-1268 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	12.431	12.331-12.531	+++++	+++++
$ 13 Decachlorobiphenyl [2C	14.120	14.120	14.119	14.122	14.119	14.120	14.120	14.020-14.220	14.120	0.001
* 12 IS-HBBP [2C]	15.008	15.008	15.008	15.008	15.007	15.008	15.008	14.908-15.108	15.008	0.000
41 2,4-DDE [2C]	+++++	+++++	+++++	+++++	+++++	+++++	9.911	9.861-9.961	+++++	+++++
42 2,4-DDD [2C]	+++++	+++++	+++++	+++++	+++++	+++++	9.536	9.486-9.586	+++++	+++++
44 4,4-DDE [2C]	+++++	+++++	+++++	+++++	+++++	+++++	10.209	10.109-10.309	+++++	+++++
45 4,4-DDD/2,4-DDT [2C]	+++++	+++++	+++++	+++++	+++++	+++++	10.667	10.567-10.767	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Batch File: \\target\share\chem4\ecd7.i\230224.b\230224.b
Inst ID: ecd7.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
46 4,4-DDT [2C]	+++++	+++++	+++++	+++++	+++++	+++++	11.092	10.992-11.192	+++++	+++++
48 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	1.703	1.603-1.803	+++++	+++++
49 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	7.178	7.078-7.278	+++++	+++++

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242301ECD7.D
Data file 2: /230224.b/230224.b/02242301ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: IB
Client ID:
Injection Date: 24-FEB-2023 10:51
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	0.019	382217	5.683	-0.002	180378	33.8	36.5	7.7	Tetrachloro-m-xylene
13.904	0.011	534110	14.120	0.001	295605	35.3	37.2	5.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	756896	12.3
Hexabromobiphenyl	1429847	1534275	7.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	336543	6.8
Hexabromobiphenyl	513946	521508	1.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	6.321	0.025	1873	31.1
Aroclor-1221	3	---			0.0	3	6.633	0.012	314	3.2
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	7.698	0.043	2193	6.0	3	---			0.0
Aroclor-1232	4	8.505	-0.076	11525	74.5	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	7.698	0.042	2193	3.1	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	8.505	-0.074	11525	35.2	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	9.596	-0.072	31424	64.3	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	10.167	-0.010	18361	30.8	5	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1260	1	11.098	0.054	6994	12.7	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	11.706	-0.027	7806	5.1	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1262	1	10.824	-0.005	16873	35.8	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	13.040	0.053	14031	18.6	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	12.709	0.009	6037	3.6	3	12.891	-0.001	659	0.7
Aroclor-1268	4	13.499	0.010	12396	2.3	4	13.710	0.001	1848	0.6
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.906 - 13.793) = 260205 Col1 Total PCB = 0.0 ppm*

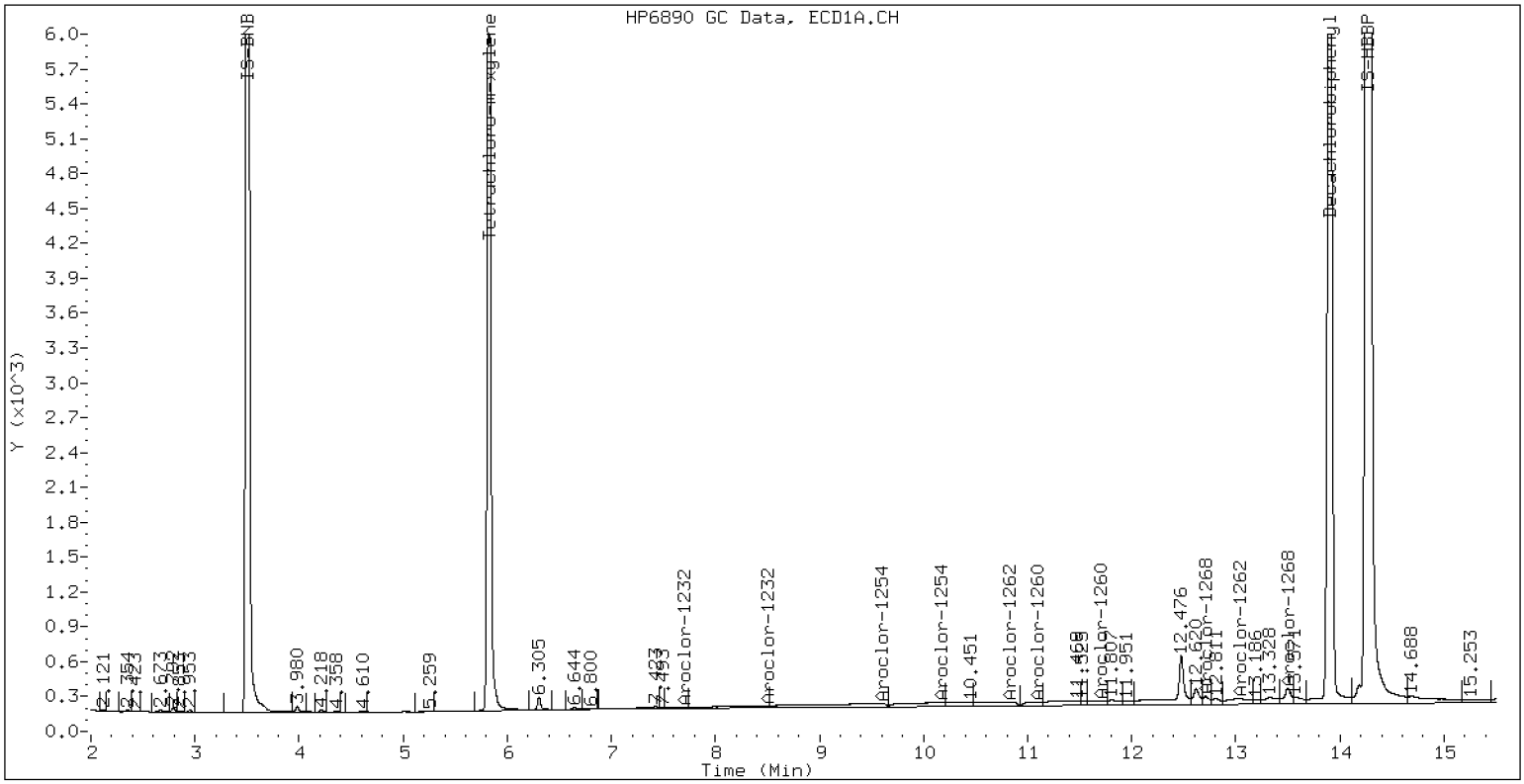
Total PCB Area Col2 (5.785 - 14.019) = 18252 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

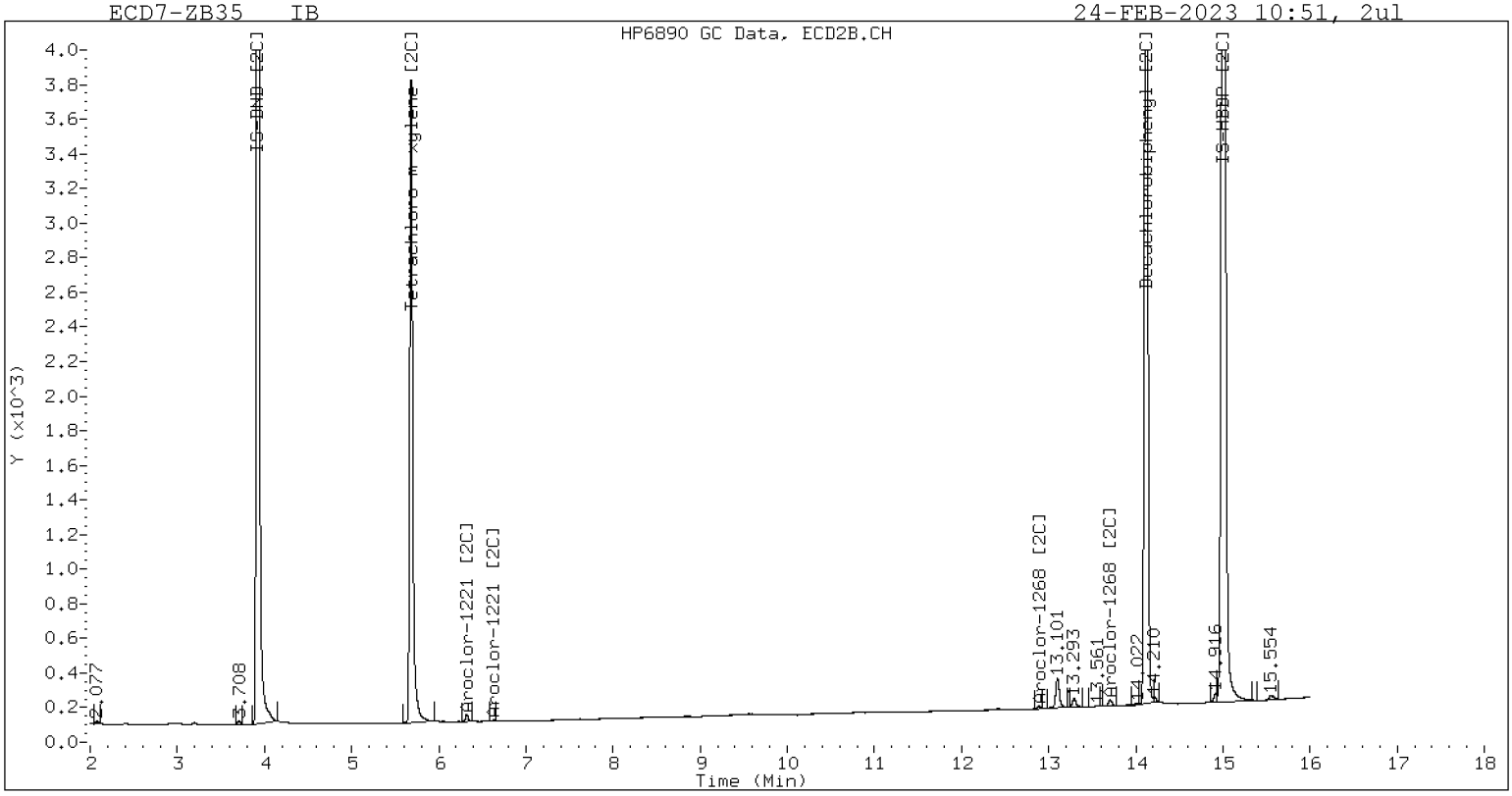
PCB Dual Column Chromatograms

ECD7-ZB5 IB 24-FEB-2023 10:51, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 IB 24-FEB-2023 10:51, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242302ECD7.D
Data file 2: /230224.b/230224.b/02242302ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR1660
Client ID:
Injection Date: 24-FEB-2023 11:12
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.811	0.005	405980	5.687	0.002	192160	40.4	41.5	2.9	Tetrachloro-m-xylene
13.897	0.004	563414	14.120	0.001	336737	40.0	43.0	7.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	673778	0.0
Hexabromobiphenyl	1429847	1429847	0.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	315256	0.0
Hexabromobiphenyl	513946	513946	0.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.272	0.001	66125	258.4	1	7.255	-0.001	46626	252.6
Aroclor-1016	2	7.654	-0.000	207370	265.8	2	7.855	-0.001	101071	270.1
Aroclor-1016	3	7.792	0.002	92507	242.9	3	8.055	0.001	43448	257.1
Aroclor-1016	4	8.406	0.001	64388	261.5	4	8.306	-0.000	33986	256.3
Total Col1Ave (4 peaks):					257.2	Total Col2Ave (4 peaks):				259.0 RPD = 1
Corrected Ave (3 peaks):					254.3	Corrected Ave (3 peaks):				255.3 RPD = 0
CalAmt %D:					2.9	CalAmt %D:				3.6
Aroclor-1260	1	11.046	0.001	138355	269.0	1	11.653	0.001	77114	255.2
Aroclor-1260	2	11.363	0.002	147051	273.6	2	11.918	0.001	203401	263.7
Aroclor-1260	3	11.736	0.003	383171	268.8	3	12.435	-0.000	51517	251.7
Aroclor-1260	4	12.141	0.002	200399	279.2	4	12.502	0.001	134797	259.3
Aroclor-1260	5	12.247	0.003	83796	271.2	NS	---			----
Total Col1Ave (5 peaks):					272.4	Total Col2Ave (4 peaks):				257.5 RPD = 6
Corrected Ave (4 peaks):					270.7	Corrected Ave (3 peaks):				255.4 RPD = 6
CalAmt %D:					8.9	CalAmt %D:				3.0

Total PCB Area Col1 (5.906 - 13.793) = 4024419 Col1 Total PCB = 0.5 ppm*

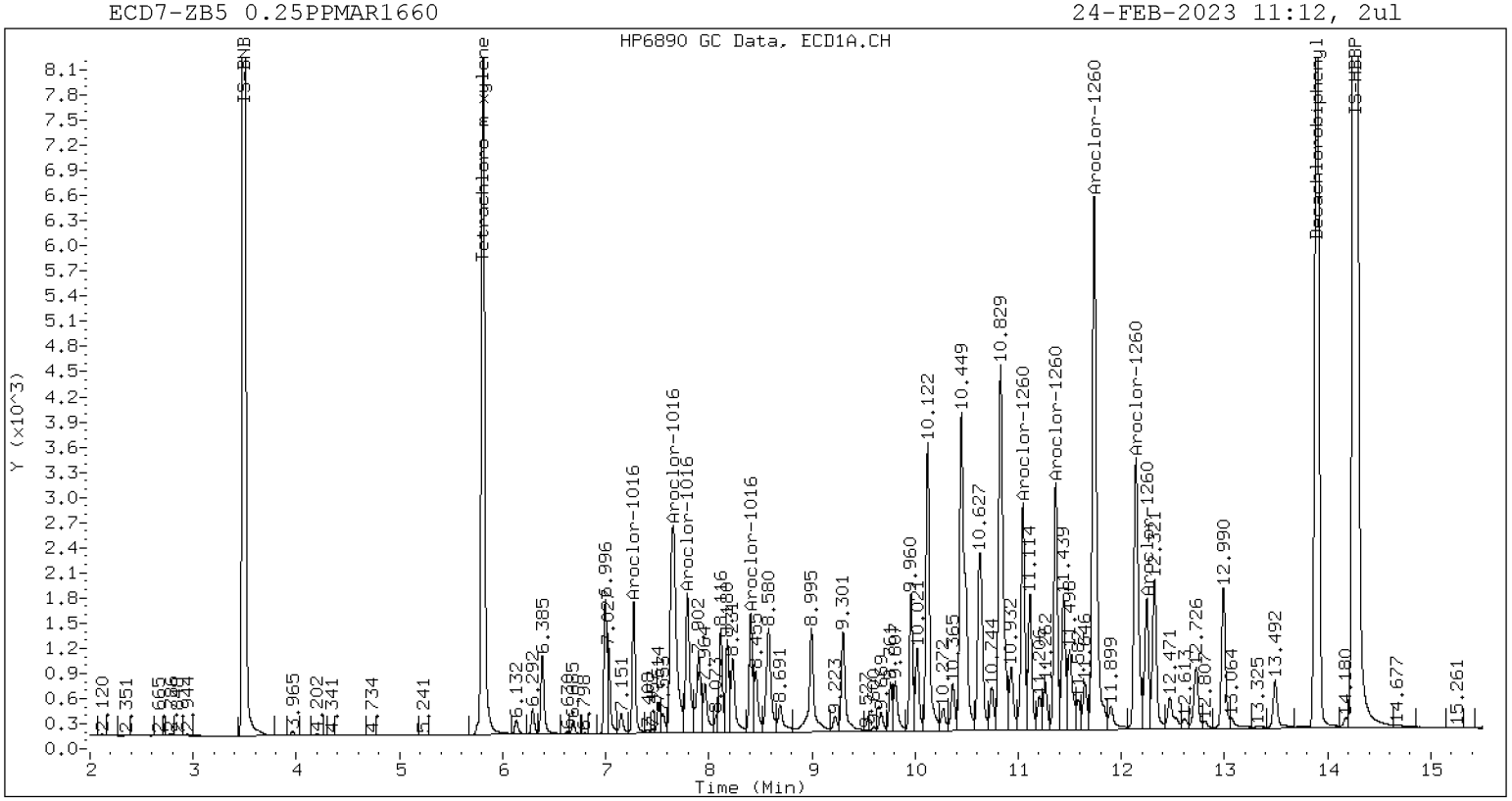
Total PCB Area Col2 (5.785 - 14.019) = 1889311 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

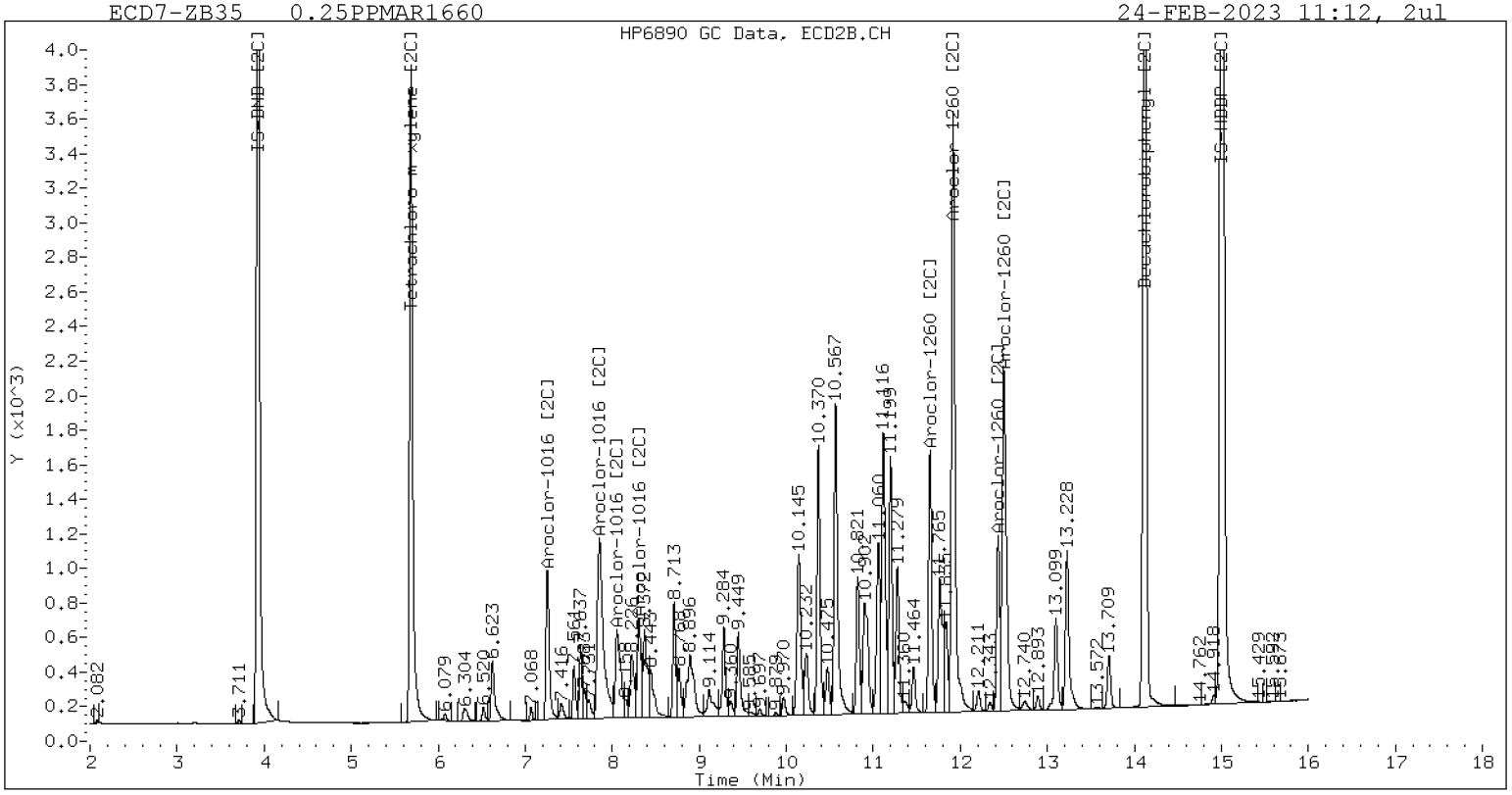
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1660 24-FEB-2023 11:12, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR1660 24-FEB-2023 11:12, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242303ECD7.D
Data file 2: /230224.b/230224.b/02242303ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.02PPMAR1660
Client ID:
Injection Date: 24-FEB-2023 11:33
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.002	29768	5.688	0.003	14932	3.1	3.3	5.7	Tetrachloro-m-xylene
13.893	0.000	45992	14.120	0.000	23950	3.4	3.1	9.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	637010	-5.5
Hexabromobiphenyl	1429847	1386953	-3.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	307177	-2.6
Hexabromobiphenyl	513946	511463	-0.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.272	0.001	5052	20.9	1	7.256	0.000	3894	21.7
Aroclor-1016	2	7.659	0.005	14714	19.9	2	7.864	0.008	6253	17.1
Aroclor-1016	3	7.795	0.005	8226	22.8	3	8.060	0.006	3076	18.7
Aroclor-1016	4	8.407	0.002	4780	20.5	4	8.309	0.002	2443	18.9
Total Col1Ave (4 peaks):					21.1	Total Col2Ave (4 peaks):				19.1 RPD = 10
Corrected Ave (3 peaks):					20.5	Corrected Ave (3 peaks):				18.2 RPD = 11
CalAmt %D:					5.3	CalAmt %D:				-4.5
Aroclor-1260	1	11.047	0.003	10147	20.3	1	11.656	0.003	6759	22.5
Aroclor-1260	2	11.364	0.003	10287	19.7	2	11.922	0.005	16592	21.6
Aroclor-1260	3	11.740	0.006	28043	20.3	3	12.438	0.002	4506	22.1
Aroclor-1260	4	12.145	0.006	13540	19.4	4	12.505	0.004	11037	21.3
Aroclor-1260	5	12.246	0.002	6182	20.6	NS	---			----
Total Col1Ave (5 peaks):					20.1	Total Col2Ave (4 peaks):				21.9 RPD = 9
Corrected Ave (4 peaks):					19.9	Corrected Ave (3 peaks):				21.7 RPD = 8
CalAmt %D:					0.4	CalAmt %D:				9.4

Total PCB Area Col1 (5.906 - 13.793) = 324832 Col1 Total PCB = 0.0 ppm*

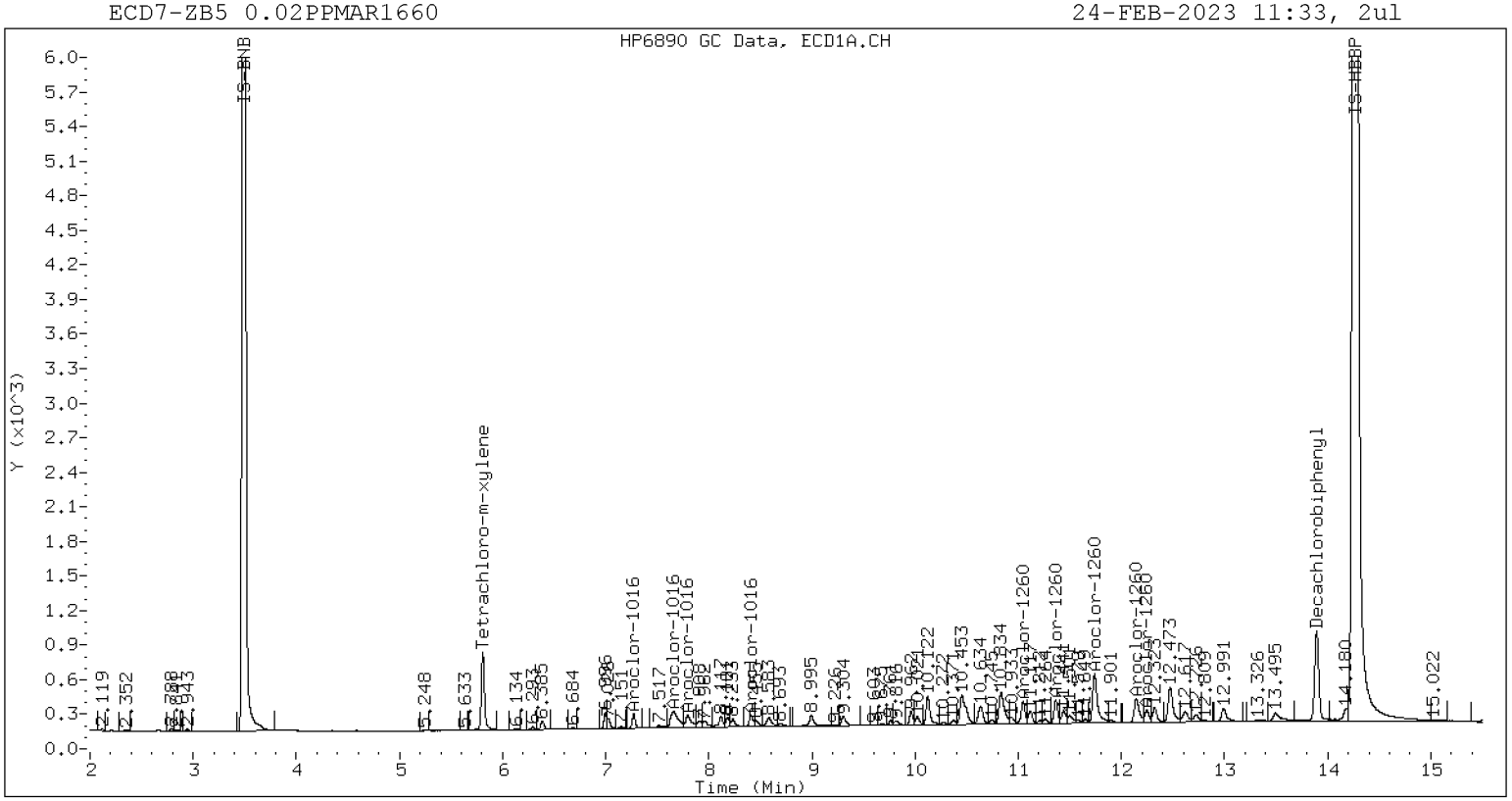
Total PCB Area Col2 (5.785 - 14.019) = 157149 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

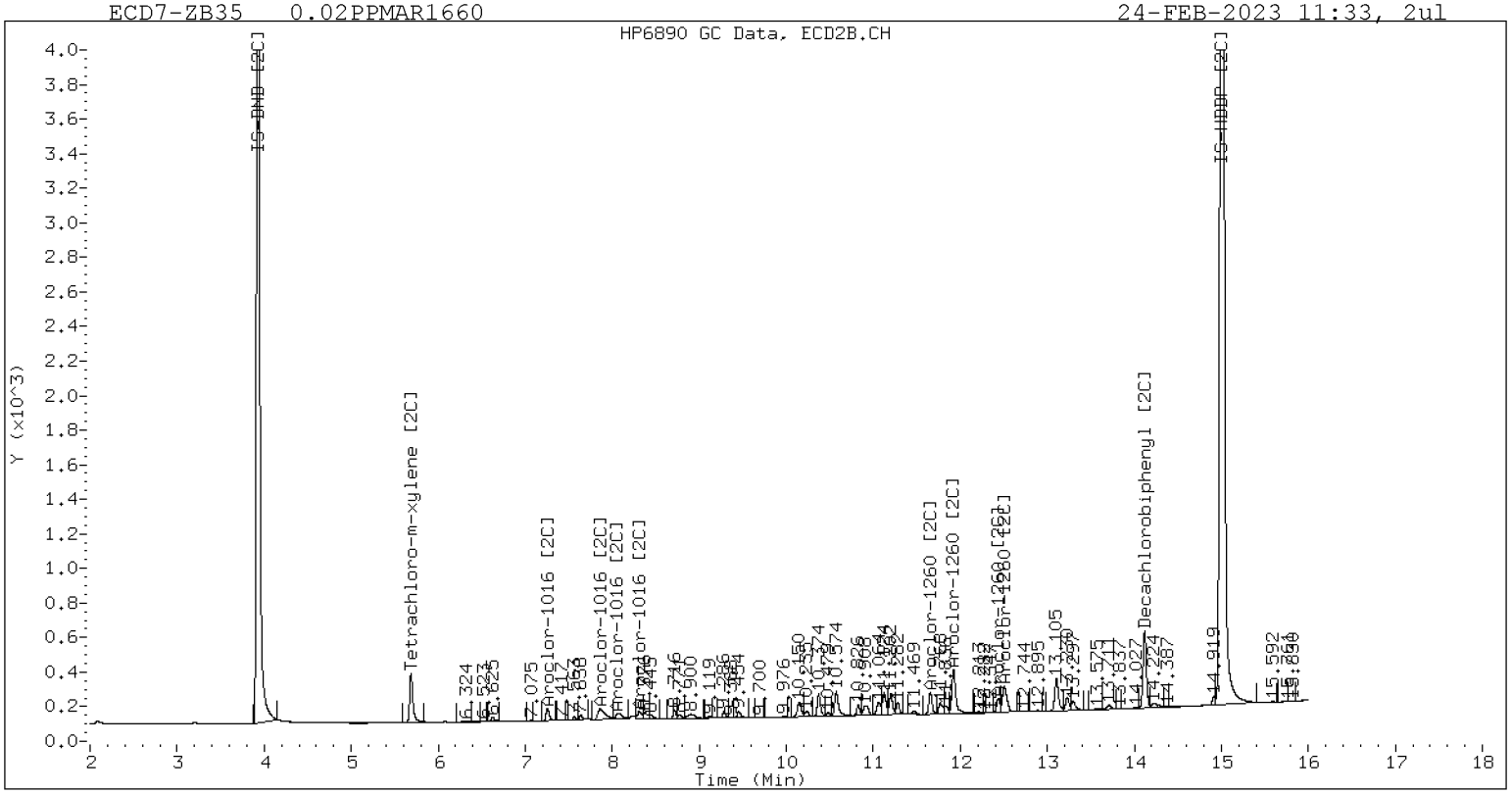
PCB Dual Column Chromatograms

ECD7-ZB5 0.02PPMAR1660 24-FEB-2023 11:33, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.02PPMAR1660 24-FEB-2023 11:33, 2ul

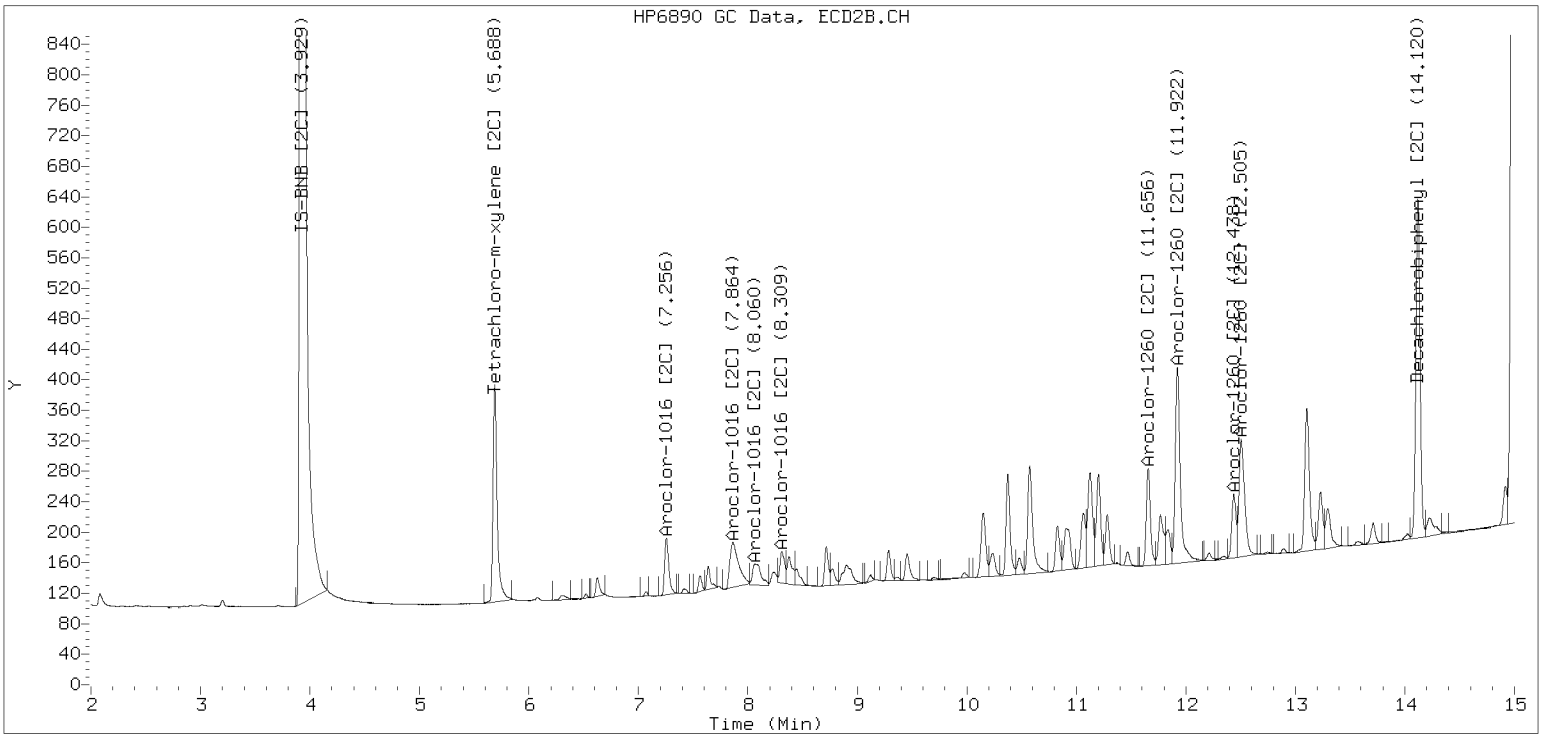


ZB-35 Manual Integration: YES

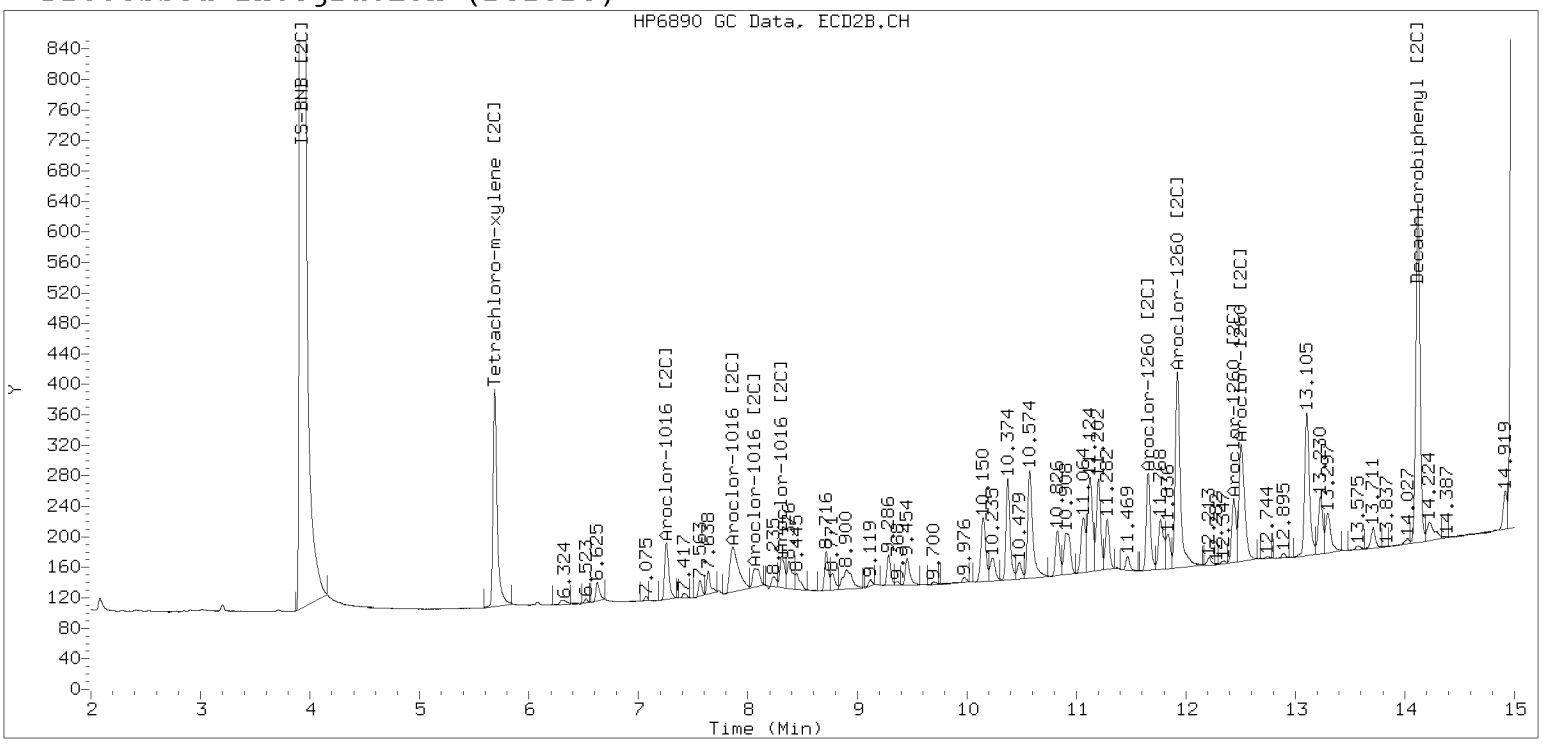
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230224.b/230224.b/02242303ECD7.D Injection Date: 24-FEB-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242304ECD7.D
Data file 2: /230224.b/230224.b/02242304ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.05PPMAR1660
Client ID:
Injection Date: 24-FEB-2023 11:54
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.003	78493	5.688	0.003	36772	8.3	8.1	2.2	Tetrachloro-m-xylene
13.893	-0.000	113544	14.119	-0.000	62745	8.2	7.9	3.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	630965	-6.4
Hexabromobiphenyl	1429847	1409464	-1.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	307599	-2.4
Hexabromobiphenyl	513946	521112	1.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.272	0.002	12829	53.5	1	7.256	0.000	9654	53.6
Aroclor-1016	2	7.660	0.006	36461	49.9	2	7.864	0.008	18085	49.5
Aroclor-1016	3	7.795	0.005	19865	55.7	3	8.063	0.008	9071	55.0
Aroclor-1016	4	8.408	0.003	11411	49.5	4	8.310	0.003	7309	56.5
Total Col1Ave (4 peaks):					52.2	Total Col2Ave (4 peaks):				53.7 RPD = 3
Corrected Ave (3 peaks):					51.0	Corrected Ave (3 peaks):				52.7 RPD = 3
CalAmt %D:					4.3	CalAmt %D:				7.3
Aroclor-1260	1	11.046	0.002	25727	50.7	1	11.655	0.002	15996	52.2
Aroclor-1260	2	11.363	0.002	26482	50.0	2	11.922	0.004	40487	51.8
Aroclor-1260	3	11.739	0.005	70871	50.4	3	12.437	0.002	10248	49.4
Aroclor-1260	4	12.143	0.004	34239	48.4	4	12.506	0.004	26828	50.9
Aroclor-1260	5	12.246	0.002	15109	49.6	NS	---			----
Total Col1Ave (5 peaks):					49.8	Total Col2Ave (4 peaks):				51.1 RPD = 2
Corrected Ave (4 peaks):					49.6	Corrected Ave (3 peaks):				50.7 RPD = 2
CalAmt %D:					-0.3	CalAmt %D:				2.1

Total PCB Area Col1 (5.906 - 13.793) = 758292 Col1 Total PCB = 0.1 ppm*

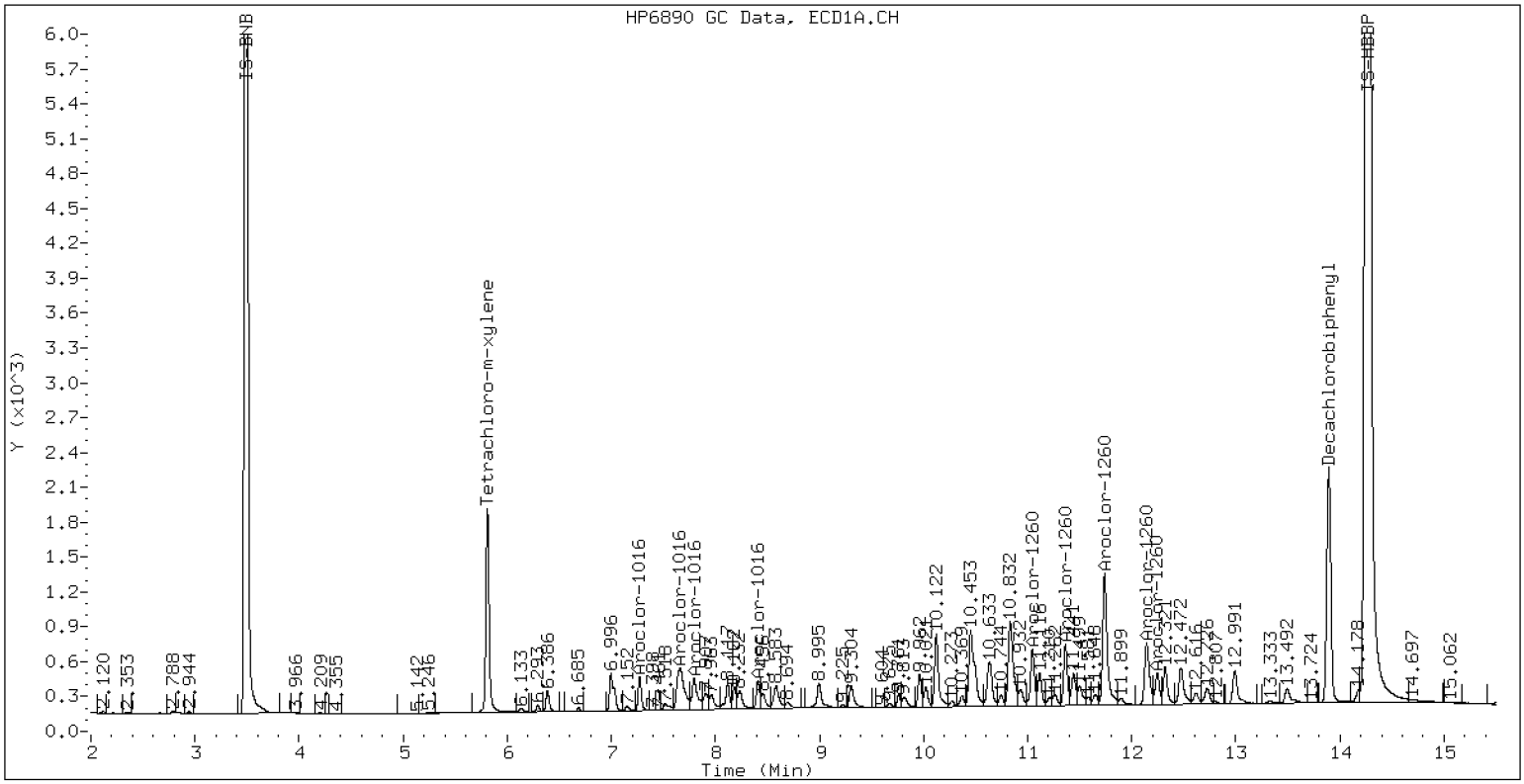
Total PCB Area Col2 (5.785 - 14.019) = 386383 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

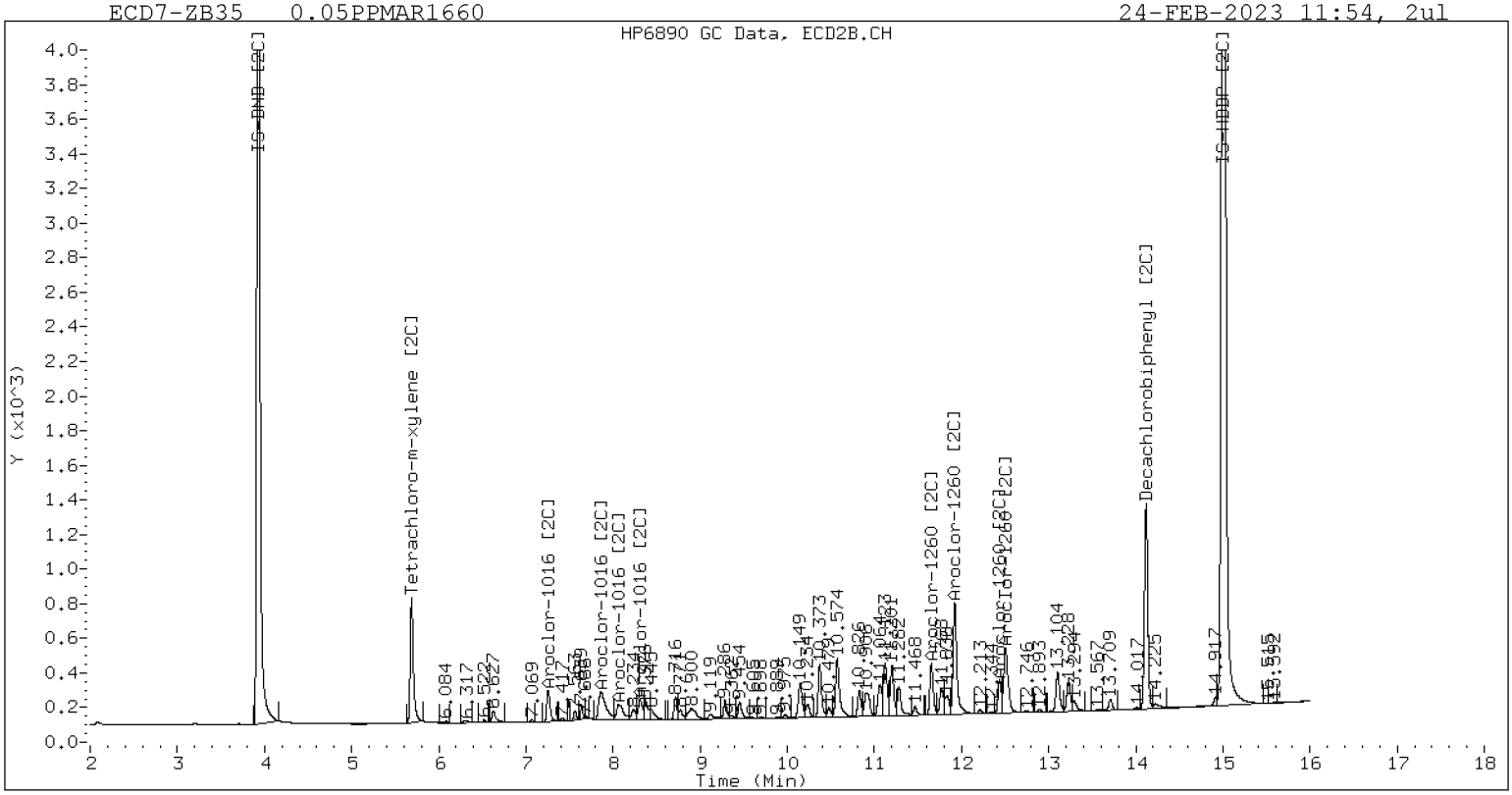
PCB Dual Column Chromatograms

ECD7-ZB5 0.05PPMAR1660 24-FEB-2023 11:54, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.05PPMAR1660 24-FEB-2023 11:54, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242305ECD7.D
Data file 2: /230224.b/230224.b/02242305ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 1.0PPMAR1660
Client ID:
Injection Date: 24-FEB-2023 12:15
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.813	0.006	1641874	5.688	0.003	709674	166.2	151.5	9.3	Tetrachloro-m-xylene
13.899	0.006	2344583	14.122	0.002	1300114	161.9	158.6	2.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	661440	-1.8
Hexabromobiphenyl	1429847	1470100	2.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	319272	1.3
Hexabromobiphenyl	513946	538138	4.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.270	-0.000	220519	877.8	1	7.254	-0.001	162833	871.2
Aroclor-1016	2	7.652	-0.002	731607	955.3	2	7.852	-0.004	373610	985.8
Aroclor-1016	3	7.789	-0.001	307629	822.8	3	8.051	-0.003	156666	915.2
Aroclor-1016	4	8.404	-0.001	229387	949.1	4	8.305	-0.002	117186	872.6
Total Col1Ave (4 peaks):					901.3	Total Col2Ave (4 peaks):				911.2
Corrected Ave (3 peaks):					883.3	Corrected Ave (3 peaks):				886.3
CalAmt %D:					-9.9	CalAmt %D:				-8.9
Aroclor-1260	1	11.044	-0.000	504641	954.2	1	11.652	-0.000	282606	893.1
Aroclor-1260	2	11.360	-0.001	524931	950.0	2	11.917	-0.000	709329	878.4
Aroclor-1260	3	11.734	-0.000	1410270	962.3	3	12.434	-0.001	215124	1003.8
Aroclor-1260	4	12.137	-0.002	720770	976.7	4	12.501	-0.001	506566	930.6
Aroclor-1260	5	12.243	-0.001	304211	957.7	NS	---			----
Total Col1Ave (5 peaks):					960.2	Total Col2Ave (4 peaks):				926.5
Corrected Ave (4 peaks):					956.0	Corrected Ave (3 peaks):				900.7
CalAmt %D:					-4.0	CalAmt %D:				-7.4

Total PCB Area Col1 (5.906 - 13.793) = 14454279 Col1 Total PCB = 1.8 ppm*

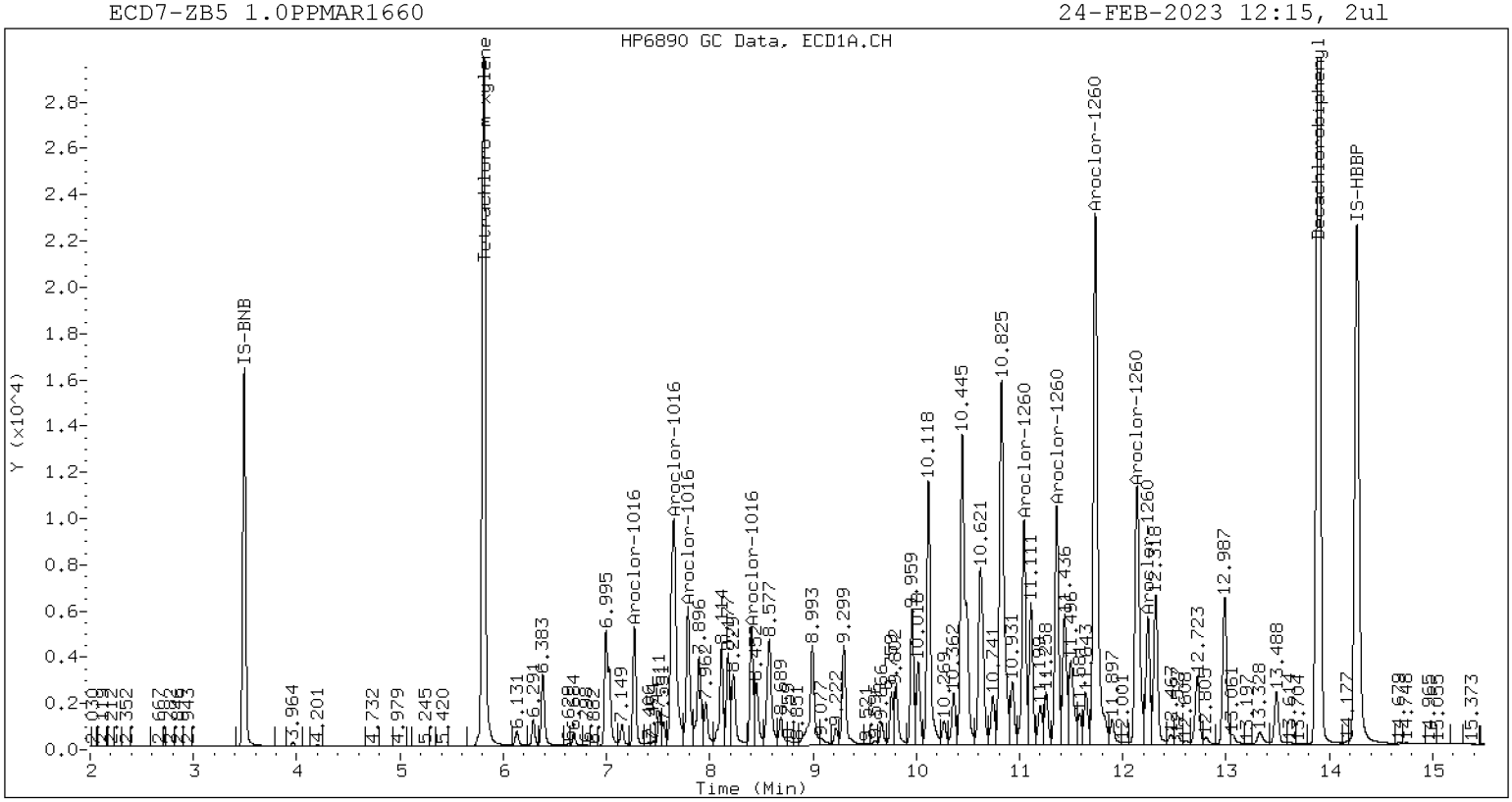
Total PCB Area Col2 (5.785 - 14.019) = 7029563 Col2 Total PCB = 1.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

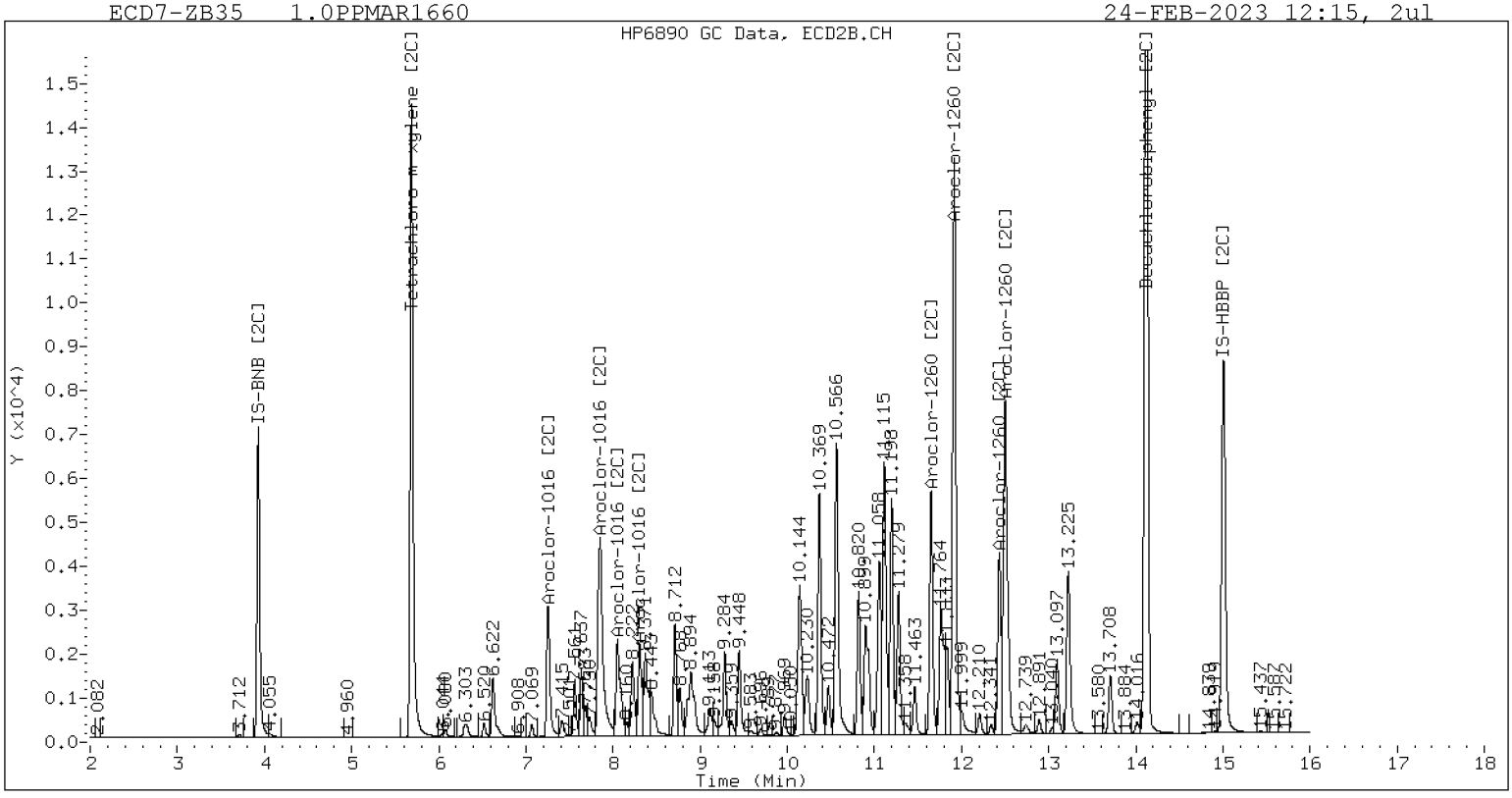
PCB Dual Column Chromatograms

ECD7-ZB5 1.0PPMAR1660 24-FEB-2023 12:15, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 1.0PPMAR1660 24-FEB-2023 12:15, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242306ECD7.D
Data file 2: /230224.b/230224.b/02242306ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.1PPMAR1660
Client ID:
Injection Date: 24-FEB-2023 12:36
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.002	155528	5.688	0.003	74628	15.9	16.0	0.9	Tetrachloro-m-xylene
13.892	-0.001	227253	14.119	-0.000	128496	15.8	15.8	0.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	655979	-2.6
Hexabromobiphenyl	1429847	1464509	2.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	317418	0.7
Hexabromobiphenyl	513946	532962	3.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.271	0.000	25761	103.4	1	7.255	-0.000	19315	103.9
Aroclor-1016	2	7.657	0.003	75616	99.6	2	7.863	0.007	40308	107.0
Aroclor-1016	3	7.794	0.004	39547	106.7	3	8.059	0.005	18304	107.6
Aroclor-1016	4	8.406	0.001	24260	101.2	4	8.309	0.002	14708	110.2
Total Col1Ave (4 peaks):					102.7	Total Col2Ave (4 peaks):				107.2 RPD = 4
Corrected Ave (3 peaks):					101.4	Corrected Ave (3 peaks):				106.2 RPD = 5
CalAmt %D:					2.7	CalAmt %D:				7.2
Aroclor-1260	1	11.045	0.000	52009	98.7	1	11.655	0.002	31282	99.8
Aroclor-1260	2	11.362	0.001	55116	100.1	2	11.920	0.003	80574	100.7
Aroclor-1260	3	11.738	0.004	145604	99.7	3	12.437	0.002	19566	92.2
Aroclor-1260	4	12.141	0.002	72408	98.5	4	12.503	0.001	53588	99.4
Aroclor-1260	5	12.245	0.001	30745	97.2	NS	---			----
Total Col1Ave (5 peaks):					98.8	Total Col2Ave (4 peaks):				98.0 RPD = 1
Corrected Ave (4 peaks):					98.5	Corrected Ave (3 peaks):				97.1 RPD = 1
CalAmt %D:					-1.2	CalAmt %D:				-2.0

Total PCB Area Col1 (5.906 - 13.793) = 1555762 Col1 Total PCB = 0.2 ppm*

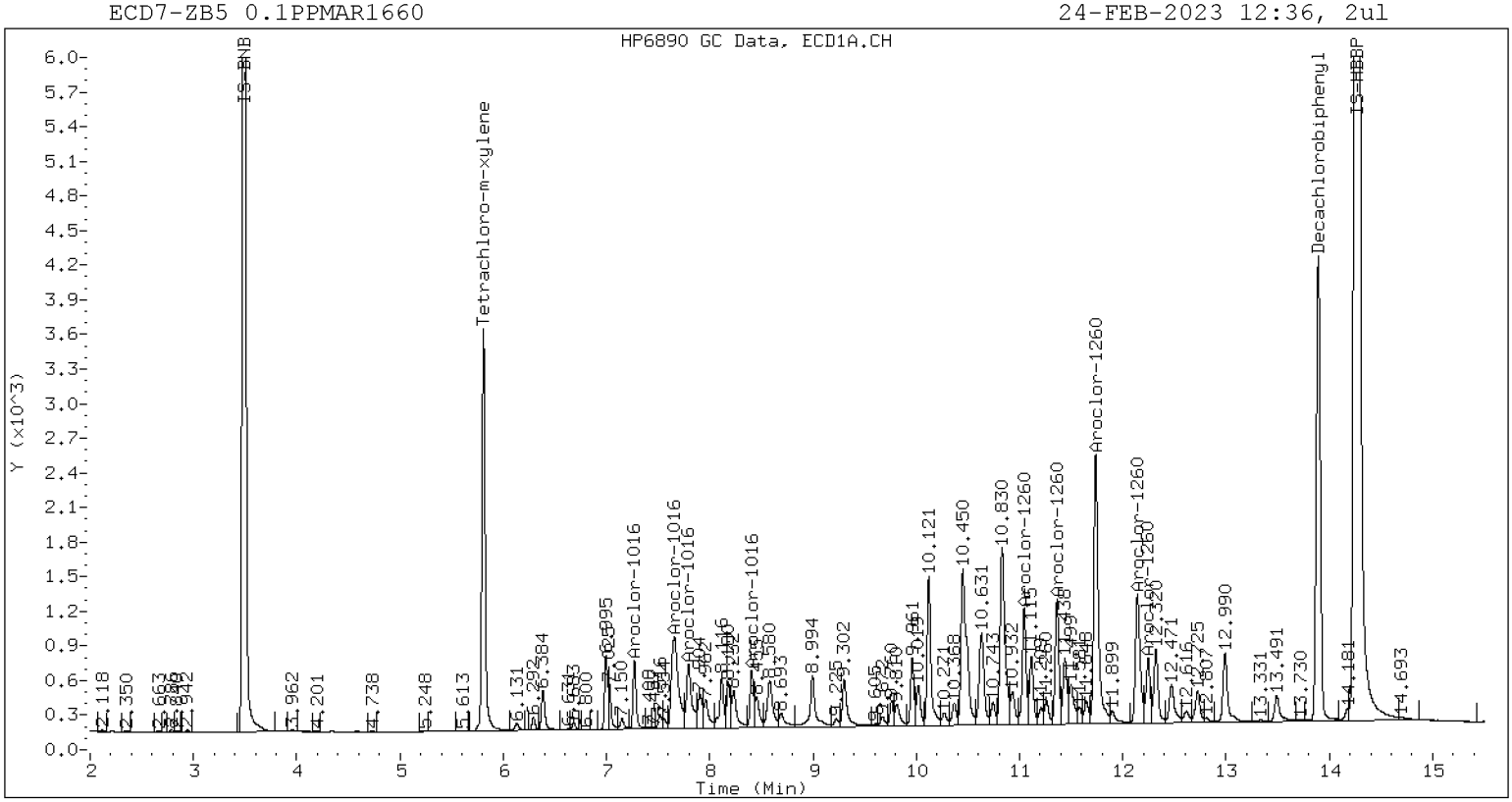
Total PCB Area Col2 (5.785 - 14.019) = 764924 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

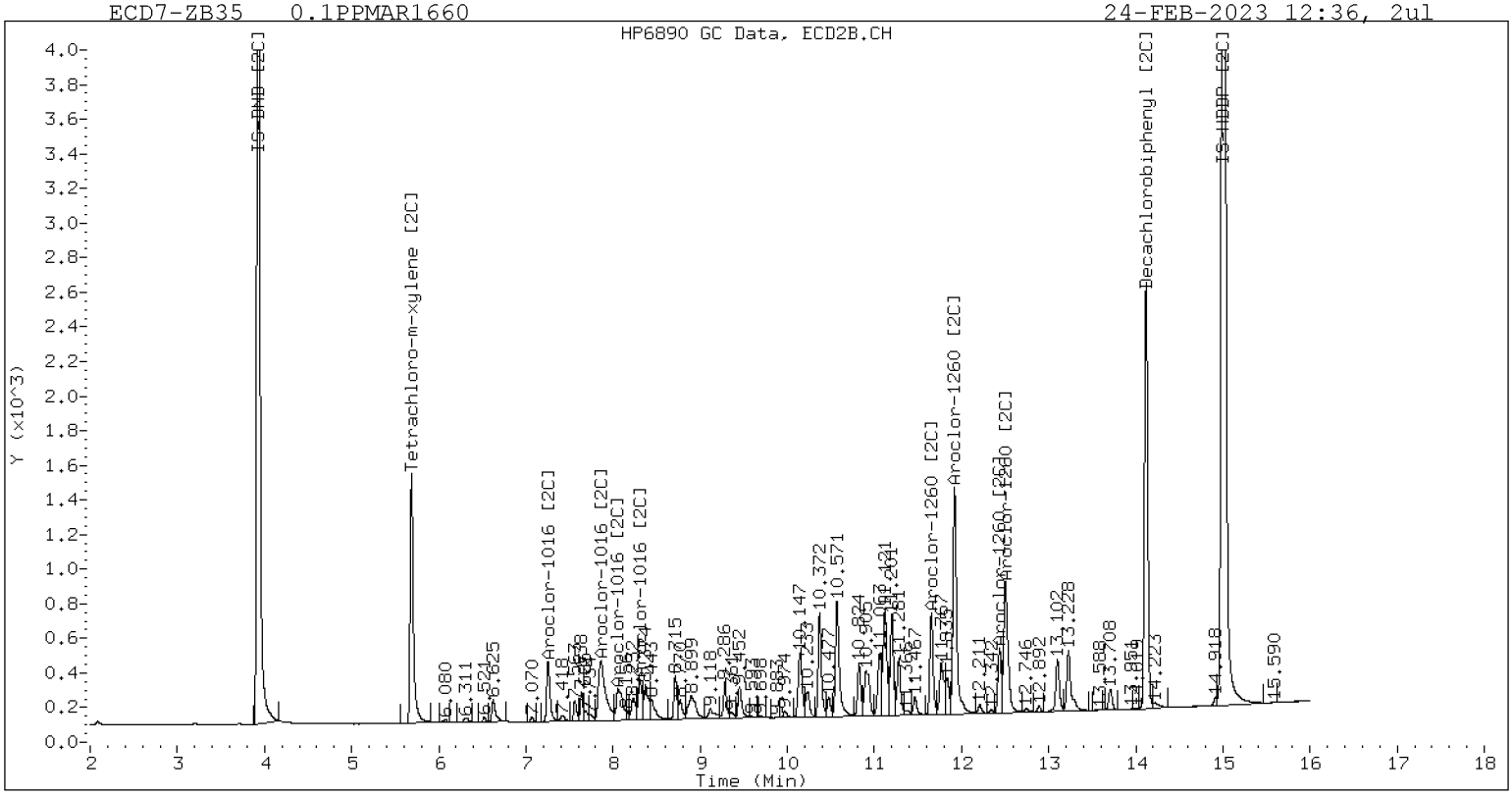
PCB Dual Column Chromatograms

ECD7-ZB5 0.1PPMAR1660 24-FEB-2023 12:36, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.1PPMAR1660 24-FEB-2023 12:36, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242307ECD7.D
Data file 2: /230224.b/230224.b/02242307ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.5PPMAR1660
Client ID:
Injection Date: 24-FEB-2023 12:57
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.810	0.004	724614	5.688	0.003	359257	75.2	76.7	2.0	Tetrachloro-m-xylene
13.898	0.005	1056911	14.120	0.000	650153	74.3	79.5	6.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	645275	-4.2
Hexabromobiphenyl	1429847	1445345	1.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	319170	1.2
Hexabromobiphenyl	513946	536853	4.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.270	0.000	115193	470.0	1	7.256	0.000	86287	461.8
Aroclor-1016	2	7.654	0.000	369991	495.2	2	7.856	0.000	192524	508.1
Aroclor-1016	3	7.790	0.000	160952	441.3	3	8.055	0.000	81039	473.6
Aroclor-1016	4	8.405	0.000	115032	487.9	4	8.307	0.000	62136	462.8
Total Col1Ave (4 peaks):					473.6	Total Col2Ave (4 peaks):				476.6 RPD = 1
Corrected Ave (3 peaks):					466.4	Corrected Ave (3 peaks):				466.1 RPD = 0
			CalAmt %D:		-5.3			CalAmt %D:		-4.7
Aroclor-1260	1	11.044	0.000	247212	475.5	1	11.653	0.000	145247	460.1
Aroclor-1260	2	11.361	0.000	262877	483.9	2	11.918	0.000	379838	471.5
Aroclor-1260	3	11.734	0.000	678830	471.1	3	12.436	0.000	104092	486.9
Aroclor-1260	4	12.139	0.000	356067	490.7	4	12.502	0.000	258953	476.9
Aroclor-1260	5	12.244	0.000	150280	481.2	NS	---			----
Total Col1Ave (5 peaks):					480.5	Total Col2Ave (4 peaks):				473.8 RPD = 1
Corrected Ave (4 peaks):					477.9	Corrected Ave (3 peaks):				469.5 RPD = 2
			CalAmt %D:		-3.9			CalAmt %D:		-5.2

Total PCB Area Col1 (5.906 - 13.793) = 7134169 Col1 Total PCB = 0.9 ppm*

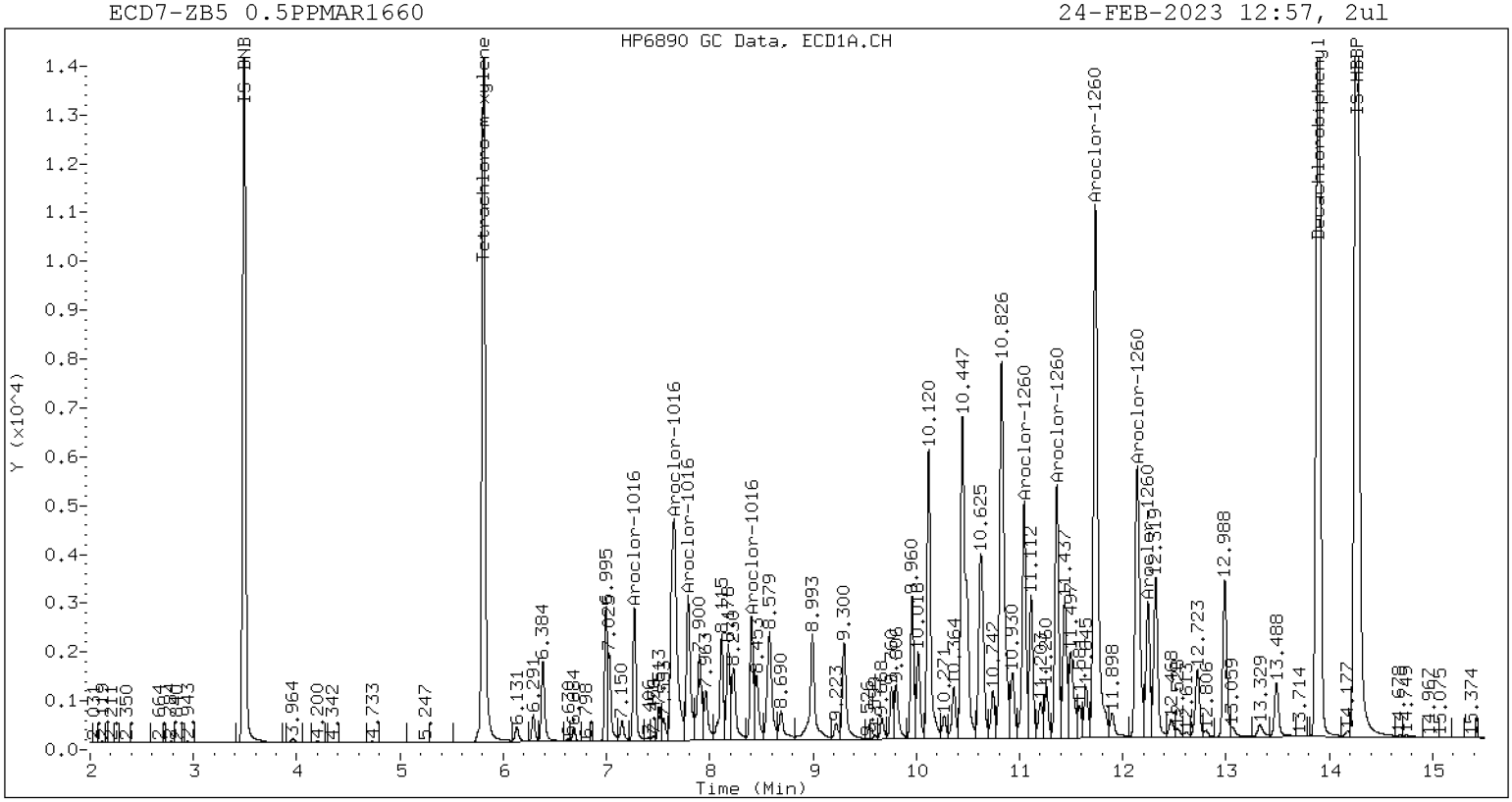
Total PCB Area Col2 (5.785 - 14.019) = 3589735 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

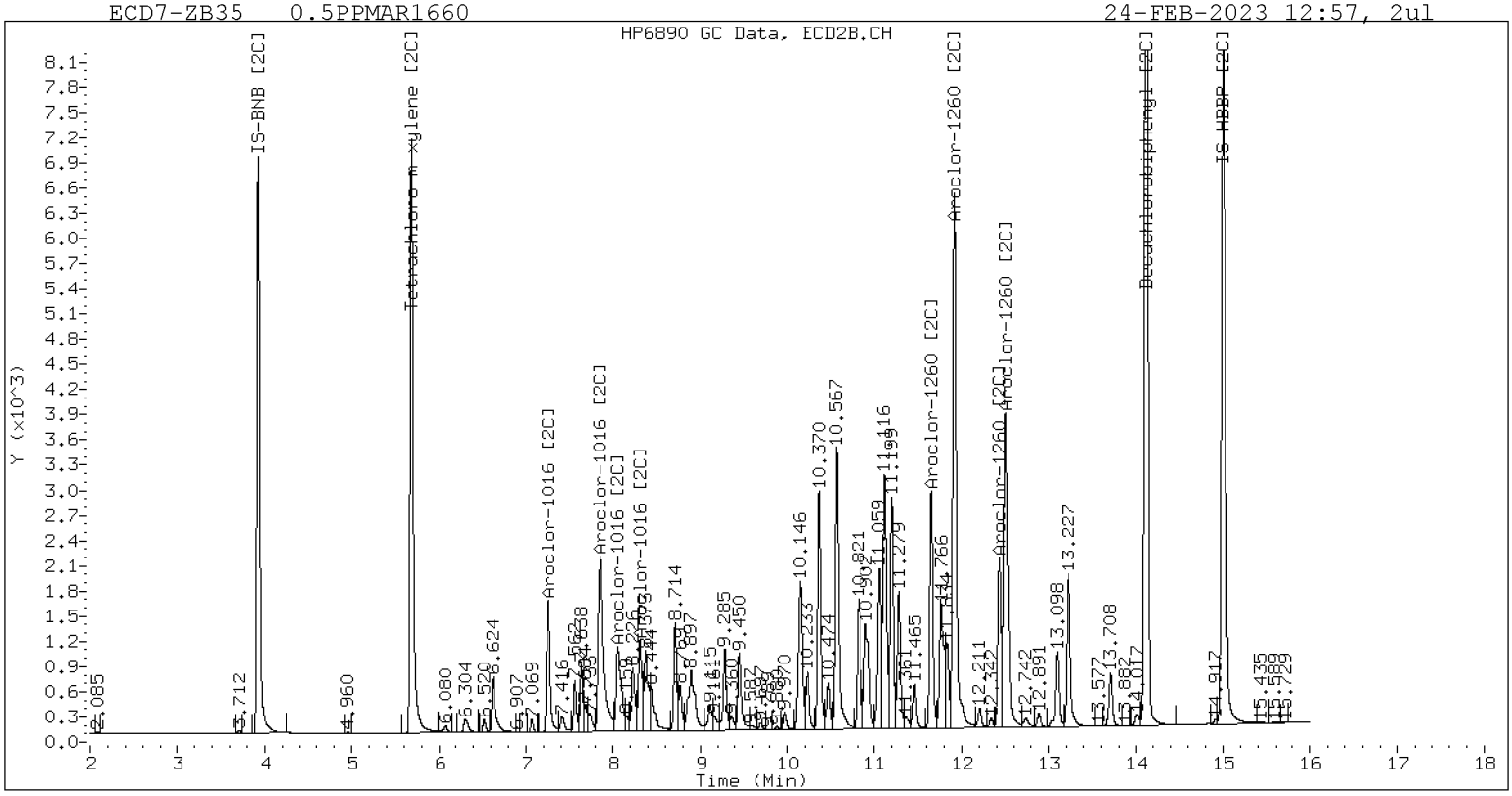
PCB Dual Column Chromatograms

ECD7-ZB5 0.5PPMAR1660 24-FEB-2023 12:57, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.5PPMAR1660 24-FEB-2023 12:57, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242308ECD7.D
Data file 2: /230224.b/230224.b/02242308ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR1242
Client ID:
Injection Date: 24-FEB-2023 13:18
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.003	434187	5.688	0.003	214306	46.0	46.5	1.1	Tetrachloro-m-xylene
13.894	0.000	515867	14.119	-0.001	312943	35.6	38.5	7.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	632576	-6.1
Hexabromobiphenyl	1429847	1469715	2.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	314129	-0.4
Hexabromobiphenyl	513946	534294	4.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.271	0.000	49009	250.0	1	7.255	0.000	36487	250.0
Aroclor-1242	2	7.656	0.000	148833	250.0	2	7.858	0.000	76699	250.0
Aroclor-1242	3	8.405	0.000	46308	250.0	3	9.167	0.000	23866	250.0
Aroclor-1242	4	8.579	0.000	68453	250.0	4	9.597	0.000	29080	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.906 - 13.793) = 1221467 Col1 Total PCB = 0.2 ppm*

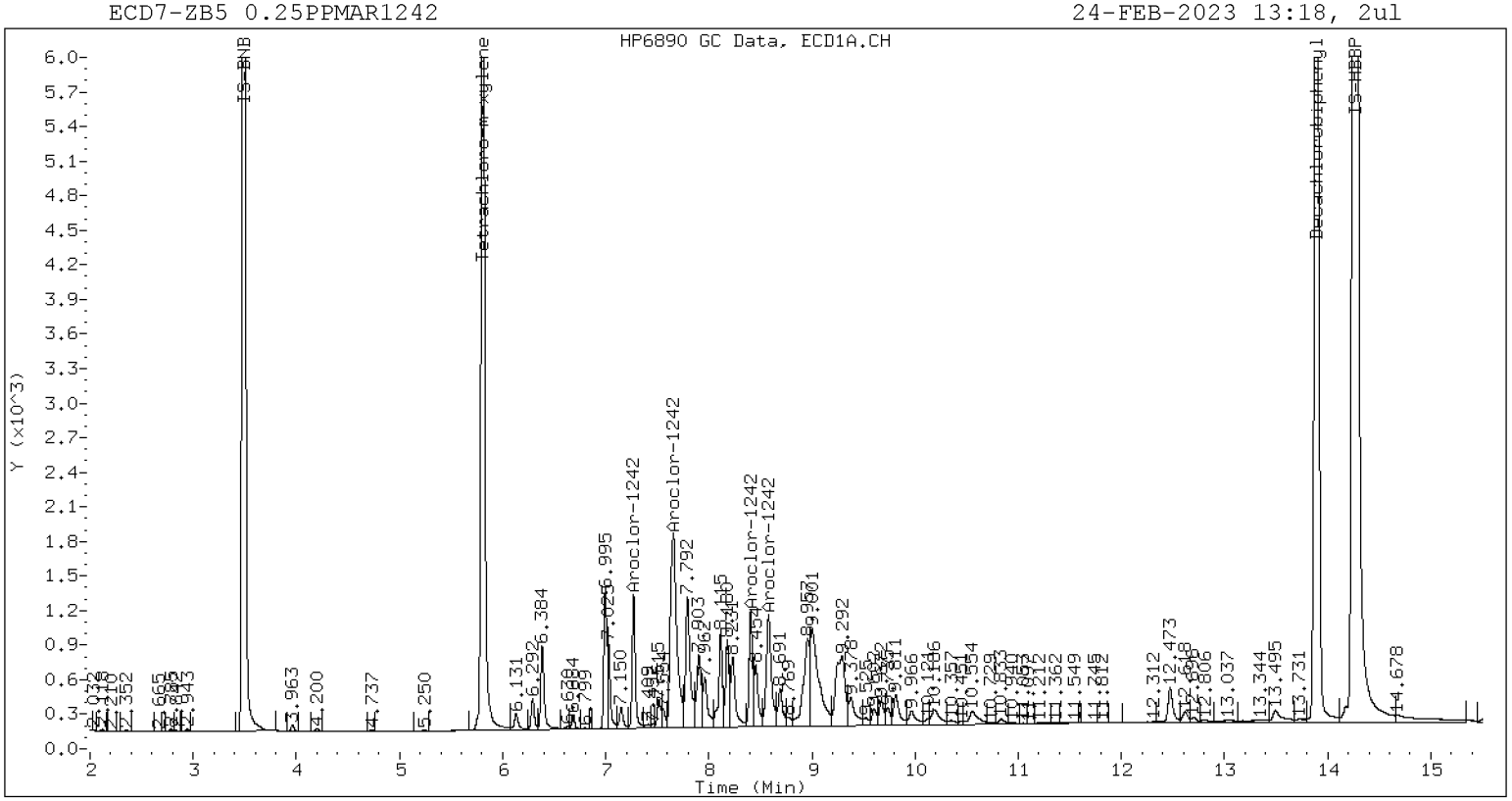
Total PCB Area Col2 (5.785 - 14.019) = 572067 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

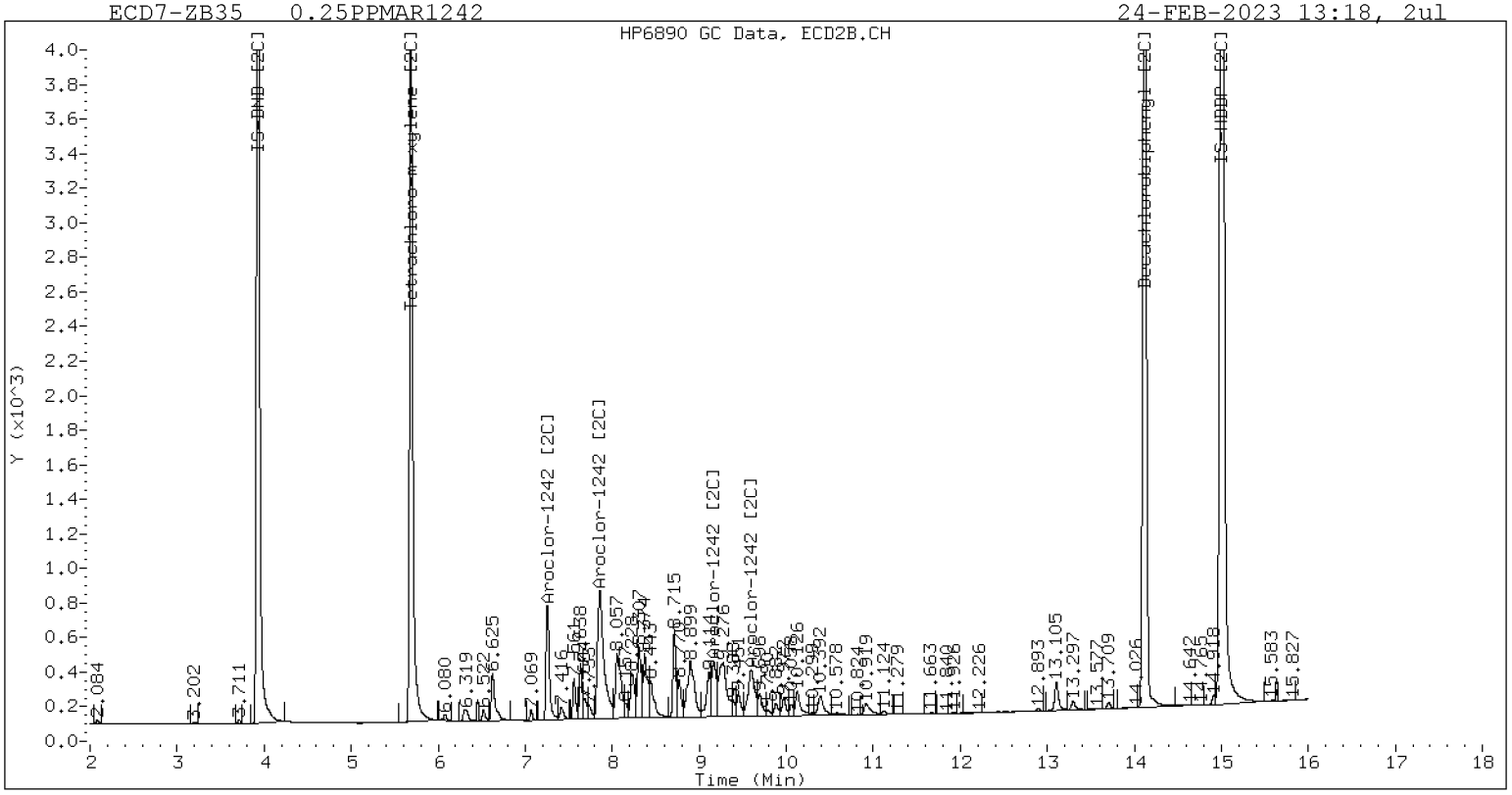
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1242 24-FEB-2023 13:18, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR1242 24-FEB-2023 13:18, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242309ECD7.D
Data file 2: /230224.b/230224.b/02242309ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR1248
Client ID:
Injection Date: 24-FEB-2023 13:39
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.003	349513	5.688	0.003	176615	36.6	37.9	3.4	Tetrachloro-m-xylene
13.894	0.001	523008	14.121	0.001	322054	36.4	39.3	7.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	639911	-5.0
Hexabromobiphenyl	1429847	1458696	2.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	317938	0.9
Hexabromobiphenyl	513946	538760	4.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.405	0.000	78055	250.0	1	8.308	0.000	37951	250.0
Aroclor-1248	2	8.580	0.000	99216	250.0	2	8.714	0.000	39239	250.0
Aroclor-1248	3	8.999	0.000	187178	250.0	3	9.166	0.000	45157	250.0
Aroclor-1248	4	9.295	0.000	95291	250.0	4	9.590	0.000	54216	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.906 - 13.793) = 1565180 Col1 Total PCB = 0.2 ppm*

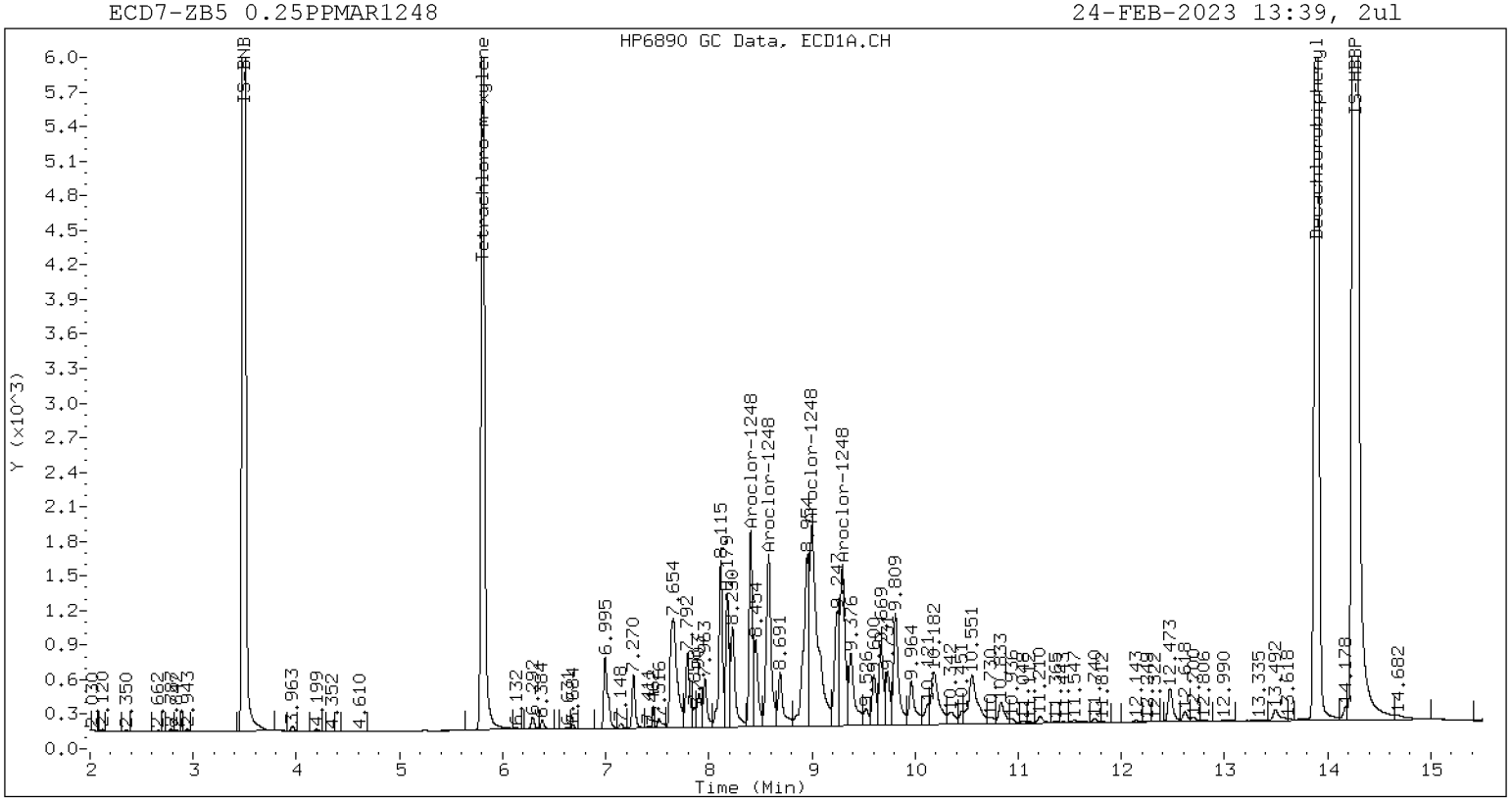
Total PCB Area Col2 (5.785 - 14.019) = 754991 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

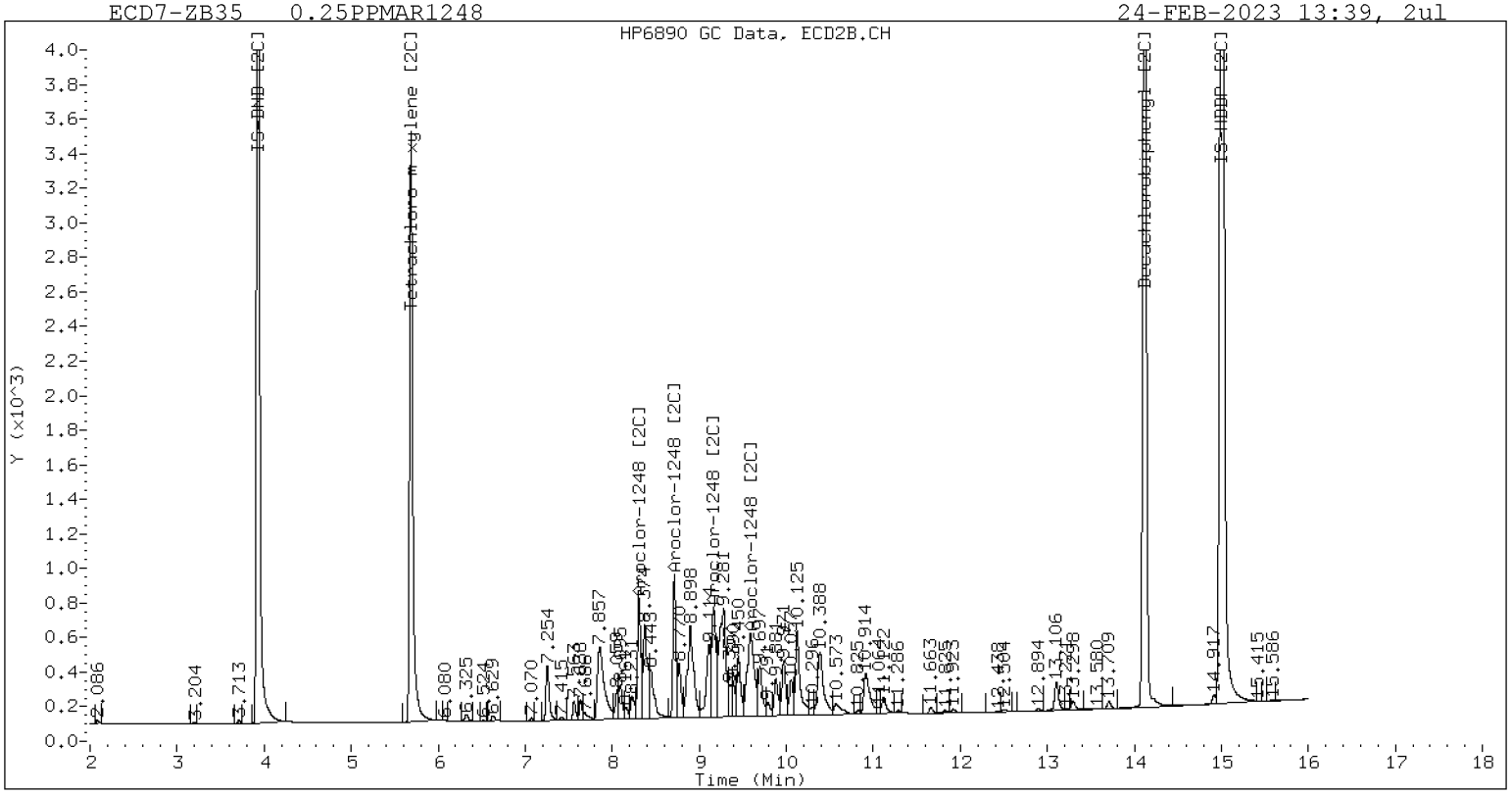
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1248 24-FEB-2023 13:39, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR1248 24-FEB-2023 13:39, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242310ECD7.D
Data file 2: /230224.b/230224.b/02242310ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR1254
Client ID:
Injection Date: 24-FEB-2023 14:00
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.808	0.002	352587	5.687	0.002	177502	37.3	38.6	3.4	Tetrachloro-m-xylene
13.895	0.002	532500	14.119	0.000	325903	37.0	40.2	8.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	633407	-6.0
Hexabromobiphenyl	1429847	1460265	2.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	313673	-0.5
Hexabromobiphenyl	513946	532442	3.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.299	0.000	159011	250.0	1	9.449	0.000	59603	250.0
Aroclor-1254	2	9.377	0.000	71516	250.0	2	9.970	0.000	47949	250.0
Aroclor-1254	3	9.668	0.000	102230	250.0	3	10.124	0.000	103745	250.0
Aroclor-1254	4	9.807	0.000	198777	250.0	4	10.373	0.000	101135	250.0
Aroclor-1254	5	10.176	0.000	124586	250.0	5	10.569	0.000	61577	250.0

Total Col1Ave (5 peaks): 250.0 Total Col2Ave (5 peaks): 250.0 RPD = 0

Corrected Ave (4 peaks): 250.0 Corrected Ave (4 peaks): 250.0 RPD = 0

Total PCB Area Col1 (5.906 - 13.793) = 2179224 Col1 Total PCB = 0.3 ppm*

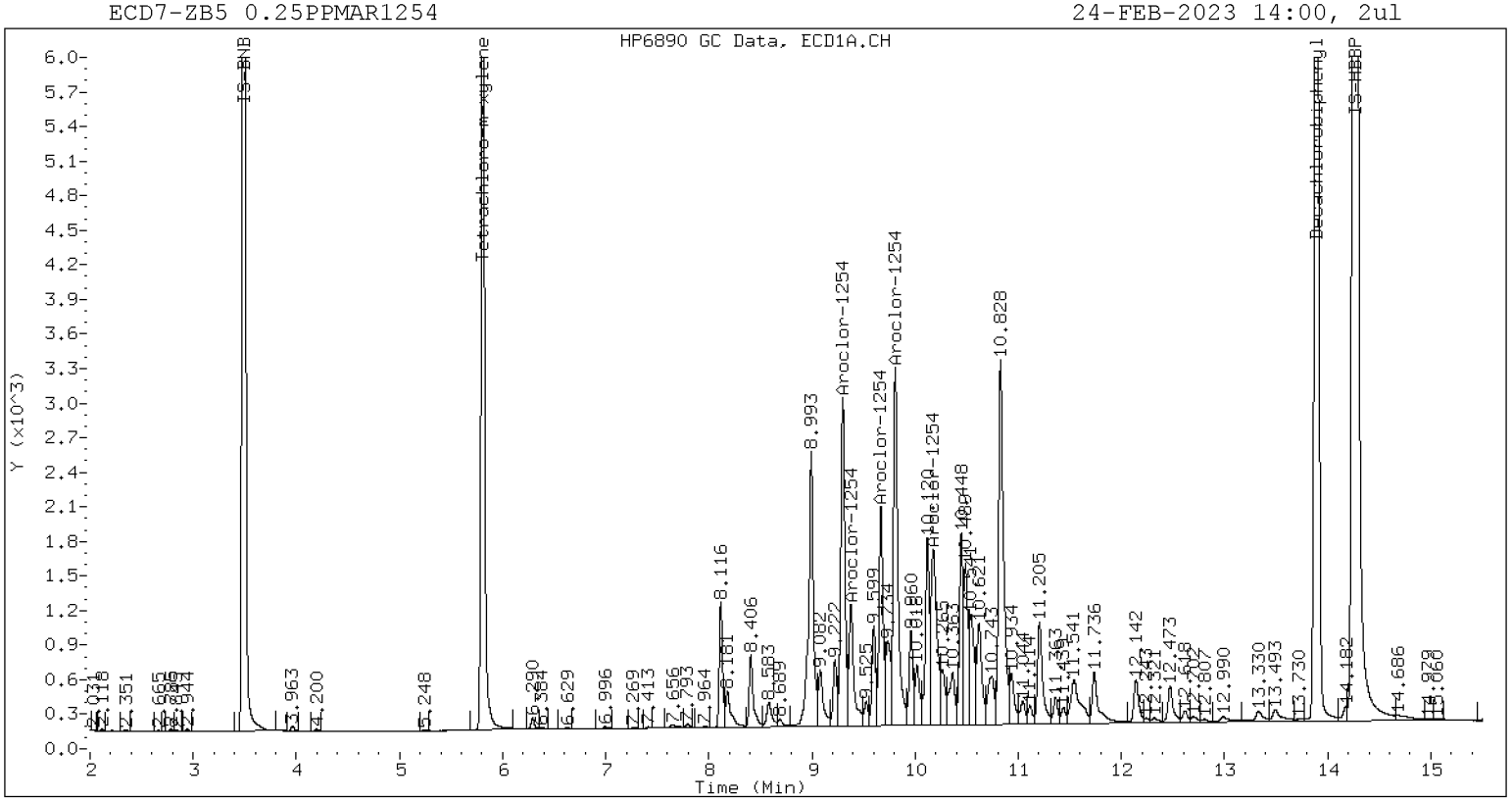
Total PCB Area Col2 (5.785 - 14.019) = 1022156 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

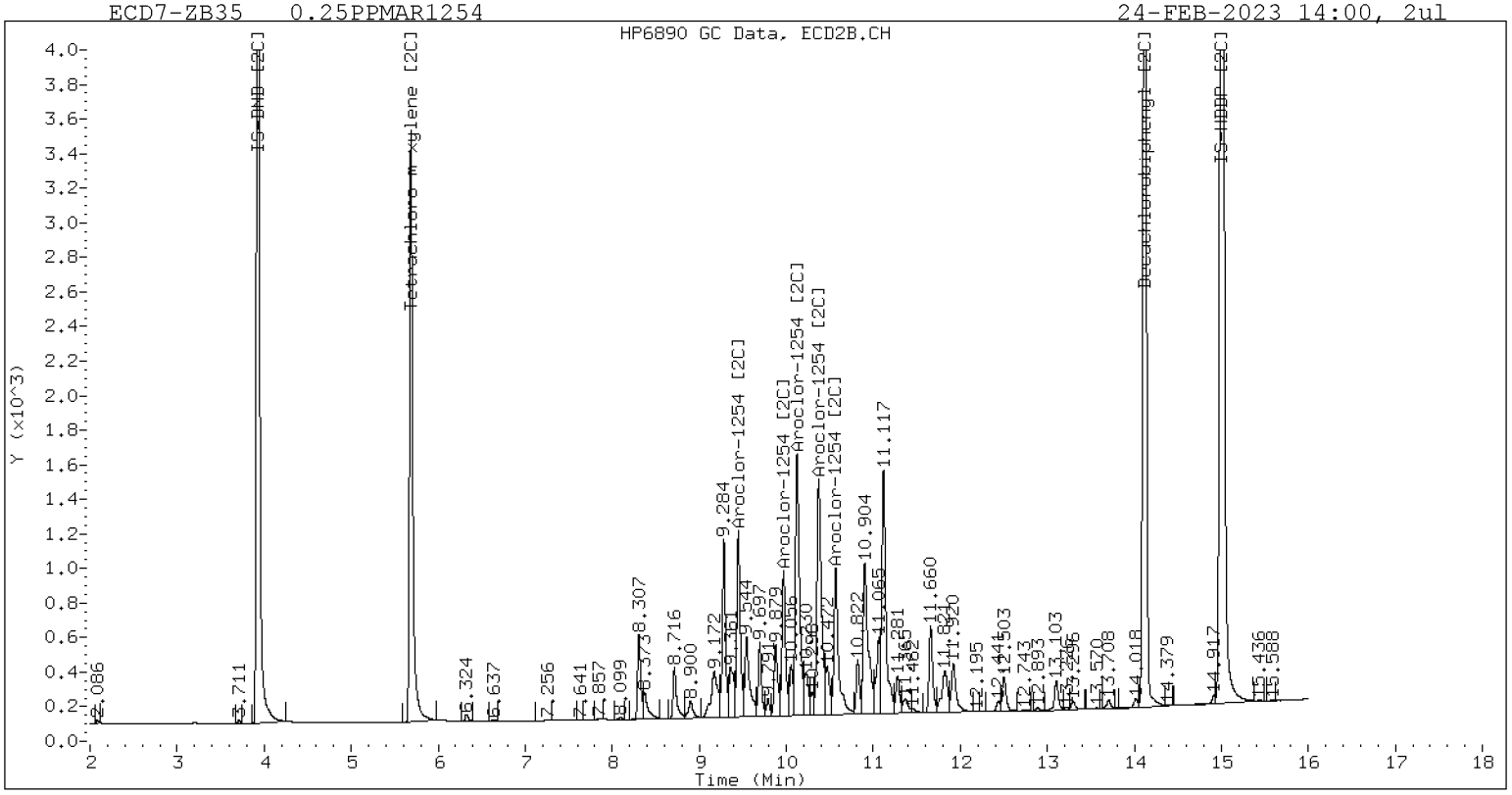
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1254 24-FEB-2023 14:00, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR1254 24-FEB-2023 14:00, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242311ECD7.D
Data file 2: /230224.b/230224.b/02242311ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR2162.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR2162
Client ID:
Injection Date: 24-FEB-2023 14:21
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.807	0.001	362236	5.686	0.000	177349	38.4	39.2	2.1	Tetrachloro-m-xylene
13.894	0.001	523254	14.119	-0.000	321034	36.0	39.2	8.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	632433	-6.1
Hexabromobiphenyl	1429847	1474039	3.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	308453	-2.2
Hexabromobiphenyl	513946	538177	4.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1221	1	4.731	0.000	14160	250.0	1	4.956	0.000	7300	250.0
Aroclor-1221	2	6.132	0.000	25324	250.0	2	6.296	0.000	13816	250.0
Aroclor-1221	3	6.382	0.000	58795	250.0	3	6.622	0.000	22491	250.0
Total Col1Ave (3 peaks):					250.0	Total Col2Ave (3 peaks):				250.0 RPD = 0
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1262	1	10.829	0.000	113046	250.0	1	11.200	0.000	114880	250.0
Aroclor-1262	2	12.244	0.000	183948	250.0	2	11.652	0.000	97844	250.0
Aroclor-1262	3	12.319	0.000	197749	250.0	3	12.434	0.000	111015	250.0
Aroclor-1262	4	12.987	0.000	180727	250.0	4	12.502	0.000	173913	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.906 - 13.793) = 3105316 Col1 Total PCB = 0.4 ppm*

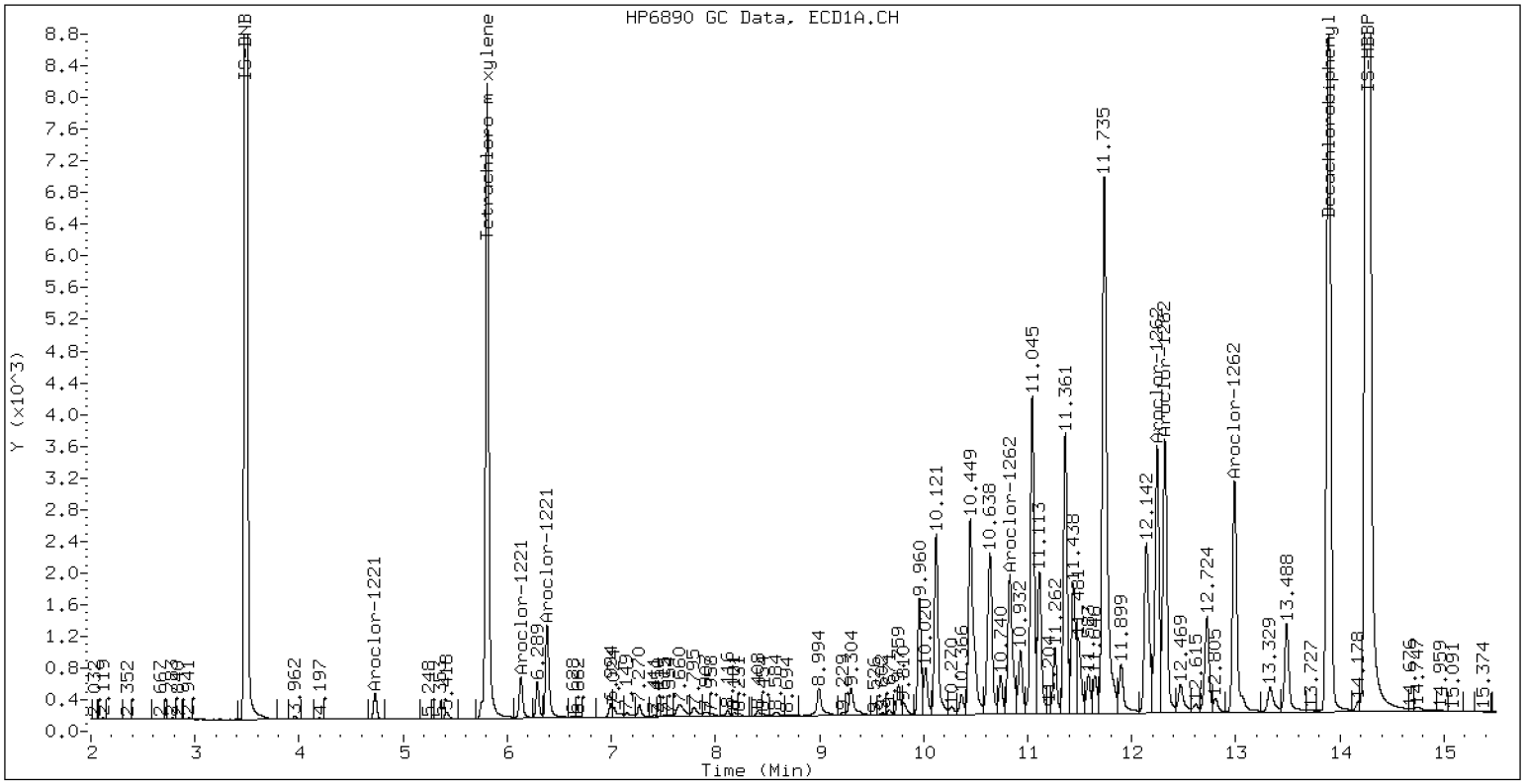
Total PCB Area Col2 (5.785 - 14.019) = 1573107 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

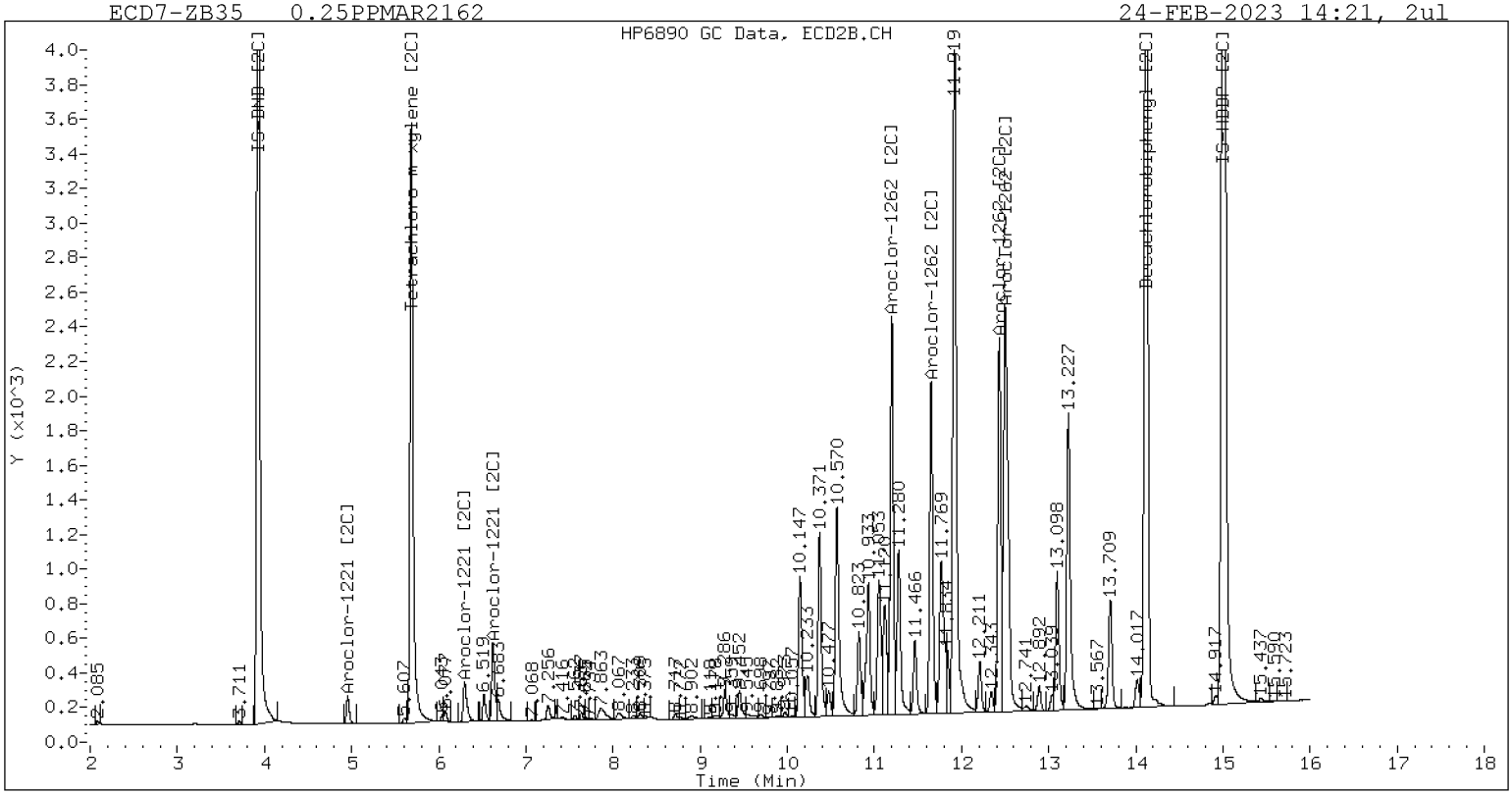
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR2162 24-FEB-2023 14:21, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR2162 24-FEB-2023 14:21, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242312ECD7.D
Data file 2: /230224.b/230224.b/02242312ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR3268.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR3268
Client ID:
Injection Date: 24-FEB-2023 14:42
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.806	0.000	366416	5.685	0.000	179450	38.0	38.9	2.4	Tetrachloro-m-xylene
13.893	0.000	778191	14.119	0.000	477889	53.0	57.5	8.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	645602	-4.2
Hexabromobiphenyl	1429847	1492154	4.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	314042	-0.4
Hexabromobiphenyl	513946	545458	6.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1232	1	4.730	0.000	8647	250.0	1	4.956	0.000	4017	250.0
Aroclor-1232	2	6.131	0.000	17148	250.0	2	7.254	0.000	19962	250.0
Aroclor-1232	3	7.656	0.000	77627	250.0	3	7.861	0.000	39913	250.0
Aroclor-1232	4	8.581	0.000	32993	250.0	4	8.715	0.000	11487	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0
Aroclor-1268	1	12.247	0.000	477974	250.0	1	12.432	0.000	274595	250.0
Aroclor-1268	2	12.317	0.000	473326	250.0	2	12.500	0.000	295194	250.0
Aroclor-1268	3	12.699	0.000	405011	250.0	3	12.892	0.000	252048	250.0
Aroclor-1268	4	13.490	0.000	1333528	250.0	4	13.709	0.000	805579	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.906 - 13.793) = 3998414 Col1 Total PCB = 0.5 ppm*

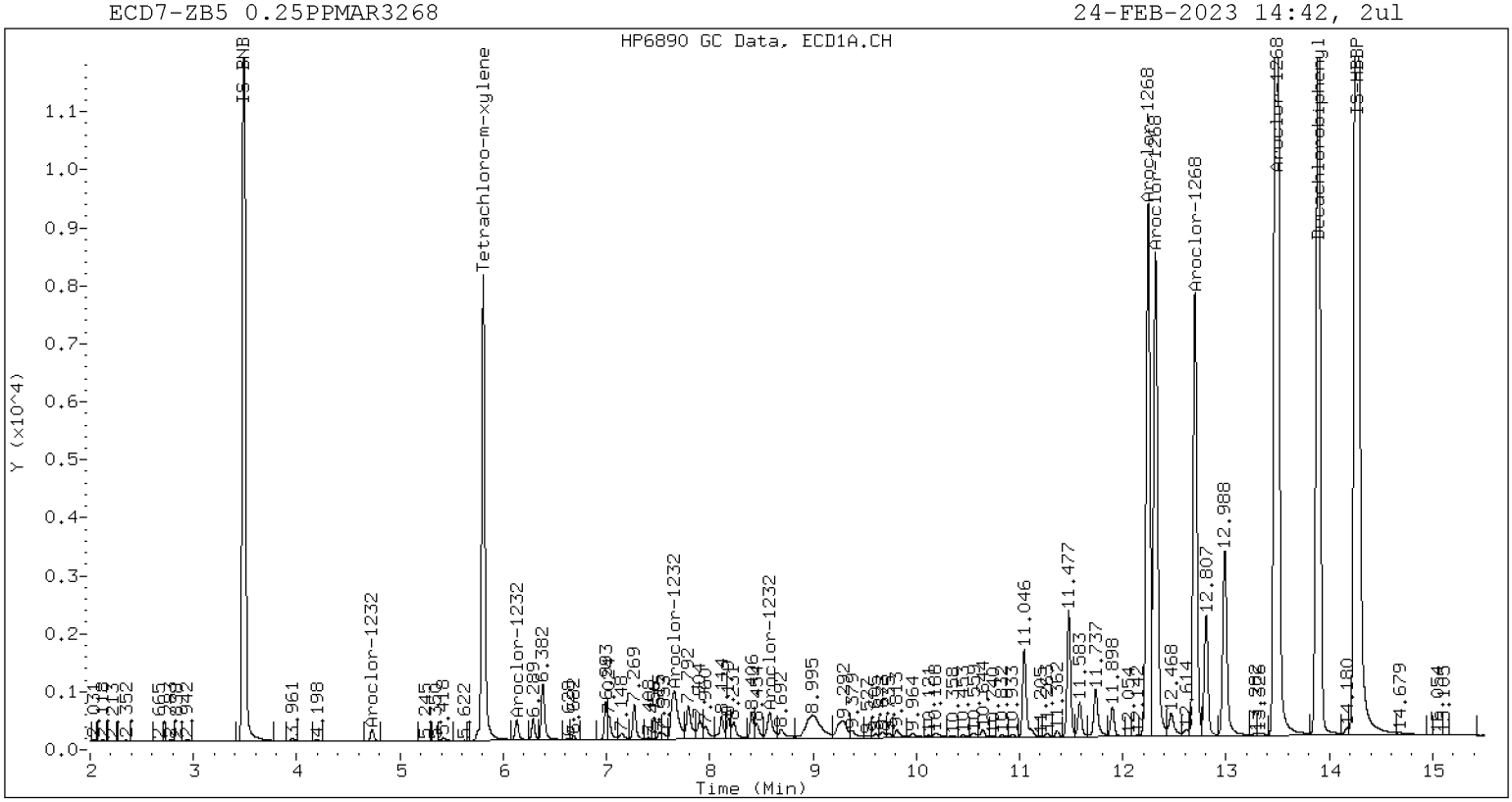
Total PCB Area Col2 (5.785 - 14.019) = 2300029 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

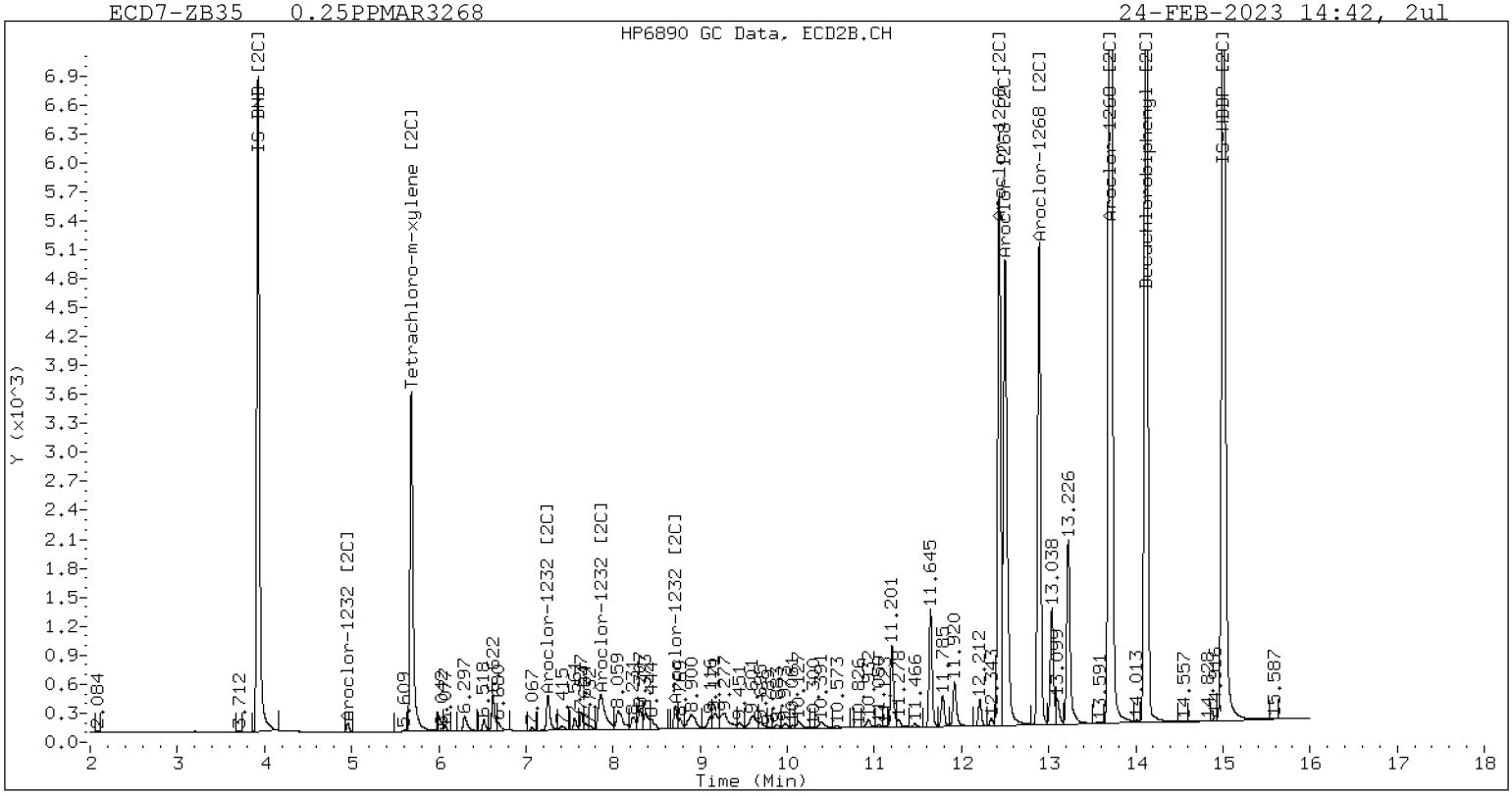
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR3268 24-FEB-2023 14:42, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR3268 24-FEB-2023 14:42, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242313ECD7.D
Data file 2: /230224.b/230224.b/02242313ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660SCV
Client ID:
Injection Date: 24-FEB-2023 15:03
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.807	0.001	337070	5.686	0.001	165848	34.9	35.8	2.3	Tetrachloro-m-xylene
13.895	0.002	515407	14.119	-0.000	316730	34.3	37.3	8.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	645975	-4.1
Hexabromobiphenyl	1429847	1524245	6.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	316115	0.3
Hexabromobiphenyl	513946	556950	8.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.269	-0.002	59491	242.5	1	7.254	-0.002	44576	240.9
Aroclor-1016	2	7.655	0.001	181090	242.1	2	7.857	0.002	95386	254.2
Aroclor-1016	3	7.790	0.000	88470	242.3	3	8.056	0.002	42160	248.8
Aroclor-1016	4	8.404	-0.001	57980	245.6	4	8.307	0.000	32197	242.1
Total Col1Ave (4 peaks):					243.1	Total Col2Ave (4 peaks):				246.5 RPD = 1
Corrected Ave (3 peaks):					242.3	Corrected Ave (3 peaks):				243.9 RPD = 1
Aroclor-1221	1	4.731	0.000	464	8.0	1	---			0.0
Aroclor-1221	2	6.130	-0.002	9233	89.2	2	6.300	0.004	5379	95.0
Aroclor-1221	3	6.382	-0.001	42570	177.2	3	6.623	0.001	20952	227.2
Total Col1Ave (3 peaks):					91.5	Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	4.731	0.001	464	13.4	1	---			0.0
Aroclor-1232	2	6.130	-0.001	9233	134.5	2	7.254	-0.000	44576	554.6
Aroclor-1232	3	7.655	-0.001	181090	582.9	3	7.857	-0.003	95386	593.5
Aroclor-1232	4	8.580	-0.001	79916	605.2	4	8.713	-0.002	29795	644.2
Total Col1Ave (4 peaks):					334.0	Total Col2Ave (3 peaks):				597.4 RPD = 57*
Corrected Ave (3 peaks):					243.6	Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.269	-0.002	59491	297.2	1	7.254	-0.002	44576	303.5
Aroclor-1242	2	7.655	-0.001	181090	297.9	2	7.857	-0.000	95386	309.0
Aroclor-1242	3	8.404	-0.001	57980	306.5	3	9.115	-0.052	18754	195.2
Aroclor-1242	4	8.580	0.000	79916	285.8	4	9.697	0.100	1355	11.6
Total Col1Ave (4 peaks):					296.8	Total Col2Ave (4 peaks):				204.8 RPD = 37
Corrected Ave (3 peaks):					293.6	Corrected Ave (3 peaks):				170.1 RPD = 53*
Aroclor-1248	1	8.404	-0.001	57980	184.0	1	8.307	-0.001	32197	213.3
Aroclor-1248	2	8.580	-0.001	79916	199.5	2	8.713	-0.001	29795	190.9
Aroclor-1248	3	8.993	-0.006	71805	95.0	3	9.115	-0.050	18754	104.4
Aroclor-1248	4	9.300	0.006	47348	123.1	4	---			0.0
Total Col1Ave (4 peaks):					150.4	Total Col2Ave (3 peaks):				169.6 RPD = 12
Corrected Ave (3 peaks):					134.0	Corrected Ave: < 3 Peaks				
Aroclor-1254	1	9.300	0.002	47348	73.0	1	9.451	0.001	22438	93.4
Aroclor-1254	2	---			0.0	2	9.972	0.001	2694	13.9
Aroclor-1254	3	9.670	0.002	5461	13.1	3	10.147	0.024	52914	126.5
Aroclor-1254	4	9.807	-0.000	18944	23.4	4	10.370	-0.003	70430	172.8
Aroclor-1254	5	10.121	-0.056	154170	303.3	5	10.568	-0.000	98525	396.9
Total Col1Ave (4 peaks):					103.2	Total Col2Ave (5 peaks):				160.7 RPD = 44*
Corrected Ave (3 peaks):					36.5	Corrected Ave (4 peaks):				101.7 RPD = 94*
Aroclor-1260	1	11.044	0.000	149195	272.1	1	11.653	0.000	82210	251.0
Aroclor-1260	2	11.361	-0.000	153832	268.5	2	11.919	0.001	222226	265.9
Aroclor-1260	3	11.736	0.002	396660	261.0	3	12.435	-0.000	59148	266.7
Aroclor-1260	4	12.140	0.001	190448	248.9	4	12.504	0.002	147180	261.2
Aroclor-1260	5	12.244	-0.000	91385	277.5	NS	---			----
Total Col1Ave (5 peaks):					265.6	Total Col2Ave (4 peaks):				261.2 RPD = 2
Corrected Ave (4 peaks):					262.6	Corrected Ave (3 peaks):				259.4 RPD = 1
Aroclor-1262	1	10.827	-0.002	220238	471.0	1	11.199	-0.001	84479	177.6
Aroclor-1262	2	12.244	0.000	91385	120.1	2	11.653	0.002	82210	203.0
Aroclor-1262	3	12.320	0.001	113066	138.2	3	12.435	0.002	59148	128.7
Aroclor-1262	4	12.988	0.001	102156	136.7	4	12.504	0.002	147180	204.4
Total Col1Ave (4 peaks):					216.5	Total Col2Ave (4 peaks):				178.4 RPD = 19
Corrected Ave (3 peaks):					131.7	Corrected Ave (3 peaks):				169.8 RPD = 25
Aroclor-1268	1	12.244	-0.003	91385	46.8	1	12.435	0.003	59148	52.7
Aroclor-1268	2	12.320	0.003	113066	58.5	2	12.504	0.004	147180	122.1
Aroclor-1268	3	12.726	0.027	46633	28.2	3	12.893	0.001	2874	2.8
Aroclor-1268	4	13.489	-0.000	25567	4.7	4	13.709	-0.000	13041	4.0
Total Col1Ave (4 peaks):					34.5	Total Col2Ave (4 peaks):				45.4 RPD = 27
Corrected Ave (3 peaks):					26.6	Corrected Ave (3 peaks):				19.8 RPD = 29

Total PCB Area Col1 (5.906 - 13.793) = 3743076 Col1 Total PCB = 0.5 ppm*

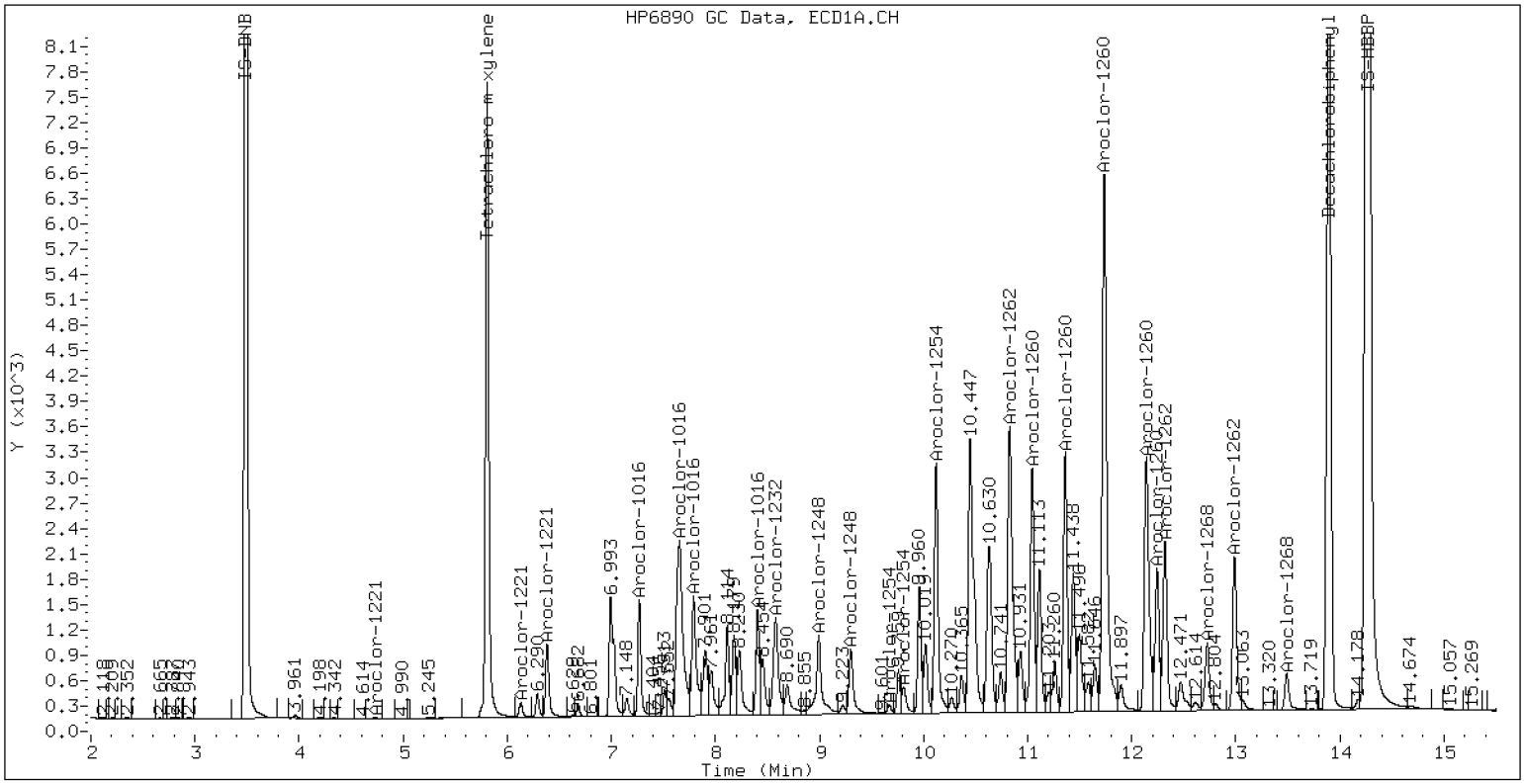
Total PCB Area Col2 (5.785 - 14.019) = 1897008 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

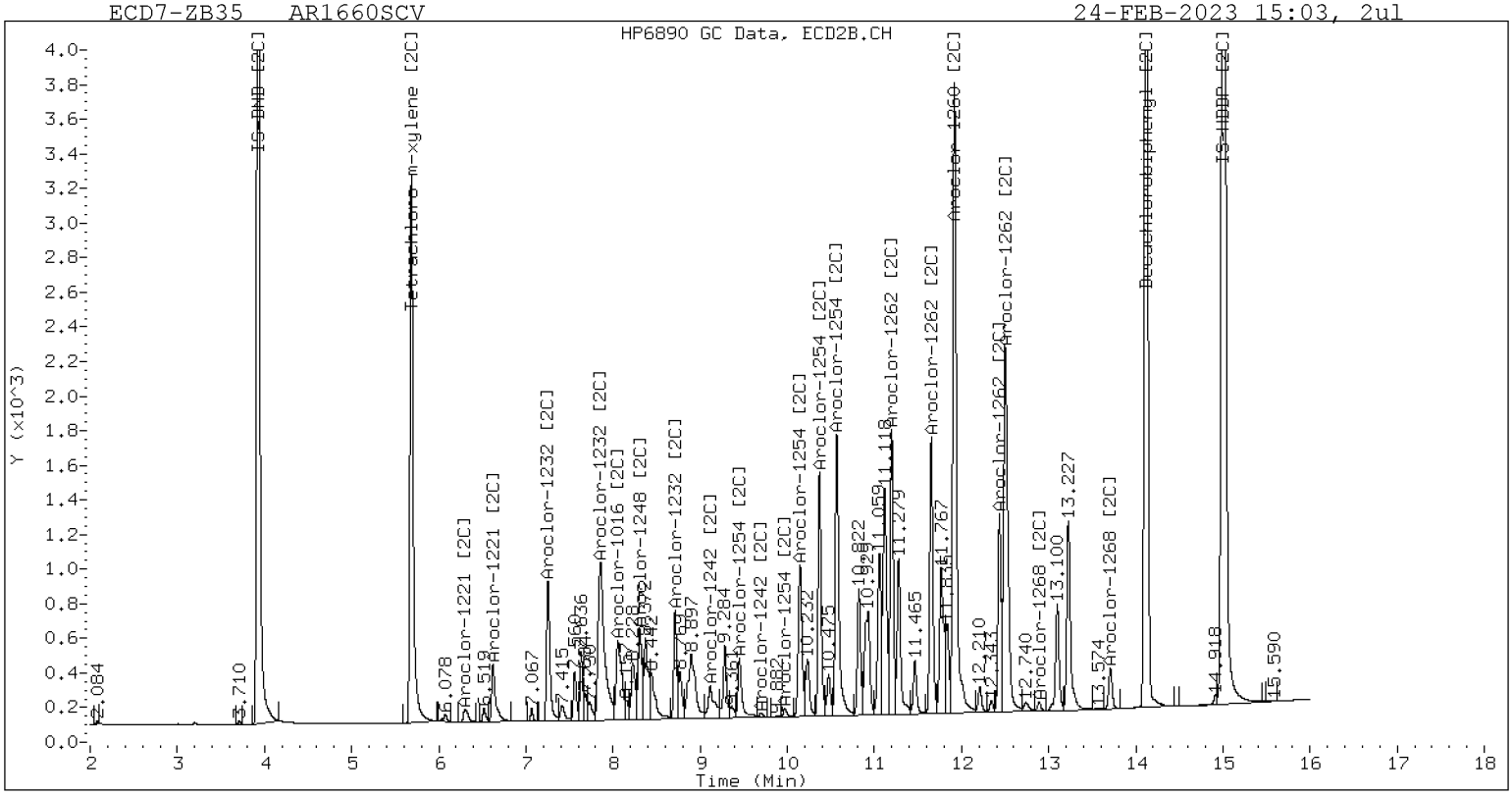
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660SCV 24-FEB-2023 15:03, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660SCV 24-FEB-2023 15:03, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242314ECD7.D
Data file 2: /230224.b/230224.b/02242314ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242SCV
Client ID:
Injection Date: 24-FEB-2023 15:24
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.808	0.002	354283	5.686	0.001	172455	33.6	34.5	2.6	Tetrachloro-m-xylene
13.895	0.002	567088	14.120	0.001	347430	37.0	40.3	8.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	705650	4.7
Hexabromobiphenyl	1429847	1555683	8.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	340433	8.0
Hexabromobiphenyl	513946	565609	10.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.270	-0.000	39927	149.0	1	7.256	0.000	32417	162.7
Aroclor-1016	2	7.653	-0.001	132339	162.0	2	7.856	0.001	69235	171.3
Aroclor-1016	3	7.791	0.001	59310	148.7	3	8.055	0.000	29473	161.5
Aroclor-1016	4	8.405	0.000	42537	165.0	4	8.307	-0.000	22792	159.2
Total Col1Ave (4 peaks): 156.2						Total Col2Ave (4 peaks): 163.7			RPD = 5	
Corrected Ave (3 peaks): 153.2						Corrected Ave (3 peaks): 161.1			RPD = 5	
Aroclor-1221	1	4.733	0.002	319	5.0	1	---			0.0
Aroclor-1221	2	6.131	-0.001	6534	57.8	2	6.319	0.022	4365	71.6
Aroclor-1221	3	6.384	0.001	29664	113.0	3	6.624	0.002	14916	150.2
Total Col1Ave (3 peaks): 58.6						Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	4.733	0.003	319	8.4	1	---			0.0
Aroclor-1232	2	6.131	0.000	6534	87.2	2	7.256	0.002	32417	374.5
Aroclor-1232	3	7.653	-0.003	132339	389.9	3	7.856	-0.004	69235	400.0
Aroclor-1232	4	8.579	-0.002	69445	481.4	4	8.714	-0.001	22167	445.0
Total Col1Ave (4 peaks): 241.7						Total Col2Ave (3 peaks): 406.5			RPD = 51*	
Corrected Ave (3 peaks): 161.8						Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.270	-0.001	39927	182.6	1	7.256	0.000	32417	205.0
Aroclor-1242	2	7.653	-0.003	132339	199.3	2	7.856	-0.002	69235	208.2
Aroclor-1242	3	8.405	-0.000	42537	205.9	3	9.164	-0.004	23068	223.0
Aroclor-1242	4	8.579	-0.000	69445	227.4	4	9.587	-0.010	31021	246.1
Total Col1Ave (4 peaks): 203.8						Total Col2Ave (4 peaks): 220.6			RPD = 8	
Corrected Ave (3 peaks): 195.9						Corrected Ave (3 peaks): 212.1			RPD = 8	
Aroclor-1248	1	8.405	0.000	42537	123.5	1	8.307	-0.001	22792	140.2
Aroclor-1248	2	8.579	-0.001	69445	158.7	2	8.714	-0.000	22167	131.9
Aroclor-1248	3	9.001	0.003	91942	111.4	3	9.164	-0.002	23068	119.3
Aroclor-1248	4	9.294	-0.000	38711	92.1	4	9.587	-0.003	31021	133.6
Total Col1Ave (4 peaks): 121.4						Total Col2Ave (4 peaks): 131.2			RPD = 8	
Corrected Ave (3 peaks): 109.0						Corrected Ave (3 peaks): 128.3			RPD = 16	
Aroclor-1254	1	9.294	-0.005	38711	54.6	1	9.450	0.001	13131	50.7
Aroclor-1254	2	9.377	-0.000	17371	54.5	2	9.970	0.000	8340	40.1
Aroclor-1254	3	9.668	-0.000	16373	35.9	3	10.123	-0.000	16364	36.3
Aroclor-1254	4	9.807	-0.001	27490	31.0	4	10.382	0.009	16062	36.6
Aroclor-1254	5	10.175	-0.001	20494	36.9	5	10.572	0.004	4818	18.0
Total Col1Ave (5 peaks): 42.6						Total Col2Ave (5 peaks): 36.4			RPD = 16	
Corrected Ave (4 peaks): 39.6						Corrected Ave (4 peaks): 32.8			RPD = 19	
Aroclor-1260	1	11.048	0.003	794	1.4	1	11.665	0.012	1652	5.0
Aroclor-1260	2	11.366	0.005	814	1.4	2	11.926	0.008	842	1.0
Aroclor-1260	3	11.739	0.006	1848	1.2	3	12.438	0.002	483	2.1
Aroclor-1260	4	12.145	0.006	1372	1.8	4	12.506	0.004	790	1.4
Aroclor-1260	5	---			0.0	NS	---			----
Total Col1Ave (4 peaks): 1.4						Total Col2Ave (4 peaks): 2.4			RPD = 49*	
Corrected Ave (3 peaks): 1.3						Corrected Ave (3 peaks): 1.5			RPD = 12	
Aroclor-1262	1	10.832	0.003	13157	27.6	1	11.121	-0.079	6113	12.7
Aroclor-1262	2	12.145	-0.098	1372	1.8	2	11.665	0.013	1652	4.0
Aroclor-1262	3	---			0.0	3	12.438	0.004	483	1.0
Aroclor-1262	4	13.038	0.051	842	1.1	4	12.506	0.004	790	1.1
Total Col1Ave (3 peaks): 10.1						Total Col2Ave (4 peaks): 4.7			RPD = 73*	
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks): 2.0				
Aroclor-1268	1	---			0.0	1	12.438	0.006	483	0.4
Aroclor-1268	2	---			0.0	2	12.506	0.006	790	0.6
Aroclor-1268	3	12.617	-0.082	5851	3.5	3	12.899	0.007	491	0.5
Aroclor-1268	4	13.500	0.010	1745	0.3	4	13.714	0.005	379	0.1
Col1Ave: <3 Quant Peaks						Col2Ave: 0.4				

Total PCB Area Col1 (5.906 - 13.793) = 1149784 Col1 Total PCB = 0.1 ppm*

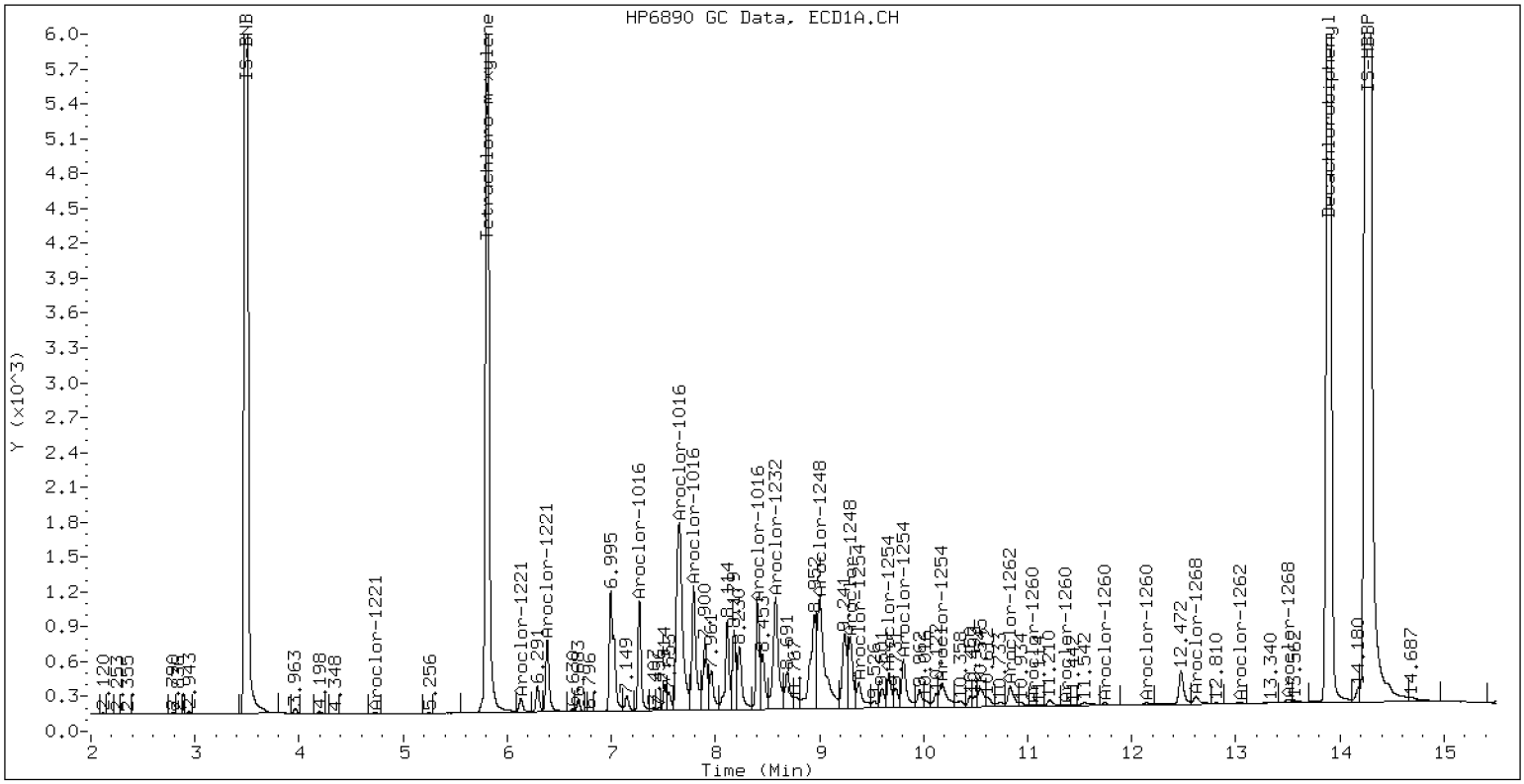
Total PCB Area Col2 (5.785 - 14.019) = 572210 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

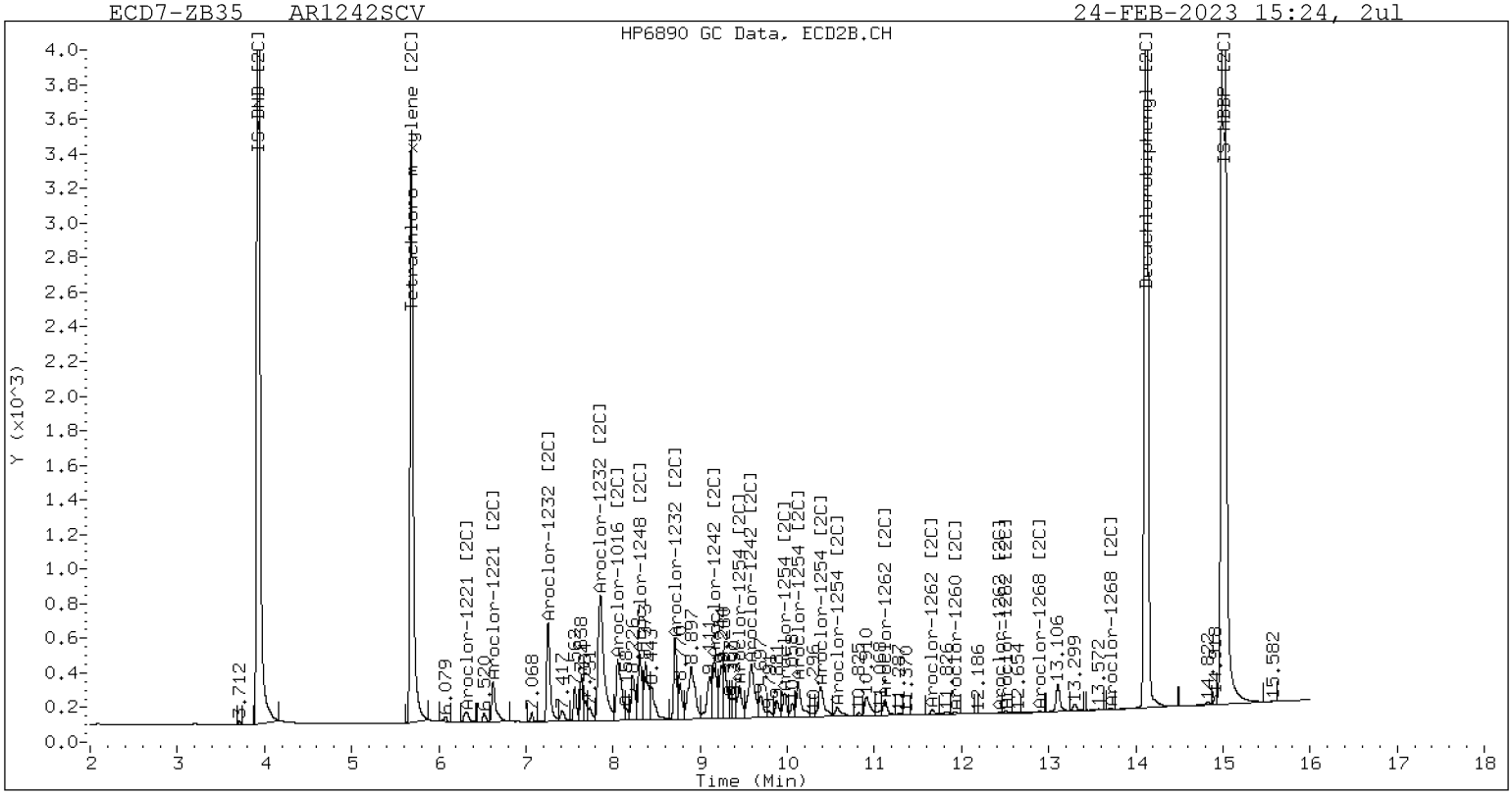
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242SCV 24-FEB-2023 15:24, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242SCV 24-FEB-2023 15:24, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242315ECD7.D
Data file 2: /230224.b/230224.b/02242315ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248SCV
Client ID:
Injection Date: 24-FEB-2023 15:45
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.002	336655	5.687	0.002	168719	34.9	36.4	4.2	Tetrachloro-m-xylene
13.894	0.001	499162	14.118	-0.001	308317	33.1	36.3	9.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	646554	-4.0
Hexabromobiphenyl	1429847	1529451	7.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	316066	0.3
Hexabromobiphenyl	513946	557213	8.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.271	0.000	19773	80.5	1	7.254	-0.002	16926	91.5
Aroclor-1016	2	7.653	-0.001	88099	117.7	2	7.857	0.001	45733	121.9
Aroclor-1016	3	7.794	0.003	35915	98.3	3	8.060	0.005	8078	47.7
Aroclor-1016	4	8.406	0.001	77842	329.5	4	8.307	0.000	37348	280.9
Total Col1Ave (4 peaks):					156.5	Total Col2Ave (4 peaks):				135.5 RPD = 14
Corrected Ave (3 peaks):					98.8	Corrected Ave (3 peaks):				87.0 RPD = 13
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	6.133	0.001	680	6.6	2	6.326	0.030	1966	34.7
Aroclor-1221	3	6.384	0.002	3390	14.1	3	6.631	0.009	1571	17.0
Col1Ave: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	6.133	0.002	680	9.9	2	7.254	-0.000	16926	210.6
Aroclor-1232	3	7.653	-0.002	88099	283.3	3	7.857	-0.004	45733	284.6
Aroclor-1232	4	8.581	-0.000	99572	753.4	4	8.714	-0.001	38224	826.6
Total Col1Ave (3 peaks):					348.9	Total Col2Ave (3 peaks):				440.6 RPD = 23
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.271	-0.000	19773	98.7	1	7.254	-0.002	16926	115.3
Aroclor-1242	2	7.653	-0.003	88099	144.8	2	7.857	-0.001	45733	148.2
Aroclor-1242	3	8.406	0.000	77842	411.2	3	9.165	-0.002	45021	468.7
Aroclor-1242	4	8.581	0.001	99572	355.8	4	9.590	-0.008	53613	458.1
Total Col1Ave (4 peaks):					252.6	Total Col2Ave (4 peaks):				297.6 RPD = 16
Corrected Ave (3 peaks):					199.8	Corrected Ave (3 peaks):				240.5 RPD = 19
Aroclor-1248	1	8.406	0.000	77842	246.8	1	8.307	-0.001	37348	247.5
Aroclor-1248	2	8.581	0.000	99572	248.3	2	8.714	-0.000	38224	245.0
Aroclor-1248	3	8.998	-0.000	186857	247.0	3	9.165	-0.000	45021	250.7
Aroclor-1248	4	9.294	-0.000	98398	255.5	4	9.590	-0.001	53613	248.7
Total Col1Ave (4 peaks):					249.4	Total Col2Ave (4 peaks):				248.0 RPD = 1
Corrected Ave (3 peaks):					247.4	Corrected Ave (3 peaks):				247.0 RPD = 0
Aroclor-1254	1	9.294	-0.004	98398	151.6	1	9.450	0.001	21823	90.8
Aroclor-1254	2	9.377	-0.001	49616	169.9	2	9.971	0.001	19450	100.6
Aroclor-1254	3	9.669	0.001	40230	96.4	3	10.124	0.000	36574	87.5
Aroclor-1254	4	9.808	0.001	68500	84.4	4	10.389	0.016	35100	86.1
Aroclor-1254	5	10.183	0.007	47365	93.1	5	10.573	0.004	5676	22.9
Total Col1Ave (5 peaks):					119.1	Total Col2Ave (5 peaks):				77.6 RPD = 42*
Corrected Ave (4 peaks):					106.4	Corrected Ave (4 peaks):				71.8 RPD = 39
Aroclor-1260	1	11.047	0.003	1670	3.0	1	11.662	0.009	2055	6.3
Aroclor-1260	2	11.362	0.001	1111	1.9	2	11.924	0.007	1466	1.8
Aroclor-1260	3	11.739	0.005	2107	1.4	3	12.434	-0.002	573	2.6
Aroclor-1260	4	12.144	0.005	1379	1.8	4	12.505	0.003	1003	1.8
Aroclor-1260	5	12.251	0.006	698	2.1	NS	---			----
Total Col1Ave (5 peaks):					2.1	Total Col2Ave (4 peaks):				3.1 RPD = 41*
Corrected Ave (4 peaks):					1.8	Corrected Ave (3 peaks):				2.0 RPD = 12
Aroclor-1262	1	10.833	0.005	15355	32.7	1	11.122	-0.079	7225	15.2
Aroclor-1262	2	12.251	0.007	698	0.9	2	11.662	0.011	2055	5.1
Aroclor-1262	3	12.321	0.002	836	1.0	3	12.434	0.000	573	1.2
Aroclor-1262	4	12.991	0.004	1043	1.4	4	12.505	0.003	1003	1.4
Total Col1Ave (4 peaks):					9.0	Total Col2Ave (4 peaks):				5.7 RPD = 45*
Corrected Ave (3 peaks):					1.1	Corrected Ave (3 peaks):				2.6 RPD = 80*
Aroclor-1268	1	12.251	0.004	698	0.4	1	12.434	0.002	573	0.5
Aroclor-1268	2	12.321	0.004	836	0.4	2	12.505	0.005	1003	0.8
Aroclor-1268	3	12.700	0.001	2449	1.5	3	12.892	0.001	721	0.7
Aroclor-1268	4	13.493	0.003	7547	1.4	4	13.708	-0.001	2265	0.7
Total Col1Ave (4 peaks):					0.9	Total Col2Ave (4 peaks):				0.7 RPD = 29
Corrected Ave (3 peaks):					0.7	Corrected Ave (3 peaks):				0.6 RPD = 13

Total PCB Area Col1 (5.906 - 13.793) = 1574335 Col1 Total PCB = 0.2 ppm*

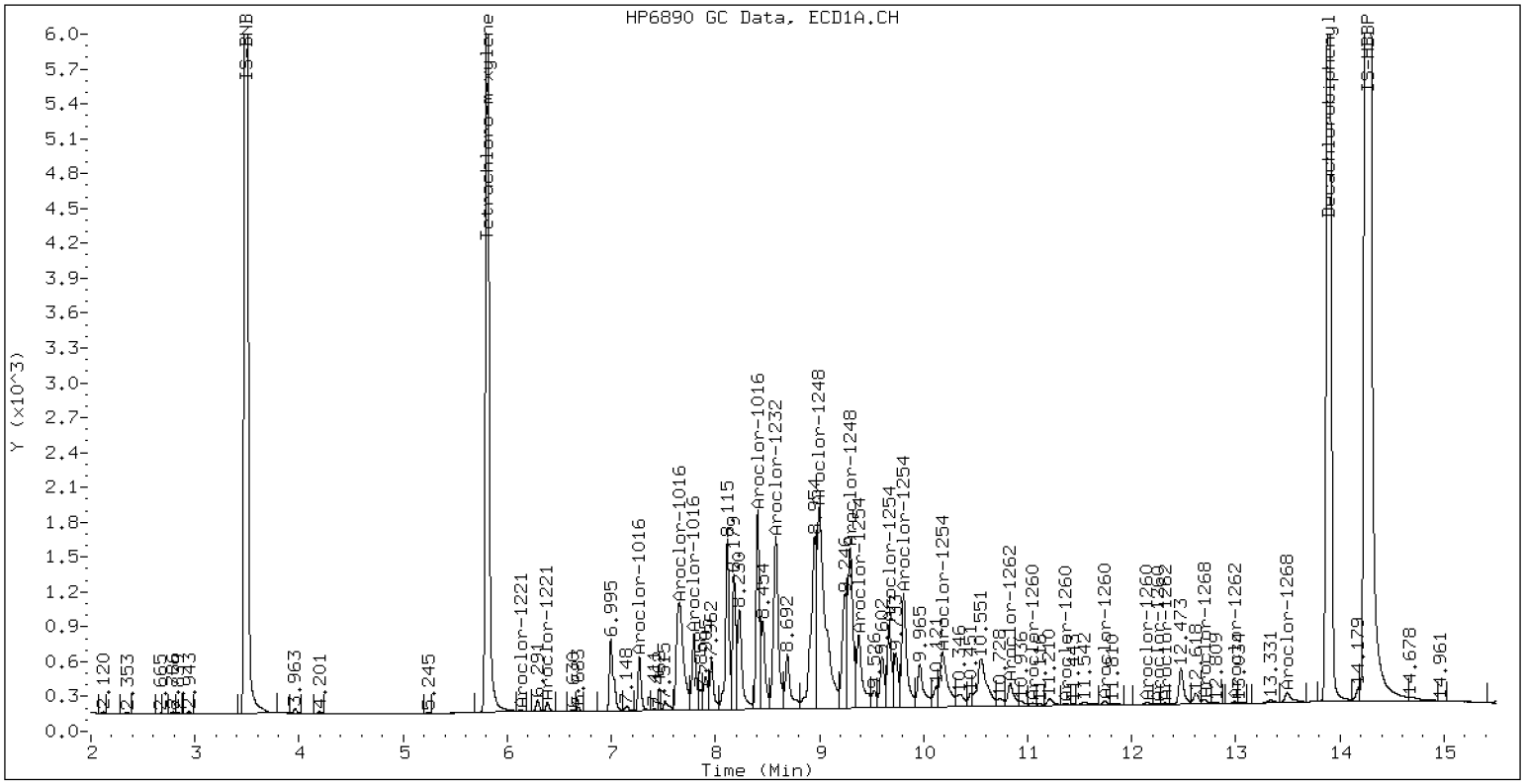
Total PCB Area Col2 (5.785 - 14.019) = 746330 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

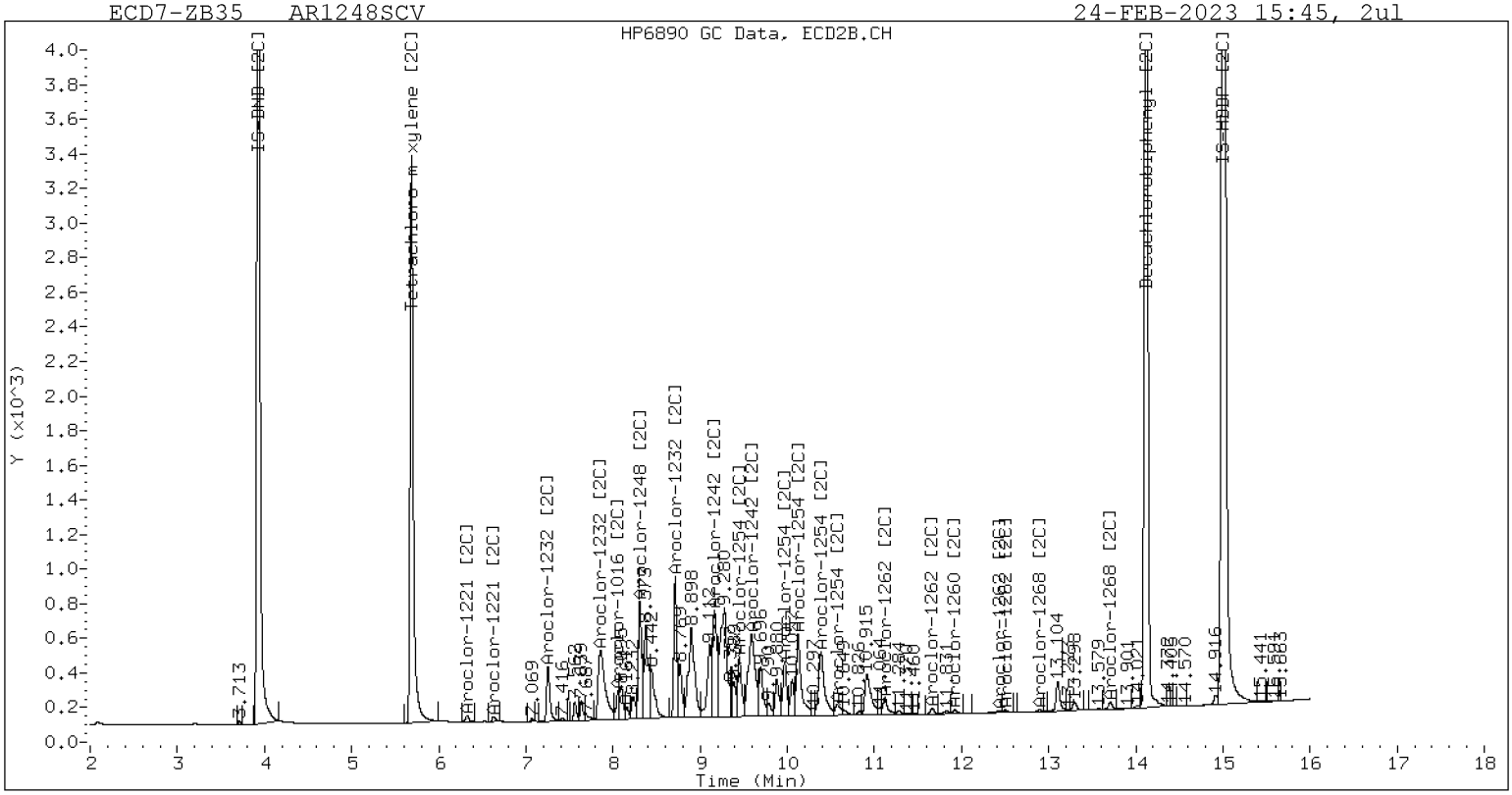
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248SCV 24-FEB-2023 15:45, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248SCV 24-FEB-2023 15:45, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242316ECD7.D
Data file 2: /230224.b/230224.b/02242316ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254SCV
Client ID:
Injection Date: 24-FEB-2023 16:06
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.806	-0.000	354312	5.686	0.001	174604	36.1	37.1	2.6	Tetrachloro-m-xylene
13.895	0.002	540961	14.119	-0.000	329134	34.6	37.9	9.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	656887	-2.5
Hexabromobiphenyl	1429847	1585505	10.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	320936	1.8
Hexabromobiphenyl	513946	570006	10.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.270	0.000	565	2.3	1	7.255	-0.001	387	2.1
Aroclor-1016	2	7.656	0.002	1875	2.5	2	7.854	-0.002	860	2.3
Aroclor-1016	3	7.792	0.002	1106	3.0	3	8.098	0.043	578	3.4
Aroclor-1016	4	8.405	0.000	29924	124.7	4	8.307	0.000	21985	162.9
	Total Col1Ave (4 peaks):				33.1	Total Col2Ave (4 peaks):				42.6 RPD = 25
	Corrected Ave (3 peaks):				2.6	Corrected Ave (3 peaks):				2.6 RPD = 0
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	6.325	0.028	1947	33.9
Aroclor-1221	3	---			0.0	3	6.637	0.015	368	3.9
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	7.255	0.001	387	4.7
Aroclor-1232	3	7.656	0.000	1875	5.9	3	7.854	-0.007	860	5.3
Aroclor-1232	4	8.583	0.002	12327	91.8	4	8.715	0.000	15013	319.7
	Col1Ave: <3 Quant Peaks					Col2Ave: 109.9				
Aroclor-1242	1	7.270	-0.000	565	2.8	1	7.255	-0.001	387	2.6
Aroclor-1242	2	7.656	0.000	1875	3.0	2	7.854	-0.004	860	2.7
Aroclor-1242	3	8.405	-0.000	29924	155.6	3	9.169	0.002	21933	224.9
Aroclor-1242	4	8.583	0.003	12327	43.4	4	9.545	-0.053	34065	286.6
	Total Col1Ave (4 peaks):				51.2	Total Col2Ave (4 peaks):				129.2 RPD = 87*
	Corrected Ave (3 peaks):				16.4	Corrected Ave (3 peaks):				76.7 RPD = 130*
Aroclor-1248	1	8.405	0.000	29924	93.4	1	8.307	-0.001	21985	143.5
Aroclor-1248	2	8.583	0.002	12327	30.3	2	8.715	0.001	15013	94.8
Aroclor-1248	3	8.992	-0.007	145580	189.4	3	9.169	0.004	21933	120.3
Aroclor-1248	4	9.298	0.003	155450	397.3	4	9.545	-0.046	34065	155.6
	Total Col1Ave (4 peaks):				177.6	Total Col2Ave (4 peaks):				128.5 RPD = 32
	Corrected Ave (3 peaks):				104.3	Corrected Ave (3 peaks):				119.5 RPD = 14
Aroclor-1254	1	9.298	-0.001	155450	235.7	1	9.450	0.001	58639	240.4
Aroclor-1254	2	9.377	-0.001	69801	235.3	2	9.971	0.000	47008	239.5
Aroclor-1254	3	9.668	-0.000	100839	237.8	3	10.124	0.000	100062	235.7
Aroclor-1254	4	9.807	0.000	190544	231.1	4	10.373	0.000	99535	240.5
Aroclor-1254	5	10.176	-0.000	122321	236.7	5	10.570	0.001	61549	244.2
	Total Col1Ave (5 peaks):				235.3	Total Col2Ave (5 peaks):				240.1 RPD = 2
	Corrected Ave (4 peaks):				234.7	Corrected Ave (4 peaks):				239.0 RPD = 2
Aroclor-1260	1	11.043	-0.002	12288	21.5	1	11.661	0.008	29062	86.7
Aroclor-1260	2	11.361	-0.001	13660	22.9	2	11.921	0.003	22238	26.0
Aroclor-1260	3	11.736	0.002	37632	23.8	3	12.441	0.005	3555	15.7
Aroclor-1260	4	12.141	0.002	27105	34.1	4	12.503	0.001	13126	22.8
Aroclor-1260	5	12.320	0.076	2381	6.9	NS	---			----
	Total Col1Ave (5 peaks):				21.9	Total Col2Ave (4 peaks):				37.8 RPD = 53*
	Corrected Ave (4 peaks):				18.8	Corrected Ave (3 peaks):				21.5 RPD = 13
Aroclor-1262	1	10.827	-0.002	220626	453.6	1	11.281	0.081	13562	27.9
Aroclor-1262	2	12.320	0.076	2381	3.0	2	11.661	0.009	29062	70.1
Aroclor-1262	3	---			0.0	3	12.441	0.007	3555	7.6
Aroclor-1262	4	12.989	0.002	3225	4.1	4	12.503	0.001	13126	17.8
	Total Col1Ave (3 peaks):				153.6	Total Col2Ave (4 peaks):				30.8 RPD = 133*
	Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				17.7
Aroclor-1268	1	12.320	0.074	2381	1.2	1	12.441	0.009	3555	3.1
Aroclor-1268	2	---			0.0	2	12.503	0.003	13126	10.6
Aroclor-1268	3	12.701	0.002	2939	1.7	3	12.892	0.000	772	0.7
Aroclor-1268	4	13.493	0.003	9164	1.6	4	13.707	-0.002	2801	0.8
	Total Col1Ave (3 peaks):				1.5	Total Col2Ave (4 peaks):				3.8 RPD = 87*
	Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				1.6

Total PCB Area Col1 (5.906 - 13.793) = 2118645 Col1 Total PCB = 0.3 ppm*

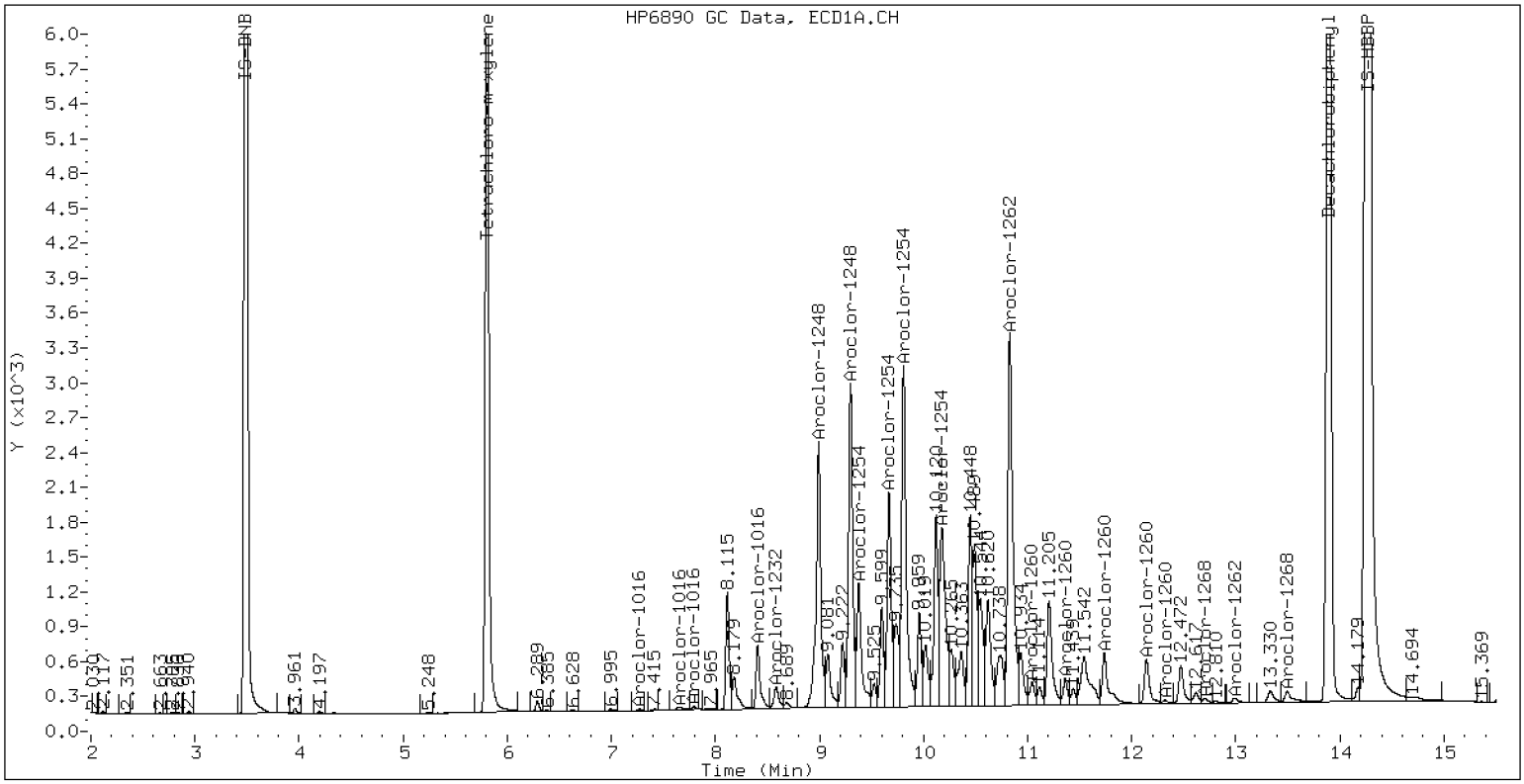
Total PCB Area Col2 (5.785 - 14.019) = 1007601 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

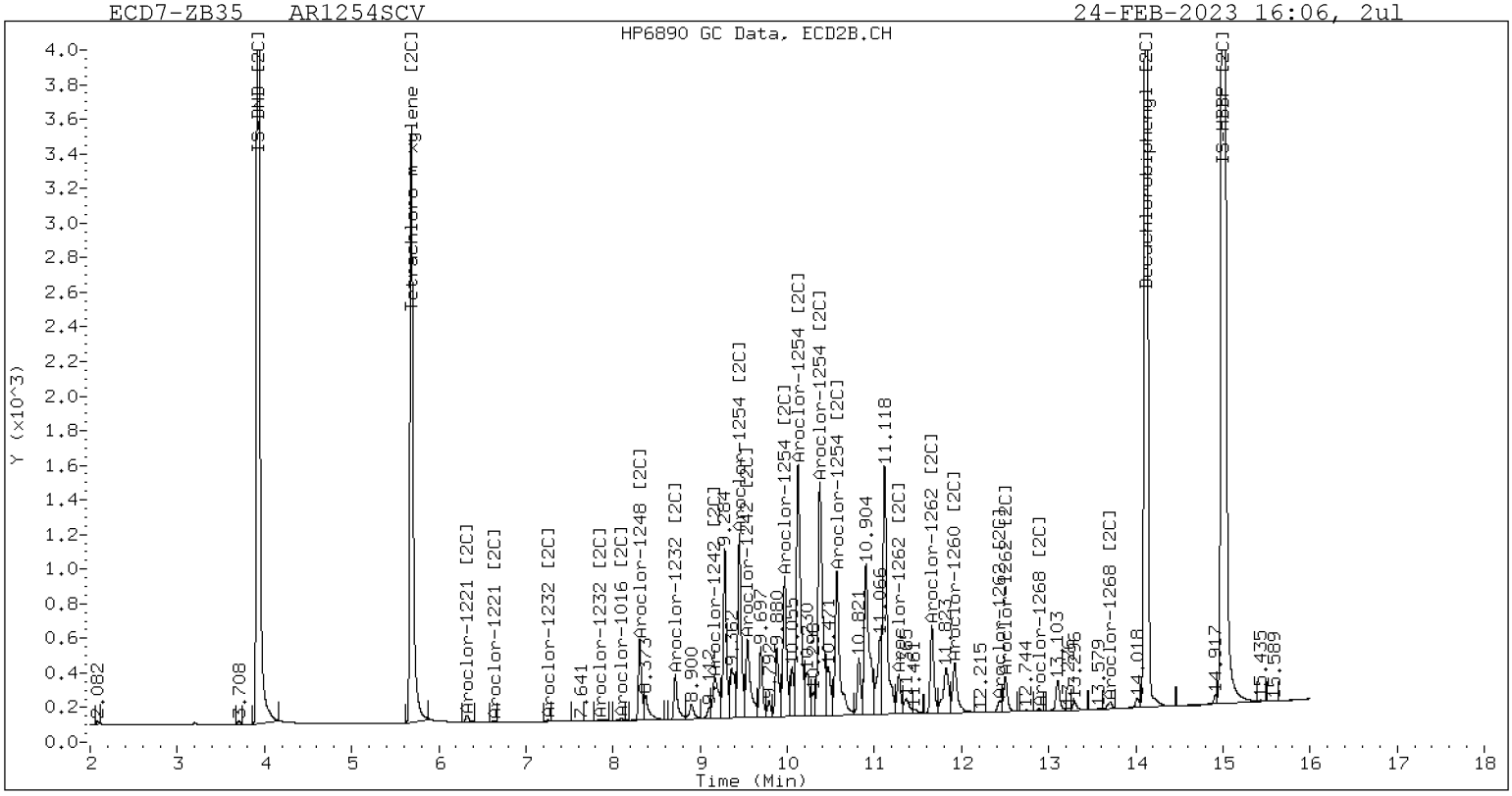
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254SCV 24-FEB-2023 16:06, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254SCV 24-FEB-2023 16:06, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242317ECD7.D
Data file 2: /230224.b/230224.b/02242317ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162SCV
Client ID:
Injection Date: 24-FEB-2023 16:27
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.807	0.000	356001	5.685	0.000	170882	36.0	36.6	1.7	Tetrachloro-m-xylene
13.895	0.002	533971	14.119	0.000	326235	34.4	37.9	9.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	661953	-1.8
Hexabromobiphenyl	1429847	1574993	10.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	317807	0.8
Hexabromobiphenyl	513946	565951	10.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.269	-0.001	7175	28.5	1	7.256	0.000	3727	20.0
Aroclor-1016	2	7.659	0.005	12893	16.8	2	7.863	0.007	5834	15.5
Aroclor-1016	3	7.794	0.004	6936	18.5	3	8.063	0.009	2963	17.4
Aroclor-1016	4	8.408	0.003	3610	14.9	4	8.308	0.002	2045	15.3
Total Col1Ave (4 peaks):					19.7	Total Col2Ave (4 peaks):				17.0 RPD = 14
Corrected Ave (3 peaks):					16.8	Corrected Ave (3 peaks):				16.1 RPD = 4
Aroclor-1221	1	4.730	-0.000	15803	266.6	1	4.955	-0.001	7909	262.9
Aroclor-1221	2	6.131	-0.001	26946	254.1	2	6.296	-0.000	14303	251.2
Aroclor-1221	3	6.382	-0.000	62477	253.8	3	6.622	0.000	23612	254.7
Total Col1Ave (3 peaks):					258.2	Total Col2Ave (3 peaks):				256.3 RPD = 1
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.730	0.000	15803	445.6	1	4.955	-0.001	7909	486.4
Aroclor-1232	2	6.131	0.000	26946	383.1	2	7.256	0.002	3727	46.1
Aroclor-1232	3	7.659	0.003	12893	40.5	3	7.863	0.002	5834	36.1
Aroclor-1232	4	8.583	0.003	2684	19.8	4	8.716	0.002	1189	25.6
Total Col1Ave (4 peaks):					222.3	Total Col2Ave (4 peaks):				148.5 RPD = 40
Corrected Ave (3 peaks):					147.8	Corrected Ave (3 peaks):				35.9 RPD = 122*
Aroclor-1242	1	7.269	-0.001	7175	35.0	1	7.256	0.000	3727	25.2
Aroclor-1242	2	7.659	0.003	12893	20.7	2	7.863	0.005	5834	18.8
Aroclor-1242	3	8.408	0.002	3610	18.6	3	9.175	0.008	1082	11.2
Aroclor-1242	4	8.583	0.004	2684	9.4	4	9.543	-0.054	1390	11.8
Total Col1Ave (4 peaks):					20.9	Total Col2Ave (4 peaks):				16.8 RPD = 22
Corrected Ave (3 peaks):					16.2	Corrected Ave (3 peaks):				13.9 RPD = 15
Aroclor-1248	1	8.408	0.002	3610	11.2	1	8.308	0.001	2045	13.5
Aroclor-1248	2	8.583	0.003	2684	6.5	2	8.716	0.002	1189	7.6
Aroclor-1248	3	8.994	-0.005	24440	31.6	3	9.175	0.009	1082	6.0
Aroclor-1248	4	9.302	0.008	26328	66.8	4	9.543	-0.048	1390	6.4
Total Col1Ave (4 peaks):					29.0	Total Col2Ave (4 peaks):				8.4 RPD = 110*
Corrected Ave (3 peaks):					16.4	Corrected Ave (3 peaks):				6.7 RPD = 85*
Aroclor-1254	1	9.302	0.004	26328	39.6	1	9.452	0.003	9571	39.6
Aroclor-1254	2	---			0.0	2	9.972	0.002	1733	8.9
Aroclor-1254	3	9.670	0.002	3721	8.7	3	10.147	0.023	49218	117.1
Aroclor-1254	4	9.808	0.000	9653	11.6	4	10.370	-0.002	59603	145.4
Aroclor-1254	5	10.120	-0.056	131179	251.9	5	10.569	0.001	79533	318.7
Total Col1Ave (4 peaks):					78.0	Total Col2Ave (5 peaks):				125.9 RPD = 47*
Corrected Ave (3 peaks):					20.0	Corrected Ave (4 peaks):				77.8 RPD = 118*
Aroclor-1260	1	11.044	-0.000	223208	394.0	1	11.652	-0.001	104071	312.7
Aroclor-1260	2	11.361	-0.001	190166	321.2	2	11.919	0.002	251579	296.2
Aroclor-1260	3	11.737	0.003	458281	291.9	3	12.435	-0.001	113645	504.2
Aroclor-1260	4	12.141	0.002	149720	189.4	4	12.501	-0.001	182951	319.6
Aroclor-1260	5	12.244	0.000	196033	576.0	NS	---			----
Total Col1Ave (5 peaks):					354.5	Total Col2Ave (4 peaks):				358.2 RPD = 1
Corrected Ave (4 peaks):					299.1	Corrected Ave (3 peaks):				309.5 RPD = 3
Aroclor-1262	1	10.828	-0.001	121431	251.3	1	11.201	0.000	121335	251.1
Aroclor-1262	2	12.244	0.000	196033	249.3	2	11.652	0.000	104071	252.9
Aroclor-1262	3	12.319	0.001	211092	249.8	3	12.435	0.001	113645	243.4
Aroclor-1262	4	12.988	0.001	183455	237.5	4	12.501	-0.001	182951	250.1
Total Col1Ave (4 peaks):					247.0	Total Col2Ave (4 peaks):				249.3 RPD = 1
Corrected Ave (3 peaks):					245.5	Corrected Ave (3 peaks):				248.2 RPD = 1
Aroclor-1268	1	12.244	-0.002	196033	97.1	1	12.435	0.003	113645	99.7
Aroclor-1268	2	12.319	0.002	211092	105.6	2	12.501	0.001	182951	149.3
Aroclor-1268	3	12.723	0.024	77240	45.2	3	12.891	-0.000	7755	7.4
Aroclor-1268	4	13.488	-0.002	65479	11.6	4	13.709	0.000	35146	10.5
Total Col1Ave (4 peaks):					64.9	Total Col2Ave (4 peaks):				66.7 RPD = 3

Corrected Ave (3 peaks): 51.3 Corrected Ave (3 peaks): 39.2 RPD = 27

Total PCB Area Col1 (5.906 - 13.793) = 3239932 Col1 Total PCB = 0.4 ppm*

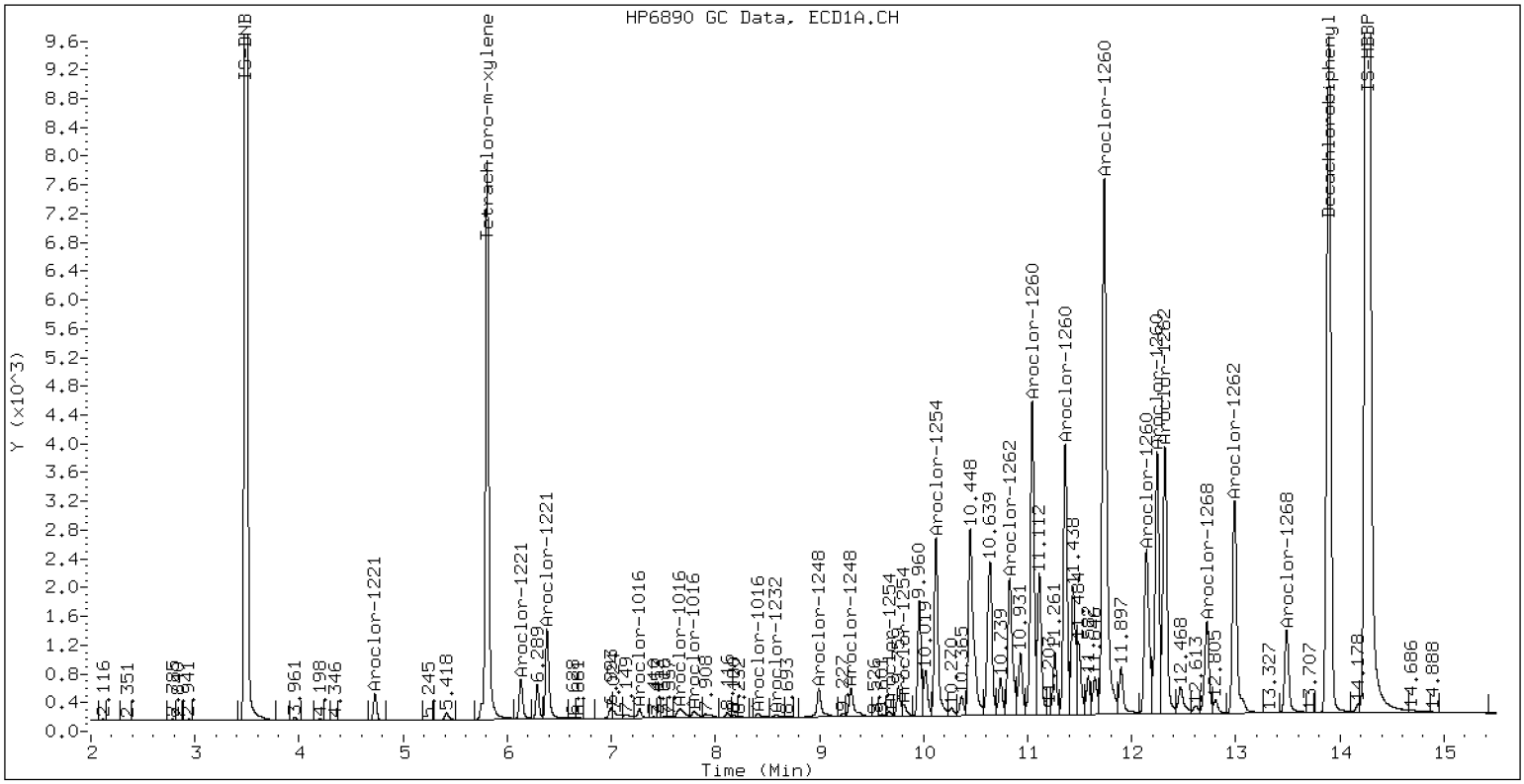
Total PCB Area Col2 (5.785 - 14.019) = 1655522 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

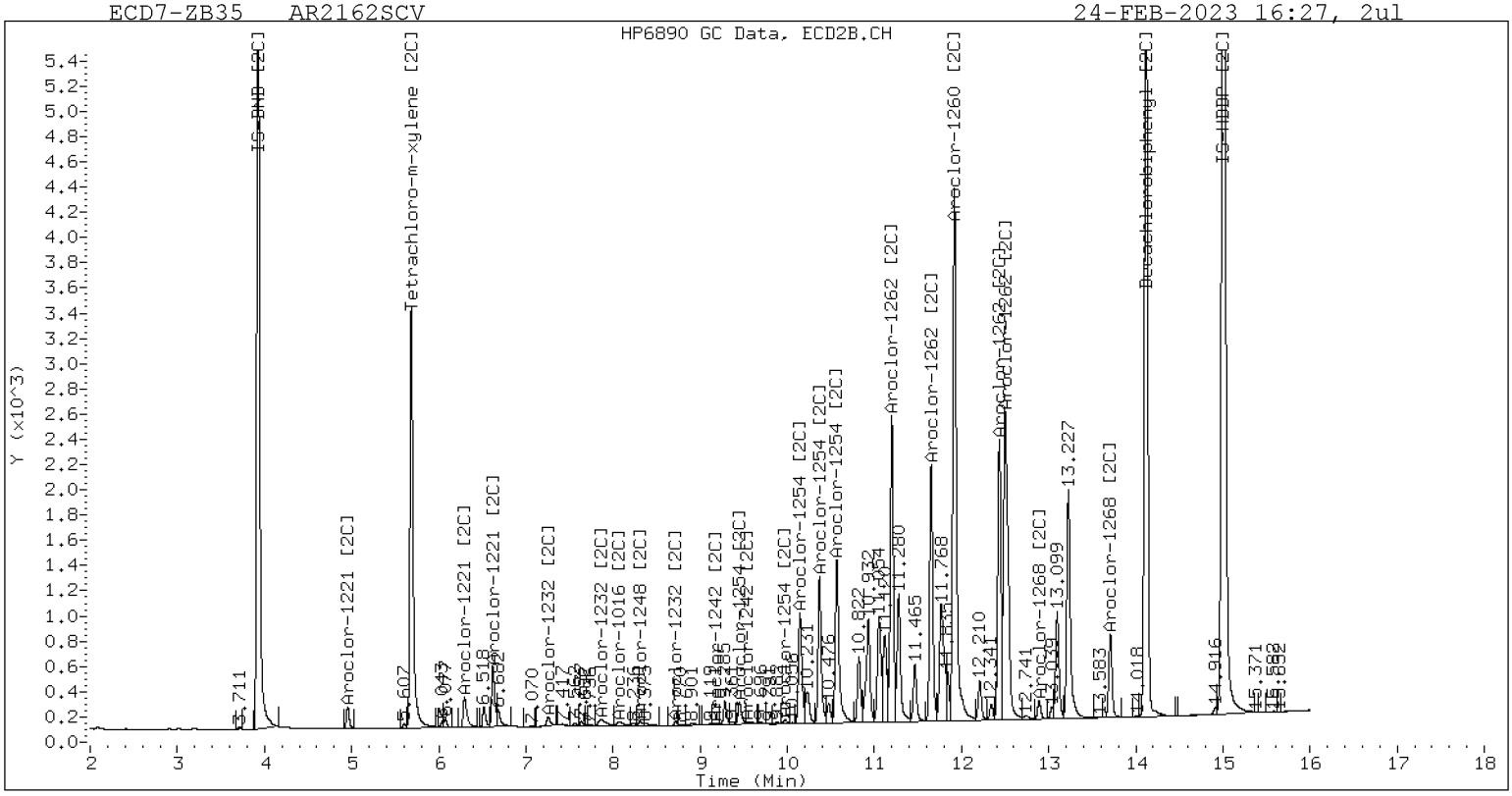
PCB Dual Column Chromatograms

ECD7-ZB5 AR2162SCV 24-FEB-2023 16:27, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162SCV 24-FEB-2023 16:27, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242318ECD7.D
Data file 2: /230224.b/230224.b/02242318ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268SCV
Client ID:
Injection Date: 24-FEB-2023 16:48
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.806	0.000	363331	5.685	0.000	176204	37.1	38.2	2.9	Tetrachloro-m-xylene
13.894	0.001	800845	14.118	-0.001	488290	51.3	56.4	9.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	656592	-2.6
Hexabromobiphenyl	1429847	1584453	10.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	314741	-0.2
Hexabromobiphenyl	513946	568346	10.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.270	-0.001	28327	113.6	1	7.254	-0.001	20651	112.1
Aroclor-1016	2	7.657	0.003	80668	106.1	2	7.861	0.005	41326	110.6
Aroclor-1016	3	7.793	0.003	40661	109.6	3	8.060	0.005	20446	121.2
Aroclor-1016	4	8.407	0.002	24680	102.9	4	8.308	0.001	13576	102.5
Total Col1Ave (4 peaks):					108.0	Total Col2Ave (4 peaks):				111.6 RPD = 3
Corrected Ave (3 peaks):					106.2	Corrected Ave (3 peaks):				108.4 RPD = 2
Aroclor-1221	1	4.729	-0.001	8535	145.1	1	4.956	-0.000	3965	133.1
Aroclor-1221	2	6.132	-0.000	15523	147.6	2	6.297	0.001	8689	154.1
Aroclor-1221	3	6.382	-0.000	45872	187.9	3	6.622	0.001	22272	242.6
Total Col1Ave (3 peaks):					160.2	Total Col2Ave (3 peaks):				176.6 RPD = 10
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.729	-0.001	8535	242.6	1	4.956	0.000	3965	246.2
Aroclor-1232	2	6.132	0.001	15523	222.5	2	7.254	0.000	20651	258.1
Aroclor-1232	3	7.657	0.001	80668	255.4	3	7.861	0.001	41326	258.3
Aroclor-1232	4	8.582	0.001	34784	259.2	4	8.714	-0.001	12504	271.5
Total Col1Ave (4 peaks):					244.9	Total Col2Ave (4 peaks):				258.5 RPD = 5
Corrected Ave (3 peaks):					240.2	Corrected Ave (3 peaks):				254.2 RPD = 6
Aroclor-1242	1	7.270	-0.001	28327	139.2	1	7.254	-0.001	20651	141.2
Aroclor-1242	2	7.657	0.001	80668	130.5	2	7.861	0.003	41326	134.4
Aroclor-1242	3	8.407	0.001	24680	128.4	3	9.170	0.003	12830	134.1
Aroclor-1242	4	8.582	0.003	34784	122.4	4	9.600	0.003	14836	127.3
Total Col1Ave (4 peaks):					130.1	Total Col2Ave (4 peaks):				134.3 RPD = 3
Corrected Ave (3 peaks):					127.1	Corrected Ave (3 peaks):				132.0 RPD = 4
Aroclor-1248	1	8.407	0.001	24680	77.0	1	8.308	0.000	13576	90.3
Aroclor-1248	2	8.582	0.001	34784	85.4	2	8.714	-0.000	12504	80.5
Aroclor-1248	3	8.996	-0.003	83592	108.8	3	9.170	0.004	12830	71.8
Aroclor-1248	4	9.292	-0.003	39603	101.3	4	9.600	0.010	14836	69.1
Total Col1Ave (4 peaks):					93.1	Total Col2Ave (4 peaks):				77.9 RPD = 18
Corrected Ave (3 peaks):					87.9	Corrected Ave (3 peaks):				73.8 RPD = 17
Aroclor-1254	1	9.292	-0.007	39603	60.1	1	9.452	0.003	4590	19.2
Aroclor-1254	2	9.377	-0.000	11450	38.6	2	9.973	0.003	2892	15.0
Aroclor-1254	3	9.674	0.005	6387	15.1	3	10.131	0.007	6052	14.5
Aroclor-1254	4	9.813	0.006	10162	12.3	4	10.390	0.017	5324	13.1
Aroclor-1254	5	10.189	0.012	6862	13.3	5	10.572	0.004	1891	7.7
Total Col1Ave (5 peaks):					27.9	Total Col2Ave (5 peaks):				13.9 RPD = 67*
Corrected Ave (4 peaks):					19.8	Corrected Ave (4 peaks):				12.6 RPD = 45*
Aroclor-1260	1	11.046	0.002	87033	152.7	1	11.645	-0.008	62543	187.1
Aroclor-1260	2	11.362	0.001	6300	10.6	2	11.920	0.003	28552	33.5
Aroclor-1260	3	11.738	0.004	54524	34.5	3	12.432	-0.004	285450	1261.2
Aroclor-1260	4	12.144	0.005	1727	2.2	4	12.499	-0.002	306992	534.0
Aroclor-1260	5	12.246	0.002	502931	1469.0	NS	---			----
Total Col1Ave (5 peaks):					333.8	Total Col2Ave (4 peaks):				503.9 RPD = 41*
Corrected Ave (4 peaks):					50.0	Corrected Ave (3 peaks):				251.5 RPD = 134*
Aroclor-1262	1	10.832	0.004	3395	7.0	1	11.201	0.001	44255	91.2
Aroclor-1262	2	12.246	0.002	502931	635.9	2	11.645	-0.007	62543	151.3
Aroclor-1262	3	12.318	-0.000	497006	584.5	3	12.432	-0.002	285450	608.7
Aroclor-1262	4	12.987	-0.000	202197	260.2	4	12.499	-0.003	306992	417.9
Total Col1Ave (4 peaks):					371.9	Total Col2Ave (4 peaks):				317.3 RPD = 16
Corrected Ave (3 peaks):					283.9	Corrected Ave (3 peaks):				220.1 RPD = 25
Aroclor-1268	1	12.246	-0.001	502931	247.7	1	12.432	-0.000	285450	249.4
Aroclor-1268	2	12.318	0.002	497006	247.2	2	12.499	-0.001	306992	249.5
Aroclor-1268	3	12.699	-0.000	422793	245.8	3	12.892	0.000	260893	248.4
Aroclor-1268	4	13.490	0.000	1386953	244.9	4	13.709	-0.000	829733	247.1
Total Col1Ave (4 peaks):					246.4	Total Col2Ave (4 peaks):				248.6 RPD = 1

Corrected Ave (3 peaks): 246.0 Corrected Ave (3 peaks): 248.3 RPD = 1

Total PCB Area Col1 (5.906 - 13.793) = 4180607 Col1 Total PCB = 0.5 ppm*

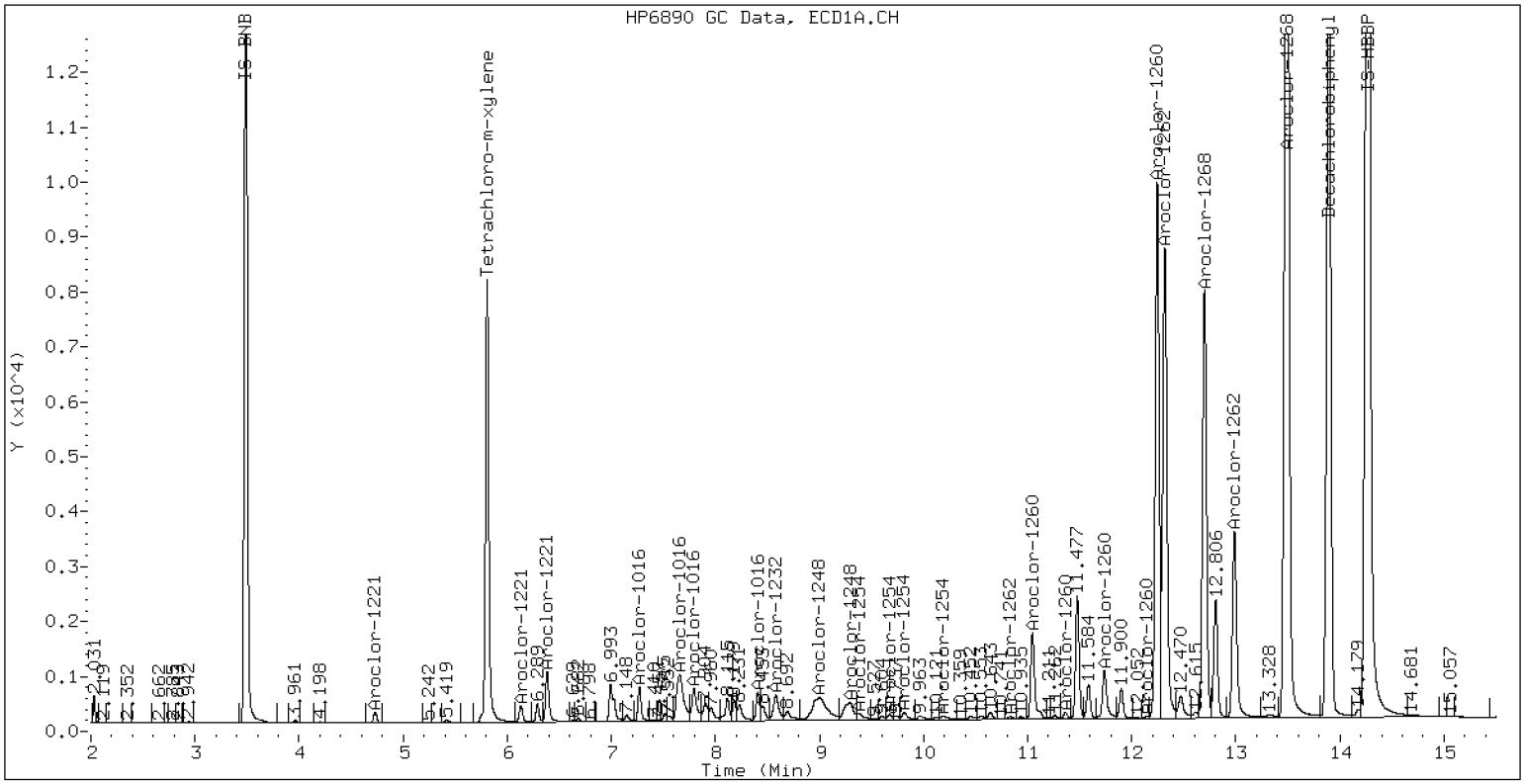
Total PCB Area Col2 (5.785 - 14.019) = 2376912 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

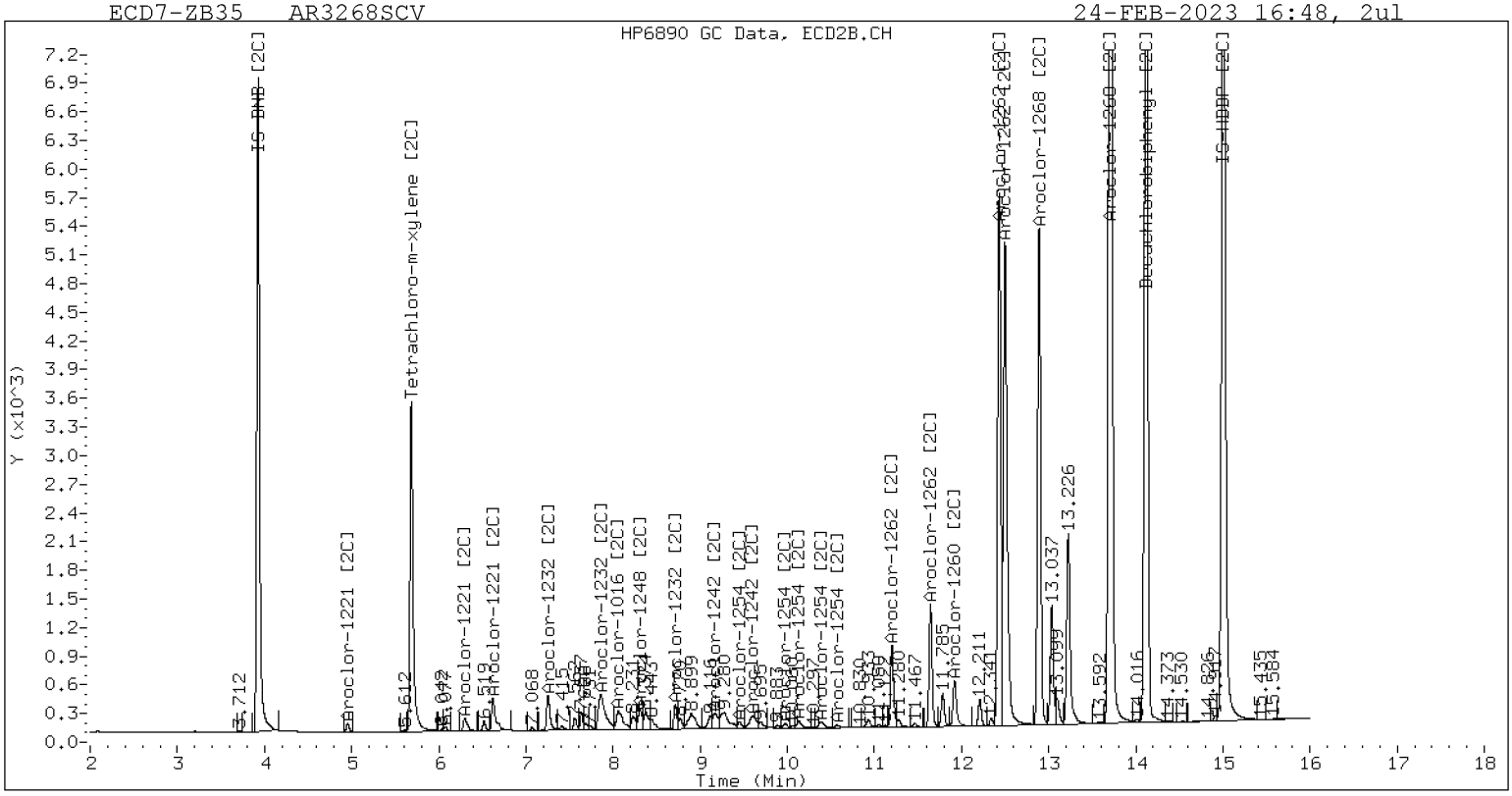
PCB Dual Column Chromatograms

ECD7-ZB5 AR3268SCV 24-FEB-2023 16:48, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268SCV 24-FEB-2023 16:48, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: /230224.b/02242319ECD7.D ARI ID: DDTS

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
9.261	0.000	694353	9.912	0.000	580269	0.100	0.100	0.0	2,4-DDE
0.000	-10.293	0	10.672	0.000	673479	0.000	0.200#	----	2,4-DDT
9.686	0.000	1191406	10.212	0.000	433373	0.100	0.100	0.0	4,4-DDE
10.259	0.000	1721760	10.672	0.000	673479	0.100	0.200#	66.7*	4,4-DDD

# Indicates value is from co-eluting peaks
* Indicates RPD > 40%

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: /230224.b/02242320ECD7.D ARI ID: DDT BD

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
9.285	0.023	4923	9.921	0.009	9972	0.001	0.002	84.3*	2,4-DDE
0.000	-10.293	0	10.677	0.004	249094	0.000	0.074#	----	2,4-DDT
9.692	0.006	12128	10.221	0.009	528	0.001	0.000	156.7*	4,4-DDE
10.265	0.006	410017	10.677	0.004	249094	0.023	0.074#	103.6*	4,4-DDD

# Indicates value is from co-eluting peaks
* Indicates RPD > 40%

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GB00069
Laboratory ID: SLB0342-SCV1
Sequence: SLB0342
Sequence Name: AR1660SCV1
Standard ID: L002065

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1016	250.00	243	-2.7	20.00
Aroclor 1016 [2C]	250.00	246	-1.4	20.00
Aroclor 1260	250.00	266	6.2	20.00
Aroclor 1260 [2C]	250.00	261	4.5	20.00
Decachlorobiphenyl	40.000	34.3	-14.2	20.00
Tetrachlorometaxylene	40.000	34.9	-12.6	20.00
Decachlorobiphenyl [2C]	40.000	37.3	-6.6	20.00
Tetrachlorometaxylene [2C]	40.000	35.8	-10.6	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Calibration: GB00069
Sequence: SLB0342

SDG: 23C0752
Project: AOC5 MR Phase 1
Laboratory ID: SLB0342-SCV2
Sequence Name: AR1242SCV2
Standard ID: K007656

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1242	250.00	204	-18.5	20.00
Aroclor 1242 [2C]	250.00	221	-11.8	20.00
Decachlorobiphenyl	40.000	37.0	-7.5	20.00
Tetrachlorometaxylene	40.000	33.6	-15.9	20.00
Decachlorobiphenyl [2C]	40.000	40.3	0.8	20.00
Tetrachlorometaxylene [2C]	40.000	34.5	-13.7	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GB00069
Laboratory ID: SLB0342-SCV3
Sequence: SLB0342
Sequence Name: AR1248SCV3
Standard ID: L002066

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1248	250.00	249	-0.2	20.00
Aroclor 1248 [2C]	250.00	248	-0.8	20.00
Decachlorobiphenyl	40.000	33.1	-17.2	20.00
Tetrachlorometaxylene	40.000	34.9	-12.8	20.00
Decachlorobiphenyl [2C]	40.000	36.3	-9.2	20.00
Tetrachlorometaxylene [2C]	40.000	36.4	-9.0	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GB00069
Laboratory ID: SLB0342-SCV4
Sequence: SLB0342
Sequence Name: AR1254SCV4
Standard ID: L002067

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1254	250.00	235	-5.9	20.00
Aroclor 1254 [2C]	250.00	240	-4.0	20.00
Decachlorobiphenyl	40.000	34.6	-13.4	20.00
Tetrachlorometaxylene	40.000	36.1	-9.7	20.00
Decachlorobiphenyl [2C]	40.000	37.9	-5.2	20.00
Tetrachlorometaxylene [2C]	40.000	37.1	-7.3	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GB00069
Laboratory ID: SLB0342-SCV5
Sequence: SLB0342
Sequence Name: AR2162SCV5
Standard ID: L002068

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1221	250.00	258	3.3	20.00
Aroclor 1221 [2C]	250.00	256	2.5	20.00
Aroclor 1262	250.00	247	-1.2	20.00
Aroclor 1262 [2C]	250.00	249	-0.3	20.00
Decachlorobiphenyl	40.000	34.4	-13.9	20.00
Tetrachlorometaxylene	40.000	36.0	-10.0	20.00
Decachlorobiphenyl [2C]	40.000	37.9	-5.4	20.00
Tetrachlorometaxylene [2C]	40.000	36.6	-8.4	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GB00069
Laboratory ID: SLB0342-SCV6
Sequence: SLB0342
Sequence Name: AR3268SCV6
Standard ID: L002069

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1232	250.00	245	-2.0	20.00
Aroclor 1232 [2C]	250.00	259	3.4	20.00
Aroclor 1268	250.00	246	-1.4	20.00
Aroclor 1268 [2C]	250.00	249	-0.6	20.00
Decachlorobiphenyl	40.000	51.3	28.3	20.00
Tetrachlorometaxylene	40.000	37.1	-7.3	20.00
Decachlorobiphenyl [2C]	40.000	56.4	41.0	20.00
Tetrachlorometaxylene [2C]	40.000	38.2	-4.6	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	04122310ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLD0150	Injection Date:	04/12/23
Lab Sample ID:	SLD0150-ICV1	Injection Time:	12:01
Sequence Name:	AR1254ICV1		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Aroclor 1254	A	250.00	277	0.0662949	0.0729007		10.6	
Aroclor-1254 (1)	A	250.00	259	0.0803331	0.0833163			
Aroclor-1254 (2)	A	250.00	281	0.0361302	0.0405999			
Aroclor-1254 (3)	A	250.00	259	0.0516471	0.0534281			
Aroclor-1254 (4)	A	250.00	267	0.1004230	0.1072894			
Aroclor-1254 (5)	A	250.00	317	0.0629414	0.0798698			
Aroclor 1254 [2C]	A	250.00	255	0.0763106	0.0784672		1.8	
Aroclor-1254 (1) [2C]	A	250.00	241	0.0608052	0.0585889			
Aroclor-1254 (2) [2C]	A	250.00	241	0.0489162	0.0471887			
Aroclor-1254 (3) [2C]	A	250.00	242	0.1058376	0.1025777			
Aroclor-1254 (4) [2C]	A	250.00	285	0.1031750	0.1176576			
Aroclor-1254 (5) [2C]	A	250.00	264	0.0628191	0.0663229			
Decachlorobiphenyl	A	40.000	37.2	0.7878687	0.7319130		-7.0	
Tetrachlorometaxylene	A	40.000	38.3	1.1944880	1.1442640		-4.3	
Decachlorobiphenyl [2C]	A	40.000	37.6	1.2182710	1.1458240		-6.0	
Tetrachlorometaxylene [2C]	A	40.000	36.4	1.1737210	1.0697820		-9.0	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230412.b/04122310ECD7.D
Data file 2: /230412.b/230412.b/04122310ECD7.D
Method: \\target\share\chem4\ecd7.i\230412.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254ICV1
Client ID:
Injection Date: 12-APR-2023 12:01
Report Date: 04/12/2023 13:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.810	-0.001	286051	5.695	-0.000	177318	38.3	36.5	5.0	Tetrachloro-m-xylene
13.899	0.000	425812	14.124	-0.001	328078	37.2	37.6	1.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	499974	-25.8
Hexabromobiphenyl	1429847	1163559	-18.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	331503	5.2
Hexabromobiphenyl	513946	572650	11.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1254	1	9.315	0.000	130175	259.3	1	9.468	0.000	60695	240.9
Aroclor-1254	2	9.396	0.000	63434	280.9	2	9.989	0.000	48885	241.2
Aroclor-1254	3	9.687	0.000	83477	258.6	3	10.146	0.000	106265	242.3
Aroclor-1254	4	9.830	0.000	167631	267.1	4	10.392	0.000	121887	285.1
Aroclor-1254	5	10.213	0.000	124790	317.2	5	10.585	0.000	68707	263.9
		Total Col1Ave (5 peaks):		276.6			Total Col2Ave (5 peaks):		254.7	RPD = 8
		Corrected Ave (4 peaks):		266.5			Corrected Ave (4 peaks):		247.1	RPD = 8
			CalAmt %D:	10.7				CalAmt %D:	1.9	

Total PCB Area Col1 (5.911 - 13.799) = 1820542 Col1 Total PCB = 0.3 ppm*

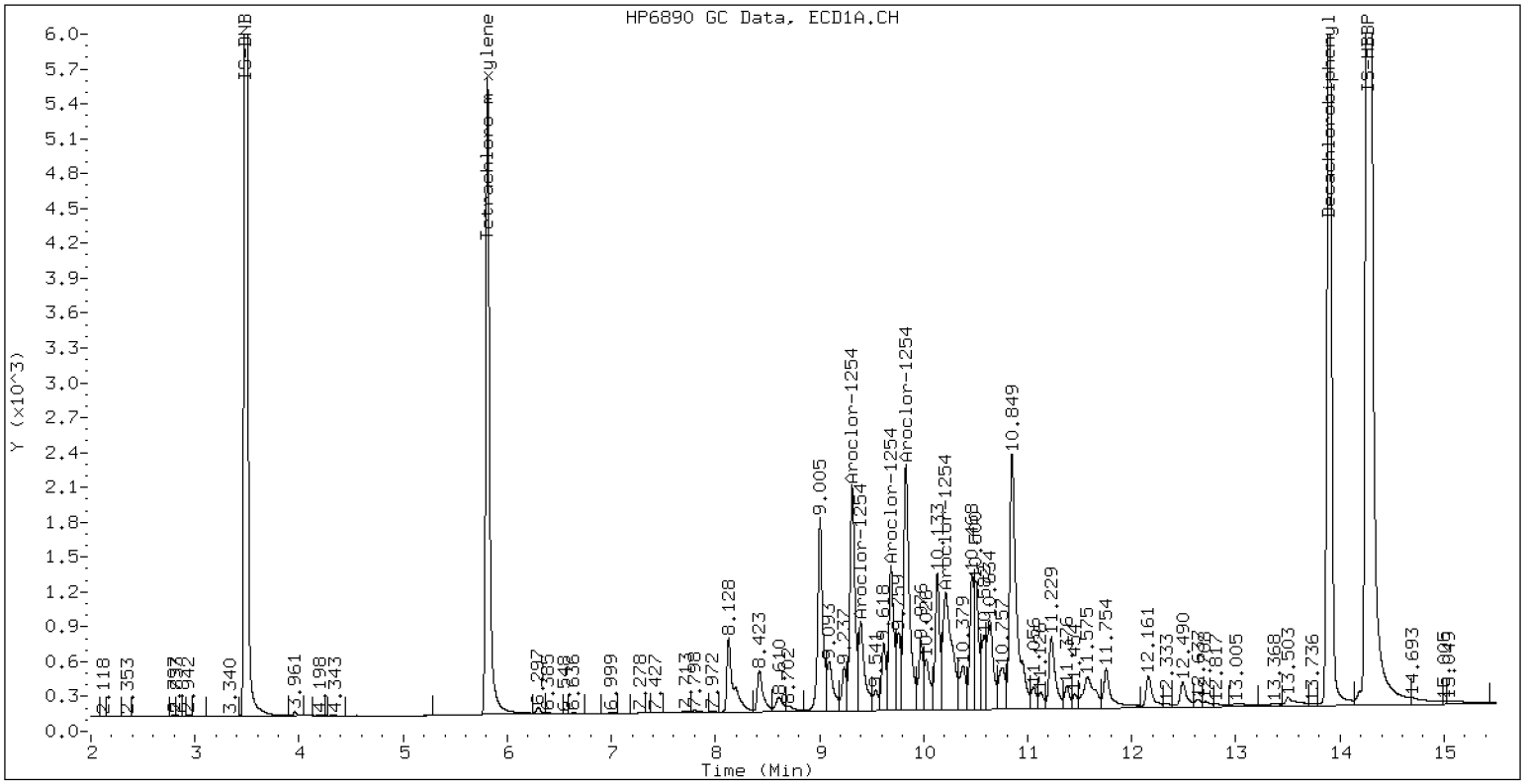
Total PCB Area Col2 (5.795 - 14.025) = 1049343 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

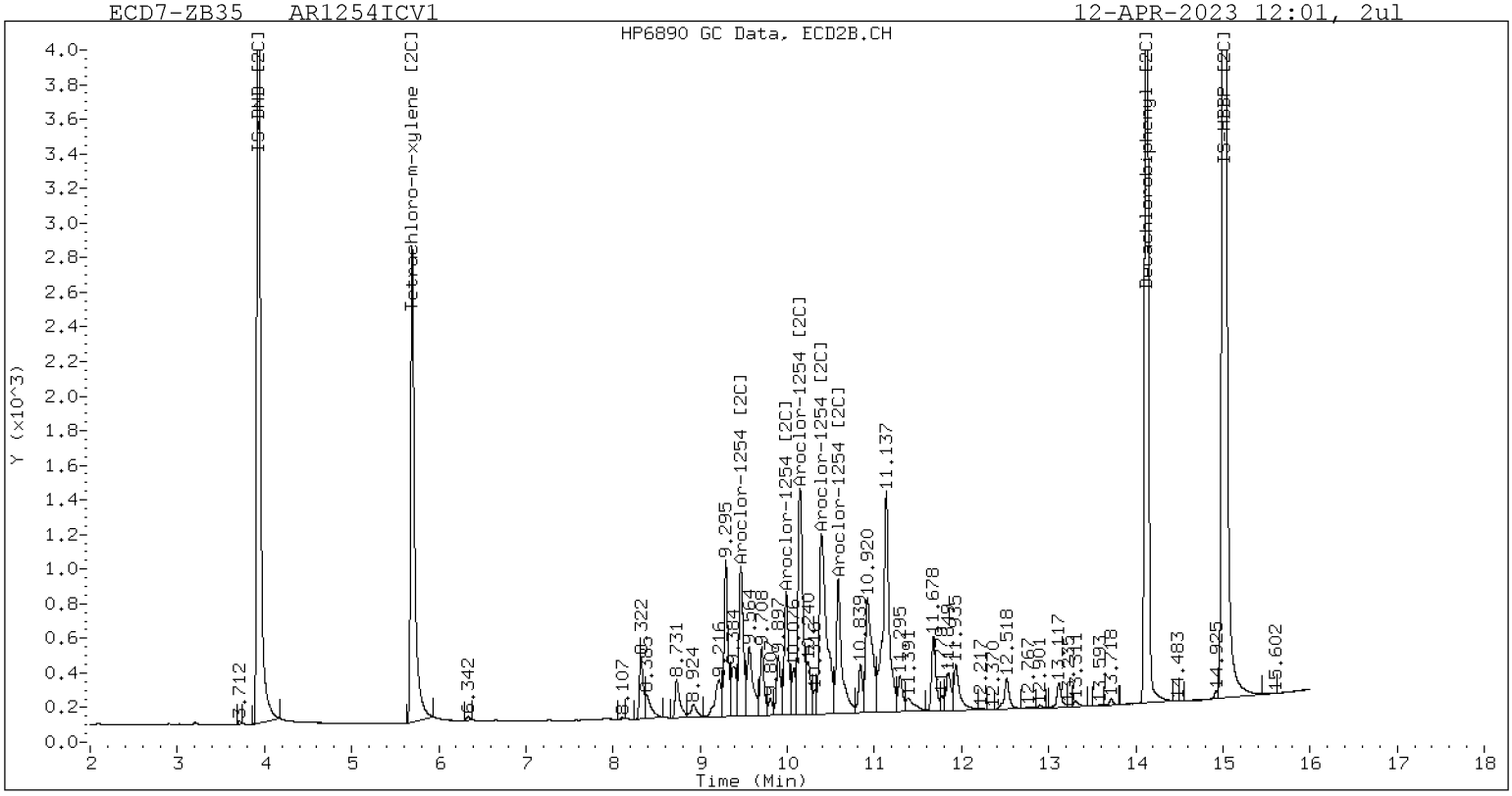
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254ICV1 12-APR-2023 12:01, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254ICV1 12-APR-2023 12:01, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	04122311ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLD0150	Injection Date:	04/12/23
Lab Sample ID:	SLD0150-ICV2	Injection Time:	12:21
Sequence Name:	AR1660ICV2		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Aroclor 1016	A	250.00	258	0.0493662	0.0493099		3.0	
Aroclor-1016 (1)	A	250.00	263	0.0303852	0.0319461		5.2	
Aroclor-1016 (2)	A	250.00	223	0.0926308	0.0827958		-10.8	
Aroclor-1016 (3)	A	250.00	295	0.0452180	0.0533311		18.0	
Aroclor-1016 (4)	A	250.00	249	0.0292307	0.0291666		-0.4	
Aroclor 1016 [2C]	A	250.00	258	0.0545857	0.0547916		3.1	
Aroclor-1016 (1) [2C]	A	250.00	232	0.0468313	0.0435677		-7.2	
Aroclor-1016 (2) [2C]	A	250.00	233	0.0949676	0.0884929		-6.8	
Aroclor-1016 (3) [2C]	A	250.00	295	0.0428922	0.0506177		18.0	
Aroclor-1016 (4) [2C]	A	250.00	271	0.0336515	0.0364879		8.4	
Aroclor 1260	A	250.00	254	0.0392091	0.0394912		1.4	
Aroclor-1260 (1)	A	250.00	260	0.0287785	0.0299629		4.0	
Aroclor-1260 (2)	A	250.00	254	0.0300690	0.0305223		1.6	
Aroclor-1260 (3)	A	250.00	251	0.0797517	0.0800633		0.4	
Aroclor-1260 (4)	A	250.00	242	0.0401599	0.0388852		-3.2	
Aroclor-1260 (5)	A	250.00	261	0.0172866	0.0180224		4.4	
Aroclor 1260 [2C]	A	250.00	225	0.0699688	0.0645784		-10.1	
Aroclor-1260 (1) [2C]	A	250.00	227	0.0470406	0.0426480		-9.2	
Aroclor-1260 (2) [2C]	A	250.00	237	0.1200523	0.1136199		-5.2	
Aroclor-1260 (3) [2C]	A	250.00	198	0.0318590	0.0252756		-20.8	
Aroclor-1260 (4) [2C]	A	250.00	237	0.0809231	0.0767698		-5.2	
Decachlorobiphenyl	A	40.000	38.1	0.7878687	0.7512017		-4.8	
Tetrachlorometaxylene	A	40.000	39.9	1.1944880	1.1903680		-0.3	
Decachlorobiphenyl [2C]	A	40.000	38.7	1.2182710	1.1776900		-3.3	
Tetrachlorometaxylene [2C]	A	40.000	37.8	1.1737210	1.1091620		-5.5	

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230412.b/04122311ECD7.D
Data file 2: /230412.b/230412.b/04122311ECD7.D
Method: \\target\share\chem4\ecd7.i\230412.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660ICV2
Client ID:
Injection Date: 12-APR-2023 12:21
Report Date: 04/12/2023 13:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.811	0.000	301635	5.695	0.000	185117	39.9	37.8	5.3	Tetrachloro-m-xylene
13.899	0.000	441784	14.125	0.000	343326	38.1	38.7	1.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	506793	-24.8
Hexabromobiphenyl	1429847	1176206	-17.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	333796	5.9
Hexabromobiphenyl	513946	583050	13.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.276	0.000	50594	262.8	1	7.261	0.000	45446	232.6
Aroclor-1016	2	7.681	0.000	131126	223.5	2	7.894	0.000	92308	233.0
Aroclor-1016	3	7.807	0.000	84462	294.9	3	8.098	0.000	52800	295.0
Aroclor-1016	4	8.418	0.000	46192	249.5	4	8.322	0.000	38061	271.1
Total Col1Ave (4 peaks):					257.7	Total Col2Ave (4 peaks):				257.9 RPD = 0
Corrected Ave (3 peaks):					245.3	Corrected Ave (3 peaks):				245.5 RPD = 0
CalAmt %D:					3.1	CalAmt %D:				3.2
Aroclor-1260	1	11.056	0.000	110133	260.3	1	11.665	0.000	77706	226.7
Aroclor-1260	2	11.373	0.000	112189	253.8	2	11.932	0.000	207019	236.6
Aroclor-1260	3	11.751	0.000	294284	251.0	3	12.445	0.000	46053	198.3
Aroclor-1260	4	12.159	0.000	142928	242.1	4	12.517	0.000	139877	237.2
Aroclor-1260	5	12.255	0.000	66244	260.6	NS	---			----
Total Col1Ave (5 peaks):					253.5	Total Col2Ave (4 peaks):				224.7 RPD = 12
Corrected Ave (4 peaks):					251.8	Corrected Ave (3 peaks):				220.5 RPD = 13
CalAmt %D:					1.4	CalAmt %D:				-10.1

Total PCB Area Col1 (5.911 - 13.799) = 3072600 Col1 Total PCB = 0.5 ppm*

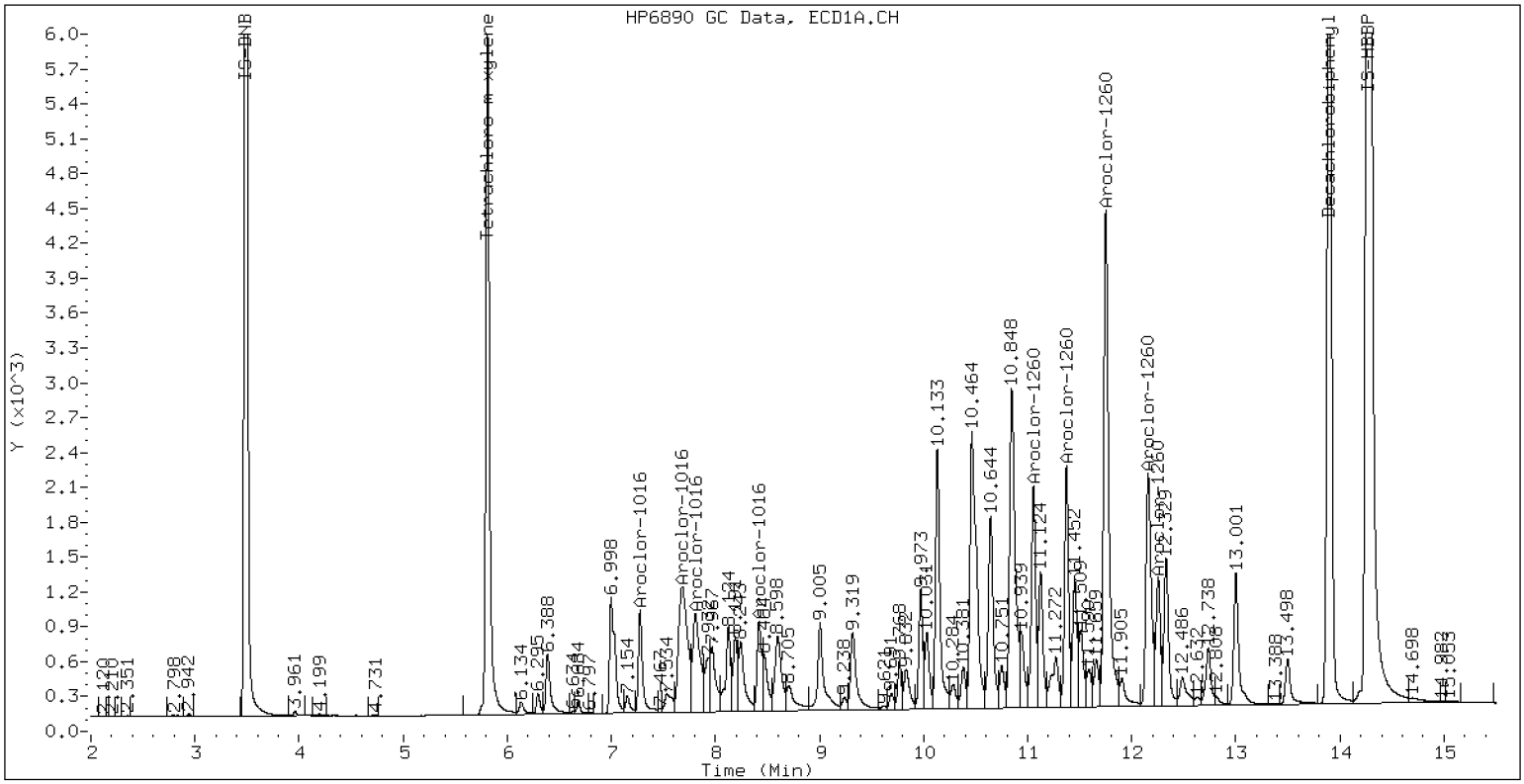
Total PCB Area Col2 (5.795 - 14.025) = 1904546 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

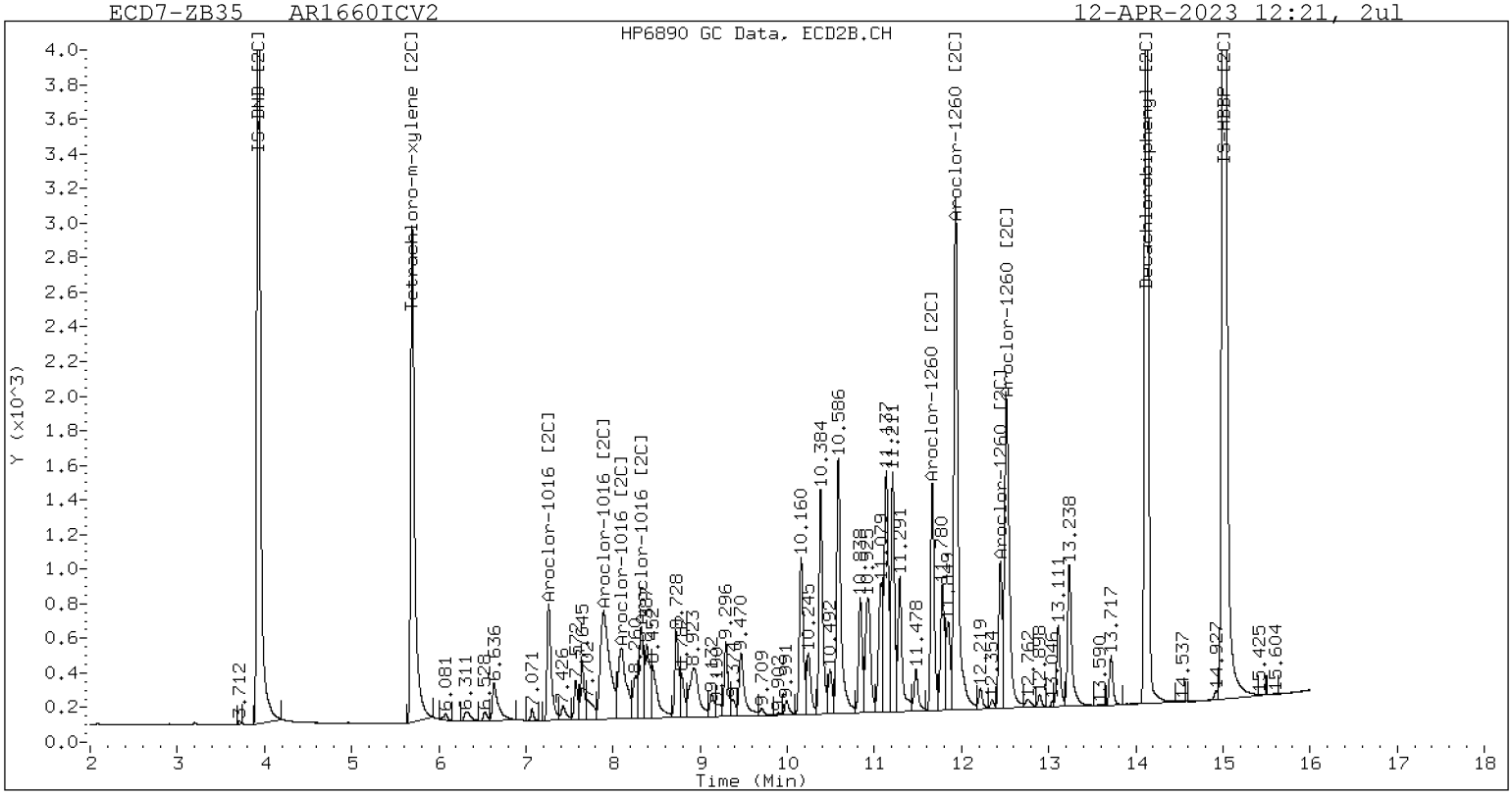
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660ICV2 12-APR-2023 12:21, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660ICV2 12-APR-2023 12:21, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	04132302ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLD0171	Injection Date:	04/13/23
Lab Sample ID:	SLD0171-ICV1	Injection Time:	09:33
Sequence Name:	AR1254ICV1		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Aroclor 1254	A	250.00	270	0.0662949	0.0718525		8.1	+/-20
Aroclor-1254 (1)	A	250.00	255	0.0803331	0.0820709			
Aroclor-1254 (2)	A	250.00	255	0.0361302	0.0368294			
Aroclor-1254 (3)	A	250.00	261	0.0516471	0.0539290			
Aroclor-1254 (4)	A	250.00	269	0.1004230	0.1080450			
Aroclor-1254 (5)	A	250.00	311	0.0629414	0.0783883			
Aroclor 1254 [2C]	A	250.00	262	0.0763106	0.0799159		4.8	+/-20
Aroclor-1254 (1) [2C]	A	250.00	264	0.0608052	0.0642368			
Aroclor-1254 (2) [2C]	A	250.00	255	0.0489162	0.0499223			
Aroclor-1254 (3) [2C]	A	250.00	257	0.1058376	0.1088451			
Aroclor-1254 (4) [2C]	A	250.00	263	0.1031750	0.1083796			
Aroclor-1254 (5) [2C]	A	250.00	271	0.0628191	0.0681956			
Decachlorobiphenyl	A	40.000	39.6	0.7878687	0.7793604		-1.0	+/-20
Tetrachlorometaxylene	A	40.000	37.9	1.1944880	1.1324570		-5.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	39.2	1.2182710	1.1934710		-2.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	39.5	1.1737210	1.1588570		-1.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230413.b/04132302ECD7.D
Data file 2: /230413.b/230413.b/04132302ECD7.D
Method: \\target\share\chem4\ecd7.i\230413.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254ICV1
Client ID:
Injection Date: 13-APR-2023 09:33
Report Date: 04/13/2023 11:15
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.808	0.002	325720	5.691	-0.002	192781	37.9	39.5	4.1	Tetrachloro-m-xylene
13.899	0.006	343281	14.122	-0.001	269824	39.6	39.2	1.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	575245	-14.6
Hexabromobiphenyl	1429847	880930	-38.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	332709	5.5
Hexabromobiphenyl	513946	452167	-12.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1254	1	9.308	0.010	147534	255.4	1	9.462	0.000	66788	264.1
Aroclor-1254	2	9.390	0.013	66206	254.8	2	9.983	0.000	51905	255.1
Aroclor-1254	3	9.682	0.014	96945	261.0	3	10.140	0.000	113168	257.1
Aroclor-1254	4	9.823	0.015	194226	269.0	4	10.386	0.000	112684	262.6
Aroclor-1254	5	10.200	0.024	140914	311.4	5	10.581	0.000	70904	271.4
		Total Col1Ave (5 peaks):			270.3		Total Col2Ave (5 peaks):			262.1 RPD = 3
		Corrected Ave (4 peaks):			260.1		Corrected Ave (4 peaks):			259.7 RPD = 0
			CalAmt %D:		8.1			CalAmt %D:		4.8

Total PCB Area Col1 (5.906 - 13.793) = 2011746 Col1 Total PCB = 0.3 ppm*

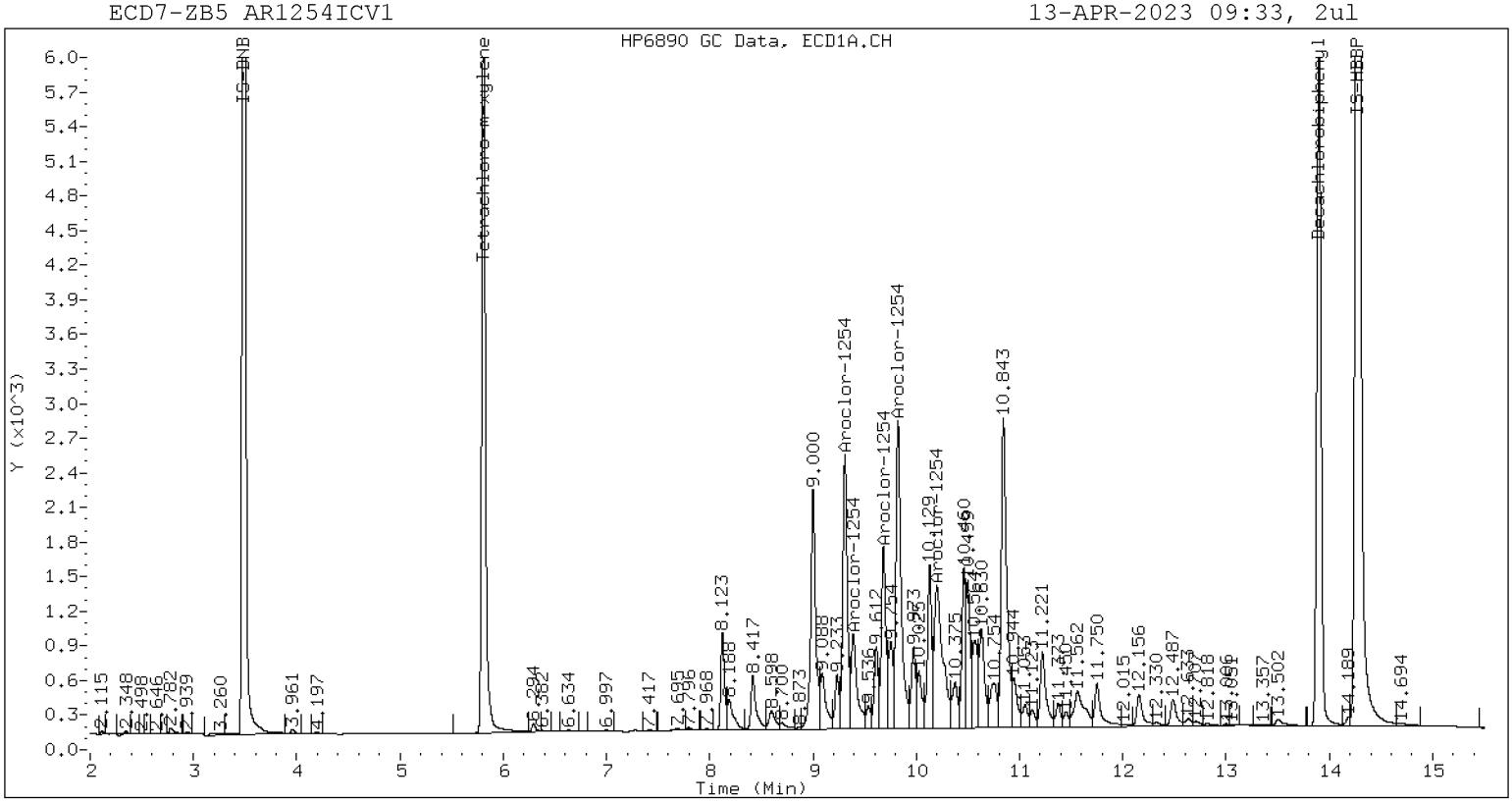
Total PCB Area Col2 (5.794 - 14.023) = 1114145 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

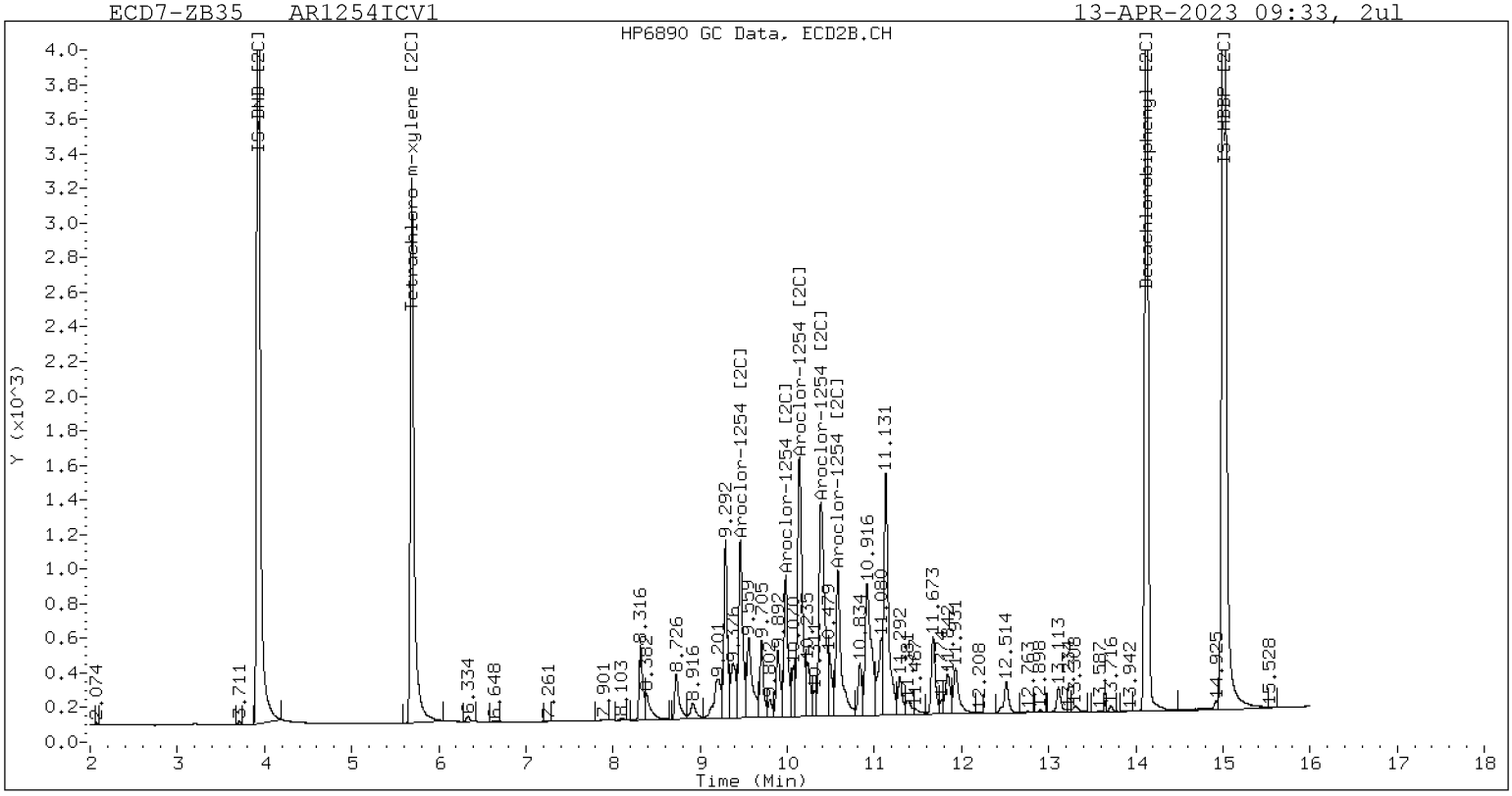
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254ICV1 13-APR-2023 09:33, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254ICV1 13-APR-2023 09:33, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	04132303ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLD0171	Injection Date:	04/13/23
Lab Sample ID:	SLD0171-ICV2	Injection Time:	09:54
Sequence Name:	AR1660ICV2		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Aroclor 1016	A	250.00	258	0.0493662	0.0504560		3.0	+/-20	
Aroclor-1016 (1)	A	250.00	250	0.0303852	0.0303885		0.0		
Aroclor-1016 (2)	A	250.00	243	0.0926308	0.0899041		-2.8		
Aroclor-1016 (3)	A	250.00	293	0.0452180	0.0529644		17.2		
Aroclor-1016 (4)	A	250.00	244	0.0292307	0.0285670		-2.4		
Aroclor 1016 [2C]	A	250.00	265	0.0545857	0.0573586		5.9	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	250	0.0468313	0.0468999		0.0		
Aroclor-1016 (2) [2C]	A	250.00	261	0.0949676	0.0990763		4.4		
Aroclor-1016 (3) [2C]	A	250.00	265	0.0428922	0.0454091		6.0		
Aroclor-1016 (4) [2C]	A	250.00	283	0.0336515	0.0380492		13.2		
Aroclor 1260	A	250.00	337	0.0392091	0.0526756		34.8	+/-20	*
Aroclor-1260 (1)	A	250.00	364	0.0287785	0.0418948		45.6		
Aroclor-1260 (2)	A	250.00	347	0.0300690	0.0416935		38.8		
Aroclor-1260 (3)	A	250.00	342	0.0797517	0.1092598		36.8		
Aroclor-1260 (4)	A	250.00	294	0.0401599	0.0471859		17.6		
Aroclor-1260 (5)	A	250.00	338	0.0172866	0.0233438		35.2		
Aroclor 1260 [2C]	A	250.00	275	0.0699688	0.0789647		10.1	+/-20	
Aroclor-1260 (1) [2C]	A	250.00	285	0.0470406	0.0536159		14.0		
Aroclor-1260 (2) [2C]	A	250.00	292	0.1200523	0.1403479		16.8		
Aroclor-1260 (3) [2C]	A	250.00	243	0.0318590	0.0309232		-2.8		
Aroclor-1260 (4) [2C]	A	250.00	281	0.0809231	0.0909718		12.4		
Decachlorobiphenyl	A	40.000	39.9	0.7878687	0.7863221		-0.3	+/-20	
Tetrachlorometaxylene	A	40.000	39.5	1.1944880	1.1802780		-1.3	+/-20	
Decachlorobiphenyl [2C]	A	40.000	39.4	1.2182710	1.1997680		-1.5	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	39.8	1.1737210	1.1682720		-0.5	+/-20	

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230413.b/04132303ECD7.D
Data file 2: /230413.b/230413.b/04132303ECD7.D
Method: \\target\share\chem4\ecd7.i\230413.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660ICV2
Client ID:
Injection Date: 13-APR-2023 09:54
Report Date: 04/13/2023 11:15
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.808	0.002	333517	5.693	-0.001	192464	39.5	39.8	0.7	Tetrachloro-m-xylene
13.898	0.005	358833	14.123	0.000	280627	39.9	39.4	1.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	565150	-16.1
Hexabromobiphenyl	1429847	912687	-36.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	329485	4.5
Hexabromobiphenyl	513946	467802	-9.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.273	0.003	53669	250.0	1	7.260	0.000	48290	250.4
Aroclor-1016	2	7.675	0.020	158779	242.6	2	7.883	0.000	102013	260.8
Aroclor-1016	3	7.803	0.013	93540	292.8	3	8.094	0.000	46755	264.7
Aroclor-1016	4	8.415	0.010	50452	244.3	4	8.318	0.000	39177	282.7
Total Col1Ave (4 peaks):					257.5	Total Col2Ave (4 peaks):				264.6 RPD = 3
Corrected Ave (3 peaks):					245.7	Corrected Ave (3 peaks):				258.6 RPD = 5
CalAmt %D:					3.0	CalAmt %D:				5.9
Aroclor-1260	1	11.054	0.010	119490	363.9	1	11.662	0.000	78380	284.9
Aroclor-1260	2	11.371	0.009	118916	346.6	2	11.931	0.000	205172	292.3
Aroclor-1260	3	11.747	0.013	311625	342.5	3	12.443	0.000	45206	242.7
Aroclor-1260	4	12.156	0.017	134581	293.7	4	12.514	0.000	132990	281.0
Aroclor-1260	5	12.252	0.008	66580	337.6	NS	---			----
Total Col1Ave (5 peaks):					336.9	Total Col2Ave (4 peaks):				275.2 RPD = 20
Corrected Ave (4 peaks):					330.1	Corrected Ave (3 peaks):				269.5 RPD = 20
CalAmt %D:					34.8	CalAmt %D:				10.1

Total PCB Area Col1 (5.906 - 13.793) = 3337905 Col1 Total PCB = 0.5 ppm*

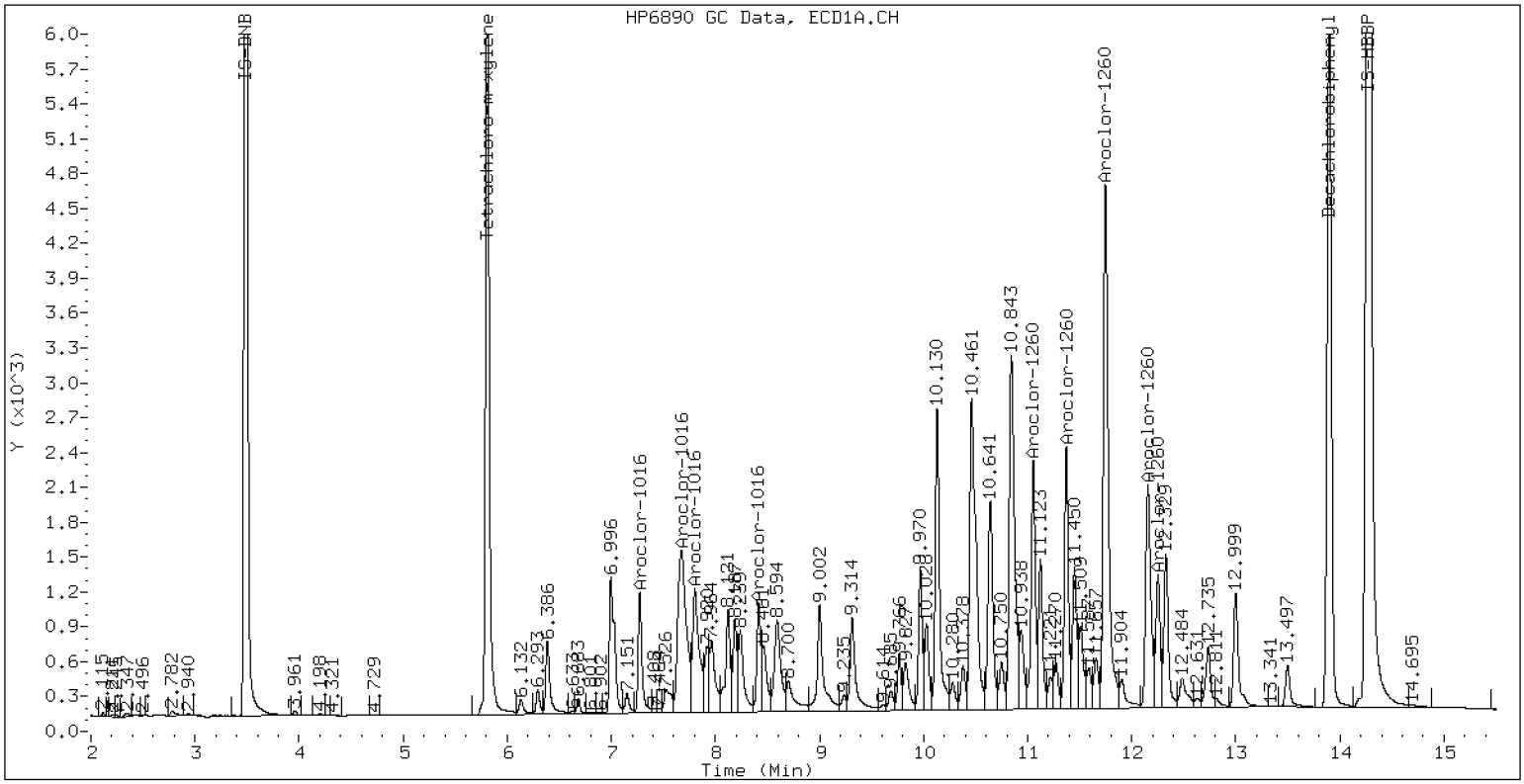
Total PCB Area Col2 (5.794 - 14.023) = 1959062 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

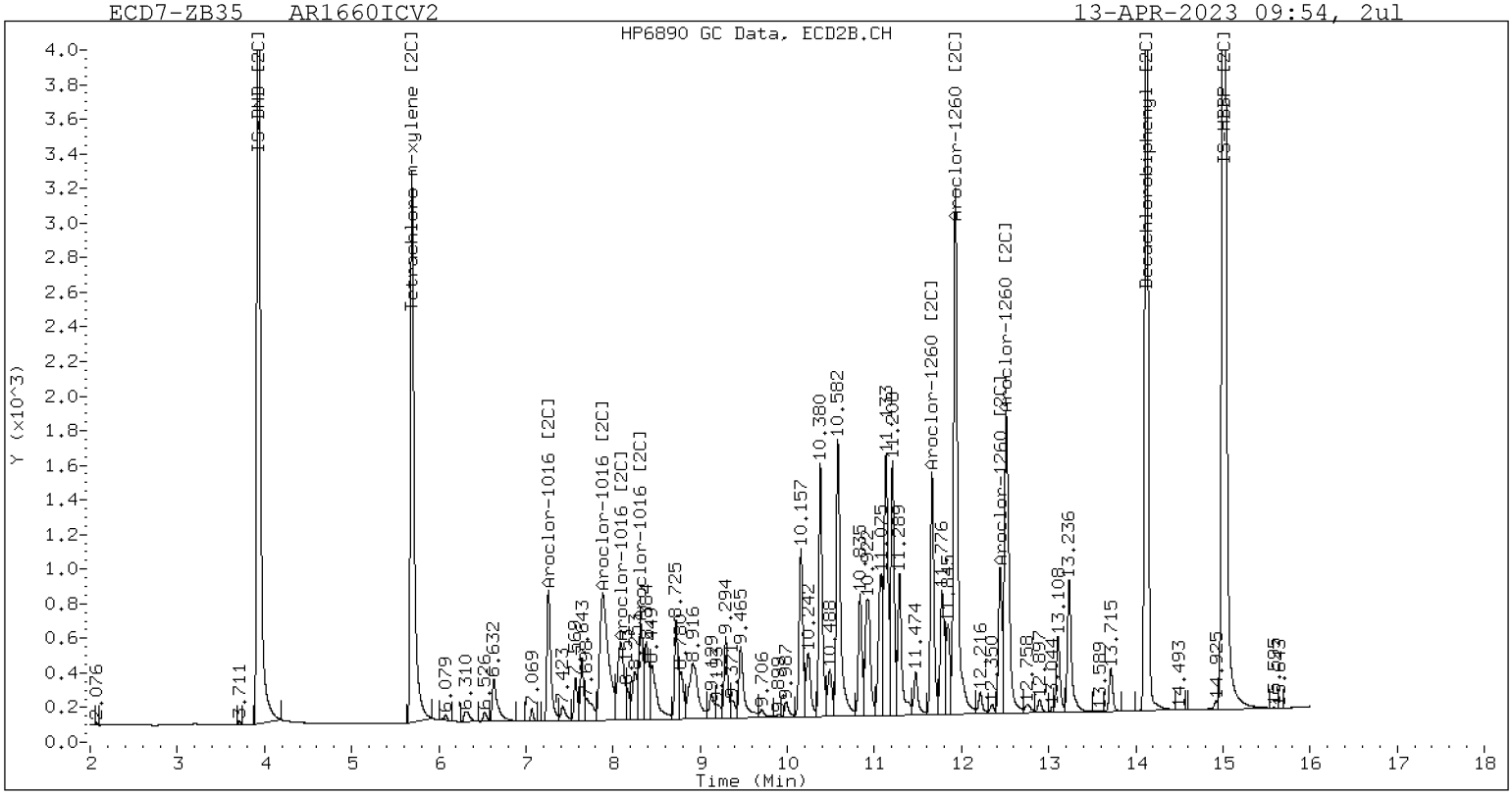
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660ICV2 13-APR-2023 09:54, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660ICV2 13-APR-2023 09:54, 2ul

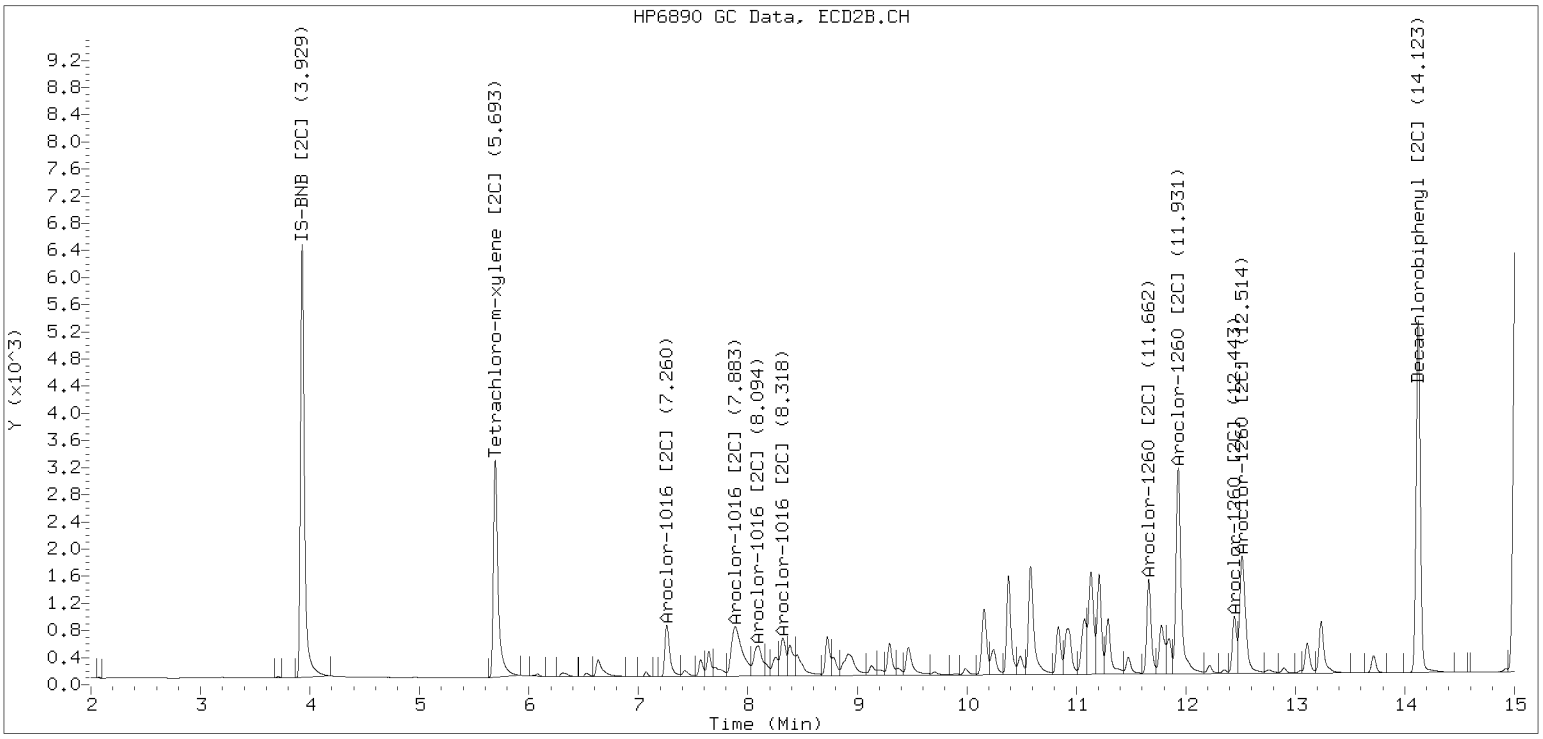


ZB-35 Manual Integration: YES

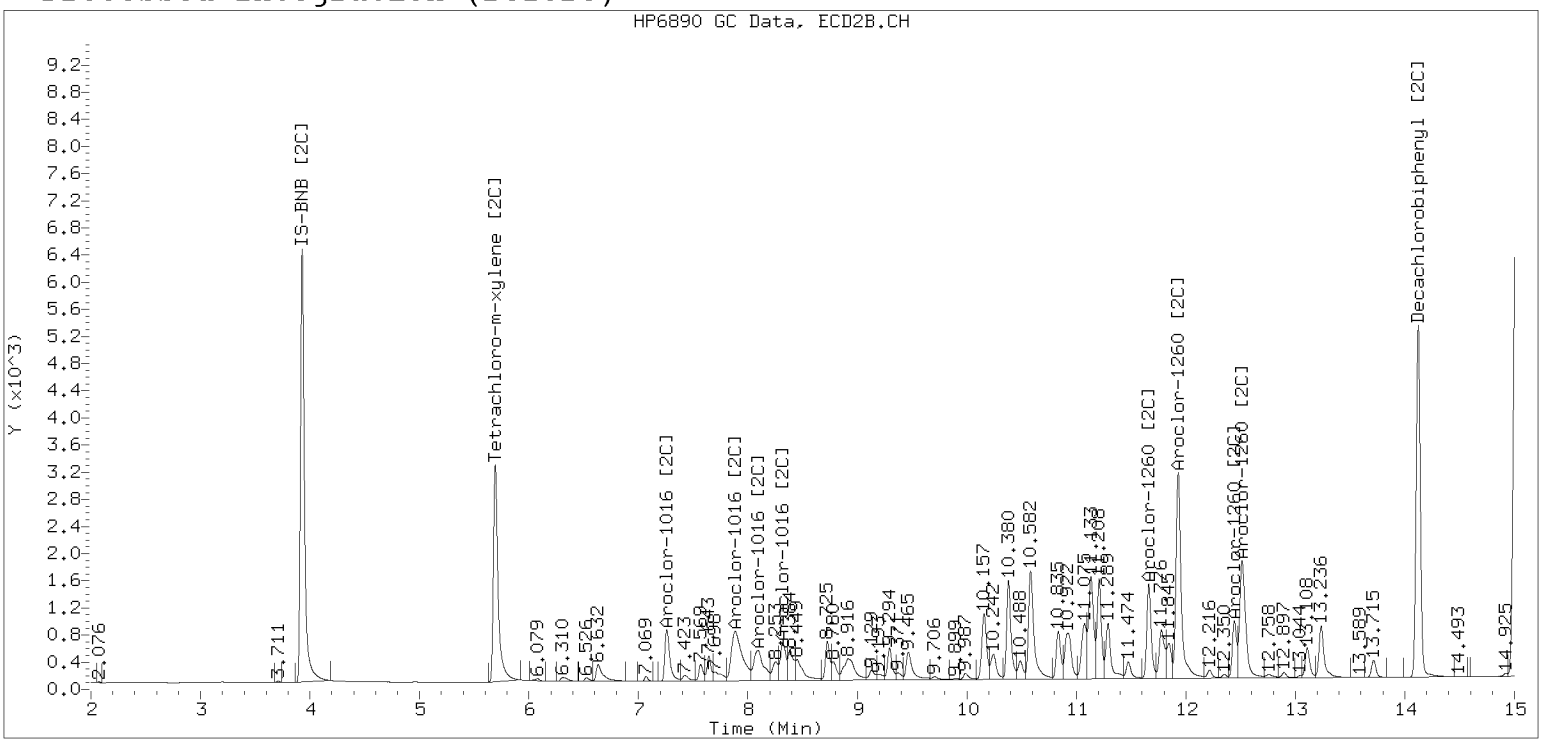
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230413.b/230413.b/04132303ECD7.D Injection Date: 13-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	02242313ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLB0342	Injection Date:	02/24/23
Lab Sample ID:	SLB0342-SCV1	Injection Time:	15:03
Sequence Name:	AR1660SCV1		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	243	0.0493662	0.0479314		-2.7	+/-20
Aroclor 1016 [2C]	A	250.00	246	0.0545857	0.0542382		-1.4	+/-20
Aroclor 1260	A	250.00	266	0.0392091	0.0412121		6.2	+/-20
Aroclor 1260 [2C]	A	250.00	261	0.0699688	0.0733659		4.5	+/-20
Decachlorobiphenyl	A	40.000	34.3	0.7878687	0.6762784		-14.2	+/-20
Tetrachlorometaxylene	A	40.000	34.9	1.1944880	1.0436010		-12.6	+/-20
Decachlorobiphenyl [2C]	A	40.000	37.3	1.2182710	1.1373730		-6.6	+/-20
Tetrachlorometaxylene [2C]	A	40.000	35.8	1.1737210	1.0492890		-10.6	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	02242314ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLB0342	Injection Date:	02/24/23
Lab Sample ID:	SLB0342-SCV2	Injection Time:	15:24
Sequence Name:	AR1242SCV2		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	204	0.0395340	0.0322254		-18.5	+/-20
Aroclor 1242 [2C]	A	250.00	221	0.0423092	0.0365983		-11.8	+/-20
Decachlorobiphenyl	A	40.000	37.0	0.7878687	0.7290534		-7.5	+/-20
Tetrachlorometaxylene	A	40.000	33.6	1.1944880	1.0041320		-15.9	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.3	1.2182710	1.2285170		0.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	34.5	1.1737210	1.0131510		-13.7	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	02242315ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLB0342	Injection Date:	02/24/23
Lab Sample ID:	SLB0342-SCV3	Injection Time:	15:45
Sequence Name:	AR1248SCV3		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	249	0.0574755	0.0572474		-0.2	+/-20
Aroclor 1248 [2C]	A	250.00	248	0.0444270	0.0440936		-0.8	+/-20
Decachlorobiphenyl	A	40.000	33.1	0.7878687	0.6527336		-17.2	+/-20
Tetrachlorometaxylene	A	40.000	34.9	1.1944880	1.0413820		-12.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	36.3	1.2182710	1.1066400		-9.2	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.4	1.1737210	1.0676190		-9.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	02242316ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLB0342	Injection Date:	02/24/23
Lab Sample ID:	SLB0342-SCV4	Injection Time:	16:06
Sequence Name:	AR1254SCV4		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	235	0.0662949	0.0622529		-5.9	+/-20
Aroclor 1254 [2C]	A	250.00	240	0.0763106	0.0731447		-4.0	+/-20
Decachlorobiphenyl	A	40.000	34.6	0.7878687	0.6823832		-13.4	+/-20
Tetrachlorometaxylene	A	40.000	36.1	1.1944880	1.0787610		-9.7	+/-20
Decachlorobiphenyl [2C]	A	40.000	37.9	1.2182710	1.1548440		-5.2	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.1	1.1737210	1.0880920		-7.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	02242317ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLB0342	Injection Date:	02/24/23
Lab Sample ID:	SLB0342-SCV5	Injection Time:	16:27
Sequence Name:	AR2162SCV5		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1221	A	250.00	258	0.0165758	0.0169561		3.3	+/-20
Aroclor 1221 [2C]	A	250.00	256	0.0150798	0.0153801		2.5	+/-20
Aroclor 1262	A	250.00	247	0.0366596	0.0361658		-1.2	+/-20
Aroclor 1262 [2C]	A	250.00	249	0.0739760	0.0737876		-0.3	+/-20
Decachlorobiphenyl	A	40.000	34.4	0.7878687	0.6780614		-13.9	+/-20
Tetrachlorometaxylene	A	40.000	36.0	1.1944880	1.0756080		-10.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	37.9	1.2182710	1.1528740		-5.4	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.6	1.1737210	1.0753820		-8.4	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	02242318ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLB0342	Injection Date:	02/24/23
Lab Sample ID:	SLB0342-SCV6	Injection Time:	16:48
Sequence Name:	AR3268SCV6		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1232	A	250.00	245	0.0169039	0.0169981		-2.0	+/-20
Aroclor 1232 [2C]	A	250.00	259	0.0192023	0.0199392		3.4	+/-20
Aroclor 1268	A	250.00	246	0.1442124	0.1418626		-1.4	+/-20
Aroclor 1268 [2C]	A	250.00	249	0.2386862	0.2369075		-0.6	+/-20
Decachlorobiphenyl	A	40.000	51.3	0.7878687	1.0108790		28.3	+/-20
Tetrachlorometaxylene	A	40.000	37.1	1.1944880	1.1067180		-7.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	56.4	1.2182710	1.7182840		41.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	38.2	1.1737210	1.1196760		-4.6	+/-20

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	04122322ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLD0150	Injection Date:	04/12/23
Lab Sample ID:	SLD0150-CCV1	Injection Time:	16:10
Sequence Name:	AR1248CCV1		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	255	0.0574755	0.0610109		1.8	
Aroclor-1248 (1)	A	250.00	209		0.0326173			
Aroclor-1248 (2)	A	250.00	203		0.0403535			
Aroclor-1248 (3)	A	250.00	302		0.1131700			
Aroclor-1248 (4)	A	250.00	304		0.0579030			
Aroclor 1248 [2C]	A	250.00	197	0.0444270	0.0344373		-21.1	
Aroclor-1248 (1) [2C]	A	250.00	223		0.0340687			
Aroclor-1248 (2) [2C]	A	250.00	203		0.0320396			
Aroclor-1248 (3) [2C]	A	250.00	208		0.0378290			
Aroclor-1248 (4) [2C]	A	250.00	155		0.0338116			
Decachlorobiphenyl	A	40.000	39.8	0.7878687	0.7846189		-0.5	
Tetrachlorometaxylene	A	40.000	37.5	1.1944880	1.1209930		-6.3	
Decachlorobiphenyl [2C]	A	40.000	40.9	1.2182710	1.2462940		2.3	
Tetrachlorometaxylene [2C]	A	40.000	36.3	1.1737210	1.0651930		-9.3	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230412.b/04122322ECD7.D
Data file 2: /230412.b/230412.b/04122322ECD7.D
Method: \\target\share\chem4\ecd7.i\230412.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV1
Client ID:
Injection Date: 12-APR-2023 16:10
Report Date: 04/12/2023 16:30
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.808	-0.003	276660	5.692	0.000	183609	37.5	36.3	3.4	Tetrachloro-m-xylene
13.897	-0.002	154087	14.121	0.000	174169	39.8	40.9	2.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	493598	-26.7
Hexabromobiphenyl	1429847	392769	-72.5 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	344743	9.4
Hexabromobiphenyl	513946	279499	-45.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.413	-0.006	50312	208.9	1	8.316	0.000	36703	223.0
Aroclor-1248	2	8.591	-0.008	62245	203.3	2	8.723	0.000	34517	202.8
Aroclor-1248	3	8.997	-0.004	174564	302.3	3	9.189	0.000	40754	208.1
Aroclor-1248	4	9.304	-0.007	89315	303.8	4	9.617	0.000	36426	154.9
Total Col1Ave (4 peaks):					254.6	Total Col2Ave (4 peaks):				197.2 RPD = 25
Corrected Ave (3 peaks):					238.2	Corrected Ave (3 peaks):				188.6 RPD = 23
CalAmt %D:					1.8	CalAmt %D:				-21.1

Total PCB Area Col1 (5.911 - 13.799) = 1017783 Col1 Total PCB = 0.2 ppm*

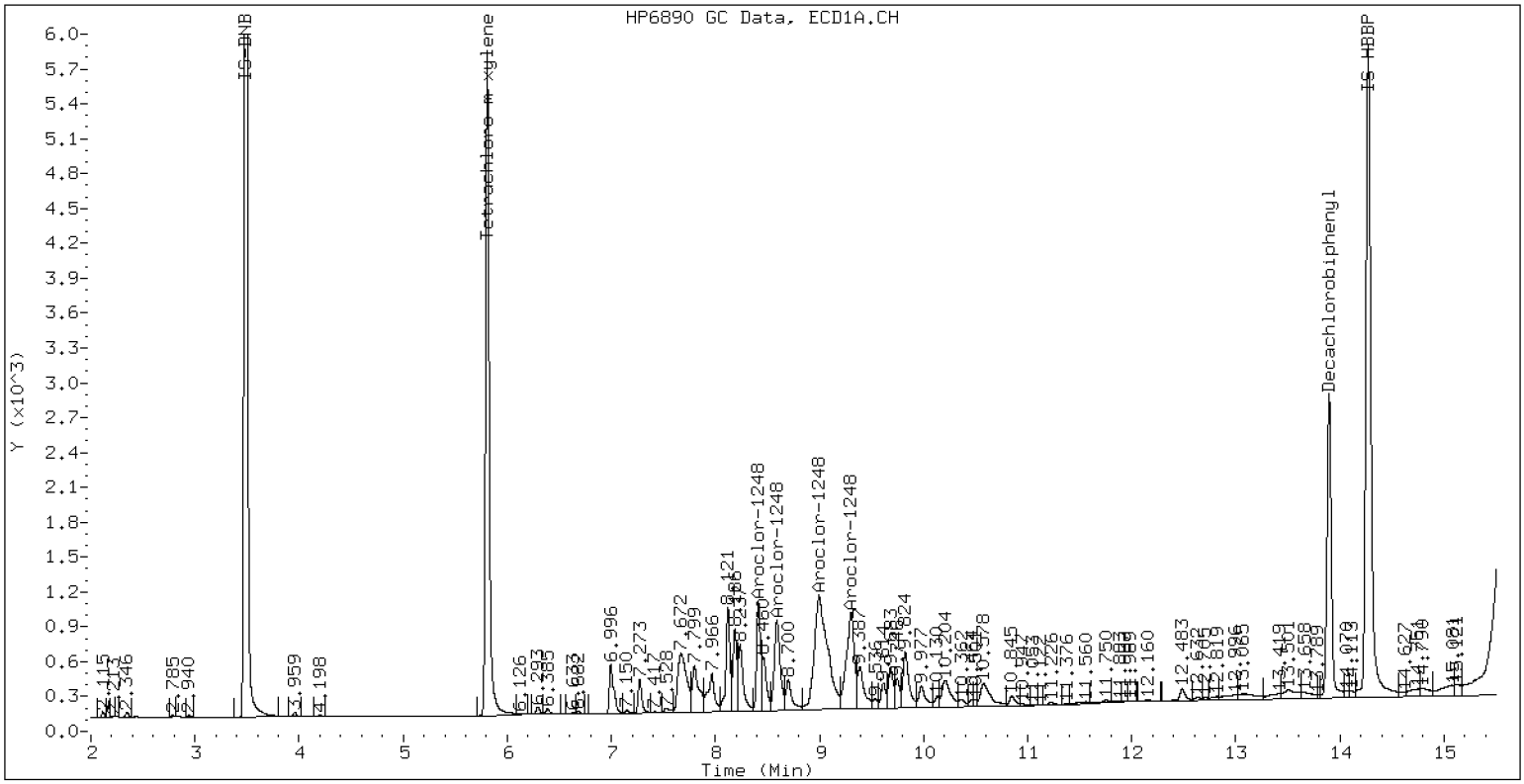
Total PCB Area Col2 (5.792 - 14.021) = 688610 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

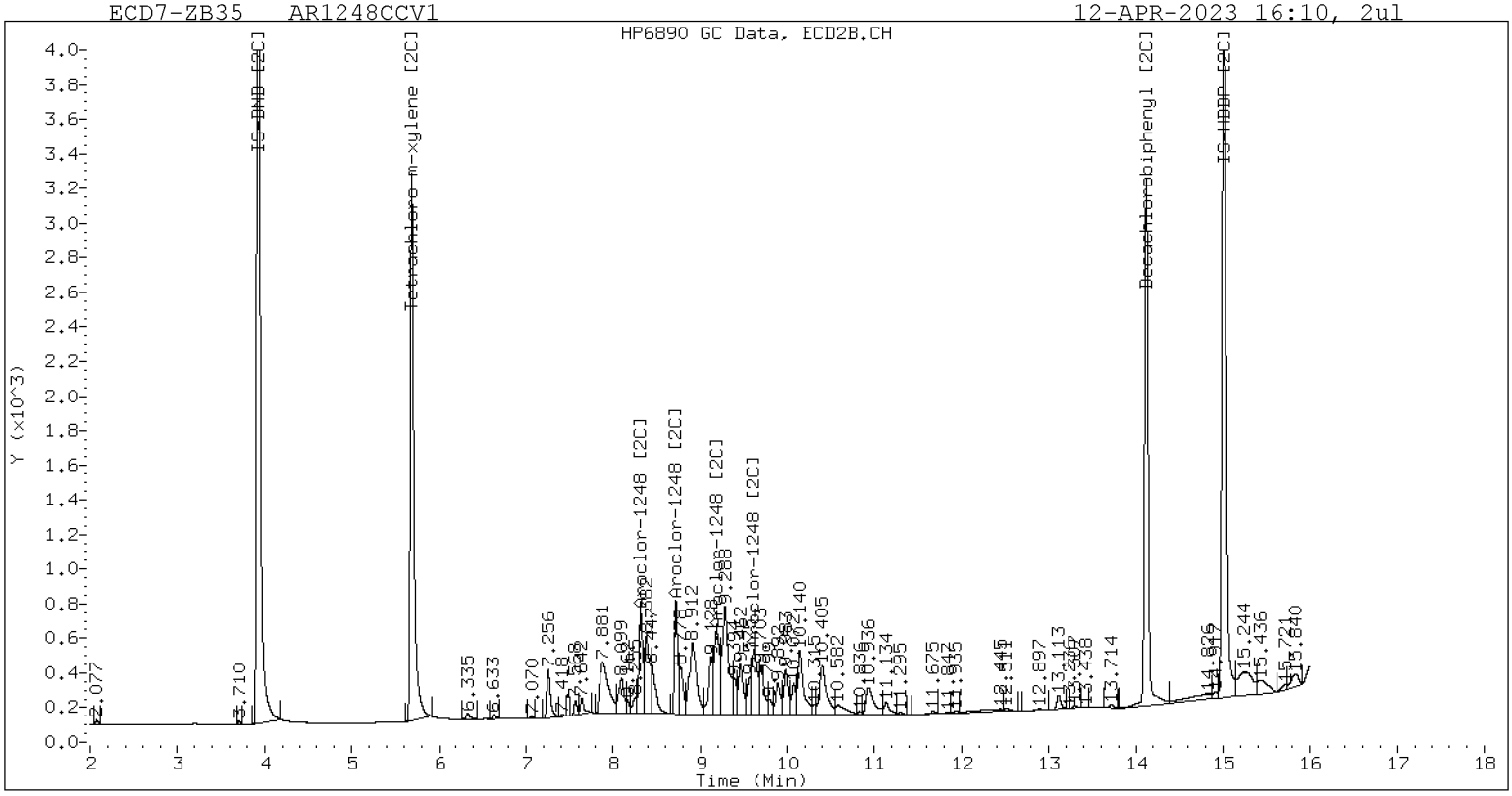
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV1 12-APR-2023 16:10, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV1 12-APR-2023 16:10, 2ul

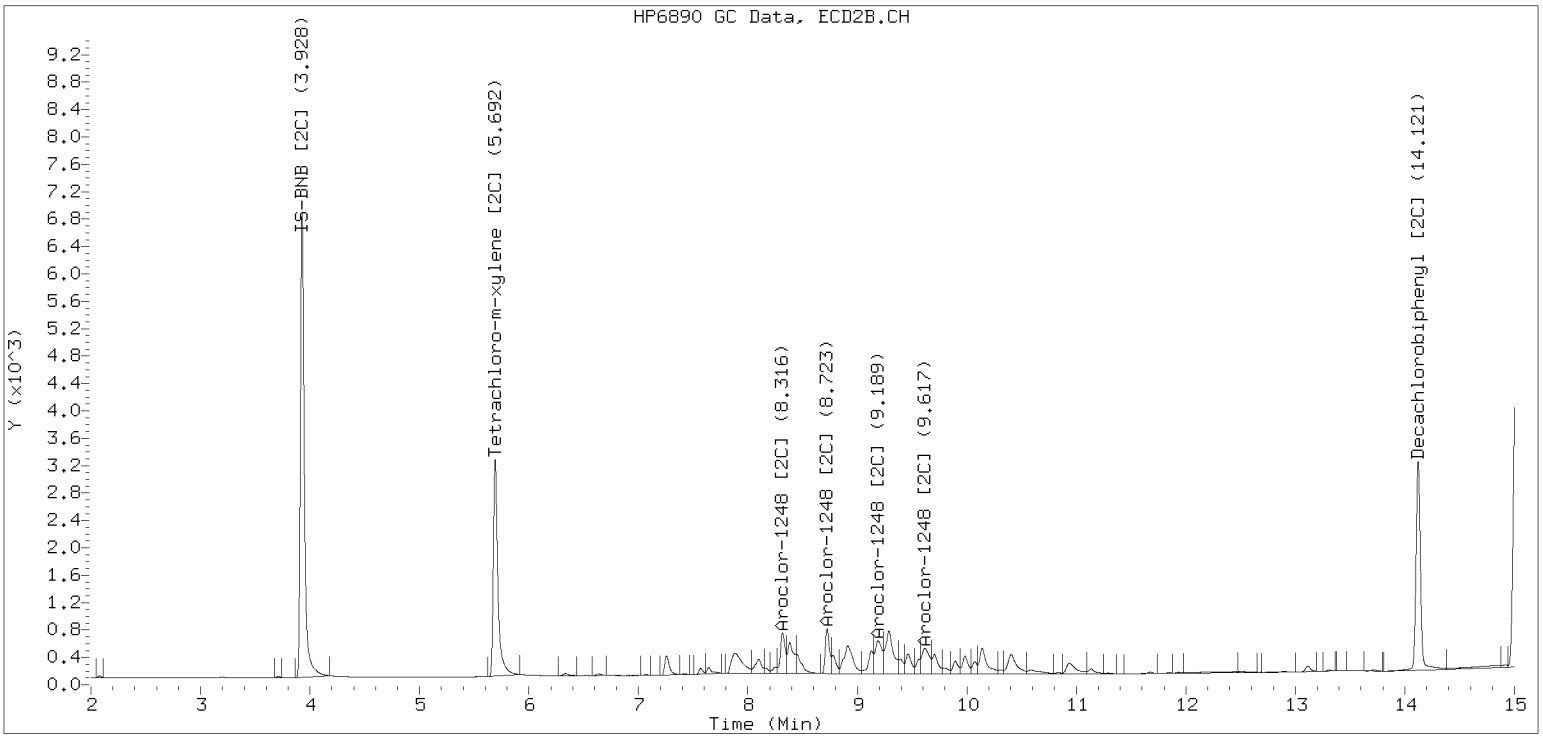


ZB-35 Manual Integration: YES

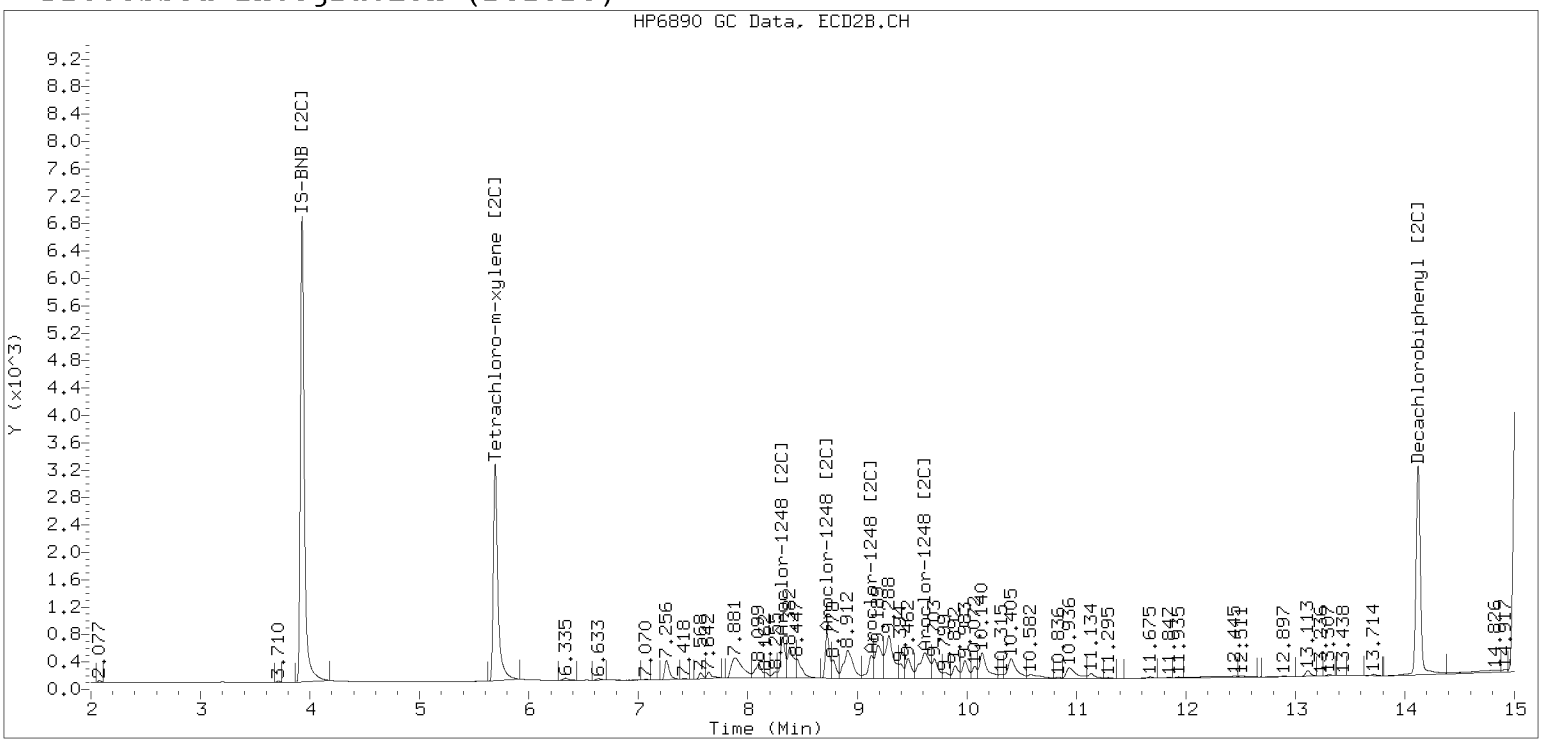
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230412.b/230412.b/04122322ECD7.D Injection Date: 12-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	04122323ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLD0150	Injection Date:	04/12/23
Lab Sample ID:	SLD0150-CCV2	Injection Time:	16:31
Sequence Name:	AR1660CCV2		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	250	0.0493662	0.0487365		-0.1	
Aroclor-1016 (1)	A	250.00	252	0.0303852	0.0305742		0.8	
Aroclor-1016 (2)	A	250.00	233	0.0926308	0.0865057		-6.8	
Aroclor-1016 (3)	A	250.00	278	0.0452180	0.0502365		11.2	
Aroclor-1016 (4)	A	250.00	236	0.0292307	0.0276297		-5.6	
Aroclor 1016 [2C]	A	250.00	254	0.0545857	0.0545602		1.6	
Aroclor-1016 (1) [2C]	A	250.00	231	0.0468313	0.0431990		-7.6	
Aroclor-1016 (2) [2C]	A	250.00	240	0.0949676	0.0911049		-4.0	
Aroclor-1016 (3) [2C]	A	250.00	286	0.0428922	0.0490232		14.4	
Aroclor-1016 (4) [2C]	A	250.00	259	0.0336515	0.0349138		3.6	
Aroclor 1260	A	250.00	420	0.0392091	0.0652416		67.9	
Aroclor-1260 (1)	A	250.00	502	0.0287785	0.0578497		101	
Aroclor-1260 (2)	A	250.00	457	0.0300690	0.0549403		82.8	
Aroclor-1260 (3)	A	250.00	404	0.0797517	0.1289833		61.6	
Aroclor-1260 (4)	A	250.00	366	0.0401599	0.0588141		46.4	
Aroclor-1260 (5)	A	250.00	370	0.0172866	0.0256205		48.0	
Aroclor 1260 [2C]	A	250.00	297	0.0699688	0.0842528		18.6	
Aroclor-1260 (1) [2C]	A	250.00	311	0.0470406	0.0584663		24.4	
Aroclor-1260 (2) [2C]	A	250.00	306	0.1200523	0.1470282		22.4	
Aroclor-1260 (3) [2C]	A	250.00	268	0.0318590	0.0341089		7.2	
Aroclor-1260 (4) [2C]	A	250.00	301	0.0809231	0.0974078		20.4	
Decachlorobiphenyl	A	40.000	42.0	0.7878687	0.8279289		5.0	
Tetrachlorometaxylene	A	40.000	39.4	1.1944880	1.1757120		-1.5	
Decachlorobiphenyl [2C]	A	40.000	41.5	1.2182710	1.2641020		3.8	
Tetrachlorometaxylene [2C]	A	40.000	37.3	1.1737210	1.0934890		-6.8	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230412.b/04122323ECD7.D
Data file 2: /230412.b/230412.b/04122323ECD7.D
Method: \\target\share\chem4\ecd7.i\230412.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV2
Client ID:
Injection Date: 12-APR-2023 16:31
Report Date: 04/12/2023 16:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.808	-0.003	301415	5.692	0.000	190243	39.4	37.3	5.5	Tetrachloro-m-xylene
13.897	-0.002	193689	14.123	0.001	196748	42.0	41.5	1.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	512736	-23.9
Hexabromobiphenyl	1429847	467888	-67.3 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	347956	10.4
Hexabromobiphenyl	513946	311285	-39.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.273	-0.003	48989	251.6	1	7.259	-0.002	46973	230.6
Aroclor-1016	2	7.672	-0.009	138608	233.5	2	7.882	-0.011	99064	239.8
Aroclor-1016	3	7.802	-0.006	80494	277.7	3	8.092	-0.006	53306	285.7
Aroclor-1016	4	8.414	-0.004	44271	236.3	4	8.319	-0.004	37964	259.4
Total Col1Ave (4 peaks):					249.8	Total Col2Ave (4 peaks):				253.9 RPD = 2
Corrected Ave (3 peaks):					240.4	Corrected Ave (3 peaks):				243.3 RPD = 1
CalAmt %D:					-0.1	CalAmt %D:				1.6
Aroclor-1260	1	11.053	-0.003	84585	502.5	1	11.661	-0.003	56874	310.7
Aroclor-1260	2	11.370	-0.003	80331	456.8	2	11.929	-0.004	143024	306.2
Aroclor-1260	3	11.747	-0.004	188593	404.3	3	12.443	-0.002	33180	267.7
Aroclor-1260	4	12.152	-0.007	85995	366.1	4	12.513	-0.004	94755	300.9
Aroclor-1260	5	12.252	-0.003	37461	370.5	NS	---			----
Total Col1Ave (5 peaks):					420.1	Total Col2Ave (4 peaks):				296.4 RPD = 35
Corrected Ave (4 peaks):					399.4	Corrected Ave (3 peaks):				291.6 RPD = 31
CalAmt %D:					68.0	CalAmt %D:				18.5

Total PCB Area Col1 (5.911 - 13.799) = 2391593 Col1 Total PCB = 0.4 ppm*

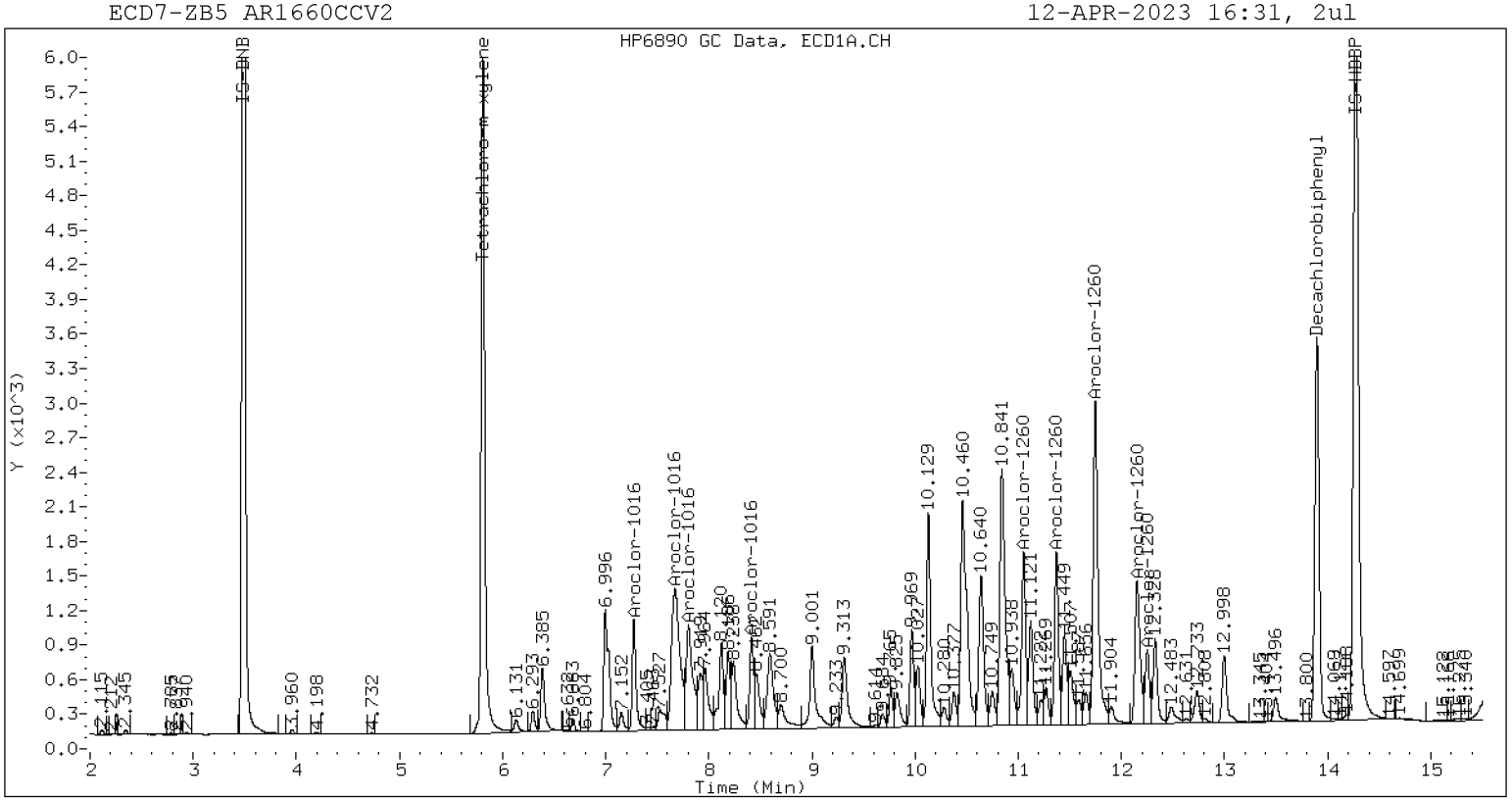
Total PCB Area Col2 (5.792 - 14.021) = 1611143 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

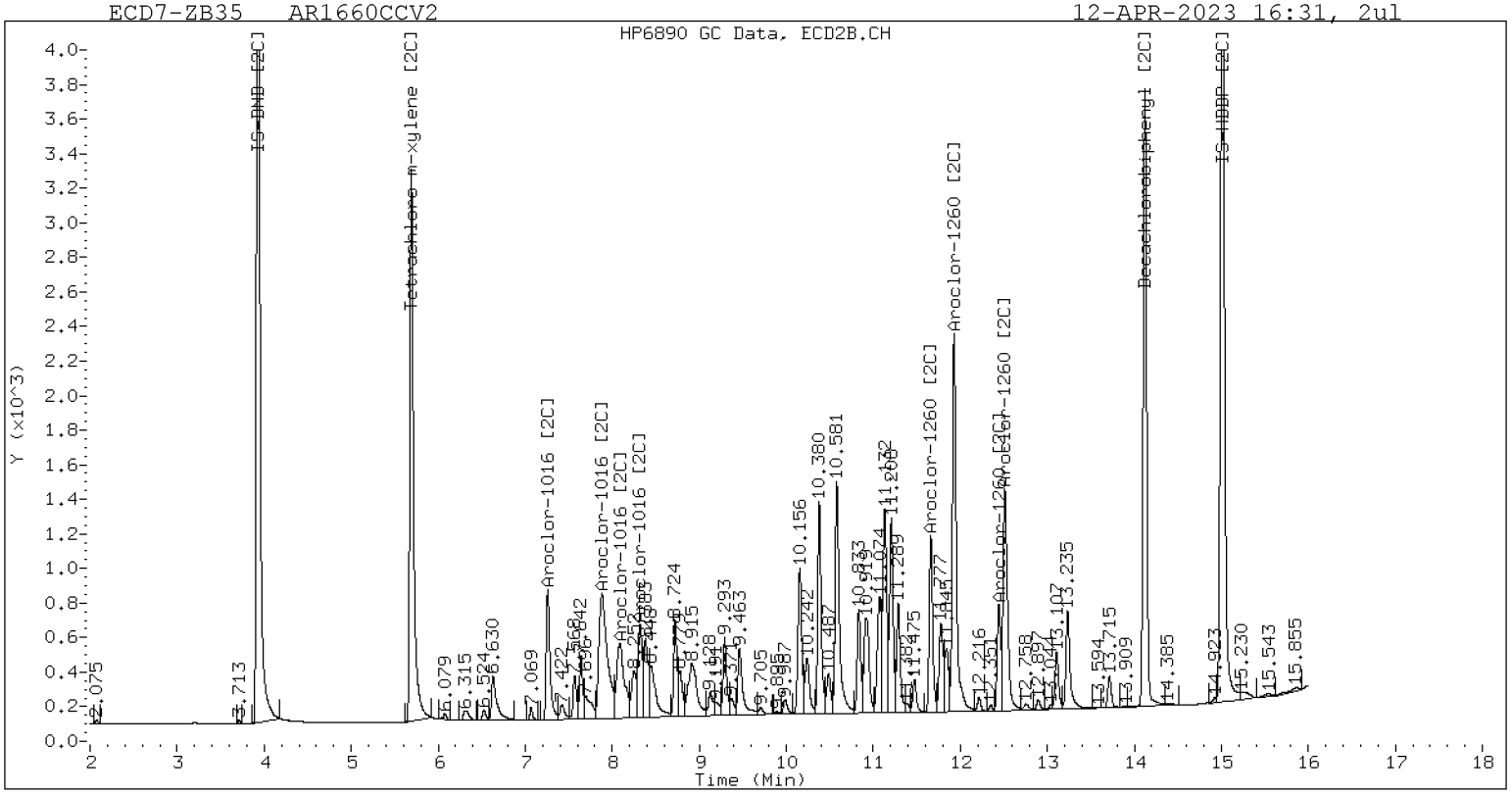
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV2 12-APR-2023 16:31, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV2 12-APR-2023 16:31, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	04122334ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLD0150	Injection Date:	04/12/23
Lab Sample ID:	SLD0150-CCV3	Injection Time:	20:19
Sequence Name:	AR1242CCV3		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	241	0.0395340	0.0373593		-3.6	
Aroclor-1242 (1)	A	250.00	254		0.0251782			
Aroclor-1242 (2)	A	250.00	225		0.0679005			
Aroclor-1242 (3)	A	250.00	242		0.0226725			
Aroclor-1242 (4)	A	250.00	243		0.0336859			
Aroclor 1242 [2C]	A	250.00	234	0.0423092	0.0393655		-6.5	
Aroclor-1242 (1) [2C]	A	250.00	239		0.0355437			
Aroclor-1242 (2) [2C]	A	250.00	231		0.0721314			
Aroclor-1242 (3) [2C]	A	250.00	249		0.0241791			
Aroclor-1242 (4) [2C]	A	250.00	216		0.0256080			
Decachlorobiphenyl	A	40.000	38.7	0.7878687	0.7614940		-3.3	
Tetrachlorometaxylene	A	40.000	46.5	1.1944880	1.3880860		16.3	
Decachlorobiphenyl [2C]	A	40.000	36.7	1.2182710	1.1189540		-8.3	
Tetrachlorometaxylene [2C]	A	40.000	44.2	1.1737210	1.2958990		10.5	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230412.b/04122334ECD7.D
Data file 2: /230412.b/230412.b/04122334ECD7.D
Method: \\target\share\chem4\ecd7.i\230412.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV3
Client ID:
Injection Date: 12-APR-2023 20:19
Report Date: 04/13/2023 09:58
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	-0.002	377243	5.693	0.001	227821	46.5	44.2	5.1	Tetrachloro-m-xylene
13.899	-0.000	365583	14.125	0.002	278294	38.7	36.7	5.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	543544	-19.3
Hexabromobiphenyl	1429847	960173	-32.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	351603	11.5
Hexabromobiphenyl	513946	497418	-3.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.273	-0.002	42767	253.9	1	7.260	0.000	39054	239.1
Aroclor-1242	2	7.680	-0.006	115334	225.5	2	7.890	0.000	79255	230.8
Aroclor-1242	3	8.419	0.000	38511	242.0	3	9.207	0.000	26567	248.6
Aroclor-1242	4	8.597	-0.003	57218	243.2	4	9.636	0.000	28137	216.1
Total Col1Ave (4 peaks):					241.1	Total Col2Ave (4 peaks):				233.7 RPD = 3
Corrected Ave (3 peaks):					236.9	Corrected Ave (3 peaks):				228.7 RPD = 4
CalAmt %D:					-3.5	CalAmt %D:				-6.5

Total PCB Area Col1 (5.911 - 13.799) = 1044847 Col1 Total PCB = 0.2 ppm*

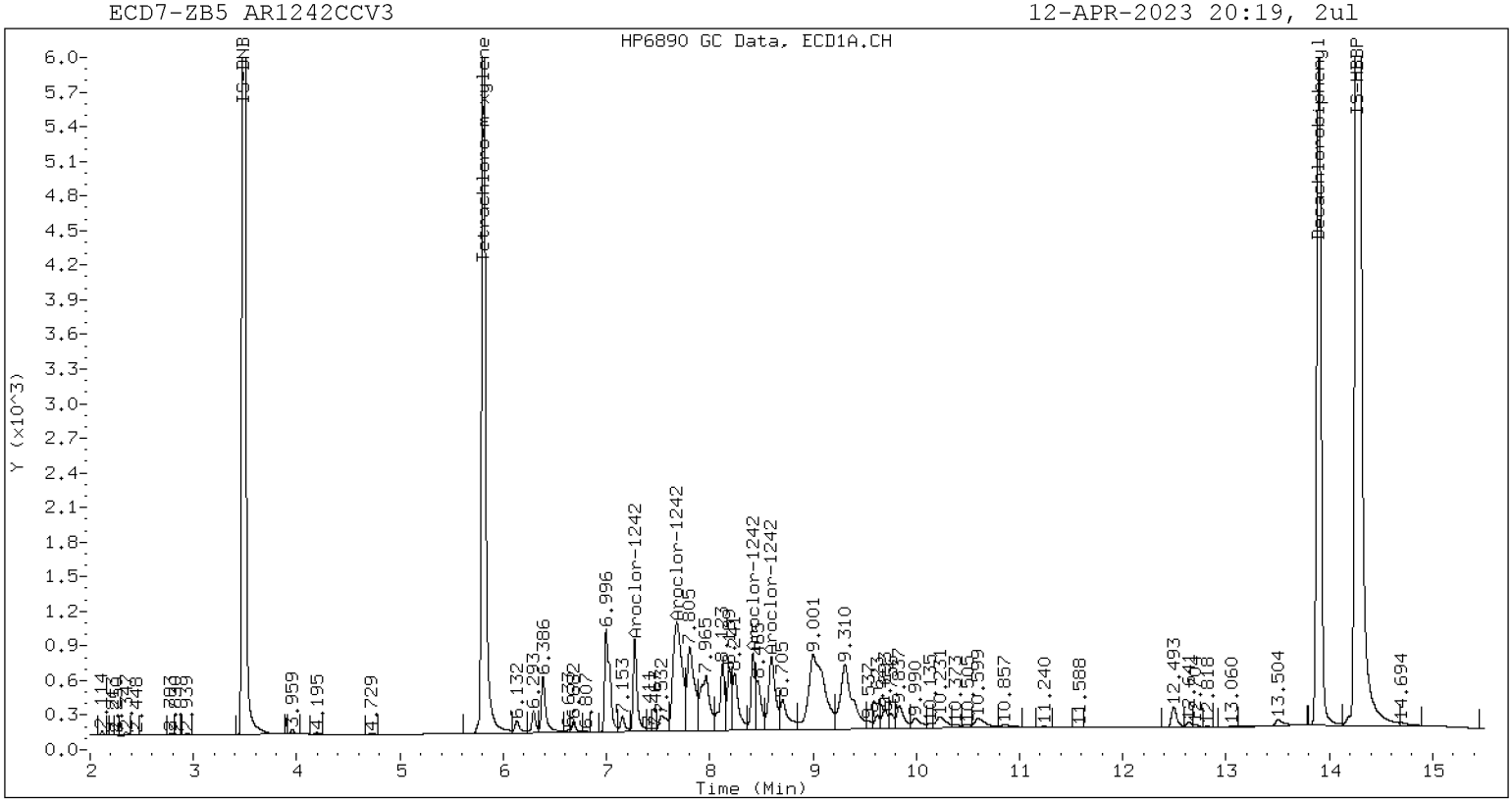
Total PCB Area Col2 (5.793 - 14.023) = 613558 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

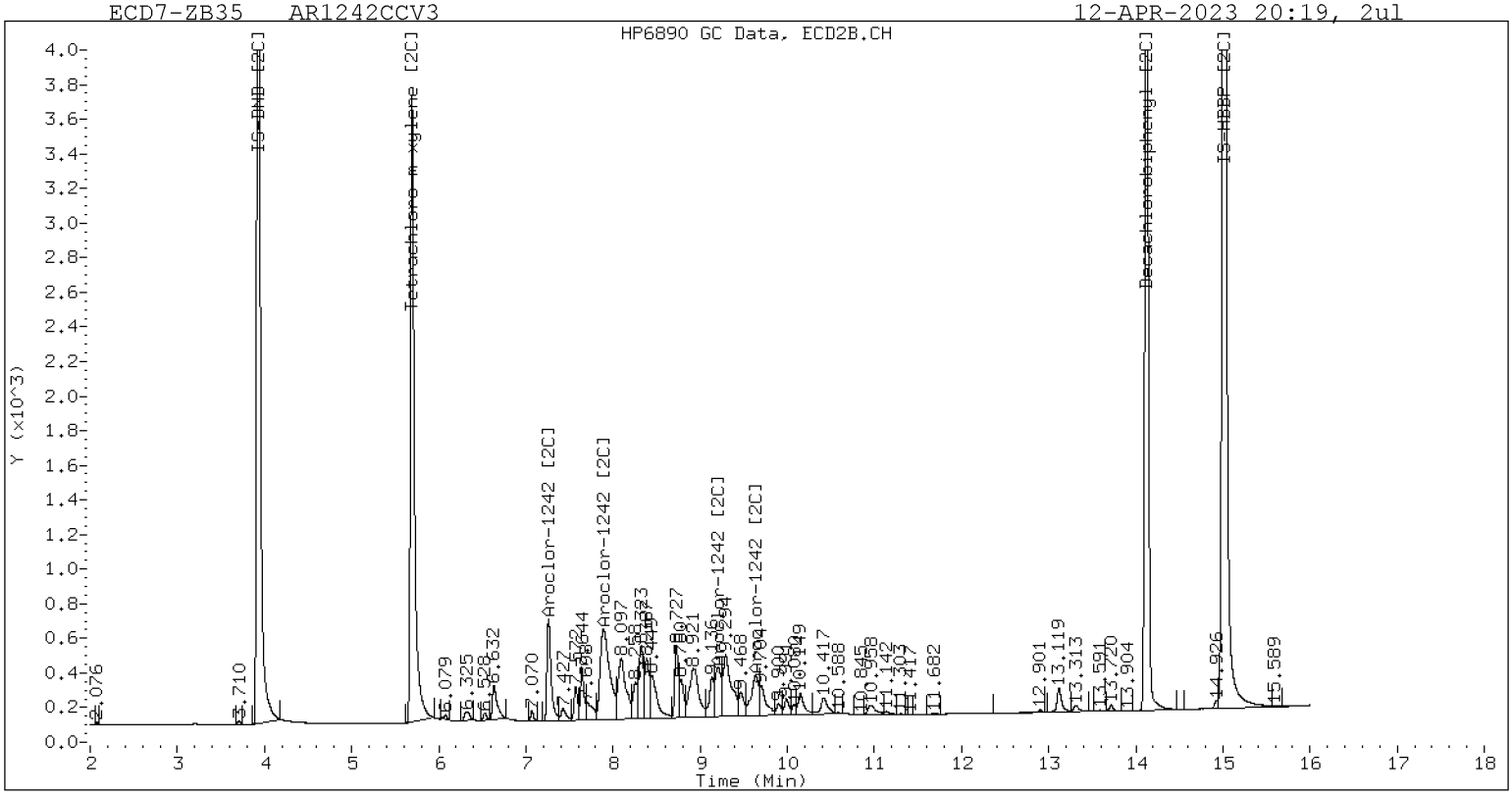
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV3 12-APR-2023 20:19, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242CCV3 12-APR-2023 20:19, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	04122335ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLD0150	Injection Date:	04/12/23
Lab Sample ID:	SLD0150-CCV4	Injection Time:	20:40
Sequence Name:	AR1660CCV4		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	263	0.0493662	0.0507544		5.3	
Aroclor-1016 (1)	A	250.00	265	0.0303852	0.0322437		6.0	
Aroclor-1016 (2)	A	250.00	235	0.0926308	0.0870919		-6.0	
Aroclor-1016 (3)	A	250.00	297	0.0452180	0.0537296		18.8	
Aroclor-1016 (4)	A	250.00	256	0.0292307	0.0299524		2.4	
Aroclor 1016 [2C]	A	250.00	259	0.0545857	0.0552232		3.7	
Aroclor-1016 (1) [2C]	A	250.00	232	0.0468313	0.0434604		-7.2	
Aroclor-1016 (2) [2C]	A	250.00	238	0.0949676	0.0902623		-4.8	
Aroclor-1016 (3) [2C]	A	250.00	295	0.0428922	0.0505605		18.0	
Aroclor-1016 (4) [2C]	A	250.00	272	0.0336515	0.0366098		8.8	
Aroclor 1260	A	250.00	300	0.0392091	0.0468582		20.0	
Aroclor-1260 (1)	A	250.00	330	0.0287785	0.0380366		32.0	
Aroclor-1260 (2)	A	250.00	314	0.0300690	0.0377459		25.6	
Aroclor-1260 (3)	A	250.00	298	0.0797517	0.0949396		19.2	
Aroclor-1260 (4)	A	250.00	272	0.0401599	0.0437631		8.8	
Aroclor-1260 (5)	A	250.00	286	0.0172866	0.0198060		14.4	
Aroclor 1260 [2C]	A	250.00	268	0.0699688	0.0767849		7.1	
Aroclor-1260 (1) [2C]	A	250.00	278	0.0470406	0.0522560		11.2	
Aroclor-1260 (2) [2C]	A	250.00	283	0.1200523	0.1359888		13.2	
Aroclor-1260 (3) [2C]	A	250.00	235	0.0318590	0.0299619		-6.0	
Aroclor-1260 (4) [2C]	A	250.00	275	0.0809231	0.0889329		10.0	
Decachlorobiphenyl	A	40.000	41.9	0.7878687	0.8253285		4.8	
Tetrachlorometaxylene	A	40.000	39.8	1.1944880	1.1883830		-0.5	
Decachlorobiphenyl [2C]	A	40.000	40.0	1.2182710	1.2197040		0.0	
Tetrachlorometaxylene [2C]	A	40.000	38.2	1.1737210	1.1217640		-4.5	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230412.b/04122335ECD7.D
Data file 2: /230412.b/230412.b/04122335ECD7.D
Method: \\target\share\chem4\ecd7.i\230412.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV4
Client ID:
Injection Date: 12-APR-2023 20:40
Report Date: 04/13/2023 09:58
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	-0.002	325709	5.694	0.001	200084	39.8	38.2	4.0	Tetrachloro-m-xylene
13.900	0.001	423748	14.125	0.001	309684	41.9	40.0	4.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	548155	-18.6
Hexabromobiphenyl	1429847	1026859	-28.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	356731	13.2
Hexabromobiphenyl	513946	507802	-1.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	7.274	-0.002	55233	265.3	1	7.260	0.001	48449	232.0
Aroclor-1016	2	7.677	-0.004	149187	235.1	2	7.891	0.006	100623	237.6
Aroclor-1016	3	7.805	-0.002	92038	297.1	3	8.096	0.002	56364	294.7
Aroclor-1016	4	8.417	-0.001	51308	256.2	4	8.321	0.002	40812	272.0
Total Col1Ave (4 peaks):					263.4	Total Col2Ave (4 peaks):				259.1 RPD = 2
Corrected Ave (3 peaks):					252.2	Corrected Ave (3 peaks):				247.2 RPD = 2
CalAmt %D:					5.4	CalAmt %D:				3.6
Aroclor-1260	1	11.055	-0.000	122057	330.4	1	11.664	0.001	82924	277.7
Aroclor-1260	2	11.373	-0.001	121124	313.8	2	11.932	0.001	215798	283.2
Aroclor-1260	3	11.751	-0.000	304655	297.6	3	12.445	0.000	47546	235.1
Aroclor-1260	4	12.155	-0.004	140433	272.4	4	12.516	0.001	141126	274.7
Aroclor-1260	5	12.255	-0.000	63556	286.4	NS	---			----
Total Col1Ave (5 peaks):					300.1	Total Col2Ave (4 peaks):				267.7 RPD = 11
Corrected Ave (4 peaks):					292.6	Corrected Ave (3 peaks):				262.5 RPD = 11
CalAmt %D:					20.1	CalAmt %D:				7.1

Total PCB Area Col1 (5.911 - 13.799) = 3348760 Col1 Total PCB = 0.5 ppm*

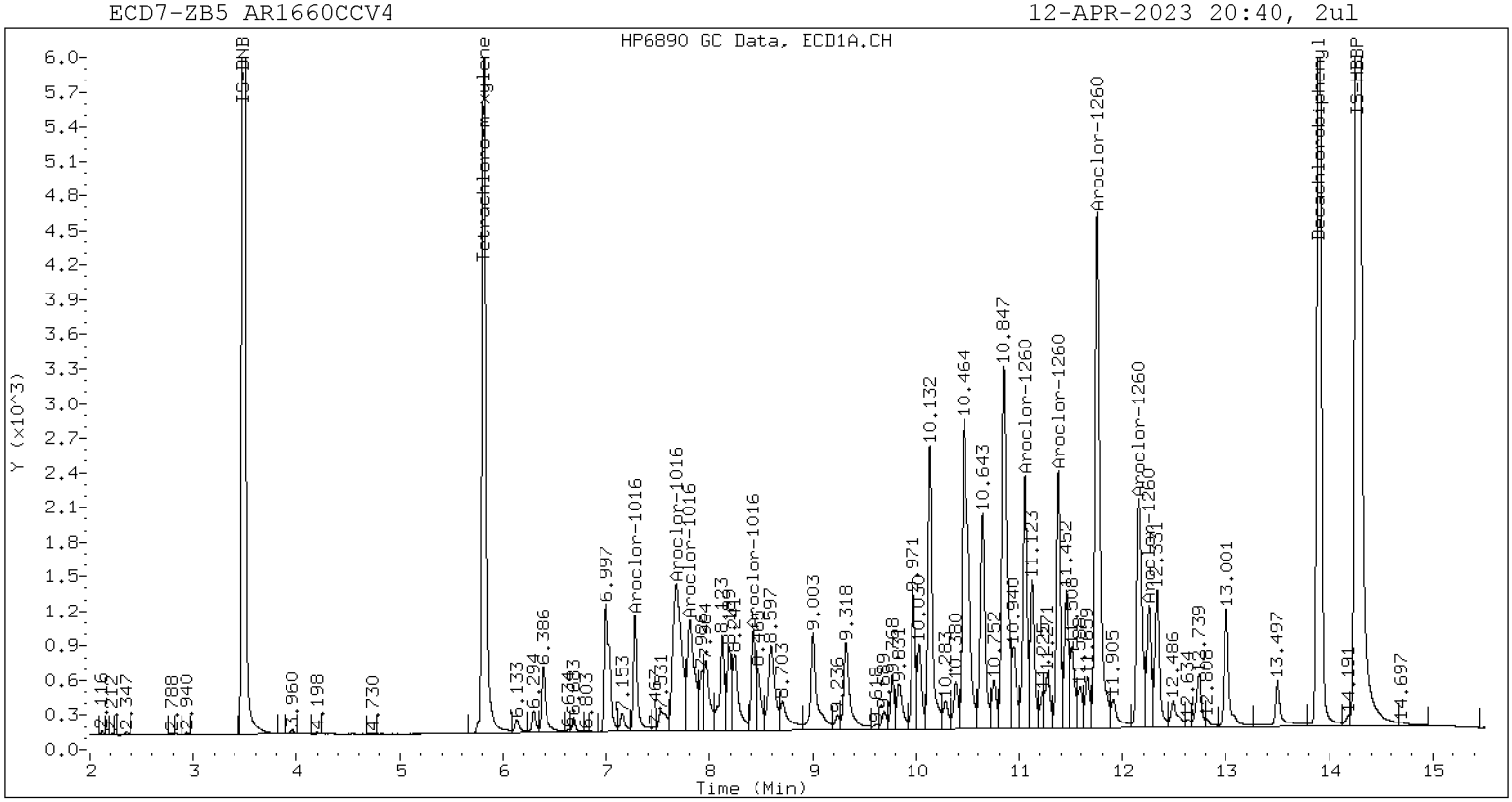
Total PCB Area Col2 (5.793 - 14.023) = 2035780 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

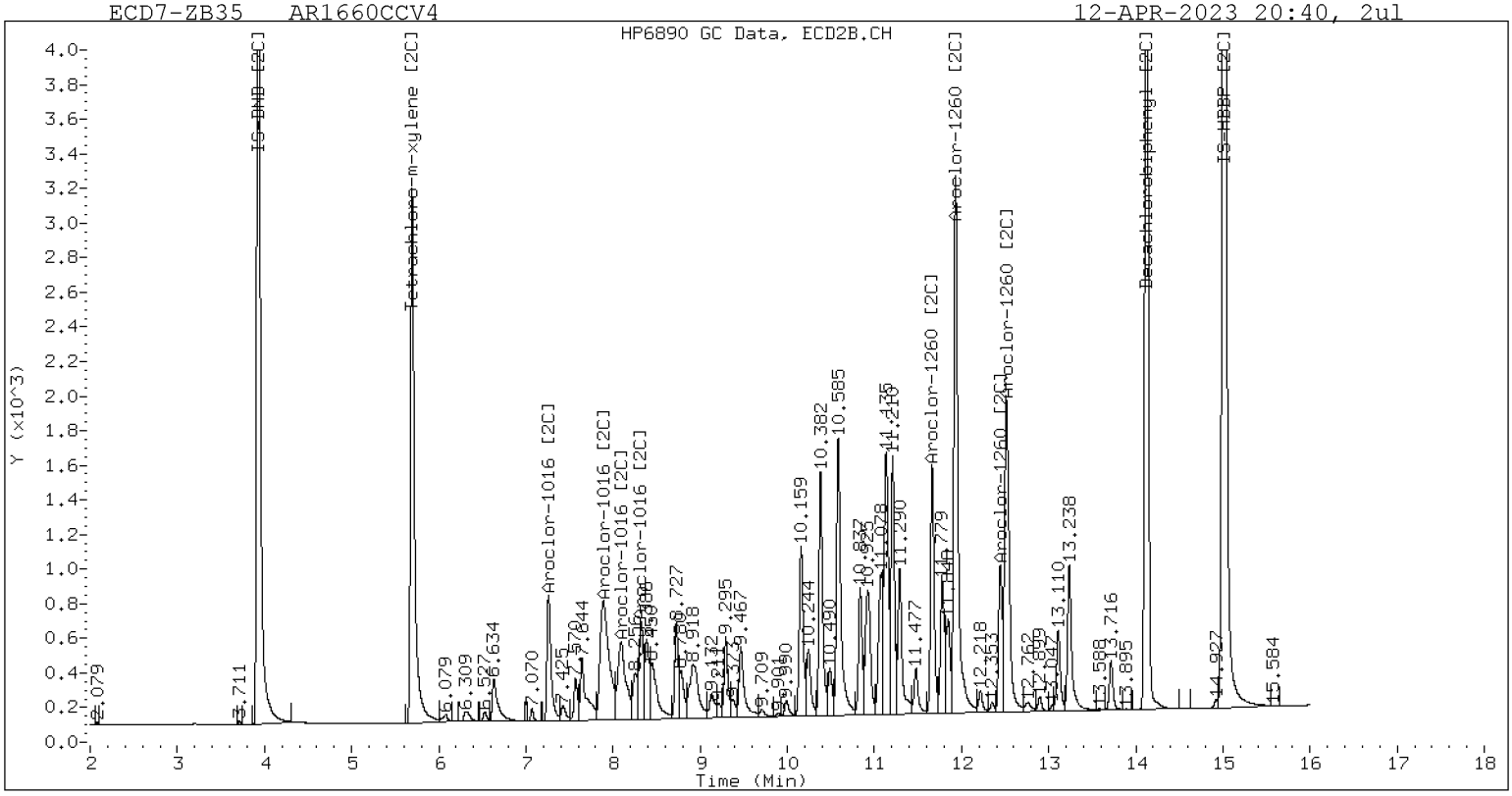
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV4 12-APR-2023 20:40, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV4 12-APR-2023 20:40, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	04122351ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLD0150	Injection Date:	04/13/23
Lab Sample ID:	SLD0150-CCV5	Injection Time:	02:11
Sequence Name:	AR1254CCV5		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	222	0.0662949	0.0582975		-11.3	
Aroclor-1254 (1)	A	250.00	221		0.0710171			
Aroclor-1254 (2)	A	250.00	232		0.0335097			
Aroclor-1254 (3)	A	250.00	209		0.0431033			
Aroclor-1254 (4)	A	250.00	208		0.0836747			
Aroclor-1254 (5)	A	250.00	239		0.0601827			
Aroclor 1254 [2C]	A	250.00	223	0.0763106	0.0686567		-10.6	
Aroclor-1254 (1) [2C]	A	250.00	223		0.0542912			
Aroclor-1254 (2) [2C]	A	250.00	217		0.0425499			
Aroclor-1254 (3) [2C]	A	250.00	214		0.0904731			
Aroclor-1254 (4) [2C]	A	250.00	246		0.1014029			
Aroclor-1254 (5) [2C]	A	250.00	217		0.0545665			
Decachlorobiphenyl	A	40.000	39.2	0.7878687	0.7726925		-2.0	
Tetrachlorometaxylene	A	40.000	37.2	1.1944880	1.1113910		-7.0	
Decachlorobiphenyl [2C]	A	40.000	39.2	1.2182710	1.1939750		-2.0	
Tetrachlorometaxylene [2C]	A	40.000	36.2	1.1737210	1.0622830		-9.5	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230412.b/04122351ECD7.D
Data file 2: /230412.b/230412.b/04122351ECD7.D
Method: \\target\share\chem4\ecd7.i\230412.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254CCV5
Client ID:
Injection Date: 13-APR-2023 02:11
Report Date: 04/13/2023 09:59
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	-0.002	304111	5.692	-0.001	189531	37.2	36.2	2.8	Tetrachloro-m-xylene
13.897	-0.002	190002	14.123	-0.000	212296	39.2	39.2	0.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	547262	-18.8
Hexabromobiphenyl	1429847	491792	-65.6 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	356837	13.2
Hexabromobiphenyl	513946	355612	-30.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.312	-0.003	121453	221.0	1	9.464	0.000	60541	223.2
Aroclor-1254	2	9.392	-0.004	57308	231.9	2	9.986	0.000	47448	217.5
Aroclor-1254	3	9.684	-0.004	73715	208.6	3	10.144	0.000	100888	213.7
Aroclor-1254	4	9.826	-0.004	143100	208.3	4	10.391	0.000	113076	245.7
Aroclor-1254	5	10.205	-0.007	102924	239.0	5	10.583	0.000	60848	217.2

Total Col1Ave (5 peaks): 221.8 Total Col2Ave (5 peaks): 223.5 RPD = 1

Corrected Ave (4 peaks): 217.5 Corrected Ave (4 peaks): 217.9 RPD = 0

CalAmt %D: -11.3 CalAmt %D: -10.6

Total PCB Area Col1 (5.911 - 13.799) = 1511664 Col1 Total PCB = 0.2 ppm*

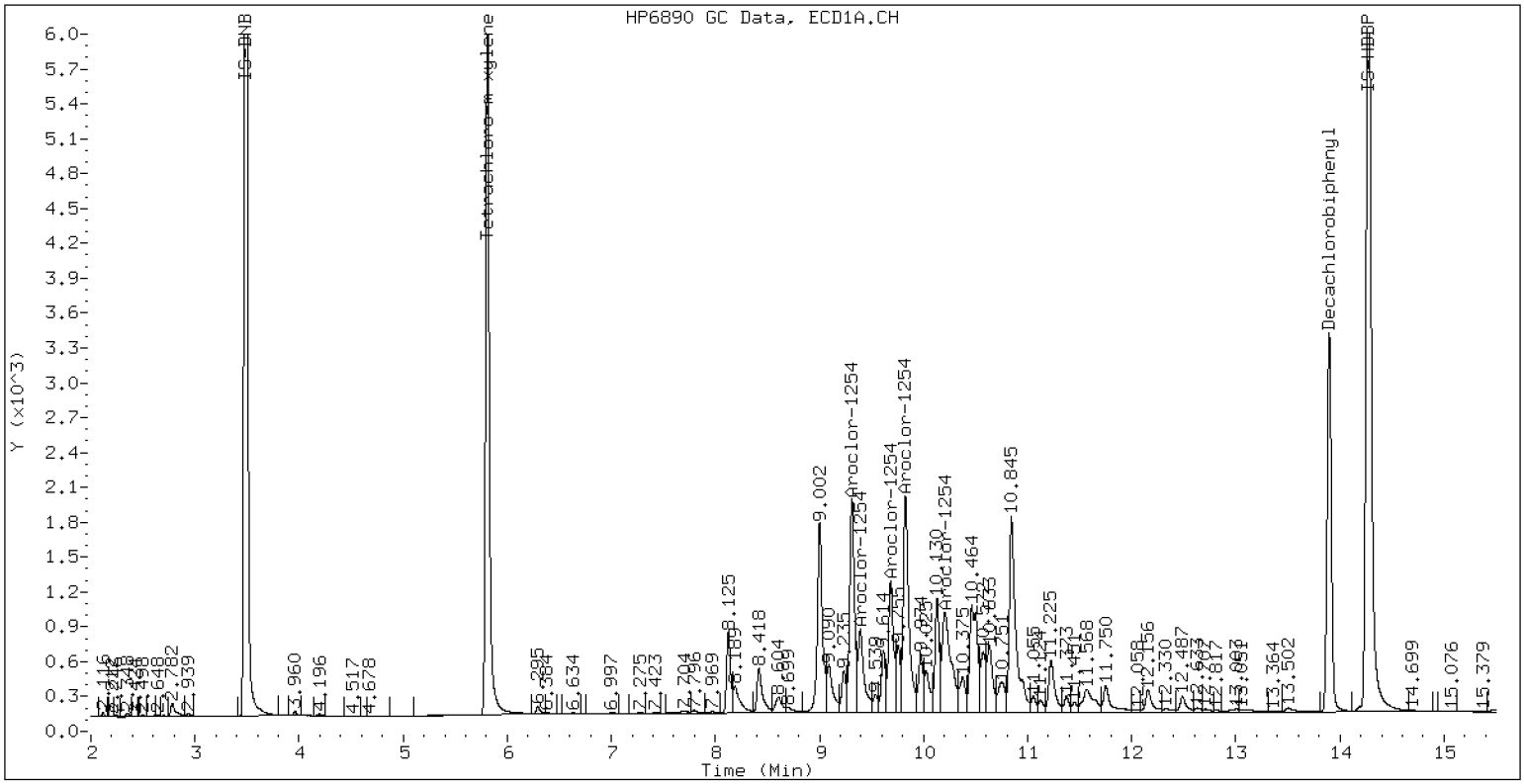
Total PCB Area Col2 (5.793 - 14.023) = 971147 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

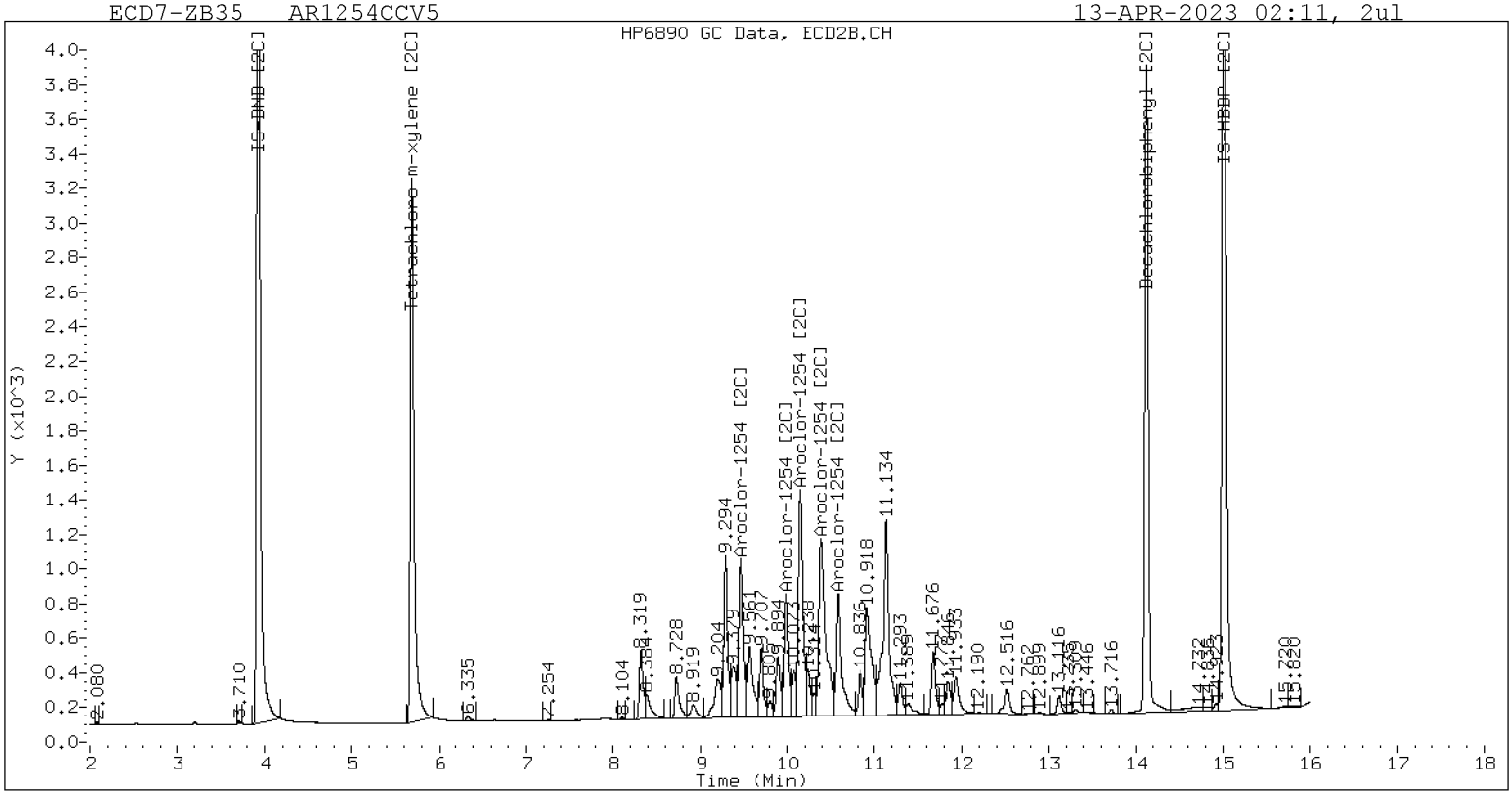
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCV5 13-APR-2023 02:11, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCV5 13-APR-2023 02:11, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	04122352ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLD0150	Injection Date:	04/13/23
Lab Sample ID:	SLD0150-CCV6	Injection Time:	02:32
Sequence Name:	AR1660CCV6		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	255	0.0493662	0.0496381		2.0	
Aroclor-1016 (1)	A	250.00	253	0.0303852	0.0307523		1.2	
Aroclor-1016 (2)	A	250.00	235	0.0926308	0.0871283		-6.0	
Aroclor-1016 (3)	A	250.00	288	0.0452180	0.0521373		15.2	
Aroclor-1016 (4)	A	250.00	244	0.0292307	0.0285343		-2.4	
Aroclor 1016 [2C]	A	250.00	262	0.0545857	0.0561987		4.9	
Aroclor-1016 (1) [2C]	A	250.00	236	0.0468313	0.0442344		-5.6	
Aroclor-1016 (2) [2C]	A	250.00	245	0.0949676	0.0931042		-2.0	
Aroclor-1016 (3) [2C]	A	250.00	298	0.0428922	0.0511691		19.2	
Aroclor-1016 (4) [2C]	A	250.00	270	0.0336515	0.0362870		8.0	
Aroclor 1260	A	250.00	404	0.0392091	0.0630951		61.7	
Aroclor-1260 (1)	A	250.00	444	0.0287785	0.0511734		77.6	
Aroclor-1260 (2)	A	250.00	420	0.0300690	0.0505075		68.0	
Aroclor-1260 (3)	A	250.00	400	0.0797517	0.1277519		60.0	
Aroclor-1260 (4)	A	250.00	369	0.0401599	0.0592155		47.6	
Aroclor-1260 (5)	A	250.00	388	0.0172866	0.0268272		55.2	
Aroclor 1260 [2C]	A	250.00	294	0.0699688	0.0841457		17.5	
Aroclor-1260 (1) [2C]	A	250.00	306	0.0470406	0.0576013		22.4	
Aroclor-1260 (2) [2C]	A	250.00	311	0.1200523	0.1493712		24.4	
Aroclor-1260 (3) [2C]	A	250.00	260	0.0318590	0.0330920		4.0	
Aroclor-1260 (4) [2C]	A	250.00	298	0.0809231	0.0965181		19.2	
Decachlorobiphenyl	A	40.000	41.3	0.7878687	0.8144202		3.3	
Tetrachlorometaxylene	A	40.000	39.4	1.1944880	1.1780970		-1.5	
Decachlorobiphenyl [2C]	A	40.000	40.3	1.2182710	1.2281900		0.8	
Tetrachlorometaxylene [2C]	A	40.000	38.9	1.1737210	1.1411550		-2.8	

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230412.b/04122352ECD7.D
Data file 2: /230412.b/230412.b/04122352ECD7.D
Method: \\target\share\chem4\ecd7.i\230412.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV6
Client ID:
Injection Date: 13-APR-2023 02:32
Report Date: 04/13/2023 09:59
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.808	-0.002	327614	5.693	0.000	202656	39.5	38.9	1.4	Tetrachloro-m-xylene
13.897	-0.002	261244	14.123	0.000	255151	41.3	40.3	2.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	556175	-17.5
Hexabromobiphenyl	1429847	641546	-55.1 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	355177	12.7
Hexabromobiphenyl	513946	415491	-19.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.274	-0.002	53449	253.0	1	7.259	0.000	49097	236.1
Aroclor-1016	2	7.678	-0.003	151433	235.1	2	7.885	0.000	103339	245.1
Aroclor-1016	3	7.805	-0.003	90617	288.3	3	8.093	0.000	56794	298.2
Aroclor-1016	4	8.416	-0.002	49594	244.0	4	8.319	0.000	40276	269.6
Total Col1Ave (4 peaks):					255.1	Total Col2Ave (4 peaks):				262.3 RPD = 3
Corrected Ave (3 peaks):					244.1	Corrected Ave (3 peaks):				250.3 RPD = 3
CalAmt %D:					2.0	CalAmt %D:				4.9
Aroclor-1260	1	11.054	-0.002	102594	444.5	1	11.663	0.000	74790	306.1
Aroclor-1260	2	11.372	-0.001	101259	419.9	2	11.931	0.000	193945	311.1
Aroclor-1260	3	11.749	-0.002	256121	400.5	3	12.445	0.000	42967	259.7
Aroclor-1260	4	12.155	-0.004	118717	368.6	4	12.514	0.000	125320	298.2
Aroclor-1260	5	12.253	-0.001	53784	388.0	NS	---			----
Total Col1Ave (5 peaks):					404.3	Total Col2Ave (4 peaks):				293.8 RPD = 32
Corrected Ave (4 peaks):					394.2	Corrected Ave (3 peaks):				288.0 RPD = 31
CalAmt %D:					61.7	CalAmt %D:				17.5

Total PCB Area Col1 (5.911 - 13.799) = 3001302 Col1 Total PCB = 0.5 ppm*

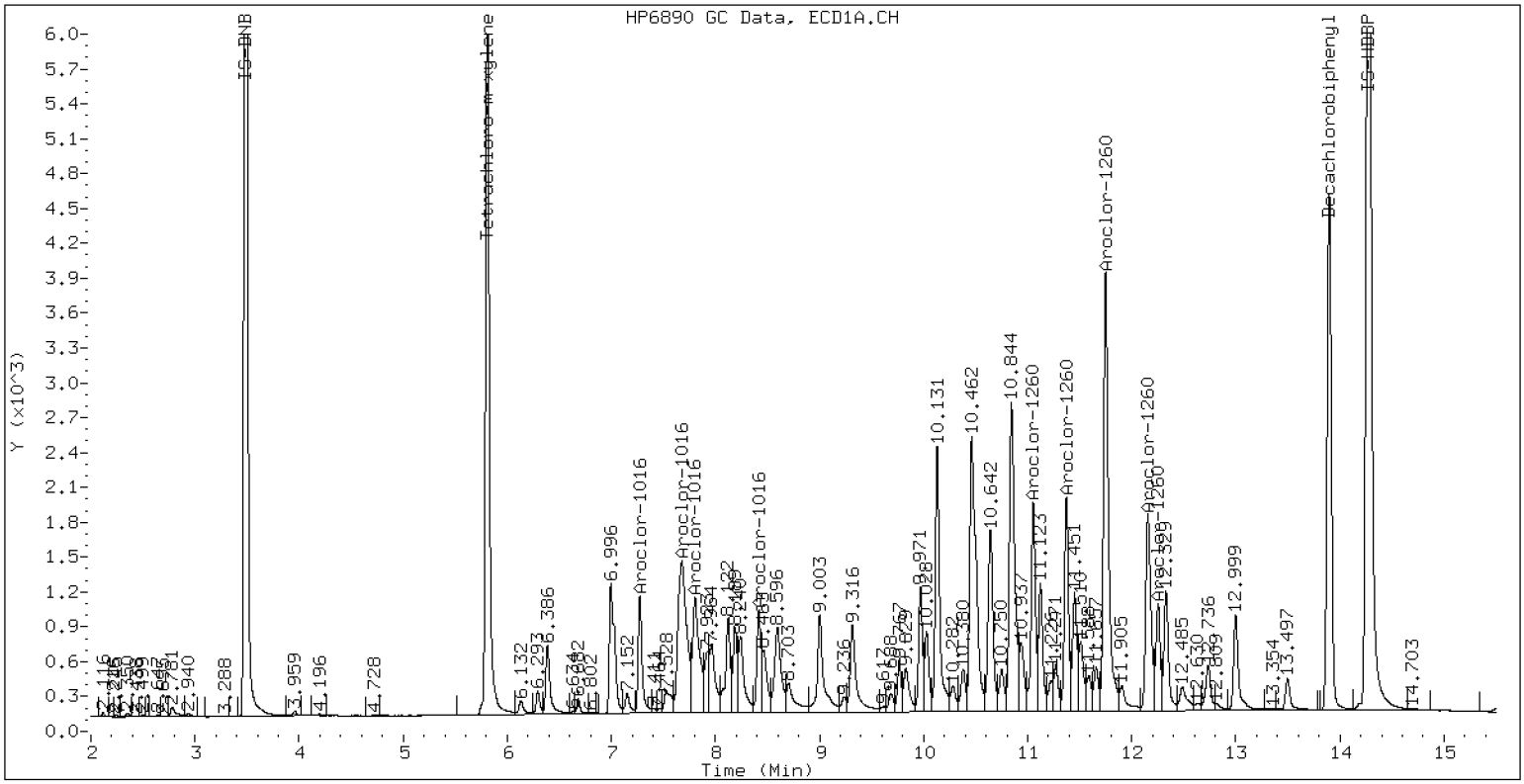
Total PCB Area Col2 (5.793 - 14.023) = 1913185 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

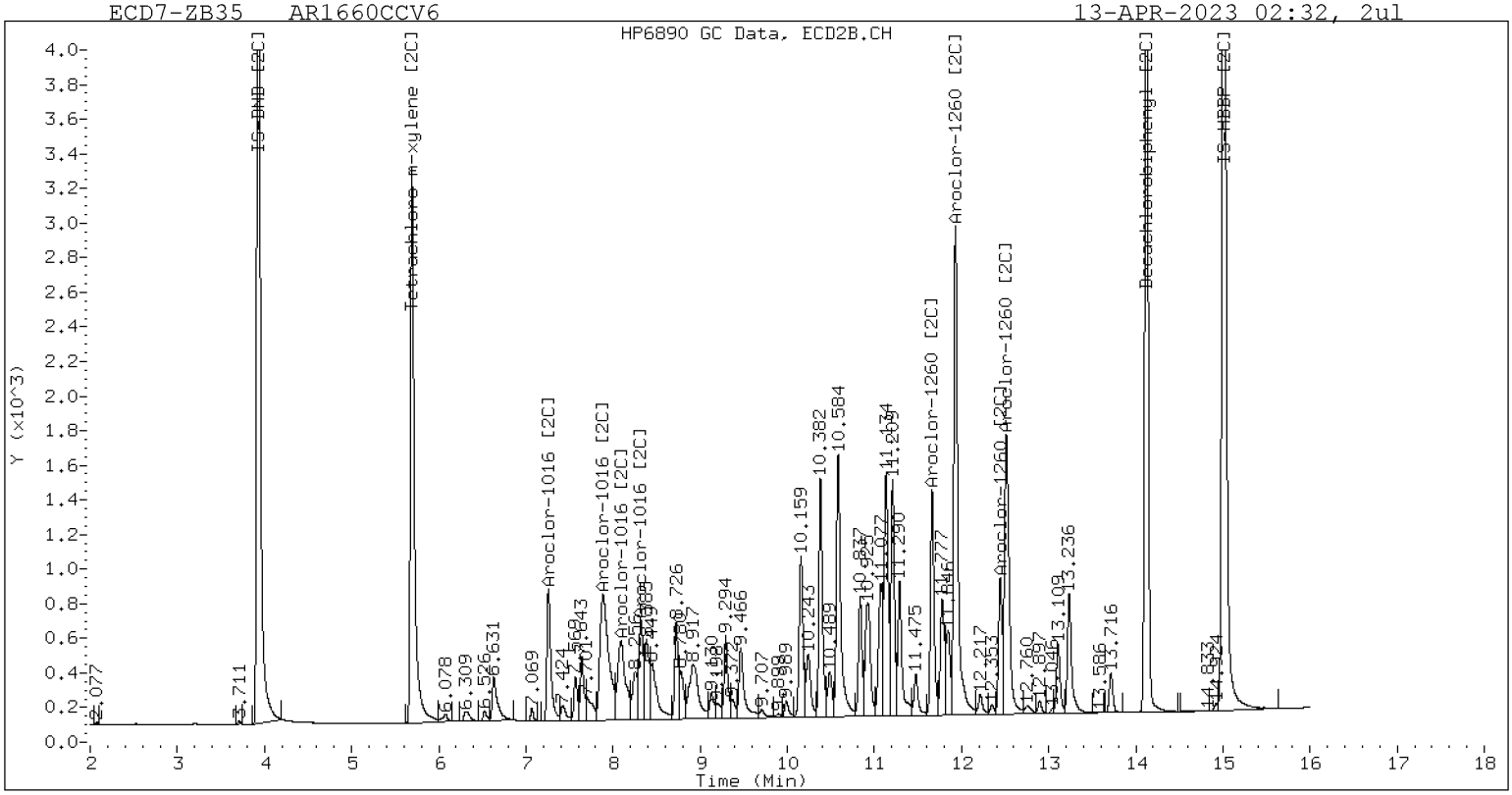
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV6 13-APR-2023 02:32, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV6 13-APR-2023 02:32, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	04132305ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLD0171	Injection Date:	04/13/23
Lab Sample ID:	SLD0171-CCV1	Injection Time:	10:35
Sequence Name:	AR1248CCV1		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	378	0.0574755	0.0885489		51.2	+/-20 *
Aroclor-1248 (1)	A	250.00	394		0.0614447			
Aroclor-1248 (2)	A	250.00	266		0.0528743			
Aroclor-1248 (3)	A	250.00	422		0.1579709			
Aroclor-1248 (4)	A	250.00	430		0.0819056			
Aroclor 1248 [2C]	A	250.00	267	0.0444270	0.0471350		6.8	+/-20
Aroclor-1248 (1) [2C]	A	250.00	300		0.0457851			
Aroclor-1248 (2) [2C]	A	250.00	252		0.0398474			
Aroclor-1248 (3) [2C]	A	250.00	268		0.0487500			
Aroclor-1248 (4) [2C]	A	250.00	248		0.0541576			
Decachlorobiphenyl	A	40.000	38.7	0.7878687	0.7617540		-3.3	+/-20
Tetrachlorometaxylene	A	40.000	38.1	1.1944880	1.1385160		-4.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.2	1.2182710	1.1635630		-4.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	38.4	1.1737210	1.1270880		-4.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230413.b/04132305ECD7.D
Data file 2: /230413.b/230413.b/04132305ECD7.D
Method: \\target\share\chem4\ecd7.i\230413.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV1
Client ID:
Injection Date: 13-APR-2023 10:35
Report Date: 04/13/2023 11:15
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.003	310447	5.694	0.000	183016	38.1	38.4	0.7	Tetrachloro-m-xylene
13.898	0.005	362489	14.123	0.000	285568	38.7	38.2	1.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	545354	-19.1
Hexabromobiphenyl	1429847	951722	-33.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	324759	3.0
Hexabromobiphenyl	513946	490851	-4.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.416	0.011	104716	393.5	1	8.319	0.000	46466	299.7
Aroclor-1248	2	8.597	0.016	90110	266.4	2	8.728	0.000	40440	252.2
Aroclor-1248	3	8.999	0.001	269219	421.9	3	9.203	0.000	49475	268.2
Aroclor-1248	4	9.309	0.014	139586	429.7	4	9.626	0.000	54963	248.1
Total Col1Ave (4 peaks):					377.9	Total Col2Ave (4 peaks):				267.0 RPD = 34
Corrected Ave (3 peaks):					360.6	Corrected Ave (3 peaks):				256.2 RPD = 34
CalAmt %D:					51.2	CalAmt %D:				6.8

Total PCB Area Col1 (5.906 - 13.793) = 1439242 Col1 Total PCB = 0.2 ppm*

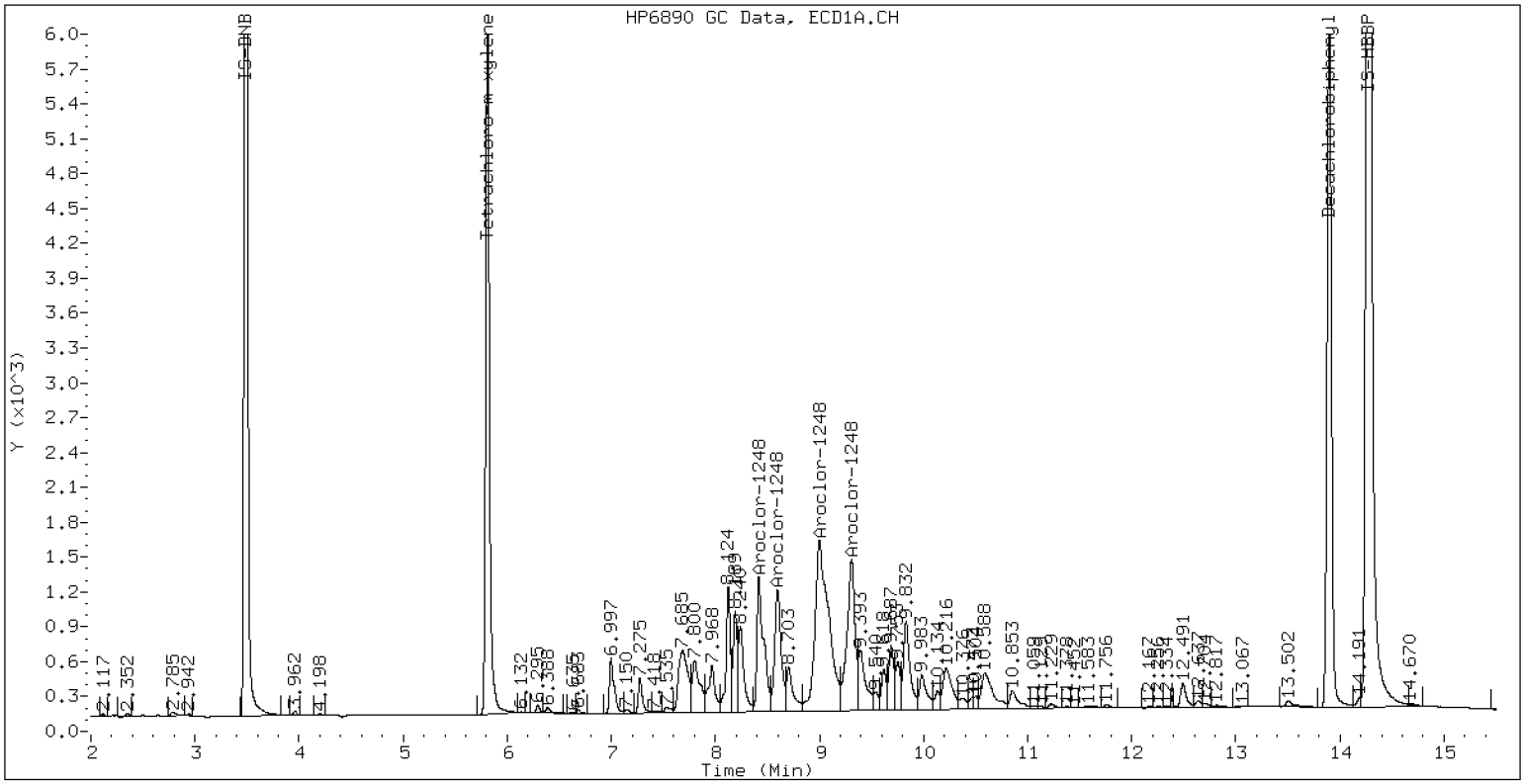
Total PCB Area Col2 (5.794 - 14.023) = 820343 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

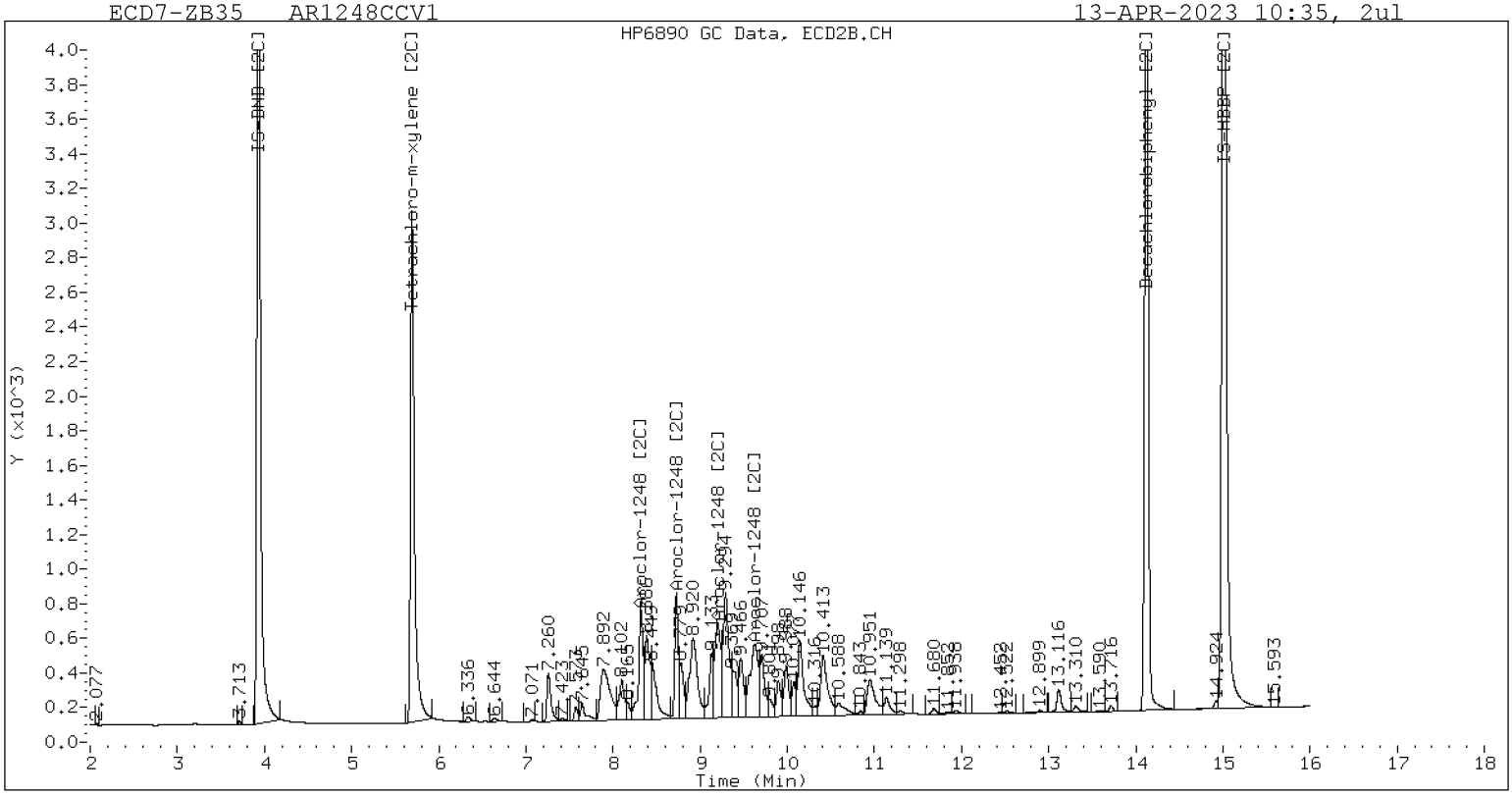
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV1 13-APR-2023 10:35, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV1 13-APR-2023 10:35, 2ul

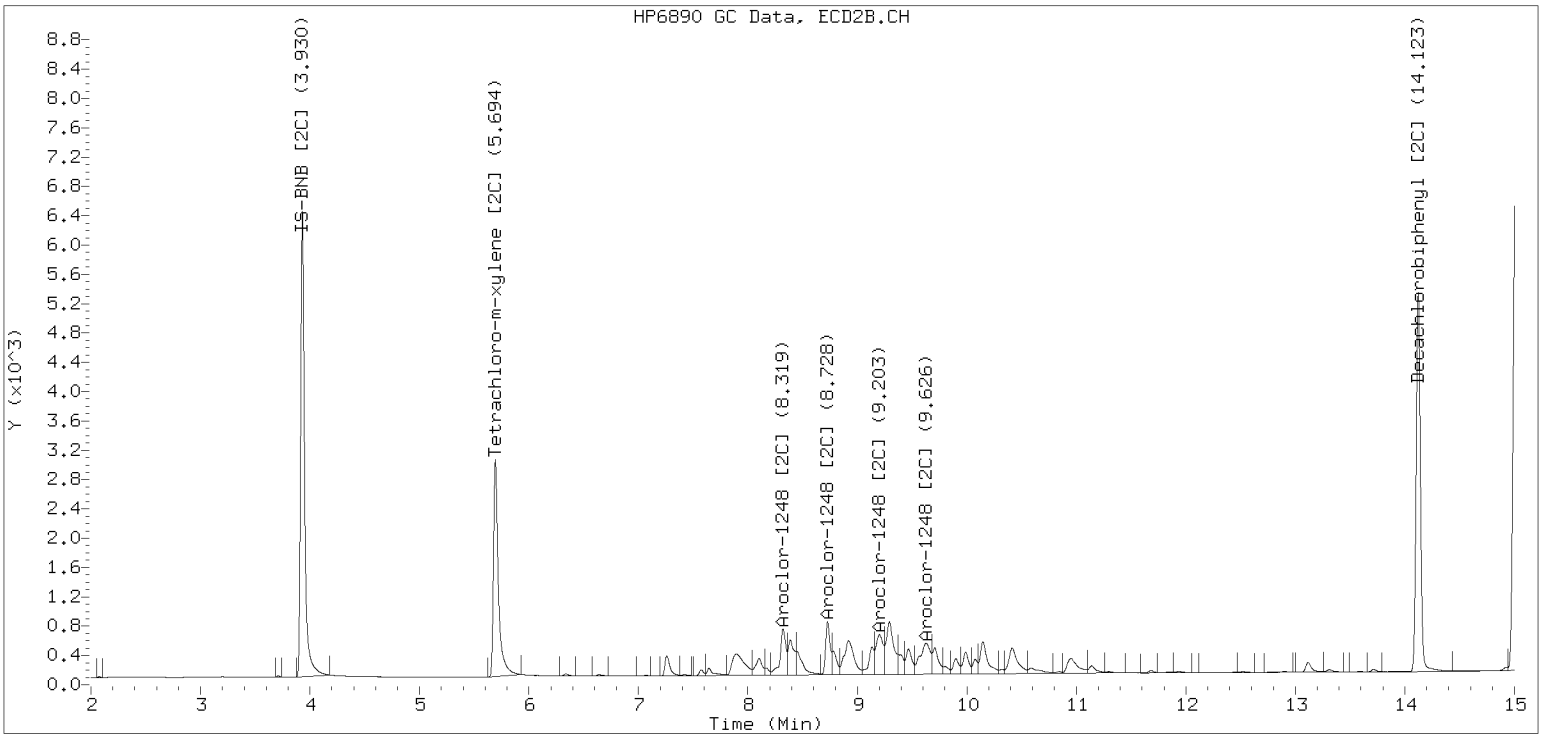


ZB-35 Manual Integration: YES

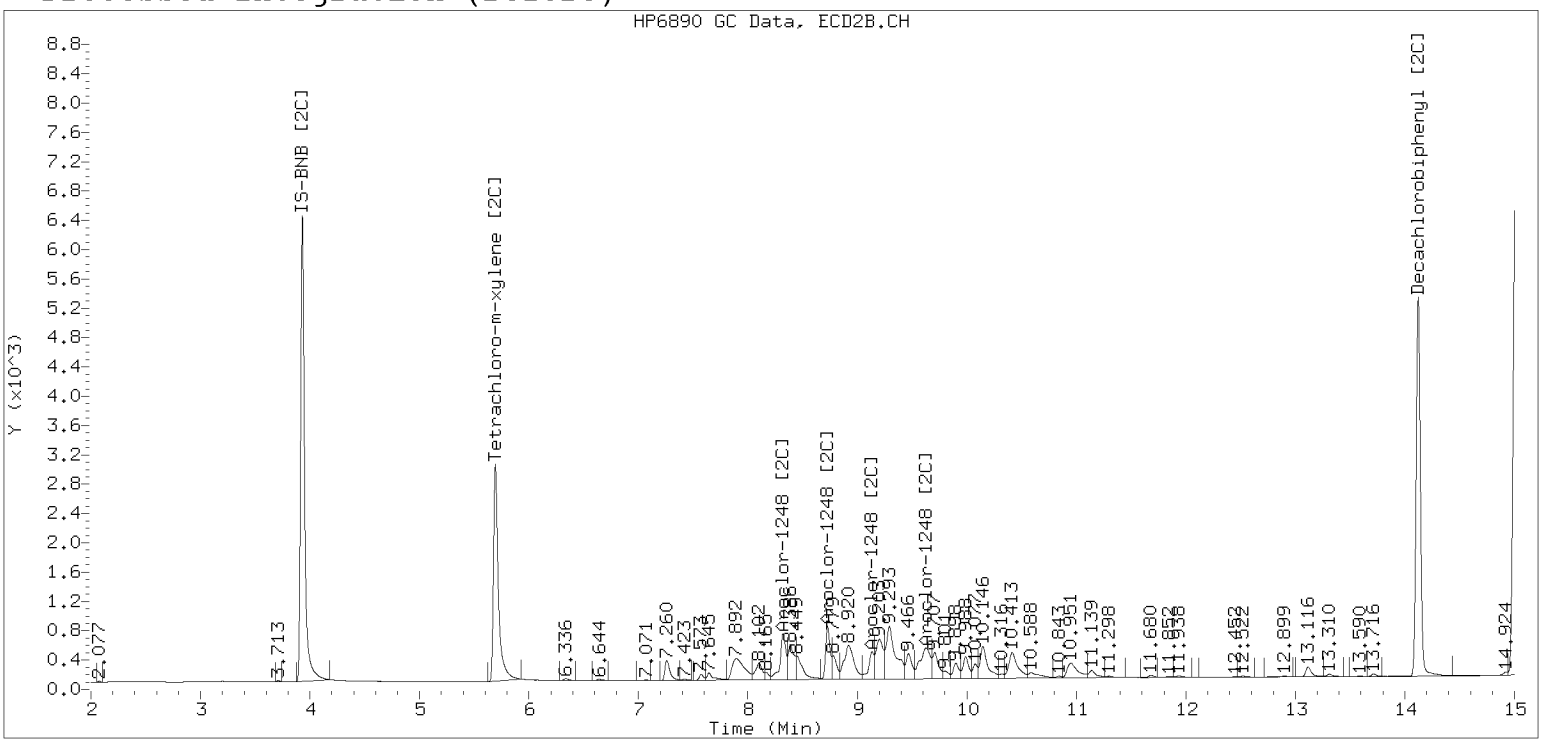
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230413.b/230413.b/04132305ECD7.D Injection Date: 13-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	04132306ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLD0171	Injection Date:	04/13/23
Lab Sample ID:	SLD0171-CCV2	Injection Time:	10:56
Sequence Name:	AR1660CCV2		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1016	A	250.00	254	0.0493662	0.0496459		1.5	+/-20	
Aroclor-1016 (1)	A	250.00	241	0.0303852	0.0293159		-3.6		
Aroclor-1016 (2)	A	250.00	236	0.0926308	0.0874224		-5.6		
Aroclor-1016 (3)	A	250.00	297	0.0452180	0.0536541		18.8		
Aroclor-1016 (4)	A	250.00	241	0.0292307	0.0281914		-3.6		
Aroclor 1016 [2C]	A	250.00	276	0.0545857	0.0589335		10.3	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	248	0.0468313	0.0463934		-0.8		
Aroclor-1016 (2) [2C]	A	250.00	256	0.0949676	0.0971207		2.4		
Aroclor-1016 (3) [2C]	A	250.00	315	0.0428922	0.0539976		26.0		
Aroclor-1016 (4) [2C]	A	250.00	284	0.0336515	0.0382224		13.6		
Aroclor 1260	A	250.00	311	0.0392091	0.0484064		24.2	+/-20	*
Aroclor-1260 (1)	A	250.00	339	0.0287785	0.0389942		35.6		
Aroclor-1260 (2)	A	250.00	315	0.0300690	0.0379011		26.0		
Aroclor-1260 (3)	A	250.00	314	0.0797517	0.1000203		25.6		
Aroclor-1260 (4)	A	250.00	269	0.0401599	0.0432403		7.6		
Aroclor-1260 (5)	A	250.00	316	0.0172866	0.0218760		26.4		
Aroclor 1260 [2C]	A	250.00	265	0.0699688	0.0760761		5.9	+/-20	
Aroclor-1260 (1) [2C]	A	250.00	269	0.0470406	0.0506311		7.6		
Aroclor-1260 (2) [2C]	A	250.00	280	0.1200523	0.1345638		12.0		
Aroclor-1260 (3) [2C]	A	250.00	234	0.0318590	0.0298459		-6.4		
Aroclor-1260 (4) [2C]	A	250.00	276	0.0809231	0.0892633		10.4		
Decachlorobiphenyl	A	40.000	39.6	0.7878687	0.7795616		-1.0	+/-20	
Tetrachlorometaxylene	A	40.000	39.1	1.1944880	1.1666830		-2.3	+/-20	
Decachlorobiphenyl [2C]	A	40.000	38.8	1.2182710	1.1827180		-3.0	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	39.4	1.1737210	1.1550780		-1.5	+/-20	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230413.b/04132306ECD7.D
Data file 2: /230413.b/230413.b/04132306ECD7.D
Method: \\target\share\chem4\ecd7.i\230413.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV2
Client ID:
Injection Date: 13-APR-2023 10:56
Report Date: 04/13/2023 11:17
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.808	-0.001	325851	5.693	-0.001	190105	39.1	39.4	0.8	Tetrachloro-m-xylene
13.898	0.000	386790	14.123	0.000	295754	39.6	38.8	1.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	558594	-17.1
Hexabromobiphenyl	1429847	992327	-30.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	329164	4.4
Hexabromobiphenyl	513946	500126	-2.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.274	0.001	51174	241.2	1	7.260	0.000	47722	247.7
Aroclor-1016	2	7.677	0.002	152605	235.9	2	7.890	0.006	99902	255.7
Aroclor-1016	3	7.804	0.001	93659	296.6	3	8.096	0.001	55544	314.7
Aroclor-1016	4	8.416	0.001	49211	241.1	4	8.320	0.002	39317	284.0
Total Col1Ave (4 peaks):					253.7	Total Col2Ave (4 peaks):				275.5 RPD = 8
Corrected Ave (3 peaks):					239.4	Corrected Ave (3 peaks):				262.4 RPD = 9
CalAmt %D:					1.5	CalAmt %D:				10.2
Aroclor-1260	1	11.055	0.001	120922	338.7	1	11.664	0.002	79131	269.1
Aroclor-1260	2	11.372	0.001	117532	315.1	2	11.933	0.002	210309	280.2
Aroclor-1260	3	11.749	0.002	310165	313.5	3	12.446	0.003	46646	234.2
Aroclor-1260	4	12.157	0.001	134089	269.2	4	12.516	0.003	139509	275.8
Aroclor-1260	5	12.254	0.001	67838	316.4	NS	---			----
Total Col1Ave (5 peaks):					310.6	Total Col2Ave (4 peaks):				264.8 RPD = 16
Corrected Ave (4 peaks):					303.6	Corrected Ave (3 peaks):				259.7 RPD = 16
CalAmt %D:					24.2	CalAmt %D:				5.9

Total PCB Area Col1 (5.909 - 13.798) = 3366175 Col1 Total PCB = 0.5 ppm*

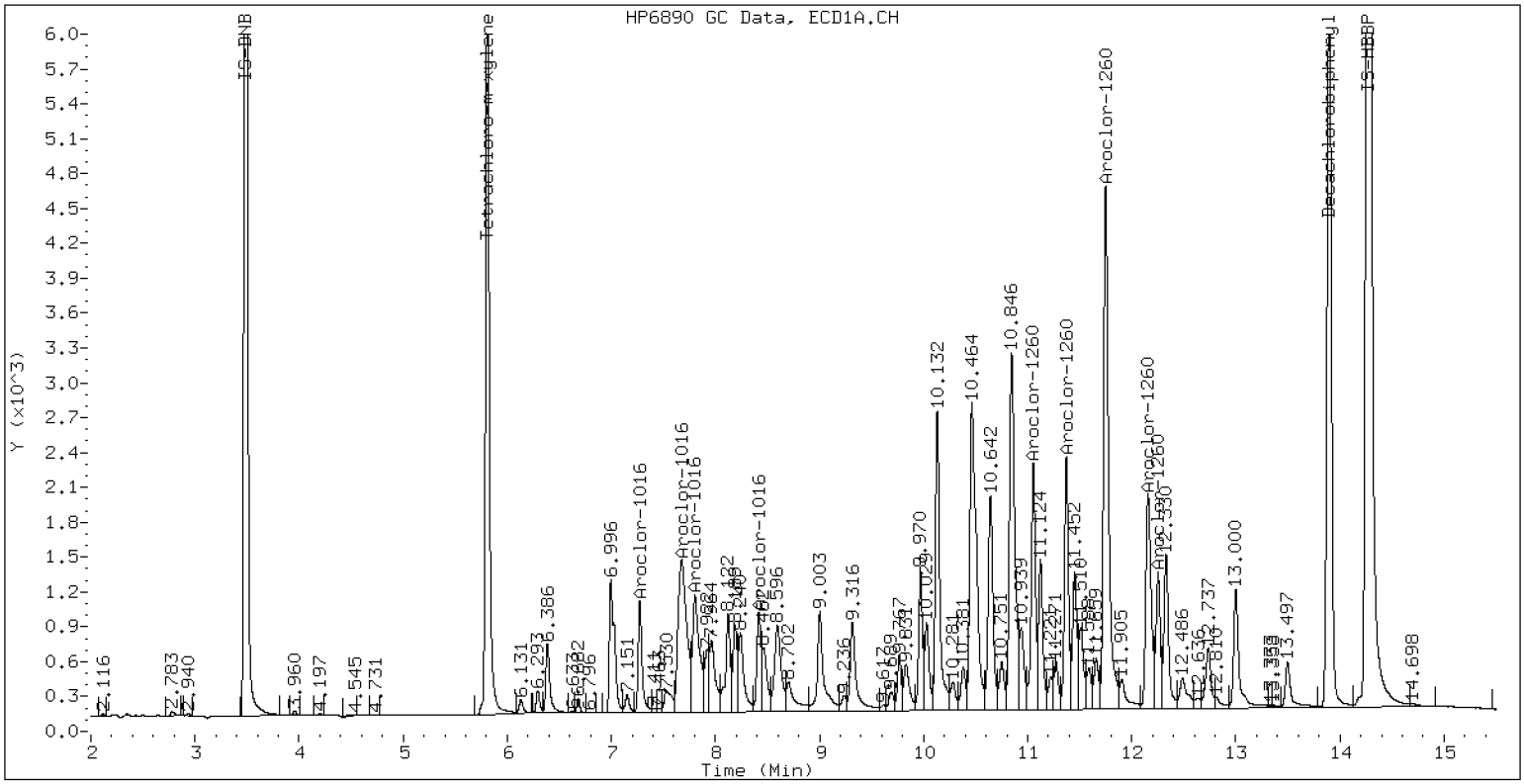
Total PCB Area Col2 (5.794 - 14.023) = 1972160 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

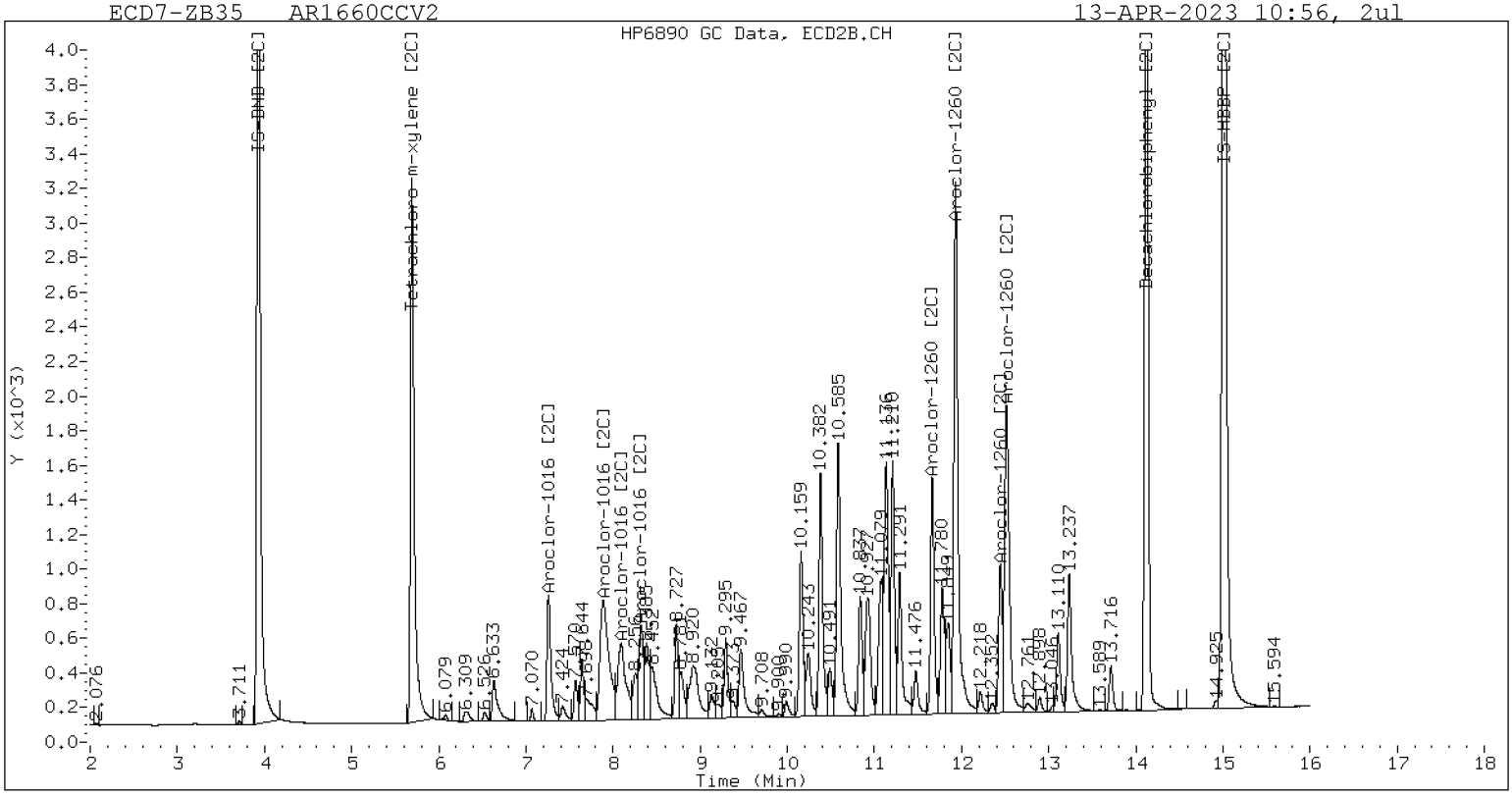
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV2 13-APR-2023 10:56, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV2 13-APR-2023 10:56, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	04132312ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLD0171	Injection Date:	04/13/23
Lab Sample ID:	SLD0171-CCV3	Injection Time:	15:00
Sequence Name:	AR1242CCV3		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	234	0.0395340	0.0365619		-6.6	+/-20
Aroclor-1242 (1)	A	250.00	240		0.0237637			
Aroclor-1242 (2)	A	250.00	225		0.0677324			
Aroclor-1242 (3)	A	250.00	229		0.0214368			
Aroclor-1242 (4)	A	250.00	240		0.0333146			
Aroclor 1242 [2C]	A	250.00	245	0.0423092	0.0413760		-2.0	+/-20
Aroclor-1242 (1) [2C]	A	250.00	252		0.0375542			
Aroclor-1242 (2) [2C]	A	250.00	243		0.0758287			
Aroclor-1242 (3) [2C]	A	250.00	253		0.0245811			
Aroclor-1242 (4) [2C]	A	250.00	232		0.0275402			
Decachlorobiphenyl	A	40.000	35.9	0.7878687	0.7065971		-10.3	+/-20
Tetrachlorometaxylene	A	40.000	46.5	1.1944880	1.3895430		16.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	37.1	1.2182710	1.1307860		-7.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	46.4	1.1737210	1.3621770		16.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230413.b/04132312ECD7.D
Data file 2: /230413.b/230413.b/04132312ECD7.D
Method: \\target\share\chem4\ecd7.i\230413.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV3
Client ID:
Injection Date: 13-APR-2023 15:00
Report Date: 04/14/2023 09:01
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.810	0.002	359531	5.695	0.001	218754	46.5	46.4	0.2	Tetrachloro-m-xylene
13.898	-0.000	325589	14.124	0.001	278827	35.9	37.1	3.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	517481	-23.2
Hexabromobiphenyl	1429847	921569	-35.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	321183	1.9
Hexabromobiphenyl	513946	493156	-4.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.275	0.005	38429	239.6	1	7.262	0.000	37693	252.6
Aroclor-1242	2	7.679	0.023	109532	224.9	2	7.903	0.000	76109	242.6
Aroclor-1242	3	8.418	0.013	34666	228.8	3	9.206	0.000	24672	252.8
Aroclor-1242	4	8.599	0.019	53874	240.5	4	9.640	0.000	27642	232.4
Total Col1Ave (4 peaks):					233.5	Total Col2Ave (4 peaks):				245.1 RPD = 5
Corrected Ave (3 peaks):					231.1	Corrected Ave (3 peaks):				242.5 RPD = 5
CalAmt %D:					-6.6	CalAmt %D:				-2.0

Total PCB Area Col1 (5.908 - 13.798) = 985322 Col1 Total PCB = 0.2 ppm*

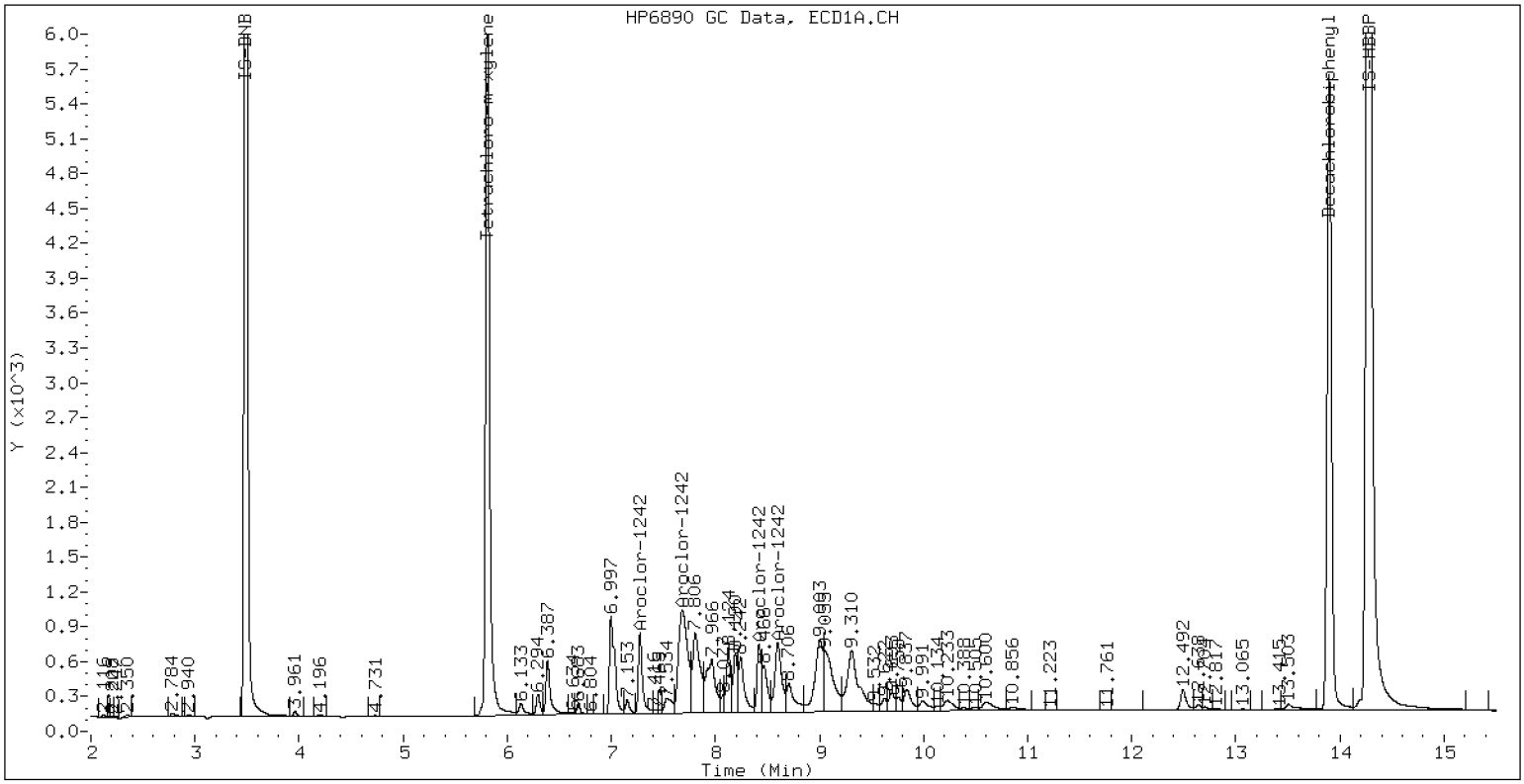
Total PCB Area Col2 (5.794 - 14.023) = 586688 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

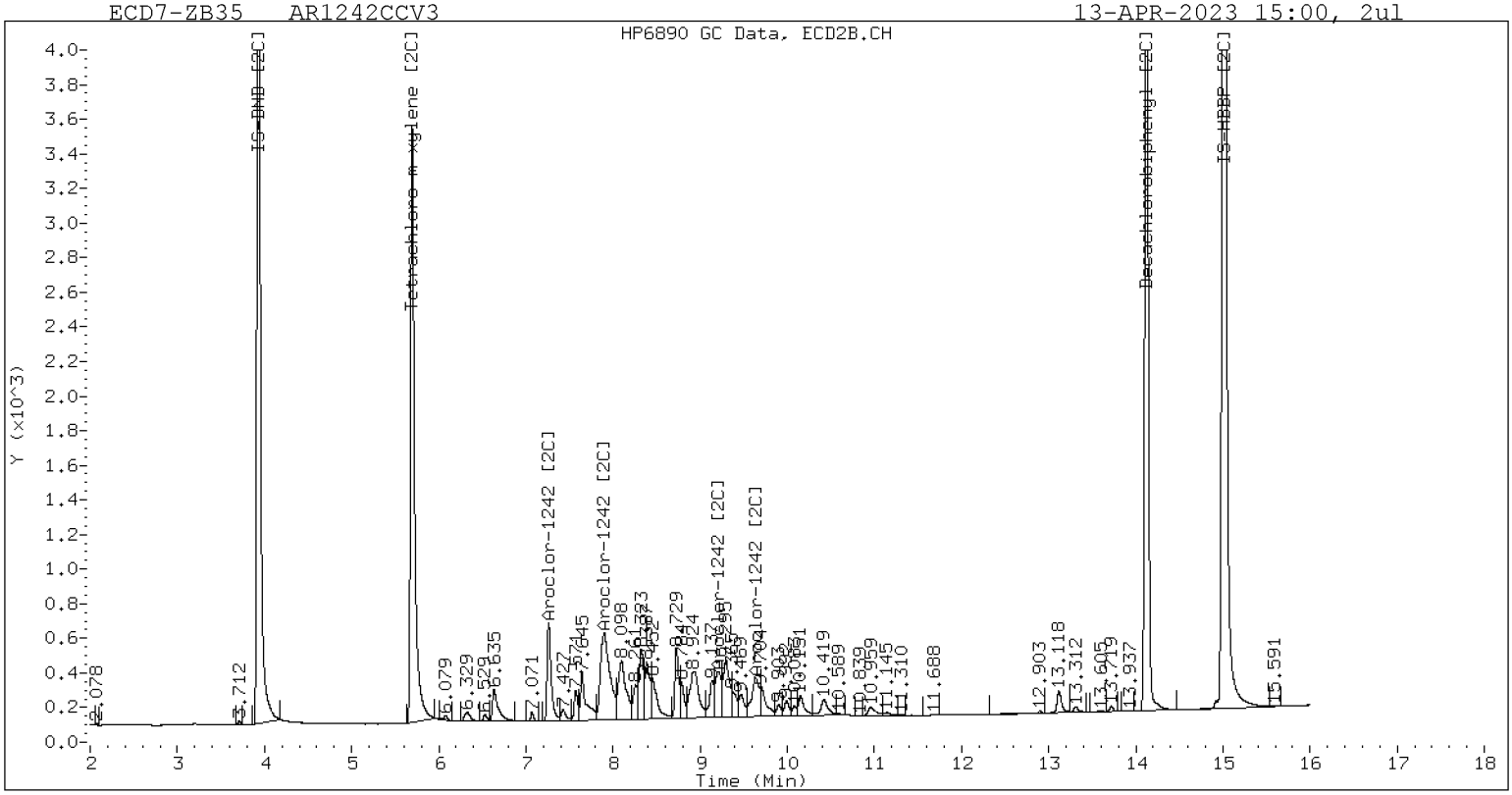
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV3 13-APR-2023 15:00, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242CCV3 13-APR-2023 15:00, 2ul

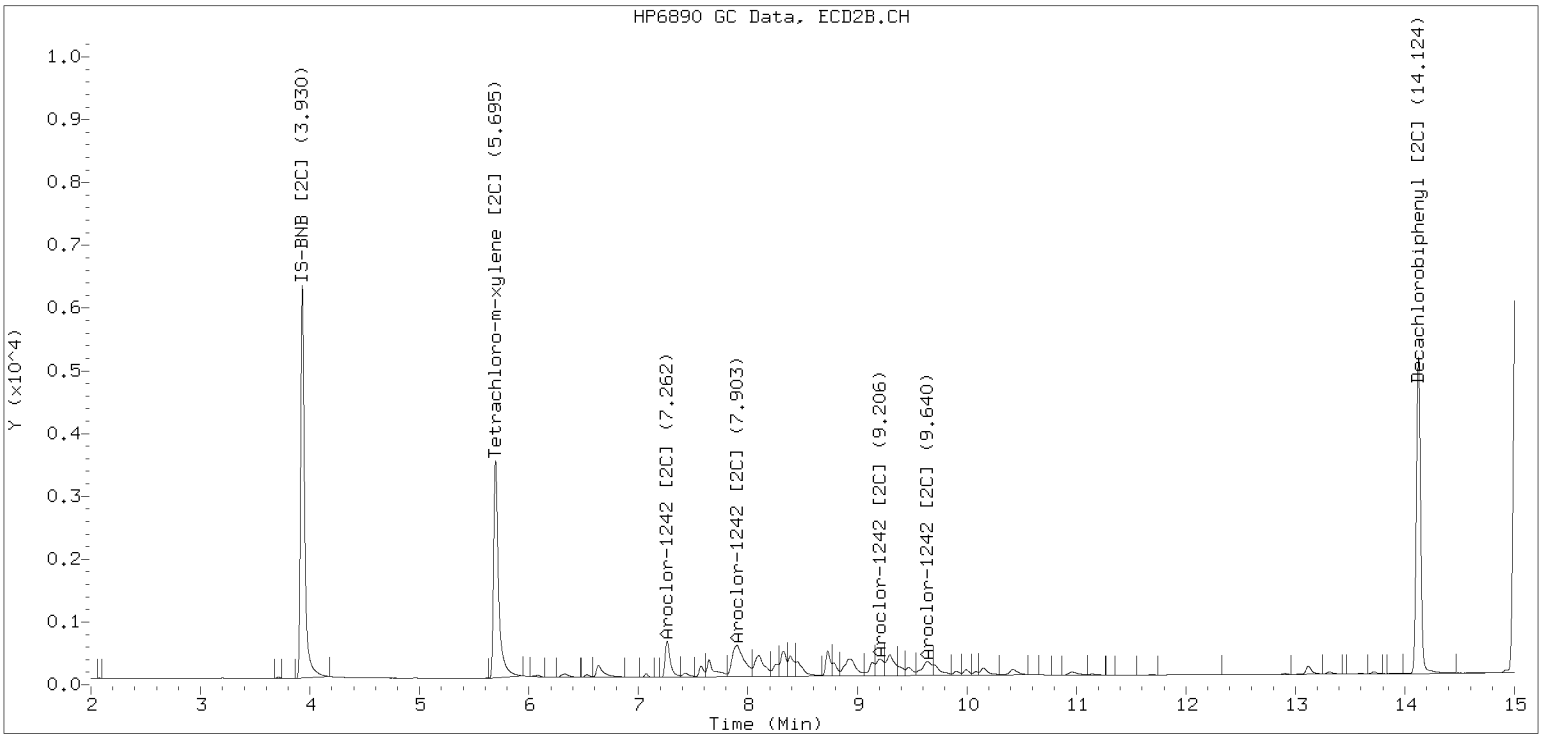


ZB-35 Manual Integration: YES

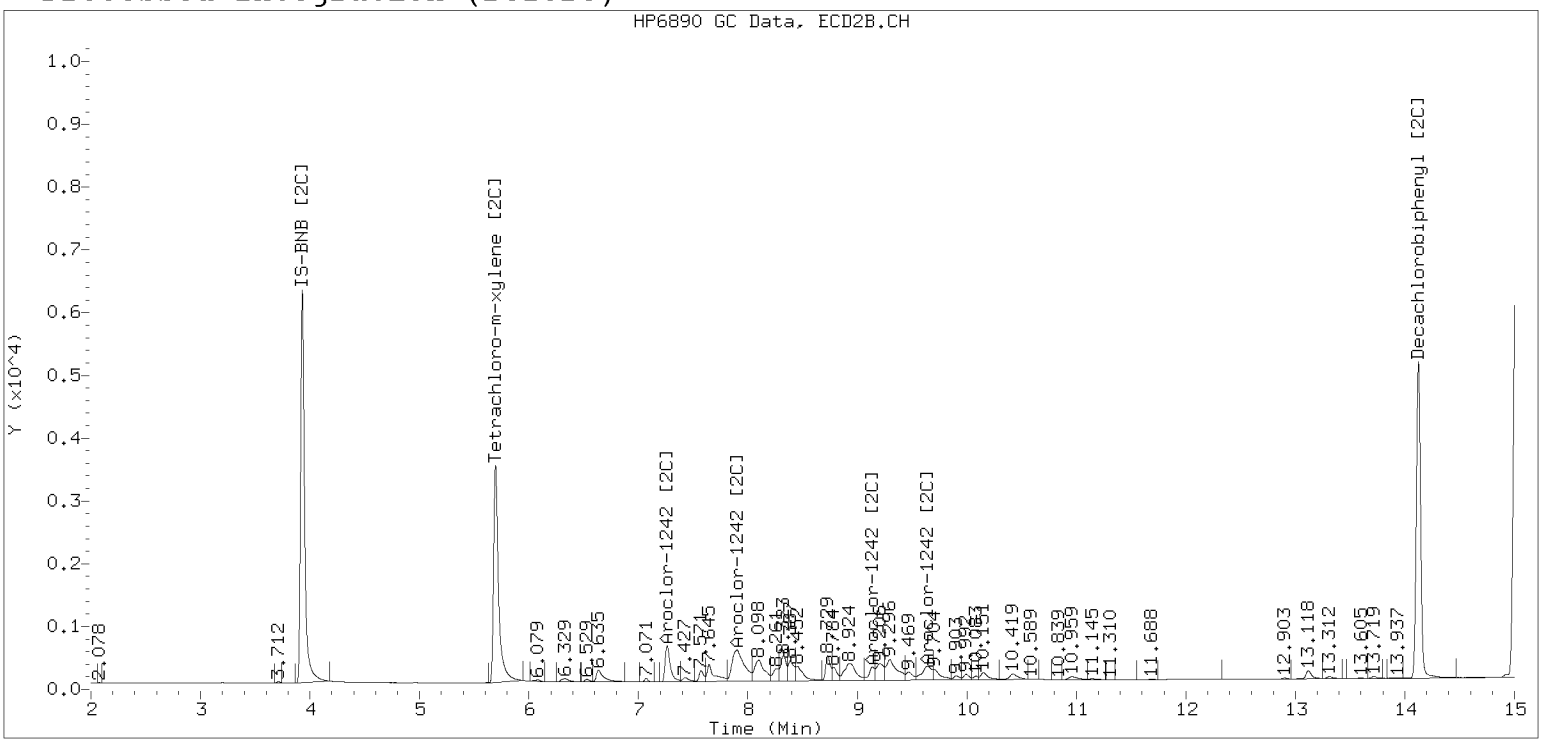
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230413.b/230413.b/04132312ECD7.D Injection Date: 13-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	04132313ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLD0171	Injection Date:	04/13/23
Lab Sample ID:	SLD0171-CCV4	Injection Time:	15:20
Sequence Name:	AR1660CCV4		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	248	0.0493662	0.0485596		-0.8	+/-20
Aroclor-1016 (1)	A	250.00	238	0.0303852	0.0289098		-4.8	
Aroclor-1016 (2)	A	250.00	229	0.0926308	0.0849031		-8.4	
Aroclor-1016 (3)	A	250.00	298	0.0452180	0.0538590		19.2	
Aroclor-1016 (4)	A	250.00	227	0.0292307	0.0265664		-9.2	
Aroclor 1016 [2C]	A	250.00	274	0.0545857	0.0583777		9.6	+/-20
Aroclor-1016 (1) [2C]	A	250.00	245	0.0468313	0.0458577		-2.0	
Aroclor-1016 (2) [2C]	A	250.00	250	0.0949676	0.0951210		0.0	
Aroclor-1016 (3) [2C]	A	250.00	313	0.0428922	0.0537302		25.2	
Aroclor-1016 (4) [2C]	A	250.00	288	0.0336515	0.0388020		15.2	
Aroclor 1260	A	250.00	282	0.0392091	0.0441761		12.6	+/-20
Aroclor-1260 (1)	A	250.00	307	0.0287785	0.0353359		22.8	
Aroclor-1260 (2)	A	250.00	290	0.0300690	0.0348529		16.0	
Aroclor-1260 (3)	A	250.00	291	0.0797517	0.0928548		16.4	
Aroclor-1260 (4)	A	250.00	238	0.0401599	0.0383025		-4.8	
Aroclor-1260 (5)	A	250.00	282	0.0172866	0.0195346		12.8	
Aroclor 1260 [2C]	A	250.00	254	0.0699688	0.0731354		1.5	+/-20
Aroclor-1260 (1) [2C]	A	250.00	258	0.0470406	0.0486218		3.2	
Aroclor-1260 (2) [2C]	A	250.00	270	0.1200523	0.1295893		8.0	
Aroclor-1260 (3) [2C]	A	250.00	221	0.0318590	0.0281797		-11.6	
Aroclor-1260 (4) [2C]	A	250.00	266	0.0809231	0.0861508		6.4	
Decachlorobiphenyl	A	40.000	38.2	0.7878687	0.7529462		-4.5	+/-20
Tetrachlorometaxylene	A	40.000	39.0	1.1944880	1.1657850		-2.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	39.8	1.2182710	1.2109520		-0.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	39.0	1.1737210	1.1439860		-2.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230413.b/04132313ECD7.D
Data file 2: /230413.b/230413.b/04132313ECD7.D
Method: \\target\share\chem4\ecd7.i\230413.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV4
Client ID:
Injection Date: 13-APR-2023 15:20
Report Date: 04/14/2023 09:01
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.810	0.001	311302	5.696	0.003	184887	39.0	39.0	0.1	Tetrachloro-m-xylene
13.899	0.001	403537	14.124	0.001	316986	38.2	39.8	3.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	534064	-20.7
Hexabromobiphenyl	1429847	1071888	-25.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	323233	2.5
Hexabromobiphenyl	513946	523532	1.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.275	0.001	48249	237.9	1	7.263	0.002	46321	244.8
Aroclor-1016	2	7.678	0.002	141699	229.1	2	7.891	0.002	96082	250.4
Aroclor-1016	3	7.806	0.002	89888	297.8	3	8.097	0.002	54273	313.2
Aroclor-1016	4	8.418	0.001	44338	227.2	4	8.323	0.002	39194	288.3
Total Col1Ave (4 peaks):					248.0	Total Col2Ave (4 peaks):				274.2 RPD = 10
Corrected Ave (3 peaks):					231.4	Corrected Ave (3 peaks):				261.2 RPD = 12
CalAmt %D:					-0.8	CalAmt %D:				9.7
Aroclor-1260	1	11.056	0.002	118363	307.0	1	11.664	0.002	79547	258.4
Aroclor-1260	2	11.372	0.001	116745	289.8	2	11.932	0.002	212013	269.9
Aroclor-1260	3	11.750	0.000	311031	291.1	3	12.446	0.002	46103	221.1
Aroclor-1260	4	12.157	0.001	128300	238.4	4	12.517	0.003	140946	266.2
Aroclor-1260	5	12.254	0.001	65434	282.5	NS	---			----
Total Col1Ave (5 peaks):					281.8	Total Col2Ave (4 peaks):				253.9 RPD = 10
Corrected Ave (4 peaks):					275.4	Corrected Ave (3 peaks):				248.6 RPD = 10
CalAmt %D:					12.7	CalAmt %D:				1.6

Total PCB Area Col1 (5.908 - 13.798) = 3198308 Col1 Total PCB = 0.5 ppm*

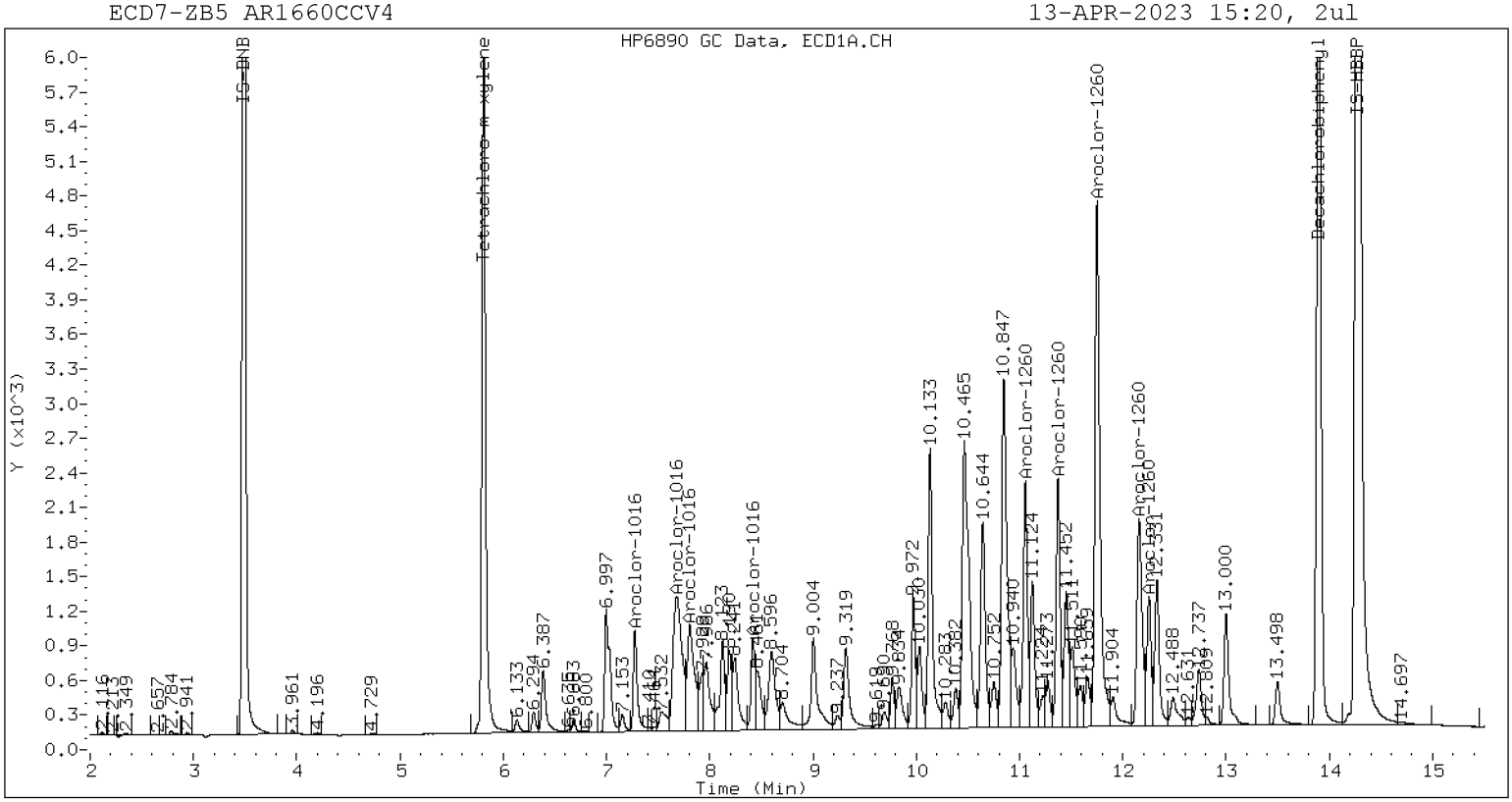
Total PCB Area Col2 (5.794 - 14.023) = 1943337 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

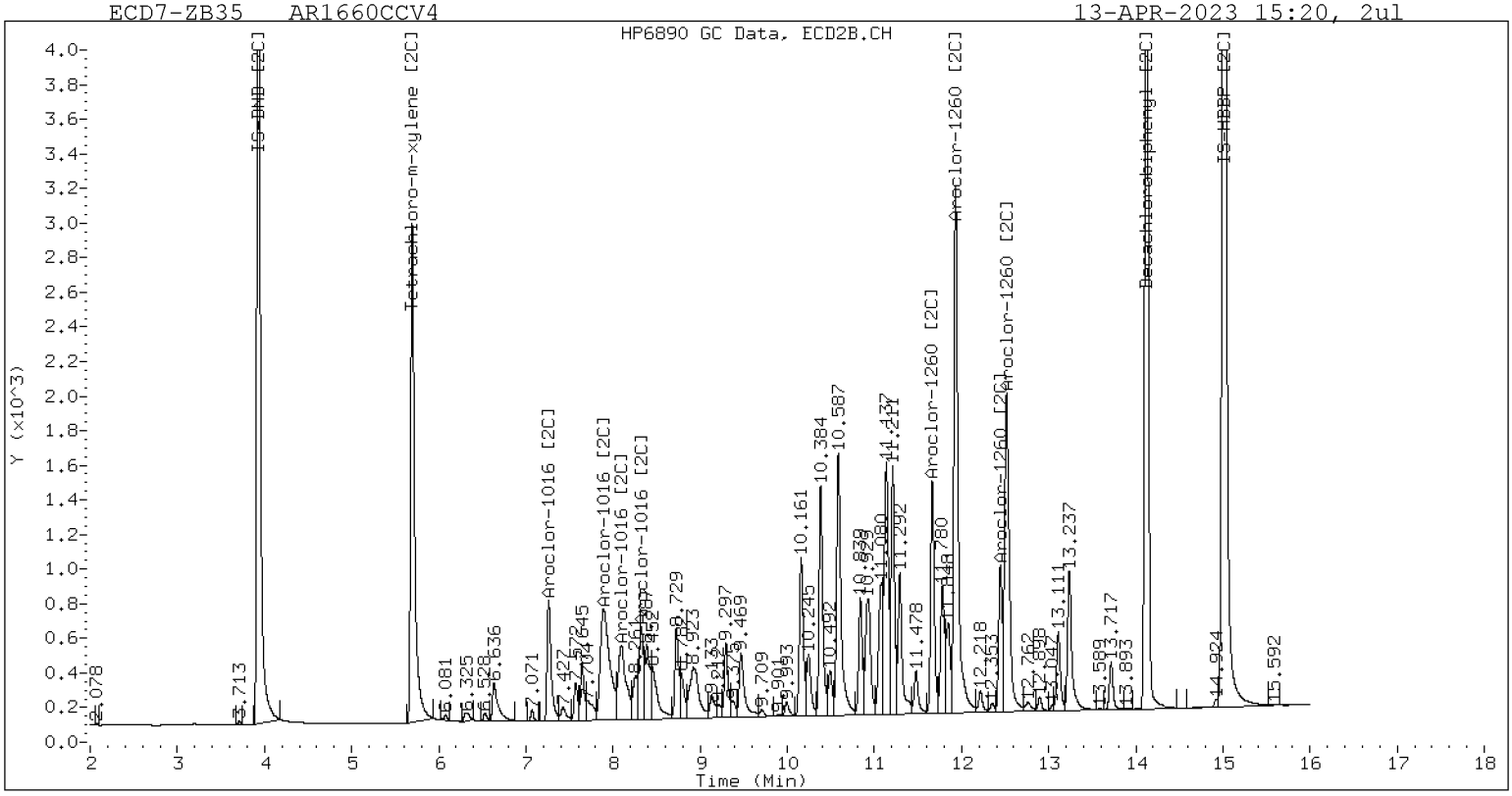
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV4 13-APR-2023 15:20, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV4 13-APR-2023 15:20, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	04132330ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLD0171	Injection Date:	04/13/23
Lab Sample ID:	SLD0171-CCV5	Injection Time:	21:13
Sequence Name:	AR1254CCV5		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	211	0.0662949	0.0560720		-15.6	+/-20
Aroclor-1254 (1)	A	250.00	215		0.0690664			
Aroclor-1254 (2)	A	250.00	202		0.0292312			
Aroclor-1254 (3)	A	250.00	204		0.0420584			
Aroclor-1254 (4)	A	250.00	205		0.0823740			
Aroclor-1254 (5)	A	250.00	229		0.0576300			
Aroclor 1254 [2C]	A	250.00	242	0.0763106	0.0743166		-3.3	+/-20
Aroclor-1254 (1) [2C]	A	250.00	235		0.0572648			
Aroclor-1254 (2) [2C]	A	250.00	233		0.0456851			
Aroclor-1254 (3) [2C]	A	250.00	226		0.0955906			
Aroclor-1254 (4) [2C]	A	250.00	271		0.1118075			
Aroclor-1254 (5) [2C]	A	250.00	244		0.0612350			
Decachlorobiphenyl	A	40.000	38.5	0.7878687	0.7580314		-3.8	+/-20
Tetrachlorometaxylene	A	40.000	37.3	1.1944880	1.1129720		-6.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.6	1.2182710	1.2378300		1.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	38.0	1.1737210	1.1161320		-5.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230413.b/04132330ECD7.D
Data file 2: /230413.b/230413.b/04132330ECD7.D
Method: \\target\share\chem4\ecd7.i\230413.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254CCV5
Client ID:
Injection Date: 13-APR-2023 21:13
Report Date: 04/14/2023 09:02
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.808	-0.000	296533	5.693	-0.001	183428	37.3	38.0	2.0	Tetrachloro-m-xylene
13.897	-0.001	190925	14.123	-0.000	223973	38.5	40.6	5.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D	
Bromo-Nitrobenzene	673778	532867	-20.9	
Hexabromobiphenyl	1429847	503739	-64.8	<-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	328685	4.3
Hexabromobiphenyl	513946	361880	-29.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.312	0.004	115010	214.9	1	9.466	0.000	58819	235.4
Aroclor-1254	2	9.394	0.004	48676	202.3	2	9.986	0.000	46925	233.5
Aroclor-1254	3	9.685	0.003	70036	203.6	3	10.144	0.000	98185	225.8
Aroclor-1254	4	9.827	0.004	137170	205.1	4	10.393	0.000	114842	270.9
Aroclor-1254	5	10.209	0.009	95966	228.9	5	10.585	0.000	62897	243.7
Total Col1Ave (5 peaks):					211.0	Total Col2Ave (5 peaks):				241.9 RPD = 14
Corrected Ave (4 peaks):					206.5	Corrected Ave (4 peaks):				234.6 RPD = 13
CalAmt %D:					-15.6	CalAmt %D:				-3.3

Total PCB Area Col1 (5.908 - 13.798) = 1361757 Col1 Total PCB = 0.2 ppm*

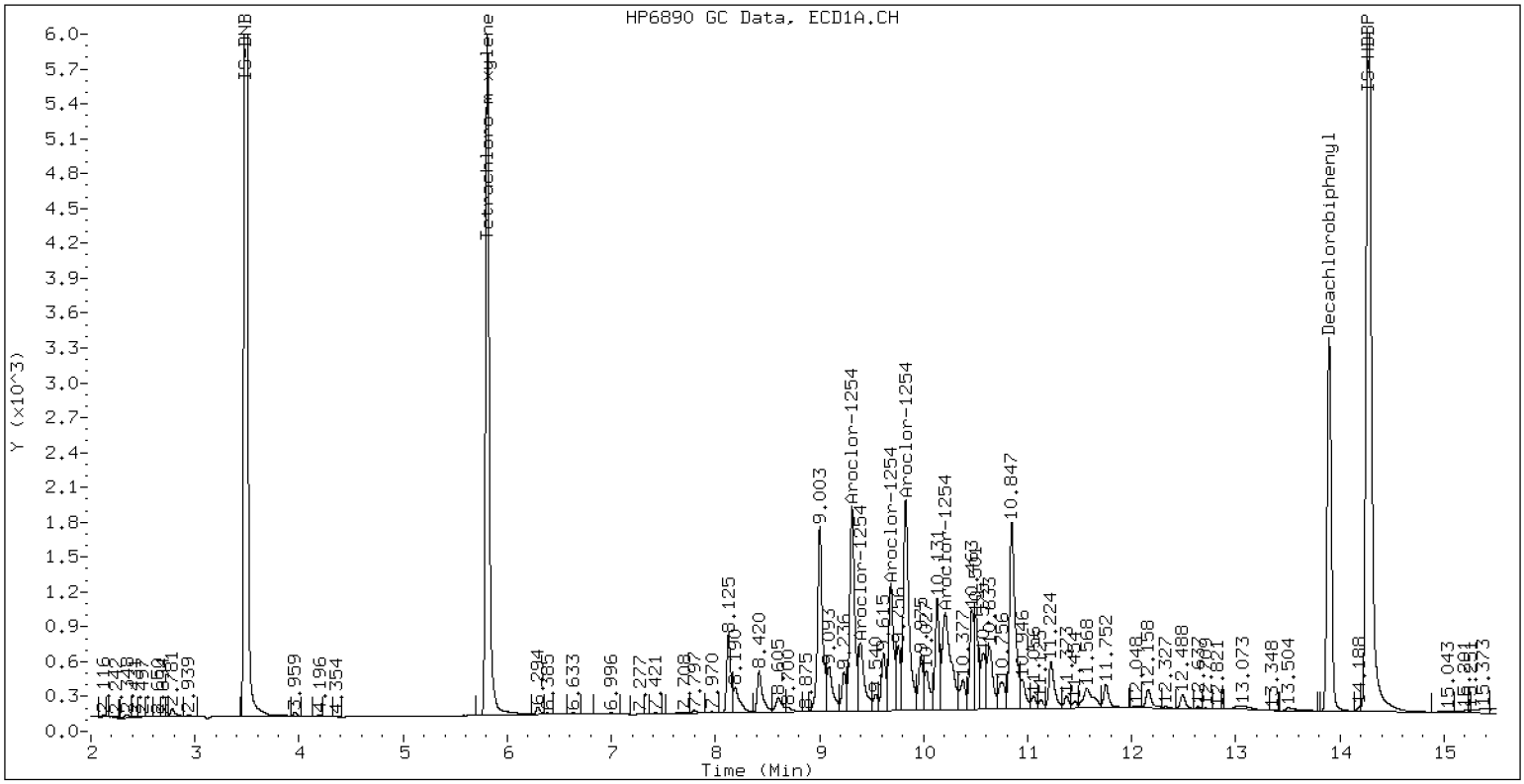
Total PCB Area Col2 (5.794 - 14.023) = 1012843 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

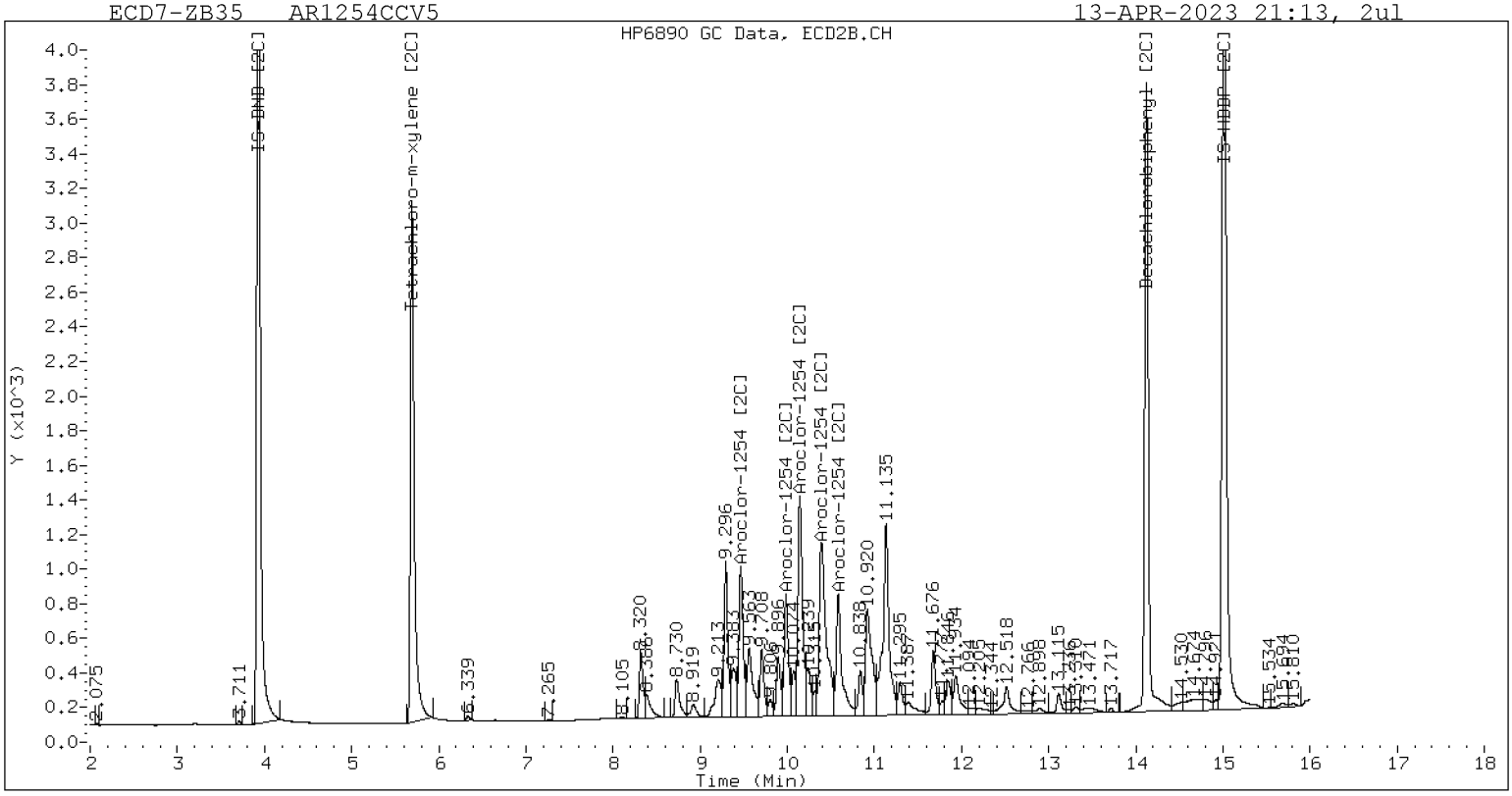
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCV5 13-APR-2023 21:13, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCV5 13-APR-2023 21:13, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	04132331ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLD0171	Injection Date:	04/13/23
Lab Sample ID:	SLD0171-CCV6	Injection Time:	21:34
Sequence Name:	AR1660CCV6		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1016	A	250.00	251	0.0493662	0.0493255		0.4	+/-20	
Aroclor-1016 (1)	A	250.00	239	0.0303852	0.0290735		-4.4		
Aroclor-1016 (2)	A	250.00	238	0.0926308	0.0880004		-4.8		
Aroclor-1016 (3)	A	250.00	290	0.0452180	0.0525507		16.0		
Aroclor-1016 (4)	A	250.00	237	0.0292307	0.0276774		-5.2		
Aroclor 1016 [2C]	A	250.00	278	0.0545857	0.0595468		11.2	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	251	0.0468313	0.0469786		0.4		
Aroclor-1016 (2) [2C]	A	250.00	259	0.0949676	0.0984766		3.6		
Aroclor-1016 (3) [2C]	A	250.00	318	0.0428922	0.0545017		27.2		
Aroclor-1016 (4) [2C]	A	250.00	284	0.0336515	0.0382303		13.6		
Aroclor 1260	A	250.00	372	0.0392091	0.0582465		49.0	+/-20	*
Aroclor-1260 (1)	A	250.00	418	0.0287785	0.0480704		67.2		
Aroclor-1260 (2)	A	250.00	389	0.0300690	0.0467884		55.6		
Aroclor-1260 (3)	A	250.00	377	0.0797517	0.1204018		50.8		
Aroclor-1260 (4)	A	250.00	318	0.0401599	0.0510736		27.2		
Aroclor-1260 (5)	A	250.00	360	0.0172866	0.0248981		44.0		
Aroclor 1260 [2C]	A	250.00	289	0.0699688	0.0829927		15.7	+/-20	
Aroclor-1260 (1) [2C]	A	250.00	298	0.0470406	0.0561044		19.2		
Aroclor-1260 (2) [2C]	A	250.00	307	0.1200523	0.1475494		22.8		
Aroclor-1260 (3) [2C]	A	250.00	256	0.0318590	0.0325659		2.4		
Aroclor-1260 (4) [2C]	A	250.00	296	0.0809231	0.0957509		18.4		
Decachlorobiphenyl	A	40.000	40.5	0.7878687	0.7969644		1.3	+/-20	
Tetrachlorometaxylene	A	40.000	39.7	1.1944880	1.1851890		-0.8	+/-20	
Decachlorobiphenyl [2C]	A	40.000	40.3	1.2182710	1.2265690		0.8	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	39.6	1.1737210	1.1617990		-1.0	+/-20	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230413.b/04132331ECD7.D
Data file 2: /230413.b/230413.b/04132331ECD7.D
Method: \\target\share\chem4\ecd7.i\230413.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV6
Client ID:
Injection Date: 13-APR-2023 21:34
Report Date: 04/14/2023 09:02
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.001	313371	5.694	0.000	188133	39.7	39.6	0.2	Tetrachloro-m-xylene
13.899	0.000	266950	14.124	0.001	254050	40.5	40.3	0.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	528812	-21.5
Hexabromobiphenyl	1429847	669917	-53.1 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	323865	2.7
Hexabromobiphenyl	513946	414245	-19.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.274	0.000	48045	239.2	1	7.262	0.001	47546	250.8
Aroclor-1016	2	7.679	0.002	145424	237.5	2	7.890	-0.000	99666	259.2
Aroclor-1016	3	7.806	0.001	86842	290.5	3	8.097	0.002	55160	317.7
Aroclor-1016	4	8.417	0.001	45738	236.7	4	8.320	-0.000	38692	284.0
Total Col1Ave (4 peaks):					251.0	Total Col2Ave (4 peaks):				277.9 RPD = 10
Corrected Ave (3 peaks):					237.8	Corrected Ave (3 peaks):				264.7 RPD = 11
CalAmt %D:					0.4	CalAmt %D:				11.2
Aroclor-1260	1	11.055	-0.000	100635	417.6	1	11.663	0.001	72628	298.2
Aroclor-1260	2	11.373	0.001	97951	389.0	2	11.930	-0.001	191005	307.3
Aroclor-1260	3	11.750	0.000	252060	377.4	3	12.444	-0.000	42157	255.5
Aroclor-1260	4	12.156	-0.001	106922	317.9	4	12.514	0.000	123951	295.8
Aroclor-1260	5	12.254	0.000	52124	360.1	NS	---			----
Total Col1Ave (5 peaks):					372.4	Total Col2Ave (4 peaks):				289.2 RPD = 25
Corrected Ave (4 peaks):					361.1	Corrected Ave (3 peaks):				283.2 RPD = 24
CalAmt %D:					49.0	CalAmt %D:				15.7

Total PCB Area Col1 (5.908 - 13.798) = 2878331 Col1 Total PCB = 0.5 ppm*

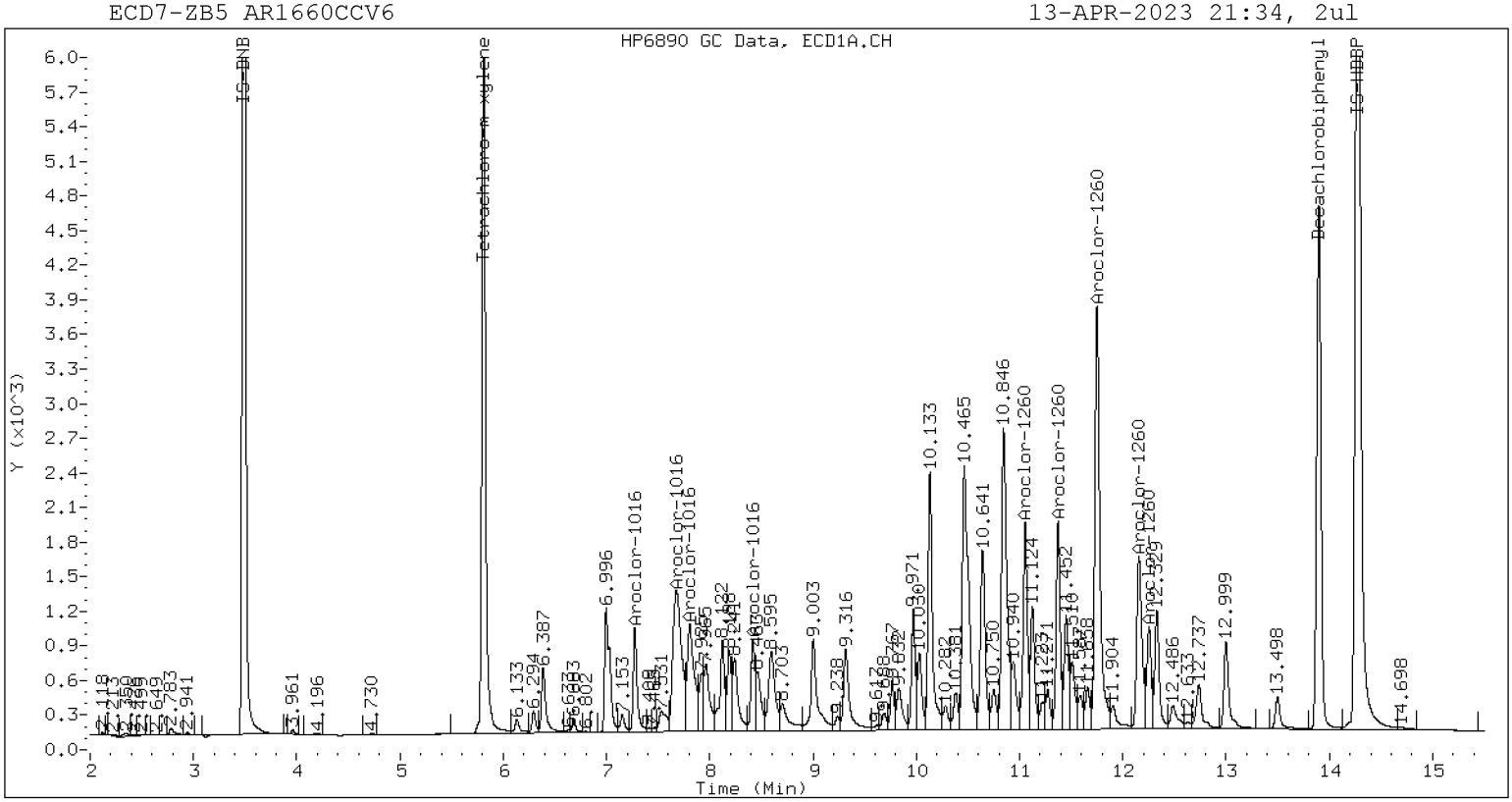
Total PCB Area Col2 (5.794 - 14.023) = 1855623 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

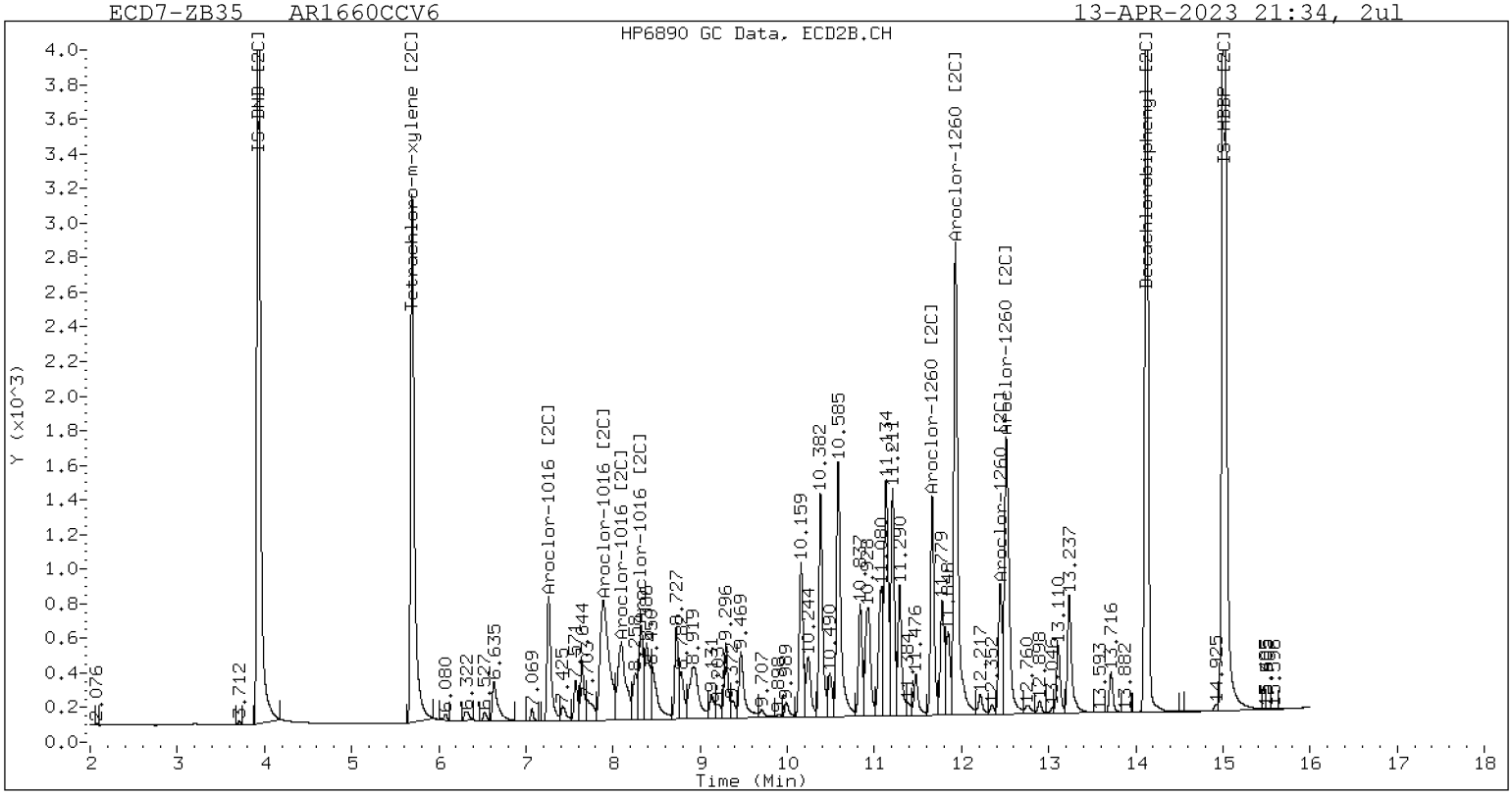
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV6 13-APR-2023 21:34, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV6 13-APR-2023 21:34, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	04132341ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLD0171	Injection Date:	04/14/23
Lab Sample ID:	SLD0171-CCV7	Injection Time:	01:01
Sequence Name:	AR1248CCV7		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	297	0.0574755	0.0719716		18.8	+/-20
Aroclor-1248 (1)	A	250.00	224		0.0349990			
Aroclor-1248 (2)	A	250.00	237		0.0469592			
Aroclor-1248 (3)	A	250.00	367		0.1372939			
Aroclor-1248 (4)	A	250.00	360		0.0686339			
Aroclor 1248 [2C]	A	250.00	244	0.0444270	0.0431082		-2.4	+/-20
Aroclor-1248 (1) [2C]	A	250.00	270		0.0413335			
Aroclor-1248 (2) [2C]	A	250.00	231		0.0364462			
Aroclor-1248 (3) [2C]	A	250.00	250		0.0454638			
Aroclor-1248 (4) [2C]	A	250.00	225		0.0491891			
Decachlorobiphenyl	A	40.000	39.3	0.7878687	0.7738539		-1.8	+/-20
Tetrachlorometaxylene	A	40.000	37.8	1.1944880	1.1290170		-5.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	39.5	1.2182710	1.2025780		-1.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	39.2	1.1737210	1.1493130		-2.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230413.b/04132341ECD7.D
Data file 2: /230413.b/230413.b/04132341ECD7.D
Method: \\target\share\chem4\ecd7.i\230413.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV7
Client ID:
Injection Date: 14-APR-2023 01:01
Report Date: 04/14/2023 09:02
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.000	291091	5.694	-0.000	187527	37.8	39.2	3.5	Tetrachloro-m-xylene
13.898	-0.001	189239	14.123	-0.000	207084	39.3	39.5	0.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	515654	-23.5
Hexabromobiphenyl	1429847	489082	-65.8 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	326329	3.5
Hexabromobiphenyl	513946	344400	-33.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.417	0.000	56398	224.2	1	8.320	0.000	42151	270.5
Aroclor-1248	2	8.596	-0.000	75671	236.6	2	8.726	0.000	37167	230.7
Aroclor-1248	3	8.999	-0.000	221238	366.7	3	9.195	0.000	46363	250.1
Aroclor-1248	4	9.308	-0.001	110598	360.1	4	9.625	0.000	50162	225.4
Total Col1Ave (4 peaks):					296.9	Total Col2Ave (4 peaks):				244.2 RPD = 19
Corrected Ave (3 peaks):					273.6	Corrected Ave (3 peaks):				235.4 RPD = 15
CalAmt %D:					18.8	CalAmt %D:				-2.3

Total PCB Area Col1 (5.908 - 13.798) = 1156281 Col1 Total PCB = 0.2 ppm*

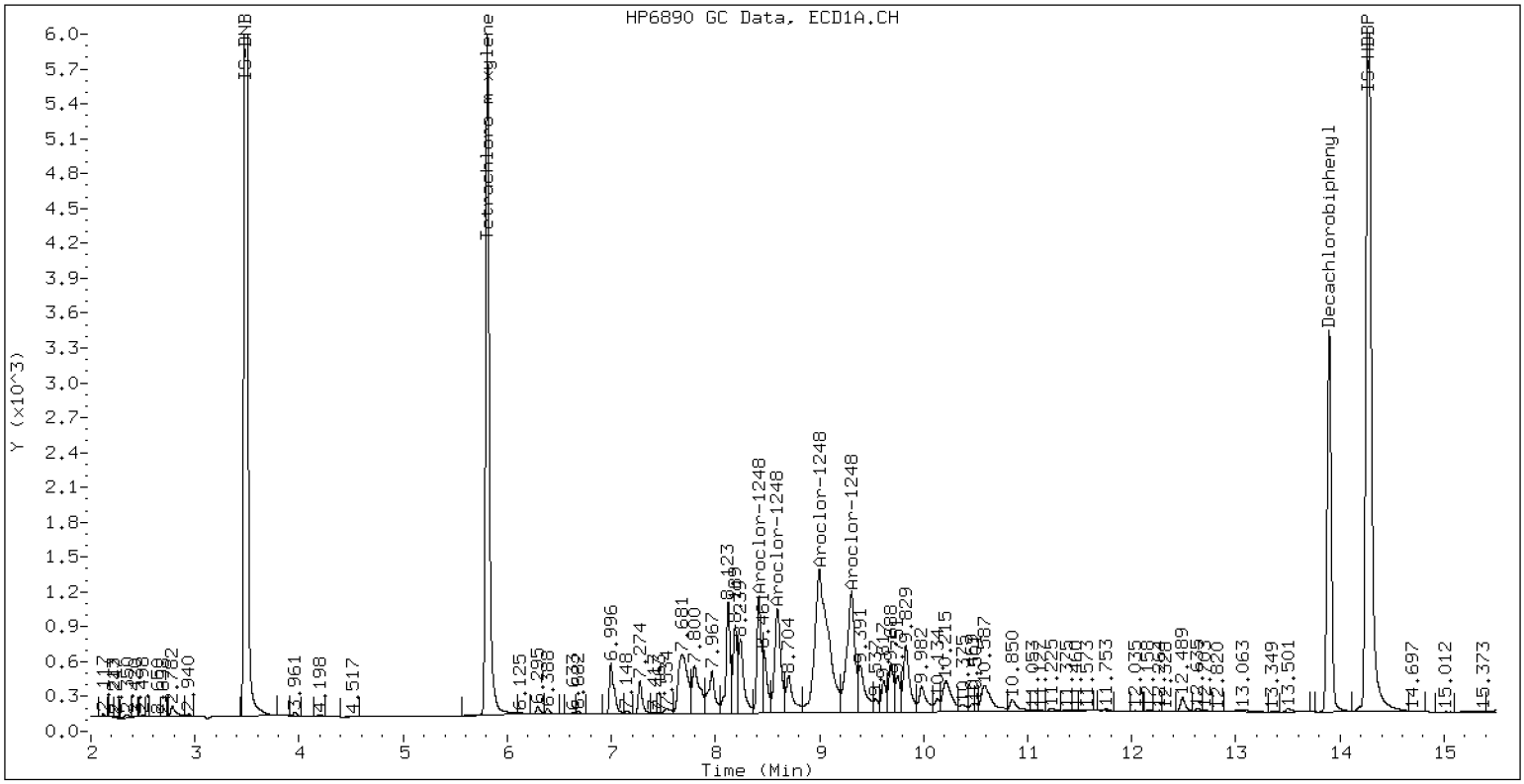
Total PCB Area Col2 (5.794 - 14.023) = 721522 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

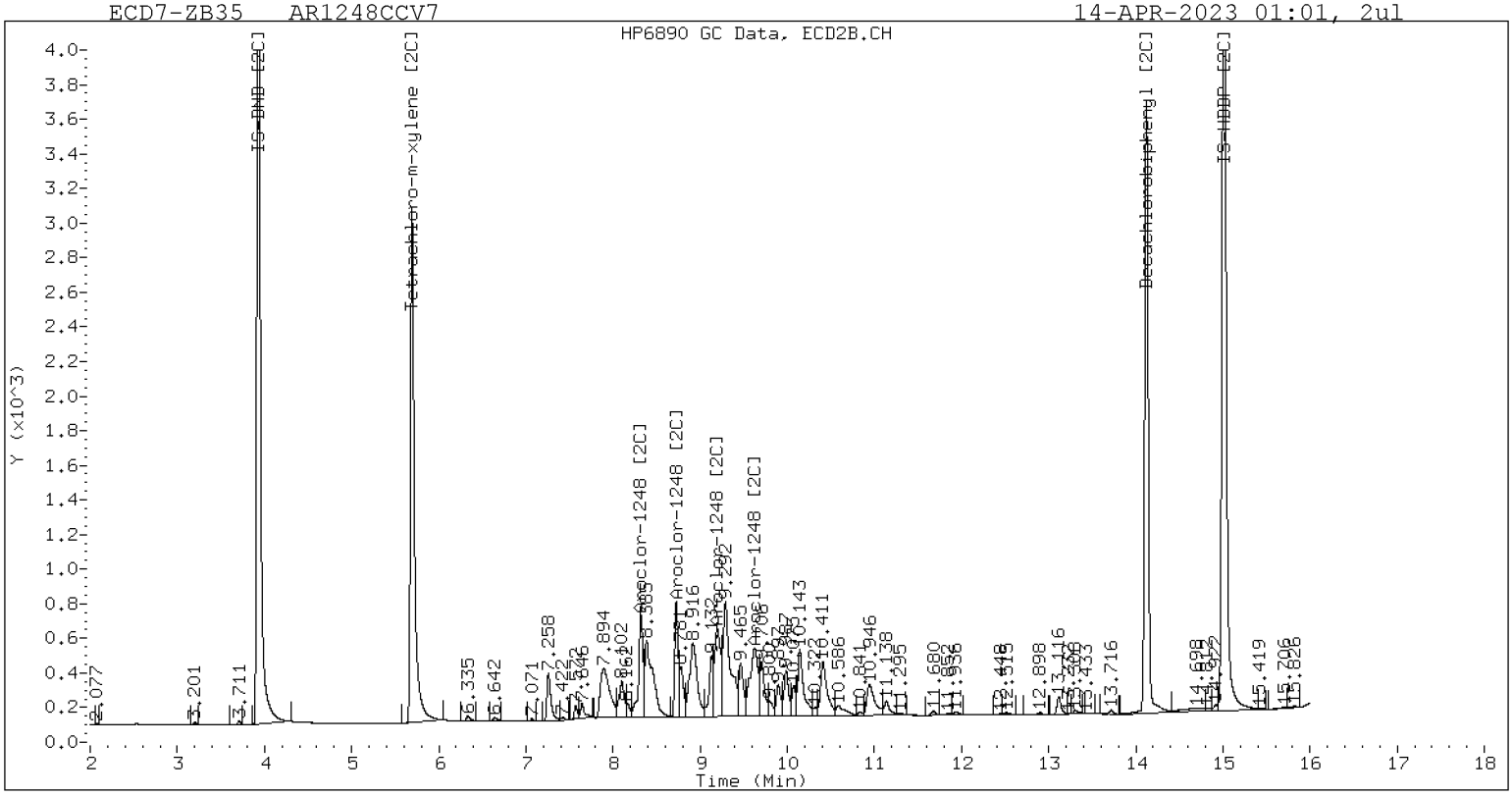
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV7 14-APR-2023 01:01, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV7 14-APR-2023 01:01, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	04132342ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLD0171	Injection Date:	04/14/23
Lab Sample ID:	SLD0171-CCV8	Injection Time:	01:22
Sequence Name:	AR1660CCV8		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1016	A	250.00	253	0.0493662	0.0497370		1.3	+/-20	
Aroclor-1016 (1)	A	250.00	249	0.0303852	0.0302493		-0.4		
Aroclor-1016 (2)	A	250.00	239	0.0926308	0.0886618		-4.4		
Aroclor-1016 (3)	A	250.00	292	0.0452180	0.0527811		16.8		
Aroclor-1016 (4)	A	250.00	233	0.0292307	0.0272557		-6.8		
Aroclor 1016 [2C]	A	250.00	282	0.0545857	0.0603372		12.6	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	254	0.0468313	0.0476091		1.6		
Aroclor-1016 (2) [2C]	A	250.00	264	0.0949676	0.1001081		5.6		
Aroclor-1016 (3) [2C]	A	250.00	319	0.0428922	0.0547237		27.6		
Aroclor-1016 (4) [2C]	A	250.00	289	0.0336515	0.0389077		15.6		
Aroclor 1260	A	250.00	374	0.0392091	0.0585993		49.6	+/-20	*
Aroclor-1260 (1)	A	250.00	428	0.0287785	0.0492749		71.2		
Aroclor-1260 (2)	A	250.00	398	0.0300690	0.0479379		59.2		
Aroclor-1260 (3)	A	250.00	380	0.0797517	0.1213351		52.0		
Aroclor-1260 (4)	A	250.00	312	0.0401599	0.0500816		24.8		
Aroclor-1260 (5)	A	250.00	352	0.0172866	0.0243668		40.8		
Aroclor 1260 [2C]	A	250.00	295	0.0699688	0.0846130		17.9	+/-20	
Aroclor-1260 (1) [2C]	A	250.00	306	0.0470406	0.0576420		22.4		
Aroclor-1260 (2) [2C]	A	250.00	315	0.1200523	0.1513020		26.0		
Aroclor-1260 (3) [2C]	A	250.00	260	0.0318590	0.0331832		4.0		
Aroclor-1260 (4) [2C]	A	250.00	298	0.0809231	0.0963248		19.2		
Decachlorobiphenyl	A	40.000	40.8	0.7878687	0.8037030		2.0	+/-20	
Tetrachlorometaxylene	A	40.000	39.8	1.1944880	1.1874690		-0.5	+/-20	
Decachlorobiphenyl [2C]	A	40.000	40.8	1.2182710	1.2414970		2.0	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	40.2	1.1737210	1.1810670		0.5	+/-20	

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230413.b/04132342ECD7.D
Data file 2: /230413.b/230413.b/04132342ECD7.D
Method: \\target\share\chem4\ecd7.i\230413.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV8
Client ID:
Injection Date: 14-APR-2023 01:22
Report Date: 04/14/2023 09:02
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.808	-0.000	311304	5.694	0.000	188744	39.8	40.3	1.2	Tetrachloro-m-xylene
13.897	-0.001	258712	14.123	0.000	247557	40.8	40.8	0.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	524315	-22.2
Hexabromobiphenyl	1429847	643800	-55.0 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	319616	1.4
Hexabromobiphenyl	513946	398804	-22.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.275	0.000	49563	248.9	1	7.261	0.000	47552	254.2
Aroclor-1016	2	7.676	-0.001	145271	239.3	2	7.890	0.000	99988	263.5
Aroclor-1016	3	7.806	0.002	86481	291.8	3	8.095	0.000	54658	319.0
Aroclor-1016	4	8.417	0.001	44658	233.1	4	8.320	0.000	38861	289.0
Total Col1Ave (4 peaks):					253.3	Total Col2Ave (4 peaks):				281.4 RPD = 11
Corrected Ave (3 peaks):					240.4	Corrected Ave (3 peaks):				268.9 RPD = 11
CalAmt %D:					1.3	CalAmt %D:				12.6
Aroclor-1260	1	11.055	-0.000	99135	428.1	1	11.663	0.000	71837	306.3
Aroclor-1260	2	11.371	-0.001	96445	398.6	2	11.930	0.000	188562	315.1
Aroclor-1260	3	11.747	-0.002	244111	380.4	3	12.444	0.000	41355	260.4
Aroclor-1260	4	12.155	-0.002	100758	311.8	4	12.514	0.000	120046	297.6
Aroclor-1260	5	12.252	-0.001	49023	352.4	NS	---			----
Total Col1Ave (5 peaks):					374.2	Total Col2Ave (4 peaks):				294.8 RPD = 24
Corrected Ave (4 peaks):					360.8	Corrected Ave (3 peaks):				288.1 RPD = 22
CalAmt %D:					49.7	CalAmt %D:				17.9

Total PCB Area Col1 (5.908 - 13.798) = 2823733 Col1 Total PCB = 0.5 ppm*

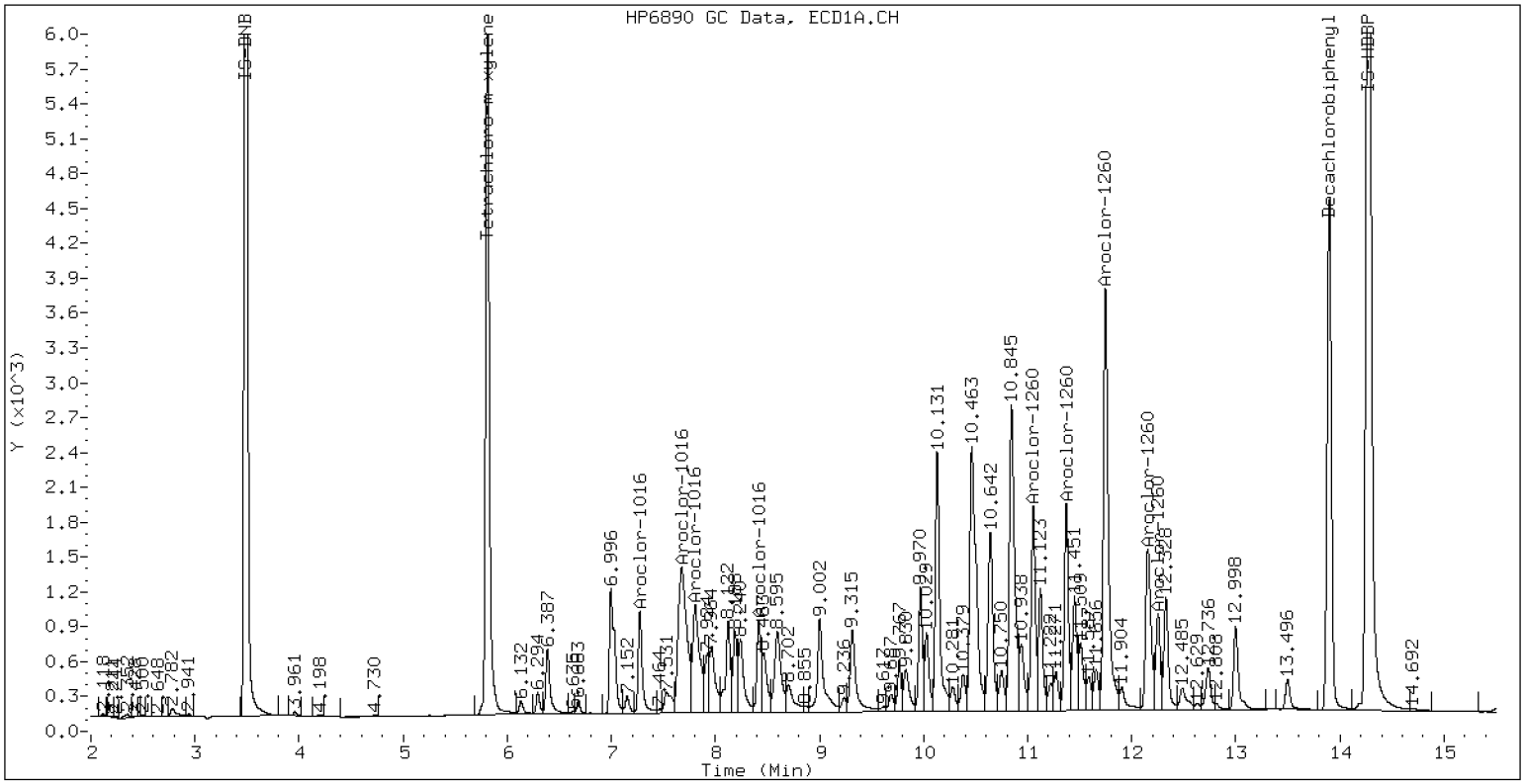
Total PCB Area Col2 (5.794 - 14.023) = 1825209 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

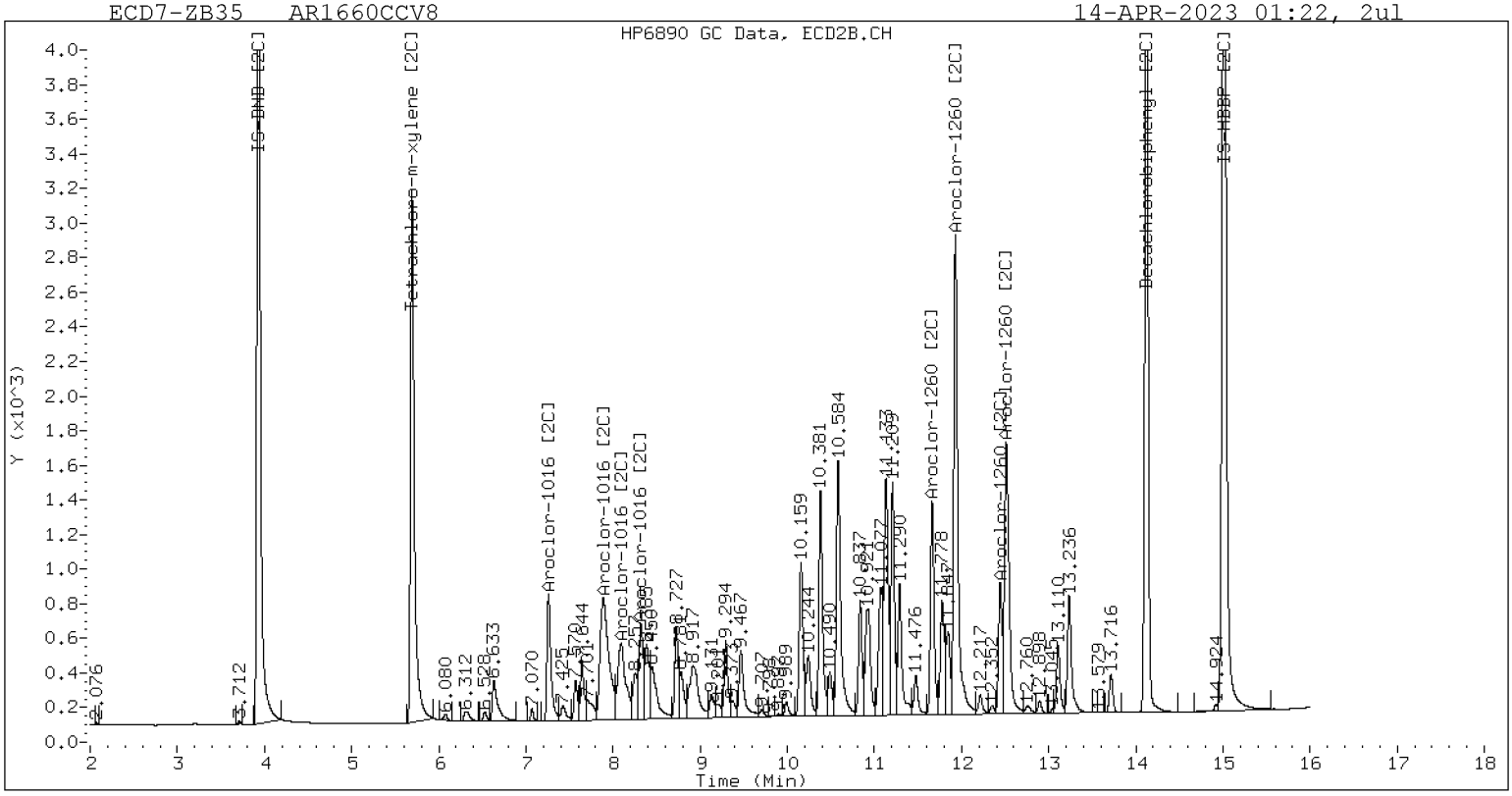
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV8 14-APR-2023 01:22, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV8 14-APR-2023 01:22, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLB0342
Instrument: ECD7
Calibration: GB00069

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Cal Standard	SLB0342-CAL1	02242302ECD7.D	02242302ECD7.D	NA	02/24/23 11:12
Cal Standard	SLB0342-CAL2	02242303ECD7.D	02242303ECD7.D	NA	02/24/23 11:33
Cal Standard	SLB0342-CAL3	02242304ECD7.D	02242304ECD7.D	NA	02/24/23 11:54
Cal Standard	SLB0342-CAL4	02242305ECD7.D	02242305ECD7.D	NA	02/24/23 12:15
Cal Standard	SLB0342-CAL5	02242306ECD7.D	02242306ECD7.D	NA	02/24/23 12:36
Cal Standard	SLB0342-CAL6	02242307ECD7.D	02242307ECD7.D	NA	02/24/23 12:57
Cal Standard	SLB0342-CAL7	02242308ECD7.D	02242308ECD7.D	NA	02/24/23 13:18
Cal Standard	SLB0342-CAL8	02242309ECD7.D	02242309ECD7.D	NA	02/24/23 13:39
Cal Standard	SLB0342-CAL9	02242310ECD7.D	02242310ECD7.D	NA	02/24/23 14:00
Cal Standard	SLB0342-CALA	02242311ECD7.D	02242311ECD7.D	NA	02/24/23 14:21
Cal Standard	SLB0342-CALB	02242312ECD7.D	02242312ECD7.D	NA	02/24/23 14:42
Secondary Cal Check	SLB0342-SCV1	02242313ECD7.D	02242313ECD7.D	NA	02/24/23 15:03
Secondary Cal Check	SLB0342-SCV2	02242314ECD7.D	02242314ECD7.D	NA	02/24/23 15:24
Secondary Cal Check	SLB0342-SCV3	02242315ECD7.D	02242315ECD7.D	NA	02/24/23 15:45
Secondary Cal Check	SLB0342-SCV4	02242316ECD7.D	02242316ECD7.D	NA	02/24/23 16:06
Secondary Cal Check	SLB0342-SCV5	02242317ECD7.D	02242317ECD7.D	NA	02/24/23 16:27
Secondary Cal Check	SLB0342-SCV6	02242318ECD7.D	02242318ECD7.D	NA	02/24/23 16:48

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0150
Instrument: ECD7
Calibration: GB00069

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Initial Cal Check	SLD0150-ICV1	04122310ECD7.D	04122310ECD7.D	NA	04/12/23 12:01
Initial Cal Check	SLD0150-ICV2	04122311ECD7.D	04122311ECD7.D	NA	04/12/23 12:21
Calibration Check	SLD0150-CCV1	04122322ECD7.D	04122322ECD7.D	NA	04/12/23 16:10
Calibration Check	SLD0150-CCV2	04122323ECD7.D	04122323ECD7.D	NA	04/12/23 16:31
Calibration Check	SLD0150-CCV3	04122334ECD7.D	04122334ECD7.D	NA	04/12/23 20:19
Calibration Check	SLD0150-CCV4	04122335ECD7.D	04122335ECD7.D	NA	04/12/23 20:40
Blank	BLD0010-BLK1	04122338ECD7.D	04122338ECD7.D	Solid	04/12/23 21:42
LCS	BLD0010-BS1	04122339ECD7.D	04122339ECD7.D	Solid	04/12/23 22:02
LCS Dup	BLD0010-BSD1	04122340ECD7.D	04122340ECD7.D	Solid	04/12/23 22:23
Reference	BLD0010-SRM1	04122341ECD7.D	04122341ECD7.D	Solid	04/12/23 22:44
LDW23-SS1026	23C0752-01	04122342ECD7.D	04122342ECD7.D	Solid	04/12/23 23:05
LDW23-SS1125	23C0752-02	04122343ECD7.D	04122343ECD7.D	Solid	04/12/23 23:25
LDW23-SS1132	23C0752-03	04122344ECD7.D	04122344ECD7.D	Solid	04/12/23 23:46
LDW23-SS1810	23C0752-04	04122345ECD7.D	04122345ECD7.D	Solid	04/13/23 00:07
LDW23-SC1810	23C0752-05	04122346ECD7.D	04122346ECD7.D	Solid	04/13/23 00:28
LDW23-SC1810	BLD0010-MS1	04122347ECD7.D	04122347ECD7.D	Solid	04/13/23 00:48
LDW23-SC1810	BLD0010-MSD1	04122348ECD7.D	04122348ECD7.D	Solid	04/13/23 01:09
LDW23-SC1809	23C0752-07	04122350ECD7.D	04122350ECD7.D	Solid	04/13/23 01:50
Calibration Check	SLD0150-CCV5	04122351ECD7.D	04122351ECD7.D	NA	04/13/23 02:11
Calibration Check	SLD0150-CCV6	04122352ECD7.D	04122352ECD7.D	NA	04/13/23 02:32

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLD0150

Instrument: ECD7
Calibration ID: GB00069

Printed: 4/13/2023 10:24:59AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLD0150-ICV1	QC		1		L000862	L000844		
SLD0150-ICV2	QC		2		L000856	L000844		
BLD0186-BLK1	QC		3			L000844		
BLD0186-BS1	QC		4			L000844		
BLD0186-BSD1	QC		5			L000844		
BLD0248-BLK1	QC		6			L000844		
BLD0248-BS1	QC		7			L000844		
BLD0248-BSD1	QC		8			L000844		
23D0207-01	8.3 PCBs 0.01 ug/L or 20 ug/	A 01	9			L000844	Schnitzer Steel	Please run low-level check standards , (
23D0208-01	8.3 PCBs 0.01 ug/L or 20 ug/	A 01	10			L000844	Schnitzer Steel	Please run low-level check standards , (
SLD0150-CCV1	QC		11		L000861	L000844		
SLD0150-CCV2	QC		12		L000856	L000844		
23D0139-01	8082A PCB Water 0.01	D 01	13			L000844	The Boeing Company [BDS Stormwaters]	
23D0139-02	8082A PCB Water 0.01	D 01	14			L000844	The Boeing Company [BDS Stormwaters]	
23D0139-03	8082A PCB Water 0.01	D 01	15			L000844	The Boeing Company [BDS Stormwaters]	
23D0139-04	8082A PCB Water 0.01	D 01	16			L000844	The Boeing Company [BDS Stormwaters]	
23D0139-05	8082A PCB Water 0.01	D 01	17			L000844	The Boeing Company [BDS Stormwaters]	
23D0139-06	8082A PCB Water 0.01	C 01	18			L000844	The Boeing Company [BDS Stormwaters]	
23D0142-01	8.3 PCBs 0.01 ug/L or 20 ug/	B 01	19			L000844	Nucor Steel Corporation	
23D0143-01	8082A PCB Water 0.01	B 01	20			L000844	The Boeing Company [BDS Stormwaters]	
23D0143-02	8082A PCB Water 0.01	B 01	21			L000844	The Boeing Company [BDS Stormwaters]	

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SLD0150

Instrument: ECD7
Calibration ID: GB00069

Printed: 4/13/2023 10:24:59AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
23D0143-03	8082A PCB Water 0.01	B 01	22			L000844	The Boeing Company [BDS Stormwaters]	
SLD0150-CCV3	QC		23		L000860	L000844		
SLD0150-CCV4	QC		24		L000856	L000844		
23D0143-05	8082A PCB Water 0.01	B 01	25			L000844	The Boeing Company [BDS Stormwaters]	
23D0143-06	8082A PCB Water 0.01	B 01	26			L000844	The Boeing Company [BDS Stormwaters]	
BLD0010-BLK1	QC		27			L000844		
BLD0010-BS1	QC		28			L000844		
BLD0010-SRM1	QC		29			L000844		
BLD0010-BSD1	QC		30			L000844		
23C0752-01	8082A PCB Solid 4	A 04	31			L000844	Anchor QEA, LLC	
23C0752-02	8082A PCB Solid 4	A 04	32			L000844	Anchor QEA, LLC	
23C0752-03	8082A PCB Solid 4	A 04	33			L000844	Anchor QEA, LLC	
23C0752-04	8082A PCB Solid 4	A 04	34			L000844	Anchor QEA, LLC	
23C0752-05	8082A PCB Solid 4	A 04	35			L000844	Anchor QEA, LLC	
BLD0010-MS1	QC		36			L000844		
BLD0010-MSD1	QC		37			L000844		
23C0752-07	8082A PCB Solid 4	A 01	38			L000844	Anchor QEA, LLC	
SLD0150-CCV5	QC		39		L000862	L000844		
SLD0150-CCV6	QC		40		L000856	L000844		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230412.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	12-APR-2023 08:54	04122301ECD7.D	1	AR1254	
2	12-APR-2023 09:15	04122302ECD7.D	1	AR1660	
3	12-APR-2023 09:35	04122303ECD7.D	1	AR1660SCV	
4	12-APR-2023 09:56	04122304ECD7.D	1	AR1248	
5	12-APR-2023 10:17	04122305ECD7.D	1	AR1242	
6	12-APR-2023 10:38	04122306ECD7.D	1	BLD0025-BS1SVOA	
7	12-APR-2023 10:58	04122307ECD7.D	1	AR1660SCV	
8	12-APR-2023 11:19	04122308ECD7.D	1	DDTS	
9	12-APR-2023 11:40	04122309ECD7.D	1	AR1660SCV1	
10	12-APR-2023 12:01	04122310ECD7.D	1	AR1254ICV1	
11	12-APR-2023 12:21	04122311ECD7.D	1	AR1660ICV2	
12	12-APR-2023 12:42	04122312ECD7.D	1	BLD0186-BLK1	
13	12-APR-2023 13:03	04122313ECD7.D	1	BLD0186-BS1	
14	12-APR-2023 13:24	04122314ECD7.D	1	BLD0186-BSD1	
15	12-APR-2023 13:44	04122315ECD7.D	1	BLD0248-BLK1	
16	12-APR-2023 14:05	04122316ECD7.D	1	BLD0248-BS1	
17	12-APR-2023 14:26	04122317ECD7.D	1	BLD0248-BSD1	
18	12-APR-2023 14:47	04122318ECD7.D	1	23D0207-01	
19	12-APR-2023 15:07	04122319ECD7.D	1	23D0208-01	
20	12-APR-2023 15:28	04122320ECD7.D	5	23D0207-01RE1	
21	12-APR-2023 15:49	04122321ECD7.D	5	23D0208-01RE1	
22	12-APR-2023 16:10	04122322ECD7.D	1	AR1248CCV1	
23	12-APR-2023 16:31	04122323ECD7.D	1	AR1660CCV2	
24	12-APR-2023 16:51	04122324ECD7.D	1	23D0139-01	
25	12-APR-2023 17:12	04122325ECD7.D	1	23D0139-02	
26	12-APR-2023 17:33	04122326ECD7.D	1	23D0139-03	
27	12-APR-2023 17:54	04122327ECD7.D	1	23D0139-04	
28	12-APR-2023 18:14	04122328ECD7.D	1	23D0139-05	
29	12-APR-2023 18:35	04122329ECD7.D	1	23D0139-06	
30	12-APR-2023 18:56	04122330ECD7.D	1	23D0142-01	
31	12-APR-2023 19:17	04122331ECD7.D	1	23D0143-01	
32	12-APR-2023 19:37	04122332ECD7.D	1	23D0143-02	
33	12-APR-2023 19:58	04122333ECD7.D	1	23D0143-03	
34	12-APR-2023 20:19	04122334ECD7.D	1	AR1242CCV3	
35	12-APR-2023 20:40	04122335ECD7.D	1	AR1660CCV4	
36	12-APR-2023 21:00	04122336ECD7.D	1	23D0143-05	
37	12-APR-2023 21:21	04122337ECD7.D	1	23D0143-06	
38	12-APR-2023 21:42	04122338ECD7.D	1	BLD0010-BLK1	
39	12-APR-2023 22:02	04122339ECD7.D	1	BLD0010-BS1	
40	12-APR-2023 22:23	04122340ECD7.D	1	BLD0010-BSD1	
41	12-APR-2023 22:44	04122341ECD7.D	1	BLD0010-SRM1	
42	12-APR-2023 23:05	04122342ECD7.D	1	23C0752-01	
43	12-APR-2023 23:25	04122343ECD7.D	1	23C0752-02	
44	12-APR-2023 23:46	04122344ECD7.D	1	23C0752-03	
45	13-APR-2023 00:07	04122345ECD7.D	1	23C0752-04	
46	13-APR-2023 00:28	04122346ECD7.D	1	23C0752-05	
47	13-APR-2023 00:48	04122347ECD7.D	1	BLD0010-MS1	
48	13-APR-2023 01:09	04122348ECD7.D	1	BLD0010-MSD1	
49	13-APR-2023 01:30	04122349ECD7.D	1	23C0752-06	
50	13-APR-2023 01:50	04122350ECD7.D	1	23C0752-07	

	Inject Date/Time	Filename	DF	LabID	ClientID
51	13-APR-2023 02:11	04122351ECD7.D	1	AR1254CCV5	
52	13-APR-2023 02:32	04122352ECD7.D	1	AR1660CCV6	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230412.b

ARI Job No.: AR12 Method: PCB.m Instrument: ecd7.i Date: 12-APR-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0854	04122301ECD7.D	AR1254		1	NO MANUAL INTEGRATION
0915	04122302ECD7.D	AR1660		1	NO MANUAL INTEGRATION
0935	04122303ECD7.D	AR1660SCV		1	NO MANUAL INTEGRATION
0956	04122304ECD7.D	AR1248		1	NO MANUAL INTEGRATION
1017	04122305ECD7.D	AR1242		1	NO MANUAL INTEGRATION
1038	04122306ECD7.D	BLD0025-BS1SV0A		1	NO MANUAL INTEGRATION
1058	04122307ECD7.D	AR1660SCV		1	NO MANUAL INTEGRATION
1119	04122308ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1140	04122309ECD7.D	AR1660SCV1		1	NO MANUAL INTEGRATION
1201	04122310ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
1221	04122311ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
1242	04122312ECD7.D	BLD0186-BLK1		1	NO MANUAL INTEGRATION
1303	04122313ECD7.D	BLD0186-BS1		1	NO MANUAL INTEGRATION
1324	04122314ECD7.D	BLD0186-BSD1		1	NO MANUAL INTEGRATION
1344	04122315ECD7.D	BLD0248-BLK1		1	NO MANUAL INTEGRATION
1405	04122316ECD7.D	BLD0248-BS1		1	NO MANUAL INTEGRATION
1426	04122317ECD7.D	BLD0248-BSD1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230412.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1447	04122318ECD7.D	23D0207-01		1	Aroclor-1248, Aroclor-1254,
1507	04122319ECD7.D	23D0208-01		1	NO MANUAL INTEGRATION
1528	04122320ECD7.D	23D0207-01RE1		5	Aroclor-1248, Aroclor-1254,
1549	04122321ECD7.D	23D0208-01RE1		5	Aroclor-1248, Aroclor-1254,
1610	04122322ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1631	04122323ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1651	04122324ECD7.D	23D0139-01		1	Aroclor-1248, Aroclor-1254,
1712	04122325ECD7.D	23D0139-02		1	NO MANUAL INTEGRATION
1733	04122326ECD7.D	23D0139-03		1	NO MANUAL INTEGRATION
1754	04122327ECD7.D	23D0139-04		1	NO MANUAL INTEGRATION
1814	04122328ECD7.D	23D0139-05		1	NO MANUAL INTEGRATION
1835	04122329ECD7.D	23D0139-06		1	NO MANUAL INTEGRATION
1856	04122330ECD7.D	23D0142-01		1	NO MANUAL INTEGRATION
1917	04122331ECD7.D	23D0143-01		1	NO MANUAL INTEGRATION
1937	04122332ECD7.D	23D0143-02		1	NO MANUAL INTEGRATION
1958	04122333ECD7.D	23D0143-03		1	NO MANUAL INTEGRATION
2019	04122334ECD7.D	AR1242CCV3		1	NO MANUAL INTEGRATION
2040	04122335ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230412.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2100	04122336ECD7.D	23D0143-05		1	NO MANUAL INTEGRATION
2121	04122337ECD7.D	23D0143-06		1	NO MANUAL INTEGRATION
2142	04122338ECD7.D	BLD0010-BLK1		1	NO MANUAL INTEGRATION
2202	04122339ECD7.D	BLD0010-BS1		1	NO MANUAL INTEGRATION
2223	04122340ECD7.D	BLD0010-BSD1		1	NO MANUAL INTEGRATION
2244	04122341ECD7.D	BLD0010-SRM1		1	NO MANUAL INTEGRATION
2305	04122342ECD7.D	23C0752-01		1	Aroclor-1254,
2325	04122343ECD7.D	23C0752-02		1	Aroclor-1254,
2346	04122344ECD7.D	23C0752-03		1	Aroclor-1254,
0007	04122345ECD7.D	23C0752-04		1	Aroclor-1254,
0028	04122346ECD7.D	23C0752-05		1	Aroclor-1254,
0048	04122347ECD7.D	BLD0010-MS1		1	NO MANUAL INTEGRATION
0109	04122348ECD7.D	BLD0010-MSD1		1	NO MANUAL INTEGRATION
0130	04122349ECD7.D	23C0752-06		1	NO MANUAL INTEGRATION
0150	04122350ECD7.D	23C0752-07		1	Aroclor-1254,
0211	04122351ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
0232	04122352ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION
0854	04122301ECD7.D	AR1254		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230412.b\230412.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0915	04122302ECD7.D	AR1660		1	NO MANUAL INTEGRATION
0935	04122303ECD7.D	AR1660SCV		1	NO MANUAL INTEGRATION
0956	04122304ECD7.D	AR1248		1	NO MANUAL INTEGRATION
1017	04122305ECD7.D	AR1242		1	NO MANUAL INTEGRATION
1038	04122306ECD7.D	BLD0025-BS1SV0A		1	NO MANUAL INTEGRATION
1058	04122307ECD7.D	AR1660SCV		1	NO MANUAL INTEGRATION
1119	04122308ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1140	04122309ECD7.D	AR1660SCV1		1	Aroclor-1016 [2C],
1201	04122310ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
1221	04122311ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
1242	04122312ECD7.D	BLD0186-BLK1		1	NO MANUAL INTEGRATION
1303	04122313ECD7.D	BLD0186-BS1		1	NO MANUAL INTEGRATION
1324	04122314ECD7.D	BLD0186-BSD1		1	NO MANUAL INTEGRATION
1344	04122315ECD7.D	BLD0248-BLK1		1	NO MANUAL INTEGRATION
1405	04122316ECD7.D	BLD0248-BS1		1	NO MANUAL INTEGRATION
1426	04122317ECD7.D	BLD0248-BSD1		1	NO MANUAL INTEGRATION
1447	04122318ECD7.D	23D0207-01		1	Aroclor-1248 [2C], Aroclor-1260 [2C],
1507	04122319ECD7.D	23D0208-01		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230412.b\230412.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1528	04122320ECD7.D	23D0207-01RE1		5	Aroclor-1248 [2C], Aroclor-1260 [2C],
1549	04122321ECD7.D	23D0208-01RE1		5	Aroclor-1248 [2C], Aroclor-1260 [2C],
1610	04122322ECD7.D	AR1248CCV1		1	Aroclor-1248 [2C],
1631	04122323ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1651	04122324ECD7.D	23D0139-01		1	Aroclor-1248 [2C],
1712	04122325ECD7.D	23D0139-02		1	NO MANUAL INTEGRATION
1733	04122326ECD7.D	23D0139-03		1	NO MANUAL INTEGRATION
1754	04122327ECD7.D	23D0139-04		1	NO MANUAL INTEGRATION
1814	04122328ECD7.D	23D0139-05		1	NO MANUAL INTEGRATION
1835	04122329ECD7.D	23D0139-06		1	NO MANUAL INTEGRATION
1856	04122330ECD7.D	23D0142-01		1	NO MANUAL INTEGRATION
1917	04122331ECD7.D	23D0143-01		1	NO MANUAL INTEGRATION
1937	04122332ECD7.D	23D0143-02		1	NO MANUAL INTEGRATION
1958	04122333ECD7.D	23D0143-03		1	NO MANUAL INTEGRATION
2019	04122334ECD7.D	AR1242CCV3		1	NO MANUAL INTEGRATION
2040	04122335ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION
2100	04122336ECD7.D	23D0143-05		1	NO MANUAL INTEGRATION
2121	04122337ECD7.D	23D0143-06		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230412.b\230412.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2142	04122338ECD7.D	BLD0010-BLK1		1	NO MANUAL INTEGRATION
2202	04122339ECD7.D	BLD0010-BS1		1	NO MANUAL INTEGRATION
2223	04122340ECD7.D	BLD0010-BSD1		1	NO MANUAL INTEGRATION
2244	04122341ECD7.D	BLD0010-SRM1		1	NO MANUAL INTEGRATION
2305	04122342ECD7.D	23C0752-01		1	Aroclor-1248 [2C],
2325	04122343ECD7.D	23C0752-02		1	Aroclor-1248 [2C],
2346	04122344ECD7.D	23C0752-03		1	NO MANUAL INTEGRATION
0007	04122345ECD7.D	23C0752-04		1	Aroclor-1248 [2C],
0028	04122346ECD7.D	23C0752-05		1	Aroclor-1248 [2C],
0048	04122347ECD7.D	BLD0010-MS1		1	NO MANUAL INTEGRATION
0109	04122348ECD7.D	BLD0010-MSD1		1	NO MANUAL INTEGRATION
0130	04122349ECD7.D	23C0752-06		1	NO MANUAL INTEGRATION
0150	04122350ECD7.D	23C0752-07		1	Aroclor-1248 [2C],
0211	04122351ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
0232	04122352ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION

Security Status Report

Date: 13-Apr-2023 10:23

04122301ECD7.D	Data Locked	richardl, 12-Apr-2023 16:53
04122302ECD7.D	Data Locked	richardl, 12-Apr-2023 16:53
04122303ECD7.D	Data Locked	richardl, 12-Apr-2023 16:53
04122304ECD7.D	Data Locked	richardl, 12-Apr-2023 16:53
04122305ECD7.D	Data Locked	richardl, 12-Apr-2023 16:53
04122306ECD7.D	Data Locked	richardl, 12-Apr-2023 16:53
04122307ECD7.D	Data Locked	richardl, 12-Apr-2023 16:53
04122308ECD7.D	Data Locked	richardl, 12-Apr-2023 16:53
04122309ECD7.D	Data Locked	richardl, 12-Apr-2023 16:53
04122310ECD7.D	Data Locked	richardl, 12-Apr-2023 16:53
04122311ECD7.D	Data Locked	richardl, 12-Apr-2023 16:53
04122312ECD7.D	Data Locked	richardl, 12-Apr-2023 16:53
04122313ECD7.D	Data Locked	richardl, 12-Apr-2023 16:53
04122314ECD7.D	Data Locked	richardl, 12-Apr-2023 16:53
04122315ECD7.D	Data Locked	richardl, 12-Apr-2023 16:53
04122316ECD7.D	Data Locked	richardl, 12-Apr-2023 16:53
04122317ECD7.D	Data Locked	richardl, 12-Apr-2023 16:53
04122318ECD7.D	Data Locked	richardl, 12-Apr-2023 16:53
04122319ECD7.D	Data Locked	richardl, 12-Apr-2023 16:53
04122320ECD7.D	Data Locked	richardl, 12-Apr-2023 16:53
04122321ECD7.D	Data Locked	richardl, 12-Apr-2023 16:53
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04122323ECD7.D	Data Locked	richardl, 12-Apr-2023 16:53
04122324ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23
04122325ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23
04122326ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23
04122327ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23
04122328ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23
04122329ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23
04122330ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23
04122331ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23
04122332ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23
04122333ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23
04122334ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23
04122335ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23
04122336ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23
04122337ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23
04122338ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23
04122339ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23
04122340ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23
04122341ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23
04122342ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23
04122343ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23
04122344ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23

04122345ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23
04122346ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23
04122347ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23
04122348ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23
04122349ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23
04122350ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23
04122351ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23
04122352ECD7.D	Data Locked	richardl, 13-Apr-2023 10:23

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0171	Instrument:	ECD7
		Calibration:	GB00069

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Initial Cal Check	SLD0171-ICV1	04132302ECD7.D	04132302ECD7.D	NA	04/13/23 09:33
Initial Cal Check	SLD0171-ICV2	04132303ECD7.D	04132303ECD7.D	NA	04/13/23 09:54
LDW23-SS1809	23C0752-06	04132304ECD7.D	04132304ECD7.D	Solid	04/13/23 10:15
Calibration Check	SLD0171-CCV1	04132305ECD7.D	04132305ECD7.D	NA	04/13/23 10:35
Calibration Check	SLD0171-CCV2	04132306ECD7.D	04132306ECD7.D	NA	04/13/23 10:56
Calibration Check	SLD0171-CCV3	04132312ECD7.D	04132312ECD7.D	NA	04/13/23 15:00
Calibration Check	SLD0171-CCV4	04132313ECD7.D	04132313ECD7.D	NA	04/13/23 15:20
Calibration Check	SLD0171-CCV5	04132330ECD7.D	04132330ECD7.D	NA	04/13/23 21:13
Calibration Check	SLD0171-CCV6	04132331ECD7.D	04132331ECD7.D	NA	04/13/23 21:34
Calibration Check	SLD0171-CCV7	04132341ECD7.D	04132341ECD7.D	NA	04/14/23 01:01
Calibration Check	SLD0171-CCV8	04132342ECD7.D	04132342ECD7.D	NA	04/14/23 01:22

ANALYSIS SEQUENCE

SLD0171

Instrument: ECD7
Calibration ID: GB00069

Printed: 4/13/2023 11:23:39AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLD0171-ICV1	QC		1			L000844		
SLD0171-ICV2	QC		2			L000844		
23C0752-06	8082A PCB Solid 4	A 04	3			L000844	Anchor QEA, LLC	
SLD0171-CCV1	QC		4		L000861	L000844		
SLD0171-CCV2	QC		5		L000856	L000844		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230413.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	13-APR-2023 09:13	04132301ECD7.D	1	DDTS	
2	13-APR-2023 09:33	04132302ECD7.D	1	AR1254ICV1	
3	13-APR-2023 09:54	04132303ECD7.D	1	AR1660ICV2	
4	13-APR-2023 10:15	04132304ECD7.D	1	23C0752-06	
5	13-APR-2023 10:35	04132305ECD7.D	1	AR1248CCV1	
6	13-APR-2023 10:56	04132306ECD7.D	1	AR1660CCV2	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230413.b

ARI Job No.: DDTS Method: PCB.m Instrument: ecd7.i Date: 13-APR-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0913	04132301ECD7.D	DDTS		1	NO MANUAL INTEGRATION
0933	04132302ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
0954	04132303ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
1015	04132304ECD7.D	23C0752-06		1	NO MANUAL INTEGRATION
1035	04132305ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1056	04132306ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
0913	04132301ECD7.D	DDTS		1	NO MANUAL INTEGRATION
0933	04132302ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
0954	04132303ECD7.D	AR1660ICV2		1	Aroclor-1016 [2C],
1015	04132304ECD7.D	23C0752-06		1	NO MANUAL INTEGRATION
1035	04132305ECD7.D	AR1248CCV1		1	Aroclor-1248 [2C],
1056	04132306ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION

Security Status Report

Date: 13-Apr-2023 11:22

04132301ECD7.D	Data Locked	richardl, 13-Apr-2023 11:21
04132302ECD7.D	Data Locked	richardl, 13-Apr-2023 11:21
04132303ECD7.D	Data Locked	richardl, 13-Apr-2023 11:21
04132304ECD7.D	Data Locked	richardl, 13-Apr-2023 11:21
04132305ECD7.D	Data Locked	richardl, 13-Apr-2023 11:21
04132306ECD7.D	Data Locked	richardl, 13-Apr-2023 11:21

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLD0171

Instrument: ECD7
Calibration ID: GB00069

Printed: 4/14/2023 9:33:29AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLD0171-ICV1	QC		1		L000862	L000844		
SLD0171-ICV2	QC		2		L000856	L000844		
23C0752-06	8082A PCB Solid 4	A 04	3			L000844	Anchor QEA, LLC	
SLD0171-CCV1	QC		4		L000861	L000844		
SLD0171-CCV2	QC		5		L000856	L000844		
BLD0239-BLK1	QC		6			L000844		
BLD0239-BS1	QC		7			L000844		
BLD0239-BSD1	QC		8			L000844		
23D0183-02	8082A PCB	A 01	9			L000844	The Boeing Company [Auburn]	
23D0183-03	8082A PCB	A 01	10			L000844	The Boeing Company [Auburn]	
SLD0171-CCV3	QC		11		L000860	L000844		
SLD0171-CCV4	QC		12		L000856	L000844		
BLD0059-BLK1	QC		13			L000844		
BLD0059-BS1	QC		14			L000844		
BLD0059-BSD1	QC		15			L000844		
BLD0059-SRM1	QC		16			L000844		
23C0774-01	8082A PCB Solid 4	A 04	17			L000844	Anchor QEA, LLC	
23C0774-02	8082A PCB Solid 4	A 04	18			L000844	Anchor QEA, LLC	
23C0774-03	8082A PCB Solid 4	A 04	19			L000844	Anchor QEA, LLC	
BLD0059-MS1	QC		20			L000844		
BLD0059-MSD1	QC		21			L000844		

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SLD0171

Instrument: ECD7
Calibration ID: GB00069

Printed: 4/14/2023 9:33:29AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
23C0774-04	8082A PCB Solid 4	A 04	22			L000844	Anchor QEA, LLC	
23C0774-05	8082A PCB Solid 4	A 04	23			L000844	Anchor QEA, LLC	
23C0774-06	8082A PCB Solid 4	A 04	24			L000844	Anchor QEA, LLC	
23C0774-07	8082A PCB Solid 4	A 04	25			L000844	Anchor QEA, LLC	
23C0774-08	8082A PCB Solid 4	A 04	26			L000844	Anchor QEA, LLC	
23C0774-09	8082A PCB Solid 4	A 04	27			L000844	Anchor QEA, LLC	
23C0774-10	8082A PCB Solid 4	A 04	28			L000844	Anchor QEA, LLC	
SLD0171-CCV5	QC		29		L000862	L000844		
SLD0171-CCV6	QC		30		L000856	L000844		
23C0774-11	8082A PCB Solid 4	A 04	31			L000844	Anchor QEA, LLC	
23C0774-12	8082A PCB Solid 4	A 04	32			L000844	Anchor QEA, LLC	
23C0774-13	8082A PCB Solid 4	A 04	33			L000844	Anchor QEA, LLC	
23C0774-14	8082A PCB Solid 4	A 04	34			L000844	Anchor QEA, LLC	
23C0774-15	8082A PCB Solid 4	A 04	35			L000844	Anchor QEA, LLC	
23D0008-01	8082A PCB Solid 4	A 04	36			L000844	Anchor QEA, LLC	
23D0008-02	8082A PCB Solid 4	A 04	37			L000844	Anchor QEA, LLC	
23D0008-03	8082A PCB Solid 4	A 04	38			L000844	Anchor QEA, LLC	
23D0008-04	8082A PCB Solid 4	A 01	39			L000844	Anchor QEA, LLC	
SLD0171-CCV7	QC		40		L000861	L000844		
SLD0171-CCV8	QC		41		L000856	L000844		

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SLD0171

Instrument: ECD7
Calibration ID: GB00069

Printed: 4/14/2023 9:33:29AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230413.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	13-APR-2023 09:13	04132301ECD7.D	1	DDTS	
2	13-APR-2023 09:33	04132302ECD7.D	1	AR1254ICV1	
3	13-APR-2023 09:54	04132303ECD7.D	1	AR1660ICV2	
4	13-APR-2023 10:15	04132304ECD7.D	1	23C0752-06	
5	13-APR-2023 10:35	04132305ECD7.D	1	AR1248CCV1	
6	13-APR-2023 10:56	04132306ECD7.D	1	AR1660CCV2	
7	13-APR-2023 13:16	04132307ECD7.D	1	BLD0239-BLK1	
8	13-APR-2023 13:36	04132308ECD7.D	1	BLD0239-BS1	
9	13-APR-2023 13:57	04132309ECD7.D	1	BLD0239-BSD1	
10	13-APR-2023 14:18	04132310ECD7.D	1	23D0183-02	
11	13-APR-2023 14:39	04132311ECD7.D	1	23D0183-03	
12	13-APR-2023 15:00	04132312ECD7.D	1	AR1242CCV3	
13	13-APR-2023 15:20	04132313ECD7.D	1	AR1660CCV4	
14	13-APR-2023 15:41	04132314ECD7.D	1	BLD0059-BLK1	
15	13-APR-2023 16:02	04132315ECD7.D	1	BLD0059-BS1	
16	13-APR-2023 16:23	04132316ECD7.D	1	BLD0059-BSD1	
17	13-APR-2023 16:43	04132317ECD7.D	1	BLD0059-SRM1	
18	13-APR-2023 17:04	04132318ECD7.D	1	23C0774-01	
19	13-APR-2023 17:25	04132319ECD7.D	1	23C0774-02	
20	13-APR-2023 17:46	04132320ECD7.D	1	23C0774-03	
21	13-APR-2023 18:06	04132321ECD7.D	1	BLD0059-MS1	
22	13-APR-2023 18:27	04132322ECD7.D	1	BLD0059-MSD1	
23	13-APR-2023 18:48	04132323ECD7.D	1	23C0774-04	
24	13-APR-2023 19:09	04132324ECD7.D	1	23C0774-05	
25	13-APR-2023 19:30	04132325ECD7.D	1	23C0774-06	
26	13-APR-2023 19:50	04132326ECD7.D	1	23C0774-07	
27	13-APR-2023 20:11	04132327ECD7.D	1	23C0774-08	
28	13-APR-2023 20:32	04132328ECD7.D	1	23C0774-09	
29	13-APR-2023 20:53	04132329ECD7.D	1	23C0774-10	
30	13-APR-2023 21:13	04132330ECD7.D	1	AR1254CCV5	
31	13-APR-2023 21:34	04132331ECD7.D	1	AR1660CCV6	
32	13-APR-2023 21:55	04132332ECD7.D	1	23C0774-11	
33	13-APR-2023 22:16	04132333ECD7.D	1	23C0774-12	
34	13-APR-2023 22:36	04132334ECD7.D	1	23C0774-13	
35	13-APR-2023 22:57	04132335ECD7.D	1	23C0774-14	
36	13-APR-2023 23:18	04132336ECD7.D	1	23C0774-15	
37	13-APR-2023 23:39	04132337ECD7.D	1	23C0008-01	
38	13-APR-2023 23:59	04132338ECD7.D	1	23C0008-02	
39	14-APR-2023 00:20	04132339ECD7.D	1	23C0008-03	
40	14-APR-2023 00:41	04132340ECD7.D	1	23C0008-04	
41	14-APR-2023 01:01	04132341ECD7.D	1	AR1248CCV7	
42	14-APR-2023 01:22	04132342ECD7.D	1	AR1660CCV8	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230413.b

ARI Job No.: DDTS Method: PCB.m Instrument: ecd7.i Date: 13-APR-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0913	04132301ECD7.D	DDTS		1	NO MANUAL INTEGRATION
0933	04132302ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
0954	04132303ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
1015	04132304ECD7.D	23C0752-06		1	NO MANUAL INTEGRATION
1035	04132305ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1056	04132306ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1316	04132307ECD7.D	BLD0239-BLK1		1	NO MANUAL INTEGRATION
1336	04132308ECD7.D	BLD0239-BS1		1	NO MANUAL INTEGRATION
1357	04132309ECD7.D	BLD0239-BSD1		1	NO MANUAL INTEGRATION
1418	04132310ECD7.D	23D0183-02		1	NO MANUAL INTEGRATION
1439	04132311ECD7.D	23D0183-03		1	NO MANUAL INTEGRATION
1500	04132312ECD7.D	AR1242CCV3		1	NO MANUAL INTEGRATION
1520	04132313ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION
1541	04132314ECD7.D	BLD0059-BLK1		1	NO MANUAL INTEGRATION
1602	04132315ECD7.D	BLD0059-BS1		1	NO MANUAL INTEGRATION
1623	04132316ECD7.D	BLD0059-BSD1		1	NO MANUAL INTEGRATION
1643	04132317ECD7.D	BLD0059-SRM1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230413.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1704	04132318ECD7.D	23C0774-01		1	Aroclor-1254,
1725	04132319ECD7.D	23C0774-02		1	Aroclor-1254,
1746	04132320ECD7.D	23C0774-03		1	Aroclor-1254,
1806	04132321ECD7.D	BLD0059-MS1		1	Aroclor-1254,
1827	04132322ECD7.D	BLD0059-MSD1		1	Aroclor-1254,
1848	04132323ECD7.D	23C0774-04		1	Aroclor-1254,
1909	04132324ECD7.D	23C0774-05		1	Aroclor-1254,
1930	04132325ECD7.D	23C0774-06		1	Aroclor-1254,
1950	04132326ECD7.D	23C0774-07		1	Aroclor-1254,
2011	04132327ECD7.D	23C0774-08		1	Aroclor-1254,
2032	04132328ECD7.D	23C0774-09		1	Aroclor-1254,
2053	04132329ECD7.D	23C0774-10		1	Aroclor-1254,
2113	04132330ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
2134	04132331ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION
2155	04132332ECD7.D	23C0774-11		1	Aroclor-1254,
2216	04132333ECD7.D	23C0774-12		1	Aroclor-1254,
2236	04132334ECD7.D	23C0774-13		1	Aroclor-1254,
2257	04132335ECD7.D	23C0774-14		1	Aroclor-1254,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230413.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2318	04132336ECD7.D	23C0774-15		1	Aroclor-1248, Aroclor-1254,
2339	04132337ECD7.D	23C0008-01		1	Aroclor-1254,
2359	04132338ECD7.D	23C0008-02		1	Aroclor-1248, Aroclor-1254,
0020	04132339ECD7.D	23C0008-03		1	Aroclor-1254,
0041	04132340ECD7.D	23C0008-04		1	Aroclor-1248, Aroclor-1254,
0101	04132341ECD7.D	AR1248CCV7		1	NO MANUAL INTEGRATION
0122	04132342ECD7.D	AR1660CCV8		1	NO MANUAL INTEGRATION
0913	04132301ECD7.D	DDTS		1	NO MANUAL INTEGRATION
0933	04132302ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
0954	04132303ECD7.D	AR1660ICV2		1	Aroclor-1016 [2C],
1015	04132304ECD7.D	23C0752-06		1	NO MANUAL INTEGRATION
1035	04132305ECD7.D	AR1248CCV1		1	Aroclor-1248 [2C],
1056	04132306ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1316	04132307ECD7.D	BLD0239-BLK1		1	NO MANUAL INTEGRATION
1336	04132308ECD7.D	BLD0239-BS1		1	NO MANUAL INTEGRATION
1357	04132309ECD7.D	BLD0239-BSD1		1	NO MANUAL INTEGRATION
1418	04132310ECD7.D	23D0183-02		1	NO MANUAL INTEGRATION
1439	04132311ECD7.D	23D0183-03		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230413.b\230413.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1500	04132312ECD7.D	AR1242CCV3		1	Aroclor-1242 [2C],
1520	04132313ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION
1541	04132314ECD7.D	BLD0059-BLK1		1	NO MANUAL INTEGRATION
1602	04132315ECD7.D	BLD0059-BS1		1	NO MANUAL INTEGRATION
1623	04132316ECD7.D	BLD0059-BSD1		1	NO MANUAL INTEGRATION
1643	04132317ECD7.D	BLD0059-SRM1		1	NO MANUAL INTEGRATION
1704	04132318ECD7.D	23C0774-01		1	Aroclor-1248 [2C],
1725	04132319ECD7.D	23C0774-02		1	Aroclor-1248 [2C],
1746	04132320ECD7.D	23C0774-03		1	Aroclor-1248 [2C],
1806	04132321ECD7.D	BLD0059-MS1		1	NO MANUAL INTEGRATION
1827	04132322ECD7.D	BLD0059-MSD1		1	NO MANUAL INTEGRATION
1848	04132323ECD7.D	23C0774-04		1	Aroclor-1248 [2C],
1909	04132324ECD7.D	23C0774-05		1	Aroclor-1248 [2C],
1930	04132325ECD7.D	23C0774-06		1	Aroclor-1248 [2C],
1950	04132326ECD7.D	23C0774-07		1	Aroclor-1248 [2C],
2011	04132327ECD7.D	23C0774-08		1	Aroclor-1248 [2C],
2032	04132328ECD7.D	23C0774-09		1	Aroclor-1248 [2C],
2053	04132329ECD7.D	23C0774-10		1	Aroclor-1248 [2C],

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230413.b\230413.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2113	04132330ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
2134	04132331ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION
2155	04132332ECD7.D	23C0774-11		1	Aroclor-1248 [2C],
2216	04132333ECD7.D	23C0774-12		1	Aroclor-1248 [2C],
2236	04132334ECD7.D	23C0774-13		1	Aroclor-1248 [2C],
2257	04132335ECD7.D	23C0774-14		1	Aroclor-1248 [2C],
2318	04132336ECD7.D	23C0774-15		1	Aroclor-1248 [2C],
2339	04132337ECD7.D	23C0008-01		1	Aroclor-1248 [2C],
2359	04132338ECD7.D	23C0008-02		1	Aroclor-1248 [2C], Aroclor-1254 [2C], Tetrachloro-m-xylene [2C],
0020	04132339ECD7.D	23C0008-03		1	Aroclor-1248 [2C],
0041	04132340ECD7.D	23C0008-04		1	Aroclor-1248 [2C],
0101	04132341ECD7.D	AR1248CCV7		1	NO MANUAL INTEGRATION
0122	04132342ECD7.D	AR1660CCV8		1	NO MANUAL INTEGRATION

Security Status Report

Date: 14-Apr-2023 09:31

04132301ECD7.D	Data Locked	richardl, 14-Apr-2023 09:31
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04132322ECD7.D	Data Locked	richardl, 14-Apr-2023 09:31
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04132331ECD7.D	Data Locked	richardl, 14-Apr-2023 09:31
04132332ECD7.D	Data Locked	richardl, 14-Apr-2023 09:31
04132333ECD7.D	Data Locked	richardl, 14-Apr-2023 09:31
04132334ECD7.D	Data Locked	richardl, 14-Apr-2023 09:31
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04132338ECD7.D	Data Locked	richardl, 14-Apr-2023 09:31
04132339ECD7.D	Data Locked	richardl, 14-Apr-2023 09:31
04132340ECD7.D	Data Locked	richardl, 14-Apr-2023 09:31
04132341ECD7.D	Data Locked	richardl, 14-Apr-2023 09:31
04132342ECD7.D	Data Locked	richardl, 14-Apr-2023 09:31

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLB0342
Instrument: ECD7
Calibration: GB00069
Calibration Date: 02/24/2023

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLB0342-SCV1 (Water)			Lab File ID: 02242313ECD7.D			Analyzed: 02/24/23 15:03		
Decachlorobiphenyl	40.000	85.8	80 - 120	13.894	13.89483	-0.0008	N/A	
Tetrachlorometaxylene	40.000	87.4	80 - 120	5.807	5.8095	-0.0025	N/A	
Decachlorobiphenyl [2C]	40.000	93.4	80 - 120	14.119	14.11917	-0.0002	N/A	
Tetrachlorometaxylene [2C]	40.000	89.4	80 - 120	5.685	5.687167	-0.0022	N/A	
SLB0342-SCV2 (Water)			Lab File ID: 02242314ECD7.D			Analyzed: 02/24/23 15:24		
Decachlorobiphenyl	40.000	92.5	80 - 120	13.895	13.89483	0.0002	N/A	
Tetrachlorometaxylene	40.000	84.1	80 - 120	5.808	5.8095	-0.0015	N/A	
Decachlorobiphenyl [2C]	40.000	101	80 - 120	14.12	14.11917	0.0008	N/A	
Tetrachlorometaxylene [2C]	40.000	86.3	80 - 120	5.686	5.687167	-0.0012	N/A	
SLB0342-SCV3 (Water)			Lab File ID: 02242315ECD7.D			Analyzed: 02/24/23 15:45		
Decachlorobiphenyl	40.000	82.8	80 - 120	13.893	13.89483	-0.0018	N/A	
Tetrachlorometaxylene	40.000	87.2	80 - 120	5.808	5.8095	-0.0015	N/A	
Decachlorobiphenyl [2C]	40.000	90.8	80 - 120	14.118	14.11917	-0.0012	N/A	
Tetrachlorometaxylene [2C]	40.000	91.0	80 - 120	5.687	5.687167	-0.0002	N/A	
SLB0342-SCV4 (Water)			Lab File ID: 02242316ECD7.D			Analyzed: 02/24/23 16:06		
Decachlorobiphenyl	40.000	86.6	80 - 120	13.894	13.89483	-0.0008	N/A	
Tetrachlorometaxylene	40.000	90.3	80 - 120	5.806	5.8095	-0.0035	N/A	
Decachlorobiphenyl [2C]	40.000	94.8	80 - 120	14.119	14.11917	-0.0002	N/A	
Tetrachlorometaxylene [2C]	40.000	92.7	80 - 120	5.685	5.687167	-0.0022	N/A	
SLB0342-SCV5 (Water)			Lab File ID: 02242317ECD7.D			Analyzed: 02/24/23 16:27		
Decachlorobiphenyl	40.000	86.1	80 - 120	13.894	13.89483	-0.0008	N/A	
Tetrachlorometaxylene	40.000	90.0	80 - 120	5.806	5.8095	-0.0035	N/A	
Decachlorobiphenyl [2C]	40.000	94.6	80 - 120	14.119	14.11917	-0.0002	N/A	
Tetrachlorometaxylene [2C]	40.000	91.6	80 - 120	5.685	5.687167	-0.0022	N/A	
SLB0342-SCV6 (Water)			Lab File ID: 02242318ECD7.D			Analyzed: 02/24/23 16:48		
Decachlorobiphenyl	40.000	128	80 - 120	13.893	13.89483	-0.0018	N/A	
Tetrachlorometaxylene	40.000	92.7	80 - 120	5.806	5.8095	-0.0035	N/A	
Decachlorobiphenyl [2C]	40.000	141	80 - 120	14.118	14.11917	-0.0012	N/A	
Tetrachlorometaxylene [2C]	40.000	95.4	80 - 120	5.685	5.687167	-0.0022	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0150
Instrument: ECD7
Calibration: GB00069
Calibration Date: 02/24/2023

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLD0150-ICV1 (Water)			Lab File ID: 04122310ECD7.D			Analyzed: 04/12/23 12:01		
Decachlorobiphenyl	40.000	93.0	0 - 200	13.899	13.89483	0.0042	N/A	
Tetrachlorometaxylene	40.000	95.8	0 - 200	5.81	5.8095	0.0005	N/A	
Decachlorobiphenyl [2C]	40.000	94.0	0 - 200	14.123	14.11917	0.0038	N/A	
Tetrachlorometaxylene [2C]	40.000	91.0	0 - 200	5.695	5.687167	0.0078	N/A	
SLD0150-ICV2 (Water)			Lab File ID: 04122311ECD7.D			Analyzed: 04/12/23 12:21		
Decachlorobiphenyl	40.000	95.3	0 - 200	13.898	13.89483	0.0032	N/A	
Tetrachlorometaxylene	40.000	99.8	0 - 200	5.81	5.8095	0.0005	N/A	
Decachlorobiphenyl [2C]	40.000	96.8	0 - 200	14.124	14.11917	0.0048	N/A	
Tetrachlorometaxylene [2C]	40.000	94.5	0 - 200	5.695	5.687167	0.0078	N/A	
SLD0150-CCV1 (Water)			Lab File ID: 04122322ECD7.D			Analyzed: 04/12/23 16:10		
Decachlorobiphenyl	40.000	99.5	0 - 200	13.896	13.89483	0.0012	N/A	
Tetrachlorometaxylene	40.000	93.8	0 - 200	5.807	5.8095	-0.0025	N/A	
Decachlorobiphenyl [2C]	40.000	102	0 - 200	14.121	14.11917	0.0018	N/A	
Tetrachlorometaxylene [2C]	40.000	90.8	0 - 200	5.691	5.687167	0.0038	N/A	
SLD0150-CCV2 (Water)			Lab File ID: 04122323ECD7.D			Analyzed: 04/12/23 16:31		
Decachlorobiphenyl	40.000	105	0 - 200	13.896	13.89483	0.0012	N/A	
Tetrachlorometaxylene	40.000	98.5	0 - 200	5.807	5.8095	-0.0025	N/A	
Decachlorobiphenyl [2C]	40.000	104	0 - 200	14.122	14.11917	0.0028	N/A	
Tetrachlorometaxylene [2C]	40.000	93.3	0 - 200	5.691	5.687167	0.0038	N/A	
SLD0150-CCV3 (Water)			Lab File ID: 04122334ECD7.D			Analyzed: 04/12/23 20:19		
Decachlorobiphenyl	40.000	96.8	0 - 200	13.898	13.89483	0.0032	N/A	
Tetrachlorometaxylene	40.000	116	0 - 200	5.808	5.8095	-0.0015	N/A	
Decachlorobiphenyl [2C]	40.000	91.8	0 - 200	14.125	14.11917	0.0058	N/A	
Tetrachlorometaxylene [2C]	40.000	111	0 - 200	5.693	5.687167	0.0058	N/A	
SLD0150-CCV4 (Water)			Lab File ID: 04122335ECD7.D			Analyzed: 04/12/23 20:40		
Decachlorobiphenyl	40.000	105	0 - 200	13.899	13.89483	0.0042	N/A	
Tetrachlorometaxylene	40.000	99.5	0 - 200	5.808	5.8095	-0.0015	N/A	
Decachlorobiphenyl [2C]	40.000	100	0 - 200	14.124	14.11917	0.0048	N/A	
Tetrachlorometaxylene [2C]	40.000	95.5	0 - 200	5.694	5.687167	0.0068	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0150
Instrument: ECD7
Calibration: GB00069
Calibration Date: 02/24/2023

Surrogate Compound	Spike Level ug/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BLD0010-BLK1 (Solid)			Lab File ID: 04122338ECD7.D			Analyzed: 04/12/23 21:42		
Decachlorobiphenyl	8.0000	98.6	40 - 126	13.897	13.89483	0.0022	N/A	
Tetrachlorometaxylene	8.0000	89.4	44 - 120	5.808	5.8095	-0.0015	N/A	
Decachlorobiphenyl [2C]	8.0000	103	40 - 126	14.122	14.11917	0.0028	N/A	
Tetrachlorometaxylene [2C]	8.0000	81.8	44 - 120	5.692	5.687167	0.0048	N/A	
BLD0010-BS1 (Solid)			Lab File ID: 04122339ECD7.D			Analyzed: 04/12/23 22:02		
Decachlorobiphenyl	8.0000	92.7	40 - 126	13.898	13.89483	0.0032	N/A	
Tetrachlorometaxylene	8.0000	89.4	44 - 120	5.808	5.8095	-0.0015	N/A	
Decachlorobiphenyl [2C]	8.0000	102	40 - 126	14.123	14.11917	0.0038	N/A	
Tetrachlorometaxylene [2C]	8.0000	81.2	44 - 120	5.693	5.687167	0.0058	N/A	
BLD0010-BSD1 (Solid)			Lab File ID: 04122340ECD7.D			Analyzed: 04/12/23 22:23		
Decachlorobiphenyl	8.0000	87.9	40 - 126	13.897	13.89483	0.0022	N/A	
Tetrachlorometaxylene	8.0000	88.0	44 - 120	5.809	5.8095	-0.0005	N/A	
Decachlorobiphenyl [2C]	8.0000	99.9	40 - 126	14.123	14.11917	0.0038	N/A	
Tetrachlorometaxylene [2C]	8.0000	80.6	44 - 120	5.693	5.687167	0.0058	N/A	
BLD0010-SRM1 (Solid)			Lab File ID: 04122341ECD7.D			Analyzed: 04/12/23 22:44		
Decachlorobiphenyl	40.000	82.5	40 - 126	13.889	13.89483	-0.0058	N/A	
Tetrachlorometaxylene	40.000	74.5	44 - 120	5.806	5.8095	-0.0035	N/A	
Decachlorobiphenyl [2C]	40.000	80.0	40 - 126	14.116	14.11917	-0.0032	N/A	
Tetrachlorometaxylene [2C]	40.000	72.3	44 - 120	5.69	5.687167	0.0028	N/A	
23C0752-01 (Solid)			Lab File ID: 04122342ECD7.D			Analyzed: 04/12/23 23:05		
Decachlorobiphenyl	8.0002	98.2	40 - 126	13.883	13.89483	-0.0118	N/A	
Tetrachlorometaxylene	8.0002	60.6	44 - 120	5.802	5.8095	-0.0075	N/A	
Decachlorobiphenyl [2C]	8.0002	91.6	40 - 126	14.11	14.11917	-0.0092	N/A	
Tetrachlorometaxylene [2C]	8.0002	71.5	44 - 120	5.684	5.687167	-0.0032	N/A	
23C0752-02 (Solid)			Lab File ID: 04122343ECD7.D			Analyzed: 04/12/23 23:25		
Decachlorobiphenyl	8.0004	88.6	40 - 126	13.884	13.89483	-0.0108	N/A	
Tetrachlorometaxylene	8.0004	64.0	44 - 120	5.803	5.8095	-0.0065	N/A	
Decachlorobiphenyl [2C]	8.0004	83.2	40 - 126	14.111	14.11917	-0.0082	N/A	
Tetrachlorometaxylene [2C]	8.0004	73.2	44 - 120	5.685	5.687167	-0.0022	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0150
Instrument: ECD7
Calibration: GB00069
Calibration Date: 02/24/2023

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23C0752-03 (Solid)			Lab File ID: 04122344ECD7.D			Analyzed: 04/12/23 23:46		
Decachlorobiphenyl	8.0014	90.3	40 - 126	13.883	13.89483	-0.0118	N/A	
Tetrachlorometaxylene	8.0014	60.7	44 - 120	5.802	5.8095	-0.0075	N/A	
Decachlorobiphenyl [2C]	8.0014	87.3	40 - 126	14.109	14.11917	-0.0102	N/A	
Tetrachlorometaxylene [2C]	8.0014	73.7	44 - 120	5.684	5.687167	-0.0032	N/A	
23C0752-04 (Solid)			Lab File ID: 04122345ECD7.D			Analyzed: 04/13/23 00:07		
Decachlorobiphenyl	7.9982	88.1	40 - 126	13.883	13.89483	-0.0118	N/A	
Tetrachlorometaxylene	7.9982	61.7	44 - 120	5.802	5.8095	-0.0075	N/A	
Decachlorobiphenyl [2C]	7.9982	82.2	40 - 126	14.11	14.11917	-0.0092	N/A	
Tetrachlorometaxylene [2C]	7.9982	70.2	44 - 120	5.683	5.687167	-0.0042	N/A	
23C0752-05 (Solid)			Lab File ID: 04122346ECD7.D			Analyzed: 04/13/23 00:28		
Decachlorobiphenyl	8.0008	87.2	40 - 126	13.884	13.89483	-0.0108	N/A	
Tetrachlorometaxylene	8.0008	59.6	44 - 120	5.802	5.8095	-0.0075	N/A	
Decachlorobiphenyl [2C]	8.0008	82.8	40 - 126	14.111	14.11917	-0.0082	N/A	
Tetrachlorometaxylene [2C]	8.0008	70.0	44 - 120	5.684	5.687167	-0.0032	N/A	
BLD0010-MS1 (Solid)			Lab File ID: 04122347ECD7.D			Analyzed: 04/13/23 00:48		
Decachlorobiphenyl	8.0008	90.0	40 - 126	13.885	13.89483	-0.0098	N/A	
Tetrachlorometaxylene	8.0008	62.8	44 - 120	5.802	5.8095	-0.0075	N/A	
Decachlorobiphenyl [2C]	8.0008	86.2	40 - 126	14.11	14.11917	-0.0092	N/A	
Tetrachlorometaxylene [2C]	8.0008	71.7	44 - 120	5.683	5.687167	-0.0042	N/A	
BLD0010-MSD1 (Solid)			Lab File ID: 04122348ECD7.D			Analyzed: 04/13/23 01:09		
Decachlorobiphenyl	8.0008	87.0	40 - 126	13.884	13.89483	-0.0108	N/A	
Tetrachlorometaxylene	8.0008	59.8	44 - 120	5.802	5.8095	-0.0075	N/A	
Decachlorobiphenyl [2C]	8.0008	87.3	40 - 126	14.11	14.11917	-0.0092	N/A	
Tetrachlorometaxylene [2C]	8.0008	69.6	44 - 120	5.683	5.687167	-0.0042	N/A	
23C0752-07 (Solid)			Lab File ID: 04122350ECD7.D			Analyzed: 04/13/23 01:50		
Decachlorobiphenyl	7.9875	86.8	40 - 126	13.884	13.89483	-0.0108	N/A	
Tetrachlorometaxylene	7.9875	59.4	44 - 120	5.802	5.8095	-0.0075	N/A	
Decachlorobiphenyl [2C]	7.9875	81.7	40 - 126	14.11	14.11917	-0.0092	N/A	
Tetrachlorometaxylene [2C]	7.9875	70.8	44 - 120	5.684	5.687167	-0.0032	N/A	

SURROGATE RECOVERY AND RT SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG/WO:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0150	Instrument:	ECD7
Calibration:	GB00069	Calibration Date:	02/24/2023

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLD0150-CCV5 (Water)			Lab File ID: 04122351ECD7.D				Analyzed: 04/13/23 02:11	
Decachlorobiphenyl	40.000	98.0	0 - 200	13.897	13.89483	0.0022	N/A	
Tetrachlorometaxylene	40.000	93.0	0 - 200	5.808	5.8095	-0.0015	N/A	
Decachlorobiphenyl [2C]	40.000	98.0	0 - 200	14.122	14.11917	0.0028	N/A	
Tetrachlorometaxylene [2C]	40.000	90.5	0 - 200	5.692	5.687167	0.0048	N/A	
SLD0150-CCV6 (Water)			Lab File ID: 04122352ECD7.D				Analyzed: 04/13/23 02:32	
Decachlorobiphenyl	40.000	103	0 - 200	13.896	13.89483	0.0012	N/A	
Tetrachlorometaxylene	40.000	98.5	0 - 200	5.808	5.8095	-0.0015	N/A	
Decachlorobiphenyl [2C]	40.000	101	0 - 200	14.123	14.11917	0.0038	N/A	
Tetrachlorometaxylene [2C]	40.000	97.3	0 - 200	5.692	5.687167	0.0048	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0171
Instrument: ECD7
Calibration: GB00069
Calibration Date: 02/24/2023

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLD0171-ICV1 (Solid)				Lab File ID: 04132302ECD7.D			Analyzed: 04/13/23 09:33	
Decachlorobiphenyl	40.000	99.0	80 - 120	13.899	13.89483	0.0042	N/A	
Tetrachlorometaxylene	40.000	94.8	80 - 120	5.808	5.8095	-0.0015	N/A	
Decachlorobiphenyl [2C]	40.000	98.0	80 - 120	14.122	14.11917	0.0028	N/A	
Tetrachlorometaxylene [2C]	40.000	98.8	80 - 120	5.691	5.687167	0.0038	N/A	
SLD0171-ICV2 (Solid)				Lab File ID: 04132303ECD7.D			Analyzed: 04/13/23 09:54	
Decachlorobiphenyl	40.000	99.8	80 - 120	13.898	13.89483	0.0032	N/A	
Tetrachlorometaxylene	40.000	98.8	80 - 120	5.808	5.8095	-0.0015	N/A	
Decachlorobiphenyl [2C]	40.000	98.5	80 - 120	14.123	14.11917	0.0038	N/A	
Tetrachlorometaxylene [2C]	40.000	99.5	80 - 120	5.692	5.687167	0.0048	N/A	
23C0752-06 (Solid)				Lab File ID: 04132304ECD7.D			Analyzed: 04/13/23 10:15	
Decachlorobiphenyl	7.9985	96.4	40 - 126	13.893	13.89483	-0.0018	N/A	
Tetrachlorometaxylene	7.9985	73.1	44 - 120	5.808	5.8095	-0.0015	N/A	
Decachlorobiphenyl [2C]	7.9985	81.7	40 - 126	14.12	14.11917	0.0008	N/A	
Tetrachlorometaxylene [2C]	7.9985	61.1	44 - 120	5.695	5.687167	0.0078	N/A	
SLD0171-CCV1 (Solid)				Lab File ID: 04132305ECD7.D			Analyzed: 04/13/23 10:35	
Decachlorobiphenyl	40.000	96.8	80 - 120	13.898	13.89483	0.0032	N/A	
Tetrachlorometaxylene	40.000	95.3	80 - 120	5.809	5.8095	-0.0005	N/A	
Decachlorobiphenyl [2C]	40.000	95.5	80 - 120	14.123	14.11917	0.0038	N/A	
Tetrachlorometaxylene [2C]	40.000	96.0	80 - 120	5.693	5.687167	0.0058	N/A	
SLD0171-CCV2 (Solid)				Lab File ID: 04132306ECD7.D			Analyzed: 04/13/23 10:56	
Decachlorobiphenyl	40.000	99.0	80 - 120	13.898	13.89483	0.0032	N/A	
Tetrachlorometaxylene	40.000	97.8	80 - 120	5.808	5.8095	-0.0015	N/A	
Decachlorobiphenyl [2C]	40.000	97.0	80 - 120	14.123	14.11917	0.0038	N/A	
Tetrachlorometaxylene [2C]	40.000	98.5	80 - 120	5.693	5.687167	0.0058	N/A	
SLD0171-CCV3 (Solid)				Lab File ID: 04132312ECD7.D			Analyzed: 04/13/23 15:00	
Decachlorobiphenyl	40.000	89.8	80 - 120	13.898	13.89483	0.0032	N/A	
Tetrachlorometaxylene	40.000	116	80 - 120	5.809	5.8095	-0.0005	N/A	
Decachlorobiphenyl [2C]	40.000	92.8	80 - 120	14.124	14.11917	0.0048	N/A	
Tetrachlorometaxylene [2C]	40.000	116	80 - 120	5.695	5.687167	0.0078	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0171
Instrument: ECD7
Calibration: GB00069
Calibration Date: 02/24/2023

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLD0171-CCV4 (Solid)			Lab File ID: 04132313ECD7.D			Analyzed: 04/13/23 15:20		
Decachlorobiphenyl	40.000	95.5	80 - 120	13.898	13.89483	0.0032	N/A	
Tetrachlorometaxylene	40.000	97.5	80 - 120	5.809	5.8095	-0.0005	N/A	
Decachlorobiphenyl [2C]	40.000	99.5	80 - 120	14.124	14.11917	0.0048	N/A	
Tetrachlorometaxylene [2C]	40.000	97.5	80 - 120	5.696	5.687167	0.0088	N/A	
SLD0171-CCV5 (Solid)			Lab File ID: 04132330ECD7.D			Analyzed: 04/13/23 21:13		
Decachlorobiphenyl	40.000	96.3	80 - 120	13.897	13.89483	0.0022	N/A	
Tetrachlorometaxylene	40.000	93.3	80 - 120	5.808	5.8095	-0.0015	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.123	14.11917	0.0038	N/A	
Tetrachlorometaxylene [2C]	40.000	95.0	80 - 120	5.692	5.687167	0.0048	N/A	
SLD0171-CCV6 (Solid)			Lab File ID: 04132331ECD7.D			Analyzed: 04/13/23 21:34		
Decachlorobiphenyl	40.000	101	80 - 120	13.898	13.89483	0.0032	N/A	
Tetrachlorometaxylene	40.000	99.3	80 - 120	5.809	5.8095	-0.0005	N/A	
Decachlorobiphenyl [2C]	40.000	101	80 - 120	14.124	14.11917	0.0048	N/A	
Tetrachlorometaxylene [2C]	40.000	99.0	80 - 120	5.694	5.687167	0.0068	N/A	
SLD0171-CCV7 (Solid)			Lab File ID: 04132341ECD7.D			Analyzed: 04/14/23 01:01		
Decachlorobiphenyl	40.000	98.3	80 - 120	13.897	13.89483	0.0022	N/A	
Tetrachlorometaxylene	40.000	94.5	80 - 120	5.808	5.8095	-0.0015	N/A	
Decachlorobiphenyl [2C]	40.000	98.8	80 - 120	14.122	14.11917	0.0028	N/A	
Tetrachlorometaxylene [2C]	40.000	98.0	80 - 120	5.693	5.687167	0.0058	N/A	
SLD0171-CCV8 (Solid)			Lab File ID: 04132342ECD7.D			Analyzed: 04/14/23 01:22		
Decachlorobiphenyl	40.000	102	80 - 120	13.897	13.89483	0.0022	N/A	
Tetrachlorometaxylene	40.000	99.5	80 - 120	5.808	5.8095	-0.0015	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.123	14.11917	0.0038	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.693	5.687167	0.0058	N/A	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0342	Instrument:	ECD7
		Calibration:	GB00069

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (SLB0342-SCV1)		(Water)	Lab File ID: 02242313ECD7.D				Analyzed: 02/24/23 15:03		
1-Bromo-2-Nitrobenzene	645975	3.489	673778	3.493	96	50 - 200	-0.004	+/-0.50	
Hexabromobiphenyl	1524245	14.268	1429847	14.268	107	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	316115	3.927	315256	3.928	100	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	556950	15.007	513946	15.008	108	50 - 200	-0.001	+/-0.50	
Secondary Cal Check (SLB0342-SCV2)		(Water)	Lab File ID: 02242314ECD7.D				Analyzed: 02/24/23 15:24		
1-Bromo-2-Nitrobenzene	705650	3.493	673778	3.493	105	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	1555683	14.267	1429847	14.268	109	50 - 200	-0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	340433	3.929	315256	3.928	108	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	565609	15.008	513946	15.008	110	50 - 200	0.000	+/-0.50	
Secondary Cal Check (SLB0342-SCV3)		(Water)	Lab File ID: 02242315ECD7.D				Analyzed: 02/24/23 15:45		
1-Bromo-2-Nitrobenzene	646554	3.49	673778	3.493	96	50 - 200	-0.003	+/-0.50	
Hexabromobiphenyl	1529451	14.268	1429847	14.268	107	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	316066	3.928	315256	3.928	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	557213	15.008	513946	15.008	108	50 - 200	0.000	+/-0.50	
Secondary Cal Check (SLB0342-SCV4)		(Water)	Lab File ID: 02242316ECD7.D				Analyzed: 02/24/23 16:06		
1-Bromo-2-Nitrobenzene	656887	3.488	673778	3.493	97	50 - 200	-0.005	+/-0.50	
Hexabromobiphenyl	1585505	14.267	1429847	14.268	111	50 - 200	-0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	320936	3.925	315256	3.928	102	50 - 200	-0.003	+/-0.50	
Hexabromobiphenyl [2C]	570006	15.007	513946	15.008	111	50 - 200	-0.001	+/-0.50	
Secondary Cal Check (SLB0342-SCV5)		(Water)	Lab File ID: 02242317ECD7.D				Analyzed: 02/24/23 16:27		
1-Bromo-2-Nitrobenzene	661953	3.489	673778	3.493	98	50 - 200	-0.004	+/-0.50	
Hexabromobiphenyl	1574993	14.268	1429847	14.268	110	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	317807	3.926	315256	3.928	101	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	565951	15.007	513946	15.008	110	50 - 200	-0.001	+/-0.50	
Secondary Cal Check (SLB0342-SCV6)		(Water)	Lab File ID: 02242318ECD7.D				Analyzed: 02/24/23 16:48		
1-Bromo-2-Nitrobenzene	656592	3.489	673778	3.493	97	50 - 200	-0.004	+/-0.50	
Hexabromobiphenyl	1584453	14.268	1429847	14.268	111	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	314741	3.926	315256	3.928	100	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	568346	15.007	513946	15.008	111	50 - 200	-0.001	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0150
Instrument: ECD7
Calibration: GB00069

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SLD0150-ICV1)		(Water)	Lab File ID: 04122310ECD7.D				Analyzed: 04/12/23 12:01		
1-Bromo-2-Nitrobenzene	499974	3.488	499974	3.488	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	1163559	14.277	1163559	14.277	100	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	331503	3.929	331503	3.929	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	572650	15.015	572650	15.015	100	50 - 200	0.000	+/-0.50	
Initial Cal Check (SLD0150-ICV2)		(Water)	Lab File ID: 04122311ECD7.D				Analyzed: 04/12/23 12:21		
1-Bromo-2-Nitrobenzene	506793	3.489	506793	3.489	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	1176206	14.276	1176206	14.276	100	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	333796	3.929	333796	3.929	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	583050	15.014	583050	15.014	100	50 - 200	0.000	+/-0.50	
Blank (BLD0010-BLK1)		(Solid)	Lab File ID: 04122338ECD7.D				Analyzed: 04/12/23 21:42		
1-Bromo-2-Nitrobenzene	577786	3.487	506793	3.489	114	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	1138856	14.273	1176206	14.276	97	50 - 200	-0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	375421	3.93	333796	3.929	112	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	541184	15.012	583050	15.014	93	50 - 200	-0.002	+/-0.50	
LCS (BLD0010-BS1)		(Solid)	Lab File ID: 04122339ECD7.D				Analyzed: 04/12/23 22:02		
1-Bromo-2-Nitrobenzene	572125	3.487	506793	3.489	113	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	1258949	14.275	1176206	14.276	107	50 - 200	-0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	368574	3.929	333796	3.929	110	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	565348	15.013	583050	15.014	97	50 - 200	-0.001	+/-0.50	
LCS Dup (BLD0010-BSD1)		(Solid)	Lab File ID: 04122340ECD7.D				Analyzed: 04/12/23 22:23		
1-Bromo-2-Nitrobenzene	588179	3.488	506793	3.489	116	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	1329053	14.274	1176206	14.276	113	50 - 200	-0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	383884	3.93	333796	3.929	115	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	585014	15.013	583050	15.014	100	50 - 200	-0.001	+/-0.50	
Reference (BLD0010-SRM1)		(Solid)	Lab File ID: 04122341ECD7.D				Analyzed: 04/12/23 22:44		
1-Bromo-2-Nitrobenzene	584983	3.488	506793	3.489	115	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	848919	14.26	1176206	14.276	72	50 - 200	-0.016	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	362414	3.929	333796	3.929	109	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	512290	15.003	583050	15.014	88	50 - 200	-0.011	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0150	Instrument:	ECD7
		Calibration:	GB00069

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW23-SS1026 (23C0752-01)		(Solid)	Lab File ID: 04122342ECD7.D				Analyzed: 04/12/23 23:05		
1-Bromo-2-Nitrobenzene	546453	3.487	506793	3.489	108	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	430253	14.249	1176206	14.276	37	50 - 200	-0.027	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	328032	3.928	333796	3.929	98	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	362415	14.994	583050	15.014	62	50 - 200	-0.020	+/-0.50	
LDW23-SS1125 (23C0752-02)		(Solid)	Lab File ID: 04122343ECD7.D				Analyzed: 04/12/23 23:25		
1-Bromo-2-Nitrobenzene	544205	3.487	506793	3.489	107	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	420221	14.25	1176206	14.276	36	50 - 200	-0.026	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	333279	3.929	333796	3.929	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	355086	14.995	583050	15.014	61	50 - 200	-0.019	+/-0.50	
LDW23-SS1132 (23C0752-03)		(Solid)	Lab File ID: 04122344ECD7.D				Analyzed: 04/12/23 23:46		
1-Bromo-2-Nitrobenzene	531506	3.487	506793	3.489	105	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	375622	14.25	1176206	14.276	32	50 - 200	-0.026	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	323095	3.928	333796	3.929	97	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	328349	14.995	583050	15.014	56	50 - 200	-0.019	+/-0.50	
LDW23-SS1810 (23C0752-04)		(Solid)	Lab File ID: 04122345ECD7.D				Analyzed: 04/13/23 00:07		
1-Bromo-2-Nitrobenzene	537679	3.486	506793	3.489	106	50 - 200	-0.003	+/-0.50	
Hexabromobiphenyl	416665	14.25	1176206	14.276	35	50 - 200	-0.026	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	335453	3.928	333796	3.929	100	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	349815	14.994	583050	15.014	60	50 - 200	-0.020	+/-0.50	
LDW23-SC1810 (23C0752-05)		(Solid)	Lab File ID: 04122346ECD7.D				Analyzed: 04/13/23 00:28		
1-Bromo-2-Nitrobenzene	540812	3.487	506793	3.489	107	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	384413	14.249	1176206	14.276	33	50 - 200	-0.027	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	331121	3.928	333796	3.929	99	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	333213	14.996	583050	15.014	57	50 - 200	-0.018	+/-0.50	
Matrix Spike (BLD0010-MS1)		(Solid)	Lab File ID: 04122347ECD7.D				Analyzed: 04/13/23 00:48		
1-Bromo-2-Nitrobenzene	532903	3.486	506793	3.489	105	50 - 200	-0.003	+/-0.50	
Hexabromobiphenyl	385621	14.25	1176206	14.276	33	50 - 200	-0.026	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	328231	3.928	333796	3.929	98	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	336449	14.995	583050	15.014	58	50 - 200	-0.019	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0150
Instrument: ECD7
Calibration: GB00069

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike Dup (BLD0010-MSD1)		(Solid)	Lab File ID: 04122348ECD7.D					Analyzed: 04/13/23 01:09	
1-Bromo-2-Nitrobenzene	544630	3.486	506793	3.489	107	50 - 200	-0.003	+/-0.50	
Hexabromobiphenyl	376316	14.249	1176206	14.276	32	50 - 200	-0.027	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	331463	3.928	333796	3.929	99	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	331186	14.994	583050	15.014	57	50 - 200	-0.020	+/-0.50	
LDW23-SC1809 (23C0752-07)		(Solid)	Lab File ID: 04122350ECD7.D					Analyzed: 04/13/23 01:50	
1-Bromo-2-Nitrobenzene	546394	3.488	506793	3.489	108	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	392921	14.249	1176206	14.276	33	50 - 200	-0.027	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	330126	3.928	333796	3.929	99	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	338732	14.994	583050	15.014	58	50 - 200	-0.020	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0171	Instrument:	ECD7
		Calibration:	GB00069

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SLD0171-ICV1)		(Solid)	Lab File ID: 04132302ECD7.D				Analyzed: 04/13/23 09:33		
1-Bromo-2-Nitrobenzene	575245	3.488	575245	3.488	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	880930	14.275	880930	14.275	100	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	332709	3.928	332709	3.928	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	452167	15.013	452167	15.013	100	50 - 200	0.000	+/-0.50	
Initial Cal Check (SLD0171-ICV2)		(Solid)	Lab File ID: 04132303ECD7.D				Analyzed: 04/13/23 09:54		
1-Bromo-2-Nitrobenzene	565150	3.488	565150	3.488	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	912687	14.276	912687	14.276	100	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	329485	3.929	329485	3.929	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	467802	15.012	467802	15.012	100	50 - 200	0.000	+/-0.50	
LDW23-SS1809 (23C0752-06)		(Solid)	Lab File ID: 04132304ECD7.D				Analyzed: 04/13/23 10:15		
1-Bromo-2-Nitrobenzene	602715	3.489	565150	3.488	107	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	964421	14.266	912687	14.276	106	50 - 200	-0.010	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	376702	3.931	329485	3.929	114	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl [2C]	538630	15.007	467802	15.012	115	50 - 200	-0.005	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	23C0752
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23C0752-01	File ID:	04122342ECD7.D
Sampled:	03/30/23 10:37	Prepared:	04/03/23 14:00	Analyzed:	04/12/23 23:05
Solids:	50.24	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BLD0010	Sequence:	SLD0150		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.395	8.405	0.01	91099.5	48.3	14.2
	2	8.299	8.307	0.008	37611.25	41.9	
Aroclor 1254	1	9.284	9.298	0.014	140303.4	52.7	33.4
	* 2	9.437	9.449	0.012	126413.2	73.8	
Aroclor 1260	1	11.031	11.04467	0.0137	71763	69.8	16.3
	* 2	11.641	11.6535	0.0125	87268.25	59.3	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	23C0752
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23C0752-02	File ID:	04122343ECD7.D
Sampled:	03/30/23 11:10	Prepared:	04/03/23 14:00	Analyzed:	04/12/23 23:25
Solids:	49.66	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BLD0010	Sequence:	SLD0150		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.395	8.405	0.01	75144	39.6	1.5
	2	8.299	8.307	0.008	34917.25	39.0	
Aroclor 1254	1	9.284	9.298	0.014	124501	45.6	39.
	* 2	9.437	9.449	0.012	110517	67.7	
Aroclor 1260	1	11.031	11.04467	0.0137	60950.4	60.1	13.1
	* 2	11.641	11.6535	0.0125	74317.75	52.7	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	23C0752
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23C0752-03	File ID:	04122344ECD7.D
Sampled:	03/30/23 11:30	Prepared:	04/03/23 14:00	Analyzed:	04/12/23 23:46
Solids:	50.66	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BLD0010	Sequence:	SLD0150		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.395	8.405	0.01	185509	102	21.8
	2	8.299	8.307	0.008	123998.3	127	
Aroclor 1254	1	9.283	9.298	0.015	205556.2	82.0	28.3
	* 2	9.437	9.449	0.012	171860.6	109	
Aroclor 1260	1	11.031	11.04467	0.0137	71556.2	77.5	9.6
	* 2	11.641	11.6535	0.0125	92811.25	70.4	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	23C0752
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23C0752-04	File ID:	04122345ECD7.D
Sampled:	03/30/23 10:36	Prepared:	04/03/23 14:00	Analyzed:	04/13/23 00:07
Solids:	52.71	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BLD0010	Sequence:	SLD0150		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.394	8.405	0.011	51704.5	27.6	.4
	2	8.299	8.307	0.008	24459	27.5	
Aroclor 1254	1	9.283	9.298	0.015	87064.6	32.1	39.1
	* 2	9.437	9.449	0.012	77994.8	47.7	
Aroclor 1260	1	11.031	11.04467	0.0137	57936.4	57.0	14.9
	* 2	11.641	11.6535	0.0125	69341.25	49.1	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	23C0752
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23C0752-05	File ID:	04122346ECD7.D
Sampled:	03/30/23 11:00	Prepared:	04/03/23 14:00	Analyzed:	04/13/23 00:28
Solids:	52.10	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BLD0010	Sequence:	SLD0150		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.393	8.405	0.012	60225.25	32.1	.3
	* 2	8.299	8.307	0.008	28676.25	32.2	
Aroclor 1254	1	9.284	9.298	0.014	97294.8	35.6	30.1
	* 2	9.437	9.449	0.012	87152.6	48.2	
Aroclor 1260	1	11.03	11.04467	0.0147	57886	62.0	15.3
	* 2	11.641	11.6535	0.0125	71232.5	53.2	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	23C0752
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23C0752-07	File ID:	04122350ECD7.D
Sampled:	03/30/23 14:55	Prepared:	04/03/23 14:00	Analyzed:	04/13/23 01:50
Solids:	51.31	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BLD0010	Sequence:	SLD0150		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.394	8.405	0.011	55986.75	29.4	5.9
	* 2	8.299	8.307	0.008	27712.75	31.2	
Aroclor 1254	1	9.284	9.298	0.014	93496.8	33.8	30.2
	* 2	9.437	9.449	0.012	83584.4	45.8	
Aroclor 1260	1	11.032	11.04467	0.0127	56927.6	59.6	14.
	* 2	11.641	11.6535	0.0125	69147.5	51.8	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	23C0752
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23C0752-06	File ID:	04132304ECD7.D
Sampled:	03/30/23 14:30	Prepared:	04/03/23 14:00	Analyzed:	04/13/23 10:15
Solids:	46.72	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BLD0010	Sequence:	SLD0171		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1254	1	9.307	9.298	0.009	32129.4	238	132.9
	* 2	9.459	9.449	0.01	43167.8	1180	
Aroclor 1260	1	11.047	11.04467	0.00233	143639.4	3060	20.1
	* 2	11.657	11.6535	0.0035	117746	2500	

* Column used for quantitation

HOLDING TIME SUMMARY

Analysis: EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 23C0752

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

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1026 23C0752-01	03/30/23 10:37	03/30/23 16:25	04/03/23 14:00	4	14	04/12/23 23:05	9	40	
LDW23-SS1125 23C0752-02	03/30/23 11:10	03/30/23 16:25	04/03/23 14:00	4	14	04/12/23 23:25	9	40	
LDW23-SS1132 23C0752-03	03/30/23 11:30	03/30/23 16:25	04/03/23 14:00	4	14	04/12/23 23:46	9	40	
LDW23-SS1810 23C0752-04	03/30/23 10:36	03/30/23 16:25	04/03/23 14:00	4	14	04/13/23 00:07	9	40	
LDW23-SC1810 23C0752-05	03/30/23 11:00	03/30/23 16:25	04/03/23 14:00	4	14	04/13/23 00:28	9	40	
LDW23-SS1809 23C0752-06	03/30/23 14:30	03/30/23 16:25	04/03/23 14:00	3	14	04/13/23 10:15	10	40	
LDW23-SC1809 23C0752-07	03/30/23 14:55	03/30/23 16:25	04/03/23 14:00	3	14	04/13/23 01:50	9	40	
Matrix Spike BLD0010-MS1	03/30/23 11:00	03/30/23 16:25	04/03/23 14:00	4	14	04/13/23 00:48	9	40	
Matrix Spike Dup BLD0010-MSD1	03/30/23 11:00	03/30/23 16:25	04/03/23 14:00	4	14	04/13/23 01:09	9	40	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: ECD7

Analyte	MDL	RL	Units
Aroclor 1016	1.6	4.0	ug/kg
Aroclor 1016 [2C]	1.6	4.0	ug/kg
Aroclor 1221	1.6	4.0	ug/kg
Aroclor 1221 [2C]	1.6	4.0	ug/kg
Aroclor 1232	1.6	4.0	ug/kg
Aroclor 1232 [2C]	1.6	4.0	ug/kg
Aroclor 1242	1.6	4.0	ug/kg
Aroclor 1242 [2C]	1.6	4.0	ug/kg
Aroclor 1248	1.6	4.0	ug/kg
Aroclor 1248 [2C]	1.6	4.0	ug/kg
Aroclor 1254	1.6	4.0	ug/kg
Aroclor 1254 [2C]	1.6	4.0	ug/kg
Aroclor 1260	0.6	4.0	ug/kg
Aroclor 1260 [2C]	0.6	4.0	ug/kg

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: S-279N
Description: Tetrachloro-m-xylene
Lot: 0052481B-1
Solvent: N/A
Hazards: *Refer to SDS for complete safety information*

Signal Word: Warning

Date Certified: Jul 28, 2005
Expiration: Jul 28, 2015
Sample Size: 100 mg
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

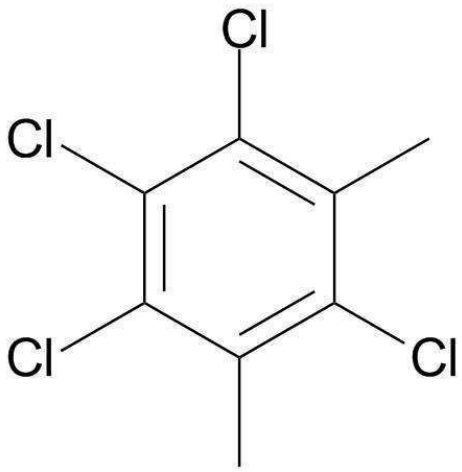
ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/FID)	Prepared Concentration	Certified Analyte Concentration[1]
Tetrachloro-meta-xylene	877-09-8	96.0	N/A	N/A

Identification:

Molecular formula: C8H6Cl4
Molecular weight: 243.94



C000147
tetrachlormetaxylene
Expires 1/15/2020
Prepared By Joshua Rains 1/15/2014

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] The Uncertainty calculated for this product is ±2.4%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Metrological traceability is established through in-house validated methods.

Purity, if stated, is equal to 100% minus found impurity components. Impurity components have not been identified.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 5/18

AccuStandard
125 Market Street
New Haven, CT 06513
(203) 786-5290

CERTIFICATE OF PRODUCT DATA

PRODUCT: C-209N
DESCRIPTION: 2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl
LOT #: 990521LB-AC
SOLVENT: N/A

EXPIRATION: Jul 28, 2015

This product is guaranteed accurate to ±0.5% of the Certified Analyte concentration through the Expiration Date on the Label.

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1]	Certified Analyte Concentration[2]
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	2051-24-3	100	N/A	N/A

C000148
decachlorbiphenyl
Expires 1/15/2020
Prepared By Joshua Rains 1/15/2014

* I1768A

Certified by: R. Cooper

1. All weights are traceable through National Institute of Standards & Technology, Test No. 822/254480
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is ±4% which is the Combined Uncertainty uc(y). It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is Uc(y) *K where K is the coverage factor at the 95% confidence level (K=2).
3. A product with a suffix (-1A, -2B, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

Please note: AccuStandard follows the U.S. conventions in reporting numerical values, on both certificates and labels.

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

This product was manufactured in accordance to quality system requirements of ISO 9001:2000 and ISO 17025

* Recertified 2 4-6-09 JS

Analytical Standard Record

Standard ID: C000148 **Printed: 4/23/2015 11:54:44AM**

Description:	decachlorbiphenyl	Expires:	15-Jan-2020
Standard Type:	Other	Prepared:	15-Jan-2014
Solvent:	na/a	Prepared By:	Joshua Rains
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	27-Feb-2015 13:03 by JGR
Vendor:	Accustandard	Lot #:	990521lb-ac
Vendor Catalog #:			

Comments

see i1768a
SOM calibrations added 06/12/14 sdrd

Analyte	CAS Number	Concentration	Units
Decachlorobiphenyl [2C]	2051-24-3	1000000	ug/mL
Decachlorobiphenyl	2051-24-3	1000000	ug/mL
DCB 1660 [2C]	2051-24-3	1000000	ug/mL
DCB 1660	2051-24-3	1000000	ug/mL
DCB [2C]	2051-24-3	1000000	ug/mL
DCB (A) [2C]	2051-24-3	1000000	ug/mL
DCB (A)	2051-24-3	1000000	ug/mL
DCB	2051-24-3	1000000	ug/mL

Reviewed By Date

Certificate of Analysis

Phenova Certified Reference Materials are sold by Phenomenex.
411 Madrid Ave., Torrance, CA 90501 USA ■ Tel: 310-212-0555 ■ Fax: 310-328-7768 ■ info@phenomenex.com
Access your MSDS and digital C of A at **www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards**

Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.: AL0-101461
Description: Aroclor 1254
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Hexane

Lot Number: CL13053
Certification Date: November 29, 2018
Expiration Date: November 30, 2026

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1254	11097-69-1	1000	± 0.246%

I09808
Recd. JP
02/24/20

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

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Manufactured by Phenova, Inc.

Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101468
Description: Aroclor 1221
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL14017
Certification Date: August 20, 2019
Expiration Date: August 31, 2027

Andrea L Gill
Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1221	11104-28-2	1000	± 0.553%

J004466
Rec'd
06/18/21

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Certified Reference Materials

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101469
Description: Aroclor 1232
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL14914
Certification Date: January 31, 2020
Expiration Date: January 31, 2028

Andrea L Gill
Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1232	11141-16-5	1000	± 0.738%

J006467 JR
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06/18/21

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101470
Description: Aroclor 1242
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL14018
Certification Date: August 20, 2019
Expiration Date: August 31, 2027

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1242	53469-21-9	1000	± 0.553%

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2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.:	AL0-101471	**Lot Number:**	CL15384
Description:	Aroclor 1248	**Certification Date:**	June 19, 2020
Storage:	4 °C	**Expiration Date:**	June 30, 2028
Provided As:	1 mL in 2 mL Ampoule in Isooctane		

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1248	12672-29-6	1000	± 0.520%

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06/18/21

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.: AL0-101474
Description: Aroclor 1262
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL11330
Certification Date: May 15, 2015
Expiration Date: April 30, 2023
Revision Date: April 2, 2018

Andrea L Gill
Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1262	37324-23-5	1000	± 0.516%

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06/18/21

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO Guide 34[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.

4. Instruction: Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.

12. Period of Validity: The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
[3] ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.:	AL0-101475	**Lot Number:**	CL11331
Description:	Aroclor 1268	**Certification Date:**	May 15, 2015
Storage:	4 °C	**Expiration Date:**	April 30, 2023
Provided As:	1 mL in 2 mL Ampoule in Isooctane	**Revision Date:**	April 2, 2018

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1268	11100-14-4	1000	± 0.516%

J006472
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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO Guide 34[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.

4. Instruction: Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.

12. Period of Validity: The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
[3] ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

Manufactured by Phenova, Inc.
Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Analysis

Agilent

Aroclor 1016 Solution

Product Number: PP-282 **Page:** 1 of 1

Lot Number: CR-0761 **Lot Issue Date:** 28-Feb-2017 **Expiration Date:** 31-Mar-2025

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1016	012674-11-2	NT01016	100.2 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1254 Reed JR 02/05/22

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

John Russo
President

Monica Bourgeois
Director of QA/RA

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 9001
Registered
TUV USA, Inc.

Agilent

Certificate of Analysis

Product Name: Aroclor 1260 Standard

Product Number: PP-362-1 **Lot Issue Date:** 20-Jan-2021

Lot Number: 0006582048 **Expiration Date:** 28-Feb-2025

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
Aroclor 1260	011096-82-5	NT01023	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

K 1255

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

M Bourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 17025 Cert
No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

Agilent

Certificate of Analysis
ISO Guide 34

Aroclor 1242 Solution

Product Number: PP-312 **Page:** 1 of 1

Lot Number: CS-6293 **Lot Issue Date:** 04-Jan-2019 **Expiration Date:** 31-Jan-2023

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1242	053469-21-9	NT01020	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1256

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

M Bourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO GUIDE 34 REFERENCE MATERIAL PRODUCER
ISO Guide 34 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO17025 Cert No.
AT-1937

ISO 17034

Agilent
Trusted Answers

Reference Material Certificate

Product Name:	Aroclor 1248 Standard	**Lot Number:**	0006626997
Product Number:	PP-342-1	**Lot Issue Date:**	17-Aug-2021
Storage Conditions:	Store at Room Temperature (15° to 30°C).	**Expiration Date:**	30-Sep-2025

	CERTIFIED VALUES				
Component Name	Concentration		Expanded Uncertainty	CAS#	Analyte Lot
Aroclor 1248	100.3	±	0.5 µg/mL	012672-29-6	NT01582

Matrix: isooctane (2,2,4-trimethylpentane)

K1257

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Certificate of Analysis

Agilent

Aroclor 1254 Solution

Product Number: PP-352 **Page:** 1 of 1

Lot Number: CS-2321 **Lot Issue Date:** 04-May-2018 **Expiration Date:** 31-May-2026

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1254	011097-69-1	RM00922	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1258

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

John Russo
President

Monica Bourgeois
Director of QA/RA

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 9001
Registered
TUV USA, Inc.

Agilent

Certificate of Analysis

Product Name: Aroclor 1221 Standard

Product Number: PP-292-1 **Lot Issue Date:** 28-Apr-2020

Lot Number: 0006535333 **Expiration Date:** 31-May-2024

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
Aroclor 1221	011104-28-2	RM04278	100.2 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

K1259

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

MBourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 17025 Cert No. AT-1937

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Agilent

Certificate of Analysis
ISO 17034

Aroclor 1262 Standard

Product Number: PP-372-1 **Page:** 1 of 1

Lot Number: 0006499800 **Lot Issue Date:** 04-Nov-2019 **Expiration Date:** 30-Nov-2023

This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent Technologies ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1262	037324-23-5	RM14263	100.0 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1260

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

Agilent

Certificate of Analysis
ISO 17034

Aroclor 1232 Standard

Product Number: PP-302-1 **Page:** 1 of 1

Lot Number: CF-2197A **Lot Issue Date:** 05-Jul-2016 **Expiration Date:** 31-Aug-2023

This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1232	011141-16-5	NT01717	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1261

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

M Bourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO GUIDE 34 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO17025 Cert No. AT-1937

Agilent

Certificate of Analysis

Product Name: Aroclor 1268 Standard

Product Number: PP-382-1 **Lot Issue Date:** 09-Feb-2021

Lot Number: 0006587800 **Expiration Date:** 31-Mar-2029

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
Aroclor 1268	011100-14-4	RM00937	100.0 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

K1262

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026
Page: 1 of 1
www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

Recipient Copy

CHAIN-OF-CUSTODY RECORD

COC No. 15350

Order Number: CB014765 Date Shipped: 4/11/2022 AirBill No(s): 519204140444

From: QATS LABORATORY
2700 CHANDLER AVENUE, BLDG. B
LAS VEGAS, NV 89120
PHONE: 1-702-895-8712

To: Kelly Bottem
Analytical Resources, Inc.
4611 S. 134th Place SUITE 100
Tukwila WA 98168
206-695-6211

K003525
K003528

Sample ID	Qty	Description/Remarks	→ Catalogue Number
PSRM0148	1	PUGET SOUND SEDIMENT RM	PS-SRM
PSRM0149	1	PUGET SOUND SEDIMENT RM	PS-SRM
PSRM0150	1	PUGET SOUND SEDIMENT RM	PS-SRM
PSRM0151	1	PUGET SOUND SEDIMENT RM	PS-SRM

4/11/2022

BOEING PLANT 2

Please use the enclosed Sample Preparation Instructions. If catalogue number(s) are listed at the top of the Sample Preparation Instructions use the Sample Preparation Instructions with catalogue number(s) matching the catalogue number(s) of each of the samples listed above.

Relinquished by: (Signature)	Date/Time 1400 4/11/2022	Received by: (Signature)	Date/Time 0955 04/12/22
Custody Seal(s): Present/Absent PRESENT	Remarks:		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

PUGET SOUND SEDIMENT REFERENCE MATERIAL
QATS LABORATORY INSTRUCTIONS FOR
HRGC/HRMS CDD/CDF/CB CONGENER AND GC/ECD AROCLOR ANALYSIS

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocols or your contract, disregard these instructions.

APPLICATION: For the analysis of CDD/CDF and CB Congener analytes using project-specified HRGC/HRMS methods, and Aroclors using project-specified GC/ECD methods.

CAUTION: Read instructions carefully before opening bottles and proceeding with the analyses.

Contains CDD/CDF, CB Congener, and/or Aroclors
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a Puget Sound (Washington State) Sediment Reference Material (SRM) set for chlorinated dibenzo-p-dioxins/chlorinated dibenzofurans (CDD/CDF), and/or chlorinated biphenyl (CB) congener analysis using project-specified high resolution gas chromatography/ high resolution mass spectrometry (HRGC/HRMS) methods. This SRM is also suitable for Aroclors analysis using project-specified gas chromatography/electron capture detection (GC/ECD) methods. This set consists of one (1) or more bottles, each with approximately 30 grams of Puget Sound SRM containing CDD/CDF, CB Congener, and/or Aroclor analytes. Check the chain-of-custody record to determine the number of bottles provided for CDD/CDF, CB Congener, and/or Aroclor analysis. None of the bottles are to be opened until SRM preparation/analysis is to occur.

CAUTION: The SRM could contain compounds that are light sensitive and should be protected from light during storage. Store the SRM at ≤ 6° C, preferably at < 0° C, until SRM preparation and analysis is to occur. Allow the bottle(s) to reach ambient temperature before opening.

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Refer to the enclosed chain-of-custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS REQUIREMENTS*

The SRM is to be analyzed as described in the project-specified methods employed for the analysis of CDD/CDF and/or CB Congener analytes using HRGC/HRMS instrumentation and/or Aroclors using GC/ECD instrumentation. These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the project-specified methods, or your contract, disregard these instructions.

(D) *SAMPLE ANALYSIS*

General Instructions

The SRM contains CDD/CDF, CB Congener, and Aroclor analytes which are known or suspected to have severe health effects. Employing appropriate safety precautions, this SRM is to be handled, prepared, and analyzed exactly as you would process samples received from a known or suspected hazardous waste site. The SRM should be handled only by trained and experienced analysts in facilities expressly designed to handle such materials. When calculating the concentrations of analytes, use 0% as the soil moisture content.

Allow the bottle(s) to reach ambient temperature before opening and removing gravimetric amounts for sample preparation. To begin the extraction and analysis procedure, break the seal and open the bottle carefully. Weigh out the appropriate aliquot for extraction and analysis as prescribed in the project-specified methods (typically 10 grams for HRGC/HRMS methods and 30 grams for GC/ECD methods), or in accordance with your contract.

Proceed immediately with the extraction and analysis as described in the project-specified methods or your contract.

(E) *REPORTING*

Report the results for the prepared SRM as received.

Report the analytical results for the SRM to EPA or other appropriate Agency, using the format and other instructions for submission of data packages as specified in your contract.

Certificate of Analysis

Phenova Certified Reference Materials are sold by Phenomenex.
411 Madrid Ave., Torrance, CA 90501 USA ▪ Tel: 310-212-0555 ▪ Fax: 310-328-7768 ▪ info@phenomenex.com
Access your MSDS and digital C of A at **www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards**

Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.: AL0-101467
Description: Aroclor 1016
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL12975
Certification Date: November 19, 2018
Expiration Date: October 31, 2026

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1016	12674-11-2	1000	± 0.553%

K5829

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

phenova® Certified Reference Materials

Manufactured by Phenova, Inc.
Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ilac-MRA ACCREDITED
Chemical Testing Laboratory
Certificate No. 2427.03

IL11110613_us

Certificate of Analysis

Phenova Certified Reference Materials are sold by Phenomenex.
411 Madrid Ave., Torrance, CA 90501 USA ▪ Tel: 310-212-0555 ▪ Fax: 310-328-7768 ▪ info@phenomenex.com
Access your MSDS and digital C of A at www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO Guide 34[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.

4. Instruction: Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

   $$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.

12. Period of Validity: The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
[3] ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

phenova® Certified Reference Materials

Manufactured by Phenova, Inc.
Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ilac-MRA ACCREDITED
Chemical Testing Laboratory
Certificate No. 2427.03

ILT1116613_US

Certificate of Analysis

phenova Certified Reference Materials | A Phenomenex Company

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101462
Description: Aroclor 1260
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Hexane

Lot Number: CL18021
Certification Date: February 14, 2022
Expiration Date: February 28, 2030

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1260	11096-82-5	1000	± 0.553%

K005830

Certificate of Analysis

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B

Total Metals

LDW23-SS1026

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-01 A	SDG:	23C0752
Sampled:	03/30/23 10:37	Prepared:	04/17/23 16:44	File ID:	XDT_m1230502-091
% Solids:	52.10	Preparation:	SWN EPA 3050B	Analyzed:	05/02/23 20:40
Batch:	BLD0365	Sequence:	SLE0043	Initial/Final:	1.061 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	GE00013

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	25.7	20	0.47	0.90	
7439-92-1	Lead	35.2	20	0.09	0.18	
7440-22-4	Silver	0.34	20	0.04	0.36	J

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B

Total Metals

LDW23-SS1125

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-02 A	SDG:	23C0752
Sampled:	03/30/23 11:10	Prepared:	04/17/23 16:44	File ID:	XDT_m1230502-092
% Solids:	49.27	Preparation:	SWN EPA 3050B	Analyzed:	05/02/23 20:44
Batch:	BLD0365	Sequence:	SLE0043	Initial/Final:	1.04 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	GE00013

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	27.4	20	0.51	0.98	
7439-92-1	Lead	43.6	20	0.10	0.20	
7440-22-4	Silver	0.29	20	0.04	0.39	J

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B
Total Metals

LDW23-SS1132

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-03 A	SDG:	23C0752
Sampled:	03/30/23 11:30	Prepared:	04/17/23 16:44	File ID:	XDT_m1230502-093
% Solids:	50.77	Preparation:	SWN EPA 3050B	Analyzed:	05/02/23 20:49
Batch:	BLD0365	Sequence:	SLE0043	Initial/Final:	1.05 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	GE00013

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	22.8	20	0.49	0.94	
7439-92-1	Lead	26.1	20	0.10	0.19	
7440-22-4	Silver	0.23	20	0.04	0.38	J

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B

Total Metals

LDW23-SS1810

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-04 A	SDG:	23C0752
Sampled:	03/30/23 10:36	Prepared:	04/17/23 16:44	File ID:	XDT_m1230502-094
% Solids:	52.64	Preparation:	SWN EPA 3050B	Analyzed:	05/02/23 20:53
Batch:	BLD0365	Sequence:	SLE0043	Initial/Final:	1.073 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	GE00013

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	25.8	20	0.46	0.89	
7439-92-1	Lead	31.7	20	0.09	0.18	
7440-22-4	Silver	0.28	20	0.04	0.35	J

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B
Total Metals

LDW23-SS1809

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-06 A	SDG:	23C0752
Sampled:	03/30/23 14:30	Prepared:	04/17/23 16:44	File ID:	XDT_m1230502-095
% Solids:	48.44	Preparation:	SWN EPA 3050B	Analyzed:	05/02/23 20:58
Batch:	BLD0365	Sequence:	SLE0043	Initial/Final:	1.027 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	GE00013

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	27.0	20	0.52	1.00	
7439-92-1	Lead	31.9	20	0.10	0.20	
7440-22-4	Silver	0.29	20	0.04	0.40	J

PREPARATION BATCH SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BLD0365 Batch Matrix: Solid
Preparation: SWN EPA 3050B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1026	23C0752-01	XDT_m1230502-091	04/17/23 16:44	
LDW23-SS1125	23C0752-02	XDT_m1230502-092	04/17/23 16:44	
LDW23-SS1132	23C0752-03	XDT_m1230502-093	04/17/23 16:44	
LDW23-SS1810	23C0752-04	XDT_m1230502-094	04/17/23 16:44	
LDW23-SS1809	23C0752-06	XDT_m1230502-095	04/17/23 16:44	
Blank	BLD0365-BLK1	XDT_m1230425-182	04/13/23 16:44	
LCS	BLD0365-BS1	XDT_m1230425-183	04/13/23 16:44	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Digestion Log

Analyst: AR Date: 4/17/23 Time: 1215-1750 Balance ID: BALIO

Matrix: Soil Block ID: 3 Block Temp: 95°C Thermometer: 20-2

ARI Sample ID	Btl #	pH<2	Prep Code: SWN Initial Wt (g) Vol (mL)	Prep Code: SWN Final Vol (mL)	Prep Code: Initial Wt (g) Vol (mL)	Prep Code: Final Vol (mL)	Comments
23A295-08	A		1.037	50			
23C752-01			1.061				
-02			1.040				
-03			1.056				
-04			1.073				
-06			1.077				
23C774-01	B		1.058				
-02			1.073				
-03			1.077				
-04			1.031				
-05			1.000				
-06			1.040				
-07			1.047				
-08			1.056				
-09			1.080				
-10			1.038				
-11			1.070				
-12			1.043				
-13			1.043				
-14			1.058				
BLD3165-blk	—		—				23C774-01
-bs	—		—				
-dup	—		1.055				
-MS	—		1.055				
-MSD	—		1.056				
—	—	—	—	—	—	—	—

Chemical/Reagent ID:

HNO_3: L26078 1:1 HNO_3: L23365 HCl: — H_2O_2: K110560

Tube Lot#: 2210117 Boiling Chip Lot#: — (DoD Only)

Form I

METHOD BLANK DATA SHEET

EPA 6020B

Total Metals

Blank

Laboratory: Analytical Resources, LLC | SDG: 23C0752

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

Batch: BLD0365 | Laboratory ID: BLD0365-BLK1 | Prepared: 04/13/23 16:44

Matrix: Solid | Preparation: SWN EPA 3050B | Analyzed: 04/26/23 08:35

Sequence: SLD0370 | Calibration: GD00066 | Instrument: ICPMS1

CAS NO.	Analyte	Concentration (mg/kg wet)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium-52	ND	20	0.26	0.50	U
7439-92-1	Lead-208	ND	20	0.05	0.10	U
7440-22-4	Silver-107	ND	20	0.02	0.20	U

LCS / LCS DUPLICATE RECOVERY

EPA 6020B

Total Metals

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	04/26/23 08:40
Batch:	BLD0365	Laboratory ID:	BLD0365-BS1
Preparation:	SWN EPA 3050B	Sequence Name:	LCS
Initial/Final:	1 g / 50 mL		

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Chromium-52	25.0	23.6		94.6	80 - 120
Lead-208	25.0	27.0		108	80 - 120
Silver-107	25.0	24.2		96.6	80 - 120

* Indicates values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00066
Control Limt: +/- 10.00%
Sequence: SLD0370

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLD0370-ICV1	Chromium-52	50.000	52.2	104	ug/L	EPA 6020B
	Chromium-53	50.000	53.5	107	ug/L	EPA 6020B
	Lead-208	50.000	51.6	103	ug/L	EPA 6020B
	Silver-107	50.000	52.7	105	ug/L	EPA 6020B
SLD0370-CCV1	Chromium-52	50.000	50.7	101	ug/L	EPA 6020B
	Chromium-53	50.000	51.6	103	ug/L	EPA 6020B
	Lead-208	50.000	49.3	98.5	ug/L	EPA 6020B
	Silver-107	50.000	52.2	104	ug/L	EPA 6020B
SLD0370-CCV2	Chromium-52	50.000	49.6	99.2	ug/L	EPA 6020B
	Chromium-53	50.000	50.9	102	ug/L	EPA 6020B
	Lead-208	50.000	49.8	99.5	ug/L	EPA 6020B
	Silver-107	50.000	50.6	101	ug/L	EPA 6020B
SLD0370-CCV3	Chromium-52	50.000	50.0	99.9	ug/L	EPA 6020B
	Chromium-53	50.000	50.3	101	ug/L	EPA 6020B
	Lead-208	50.000	49.9	99.9	ug/L	EPA 6020B
	Silver-107	50.000	50.8	102	ug/L	EPA 6020B
SLD0370-CCV4	Chromium-52	50.000	49.4	98.7	ug/L	EPA 6020B
	Chromium-53	50.000	49.5	99.1	ug/L	EPA 6020B
	Lead-208	50.000	49.9	99.8	ug/L	EPA 6020B
	Silver-107	50.000	49.5	98.9	ug/L	EPA 6020B
SLD0370-CCV5	Chromium-52	50.000	47.2	94.3	ug/L	EPA 6020B
	Chromium-53	50.000	47.6	95.2	ug/L	EPA 6020B
	Lead-208	50.000	50.2	100	ug/L	EPA 6020B
	Silver-107	50.000	48.4	96.8	ug/L	EPA 6020B
SLD0370-CCV6	Chromium-52	50.000	48.6	97.1	ug/L	EPA 6020B
	Chromium-53	50.000	50.0	100	ug/L	EPA 6020B
	Lead-208	50.000	49.9	99.8	ug/L	EPA 6020B
	Silver-107	50.000	49.6	99.1	ug/L	EPA 6020B
SLD0370-CCV7	Chromium-52	50.000	49.7	99.3	ug/L	EPA 6020B
	Chromium-53	50.000	50.1	100	ug/L	EPA 6020B
	Lead-208	50.000	50.0	100	ug/L	EPA 6020B
	Silver-107	50.000	50.0	99.9	ug/L	EPA 6020B
SLD0370-CCV8	Chromium-52	50.000	49.7	99.3	ug/L	EPA 6020B
	Chromium-53	50.000	50.8	102	ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00066
Control Limt: +/- 10.00%
Sequence: SLD0370

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLD0370-CCV8	Lead-208	50.000	49.3	98.7	ug/L	EPA 6020B
	Silver-107	50.000	49.7	99.5	ug/L	EPA 6020B
SLD0370-CCV9	Chromium-52	50.000	49.4	98.8	ug/L	EPA 6020B
	Chromium-53	50.000	50.4	101	ug/L	EPA 6020B
	Lead-208	50.000	50.8	102	ug/L	EPA 6020B
	Silver-107	50.000	49.7	99.4	ug/L	EPA 6020B
SLD0370-CCVA	Chromium-52	50.000	49.8	99.6	ug/L	EPA 6020B
	Chromium-53	50.000	50.0	100	ug/L	EPA 6020B
	Lead-208	50.000	49.0	98.1	ug/L	EPA 6020B
	Silver-107	50.000	50.5	101	ug/L	EPA 6020B
SLD0370-CCVB	Chromium-52	50.000	50.6	101	ug/L	EPA 6020B
	Chromium-53	50.000	51.6	103	ug/L	EPA 6020B
	Lead-208	50.000	51.3	103	ug/L	EPA 6020B
	Silver-107	50.000	50.1	100	ug/L	EPA 6020B
SLD0370-CCVC	Chromium-52	50.000	49.0	98.0	ug/L	EPA 6020B
	Chromium-53	50.000	50.3	101	ug/L	EPA 6020B
	Lead-208	50.000	47.9	95.7	ug/L	EPA 6020B
	Silver-107	50.000	51.7	103	ug/L	EPA 6020B
SLD0370-CCVD	Chromium-52	50.000	48.9	97.7	ug/L	EPA 6020B
	Chromium-53	50.000	49.8	99.6	ug/L	EPA 6020B
	Lead-208	50.000	48.6	97.2	ug/L	EPA 6020B
	Silver-107	50.000	51.0	102	ug/L	EPA 6020B
SLD0370-CCVE	Chromium-52	50.000	50.0	100	ug/L	EPA 6020B
	Chromium-53	50.000	50.0	100	ug/L	EPA 6020B
	Lead-208	50.000	48.9	97.8	ug/L	EPA 6020B
	Silver-107	50.000	50.3	101	ug/L	EPA 6020B
SLD0370-CCVF	Chromium-52	50.000	50.5	101	ug/L	EPA 6020B
	Chromium-53	50.000	49.9	99.8	ug/L	EPA 6020B
	Lead-208	50.000	49.2	98.4	ug/L	EPA 6020B
	Silver-107	50.000	51.4	103	ug/L	EPA 6020B
SLD0370-CCVG	Chromium-52	50.000	46.9	93.7	ug/L	EPA 6020B
	Chromium-53	50.000	47.5	94.9	ug/L	EPA 6020B
	Lead-208	50.000	52.3	105	ug/L	EPA 6020B
	Silver-107	50.000	45.9	91.8	ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00066
Control Limt: +/- 10.00%
Sequence: SLD0370

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLD0370-CCVH	Chromium-52	50.000	47.0	93.9	ug/L	EPA 6020B
	Chromium-53	50.000	47.8	95.5	ug/L	EPA 6020B
	Lead-208	50.000	51.0	102	ug/L	EPA 6020B
	Silver-107	50.000	46.4	92.8	ug/L	EPA 6020B
SLD0370-CCVI	Chromium-52	50.000	47.3	94.5	ug/L	EPA 6020B
	Chromium-53	50.000	48.0	95.9	ug/L	EPA 6020B
	Lead-208	50.000	51.2	102	ug/L	EPA 6020B
	Silver-107	50.000	48.0	96.0	ug/L	EPA 6020B
SLD0370-CCVJ	Chromium-52	50.000	47.3	94.6	ug/L	EPA 6020B
	Chromium-53	50.000	48.8	97.6	ug/L	EPA 6020B
	Lead-208	50.000	51.9	104	ug/L	EPA 6020B
	Silver-107	50.000	48.6	97.2	ug/L	EPA 6020B

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00073
Control Limt: +/- 10.00%
Sequence: SLD0387

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLD0387-ICV1	Chromium-52	50.000	50.0	100	ug/L	EPA 6020B
	Chromium-53	50.000	50.6	101	ug/L	EPA 6020B
	Lead-208	50.000	50.7	101	ug/L	EPA 6020B
SLD0387-CCV1	Chromium-52	50.000	49.7	99.5	ug/L	EPA 6020B
	Chromium-53	50.000	50.0	100	ug/L	EPA 6020B
	Lead-208	50.000	49.3	98.6	ug/L	EPA 6020B
SLD0387-CCV2	Chromium-52	50.000	51.3	103	ug/L	EPA 6020B
	Chromium-53	50.000	50.7	101	ug/L	EPA 6020B
	Lead-208	50.000	48.1	96.3	ug/L	EPA 6020B
SLD0387-CCV3	Chromium-52	50.000	50.6	101	ug/L	EPA 6020B
	Chromium-53	50.000	50.7	101	ug/L	EPA 6020B
	Lead-208	50.000	47.9	95.8	ug/L	EPA 6020B
SLD0387-CCV4	Chromium-52	50.000	50.0	100	ug/L	EPA 6020B
	Chromium-53	50.000	50.5	101	ug/L	EPA 6020B
	Lead-208	50.000	47.1	94.3	ug/L	EPA 6020B
SLD0387-CCV5	Chromium-52	50.000	50.5	101	ug/L	EPA 6020B
	Chromium-53	50.000	50.0	100	ug/L	EPA 6020B
	Lead-208	50.000	48.3	96.6	ug/L	EPA 6020B
SLD0387-CCV6	Chromium-52	50.000	50.4	101	ug/L	EPA 6020B
	Chromium-53	50.000	50.4	101	ug/L	EPA 6020B
	Lead-208	50.000	47.7	95.5	ug/L	EPA 6020B
SLD0387-CCV7	Chromium-52	50.000	49.8	99.5	ug/L	EPA 6020B
	Chromium-53	50.000	49.7	99.3	ug/L	EPA 6020B
	Lead-208	50.000	48.0	95.9	ug/L	EPA 6020B
SLD0387-CCV8	Chromium-52	50.000	49.9	99.7	ug/L	EPA 6020B
	Chromium-53	50.000	49.7	99.5	ug/L	EPA 6020B
	Lead-208	50.000	48.1	96.3	ug/L	EPA 6020B
SLD0387-CCV9	Chromium-52	50.000	51.6	103	ug/L	EPA 6020B
	Chromium-53	50.000	51.4	103	ug/L	EPA 6020B
	Lead-208	50.000	47.5	95.0	ug/L	EPA 6020B
SLD0387-CCVA	Chromium-52	50.000	50.5	101	ug/L	EPA 6020B
	Chromium-53	50.000	50.7	101	ug/L	EPA 6020B
	Lead-208	50.000	48.1	96.1	ug/L	EPA 6020B
SLD0387-CCVB	Chromium-52	50.000	50.3	101	ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Control Limt: +/- 10.00%

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00073
Sequence: SLD0387

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLD0387-CCVB	Chromium-53	50.000	50.1	100	ug/L	EPA 6020B
	Lead-208	50.000	47.6	95.1	ug/L	EPA 6020B
SLD0387-CCVC	Chromium-52	50.000	50.7	101	ug/L	EPA 6020B
	Chromium-53	50.000	50.4	101	ug/L	EPA 6020B
	Lead-208	50.000	46.7	93.3	ug/L	EPA 6020B
SLD0387-CCVD	Chromium-52	50.000	50.3	101	ug/L	EPA 6020B
	Chromium-53	50.000	50.2	100	ug/L	EPA 6020B
	Lead-208	50.000	46.0	92.0	ug/L	EPA 6020B
SLD0387-CCVE	Chromium-52	50.000	50.6	101	ug/L	EPA 6020B
	Chromium-53	50.000	50.1	100	ug/L	EPA 6020B
	Lead-208	50.000	46.4	92.7	ug/L	EPA 6020B
SLD0387-CCVF	Chromium-52	50.000	49.3	98.6	ug/L	EPA 6020B
	Chromium-53	50.000	50.6	101	ug/L	EPA 6020B
	Lead-208	50.000	47.1	94.2	ug/L	EPA 6020B
SLD0387-CCVG	Chromium-52	50.000	49.9	99.8	ug/L	EPA 6020B
	Chromium-53	50.000	49.7	99.4	ug/L	EPA 6020B
	Lead-208	50.000	47.2	94.4	ug/L	EPA 6020B
SLD0387-CCVH	Chromium-52	50.000	49.5	99.1	ug/L	EPA 6020B
	Chromium-53	50.000	49.6	99.2	ug/L	EPA 6020B
	Lead-208	50.000	47.5	95.0	ug/L	EPA 6020B

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00078
Control Limt: +/- 10.00%
Sequence: SLD0418

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLD0418-ICV1	Chromium-52	50.000	52.9	106	ug/L	EPA 6020B
	Chromium-53	50.000	51.7	103	ug/L	EPA 6020B
	Lead-208	50.000	51.0	102	ug/L	EPA 6020B
	Silver-107	50.000	50.9	102	ug/L	EPA 6020B
SLD0418-CCV1	Chromium-52	50.000	51.7	103	ug/L	EPA 6020B
	Chromium-53	50.000	50.5	101	ug/L	EPA 6020B
	Lead-208	50.000	50.5	101	ug/L	EPA 6020B
	Silver-107	50.000	50.6	101	ug/L	EPA 6020B
SLD0418-CCV2	Chromium-52	50.000	51.5	103	ug/L	EPA 6020B
	Chromium-53	50.000	51.3	103	ug/L	EPA 6020B
	Lead-208	50.000	50.1	100	ug/L	EPA 6020B
	Silver-107	50.000	51.1	102	ug/L	EPA 6020B
SLD0418-CCV3	Chromium-52	50.000	50.3	101	ug/L	EPA 6020B
	Chromium-53	50.000	48.8	97.5	ug/L	EPA 6020B
	Lead-208	50.000	52.8	106	ug/L	EPA 6020B
	Silver-107	50.000	48.7	97.3	ug/L	EPA 6020B
SLD0418-CCV4	Chromium-52	50.000	50.0	100	ug/L	EPA 6020B
	Chromium-53	50.000	49.7	99.5	ug/L	EPA 6020B
	Lead-208	50.000	52.3	105	ug/L	EPA 6020B
	Silver-107	50.000	49.1	98.2	ug/L	EPA 6020B
SLD0418-CCV5	Chromium-52	50.000	47.7	95.5	ug/L	EPA 6020B
	Chromium-53	50.000	48.0	96.0	ug/L	EPA 6020B
	Lead-208	50.000	54.9	110	ug/L	EPA 6020B
	Silver-107	50.000	47.2	94.5	ug/L	EPA 6020B
SLD0418-CCV6	Chromium-52	50.000	49.8	99.6	ug/L	EPA 6020B
	Chromium-53	50.000	49.3	98.6	ug/L	EPA 6020B
	Lead-208	50.000	53.1	106	ug/L	EPA 6020B
	Silver-107	50.000	48.0	96.1	ug/L	EPA 6020B
SLD0418-CCV7	Chromium-52	50.000	49.9	99.8	ug/L	EPA 6020B
	Chromium-53	50.000	48.5	97.1	ug/L	EPA 6020B
	Lead-208	50.000	51.7	103	ug/L	EPA 6020B
	Silver-107	50.000	48.4	96.9	ug/L	EPA 6020B
SLD0418-CCV8	Chromium-52	50.000	49.4	98.8	ug/L	EPA 6020B
	Chromium-53	50.000	48.5	97.0	ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00078
Control Limt: +/- 10.00%
Sequence: SLD0418

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLD0418-CCV8	Lead-208	50.000	53.1	106	ug/L	EPA 6020B
	Silver-107	50.000	48.8	97.7	ug/L	EPA 6020B
SLD0418-CCV9	Chromium-52	50.000	49.6	99.2	ug/L	EPA 6020B
	Chromium-53	50.000	48.7	97.4	ug/L	EPA 6020B
	Lead-208	50.000	52.7	105	ug/L	EPA 6020B
	Silver-107	50.000	48.4	96.9	ug/L	EPA 6020B
SLD0418-CCVA	Chromium-52	50.000	48.2	96.4	ug/L	EPA 6020B
	Chromium-53	50.000	48.0	95.9	ug/L	EPA 6020B
	Lead-208	50.000	52.0	104	ug/L	EPA 6020B
	Silver-107	50.000	49.3	98.7	ug/L	EPA 6020B
SLD0418-CCVB	Chromium-52	50.000	49.3	98.5	ug/L	EPA 6020B
	Chromium-53	50.000	48.4	96.9	ug/L	EPA 6020B
	Lead-208	50.000	52.5	105	ug/L	EPA 6020B
	Silver-107	50.000	48.7	97.3	ug/L	EPA 6020B
SLD0418-CCVC	Chromium-52	50.000	49.4	98.7	ug/L	EPA 6020B
	Chromium-53	50.000	48.9	97.7	ug/L	EPA 6020B
	Lead-208	50.000	52.7	105	ug/L	EPA 6020B
	Silver-107	50.000	50.0	99.9	ug/L	EPA 6020B
SLD0418-CCVD	Chromium-52	50.000	49.8	99.6	ug/L	EPA 6020B
	Chromium-53	50.000	49.4	98.8	ug/L	EPA 6020B
	Lead-208	50.000	52.5	105	ug/L	EPA 6020B
	Silver-107	50.000	49.9	99.7	ug/L	EPA 6020B
SLD0418-CCVE	Chromium-52	50.000	50.0	100	ug/L	EPA 6020B
	Chromium-53	50.000	48.4	96.8	ug/L	EPA 6020B
	Lead-208	50.000	51.8	104	ug/L	EPA 6020B
	Silver-107	50.000	48.9	97.8	ug/L	EPA 6020B
SLD0418-CCVF	Chromium-52	50.000	50.0	99.9	ug/L	EPA 6020B
	Chromium-53	50.000	49.7	99.4	ug/L	EPA 6020B
	Lead-208	50.000	54.6	109	ug/L	EPA 6020B
	Silver-107	50.000	49.2	98.3	ug/L	EPA 6020B
SLD0418-CCVG	Chromium-52	50.000	49.3	98.5	ug/L	EPA 6020B
	Chromium-53	50.000	48.9	97.9	ug/L	EPA 6020B
	Lead-208	50.000	54.2	108	ug/L	EPA 6020B
	Silver-107	50.000	48.9	97.9	ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Control Limt: +/- 10.00%

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00078
Sequence: SLD0418

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLD0418-CCVH	Chromium-52	50.000	50.6	101	ug/L	EPA 6020B
	Chromium-53	50.000	49.2	98.3	ug/L	EPA 6020B
	Lead-208	50.000	54.3	109	ug/L	EPA 6020B
	Silver-107	50.000	49.3	98.6	ug/L	EPA 6020B
SLD0418-CCVI	Chromium-52	50.000	48.9	97.9	ug/L	EPA 6020B
	Chromium-53	50.000	48.4	96.8	ug/L	EPA 6020B
	Lead-208	50.000	54.7	109	ug/L	EPA 6020B
	Silver-107	50.000	48.3	96.6	ug/L	EPA 6020B
SLD0418-CCVJ	Chromium-52	50.000	49.4	98.9	ug/L	EPA 6020B
	Chromium-53	50.000	48.8	97.6	ug/L	EPA 6020B
	Lead-208	50.000	55.8	112	ug/L	EPA 6020B
	Silver-107	50.000	47.5	95.0	ug/L	EPA 6020B
SLD0418-CCVK	Chromium-52	50.000	50.4	101	ug/L	EPA 6020B
	Chromium-53	50.000	49.6	99.1	ug/L	EPA 6020B
	Lead-208	50.000	54.3	109	ug/L	EPA 6020B
	Silver-107	50.000	48.6	97.3	ug/L	EPA 6020B
SLD0418-CCVL	Chromium-52	50.000	50.0	99.9	ug/L	EPA 6020B
	Chromium-53	50.000	49.2	98.3	ug/L	EPA 6020B
	Lead-208	50.000	55.6	111	ug/L	EPA 6020B
	Silver-107	50.000	47.8	95.7	ug/L	EPA 6020B
SLD0418-CCVM	Chromium-52	50.000	48.1	96.1	ug/L	EPA 6020B
	Chromium-53	50.000	47.5	95.1	ug/L	EPA 6020B
	Lead-208	50.000	60.0	120	ug/L	EPA 6020B
	Silver-107	50.000	46.9	93.8	ug/L	EPA 6020B
SLD0418-CCVN	Chromium-52	50.000	48.3	96.6	ug/L	EPA 6020B
	Chromium-53	50.000	48.2	96.3	ug/L	EPA 6020B
SLD0418-CCVO	Chromium-52	50.000	48.7	97.4	ug/L	EPA 6020B
	Chromium-53	50.000	47.7	95.4	ug/L	EPA 6020B
SLD0418-CCVP	Chromium-52	50.000	48.5	96.9	ug/L	EPA 6020B
	Chromium-53	50.000	47.7	95.5	ug/L	EPA 6020B
SLD0418-CCVQ	Chromium-52	50.000	47.2	94.4	ug/L	EPA 6020B
	Chromium-53	50.000	47.2	94.4	ug/L	EPA 6020B
SLD0418-CCVR	Chromium-52	50.000	49.6	99.2	ug/L	EPA 6020B
	Chromium-53	50.000	49.1	98.3	ug/L	EPA 6020B

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00013
Control Limt: +/- 10.00%
Sequence: SLE0043

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0043-ICV1	Chromium-52	50.000	50.6	101	ug/L	EPA 6020B
	Chromium-53	50.000	51.5	103	ug/L	EPA 6020B
	Lead-208	50.000	51.5	103	ug/L	EPA 6020B
	Silver-107	50.000	52.3	105	ug/L	EPA 6020B
SLE0043-CCV1	Chromium-52	50.000	49.1	98.1	ug/L	EPA 6020B
	Chromium-53	50.000	50.0	100	ug/L	EPA 6020B
	Lead-208	50.000	50.5	101	ug/L	EPA 6020B
	Silver-107	50.000	49.9	99.7	ug/L	EPA 6020B
SLE0043-CCV2	Chromium-52	50.000	49.4	98.7	ug/L	EPA 6020B
	Chromium-53	50.000	49.3	98.5	ug/L	EPA 6020B
	Lead-208	50.000	52.1	104	ug/L	EPA 6020B
	Silver-107	50.000	49.3	98.6	ug/L	EPA 6020B
SLE0043-CCV3	Chromium-52	50.000	48.6	97.2	ug/L	EPA 6020B
	Chromium-53	50.000	49.4	98.7	ug/L	EPA 6020B
	Lead-208	50.000	50.7	101	ug/L	EPA 6020B
	Silver-107	50.000	49.1	98.1	ug/L	EPA 6020B
SLE0043-CCV4	Chromium-52	50.000	50.0	100	ug/L	EPA 6020B
	Chromium-53	50.000	50.2	100	ug/L	EPA 6020B
	Lead-208	50.000	52.0	104	ug/L	EPA 6020B
	Silver-107	50.000	50.1	100	ug/L	EPA 6020B
SLE0043-CCV5	Chromium-52	50.000	49.8	99.7	ug/L	EPA 6020B
	Chromium-53	50.000	50.6	101	ug/L	EPA 6020B
	Lead-208	50.000	51.5	103	ug/L	EPA 6020B
	Silver-107	50.000	50.7	101	ug/L	EPA 6020B
SLE0043-CCV6	Chromium-52	50.000	49.6	99.1	ug/L	EPA 6020B
	Chromium-53	50.000	50.3	101	ug/L	EPA 6020B
	Lead-208	50.000	52.7	105	ug/L	EPA 6020B
	Silver-107	50.000	50.7	101	ug/L	EPA 6020B
SLE0043-CCV7	Chromium-52	50.000	50.0	100	ug/L	EPA 6020B
	Chromium-53	50.000	50.6	101	ug/L	EPA 6020B
	Lead-208	50.000	54.2	108	ug/L	EPA 6020B
	Silver-107	50.000	51.5	103	ug/L	EPA 6020B
SLE0043-CCV8	Chromium-52	50.000	49.7	99.3	ug/L	EPA 6020B
	Chromium-53	50.000	50.3	101	ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Control Limt: +/- 10.00%

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GE00013
Sequence: SLE0043

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0043-CCV8	Lead-208	50.000	54.5	109	ug/L	EPA 6020B
	Silver-107	50.000	50.7	101	ug/L	EPA 6020B
SLE0043-CCV9	Chromium-52	50.000	50.6	101	ug/L	EPA 6020B
	Chromium-53	50.000	51.2	102	ug/L	EPA 6020B
	Lead-208	50.000	54.5	109	ug/L	EPA 6020B
	Silver-107	50.000	50.8	102	ug/L	EPA 6020B
SLE0043-CCVA	Chromium-52	50.000	50.0	100	ug/L	EPA 6020B
	Chromium-53	50.000	50.4	101	ug/L	EPA 6020B
	Lead-208	50.000	53.6	107	ug/L	EPA 6020B
	Silver-107	50.000	50.5	101	ug/L	EPA 6020B
SLE0043-CCVB	Chromium-52	50.000	50.1	100	ug/L	EPA 6020B
	Chromium-53	50.000	50.9	102	ug/L	EPA 6020B
	Lead-208	50.000	55.4	111	ug/L	EPA 6020B
	Silver-107	50.000	49.9	99.9	ug/L	EPA 6020B
SLE0043-CCVC	Chromium-52	50.000	50.1	100	ug/L	EPA 6020B
	Chromium-53	50.000	50.5	101	ug/L	EPA 6020B
	Lead-208	50.000	55.4	111	ug/L	EPA 6020B
	Silver-107	50.000	49.3	98.5	ug/L	EPA 6020B
SLE0043-CCVD	Chromium-52	50.000	49.8	99.5	ug/L	EPA 6020B
	Chromium-53	50.000	51.0	102	ug/L	EPA 6020B
	Lead-208	50.000	56.3	113	ug/L	EPA 6020B
	Silver-107	50.000	49.6	99.1	ug/L	EPA 6020B
SLE0043-CCVE	Chromium-52	50.000	50.0	100	ug/L	EPA 6020B
	Chromium-53	50.000	50.6	101	ug/L	EPA 6020B
	Lead-208	50.000	55.3	111	ug/L	EPA 6020B
	Silver-107	50.000	50.0	100	ug/L	EPA 6020B
SLE0043-CCVF	Chromium-52	50.000	51.0	102	ug/L	EPA 6020B
	Chromium-53	50.000	50.8	102	ug/L	EPA 6020B
	Lead-208	50.000	56.2	112	ug/L	EPA 6020B
	Silver-107	50.000	49.1	98.1	ug/L	EPA 6020B
SLE0043-CCVG	Chromium-52	50.000	49.7	99.4	ug/L	EPA 6020B
	Chromium-53	50.000	50.7	101	ug/L	EPA 6020B
	Lead-208	50.000	56.6	113	ug/L	EPA 6020B
	Silver-107	50.000	49.5	98.9	ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00013
Control Limt: +/- 10.00%
Sequence: SLE0043

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0043-CCVH	Chromium-52	50.000	52.7	105	ug/L	EPA 6020B
	Chromium-53	50.000	53.4	107	ug/L	EPA 6020B
	Lead-208	50.000	60.1	120	ug/L	EPA 6020B
	Silver-107	50.000	52.8	106	ug/L	EPA 6020B
SLE0043-CCVI	Chromium-52	50.000	49.3	98.6	ug/L	EPA 6020B
	Chromium-53	50.000	50.1	100	ug/L	EPA 6020B
	Lead-208	50.000	58.4	117	ug/L	EPA 6020B
	Silver-107	50.000	49.0	98.0	ug/L	EPA 6020B
SLE0043-CCVJ	Chromium-52	50.000	49.7	99.4	ug/L	EPA 6020B
	Chromium-53	50.000	50.2	100	ug/L	EPA 6020B
	Lead-208	50.000	57.9	116	ug/L	EPA 6020B
	Silver-107	50.000	49.2	98.5	ug/L	EPA 6020B
SLE0043-CCVK	Chromium-52	50.000	50.5	101	ug/L	EPA 6020B
	Chromium-53	50.000	51.8	104	ug/L	EPA 6020B
	Lead-208	50.000	57.8	116	ug/L	EPA 6020B
	Silver-107	50.000	49.8	99.6	ug/L	EPA 6020B

* Values outside of QC limits

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0370

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00066
Date Analyzed: 04/25/23 17:47

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0370-IBL1	Chromium-52	0.0630	0.26	0.500	ug/L	
SLD0370-IBL1	Chromium-53	0.0120	0.239	0.500	ug/L	
SLD0370-IBL1	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLD0370-IBL1	Silver-107	0.00300	0.022	0.200	ug/L	
SLD0370-ICB1	Chromium-52	0.0690	0.26	0.500	ug/L	
SLD0370-ICB1	Chromium-53	0.00200	0.239	0.500	ug/L	
SLD0370-ICB1	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLD0370-ICB1	Silver-107	0.00300	0.022	0.200	ug/L	
SLD0370-CCB1	Chromium-52	0.0650	0.26	0.500	ug/L	
SLD0370-CCB1	Chromium-53	0.00100	0.239	0.500	ug/L	
SLD0370-CCB1	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLD0370-CCB1	Silver-107	0.00200	0.022	0.200	ug/L	
SLD0370-IBL2	Chromium-52	0.0380	0.26	0.500	ug/L	
SLD0370-IBL2	Chromium-53	0.0520	0.239	0.500	ug/L	
SLD0370-IBL2	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLD0370-IBL2	Silver-107	0.00900	0.022	0.200	ug/L	
SLD0370-IBL3	Chromium-52	0.0370	0.26	0.500	ug/L	
SLD0370-IBL3	Chromium-53	0.0360	0.239	0.500	ug/L	
SLD0370-IBL3	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLD0370-IBL3	Silver-107	0.00100	0.022	0.200	ug/L	
SLD0370-CCB2	Chromium-52	0.0810	0.26	0.500	ug/L	
SLD0370-CCB2	Chromium-53	0.0300	0.239	0.500	ug/L	
SLD0370-CCB2	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLD0370-CCB2	Silver-107	0.00200	0.022	0.200	ug/L	
SLD0370-IBL4	Chromium-52	0.0610	0.26	0.500	ug/L	
SLD0370-IBL4	Chromium-53	0.0900	0.239	0.500	ug/L	
SLD0370-IBL4	Lead-208	0.00100	0.0513	0.100	ug/L	
SLD0370-IBL4	Silver-107	0.00100	0.022	0.200	ug/L	
SLD0370-CCB3	Chromium-52	0.0580	0.26	0.500	ug/L	
SLD0370-CCB3	Chromium-53	0.0260	0.239	0.500	ug/L	
SLD0370-CCB3	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLD0370-CCB3	Silver-107	0.00100	0.022	0.200	ug/L	
SLD0370-IBL5	Chromium-52	0.102	0.26	0.500	ug/L	
SLD0370-IBL5	Chromium-53	0.00200	0.239	0.500	ug/L	
SLD0370-IBL5	Lead-208	0.00	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0370

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00066
Date Analyzed: 04/25/23 21:08

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0370-IBL5	Silver-107	-0.00100	0.022	0.200	ug/L	
SLD0370-CCB4	Chromium-52	0.0120	0.26	0.500	ug/L	
SLD0370-CCB4	Chromium-53	-0.0150	0.239	0.500	ug/L	
SLD0370-CCB4	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLD0370-CCB4	Silver-107	0.00100	0.022	0.200	ug/L	
SLD0370-IBL6	Chromium-52	0.0590	0.26	0.500	ug/L	
SLD0370-IBL6	Chromium-53	-0.00600	0.239	0.500	ug/L	
SLD0370-IBL6	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLD0370-IBL6	Silver-107	-0.00100	0.022	0.200	ug/L	
SLD0370-CCB5	Chromium-52	0.0320	0.26	0.500	ug/L	
SLD0370-CCB5	Chromium-53	-0.0150	0.239	0.500	ug/L	
SLD0370-CCB5	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0370-CCB5	Silver-107	0.00	0.022	0.200	ug/L	
SLD0370-CCB6	Chromium-52	0.0170	0.26	0.500	ug/L	
SLD0370-CCB6	Chromium-53	0.00300	0.239	0.500	ug/L	
SLD0370-CCB6	Lead-208	0.00100	0.0513	0.100	ug/L	
SLD0370-CCB6	Silver-107	0.00200	0.022	0.200	ug/L	
SLD0370-IBL7	Chromium-52	0.0680	0.26	0.500	ug/L	
SLD0370-IBL7	Chromium-53	0.00900	0.239	0.500	ug/L	
SLD0370-IBL7	Lead-208	0.00100	0.0513	0.100	ug/L	
SLD0370-IBL7	Silver-107	0.00	0.022	0.200	ug/L	
SLD0370-CCB7	Chromium-52	0.0900	0.26	0.500	ug/L	
SLD0370-CCB7	Chromium-53	0.0200	0.239	0.500	ug/L	
SLD0370-CCB7	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0370-CCB7	Silver-107	0.00100	0.022	0.200	ug/L	
SLD0370-IBL8	Chromium-52	0.222	0.26	0.500	ug/L	
SLD0370-IBL8	Chromium-53	0.725	0.239	0.500	ug/L	
SLD0370-IBL8	Lead-208	0.00200	0.0513	0.100	ug/L	
SLD0370-IBL8	Silver-107	0.00	0.022	0.200	ug/L	
SLD0370-IBL9	Chromium-52	0.186	0.26	0.500	ug/L	
SLD0370-IBL9	Chromium-53	0.407	0.239	0.500	ug/L	
SLD0370-IBL9	Lead-208	0.00200	0.0513	0.100	ug/L	
SLD0370-IBL9	Silver-107	-0.00100	0.022	0.200	ug/L	
SLD0370-CCB8	Chromium-52	0.0250	0.26	0.500	ug/L	
SLD0370-CCB8	Chromium-53	0.167	0.239	0.500	ug/L	
SLD0370-CCB8	Lead-208	0.00	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0370

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00066
Date Analyzed: 04/26/23 01:23

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0370-CCB8	Silver-107	0.00100	0.022	0.200	ug/L	
SLD0370-IBLA	Chromium-52	-0.0150	0.26	0.500	ug/L	
SLD0370-IBLA	Chromium-53	0.0370	0.239	0.500	ug/L	
SLD0370-IBLA	Lead-208	0.00100	0.0513	0.100	ug/L	
SLD0370-IBLA	Silver-107	0.00100	0.022	0.200	ug/L	
SLD0370-CCB9	Chromium-52	0.0200	0.26	0.500	ug/L	
SLD0370-CCB9	Chromium-53	0.0300	0.239	0.500	ug/L	
SLD0370-CCB9	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0370-CCB9	Silver-107	0.00100	0.022	0.200	ug/L	
SLD0370-CCBA	Chromium-52	0.0160	0.26	0.500	ug/L	
SLD0370-CCBA	Chromium-53	-0.00400	0.239	0.500	ug/L	
SLD0370-CCBA	Lead-208	0.00100	0.0513	0.100	ug/L	
SLD0370-CCBA	Silver-107	0.00100	0.022	0.200	ug/L	
SLD0370-IBLB	Chromium-52	-0.0180	0.26	0.500	ug/L	
SLD0370-IBLB	Chromium-53	0.0590	0.239	0.500	ug/L	
SLD0370-IBLB	Lead-208	0.00100	0.0513	0.100	ug/L	
SLD0370-IBLB	Silver-107	0.00	0.022	0.200	ug/L	
SLD0370-IBLC	Chromium-52	-0.0590	0.26	0.500	ug/L	
SLD0370-IBLC	Chromium-53	-0.0130	0.239	0.500	ug/L	
SLD0370-IBLC	Lead-208	0.00200	0.0513	0.100	ug/L	
SLD0370-IBLC	Silver-107	0.00	0.022	0.200	ug/L	
SLD0370-CCBB	Chromium-52	-0.0230	0.26	0.500	ug/L	
SLD0370-CCBB	Chromium-53	-0.0220	0.239	0.500	ug/L	
SLD0370-CCBB	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0370-CCBB	Silver-107	0.00100	0.022	0.200	ug/L	
SLD0370-IBLD	Chromium-52	0.0690	0.26	0.500	ug/L	
SLD0370-IBLD	Chromium-53	-0.0220	0.239	0.500	ug/L	
SLD0370-IBLD	Lead-208	0.00200	0.0513	0.100	ug/L	
SLD0370-IBLD	Silver-107	0.00100	0.022	0.200	ug/L	
SLD0370-CCBC	Chromium-52	0.0470	0.26	0.500	ug/L	
SLD0370-CCBC	Chromium-53	-0.0270	0.239	0.500	ug/L	
SLD0370-CCBC	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0370-CCBC	Silver-107	0.00200	0.022	0.200	ug/L	
SLD0370-IBLE	Chromium-52	0.0200	0.26	0.500	ug/L	
SLD0370-IBLE	Chromium-53	-0.0170	0.239	0.500	ug/L	
SLD0370-IBLE	Lead-208	-0.00300	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0370

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00066
Date Analyzed: 04/26/23 05:21

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0370-IBLE	Silver-107	0.00	0.022	0.200	ug/L	
SLD0370-IBLF	Chromium-52	0.0150	0.26	0.500	ug/L	
SLD0370-IBLF	Chromium-53	-0.0240	0.239	0.500	ug/L	
SLD0370-IBLF	Lead-208	-0.00300	0.0513	0.100	ug/L	
SLD0370-IBLF	Silver-107	-0.00100	0.022	0.200	ug/L	
SLD0370-CCBD	Chromium-52	0.0690	0.26	0.500	ug/L	
SLD0370-CCBD	Chromium-53	-0.0260	0.239	0.500	ug/L	
SLD0370-CCBD	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0370-CCBD	Silver-107	0.00100	0.022	0.200	ug/L	
SLD0370-IBLG	Chromium-52	0.00900	0.26	0.500	ug/L	
SLD0370-IBLG	Chromium-53	-0.0170	0.239	0.500	ug/L	
SLD0370-IBLG	Lead-208	-0.00300	0.0513	0.100	ug/L	
SLD0370-IBLG	Silver-107	0.00100	0.022	0.200	ug/L	
SLD0370-CCBE	Chromium-52	0.00300	0.26	0.500	ug/L	
SLD0370-CCBE	Chromium-53	-0.0240	0.239	0.500	ug/L	
SLD0370-CCBE	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0370-CCBE	Silver-107	0.00100	0.022	0.200	ug/L	
SLD0370-CCBF	Chromium-52	-0.00400	0.26	0.500	ug/L	
SLD0370-CCBF	Chromium-53	-0.00500	0.239	0.500	ug/L	
SLD0370-CCBF	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLD0370-CCBF	Silver-107	0.00100	0.022	0.200	ug/L	
SLD0370-IBLH	Chromium-52	0.0130	0.26	0.500	ug/L	
SLD0370-IBLH	Chromium-53	0.167	0.239	0.500	ug/L	
SLD0370-IBLH	Lead-208	-0.00300	0.0513	0.100	ug/L	
SLD0370-IBLH	Silver-107	-0.00100	0.022	0.200	ug/L	
SLD0370-CCBG	Chromium-52	-0.131	0.26	0.500	ug/L	
SLD0370-CCBG	Chromium-53	0.117	0.239	0.500	ug/L	
SLD0370-CCBG	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0370-CCBG	Silver-107	0.00100	0.022	0.200	ug/L	
SLD0370-IBLI	Chromium-52	-0.124	0.26	0.500	ug/L	
SLD0370-IBLI	Chromium-53	0.0740	0.239	0.500	ug/L	
SLD0370-IBLI	Lead-208	-0.00300	0.0513	0.100	ug/L	
SLD0370-IBLI	Silver-107	-0.00100	0.022	0.200	ug/L	
SLD0370-CCBH	Chromium-52	-0.126	0.26	0.500	ug/L	
SLD0370-CCBH	Chromium-53	0.0440	0.239	0.500	ug/L	
SLD0370-CCBH	Lead-208	0.00	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0370

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00066
Date Analyzed: 04/26/23 09:33

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0370-CCBH	Silver-107	0.00100	0.022	0.200	ug/L	
SLD0370-IBLJ	Chromium-52	-0.0710	0.26	0.500	ug/L	
SLD0370-IBLJ	Chromium-53	0.00800	0.239	0.500	ug/L	
SLD0370-IBLJ	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLD0370-IBLJ	Silver-107	0.00	0.022	0.200	ug/L	
SLD0370-CCBI	Chromium-52	-0.106	0.26	0.500	ug/L	
SLD0370-CCBI	Chromium-53	0.0130	0.239	0.500	ug/L	
SLD0370-CCBI	Lead-208	0.00100	0.0513	0.100	ug/L	
SLD0370-CCBI	Silver-107	0.00100	0.022	0.200	ug/L	
SLD0370-IBLK	Chromium-52	-0.0560	0.26	0.500	ug/L	
SLD0370-IBLK	Chromium-53	0.0490	0.239	0.500	ug/L	
SLD0370-IBLK	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLD0370-IBLK	Silver-107	-0.00100	0.022	0.200	ug/L	
SLD0370-CCBJ	Chromium-52	-0.0920	0.26	0.500	ug/L	
SLD0370-CCBJ	Chromium-53	0.0270	0.239	0.500	ug/L	
SLD0370-CCBJ	Lead-208	0.00200	0.0513	0.100	ug/L	
SLD0370-CCBJ	Silver-107	0.00	0.022	0.200	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0387

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00073
Date Analyzed: 04/26/23 15:49

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0387-IBL1	Chromium-52	0.0550	0.26	0.500	ug/L	
SLD0387-IBL1	Chromium-53	0.0250	0.239	0.500	ug/L	
SLD0387-IBL1	Lead-208	0.00700	0.0513	0.100	ug/L	
SLD0387-ICB1	Chromium-52	0.0560	0.26	0.500	ug/L	
SLD0387-ICB1	Chromium-53	0.0220	0.239	0.500	ug/L	
SLD0387-ICB1	Lead-208	0.00100	0.0513	0.100	ug/L	
SLD0387-CCB1	Chromium-52	0.0690	0.26	0.500	ug/L	
SLD0387-CCB1	Chromium-53	0.0130	0.239	0.500	ug/L	
SLD0387-CCB1	Lead-208	0.00100	0.0513	0.100	ug/L	
SLD0387-IBL2	Chromium-52	0.151	0.26	0.500	ug/L	
SLD0387-IBL2	Chromium-53	0.117	0.239	0.500	ug/L	
SLD0387-IBL2	Lead-208	0.0170	0.0513	0.100	ug/L	
SLD0387-CCB2	Chromium-52	0.129	0.26	0.500	ug/L	
SLD0387-CCB2	Chromium-53	0.0800	0.239	0.500	ug/L	
SLD0387-CCB2	Lead-208	0.00100	0.0513	0.100	ug/L	
SLD0387-CCB3	Chromium-52	-0.00400	0.26	0.500	ug/L	
SLD0387-CCB3	Chromium-53	-0.0220	0.239	0.500	ug/L	
SLD0387-CCB3	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0387-IBL3	Chromium-52	0.0150	0.26	0.500	ug/L	
SLD0387-IBL3	Chromium-53	-0.00200	0.239	0.500	ug/L	
SLD0387-IBL3	Lead-208	0.00700	0.0513	0.100	ug/L	
SLD0387-CCB4	Chromium-52	-0.00400	0.26	0.500	ug/L	
SLD0387-CCB4	Chromium-53	-0.0230	0.239	0.500	ug/L	
SLD0387-CCB4	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0387-IBL4	Chromium-52	0.0900	0.26	0.500	ug/L	
SLD0387-IBL4	Chromium-53	-0.0110	0.239	0.500	ug/L	
SLD0387-IBL4	Lead-208	0.00100	0.0513	0.100	ug/L	
SLD0387-CCB5	Chromium-52	0.00900	0.26	0.500	ug/L	
SLD0387-CCB5	Chromium-53	-0.0490	0.239	0.500	ug/L	
SLD0387-CCB5	Lead-208	0.00100	0.0513	0.100	ug/L	
SLD0387-IBL5	Chromium-52	0.0500	0.26	0.500	ug/L	
SLD0387-IBL5	Chromium-53	-0.0600	0.239	0.500	ug/L	
SLD0387-IBL5	Lead-208	0.00100	0.0513	0.100	ug/L	
SLD0387-CCB6	Chromium-52	-0.0120	0.26	0.500	ug/L	
SLD0387-CCB6	Chromium-53	-0.0670	0.239	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0387

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00073
Date Analyzed: 04/26/23 20:29

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0387-CCB6	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0387-IBL6	Chromium-52	-0.0180	0.26	0.500	ug/L	
SLD0387-IBL6	Chromium-53	-0.0690	0.239	0.500	ug/L	
SLD0387-IBL6	Lead-208	0.00100	0.0513	0.100	ug/L	
SLD0387-CCB7	Chromium-52	-0.0460	0.26	0.500	ug/L	
SLD0387-CCB7	Chromium-53	-0.0720	0.239	0.500	ug/L	
SLD0387-CCB7	Lead-208	0.00100	0.0513	0.100	ug/L	
SLD0387-CCB8	Chromium-52	0.0220	0.26	0.500	ug/L	
SLD0387-CCB8	Chromium-53	0.00100	0.239	0.500	ug/L	
SLD0387-CCB8	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0387-IBL7	Chromium-52	0.0210	0.26	0.500	ug/L	
SLD0387-IBL7	Chromium-53	0.00500	0.239	0.500	ug/L	
SLD0387-IBL7	Lead-208	0.00100	0.0513	0.100	ug/L	
SLD0387-CCB9	Chromium-52	0.0390	0.26	0.500	ug/L	
SLD0387-CCB9	Chromium-53	0.0190	0.239	0.500	ug/L	
SLD0387-CCB9	Lead-208	0.00700	0.0513	0.100	ug/L	
SLD0387-IBL8	Chromium-52	0.0210	0.26	0.500	ug/L	
SLD0387-IBL8	Chromium-53	0.130	0.239	0.500	ug/L	
SLD0387-IBL8	Lead-208	0.00100	0.0513	0.100	ug/L	
SLD0387-CCBA	Chromium-52	0.0490	0.26	0.500	ug/L	
SLD0387-CCBA	Chromium-53	0.0480	0.239	0.500	ug/L	
SLD0387-CCBA	Lead-208	0.00100	0.0513	0.100	ug/L	
SLD0387-IBL9	Chromium-52	0.0410	0.26	0.500	ug/L	
SLD0387-IBL9	Chromium-53	0.0270	0.239	0.500	ug/L	
SLD0387-IBL9	Lead-208	0.00200	0.0513	0.100	ug/L	
SLD0387-CCBB	Chromium-52	0.0680	0.26	0.500	ug/L	
SLD0387-CCBB	Chromium-53	0.0150	0.239	0.500	ug/L	
SLD0387-CCBB	Lead-208	0.00200	0.0513	0.100	ug/L	
SLD0387-IBLA	Chromium-52	0.0220	0.26	0.500	ug/L	
SLD0387-IBLA	Chromium-53	0.0260	0.239	0.500	ug/L	
SLD0387-IBLA	Lead-208	0.00400	0.0513	0.100	ug/L	
SLD0387-CCBC	Chromium-52	0.0490	0.26	0.500	ug/L	
SLD0387-CCBC	Chromium-53	0.0160	0.239	0.500	ug/L	
SLD0387-CCBC	Lead-208	0.00200	0.0513	0.100	ug/L	
SLD0387-IBLB	Chromium-52	0.148	0.26	0.500	ug/L	
SLD0387-IBLB	Chromium-53	0.570	0.239	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0387

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00073
Date Analyzed: 04/27/23 02:32

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0387-IBLB	Lead-208	0.00200	0.0513	0.100	ug/L	
SLD0387-IBLC	Chromium-52	0.100	0.26	0.500	ug/L	
SLD0387-IBLC	Chromium-53	0.603	0.239	0.500	ug/L	
SLD0387-IBLC	Lead-208	0.00200	0.0513	0.100	ug/L	
SLD0387-CCBD	Chromium-52	0.0750	0.26	0.500	ug/L	
SLD0387-CCBD	Chromium-53	0.206	0.239	0.500	ug/L	
SLD0387-CCBD	Lead-208	0.00200	0.0513	0.100	ug/L	
SLD0387-CCBE	Chromium-52	-0.0110	0.26	0.500	ug/L	
SLD0387-CCBE	Chromium-53	-0.0720	0.239	0.500	ug/L	
SLD0387-CCBE	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0387-IBLD	Chromium-52	0.0690	0.26	0.500	ug/L	
SLD0387-IBLD	Chromium-53	-0.0970	0.239	0.500	ug/L	
SLD0387-IBLD	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0387-IBLE	Chromium-52	0.0350	0.26	0.500	ug/L	
SLD0387-IBLE	Chromium-53	-0.0790	0.239	0.500	ug/L	
SLD0387-IBLE	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0387-CCBF	Chromium-52	-0.00700	0.26	0.500	ug/L	
SLD0387-CCBF	Chromium-53	-0.122	0.239	0.500	ug/L	
SLD0387-CCBF	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0387-IBLF	Chromium-52	0.0460	0.26	0.500	ug/L	
SLD0387-IBLF	Chromium-53	-0.0690	0.239	0.500	ug/L	
SLD0387-IBLF	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0387-IBLG	Chromium-52	0.0460	0.26	0.500	ug/L	
SLD0387-IBLG	Chromium-53	-0.0960	0.239	0.500	ug/L	
SLD0387-IBLG	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0387-CCBG	Chromium-52	0.0150	0.26	0.500	ug/L	
SLD0387-CCBG	Chromium-53	-0.134	0.239	0.500	ug/L	
SLD0387-CCBG	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0387-IBLH	Chromium-52	0.0300	0.26	0.500	ug/L	
SLD0387-IBLH	Chromium-53	0.0230	0.239	0.500	ug/L	
SLD0387-IBLH	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0387-IBLI	Chromium-52	-0.00400	0.26	0.500	ug/L	
SLD0387-IBLI	Chromium-53	0.0210	0.239	0.500	ug/L	
SLD0387-IBLI	Lead-208	0.00100	0.0513	0.100	ug/L	
SLD0387-CCBH	Chromium-52	-0.0310	0.26	0.500	ug/L	
SLD0387-CCBH	Chromium-53	-0.142	0.239	0.500	ug/L	

Analytical Resources, LLC
Analytical Chemists and Consultants

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0387

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00073
Date Analyzed: 04/27/23 06:33

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0387-CCBH	Lead-208	0.00	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0418

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00078
Date Analyzed: 04/27/23 17:32

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0418-IBL1	Chromium-52	-0.00700	0.26	0.500	ug/L	
SLD0418-IBL1	Chromium-53	-0.0160	0.239	0.500	ug/L	
SLD0418-IBL1	Lead-208	0.00100	0.0513	0.100	ug/L	
SLD0418-IBL1	Silver-107	0.00400	0.022	0.200	ug/L	
SLD0418-ICB1	Chromium-52	-0.0100	0.26	0.500	ug/L	
SLD0418-ICB1	Chromium-53	-0.0160	0.239	0.500	ug/L	
SLD0418-ICB1	Lead-208	0.00100	0.0513	0.100	ug/L	
SLD0418-ICB1	Silver-107	0.00200	0.022	0.200	ug/L	
SLD0418-CCB1	Chromium-52	0.0100	0.26	0.500	ug/L	
SLD0418-CCB1	Chromium-53	-0.0190	0.239	0.500	ug/L	
SLD0418-CCB1	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0418-CCB1	Silver-107	0.00200	0.022	0.200	ug/L	
SLD0418-CCB2	Chromium-52	-0.0400	0.26	0.500	ug/L	
SLD0418-CCB2	Chromium-53	-0.00200	0.239	0.500	ug/L	
SLD0418-CCB2	Lead-208	0.00100	0.0513	0.100	ug/L	
SLD0418-CCB2	Silver-107	0.00200	0.022	0.200	ug/L	
SLD0418-IBL2	Chromium-52	-0.0610	0.26	0.500	ug/L	
SLD0418-IBL2	Chromium-53	0.0700	0.239	0.500	ug/L	
SLD0418-IBL2	Lead-208	0.00600	0.0513	0.100	ug/L	
SLD0418-IBL2	Silver-107	0.00700	0.022	0.200	ug/L	
SLD0418-IBL3	Chromium-52	-0.0820	0.26	0.500	ug/L	
SLD0418-IBL3	Chromium-53	0.301	0.239	0.500	ug/L	
SLD0418-IBL3	Lead-208	0.00300	0.0513	0.100	ug/L	
SLD0418-IBL3	Silver-107	0.00200	0.022	0.200	ug/L	
SLD0418-CCB3	Chromium-52	-0.109	0.26	0.500	ug/L	
SLD0418-CCB3	Chromium-53	0.0830	0.239	0.500	ug/L	
SLD0418-CCB3	Lead-208	0.00100	0.0513	0.100	ug/L	
SLD0418-CCB3	Silver-107	0.00200	0.022	0.200	ug/L	
SLD0418-IBL4	Chromium-52	-0.0520	0.26	0.500	ug/L	
SLD0418-IBL4	Chromium-53	0.388	0.239	0.500	ug/L	
SLD0418-IBL4	Lead-208	0.0230	0.0513	0.100	ug/L	
SLD0418-IBL4	Silver-107	0.00100	0.022	0.200	ug/L	
SLD0418-CCB4	Chromium-52	-0.0910	0.26	0.500	ug/L	
SLD0418-CCB4	Chromium-53	0.0830	0.239	0.500	ug/L	
SLD0418-CCB4	Lead-208	0.00100	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0418

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00078
Date Analyzed: 04/27/23 20:54

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0418-CCB4	Silver-107	0.00200	0.022	0.200	ug/L	
SLD0418-IBL5	Chromium-52	-0.127	0.26	0.500	ug/L	
SLD0418-IBL5	Chromium-53	0.0680	0.239	0.500	ug/L	
SLD0418-IBL5	Lead-208	0.0230	0.0513	0.100	ug/L	
SLD0418-IBL5	Silver-107	0.00100	0.022	0.200	ug/L	
SLD0418-CCB5	Chromium-52	-0.110	0.26	0.500	ug/L	
SLD0418-CCB5	Chromium-53	0.0150	0.239	0.500	ug/L	
SLD0418-CCB5	Lead-208	0.00200	0.0513	0.100	ug/L	
SLD0418-CCB5	Silver-107	0.00100	0.022	0.200	ug/L	
SLD0418-CCB6	Chromium-52	0.00200	0.26	0.500	ug/L	
SLD0418-CCB6	Chromium-53	-0.00400	0.239	0.500	ug/L	
SLD0418-CCB6	Lead-208	0.0120	0.0513	0.100	ug/L	
SLD0418-CCB6	Silver-107	0.0200	0.022	0.200	ug/L	
SLD0418-IBL7	Chromium-52	0.0190	0.26	0.500	ug/L	
SLD0418-IBL7	Chromium-53	0.0100	0.239	0.500	ug/L	
SLD0418-IBL7	Lead-208	0.0420	0.0513	0.100	ug/L	
SLD0418-IBL7	Silver-107	0.0260	0.022	0.200	ug/L	
SLD0418-CCB7	Chromium-52	0.0190	0.26	0.500	ug/L	
SLD0418-CCB7	Chromium-53	-0.0150	0.239	0.500	ug/L	
SLD0418-CCB7	Lead-208	0.00500	0.0513	0.100	ug/L	
SLD0418-CCB7	Silver-107	0.0130	0.022	0.200	ug/L	
SLD0418-IBL8	Chromium-52	-0.0260	0.26	0.500	ug/L	
SLD0418-IBL8	Chromium-53	-0.0310	0.239	0.500	ug/L	
SLD0418-IBL8	Lead-208	0.00400	0.0513	0.100	ug/L	
SLD0418-IBL8	Silver-107	-0.00300	0.022	0.200	ug/L	
SLD0418-CCB8	Chromium-52	0.0180	0.26	0.500	ug/L	
SLD0418-CCB8	Chromium-53	-0.0330	0.239	0.500	ug/L	
SLD0418-CCB8	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLD0418-CCB8	Silver-107	0.00500	0.022	0.200	ug/L	
SLD0418-IBL9	Chromium-52	0.00200	0.26	0.500	ug/L	
SLD0418-IBL9	Chromium-53	-0.0400	0.239	0.500	ug/L	
SLD0418-IBL9	Lead-208	0.00600	0.0513	0.100	ug/L	
SLD0418-IBL9	Silver-107	0.00400	0.022	0.200	ug/L	
SLD0418-CCB9	Chromium-52	0.00400	0.26	0.500	ug/L	
SLD0418-CCB9	Chromium-53	-0.0380	0.239	0.500	ug/L	
SLD0418-CCB9	Lead-208	-0.00100	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0418

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00078
Date Analyzed: 04/28/23 01:10

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0418-CCB9	Silver-107	0.00700	0.022	0.200	ug/L	
SLD0418-IBLA	Chromium-52	-0.0450	0.26	0.500	ug/L	
SLD0418-IBLA	Chromium-53	-0.0370	0.239	0.500	ug/L	
SLD0418-IBLA	Lead-208	0.00500	0.0513	0.100	ug/L	
SLD0418-IBLA	Silver-107	-0.00300	0.022	0.200	ug/L	
SLD0418-CCBA	Chromium-52	0.0160	0.26	0.500	ug/L	
SLD0418-CCBA	Chromium-53	-0.0460	0.239	0.500	ug/L	
SLD0418-CCBA	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLD0418-CCBA	Silver-107	0.00500	0.022	0.200	ug/L	
SLD0418-IBLB	Chromium-52	0.00600	0.26	0.500	ug/L	
SLD0418-IBLB	Chromium-53	-0.0410	0.239	0.500	ug/L	
SLD0418-IBLB	Lead-208	0.00500	0.0513	0.100	ug/L	
SLD0418-IBLB	Silver-107	-0.00300	0.022	0.200	ug/L	
SLD0418-CCBB	Chromium-52	0.00600	0.26	0.500	ug/L	
SLD0418-CCBB	Chromium-53	-0.0470	0.239	0.500	ug/L	
SLD0418-CCBB	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLD0418-CCBB	Silver-107	0.00500	0.022	0.200	ug/L	
SLD0418-CCBC	Chromium-52	-0.0140	0.26	0.500	ug/L	
SLD0418-CCBC	Chromium-53	-0.00700	0.239	0.500	ug/L	
SLD0418-CCBC	Lead-208	0.00100	0.0513	0.100	ug/L	
SLD0418-CCBC	Silver-107	0.00600	0.022	0.200	ug/L	
SLD0418-IBLD	Chromium-52	-0.0310	0.26	0.500	ug/L	
SLD0418-IBLD	Chromium-53	0.00800	0.239	0.500	ug/L	
SLD0418-IBLD	Lead-208	0.0110	0.0513	0.100	ug/L	
SLD0418-IBLD	Silver-107	-0.00200	0.022	0.200	ug/L	
SLD0418-CCBD	Chromium-52	-0.0290	0.26	0.500	ug/L	
SLD0418-CCBD	Chromium-53	-0.00500	0.239	0.500	ug/L	
SLD0418-CCBD	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLD0418-CCBD	Silver-107	0.00400	0.022	0.200	ug/L	
SLD0418-IBLE	Chromium-52	-0.0320	0.26	0.500	ug/L	
SLD0418-IBLE	Chromium-53	0.0190	0.239	0.500	ug/L	
SLD0418-IBLE	Lead-208	0.00600	0.0513	0.100	ug/L	
SLD0418-IBLE	Silver-107	0.00300	0.022	0.200	ug/L	
SLD0418-CCBE	Chromium-52	-0.0250	0.26	0.500	ug/L	
SLD0418-CCBE	Chromium-53	0.00400	0.239	0.500	ug/L	
SLD0418-CCBE	Lead-208	-0.00100	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0418

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00078
Date Analyzed: 04/28/23 05:10

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0418-CCBE	Silver-107	0.00600	0.022	0.200	ug/L	
SLD0418-IBLF	Chromium-52	0.0250	0.26	0.500	ug/L	
SLD0418-IBLF	Chromium-53	0.531	0.239	0.500	ug/L	
SLD0418-IBLF	Lead-208	0.00600	0.0513	0.100	ug/L	
SLD0418-IBLF	Silver-107	-0.00300	0.022	0.200	ug/L	
SLD0418-CCBF	Chromium-52	-0.0290	0.26	0.500	ug/L	
SLD0418-CCBF	Chromium-53	0.136	0.239	0.500	ug/L	
SLD0418-CCBF	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLD0418-CCBF	Silver-107	0.00400	0.022	0.200	ug/L	
SLD0418-IBLG	Chromium-52	-0.0130	0.26	0.500	ug/L	
SLD0418-IBLG	Chromium-53	0.224	0.239	0.500	ug/L	
SLD0418-IBLG	Lead-208	0.00100	0.0513	0.100	ug/L	
SLD0418-IBLG	Silver-107	-0.00300	0.022	0.200	ug/L	
SLD0418-CCBG	Chromium-52	-0.0160	0.26	0.500	ug/L	
SLD0418-CCBG	Chromium-53	0.105	0.239	0.500	ug/L	
SLD0418-CCBG	Lead-208	0.00800	0.0513	0.100	ug/L	
SLD0418-CCBG	Silver-107	0.0130	0.022	0.200	ug/L	
SLD0418-CCBH	Chromium-52	0.0180	0.26	0.500	ug/L	
SLD0418-CCBH	Chromium-53	-0.0260	0.239	0.500	ug/L	
SLD0418-CCBH	Lead-208	-0.00400	0.0513	0.100	ug/L	
SLD0418-CCBH	Silver-107	0.00500	0.022	0.200	ug/L	
SLD0418-IBLI	Chromium-52	0.0380	0.26	0.500	ug/L	
SLD0418-IBLI	Chromium-53	0.00600	0.239	0.500	ug/L	
SLD0418-IBLI	Lead-208	0.00100	0.0513	0.100	ug/L	
SLD0418-IBLI	Silver-107	0.00300	0.022	0.200	ug/L	
SLD0418-CCBI	Chromium-52	0.0290	0.26	0.500	ug/L	
SLD0418-CCBI	Chromium-53	-0.0140	0.239	0.500	ug/L	
SLD0418-CCBI	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0418-CCBI	Silver-107	0.00900	0.022	0.200	ug/L	
SLD0418-IBLJ	Chromium-52	0.0330	0.26	0.500	ug/L	
SLD0418-IBLJ	Chromium-53	0.0570	0.239	0.500	ug/L	
SLD0418-IBLJ	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0418-IBLJ	Silver-107	0.00	0.022	0.200	ug/L	
SLD0418-CCBJ	Chromium-52	-0.00800	0.26	0.500	ug/L	
SLD0418-CCBJ	Chromium-53	-0.0280	0.239	0.500	ug/L	
SLD0418-CCBJ	Lead-208	-0.00300	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0418

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00078
Date Analyzed: 04/28/23 09:13

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0418-CCBJ	Silver-107	0.00500	0.022	0.200	ug/L	
SLD0418-IBLK	Chromium-52	0.0440	0.26	0.500	ug/L	
SLD0418-IBLK	Chromium-53	0.214	0.239	0.500	ug/L	
SLD0418-IBLK	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0418-IBLK	Silver-107	0.00	0.022	0.200	ug/L	
SLD0418-CCBK	Chromium-52	-0.00600	0.26	0.500	ug/L	
SLD0418-CCBK	Chromium-53	0.0630	0.239	0.500	ug/L	
SLD0418-CCBK	Lead-208	-0.00300	0.0513	0.100	ug/L	
SLD0418-CCBK	Silver-107	0.00500	0.022	0.200	ug/L	
SLD0418-IBLL	Chromium-52	-0.00100	0.26	0.500	ug/L	
SLD0418-IBLL	Chromium-53	0.238	0.239	0.500	ug/L	
SLD0418-IBLL	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0418-IBLL	Silver-107	-0.00500	0.022	0.200	ug/L	
SLD0418-CCBL	Chromium-52	-0.0140	0.26	0.500	ug/L	
SLD0418-CCBL	Chromium-53	0.0740	0.239	0.500	ug/L	
SLD0418-CCBL	Lead-208	-0.00300	0.0513	0.100	ug/L	
SLD0418-CCBL	Silver-107	0.00500	0.022	0.200	ug/L	
SLD0418-IBLM	Chromium-52	-0.0570	0.26	0.500	ug/L	
SLD0418-IBLM	Chromium-53	0.185	0.239	0.500	ug/L	
SLD0418-IBLM	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0418-IBLM	Silver-107	-0.00500	0.022	0.200	ug/L	
SLD0418-IBLN	Chromium-52	-0.0680	0.26	0.500	ug/L	
SLD0418-IBLN	Chromium-53	-0.0120	0.239	0.500	ug/L	
SLD0418-IBLN	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0418-IBLN	Silver-107	-0.00500	0.022	0.200	ug/L	
SLD0418-IBLO	Chromium-52	-0.0590	0.26	0.500	ug/L	
SLD0418-IBLO	Chromium-53	-0.0220	0.239	0.500	ug/L	
SLD0418-IBLO	Lead-208	0.00	0.0513	0.100	ug/L	
SLD0418-IBLO	Silver-107	-0.00500	0.022	0.200	ug/L	
SLD0418-CCBM	Chromium-52	-0.0500	0.26	0.500	ug/L	
SLD0418-CCBM	Chromium-53	-0.0330	0.239	0.500	ug/L	
SLD0418-CCBM	Lead-208	-0.00200	0.0513	0.100	ug/L	
SLD0418-CCBM	Silver-107	0.00400	0.022	0.200	ug/L	
SLD0418-CCBN	Chromium-52	0.00400	0.26	0.500	ug/L	
SLD0418-CCBN	Chromium-53	-0.00900	0.239	0.500	ug/L	
SLD0418-CCBO	Chromium-52	0.0170	0.26	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0418

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00078
Date Analyzed: 04/28/23 12:44

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0418-CCBO	Chromium-53	0.0130	0.239	0.500	ug/L	
SLD0418-CCBP	Chromium-52	0.00700	0.26	0.500	ug/L	
SLD0418-CCBP	Chromium-53	-0.0170	0.239	0.500	ug/L	
SLD0418-CCBQ	Chromium-52	0.0190	0.26	0.500	ug/L	
SLD0418-CCBQ	Chromium-53	-0.0100	0.239	0.500	ug/L	
SLD0418-CCBR	Chromium-52	0.0190	0.26	0.500	ug/L	
SLD0418-CCBR	Chromium-53	-0.0160	0.239	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0043

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GE00013
Date Analyzed: 05/02/23 14:19

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0043-IBL1	Chromium-52	0.00100	0.26	0.500	ug/L	
SLE0043-IBL1	Chromium-53	-0.00500	0.239	0.500	ug/L	
SLE0043-IBL1	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0043-IBL1	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0043-ICB1	Chromium-52	0.0110	0.26	0.500	ug/L	
SLE0043-ICB1	Chromium-53	-0.00900	0.239	0.500	ug/L	
SLE0043-ICB1	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0043-ICB1	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0043-CCB1	Chromium-52	0.00500	0.26	0.500	ug/L	
SLE0043-CCB1	Chromium-53	-0.0100	0.239	0.500	ug/L	
SLE0043-CCB1	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0043-CCB1	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0043-IBL2	Chromium-52	0.100	0.26	0.500	ug/L	
SLE0043-IBL2	Chromium-53	0.131	0.239	0.500	ug/L	
SLE0043-IBL2	Lead-208	0.113	0.0513	0.100	ug/L	
SLE0043-IBL2	Silver-107	0.113	0.022	0.200	ug/L	
SLE0043-IBL3	Chromium-52	-0.0110	0.26	0.500	ug/L	
SLE0043-IBL3	Chromium-53	0.0160	0.239	0.500	ug/L	
SLE0043-IBL3	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0043-IBL3	Silver-107	0.00400	0.022	0.200	ug/L	
SLE0043-CCB2	Chromium-52	-0.0100	0.26	0.500	ug/L	
SLE0043-CCB2	Chromium-53	0.00400	0.239	0.500	ug/L	
SLE0043-CCB2	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0043-CCB2	Silver-107	0.00600	0.022	0.200	ug/L	
SLE0043-IBL4	Chromium-52	-0.00800	0.26	0.500	ug/L	
SLE0043-IBL4	Chromium-53	0.0820	0.239	0.500	ug/L	
SLE0043-IBL4	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0043-IBL4	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0043-CCB3	Chromium-52	-0.0160	0.26	0.500	ug/L	
SLE0043-CCB3	Chromium-53	0.0180	0.239	0.500	ug/L	
SLE0043-CCB3	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0043-CCB3	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0043-CCB4	Chromium-52	0.00	0.26	0.500	ug/L	
SLE0043-CCB4	Chromium-53	-0.00600	0.239	0.500	ug/L	
SLE0043-CCB4	Lead-208	0.00100	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0043

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GE00013
Date Analyzed: 05/02/23 17:18

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0043-CCB4	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0043-CCB5	Chromium-52	0.00800	0.26	0.500	ug/L	
SLE0043-CCB5	Chromium-53	-0.0150	0.239	0.500	ug/L	
SLE0043-CCB5	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0043-CCB5	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0043-CCB6	Chromium-52	-0.0140	0.26	0.500	ug/L	
SLE0043-CCB6	Chromium-53	-0.0230	0.239	0.500	ug/L	
SLE0043-CCB6	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0043-CCB6	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0043-CCB7	Chromium-52	0.00700	0.26	0.500	ug/L	
SLE0043-CCB7	Chromium-53	-0.0190	0.239	0.500	ug/L	
SLE0043-CCB7	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0043-CCB7	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0043-CCB8	Chromium-52	-0.0210	0.26	0.500	ug/L	
SLE0043-CCB8	Chromium-53	-0.0250	0.239	0.500	ug/L	
SLE0043-CCB8	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0043-CCB8	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0043-CCB9	Chromium-52	-0.0130	0.26	0.500	ug/L	
SLE0043-CCB9	Chromium-53	-0.0280	0.239	0.500	ug/L	
SLE0043-CCB9	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0043-CCB9	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0043-CCBA	Chromium-52	-0.0110	0.26	0.500	ug/L	
SLE0043-CCBA	Chromium-53	0.00400	0.239	0.500	ug/L	
SLE0043-CCBA	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0043-CCBA	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0043-IBL5	Chromium-52	-0.0200	0.26	0.500	ug/L	
SLE0043-IBL5	Chromium-53	-0.0110	0.239	0.500	ug/L	
SLE0043-IBL5	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0043-IBL5	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0043-CCBB	Chromium-52	-0.0310	0.26	0.500	ug/L	
SLE0043-CCBB	Chromium-53	-0.00700	0.239	0.500	ug/L	
SLE0043-CCBB	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0043-CCBB	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0043-IBL6	Chromium-52	0.0350	0.26	0.500	ug/L	
SLE0043-IBL6	Chromium-53	0.0120	0.239	0.500	ug/L	
SLE0043-IBL6	Lead-208	0.00200	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0043

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GE00013
Date Analyzed: 05/02/23 23:43

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0043-IBL6	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0043-IBL7	Chromium-52	-0.0210	0.26	0.500	ug/L	
SLE0043-IBL7	Chromium-53	0.0290	0.239	0.500	ug/L	
SLE0043-IBL7	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0043-IBL7	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0043-CCBC	Chromium-52	-0.0450	0.26	0.500	ug/L	
SLE0043-CCBC	Chromium-53	0.0110	0.239	0.500	ug/L	
SLE0043-CCBC	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0043-CCBC	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0043-IBL8	Chromium-52	-0.0430	0.26	0.500	ug/L	
SLE0043-IBL8	Chromium-53	0.0200	0.239	0.500	ug/L	
SLE0043-IBL8	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0043-IBL8	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0043-CCBD	Chromium-52	-0.0360	0.26	0.500	ug/L	
SLE0043-CCBD	Chromium-53	0.00900	0.239	0.500	ug/L	
SLE0043-CCBD	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0043-CCBD	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0043-IBL9	Chromium-52	-0.00100	0.26	0.500	ug/L	
SLE0043-IBL9	Chromium-53	0.325	0.239	0.500	ug/L	
SLE0043-IBL9	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0043-IBL9	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0043-CCBE	Chromium-52	-0.0380	0.26	0.500	ug/L	
SLE0043-CCBE	Chromium-53	0.133	0.239	0.500	ug/L	
SLE0043-CCBE	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0043-CCBE	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0043-CCBF	Chromium-52	0.00400	0.26	0.500	ug/L	
SLE0043-CCBF	Chromium-53	-0.0270	0.239	0.500	ug/L	
SLE0043-CCBF	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0043-CCBF	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0043-IBLA	Chromium-52	-0.00700	0.26	0.500	ug/L	
SLE0043-IBLA	Chromium-53	0.0290	0.239	0.500	ug/L	
SLE0043-IBLA	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0043-IBLA	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0043-CCBG	Chromium-52	0.0110	0.26	0.500	ug/L	
SLE0043-CCBG	Chromium-53	-0.0490	0.239	0.500	ug/L	
SLE0043-CCBG	Lead-208	0.00	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0043

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GE00013
Date Analyzed: 05/03/23 03:06

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0043-CCBG	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0043-IBLB	Chromium-52	0.00100	0.26	0.500	ug/L	
SLE0043-IBLB	Chromium-53	-0.0220	0.239	0.500	ug/L	
SLE0043-IBLB	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0043-IBLB	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0043-CCBH	Chromium-52	-0.0180	0.26	0.500	ug/L	
SLE0043-CCBH	Chromium-53	-0.0670	0.239	0.500	ug/L	
SLE0043-CCBH	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0043-CCBH	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0043-IBLC	Chromium-52	-0.00800	0.26	0.500	ug/L	
SLE0043-IBLC	Chromium-53	-0.0600	0.239	0.500	ug/L	
SLE0043-IBLC	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0043-IBLC	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0043-CCBI	Chromium-52	-0.0150	0.26	0.500	ug/L	
SLE0043-CCBI	Chromium-53	-0.0950	0.239	0.500	ug/L	
SLE0043-CCBI	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0043-CCBI	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0043-IBLD	Chromium-52	0.0780	0.26	0.500	ug/L	
SLE0043-IBLD	Chromium-53	0.0800	0.239	0.500	ug/L	
SLE0043-IBLD	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0043-IBLD	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0043-CCBJ	Chromium-52	-0.00300	0.26	0.500	ug/L	
SLE0043-CCBJ	Chromium-53	-0.0520	0.239	0.500	ug/L	
SLE0043-CCBJ	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0043-CCBJ	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0043-IBLE	Chromium-52	0.0270	0.26	0.500	ug/L	
SLE0043-IBLE	Chromium-53	0.266	0.239	0.500	ug/L	
SLE0043-IBLE	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0043-IBLE	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0043-CCBK	Chromium-52	0.0510	0.26	0.500	ug/L	
SLE0043-CCBK	Chromium-53	0.0500	0.239	0.500	ug/L	
SLE0043-CCBK	Lead-208	0.0320	0.0513	0.100	ug/L	
SLE0043-CCBK	Silver-107	0.0250	0.022	0.200	ug/L	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0370
Instrument: ICPMS1
Calibration: GD00066

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLD0370-CAL1	XDT_m1230425-021	NA	04/25/23 17:12
CAL 1 - LOW CHECK	SLD0370-CAL2	XDT_m1230425-022	NA	04/25/23 17:17
CAL 2	SLD0370-CAL3	XDT_m1230425-023	NA	04/25/23 17:22
CAL 3	SLD0370-CAL4	XDT_m1230425-024	NA	04/25/23 17:27
CAL 4	SLD0370-CAL5	XDT_m1230425-025	NA	04/25/23 17:33
CAL 5	SLD0370-CAL6	XDT_m1230425-026	NA	04/25/23 17:40
RINSE	SLD0370-IBL1	XDT_m1230425-027	NA	04/25/23 17:47
Initial Cal Check	SLD0370-ICV1	XDT_m1230425-030	NA	04/25/23 18:02
Initial Cal Blank	SLD0370-ICB1	XDT_m1230425-031	NA	04/25/23 18:09
Calibration Check	SLD0370-CCV1	XDT_m1230425-032	NA	04/25/23 18:15
Calibration Blank	SLD0370-CCB1	XDT_m1230425-033	NA	04/25/23 18:22
Instrument RL Check	SLD0370-CRL1	XDT_m1230425-034	NA	04/25/23 18:27
Interference Check A	SLD0370-IFA1	XDT_m1230425-035	NA	04/25/23 18:33
Interference Check B	SLD0370-IFB1	XDT_m1230425-036	NA	04/25/23 18:38
LR200	SLD0370-HCV1	XDT_m1230425-037	NA	04/25/23 18:43
LR300	SLD0370-HCV2	XDT_m1230425-038	NA	04/25/23 18:48
Instrument Blank	SLD0370-IBL2	XDT_m1230425-039	NA	04/25/23 18:56
Instrument Blank	SLD0370-IBL3	XDT_m1230425-040	NA	04/25/23 19:03
Calibration Check	SLD0370-CCV2	XDT_m1230425-041	NA	04/25/23 19:09
Calibration Blank	SLD0370-CCB2	XDT_m1230425-042	NA	04/25/23 19:18
Instrument Blank	SLD0370-IBL4	XDT_m1230425-051	NA	04/25/23 20:06
Calibration Check	SLD0370-CCV3	XDT_m1230425-052	NA	04/25/23 20:11
Calibration Blank	SLD0370-CCB3	XDT_m1230425-053	NA	04/25/23 20:19
Instrument Blank	SLD0370-IBL5	XDT_m1230425-061	NA	04/25/23 21:08
Calibration Check	SLD0370-CCV4	XDT_m1230425-063	NA	04/25/23 21:24
Calibration Blank	SLD0370-CCB4	XDT_m1230425-064	NA	04/25/23 21:32
ZZZZZ	23D0165-01	XDT_m1230425-069	Water	04/25/23 22:08
Instrument Blank	SLD0370-IBL6	XDT_m1230425-074	NA	04/25/23 22:38
Calibration Check	SLD0370-CCV5	XDT_m1230425-075	NA	04/25/23 22:43

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLD0370

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GD00066

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SLD0370-CCB5	XDT_m1230425-076	NA	04/25/23 22:51
Calibration Check	SLD0370-CCV6	XDT_m1230425-078	NA	04/25/23 23:01
Calibration Blank	SLD0370-CCB6	XDT_m1230425-079	NA	04/25/23 23:09
Instrument Blank	SLD0370-IBL7	XDT_m1230425-089	NA	04/26/23 00:01
Calibration Check	SLD0370-CCV7	XDT_m1230425-090	NA	04/26/23 00:06
Calibration Blank	SLD0370-CCB7	XDT_m1230425-091	NA	04/26/23 00:14
ZZZZZ	23C0674-02	XDT_m1230425-092	Water	04/26/23 00:19
ZZZZZ	23C0674-01	XDT_m1230425-093	Water	04/26/23 00:24
Instrument Blank	SLD0370-IBL8	XDT_m1230425-100	NA	04/26/23 01:05
Instrument Blank	SLD0370-IBL9	XDT_m1230425-101	NA	04/26/23 01:10
Calibration Check	SLD0370-CCV8	XDT_m1230425-102	NA	04/26/23 01:15
Calibration Blank	SLD0370-CCB8	XDT_m1230425-103	NA	04/26/23 01:23
Instrument Blank	SLD0370-IBLA	XDT_m1230425-113	NA	04/26/23 02:13
Calibration Check	SLD0370-CCV9	XDT_m1230425-114	NA	04/26/23 02:18
Calibration Blank	SLD0370-CCB9	XDT_m1230425-115	NA	04/26/23 02:26
Calibration Check	SLD0370-CCVA	XDT_m1230425-117	NA	04/26/23 02:36
Calibration Blank	SLD0370-CCBA	XDT_m1230425-118	NA	04/26/23 02:44
Instrument Blank	SLD0370-IBLB	XDT_m1230425-122	NA	04/26/23 03:06
ZZZZZ	23A0328-02	XDT_m1230425-123	Solid	04/26/23 03:11
ZZZZZ	BLD0289-DUP2	XDT_m1230425-124	Solid	04/26/23 03:16
ZZZZZ	BLD0289-MS2	XDT_m1230425-125	Solid	04/26/23 03:21
ZZZZZ	BLD0289-MSD2	XDT_m1230425-126	Solid	04/26/23 03:26
ZZZZZ	BLD0289-PS2	XDT_m1230425-127	Solid	04/26/23 03:31
Instrument Blank	SLD0370-IBLC	XDT_m1230425-128	NA	04/26/23 03:37
Calibration Check	SLD0370-CCVB	XDT_m1230425-129	NA	04/26/23 03:42
Calibration Blank	SLD0370-CCBB	XDT_m1230425-130	NA	04/26/23 03:49
Instrument Blank	SLD0370-IBLD	XDT_m1230425-140	NA	04/26/23 04:42
Calibration Check	SLD0370-CCVC	XDT_m1230425-141	NA	04/26/23 04:47
Calibration Blank	SLD0370-CCBC	XDT_m1230425-142	NA	04/26/23 04:55

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLD0370

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GD00066

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23C0678-02	XDT_m1230425-143	Water	04/26/23 05:00
ZZZZZ	23C0678-02	XDT_m1230425-143	Water	04/26/23 05:00
ZZZZZ	23C0678-02	XDT_m1230425-143	Water	04/26/23 05:00
ZZZZZ	23C0678-02	XDT_m1230425-143	Water	04/26/23 05:00
ZZZZZ	23C0678-02	XDT_m1230425-143	Water	04/26/23 05:00
ZZZZZ	23C0678-02	XDT_m1230425-143	Water	04/26/23 05:00
ZZZZZ	23C0678-12	XDT_m1230425-144	Water	04/26/23 05:05
ZZZZZ	23C0678-12	XDT_m1230425-144	Water	04/26/23 05:05
ZZZZZ	23C0678-12	XDT_m1230425-144	Water	04/26/23 05:05
ZZZZZ	23C0678-12	XDT_m1230425-144	Water	04/26/23 05:05
ZZZZZ	23C0678-12	XDT_m1230425-144	Water	04/26/23 05:05
ZZZZZ	23C0678-12	XDT_m1230425-144	Water	04/26/23 05:05
ZZZZZ	23C0678-13	XDT_m1230425-145	Water	04/26/23 05:10
ZZZZZ	23C0678-13	XDT_m1230425-145	Water	04/26/23 05:10
ZZZZZ	23C0678-13	XDT_m1230425-145	Water	04/26/23 05:10
ZZZZZ	23C0678-13	XDT_m1230425-145	Water	04/26/23 05:10
ZZZZZ	23C0678-13	XDT_m1230425-145	Water	04/26/23 05:10
ZZZZZ	23C0678-13	XDT_m1230425-145	Water	04/26/23 05:10
ZZZZZ	23C0678-18	XDT_m1230425-146	Water	04/26/23 05:16
ZZZZZ	23C0678-18	XDT_m1230425-146	Water	04/26/23 05:16
ZZZZZ	23C0678-18	XDT_m1230425-146	Water	04/26/23 05:16
ZZZZZ	23C0678-18	XDT_m1230425-146	Water	04/26/23 05:16
ZZZZZ	23C0678-18	XDT_m1230425-146	Water	04/26/23 05:16
ZZZZZ	23C0678-18	XDT_m1230425-146	Water	04/26/23 05:16
Instrument Blank	SLD0370-IBLE	XDT_m1230425-147	NA	04/26/23 05:21
ZZZZZ	23C0678-01	XDT_m1230425-148	Water	04/26/23 05:27
ZZZZZ	23C0678-01	XDT_m1230425-148	Water	04/26/23 05:27
ZZZZZ	23C0678-01	XDT_m1230425-148	Water	04/26/23 05:27
ZZZZZ	23C0678-01	XDT_m1230425-148	Water	04/26/23 05:27

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0370
Instrument: ICPMS1
Calibration: GD00066

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23C0678-01	XDT_m1230425-148	Water	04/26/23 05:27
ZZZZZ	23C0678-01	XDT_m1230425-148	Water	04/26/23 05:27
ZZZZZ	23C0678-11	XDT_m1230425-149	Water	04/26/23 05:31
ZZZZZ	23C0678-11	XDT_m1230425-149	Water	04/26/23 05:31
ZZZZZ	23C0678-11	XDT_m1230425-149	Water	04/26/23 05:31
ZZZZZ	23C0678-11	XDT_m1230425-149	Water	04/26/23 05:31
ZZZZZ	23C0678-11	XDT_m1230425-149	Water	04/26/23 05:31
ZZZZZ	23C0678-11	XDT_m1230425-149	Water	04/26/23 05:31
ZZZZZ	23C0678-10	XDT_m1230425-150	Water	04/26/23 05:37
ZZZZZ	23C0678-10	XDT_m1230425-150	Water	04/26/23 05:37
ZZZZZ	23C0678-10	XDT_m1230425-150	Water	04/26/23 05:37
ZZZZZ	23C0678-10	XDT_m1230425-150	Water	04/26/23 05:37
ZZZZZ	23C0678-10	XDT_m1230425-150	Water	04/26/23 05:37
ZZZZZ	23C0678-10	XDT_m1230425-150	Water	04/26/23 05:37
ZZZZZ	23C0678-17	XDT_m1230425-151	Water	04/26/23 05:43
ZZZZZ	23C0678-17	XDT_m1230425-151	Water	04/26/23 05:43
ZZZZZ	23C0678-17	XDT_m1230425-151	Water	04/26/23 05:43
ZZZZZ	23C0678-17	XDT_m1230425-151	Water	04/26/23 05:43
ZZZZZ	23C0678-17	XDT_m1230425-151	Water	04/26/23 05:43
ZZZZZ	23C0678-17	XDT_m1230425-151	Water	04/26/23 05:43
Instrument Blank	SLD0370-IBLF	XDT_m1230425-152	NA	04/26/23 05:48
Calibration Check	SLD0370-CCVD	XDT_m1230425-153	NA	04/26/23 05:53
Calibration Blank	SLD0370-CCBD	XDT_m1230425-154	NA	04/26/23 06:01
ZZZZZ	23D0062-01	XDT_m1230425-157	Water	04/26/23 06:17
ZZZZZ	23D0062-01	XDT_m1230425-157	Water	04/26/23 06:17
ZZZZZ	23D0062-01	XDT_m1230425-157	Water	04/26/23 06:17
ZZZZZ	23D0062-01	XDT_m1230425-157	Water	04/26/23 06:17
ZZZZZ	23D0062-03	XDT_m1230425-158	Water	04/26/23 06:22
ZZZZZ	23D0062-03	XDT_m1230425-158	Water	04/26/23 06:22

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLD0370

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GD00066

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0062-03	XDT_m1230425-158	Water	04/26/23 06:22
ZZZZZ	23D0062-03	XDT_m1230425-158	Water	04/26/23 06:22
ZZZZZ	23D0062-05	XDT_m1230425-159	Water	04/26/23 06:27
ZZZZZ	23D0062-05	XDT_m1230425-159	Water	04/26/23 06:27
ZZZZZ	23D0062-05	XDT_m1230425-159	Water	04/26/23 06:27
ZZZZZ	23D0062-05	XDT_m1230425-159	Water	04/26/23 06:27
ZZZZZ	23D0062-07	XDT_m1230425-160	Water	04/26/23 06:32
ZZZZZ	23D0062-07	XDT_m1230425-160	Water	04/26/23 06:32
ZZZZZ	23D0062-07	XDT_m1230425-160	Water	04/26/23 06:32
ZZZZZ	23D0062-07	XDT_m1230425-160	Water	04/26/23 06:32
ZZZZZ	BLD0472-DUP1	XDT_m1230425-161	Water	04/26/23 06:37
ZZZZZ	BLD0472-MS1	XDT_m1230425-162	Water	04/26/23 06:42
ZZZZZ	BLD0472-MSD1	XDT_m1230425-163	Water	04/26/23 06:49
Instrument Blank	SLD0370-IBLG	XDT_m1230425-164	NA	04/26/23 06:54
Calibration Check	SLD0370-CCVE	XDT_m1230425-165	NA	04/26/23 06:59
Calibration Blank	SLD0370-CCBE	XDT_m1230425-166	NA	04/26/23 07:07
Calibration Check	SLD0370-CCVF	XDT_m1230425-168	NA	04/26/23 07:17
Calibration Blank	SLD0370-CCBF	XDT_m1230425-169	NA	04/26/23 07:25
ZZZZZ	23C0658-02	XDT_m1230425-170	Water	04/26/23 07:30
ZZZZZ	23C0658-02	XDT_m1230425-170	Water	04/26/23 07:30
ZZZZZ	23C0658-02	XDT_m1230425-170	Water	04/26/23 07:30
ZZZZZ	23C0658-02	XDT_m1230425-170	Water	04/26/23 07:30
ZZZZZ	23C0658-02	XDT_m1230425-170	Water	04/26/23 07:30
ZZZZZ	23C0658-04	XDT_m1230425-171	Water	04/26/23 07:35
ZZZZZ	23C0658-04	XDT_m1230425-171	Water	04/26/23 07:35
ZZZZZ	23C0658-04	XDT_m1230425-171	Water	04/26/23 07:35
Instrument Blank	SLD0370-IBLH	XDT_m1230425-179	NA	04/26/23 08:17
Calibration Check	SLD0370-CCVG	XDT_m1230425-180	NA	04/26/23 08:22
Calibration Blank	SLD0370-CCBG	XDT_m1230425-181	NA	04/26/23 08:30

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0370	Instrument:	ICPMS1
		Calibration:	GD00066

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Blank	BLD0365-BLK1	XDT_m1230425-182	Solid	04/26/23 08:35
LCS	BLD0365-BS1	XDT_m1230425-183	Solid	04/26/23 08:40
ZZZZZ	23C0658-06	XDT_m1230425-185	Water	04/26/23 08:50
ZZZZZ	23C0658-06	XDT_m1230425-185	Water	04/26/23 08:50
ZZZZZ	23C0658-06	XDT_m1230425-185	Water	04/26/23 08:50
ZZZZZ	23C0678-09	XDT_m1230425-186	Water	04/26/23 08:55
ZZZZZ	23C0678-09	XDT_m1230425-186	Water	04/26/23 08:55
ZZZZZ	23C0678-09	XDT_m1230425-186	Water	04/26/23 08:55
ZZZZZ	23C0678-09	XDT_m1230425-186	Water	04/26/23 08:55
ZZZZZ	23C0678-09	XDT_m1230425-186	Water	04/26/23 08:55
ZZZZZ	23C0678-08	XDT_m1230425-187	Water	04/26/23 09:00
ZZZZZ	23C0678-08	XDT_m1230425-187	Water	04/26/23 09:00
ZZZZZ	23C0678-08	XDT_m1230425-187	Water	04/26/23 09:00
ZZZZZ	23C0678-08	XDT_m1230425-187	Water	04/26/23 09:00
ZZZZZ	23C0678-08	XDT_m1230425-187	Water	04/26/23 09:00
ZZZZZ	23C0741-01	XDT_m1230425-189	Water	04/26/23 09:10
ZZZZZ	23C0741-01	XDT_m1230425-189	Water	04/26/23 09:10
ZZZZZ	23C0741-01	XDT_m1230425-189	Water	04/26/23 09:10
ZZZZZ	23C0741-01	XDT_m1230425-189	Water	04/26/23 09:10
ZZZZZ	23C0741-01	XDT_m1230425-189	Water	04/26/23 09:10
Instrument Blank	SLD0370-IBLI	XDT_m1230425-191	NA	04/26/23 09:20
Calibration Check	SLD0370-CCVH	XDT_m1230425-192	NA	04/26/23 09:25
Calibration Blank	SLD0370-CCBH	XDT_m1230425-193	NA	04/26/23 09:33
Instrument Blank	SLD0370-IBLJ	XDT_m1230425-203	NA	04/26/23 10:25
Calibration Check	SLD0370-CCVI	XDT_m1230425-204	NA	04/26/23 10:31
Calibration Blank	SLD0370-CCBI	XDT_m1230425-205	NA	04/26/23 10:38
Instrument Blank	SLD0370-IBLK	XDT_m1230425-214	NA	04/26/23 11:26
Calibration Check	SLD0370-CCVJ	XDT_m1230425-215	NA	04/26/23 11:31
Calibration Blank	SLD0370-CCBJ	XDT_m1230425-216	NA	04/26/23 11:38

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0387	Instrument:	ICPMS1
		Calibration:	GD00073

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLD0387-CAL1	XDT_m1230426-013	NA	04/26/23 15:14
CAL 1 - LOW CHECK	SLD0387-CAL2	XDT_m1230426-014	NA	04/26/23 15:19
CAL 2	SLD0387-CAL3	XDT_m1230426-015	NA	04/26/23 15:24
CAL 3	SLD0387-CAL4	XDT_m1230426-016	NA	04/26/23 15:29
CAL 4	SLD0387-CAL5	XDT_m1230426-017	NA	04/26/23 15:34
CAL 5	SLD0387-CAL6	XDT_m1230426-018	NA	04/26/23 15:41
RINSE	SLD0387-IBL1	XDT_m1230426-019	NA	04/26/23 15:49
Initial Cal Check	SLD0387-ICV1	XDT_m1230426-021	NA	04/26/23 15:55
Initial Cal Blank	SLD0387-ICB1	XDT_m1230426-022	NA	04/26/23 16:03
Calibration Check	SLD0387-CCV1	XDT_m1230426-023	NA	04/26/23 16:08
Calibration Blank	SLD0387-CCB1	XDT_m1230426-024	NA	04/26/23 16:15
Instrument Blank	SLD0387-IBL2	XDT_m1230426-031	NA	04/26/23 16:55
Calibration Check	SLD0387-CCV2	XDT_m1230426-032	NA	04/26/23 17:02
Calibration Blank	SLD0387-CCB2	XDT_m1230426-033	NA	04/26/23 17:10
Calibration Check	SLD0387-CCV3	XDT_m1230426-035	NA	04/26/23 17:23
Calibration Blank	SLD0387-CCB3	XDT_m1230426-036	NA	04/26/23 17:29
Instrument RL Check	SLD0387-CRL1	XDT_m1230426-037	NA	04/26/23 17:34
Interference Check A	SLD0387-IFA1	XDT_m1230426-038	NA	04/26/23 17:39
Interference Check B	SLD0387-IFB1	XDT_m1230426-039	NA	04/26/23 17:44
LR200	SLD0387-HCV1	XDT_m1230426-040	NA	04/26/23 17:49
LR300	SLD0387-HCV2	XDT_m1230426-041	NA	04/26/23 17:54
Instrument Blank	SLD0387-IBL3	XDT_m1230426-042	NA	04/26/23 18:01
Calibration Check	SLD0387-CCV4	XDT_m1230426-043	NA	04/26/23 18:07
Calibration Blank	SLD0387-CCB4	XDT_m1230426-044	NA	04/26/23 18:14
ZZZZZ	23C0435-02RE1	XDT_m1230426-049	Water	04/26/23 18:44
ZZZZZ	23C0435-06RE1	XDT_m1230426-050	Water	04/26/23 18:49
ZZZZZ	23C0435-07RE1	XDT_m1230426-051	Water	04/26/23 18:54
ZZZZZ	23C0453-01RE1	XDT_m1230426-052	Water	04/26/23 18:59
ZZZZZ	23C0453-02RE1	XDT_m1230426-053	Water	04/26/23 19:04

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLD0387

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GD00073

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Instrument Blank	SLD0387-IBL4	XDT_m1230426-054	NA	04/26/23 19:10
Calibration Check	SLD0387-CCV5	XDT_m1230426-055	NA	04/26/23 19:15
Calibration Blank	SLD0387-CCB5	XDT_m1230426-056	NA	04/26/23 19:23
Instrument Blank	SLD0387-IBL5	XDT_m1230426-066	NA	04/26/23 20:17
Calibration Check	SLD0387-CCV6	XDT_m1230426-067	NA	04/26/23 20:21
Calibration Blank	SLD0387-CCB6	XDT_m1230426-068	NA	04/26/23 20:29
Instrument Blank	SLD0387-IBL6	XDT_m1230426-077	NA	04/26/23 21:24
Calibration Check	SLD0387-CCV7	XDT_m1230426-078	NA	04/26/23 21:29
Calibration Blank	SLD0387-CCB7	XDT_m1230426-079	NA	04/26/23 21:37
Calibration Check	SLD0387-CCV8	XDT_m1230426-081	NA	04/26/23 21:49
Calibration Blank	SLD0387-CCB8	XDT_m1230426-082	NA	04/26/23 21:57
ZZZZZ	23D0062-01	XDT_m1230426-085	Water	04/26/23 22:15
ZZZZZ	23D0062-01	XDT_m1230426-085	Water	04/26/23 22:15
ZZZZZ	23D0062-03	XDT_m1230426-086	Water	04/26/23 22:20
ZZZZZ	23D0062-03	XDT_m1230426-086	Water	04/26/23 22:20
ZZZZZ	23D0062-05	XDT_m1230426-087	Water	04/26/23 22:24
ZZZZZ	23D0062-05	XDT_m1230426-087	Water	04/26/23 22:24
ZZZZZ	23D0062-07	XDT_m1230426-088	Water	04/26/23 22:29
ZZZZZ	23D0062-07	XDT_m1230426-088	Water	04/26/23 22:29
Instrument Blank	SLD0387-IBL7	XDT_m1230426-092	NA	04/26/23 22:50
Calibration Check	SLD0387-CCV9	XDT_m1230426-093	NA	04/26/23 22:55
Calibration Blank	SLD0387-CCB9	XDT_m1230426-094	NA	04/26/23 23:02
Instrument Blank	SLD0387-IBL8	XDT_m1230426-104	NA	04/26/23 23:51
Calibration Check	SLD0387-CCVA	XDT_m1230426-105	NA	04/26/23 23:56
Calibration Blank	SLD0387-CCBA	XDT_m1230426-106	NA	04/27/23 00:03
ZZZZZ	23C0658-06	XDT_m1230426-107	Water	04/27/23 00:08
Instrument Blank	SLD0387-IBL9	XDT_m1230426-116	NA	04/27/23 00:51
Calibration Check	SLD0387-CCVB	XDT_m1230426-117	NA	04/27/23 00:56
Calibration Blank	SLD0387-CCBB	XDT_m1230426-118	NA	04/27/23 01:03

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLD0387

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GD00073

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23C0648-02	XDT_m1230426-123	Water	04/27/23 01:28
ZZZZZ	23C0648-01	XDT_m1230426-124	Water	04/27/23 01:33
ZZZZZ	23D0208-01	XDT_m1230426-125	Water	04/27/23 01:38
Instrument Blank	SLD0387-IBLA	XDT_m1230426-128	NA	04/27/23 01:55
Calibration Check	SLD0387-CCVC	XDT_m1230426-129	NA	04/27/23 01:59
Calibration Blank	SLD0387-CCBC	XDT_m1230426-130	NA	04/27/23 02:07
ZZZZZ	23C0435-02	XDT_m1230426-131	Water	04/27/23 02:12
ZZZZZ	23C0435-06	XDT_m1230426-134	Water	04/27/23 02:28
Instrument Blank	SLD0387-IBLB	XDT_m1230426-135	NA	04/27/23 02:32
ZZZZZ	23C0435-07	XDT_m1230426-136	Water	04/27/23 02:37
ZZZZZ	23C0453-01	XDT_m1230426-137	Water	04/27/23 02:42
ZZZZZ	23C0453-02	XDT_m1230426-138	Water	04/27/23 02:47
Instrument Blank	SLD0387-IBLC	XDT_m1230426-140	NA	04/27/23 02:58
Calibration Check	SLD0387-CCVD	XDT_m1230426-141	NA	04/27/23 03:02
Calibration Blank	SLD0387-CCBD	XDT_m1230426-142	NA	04/27/23 03:10
Calibration Check	SLD0387-CCVE	XDT_m1230426-144	NA	04/27/23 03:19
Calibration Blank	SLD0387-CCBE	XDT_m1230426-145	NA	04/27/23 03:27
ZZZZZ	23C0584-14	XDT_m1230426-146	Water	04/27/23 03:32
ZZZZZ	23C0584-16	XDT_m1230426-147	Water	04/27/23 03:36
ZZZZZ	23C0584-18	XDT_m1230426-148	Water	04/27/23 03:41
ZZZZZ	23C0584-20	XDT_m1230426-149	Water	04/27/23 03:46
ZZZZZ	23C0584-15	XDT_m1230426-150	Water	04/27/23 03:51
Instrument Blank	SLD0387-IBLD	XDT_m1230426-151	NA	04/27/23 03:55
ZZZZZ	23C0453-04	XDT_m1230426-152	Water	04/27/23 04:00
ZZZZZ	23C0453-04	XDT_m1230426-152	Water	04/27/23 04:00
ZZZZZ	23C0435-08	XDT_m1230426-153	Water	04/27/23 04:05
ZZZZZ	23C0435-08	XDT_m1230426-153	Water	04/27/23 04:05
ZZZZZ	23C0435-03	XDT_m1230426-154	Water	04/27/23 04:11
Instrument Blank	SLD0387-IBLE	XDT_m1230426-155	NA	04/27/23 04:16

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLD0387

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GD00073

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Check	SLD0387-CCVF	XDT_m1230426-156	NA	04/27/23 04:21
Calibration Blank	SLD0387-CCBF	XDT_m1230426-157	NA	04/27/23 04:28
ZZZZZ	23C0584-17	XDT_m1230426-158	Water	04/27/23 04:33
ZZZZZ	23C0584-19	XDT_m1230426-159	Water	04/27/23 04:38
ZZZZZ	23C0584-01	XDT_m1230426-160	Water	04/27/23 04:43
ZZZZZ	23C0584-01	XDT_m1230426-160	Water	04/27/23 04:43
ZZZZZ	23C0584-01	XDT_m1230426-160	Water	04/27/23 04:43
ZZZZZ	23C0584-01	XDT_m1230426-160	Water	04/27/23 04:43
ZZZZZ	BLD0180-DUP1	XDT_m1230426-161	Water	04/27/23 04:48
ZZZZZ	BLD0180-MS1	XDT_m1230426-162	Water	04/27/23 04:53
Instrument Blank	SLD0387-IBLF	XDT_m1230426-163	NA	04/27/23 04:58
ZZZZZ	23C0584-02	XDT_m1230426-164	Water	04/27/23 05:02
ZZZZZ	23C0584-02	XDT_m1230426-164	Water	04/27/23 05:02
ZZZZZ	23C0584-02	XDT_m1230426-164	Water	04/27/23 05:02
ZZZZZ	23C0584-02	XDT_m1230426-164	Water	04/27/23 05:02
ZZZZZ	23C0584-02	XDT_m1230426-164	Water	04/27/23 05:02
Instrument Blank	SLD0387-IBLG	XDT_m1230426-167	NA	04/27/23 05:17
Calibration Check	SLD0387-CCVG	XDT_m1230426-168	NA	04/27/23 05:22
Calibration Blank	SLD0387-CCBG	XDT_m1230426-169	NA	04/27/23 05:29
Instrument Blank	SLD0387-IBLH	XDT_m1230426-174	NA	04/27/23 05:55
Instrument Blank	SLD0387-IBLI	XDT_m1230426-179	NA	04/27/23 06:20
Calibration Check	SLD0387-CCVH	XDT_m1230426-180	NA	04/27/23 06:25
Calibration Blank	SLD0387-CCBH	XDT_m1230426-181	NA	04/27/23 06:33

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0418	Instrument:	ICPMS1
		Calibration:	GD00078

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLD0418-CAL1	XDT_m1230427A-003	NA	04/27/23 16:58
CAL 1 - LOW CHECK	SLD0418-CAL2	XDT_m1230427A-004	NA	04/27/23 17:02
CAL 2	SLD0418-CAL3	XDT_m1230427A-005	NA	04/27/23 17:07
CAL 3	SLD0418-CAL4	XDT_m1230427A-006	NA	04/27/23 17:13
CAL 4	SLD0418-CAL5	XDT_m1230427A-007	NA	04/27/23 17:18
CAL 5	SLD0418-CAL6	XDT_m1230427A-008	NA	04/27/23 17:25
RINSE	SLD0418-IBL1	XDT_m1230427A-009	NA	04/27/23 17:32
Initial Cal Check	SLD0418-ICV1	XDT_m1230427A-012	NA	04/27/23 17:46
Initial Cal Blank	SLD0418-ICB1	XDT_m1230427A-013	NA	04/27/23 17:54
Calibration Check	SLD0418-CCV1	XDT_m1230427A-014	NA	04/27/23 18:00
Calibration Blank	SLD0418-CCB1	XDT_m1230427A-015	NA	04/27/23 18:07
Calibration Check	SLD0418-CCV2	XDT_m1230427A-020	NA	04/27/23 18:37
Calibration Blank	SLD0418-CCB2	XDT_m1230427A-021	NA	04/27/23 18:45
Instrument RL Check	SLD0418-CRL1	XDT_m1230427A-022	NA	04/27/23 18:51
Interference Check B	SLD0418-IFB1	XDT_m1230427A-024	NA	04/27/23 19:01
LR200	SLD0418-HCV1	XDT_m1230427A-025	NA	04/27/23 19:06
LR300	SLD0418-HCV2	XDT_m1230427A-026	NA	04/27/23 19:11
Instrument Blank	SLD0418-IBL2	XDT_m1230427A-027	NA	04/27/23 19:18
Interference Check A	SLD0418-IFA1	XDT_m1230427A-028	NA	04/27/23 19:25
Instrument Blank	SLD0418-IBL3	XDT_m1230427A-029	NA	04/27/23 19:30
Calibration Check	SLD0418-CCV3	XDT_m1230427A-030	NA	04/27/23 19:36
Calibration Blank	SLD0418-CCB3	XDT_m1230427A-031	NA	04/27/23 19:46
ZZZZZ	23C0658-02	XDT_m1230427A-038	Water	04/27/23 20:23
ZZZZZ	23C0658-04	XDT_m1230427A-039	Water	04/27/23 20:29
Instrument Blank	SLD0418-IBL4	XDT_m1230427A-041	NA	04/27/23 20:41
Calibration Check	SLD0418-CCV4	XDT_m1230427A-042	NA	04/27/23 20:46
Calibration Blank	SLD0418-CCB4	XDT_m1230427A-043	NA	04/27/23 20:54
Instrument Blank	SLD0418-IBL5	XDT_m1230427A-051	NA	04/27/23 21:36
Calibration Check	SLD0418-CCV5	XDT_m1230427A-052	NA	04/27/23 21:42

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLD0418

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GD00078

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SLD0418-CCB5	XDT_m1230427A-053	NA	04/27/23 21:49
Calibration Check	SLD0418-CCV6	XDT_m1230427A-055	NA	04/27/23 22:09
Calibration Blank	SLD0418-CCB6	XDT_m1230427A-056	NA	04/27/23 22:16
ZZZZZ	23C0774-02	XDT_m1230427A-058	Solid	04/27/23 22:29
ZZZZZ	23C0774-02	XDT_m1230427A-058	Solid	04/27/23 22:29
ZZZZZ	23C0774-02	XDT_m1230427A-058	Solid	04/27/23 22:29
ZZZZZ	23C0774-03	XDT_m1230427A-059	Solid	04/27/23 22:34
ZZZZZ	23C0774-03	XDT_m1230427A-059	Solid	04/27/23 22:34
ZZZZZ	23C0774-03	XDT_m1230427A-059	Solid	04/27/23 22:34
ZZZZZ	23C0774-04	XDT_m1230427A-060	Solid	04/27/23 22:40
ZZZZZ	23C0774-04	XDT_m1230427A-060	Solid	04/27/23 22:40
ZZZZZ	23C0774-04	XDT_m1230427A-060	Solid	04/27/23 22:40
ZZZZZ	23C0774-01	XDT_m1230427A-061	Solid	04/27/23 22:44
ZZZZZ	23C0774-01	XDT_m1230427A-061	Solid	04/27/23 22:44
Instrument Blank	SLD0418-IBL7	XDT_m1230427A-066	NA	04/27/23 23:06
Calibration Check	SLD0418-CCV7	XDT_m1230427A-067	NA	04/27/23 23:11
Calibration Blank	SLD0418-CCB7	XDT_m1230427A-068	NA	04/27/23 23:18
ZZZZZ	BLD0394-BLK1	XDT_m1230427A-069	Solid	04/27/23 23:22
ZZZZZ	BLD0394-BS1	XDT_m1230427A-070	Solid	04/27/23 23:27
ZZZZZ	23C0774-05	XDT_m1230427A-071	Solid	04/27/23 23:31
ZZZZZ	23C0774-05	XDT_m1230427A-071	Solid	04/27/23 23:31
ZZZZZ	23C0774-05	XDT_m1230427A-071	Solid	04/27/23 23:31
ZZZZZ	23C0774-06	XDT_m1230427A-072	Solid	04/27/23 23:35
ZZZZZ	23C0774-06	XDT_m1230427A-072	Solid	04/27/23 23:35
ZZZZZ	23C0774-06	XDT_m1230427A-072	Solid	04/27/23 23:35
ZZZZZ	23C0774-07	XDT_m1230427A-073	Solid	04/27/23 23:40
ZZZZZ	23C0774-07	XDT_m1230427A-073	Solid	04/27/23 23:40
ZZZZZ	23C0774-07	XDT_m1230427A-073	Solid	04/27/23 23:40
ZZZZZ	23C0774-08	XDT_m1230427A-074	Solid	04/27/23 23:44

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLD0418

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GD00078

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23C0774-08	XDT_m1230427A-074	Solid	04/27/23 23:44
ZZZZZ	23C0774-08	XDT_m1230427A-074	Solid	04/27/23 23:44
ZZZZZ	23C0774-09	XDT_m1230427A-075	Solid	04/27/23 23:49
ZZZZZ	23C0774-09	XDT_m1230427A-075	Solid	04/27/23 23:49
ZZZZZ	23C0774-09	XDT_m1230427A-075	Solid	04/27/23 23:49
ZZZZZ	23C0774-10	XDT_m1230427A-076	Solid	04/27/23 23:53
ZZZZZ	23C0774-10	XDT_m1230427A-076	Solid	04/27/23 23:53
ZZZZZ	23C0774-10	XDT_m1230427A-076	Solid	04/27/23 23:53
ZZZZZ	23C0774-11	XDT_m1230427A-077	Solid	04/27/23 23:58
ZZZZZ	23C0774-11	XDT_m1230427A-077	Solid	04/27/23 23:58
ZZZZZ	23C0774-11	XDT_m1230427A-077	Solid	04/27/23 23:58
Instrument Blank	SLD0418-IBL8	XDT_m1230427A-078	NA	04/28/23 00:02
Calibration Check	SLD0418-CCV8	XDT_m1230427A-079	NA	04/28/23 00:06
Calibration Blank	SLD0418-CCB8	XDT_m1230427A-080	NA	04/28/23 00:14
ZZZZZ	23C0774-12	XDT_m1230427A-081	Solid	04/28/23 00:18
ZZZZZ	23C0774-12	XDT_m1230427A-081	Solid	04/28/23 00:18
ZZZZZ	23C0774-12	XDT_m1230427A-081	Solid	04/28/23 00:18
ZZZZZ	23C0774-13	XDT_m1230427A-082	Solid	04/28/23 00:22
ZZZZZ	23C0774-13	XDT_m1230427A-082	Solid	04/28/23 00:22
ZZZZZ	23C0774-13	XDT_m1230427A-082	Solid	04/28/23 00:22
ZZZZZ	23C0774-14	XDT_m1230427A-083	Solid	04/28/23 00:27
ZZZZZ	23C0774-14	XDT_m1230427A-083	Solid	04/28/23 00:27
ZZZZZ	23C0774-14	XDT_m1230427A-083	Solid	04/28/23 00:27
ZZZZZ	23A0326-02	XDT_m1230427A-084	Solid	04/28/23 00:31
ZZZZZ	23A0326-02	XDT_m1230427A-084	Solid	04/28/23 00:31
ZZZZZ	23A0326-02	XDT_m1230427A-084	Solid	04/28/23 00:31
ZZZZZ	23A0326-01	XDT_m1230427A-085	Solid	04/28/23 00:36
ZZZZZ	23A0326-01	XDT_m1230427A-085	Solid	04/28/23 00:36
ZZZZZ	23A0326-01	XDT_m1230427A-085	Solid	04/28/23 00:36

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLD0418

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GD00078

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	BLD0394-DUP1	XDT_m1230427A-086	Solid	04/28/23 00:40
ZZZZZ	BLD0394-MS1	XDT_m1230427A-087	Solid	04/28/23 00:45
ZZZZZ	BLD0394-MSD1	XDT_m1230427A-088	Solid	04/28/23 00:49
Instrument Blank	SLD0418-IBL9	XDT_m1230427A-090	NA	04/28/23 00:58
Calibration Check	SLD0418-CCV9	XDT_m1230427A-091	NA	04/28/23 01:02
Calibration Blank	SLD0418-CCB9	XDT_m1230427A-092	NA	04/28/23 01:10
ZZZZZ	BLD0754-BLK1	XDT_m1230427A-095	Water	04/28/23 01:23
ZZZZZ	BLD0754-BS1	XDT_m1230427A-096	Water	04/28/23 01:27
ZZZZZ	23A0326-04	XDT_m1230427A-097	Solid	04/28/23 01:32
ZZZZZ	23A0326-04	XDT_m1230427A-097	Solid	04/28/23 01:32
ZZZZZ	23A0326-04	XDT_m1230427A-097	Solid	04/28/23 01:32
ZZZZZ	23A0326-05	XDT_m1230427A-098	Solid	04/28/23 01:36
ZZZZZ	23A0326-05	XDT_m1230427A-098	Solid	04/28/23 01:36
ZZZZZ	23A0326-05	XDT_m1230427A-098	Solid	04/28/23 01:36
ZZZZZ	23A0326-10	XDT_m1230427A-099	Solid	04/28/23 01:41
ZZZZZ	23A0326-10	XDT_m1230427A-099	Solid	04/28/23 01:41
ZZZZZ	23A0326-10	XDT_m1230427A-099	Solid	04/28/23 01:41
ZZZZZ	23A0326-11	XDT_m1230427A-100	Solid	04/28/23 01:45
ZZZZZ	23A0326-11	XDT_m1230427A-100	Solid	04/28/23 01:45
ZZZZZ	23A0326-11	XDT_m1230427A-100	Solid	04/28/23 01:45
ZZZZZ	23A0326-12	XDT_m1230427A-101	Solid	04/28/23 01:49
ZZZZZ	23A0326-12	XDT_m1230427A-101	Solid	04/28/23 01:49
ZZZZZ	23A0326-12	XDT_m1230427A-101	Solid	04/28/23 01:49
Instrument Blank	SLD0418-IBLA	XDT_m1230427A-102	NA	04/28/23 01:54
Calibration Check	SLD0418-CCVA	XDT_m1230427A-103	NA	04/28/23 01:58
Calibration Blank	SLD0418-CCBA	XDT_m1230427A-104	NA	04/28/23 02:06
Instrument Blank	SLD0418-IBLB	XDT_m1230427A-114	NA	04/28/23 02:50
Calibration Check	SLD0418-CCVB	XDT_m1230427A-115	NA	04/28/23 02:54
Calibration Blank	SLD0418-CCBB	XDT_m1230427A-116	NA	04/28/23 03:01

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLD0418

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GD00078

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Check	SLD0418-CCVC	XDT_m1230427A-118	NA	04/28/23 03:10
Calibration Blank	SLD0418-CCBC	XDT_m1230427A-119	NA	04/28/23 03:18
Instrument Blank	SLD0418-IBLD	XDT_m1230427A-129	NA	04/28/23 04:02
Calibration Check	SLD0418-CCVD	XDT_m1230427A-130	NA	04/28/23 04:06
Calibration Blank	SLD0418-CCBD	XDT_m1230427A-131	NA	04/28/23 04:13
Instrument Blank	SLD0418-IBLE	XDT_m1230427A-141	NA	04/28/23 04:58
Calibration Check	SLD0418-CCVE	XDT_m1230427A-142	NA	04/28/23 05:03
Calibration Blank	SLD0418-CCBE	XDT_m1230427A-143	NA	04/28/23 05:10
Instrument Blank	SLD0418-IBLF	XDT_m1230427A-153	NA	04/28/23 05:54
Calibration Check	SLD0418-CCVF	XDT_m1230427A-154	NA	04/28/23 05:58
Calibration Blank	SLD0418-CCBF	XDT_m1230427A-155	NA	04/28/23 06:05
Instrument Blank	SLD0418-IBLG	XDT_m1230427A-165	NA	04/28/23 06:50
Calibration Check	SLD0418-CCVG	XDT_m1230427A-166	NA	04/28/23 06:54
Calibration Blank	SLD0418-CCBG	XDT_m1230427A-167	NA	04/28/23 07:02
Calibration Check	SLD0418-CCVH	XDT_m1230427A-169	NA	04/28/23 07:10
Calibration Blank	SLD0418-CCBH	XDT_m1230427A-170	NA	04/28/23 07:18
ZZZZZ	23D0062-01RE1	XDT_m1230427A-173	Water	04/28/23 07:32
ZZZZZ	23D0062-05RE1	XDT_m1230427A-174	Water	04/28/23 07:36
ZZZZZ	23D0062-07RE1	XDT_m1230427A-175	Water	04/28/23 07:41
ZZZZZ	23D0062-03RE1	XDT_m1230427A-176	Water	04/28/23 07:45
ZZZZZ	BLD0754-DUP1	XDT_m1230427A-177	Water	04/28/23 07:49
ZZZZZ	BLD0754-MS1	XDT_m1230427A-178	Water	04/28/23 07:54
ZZZZZ	BLD0754-MSD1	XDT_m1230427A-179	Water	04/28/23 07:59
Instrument Blank	SLD0418-IBLI	XDT_m1230427A-180	NA	04/28/23 08:03
Calibration Check	SLD0418-CCVI	XDT_m1230427A-181	NA	04/28/23 08:07
Calibration Blank	SLD0418-CCBI	XDT_m1230427A-182	NA	04/28/23 08:15
Instrument Blank	SLD0418-IBLJ	XDT_m1230427A-192	NA	04/28/23 09:01
Calibration Check	SLD0418-CCVJ	XDT_m1230427A-193	NA	04/28/23 09:06
Calibration Blank	SLD0418-CCBJ	XDT_m1230427A-194	NA	04/28/23 09:13

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLD0418

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GD00078

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Instrument Blank	SLD0418-IBLK	XDT_m1230427A-204	NA	04/28/23 09:58
Calibration Check	SLD0418-CCVK	XDT_m1230427A-205	NA	04/28/23 10:03
Calibration Blank	SLD0418-CCBK	XDT_m1230427A-206	NA	04/28/23 10:10
Instrument Blank	SLD0418-IBLL	XDT_m1230427A-216	NA	04/28/23 10:57
Calibration Check	SLD0418-CCVL	XDT_m1230427A-217	NA	04/28/23 11:02
Calibration Blank	SLD0418-CCBL	XDT_m1230427A-218	NA	04/28/23 11:09
Instrument Blank	SLD0418-IBLM	XDT_m1230427A-221	NA	04/28/23 11:25
Instrument Blank	SLD0418-IBLN	XDT_m1230427A-224	NA	04/28/23 11:43
Instrument Blank	SLD0418-IBLO	XDT_m1230427A-225	NA	04/28/23 11:50
Calibration Check	SLD0418-CCVM	XDT_m1230427A-227	NA	04/28/23 11:59
Calibration Blank	SLD0418-CCBM	XDT_m1230427A-228	NA	04/28/23 12:06
Calibration Check	SLD0418-CCVN	XDT_m1230427A-230	NA	04/28/23 12:15
Calibration Blank	SLD0418-CCBN	XDT_m1230427A-231	NA	04/28/23 12:20
ZZZZZ	23C0774-02RE1	XDT_m1230427A-232	Solid	04/28/23 12:24
ZZZZZ	23C0774-03RE1	XDT_m1230427A-233	Solid	04/28/23 12:25
ZZZZZ	23C0774-04RE1	XDT_m1230427A-234	Solid	04/28/23 12:27
ZZZZZ	23C0774-05RE1	XDT_m1230427A-235	Solid	04/28/23 12:28
ZZZZZ	23C0774-06RE1	XDT_m1230427A-236	Solid	04/28/23 12:30
Calibration Check	SLD0418-CCVO	XDT_m1230427A-242	NA	04/28/23 12:40
Calibration Blank	SLD0418-CCBO	XDT_m1230427A-243	NA	04/28/23 12:44
Calibration Check	SLD0418-CCVP	XDT_m1230427A-246	NA	04/28/23 12:51
Calibration Blank	SLD0418-CCBP	XDT_m1230427A-247	NA	04/28/23 12:55
ZZZZZ	23A0326-02RE1	XDT_m1230427A-248	Solid	04/28/23 12:57
ZZZZZ	23A0326-04RE1	XDT_m1230427A-249	Solid	04/28/23 12:59
ZZZZZ	23A0326-05RE1	XDT_m1230427A-250	Solid	04/28/23 13:00
ZZZZZ	23A0326-11RE1	XDT_m1230427A-251	Solid	04/28/23 13:02
ZZZZZ	23A0326-12RE1	XDT_m1230427A-252	Solid	04/28/23 13:03
ZZZZZ	23A0326-01RE1	XDT_m1230427A-253	Solid	04/28/23 13:05
ZZZZZ	BLD0394-DUP2	XDT_m1230427A-254	Solid	04/28/23 13:06

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLD0418

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GD00078

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	BLD0394-MS2	XDT_m1230427A-255	Solid	04/28/23 13:08
ZZZZZ	BLD0394-MSD2	XDT_m1230427A-256	Solid	04/28/23 13:09
Calibration Check	SLD0418-CCVQ	XDT_m1230427A-258	NA	04/28/23 13:13
Calibration Blank	SLD0418-CCBQ	XDT_m1230427A-259	NA	04/28/23 13:19
ZZZZZ	23C0774-07RE1	XDT_m1230427A-260	Solid	04/28/23 13:23
ZZZZZ	23C0774-08RE1	XDT_m1230427A-261	Solid	04/28/23 13:25
ZZZZZ	23C0774-09RE1	XDT_m1230427A-262	Solid	04/28/23 13:26
ZZZZZ	23C0774-11RE1	XDT_m1230427A-263	Solid	04/28/23 13:28
ZZZZZ	23C0774-12RE1	XDT_m1230427A-264	Solid	04/28/23 13:29
ZZZZZ	23C0774-13RE1	XDT_m1230427A-265	Solid	04/28/23 13:30
ZZZZZ	23C0774-01RE1	XDT_m1230427A-266	Solid	04/28/23 13:34
Calibration Check	SLD0418-CCVR	XDT_m1230427A-270	NA	04/28/23 13:40
Calibration Blank	SLD0418-CCBR	XDT_m1230427A-271	NA	04/28/23 13:45

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0043
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLE0043-CAL1	XDT_m1230502-013	NA	05/02/23 13:47
CAL 1 - LOW CHECK	SLE0043-CAL2	XDT_m1230502-014	NA	05/02/23 13:52
CAL 2	SLE0043-CAL3	XDT_m1230502-015	NA	05/02/23 13:56
CAL 3	SLE0043-CAL4	XDT_m1230502-016	NA	05/02/23 14:01
CAL 4	SLE0043-CAL5	XDT_m1230502-017	NA	05/02/23 14:06
CAL 5	SLE0043-CAL6	XDT_m1230502-018	NA	05/02/23 14:12
RINSE	SLE0043-IBL1	XDT_m1230502-019	NA	05/02/23 14:19
Initial Cal Check	SLE0043-ICV1	XDT_m1230502-021	NA	05/02/23 14:30
Initial Cal Blank	SLE0043-ICB1	XDT_m1230502-022	NA	05/02/23 14:37
Calibration Check	SLE0043-CCV1	XDT_m1230502-023	NA	05/02/23 14:42
Calibration Blank	SLE0043-CCB1	XDT_m1230502-024	NA	05/02/23 14:49
Instrument RL Check	SLE0043-CRL1	XDT_m1230502-026	NA	05/02/23 15:04
Interference Check A	SLE0043-IFA1	XDT_m1230502-027	NA	05/02/23 15:08
Interference Check B	SLE0043-IFB1	XDT_m1230502-028	NA	05/02/23 15:13
LR200	SLE0043-HCV1	XDT_m1230502-029	NA	05/02/23 15:18
LR300	SLE0043-HCV2	XDT_m1230502-030	NA	05/02/23 15:22
Instrument Blank	SLE0043-IBL2	XDT_m1230502-031	NA	05/02/23 15:31
Instrument Blank	SLE0043-IBL3	XDT_m1230502-032	NA	05/02/23 15:37
Calibration Check	SLE0043-CCV2	XDT_m1230502-034	NA	05/02/23 15:50
Calibration Blank	SLE0043-CCB2	XDT_m1230502-035	NA	05/02/23 15:57
Instrument Blank	SLE0043-IBL4	XDT_m1230502-044	NA	05/02/23 16:49
Calibration Check	SLE0043-CCV3	XDT_m1230502-045	NA	05/02/23 16:54
Calibration Blank	SLE0043-CCB3	XDT_m1230502-046	NA	05/02/23 17:01
Calibration Check	SLE0043-CCV4	XDT_m1230502-048	NA	05/02/23 17:11
Calibration Blank	SLE0043-CCB4	XDT_m1230502-049	NA	05/02/23 17:18
ZZZZZ	23A0417-02	XDT_m1230502-050	Solid	05/02/23 17:24
ZZZZZ	23A0417-02	XDT_m1230502-050	Solid	05/02/23 17:24
ZZZZZ	23A0417-02	XDT_m1230502-050	Solid	05/02/23 17:24
ZZZZZ	23A0417-03	XDT_m1230502-051	Solid	05/02/23 17:28

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0043

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0417-03	XDT_m1230502-051	Solid	05/02/23 17:28
ZZZZZ	23A0417-04	XDT_m1230502-052	Solid	05/02/23 17:32
ZZZZZ	23A0417-04	XDT_m1230502-052	Solid	05/02/23 17:32
ZZZZZ	23A0417-04	XDT_m1230502-052	Solid	05/02/23 17:32
ZZZZZ	23A0417-05	XDT_m1230502-053	Solid	05/02/23 17:37
ZZZZZ	23A0417-05	XDT_m1230502-053	Solid	05/02/23 17:37
ZZZZZ	23A0417-05	XDT_m1230502-053	Solid	05/02/23 17:37
ZZZZZ	23A0417-06	XDT_m1230502-054	Solid	05/02/23 17:41
ZZZZZ	23A0417-06	XDT_m1230502-054	Solid	05/02/23 17:41
ZZZZZ	23A0417-06	XDT_m1230502-054	Solid	05/02/23 17:41
ZZZZZ	23A0417-07	XDT_m1230502-055	Solid	05/02/23 17:46
ZZZZZ	23A0417-07	XDT_m1230502-055	Solid	05/02/23 17:46
ZZZZZ	23A0417-07	XDT_m1230502-055	Solid	05/02/23 17:46
ZZZZZ	23A0417-08	XDT_m1230502-056	Solid	05/02/23 17:50
ZZZZZ	23A0417-08	XDT_m1230502-056	Solid	05/02/23 17:50
ZZZZZ	23A0417-09	XDT_m1230502-057	Solid	05/02/23 17:55
ZZZZZ	23A0417-09	XDT_m1230502-057	Solid	05/02/23 17:55
ZZZZZ	23A0417-09	XDT_m1230502-057	Solid	05/02/23 17:55
ZZZZZ	23A0417-10	XDT_m1230502-058	Solid	05/02/23 17:59
ZZZZZ	23A0417-10	XDT_m1230502-058	Solid	05/02/23 17:59
ZZZZZ	23A0417-10	XDT_m1230502-058	Solid	05/02/23 17:59
ZZZZZ	23A0417-11	XDT_m1230502-059	Solid	05/02/23 18:03
ZZZZZ	23A0417-11	XDT_m1230502-059	Solid	05/02/23 18:03
ZZZZZ	23A0417-11	XDT_m1230502-059	Solid	05/02/23 18:03
Calibration Check	SLE0043-CCV5	XDT_m1230502-060	NA	05/02/23 18:09
Calibration Blank	SLE0043-CCB5	XDT_m1230502-061	NA	05/02/23 18:16
ZZZZZ	23A0417-12	XDT_m1230502-062	Solid	05/02/23 18:24
ZZZZZ	23A0417-12	XDT_m1230502-062	Solid	05/02/23 18:24
ZZZZZ	23A0417-12	XDT_m1230502-062	Solid	05/02/23 18:24

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0043

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0417-13	XDT_m1230502-063	Solid	05/02/23 18:28
ZZZZZ	23A0417-13	XDT_m1230502-063	Solid	05/02/23 18:28
ZZZZZ	23A0417-13	XDT_m1230502-063	Solid	05/02/23 18:28
ZZZZZ	23A0417-14	XDT_m1230502-064	Solid	05/02/23 18:33
ZZZZZ	23A0417-14	XDT_m1230502-064	Solid	05/02/23 18:33
ZZZZZ	23A0417-15	XDT_m1230502-065	Solid	05/02/23 18:37
ZZZZZ	23A0417-15	XDT_m1230502-065	Solid	05/02/23 18:37
ZZZZZ	23A0417-15	XDT_m1230502-065	Solid	05/02/23 18:37
ZZZZZ	23A0420-01	XDT_m1230502-066	Solid	05/02/23 18:42
ZZZZZ	23A0420-01	XDT_m1230502-066	Solid	05/02/23 18:42
ZZZZZ	23A0420-07	XDT_m1230502-067	Solid	05/02/23 18:46
ZZZZZ	23A0420-07	XDT_m1230502-067	Solid	05/02/23 18:46
ZZZZZ	23A0420-08	XDT_m1230502-068	Solid	05/02/23 18:50
ZZZZZ	23A0420-08	XDT_m1230502-068	Solid	05/02/23 18:50
ZZZZZ	23A0420-08	XDT_m1230502-068	Solid	05/02/23 18:50
ZZZZZ	23A0420-09	XDT_m1230502-069	Solid	05/02/23 18:55
ZZZZZ	23A0420-09	XDT_m1230502-069	Solid	05/02/23 18:55
ZZZZZ	23A0419-02	XDT_m1230502-070	Solid	05/02/23 18:59
ZZZZZ	23A0419-02	XDT_m1230502-070	Solid	05/02/23 18:59
Calibration Check	SLE0043-CCV6	XDT_m1230502-072	NA	05/02/23 19:09
Calibration Blank	SLE0043-CCB6	XDT_m1230502-073	NA	05/02/23 19:16
ZZZZZ	23A0419-04	XDT_m1230502-080	Solid	05/02/23 19:47
ZZZZZ	23A0419-04	XDT_m1230502-080	Solid	05/02/23 19:47
ZZZZZ	23A0419-04	XDT_m1230502-080	Solid	05/02/23 19:47
ZZZZZ	23A0419-05	XDT_m1230502-081	Solid	05/02/23 19:52
ZZZZZ	23A0419-05	XDT_m1230502-081	Solid	05/02/23 19:52
ZZZZZ	23A0419-05	XDT_m1230502-081	Solid	05/02/23 19:52
ZZZZZ	23A0419-06	XDT_m1230502-082	Solid	05/02/23 19:56
ZZZZZ	23A0419-06	XDT_m1230502-082	Solid	05/02/23 19:56

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0043

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0419-06	XDT_m1230502-082	Solid	05/02/23 19:56
ZZZZZ	23A0419-07	XDT_m1230502-083	Solid	05/02/23 20:00
ZZZZZ	23A0419-07	XDT_m1230502-083	Solid	05/02/23 20:00
ZZZZZ	23A0419-07	XDT_m1230502-083	Solid	05/02/23 20:00
Calibration Check	SLE0043-CCV7	XDT_m1230502-084	NA	05/02/23 20:06
Calibration Blank	SLE0043-CCB7	XDT_m1230502-085	NA	05/02/23 20:13
ZZZZZ	23A0419-09	XDT_m1230502-087	Solid	05/02/23 20:22
ZZZZZ	23A0419-09	XDT_m1230502-087	Solid	05/02/23 20:22
ZZZZZ	23A0419-09	XDT_m1230502-087	Solid	05/02/23 20:22
ZZZZZ	23A0419-10	XDT_m1230502-088	Solid	05/02/23 20:26
ZZZZZ	23A0419-10	XDT_m1230502-088	Solid	05/02/23 20:26
ZZZZZ	23A0419-10	XDT_m1230502-088	Solid	05/02/23 20:26
ZZZZZ	23A0419-11	XDT_m1230502-089	Solid	05/02/23 20:31
ZZZZZ	23A0419-11	XDT_m1230502-089	Solid	05/02/23 20:31
ZZZZZ	23A0419-11	XDT_m1230502-089	Solid	05/02/23 20:31
ZZZZZ	23A0419-12	XDT_m1230502-090	Solid	05/02/23 20:35
ZZZZZ	23A0419-12	XDT_m1230502-090	Solid	05/02/23 20:35
ZZZZZ	23A0419-12	XDT_m1230502-090	Solid	05/02/23 20:35
LDW23-SS1026	23C0752-01	XDT_m1230502-091	Solid	05/02/23 20:40
LDW23-SS1026	23C0752-01	XDT_m1230502-091	Solid	05/02/23 20:40
LDW23-SS1026	23C0752-01	XDT_m1230502-091	Solid	05/02/23 20:40
LDW23-SS1125	23C0752-02	XDT_m1230502-092	Solid	05/02/23 20:44
LDW23-SS1125	23C0752-02	XDT_m1230502-092	Solid	05/02/23 20:44
LDW23-SS1125	23C0752-02	XDT_m1230502-092	Solid	05/02/23 20:44
LDW23-SS1132	23C0752-03	XDT_m1230502-093	Solid	05/02/23 20:49
LDW23-SS1132	23C0752-03	XDT_m1230502-093	Solid	05/02/23 20:49
LDW23-SS1132	23C0752-03	XDT_m1230502-093	Solid	05/02/23 20:49
LDW23-SS1810	23C0752-04	XDT_m1230502-094	Solid	05/02/23 20:53
LDW23-SS1810	23C0752-04	XDT_m1230502-094	Solid	05/02/23 20:53

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0043

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
LDW23-SS1810	23C0752-04	XDT_m1230502-094	Solid	05/02/23 20:53
LDW23-SS1809	23C0752-06	XDT_m1230502-095	Solid	05/02/23 20:58
LDW23-SS1809	23C0752-06	XDT_m1230502-095	Solid	05/02/23 20:58
LDW23-SS1809	23C0752-06	XDT_m1230502-095	Solid	05/02/23 20:58
Calibration Check	SLE0043-CCV8	XDT_m1230502-096	NA	05/02/23 21:03
Calibration Blank	SLE0043-CCB8	XDT_m1230502-097	NA	05/02/23 21:10
ZZZZZ	23A0455-02	XDT_m1230502-098	Solid	05/02/23 21:15
ZZZZZ	23A0455-02	XDT_m1230502-098	Solid	05/02/23 21:15
ZZZZZ	23A0455-02	XDT_m1230502-098	Solid	05/02/23 21:15
ZZZZZ	23A0455-03	XDT_m1230502-099	Solid	05/02/23 21:19
ZZZZZ	23A0455-03	XDT_m1230502-099	Solid	05/02/23 21:19
ZZZZZ	23A0455-03	XDT_m1230502-099	Solid	05/02/23 21:19
ZZZZZ	23A0455-04	XDT_m1230502-100	Solid	05/02/23 21:24
ZZZZZ	23A0455-04	XDT_m1230502-100	Solid	05/02/23 21:24
ZZZZZ	23A0455-04	XDT_m1230502-100	Solid	05/02/23 21:24
ZZZZZ	23A0455-05	XDT_m1230502-101	Solid	05/02/23 21:28
ZZZZZ	23A0455-05	XDT_m1230502-101	Solid	05/02/23 21:28
ZZZZZ	23A0455-05	XDT_m1230502-101	Solid	05/02/23 21:28
ZZZZZ	23A0455-06	XDT_m1230502-102	Solid	05/02/23 21:32
ZZZZZ	23A0455-06	XDT_m1230502-102	Solid	05/02/23 21:32
ZZZZZ	23A0455-06	XDT_m1230502-102	Solid	05/02/23 21:32
ZZZZZ	23A0455-07	XDT_m1230502-103	Solid	05/02/23 21:37
ZZZZZ	23A0455-07	XDT_m1230502-103	Solid	05/02/23 21:37
ZZZZZ	23A0455-07	XDT_m1230502-103	Solid	05/02/23 21:37
ZZZZZ	23A0455-08	XDT_m1230502-104	Solid	05/02/23 21:41
ZZZZZ	23A0455-08	XDT_m1230502-104	Solid	05/02/23 21:41
ZZZZZ	23A0455-08	XDT_m1230502-104	Solid	05/02/23 21:41
ZZZZZ	23A0455-10	XDT_m1230502-106	Solid	05/02/23 21:50
ZZZZZ	23A0455-10	XDT_m1230502-106	Solid	05/02/23 21:50

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0043

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0455-10	XDT_m1230502-106	Solid	05/02/23 21:50
ZZZZZ	23A0455-11	XDT_m1230502-107	Solid	05/02/23 21:55
ZZZZZ	23A0455-11	XDT_m1230502-107	Solid	05/02/23 21:55
ZZZZZ	23A0455-11	XDT_m1230502-107	Solid	05/02/23 21:55
Calibration Check	SLE0043-CCV9	XDT_m1230502-108	NA	05/02/23 22:00
Calibration Blank	SLE0043-CCB9	XDT_m1230502-109	NA	05/02/23 22:07
Calibration Check	SLE0043-CCVA	XDT_m1230502-111	NA	05/02/23 22:16
Calibration Blank	SLE0043-CCBA	XDT_m1230502-112	NA	05/02/23 22:23
ZZZZZ	23A0455-12	XDT_m1230502-113	Solid	05/02/23 22:28
ZZZZZ	23A0455-13	XDT_m1230502-114	Solid	05/02/23 22:32
ZZZZZ	23A0455-14	XDT_m1230502-115	Solid	05/02/23 22:37
ZZZZZ	23A0455-15	XDT_m1230502-116	Solid	05/02/23 22:41
ZZZZZ	23A0455-15	XDT_m1230502-116	Solid	05/02/23 22:41
ZZZZZ	23A0455-16	XDT_m1230502-117	Solid	05/02/23 22:45
ZZZZZ	23A0455-16	XDT_m1230502-117	Solid	05/02/23 22:45
ZZZZZ	23A0455-17	XDT_m1230502-118	Solid	05/02/23 22:50
ZZZZZ	23A0455-17	XDT_m1230502-118	Solid	05/02/23 22:50
Instrument Blank	SLE0043-IBL5	XDT_m1230502-122	NA	05/02/23 23:07
Calibration Check	SLE0043-CCVB	XDT_m1230502-123	NA	05/02/23 23:12
Calibration Blank	SLE0043-CCBB	XDT_m1230502-124	NA	05/02/23 23:19
Instrument Blank	SLE0043-IBL6	XDT_m1230502-129	NA	05/02/23 23:43
Instrument Blank	SLE0043-IBL7	XDT_m1230502-134	NA	05/03/23 00:07
Calibration Check	SLE0043-CCVC	XDT_m1230502-135	NA	05/03/23 00:11
Calibration Blank	SLE0043-CCBC	XDT_m1230502-136	NA	05/03/23 00:18
Instrument Blank	SLE0043-IBL8	XDT_m1230502-146	NA	05/03/23 01:06
Calibration Check	SLE0043-CCVD	XDT_m1230502-147	NA	05/03/23 01:10
Calibration Blank	SLE0043-CCBD	XDT_m1230502-148	NA	05/03/23 01:17
Instrument Blank	SLE0043-IBL9	XDT_m1230502-158	NA	05/03/23 01:56
Calibration Check	SLE0043-CCVE	XDT_m1230502-159	NA	05/03/23 02:00

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0043

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SLE0043-CCBE	XDT_m1230502-160	NA	05/03/23 02:06
Calibration Check	SLE0043-CCVF	XDT_m1230502-162	NA	05/03/23 02:14
Calibration Blank	SLE0043-CCBF	XDT_m1230502-163	NA	05/03/23 02:20
Instrument Blank	SLE0043-IBLA	XDT_m1230502-173	NA	05/03/23 02:56
Calibration Check	SLE0043-CCVG	XDT_m1230502-174	NA	05/03/23 03:00
Calibration Blank	SLE0043-CCBG	XDT_m1230502-175	NA	05/03/23 03:06
Instrument Blank	SLE0043-IBLB	XDT_m1230502-185	NA	05/03/23 03:43
Calibration Check	SLE0043-CCVH	XDT_m1230502-186	NA	05/03/23 03:47
Calibration Blank	SLE0043-CCBH	XDT_m1230502-187	NA	05/03/23 03:53
Instrument Blank	SLE0043-IBLC	XDT_m1230502-197	NA	05/03/23 04:29
Calibration Check	SLE0043-CCVI	XDT_m1230502-198	NA	05/03/23 04:33
Calibration Blank	SLE0043-CCBI	XDT_m1230502-199	NA	05/03/23 04:39
Instrument Blank	SLE0043-IBLD	XDT_m1230502-209	NA	05/03/23 05:16
Calibration Check	SLE0043-CCVJ	XDT_m1230502-210	NA	05/03/23 05:21
Calibration Blank	SLE0043-CCBJ	XDT_m1230502-211	NA	05/03/23 05:27
Instrument Blank	SLE0043-IBLE	XDT_m1230502-221	NA	05/03/23 06:04
Calibration Check	SLE0043-CCVK	XDT_m1230502-222	NA	05/03/23 06:08
Calibration Blank	SLE0043-CCBK	XDT_m1230502-223	NA	05/03/23 06:12

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00066
Sequence: SLD0370
Standard ID: L003578

Lab Sample ID	Analyte	True	Found	%R	Units
SLD0370-IFA1	Chromium-52	0	0.7750		ug/L
	Chromium-53	0	7.0750		ug/L
	Lead-208	0	0.0300		ug/L
	Silver-107	0	0.0100		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

Analytical Resources, LLC
Analytical Chemists and Consultants

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00066
Sequence: SLD0370
Standard ID: L003578

Lab Sample ID	Analyte	True	Found	%R	Units
SLD0370-IFB1	Chromium-52	20.000	19.838	99.2	ug/L
	Chromium-53	20.000	26.306	132	ug/L
	Lead-208	0	0.0250		ug/L
	Silver-107	20.000	17.920	89.6	ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00073
Sequence: SLD0387
Standard ID: L003578

Lab Sample ID	Analyte	True	Found	%R	Units
SLD0387-IFA1	Chromium-52	0	0.6910		ug/L
	Chromium-53	0	3.4730		ug/L
	Lead-208	0	0.0240		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00073
Sequence: SLD0387
Standard ID: L003578

Lab Sample ID	Analyte	True	Found	%R	Units
SLD0387-IFB1	Chromium-52	20.000	20.100	101	ug/L
	Chromium-53	20.000	22.853	114	ug/L
	Lead-208	0	0.0260		ug/L

* Indicates %R outside of QC limits
NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00078
Sequence: SLD0418
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLD0418-IFA1	Chromium-52	0	0.5840		ug/L
	Chromium-53	0	5.8540		ug/L
	Lead-208	0	0.0310		ug/L
	Silver-107	0	0.0060		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00078
Sequence: SLD0418
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLD0418-IFB1	Chromium-52	20.000	19.641	98.2	ug/L
	Chromium-53	20.000	25.230	126	ug/L
	Lead-208	0	0.0200		ug/L
	Silver-107	20.000	17.649	88.2	ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00013
Sequence: SLE0043
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0043-IFA1	Chromium-52	0	0.6710		ug/L
	Chromium-53	0	4.4590		ug/L
	Lead-208	0	0.0370		ug/L
	Silver-107	0	0.0150		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00013
Sequence: SLE0043
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0043-IFB1	Chromium-52	20.000	19.543	97.7	ug/L
	Chromium-53	20.000	23.879	119	ug/L
	Lead-208	0	0.0200		ug/L
	Silver-107	20.000	18.302	91.5	ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

DETECTION LEVEL STANDARD
EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00066
Sequence: SLD0370
Lab Sample ID: SLD0370-CRL1

Analyte	True	Found	%R	Units	QC Limts
Chromium-52	0.50000	0.554	111	ug/L	50 - 150
Chromium-53	0.50000	0.496	99.2	ug/L	50 - 150
Lead-208	0.10000	0.100	100	ug/L	50 - 150
Silver-107	0.20000	0.214	107	ug/L	50 - 150

* Values outside of QC limits

DETECTION LEVEL STANDARD
EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00073
Sequence: SLD0387
Lab Sample ID: SLD0387-CRL1

Analyte	True	Found	%R	Units	QC Limts
Chromium-52	0.50000	0.519	104	ug/L	50 - 150
Chromium-53	0.50000	0.491	98.2	ug/L	50 - 150
Lead-208	0.10000	0.0930	93.0	ug/L	50 - 150

* Values outside of QC limits

DETECTION LEVEL STANDARD
EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00078
Sequence: SLD0418
Lab Sample ID: SLD0418-CRL1

Analyte	True	Found	%R	Units	QC Limts
Chromium-52	0.50000	0.539	108	ug/L	50 - 150
Chromium-53	0.50000	0.525	105	ug/L	50 - 150
Lead-208	0.10000	0.120	120	ug/L	50 - 150
Silver-107	0.20000	0.213	107	ug/L	50 - 150

* Values outside of QC limits

DETECTION LEVEL STANDARD
EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00013
Sequence: SLE0043
Lab Sample ID: SLE0043-CRL1

Analyte	True	Found	%R	Units	QC Limts
Chromium-52	0.50000	0.518	104	ug/L	50 - 150
Chromium-53	0.50000	0.521	104	ug/L	50 - 150
Lead-208	0.10000	0.105	105	ug/L	50 - 150
Silver-107	0.20000	0.216	108	ug/L	50 - 150

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GD00066
Laboratory ID: SLD0370-HCV1
Sequence: SLD0370
Standard ID: L003671

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	200.00	199	-0.3	10.00
Chromium-53	200.00	200	-0.2	10.00
Lead-208	200.00	201	0.6	10.00
Silver-107	200.00	200	0.2	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GD00066
Laboratory ID: SLD0370-HCV2
Sequence: SLD0370
Standard ID: L003672

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	300.00	303	1.0	10.00
Chromium-53	300.00	301	0.2	10.00
Lead-208	300.00	300	-0.06	10.00
Silver-107	300.00	297	-0.8	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GD00073
Laboratory ID: SLD0387-HCV1
Sequence: SLD0387
Standard ID: L003671

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	200.00	229	14.5	10.00
Chromium-53	200.00	202	1.0	10.00
Lead-208	200.00	204	1.9	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GD00073
Laboratory ID: SLD0387-HCV2
Sequence: SLD0387
Standard ID: L003672

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	300.00	341	13.6	10.00
Chromium-53	300.00	303	1.0	10.00
Lead-208	300.00	306	2.1	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GD00078
Laboratory ID: SLD0418-HCV1
Sequence: SLD0418
Standard ID: L003671

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	200.00	199	-0.3	10.00
Chromium-53	200.00	193	-3.3	10.00
Lead-208	200.00	220	10.2	10.00
Silver-107	200.00	195	-2.5	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GD00078
Laboratory ID: SLD0418-HCV2
Sequence: SLD0418
Standard ID: L003672

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	300.00	310	3.3	10.00
Chromium-53	300.00	298	-0.5	10.00
Lead-208	300.00	341	13.8	10.00
Silver-107	300.00	291	-3.1	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00013
Laboratory ID: SLE0043-HCV1
Sequence: SLE0043
Standard ID: L004780

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	200.00	194	-2.9	10.00
Chromium-53	200.00	196	-1.9	10.00
Lead-208	200.00	212	5.9	10.00
Silver-107	200.00	189	-5.3	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00013
Laboratory ID: SLE0043-HCV2
Sequence: SLE0043
Standard ID: L004781

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	300.00	303	1.1	10.00
Chromium-53	300.00	300	0.08	10.00
Lead-208	300.00	337	12.5	10.00
Silver-107	300.00	293	-2.3	10.00

* Values outside of QC limits

HOLDING TIME SUMMARY

Analysis: EPA 6020B

Laboratory: Analytical Resources, LLC SDG: 23C0752

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

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1026 23C0752-01	03/30/23 10:37	03/30/23 16:25	04/17/23 16:44	18	180	05/02/23 20:40	33	180	
LDW23-SS1125 23C0752-02	03/30/23 11:10	03/30/23 16:25	04/17/23 16:44	18	180	05/02/23 20:44	33	180	
LDW23-SS1132 23C0752-03	03/30/23 11:30	03/30/23 16:25	04/17/23 16:44	18	180	05/02/23 20:49	33	180	
LDW23-SS1810 23C0752-04	03/30/23 10:36	03/30/23 16:25	04/17/23 16:44	18	180	05/02/23 20:53	33	180	
LDW23-SS1809 23C0752-06	03/30/23 14:30	03/30/23 16:25	04/17/23 16:44	18	180	05/02/23 20:58	33	180	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: ICPMS1

Analyte	MDL	RL	Units
Chromium-52	0.26	0.50	mg/kg
Chromium-53	0.24	0.50	mg/kg
Lead-208	0.05	0.10	mg/kg
Silver-107	0.02	0.20	mg/kg

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCU10
Lot Number:	P2-CU682108
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Copper
Starting Material:	Cu Metal
Starting Material Lot#:	2095
Starting Material Purity:	99.9996%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10013 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9977 ± 50 µg/mL**
ICP Assay NIST SRM 3114 Lot Number: 121207

Assay Method #2 **10024 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10007 ± 46 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.007542	M	Eu	<	0.000942	O	Na		0.001434	M	Se	<	0.016971	M	Zn	<	0.005657
O	Al	<	0.000609	O	Fe		0.008700	M	Nb	<	0.000942	O	Si		0.003052	M	Zr	<	0.000942
M	As	<	0.010371	M	Ga	<	0.000942	M	Nd	<	0.000942	M	Sm	<	0.000942				
M	Au	<	0.001885	M	Gd	<	0.000942	M	Ni		0.003781	M	Sn	<	0.005657				
O	B		0.003663	M	Ge	<	0.005657	M	Os	<	0.000942	M	Sr	<	0.000942				
M	Ba		0.004253	M	Hf	<	0.000942	O	P	<	0.031668	M	Ta	<	0.000942				
M	Be	<	0.000942	O	Hg	<	0.007064	M	Pb		0.005789	M	Tb	<	0.000942				
M	Bi	<	0.000942	M	Ho	<	0.000942	M	Pd	<	0.000942	M	Te	<	0.004714				
O	Ca		0.002304	M	In	<	0.000942	M	Pr	<	0.000942	M	Th	<	0.000942				
M	Cd	<	0.000942	M	Ir	<	0.000942	M	Pt	<	0.000942	O	Ti	<	0.002801				
M	Ce	<	0.000942	O	K		0.000763	M	Rb	<	0.000942	M	Tl	<	0.000942				
M	Co		0.001890	M	La	<	0.000942	M	Re	<	0.000942	M	Tm	<	0.000942				
M	Cr	<	0.005657	O	Li	<	0.000243	i	Rh	<		M	U	<	0.000942				
M	Cs	<	0.000942	M	Lu	<	0.000942	M	Ru	<	0.039588	M	V	<	0.003771				
s	Cu	<		O	Mg		0.000320	O	S		0.007174	M	W	<	0.005657				
M	Dy	<	0.000942	O	Mn		0.000793	M	Sb	<	0.001885	M	Y	<	0.000942				
M	Er	<	0.000942	M	Mo	<	0.005657	M	Sc	<	0.000942	M	Yb	<	0.000942				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 63.55 +2 6 $Cu(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4, HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Cu Containing Samples (Preparation and Solution) -Metal (soluble in HNO_3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 63 amu	10 ppt	n/a	40Ar23Na 47Ti16O, 14N12C37Cl, 16O12C35Cl, 23Na40Ca
ICP-OES 219.958 nm	0.01/.002 µg/mL	1	Th, Ta, Nb, U, Hf
ICP-OES 224.700 nm	0.01/.001 µg/mL	1	Pb, Ir, Ni, W
ICP-OES 324.754 nm	0.06/.001 µg/mL		Nb, U, Th, Mo, Hf

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 24, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 24, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGPB10
Lot Number:	S2-PB713228
Matrix:	0.5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Lead
Starting Material:	Lead Nitrate
Starting Material Lot#:	2343
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10042 ± 31 µg/mL

Density: 1.015 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10024 ± 41 µg/mL**
ICP Assay NIST SRM 3128 Lot Number: 101026

Assay Method #2 **10054 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000310	M	Eu	<	0.000310	M	Na		0.001470	M	Se	<	0.009100	O	Zn	0.006155
O	Al		0.017098	O	Fe		0.002496	M	Nb	<	0.000310	O	Si		0.003761	O	Zr	< 0.001700
M	As	<	0.003100	M	Ga	<	0.000310	M	Nd	<	0.000310	M	Sm	<	0.000310			
M	Au	<	0.000910	M	Gd	<	0.000310	O	Ni		0.001709	M	Sn	<	0.001300			
O	B	<	0.005600	M	Ge	<	0.002200	M	Os	<	0.000310	O	Sr		0.000444			
O	Ba		0.007865	M	Hf	<	0.000310	O	P	<	0.038000	M	Ta	<	0.000310			
O	Be	<	0.000320	M	Hg	<	0.002200	s	Pb	<		M	Tb	<	0.000610			
M	Bi	<	0.028000	M	Ho	<	0.000310	M	Pd	<	0.000610	M	Te	<	0.000310			
O	Ca		0.019834	M	In	<	0.000310	M	Pr	<	0.000310	M	Th	<	0.000310			
O	Cd	<	0.000630	M	Ir	<	0.000310	M	Pt	<	0.000910	O	Ti		0.005129			
M	Ce		0.004787	O	K		0.008207	M	Rb	<	0.006700	M	Tl	<	0.016000			
M	Co	<	0.000610	M	La	<	0.001900	M	Re	<	0.000310	M	Tm	<	0.000310			
O	Cr	<	0.001500	O	Li	<	0.000110	O	Rh	<	0.007700	M	U	<	0.000310			
M	Cs	<	0.006100	M	Lu	<	0.000310	M	Ru	<	0.001300	M	V	<	0.001600			
M	Cu	<	0.001600	O	Mg		0.003317	O	S	<	0.052000	M	W	<	0.000910			
M	Dy	<	0.000310	O	Mn	<	0.001600	O	Sb	<	0.015000	M	Y	<	0.000310			
M	Er	<	0.000310	M	Mo	<	0.000610	O	Sc	<	0.000630	M	Yb	<	0.000310			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 207.20 +2 6 $Pb(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, HF and HNO_3. Avoid H_2SO_4. Stable with most metals and inorganic anions forming insoluble carbonate, borate, sulfate, sulfite, sulfide, phosphate, oxalate, chromate, tannate, iodate, and cyanide in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO_3 / LDPE container.

Pb Containing Samples (Preparation and Solution) -Metal (Best dissolved in 1:1 H_2O / HNO_3); Oxides (The many different Pb oxides are soluble in HNO_3 with the exception of PbO_2 which is soluble in HCl or HF); Ores and Alloys (Best attacked using 1:1 H_2O / HNO_3); Organic Matrices (Dry ash and dissolve in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 208 amu	5 ppt	n/a	192Pt16O, 192Os16O
ICP-OES 168.215 nm	0.03 / 0.003 µg/mL	1	Co
ICP-OES 217.000 nm	0.09 / 0.03 µg/mL	1	W, Ir, Hf, Sb, Th
ICP-OES 220.353 nm	0.04 / 0.006 µg/mL	1	Bi, Nb

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

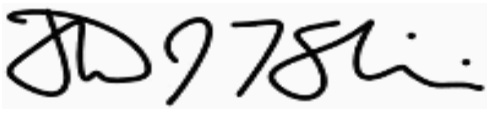
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGZN10
Lot Number:	S2-ZN711249
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Zinc
Starting Material:	Zinc Metal
Starting Material Lot#:	2349
Starting Material Purity:	99.9988%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9992 ± 30 µg/mL

Density: 1.029 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9981 ± 56 µg/mL**
ICP Assay NIST SRM 3168a Lot Number: 120629

Assay Method #2 **9987 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10002 ± 32 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002000	M	Eu	<	0.000500	O	Na		0.008713	M	Se	<	0.048000	s	Zn	<	
O	Al	<	0.011000	O	Fe		0.015467	M	Nb	<	0.000500	O	Si		0.007842	M	Zr	<	0.000500
O	As	<	0.012000	M	Ga	<	0.004900	M	Nd	<	0.000500	M	Sm	<	0.000500				
M	Au	<	0.006500	M	Gd	<	0.000500	O	Ni		0.003049	M	Sn		0.002614				
O	B	<	0.019000	M	Ge	<	0.009100	M	Os	<	0.000500	M	Sr	<	0.000500				
M	Ba	<	0.000500	M	Hf	<	0.000500	O	P	<	0.059000	M	Ta	<	0.000500				
O	Be	<	0.000230	O	Hg	<	0.003800	M	Pb		0.016774	M	Tb	<	0.000500				
M	Bi	<	0.002400	M	Ho	<	0.000500	M	Pd	<	0.001000	M	Te	<	0.017000				
O	Ca		0.052283	M	In	<	0.003500	M	Pr	<	0.000500	M	Th	<	0.000500				
O	Cd		0.000588	M	Ir	<	0.001000	M	Pt	<	0.000500	M	Ti	<	0.002000				
M	Ce	<	0.000500	O	K		0.017209	M	Rb	<	0.002500	M	Tl	<	0.000500				
M	Co		0.000653	M	La	<	0.000500	M	Re	<	0.000500	M	Tm	<	0.000500				
O	Cr		0.001089	O	Li	<	0.000230	M	Rh	<	0.000500	M	U	<	0.000500				
M	Cs	<	0.000500	M	Lu	<	0.000500	M	Ru	<	0.005000	M	V	<	0.000500				
O	Cu		0.001938	O	Mg		0.000871	O	S	<	0.048000	M	W	<	0.001000				
M	Dy	<	0.000500	O	Mn		0.000172	M	Sb	<	0.004300	M	Y	<	0.000500				
M	Er	<	0.000500	M	Mo	<	0.001500	O	Sc	<	0.000900	M	Yb	<	0.000500				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 65.39 +2 4 Zn(OH)(aq)1+
Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media forming insoluble carbonate and hydroxide. Stable with most metals and inorganic anions in acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
Zn Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3); Organic based (dry ash at 4500C and dissolve ash in HCl) (sulfuric/peroxide acid digestion)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 66 amu	7 ppt	N/A	50Ti16O,50Cr16O, 50V16O, 34S16O2, 32S16O18O, 32S17O2, 33S16O17O, 32S34S, 33S2
ICP-OES 202.548 nm	0.004/0.0002 µg/mL	1	Nb, Cu, Co, Hf
ICP-OES 206.200 nm	0.006/0.0006 µg/mL	1	Sb, Ta, Bi, Os
ICP-OES 213.856 nm	0.002/0.0004 µg/mL	1	Ni, Cu, V

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 22, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

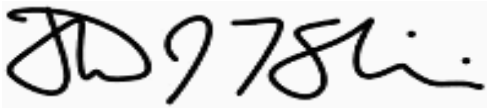
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSE10
Lot Number:	S2-SE711004
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Selenium
Starting Material:	Se Metal
Starting Material Lot#:	1962
Starting Material Purity:	99.9991%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9955 ± 61 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9955 ± 50 µg/mL**
ICP Assay NIST SRM 3149 Lot Number: 100901

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002242	M	Eu	<	0.000373	O	Na		0.013654	s	Se	<		O	Zn		0.002374
M	Al		0.004450	M	Fe		0.008478	O	Nb	<	0.002975	O	Si		0.006249	M	Zr	<	0.001868
O	As	<	0.022040	M	Ga	<	0.000373	M	Nd	<	0.000373	M	Sm	<	0.000373				
M	Au	<	0.000373	M	Gd	<	0.000373	O	Ni		0.001843	M	Sn		0.000847				
O	B	<	0.007714	M	Ge	<	0.002616	M	Os	<	0.000373	M	Sr	<	0.001121				
M	Ba	<	0.001495	M	Hf	<	0.000373	O	P	<	0.022040	M	Ta	<	0.000373				
M	Be	<	0.001495	M	Hg	<	0.002240	M	Pb		0.006358	M	Tb	<	0.006353				
M	Bi	<	0.000373	M	Ho	<	0.000373	M	Pd	<	0.000373	M	Te	<	0.012707				
O	Ca		0.006530	M	In	<	0.000373	M	Pr	<	0.001495	M	Th	<	0.002990				
M	Cd		0.001165	M	Ir	<	0.000373	M	Pt	<	0.000373	M	Ti	<	0.003363				
M	Ce	<	0.000373	O	K		0.001999	M	Rb	<	0.001868	M	Tl		0.008584				
M	Co	<	0.000373	M	La	<	0.001121	M	Re	<	0.000373	M	Tm	<	0.000373				
M	Cr		0.002861	O	Li		0.000062	M	Rh	<	0.000373	M	U	<	0.000373				
M	Cs	<	0.001121	M	Lu	<	0.000373	M	Ru	<	0.001493	M	V	<	0.000747				
M	Cu	<	0.000747	O	Mg		0.001156	O	S		0.024591	M	W	<	0.002242				
M	Dy	<	0.000373	M	Mn	<	0.000373	M	Sb	<	0.002242	M	Y	<	0.000373				
M	Er	<	0.000373	O	Mo	<	0.003195	M	Sc	<	0.001121	M	Yb	<	0.000373				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 78.96 +4 6 H_2SeO_3

Chemical Compatibility -Soluble in HCl, HNO_3,H_3PO_4, H_2SO_4 and HF aqueous matrices and water. It is stable with most inorganic anions but many cationic metals form the insoluble selenites under pH neutral conditions. When fluorinated and/or under acidic conditions precipitation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Se Containing Samples (Preparation and Solution) -Metal (soluble in HNO_3); Oxides (readily soluble in water); Minerals and alloys (acid digestion with HNO_3or HNO_3 / HF); Organic Matrices (acid digestion with hot concentrated H_2SO_4 accompanied by the careful dropwise addition of H_2O_2 until clear).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 82 amu	200 ppt	N/A	12C35Cl2
ICP-OES 196.026 nm	0.08/0.006 µg/mL	1	Fe
ICP-OES 203.985 nm	0.2/0.05 µg/mL	1	Sb, Ir, Cr, Ta
ICP-OES 206.279 nm	0.3/0.16 µg/mL	1	Cr, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 17, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
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info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMO10
Lot Number:	S2-MO706255
Matrix:	H2O tr. NH4OH
Value / Analyte(s):	10 000 µg/mL ea: Molybdenum
Starting Material:	Ammonium Molybdate
Starting Material Lot#:	2361
Starting Material Purity:	99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10026 ± 47 µg/mL

Density: 1.011 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10032 ± 68 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

Assay Method #2 **10020 ± 65 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000590	M	Eu	<	0.000300	M	Na		0.008739	M	Se	<	0.008000	M	Zn		0.005942
M	Al		0.005592	M	Fe	<	0.006500	M	Nb	<	0.029000	i	Si	<		M	Zr	<	0.001800
M	As	<	0.002100	M	Ga	<	0.000300	i	Nd	<		M	Sm	<	0.000300				
M	Au	<	0.000300	M	Gd	<	0.000300	M	Ni	<	0.008000	M	Sn	<	0.008900				
M	B	<	0.003300	M	Ge	<	0.000300	M	Os	<	0.000590	M	Sr		0.001747				
M	Ba		0.016778	M	Hf	<	0.001800	i	P	<		M	Ta	<	0.004200				
M	Be	<	0.000890	M	Hg	<	0.003300	M	Pb	<	0.000300	M	Tb	<	0.000300				
M	Bi	<	0.000890	M	Ho	<	0.000300	M	Pd	<	0.001800	M	Te	<	0.021000				
O	Ca		0.062920	M	In	<	0.032000	M	Pr	<	0.013000	M	Th	<	0.000300				
O	Cd	<	0.026000	M	Ir	<	0.000300	M	Pt	<	0.000300	O	Ti	<	0.032000				
M	Ce	<	0.008300	M	K		1.293372	M	Rb		0.045442	M	Tl		0.012584				
M	Co		0.005942	M	La	<	0.000300	M	Re	<	0.000300	M	Tm	<	0.000300				
M	Cr		0.005243	O	Li		0.000594	M	Rh	<	0.000300	M	U	<	0.005300				
M	Cs		0.005243	M	Lu	<	0.000300	M	Ru	<	0.079000	M	V	<	0.000890				
M	Cu		0.022371	M	Mg		0.005592	i	S	<		M	W		0.873900				
M	Dy	<	0.000300	M	Mn	<	0.005900	M	Sb		0.015031	M	Y	<	0.000300				
M	Er	<	0.000300	s	Mo	<		M	Sc	<	0.001200	M	Yb	<	0.000300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 95.94 +6 6,7,8,9 [MoO4]-2(chemical form as received)

Chemical Compatibility -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 95 amu	3 ppt	n/a	40Ar39K16O,79Br16O,190Os2+,190Pt2+
ICP-OES 202.030 nm	0.008 / 0.0002 µg/mL	1	Os, Hf
ICP-OES 203.844 nm	0.012 / 0.002 µg/mL	1	
ICP-OES 204.598 nm	0.012 / 0.001 µg/mL	1	Ir, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 04, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **July 04, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTL10
Lot Number:	T2-TL714687
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Thallium
Starting Material:	TlNO3
Starting Material Lot#:	2118
Starting Material Purity:	99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10030 ± 42 µg/mL

Density: 1.036 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10040 ± 43 µg/mL**
ICP Assay NIST SRM 3158 Lot Number: 151215

Assay Method #2 **10010 ± 65 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL(

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000200	M	Eu	<	0.000200	O	Na		0.002489	M	Se	<	0.011019	O	Zn		0.002298
O	Al	<	0.004184	O	Fe	<	0.002824	M	Nb	<	0.000200	O	Si		0.003760	M	Zr	<	0.000200
M	As	<	0.002003	M	Ga	<	0.000200	M	Nd	<	0.000200	M	Sm	<	0.000200				
O	Au	<	0.002824	M	Gd	<	0.000200	M	Ni		0.001724	M	Sn	<	0.000601				
O	B	<	0.004184	M	Ge	<	0.000801	M	Os	<	0.000198	O	Sr	<	0.000313				
M	Ba	<	0.000400	M	Hf	<	0.000200	O	P	<	0.010460	M	Ta	<	0.000200				
O	Be	<	0.000104	M	Hg	<	0.000794	M	Pb		0.000811	M	Tb	<	0.000200				
M	Bi	<	0.005209	M	Ho	<	0.000200	M	Pd	<	0.000400	M	Te	<	0.005008				
O	Ca		0.002436	M	In	<	0.000200	M	Pr	<	0.000200	M	Th	<	0.000200				
M	Cd		0.001318	M	Ir	<	0.000198	M	Pt	<	0.000801	O	Ti	<	0.001255				
M	Ce	<	0.000200	O	K		0.006175	M	Rb	<	0.000200	s	Tl	<					
M	Co	<	0.000601	M	La	<	0.000200	M	Re	<	0.000200	M	Tm	<	0.000200				
M	Cr	<	0.000801	O	Li	<	0.000177	M	Rh	<	0.000200	M	U	<	0.000200				
M	Cs	<	0.003606	M	Lu	<	0.000200	M	Ru	<	0.000397	M	V	<	0.002203				
M	Cu	<	0.001001	O	Mg		0.000529	O	S	<	0.015690	M	W	<	0.000601				
M	Dy	<	0.000200	M	Mn	<	0.000801	M	Sb	<	0.000400	M	Y	<	0.000200				
M	Er	<	0.000200	M	Mo	<	0.001202	O	Sc	<	0.000711	M	Yb	<	0.000200				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 204.38 +1 6 Tl(H2O)61+
Chemical Compatibility - Soluble in HCl, HNO3, and H2SO4. Stable with most metals and inorganic anions. The sulfite, thiocyanate and oxalate are moderately soluble; the phosphate and arsenite are slightly soluble and the sulfide is insoluble.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
Tl Containing Samples)Preparation and Solution) -Metal (Best dissolved in HNO3 which forms chiefly the Tl1+ ion.); Oxide (The thallous oxide is readily soluble in water. The thallic oxide requires high levels of acid); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in HCl).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 205 amu	2 ppt	N/A	189Os16O
ICP-OES 190.864 nm	0.04 / 0.004 µg/mL	1	V, Ti
ICP-OES 276.787 nm	0.1 / 0.01 µg/mL	1	Ta, V, Fe, Cr
ICP-OES 351.924 nm	0.2 / 0.02 µg/mL	1	Th, Ce, Zr

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 08, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **February 08, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

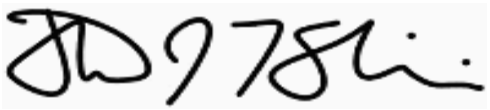
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCD10
Lot Number:	S2-CD710508
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Cadmium
Starting Material:	Cd Metal
Starting Material Lot#:	1953
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10008 ± 30 µg/mL

Density: 1.029 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10010 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #2 **10011 ± 30 µg/mL**
ICP Assay NIST SRM 3108 Lot Number: 130116

Assay Method #3 **10003 ± 30 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag	<	0.003200	O	Eu	<	0.002500	O	Na		0.005499	M	Se	<	0.005700	O	Zn	<	0.001100
O	Al		0.008903	O	Fe		0.000602	M	Nb	<	0.000400	O	Si		0.016758	O	Zr	<	0.002600
M	As	<	0.003600	M	Ga	<	0.001200	M	Nd	<	0.000800	M	Sm	<	0.000400				
M	Au	<	0.000810	M	Gd	<	0.000400	M	Ni	<	0.003600	M	Sn	<	0.003200				
O	B		0.004189	O	Ge	<	0.012000	M	Os	<	0.000810	O	Sr	<	0.000330				
M	Ba	<	0.002400	M	Hf	<	0.000400	O	P	<	0.022000	M	Ta	<	0.000800				
M	Be	<	0.000400	M	Hg	<	0.001700	M	Pb	<	0.002400	M	Tb	<	0.000400				
M	Bi	<	0.000400	M	Ho	<	0.000400	M	Pd	<	0.001200	M	Te	<	0.008000				
O	Ca		0.011259	O	In	<	0.013000	M	Pr	<	0.000400	M	Th	<	0.000400				
s	Cd	<		M	Ir	<	0.000410	M	Pt	<	0.000400	O	Ti		0.000602				
M	Ce	<	0.000400	O	K		0.005237	M	Rb	<	0.004400	M	Tl		0.000523				
M	Co	<	0.000400	M	La	<	0.000400	M	Re	<	0.000400	M	Tm	<	0.000400				
O	Cr	<	0.005100	O	Li	<	0.000054	M	Rh	<	0.000400	M	U	<	0.000400				
M	Cs	<	0.002400	M	Lu	<	0.000400	M	Ru	<	0.002500	M	V	<	0.002000				
O	Cu	<	0.004800	O	Mg		0.000288	O	S	<	0.022000	M	W	<	0.000400				
M	Dy	<	0.000400	O	Mn	<	0.000860	O	Sb	<	0.018000	M	Y	<	0.000400				
M	Er	<	0.000400	M	Mo	<	0.001600	O	Sc	<	0.000430	M	Yb	<	0.000400				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 112.41 +2 4 Cd2(OH) (aq)3+ and Cd(OH)(aq)

Chemical Compatibility -Stable in HCl, HNO3, H2SO4 , and HF. Avoid basic media forming insoluble carbonate and hydroxide.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO3 / LDPE container.

Cd Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (soluble in HCl or HNO3); Ores (dissolve in HCl /HNO3 then take to fumes with H2SO4. The silica and lead sulfate are filtered off after the addition of water); Organic based (dry ash at 450°C and dissolve ash in HCl), (sulfuric / peroxide acid digestion).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 111 amu	11 ppt	n/a	95Mo16O
ICP-OES 214.438 nm	0.003 / 0.0003 µg/mL	1	Pt, Ir
ICP-OES 226.502 nm	0.003 / 0.0003 µg/mL	1	Ir
ICP-OES 228.802 nm	0.003 / 0.0003 µg/mL	1	Co, Ir, As, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 01, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 01, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMN10
Lot Number:	S2-MN704240
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Manganese
Starting Material:	Mn Metal
Starting Material Lot#:	2275
Starting Material Purity:	99.9909%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10011 ± 30 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9989 ± 69 µg/mL**
ICP Assay NIST SRM 3132 Lot Number: 050429

Assay Method #2 **10011 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10024 ± 47 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001500	M	Eu	<	0.000730	O	Na		0.176097	M	Se	<	0.006600	M	Zn		0.009925
O	Al		0.004322	M	Fe	<	0.650000	M	Nb	<	0.000730	O	Si		0.097654	M	Zr	<	0.000730
M	As	<	0.008000	M	Ga		0.004322	M	Nd	<	0.001500	M	Sm	<	0.000730				
M	Au	<	0.000730	M	Gd	<	0.000730	M	Ni		0.024013	M	Sn	<	0.002200				
M	B		0.068838	M	Ge	<	0.004400	M	Os	<	0.000730	O	Sr		0.000928				
M	Ba	<	0.001500	M	Hf	<	0.000730	i	P	<		M	Ta	<	0.000730				
M	Be	<	0.000730	M	Hg	<	0.002200	M	Pb		0.007364	M	Tb	<	0.000730				
M	Bi	<	0.003000	M	Ho	<	0.000730	M	Pd	<	0.000730	M	Te	<	0.019000				
O	Ca		0.062434	M	In	<	0.003000	M	Pr	<	0.000730	M	Th	<	0.000730				
M	Cd	<	0.001500	M	Ir	<	0.000730	M	Pt	<	0.000730	O	Ti	<	0.006500				
M	Ce	<	0.007300	O	K		0.006403	M	Rb	<	0.006600	M	Tl	<	0.000730				
O	Co		0.014728	M	La	<	0.003000	M	Re	<	0.000730	M	Tm	<	0.000730				
O	Cr		0.272151	O	Li		0.000416	M	Rh	<	0.003000	M	U	<	0.001500				
M	Cs	<	0.000730	M	Lu	<	0.000730	M	Ru	<	0.004400	M	V	<	0.000730				
O	Cu		0.007684	O	Mg		0.320177	i	S	<		M	W	<	0.004400				
M	Dy	<	0.001500	s	Mn	<		M	Sb	<	0.021000	O	Y		0.001360				
M	Er	<	0.001500	M	Mo		0.010245	O	Sc	<	0.004100	M	Yb	<	0.000730				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 54.94 +2 6 $Mn(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4 ,HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO_3/LDPE container.

Mn Containing Samples (Preparation and Solution) -Metal (Soluble in dilute acids); Oxides (Soluble in dilute acids); Ores (Dissolve with HCl. If silica is present add HF and then fume off silica by adding H_2SO_4 and heat to SO_3 fumes - dense white fumes).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 55 amu	10 ppt	n/a	40Ar14N1H,39K16O,37Cl18O,40Ar15N,38Ar17O,36Ar18O1H ,38Ar16O1H,37Cl17O1H,23Na32S
ICP-OES 257.610 nm	0.0014 / 0.00002 µg/mL	1	Ce, W, Re
ICP-OES 259.373 nm	0.0016 / 0.00002 µg/mL	1	U, Ta, Mo, Fe, Nb
ICP-OES 260.569 nm	0.0021 / 0.00002 µg/mL	1	Co

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 17, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSB10
Lot Number:	R2-SB688559
Matrix:	3% (v/v) HNO3 3% (w/v) tartaric acid
Value / Analyte(s):	10 000 µg/mL ea: Antimony
Starting Material:	Antimony Metal
Starting Material Lot#:	1857
Starting Material Purity:	99.9894%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10003 ± 47 µg/mL

Density: 1.061 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10003 ± 41 µg/mL**
ICP Assay NIST SRM 3102a Lot Number: 140911

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000200	M	Eu	<	0.000300	O	Na		0.140000	M	Se	<	0.007300	O	Zn		0.005000
M	Al		0.003200	O	Fe		0.060000	M	Nb	<	0.000100	O	Si		0.150000	O	Zr	<	0.006300
M	As	<	0.004400	M	Ga	<	0.000400	M	Nd	<	0.000100	M	Sm	<	0.000100				
M	Au	<	0.000210	M	Gd	<	0.000100	O	Ni		0.004800	M	Sn	<	0.001800				
M	B	<	0.011000	M	Ge	<	0.000600	M	Os	<	0.000110	O	Sr		0.000750				
O	Ba	<	0.004900	M	Hf	<	0.000100	O	P		0.540000	M	Ta		0.003300				
M	Be	<	0.000400	M	Hg	<	0.000110	M	Pb	<	0.000400	M	Tb	<	0.000100				
M	Bi	<	0.000200	M	Ho	<	0.000100	M	Pd	<	0.000210	M	Te	<	0.000600				
O	Ca		0.110000	M	In	<	0.000100	M	Pr	<	0.001600	M	Th	<	0.000100				
M	Cd	<	0.000200	M	Ir	<	0.000110	M	Pt	<	0.000600	M	Ti	<	0.002800				
M	Ce		0.006500	O	K		0.020000	M	Rb	<	0.001000	M	Tl	<	0.000100				
M	Co	<	0.000200	O	La	<	0.016000	M	Re	<	0.000100	M	Tm	<	0.000100				
M	Cr		0.006900	O	Li	<	0.000430	M	Rh	<	0.000300	M	U	<	0.000100				
M	Cs	<	0.000200	M	Lu	<	0.000100	M	Ru	<	0.000310	M	V	<	0.000800				
M	Cu	<	0.000600	O	Mg		0.021000	n	S	<		M	W	<	0.000200				
M	Dy	<	0.000100	O	Mn		0.001900	s	Sb	<		M	Y	<	0.000100				
M	Er	<	0.000100	M	Mo	<	0.000500	O	Sc	<	0.002300	M	Yb	<	0.000100				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 121.75 +3 6 Sb(O)C4H4O6-1

Chemical Compatibility -Stable in conc. HCl, dilute or conc. HF. Stable in dilute HNO3 as the fluoride or tartrate complex. Avoid basic media. Stable with most metals and inorganic anions in acidic media as the tartrate provided the acidity is not too high or the acid is oxidizing causing loss of the stabilizing tartrate ion. The fluoride complex of antimony is stable in strong acid but you should only mix with other metals that are fluorinated.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-2% HNO3 / LDPE container.

Sb Containing Samples (Preparation and Solution) -Metal and alloys (Soluble in H2O / HF / HNO3 mixture); Oxides (Soluble in HCl and tartaric acid or H2O / HF / HNO3 mixtures); Ores (fusion with Na2CO3 in Pt0 followed by dissolving the fuseate in a H2O / HF / HNO3 mixture); Organic based (sulfuric acid / hydrogen peroxide digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 121 amu	5 ppt	N/A	105Pd16O, 89Y16O2
ICP-OES 206.833 nm	0.03/0.003 µg/mL	1	Ta, Cr, Ge, Hf
ICP-OES 217.581 nm	0.05/0.005 µg/mL	1	Nb, W, Re, Fe
ICP-OES 231.147 nm	0.06/0.006 µg/mL	1	Ni, Co, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 30, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 30, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

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Certificate of Analysis

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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAS10
Lot Number:	T2-AS718260
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Arsenic
Starting Material:	As Metal
Starting Material Lot#:	2208
Starting Material Purity:	99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10060 ± 40 µg/mL

Density: 1.037 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10062 ± 46 µg/mL**
ICP Assay NIST SRM 3103a Lot Number: 100818

Assay Method #2 **10055 ± 76 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	< 0.003200	M	Eu	< 0.000530	O	Na	0.032544	M	Se	< 0.006300	O	Zn	0.001952			
M	Al	0.007593	O	Fe	0.001475	O	Nb	< 0.012000	O	Si	0.238658	O	Zr	< 0.004100			
s	As	<	M	Ga	< 0.000530	M	Nd	< 0.000530	M	Sm	< 0.000530						
M	Au	< 0.003100	M	Gd	< 0.000530	M	Ni	< 0.002100	M	Sn	< 0.000530						
M	B	0.026035	M	Ge	< 0.001600	M	Os	< 0.000520	M	Sr	< 0.000530						
M	Ba	< 0.000530	M	Hf	< 0.000530	O	P	< 0.043000	M	Ta	< 0.000530						
O	Be	< 0.000360	M	Hg	< 0.001600	M	Pb	< 0.002100	M	Tb	< 0.000530						
M	Bi	< 0.000530	M	Ho	< 0.000530	M	Pd	< 0.001100	M	Te	< 0.004700						
O	Ca	0.004339	M	In	< 0.023000	M	Pr	< 0.005300	M	Th	< 0.000530						
M	Cd	< 0.001100	M	Ir	< 0.000520	M	Pt	< 0.000530	O	Ti	< 0.002300						
M	Ce	< 0.000530	O	K	0.002061	M	Rb	< 0.000530	M	Tl	< 0.000530						
M	Co	< 0.000530	M	La	< 0.001100	M	Re	< 0.000530	M	Tm	< 0.000530						
O	Cr	< 0.001800	O	Li	< 0.000120	M	Rh	< 0.000530	M	U	< 0.000530						
M	Cs	< 0.005300	M	Lu	< 0.000530	M	Ru	< 0.000520	M	V	< 0.002700						
M	Cu	< 0.001600	O	Mg	0.000154	O	S	0.028205	M	W	< 0.012000						
M	Dy	< 0.000530	O	Mn	0.000154	M	Sb	< 0.000530	M	Y	< 0.000530						
M	Er	< 0.000530	M	Mo	< 0.000530	O	Sc	< 0.001700	M	Yb	< 0.000530						

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 74.92 ; mix of +3 and +5 ; 6 ; H3AsO4 and HAsO2

Chemical Compatibility - Arsenic has no cationic chemistry. It is soluble in HCl, HNO3,H3PO4, H2SO4 and HF aqueous matrices water and NH4OH . It is stable with most inorganic anions (forms arsenate when boiled with chromate) but many cationic metals form the insoluble arsenates under pH neutral conditions. When fluorinated and / or under acidic conditions arsenate formation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO3 / LDPE container.

As Containing Samples (Preparation and Solution) - Metal (soluble in 1:1 H2O / HNO3); Oxides (the oxide exists in crystalline and amorphous forms where the amorphic form is more water soluble. The oxides typically dissolve in dilute acidic solutions when boiled); Minerals (one gram of powered sample is fused in a Ni crucible with 10 grams of a 1:1 mix of K2CO3 and KNO3 and the melt extracted with hot water); Organic Matrices (0.2 to 0.5 grams of sample are fused with 15 grams of a 1:1 Na2CO3 / Na2O2 mix in a Ni crucible. The fuseate is extracted with water and acidified with HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 75 amu	20 ppt	N/A	40Ar35Cl, 59Co16O, 36Ar38Ar1H,8Ar37Cl,Ar39K, 150Nd2+,150Sm2+
ICP-OES 189.042 nm	0.05/0.005 µg/mL	1	Cr
ICP-OES 193.696 nm	0.1/0.01 µg/mL	1	V, Ge
ICP-OES 228.812 nm	0.1/0.01 µg/mL	1	Cd, Pt, Ir, Co

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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300 Technology Drive
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGBA10
Lot Number:	R2-BA692576
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Barium
Starting Material:	Barium Nitrate
Starting Material Lot#:	1969
Starting Material Purity:	99.9982%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL

Density: 1.025 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1	**10018 ± 50 µg/mL** ICP Assay NIST SRM 3104a Lot Number: 140909
Assay Method #2	**10023 ± 31 µg/mL** Gravimetric NIST SRM Lot Number: See Sec. 4.2
Assay Method #3	**10023 ± 30 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000410	O	Eu	<	0.005200	O	Na		0.004610	M	Se	<	0.003700	O	Zn		0.000658
M	Al	<	0.003100	O	Fe		0.015707	M	Nb	<	0.000210	O	Si		0.005573	M	Zr	<	0.001300
M	As	<	0.001300	M	Ga	<	0.000210	M	Nd	<	0.000210	O	Sm	<	0.021000				
M	Au	<	0.001300	M	Gd	<	0.000210	M	Ni	<	0.000810	M	Sn	<	0.000410				
O	B	<	0.005200	M	Ge	<	0.002500	M	Os	<	0.000410	O	Sr		0.003850				
s	Ba	<		M	Hf	<	0.000810	O	P	<	0.026000	M	Ta	<	0.000410				
O	Be	<	0.000320	M	Hg	<	0.000210	M	Pb	<	0.002300	M	Tb	<	0.000210				
M	Bi	<	0.000210	M	Ho	<	0.000210	M	Pd	<	0.000210	M	Te	<	0.001900				
O	Ca		0.007093	M	In	<	0.000210	M	Pr	<	0.000210	M	Th	<	0.000210				
M	Cd	<	0.000210	M	Ir	<	0.000210	M	Pt	<	0.000210	M	Ti	<	0.002100				
M	Ce	<	0.001300	O	K		0.035467	M	Rb	<	0.002100	M	Tl	<	0.000210				
M	Co	<	0.000410	O	La	<	0.005200	M	Re	<	0.000210	M	Tm	<	0.000410				
M	Cr	<	0.001700	O	Li	<	0.000630	M	Rh	<	0.000210	M	U	<	0.000210				
M	Cs	<	0.003300	M	Lu	<	0.001700	M	Ru	<	0.000210	O	V	<	0.005200				
M	Cu	<	0.001300	O	Mg		0.000861	O	S		0.268539	M	W	<	0.000410				
M	Dy	<	0.000210	M	Mn	<	0.000410	M	Sb	<	0.001300	O	Y	<	0.005200				
M	Er	<	0.001300	M	Mo	<	0.000410	M	Sc	<	0.000410	M	Yb	<	0.001300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 137.33 +2 6 $Ba(H_2O)_6^{+2}$
Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, iodate, molybdate, sulfite and tungstate in neutral aqueous media.
Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1 -10,000 ppm solutions chemically stable for years in 1-3.5% HNO_3 / LDPE container.
Ba Containing Samples (Preparation and Solution) -Metal(is best dissolved in diluted HNO_3); Ores(Carbonate fusion in Pt0 followed by HCl dissolution. If sulfate is present dissolve the fuseate using HCl / tartaric acid to prevent $BaSO_4$ precipitate); Organic Matrices (dry ash and dissolve in dilute HCl.)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 138 amu	1 ppt	N/A	122Sn16O, 122Te16O
ICP-OES 230.424 nm	0.004/0.0005 µg/mL	1	Mo, Ir, Co
ICP-OES 233.527 nm	0.004/0.0003 µg/mL	1	
ICP-OES 455.403 nm	0.002/0.0001 µg/mL	1	Zr, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 11, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 11, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGBE10
Lot Number:	R2-BE692992
Matrix:	6% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Beryllium
Starting Material:	Beryllium Acetate
Starting Material Lot#:	2281
Starting Material Purity:	99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10032 ± 41 µg/mL

Density: 1.128 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10042 ± 67 µg/mL**
ICP Assay NIST SRM 3105a Lot Number: 090514

Assay Method #2 **10025 ± 51 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001100	M	Eu	<	0.000270	O	Na		0.040962	M	Se	<	0.005000	M	Zn		0.013054
O	Al		0.016205	O	Fe		0.015754	M	Nb	<	0.000270	O	Si		0.024307	O	Zr	<	0.001900
M	As	<	0.002900	M	Ga	<	0.000270	M	Nd	<	0.000270	M	Sm	<	0.000270				
M	Au	<	0.000520	M	Gd	<	0.000270	M	Ni	<	0.003700	M	Sn	<	0.000790				
M	B	<	0.091000	M	Ge	<	0.000270	M	Os	<	0.000260	M	Sr		0.000630				
M	Ba		0.002700	M	Hf	<	0.000270	O	P	<	0.066000	M	Ta	<	0.000270				
s	Be	<		M	Hg	<	0.000520	M	Pb	<	0.000270	M	Tb	<	0.000270				
M	Bi	<	0.000530	M	Ho	<	0.000270	M	Pd	<	0.000520	M	Te	<	0.003700				
O	Ca		0.072022	M	In	<	0.000790	M	Pr	<	0.000270	M	Th	<	0.000270				
M	Cd	<	0.000790	M	Ir	<	0.000260	M	Pt	<	0.000270	O	Ti	<	0.000400				
M	Ce	<	0.000270	O	K		0.045014	M	Rb	<	0.000270	M	Tl	<	0.000790				
O	Co	<	0.003200	M	La	<	0.000270	M	Re	<	0.000270	M	Tm	<	0.000270				
O	Cr	<	0.001800	O	Li	<	0.000660	M	Rh	<	0.001100	M	U	<	0.000270				
M	Cs		0.001440	M	Lu	<	0.000270	M	Ru	<	0.000260	M	V	<	0.000790				
M	Cu	<	0.002100	O	Mg		0.016205	i	S	<		M	W	<	0.000530				
M	Dy	<	0.000270	M	Mn		0.001215	M	Sb	<	0.000270	M	Y	<	0.000270				
M	Er	<	0.000270	M	Mo	<	0.000530	O	Sc	<	0.000930	M	Yb	<	0.000270				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 9.01 +2 4 $Be(H_2O)_4^{+2}$

Chemical Compatibility -Soluble in HCl, HNO_3, H_2SO_4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1 % HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 5-10 % HNO_3 / LDPE container.

Be Containing Samples (Preparation and Solution) - Meta l(is best dissolved in diluted H_2SO_4); BeO (boiling nitric, hydrochloric, or sulfuric acids or KHSO4 fusion); Ores (H_2SO_4/HF digestion or carbonate fusion in Pt0); Organic Matrices (sulfuric/peroxide digestion or nitric/sulfuric/perchloric acid decomposition, or dry ash and dissolution according to the BeO procedure above).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 9 amu	4 ppt	N/A	
ICP-OES 234.861 nm	0.0003/0.00016 µg/mL	1	Fe, Ta, Mo
ICP-OES 313.042 nm	0.0003/0.00009 µg/mL	1	V, Ce, U
ICP-OES 313.107 nm	0.0007/0.0005 µg/mL	1	Ce, Th, Tm

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION, PERIOD OF VALIDITY AND REVISION HISTORY

11.1 Certification Issue Date

May 13, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 13, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

11.4 Revision Status

- Revision 1 - Revised on Thursday, Jan 14, 2021 by utruong. Revision was made for the following reason: Modified Section 7 Chemical Form in Solution.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCO10
Lot Number:	R2-CO695285
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Cobalt
Starting Material:	Co Metal
Starting Material Lot#:	2326
Starting Material Purity:	99.9934%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10012 ± 31 µg/mL

Density: 1.056 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10031 ± 67 µg/mL**
ICP Assay NIST SRM 3113 Lot Number: 190630

Assay Method #2 **10019 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10000 ± 35 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	0.014660	M	Eu	<	0.000590	O	Na	0.007534	M	Se	<	0.019000	M	Zn	0.003461	
M	Al	< 0.024000	M	Fe	0.050905	M	Nb	<	0.000590	O	Si	0.075340	M	Zr	<	0.001200	
i	As	<	M	Ga	<	0.000590	M	Nd	<	0.000590	M	Sm	<	0.000590			
M	Au	< 0.004100	M	Gd	<	0.000590	O	Ni	0.427608	M	Sn	<	0.001200				
M	B	< 0.031000	M	Ge	<	0.003000	M	Os	<	0.000590	O	Sr	<	0.000260			
M	Ba	< 0.000590	M	Hf	<	0.000590	n	P	<		M	Ta	<	0.001200			
O	Be	< 0.001300	M	Hg	<	0.001800	M	Pb	0.003257	M	Tb	<	0.000590				
M	Bi	< 0.003000	M	Ho	<	0.000590	M	Pd	<	0.000590	M	Te	<	0.005300			
O	Ca	0.010588	M	In	<	0.001200	M	Pr	<	0.000590	M	Th	<	0.000590			
M	Cd	< 0.004700	M	Ir	<	0.001200	M	Pt	<	0.002400	M	Ti	<	0.014000			
M	Ce	< 0.000590	O	K	0.008144	M	Rb	<	0.000590	M	Tl	0.002647					
s	Co	<	M	La	<	0.000590	M	Re	<	0.000590	M	Tm	<	0.000590			
M	Cr	< 0.021000	O	Li	<	0.000130	M	Rh	<	0.000590	M	U	<	0.000590			
M	Cs	< 0.002400	M	Lu	<	0.000590	M	Ru	<	0.007100	O	V	<	0.000880			
M	Cu	0.189369	O	Mg	0.001893	n	S	<		M	W	<	0.000590				
M	Dy	< 0.000590	M	Mn	<	0.001800	M	Sb	<	0.003600	M	Y	<	0.000590			
M	Er	< 0.000590	M	Mo	<	0.002400	O	Sc	<	0.001600	M	Yb	<	0.000590			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.93 +2 6 $Co(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4 ,HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Co Containing Samples (Preparation and Solution) - Metal (soluble in HNO_3); Oxides (Soluble in HCl); Ores (dissolve in HCl / HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 59 amu	2 ppt	n/a	42Ca16O1H , 40Ar18O1H , 36Ar23Na, 43Ca16O, 24Mg35Cl
ICP-OES 228.616 nm	0.01/0.001 µg/mL	1	
ICP-OES 237.862 nm	0.01/0.002 µg/mL	1	W, Re, Al, Ta
ICP-OES 238.892 nm	0.01/0.002 µg/mL	1	Fe, W, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 04, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 04, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAG10
Lot Number:	S2-AG712977
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Silver
Starting Material:	Ag Shot
Starting Material Lot#:	2289
Starting Material Purity:	99.9951%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10051 ± 30 µg/mL

Density: 1.056 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10051 ± 52 µg/mL**
ICP Assay NIST SRM 3151 Lot Number: 160729

Assay Method #2 **10051 ± 19 µg/mL**
Volhard NIST SRM 999c Lot Number: 999c

Assay Method #3 **10049 ± 31 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

s	Ag	<		M	Eu	<	0.000260	O	Na		0.003811	M	Se	<	0.003900	O	Zn		0.048146
M	Al		0.002688	O	Fe		0.006419	M	Nb	<	0.000260	O	Si		0.005215	M	Zr	<	0.000260
M	As	<	0.001100	M	Ga	<	0.000260	M	Nd	<	0.000260	M	Sm	<	0.000260				
M	Au	<	0.000260	M	Gd	<	0.000260	O	Ni		0.001765	M	Sn		0.020060				
O	B	<	0.004300	M	Ge	<	0.002300	M	Os	<	0.001100	O	Sr	<	0.000110				
M	Ba	<	0.000520	M	Hf	<	0.000260	O	P	<	0.017000	M	Ta	<	0.000260				
O	Be	<	0.001100	M	Hg	<	0.000770	M	Pb	<	0.003600	M	Tb	<	0.000260				
M	Bi		0.004814	M	Ho	<	0.000260	M	Pd		0.044134	M	Te	<	0.009000				
O	Ca		0.005215	M	In		0.003691	M	Pr	<	0.000260	M	Th	<	0.000260				
M	Cd	<	0.000260	M	Ir	<	0.000520	M	Pt	<	0.001100	O	Ti	<	0.000440				
M	Ce	<	0.002100	O	K	<	0.008700	M	Rb	<	0.001100	M	Tl	<	0.004100				
O	Co	<	0.000330	M	La	<	0.000260	M	Re	<	0.000260	M	Tm	<	0.000260				
O	Cr	<	0.002500	O	Li	<	0.000110	M	Rh	<	0.000520	M	U	<	0.000260				
M	Cs	<	0.002600	M	Lu	<	0.000260	M	Ru	<	0.000260	M	V	<	0.000260				
O	Cu		0.357085	O	Mg		0.001203	O	S	<	0.017000	M	W	<	0.000260				
M	Dy	<	0.000260	O	Mn	<	0.000220	M	Sb	<	0.014000	M	Y	<	0.000260				
M	Er	<	0.000260	M	Mo	<	0.000260	O	Sc	<	0.000220	M	Yb	<	0.000260				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 107.87 +1 6 $Ag(H_2O)_6^+$

Chemical Compatibility -Stable in HNO_3, and HF. Avoid basic media. Ag forms more insoluble salts than any other metal. It also is subject to photochemical reduction to the metal in HCl media although 10 µg/mL solutions in 10% HCl [$AgCl_{x1-x}$] are commonly used in the analytical laboratory. The most common solubility problems exist with arsenate, arsenite , bromide, chloride, iodide, carbonate , chromate, cyanide, iodate, oxalate, oxide, sulfate, sulfide, tartrate, and thiocyanate in aqueous media. The addition of nitric acid renders many of these salts soluble.

Stability - 2-100 ppb levels stable for 75+ days when mixed with equivalent levels of all other elements including the precious metals (where chloride is present) when in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Ag Containing Samples (Preparation and Solution) -Metal (Soluble in HNO_3); Oxides (Soluble in HNO_3); Ores (Digestion with conc. HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 107 amu	1 ppt	N/A	91Zr16O
ICP-OES 243.779 nm	0.12/0.01 µg/mL	1	Mn, Th, Ni, Rh
ICP-OES 328.068 nm	0.007/0.0007 µg/mL	1	Ce, Rh, V
ICP-OES 338.289 nm	0.013/0.001 µg/mL	1	Ce, Cr, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCR(3)10
Lot Number:	S2-CR709784
Matrix:	10% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Chromium
Starting Material:	Cr Metal
Starting Material Lot#:	2328
Starting Material Purity:	99.9951%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10027 ± 41 µg/mL

Density: 1.072 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10027 ± 40 µg/mL**
ICP Assay NIST SRM 3112a Lot Number: 170630

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001700	M	Eu	<	0.003400	O	Na		0.090372	M	Se	<	0.012000	O	Zn	<	0.006100
M	Al		0.034916	O	Fe		0.246471	M	Nb	<	0.017000	n	Si	<		M	Zr	<	0.007800
M	As	<	0.028000	O	Ga	<	0.013000	M	Nd	<	0.013000	M	Sm	<	0.006900				
M	Au	<	0.001700	M	Gd	<	0.000560	M	Ni		0.016020	M	Sn		0.006983				
O	B	<	0.025000	O	Ge	<	0.014000	M	Os	<	0.000560	M	Sr		0.006367				
M	Ba	<	0.008900	M	Hf	<	0.000560	i	P	<		M	Ta	<	0.000560				
M	Be	<	0.013000	M	Hg	<	0.001700	M	Pb		0.010064	M	Tb	<	0.000560				
M	Bi	<	0.002300	M	Ho	<	0.000560	M	Pd	<	0.021000	M	Te	<	0.010000				
O	Ca		0.075995	M	In	<	0.000560	M	Pr	<	0.001700	M	Th	<	0.000560				
M	Cd	<	0.000560	M	Ir	<	0.000560	M	Pt	<	0.001200	O	Ti		0.013555				
M	Ce	<	0.001200	O	K		0.043132	i	Rb	<		M	Tl	<	0.000560				
M	Co	<	0.002600	M	La	<	0.001200	M	Re	<	0.001200	O	Tm	<	0.013000				
s	Cr	<		O	Li		0.000390	M	Rh	<	0.095000	M	U	<	0.000560				
M	Cs	<	0.007800	M	Lu	<	0.000560	M	Ru	<	0.087000	O	V		0.014993				
O	Cu		0.007599	O	Mg		0.000883	i	S	<		M	W	<	0.049000				
M	Dy	<	0.000560	M	Mn		0.008626	M	Sb	<	0.003400	M	Y	<	0.001700				
M	Er	<	0.019000	M	Mo	<	0.032000	M	Sc		0.003080	M	Yb	<	0.000560				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 52.00 +3 6 $Cr(H_2O)_6^{3+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4, HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Cr3 Containing Samples (Preparation and Solution) -Metal (soluble in HCl); Oxides/Ores (Chrome ore/oxides are very difficult to dissolve. The following procedures [A-D] are commonly used: A. Fusion with $KHSO_4$ and extraction with hot KCl. The residue fused with Na_2CO_3 and $KClO_3$, 3:1. B. Fusion with $NaKSO_4$ and NaF 2:1, C. Fusion with magnesia or lime and sodium or potassium carbonates, 4:1. D. Fusion with Na_2O_2 or NaOH and KNO_3 or NaOH and Na_2O_2. Nickel, iron, copper, or silver crucibles should be used for D. Platinum may be used for A, <, C); Organic Matrices (ash at 4500C followed by one of the fusion methods above or sulfuric/hydrogen peroxide acid digestions may be applicable to non oxide containing samples).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 52 amu	40 ppt	N/A	36S16O, 36Ar16O - The 50Cr, 53Cr, 54Cr lines suffer from many more potential interferences from sulfur, chlorine and argon compounds of oxygen, nitrogen and carbon.
ICP-OES 205.552 nm	0.006/0.0008 µg/mL	1	Os
ICP-OES 276.654 nm	0.01/0.001 µg/mL	1	Cu, Ta, V
ICP-OES 284.325 nm	0.008/0.0007 µg/mL	1	

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 26, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 26, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGNI10
Lot Number:	P2-NI686384
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Nickel
Starting Material:	Ni Metal
Starting Material Lot#:	2277 and 2282
Starting Material Purity:	99.9992%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9979 ± 30 µg/mL

Density: 1.038 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9971 ± 54 µg/mL**
ICP Assay NIST SRM 3136 Lot Number: 120619

Assay Method #2 **9970 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **9993 ± 33 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag		0.002606	M	Eu	<	0.001100	O	Na		0.004965	O	Se	<	0.067000	M	Zn		0.006578
M	Al	<	0.013000	O	Fe		0.018618	M	Nb	<	0.001100	O	Si		0.010923	M	Zr	<	0.001100
O	As	<	0.067000	M	Ga	<	0.001100	M	Nd	<	0.001100	M	Sm	<	0.001100				
M	Au	<	0.002100	M	Gd	<	0.001100	s	Ni	<		M	Sn	<	0.016000				
M	B	<	0.017000	M	Ge	<	0.004200	M	Os		0.002110	O	Sr	<	0.000940				
M	Ba	<	0.001100	M	Hf	<	0.001100	i	P	<		M	Ta	<	0.001100				
O	Be	<	0.000410	M	Hg		0.014895	M	Pb		0.006578	M	Tb	<	0.001100				
M	Bi	<	0.004200	M	Ho	<	0.001100	M	Pd	<	0.001100	M	Te	<	0.015000				
O	Ca		0.003351	M	In	<	0.001100	M	Pr	<	0.001100	M	Th	<	0.001100				
M	Cd		0.001365	M	Ir		0.004716	M	Pt	<	0.001100	M	Ti	<	0.004200				
M	Ce	<	0.001100	O	K		0.004716	M	Rb	<	0.001100	M	Tl	<	0.001100				
O	Co		0.017377	M	La	<	0.001100	M	Re		0.001737	M	Tm	<	0.001100				
O	Cr	<	0.006700	O	Li	<	0.000140	M	Rh	<	0.006300	M	U	<	0.001100				
M	Cs	<	0.007300	M	Lu	<	0.001100	M	Ru	<	0.019000	M	V	<	0.002100				
M	Cu		0.004096	O	Mg		0.000372	i	S	<		M	W	<	0.006300				
M	Dy	<	0.001100	O	Mn	<	0.001900	M	Sb		0.005833	O	Y	<	0.000540				
M	Er	<	0.001100	M	Mo	<	0.008400	M	Sc	<	0.002100	M	Yb	<	0.001100				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.69 +2 6 Ni(H2O)62+
Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
Ni Containing Samples (Preparation and Solution) -Metal (Soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 60 amu	100 ppt	n/a	43Ca16O1H , 44Ca16O, 23Na37Cl
ICP-OES 221.647 nm	0.01 / 0.0009 µg/mL	1	Si
ICP-OES 231.604 nm	0.02 / 0.002 µg/mL	1	Sb, Ta, Co
ICP-OES 232.003 nm	0.02 / 0.006 µg/mL	1	Cr, Re, Os, Nb, Ag, Pt, Fe

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 02, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 02, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

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Certificate of Analysis

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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGV10
Lot Number:	S2-V711005
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Vanadium
Starting Material:	Vanadium Pentoxide
Starting Material Lot#:	1782
Starting Material Purity:	99.9877%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10014 ± 30 µg/mL

Density: 1.104 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10017 ± 42 µg/mL**
ICP Assay NIST SRM 3165 Lot Number: 160906

Assay Method #2 **10013 ± 30 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000110	M	Eu	<	0.000110	O	Na		0.120000	M	Se	<	0.009400	M	Zn	0.009400
O	Al		0.120000	O	Fe		0.460000	M	Nb	<	0.001300	O	Si		0.270000	M	Zr	< 0.002900
M	As	<	0.000210	M	Ga	<	0.009300	M	Nd	<	0.000610	M	Sm	<	0.000110			
M	Au	<	0.004700	M	Gd	<	0.000110	M	Ni		0.012000	M	Sn		0.003900			
M	B		0.051000	M	Ge	<	0.000410	M	Os	<	0.000110	O	Sr		0.007100			
M	Ba		0.003600	M	Hf	<	0.000110	O	P	<	0.034000	M	Ta	<	0.000110			
O	Be	<	0.000560	M	Hg	<	0.000410	M	Pb		0.001400	M	Tb	<	0.000110			
M	Bi	<	0.000210	M	Ho	<	0.000110	M	Pd	<	0.000410	M	Te	<	0.000110			
O	Ca		0.730000	M	In	<	0.000110	M	Pr	<	0.000110	M	Th	<	0.000210			
M	Cd	<	0.000610	M	Ir	<	0.000110	M	Pt	<	0.000110	M	Ti		0.017000			
M	Ce	<	0.000610	M	K		0.052000	M	Rb	<	0.000310	M	Tl	<	0.000110			
M	Co	<	0.001300	M	La	<	0.000410	M	Re		0.001700	M	Tm	<	0.000110			
O	Cr		0.170000	M	Li	<	0.000810	M	Rh	<	0.000110	M	U	<	0.000410			
M	Cs		0.005600	M	Lu	<	0.000110	M	Ru	<	0.000110	s	V	<				
M	Cu	<	0.001300	M	Mg		0.053000	i	S	<		M	W		0.002000			
M	Dy	<	0.000110	M	Mn		0.007900	M	Sb		0.078000	M	Y	<	0.000110			
M	Er	<	0.000110	M	Mo		0.094000	M	Sc	<	0.000410	M	Yb	<	0.000110			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 50.94 +5 6 $H_2V_{10}O_{28}^{4-}$

Chemical Compatibility -Soluble in HCl, HNO_3, H_2SO_4, HF, H_3PO_4 and strong basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

V Containing Samples (Preparation and Solution) -Metal (Fusion with NaOH or KOH in Ni0 or Na_2CO_3 / KNO_3); Oxides (V_2O_3 - use HCl, V_2O_4 - use HCl or HNO_3, V_2O_5 - use concentrated acids); Ores (Na_2CO_3 / KNO_3 in Pt0 caution - nitrates attack Pto followed by water extraction of fuseate); Organic Matrices (Ash at 450 EC followed by dissolving according to V_2O_5 above) .

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 51 amu	4 ppt	N/A	34S16O1H, 35Cl16O, 38Ar13C, 36Ar15N, 36Ar14N1H, 37Cl14N,36S15N, 33S18O, 34S17O, 102Ru+2,02Pd+2
ICP-OES 290.882 nm	0.008 / 0.0008 µg/mL	1	Hf, Nb
ICP-OES 292.402 nm	0.006 / 0.001 µg/mL	1	Th
ICP-OES 309.311 nm	0.005 / 0.001 µg/mL	1	Mg, U, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

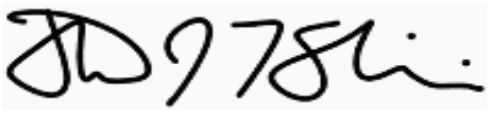
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAL10
Lot Number:	T2-AL716102
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Aluminum
Starting Material:	Aluminum Nitrate Nonahydrate
Starting Material Lot#:	2460
Starting Material Purity:	99.9938%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10049 ± 31 µg/mL

Density: 1.087 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1	**10059 ± 40 µg/mL** ICP Assay NIST SRM 3101a Lot Number: 140903
Assay Method #2	**10044 ± 26 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #3	**10049 ± 35 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002100	M	Eu	<	0.002100	O	Na		0.352819	M	Se	<	0.005200	M	Zn	0.006018
s	Al	<		O	Fe		0.074714	M	Nb	<	0.000520	O	Si		0.017848	O	Zr	0.004358
M	As		0.008716	O	Ga		0.112072	M	Nd	<	0.000520	M	Sm	<	0.000520			
M	Au	<	0.008400	M	Gd	<	0.001100	O	Ni	<	0.006000	M	Sn		0.000747			
O	B	<	0.014000	M	Ge	<	0.005200	M	Os	<	0.000650	O	Sr		0.000518			
O	Ba		0.012867	M	Hf	<	0.004100	n	P	<		M	Ta	<	0.000520			
O	Be	<	0.000270	M	Hg	<	0.002000	M	Pb		0.002282	M	Tb	<	0.000520			
M	Bi		0.001930	M	Ho	<	0.000520	M	Pd	<	0.000520	M	Te	<	0.001100			
O	Ca		0.076790	M	In	<	0.002100	M	Pr	<	0.000520	M	Th	<	0.000520			
M	Cd	<	0.000520	M	Ir	<	0.000650	M	Pt	<	0.000520	O	Ti		0.001930			
M	Ce	<	0.001100	O	K		0.043583	M	Rb	<	0.000520	M	Tl	<	0.000520			
O	Co	<	0.005400	M	La	<	0.002100	M	Re	<	0.000520	M	Tm	<	0.000520			
O	Cr		0.006018	O	Li		0.000112	M	Rh	<	0.000520	M	U	<	0.000520			
M	Cs		0.000643	M	Lu	<	0.000520	M	Ru	<	0.002000	M	V		0.001286			
O	Cu	<	0.008300	O	Mg		0.068488	i	S	<		M	W	<	0.009800			
M	Dy	<	0.002100	O	Mn		0.000913	M	Sb	<	0.003100	M	Y	<	0.001100			
M	Er	<	0.000520	M	Mo		0.005396	O	Sc	<	0.000950	M	Yb	<	0.000520			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 26.98 +3 6 Al(H2O)6+3
Chemical Compatibility -Soluble in HCl, HNO3, v F and v 2SO4. Avoid neutral media. Soluble in strongly basic NaOH forming the Al(OH)4(H2O)21- species. Stable with most metals and inorganic anions. The phosphate is insoluble in water and only slightly soluble in acid.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
Al Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO3); a- Al2O3 (Na2CO3 fusion in Pt0);
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 27 amu	30 ppt	N/A	12C15N, 13C14N, 1H12C14N, 11B16O, 54Cr2+, 54Fe2+
ICP-OES 167.078 nm	0.1/0.009 µg/mL	1	Fe
ICP-OES 394.401 nm	0.05/0.006 µg/mL	1	U, Ce
ICP-OES 396.152 nm	0.03/0.006 µg/mL	1	Mo, Zr, Ce

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 22, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 22, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

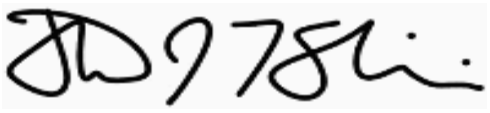
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGK10
Lot Number:	S2-K711973
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Potassium
Starting Material:	KNO3
Starting Material Lot#:	2313
Starting Material Purity:	99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9992 ± 30 µg/mL

Density: 1.024 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1	**9987 ± 24 µg/mL** Gravimetric NIST SRM Lot Number: See Sec. 4.2
Assay Method #2	**10004 ± 84 µg/mL** ICP Assay NIST SRM 3141a Lot Number: 140813
Assay Method #3	**10007 ± 45 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001400	M	Eu	<	0.000660	O	Na		0.246220	M	Se	<	0.007900	O	Zn		0.018056
O	Al		0.001592	O	Fe		0.005909	M	Nb	<	0.000660	O	Si		0.011490	O	Zr	<	0.001600
M	As	<	0.005300	M	Ga	<	0.000660	M	Nd	<	0.000660	M	Sm	<	0.000660				
M	Au	<	0.002000	M	Gd	<	0.000660	O	Ni	<	0.004900	M	Sn	<	0.000660				
O	B	<	0.005600	M	Ge	<	0.002000	M	Os	<	0.003300	O	Sr		0.000055				
O	Ba	<	0.000860	M	Hf	<	0.000660	O	P	<	0.032000	M	Ta	<	0.000660				
O	Be	<	0.000082	M	Hg	<	0.002000	M	Pb	<	0.002300	M	Tb	<	0.000660				
M	Bi	<	0.006600	M	Ho	<	0.000660	M	Pd	<	0.000660	M	Te	<	0.017000				
O	Ca		0.031187	M	In	<	0.000660	M	Pr	<	0.000660	M	Th	<	0.000660				
O	Cd	<	0.000450	M	Ir	<	0.000660	M	Pt	<	0.002700	M	Ti	<	0.000660				
M	Ce	<	0.000660	s	K	<		M	Rb		0.476026	M	Tl	<	0.000660				
O	Co	<	0.000780	M	La	<	0.000660	M	Re	<	0.000660	M	Tm	<	0.000660				
O	Cr		0.000541	O	Li	<	0.000084	M	Rh	<	0.000660	M	U	<	0.000660				
M	Cs	<	0.000660	M	Lu	<	0.000660	M	Ru	<	0.000660	O	V	<	0.001100				
M	Cu	<	0.002700	O	Mg		0.006237	O	S		0.027905	M	W	<	0.000660				
M	Dy	<	0.000660	O	Mn		0.000476	M	Sb	<	0.000660	M	Y	<	0.000660				
M	Er	<	0.000660	M	Mo	<	0.000660	O	Sc	<	0.000340	O	Yb	<	0.000270				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 39.10 +1 (6) K+(aq)
Chemical Compatibility -Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Avoid use of HClO4 due to insolubility of the perchlorate. Stable with all metals and inorganic anions except ClO4-.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
K Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Sodium carbonate fusion in Pt0 followed by HCl dissolution-blank levels of K in sodium carbonate critical); Organic Matrices (Sulfuric/peroxide digestion)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 39 amu	10 ppt	n/a	38ArH, 23Na16O, 78Se
ICP-OES 404.721 nm	1.1 / 0.05 µg/mL	1	U, Ce
ICP-OES 766.490 nm	0.4 / 0.001 µg/mL	1	2nd order radiation from R.E.s on some optical designs
ICP-OES 771.531 nm	1.0 / 0.03 µg/mL	1	2nd order radiation from R.E.s on some optical designs

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 10, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 10, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

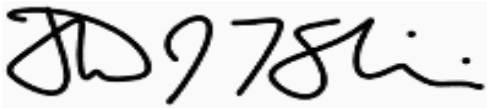
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMG10
Lot Number:	S2-MG704239
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Magnesium
Starting Material:	Magnesium Metal
Starting Material Lot#:	2168
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10053 ± 30 µg/mL

Density: 1.053 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10022 ± 62 µg/mL**
ICP Assay NIST SRM 3131a Lot Number: 140110

Assay Method #2 **10078 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10033 ± 26 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.002106	M	Eu	<	0.000910	O	Na		0.071075	O	Se	<	0.048000	O	Zn		0.003299
M	Al		0.003553	M	Fe		0.002538	M	Nb	<	0.000460	O	Si	<	0.032000	O	Zr	<	0.002700
M	As	<	0.001400	M	Ga	<	0.000460	M	Nd	<	0.000910	M	Sm	<	0.000460				
M	Au	<	0.001400	M	Gd	<	0.000460	O	Ni	<	0.001600	M	Sn	<	0.002300				
O	B		0.006853	M	Ge	<	0.001400	M	Os	<	0.000460	O	Sr		0.000279				
O	Ba		0.000964	M	Hf	<	0.000460	O	P		0.015230	M	Ta	<	0.000460				
O	Be	<	0.000120	M	Hg	<	0.000460	M	Pb	<	0.000460	M	Tb	<	0.000460				
M	Bi	<	0.000460	M	Ho	<	0.000460	M	Pd	<	0.003200	M	Te	<	0.007300				
O	Ca		0.053306	M	In	<	0.000460	M	Pr	<	0.000460	M	Th	<	0.000460				
O	Cd	<	0.000360	M	Ir	<	0.000460	M	Pt	<	0.001900	O	Ti	<	0.001700				
M	Ce	<	0.002300	M	K		0.048229	M	Rb		0.002411	M	Tl		0.003046				
M	Co	<	0.000910	M	La	<	0.002800	M	Re	<	0.000460	M	Tm	<	0.000460				
M	Cr	<	0.002300	O	Li		0.027922	M	Rh	<	0.000460	M	U	<	0.000460				
M	Cs		0.001040	M	Lu	<	0.000460	M	Ru	<	0.000460	M	V	<	0.000460				
O	Cu	<	0.003000	s	Mg	<		O	S	<	0.190000	M	W	<	0.000460				
M	Dy	<	0.000460	O	Mn		0.015230	M	Sb		0.020814	O	Y	<	0.000720				
M	Er	<	0.000460	M	Mo	<	0.000910	O	Sc	<	0.000480	M	Yb	<	0.000460				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 24.31 +2 6 Mg(H2O)6+2
Chemical Compatibility -Soluble in HCl, HNO3, and H2SO4 avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicates, carbonates, hydroxides, oxides, and tungstates in neutral and slightly acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO3 / LDPE container.
Mg Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO3); Oxide (Readily soluble in above compatible aqueous acidic solutions); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric / peroxide digestion or nitric / sulfuric / perchloric acid decomposition, or dry ash and dissolution in dilute HCl).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 24 amu	42 ppt	n/a	7Li17O, 48Ti+2 , 48Ca+2
ICP-OES 279.553 nm	0.0002 / 0.00003 µg/mL	1	Th
ICP-OES 280.270 nm	0.0003 / 0.00005 µg/mL	1	U, V
ICP-OES 285.213 nm	0.002 / 0.00003 µg/mL	1	U, Hf, Cr, Zr

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 23, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 23, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCA10
Lot Number:	T2-CA716103
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Calcium
Starting Material:	CaCO3
Starting Material Lot#:	2472
Starting Material Purity:	99.9950%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10005 ± 30 µg/mL

Density: 1.039 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10005 ± 45 µg/mL**
ICP Assay NIST SRM 3109a Lot Number: 130213

Assay Method #2 **10005 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10005 ± 31 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001200	M	Eu	<	0.001200	O	Na		0.006112	M	Se	<	0.024000	M	Zn		0.005362
M	Al		0.065419	O	Fe		0.009115	M	Nb	<	0.001200	O	Si		0.139417	O	Zr	<	0.006700
O	As	<	0.013000	M	Ga	<	0.015000	M	Nd	<	0.020000	M	Sm	<	0.001200				
M	Au	<	0.017000	M	Gd	<	0.004800	O	Ni		0.000793	M	Sn	<	0.003600				
O	B		0.001179	M	Ge	<	0.003600	M	Os	<	0.001200	M	Sr		0.081505				
O	Ba		0.002788	M	Hf	<	0.001200	O	P	<	0.041000	M	Ta	<	0.001200				
O	Be	<	0.000410	M	Hg	<	0.004800	M	Pb		0.001608	M	Tb	<	0.001200				
M	Bi		0.001608	M	Ho	<	0.001200	M	Pd	<	0.001200	M	Te	<	0.003600				
s	Ca	<		M	In	<	0.001200	M	Pr		0.000257	M	Th	<	0.001200				
O	Cd	<	0.001300	M	Ir	<	0.001200	M	Pt	<	0.003600	O	Ti	<	0.001900				
M	Ce		0.001029	O	K		0.009759	M	Rb	<	0.001200	M	Tl	<	0.001200				
O	Co		0.000418	M	La		0.001823	M	Re	<	0.001200	M	Tm	<	0.001200				
O	Cr		0.003324	O	Li	<	0.007300	M	Rh	<	0.001200	M	U		0.002144				
M	Cs		0.007399	M	Lu		0.000128	M	Ru	<	0.001200	M	V		0.001286				
O	Cu	<	0.011000	M	Mg		1.286934	O	S		0.055767	O	W	<	0.024000				
M	Dy	<	0.002400	O	Mn		0.004611	M	Sb	<	0.009600	O	Y		0.000536				
M	Er	<	0.002400	M	Mo		0.003539	O	Sc	<	0.001400	M	Yb	<	0.001200				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 40.08 +2 6 Ca(H2O)6+2
Chemical Compatibility - Soluble in HCl and HNO3. Avoid H2SO4, vF, v3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, and tungstate in neutral aqueous media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO3 / LDPE container.
Ca Containing Samples)Preparation and Solution) -Metal (best dissolved in diluted HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (dry ash and dissolution in dilute HCl. Do not heat when dissolving to avoid precipitation of SiO2). The oxide, hydroxide, carbonate, phosphate, and fluoride of calcium are soluble in % levels of HCl or HNO3. The sulfates (gypsum, anhydrite, etc.), certain silicates, and complex compounds require fusion with Na2CO3 followed by HCl / water dissolution. Note that contamination is a very real problem when analyzing for trace levels.
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 44 amu	1200 ppt	n/a	16O212C, 28Si16O, 88Sr
ICP-OES 393.366 nm	0.0002 / 0.00004 µg/mL	1	U, Ce
ICP-OES 396.847 nm	0.0005 / 0.00006 µg/mL	1	Th
ICP-OES 422.673 nm	0.01 / 0.001 µg/mL	1	Ge

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 14, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 14, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

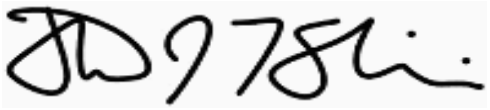
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGNA10
Lot Number:	T2-NA717221
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Sodium
Starting Material:	Na2CO3
Starting Material Lot#:	2358 and 2453
Starting Material Purity:	99.9977%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9977 ± 30 µg/mL

Density: 1.033 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9974 ± 18 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

Assay Method #2 **9977 ± 34 µg/mL**
ICP Assay NIST SRM 3152a Lot Number: 200413

Assay Method #3 **9987 ± 31 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000930	M	Eu	<	0.000930	s	Na	<		M	Se	<	0.003800	O	Zn		0.000138
M	Al		0.004409	O	Fe		0.002393	M	Nb	<	0.000930	O	Si		0.056696	O	Zr	<	0.003200
O	As	<	0.023000	M	Ga	<	0.000930	M	Nd	<	0.000930	M	Sm	<	0.000930				
O	Au	<	0.004100	M	Gd	<	0.000930	O	Ni	<	0.003000	M	Sn	<	0.002800				
O	B		0.001385	M	Ge	<	0.004700	M	Os	<	0.000930	O	Sr		0.000251				
M	Ba		0.004031	M	Hf	<	0.000930	O	P		0.010205	M	Ta	<	0.000930				
O	Be	<	0.000130	M	Hg	<	0.000930	M	Pb	<	0.000930	M	Tb	<	0.000930				
M	Bi	<	0.000930	M	Ho	<	0.000930	M	Pd	<	0.000930	M	Te	<	0.001900				
O	Ca		0.176388	M	In	<	0.000930	M	Pr	<	0.000930	M	Th		0.000352				
O	Cd	<	0.000860	M	Ir	<	0.000930	M	Pt	<	0.000930	O	Ti		0.000592				
M	Ce	<	0.001900	O	K		0.302380	M	Rb	<	0.000930	M	Tl	<	0.000930				
O	Co	<	0.001800	O	La	<	0.002100	M	Re	<	0.000930	M	Tm	<	0.000930				
M	Cr	<	0.002800	O	Li		0.000031	M	Rh	<	0.000930	M	U	<	0.000930				
M	Cs	<	0.000930	M	Lu	<	0.000930	M	Ru	<	0.001900	O	V	<	0.001600				
O	Cu	<	0.003900	O	Mg		0.026458	O	S		0.040317	O	W	<	0.028000				
M	Dy	<	0.000930	O	Mn	<	0.000740	M	Sb	<	0.000930	O	Y	<	0.000860				
M	Er	<	0.000930	O	Mo	<	0.003600	O	Sc	<	0.000610	O	Yb	<	0.000250				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 22.99 +1 (6) Na+(aq) largely ionic in nature

Chemical Compatibility -Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Na Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Lithium carbonate fusion in graphite crucible followed by HCl dissolution - blank levels of Na in lithium carbonate critical); Organic Matrices (Sulfuric / peroxide digestion or nitric/sulfuric/perchloric acid decomposition).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 23 amu	310 ppt	n/a	46Ti+2 , 46Ca+2
ICP-OES 330.237 nm	2.0 / 0.09 µg/mL	1	Pd, Zn
ICP-OES 588.995 nm	0.03 / 0.006 µg/mL	1	2nd order radiation from R.E.s on some optical designs
ICP-OES 589.595 nm	0.07 / 0.00009 µg/mL	1	2nd order radiation from R.E.s on some optical designs

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 20, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 20, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

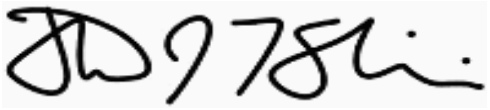
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGU1
Lot Number:	S2-U707914
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Uranium
Starting Material:	Uranyl Nitrate Hexahydrate
Starting Material Lot#:	P2-2322
Starting Material Purity:	99.9997%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 999 ± 5 µg/mL

Density: 1.010 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **998 ± 5 µg/mL**
ICP Assay NIST SRM 3164 Lot Number: 080521

Assay Method #2 **1001 ± 6 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000270	M	Eu	<	0.000270	M	Na	<	0.011000	M	Se	<	0.009300	M	Zn	0.002358
M	Al	<	0.011000	M	Fe		0.003222	M	Nb	<	0.000270	M	Si	<	0.160000	M	Zr	< 0.001100
M	As	<	0.002400	M	Ga	<	0.000270	M	Nd	<	0.000270	M	Sm	<	0.000270			
M	Au	<	0.000270	M	Gd	<	0.000270	M	Ni	<	0.020000	M	Sn	<	0.011000			
M	B	<	0.000270	M	Ge	<	0.000800	M	Os	<	0.001900	M	Sr	<	0.000270			
M	Ba	<	0.003800	M	Hf	<	0.000270	i	P	<		M	Ta	<	0.000270			
M	Be	<	0.000270	M	Hg	<	0.000540	M	Pb	<	0.002200	M	Tb	<	0.000270			
M	Bi	<	0.000270	M	Ho	<	0.000270	M	Pd	<	0.000540	M	Te	<	0.003800			
M	Ca	<	0.140000	M	In	<	0.000270	M	Pr	<	0.000270	M	Th		0.000129			
M	Cd	<	0.000270	M	Ir	<	0.000270	M	Pt	<	0.000270	M	Ti	<	0.002700			
M	Ce	<	0.000540	O	K	<	0.250000	M	Rb	<	0.000800	M	Tl	<	0.000270			
M	Co	<	0.000800	M	La		0.000117	M	Re	<	0.064000	M	Tm	<	0.000270			
M	Cr		0.000943	M	Li	<	0.003000	M	Rh	<	0.000270	s	U	<				
M	Cs		0.000106	M	Lu	<	0.000270	M	Ru	<	0.000540	M	V	<	0.000540			
M	Cu	<	0.001100	M	Mg	<	0.003000	i	S	<		M	W	<	0.000540			
M	Dy	<	0.000270	M	Mn	<	0.006900	M	Sb	<	0.000270	M	Y	<	0.000270			
M	Er	<	0.000270	M	Mo	<	0.006400	M	Sc	<	0.000540	M	Yb	<	0.000270			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 238.03 +6 8 UO22+(uranyl)
Chemical Compatibility - Soluble in HCl and HNO3. Avoid H3PO4. H2SO4 and HF matrices should not be a problem depending upon [U]. Although the UO22+ ion is distinctly basic, any U+4 will precipitate in basic media. UO22+salts are generally soluble in water and UO22+ is stable with most metals and inorganic anions. The uranyl phosphate is insoluble in water. UF4 and UF6 are water soluble.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
U Containing Samples (Preparation and Solution) -Metal (Dissolves rapidly in HCl and HNO3); Oxide (Soluble in HNO3); Ores (Digest for 1-2 hours with 1 gram of ore to 30 mL 1:1 HNO3. Silica insolubles are removed by filtration after bringing the sample to fumes with conc. H2SO4.)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 238 amu	2 ppt	N/A	206Pb16O2
ICP-OES 263.553 nm	0.3 / 0.01 µg/mL	1	Ce, Ir, Th, Rh, W, Zr, Ta, Ti, V, Hf, Fe, Re, Ru
ICP-OES 367.007 nm	0.3 / 0.02 µg/mL	1	Th, Ce
ICP-OES 385.958 nm	0.3 / 0.01 µg/mL	1	Th, Fe

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-ICVMS-2
Lot Number:	T2-MEB719895
Matrix:	3% (v/v) HNO3 tr. HF
Value / Analyte(s):	2.5 µg/mL ea: Molybdenum, Antimony

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**2.499 ± 0.015 µg/mL**	**Molybdenum, Mo**	**2.500 ± 0.017 µg/mL**

Density: 1.014 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	ICP Assay	3134	130418
Mo	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Sb	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

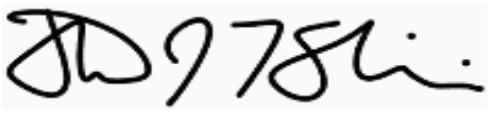
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-ICVMS-3
Lot Number:	T2-MEB719896
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	250 µg/mL ea:

Aluminum, Calcium,
Iron, Potassium,
Magnesium, Sodium,

4 µg/mL ea:
Selenium,

2.5 µg/mL ea:

Thorium, Thallium,
Uranium, Vanadium,
Zinc, Manganese,
Cadmium, Cobalt,
Chromium, Copper,
Arsenic, Barium,
Beryllium, Nickel,
Lead, Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	250.0 ± 0.9 µg/mL	Arsenic, As	2.500 ± 0.018 µg/mL
Barium, Ba	2.501 ± 0.013 µg/mL	Beryllium, Be	2.501 ± 0.015 µg/mL
Cadmium, Cd	2.501 ± 0.013 µg/mL	Calcium, Ca	250.0 ± 1.3 µg/mL
Chromium, Cr	2.500 ± 0.015 µg/mL	Cobalt, Co	2.500 ± 0.014 µg/mL
Copper, Cu	2.500 ± 0.014 µg/mL	Iron, Fe	250.0 ± 1.0 µg/mL
Lead, Pb	2.500 ± 0.013 µg/mL	Magnesium, Mg	250.0 ± 1.3 µg/mL
Manganese, Mn	2.500 ± 0.014 µg/mL	Nickel, Ni	2.500 ± 0.014 µg/mL
Potassium, K	250.0 ± 1.2 µg/mL	Selenium, Se	4.002 ± 0.024 µg/mL
Silver, Ag	2.501 ± 0.017 µg/mL	Sodium, Na	250.0 ± 1.2 µg/mL
Thallium, Tl	2.500 ± 0.017 µg/mL	Thorium, Th	2.499 ± 0.013 µg/mL
Uranium, U	2.501 ± 0.015 µg/mL	Vanadium, V	2.500 ± 0.014 µg/mL
Zinc, Zn	2.500 ± 0.014 µg/mL		

Density: 1.042 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Calculated		See Sec. 4.2
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Cu	Calculated		See Sec. 4.2
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Mn	Calculated		See Sec. 4.2
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Th	EDTA	928	928
Th	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
U	ICP Assay	3164	080521
U	Calculated		See Sec. 4.2

V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928
Zn	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

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Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

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$u_{char\ a}$ = the standard uncertainty of characterization Method A

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k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

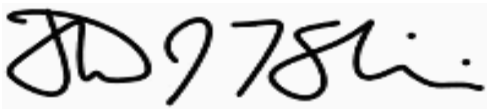
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-6020ICS-0A10
Lot Number:	T2-MEB719898
Matrix:	1.4% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Chloride,
	200 µg/mL ea: Carbon,
	100 µg/mL ea: Calcium, Aluminum, Iron, Potassium, Magnesium, Sodium, Phosphorus, Sulfur,
	2 µg/mL ea: Titanium, Molybdenum

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**100.0 ± 0.4 µg/mL**	**Calcium, Ca**	**100.0 ± 0.5 µg/mL**
Carbon, C	**200.1 ± 0.5 µg/mL**	**Chloride, Cl**	**1 000 ± 5 µg/mL**
Iron, Fe	**100.0 ± 0.5 µg/mL**	**Magnesium, Mg**	**100.0 ± 0.5 µg/mL**
Molybdenum, Mo	**2.001 ± 0.014 µg/mL**	**Phosphorus, P**	**100.0 ± 0.6 µg/mL**
Potassium, K	**100.0 ± 0.5 µg/mL**	**Sodium, Na**	**100.0 ± 0.5 µg/mL**
Sulfur, S	**100.0 ± 0.5 µg/mL**	**Titanium, Ti**	**2.001 ± 0.015 µg/mL**

Density: 1.009 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
C	Acidimetric	84L	84L
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cl	Acidimetric	84L	84L
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mo	ICP Assay	3134	130418
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
S	Acidimetric	84L	84L
S	ICP Assay	traceable to 3154	P2-S680745
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 07, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 07, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

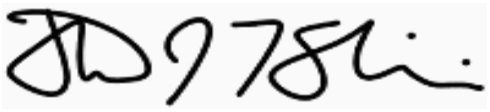
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

LDW23-SS1026

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-01 A	SDG:	23C0752
Sampled:	03/30/23 10:37	Prepared:	04/17/23 16:44	File ID:	XDT_m1230502-091
% Solids:	52.10	Preparation:	SWN EPA 3050B	Analyzed:	05/02/23 20:40
Batch:	BLD0365	Sequence:	SLE0043	Initial/Final:	1.061 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	GE00013

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	16.1	20	0.07	0.36	
7440-43-9	Cadmium	0.45	20	0.05	0.18	
7440-50-8	Copper	69.8	20	0.31	0.90	
7440-66-6	Zinc	131	20	5.3	10.9	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

LDW23-SS1125

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-02 A	SDG:	23C0752
Sampled:	03/30/23 11:10	Prepared:	04/17/23 16:44	File ID:	XDT_m1230502-092
% Solids:	49.27	Preparation:	SWN EPA 3050B	Analyzed:	05/02/23 20:44
Batch:	BLD0365	Sequence:	SLE0043	Initial/Final:	1.04 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	GE00013

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	10.2	20	0.07	0.39	
7440-43-9	Cadmium	0.35	20	0.06	0.20	
7440-50-8	Copper	64.8	20	0.34	0.98	
7440-66-6	Zinc	121	20	5.7	11.7	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

LDW23-SS1132

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-03 A	SDG:	23C0752
Sampled:	03/30/23 11:30	Prepared:	04/17/23 16:44	File ID:	XDT_m1230502-093
% Solids:	50.77	Preparation:	SWN EPA 3050B	Analyzed:	05/02/23 20:49
Batch:	BLD0365	Sequence:	SLE0043	Initial/Final:	1.05 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	GE00013

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	10.1	20	0.07	0.38	
7440-43-9	Cadmium	0.31	20	0.06	0.19	
7440-50-8	Copper	51.5	20	0.33	0.94	
7440-66-6	Zinc	112	20	5.5	11.3	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

LDW23-SS1810

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-04 A	SDG:	23C0752
Sampled:	03/30/23 10:36	Prepared:	04/17/23 16:44	File ID:	XDT_m1230502-094
% Solids:	52.64	Preparation:	SWN EPA 3050B	Analyzed:	05/02/23 20:53
Batch:	BLD0365	Sequence:	SLE0043	Initial/Final:	1.073 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	GE00013

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	13.7	20	0.07	0.35	
7440-43-9	Cadmium	0.35	20	0.05	0.18	
7440-50-8	Copper	70.8	20	0.31	0.89	
7440-66-6	Zinc	153	20	5.2	10.6	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

LDW23-SS1809

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-06 A	SDG:	23C0752
Sampled:	03/30/23 14:30	Prepared:	04/17/23 16:44	File ID:	XDT_m1230502-095
% Solids:	48.44	Preparation:	SWN EPA 3050B	Analyzed:	05/02/23 20:58
Batch:	BLD0365	Sequence:	SLE0043	Initial/Final:	1.027 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	GE00013

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	16.5	20	0.08	0.40	
7440-43-9	Cadmium	0.38	20	0.06	0.20	
7440-50-8	Copper	65.8	20	0.35	1.00	
7440-66-6	Zinc	134	20	5.9	12.1	

PREPARATION BATCH SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC SDG: 23C0752

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

Batch: BLD0365 Batch Matrix: Solid Preparation: SWN EPA 3050B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1026	23C0752-01	XDT_m1230502-091	04/17/23 16:44	
LDW23-SS1125	23C0752-02	XDT_m1230502-092	04/17/23 16:44	
LDW23-SS1132	23C0752-03	XDT_m1230502-093	04/17/23 16:44	
LDW23-SS1810	23C0752-04	XDT_m1230502-094	04/17/23 16:44	
LDW23-SS1809	23C0752-06	XDT_m1230502-095	04/17/23 16:44	
Blank	BLD0365-BLK1	XDT_m1230425-182	04/13/23 16:44	
LCS	BLD0365-BS1	XDT_m1230425-183	04/13/23 16:44	
LCS	BLD0365-BS2	XDT_m1230426-120	04/13/23 16:44	Added 4/27/2023 by MCB

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Digestion Log

Analyst: AR Date: 4/17/23 Time: 1215-1750 Balance ID: BAL10

Matrix: Soil Block ID: 3 Block Temp: 95°C Thermometer: 20-2

ARI Sample ID	Btl #	pH<2	Prep Code: SWN Initial Wt (g) Vol (mL)	Prep Code: SWN Final Vol (mL)	Prep Code: Initial Wt (g) Vol (mL)	Prep Code: Final Vol (mL)	Comments
23A295-08	A		1.037	50			
23C752-01			1.061				
-02			1.040				
-03			1.056				
-04			1.073				
-06			1.077				
23C774-01	B		1.058				
-02			1.073				
-03			1.077				
-04			1.031				
-05			1.000				
-06			1.040				
-07			1.047				
-08			1.056				
-09			1.080				
-10			1.038				
-11			1.070				
-12			1.043				
-13			1.043				
-14			1.058				
BLD3165-blk	—		—				23C774-01
-bs	—		—				
-dup	—		1.055				
-MS	—		1.055				
-MSD	—		1.056				
—	—	—	—	—	—	—	—

Chemical/Reagent ID:

HNO_3: L26078 1:1 HNO_3: L23365 HCl: — H_2O_2: K110560

Tube Lot#: 2210117 Boiling Chip Lot#: — (DoD Only)

Form I

METHOD BLANK DATA SHEET

EPA 6020B UCT-KED

Total Metals

Blank

Laboratory: Analytical Resources, LLC | SDG: 23C0752

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

Batch: BLD0365 | Laboratory ID: BLD0365-BLK1 | Prepared: 04/13/23 16:44

Matrix: Solid | Preparation: SWN EPA 3050B | Analyzed: 04/26/23 08:35

Sequence: SLD0370 | Calibration: GD00066 | Instrument: ICPMS1

CAS NO.	Analyte	Concentration (mg/kg wet)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic-75a	ND	20	0.04	0.20	U
7440-43-9	Cadmium-111	ND	20	0.03	0.10	U
7440-50-8	Copper-63	ND	20	0.17	0.50	U
7440-66-6	Zinc-66	ND	20	2.9	6.0	U

LCS / LCS DUPLICATE RECOVERY

EPA 6020B UCT-KED

Total Metals

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	04/26/23 08:40
Batch:	BLD0365	Laboratory ID:	BLD0365-BS1
Preparation:	SWN EPA 3050B	Sequence Name:	LCS
Initial/Final:	1 g / 50 mL		

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Arsenic-75a	25.0	24.8		99.2	80 - 120
Copper-63	25.0	27.4		110	80 - 120
Zinc-66	80.0	82.9		104	80 - 120

* Indicates values outside of QC limits

* Indicates values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 6020B UCT-KED

Total Metals

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	04/27/23 01:13
Batch:	BLD0365	Laboratory ID:	BLD0365-BS2
Preparation:	SWN EPA 3050B	Sequence Name:	LCS
Initial/Final:	1 g / 50 mL		

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Cadmium-111	25.0	24.0		96.0	80 - 120

* Indicates values outside of QC limits

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GD00066	Instrument:	ICPMS1
Calibration Date:	04/25/2023 17:12		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Silver-107	0	0	0.2	17655	10	19702.4	20	19006.1	50	17491.44	100	16923.58
Chromium-52	0	0	0.5	59484	10	24946.5	20	24307.75	50	21613.48	100	21235.22
Chromium-53	0	0	0.5	2936	10	2697.5	20	2702.7	50	2489.26	100	2398.36
Lead-208	0	0	0.1	49050	10	49166.5	20	49469.15	50	45013.4	100	43940.65

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory: Analytical Resources, LLC
Instrument: ICPMS1
Calibration: GD00066
Calibration Date: 4/25/2023

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Silver-107	15129.75	49.5	0.9992		0.998	
Chromium-52	25264.49	75.9	0.9995		0.998	
Chromium-53	2203.97	49.7	0.9992		0.998	
Lead-208	39439.95	49.4	0.9993		0.998	

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GD00066
Instrument: ICPMS1
Calibration Date: 04/25/2023 17:12

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Arsenic-75a	0	0	0.2	380	10	359.1	20	357.15	50	333.62	100	340.65
Cadmium-111	0	0	0.1	390	10	347.1	20	337.55	50	333.52	100	336.31
Cadmium-114	0	0	0.1	1130	10	897.2	20	864.75	50	848.26	100	863.55
Copper-63	0	0	0.5	5256	10	5235.9	20	5161	50	4708.78	100	4877.15
Copper-65	0	0	0.5	2688	10	2642.5	20	2575.3	50	2350.34	100	2378.82
Zinc-66	0	0	6	672.6667	10	681.4	20	691.5	50	625.9	100	638.99
Zinc-67	0	0	6	104.3333	10	116.8	20	119.4	50	101.22	100	103.41

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Instrument: ICPMS1
Calibration: GD00066
Calibration Date: 4/25/2023

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Arsenic-75a	295.0867	49.3	0.9997		0.998	
Cadmium-111	290.7467	49.5	1.0000		0.998	
Cadmium-114	767.2933	50.9	0.9999		0.998	
Copper-63	4206.472	49.3	0.9994		0.998	
Copper-65	2105.827	49.4	0.9996		0.998	
Zinc-66	551.7428	49.2	0.9996		0.998	
Zinc-67	90.86056	49.7	0.9987		0.998	

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 4/25/23 **Analyst:** MB **Sequence:** SLD037Φ **Cal:** GDΦΦΦ66

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
	✓	SEQ-CAL1			
		-CAL2			
		-CAL3			Se noisy
		-CAL4			
		-CAL5			Sc, Ni[62], Cd[111], Ag, Ba[135] sl. noisy
		-CAL6			Be noisy / Li, Sc group, Sb, Ba, Tb sl. noisy / VSI↑
		-IBL1			DD Cal. Blk
		SEQ-CAL1	L3725		
		-CAL2	L4627		Li, In sl. noisy - %R ↑Analytes OK
		-CAL3	L4628		Mo, Cd sl. noisy - int, R-Values + QC OK
		-CAL4	L4629		
		-CAL5	L4624		
		-CAL6	L4630		Li, Be, Sc group, In, Ba[137] sl. noisy - int, R-Values + QC OK
		-IBL1	—		
	✓	-ICV1	—		In[1], Cd, Mo noisy / sl. noisy
		-ICV1	L3575		
		-ICB1	L3725		In[1] sl. noisy - %R ↑Analytes OK
		-CCV1	L4624		
		-CCB1	L3725		
		-CRL1	L4627		
		-IFA1	L3578		V[-1], Cr[53]↑
		-IFB1	L3579		↓ / Li sl. noisy - %R ↑Analytes OK
		-HCV1	L3671		
		-HCV2	L3672		Li, Sc sl. noisy - %R ↑ Analytes OK

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 4/25/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-IBL2+3			
		↓ -CCV2			Mo, Cd114 sl. noisy - Values OK
		↓ -CCB2			Sc sl. noisy - %R + Analytes OK
		BLDΦ249-BLK3	REN		Tl only
		↓ -BS3	↓		↓
		BLDΦ644-BLK2			As, Be, Mo, Sb only
		↓ -BS2			↓
		230Φ5Φ9-Φ1			+ Ag
		BLDΦ644-DUP2			↓
		↓ -MS2			↓
		↓ -MSD2	↓		↓
		SEQ-IBL4			
		↓ -CCV3			Cu63, Zn66 sl. noisy - Values OK
		↓ -CCB3			Sc noisy / Li, In sl. noisy - %R + Analytes OK
		BLDΦ592-BLK2	REN		Li sl. noisy - %R + Analytes OK As, Be, Sb only
	✓	↓ -BS2			Li, Sc groups noisy / In, Tb groups sl. noisy
		BLDΦ660-BLK1			In sl. noisy - %R + Analytes OK / Mn↑ (1.358) - sample >10x
		↓ -BS1			
		BLDΦ592-BS2			As, Be, Sb only
		230Φ538-Φ1		5	Mn sl. noisy Mn NR
	✓	↓ -Φ1	↓	2	Li↑ / Mn noisy / Sc, Br, In, Tb sl. noisy
		SEQ-IBL5			
	✓	BLDΦ660-BLK1	REN		Mn↑
		SEQ-CCV4			Be sl. noisy - Value OK

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 4/25/23 **Analyst:** MB/SD **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted. MB 4/25/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCB4			
		BLD0181-BLK2	REN		Ag, Co, Pb, Sb, Tl, V only
		↓ -BS2	↓		↓
		BLD0559-BLK2			Sb, Se, Tl only
		↓ -BS2			↓
		23D0165-01			Tl only
		BLD0249-DUP4			↓
		↓ -MS4			
		23D0538-01RE1		10	Sc sl. noisy - %R Analytes OK / Mn >10X cont. / Mn only
		23D0397-01	↓	2	Li, In-1 sl. noisy - %R Analytes OK; Ag, As, Be, Cr, Mn Mo, Pb, Sb, Tl only
		SEQ-IBL6			
		-CCV5			Ba137↑ Int Ba137 sl. noisy
		-CCB5			
	✓	-CAL1			In-1 noisy - int OK
		-CCV6			Ba137↑ Li & Ni62 sl. noisy
		-CCB6			
		BLD0347-BLK1	REN		No Ba
		↓ -BS1	↓		Sc sl. noisy - %R Analytes OK / ↓
		BLD0232-BLK1			~~Ni~~ Ni >½ RL / Li, Sc sl. noisy - %R Analytes OK / ↑
		↓ -BS1			Cd, In noisy; No Ag, Cd, Ni, Sb
	✓	22C0648-02			Sc↑ not needed / Ge noisy
		↓ -01			↓ As only
C→D		23C0137-01D			Ge sl noisy - %R Analytes OK / Ag, As, Be, Pb Sb, Tl only
		BLD0592-DUP2	↓		↓ ↓

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 4/25/23 **Analyst:** SD/MS **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MS 4/25/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BLD0592-MS2	REN		Ag, As, Be, Pb, Sb, Tl only
		SEQ-IBL7			
		-CCV7			Li, Sc, In, Tb groups sl. noisy - %R & values OK
		-CCB7			Li & Sc noisy; Ge sl. noisy - %R & analytes OK
		23C0674-02	REN		As, Tl only
		-01		2	Ge group noisy Tl only
C→D		23D0358-01			Li↑ - Not Needed As, Cr, Pb only
		-02			↓
		-03			Sc group noisy As, Pb only
		23C0647-01		20	Cr only
C→D		23D0346-01			
		23C0714-01		10	
		SEQ-IBL8			(V-1, Cr-52↑)
		-IBL9			
		-CCV8			Be noisy - int. std. & value OK V-1 sl. noisy
		-CCB8			
		BLD01608-BK1	SWN	20	
		-BS1			In-1 noisy/ Cd sl. noisy No Cd
		23D0124-03	REN		Pb only
		23C0673-01	SWN	20	Sc↑ No Cr
		-02			
		23D0027-02			
		-01			
		BLD01608-DUP1			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 4/25/23 **Analyst:** SD **Sequence:** ~~_____~~ **Cal:** ~~_____~~

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BLD0168-MS1	SWN	20	
		SEQ-IBLA			
		-CCV9			Ba 137↑ - Not Needed
		-CCB9			
	✓	-CAL1			
		-CCVA			In noisy - %R of analytes OK Sl.
		-CCBA			Li, Sc, & Tb Sl. noisy - %R of analytes OK
		23D0235-01	REN		Mn↑ No Mn
		BLD0660-DUP1	↓		↓ ↓
		↓ -MS1	↓		↓ ↓
		SEQ-IBLB			
		23A0328-02	SWN	50	Cr only
		BLD0289-DUP2	↓	↓	↓
		-MS2	↓	↓	
		-MSD2	↓	↓	
		↓ -PS2	↓	↓	Low K7409 ↓
		SEQ-IBLC			
		-CCVB			Li & Sc Sl. noisy - %R of analytes OK Ba 137↑ - Not Needed
		↓ -CCBB			
		23C0512-01	REN		As, Pb, Se, Tl only
		-02	↓		↓
		-03	↓		
		-04	↓		
		↓ -05	↓		↓

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 4/25/23 **Analyst:** SD/MS **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23C0512-06	REN		Tl only
		BLD0067-DUP4	↓		↓
		↓ -MS4	↓		↓
		↓ -MSD4	↓		↓
		SEQ-IBLD			
		↓ -CCVC			Be, Mn, *Cd[111] sl. noisy - %R, int. std. %value OK
		↓ -CCBC			In sl. noisy - %R + analytes OK
		23C0678-02	REN	5	In sl noisy - %R + Analytes OK
		↓ -12	↓	↓	Li, Sc, Tb sl. noisy - %R + Analytes OK
		↓ -13	↓	↓	In sl. noisy - %R + Analytes OK
		↓ -18	↓	10	
		SEQ-IBLE			
		23C0678-01	REN	10	
		↓ -11	↓	↓	
		↓ -10	↓	20	
		↓ -17	↓	↓	
		SEQ-IBLF			
		↓ -CCVD			Ni[60] sl. noisy - Value OK
		↓ -CCBD			In sl. noisy - %R + analytes OK
		23D0085-01	REN		Pb > 10x BLK cont.
		23D0086-01	↓	20	↓
		23D0062-01	↓	↓	Re-prep for Pb — Pb NR
		↓ -03	↓	↓	↓
		↓ -05	↓	↓	↓

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 4/25/23 **Analyst:** SD/MS **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MS 4/25/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23D0062-07	REN		~~Pb NR~~ Re-prep for Pb — Pb NR
		BLD0472-DUP1	↓		↓
		-MS1			
		↓ -MSD1			
		SEQ-IBLG			
		-CCVE			Li+Sc groups sl. noisy - %R's values OK
		-CCBE			
	✓	-CAL1			
		-CCVF			
		↓ -CCBF			
		23C0658-02	REN		No Ba
		↓ -04	↓		↓
		23D0089-01			Pb Re-prep — Pb NR
		23D0441-01		2	
		↓ -02	↓	↓	
		23D0433-01			Li↑ - Not Needed
		-02			↓
		-03			
		↓ -04	↓	↓	
		SEQ-IBLH			
		-CCVG			Mo+Ba↑ +J1
		↓ -CCBG			
		BLD0365-BLK1	SWN	20	
		↓ -BS1	↓	↓	In↑ noisy — No Cd

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 4/25/23 **Analyst:** SD/MS **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MSU 4/25/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23C0735-01	REN	10	No Ba, Tl
		23C0658-06	↓	↓	No Ba ↓
		23C0678-09	↓	↓	No Tl
		↓ -08	↓	↓	↓
		23C0732-01	↓	↓	Li, Sc sl. noisy - %R of Analytes OK
		23C0741-01	↓	↓	↓
		23C0699-02	↓	↓	No Mo
		SEQ-IBL1	↓	↓	↓
		↓ -CCV1	↓	↓	Li & Ba137 sl. noisy, Tl noisy Mo & Ba ↑
		↓ -CCB1	↓	↓	↓
		23C0736-01	REN	↓	No Ba, Tl
		↓ -03	↓	↓	↓
		↓ -05	↓	↓	↓
		↓ -07	↓	↓	↓
		↓ -11	↓	↓	↓
		↓ -09	↓	↓	↓
		BLD0347-DUP1	↓	↓	Li, Sc, Tb sl. noisy - %R of Analytes OK
		↓ -MS1	↓	↓	↓
		↓ -MSD1	↓	↓	↓
		SEQ-IBL3	↓	↓	↓
		↓ -CCV1	↓	↓	Ba, Mo ↑ / Tl noisy
		↓ -CCB1	↓	↓	↓
		BLD0381-BLK1	REN	↓	Sc sl. noisy - %R & Analytes OK
		↓ -BS1	↓	↓	↓

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 4/25/23 **Analyst:** MS **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BLD0382-BLK1	REN		
		↓ -BS1	↓		
		23C0751-02		2	
		↓ -01		↓	
		BLD0382-DUP1			
		↓ -MS1	↓	↓	
		SEQ-IBLK			
		↓ -CCVJ			Ba, Mo↑
		↓ -CCBJ			
		Rinse/DI			
			MS 4/25/23		

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Tuesday, April 25, 2023 14:34:49
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.020
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	261.7	261.669	13.810	5.3	Standard
	In	114.9	2491.7	2491.684	56.647	2.3	Standard
	U	238.1	5074.6	5074.568	88.593	1.7	Standard
⌈	CeO	155.9	87.5	0.035	0.003	7.6	Standard
| >	Ce	139.9	2515.2	2515.155	77.333	3.1	Standard
⌊	Ce++	70.0	32.7	0.013	0.001	10.9	Standard
	Bkgd	220.0	6.7	6.733	0.742	11.0	Standard

Current Conditions File Data

Current Value	Description
0.89	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
950.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.90	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 4/25/2023 2:34:48 PM
End Time: 4/25/2023 2:44:33 PM

STD Performance Check - [Failed]
- Obtained Intensity (Be 9): 261.67 - <Target not achieved>
- Obtained Intensity (In 115): 2491.68 - <Target not achieved>
- Obtained Intensity (U 238): 5074.57 - <Target not achieved>
- Obtained Intensity (Bkgd 220): 6.73 - <Target not achieved>
- Obtained Formula (Ce++ 70 / Ce 140): 0.013 (=32.67 / 2515.15)
- Obtained Formula (CeO 156 / Ce 140): 0.035 (=87.53 / 2515.15) - <Target not achieved>
- Obtained RSD (Be 9): 0.0528 - <Target not achieved>
- Obtained RSD (In 115): 0.0227
- Obtained RSD (U 238): 0.0175

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
1.31 mm	1.12 mm	67468.95

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 0.91
- Obtained Intensity (In 115): 88499.28
- Obtained Formula (CeO 156 / Ce 140): 0.0244 (=2824.28 / 115935.54)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
- Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.725)
- Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.722)
- Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.717)
- Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.728)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 1.000; Intercept = -14.59

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.989; Intercept = -13.27

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 4/25/2023 2:34:48 PM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 5
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 261.67 - <Target not achieved>
		Obtained Intensity (In 115): 2491.68 - <Target not achieved>
		Obtained Intensity (U 238): 5074.57 - <Target not achieved>
		Obtained Intensity (Bkgd 220): 6.73 - <Target not achieved>
		Obtained Formula (Ce++ 70 / Ce 140): 0.013 (=32.67 / 2515.15)
		Obtained Formula (CeO 156 / Ce 140): 0.035 (=87.53 / 2515.15) - <Target not achieved>
		Obtained RSD (Be 9): 0.0528 - <Target not achieved>
		Obtained RSD (In 115): 0.0227
		Obtained RSD (U 238): 0.0175

		[Failed]
[Failed]

Torch Alignment
	Optimization Settings:
		Method: Torch Alignment.mth.
		Intensity Criterion: In 115 Maximum

	Optimization Results:
		Vertical	Horizontal	Intensity
[Passed]	1.31 mm	1.12 mm	67468.95

Nebulizer Gas Flow STD/KED [NEB]
	Optimization Settings:
		Method: Optimize.mth.
			Initial Try - Start/End/Step: 0.89/0.96/0.01.
		Intensity Criterion: In 115 Maximum
		Formula Criterion: CeO 156 / Ce 140 <= 0.025

	Optimization Results:
	Initial Try

		Obtained Intensity (In 115): 88499.28
		Obtained Formula (CeO 156 / Ce 140): 0.0244 (=2824.28 / 115935.54)
[Passed] Optimum value(s): 0.91

Mass Calibration and Resolution
	Optimization Settings:
		Method: Tuning.mth.
		MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
		Iterations: 6
		Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
		Peak height (%) for Res. Opt.: 10

	Optimization Results:
	Initial Try
		Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.725)
		Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.722)
		Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.717)
		Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.728)
[Passed] Optimum value(s): N/A

QID STD/DRC
	Optimization Settings:
		Method: QID Calibration.mth.
			Initial Try - Start/End/Step: -20/0/0.5.

	Optimization Results:
	Initial Try

  Optimum value(s): Correlation Coefficient = 1.000; Intercept = -14.59

	Analyte	Mass	Points	DAC	MaxIntensity

	Li	7	41	-15	32613.2
	Mg	24	41	-15	49622
	In	115	41	-10.5	89427
	Ce	140	41	-11	119127
	Pb	208	41	-11.5	40369
	U	238	41	-5	91077.4

KED Mode QID
	Optimization Settings:
		Method: QID Calibration.mth.
			Initial Try - Start/End/Step: -20/0/0.5.

	Optimization Results:
	Initial Try

  Optimum value(s): Correlation Coefficient = 0.989; Intercept = -13.27

	Analyte	Mass	Points	DAC	MaxIntensity

	Li	7	41	-13.5	19573.4
	Mg	24	41	-13.5	51841.9
	In	115	41	-11.5	132140
	Ce	140	41	-10.5	122124
	Pb	208	41	-10.5	40401
	U	238	41	-10.5	75583.4

End Time: 4/25/2023 2:44:33 PM

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 4/25/2023 2:44:35 PM
End Time: 4/25/2023 2:45:49 PM

KED Mode QID - Optimum value(s): Correlation Coefficient = 1.000; Intercept = -14.39

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 4/25/2023 2:44:35 PM

KED Mode QID

Optimization Settings:

Method: QID Calibration.mth.

Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 1.000; Intercept = -14.39

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-14	20474.7
Mg	24	41	-13.5	51520.7
In	115	41	-11.5	117719
Ce	140	41	-10.5	114404
Pb	208	41	-5.5	40569.5
U	238	41	-4	76717.4

End Time: 4/25/2023 2:45:49 PM

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Tuesday, April 25, 2023 14:49:27
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.028
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	5173.2	5173.204	126.498	2.4	Standard
	In	114.9	80756.1	80756.084	1623.847	2.0	Standard
	U	238.1	77457.5	77457.478	1438.304	1.9	Standard
⎡	CeO	155.9	2717.7	0.025	0.001	2.3	Standard
| >	Ce	139.9	109780.0	109780.032	2935.111	2.7	Standard
⎣	Ce++	70.0	777.4	0.007	0.000	1.6	Standard
	Bkgd	220.0	1.3	1.300	0.740	56.9	Standard

Current Conditions File Data

Current Value	Description
0.91	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
950.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.91	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 4/25/2023 2:49:27 PM
End Time: 4/25/2023 2:51:31 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 5173.20
Obtained Intensity (In 115): 80756.08
Obtained Intensity (U 238): 77457.48
Obtained Intensity (Bkgd 220): 1.30
Obtained Formula (Ce++ 70 / Ce 140): 0.007 (=777.42 / 109780.03)
Obtained Formula (CeO 156 / Ce 140): 0.025 (=2717.66 / 109780.03)
Obtained RSD (Be 9): 0.0245
Obtained RSD (In 115): 0.0201
Obtained RSD (U 238): 0.0186

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 4/25/2023 2:49:27 PM

STD Performance Check

Optimization Settings:

Method: STD Performance Check.mth.
Intensity Criterion: Be 9 > 2000
Intensity Criterion: In 115 > 40000
Intensity Criterion: U 238 > 30000
Intensity Criterion: Bkgd 220 <= 5
Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
Formula Criterion: CeO 156 / Ce 140 <= 0.025
RSD Criterion: Be 9.0122 < 0.05
RSD Criterion: In 114.904 < 0.05
RSD Criterion: U 238.05 < 0.05

Optimization Results:

Initial Try

Obtained Intensity (Be 9): 5173.20
Obtained Intensity (In 115): 80756.08
Obtained Intensity (U 238): 77457.48
Obtained Intensity (Bkgd 220): 1.30
Obtained Formula (Ce++ 70 / Ce 140): 0.007 (=777.42 / 109780.03)
Obtained Formula (CeO 156 / Ce 140): 0.025 (=2717.66 / 109780.03)
Obtained RSD (Be 9): 0.0245
Obtained RSD (In 115): 0.0201
Obtained RSD (U 238): 0.0186

[Passed] Optimum value(s): N/A

End Time: 4/25/2023 2:51:31 PM

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 15:21:57

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L				467516	1	Standard
	Be	**9**		ug/L				1	100	Standard
	C	**13**		ug/L				31937	0	Standard
	Cl	**37**		ug/L				1707014	2	Standard
>	**Sc**	**45**		ug/L				611745	2	Standard
	V	**51**		ug/L				7760	2	Standard
	V-1	**51**		ug/L				794	5	Standard
	Cr	**52**		ug/L				22860	0	Standard
	Cr	**53**		ug/L				355	10	Standard
	Mn	**55**		ug/L				685	3	Standard
>	**Ge**	**72**		ug/L				53644	1	KED
	Co	**59**		ug/L				1	173	KED
	Ni	**60**		ug/L				25	30	KED
	Ni	**62**		ug/L				6	45	KED
	Cu	**63**		ug/L				78	1	KED
	Cu	**65**		ug/L				46	18	KED
	Zn	**66**		ug/L				129	3	KED
	Zn	**67**		ug/L				26	32	KED
	As	**75**		ug/L				4	15	KED
	Se	**78**		ug/L				18	5	KED
	Y	**89**		ug/L				344606	0	Standard
	Kr	**83**		ug/L				45	20	Standard
>	**In-1**	**115**		ug/L				12269	0	KED
	Mo	**98**		ug/L				3	37	KED
	Cd	**111**		ug/L				4	12	KED
	Cd	**114**		ug/L				4	66	KED
>	**In**	**115**		ug/L				446507	1	Standard
	Ag	**107**		ug/L				29	30	Standard
	Sb	**121**		ug/L				48	6	Standard
	Sb	**123**		ug/L				35	23	Standard
	Ba	**135**		ug/L				38	13	Standard
	Ba	**137**		ug/L				73	14	Standard
>	**Tb**	**159**		ug/L				805616	0	Standard
	Tl	**205**		ug/L				20	24	Standard
	Pb	**208**		ug/L				221	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, April 25, 2023 15:27:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			467516	510756	2	Standard
	Be	**9**	**0.200**	ug/L	0.015	7	1	866	9	Standard
	C	**13**		ug/L			31937	34815	0	Standard
	Cl	**37**		ug/L			1707014	1714957	1	Standard
>	**Sc**	**45**		ug/L			611745	688166	2	Standard
	V	**51**	**0.200**	ug/L	0.004	1	7760	14167	2	Standard
	V-1	**51**	**0.200**	ug/L	0.002	1	794	6493	2	Standard
	Cr	**52**	**0.500**	ug/L	0.036	7	22860	37054	4	Standard
	Cr	**53**	**0.500**	ug/L	0.023	4	355	1733	5	Standard
	Mn	**55**	**0.500**	ug/L	0.004	0	685	18262	2	Standard
>	**Ge**	**72**		ug/L			53644	53060	2	KED
	Co	**59**	**0.200**	ug/L	0.012	6	1	1447	6	KED
	Ni	**60**	**0.500**	ug/L	0.004	0	25	1047	1	KED
	Ni	**62**	**0.500**	ug/L	0.062	12	6	155	10	KED
	Cu	**63**	**0.500**	ug/L	0.008	1	78	2852	2	KED
	Cu	**65**	**0.500**	ug/L	0.008	1	46	1505	0	KED
	Zn	**66**	**6.000**	ug/L	0.172	2	129	4437	0	KED
	Zn	**67**	**6.000**	ug/L	0.498	8	26	714	5	KED
	As	**75**	**0.200**	ug/L	0.006	2	4	76	4	KED
	Se	**78**	**0.500**	ug/L	0.087	17	18	38	8	KED
	Y	**89**		ug/L			344606	376026	1	Standard
	Kr	**83**		ug/L			45	49	24	Standard
>	**In-1**	**115**		ug/L			12269	11889	4	KED
	Mo	**98**	**0.200**	ug/L	0.016	8	3	332	9	KED
	Cd	**111**	**0.100**	ug/L	0.003	3	4	40	5	KED
	Cd	**114**	**0.100**	ug/L	0.036	35	4	91	35	KED
>	**In**	**115**		ug/L			446507	497499	2	Standard
	Ag	**107**	**0.200**	ug/L	0.007	3	29	4158	3	Standard
	Sb	**121**	**0.200**	ug/L	0.006	3	48	3138	4	Standard
	Sb	**123**	**0.200**	ug/L	0.004	2	35	2393	4	Standard
	Ba	**135**	**0.500**	ug/L	0.020	4	38	2743	5	Standard
	Ba	**137**	**0.500**	ug/L	0.013	2	73	4884	5	Standard
>	**Tb**	**159**		ug/L			805616	871152	2	Standard
	Tl	**205**	**0.200**	ug/L	0.003	1	20	7677	1	Standard
	Pb	**208**	**0.100**	ug/L	0.001	1	221	5536	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, April 25, 2023 15:32:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			467516	519472	1	Standard
⌊	**Be**	**9**	**10.000**	ug/L	0.393	3	1	43737	3	Standard
	C	**13**		ug/L			31937	53065	1	Standard
	Cl	**37**		ug/L			1707014	1721928	2	Standard
⌈>	**Sc**	**45**		ug/L			611745	693448	1	Standard
⌈	**V**	**51**	**10.000**	ug/L	0.181	1	7760	310236	1	Standard
⌊	**V-1**	**51**	**10.000**	ug/L	0.095	0	794	304910	1	Standard
⌈	**Cr**	**52**	**10.003**	ug/L	0.151	1	22860	279669	0	Standard
⌊	**Cr**	**53**	**10.002**	ug/L	0.235	2	355	29899	3	Standard
⌊	**Mn**	**55**	**10.001**	ug/L	0.182	1	685	375838	2	Standard
⌈>	**Ge**	**72**		ug/L			53644	54037	1	KED
⌈	**Co**	**59**	**10.000**	ug/L	0.084	0	1	70244	1	KED
⌊	**Ni**	**60**	**10.000**	ug/L	0.078	0	25	20639	1	KED
⌈	**Ni**	**62**	**10.002**	ug/L	0.323	3	6	3367	2	KED
⌈	**Cu**	**63**	**10.000**	ug/L	0.208	2	78	57650	3	KED
⌊	**Cu**	**65**	**9.999**	ug/L	0.309	3	46	29059	4	KED
⌈	**Zn**	**66**	**10.072**	ug/L	0.261	2	129	7652	4	KED
⌊	**Zn**	**67**	**10.135**	ug/L	0.764	7	26	1259	9	KED
⌈	**As**	**75**	**10.000**	ug/L	0.317	3	4	3880	4	KED
⌊	**Se**	**78**	**9.996**	ug/L	0.881	8	18	381	8	KED
	Y	**89**		ug/L			344606	391246	2	Standard
	Kr	**83**		ug/L			45	60	12	Standard
⌈>	**In-1**	**115**		ug/L			12269	11678	2	KED
⌈	**Mo**	**98**	**10.000**	ug/L	0.071	0	3	17837	1	KED
⌈	**Cd**	**111**	**10.000**	ug/L	0.103	1	4	3742	2	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.135	1	4	9761	2	KED
⌈>	**In**	**115**		ug/L			446507	520201	2	Standard
⌈	**Ag**	**107**	**10.000**	ug/L	0.455	4	29	211491	4	Standard
⌈	**Sb**	**121**	**10.000**	ug/L	0.399	3	48	168847	3	Standard
⌊	**Sb**	**123**	**10.000**	ug/L	0.291	2	35	128637	2	Standard
⌈	**Ba**	**135**	**10.000**	ug/L	0.529	5	38	56629	5	Standard
⌊	**Ba**	**137**	**10.000**	ug/L	0.544	5	73	101908	3	Standard
⌈>	**Tb**	**159**		ug/L			805616	897229	1	Standard
⌈	**Tl**	**205**	**10.000**	ug/L	0.040	0	20	396011	1	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.050	0	221	543365	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 15:37:21

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			467516	481661	3	Standard
	Be	**9**	**19.946**	ug/L	0.424	2	1	80026	3	Standard
	C	**13**		ug/L			31937	48950	3	Standard
	Cl	**37**		ug/L			1707014	1706865	2	Standard
>	**Sc**	**45**		ug/L			611745	656100	3	Standard
	V	**51**	**19.857**	ug/L	0.202	1	7760	558834	3	Standard
	V-1	**51**	**19.871**	ug/L	0.329	1	794	557959	3	Standard
	Cr	**52**	**19.865**	ug/L	0.448	2	22860	488682	2	Standard
	Cr	**53**	**19.911**	ug/L	0.395	1	355	54941	2	Standard
	Mn	**55**	**19.769**	ug/L	0.283	1	685	671007	3	Standard
>	**Ge**	**72**		ug/L			53644	53308	0	KED
	Co	**59**	**19.820**	ug/L	0.267	1	1	132586	1	KED
	Ni	**60**	**19.916**	ug/L	0.161	0	25	39856	1	KED
	Ni	**62**	**19.827**	ug/L	0.342	1	6	6360	1	KED
	Cu	**63**	**19.872**	ug/L	0.107	0	78	110095	0	KED
	Cu	**65**	**19.948**	ug/L	0.137	0	46	56549	1	KED
	Zn	**66**	**19.925**	ug/L	0.488	2	129	14644	2	KED
	Zn	**67**	**19.936**	ug/L	0.675	3	26	2393	3	KED
	As	**75**	**19.900**	ug/L	0.299	1	4	7461	1	KED
	Se	**78**	**20.034**	ug/L	0.628	3	18	740	2	KED
	Y	**89**		ug/L			344606	376084	3	Standard
	Kr	**83**		ug/L			45	54	19	Standard
>	**In-1**	**115**		ug/L			12269	12118	0	KED
	Mo	**98**	**19.849**	ug/L	0.414	2	3	35667	2	KED
	Cd	**111**	**19.929**	ug/L	0.096	0	4	7626	0	KED
	Cd	**114**	**19.870**	ug/L	0.181	0	4	19613	1	KED
>	**In**	**115**		ug/L			446507	475328	0	Standard
	Ag	**107**	**20.050**	ug/L	0.269	1	29	391539	1	Standard
	Sb	**121**	**20.060**	ug/L	0.409	2	48	313345	2	Standard
	Sb	**123**	**19.989**	ug/L	0.507	2	35	234496	2	Standard
	Ba	**135**	**19.993**	ug/L	0.671	3	38	103296	3	Standard
	Ba	**137**	**20.152**	ug/L	0.276	1	73	193547	1	Standard
>	**Tb**	**159**		ug/L			805616	861444	2	Standard
	Tl	**205**	**19.960**	ug/L	0.309	1	20	752930	3	Standard
	Pb	**208**	**19.814**	ug/L	0.244	1	221	996404	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, April 25, 2023 15:42:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			467516	479948	4	Standard
	Be	**9**	**49.503**	ug/L	1.210	2	1	188440	2	Standard
	C	**13**		ug/L			31937	29802	4	Standard
	Cl	**37**		ug/L			1707014	1683110	1	Standard
>	**Sc**	**45**		ug/L			611745	645548	6	Standard
	V	**51**	**50.167**	ug/L	1.472	2	7760	1398209	4	Standard
	V-1	**51**	**50.113**	ug/L	1.500	2	794	1397339	4	Standard
	Cr	**52**	**49.962**	ug/L	0.734	1	22860	1168172	5	Standard
	Cr	**53**	**49.785**	ug/L	0.870	1	355	131725	5	Standard
	Mn	**55**	**49.953**	ug/L	1.563	3	685	1657400	4	Standard
>	**Ge**	**72**		ug/L			53644	49969	3	KED
	Co	**59**	**50.282**	ug/L	0.534	1	1	324405	3	KED
	Ni	**60**	**49.936**	ug/L	0.586	1	25	93062	4	KED
	Ni	**62**	**50.009**	ug/L	1.360	2	6	15051	6	KED
	Cu	**63**	**50.063**	ug/L	0.755	1	78	261607	4	KED
	Cu	**65**	**49.867**	ug/L	0.455	0	46	130696	3	KED
	Zn	**66**	**50.102**	ug/L	0.399	0	129	34672	4	KED
	Zn	**67**	**50.177**	ug/L	1.695	3	26	5706	5	KED
	As	**75**	**50.161**	ug/L	0.261	0	4	17909	3	KED
	Se	**78**	**49.993**	ug/L	0.617	1	18	1705	4	KED
	Y	**89**		ug/L			344606	363168	5	Standard
	Kr	**83**		ug/L			45	63	24	Standard
>	**In-1**	**115**		ug/L			12269	11286	5	KED
	Mo	**98**	**49.987**	ug/L	0.293	0	3	83532	4	KED
	Cd	**111**	**49.835**	ug/L	0.872	1	4	17471	6	KED
	Cd	**114**	**49.784**	ug/L	0.286	0	4	44787	4	KED
>	**In**	**115**		ug/L			446507	475826	4	Standard
	Ag	**107**	**49.670**	ug/L	1.283	2	29	940211	6	Standard
	Sb	**121**	**49.875**	ug/L	1.446	2	48	769497	1	Standard
	Sb	**123**	**49.966**	ug/L	1.285	2	35	584265	2	Standard
	Ba	**135**	**49.616**	ug/L	0.879	1	38	247209	6	Standard
	Ba	**137**	**49.368**	ug/L	0.440	0	73	446231	3	Standard
>	**Tb**	**159**		ug/L			805616	853434	2	Standard
	Tl	**205**	**49.663**	ug/L	1.257	2	20	1795360	3	Standard
	Pb	**208**	**49.771**	ug/L	1.126	2	221	2423866	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 15:49:55

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			467516	483678	6	Standard
	Be	9	99.927	ug/L	5.842	5	1	383547	12	Standard
	C	13		ug/L			31937	42560	3	Standard
	Cl	37		ug/L			1707014	1640428	1	Standard
>	Sc	45		ug/L			611745	649947	8	Standard
	V	51	102.135	ug/L	1.231	1	7760	3078036	7	Standard
	V-1	51	101.796	ug/L	0.999	0	794	3041382	7	Standard
	Cr	52	101.292	ug/L	2.193	2	22860	2463869	6	Standard
	Cr	53	100.056	ug/L	1.763	1	355	266695	7	Standard
	Mn	55	101.446	ug/L	1.871	1	685	3564436	8	Standard
>	Ge	72		ug/L			53644	50818	2	KED
	Co	59	99.592	ug/L	1.923	1	1	644687	2	KED
	Ni	60	99.465	ug/L	2.461	2	25	185140	3	KED
	Ni	62	99.829	ug/L	1.736	1	6	30361	3	KED
	Cu	63	99.458	ug/L	2.029	2	78	518854	2	KED
	Cu	65	99.149	ug/L	1.468	1	46	256954	2	KED
	Zn	66	99.415	ug/L	1.826	1	129	68507	2	KED
	Zn	67	99.095	ug/L	2.423	2	26	11108	4	KED
	As	75	99.895	ug/L	0.039	0	4	36144	2	KED
	Se	78	99.699	ug/L	2.710	2	18	3406	3	KED
	Y	89		ug/L			344606	371505	6	Standard
	Kr	83		ug/L			45	59	14	Standard
>	In-1	115		ug/L			12269	11873	2	KED
	Mo	98	100.260	ug/L	0.992	0	3	177830	3	KED
	Cd	111	99.989	ug/L	0.299	0	4	36850	2	KED
	Cd	114	100.003	ug/L	1.000	1	4	94679	3	KED
>	In	115		ug/L			446507	448974	5	Standard
	Ag	107	100.596	ug/L	1.688	1	29	1832200	5	Standard
	Sb	121	100.517	ug/L	0.458	0	48	1489977	5	Standard
	Sb	123	100.460	ug/L	0.678	0	35	1126688	6	Standard
	Ba	135	100.677	ug/L	2.189	2	38	484163	7	Standard
	Ba	137	99.469	ug/L	2.475	2	73	833517	5	Standard
>	Tb	159		ug/L			805616	858324	4	Standard
	Tl	205	101.411	ug/L	1.979	1	20	3869645	5	Standard
	Pb	208	100.232	ug/L	3.434	3	221	4950764	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, April 25, 2023 15:57:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			467516	462126	4	Standard
⌊	**Be**	**9**	**0.002**	ug/L	0.001	52	1	10	44	Standard
	C	**13**		ug/L			31937	31445	3	Standard
	Cl	**37**		ug/L			1707014	1756191	1	Standard
⌈>	**Sc**	**45**		ug/L			611745	611943	2	Standard
⌈	**V**	**51**	**-0.001**	ug/L	0.006	775	7760	7741	2	Standard
⌊	**V-1**	**51**	**-0.005**	ug/L	0.001	18	794	667	5	Standard
⌈	**Cr**	**52**	**0.000**	ug/L	0.020	12530	22860	22866	1	Standard
⌊	**Cr**	**53**	**-0.013**	ug/L	0.009	66	355	321	5	Standard
⌊	**Mn**	**55**	**-0.002**	ug/L	0.000	10	685	630	1	Standard
⌈>	**Ge**	**72**		ug/L			53644	48036	1	KED
⌈	**Co**	**59**	**0.001**	ug/L	0.000	34	1	4	24	KED
⌊	**Ni**	**60**	**-0.002**	ug/L	0.003	128	25	19	26	KED
⌈	**Ni**	**62**	**0.002**	ug/L	0.028	1195	6	6	124	KED
⌈	**Cu**	**63**	**-0.000**	ug/L	0.005	21760	78	70	32	KED
⌊	**Cu**	**65**	**0.000**	ug/L	0.002	1252	46	41	12	KED
⌈	**Zn**	**66**	**-0.058**	ug/L	0.017	28	129	78	14	KED
⌊	**Zn**	**67**	**-0.112**	ug/L	0.067	59	26	11	60	KED
⌈	**As**	**75**	**0.006**	ug/L	0.006	100	4	6	33	KED
⌊	**Se**	**78**	**0.125**	ug/L	0.013	10	18	20	0	KED
	Y	**89**		ug/L			344606	347526	2	Standard
	Kr	**83**		ug/L			45	52	13	Standard
⌈>	**In-1**	**115**		ug/L			12269	11922	3	KED
⌈	**Mo**	**98**	**0.016**	ug/L	0.006	38	3	31	31	KED
⌊	**Cd**	**111**	**0.010**	ug/L	0.003	32	4	7	18	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.004	106	4	7	45	KED
⌈>	**In**	**115**		ug/L			446507	460641	2	Standard
⌈	**Ag**	**107**	**0.003**	ug/L	0.000	18	29	79	9	Standard
⌈	**Sb**	**121**	**0.023**	ug/L	0.001	3	48	406	5	Standard
⌊	**Sb**	**123**	**0.024**	ug/L	0.001	4	35	310	4	Standard
⌈	**Ba**	**135**	**0.002**	ug/L	0.001	59	38	50	15	Standard
⌊	**Ba**	**137**	**0.002**	ug/L	0.002	86	73	92	17	Standard
⌈>	**Tb**	**159**		ug/L			805616	807858	2	Standard
⌈	**Tl**	**205**	**0.005**	ug/L	0.001	13	20	209	13	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	37	221	173	7	Standard

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Start Time: 4/25/2023 4:09:17 PM
End Time: 4/25/2023 4:10:57 PM

Detector Voltages - [Passed]
Pulse Stage Voltage - [Passed] Optimum value(s): 950
Analog Stage Voltage - [Passed] Optimum value(s): -1600
Pulse Stage Voltage (Fine-tune) - [Passed] Optimum value(s): 950

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Optimization Status

Start Time: 4/25/2023 4:09:17 PM

Detector Voltages
	Pulse Stage Voltage Optimization Settings:
		Method: Pulse Stage Optimization.mth.
			Initial Try - Start/End/Step: 800/1300/50.
			Retry 1 - Start/End/Step: 800/1800/50.
		Optimization Criterion (Pulse 76): 0.1

	Analog Stage Voltage Optimization Settings:
		Method: Analog Stage Optimization.mth.
		Initial Try - Start/End: -1300/-1900.
		Retry 1 - Start/End: -1300/-2400.
		Optimization Criterion (Analog 80): Target Gain 10000

	Pulse Stage Voltage Results:
	Initial Try

		Intensity Obtained For Criterion (Pulse 76): 79620.26
[Passed] Optimum value(s): 950
	Analog Stage Voltage Results:
	Initial Try
		Interim Gain Values: 9882.1 (-1600V)
		Analyte: Analog 80
		ACEM(volts): -1600
		Achieved Gain: 9882.1
		Achieved NMax: 1.2669e+009
		Conversion Factor: 0.101034
		Passes: 1
		Points Collected: 31
		Points Used: 3
		Coefficient: 1
[Passed] Optimum value(s): -1600
	Pulse Stage Voltage (Fine-tune) Results:
	Initial Try

		Intensity Obtained For Criterion (Pulse 76): 77194.00
[Passed] Optimum value(s): 950

End Time: 4/25/2023 4:10:57 PM

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Start Time: 4/25/2023 4:15:25 PM
End Time: 4/25/2023 4:22:54 PM

Dual Detector Calibration
Points Collected: 401
Calibration unsuccessful for some masses due to insufficient pulse/analog crossover points

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Optimization Status

Start Time: 4/25/2023 4:15:25 PM

Dual Detector Calibration
Optimization Settings:
Method: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\DualDetectorNew.mth.
Initial Try - Start/End/Step: -20/0/0.05.

Optimization Results:
Initial Try
Points Collected: 401
Calibration unsuccessful for some masses due to insufficient pulse/analog crossover points

End Time: 4/25/2023 4:22:54 PM

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Start Time: 4/25/2023 4:23:25 PM
End Time: 4/25/2023 4:30:54 PM

Dual Detector Calibration
Points Collected: 401
Calibration unsuccessful for some masses due to insufficient pulse/analog crossover points

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Optimization Status

Start Time: 4/25/2023 4:23:25 PM

Dual Detector Calibration
Optimization Settings:
Method: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\DualDetectorNew.mth.
Initial Try - Start/End/Step: -20/0/0.05.

Optimization Results:
Initial Try
Points Collected: 401
Calibration unsuccessful for some masses due to insufficient pulse/analog crossover points

End Time: 4/25/2023 4:30:54 PM

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Tuesday, April 25, 2023 16:41:04
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.036
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	5439.5	5439.503	146.979	2.7	Standard
	In	114.9	84057.2	84057.177	1617.284	1.9	Standard
	U	238.1	78800.8	78800.752	743.008	0.9	Standard
⌈	CeO	155.9	2947.8	0.026	0.001	2.1	Standard
| >	Ce	139.9	114046.9	114046.936	2005.949	1.8	Standard
⌊	Ce++	70.0	875.4	0.008	0.000	2.9	Standard
	Bkgd	220.0	0.8	0.833	0.354	42.4	Standard

Current Conditions File Data

Current Value	Description
0.91	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
950.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.91	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Start Time: 4/25/2023 4:41:03 PM
End Time: 4/25/2023 4:43:08 PM

STD Performance Check - [Failed]
Obtained Intensity (Be 9): 5439.50
Obtained Intensity (In 115): 84057.18
Obtained Intensity (U 238): 78800.75
Obtained Intensity (Bkgd 220): 0.83
Obtained Formula (Ce++ 70 / Ce 140): 0.008 (=875.36 / 114046.94)
Obtained Formula (CeO 156 / Ce 140): 0.026 (=2947.77 / 114046.94) - <Target not achieved>

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Optimization Status

Start Time: 4/25/2023 4:41:03 PM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 10
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 5439.50
		Obtained Intensity (In 115): 84057.18
		Obtained Intensity (U 238): 78800.75
		Obtained Intensity (Bkgd 220): 0.83
		Obtained Formula (Ce++ 70 / Ce 140): 0.008 (=875.36 / 114046.94)
		Obtained Formula (CeO 156 / Ce 140): 0.026 (=2947.77 / 114046.94) - <Target not achieved>

		[Failed]
[Failed]

End Time: 4/25/2023 4:43:08 PM

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Tuesday, April 25, 2023 16:43:57
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.037
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	4627.7	4627.750	123.732	2.7	Standard
	In	114.9	75078.3	75078.327	1812.778	2.4	Standard
	U	238.1	74133.1	74133.103	1356.293	1.8	Standard
⌈	CeO	155.9	2543.8	0.025	0.001	2.4	Standard
| >	Ce	139.9	102478.8	102478.796	2748.561	2.7	Standard
⌊	Ce++	70.0	715.4	0.007	0.000	1.7	Standard
	Bkgd	220.0	1.2	1.200	0.758	63.2	Standard

Current Conditions File Data

Current Value	Description
0.90	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
950.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.91	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

NEB FLOW MANUALLY LOWERED.
-MB 4/25/23

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Start Time: 4/25/2023 4:43:57 PM
End Time: 4/25/2023 4:46:01 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 4627.75
Obtained Intensity (In 115): 75078.33
Obtained Intensity (U 238): 74133.10
Obtained Intensity (Bkgd 220): 1.20
Obtained Formula (Ce++ 70 / Ce 140): 0.007 (=715.42 / 102478.80)
Obtained Formula (CeO 156 / Ce 140): 0.025 (=2543.83 / 102478.80)
Obtained RSD (Be 9): 0.0267
Obtained RSD (In 115): 0.0241
Obtained RSD (U 238): 0.0183

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Optimization Status

Start Time: 4/25/2023 4:43:57 PM

STD Performance Check

Optimization Settings:

Method: STD Performance Check.mth.
Intensity Criterion: Be 9 > 2000
Intensity Criterion: In 115 > 40000
Intensity Criterion: U 238 > 30000
Intensity Criterion: Bkgd 220 <= 10
Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
Formula Criterion: CeO 156 / Ce 140 <= 0.025
RSD Criterion: Be 9.0122 < 0.05
RSD Criterion: In 114.904 < 0.05
RSD Criterion: U 238.05 < 0.05

Optimization Results:

Initial Try

Obtained Intensity (Be 9): 4627.75
Obtained Intensity (In 115): 75078.33
Obtained Intensity (U 238): 74133.10
Obtained Intensity (Bkgd 220): 1.20
Obtained Formula (Ce++ 70 / Ce 140): 0.007 (=715.42 / 102478.80)
Obtained Formula (CeO 156 / Ce 140): 0.025 (=2543.83 / 102478.80)
Obtained RSD (Be 9): 0.0267
Obtained RSD (In 115): 0.0241
Obtained RSD (U 238): 0.0183

[Passed] Optimum value(s): N/A

End Time: 4/25/2023 4:46:01 PM

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 17:12:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L				449997	3	Standard
	Be	**9**		ug/L				11	16	Standard
	C	**13**		ug/L				29409	1	Standard
	Cl	**37**		ug/L				1805078	2	Standard
>	**Sc**	**45**		ug/L				595718	0	Standard
	V	**51**		ug/L				6858	1	Standard
	V-1	**51**		ug/L				607	4	Standard
	Cr	**52**		ug/L				20299	0	Standard
	Cr	**53**		ug/L				294	1	Standard
	Mn	**55**		ug/L				569	3	Standard
>	**Ge**	**72**		ug/L				49648	1	KED
	Co	**59**		ug/L				6	15	KED
	Ni	**60**		ug/L				69	12	KED
	Ni	**62**		ug/L				7	25	KED
	Cu	**63**		ug/L				80	13	KED
	Cu	**65**		ug/L				43	45	KED
	Zn	**66**		ug/L				140	15	KED
	Zn	**67**		ug/L				20	24	KED
	As	**75**		ug/L				5	16	KED
	Se	**78**		ug/L				25	12	KED
	Y	**89**		ug/L				347335	2	Standard
	Kr	**83**		ug/L				53	8	Standard
>	**In-1**	**115**		ug/L				11040	1	KED
	Mo	**98**		ug/L				7	86	KED
	Cd	**111**		ug/L				7	19	KED
	Cd	**114**		ug/L				9	59	KED
>	**In**	**115**		ug/L				434426	1	Standard
	Ag	**107**		ug/L				42	29	Standard
	Sb	**121**		ug/L				205	3	Standard
	Sb	**123**		ug/L				131	11	Standard
	Ba	**135**		ug/L				60	7	Standard
	Ba	**137**		ug/L				114	5	Standard
>	**Tb**	**159**		ug/L				798416	1	Standard
	Tl	**205**		ug/L				218	11	Standard
	Pb	**208**		ug/L				288	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 17:17:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			449997	428332	6	Standard
	Be	**9**	**0.200**	ug/L	0.003	1	11	683	6	Standard
	C	**13**		ug/L			29409	28838	5	Standard
	Cl	**37**		ug/L			1805078	1786771	2	Standard
>	**Sc**	**45**		ug/L			595718	556666	5	Standard
	V	**51**	**0.200**	ug/L	0.001	0	6858	11309	5	Standard
	V-1	**51**	**0.200**	ug/L	0.004	1	607	5392	6	Standard
	Cr	**52**	**0.500**	ug/L	0.014	2	20299	29742	4	Standard
	Cr	**53**	**0.500**	ug/L	0.010	2	294	1468	4	Standard
	Mn	**55**	**0.500**	ug/L	0.010	2	569	15338	4	Standard
>	**Ge**	**72**		ug/L			49648	49035	1	KED
	Co	**59**	**0.200**	ug/L	0.004	2	6	1223	2	KED
	Ni	**60**	**0.500**	ug/L	0.026	5	69	934	4	KED
	Ni	**62**	**0.500**	ug/L	0.108	21	7	145	21	KED
	Cu	**63**	**0.500**	ug/L	0.026	5	80	2628	4	KED
	Cu	**65**	**0.500**	ug/L	0.022	4	43	1344	3	KED
	Zn	**66**	**6.000**	ug/L	0.051	0	140	4036	0	KED
	Zn	**67**	**6.000**	ug/L	0.507	8	20	626	8	KED
	As	**75**	**0.200**	ug/L	0.013	6	5	76	7	KED
	Se	**78**	**0.500**	ug/L	0.377	75	25	33	17	KED
	Y	**89**		ug/L			347335	326469	5	Standard
	Kr	**83**		ug/L			53	46	13	Standard
>	**In-1**	**115**		ug/L			11040	10905	2	KED
	Mo	**98**	**0.200**	ug/L	0.009	4	7	330	6	KED
	Cd	**111**	**0.100**	ug/L	0.007	6	7	39	7	KED
	Cd	**114**	**0.100**	ug/L	0.008	8	9	113	9	KED
>	**In**	**115**		ug/L			434426	411847	6	Standard
	Ag	**107**	**0.200**	ug/L	0.005	2	42	3531	3	Standard
	Sb	**121**	**0.200**	ug/L	0.009	4	205	2827	3	Standard
	Sb	**123**	**0.200**	ug/L	0.014	6	131	2201	0	Standard
	Ba	**135**	**0.500**	ug/L	0.032	6	60	2253	0	Standard
	Ba	**137**	**0.500**	ug/L	0.006	1	114	4099	5	Standard
>	**Tb**	**159**		ug/L			798416	765718	1	Standard
	Tl	**205**	**0.200**	ug/L	0.007	3	218	6812	4	Standard
	Pb	**208**	**0.100**	ug/L	0.005	4	288	4905	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 17:22:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			449997	473541	2	Standard
⌊	**Be**	**9**	**10.000**	ug/L	0.332	3	11	39671	2	Standard
	C	**13**		ug/L			29409	51911	0	Standard
	Cl	**37**		ug/L			1805078	1786107	1	Standard
⌈>	**Sc**	**45**		ug/L			595718	613797	2	Standard
⌈	**V**	**51**	**10.000**	ug/L	0.226	2	6858	280422	0	Standard
⌊	**V-1**	**51**	**10.000**	ug/L	0.301	3	607	276627	1	Standard
⌈	**Cr**	**52**	**9.999**	ug/L	0.299	2	20299	249465	2	Standard
⌊	**Cr**	**53**	**10.000**	ug/L	0.394	3	294	26975	1	Standard
⌊	**Mn**	**55**	**10.000**	ug/L	0.289	2	569	331263	1	Standard
⌈>	**Ge**	**72**		ug/L			49648	50027	1	KED
⌈	**Co**	**59**	**10.000**	ug/L	0.253	2	6	63847	2	KED
⌈	**Ni**	**60**	**10.002**	ug/L	0.248	2	69	18910	3	KED
⌊	**Ni**	**62**	**10.002**	ug/L	0.493	4	7	3075	4	KED
⌈	**Cu**	**63**	**10.000**	ug/L	0.270	2	80	52359	3	KED
⌊	**Cu**	**65**	**10.000**	ug/L	0.265	2	43	26425	1	KED
⌈	**Zn**	**66**	**10.018**	ug/L	0.245	2	140	6814	2	KED
⌊	**Zn**	**67**	**10.281**	ug/L	0.133	1	20	1168	2	KED
⌈	**As**	**75**	**10.000**	ug/L	0.223	2	5	3591	2	KED
⌊	**Se**	**78**	**10.011**	ug/L	1.108	11	25	349	10	KED
	Y	**89**		ug/L			347335	364027	1	Standard
	Kr	**83**		ug/L			53	48	12	Standard
⌈>	**In-1**	**115**		ug/L			11040	10886	5	KED
⌈	**Mo**	**98**	**10.000**	ug/L	0.277	2	7	16091	8	KED
⌈	**Cd**	**111**	**10.000**	ug/L	0.184	1	7	3471	6	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.125	1	9	8972	6	KED
⌈>	**In**	**115**		ug/L			434426	458892	0	Standard
⌈	**Ag**	**107**	**10.000**	ug/L	0.328	3	42	197024	2	Standard
⌈	**Sb**	**121**	**10.000**	ug/L	0.161	1	205	156133	1	Standard
⌊	**Sb**	**123**	**10.000**	ug/L	0.123	1	131	118907	0	Standard
⌈	**Ba**	**135**	**10.001**	ug/L	0.253	2	60	51149	3	Standard
⌊	**Ba**	**137**	**10.001**	ug/L	0.256	2	114	91454	2	Standard
⌈>	**Tb**	**159**		ug/L			798416	843914	1	Standard
⌈	**Tl**	**205**	**10.000**	ug/L	0.338	3	218	369322	2	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.214	2	288	491665	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 17:27:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			449997	475593	4	Standard
⌊	**Be**	**9**	**20.027**	ug/L	0.469	2	11	80182	2	Standard
	C	**13**		ug/L			29409	46303	1	Standard
	Cl	**37**		ug/L			1805078	1783713	1	Standard
⌈>	**Sc**	**45**		ug/L			595718	637527	4	Standard
⌈	**V**	**51**	**19.895**	ug/L	0.714	3	6858	560299	3	Standard
⌊	**V-1**	**51**	**19.884**	ug/L	0.568	2	607	557545	2	Standard
⌈	**Cr**	**52**	**19.914**	ug/L	0.752	3	20299	486155	2	Standard
⌊	**Cr**	**53**	**19.877**	ug/L	0.425	2	294	54054	2	Standard
⌊	**Mn**	**55**	**19.936**	ug/L	0.636	3	569	676420	2	Standard
⌈>	**Ge**	**72**		ug/L			49648	50874	1	KED
⌈	**Co**	**59**	**19.908**	ug/L	0.519	2	6	126944	2	KED
⌈	**Ni**	**60**	**19.803**	ug/L	0.290	1	69	36577	3	KED
⌊	**Ni**	**62**	**19.924**	ug/L	0.769	3	7	6131	4	KED
⌈	**Cu**	**63**	**19.878**	ug/L	0.552	2	80	103220	2	KED
⌊	**Cu**	**65**	**19.831**	ug/L	0.698	3	43	51506	2	KED
⌈	**Zn**	**66**	**20.052**	ug/L	0.731	3	140	13830	3	KED
⌊	**Zn**	**67**	**20.210**	ug/L	0.478	2	20	2388	0	KED
⌈	**As**	**75**	**19.914**	ug/L	0.497	2	5	7143	1	KED
⌊	**Se**	**78**	**20.113**	ug/L	0.548	2	25	703	3	KED
	Y	**89**		ug/L			347335	366839	1	Standard
	Kr	**83**		ug/L			53	52	14	Standard
⌈>	**In-1**	**115**		ug/L			11040	10762	2	KED
⌈	**Mo**	**98**	**19.963**	ug/L	0.589	2	7	31478	1	KED
⌈	**Cd**	**111**	**19.940**	ug/L	0.415	2	7	6751	0	KED
⌊	**Cd**	**114**	**19.903**	ug/L	0.473	2	9	17295	0	KED
⌈>	**In**	**115**		ug/L			434426	466487	2	Standard
⌈	**Ag**	**107**	**19.789**	ug/L	0.691	3	42	380122	1	Standard
⌈	**Sb**	**121**	**19.884**	ug/L	0.243	1	205	308201	2	Standard
⌊	**Sb**	**123**	**19.903**	ug/L	0.289	1	131	235829	1	Standard
⌈	**Ba**	**135**	**19.942**	ug/L	0.486	2	60	102393	1	Standard
⌊	**Ba**	**137**	**19.957**	ug/L	0.428	2	114	183822	3	Standard
⌈>	**Tb**	**159**		ug/L			798416	847884	4	Standard
⌈	**Tl**	**205**	**19.955**	ug/L	0.143	0	218	733634	3	Standard
⌊	**Pb**	**208**	**20.008**	ug/L	0.442	2	288	989383	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 17:33:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			449997	445453	0	Standard
	Be	**9**	**49.737**	ug/L	1.128	2	11	181868	2	Standard
	C	**13**		ug/L			29409	27944	4	Standard
	Cl	**37**		ug/L			1805078	1740390	1	Standard
>	**Sc**	**45**		ug/L			595718	600285	1	Standard
	V	**51**	**49.652**	ug/L	0.911	1	6858	1263464	0	Standard
	V-1	**51**	**49.681**	ug/L	1.495	3	607	1270806	1	Standard
	Cr	**52**	**49.696**	ug/L	0.548	1	20299	1080674	1	Standard
	Cr	**53**	**49.789**	ug/L	1.872	3	294	124463	2	Standard
	Mn	**55**	**49.440**	ug/L	0.744	1	569	1496064	1	Standard
>	**Ge**	**72**		ug/L			49648	46945	3	KED
	Co	**59**	**49.898**	ug/L	1.184	2	6	290714	5	KED
	Ni	**60**	**49.727**	ug/L	1.089	2	69	82437	5	KED
	Ni	**62**	**49.836**	ug/L	0.956	1	7	13915	5	KED
	Cu	**63**	**49.857**	ug/L	0.300	0	80	235439	3	KED
	Cu	**65**	**49.836**	ug/L	0.470	0	43	117517	4	KED
	Zn	**66**	**49.909**	ug/L	0.847	1	140	31295	2	KED
	Zn	**67**	**49.378**	ug/L	0.939	1	20	5061	1	KED
	As	**75**	**50.068**	ug/L	0.193	0	5	16681	3	KED
	Se	**78**	**49.843**	ug/L	0.714	1	25	1549	5	KED
	Y	**89**		ug/L			347335	341956	1	Standard
	Kr	**83**		ug/L			53	52	18	Standard
>	**In-1**	**115**		ug/L			11040	10699	4	KED
	Mo	**98**	**50.024**	ug/L	1.607	3	7	78540	1	KED
	Cd	**111**	**49.925**	ug/L	0.293	0	7	16676	5	KED
	Cd	**114**	**49.851**	ug/L	1.129	2	9	42413	3	KED
>	**In**	**115**		ug/L			434426	427068	0	Standard
	Ag	**107**	**49.952**	ug/L	0.627	1	42	874572	0	Standard
	Sb	**121**	**49.926**	ug/L	1.215	2	205	703015	1	Standard
	Sb	**123**	**50.078**	ug/L	0.764	1	131	547439	2	Standard
	Ba	**135**	**49.831**	ug/L	0.384	0	60	230345	0	Standard
	Ba	**137**	**49.841**	ug/L	0.579	1	114	413545	1	Standard
>	**Tb**	**159**		ug/L			798416	796663	2	Standard
	Tl	**205**	**49.822**	ug/L	1.074	2	218	1690377	0	Standard
	Pb	**208**	**49.731**	ug/L	0.543	1	288	2250670	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 17:40:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			449997	421201	7	Standard
	Be	**9**	**99.955**	ug/L	1.241	1	11	345150	7	Standard
	C	**13**		ug/L			29409	37273	2	Standard
	Cl	**37**		ug/L			1805078	1687050	1	Standard
>	**Sc**	**45**		ug/L			595718	584320	5	Standard
	V	**51**	**100.986**	ug/L	1.874	1	6858	2580269	6	Standard
	V-1	**51**	**100.807**	ug/L	2.570	2	607	2579890	6	Standard
	Cr	**52**	**100.281**	ug/L	1.905	1	20299	2123522	7	Standard
	Cr	**53**	**99.682**	ug/L	3.422	3	294	239836	6	Standard
	Mn	**55**	**101.021**	ug/L	1.989	1	569	3081855	7	Standard
>	**Ge**	**72**		ug/L			49648	48563	2	KED
	Co	**59**	**100.164**	ug/L	0.982	0	6	606733	1	KED
	Ni	**60**	**100.245**	ug/L	1.214	1	69	173141	1	KED
	Ni	**62**	**99.398**	ug/L	2.200	2	7	28128	2	KED
	Cu	**63**	**99.965**	ug/L	0.852	0	80	487715	2	KED
	Cu	**65**	**99.433**	ug/L	2.197	2	43	237882	0	KED
	Zn	**66**	**99.691**	ug/L	0.428	0	140	63899	2	KED
	Zn	**67**	**99.440**	ug/L	3.428	3	20	10341	5	KED
	As	**75**	**99.738**	ug/L	0.966	0	5	34065	1	KED
	Se	**78**	**100.071**	ug/L	0.889	0	25	3200	1	KED
	Y	**89**		ug/L			347335	344310	4	Standard
	Kr	**83**		ug/L			53	51	16	Standard
>	**In-1**	**115**		ug/L			11040	10995	5	KED
	Mo	**98**	**100.263**	ug/L	3.920	3	7	163162	1	KED
	Cd	**111**	**99.551**	ug/L	2.495	2	7	33631	2	KED
	Cd	**114**	**99.716**	ug/L	1.599	1	9	86355	3	KED
>	**In**	**115**		ug/L			434426	415507	6	Standard
	Ag	**107**	**99.876**	ug/L	2.891	2	42	1692358	3	Standard
	Sb	**121**	**100.509**	ug/L	1.714	1	205	1399851	5	Standard
	Sb	**123**	**100.034**	ug/L	2.144	2	131	1064011	4	Standard
	Ba	**135**	**99.511**	ug/L	1.707	1	60	440128	5	Standard
	Ba	**137**	**98.726**	ug/L	1.407	1	114	764342	6	Standard
>	**Tb**	**159**		ug/L			798416	777622	2	Standard
	Tl	**205**	**99.969**	ug/L	0.374	0	218	3308264	3	Standard
	Pb	**208**	**99.880**	ug/L	1.291	1	288	4394065	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 17:47:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			449997	413436	4	Standard
⌊	**Be**	**9**	**-0.001**	ug/L	0.002	329	11	8	93	Standard
	C	**13**		ug/L			29409	27730	3	Standard
	Cl	**37**		ug/L			1805078	1796748	1	Standard
⌈>	**Sc**	**45**		ug/L			595718	561319	2	Standard
⌈	**V**	**51**	**0.015**	ug/L	0.007	47	6858	6835	0	Standard
⌊	**V-1**	**51**	**0.001**	ug/L	0.001	206	607	586	2	Standard
⌈	**Cr**	**52**	**0.063**	ug/L	0.015	24	20299	20398	0	Standard
⌊	**Cr**	**53**	**0.012**	ug/L	0.009	75	294	306	8	Standard
	Mn	**55**	**0.001**	ug/L	0.001	86	569	570	3	Standard
⌈>	**Ge**	**72**		ug/L			49648	48619	0	KED
⌈	**Co**	**59**	**-0.000**	ug/L	0.000	162	6	5	57	KED
⌊	**Ni**	**60**	**-0.003**	ug/L	0.011	330	69	62	28	KED
⌈	**Ni**	**62**	**0.043**	ug/L	0.014	32	7	19	20	KED
⌊	**Cu**	**63**	**-0.001**	ug/L	0.001	100	80	74	5	KED
⌈	**Cu**	**65**	**-0.001**	ug/L	0.004	565	43	40	24	KED
⌊	**Zn**	**66**	**-0.001**	ug/L	0.015	1083	140	137	7	KED
⌈	**Zn**	**67**	**0.035**	ug/L	0.046	131	20	24	19	KED
⌊	**As**	**75**	**0.005**	ug/L	0.004	67	5	7	16	KED
	Se	**78**	**-0.020**	ug/L	0.168	851	25	23	21	KED
	Y	**89**		ug/L			347335	325367	0	Standard
	Kr	**83**		ug/L			53	47	28	Standard
⌈>	**In-1**	**115**		ug/L			11040	10626	4	KED
⌈	**Mo**	**98**	**0.020**	ug/L	0.009	43	7	39	33	KED
⌊	**Cd**	**111**	**-0.005**	ug/L	0.002	47	7	5	10	KED
	Cd	**114**	**-0.003**	ug/L	0.002	73	9	7	27	KED
⌈>	**In**	**115**		ug/L			434426	410914	3	Standard
⌈	**Ag**	**107**	**0.003**	ug/L	0.001	30	42	92	14	Standard
⌈	**Sb**	**121**	**0.022**	ug/L	0.001	2	205	491	4	Standard
⌊	**Sb**	**123**	**0.022**	ug/L	0.003	12	131	351	5	Standard
⌈	**Ba**	**135**	**-0.000**	ug/L	0.003	928	60	55	20	Standard
⌊	**Ba**	**137**	**0.001**	ug/L	0.001	247	114	113	6	Standard
⌈>	**Tb**	**159**		ug/L			798416	746488	1	Standard
⌈	**Tl**	**205**	**0.003**	ug/L	0.001	19	218	302	4	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	24	288	210	8	Standard

Sample Information

Sample Date/Time: Tuesday, April 25, 2023 17:40:12
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.m
Mass Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

Calibration

Analyte	Mass	r Corr Coef	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
Li	6							
Be	9	**1.0000**	0.008	0.20	10	20	50	100
C	13							
Cl	37							
Sc	45							
V	51	**0.9998**	0.044	0.20	10	20	50	100
V-1	51	**0.9999**	0.044	0.20	10	20	50	100
Cr	52	**1.0000**	0.036	0.50	10	20	50	100
Cr	53	**1.0000**	0.004	0.50	10	20	50	100
Mn	55	**0.9998**	0.052	0.50	10	20	50	100
Ge	72							
Co	59	**1.0000**	0.125	0.20	10	20	50	100
Ni	60	**1.0000**	0.036	0.50	10	20	50	100
Ni	62	**0.9999**	0.006	0.50	10	20	50	100
Cu	63	**1.0000**	0.100	0.50	10	20	50	100
Cu	65	**0.9999**	0.049	0.50	10	20	50	100
Zn	66	**1.0000**	0.013	6.00	10	20	50	100
Zn	67	**0.9998**	0.002	6.00	10	20	50	100
As	75	**1.0000**	0.007	0.20	10	20	50	100
Se	78	**1.0000**	0.001	0.50	10	20	50	100
Y	89							
Kr	83							
In-1	115							
Mo	98	**1.0000**	0.148	0.20	10	20	50	100
Cd	111	**1.0000**	0.031	0.10	10	20	50	100
Cd	114	**1.0000**	0.079	0.10	10	20	50	100
In	115							
Ag	107	**1.0000**	0.041	0.20	10	20	50	100
Sb	121	**1.0000**	0.034	0.20	10	20	50	100
Sb	123	**1.0000**	0.026	0.20	10	20	50	100
Ba	135	**1.0000**	0.011	0.50	10	20	50	100
Ba	137	**0.9997**	0.019	0.50	10	20	50	100
Tb	159							
Tl	205	**1.0000**	0.043	0.20	10	20	50	100
Pb	208	**1.0000**	0.057	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, April 25, 2023 17:54:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			449997	443504	1	Standard
	Be	**9**	**52.197**	ug/L	1.960	3	11	189766	4	Standard
	C	**13**		ug/L			29409	32419	2	Standard
	Cl	**37**		ug/L			1805078	1755795	1	Standard
>	**Sc**	**45**		ug/L			595718	619304	3	Standard
	V	**51**	**51.035**	ug/L	0.952	1	6858	1385338	4	Standard
	V-1	**51**	**51.503**	ug/L	1.121	2	607	1396999	3	Standard
	Cr	**52**	**50.624**	ug/L	0.116	0	20299	1145904	3	Standard
	Cr	**53**	**52.224**	ug/L	1.905	3	294	133216	1	Standard
	Mn	**55**	**51.770**	ug/L	1.127	2	569	1672512	1	Standard
>	**Ge**	**72**		ug/L			49648	45181	1	KED
	Co	**59**	**50.294**	ug/L	0.890	1	6	283415	0	KED
	Ni	**60**	**51.514**	ug/L	1.839	3	69	82785	1	KED
	Ni	**62**	**50.914**	ug/L	2.033	3	7	13402	2	KED
	Cu	**63**	**51.212**	ug/L	1.413	2	80	232427	1	KED
	Cu	**65**	**52.133**	ug/L	1.606	3	43	116051	1	KED
	Zn	**66**	**50.207**	ug/L	1.058	2	140	29995	0	KED
	Zn	**67**	**49.560**	ug/L	0.954	1	20	4802	1	KED
	As	**75**	**48.703**	ug/L	1.320	2	5	15477	1	KED
	Se	**78**	**79.393**	ug/L	3.533	4	25	2365	2	KED
	Y	**89**		ug/L			347335	362171	4	Standard
	Kr	**83**		ug/L			53	40	7	Standard
>	**In-1**	**115**		ug/L			11040	11182	8	KED
	Mo	**98**	**48.812**	ug/L	0.498	1	7	80895	8	KED
	Cd	**111**	**50.745**	ug/L	1.115	2	7	17436	7	KED
	Cd	**114**	**50.579**	ug/L	0.265	0	9	44565	8	KED
>	**In**	**115**		ug/L			434426	441204	3	Standard
	Ag	**107**	**53.023**	ug/L	0.998	1	42	954741	1	Standard
	Sb	**121**	**51.201**	ug/L	0.747	1	205	757521	2	Standard
	Sb	**123**	**49.989**	ug/L	1.131	2	131	564846	1	Standard
	Ba	**135**	**51.697**	ug/L	0.924	1	60	242921	4	Standard
	Ba	**137**	**51.862**	ug/L	0.479	0	114	426556	4	Standard
>	**Tb**	**159**		ug/L			798416	818429	2	Standard
	Tl	**205**	**50.780**	ug/L	1.362	2	218	1768288	2	Standard
	Pb	**208**	**51.622**	ug/L	0.734	1	288	2390397	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 18:02:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			449997	429267	2	Standard
⌊	**Be**	**9**	**51.344**	ug/L	2.020	3	11	180608	4	Standard
	C	**13**		ug/L			29409	30583	5	Standard
	Cl	**37**		ug/L			1805078	1765610	1	Standard
⌈>	**Sc**	**45**		ug/L			595718	582941	0	Standard
⌈	**V**	**51**	**51.792**	ug/L	1.148	2	6858	1323038	2	Standard
⌊	**V-1**	**51**	**52.188**	ug/L	1.183	2	607	1332536	2	Standard
⌈	**Cr**	**52**	**52.182**	ug/L	0.730	1	20299	1111197	1	Standard
⌊	**Cr**	**53**	**53.524**	ug/L	1.184	2	294	128602	2	Standard
⌊	**Mn**	**55**	**51.830**	ug/L	0.795	1	569	1576874	1	Standard
⌈>	**Ge**	**72**		ug/L			49648	50310	0	KED
⌈	**Co**	**59**	**52.667**	ug/L	1.539	2	6	330530	2	KED
⌈	**Ni**	**60**	**53.090**	ug/L	1.340	2	69	95030	1	KED
⌊	**Ni**	**62**	**52.596**	ug/L	2.341	4	7	15421	3	KED
⌈	**Cu**	**63**	**52.608**	ug/L	1.835	3	80	265936	3	KED
⌊	**Cu**	**65**	**53.133**	ug/L	1.165	2	43	131741	1	KED
⌈	**Zn**	**66**	**51.485**	ug/L	0.895	1	140	34253	1	KED
⌊	**Zn**	**67**	**51.572**	ug/L	1.358	2	20	5564	1	KED
⌈	**As**	**75**	**49.305**	ug/L	1.307	2	5	17450	2	KED
⌊	**Se**	**78**	**81.361**	ug/L	2.843	3	25	2700	3	KED
	Y	**89**		ug/L			347335	348011	1	Standard
	Kr	**83**		ug/L			53	53	15	Standard
⌈>	**In-1**	**115**		ug/L			11040	10783	1	KED
⌈	**Mo**	**98**	**49.473**	ug/L	0.347	0	7	79061	2	KED
⌈	**Cd**	**111**	**51.766**	ug/L	1.831	3	7	17172	4	KED
⌊	**Cd**	**114**	**52.109**	ug/L	1.115	2	9	44293	3	KED
⌈>	**In**	**115**		ug/L			434426	427601	1	Standard
⌈	**Ag**	**107**	**52.742**	ug/L	0.555	1	42	920785	0	Standard
⌈	**Sb**	**121**	**50.003**	ug/L	0.382	0	205	717210	0	Standard
⌊	**Sb**	**123**	**49.925**	ug/L	0.331	0	131	547031	0	Standard
⌈	**Ba**	**135**	**51.427**	ug/L	1.821	3	60	234223	3	Standard
⌊	**Ba**	**137**	**52.644**	ug/L	0.858	1	114	419569	2	Standard
⌈>	**Tb**	**159**		ug/L			798416	780030	2	Standard
⌈	**Tl**	**205**	**51.200**	ug/L	1.060	2	218	1699173	0	Standard
⌊	**Pb**	**208**	**51.561**	ug/L	0.378	0	288	2275847	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 18:09:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			449997	420562	3	Standard
[	**Be**	**9**	**-0.001**	ug/L	0.001	166	11	7	66	Standard
	C	**13**		ug/L			29409	27709	3	Standard
	Cl	**37**		ug/L			1805078	1796631	1	Standard
[>	**Sc**	**45**		ug/L			595718	571721	3	Standard
[	**V**	**51**	**0.019**	ug/L	0.012	63	6858	7054	3	Standard
[	**V-1**	**51**	**-0.000**	ug/L	0.000	60	607	572	3	Standard
[	**Cr**	**52**	**0.069**	ug/L	0.033	48	20299	20878	2	Standard
[	**Cr**	**53**	**0.002**	ug/L	0.012	762	294	286	9	Standard
[	**Mn**	**55**	**0.002**	ug/L	0.002	98	569	594	9	Standard
[>	**Ge**	**72**		ug/L			49648	49672	1	KED
[	**Co**	**59**	**-0.000**	ug/L	0.000	145	6	5	33	KED
[	**Ni**	**60**	**-0.010**	ug/L	0.008	74	69	51	25	KED
[	**Ni**	**62**	**-0.000**	ug/L	0.006	22483	7	7	25	KED
[	**Cu**	**63**	**0.001**	ug/L	0.002	284	80	83	12	KED
[	**Cu**	**65**	**-0.003**	ug/L	0.004	131	43	36	24	KED
[	**Zn**	**66**	**-0.016**	ug/L	0.020	125	140	130	8	KED
[	**Zn**	**67**	**0.024**	ug/L	0.039	161	20	23	16	KED
[	**As**	**75**	**-0.004**	ug/L	0.006	140	5	4	43	KED
[	**Se**	**78**	**-0.122**	ug/L	0.089	73	25	21	12	KED
	Y	**89**		ug/L			347335	336296	4	Standard
	Kr	**83**		ug/L			53	53	24	Standard
[>	**In-1**	**115**		ug/L			11040	10770	7	KED
[	**Mo**	**98**	**0.008**	ug/L	0.003	30	7	20	24	KED
[	**Cd**	**111**	**0.001**	ug/L	0.004	312	7	7	25	KED
[	**Cd**	**114**	**-0.003**	ug/L	0.006	199	9	7	78	KED
[>	**In**	**115**		ug/L			434426	426101	3	Standard
[	**Ag**	**107**	**0.003**	ug/L	0.001	38	42	88	20	Standard
[	**Sb**	**121**	**0.023**	ug/L	0.004	17	205	522	11	Standard
[	**Sb**	**123**	**0.026**	ug/L	0.002	9	131	408	4	Standard
[	**Ba**	**135**	**-0.001**	ug/L	0.005	594	60	55	33	Standard
[	**Ba**	**137**	**-0.002**	ug/L	0.002	112	114	100	12	Standard
[>	**Tb**	**159**		ug/L			798416	748881	4	Standard
[	**Tl**	**205**	**0.001**	ug/L	0.000	42	218	231	1	Standard
[	**Pb**	**208**	**-0.001**	ug/L	0.000	38	288	219	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 18:15:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			449997	461337	2	Standard
⌊	**Be**	**9**	**49.654**	ug/L	1.044	2	11	187745	3	Standard
	C	**13**		ug/L			29409	27364	5	Standard
	Cl	**37**		ug/L			1805078	1782580	1	Standard
⌈>	**Sc**	**45**		ug/L			595718	619110	1	Standard
⌈	**V**	**51**	**49.610**	ug/L	1.139	2	6858	1345866	1	Standard
⌊	**V-1**	**51**	**49.886**	ug/L	0.898	1	607	1352604	1	Standard
⌈	**Cr**	**52**	**50.725**	ug/L	0.396	0	20299	1147634	1	Standard
⌊	**Cr**	**53**	**51.649**	ug/L	1.231	2	294	131837	4	Standard
⌊	**Mn**	**55**	**50.540**	ug/L	0.726	1	569	1633246	3	Standard
⌈>	**Ge**	**72**		ug/L			49648	47899	2	KED
⌈	**Co**	**59**	**51.063**	ug/L	0.391	0	6	305161	2	KED
⌊	**Ni**	**60**	**51.323**	ug/L	0.087	0	69	87480	2	KED
⌈	**Ni**	**62**	**50.065**	ug/L	0.318	0	7	13980	2	KED
⌈	**Cu**	**63**	**50.605**	ug/L	0.899	1	80	243582	2	KED
⌊	**Cu**	**65**	**51.476**	ug/L	0.400	0	43	121543	2	KED
⌈	**Zn**	**66**	**51.097**	ug/L	0.600	1	140	32373	3	KED
⌊	**Zn**	**67**	**51.569**	ug/L	2.280	4	20	5294	2	KED
⌈	**As**	**75**	**50.243**	ug/L	0.816	1	5	16933	3	KED
⌊	**Se**	**78**	**50.890**	ug/L	0.946	1	25	1616	1	KED
	Y	**89**		ug/L			347335	365335	2	Standard
	Kr	**83**		ug/L			53	57	18	Standard
⌈>	**In-1**	**115**		ug/L			11040	10566	4	KED
⌈	**Mo**	**98**	**49.467**	ug/L	1.270	2	7	77397	1	KED
⌈	**Cd**	**111**	**50.181**	ug/L	0.622	1	7	16301	3	KED
⌊	**Cd**	**114**	**51.105**	ug/L	1.072	2	9	42533	2	KED
⌈>	**In**	**115**		ug/L			434426	441730	0	Standard
⌈	**Ag**	**107**	**52.240**	ug/L	1.895	3	42	942312	4	Standard
⌈	**Sb**	**121**	**49.861**	ug/L	1.469	2	205	738852	3	Standard
⌊	**Sb**	**123**	**50.237**	ug/L	1.739	3	131	568718	4	Standard
⌈	**Ba**	**135**	**51.278**	ug/L	1.417	2	60	241247	2	Standard
⌊	**Ba**	**137**	**51.654**	ug/L	0.888	1	114	425221	1	Standard
⌈>	**Tb**	**159**		ug/L			798416	833630	2	Standard
⌈	**Tl**	**205**	**49.034**	ug/L	0.416	0	218	1739735	2	Standard
⌊	**Pb**	**208**	**49.271**	ug/L	1.130	2	288	2323505	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 18:22:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			449997	441029	2	Standard
	Be	**9**	**-0.002**	ug/L	0.001	27	11	3	50	Standard
	C	**13**		ug/L			29409	28073	1	Standard
	Cl	**37**		ug/L			1805078	1817567	1	Standard
>	**Sc**	**45**		ug/L			595718	591242	2	Standard
	V	**51**	**0.017**	ug/L	0.012	72	6858	7242	3	Standard
	V-1	**51**	**-0.002**	ug/L	0.000	26	607	559	0	Standard
	Cr	**52**	**0.065**	ug/L	0.038	58	20299	21516	2	Standard
	Cr	**53**	**0.001**	ug/L	0.009	1100	294	294	7	Standard
	Mn	**55**	**0.001**	ug/L	0.000	39	569	593	4	Standard
>	**Ge**	**72**		ug/L			49648	49174	3	KED
	Co	**59**	**0.000**	ug/L	0.000	1895	6	6	15	KED
	Ni	**60**	**0.003**	ug/L	0.007	232	69	73	15	KED
	Ni	**62**	**0.015**	ug/L	0.032	206	7	12	77	KED
	Cu	**63**	**-0.002**	ug/L	0.000	22	80	71	1	KED
	Cu	**65**	**-0.002**	ug/L	0.003	157	43	38	22	KED
	Zn	**66**	**-0.009**	ug/L	0.014	151	140	133	9	KED
	Zn	**67**	**0.013**	ug/L	0.039	298	20	22	21	KED
	As	**75**	**-0.003**	ug/L	0.002	76	5	4	11	KED
	Se	**78**	**-0.187**	ug/L	0.141	75	25	18	20	KED
	Y	**89**		ug/L			347335	341038	3	Standard
	Kr	**83**		ug/L			53	54	24	Standard
>	**In-1**	**115**		ug/L			11040	11496	1	KED
	Mo	**98**	**0.011**	ug/L	0.004	33	7	27	22	KED
	Cd	**111**	**-0.009**	ug/L	0.007	76	7	4	53	KED
	Cd	**114**	**-0.006**	ug/L	0.003	52	9	4	61	KED
>	**In**	**115**		ug/L			434426	430983	2	Standard
	Ag	**107**	**0.002**	ug/L	0.000	19	42	71	7	Standard
	Sb	**121**	**0.049**	ug/L	0.001	2	205	913	1	Standard
	Sb	**123**	**0.051**	ug/L	0.006	11	131	695	9	Standard
	Ba	**135**	**-0.002**	ug/L	0.002	111	60	52	12	Standard
	Ba	**137**	**-0.002**	ug/L	0.001	31	114	94	4	Standard
>	**Tb**	**159**		ug/L			798416	781385	2	Standard
	Tl	**205**	**0.001**	ug/L	0.001	37	218	259	6	Standard
	Pb	**208**	**-0.001**	ug/L	0.000	24	288	216	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 18:27:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			449997	430291	3	Standard
⌊	**Be**	**9**	**0.200**	ug/L	0.005	2	11	715	3	Standard
	C	**13**		ug/L			29409	28935	2	Standard
	Cl	**37**		ug/L			1805078	1801250	1	Standard
⌈>	**Sc**	**45**		ug/L			595718	584394	2	Standard
⌈	**V**	**51**	**0.212**	ug/L	0.012	5	6858	12123	2	Standard
⌊	**V-1**	**51**	**0.196**	ug/L	0.005	2	607	5620	0	Standard
⌈	**Cr**	**52**	**0.554**	ug/L	0.035	6	20299	31513	1	Standard
⌊	**Cr**	**53**	**0.496**	ug/L	0.021	4	294	1481	1	Standard
⌊	**Mn**	**55**	**0.502**	ug/L	0.003	0	569	15857	1	Standard
⌈>	**Ge**	**72**		ug/L			49648	46541	1	KED
⌈	**Co**	**59**	**0.211**	ug/L	0.008	3	6	1231	1	KED
⌊	**Ni**	**60**	**0.496**	ug/L	0.019	3	69	886	5	KED
⌈	**Ni**	**62**	**0.447**	ug/L	0.044	9	7	128	8	KED
⌈	**Cu**	**63**	**0.536**	ug/L	0.004	0	80	2579	2	KED
⌊	**Cu**	**65**	**0.544**	ug/L	0.024	4	43	1287	2	KED
⌈	**Zn**	**66**	**6.153**	ug/L	0.246	4	140	3905	5	KED
⌊	**Zn**	**67**	**6.009**	ug/L	0.047	0	20	617	1	KED
⌈	**As**	**75**	**0.189**	ug/L	0.015	7	5	67	8	KED
⌊	**Se**	**78**	**0.303**	ug/L	0.080	26	25	32	6	KED
	Y	**89**		ug/L			347335	341354	1	Standard
	Kr	**83**		ug/L			53	55	14	Standard
⌈>	**In-1**	**115**		ug/L			11040	10341	3	KED
⌈	**Mo**	**98**	**0.182**	ug/L	0.025	13	7	286	16	KED
⌈	**Cd**	**111**	**0.092**	ug/L	0.009	9	7	36	9	KED
⌊	**Cd**	**114**	**0.096**	ug/L	0.020	21	9	87	18	KED
⌈>	**In**	**115**		ug/L			434426	417991	2	Standard
⌈	**Ag**	**107**	**0.214**	ug/L	0.002	1	42	3698	2	Standard
⌈	**Sb**	**121**	**0.203**	ug/L	0.007	3	205	3047	5	Standard
⌊	**Sb**	**123**	**0.206**	ug/L	0.005	2	131	2328	3	Standard
⌈	**Ba**	**135**	**0.488**	ug/L	0.025	5	60	2230	6	Standard
⌊	**Ba**	**137**	**0.516**	ug/L	0.007	1	114	4132	4	Standard
⌈>	**Tb**	**159**		ug/L			798416	778026	1	Standard
⌈	**Tl**	**205**	**0.193**	ug/L	0.004	2	218	6597	2	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.001	1	288	4684	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 18:33:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			449997	469789	0	Standard
	Be	**9**	**0.009**	ug/L	0.002	21	11	45	14	Standard
	C	**13**		ug/L			29409	127482	1	Standard
	Cl	**37**		ug/L			1805078	2351127	1	Standard
>	**Sc**	**45**		ug/L			595718	580244	1	Standard
	V	**51**	**0.099**	ug/L	0.051	51	6858	9183	14	Standard
	V-1	**51**	**1.952**	ug/L	0.059	3	607	50168	1	Standard
	Cr	**52**	**0.775**	ug/L	0.047	6	20299	35905	1	Standard
	Cr	**53**	**7.075**	ug/L	0.242	3	294	17164	2	Standard
	Mn	**55**	**0.094**	ug/L	0.001	1	569	3403	0	Standard
>	**Ge**	**72**		ug/L			49648	44061	1	KED
	Co	**59**	**0.037**	ug/L	0.004	10	6	210	9	KED
	Ni	**60**	**0.073**	ug/L	0.020	27	69	175	17	KED
	Ni	**62**	**0.112**	ug/L	0.025	21	7	35	18	KED
	Cu	**63**	**0.040**	ug/L	0.003	6	80	250	3	KED
	Cu	**65**	**0.044**	ug/L	0.007	15	43	133	12	KED
	Zn	**66**	**0.269**	ug/L	0.063	23	140	281	13	KED
	Zn	**67**	**0.322**	ug/L	0.065	20	20	48	11	KED
	As	**75**	**0.030**	ug/L	0.010	33	5	14	22	KED
	Se	**78**	**-0.052**	ug/L	0.133	257	25	20	19	KED
	Y	**89**		ug/L			347335	334513	2	Standard
	Kr	**83**		ug/L			53	61	9	Standard
>	**In-1**	**115**		ug/L			11040	10093	2	KED
	Mo	**98**	**403.587**	ug/L	7.402	1	7	603402	1	KED
	Cd	**111**	**0.102**	ug/L	0.004	3	7	38	5	KED
	Cd	**114**	**0.085**	ug/L	0.021	24	9	76	23	KED
>	**In**	**115**		ug/L			434426	425450	1	Standard
	Ag	**107**	**0.010**	ug/L	0.001	7	42	222	6	Standard
	Sb	**121**	**0.039**	ug/L	0.004	9	205	763	6	Standard
	Sb	**123**	**0.043**	ug/L	0.003	7	131	598	4	Standard
	Ba	**135**	**0.117**	ug/L	0.002	2	60	587	3	Standard
	Ba	**137**	**0.115**	ug/L	0.006	5	114	1020	3	Standard
>	**Tb**	**159**		ug/L			798416	856122	1	Standard
	Tl	**205**	**0.013**	ug/L	0.001	7	218	694	6	Standard
	Pb	**208**	**0.030**	ug/L	0.002	7	288	1764	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 18:38:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			449997	488991	6	Standard
[	**Be**	**9**	**0.006**	ug/L	0.003	52	11	37	37	Standard
	C	**13**		ug/L			29409	133618	1	Standard
	Cl	**37**		ug/L			1805078	2259116	1	Standard
[>	**Sc**	**45**		ug/L			595718	575052	4	Standard
[	**V**	**51**	**-0.065**	ug/L	0.038	58	6858	4993	20	Standard
[	**V-1**	**51**	**1.918**	ug/L	0.004	0	607	48870	4	Standard
[	**Cr**	**52**	**19.838**	ug/L	0.431	2	20299	428692	2	Standard
[	**Cr**	**53**	**26.306**	ug/L	0.348	1	294	62473	2	Standard
[	**Mn**	**55**	**19.216**	ug/L	0.126	0	569	577048	4	Standard
[>	**Ge**	**72**		ug/L			49648	46367	4	KED
[	**Co**	**59**	**20.411**	ug/L	0.429	2	6	118033	3	KED
[	**Ni**	**60**	**20.568**	ug/L	0.090	0	69	33979	4	KED
[	**Ni**	**62**	**20.412**	ug/L	0.121	0	7	5521	4	KED
[	**Cu**	**63**	**20.366**	ug/L	0.225	1	80	94925	3	KED
[	**Cu**	**65**	**20.923**	ug/L	0.324	1	43	47827	3	KED
[	**Zn**	**66**	**19.373**	ug/L	0.338	1	140	11966	5	KED
[	**Zn**	**67**	**18.486**	ug/L	0.174	0	20	1851	5	KED
[	**As**	**75**	**20.267**	ug/L	0.109	0	5	6614	4	KED
[	**Se**	**78**	**-0.117**	ug/L	0.100	85	25	19	11	KED
	Y	**89**		ug/L			347335	330187	6	Standard
	Kr	**83**		ug/L			53	57	15	Standard
[>	**In-1**	**115**		ug/L			11040	10462	4	KED
[	**Mo**	**98**	**418.373**	ug/L	9.268	2	7	648263	2	KED
[	**Cd**	**111**	**20.808**	ug/L	0.274	1	7	6700	4	KED
[	**Cd**	**114**	**20.635**	ug/L	0.230	1	9	17022	4	KED
[>	**In**	**115**		ug/L			434426	430695	5	Standard
[	**Ag**	**107**	**17.920**	ug/L	0.226	1	42	315120	5	Standard
[	**Sb**	**121**	**0.031**	ug/L	0.002	7	205	649	3	Standard
[	**Sb**	**123**	**0.032**	ug/L	0.003	9	131	478	0	Standard
[	**Ba**	**135**	**0.150**	ug/L	0.006	3	60	746	3	Standard
[	**Ba**	**137**	**0.143**	ug/L	0.008	5	114	1256	3	Standard
[>	**Tb**	**159**		ug/L			798416	875218	3	Standard
[	**Tl**	**205**	**0.005**	ug/L	0.001	12	218	426	5	Standard
[	**Pb**	**208**	**0.025**	ug/L	0.001	3	288	1530	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 18:43:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			449997	425040	2	Standard
	Be	**9**	**195.159**	ug/L	8.453	4	11	679429	3	Standard
	C	**13**		ug/L			29409	33994	1	Standard
	Cl	**37**		ug/L			1805078	1454996	2	Standard
>	**Sc**	**45**		ug/L			595718	553057	2	Standard
	V	**51**	**199.201**	ug/L	4.217	2	6858	4809216	2	Standard
	V-1	**51**	**199.272**	ug/L	2.823	1	607	4825391	2	Standard
	Cr	**52**	**199.326**	ug/L	3.013	1	20299	3973766	3	Standard
	Cr	**53**	**199.566**	ug/L	2.167	1	294	454208	3	Standard
	Mn	**55**	**199.487**	ug/L	7.156	3	569	5756462	4	Standard
>	**Ge**	**72**		ug/L			49648	44380	2	KED
	Co	**59**	**200.747**	ug/L	1.975	0	6	1111299	1	KED
	Ni	**60**	**203.177**	ug/L	1.376	0	69	320665	1	KED
	Ni	**62**	**200.270**	ug/L	3.776	1	7	51777	0	KED
	Cu	**63**	**203.192**	ug/L	2.551	1	80	905779	0	KED
	Cu	**65**	**207.052**	ug/L	2.005	0	43	452812	2	KED
	Zn	**66**	**199.218**	ug/L	2.043	1	140	116564	2	KED
	Zn	**67**	**199.369**	ug/L	6.644	3	20	18915	1	KED
	As	**75**	**203.655**	ug/L	3.340	1	5	63561	1	KED
	Se	**78**	**197.364**	ug/L	3.207	1	25	5745	0	KED
	Y	**89**		ug/L			347335	323348	1	Standard
	Kr	**83**		ug/L			53	76	10	Standard
>	**In-1**	**115**		ug/L			11040	10215	5	KED
	Mo	**98**	**211.949**	ug/L	4.167	1	7	320698	4	KED
	Cd	**111**	**203.685**	ug/L	3.744	1	7	63936	4	KED
	Cd	**114**	**203.403**	ug/L	10.330	5	9	163432	1	KED
>	**In**	**115**		ug/L			434426	404343	4	Standard
	Ag	**107**	**200.481**	ug/L	4.229	2	42	3307983	2	Standard
	Sb	**121**	**207.629**	ug/L	8.489	4	205	2813036	2	Standard
	Sb	**123**	**212.085**	ug/L	9.225	4	131	2194776	1	Standard
	Ba	**135**	**197.773**	ug/L	6.069	3	60	851432	4	Standard
	Ba	**137**	**203.911**	ug/L	6.473	3	114	1535108	1	Standard
>	**Tb**	**159**		ug/L			798416	793020	2	Standard
	Tl	**205**	**203.006**	ug/L	3.547	1	218	6849655	1	Standard
	Pb	**208**	**201.127**	ug/L	4.519	2	288	9025290	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 18:48:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			449997	401145	6	Standard
⌊	**Be**	**9**	**294.334**	ug/L	5.767	1	11	966924	4	Standard
	C	**13**		ug/L			29409	34643	4	Standard
	Cl	**37**		ug/L			1805078	1380889	3	Standard
⌈>	**Sc**	**45**		ug/L			595718	527221	6	Standard
⌈	**V**	**51**	**308.420**	ug/L	10.575	3	6858	7084800	3	Standard
⌊	**V-1**	**51**	**307.711**	ug/L	9.893	3	607	7093222	3	Standard
⌈	**Cr**	**52**	**303.043**	ug/L	7.731	2	20299	5744412	4	Standard
⌊	**Cr**	**53**	**300.708**	ug/L	6.535	2	294	651811	5	Standard
⌊	**Mn**	**55**	**298.991**	ug/L	12.457	4	569	8209235	2	Standard
⌈>	**Ge**	**72**		ug/L			49648	44342	5	KED
⌈	**Co**	**59**	**305.908**	ug/L	4.672	1	6	1691745	4	KED
⌈	**Ni**	**60**	**298.698**	ug/L	1.673	0	69	470934	4	KED
⌊	**Ni**	**62**	**299.276**	ug/L	5.746	1	7	77278	3	KED
⌈	**Cu**	**63**	**295.223**	ug/L	2.463	0	80	1314936	4	KED
⌊	**Cu**	**65**	**301.477**	ug/L	3.095	1	43	658526	4	KED
⌈	**Zn**	**66**	**285.467**	ug/L	5.938	2	140	166718	3	KED
⌊	**Zn**	**67**	**291.072**	ug/L	6.110	2	20	27584	4	KED
⌈	**As**	**75**	**300.883**	ug/L	3.153	1	5	93806	4	KED
⌊	**Se**	**78**	**289.017**	ug/L	1.992	0	25	8396	4	KED
	Y	**89**		ug/L			347335	313366	5	Standard
	Kr	**83**		ug/L			53	104	0	Standard
⌈>	**In-1**	**115**		ug/L			11040	9639	1	KED
⌈	**Mo**	**98**	**317.271**	ug/L	3.332	1	7	453096	1	KED
⌈	**Cd**	**111**	**302.386**	ug/L	3.232	1	7	89599	0	KED
⌊	**Cd**	**114**	**300.173**	ug/L	2.157	0	9	227978	1	KED
⌈>	**In**	**115**		ug/L			434426	377591	4	Standard
⌈	**Ag**	**107**	**297.498**	ug/L	6.678	2	42	4585408	4	Standard
⌈	**Sb**	**121**	**313.843**	ug/L	4.269	1	205	3972649	3	Standard
⌊	**Sb**	**123**	**313.493**	ug/L	6.913	2	131	3032653	4	Standard
⌈	**Ba**	**135**	**293.753**	ug/L	4.130	1	60	1181193	4	Standard
⌊	**Ba**	**137**	**309.312**	ug/L	8.331	2	114	2175488	4	Standard
⌈>	**Tb**	**159**		ug/L			798416	744900	3	Standard
⌈	**Tl**	**205**	**300.256**	ug/L	3.788	1	218	9516496	3	Standard
⌊	**Pb**	**208**	**299.835**	ug/L	0.992	0	288	12637397	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 18:56:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			449997	436415	3	Standard
	Be	**9**	**0.000**	ug/L	0.001	445	11	12	36	Standard
	C	**13**		ug/L			29409	30515	3	Standard
	Cl	**37**		ug/L			1805078	1752809	1	Standard
>	**Sc**	**45**		ug/L			595718	576917	4	Standard
	V	**51**	**0.014**	ug/L	0.006	43	6858	6981	2	Standard
	V-1	**51**	**0.018**	ug/L	0.002	12	607	1039	4	Standard
	Cr	**52**	**0.038**	ug/L	0.016	41	20299	20437	3	Standard
	Cr	**53**	**0.052**	ug/L	0.003	6	294	409	5	Standard
	Mn	**55**	**0.008**	ug/L	0.001	14	569	781	5	Standard
>	**Ge**	**72**		ug/L			49648	50165	0	KED
	Co	**59**	**-0.000**	ug/L	0.000	307	6	6	34	KED
	Ni	**60**	**-0.013**	ug/L	0.009	71	69	46	34	KED
	Ni	**62**	**0.015**	ug/L	0.010	67	7	12	24	KED
	Cu	**63**	**0.006**	ug/L	0.001	10	80	108	3	KED
	Cu	**65**	**0.000**	ug/L	0.004	1104	43	44	20	KED
	Zn	**66**	**-0.118**	ug/L	0.015	12	140	64	15	KED
	Zn	**67**	**-0.091**	ug/L	0.082	90	20	11	76	KED
	As	**75**	**0.005**	ug/L	0.005	113	5	7	25	KED
	Se	**78**	**0.063**	ug/L	0.024	38	25	27	3	KED
	Y	**89**		ug/L			347335	329564	4	Standard
	Kr	**83**		ug/L			53	43	13	Standard
>	**In-1**	**115**		ug/L			11040	10749	2	KED
	Mo	**98**	**0.029**	ug/L	0.014	48	7	54	41	KED
	Cd	**111**	**0.005**	ug/L	0.011	234	7	8	38	KED
	Cd	**114**	**0.006**	ug/L	0.007	118	9	14	42	KED
>	**In**	**115**		ug/L			434426	426699	7	Standard
	Ag	**107**	**0.009**	ug/L	0.002	19	42	200	9	Standard
	Sb	**121**	**0.196**	ug/L	0.010	4	205	3003	4	Standard
	Sb	**123**	**0.197**	ug/L	0.008	3	131	2282	5	Standard
	Ba	**135**	**-0.002**	ug/L	0.002	80	60	48	19	Standard
	Ba	**137**	**-0.005**	ug/L	0.001	11	114	76	10	Standard
>	**Tb**	**159**		ug/L			798416	780184	4	Standard
	Tl	**205**	**0.012**	ug/L	0.000	2	218	601	6	Standard
	Pb	**208**	**-0.001**	ug/L	0.000	38	288	243	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 19:03:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			449997	465712	3	Standard
⌊	**Be**	**9**	**-0.001**	ug/L	0.001	109	11	8	32	Standard
	C	**13**		ug/L			29409	31404	1	Standard
	Cl	**37**		ug/L			1805078	1763583	1	Standard
⌈>	**Sc**	**45**		ug/L			595718	613054	0	Standard
⌈	**V**	**51**	**0.011**	ug/L	0.002	18	6858	7353	0	Standard
⌊	**V-1**	**51**	**0.011**	ug/L	0.001	12	607	913	4	Standard
⌈	**Cr**	**52**	**0.037**	ug/L	0.006	16	20299	21706	0	Standard
⌊	**Cr**	**53**	**0.036**	ug/L	0.007	19	294	393	4	Standard
⌊	**Mn**	**55**	**0.008**	ug/L	0.001	17	569	832	4	Standard
⌈>	**Ge**	**72**		ug/L			49648	47335	2	KED
⌈	**Co**	**59**	**-0.001**	ug/L	0.001	86	6	3	91	KED
⌊	**Ni**	**60**	**-0.014**	ug/L	0.002	10	69	41	9	KED
⌈	**Ni**	**62**	**0.013**	ug/L	0.013	104	7	10	36	KED
⌈	**Cu**	**63**	**0.005**	ug/L	0.001	26	80	97	5	KED
⌊	**Cu**	**65**	**0.006**	ug/L	0.006	90	43	56	27	KED
⌈	**Zn**	**66**	**-0.095**	ug/L	0.026	27	140	74	20	KED
⌊	**Zn**	**67**	**-0.085**	ug/L	0.047	55	20	11	44	KED
⌈	**As**	**75**	**0.004**	ug/L	0.003	71	5	6	15	KED
⌊	**Se**	**78**	**0.022**	ug/L	0.069	318	25	24	11	KED
	Y	**89**		ug/L			347335	353910	0	Standard
	Kr	**83**		ug/L			53	48	11	Standard
⌈>	**In-1**	**115**		ug/L			11040	10737	5	KED
⌈	**Mo**	**98**	**0.019**	ug/L	0.008	38	7	37	27	KED
⌈	**Cd**	**111**	**0.002**	ug/L	0.003	201	7	7	12	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.003	113	9	7	26	KED
⌈>	**In**	**115**		ug/L			434426	460645	1	Standard
⌈	**Ag**	**107**	**0.001**	ug/L	0.001	65	42	71	24	Standard
⌈	**Sb**	**121**	**0.057**	ug/L	0.005	8	205	1102	4	Standard
⌊	**Sb**	**123**	**0.061**	ug/L	0.004	6	131	863	3	Standard
⌈	**Ba**	**135**	**-0.003**	ug/L	0.001	22	60	51	3	Standard
⌊	**Ba**	**137**	**-0.005**	ug/L	0.001	20	114	77	10	Standard
⌈>	**Tb**	**159**		ug/L			798416	815634	1	Standard
⌈	**Tl**	**205**	**0.004**	ug/L	0.001	33	218	346	10	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	24	288	262	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 19:09:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			449997	461984	1	Standard
⌊	**Be**	**9**	**50.545**	ug/L	0.743	1	11	191347	0	Standard
	C	**13**		ug/L			29409	29641	3	Standard
	Cl	**37**		ug/L			1805078	1725594	1	Standard
⌈>	**Sc**	**45**		ug/L			595718	612295	3	Standard
⌈	**V**	**51**	**48.872**	ug/L	1.176	2	6858	1310966	1	Standard
⌊	**V-1**	**51**	**49.251**	ug/L	0.880	1	607	1320365	1	Standard
⌈	**Cr**	**52**	**49.616**	ug/L	1.986	4	20299	1109762	0	Standard
⌊	**Cr**	**53**	**50.897**	ug/L	1.697	3	294	128408	3	Standard
⌊	**Mn**	**55**	**49.100**	ug/L	1.019	2	569	1568373	2	Standard
⌈>	**Ge**	**72**		ug/L			49648	47278	3	KED
⌈	**Co**	**59**	**50.481**	ug/L	1.603	3	6	297615	3	KED
⌈	**Ni**	**60**	**51.458**	ug/L	0.819	1	69	86538	1	KED
⌊	**Ni**	**62**	**51.048**	ug/L	0.644	1	7	14064	2	KED
⌈	**Cu**	**63**	**51.763**	ug/L	1.655	3	80	245846	3	KED
⌊	**Cu**	**65**	**52.750**	ug/L	1.043	1	43	122868	1	KED
⌈	**Zn**	**66**	**51.668**	ug/L	1.000	1	140	32299	3	KED
⌊	**Zn**	**67**	**51.694**	ug/L	0.975	1	20	5239	1	KED
⌈	**As**	**75**	**50.849**	ug/L	0.492	0	5	16910	2	KED
⌊	**Se**	**78**	**50.782**	ug/L	0.943	1	25	1593	4	KED
	Y	**89**		ug/L			347335	355915	4	Standard
	Kr	**83**		ug/L			53	57	28	Standard
⌈>	**In-1**	**115**		ug/L			11040	10794	4	KED
⌈	**Mo**	**98**	**49.896**	ug/L	1.017	2	7	79869	6	KED
⌈	**Cd**	**111**	**50.603**	ug/L	0.226	0	7	16798	4	KED
⌊	**Cd**	**114**	**50.203**	ug/L	1.027	2	9	42735	6	KED
⌈>	**In**	**115**		ug/L			434426	443421	3	Standard
⌈	**Ag**	**107**	**50.603**	ug/L	0.761	1	42	915871	2	Standard
⌈	**Sb**	**121**	**49.983**	ug/L	0.711	1	205	743267	3	Standard
⌊	**Sb**	**123**	**51.656**	ug/L	2.306	4	131	586261	0	Standard
⌈	**Ba**	**135**	**51.776**	ug/L	0.744	1	60	244582	4	Standard
⌊	**Ba**	**137**	**53.097**	ug/L	1.504	2	114	438480	1	Standard
⌈>	**Tb**	**159**		ug/L			798416	845294	0	Standard
⌈	**Tl**	**205**	**49.751**	ug/L	0.354	0	218	1789729	0	Standard
⌊	**Pb**	**208**	**49.752**	ug/L	0.995	1	288	2380032	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 19:18:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			449997	434813	5	Standard
	Be	**9**	**0.000**	ug/L	0.002	588	11	12	70	Standard
	C	**13**		ug/L			29409	29269	1	Standard
	Cl	**37**		ug/L			1805078	1774069	2	Standard
>	**Sc**	**45**		ug/L			595718	567503	7	Standard
	V	**51**	**0.021**	ug/L	0.003	13	6858	7053	6	Standard
	V-1	**51**	**0.006**	ug/L	0.003	40	607	732	3	Standard
	Cr	**52**	**0.081**	ug/L	0.007	8	20299	20989	6	Standard
	Cr	**53**	**0.030**	ug/L	0.009	28	294	350	2	Standard
	Mn	**55**	**0.002**	ug/L	0.000	21	569	595	6	Standard
>	**Ge**	**72**		ug/L			49648	48365	1	KED
	Co	**59**	**-0.001**	ug/L	0.000	80	6	3	91	KED
	Ni	**60**	**0.002**	ug/L	0.007	290	69	71	18	KED
	Ni	**62**	**0.010**	ug/L	0.004	43	7	10	10	KED
	Cu	**63**	**0.001**	ug/L	0.002	135	80	83	9	KED
	Cu	**65**	**-0.000**	ug/L	0.006	2332	43	41	35	KED
	Zn	**66**	**0.003**	ug/L	0.016	565	140	139	6	KED
	Zn	**67**	**0.030**	ug/L	0.066	219	20	23	28	KED
	As	**75**	**0.001**	ug/L	0.010	1146	5	6	55	KED
	Se	**78**	**-0.081**	ug/L	0.121	148	25	21	16	KED
	Y	**89**		ug/L			347335	334888	6	Standard
	Kr	**83**		ug/L			53	50	28	Standard
>	**In-1**	**115**		ug/L			11040	11170	3	KED
	Mo	**98**	**0.009**	ug/L	0.003	30	7	22	22	KED
	Cd	**111**	**0.002**	ug/L	0.013	837	7	7	56	KED
	Cd	**114**	**-0.002**	ug/L	0.006	334	9	8	62	KED
>	**In**	**115**		ug/L			434426	423354	5	Standard
	Ag	**107**	**0.002**	ug/L	0.001	34	42	78	13	Standard
	Sb	**121**	**0.067**	ug/L	0.003	4	205	1156	6	Standard
	Sb	**123**	**0.068**	ug/L	0.002	2	131	867	7	Standard
	Ba	**135**	**-0.001**	ug/L	0.001	103	60	52	7	Standard
	Ba	**137**	**0.000**	ug/L	0.001	2502	114	112	10	Standard
>	**Tb**	**159**		ug/L			798416	782066	5	Standard
	Tl	**205**	**0.003**	ug/L	0.000	13	218	306	6	Standard
	Pb	**208**	**-0.001**	ug/L	0.000	18	288	216	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0249-BLK3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 19:26:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			449997	462015	3	Standard
	Be	**9**	**0.001**	ug/L	0.001	77	11	15	18	Standard
	C	**13**		ug/L			29409	46724	5	Standard
	Cl	**37**		ug/L			1805078	1785130	1	Standard
>	**Sc**	**45**		ug/L			595718	606137	6	Standard
	V	**51**	**0.028**	ug/L	0.014	51	6858	7706	3	Standard
	V-1	**51**	**0.008**	ug/L	0.002	24	607	828	2	Standard
	Cr	**52**	**0.119**	ug/L	0.045	38	20299	23192	3	Standard
	Cr	**53**	**0.049**	ug/L	0.008	17	294	421	4	Standard
	Mn	**55**	**0.050**	ug/L	0.003	6	569	2173	6	Standard
>	**Ge**	**72**		ug/L			49648	50607	2	KED
	Co	**59**	**-0.000**	ug/L	0.000	147	6	5	57	KED
	Ni	**60**	**-0.008**	ug/L	0.008	97	69	55	25	KED
	Ni	**62**	**0.030**	ug/L	0.004	13	7	16	6	KED
	Cu	**63**	**0.021**	ug/L	0.004	19	80	187	11	KED
	Cu	**65**	**0.027**	ug/L	0.009	34	43	109	18	KED
	Zn	**66**	**0.204**	ug/L	0.070	34	140	280	18	KED
	Zn	**67**	**0.297**	ug/L	0.109	36	20	53	19	KED
	As	**75**	**-0.003**	ug/L	0.001	20	5	5	5	KED
	Se	**78**	**-0.165**	ug/L	0.043	26	25	20	9	KED
	Y	**89**		ug/L			347335	351558	2	Standard
	Kr	**83**		ug/L			53	46	31	Standard
>	**In-1**	**115**		ug/L			11040	11374	3	KED
	Mo	**98**	**0.019**	ug/L	0.003	15	7	39	13	KED
	Cd	**111**	**-0.004**	ug/L	0.004	99	7	6	24	KED
	Cd	**114**	**-0.003**	ug/L	0.005	172	9	7	52	KED
>	**In**	**115**		ug/L			434426	440634	3	Standard
	Ag	**107**	**0.001**	ug/L	0.000	14	42	69	7	Standard
	Sb	**121**	**0.030**	ug/L	0.004	11	205	658	10	Standard
	Sb	**123**	**0.037**	ug/L	0.002	4	131	556	5	Standard
	Ba	**135**	**0.021**	ug/L	0.005	23	60	159	15	Standard
	Ba	**137**	**0.025**	ug/L	0.003	11	114	318	6	Standard
>	**Tb**	**159**		ug/L			798416	815291	4	Standard
	Tl	**205**	**-0.001**	ug/L	0.001	120	218	205	14	Standard
	Pb	**208**	**0.003**	ug/L	0.001	17	288	436	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0249-BS3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 19:31:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			449997	489246	1	Standard
	Be	**9**	**26.212**	ug/L	0.961	3	11	105091	3	Standard
	C	**13**		ug/L			29409	49412	1	Standard
	Cl	**37**		ug/L			1805078	1735888	2	Standard
>	**Sc**	**45**		ug/L			595718	649037	2	Standard
	V	**51**	**25.677**	ug/L	0.421	1	6858	733870	1	Standard
	V-1	**51**	**25.743**	ug/L	0.438	1	607	731968	1	Standard
	Cr	**52**	**26.233**	ug/L	0.617	2	20299	632724	0	Standard
	Cr	**53**	**26.451**	ug/L	0.691	2	294	70889	0	Standard
	Mn	**55**	**25.823**	ug/L	0.513	1	569	874835	2	Standard
>	**Ge**	**72**		ug/L			49648	47566	1	KED
	Co	**59**	**25.946**	ug/L	0.504	1	6	153934	0	KED
	Ni	**60**	**26.528**	ug/L	0.882	3	69	44918	1	KED
	Ni	**62**	**25.990**	ug/L	0.312	1	7	7210	2	KED
	Cu	**63**	**26.131**	ug/L	0.600	2	80	124903	0	KED
	Cu	**65**	**26.696**	ug/L	0.862	3	43	62587	1	KED
	Zn	**66**	**85.056**	ug/L	1.463	1	140	53408	0	KED
	Zn	**67**	**81.956**	ug/L	2.629	3	20	8346	1	KED
	As	**75**	**26.340**	ug/L	0.480	1	5	8815	0	KED
	Se	**78**	**84.909**	ug/L	1.766	2	25	2663	0	KED
	Y	**89**		ug/L			347335	383974	1	Standard
	Kr	**83**		ug/L			53	52	22	Standard
>	**In-1**	**115**		ug/L			11040	10689	5	KED
	Mo	**98**	**26.849**	ug/L	0.458	1	7	42508	4	KED
	Cd	**111**	**26.522**	ug/L	1.027	3	7	8710	2	KED
	Cd	**114**	**26.560**	ug/L	0.845	3	9	22355	3	KED
>	**In**	**115**		ug/L			434426	468655	1	Standard
	Ag	**107**	**26.100**	ug/L	0.660	2	42	499337	1	Standard
	Sb	**121**	**26.280**	ug/L	0.170	0	205	413232	1	Standard
	Sb	**123**	**26.575**	ug/L	0.664	2	131	319127	0	Standard
	Ba	**135**	**26.538**	ug/L	0.732	2	60	132463	1	Standard
	Ba	**137**	**27.212**	ug/L	0.325	1	114	237710	0	Standard
>	**Tb**	**159**		ug/L			798416	871776	1	Standard
	Tl	**205**	**25.898**	ug/L	0.721	2	218	961224	4	Standard
	Pb	**208**	**25.773**	ug/L	0.170	0	288	1271670	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0644-BLK2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 19:36:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			449997	447606	4	Standard
	Be	**9**	**-0.001**	ug/L	0.001	122	11	8	48	Standard
	C	**13**		ug/L			29409	44637	4	Standard
	Cl	**37**		ug/L			1805078	1786226	1	Standard
>	**Sc**	**45**		ug/L			595718	593794	5	Standard
	V	**51**	**0.018**	ug/L	0.006	35	6858	7294	4	Standard
	V-1	**51**	**0.004**	ug/L	0.003	69	607	702	5	Standard
	Cr	**52**	**0.083**	ug/L	0.018	21	20299	22009	5	Standard
	Cr	**53**	**0.035**	ug/L	0.002	6	294	379	6	Standard
	Mn	**55**	**0.036**	ug/L	0.001	2	569	1672	4	Standard
>	**Ge**	**72**		ug/L			49648	47970	2	KED
	Co	**59**	**-0.000**	ug/L	0.001	379	6	5	66	KED
	Ni	**60**	**-0.026**	ug/L	0.001	5	69	22	8	KED
	Ni	**62**	**-0.008**	ug/L	0.008	101	7	5	43	KED
	Cu	**63**	**0.013**	ug/L	0.005	38	80	138	15	KED
	Cu	**65**	**0.013**	ug/L	0.006	47	43	72	18	KED
	Zn	**66**	**0.026**	ug/L	0.039	150	140	152	15	KED
	Zn	**67**	**0.075**	ug/L	0.067	88	20	27	23	KED
	As	**75**	**0.004**	ug/L	0.003	67	5	7	13	KED
	Se	**78**	**-0.165**	ug/L	0.057	34	25	19	7	KED
	Y	**89**		ug/L			347335	337874	4	Standard
	Kr	**83**		ug/L			53	57	19	Standard
>	**In-1**	**115**		ug/L			11040	11173	1	KED
	Mo	**98**	**0.015**	ug/L	0.005	30	7	32	23	KED
	Cd	**111**	**-0.005**	ug/L	0.003	54	7	5	16	KED
	Cd	**114**	**-0.002**	ug/L	0.007	370	9	8	69	KED
>	**In**	**115**		ug/L			434426	432229	5	Standard
	Ag	**107**	**0.001**	ug/L	0.001	55	42	64	13	Standard
	Sb	**121**	**0.009**	ug/L	0.001	15	205	335	11	Standard
	Sb	**123**	**0.011**	ug/L	0.001	11	131	253	2	Standard
	Ba	**135**	**0.394**	ug/L	0.014	3	60	1872	5	Standard
	Ba	**137**	**0.398**	ug/L	0.004	0	114	3321	6	Standard
>	**Tb**	**159**		ug/L			798416	798500	4	Standard
	Tl	**205**	**-0.001**	ug/L	0.000	44	218	184	10	Standard
	Pb	**208**	**-0.000**	ug/L	0.001	154	288	267	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0644-BS2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 19:41:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			449997	459326	1	Standard
	Be	9	25.930	ug/L	0.140	0	11	97613	0	Standard
	C	13		ug/L			29409	48751	2	Standard
	Cl	37		ug/L			1805078	1741034	1	Standard
>	Sc	45		ug/L			595718	619098	3	Standard
	V	51	25.184	ug/L	0.556	2	6858	686590	1	Standard
	V-1	51	25.264	ug/L	0.521	2	607	685108	1	Standard
	Cr	52	25.435	ug/L	0.435	1	20299	585846	1	Standard
	Cr	53	25.702	ug/L	0.321	1	294	65726	2	Standard
	Mn	55	25.543	ug/L	0.196	0	569	825502	2	Standard
>	Ge	72		ug/L			49648	49040	2	KED
	Co	59	26.361	ug/L	1.322	5	6	161167	3	KED
	Ni	60	26.903	ug/L	1.247	4	69	46952	3	KED
	Ni	62	26.655	ug/L	0.717	2	7	7621	2	KED
	Cu	63	26.716	ug/L	0.620	2	80	131653	1	KED
	Cu	65	27.368	ug/L	0.867	3	43	66143	1	KED
	Zn	66	84.697	ug/L	2.925	3	140	54811	1	KED
	Zn	67	81.917	ug/L	2.783	3	20	8601	2	KED
	As	75	26.054	ug/L	0.651	2	5	8988	1	KED
	Se	78	84.991	ug/L	1.891	2	25	2747	1	KED
	Y	89		ug/L			347335	357469	3	Standard
	Kr	83		ug/L			53	48	6	Standard
>	In-1	115		ug/L			11040	10612	1	KED
	Mo	98	26.668	ug/L	0.485	1	7	41932	0	KED
	Cd	111	26.523	ug/L	0.661	2	7	8658	2	KED
	Cd	114	26.978	ug/L	0.490	1	9	22569	3	KED
>	In	115		ug/L			434426	450357	4	Standard
	Ag	107	25.943	ug/L	0.447	1	42	476919	3	Standard
	Sb	121	25.680	ug/L	0.511	1	205	387850	2	Standard
	Sb	123	25.524	ug/L	0.484	1	131	294465	2	Standard
	Ba	135	26.916	ug/L	0.639	2	60	129054	2	Standard
	Ba	137	26.950	ug/L	0.608	2	114	226123	2	Standard
>	Tb	159		ug/L			798416	844703	1	Standard
	Tl	205	25.025	ug/L	0.342	1	218	899790	2	Standard
	Pb	208	25.597	ug/L	0.254	0	288	1223703	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0509-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 19:46:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			449997	442874	2	Standard
	Be	**9**	**-0.000**	ug/L	0.001	462	11	10	47	Standard
	C	**13**		ug/L			29409	47526	2	Standard
	Cl	**37**		ug/L			1805078	1822499	2	Standard
>	**Sc**	**45**		ug/L			595718	591638	2	Standard
	V	**51**	**0.083**	ug/L	0.015	17	6858	8954	5	Standard
	V-1	**51**	**0.600**	ug/L	0.015	2	607	16150	4	Standard
	Cr	**52**	**0.836**	ug/L	0.045	5	20299	37908	2	Standard
	Cr	**53**	**2.587**	ug/L	0.052	2	294	6585	2	Standard
	Mn	**55**	**1.982**	ug/L	0.039	1	569	61736	0	Standard
>	**Ge**	**72**		ug/L			49648	49343	1	KED
	Co	**59**	**0.007**	ug/L	0.002	28	6	49	23	KED
	Ni	**60**	**0.886**	ug/L	0.012	1	69	1623	0	KED
	Ni	**62**	**0.921**	ug/L	0.051	5	7	272	7	KED
	Cu	**63**	**0.574**	ug/L	0.011	1	80	2922	2	KED
	Cu	**65**	**0.598**	ug/L	0.013	2	43	1497	1	KED
	Zn	**66**	**18.924**	ug/L	0.597	3	140	12440	4	KED
	Zn	**67**	**18.771**	ug/L	0.289	1	20	2000	3	KED
	As	**75**	**0.697**	ug/L	0.046	6	5	247	8	KED
	Se	**78**	**0.008**	ug/L	0.118	1457	25	25	14	KED
	Y	**89**		ug/L			347335	335767	1	Standard
	Kr	**83**		ug/L			53	42	24	Standard
>	**In-1**	**115**		ug/L			11040	10683	3	KED
	Mo	**98**	**4.952**	ug/L	0.247	4	7	7839	3	KED
	Cd	**111**	**-0.000**	ug/L	0.010	61818	7	6	41	KED
	Cd	**114**	**0.003**	ug/L	0.003	108	9	12	23	KED
>	**In**	**115**		ug/L			434426	425563	0	Standard
	Ag	**107**	**0.002**	ug/L	0.001	44	42	76	19	Standard
	Sb	**121**	**0.166**	ug/L	0.007	4	205	2564	3	Standard
	Sb	**123**	**0.168**	ug/L	0.004	2	131	1964	1	Standard
	Ba	**135**	**10.369**	ug/L	0.369	3	60	47037	3	Standard
	Ba	**137**	**10.762**	ug/L	0.453	4	114	85441	3	Standard
>	**Tb**	**159**		ug/L			798416	796394	3	Standard
	Tl	**205**	**-0.001**	ug/L	0.001	87	218	198	7	Standard
	Pb	**208**	**0.149**	ug/L	0.008	5	288	6987	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0644-DUP2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 19:51:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	Li	6		ug/L			449997	476021	3	Standard
[	Be	9	-0.000	ug/L	0.001	379	11	10	44	Standard
	C	13		ug/L			29409	50519	2	Standard
	Cl	37		ug/L			1805078	1821517	1	Standard
[>	Sc	45		ug/L			595718	641850	2	Standard
[	V	51	0.077	ug/L	0.017	22	6858	9531	3	Standard
[	V-1	51	0.627	ug/L	0.022	3	607	18271	1	Standard
[	Cr	52	0.814	ug/L	0.047	5	20299	40591	1	Standard
[	Cr	53	2.678	ug/L	0.079	2	294	7381	1	Standard
[	Mn	55	1.970	ug/L	0.025	1	569	66553	1	Standard
[>	Ge	72		ug/L			49648	51534	0	KED
[	Co	59	0.006	ug/L	0.002	39	6	45	33	KED
[	Ni	60	0.879	ug/L	0.027	3	69	1682	2	KED
[	Ni	62	0.827	ug/L	0.146	17	7	255	16	KED
[	Cu	63	0.579	ug/L	0.007	1	80	3077	0	KED
[	Cu	65	0.608	ug/L	0.050	8	43	1586	7	KED
[	Zn	66	18.776	ug/L	0.577	3	140	12887	2	KED
[	Zn	67	18.748	ug/L	0.591	3	20	2085	2	KED
[	As	75	0.695	ug/L	0.046	6	5	258	5	KED
[	Se	78	0.071	ug/L	0.060	85	25	28	6	KED
	Y	89		ug/L			347335	362092	1	Standard
	Kr	83		ug/L			53	48	11	Standard
[>	In-1	115		ug/L			11040	10905	3	KED
[	Mo	98	4.777	ug/L	0.065	1	7	7725	2	KED
[	Cd	111	-0.004	ug/L	0.003	77	7	5	16	KED
[	Cd	114	-0.003	ug/L	0.005	148	9	7	51	KED
[>	In	115		ug/L			434426	453213	2	Standard
[	Ag	107	0.002	ug/L	0.000	19	42	72	4	Standard
[	Sb	121	0.162	ug/L	0.004	2	205	2678	0	Standard
[	Sb	123	0.157	ug/L	0.006	3	131	1959	5	Standard
[	Ba	135	10.658	ug/L	0.392	3	60	51465	2	Standard
[	Ba	137	10.990	ug/L	0.237	2	114	92887	0	Standard
[>	Tb	159		ug/L			798416	857878	0	Standard
[	Tl	205	-0.002	ug/L	0.001	28	218	170	11	Standard
[	Pb	208	0.145	ug/L	0.004	2	288	7349	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0644-MS2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 19:56:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			449997	444393	3	Standard
[	**Be**	**9**	**25.316**	ug/L	0.990	3	11	92144	2	Standard
	C	**13**		ug/L			29409	50347	1	Standard
	Cl	**37**		ug/L			1805078	1756167	2	Standard
[>	**Sc**	**45**		ug/L			595718	600709	3	Standard
[	**V**	**51**	**25.666**	ug/L	0.908	3	6858	678645	1	Standard
[	**V-1**	**51**	**26.006**	ug/L	1.124	4	607	683991	1	Standard
[	**Cr**	**52**	**26.531**	ug/L	0.415	1	20299	592054	1	Standard
[	**Cr**	**53**	**27.679**	ug/L	1.182	4	294	68611	1	Standard
[	**Mn**	**55**	**26.980**	ug/L	1.071	3	569	845580	2	Standard
[>	**Ge**	**72**		ug/L			49648	45591	5	KED
[	**Co**	**59**	**25.833**	ug/L	0.382	1	6	146977	6	KED
[	**Ni**	**60**	**27.259**	ug/L	0.270	0	69	44270	6	KED
[	**Ni**	**62**	**26.879**	ug/L	0.854	3	7	7155	9	KED
[	**Cu**	**63**	**26.221**	ug/L	0.418	1	80	120171	6	KED
[	**Cu**	**65**	**27.234**	ug/L	0.236	0	43	61237	6	KED
[	**Zn**	**66**	**99.670**	ug/L	2.426	2	140	60023	8	KED
[	**Zn**	**67**	**97.552**	ug/L	1.090	1	20	9526	7	KED
[	**As**	**75**	**26.770**	ug/L	0.123	0	5	8587	5	KED
[	**Se**	**78**	**80.927**	ug/L	1.290	1	25	2433	4	KED
	Y	**89**		ug/L			347335	347407	0	Standard
	Kr	**83**		ug/L			53	53	14	Standard
[>	**In-1**	**115**		ug/L			11040	10670	1	KED
[	**Mo**	**98**	**31.377**	ug/L	0.813	2	7	49602	1	KED
[	**Cd**	**111**	**25.988**	ug/L	0.591	2	7	8529	0	KED
[	**Cd**	**114**	**25.855**	ug/L	0.462	1	9	21745	1	KED
[>	**In**	**115**		ug/L			434426	429316	2	Standard
[	**Ag**	**107**	**25.859**	ug/L	0.810	3	42	453257	3	Standard
[	**Sb**	**121**	**26.630**	ug/L	0.574	2	205	383496	1	Standard
[	**Sb**	**123**	**26.728**	ug/L	0.233	0	131	294061	1	Standard
[	**Ba**	**135**	**37.456**	ug/L	1.065	2	60	171208	0	Standard
[	**Ba**	**137**	**38.683**	ug/L	1.639	4	114	309356	2	Standard
[>	**Tb**	**159**		ug/L			798416	822805	1	Standard
[	**Tl**	**205**	**25.960**	ug/L	0.385	1	218	909083	1	Standard
[	**Pb**	**208**	**25.934**	ug/L	0.288	1	288	1207620	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0644-MSD2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 20:01:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			449997	464766	2	Standard
	Be	9	26.006	ug/L	0.339	1	11	99065	3	Standard
	C	13		ug/L			29409	51524	2	Standard
	Cl	37		ug/L			1805078	1747720	2	Standard
>	Sc	45		ug/L			595718	628231	3	Standard
	V	51	25.962	ug/L	1.287	4	6858	717611	2	Standard
	V-1	51	26.409	ug/L	1.246	4	607	726301	2	Standard
	Cr	52	26.599	ug/L	0.947	3	20299	620395	0	Standard
	Cr	53	28.113	ug/L	0.868	3	294	72883	0	Standard
	Mn	55	27.908	ug/L	1.277	4	569	914392	2	Standard
>	Ge	72		ug/L			49648	49502	1	KED
	Co	59	26.985	ug/L	0.668	2	6	166666	3	KED
	Ni	60	28.009	ug/L	0.967	3	69	49371	3	KED
	Ni	62	27.817	ug/L	1.294	4	7	8028	4	KED
	Cu	63	26.944	ug/L	0.377	1	80	134075	2	KED
	Cu	65	27.241	ug/L	0.177	0	43	66488	1	KED
	Zn	66	100.792	ug/L	1.433	1	140	65851	2	KED
	Zn	67	97.227	ug/L	0.837	0	20	10304	0	KED
	As	75	26.967	ug/L	0.197	0	5	9394	1	KED
	Se	78	80.080	ug/L	1.619	2	25	2616	3	KED
	Y	89		ug/L			347335	360533	1	Standard
	Kr	83		ug/L			53	53	9	Standard
>	In-1	115		ug/L			11040	10915	2	KED
	Mo	98	32.513	ug/L	1.506	4	7	52547	1	KED
	Cd	111	26.462	ug/L	0.864	3	7	8881	0	KED
	Cd	114	26.866	ug/L	1.327	4	9	23094	2	KED
>	In	115		ug/L			434426	450530	2	Standard
	Ag	107	25.759	ug/L	0.565	2	42	473670	1	Standard
	Sb	121	26.354	ug/L	1.130	4	205	398132	2	Standard
	Sb	123	26.683	ug/L	0.752	2	131	307944	0	Standard
	Ba	135	38.163	ug/L	1.190	3	60	183035	1	Standard
	Ba	137	38.709	ug/L	0.616	1	114	324969	1	Standard
>	Tb	159		ug/L			798416	858521	3	Standard
	Tl	205	25.844	ug/L	0.936	3	218	943610	0	Standard
	Pb	208	26.021	ug/L	0.598	2	288	1263734	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 20:06:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			449997	428237	5	Standard
	Be	**9**	**-0.002**	ug/L	0.001	32	11	5	43	Standard
	C	**13**		ug/L			29409	29264	2	Standard
	Cl	**37**		ug/L			1805078	1774867	1	Standard
>	**Sc**	**45**		ug/L			595718	560405	3	Standard
	V	**51**	**0.015**	ug/L	0.002	15	6858	6806	3	Standard
	V-1	**51**	**0.023**	ug/L	0.001	5	607	1141	1	Standard
	Cr	**52**	**0.061**	ug/L	0.014	23	20299	20325	3	Standard
	Cr	**53**	**0.090**	ug/L	0.009	10	294	485	5	Standard
	Mn	**55**	**0.005**	ug/L	0.001	12	569	667	6	Standard
>	**Ge**	**72**		ug/L			49648	48689	7	KED
	Co	**59**	**0.000**	ug/L	0.000	755	6	6	15	KED
	Ni	**60**	**-0.027**	ug/L	0.003	10	69	20	23	KED
	Ni	**62**	**-0.011**	ug/L	0.010	91	7	4	65	KED
	Cu	**63**	**0.028**	ug/L	0.006	20	80	215	16	KED
	Cu	**65**	**0.033**	ug/L	0.001	1	43	122	7	KED
	Zn	**66**	**0.070**	ug/L	0.013	18	140	183	12	KED
	Zn	**67**	**0.071**	ug/L	0.009	12	20	27	10	KED
	As	**75**	**-0.002**	ug/L	0.002	121	5	5	18	KED
	Se	**78**	**-0.151**	ug/L	0.085	56	25	19	6	KED
	Y	**89**		ug/L			347335	337451	1	Standard
	Kr	**83**		ug/L			53	52	24	Standard
>	**In-1**	**115**		ug/L			11040	10724	5	KED
	Mo	**98**	**0.008**	ug/L	0.005	66	7	20	44	KED
	Cd	**111**	**-0.006**	ug/L	0.004	59	7	5	28	KED
	Cd	**114**	**-0.005**	ug/L	0.004	71	9	5	62	KED
>	**In**	**115**		ug/L			434426	430164	4	Standard
	Ag	**107**	**0.001**	ug/L	0.000	29	42	54	10	Standard
	Sb	**121**	**-0.004**	ug/L	0.002	53	205	147	21	Standard
	Sb	**123**	**-0.003**	ug/L	0.000	18	131	101	1	Standard
	Ba	**135**	**0.000**	ug/L	0.004	1166	60	61	30	Standard
	Ba	**137**	**0.002**	ug/L	0.002	125	114	129	19	Standard
>	**Tb**	**159**		ug/L			798416	776394	4	Standard
	Tl	**205**	**-0.002**	ug/L	0.000	8	218	150	7	Standard
	Pb	**208**	**0.001**	ug/L	0.001	100	288	305	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 20:11:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			449997	449081	0	Standard
⌊	**Be**	**9**	**50.796**	ug/L	1.059	2	11	186967	2	Standard
	C	**13**		ug/L			29409	29635	2	Standard
	Cl	**37**		ug/L			1805078	1750849	2	Standard
⌈>	**Sc**	**45**		ug/L			595718	606708	2	Standard
⌈	**V**	**51**	**49.705**	ug/L	1.230	2	6858	1321342	1	Standard
⌊	**V-1**	**51**	**49.796**	ug/L	1.347	2	607	1322830	1	Standard
⌈	**Cr**	**52**	**49.963**	ug/L	0.556	1	20299	1108138	2	Standard
⌊	**Cr**	**53**	**50.270**	ug/L	0.877	1	294	125695	1	Standard
⌊	**Mn**	**55**	**50.110**	ug/L	0.633	1	569	1586525	2	Standard
⌈>	**Ge**	**72**		ug/L			49648	48773	5	KED
⌈	**Co**	**59**	**50.918**	ug/L	0.349	0	6	309746	4	KED
⌊	**Ni**	**60**	**50.904**	ug/L	1.215	2	69	88331	5	KED
⌈	**Ni**	**62**	**50.631**	ug/L	0.211	0	7	14397	5	KED
⌈	**Cu**	**63**	**50.110**	ug/L	0.960	1	80	245743	7	KED
⌊	**Cu**	**65**	**51.256**	ug/L	0.430	0	43	123230	5	KED
⌈	**Zn**	**66**	**51.339**	ug/L	1.598	3	140	33137	7	KED
⌊	**Zn**	**67**	**52.098**	ug/L	0.997	1	20	5446	3	KED
⌈	**As**	**75**	**50.137**	ug/L	0.519	1	5	17199	4	KED
⌊	**Se**	**78**	**50.583**	ug/L	0.785	1	25	1636	4	KED
	Y	**89**		ug/L			347335	361265	1	Standard
	Kr	**83**		ug/L			53	42	6	Standard
⌈>	**In-1**	**115**		ug/L			11040	9246	3	KED
⌈	**Mo**	**98**	**50.123**	ug/L	1.130	2	7	68651	2	KED
⌊	**Cd**	**111**	**51.407**	ug/L	1.030	2	7	14620	4	KED
⌊	**Cd**	**114**	**50.719**	ug/L	0.492	0	9	36952	2	KED
⌈>	**In**	**115**		ug/L			434426	448175	1	Standard
⌈	**Ag**	**107**	**50.763**	ug/L	1.163	2	42	928949	2	Standard
⌈	**Sb**	**121**	**49.404**	ug/L	1.140	2	205	742569	1	Standard
⌊	**Sb**	**123**	**49.654**	ug/L	0.624	1	131	570210	1	Standard
⌈	**Ba**	**135**	**50.674**	ug/L	2.257	4	60	241791	3	Standard
⌊	**Ba**	**137**	**51.121**	ug/L	0.653	1	114	426966	1	Standard
⌈>	**Tb**	**159**		ug/L			798416	830326	1	Standard
⌈	**Tl**	**205**	**49.365**	ug/L	0.977	1	218	1744252	1	Standard
⌊	**Pb**	**208**	**49.936**	ug/L	0.694	1	288	2346327	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 20:19:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			449997	433562	6	Standard
	Be	**9**	**-0.001**	ug/L	0.001	68	11	6	41	Standard
	C	**13**		ug/L			29409	28426	5	Standard
	Cl	**37**		ug/L			1805078	1803619	1	Standard
>	**Sc**	**45**		ug/L			595718	571344	9	Standard
	V	**51**	**0.017**	ug/L	0.008	44	6858	6989	6	Standard
	V-1	**51**	**0.008**	ug/L	0.004	47	607	767	3	Standard
	Cr	**52**	**0.058**	ug/L	0.017	29	20299	20645	7	Standard
	Cr	**53**	**0.026**	ug/L	0.005	17	294	343	7	Standard
	Mn	**55**	**0.001**	ug/L	0.000	32	569	587	10	Standard
>	**Ge**	**72**		ug/L			49648	49056	0	KED
	Co	**59**	**-0.001**	ug/L	0.000	62	6	3	50	KED
	Ni	**60**	**-0.003**	ug/L	0.007	221	69	62	18	KED
	Ni	**62**	**0.025**	ug/L	0.004	16	7	14	7	KED
	Cu	**63**	**-0.002**	ug/L	0.003	131	80	69	19	KED
	Cu	**65**	**0.002**	ug/L	0.001	30	43	46	2	KED
	Zn	**66**	**0.005**	ug/L	0.023	492	140	142	10	KED
	Zn	**67**	**0.002**	ug/L	0.036	1520	20	20	18	KED
	As	**75**	**-0.003**	ug/L	0.006	223	5	4	39	KED
	Se	**78**	**-0.087**	ug/L	0.155	178	25	21	21	KED
	Y	**89**		ug/L			347335	342863	5	Standard
	Kr	**83**		ug/L			53	52	5	Standard
>	**In-1**	**115**		ug/L			11040	10654	2	KED
	Mo	**98**	**0.006**	ug/L	0.003	42	7	17	22	KED
	Cd	**111**	**-0.000**	ug/L	0.011	56401	7	6	47	KED
	Cd	**114**	**-0.005**	ug/L	0.006	119	9	5	89	KED
>	**In**	**115**		ug/L			434426	427827	6	Standard
	Ag	**107**	**0.001**	ug/L	0.000	26	42	65	4	Standard
	Sb	**121**	**0.047**	ug/L	0.003	7	205	877	11	Standard
	Sb	**123**	**0.046**	ug/L	0.003	6	131	631	9	Standard
	Ba	**135**	**0.001**	ug/L	0.002	136	60	64	16	Standard
	Ba	**137**	**-0.001**	ug/L	0.003	194	114	100	16	Standard
>	**Tb**	**159**		ug/L			798416	781521	3	Standard
	Tl	**205**	**-0.001**	ug/L	0.001	46	218	175	13	Standard
	Pb	**208**	**-0.001**	ug/L	0.000	27	288	224	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0592-BLK2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 20:26:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			449997	451202	6	Standard
	Be	9	-0.002	ug/L	0.001	45	11	5	57	Standard
	C	13		ug/L			29409	42916	5	Standard
	Cl	37		ug/L			1805078	1796223	1	Standard
>	Sc	45		ug/L			595718	600992	6	Standard
	V	51	0.026	ug/L	0.007	26	6858	7594	4	Standard
	V-1	51	0.007	ug/L	0.003	46	607	793	4	Standard
	Cr	52	0.120	ug/L	0.023	18	20299	23054	4	Standard
	Cr	53	0.054	ug/L	0.009	17	294	430	1	Standard
	Mn	55	0.038	ug/L	0.003	8	569	1760	4	Standard
>	Ge	72		ug/L			49648	50100	6	KED
	Co	59	-0.000	ug/L	0.000	109	6	5	33	KED
	Ni	60	-0.019	ug/L	0.003	16	69	35	12	KED
	Ni	62	-0.005	ug/L	0.006	132	7	6	34	KED
	Cu	63	0.095	ug/L	0.006	5	80	559	9	KED
	Cu	65	0.086	ug/L	0.009	10	43	255	9	KED
	Zn	66	0.081	ug/L	0.038	46	140	196	16	KED
	Zn	67	0.064	ug/L	0.009	14	20	27	3	KED
	As	75	-0.003	ug/L	0.005	163	5	4	30	KED
	Se	78	-0.182	ug/L	0.006	3	25	19	7	KED
	Y	89		ug/L			347335	353631	5	Standard
	Kr	83		ug/L			53	56	28	Standard
>	In-1	115		ug/L			11040	11314	2	KED
	Mo	98	0.015	ug/L	0.003	21	7	33	15	KED
	Cd	111	-0.004	ug/L	0.008	196	7	6	50	KED
	Cd	114	-0.003	ug/L	0.000	11	9	7	2	KED
>	In	115		ug/L			434426	441965	4	Standard
	Ag	107	-0.000	ug/L	0.001	225	42	38	23	Standard
	Sb	121	0.012	ug/L	0.002	18	205	386	8	Standard
	Sb	123	0.014	ug/L	0.001	10	131	293	9	Standard
	Ba	135	0.375	ug/L	0.007	1	60	1829	6	Standard
	Ba	137	0.391	ug/L	0.008	2	114	3340	5	Standard
>	Tb	159		ug/L			798416	801669	5	Standard
	Tl	205	-0.003	ug/L	0.000	15	218	125	15	Standard
	Pb	208	0.003	ug/L	0.000	15	288	425	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0592-BS2
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, April 25, 2023 20:31:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			449997	446849	9	Standard
	Be	**9**	**25.013**	ug/L	0.233	0	11	91646	10	Standard
	C	**13**		ug/L			29409	43736	5	Standard
	Cl	**37**		ug/L			1805078	1797593	2	Standard
>	**Sc**	**45**		ug/L			595718	587576	8	Standard
	V	**51**	**25.886**	ug/L	0.451	1	6858	670499	10	Standard
	V-1	**51**	**26.007**	ug/L	0.342	1	607	669827	9	Standard
	Cr	**52**	**26.242**	ug/L	0.691	2	20299	573929	10	Standard
	Cr	**53**	**26.648**	ug/L	0.289	1	294	64639	7	Standard
	Mn	**55**	**27.921**	ug/L	0.471	1	569	856481	9	Standard
>	**Ge**	**72**		ug/L			49648	49225	1	KED
	Co	**59**	**26.306**	ug/L	0.127	0	6	161554	2	KED
	Ni	**60**	**26.394**	ug/L	0.511	1	69	46256	0	KED
	Ni	**62**	**26.920**	ug/L	0.346	1	7	7727	0	KED
	Cu	**63**	**27.336**	ug/L	0.444	1	80	135260	2	KED
	Cu	**65**	**28.408**	ug/L	0.364	1	43	68944	2	KED
	Zn	**66**	**85.611**	ug/L	0.605	0	140	55637	1	KED
	Zn	**67**	**82.639**	ug/L	1.925	2	20	8714	3	KED
	As	**75**	**25.697**	ug/L	0.052	0	5	8902	1	KED
	Se	**78**	**82.783**	ug/L	1.553	1	25	2688	3	KED
	Y	**89**		ug/L			347335	354665	6	Standard
	Kr	**83**		ug/L			53	48	12	Standard
>	**In-1**	**115**		ug/L			11040	11659	3	KED
	Mo	**98**	**25.653**	ug/L	0.594	2	7	44304	1	KED
	Cd	**111**	**26.776**	ug/L	0.876	3	7	9598	0	KED
	Cd	**114**	**26.543**	ug/L	1.363	5	9	24366	1	KED
>	**In**	**115**		ug/L			434426	436424	5	Standard
	Ag	**107**	**26.964**	ug/L	0.304	1	42	480614	6	Standard
	Sb	**121**	**25.652**	ug/L	0.100	0	205	375574	5	Standard
	Sb	**123**	**25.896**	ug/L	0.434	1	131	289836	7	Standard
	Ba	**135**	**27.073**	ug/L	0.129	0	60	125874	6	Standard
	Ba	**137**	**27.706**	ug/L	0.372	1	114	225532	7	Standard
>	**Tb**	**159**		ug/L			798416	802542	6	Standard
	Tl	**205**	**26.366**	ug/L	0.505	1	218	900629	6	Standard
	Pb	**208**	**26.520**	ug/L	0.663	2	288	1205222	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0660-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 20:37:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			449997	462052	1	Standard
	Be	9	-0.002	ug/L	0.000	1	11	5	0	Standard
	C	13		ug/L			29409	40118	4	Standard
	Cl	37		ug/L			1805078	1812394	1	Standard
>	Sc	45		ug/L			595718	610797	0	Standard
	V	51	0.022	ug/L	0.011	47	6858	7630	3	Standard
	V-1	51	0.005	ug/L	0.001	11	607	748	2	Standard
	Cr	52	0.099	ug/L	0.032	32	20299	22981	2	Standard
	Cr	53	0.037	ug/L	0.007	17	294	396	3	Standard
	Mn	55	1.358	ug/L	0.017	1	569	43857	1	Standard
>	Ge	72		ug/L			49648	46842	1	KED
	Co	59	0.000	ug/L	0.000	168	6	8	35	KED
	Ni	60	-0.027	ug/L	0.002	8	69	20	18	KED
	Ni	62	-0.012	ug/L	0.007	54	7	3	50	KED
	Cu	63	0.007	ug/L	0.005	80	80	107	22	KED
	Cu	65	0.005	ug/L	0.002	44	43	52	8	KED
	Zn	66	-0.004	ug/L	0.016	371	140	130	6	KED
	Zn	67	0.037	ug/L	0.086	234	20	23	37	KED
	As	75	-0.001	ug/L	0.004	284	5	5	28	KED
	Se	78	-0.106	ug/L	0.096	90	25	20	14	KED
	Y	89		ug/L			347335	353456	0	Standard
	Kr	83		ug/L			53	47	18	Standard
>	In-1	115		ug/L			11040	10721	6	KED
	Mo	98	0.002	ug/L	0.001	53	7	10	20	KED
	Cd	111	-0.003	ug/L	0.008	278	7	6	36	KED
	Cd	114	0.000	ug/L	0.009	11566	9	9	74	KED
>	In	115		ug/L			434426	453533	2	Standard
	Ag	107	0.001	ug/L	0.001	70	42	70	24	Standard
	Sb	121	-0.000	ug/L	0.001	187	205	208	7	Standard
	Sb	123	0.002	ug/L	0.001	33	131	158	4	Standard
	Ba	135	0.005	ug/L	0.001	22	60	89	7	Standard
	Ba	137	0.005	ug/L	0.002	39	114	161	11	Standard
>	Tb	159		ug/L			798416	816476	1	Standard
	Tl	205	-0.002	ug/L	0.000	10	218	139	6	Standard
	Pb	208	-0.001	ug/L	0.000	18	288	227	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0660-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 20:42:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			449997	437802	5	Standard
	Be	9	25.653	ug/L	0.395	1	11	92064	6	Standard
	C	13		ug/L			29409	44677	4	Standard
	Cl	37		ug/L			1805078	1745715	1	Standard
>	Sc	45		ug/L			595718	589910	5	Standard
	V	51	25.554	ug/L	0.485	1	6858	663624	3	Standard
	V-1	51	25.638	ug/L	0.381	1	607	662391	3	Standard
	Cr	52	26.196	ug/L	0.271	1	20299	574632	5	Standard
	Cr	53	26.471	ug/L	0.516	1	294	64539	6	Standard
	Mn	55	26.019	ug/L	0.154	0	569	801231	5	Standard
>	Ge	72		ug/L			49648	50745	1	KED
	Co	59	26.539	ug/L	0.079	0	6	168013	1	KED
	Ni	60	27.073	ug/L	0.183	0	69	48923	1	KED
	Ni	62	26.978	ug/L	0.397	1	7	7984	2	KED
	Cu	63	26.607	ug/L	0.086	0	80	135711	0	KED
	Cu	65	27.114	ug/L	0.290	1	43	67842	1	KED
	Zn	66	84.525	ug/L	0.791	0	140	56636	1	KED
	Zn	67	81.632	ug/L	1.725	2	20	8873	2	KED
	As	75	26.040	ug/L	0.111	0	5	9299	0	KED
	Se	78	80.756	ug/L	0.814	1	25	2703	1	KED
	Y	89		ug/L			347335	345348	4	Standard
	Kr	83		ug/L			53	50	17	Standard
>	In-1	115		ug/L			11040	11407	3	KED
	Mo	98	0.088	ug/L	0.005	5	7	156	6	KED
	Cd	111	26.447	ug/L	1.161	4	7	9272	1	KED
	Cd	114	26.397	ug/L	0.716	2	9	23720	0	KED
>	In	115		ug/L			434426	430807	4	Standard
	Ag	107	26.232	ug/L	0.329	1	42	461586	5	Standard
	Sb	121	0.069	ug/L	0.003	4	205	1203	3	Standard
	Sb	123	0.074	ug/L	0.001	0	131	951	5	Standard
	Ba	135	26.496	ug/L	0.561	2	60	121593	4	Standard
	Ba	137	27.410	ug/L	0.597	2	114	219996	2	Standard
>	Tb	159		ug/L			798416	797988	4	Standard
	Tl	205	25.657	ug/L	0.263	1	218	871594	5	Standard
	Pb	208	25.881	ug/L	0.347	1	288	1168369	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0592-BS2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 20:49:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	Li	6		ug/L			449997	472437	2	Standard
[	Be	9	24.423	ug/L	0.356	1	11	94582	3	Standard
	C	13		ug/L			29409	40173	1	Standard
	Cl	37		ug/L			1805078	1832659	1	Standard
[>	Sc	45		ug/L			595718	607722	3	Standard
[	V	51	25.750	ug/L	0.259	1	6858	689404	4	Standard
[	V-1	51	25.899	ug/L	0.338	1	607	689896	4	Standard
[	Cr	52	26.532	ug/L	0.098	0	20299	599178	3	Standard
[	Cr	53	27.026	ug/L	0.776	2	294	67864	5	Standard
[	Mn	55	28.116	ug/L	0.492	1	569	892331	5	Standard
[>	Ge	72		ug/L			49648	51991	1	KED
[	Co	59	26.517	ug/L	0.334	1	6	171985	1	KED
[	Ni	60	27.391	ug/L	0.479	1	69	50707	1	KED
[	Ni	62	26.667	ug/L	0.263	0	7	8086	2	KED
[	Cu	63	27.748	ug/L	0.128	0	80	144997	0	KED
[	Cu	65	28.304	ug/L	0.153	0	43	72550	0	KED
[	Zn	66	85.445	ug/L	0.518	0	140	58652	0	KED
[	Zn	67	83.190	ug/L	2.641	3	20	9263	3	KED
[	As	75	25.886	ug/L	0.102	0	5	9471	1	KED
[	Se	78	83.976	ug/L	1.031	1	25	2879	0	KED
	Y	89		ug/L			347335	361560	3	Standard
	Kr	83		ug/L			53	62	22	Standard
[>	In-1	115		ug/L			11040	11901	1	KED
[	Mo	98	25.370	ug/L	0.340	1	7	44746	1	KED
[	Cd	111	26.202	ug/L	0.265	1	7	9594	0	KED
[	Cd	114	26.199	ug/L	0.218	0	9	24578	1	KED
[>	In	115		ug/L			434426	454224	3	Standard
[	Ag	107	27.270	ug/L	0.381	1	42	505738	3	Standard
[	Sb	121	25.297	ug/L	0.258	1	205	385513	3	Standard
[	Sb	123	25.625	ug/L	0.537	2	131	298292	3	Standard
[	Ba	135	26.637	ug/L	0.261	0	60	128871	2	Standard
[	Ba	137	27.422	ug/L	0.212	0	114	232239	4	Standard
[>	Tb	159		ug/L			798416	825775	1	Standard
[	Tl	205	26.260	ug/L	1.163	4	218	922423	2	Standard
[	Pb	208	26.259	ug/L	0.452	1	288	1227410	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0538-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, April 25, 2023 20:54:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			449997	558823	2	Standard
	Be	**9**	**-0.001**	ug/L	0.001	84	11	8	58	Standard
	C	**13**		ug/L			29409	167237	3	Standard
	Cl	**37**		ug/L			1805078	1661485	1	Standard
>	**Sc**	**45**		ug/L			595718	630622	5	Standard
	V	**51**	**0.126**	ug/L	0.005	4	6858	10730	6	Standard
	V-1	**51**	**0.042**	ug/L	0.003	6	607	1804	5	Standard
	Cr	**52**	**1.495**	ug/L	0.052	3	20299	55260	3	Standard
	Cr	**53**	**1.190**	ug/L	0.072	6	294	3390	0	Standard
	Mn	**55**	**11.983**	ug/L	0.249	2	569	394943	6	Standard
>	**Ge**	**72**		ug/L			49648	49216	2	KED
	Co	**59**	**0.231**	ug/L	0.005	2	6	1425	1	KED
	Ni	**60**	**2.005**	ug/L	0.027	1	69	3577	4	KED
	Ni	**62**	**1.890**	ug/L	0.070	3	7	549	1	KED
	Cu	**63**	**0.152**	ug/L	0.012	7	80	831	6	KED
	Cu	**65**	**0.158**	ug/L	0.005	3	43	426	4	KED
	Zn	**66**	**1.997**	ug/L	0.008	0	140	1434	3	KED
	Zn	**67**	**2.243**	ug/L	0.224	9	20	257	12	KED
	As	**75**	**0.067**	ug/L	0.002	3	5	29	5	KED
	Se	**78**	**-0.148**	ug/L	0.057	38	25	20	8	KED
	Y	**89**		ug/L			347335	359435	3	Standard
	Kr	**83**		ug/L			53	50	9	Standard
>	**In-1**	**115**		ug/L			11040	10639	4	KED
	Mo	**98**	**1.182**	ug/L	0.039	3	7	1868	3	KED
	Cd	**111**	**0.017**	ug/L	0.020	118	7	12	46	KED
	Cd	**114**	**0.014**	ug/L	0.011	81	9	21	48	KED
>	**In**	**115**		ug/L			434426	469611	1	Standard
	Ag	**107**	**0.003**	ug/L	0.000	15	42	93	8	Standard
	Sb	**121**	**0.041**	ug/L	0.002	6	205	861	6	Standard
	Sb	**123**	**0.044**	ug/L	0.000	0	131	669	2	Standard
	Ba	**135**	**2.459**	ug/L	0.053	2	60	12363	3	Standard
	Ba	**137**	**2.506**	ug/L	0.101	4	114	22058	5	Standard
>	**Tb**	**159**		ug/L			798416	886357	3	Standard
	Tl	**205**	**-0.003**	ug/L	0.001	26	218	133	24	Standard
	Pb	**208**	**0.039**	ug/L	0.001	1	288	2289	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0538-01
Sample Dil Factor: 2
Comments:
DEL
Sample Date/Time: Tuesday, April 25, 2023 21:02:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
Li	6		ug/L			449997	610172	8	Standard
Be	9	-0.001	ug/L	0.001	90	11	12	32	Standard
C	13		ug/L			29409	321384	7	Standard
Cl	37		ug/L			1805078	1496459	3	Standard
Sc	45		ug/L			595718	575520	7	Standard
V	51	0.278	ug/L	0.029	10	6858	13601	9	Standard
V-1	51	0.104	ug/L	0.006	6	607	3213	7	Standard
Cr	52	3.525	ug/L	0.078	2	20299	92412	8	Standard
Cr	53	2.888	ug/L	0.011	0	294	7120	7	Standard
Mn	55	29.172	ug/L	0.688	2	569	877415	9	Standard
Ge	72		ug/L			49648	46344	4	KED
Co	59	0.595	ug/L	0.009	1	6	3445	4	KED
Ni	60	4.748	ug/L	0.148	3	69	7884	2	KED
Ni	62	4.855	ug/L	0.072	1	7	1317	2	KED
Cu	63	0.306	ug/L	0.006	1	80	1499	5	KED
Cu	65	0.314	ug/L	0.010	3	43	758	7	KED
Zn	66	4.881	ug/L	0.216	4	140	3107	1	KED
Zn	67	4.547	ug/L	0.026	0	20	469	3	KED
As	75	0.179	ug/L	0.028	15	5	63	13	KED
Se	78	-0.074	ug/L	0.106	143	25	21	12	KED
Y	89		ug/L			347335	318118	8	Standard
Kr	83		ug/L			53	55	30	Standard
In-1	115		ug/L			11040	9844	5	KED
Mo	98	2.943	ug/L	0.188	6	7	4301	9	KED
Cd	111	0.047	ug/L	0.015	31	7	20	22	KED
Cd	114	0.034	ug/L	0.013	39	9	35	33	KED
In	115		ug/L			434426	421823	7	Standard
Ag	107	0.001	ug/L	0.000	26	42	66	7	Standard
Sb	121	0.114	ug/L	0.006	5	205	1816	10	Standard
Sb	123	0.117	ug/L	0.001	1	131	1386	6	Standard
Ba	135	6.580	ug/L	0.147	2	60	29596	6	Standard
Ba	137	6.790	ug/L	0.177	2	114	53440	6	Standard
Tb	159		ug/L			798416	885449	7	Standard
Tl	205	-0.004	ug/L	0.000	8	218	98	5	Standard
Pb	208	0.044	ug/L	0.002	4	288	2508	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 21:08:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			449997	453897	5	Standard
⌊	**Be**	**9**	**-0.002**	ug/L	0.001	40	11	5	43	Standard
	C	**13**		ug/L			29409	34855	3	Standard
	Cl	**37**		ug/L			1805078	1685504	2	Standard
⌈>	**Sc**	**45**		ug/L			595718	527459	6	Standard
⌈	**V**	**51**	**0.029**	ug/L	0.014	47	6858	6727	2	Standard
⌊	**V-1**	**51**	**0.000**	ug/L	0.003	1599	607	538	4	Standard
⌈	**Cr**	**52**	**0.102**	ug/L	0.047	45	20299	19855	2	Standard
⌊	**Cr**	**53**	**0.002**	ug/L	0.009	416	294	264	0	Standard
⌊	**Mn**	**55**	**0.004**	ug/L	0.000	11	569	605	8	Standard
⌈>	**Ge**	**72**		ug/L			49648	48136	2	KED
⌈	**Co**	**59**	**-0.000**	ug/L	0.000	119	6	4	65	KED
⌊	**Ni**	**60**	**-0.029**	ug/L	0.005	15	69	17	48	KED
⌈	**Ni**	**62**	**-0.013**	ug/L	0.012	96	7	3	86	KED
⌈	**Cu**	**63**	**0.028**	ug/L	0.003	12	80	212	9	KED
⌊	**Cu**	**65**	**0.033**	ug/L	0.004	11	43	120	5	KED
⌈	**Zn**	**66**	**0.094**	ug/L	0.002	2	140	196	2	KED
⌊	**Zn**	**67**	**0.087**	ug/L	0.049	55	20	29	15	KED
⌈	**As**	**75**	**-0.000**	ug/L	0.005	1138	5	5	34	KED
⌊	**Se**	**78**	**-0.153**	ug/L	0.095	61	25	19	17	KED
	Y	**89**		ug/L			347335	304565	2	Standard
	Kr	**83**		ug/L			53	44	20	Standard
⌈>	**In-1**	**115**		ug/L			11040	10232	2	KED
⌈	**Mo**	**98**	**-0.002**	ug/L	0.002	99	7	4	73	KED
⌈	**Cd**	**111**	**-0.007**	ug/L	0.007	91	7	4	49	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.002	49	9	5	34	KED
⌈>	**In**	**115**		ug/L			434426	405199	5	Standard
⌈	**Ag**	**107**	**-0.001**	ug/L	0.001	76	42	28	23	Standard
⌈	**Sb**	**121**	**-0.007**	ug/L	0.001	8	205	94	5	Standard
⌊	**Sb**	**123**	**-0.006**	ug/L	0.000	6	131	60	8	Standard
⌈	**Ba**	**135**	**0.003**	ug/L	0.003	100	60	69	17	Standard
⌊	**Ba**	**137**	**0.001**	ug/L	0.002	183	114	113	6	Standard
⌈>	**Tb**	**159**		ug/L			798416	791118	3	Standard
⌈	**Tl**	**205**	**-0.004**	ug/L	0.000	10	218	80	18	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	82	288	265	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0660-BLK1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, April 25, 2023 21:19:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			449997	504319	3	Standard
	Be	**9**	**-0.002**	ug/L	0.001	66	11	6	69	Standard
	C	**13**		ug/L			29409	39373	2	Standard
	Cl	**37**		ug/L			1805078	1721491	1	Standard
>	**Sc**	**45**		ug/L			595718	593765	1	Standard
	V	**51**	**0.018**	ug/L	0.004	21	6858	7314	2	Standard
	V-1	**51**	**-0.001**	ug/L	0.001	154	607	581	5	Standard
	Cr	**52**	**0.089**	ug/L	0.009	10	20299	22124	1	Standard
	Cr	**53**	**0.022**	ug/L	0.007	30	294	346	3	Standard
	Mn	**55**	**1.292**	ug/L	0.030	2	569	40580	2	Standard
>	**Ge**	**72**		ug/L			49648	47296	3	KED
	Co	**59**	**-0.000**	ug/L	0.000	76	6	5	21	KED
	Ni	**60**	**-0.030**	ug/L	0.002	6	69	15	25	KED
	Ni	**62**	**-0.005**	ug/L	0.012	224	7	5	57	KED
	Cu	**63**	**0.001**	ug/L	0.004	436	80	80	24	KED
	Cu	**65**	**0.003**	ug/L	0.002	89	43	46	10	KED
	Zn	**66**	**-0.038**	ug/L	0.017	43	140	110	8	KED
	Zn	**67**	**-0.059**	ug/L	0.089	151	20	13	64	KED
	As	**75**	**-0.001**	ug/L	0.006	519	5	5	39	KED
	Se	**78**	**-0.094**	ug/L	0.088	93	25	20	9	KED
	Y	**89**		ug/L			347335	340391	0	Standard
	Kr	**83**		ug/L			53	40	30	Standard
>	**In-1**	**115**		ug/L			11040	11662	2	KED
	Mo	**98**	**0.001**	ug/L	0.002	152	7	10	34	KED
	Cd	**111**	**-0.008**	ug/L	0.007	80	7	4	52	KED
	Cd	**114**	**0.004**	ug/L	0.003	78	9	14	21	KED
>	**In**	**115**		ug/L			434426	442264	3	Standard
	Ag	**107**	**-0.001**	ug/L	0.000	49	42	31	18	Standard
	Sb	**121**	**-0.007**	ug/L	0.001	12	205	110	13	Standard
	Sb	**123**	**-0.005**	ug/L	0.001	11	131	82	9	Standard
	Ba	**135**	**0.006**	ug/L	0.005	75	60	89	23	Standard
	Ba	**137**	**0.005**	ug/L	0.001	29	114	157	6	Standard
>	**Tb**	**159**		ug/L			798416	855212	0	Standard
	Tl	**205**	**-0.004**	ug/L	0.000	5	218	81	10	Standard
	Pb	**208**	**-0.002**	ug/L	0.001	30	288	198	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 21:24:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			449997	435004	3	Standard
⌊	**Be**	**9**	**49.667**	ug/L	1.563	3	11	177168	6	Standard
	C	**13**		ug/L			29409	29788	3	Standard
	Cl	**37**		ug/L			1805078	1637386	1	Standard
⌈>	**Sc**	**45**		ug/L			595718	550000	4	Standard
⌈	**V**	**51**	**49.075**	ug/L	1.203	2	6858	1182432	2	Standard
⌊	**V-1**	**51**	**49.131**	ug/L	1.091	2	607	1183026	2	Standard
⌈	**Cr**	**52**	**49.359**	ug/L	1.930	3	20299	991831	2	Standard
⌊	**Cr**	**53**	**49.546**	ug/L	1.584	3	294	112266	3	Standard
⌊	**Mn**	**55**	**49.204**	ug/L	1.270	2	569	1412038	4	Standard
⌈>	**Ge**	**72**		ug/L			49648	48629	3	KED
⌈	**Co**	**59**	**50.469**	ug/L	0.515	1	6	306168	3	KED
⌊	**Ni**	**60**	**51.683**	ug/L	0.164	0	69	89429	2	KED
⌈	**Ni**	**62**	**51.609**	ug/L	0.721	1	7	14627	2	KED
⌈	**Cu**	**63**	**51.651**	ug/L	0.752	1	80	252326	2	KED
⌊	**Cu**	**65**	**52.630**	ug/L	0.485	0	43	126130	2	KED
⌈	**Zn**	**66**	**51.306**	ug/L	0.559	1	140	33003	4	KED
⌊	**Zn**	**67**	**51.337**	ug/L	1.558	3	20	5357	5	KED
⌈	**As**	**75**	**50.382**	ug/L	1.075	2	5	17232	2	KED
⌊	**Se**	**78**	**50.162**	ug/L	0.603	1	25	1618	3	KED
	Y	**89**		ug/L			347335	331228	1	Standard
	Kr	**83**		ug/L			53	59	3	Standard
⌈>	**In-1**	**115**		ug/L			11040	10343	1	KED
⌈	**Mo**	**98**	**52.892**	ug/L	2.207	4	7	81062	4	KED
⌈	**Cd**	**111**	**52.597**	ug/L	1.351	2	7	16727	1	KED
⌊	**Cd**	**114**	**52.719**	ug/L	1.127	2	9	42966	1	KED
⌈>	**In**	**115**		ug/L			434426	417424	3	Standard
⌈	**Ag**	**107**	**49.472**	ug/L	1.338	2	42	842630	1	Standard
⌈	**Sb**	**121**	**50.183**	ug/L	0.745	1	205	702503	2	Standard
⌊	**Sb**	**123**	**50.473**	ug/L	1.103	2	131	539607	1	Standard
⌈	**Ba**	**135**	**53.504**	ug/L	0.770	1	60	237888	4	Standard
⌊	**Ba**	**137**	**53.213**	ug/L	1.100	2	114	413807	2	Standard
⌈>	**Tb**	**159**		ug/L			798416	823145	1	Standard
⌈	**Tl**	**205**	**49.721**	ug/L	0.590	1	218	1741987	2	Standard
⌊	**Pb**	**208**	**49.924**	ug/L	0.944	1	288	2325783	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 21:32:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			449997	480026	6	Standard
	Be	**9**	**-0.002**	ug/L	0.000	19	11	5	21	Standard
	C	**13**		ug/L			29409	29109	3	Standard
	Cl	**37**		ug/L			1805078	1734408	2	Standard
>	**Sc**	**45**		ug/L			595718	594388	1	Standard
	V	**51**	**0.002**	ug/L	0.002	136	6858	6890	1	Standard
	V-1	**51**	**-0.006**	ug/L	0.000	2	607	449	1	Standard
	Cr	**52**	**0.012**	ug/L	0.009	78	20299	20500	1	Standard
	Cr	**53**	**-0.015**	ug/L	0.001	8	294	256	0	Standard
	Mn	**55**	**0.001**	ug/L	0.001	68	569	609	5	Standard
>	**Ge**	**72**		ug/L			49648	49095	1	KED
	Co	**59**	**-0.001**	ug/L	0.000	37	6	1	100	KED
	Ni	**60**	**0.001**	ug/L	0.007	1414	69	69	16	KED
	Ni	**62**	**0.020**	ug/L	0.024	117	7	13	51	KED
	Cu	**63**	**0.001**	ug/L	0.003	193	80	86	16	KED
	Cu	**65**	**-0.000**	ug/L	0.003	1011	43	41	16	KED
	Zn	**66**	**-0.011**	ug/L	0.010	93	140	132	4	KED
	Zn	**67**	**0.040**	ug/L	0.095	240	20	24	38	KED
	As	**75**	**-0.006**	ug/L	0.004	64	5	3	39	KED
	Se	**78**	**-0.067**	ug/L	0.169	251	25	22	22	KED
	Y	**89**		ug/L			347335	352935	1	Standard
	Kr	**83**		ug/L			53	43	11	Standard
>	**In-1**	**115**		ug/L			11040	11030	1	KED
	Mo	**98**	**0.005**	ug/L	0.000	8	7	16	5	KED
	Cd	**111**	**-0.008**	ug/L	0.011	132	7	4	81	KED
	Cd	**114**	**-0.010**	ug/L	0.001	11	9	1	95	KED
>	**In**	**115**		ug/L			434426	458473	2	Standard
	Ag	**107**	**0.001**	ug/L	0.001	138	42	63	40	Standard
	Sb	**121**	**0.039**	ug/L	0.002	5	205	819	3	Standard
	Sb	**123**	**0.046**	ug/L	0.001	2	131	681	0	Standard
	Ba	**135**	**0.001**	ug/L	0.001	207	60	67	13	Standard
	Ba	**137**	**0.003**	ug/L	0.000	13	114	143	2	Standard
>	**Tb**	**159**		ug/L			798416	844543	1	Standard
	Tl	**205**	**-0.002**	ug/L	0.001	37	218	174	13	Standard
	Pb	**208**	**-0.001**	ug/L	0.000	10	288	236	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0181-BLK2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 21:46:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			449997	454920	5	Standard
	Be	9	-0.001	ug/L	0.001	52	11	6	45	Standard
	C	13		ug/L			29409	46526	4	Standard
	Cl	37		ug/L			1805078	1763471	1	Standard
>	Sc	45		ug/L			595718	600349	2	Standard
	V	51	0.021	ug/L	0.007	34	6858	7452	0	Standard
	V-1	51	-0.002	ug/L	0.000	16	607	557	3	Standard
	Cr	52	0.074	ug/L	0.023	31	20299	22050	1	Standard
	Cr	53	-0.004	ug/L	0.009	208	294	286	9	Standard
	Mn	55	0.061	ug/L	0.001	1	569	2476	2	Standard
>	Ge	72		ug/L			49648	50998	3	KED
	Co	59	0.000	ug/L	0.001	552	6	8	66	KED
	Ni	60	0.012	ug/L	0.005	44	69	93	7	KED
	Ni	62	0.025	ug/L	0.018	73	7	15	37	KED
	Cu	63	0.016	ug/L	0.004	25	80	165	14	KED
	Cu	65	0.020	ug/L	0.001	7	43	94	1	KED
	Zn	66	0.315	ug/L	0.037	11	140	356	7	KED
	Zn	67	0.264	ug/L	0.091	34	20	50	19	KED
	As	75	-0.007	ug/L	0.005	83	5	3	52	KED
	Se	78	-0.159	ug/L	0.022	13	25	20	6	KED
	Y	89		ug/L			347335	348425	4	Standard
	Kr	83		ug/L			53	46	27	Standard
>	In-1	115		ug/L			11040	11286	2	KED
	Mo	98	0.008	ug/L	0.003	32	7	21	17	KED
	Cd	111	-0.011	ug/L	0.003	24	7	3	25	KED
	Cd	114	-0.005	ug/L	0.002	42	9	5	36	KED
>	In	115		ug/L			434426	460925	3	Standard
	Ag	107	-0.000	ug/L	0.000	217	42	43	11	Standard
	Sb	121	0.009	ug/L	0.001	17	205	348	4	Standard
	Sb	123	0.012	ug/L	0.002	15	131	275	9	Standard
	Ba	135	0.054	ug/L	0.008	14	60	328	11	Standard
	Ba	137	0.057	ug/L	0.000	0	114	610	3	Standard
>	Tb	159		ug/L			798416	845518	4	Standard
	Tl	205	-0.003	ug/L	0.000	6	218	110	6	Standard
	Pb	208	0.000	ug/L	0.000	8060	288	305	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0181-BS2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 21:51:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	Li	6		ug/L			449997	462661	2	Standard
[	Be	9	26.724	ug/L	0.691	2	11	101340	3	Standard
	C	13		ug/L			29409	49495	4	Standard
	Cl	37		ug/L			1805078	1703842	2	Standard
[>	Sc	45		ug/L			595718	595470	3	Standard
[	V	51	26.050	ug/L	0.438	1	6858	682939	1	Standard
[	V-1	51	26.052	ug/L	0.298	1	607	679697	2	Standard
[	Cr	52	26.720	ug/L	0.902	3	20299	590760	1	Standard
[	Cr	53	26.718	ug/L	0.734	2	294	65719	4	Standard
[	Mn	55	26.130	ug/L	0.391	1	569	812282	3	Standard
[>	Ge	72		ug/L			49648	47355	3	KED
[	Co	59	26.216	ug/L	0.678	2	6	154926	5	KED
[	Ni	60	26.954	ug/L	0.627	2	69	45468	5	KED
[	Ni	62	26.999	ug/L	0.639	2	7	7460	6	KED
[	Cu	63	26.155	ug/L	0.413	1	80	124511	4	KED
[	Cu	65	27.053	ug/L	1.408	5	43	63195	7	KED
[	Zn	66	86.186	ug/L	1.612	1	140	53863	2	KED
[	Zn	67	85.031	ug/L	2.658	3	20	8625	5	KED
[	As	75	26.617	ug/L	0.255	0	5	8869	3	KED
[	Se	78	84.667	ug/L	1.862	2	25	2645	5	KED
	Y	89		ug/L			347335	353056	3	Standard
	Kr	83		ug/L			53	55	27	Standard
[>	In-1	115		ug/L			11040	10683	2	KED
[	Mo	98	27.873	ug/L	0.524	1	7	44136	4	KED
[	Cd	111	28.064	ug/L	0.545	1	7	9221	1	KED
[	Cd	114	27.735	ug/L	0.786	2	9	23354	3	KED
[>	In	115		ug/L			434426	434993	2	Standard
[	Ag	107	26.711	ug/L	0.370	1	42	474324	1	Standard
[	Sb	121	27.023	ug/L	0.111	0	205	394425	3	Standard
[	Sb	123	27.339	ug/L	0.433	1	131	304777	3	Standard
[	Ba	135	27.531	ug/L	0.615	2	60	127627	5	Standard
[	Ba	137	28.771	ug/L	0.852	2	114	233391	5	Standard
[>	Tb	159		ug/L			798416	849338	0	Standard
[	Tl	205	25.830	ug/L	0.852	3	218	933829	3	Standard
[	Pb	208	25.936	ug/L	0.600	2	288	1246847	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0559-BLK2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 21:56:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			449997	455186	5	Standard
	Be	**9**	**-0.001**	ug/L	0.001	76	11	8	35	Standard
	C	**13**		ug/L			29409	43792	4	Standard
	Cl	**37**		ug/L			1805078	1746115	2	Standard
>	**Sc**	**45**		ug/L			595718	588431	4	Standard
	V	**51**	**0.020**	ug/L	0.012	59	6858	7280	3	Standard
	V-1	**51**	**-0.005**	ug/L	0.000	7	607	463	6	Standard
	Cr	**52**	**0.087**	ug/L	0.040	46	20299	21876	3	Standard
	Cr	**53**	**0.000**	ug/L	0.004	1131	294	292	7	Standard
	Mn	**55**	**0.119**	ug/L	0.004	3	569	4200	3	Standard
>	**Ge**	**72**		ug/L			49648	49888	3	KED
	Co	**59**	**-0.000**	ug/L	0.000	1530	6	6	15	KED
	Ni	**60**	**-0.022**	ug/L	0.004	16	69	31	21	KED
	Ni	**62**	**0.002**	ug/L	0.014	778	7	8	53	KED
	Cu	**63**	**0.057**	ug/L	0.005	8	80	366	10	KED
	Cu	**65**	**0.057**	ug/L	0.006	10	43	182	8	KED
	Zn	**66**	**0.033**	ug/L	0.024	70	140	163	5	KED
	Zn	**67**	**0.004**	ug/L	0.069	1607	20	21	36	KED
	As	**75**	**-0.008**	ug/L	0.002	29	5	3	24	KED
	Se	**78**	**-0.159**	ug/L	0.064	39	25	19	11	KED
	Y	**89**		ug/L			347335	351931	2	Standard
	Kr	**83**		ug/L			53	52	23	Standard
>	**In-1**	**115**		ug/L			11040	10314	2	KED
	Mo	**98**	**0.013**	ug/L	0.005	40	7	26	29	KED
	Cd	**111**	**-0.002**	ug/L	0.001	83	7	6	8	KED
	Cd	**114**	**0.001**	ug/L	0.003	304	9	10	27	KED
>	**In**	**115**		ug/L			434426	450554	4	Standard
	Ag	**107**	**0.001**	ug/L	0.001	194	42	57	41	Standard
	Sb	**121**	**-0.001**	ug/L	0.002	199	205	195	20	Standard
	Sb	**123**	**-0.001**	ug/L	0.001	150	131	124	13	Standard
	Ba	**135**	**0.009**	ug/L	0.003	38	60	104	17	Standard
	Ba	**137**	**0.009**	ug/L	0.000	2	114	198	5	Standard
>	**Tb**	**159**		ug/L			798416	828860	4	Standard
	Tl	**205**	**-0.004**	ug/L	0.000	10	218	102	11	Standard
	Pb	**208**	**0.000**	ug/L	0.000	214	288	307	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0559-BS2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 22:02:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			449997	481995	1	Standard
	Be	**9**	**26.923**	ug/L	0.597	2	11	106330	0	Standard
	C	**13**		ug/L			29409	46069	4	Standard
	Cl	**37**		ug/L			1805078	1703547	1	Standard
>	**Sc**	**45**		ug/L			595718	628746	0	Standard
	V	**51**	**26.337**	ug/L	0.056	0	6858	729201	0	Standard
	V-1	**51**	**26.340**	ug/L	0.075	0	607	725706	0	Standard
	Cr	**52**	**26.875**	ug/L	0.376	1	20299	627673	2	Standard
	Cr	**53**	**26.879**	ug/L	0.144	0	294	69809	1	Standard
	Mn	**55**	**27.004**	ug/L	0.862	3	569	886374	3	Standard
>	**Ge**	**72**		ug/L			49648	48183	1	KED
	Co	**59**	**27.186**	ug/L	0.145	0	6	163415	1	KED
	Ni	**60**	**27.771**	ug/L	0.212	0	69	47645	1	KED
	Ni	**62**	**27.521**	ug/L	0.521	1	7	7734	2	KED
	Cu	**63**	**27.609**	ug/L	0.564	2	80	133704	1	KED
	Cu	**65**	**28.603**	ug/L	0.606	2	43	67950	2	KED
	Zn	**66**	**89.336**	ug/L	3.094	3	140	56828	3	KED
	Zn	**67**	**84.916**	ug/L	1.088	1	20	8763	2	KED
	As	**75**	**26.958**	ug/L	0.454	1	5	9141	2	KED
	Se	**78**	**88.052**	ug/L	2.507	2	25	2797	3	KED
	Y	**89**		ug/L			347335	368337	0	Standard
	Kr	**83**		ug/L			53	58	17	Standard
>	**In-1**	**115**		ug/L			11040	10762	2	KED
	Mo	**98**	**28.150**	ug/L	0.661	2	7	44894	2	KED
	Cd	**111**	**28.056**	ug/L	0.718	2	7	9290	3	KED
	Cd	**114**	**27.907**	ug/L	0.415	1	9	23673	2	KED
>	**In**	**115**		ug/L			434426	470232	1	Standard
	Ag	**107**	**26.284**	ug/L	0.739	2	42	504533	1	Standard
	Sb	**121**	**26.238**	ug/L	0.675	2	205	413881	1	Standard
	Sb	**123**	**26.604**	ug/L	0.399	1	131	320590	0	Standard
	Ba	**135**	**27.440**	ug/L	0.325	1	60	137473	2	Standard
	Ba	**137**	**28.222**	ug/L	0.496	1	114	247421	3	Standard
>	**Tb**	**159**		ug/L			798416	878700	1	Standard
	Tl	**205**	**26.571**	ug/L	0.260	0	218	993648	0	Standard
	Pb	**208**	**26.515**	ug/L	0.763	2	288	1318302	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0165-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 22:08:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			449997	469931	4	Standard
	Be	**9**	**0.000**	ug/L	0.001	16845	11	12	48	Standard
	C	**13**		ug/L			29409	85906	1	Standard
	Cl	**37**		ug/L			1805078	1722116	1	Standard
>	**Sc**	**45**		ug/L			595718	654955	2	Standard
	V	**51**	**0.815**	ug/L	0.013	1	6858	30814	2	Standard
	V-1	**51**	**0.938**	ug/L	0.012	1	607	27558	0	Standard
	Cr	**52**	**1.229**	ug/L	0.049	4	20299	51220	4	Standard
	Cr	**53**	**1.642**	ug/L	0.028	1	294	4746	1	Standard
	Mn	**55**	**1265.524**	ug/L	17.610	1	569	43243624	2	Standard
>	**Ge**	**72**		ug/L			49648	49584	1	KED
	Co	**59**	**1.525**	ug/L	0.023	1	6	9441	2	KED
	Ni	**60**	**2.685**	ug/L	0.043	1	69	4802	0	KED
	Ni	**62**	**2.707**	ug/L	0.133	4	7	789	5	KED
	Cu	**63**	**2.459**	ug/L	0.076	3	80	12328	2	KED
	Cu	**65**	**2.575**	ug/L	0.046	1	43	6335	2	KED
	Zn	**66**	**70.399**	ug/L	0.029	0	140	46113	1	KED
	Zn	**67**	**68.513**	ug/L	0.726	1	20	7279	1	KED
	As	**75**	**4.592**	ug/L	0.165	3	5	1606	2	KED
	Se	**78**	**0.075**	ug/L	0.091	121	25	27	9	KED
	Y	**89**		ug/L			347335	354647	1	Standard
	Kr	**83**		ug/L			53	76	11	Standard
>	**In-1**	**115**		ug/L			11040	11156	3	KED
	Mo	**98**	**4.068**	ug/L	0.291	7	7	6723	4	KED
	Cd	**111**	**0.106**	ug/L	0.021	20	7	43	17	KED
	Cd	**114**	**0.106**	ug/L	0.011	10	9	103	7	KED
>	**In**	**115**		ug/L			434426	430182	1	Standard
	Ag	**107**	**0.003**	ug/L	0.000	18	42	86	7	Standard
	Sb	**121**	**1.276**	ug/L	0.018	1	205	18605	1	Standard
	Sb	**123**	**1.274**	ug/L	0.028	2	131	14168	2	Standard
	Ba	**135**	**44.893**	ug/L	0.711	1	60	205727	3	Standard
	Ba	**137**	**45.448**	ug/L	0.983	2	114	364329	1	Standard
>	**Tb**	**159**		ug/L			798416	832212	1	Standard
	Tl	**205**	**-0.003**	ug/L	0.000	11	218	137	9	Standard
	Pb	**208**	**0.264**	ug/L	0.005	1	288	12719	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0249-DUP4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 22:16:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			449997	455874	4	Standard
	Be	**9**	**0.000**	ug/L	0.002	1576	11	12	55	Standard
	C	**13**		ug/L			29409	87141	3	Standard
	Cl	**37**		ug/L			1805078	1715340	1	Standard
>	**Sc**	**45**		ug/L			595718	661028	4	Standard
	V	**51**	**0.809**	ug/L	0.048	5	6858	30909	5	Standard
	V-1	**51**	**0.923**	ug/L	0.036	3	607	27380	4	Standard
	Cr	**52**	**1.260**	ug/L	0.075	5	20299	52415	5	Standard
	Cr	**53**	**1.645**	ug/L	0.041	2	294	4794	2	Standard
	Mn	**55**	**1255.695**	ug/L	34.695	2	569	43333903	6	Standard
>	**Ge**	**72**		ug/L			49648	48212	2	KED
	Co	**59**	**1.463**	ug/L	0.030	2	6	8810	4	KED
	Ni	**60**	**2.624**	ug/L	0.036	1	69	4565	2	KED
	Ni	**62**	**2.577**	ug/L	0.295	11	7	732	13	KED
	Cu	**63**	**2.551**	ug/L	0.005	0	80	12433	2	KED
	Cu	**65**	**2.606**	ug/L	0.058	2	43	6235	4	KED
	Zn	**66**	**69.848**	ug/L	0.367	0	140	44489	2	KED
	Zn	**67**	**67.963**	ug/L	0.848	1	20	7022	3	KED
	As	**75**	**4.484**	ug/L	0.061	1	5	1526	3	KED
	Se	**78**	**-0.082**	ug/L	0.147	179	25	21	18	KED
	Y	**89**		ug/L			347335	349982	5	Standard
	Kr	**83**		ug/L			53	71	22	Standard
>	**In-1**	**115**		ug/L			11040	10954	0	KED
	Mo	**98**	**4.130**	ug/L	0.075	1	7	6711	1	KED
	Cd	**111**	**0.113**	ug/L	0.020	17	7	45	15	KED
	Cd	**114**	**0.100**	ug/L	0.013	12	9	96	11	KED
>	**In**	**115**		ug/L			434426	431239	6	Standard
	Ag	**107**	**0.003**	ug/L	0.001	23	42	90	10	Standard
	Sb	**121**	**1.255**	ug/L	0.058	4	205	18315	2	Standard
	Sb	**123**	**1.251**	ug/L	0.056	4	131	13928	3	Standard
	Ba	**135**	**44.205**	ug/L	1.090	2	60	202908	5	Standard
	Ba	**137**	**44.937**	ug/L	1.838	4	114	360692	4	Standard
>	**Tb**	**159**		ug/L			798416	826685	2	Standard
	Tl	**205**	**-0.002**	ug/L	0.000	12	218	142	5	Standard
	Pb	**208**	**0.271**	ug/L	0.005	1	288	12983	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0249-MS4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 22:21:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			449997	471883	2	Standard
	Be	**9**	**25.725**	ug/L	0.311	1	11	99499	3	Standard
	C	**13**		ug/L			29409	94808	2	Standard
	Cl	**37**		ug/L			1805078	1625208	2	Standard
>	**Sc**	**45**		ug/L			595718	680783	1	Standard
	V	**51**	**24.007**	ug/L	0.334	1	6858	720372	1	Standard
	V-1	**51**	**24.249**	ug/L	0.347	1	607	723416	1	Standard
	Cr	**52**	**24.847**	ug/L	0.331	1	20299	630026	1	Standard
	Cr	**53**	**25.658**	ug/L	0.186	0	294	72166	1	Standard
	Mn	**55**	**1271.074**	ug/L	30.674	2	569	45136852	1	Standard
>	**Ge**	**72**		ug/L			49648	48482	1	KED
	Co	**59**	**27.857**	ug/L	0.262	0	6	168491	1	KED
	Ni	**60**	**29.163**	ug/L	0.381	1	69	50344	2	KED
	Ni	**62**	**28.711**	ug/L	0.304	1	7	8117	2	KED
	Cu	**63**	**29.307**	ug/L	0.777	2	80	142803	2	KED
	Cu	**65**	**29.727**	ug/L	0.379	1	43	71064	2	KED
	Zn	**66**	**147.686**	ug/L	1.269	0	140	94431	0	KED
	Zn	**67**	**142.880**	ug/L	1.151	0	20	14821	0	KED
	As	**75**	**30.770**	ug/L	0.276	0	5	10497	0	KED
	Se	**78**	**79.929**	ug/L	2.436	3	25	2557	3	KED
	Y	**89**		ug/L			347335	363074	1	Standard
	Kr	**83**		ug/L			53	91	15	Standard
>	**In-1**	**115**		ug/L			11040	10131	3	KED
	Mo	**98**	**32.915**	ug/L	0.874	2	7	49390	2	KED
	Cd	**111**	**26.710**	ug/L	0.655	2	7	8320	1	KED
	Cd	**114**	**26.460**	ug/L	0.892	3	9	21116	2	KED
>	**In**	**115**		ug/L			434426	442762	1	Standard
	Ag	**107**	**25.058**	ug/L	0.468	1	42	452924	0	Standard
	Sb	**121**	**27.828**	ug/L	1.313	4	205	413248	3	Standard
	Sb	**123**	**27.778**	ug/L	1.074	3	131	315113	2	Standard
	Ba	**135**	**69.520**	ug/L	0.086	0	60	327808	1	Standard
	Ba	**137**	**72.316**	ug/L	1.938	2	114	596505	1	Standard
>	**Tb**	**159**		ug/L			798416	862138	2	Standard
	Tl	**205**	**25.389**	ug/L	0.308	1	218	931646	3	Standard
	Pb	**208**	**25.720**	ug/L	0.588	2	288	1254520	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0538-01RE1
Sample Dil Factor: 10
Comments:
Sample Date/Time: Tuesday, April 25, 2023 22:28:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			449997	497458	6	Standard
	Be	**9**	**-0.002**	ug/L	0.000	22	11	5	33	Standard
	C	**13**		ug/L			29409	87368	2	Standard
	Cl	**37**		ug/L			1805078	1688677	1	Standard
>	**Sc**	**45**		ug/L			595718	578565	7	Standard
	V	**51**	**0.079**	ug/L	0.015	18	6858	8646	6	Standard
	V-1	**51**	**0.025**	ug/L	0.002	7	607	1225	3	Standard
	Cr	**52**	**0.822**	ug/L	0.042	5	20299	36755	5	Standard
	Cr	**53**	**0.629**	ug/L	0.020	3	294	1780	5	Standard
	Mn	**55**	**6.159**	ug/L	0.254	4	569	186092	3	Standard
>	**Ge**	**72**		ug/L			49648	46967	5	KED
	Co	**59**	**0.119**	ug/L	0.013	10	6	700	5	KED
	Ni	**60**	**1.006**	ug/L	0.015	1	69	1744	4	KED
	Ni	**62**	**1.002**	ug/L	0.205	20	7	279	14	KED
	Cu	**63**	**0.086**	ug/L	0.009	10	80	481	10	KED
	Cu	**65**	**0.081**	ug/L	0.010	13	43	226	6	KED
	Zn	**66**	**1.117**	ug/L	0.065	5	140	822	1	KED
	Zn	**67**	**1.175**	ug/L	0.177	15	20	137	7	KED
	As	**75**	**0.027**	ug/L	0.012	43	5	14	31	KED
	Se	**78**	**-0.038**	ug/L	0.066	174	25	22	5	KED
	Y	**89**		ug/L			347335	339157	5	Standard
	Kr	**83**		ug/L			53	43	19	Standard
>	**In-1**	**115**		ug/L			11040	9843	1	KED
	Mo	**98**	**0.600**	ug/L	0.015	2	7	882	3	KED
	Cd	**111**	**0.018**	ug/L	0.003	18	7	12	9	KED
	Cd	**114**	**0.002**	ug/L	0.007	340	9	10	49	KED
>	**In**	**115**		ug/L			434426	429080	7	Standard
	Ag	**107**	**0.000**	ug/L	0.001	155	42	47	18	Standard
	Sb	**121**	**0.016**	ug/L	0.001	5	205	425	5	Standard
	Sb	**123**	**0.019**	ug/L	0.001	5	131	343	4	Standard
	Ba	**135**	**1.274**	ug/L	0.070	5	60	5864	2	Standard
	Ba	**137**	**1.308**	ug/L	0.061	4	114	10555	5	Standard
>	**Tb**	**159**		ug/L			798416	837898	3	Standard
	Tl	**205**	**-0.004**	ug/L	0.001	17	218	86	29	Standard
	Pb	**208**	**0.019**	ug/L	0.002	10	288	1198	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0397-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, April 25, 2023 22:33:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			449997	470626	7	Standard
	Be	9	-0.002	ug/L	0.001	40	11	3	124	Standard
	C	13		ug/L			29409	483928	4	Standard
	Cl	37		ug/L			1805078	1354496	2	Standard
>	Sc	45		ug/L			595718	536934	5	Standard
	V	51	0.373	ug/L	0.057	15	6858	14938	11	Standard
	V-1	51	0.154	ug/L	0.006	3	607	4162	5	Standard
	Cr	52	12.282	ug/L	0.079	0	20299	254836	4	Standard
	Cr	53	11.366	ug/L	0.244	2	294	25350	3	Standard
	Mn	55	17.158	ug/L	0.126	0	569	481246	5	Standard
>	Ge	72		ug/L			49648	41025	2	KED
	Co	59	0.492	ug/L	0.020	4	6	2526	6	KED
	Ni	60	10.216	ug/L	0.196	1	69	14963	4	KED
	Ni	62	10.226	ug/L	0.123	1	7	2451	3	KED
	Cu	63	2.300	ug/L	0.088	3	80	9553	6	KED
	Cu	65	2.356	ug/L	0.072	3	43	4801	5	KED
	Zn	66	2.714	ug/L	0.199	7	140	1584	9	KED
	Zn	67	3.318	ug/L	0.392	11	20	307	10	KED
	As	75	0.132	ug/L	0.006	4	5	42	6	KED
	Se	78	0.013	ug/L	0.127	945	25	21	17	KED
	Y	89		ug/L			347335	289049	3	Standard
	Kr	83		ug/L			53	76	2	Standard
>	In-1	115		ug/L			11040	8794	7	KED
	Mo	98	1.938	ug/L	0.098	5	7	2525	2	KED
	Cd	111	0.024	ug/L	0.015	64	7	12	27	KED
	Cd	114	0.010	ug/L	0.001	6	9	14	6	KED
>	In	115		ug/L			434426	395126	5	Standard
	Ag	107	-0.001	ug/L	0.000	12	42	21	5	Standard
	Sb	121	0.143	ug/L	0.004	2	205	2076	3	Standard
	Sb	123	0.148	ug/L	0.007	4	131	1619	5	Standard
	Ba	135	12.864	ug/L	0.130	1	60	54155	4	Standard
	Ba	137	13.345	ug/L	0.053	0	114	98339	4	Standard
>	Tb	159		ug/L			798416	858438	3	Standard
	Tl	205	-0.004	ug/L	0.000	9	218	80	19	Standard
	Pb	208	0.062	ug/L	0.002	2	288	3309	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 22:38:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			449997	524546	0	Standard
⌊	**Be**	**9**	**-0.002**	ug/L	0.001	44	11	4	89	Standard
	C	**13**		ug/L			29409	36279	3	Standard
	Cl	**37**		ug/L			1805078	1612411	1	Standard
⌈>	**Sc**	**45**		ug/L			595718	592129	1	Standard
⎢	**V**	**51**	**0.014**	ug/L	0.006	44	6858	7180	0	Standard
⎢	**V-1**	**51**	**-0.005**	ug/L	0.001	19	607	480	4	Standard
⎢	**Cr**	**52**	**0.059**	ug/L	0.012	21	20299	21420	1	Standard
⎢	**Cr**	**53**	**-0.006**	ug/L	0.010	158	294	278	10	Standard
⌊	**Mn**	**55**	**0.004**	ug/L	0.001	12	569	690	1	Standard
⌈>	**Ge**	**72**		ug/L			49648	46809	2	KED
⎢	**Co**	**59**	**-0.000**	ug/L	0.001	191	6	4	89	KED
⎢	**Ni**	**60**	**-0.027**	ug/L	0.001	2	69	20	5	KED
⎢	**Ni**	**62**	**-0.008**	ug/L	0.017	220	7	5	94	KED
⎢	**Cu**	**63**	**0.009**	ug/L	0.004	46	80	116	14	KED
⎢	**Cu**	**65**	**0.010**	ug/L	0.006	59	43	64	19	KED
⎢	**Zn**	**66**	**-0.044**	ug/L	0.011	24	140	105	3	KED
⎢	**Zn**	**67**	**-0.044**	ug/L	0.085	193	20	15	54	KED
⎢	**As**	**75**	**-0.002**	ug/L	0.003	177	5	4	22	KED
⌊	**Se**	**78**	**-0.184**	ug/L	0.118	64	25	17	17	KED
	Y	**89**		ug/L			347335	336635	2	Standard
	Kr	**83**		ug/L			53	48	13	Standard
⌈>	**In-1**	**115**		ug/L			11040	8494	5	KED
⎢	**Mo**	**98**	**-0.000**	ug/L	0.002	468	7	5	36	KED
⎢	**Cd**	**111**	**0.000**	ug/L	0.009	4842	7	5	44	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.005	326	9	6	44	KED
⌈>	**In**	**115**		ug/L			434426	457124	1	Standard
⎢	**Ag**	**107**	**-0.001**	ug/L	0.000	19	42	18	29	Standard
⎢	**Sb**	**121**	**-0.010**	ug/L	0.000	4	205	67	9	Standard
⎢	**Sb**	**123**	**-0.006**	ug/L	0.000	0	131	63	1	Standard
⎢	**Ba**	**135**	**-0.005**	ug/L	0.003	71	60	41	37	Standard
⌊	**Ba**	**137**	**-0.005**	ug/L	0.002	39	114	74	24	Standard
⌈>	**Tb**	**159**		ug/L			798416	905233	2	Standard
⎢	**Tl**	**205**	**-0.005**	ug/L	0.000	8	218	66	25	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	5	288	267	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 22:43:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			449997	464365	5	Standard
	Be	**9**	**50.109**	ug/L	0.621	1	11	190680	5	Standard
	C	**13**		ug/L			29409	29831	0	Standard
	Cl	**37**		ug/L			1805078	1539223	1	Standard
>	**Sc**	**45**		ug/L			595718	572697	4	Standard
	V	**51**	**47.310**	ug/L	1.061	2	6858	1187464	4	Standard
	V-1	**51**	**47.434**	ug/L	1.032	2	607	1189623	4	Standard
	Cr	**52**	**47.162**	ug/L	0.646	1	20299	988543	4	Standard
	Cr	**53**	**47.588**	ug/L	0.922	1	294	112395	5	Standard
	Mn	**55**	**48.263**	ug/L	0.735	1	569	1443034	5	Standard
>	**Ge**	**72**		ug/L			49648	47879	3	KED
	Co	**59**	**51.187**	ug/L	0.865	1	6	305624	2	KED
	Ni	**60**	**51.175**	ug/L	0.649	1	69	87197	4	KED
	Ni	**62**	**50.417**	ug/L	0.630	1	7	14068	2	KED
	Cu	**63**	**51.234**	ug/L	0.809	1	80	246405	2	KED
	Cu	**65**	**53.246**	ug/L	1.124	2	43	125605	2	KED
	Zn	**66**	**50.518**	ug/L	0.926	1	140	31985	3	KED
	Zn	**67**	**50.214**	ug/L	0.984	1	20	5155	2	KED
	As	**75**	**50.380**	ug/L	1.209	2	5	16964	2	KED
	Se	**78**	**49.359**	ug/L	1.825	3	25	1567	2	KED
	Y	**89**		ug/L			347335	326965	5	Standard
	Kr	**83**		ug/L			53	46	10	Standard
>	**In-1**	**115**		ug/L			11040	9756	2	KED
	Mo	**98**	**51.062**	ug/L	0.559	1	7	73826	3	KED
	Cd	**111**	**51.185**	ug/L	0.456	0	7	15355	1	KED
	Cd	**114**	**51.461**	ug/L	1.187	2	9	39552	1	KED
>	**In**	**115**		ug/L			434426	431409	6	Standard
	Ag	**107**	**48.394**	ug/L	0.644	1	42	851988	5	Standard
	Sb	**121**	**50.843**	ug/L	1.926	3	205	734986	4	Standard
	Sb	**123**	**51.001**	ug/L	1.672	3	131	563145	3	Standard
	Ba	**135**	**54.998**	ug/L	1.543	2	60	252476	4	Standard
	Ba	**137**	**55.453**	ug/L	2.225	4	114	445673	6	Standard
>	**Tb**	**159**		ug/L			798416	865448	3	Standard
	Tl	**205**	**49.914**	ug/L	0.541	1	218	1838658	3	Standard
	Pb	**208**	**50.203**	ug/L	0.569	1	288	2458952	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 22:51:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			449997	456647	3	Standard
	Be	**9**	**-0.001**	ug/L	0.001	51	11	7	25	Standard
	C	**13**		ug/L			29409	30332	0	Standard
	Cl	**37**		ug/L			1805078	1639499	1	Standard
>	**Sc**	**45**		ug/L			595718	559160	2	Standard
	V	**51**	**0.010**	ug/L	0.008	76	6858	6681	2	Standard
	V-1	**51**	**-0.004**	ug/L	0.001	29	607	476	5	Standard
	Cr	**52**	**0.032**	ug/L	0.028	87	20299	19694	1	Standard
	Cr	**53**	**-0.015**	ug/L	0.009	59	294	240	6	Standard
	Mn	**55**	**0.009**	ug/L	0.002	22	569	784	5	Standard
>	**Ge**	**72**		ug/L			49648	49122	0	KED
	Co	**59**	**-0.000**	ug/L	0.001	215	6	5	78	KED
	Ni	**60**	**0.267**	ug/L	0.016	5	69	534	5	KED
	Ni	**62**	**0.275**	ug/L	0.055	19	7	86	17	KED
	Cu	**63**	**0.006**	ug/L	0.003	56	80	107	14	KED
	Cu	**65**	**0.004**	ug/L	0.004	103	43	52	19	KED
	Zn	**66**	**-0.006**	ug/L	0.037	574	140	135	17	KED
	Zn	**67**	**-0.022**	ug/L	0.099	449	20	18	56	KED
	As	**75**	**-0.001**	ug/L	0.008	672	5	5	50	KED
	Se	**78**	**-0.091**	ug/L	0.022	23	25	21	3	KED
	Y	**89**		ug/L			347335	334340	3	Standard
	Kr	**83**		ug/L			53	40	37	Standard
>	**In-1**	**115**		ug/L			11040	10493	2	KED
	Mo	**98**	**0.007**	ug/L	0.003	36	7	18	20	KED
	Cd	**111**	**-0.011**	ug/L	0.003	30	7	3	31	KED
	Cd	**114**	**-0.006**	ug/L	0.006	95	9	4	113	KED
>	**In**	**115**		ug/L			434426	430490	3	Standard
	Ag	**107**	**0.000**	ug/L	0.000	50	42	50	9	Standard
	Sb	**121**	**0.040**	ug/L	0.001	3	205	780	5	Standard
	Sb	**123**	**0.041**	ug/L	0.003	6	131	585	5	Standard
	Ba	**135**	**-0.001**	ug/L	0.001	92	60	56	8	Standard
	Ba	**137**	**-0.002**	ug/L	0.001	42	114	100	8	Standard
>	**Tb**	**159**		ug/L			798416	831843	2	Standard
	Tl	**205**	**-0.001**	ug/L	0.000	7	218	191	4	Standard
	Pb	**208**	**0.000**	ug/L	0.000	21	288	321	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 22:56:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L				451288	2	Standard
	Be	9		ug/L				8	58	Standard
	C	13		ug/L				30171	0	Standard
	Cl	37		ug/L				1636983	1	Standard
>	Sc	45		ug/L				558757	3	Standard
	V	51		ug/L				6588	4	Standard
	V-1	51		ug/L				458	6	Standard
	Cr	52		ug/L				19428	3	Standard
	Cr	53		ug/L				234	5	Standard
	Mn	55		ug/L				747	2	Standard
>	Ge	72		ug/L				47927	2	KED
	Co	59		ug/L				7	108	KED
	Ni	60		ug/L				554	0	KED
	Ni	62		ug/L				85	11	KED
	Cu	63		ug/L				97	22	KED
	Cu	65		ug/L				53	2	KED
	Zn	66		ug/L				102	17	KED
	Zn	67		ug/L				22	44	KED
	As	75		ug/L				5	26	KED
	Se	78		ug/L				19	27	KED
	Y	89		ug/L				333043	1	Standard
	Kr	83		ug/L				44	21	Standard
>	In-1	115		ug/L				10197	8	KED
	Mo	98		ug/L				9	74	KED
	Cd	111		ug/L				3	25	KED
	Cd	114		ug/L				4	27	KED
>	In	115		ug/L				441442	2	Standard
	Ag	107		ug/L				35	24	Standard
	Sb	121		ug/L				277	8	Standard
	Sb	123		ug/L				218	5	Standard
	Ba	135		ug/L				56	10	Standard
	Ba	137		ug/L				90	1	Standard
>	Tb	159		ug/L				829126	1	Standard
	Tl	205		ug/L				103	9	Standard
	Pb	208		ug/L				332	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 23:01:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			451288	454961	6	Standard
	Be	**9**	**50.022**	ug/L	2.276	4	8	186205	3	Standard
	C	**13**		ug/L			30171	27766	1	Standard
	Cl	**37**		ug/L			1636983	1604729	1	Standard
>	**Sc**	**45**		ug/L			558757	576901	4	Standard
	V	**51**	**47.432**	ug/L	0.898	1	6588	1199549	4	Standard
	V-1	**51**	**47.856**	ug/L	0.876	1	458	1208697	3	Standard
	Cr	**52**	**48.563**	ug/L	0.530	1	19428	1024995	4	Standard
	Cr	**53**	**49.991**	ug/L	1.193	2	234	118749	2	Standard
	Mn	**55**	**49.436**	ug/L	0.572	1	747	1488502	4	Standard
>	**Ge**	**72**		ug/L			47927	47508	3	KED
	Co	**59**	**50.743**	ug/L	0.862	1	7	300638	2	KED
	Ni	**60**	**51.250**	ug/L	0.868	1	554	87112	3	KED
	Ni	**62**	**51.110**	ug/L	2.491	4	85	14231	6	KED
	Cu	**63**	**51.676**	ug/L	1.155	2	97	246592	1	KED
	Cu	**65**	**51.899**	ug/L	2.372	4	53	121453	3	KED
	Zn	**66**	**51.467**	ug/L	1.152	2	102	32293	2	KED
	Zn	**67**	**52.043**	ug/L	1.884	3	22	5307	5	KED
	As	**75**	**50.968**	ug/L	0.900	1	5	17033	3	KED
	Se	**78**	**50.509**	ug/L	2.090	4	19	1586	1	KED
	Y	**89**		ug/L			333043	347549	4	Standard
	Kr	**83**		ug/L			44	51	0	Standard
>	**In-1**	**115**		ug/L			10197	10993	1	KED
	Mo	**98**	**50.918**	ug/L	0.963	1	9	82931	0	KED
	Cd	**111**	**50.750**	ug/L	0.545	1	3	17153	0	KED
	Cd	**114**	**51.243**	ug/L	1.595	3	4	44378	2	KED
>	**In**	**115**		ug/L			441442	436044	5	Standard
	Ag	**107**	**49.554**	ug/L	0.900	1	35	881903	5	Standard
	Sb	**121**	**50.466**	ug/L	0.875	1	277	737740	4	Standard
	Sb	**123**	**50.817**	ug/L	1.922	3	218	567166	3	Standard
	Ba	**135**	**52.415**	ug/L	0.669	1	56	243294	4	Standard
	Ba	**137**	**55.553**	ug/L	1.405	2	90	450977	3	Standard
>	**Tb**	**159**		ug/L			829126	845494	2	Standard
	Tl	**205**	**50.078**	ug/L	1.059	2	103	1802397	4	Standard
	Pb	**208**	**49.904**	ug/L	1.084	2	332	2388640	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 23:09:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			451288	434043	3	Standard
⌊	**Be**	**9**	**-0.001**	ug/L	0.002	234	8	5	100	Standard
	C	**13**		ug/L			30171	29312	4	Standard
	Cl	**37**		ug/L			1636983	1681010	1	Standard
⌈>	**Sc**	**45**		ug/L			558757	552287	2	Standard
⌈	**V**	**51**	**0.003**	ug/L	0.001	34	6588	6577	3	Standard
⌊	**V-1**	**51**	**-0.002**	ug/L	0.000	25	458	415	2	Standard
⌈	**Cr**	**52**	**0.017**	ug/L	0.011	61	19428	19540	2	Standard
⌊	**Cr**	**53**	**0.003**	ug/L	0.014	559	234	237	11	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.000	52	747	761	4	Standard
⌈>	**Ge**	**72**		ug/L			47927	50167	1	KED
⌈	**Co**	**59**	**-0.001**	ug/L	0.000	20	7	2	43	KED
⌊	**Ni**	**60**	**0.007**	ug/L	0.008	112	554	592	1	KED
⌈	**Ni**	**62**	**-0.001**	ug/L	0.027	5081	85	88	8	KED
⌈	**Cu**	**63**	**0.000**	ug/L	0.004	1461	97	102	17	KED
⌊	**Cu**	**65**	**0.002**	ug/L	0.004	238	53	60	16	KED
⌈	**Zn**	**66**	**0.008**	ug/L	0.027	323	102	112	14	KED
⌊	**Zn**	**67**	**-0.034**	ug/L	0.033	98	22	20	19	KED
⌈	**As**	**75**	**-0.004**	ug/L	0.002	56	5	4	16	KED
⌊	**Se**	**78**	**0.008**	ug/L	0.059	745	19	21	8	KED
	Y	**89**		ug/L			333043	320136	2	Standard
	Kr	**83**		ug/L			44	48	4	Standard
⌈>	**In-1**	**115**		ug/L			10197	10695	1	KED
⌈	**Mo**	**98**	**0.008**	ug/L	0.005	66	9	21	36	KED
⌊	**Cd**	**111**	**0.006**	ug/L	0.012	190	3	6	63	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.005	132	4	7	52	KED
⌈>	**In**	**115**		ug/L			441442	426276	1	Standard
⌈	**Ag**	**107**	**0.002**	ug/L	0.001	44	35	60	17	Standard
⌈	**Sb**	**121**	**0.039**	ug/L	0.005	13	277	828	7	Standard
⌊	**Sb**	**123**	**0.043**	ug/L	0.004	8	218	686	6	Standard
⌈	**Ba**	**135**	**0.000**	ug/L	0.001	19629	56	54	7	Standard
⌊	**Ba**	**137**	**0.001**	ug/L	0.001	171	90	92	10	Standard
⌈>	**Tb**	**159**		ug/L			829126	782513	2	Standard
⌈	**Tl**	**205**	**0.002**	ug/L	0.000	3	103	180	3	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	118	332	348	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0347-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 23:14:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			451288	472377	2	Standard
	Be	9	-0.001	ug/L	0.001	169	8	6	62	Standard
	C	13		ug/L			30171	42128	3	Standard
	Cl	37		ug/L			1636983	1674132	1	Standard
>	Sc	45		ug/L			558757	597373	0	Standard
	V	51	0.014	ug/L	0.005	36	6588	7420	1	Standard
	V-1	51	0.000	ug/L	0.001	201	458	501	4	Standard
	Cr	52	0.097	ug/L	0.017	17	19428	22842	2	Standard
	Cr	53	0.048	ug/L	0.010	19	234	368	6	Standard
	Mn	55	0.015	ug/L	0.001	6	747	1276	2	Standard
>	Ge	72		ug/L			47927	47104	0	KED
	Co	59	-0.000	ug/L	0.000	122	7	5	57	KED
	Ni	60	-0.315	ug/L	0.002	0	554	16	17	KED
	Ni	62	-0.293	ug/L	0.008	2	85	3	69	KED
	Cu	63	0.029	ug/L	0.003	9	97	234	6	KED
	Cu	65	0.028	ug/L	0.002	5	53	117	2	KED
	Zn	66	0.039	ug/L	0.021	54	102	124	9	KED
	Zn	67	-0.021	ug/L	0.111	523	22	20	54	KED
	As	75	-0.001	ug/L	0.009	1444	5	5	59	KED
	Se	78	-0.100	ug/L	0.186	185	19	16	34	KED
	Y	89		ug/L			333043	350842	2	Standard
	Kr	83		ug/L			44	46	16	Standard
>	In-1	115		ug/L			10197	10570	1	KED
	Mo	98	0.005	ug/L	0.003	59	9	17	26	KED
	Cd	111	0.003	ug/L	0.008	243	3	5	54	KED
	Cd	114	0.008	ug/L	0.006	76	4	11	46	KED
>	In	115		ug/L			441442	459796	1	Standard
	Ag	107	0.000	ug/L	0.000	62	35	45	10	Standard
	Sb	121	0.008	ug/L	0.002	30	277	413	10	Standard
	Sb	123	0.006	ug/L	0.001	21	218	303	6	Standard
	Ba	135	0.020	ug/L	0.002	10	56	154	6	Standard
	Ba	137	0.025	ug/L	0.003	10	90	306	5	Standard
>	Tb	159		ug/L			829126	848075	2	Standard
	Tl	205	0.001	ug/L	0.001	103	103	125	15	Standard
	Pb	208	-0.003	ug/L	0.000	8	332	201	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0347-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 23:19:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L			451288	424589	2	Standard
⌊	Be	9	25.872	ug/L	0.783	3	8	90045	4	Standard
	C	13		ug/L			30171	42638	2	Standard
	Cl	37		ug/L			1636983	1621889	1	Standard
⌈>	Sc	45		ug/L			558757	535876	6	Standard
⌈	V	51	25.656	ug/L	0.207	0	6588	605622	5	Standard
⌊	V-1	51	25.781	ug/L	0.438	1	458	605167	5	Standard
⌈	Cr	52	26.344	ug/L	0.485	1	19428	524704	4	Standard
⌊	Cr	53	26.760	ug/L	0.935	3	234	59146	5	Standard
⌊	Mn	55	26.261	ug/L	0.514	1	747	734698	5	Standard
⌈>	Ge	72		ug/L			47927	46980	3	KED
⌈	Co	59	27.330	ug/L	0.341	1	7	160138	2	KED
⌊	Ni	60	27.440	ug/L	0.907	3	554	46352	2	KED
	Ni	62	26.790	ug/L	0.831	3	85	7413	3	KED
⌈	Cu	63	26.858	ug/L	0.638	2	97	126837	4	KED
⌊	Cu	65	28.136	ug/L	0.610	2	53	65157	2	KED
⌈	Zn	66	89.163	ug/L	2.302	2	102	55233	1	KED
⌊	Zn	67	83.774	ug/L	0.958	1	22	8430	3	KED
⌈	As	75	27.146	ug/L	0.194	0	5	8974	3	KED
⌊	Se	78	86.924	ug/L	0.489	0	19	2688	3	KED
	Y	89		ug/L			333043	326686	3	Standard
	Kr	83		ug/L			44	50	9	Standard
⌈>	In-1	115		ug/L			10197	10914	1	KED
⌈	Mo	98	26.945	ug/L	0.335	1	9	43580	0	KED
⌊	Cd	111	26.591	ug/L	0.494	1	3	8924	0	KED
⌊	Cd	114	26.888	ug/L	0.702	2	4	23125	2	KED
⌈>	In	115		ug/L			441442	408883	5	Standard
⌈	Ag	107	25.673	ug/L	0.384	1	35	428527	4	Standard
⌈	Sb	121	26.666	ug/L	0.642	2	277	365827	5	Standard
⌊	Sb	123	26.853	ug/L	0.703	2	218	281589	6	Standard
⌈	Ba	135	26.771	ug/L	0.866	3	56	116618	6	Standard
⌊	Ba	137	27.874	ug/L	0.892	3	90	212395	5	Standard
⌈>	Tb	159		ug/L			829126	791892	3	Standard
⌈	Tl	205	25.634	ug/L	0.315	1	103	863615	2	Standard
⌊	Pb	208	25.848	ug/L	0.198	0	332	1158669	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0232-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 23:24:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			451288	465297	6	Standard
	Be	9	-0.000	ug/L	0.000	44	8	6	15	Standard
	C	13		ug/L			30171	47639	2	Standard
	Cl	37		ug/L			1636983	1679709	2	Standard
>	Sc	45		ug/L			558757	598804	6	Standard
	V	51	0.021	ug/L	0.012	57	6588	7595	3	Standard
	V-1	51	0.003	ug/L	0.001	37	458	567	2	Standard
	Cr	52	0.179	ug/L	0.041	23	19428	24618	3	Standard
	Cr	53	0.115	ug/L	0.008	7	234	534	5	Standard
	Mn	55	0.049	ug/L	0.003	5	747	2316	3	Standard
>	Ge	72		ug/L			47927	49670	0	KED
	Co	59	0.001	ug/L	0.000	14	7	16	6	KED
	Ni	60	-0.304	ug/L	0.003	0	554	36	13	KED
	Ni	62	-0.265	ug/L	0.012	4	85	11	28	KED
	Cu	63	0.018	ug/L	0.005	27	97	188	13	KED
	Cu	65	0.019	ug/L	0.003	17	53	102	8	KED
	Zn	66	0.965	ug/L	0.094	9	102	737	8	KED
	Zn	67	0.776	ug/L	0.117	15	22	106	10	KED
	As	75	0.003	ug/L	0.003	105	5	6	16	KED
	Se	78	0.008	ug/L	0.092	1096	19	20	13	KED
	Y	89		ug/L			333043	354302	3	Standard
	Kr	83		ug/L			44	38	18	Standard
>	In-1	115		ug/L			10197	11010	3	KED
	Mo	98	0.012	ug/L	0.002	19	9	29	12	KED
	Cd	~~111~~	-0.003	ug/L	0.001	45	3	3	17	KED
	Cd	114	0.000	ug/L	0.001	425	4	4	21	KED
>	In	115		ug/L			441442	455855	3	Standard
	Ag	~~107~~	0.001	ug/L	0.001	69	35	53	25	Standard
	Sb	~~121~~	-0.003	ug/L	0.000	2	277	243	3	Standard
	Sb	123	-0.004	ug/L	0.002	46	218	183	7	Standard
	Ba	135	0.040	ug/L	0.005	11	56	250	7	Standard
	Ba	137	0.036	ug/L	0.001	2	90	401	5	Standard
>	Tb	159		ug/L			829126	849798	2	Standard
	Tl	205	0.000	ug/L	0.000	13	103	114	3	Standard
	Pb	208	0.011	ug/L	0.000	2	332	869	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0232-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 23:29:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			451288	451179	5	Standard
	Be	9	25.277	ug/L	0.181	0	8	93485	6	Standard
	C	13		ug/L			30171	46414	1	Standard
	Cl	37		ug/L			1636983	1676682	2	Standard
>	Sc	45		ug/L			558757	585698	7	Standard
	V	51	25.469	ug/L	0.743	2	6588	656626	5	Standard
	V-1	51	25.655	ug/L	0.772	3	458	657612	5	Standard
	Cr	52	25.741	ug/L	0.386	1	19428	560991	6	Standard
	Cr	53	26.371	ug/L	0.516	1	234	63707	5	Standard
	Mn	55	25.906	ug/L	0.667	2	747	792512	7	Standard
>	Ge	72		ug/L			47927	45849	1	KED
	Co	59	26.076	ug/L	0.786	3	7	149165	3	KED
	Ni	60	26.793	ug/L	0.182	0	554	44210	1	KED
	Ni	62	25.683	ug/L	0.293	1	85	6941	0	KED
	Cu	63	27.224	ug/L	0.427	1	97	125478	1	KED
	Cu	65	27.477	ug/L	0.227	0	53	62127	1	KED
	Zn	66	84.901	ug/L	1.953	2	102	51372	3	KED
	Zn	67	79.446	ug/L	1.273	1	22	7804	1	KED
	As	75	25.356	ug/L	0.495	1	5	8182	2	KED
	Se	78	79.213	ug/L	2.377	3	19	2393	3	KED
	Y	89		ug/L			333043	346313	5	Standard
	Kr	83		ug/L			44	42	20	Standard
>	In-1	115		ug/L			10197	8859	3	KED
	Mo	98	27.296	ug/L	1.309	4	9	35848	6	KED
	Cd	111	26.727	ug/L	2.343	8	3	7285	10	KED
	Cd	114	27.407	ug/L	1.907	6	4	19141	8	KED
>	In	115		ug/L			441442	443436	9	Standard
	Ag	107	26.663	ug/L	1.206	4	35	481351	5	Standard
	Sb	121	26.285	ug/L	0.997	3	277	390206	5	Standard
	Sb	123	26.455	ug/L	0.878	3	218	300131	6	Standard
	Ba	135	27.790	ug/L	0.370	1	56	131324	10	Standard
	Ba	137	28.153	ug/L	1.022	3	90	232159	5	Standard
>	Tb	159		ug/L			829126	835545	5	Standard
	Tl	205	26.179	ug/L	0.247	0	103	930876	5	Standard
	Pb	208	26.538	ug/L	0.525	1	332	1255816	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0648-02
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, April 25, 2023 23:34:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			451288	476161	0	Standard
	Be	9	0.010	ug/L	0.002	23	8	48	18	Standard
	C	13		ug/L			30171	60889	2	Standard
	Cl	37		ug/L			1636983	1427354	2	Standard
>	Sc	45		ug/L			558757	821084	0	Standard
	V	51	24.395	ug/L	0.131	0	6588	882959	0	Standard
	V-1	51	24.631	ug/L	0.119	0	458	886081	0	Standard
	Cr	52	0.505	ug/L	0.040	8	19428	43423	1	Standard
	Cr	53	1.647	ug/L	0.058	3	234	5905	3	Standard
	Mn	55	326.892	ug/L	3.219	0	747	14004572	1	Standard
>	Ge	72		ug/L			47927	43226	11	KED
	Co	59	2.174	ug/L	0.250	11	7	11637	3	KED
	Ni	60	5.876	ug/L	0.550	9	554	9473	4	KED
	Ni	62	5.922	ug/L	0.411	6	85	1560	5	KED
	Cu	63	8.742	ug/L	0.992	11	97	37754	3	KED
	Cu	65	8.804	ug/L	0.896	10	53	18664	2	KED
	Zn	66	3.361	ug/L	0.421	12	102	1988	1	KED
	Zn	67	3.725	ug/L	0.730	19	22	361	13	KED
	As	75	1.426	ug/L	0.197	13	5	434	5	KED
	Se	78	0.452	ug/L	0.143	31	19	30	4	KED
	Y	89		ug/L			333043	379019	0	Standard
	Kr	83		ug/L			44	62	9	Standard
>	In-1	115		ug/L			10197	10400	2	KED
	Mo	98	20.745	ug/L	0.130	0	9	31976	1	KED
	Cd	111	0.033	ug/L	0.008	24	3	14	19	KED
	Cd	114	0.029	ug/L	0.004	14	4	27	14	KED
>	In	115		ug/L			441442	437524	1	Standard
	Ag	107	0.002	ug/L	0.000	1	35	71	1	Standard
	Sb	121	0.092	ug/L	0.002	2	277	1625	1	Standard
	Sb	123	0.089	ug/L	0.005	5	218	1209	3	Standard
	Ba	135	4.914	ug/L	0.025	0	56	22946	0	Standard
	Ba	137	5.086	ug/L	0.121	2	90	41541	1	Standard
>	Tb	159		ug/L			829126	875085	1	Standard
	Tl	205	0.022	ug/L	0.000	0	103	918	2	Standard
	Pb	208	0.102	ug/L	0.006	5	332	5410	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0648-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 23:39:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			451288	459784	2	Standard
	Be	**9**	**0.019**	ug/L	0.003	15	8	81	16	Standard
	C	**13**		ug/L			30171	59365	1	Standard
	Cl	**37**		ug/L			1636983	1433371	1	Standard
>	**Sc**	**45**		ug/L			558757	798963	4	Standard
	V	**51**	**25.966**	ug/L	1.051	4	6588	912782	1	Standard
	V-1	**51**	**26.206**	ug/L	1.056	4	458	916161	1	Standard
	Cr	**52**	**1.373**	ug/L	0.024	1	19428	67109	3	Standard
	Cr	**53**	**2.537**	ug/L	0.086	3	234	8663	3	Standard
	Mn	**55**	**328.967**	ug/L	6.903	2	747	13704182	2	Standard
>	**Ge**	**72**		ug/L			47927	43805	4	KED
	Co	**59**	**2.071**	ug/L	0.079	3	7	11321	5	KED
	Ni	**60**	**5.574**	ug/L	0.092	1	554	9190	5	KED
	Ni	**62**	**5.590**	ug/L	0.333	5	85	1506	9	KED
	Cu	**63**	**8.946**	ug/L	0.068	0	97	39450	4	KED
	Cu	**65**	**9.123**	ug/L	0.162	1	53	19750	6	KED
	Zn	**66**	**4.520**	ug/L	0.128	2	102	2699	2	KED
	Zn	**67**	**4.947**	ug/L	0.361	7	22	483	4	KED
	As	**75**	**1.423**	ug/L	0.034	2	5	443	2	KED
	Se	**78**	**0.421**	ug/L	0.072	17	19	30	2	KED
	Y	**89**		ug/L			333043	388842	0	Standard
	Kr	**83**		ug/L			44	73	9	Standard
>	**In-1**	**115**		ug/L			10197	9829	1	KED
	Mo	**98**	**20.854**	ug/L	0.764	3	9	30378	3	KED
	Cd	**111**	**0.039**	ug/L	0.024	60	3	15	46	KED
	Cd	**114**	**0.041**	ug/L	0.018	45	4	35	40	KED
>	**In**	**115**		ug/L			441442	443556	1	Standard
	Ag	**107**	**0.007**	ug/L	0.001	10	35	158	6	Standard
	Sb	**121**	**0.098**	ug/L	0.002	2	277	1741	2	Standard
	Sb	**123**	**0.099**	ug/L	0.012	12	218	1346	9	Standard
	Ba	**135**	**7.041**	ug/L	0.222	3	56	33307	2	Standard
	Ba	**137**	**7.317**	ug/L	0.214	2	90	60544	1	Standard
>	**Tb**	**159**		ug/L			829126	866328	0	Standard
	Tl	**205**	**0.023**	ug/L	0.000	0	103	939	1	Standard
	Pb	**208**	**0.374**	ug/L	0.010	2	332	18690	2	Standard

23D0137

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~23C0137~~-01

Sample Dil Factor:

Comments:

Sample Date/Time: Tuesday, April 25, 2023 23:44:59

MB 4/25/23

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			451288	477220	1	Standard
	Be	9	0.001	ug/L	0.002	180	8	12	50	Standard
	C	13		ug/L			30171	49590	2	Standard
	Cl	37		ug/L			1636983	1560636	1	Standard
>	Sc	45		ug/L			558757	707555	2	Standard
	V	51	0.296	ug/L	0.012	4	6588	17476	1	Standard
	V-1	51	0.418	ug/L	0.013	3	458	13539	1	Standard
	Cr	52	0.052	ug/L	0.005	9	19428	25932	2	Standard
	Cr	53	0.472	ug/L	0.004	0	234	1671	1	Standard
	Mn	55	40.044	ug/L	1.291	3	747	1478827	3	Standard
>	Ge	72		ug/L			47927	45991	7	KED
	Co	59	0.807	ug/L	0.008	1	7	4636	7	KED
	Ni	60	-0.024	ug/L	0.012	49	554	492	9	KED
	Ni	62	-0.003	ug/L	0.056	2011	85	80	16	KED
	Cu	63	0.810	ug/L	0.018	2	97	3838	8	KED
	Cu	65	0.835	ug/L	0.008	0	53	1944	7	KED
	Zn	66	4.734	ug/L	0.052	1	102	2966	8	KED
	Zn	67	5.141	ug/L	0.299	5	22	526	6	KED
	As	75	0.112	ug/L	0.011	10	5	41	13	KED
	Se	78	0.040	ug/L	0.098	244	19	20	10	KED
	Y	89		ug/L			333043	357292	0	Standard
	Kr	83		ug/L			44	59	21	Standard
>	In-1	115		ug/L			10197	10017	6	KED
	Mo	98	0.061	ug/L	0.001	1	9	99	5	KED
	Cd	111	0.004	ug/L	0.007	196	3	4	40	KED
	Cd	114	0.011	ug/L	0.003	22	4	13	15	KED
>	In	115		ug/L			441442	454114	1	Standard
	Ag	107	0.000	ug/L	0.001	287	35	40	25	Standard
	Sb	121	-0.001	ug/L	0.002	200	277	271	9	Standard
	Sb	123	-0.001	ug/L	0.003	573	218	219	15	Standard
	Ba	135	4.244	ug/L	0.164	3	56	20570	2	Standard
	Ba	137	4.425	ug/L	0.191	4	90	37510	2	Standard
>	Tb	159		ug/L			829126	873859	0	Standard
	Tl	205	0.000	ug/L	0.000	1051	103	110	13	Standard
	Pb	208	-0.000	ug/L	0.000	163	332	342	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0592-DUP2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 23:50:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
Li	6		ug/L			451288	487448	2	Standard
Be	9	0.006	ug/L	0.002	36	8	31	24	Standard
C	13		ug/L			30171	49331	2	Standard
Cl	37		ug/L			1636983	1564162	2	Standard
Sc	45		ug/L			558757	719979	2	Standard
V	51	0.311	ug/L	0.004	1	6588	18257	3	Standard
V-1	51	0.421	ug/L	0.004	1	458	13858	3	Standard
Cr	52	0.048	ug/L	0.011	23	19428	26266	3	Standard
Cr	53	0.425	ug/L	0.013	3	234	1561	5	Standard
Mn	55	40.680	ug/L	0.438	1	747	1529104	3	Standard
Ge	72		ug/L			47927	48385	3	KED
Co	59	0.822	ug/L	0.023	2	7	4971	6	KED
Ni	60	-0.005	ug/L	0.005	90	554	550	3	KED
Ni	62	-0.023	ug/L	0.062	268	85	79	21	KED
Cu	63	1.199	ug/L	0.047	3	97	5924	5	KED
Cu	65	1.271	ug/L	0.041	3	53	3085	6	KED
Zn	66	5.323	ug/L	0.061	1	102	3494	2	KED
Zn	67	5.363	ug/L	0.285	5	22	577	7	KED
As	75	0.119	ug/L	0.023	19	5	46	20	KED
Se	78	-0.030	ug/L	0.053	172	19	19	7	KED
Y	89		ug/L			333043	352420	3	Standard
Kr	83		ug/L			44	41	25	Standard
In-1	115		ug/L			10197	10375	0	KED
Mo	98	0.068	ug/L	0.005	7	9	113	7	KED
Cd	111	0.016	ug/L	0.017	107	3	8	60	KED
Cd	114	0.009	ug/L	0.001	13	4	11	7	KED
In	115		ug/L			441442	452253	2	Standard
Ag	107	-0.000	ug/L	0.001	242	35	32	32	Standard
Sb	121	0.001	ug/L	0.001	53	277	300	1	Standard
Sb	123	-0.001	ug/L	0.002	261	218	214	12	Standard
Ba	135	4.439	ug/L	0.140	3	56	21431	3	Standard
Ba	137	4.516	ug/L	0.277	6	90	38135	5	Standard
Tb	159		ug/L			829126	894715	2	Standard
Tl	205	0.000	ug/L	0.000	223	103	119	15	Standard
Pb	208	0.019	ug/L	0.002	10	332	1335	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0592-MS2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, April 25, 2023 23:56:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			451288	455053	2	Standard
	Be	9	25.293	ug/L	0.343	1	8	94341	3	Standard
	C	13		ug/L			30171	44262	2	Standard
	Cl	37		ug/L			1636983	1576020	2	Standard
>	Sc	45		ug/L			558757	680686	1	Standard
	V	51	21.937	ug/L	0.269	1	6588	658954	0	Standard
	V-1	51	22.074	ug/L	0.194	0	458	658312	0	Standard
	Cr	52	21.853	ug/L	0.163	0	19428	557340	2	Standard
	Cr	53	22.320	ug/L	0.574	2	234	62774	3	Standard
	Mn	55	63.483	ug/L	0.094	0	747	2255316	1	Standard
>	Ge	72		ug/L			47927	46937	5	KED
	Co	59	26.509	ug/L	0.180	0	7	155245	5	KED
	Ni	60	26.457	ug/L	0.549	2	554	44691	5	KED
	Ni	62	26.639	ug/L	0.516	1	85	7365	4	KED
	Cu	63	27.037	ug/L	0.632	2	97	127539	4	KED
	Cu	65	28.062	ug/L	0.259	0	53	64962	5	KED
	Zn	66	87.237	ug/L	1.054	1	102	54004	4	KED
	Zn	67	82.842	ug/L	2.370	2	22	8322	2	KED
	As	75	25.765	ug/L	0.338	1	5	8514	6	KED
	Se	78	79.451	ug/L	0.504	0	19	2456	4	KED
	Y	89		ug/L			333043	346595	1	Standard
	Kr	83		ug/L			44	53	10	Standard
>	In-1	115		ug/L			10197	10785	0	KED
	Mo	98	26.258	ug/L	0.555	2	9	41969	1	KED
	Cd	111	26.264	ug/L	0.804	3	3	8710	2	KED
	Cd	114	25.973	ug/L	1.020	3	4	22072	3	KED
>	In	115		ug/L			441442	432269	3	Standard
	Ag	107	25.163	ug/L	0.367	1	35	444064	2	Standard
	Sb	121	26.350	ug/L	0.469	1	277	382131	1	Standard
	Sb	123	25.917	ug/L	0.224	0	218	287188	2	Standard
	Ba	135	31.114	ug/L	1.027	3	56	143267	4	Standard
	Ba	137	33.273	ug/L	0.779	2	90	268122	4	Standard
>	Tb	159		ug/L			829126	857887	2	Standard
	Tl	205	25.488	ug/L	0.587	2	103	930226	1	Standard
	Pb	208	25.579	ug/L	0.576	2	332	1241524	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 00:01:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			451288	488423	2	Standard
⌊	**Be**	**9**	**-0.001**	ug/L	0.001	47	8	4	49	Standard
	C	**13**		ug/L			30171	30228	2	Standard
	Cl	**37**		ug/L			1636983	1671517	1	Standard
⌈>	**Sc**	**45**		ug/L			558757	615164	1	Standard
⌈	**V**	**51**	**0.020**	ug/L	0.003	13	6588	7793	0	Standard
⌊	**V-1**	**51**	**0.003**	ug/L	0.000	11	458	582	2	Standard
⌈	**Cr**	**52**	**0.068**	ug/L	0.013	18	19428	22900	1	Standard
⌊	**Cr**	**53**	**0.009**	ug/L	0.008	83	234	281	7	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.001	189	747	798	4	Standard
⌈>	**Ge**	**72**		ug/L			47927	46901	4	KED
⌈	**Co**	**59**	**0.001**	ug/L	0.001	100	7	12	36	KED
⌊	**Ni**	**60**	**-0.315**	ug/L	0.002	0	554	17	11	KED
⌈	**Ni**	**62**	**-0.286**	ug/L	0.010	3	85	5	57	KED
⌈	**Cu**	**63**	**0.015**	ug/L	0.004	28	97	166	9	KED
⌊	**Cu**	**65**	**0.014**	ug/L	0.003	25	53	83	6	KED
⌈	**Zn**	**66**	**0.044**	ug/L	0.019	42	102	127	13	KED
⌊	**Zn**	**67**	**-0.058**	ug/L	0.035	60	22	16	17	KED
⌈	**As**	**75**	**-0.004**	ug/L	0.006	152	5	4	43	KED
⌊	**Se**	**78**	**-0.071**	ug/L	0.219	307	19	17	36	KED
	Y	**89**		ug/L			333043	359467	2	Standard
	Kr	**83**		ug/L			44	39	19	Standard
⌈>	**In-1**	**115**		ug/L			10197	10824	2	KED
⌈	**Mo**	**98**	**0.005**	ug/L	0.005	115	9	17	51	KED
⌈	**Cd**	**111**	**0.005**	ug/L	0.008	154	3	5	44	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.005	99	4	8	46	KED
⌈>	**In**	**115**		ug/L			441442	458460	2	Standard
⌈	**Ag**	**107**	**-0.000**	ug/L	0.000	2970	35	36	10	Standard
⌈	**Sb**	**121**	**-0.012**	ug/L	0.001	9	277	106	14	Standard
⌊	**Sb**	**123**	**-0.012**	ug/L	0.001	8	218	80	15	Standard
⌈	**Ba**	**135**	**0.020**	ug/L	0.004	20	56	156	13	Standard
⌊	**Ba**	**137**	**0.022**	ug/L	0.003	12	90	277	7	Standard
⌈>	**Tb**	**159**		ug/L			829126	851858	3	Standard
⌈	**Tl**	**205**	**-0.000**	ug/L	0.000	40	103	96	6	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	63	332	394	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 00:06:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			451288	453455	6	Standard
⌊	**Be**	**9**	**50.131**	ug/L	0.989	1	8	186402	7	Standard
	C	**13**		ug/L			30171	28907	2	Standard
	Cl	**37**		ug/L			1636983	1649237	1	Standard
⌈>	**Sc**	**45**		ug/L			558757	588639	6	Standard
⌈	**V**	**51**	**48.814**	ug/L	0.387	0	6588	1259288	6	Standard
⌊	**V-1**	**51**	**48.952**	ug/L	0.646	1	458	1261296	5	Standard
⌈	**Cr**	**52**	**49.668**	ug/L	1.840	3	19428	1069421	7	Standard
⌊	**Cr**	**53**	**50.125**	ug/L	1.915	3	234	121486	6	Standard
⌊	**Mn**	**55**	**49.546**	ug/L	0.671	1	747	1521439	5	Standard
⌈>	**Ge**	**72**		ug/L			47927	48096	1	KED
⌈	**Co**	**59**	**51.003**	ug/L	0.339	0	7	306040	2	KED
⌈	**Ni**	**60**	**51.096**	ug/L	0.727	1	554	87949	2	KED
⌊	**Ni**	**62**	**50.094**	ug/L	1.011	2	85	14125	3	KED
⌈	**Cu**	**63**	**50.969**	ug/L	0.465	0	97	246344	1	KED
⌊	**Cu**	**65**	**51.541**	ug/L	1.383	2	53	122225	4	KED
⌈	**Zn**	**66**	**50.503**	ug/L	0.938	1	102	32095	2	KED
⌊	**Zn**	**67**	**51.884**	ug/L	1.051	2	22	5355	3	KED
⌈	**As**	**75**	**50.344**	ug/L	0.464	0	5	17036	2	KED
⌊	**Se**	**78**	**49.727**	ug/L	0.693	1	19	1583	1	KED
	Y	**89**		ug/L			333043	351079	3	Standard
	Kr	**83**		ug/L			44	60	14	Standard
⌈>	**In-1**	**115**		ug/L			10197	10582	4	KED
⌈	**Mo**	**98**	**51.592**	ug/L	1.482	2	9	80840	1	KED
⌈	**Cd**	**111**	**51.170**	ug/L	1.741	3	3	16634	0	KED
⌊	**Cd**	**114**	**51.749**	ug/L	2.337	4	4	43098	0	KED
⌈>	**In**	**115**		ug/L			441442	427620	6	Standard
⌈	**Ag**	**107**	**49.967**	ug/L	1.057	2	35	871635	4	Standard
⌈	**Sb**	**121**	**49.267**	ug/L	1.085	2	277	706247	5	Standard
⌊	**Sb**	**123**	**50.310**	ug/L	1.554	3	218	550923	5	Standard
⌈	**Ba**	**135**	**51.820**	ug/L	0.640	1	56	235897	5	Standard
⌊	**Ba**	**137**	**53.668**	ug/L	0.539	1	90	427511	5	Standard
⌈>	**Tb**	**159**		ug/L			829126	826747	5	Standard
⌈	**Tl**	**205**	**49.366**	ug/L	1.029	2	103	1737721	6	Standard
⌊	**Pb**	**208**	**49.989**	ug/L	1.112	2	332	2340140	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 00:14:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			451288	437252	8	Standard
⌊	**Be**	**9**	**-0.001**	ug/L	0.000	39	8	4	24	Standard
	C	**13**		ug/L			30171	28686	6	Standard
	Cl	**37**		ug/L			1636983	1726422	2	Standard
⌈>	**Sc**	**45**		ug/L			558757	564393	7	Standard
⌈	**V**	**51**	**0.023**	ug/L	0.006	26	6588	7215	8	Standard
⌊	**V-1**	**51**	**0.003**	ug/L	0.001	56	458	523	1	Standard
⌈	**Cr**	**52**	**0.090**	ug/L	0.025	28	19428	21443	7	Standard
⌊	**Cr**	**53**	**0.020**	ug/L	0.008	40	234	282	3	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.001	126	747	779	7	Standard
⌈>	**Ge**	**72**		ug/L			47927	47404	6	KED
⌈	**Co**	**59**	**-0.000**	ug/L	0.001	143	7	5	78	KED
⌊	**Ni**	**60**	**0.009**	ug/L	0.008	90	554	563	7	KED
⌈	**Ni**	**62**	**0.051**	ug/L	0.031	61	85	97	2	KED
⌈	**Cu**	**63**	**-0.001**	ug/L	0.001	66	97	89	4	KED
⌊	**Cu**	**65**	**-0.002**	ug/L	0.004	241	53	49	16	KED
⌈	**Zn**	**66**	**0.017**	ug/L	0.015	84	102	111	8	KED
⌊	**Zn**	**67**	**-0.053**	ug/L	0.059	112	22	17	33	KED
⌈	**As**	**75**	**-0.003**	ug/L	0.004	148	5	4	36	KED
⌊	**Se**	**78**	**-0.003**	ug/L	0.143	4357	19	19	26	KED
	Y	**89**		ug/L			333043	328429	6	Standard
	Kr	**83**		ug/L			44	41	30	Standard
⌈>	**In-1**	**115**		ug/L			10197	11313	1	KED
⌈	**Mo**	**98**	**0.001**	ug/L	0.004	249	9	12	47	KED
⌈	**Cd**	**111**	**0.001**	ug/L	0.006	851	3	4	44	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.005	357	4	5	79	KED
⌈>	**In**	**115**		ug/L			441442	424812	4	Standard
⌈	**Ag**	**107**	**0.001**	ug/L	0.001	59	35	50	23	Standard
⌈	**Sb**	**121**	**0.035**	ug/L	0.006	18	277	772	16	Standard
⌊	**Sb**	**123**	**0.033**	ug/L	0.004	12	218	572	11	Standard
⌈	**Ba**	**135**	**-0.002**	ug/L	0.003	169	56	46	23	Standard
⌊	**Ba**	**137**	**0.001**	ug/L	0.000	56	90	92	3	Standard
⌈>	**Tb**	**159**		ug/L			829126	795456	5	Standard
⌈	**Tl**	**205**	**0.002**	ug/L	0.001	37	103	180	11	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	64	332	333	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0674-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 00:19:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			451288	485384	1	Standard
[	**Be**	**9**	**0.003**	ug/L	0.002	70	8	20	41	Standard
	C	**13**		ug/L			30171	62777	1	Standard
	Cl	**37**		ug/L			1636983	1671863	1	Standard
[>	**Sc**	**45**		ug/L			558757	664634	0	Standard
[	**V**	**51**	**0.859**	ug/L	0.048	5	6588	32720	3	Standard
[	**V-1**	**51**	**1.152**	ug/L	0.011	0	458	34064	1	Standard
[	**Cr**	**52**	**5.538**	ug/L	0.126	2	19428	155167	1	Standard
[	**Cr**	**53**	**6.470**	ug/L	0.135	2	234	17963	2	Standard
[	**Mn**	**55**	**138.428**	ug/L	3.522	2	747	4800960	2	Standard
[>	**Ge**	**72**		ug/L			47927	48647	2	KED
[	**Co**	**59**	**1.053**	ug/L	0.025	2	7	6398	4	KED
[	**Ni**	**60**	**6.988**	ug/L	0.100	1	554	12651	3	KED
[	**Ni**	**62**	**7.034**	ug/L	0.218	3	85	2080	4	KED
[	**Cu**	**63**	**13.789**	ug/L	0.050	0	97	67482	2	KED
[	**Cu**	**65**	**13.989**	ug/L	0.177	1	53	33592	3	KED
[	**Zn**	**66**	**139.669**	ug/L	0.584	0	102	89581	1	KED
[	**Zn**	**67**	**132.215**	ug/L	2.348	1	22	13767	3	KED
[	**As**	**75**	**0.536**	ug/L	0.033	6	5	189	5	KED
[	**Se**	**78**	**0.180**	ug/L	0.013	7	19	25	1	KED
	Y	**89**		ug/L			333043	378245	2	Standard
	Kr	**83**		ug/L			44	53	25	Standard
[>	**In-1**	**115**		ug/L			10197	10894	3	KED
[	**Mo**	**98**	**1.569**	ug/L	0.062	3	9	2540	2	KED
[	**Cd**	**111**	**0.183**	ug/L	0.008	4	3	65	6	KED
[	**Cd**	**114**	**0.176**	ug/L	0.023	13	4	155	10	KED
[>	**In**	**115**		ug/L			441442	462933	0	Standard
[	**Ag**	**107**	**0.007**	ug/L	0.001	19	35	164	14	Standard
[	**Sb**	**121**	**0.778**	ug/L	0.029	3	277	12365	3	Standard
[	**Sb**	**123**	**0.782**	ug/L	0.024	3	218	9499	3	Standard
[	**Ba**	**135**	**16.837**	ug/L	0.428	2	56	83046	2	Standard
[	**Ba**	**137**	**17.339**	ug/L	0.688	3	90	149635	3	Standard
[>	**Tb**	**159**		ug/L			829126	891013	1	Standard
[	**Tl**	**205**	**0.005**	ug/L	0.001	17	103	311	11	Standard
[	**Pb**	**208**	**0.899**	ug/L	0.011	1	332	45687	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0674-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, April 26, 2023 00:24:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			451288	464171	5	Standard
	Be	**9**	**0.063**	ug/L	0.004	6	8	249	3	Standard
	C	**13**		ug/L			30171	50477	0	Standard
	Cl	**37**		ug/L			1636983	1656508	2	Standard
>	**Sc**	**45**		ug/L			558757	668732	3	Standard
	V	**51**	**9.023**	ug/L	0.246	2	6588	271030	5	Standard
	V-1	**51**	**9.439**	ug/L	0.224	2	458	277012	5	Standard
	Cr	**52**	**22.686**	ug/L	0.270	1	19428	567439	2	Standard
	Cr	**53**	**23.909**	ug/L	0.098	0	234	66033	3	Standard
	Mn	**55**	**117.929**	ug/L	2.634	2	747	4116526	5	Standard
>	**Ge**	**72**		ug/L			47927	43539	11	KED
	Co	**59**	**1.930**	ug/L	0.205	10	7	10438	9	KED
	Ni	**60**	**10.112**	ug/L	1.242	12	554	16052	8	KED
	Ni	**62**	**10.415**	ug/L	1.824	17	85	2694	11	KED
	Cu	**63**	**76.953**	ug/L	8.233	10	97	334565	7	KED
	Cu	**65**	**78.788**	ug/L	8.830	11	53	168002	7	KED
	Zn	**66**	**145.674**	ug/L	17.309	11	102	83071	8	KED
	Zn	**67**	**139.025**	ug/L	14.317	10	22	12888	9	KED
	As	**75**	**2.337**	ug/L	0.321	13	5	713	5	KED
	Se	**78**	**0.413**	ug/L	0.093	22	19	29	7	KED
	Y	**89**		ug/L			333043	452920	1	Standard
	Kr	**83**		ug/L			44	47	10	Standard
>	**In-1**	**115**		ug/L			10197	10782	1	KED
	Mo	**98**	**1.193**	ug/L	0.014	1	9	1915	2	KED
	Cd	**111**	**0.430**	ug/L	0.049	11	3	146	10	KED
	Cd	**114**	**0.411**	ug/L	0.014	3	4	353	1	KED
>	**In**	**115**		ug/L			441442	451344	4	Standard
	Ag	**107**	**0.075**	ug/L	0.002	2	35	1419	2	Standard
	Sb	**121**	**0.991**	ug/L	0.018	1	277	15291	5	Standard
	Sb	**123**	**0.982**	ug/L	0.043	4	218	11569	1	Standard
	Ba	**135**	**26.341**	ug/L	0.788	2	56	126587	3	Standard
	Ba	**137**	**27.134**	ug/L	0.343	1	90	228304	4	Standard
>	**Tb**	**159**		ug/L			829126	865026	2	Standard
	Tl	**205**	**0.018**	ug/L	0.001	7	103	772	8	Standard
	Pb	**208**	**28.734**	ug/L	0.528	1	332	1406492	2	Standard

23D0358

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~23C0358~~-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, April 26, 2023 00:30:21

MB 4/25/23

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
Li	6		ug/L			451288	583508	3	Standard
Be	9	-0.000	ug/L	0.001	382	8	8	65	Standard
C	13		ug/L			30171	50769	4	Standard
Cl	37		ug/L			1636983	1081938	0	Standard
Sc	45		ug/L			558757	592259	3	Standard
V	51	0.704	ug/L	0.019	2	6588	25182	5	Standard
V-1	51	0.775	ug/L	0.018	2	458	20580	3	Standard
Cr	52	5.736	ug/L	0.108	1	19428	142411	2	Standard
Cr	53	5.905	ug/L	0.174	2	234	14620	1	Standard
Mn	55	4.772	ug/L	0.077	1	747	148171	2	Standard
Ge	72		ug/L			47927	45641	2	KED
Co	59	0.485	ug/L	0.011	2	7	2767	1	KED
Ni	60	0.075	ug/L	0.013	16	554	648	2	KED
Ni	62	0.126	ug/L	0.093	73	85	114	20	KED
Cu	63	2.660	ug/L	0.065	2	97	12285	2	KED
Cu	65	2.798	ug/L	0.055	1	53	6343	2	KED
Zn	66	3.805	ug/L	0.197	5	102	2385	6	KED
Zn	67	3.332	ug/L	0.113	3	22	346	2	KED
As	75	0.062	ug/L	0.012	18	5	25	13	KED
Se	78	0.255	ug/L	0.111	43	19	26	14	KED
Y	89		ug/L			333043	346245	4	Standard
Kr	83		ug/L			44	50	11	Standard
In-1	115		ug/L			10197	9970	3	KED
Mo	98	3.127	ug/L	0.013	0	9	4628	3	KED
Cd	111	0.009	ug/L	0.005	56	3	6	22	KED
Cd	114	0.003	ug/L	0.005	154	4	6	58	KED
In	115		ug/L			441442	436846	3	Standard
Ag	107	0.001	ug/L	0.000	50	35	52	14	Standard
Sb	121	0.285	ug/L	0.007	2	277	4440	1	Standard
Sb	123	0.292	ug/L	0.011	3	218	3482	0	Standard
Ba	135	1.026	ug/L	0.017	1	56	4825	2	Standard
Ba	137	1.052	ug/L	0.003	0	90	8655	3	Standard
Tb	159		ug/L			829126	902742	2	Standard
Tl	205	0.002	ug/L	0.000	18	103	188	5	Standard
Pb	208	0.021	ug/L	0.001	3	332	1431	2	Standard

23D0358

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~23C0358~~-02

Sample Dil Factor: 2

Comments:

Sample Date/Time: Wednesday, April 26, 2023 00:35:19

MB 4/25/23

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
Li	6		ug/L			451288	592875	2	Standard
Be	9	-0.001	ug/L	0.000	57	8	6	31	Standard
C	13		ug/L			30171	51629	4	Standard
Cl	37		ug/L			1636983	1068624	3	Standard
Sc	45		ug/L			558757	570405	3	Standard
V	51	0.752	ug/L	0.035	4	6588	25441	5	Standard
V-1	51	0.755	ug/L	0.007	0	458	19331	3	Standard
Cr	52	6.705	ug/L	0.050	0	19428	157029	3	Standard
Cr	53	6.631	ug/L	0.079	1	234	15790	2	Standard
Mn	55	4.705	ug/L	0.030	0	747	140752	2	Standard
Ge	72		ug/L			47927	43887	1	KED
Co	59	1.009	ug/L	0.029	2	7	5530	4	KED
Ni	60	0.120	ug/L	0.025	20	554	693	5	KED
Ni	62	0.140	ug/L	0.059	42	85	113	11	KED
Cu	63	3.370	ug/L	0.066	1	97	14946	2	KED
Cu	65	3.494	ug/L	0.114	3	53	7608	4	KED
Zn	66	2.203	ug/L	0.074	3	102	1367	4	KED
Zn	67	1.961	ug/L	0.306	15	22	205	15	KED
As	75	0.052	ug/L	0.009	18	5	21	15	KED
Se	78	0.130	ug/L	0.076	58	19	21	11	KED
Y	89		ug/L			333043	316415	1	Standard
Kr	83		ug/L			44	40	9	Standard
In-1	115		ug/L			10197	9343	1	KED
Mo	98	3.294	ug/L	0.163	4	9	4568	5	KED
Cd	111	0.002	ug/L	0.004	169	3	4	26	KED
Cd	114	0.010	ug/L	0.015	144	4	11	95	KED
In	115		ug/L			441442	425344	3	Standard
Ag	107	0.001	ug/L	0.001	99	35	53	36	Standard
Sb	121	0.208	ug/L	0.006	2	277	3231	5	Standard
Sb	123	0.216	ug/L	0.001	0	218	2565	4	Standard
Ba	135	1.034	ug/L	0.024	2	56	4734	2	Standard
Ba	137	1.088	ug/L	0.012	1	90	8708	3	Standard
Tb	159		ug/L			829126	862835	2	Standard
Tl	205	0.002	ug/L	0.001	52	103	166	21	Standard
Pb	208	0.019	ug/L	0.002	8	332	1267	7	Standard

23D0358

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~23C0358~~-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, April 26, 2023 00:40:46

MB 4/25/23

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
Li	6		ug/L			451288	622506	8	Standard
Be	9	-0.001	ug/L	0.000	29	8	5	33	Standard
C	13		ug/L			30171	47642	2	Standard
Cl	37		ug/L			1636983	1051283	4	Standard
Sc	45		ug/L			558757	564248	8	Standard
V	51	0.737	ug/L	0.009	1	6588	24778	8	Standard
V-1	51	0.767	ug/L	0.013	1	458	19410	7	Standard
Cr	52	5.606	ug/L	0.110	1	19428	132979	6	Standard
Cr	53	5.641	ug/L	0.138	2	234	13310	6	Standard
Mn	55	4.076	ug/L	0.107	2	747	120600	6	Standard
Ge	72		ug/L			47927	44185	1	KED
Co	59	0.690	ug/L	0.021	2	7	3812	3	KED
Ni	60	0.099	ug/L	0.018	18	554	666	4	KED
Ni	62	0.100	ug/L	0.045	45	85	104	10	KED
Cu	63	2.585	ug/L	0.043	1	97	11562	2	KED
Cu	65	2.691	ug/L	0.043	1	53	5907	0	KED
Zn	66	1.088	ug/L	0.035	3	102	727	2	KED
Zn	67	1.089	ug/L	0.084	7	22	123	5	KED
As	75	0.055	ug/L	0.005	8	5	22	6	KED
Se	78	0.039	ug/L	0.135	346	19	19	20	KED
Y	89		ug/L			333043	310938	2	Standard
Kr	83		ug/L			44	50	7	Standard
In-1	115		ug/L			10197	9856	0	KED
Mo	98	3.205	ug/L	0.039	1	9	4689	1	KED
Cd	111	0.002	ug/L	0.006	258	3	4	44	KED
Cd	114	0.006	ug/L	0.006	109	4	8	58	KED
In	115		ug/L			441442	422921	5	Standard
Ag	107	0.000	ug/L	0.001	768	35	34	20	Standard
Sb	121	0.161	ug/L	0.005	3	277	2544	4	Standard
Sb	123	0.160	ug/L	0.006	3	218	1938	5	Standard
Ba	135	1.026	ug/L	0.009	0	56	4676	5	Standard
Ba	137	1.064	ug/L	0.005	0	90	8472	5	Standard
Tb	159		ug/L			829126	867460	4	Standard
Tl	205	0.002	ug/L	0.000	13	103	179	1	Standard
Pb	208	0.019	ug/L	0.001	6	332	1300	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0647-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, April 26, 2023 00:47:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			451288	508702	6	Standard
⌊	**Be**	**9**	**-0.001**	ug/L	0.001	154	8	6	62	Standard
	C	**13**		ug/L			30171	138960	3	Standard
	Cl	**37**		ug/L			1636983	1558810	2	Standard
⌈>	**Sc**	**45**		ug/L			558757	558108	4	Standard
⌈	**V**	**51**	**0.134**	ug/L	0.055	41	6588	9866	17	Standard
⌊	**V-1**	**51**	**0.068**	ug/L	0.003	3	458	2109	1	Standard
⌈	**Cr**	**52**	**4.780**	ug/L	0.125	2	19428	115169	6	Standard
⌊	**Cr**	**53**	**4.490**	ug/L	0.162	3	234	10533	4	Standard
⌊	**Mn**	**55**	**16.691**	ug/L	0.409	2	747	487062	6	Standard
⌈>	**Ge**	**72**		ug/L			47927	46076	3	KED
⌈	**Co**	**59**	**0.069**	ug/L	0.009	13	7	404	12	KED
⌊	**Ni**	**60**	**0.478**	ug/L	0.047	9	554	1316	6	KED
⌈	**Ni**	**62**	**0.523**	ug/L	0.042	8	85	222	6	KED
⌈	**Cu**	**63**	**1.691**	ug/L	0.097	5	97	7917	5	KED
⌊	**Cu**	**65**	**1.775**	ug/L	0.040	2	53	4080	2	KED
⌈	**Zn**	**66**	**324.226**	ug/L	5.386	1	102	196845	3	KED
⌊	**Zn**	**67**	**302.333**	ug/L	9.325	3	22	29777	2	KED
⌈	**As**	**75**	**0.023**	ug/L	0.002	10	5	12	5	KED
⌊	**Se**	**78**	**0.130**	ug/L	0.014	10	19	23	3	KED
	Y	**89**		ug/L			333043	319853	4	Standard
	Kr	**83**		ug/L			44	45	19	Standard
⌈>	**In-1**	**115**		ug/L			10197	10695	2	KED
⌈	**Mo**	**98**	**0.131**	ug/L	0.017	12	9	217	12	KED
⌈	**Cd**	**111**	**0.827**	ug/L	0.070	8	3	275	9	KED
⌊	**Cd**	**114**	**0.909**	ug/L	0.049	5	4	770	5	KED
⌈>	**In**	**115**		ug/L			441442	416852	3	Standard
⌈	**Ag**	**107**	**0.002**	ug/L	0.000	9	35	59	0	Standard
⌈	**Sb**	**121**	**0.054**	ug/L	0.006	11	277	1011	5	Standard
⌊	**Sb**	**123**	**0.054**	ug/L	0.003	6	218	783	2	Standard
⌈	**Ba**	**135**	**4.015**	ug/L	0.097	2	56	17880	5	Standard
⌊	**Ba**	**137**	**4.231**	ug/L	0.037	0	90	32951	4	Standard
⌈>	**Tb**	**159**		ug/L			829126	854435	3	Standard
⌈	**Tl**	**205**	**-0.001**	ug/L	0.000	23	103	77	12	Standard
⌊	**Pb**	**208**	**0.084**	ug/L	0.003	3	332	4405	3	Standard

23D0346

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~23C0346~~-01

Sample Dil Factor: 20

Comments:

Sample Date/Time: Wednesday, April 26, 2023 00:52:17

MB 4/25/23

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			451288	467237	3	Standard
	Be	**9**	**-0.001**	ug/L	0.001	73	8	4	65	Standard
	C	**13**		ug/L			30171	45301	1	Standard
	Cl	**37**		ug/L			1636983	1349962	0	Standard
>	**Sc**	**45**		ug/L			558757	570745	3	Standard
	V	**51**	**0.128**	ug/L	0.141	109	6588	9839	32	Standard
	V-1	**51**	**9.486**	ug/L	0.157	1	458	237434	2	Standard
	Cr	**52**	**0.717**	ug/L	0.032	4	19428	34513	1	Standard
	Cr	**53**	**32.570**	ug/L	0.189	0	234	76683	3	Standard
	Mn	**55**	**0.480**	ug/L	0.004	0	747	15063	2	Standard
>	**Ge**	**72**		ug/L			47927	42169	3	KED
	Co	**59**	**0.003**	ug/L	0.001	35	7	23	23	KED
	Ni	**60**	**-0.274**	ug/L	0.013	4	554	76	21	KED
	Ni	**62**	**-0.198**	ug/L	0.013	6	85	26	8	KED
	Cu	**63**	**0.125**	ug/L	0.004	3	97	615	5	KED
	Cu	**65**	**0.119**	ug/L	0.013	10	53	293	9	KED
	Zn	**66**	**0.233**	ug/L	0.018	7	102	219	3	KED
	Zn	**67**	**0.340**	ug/L	0.090	26	22	50	17	KED
	As	**75**	**0.129**	ug/L	0.016	12	5	43	7	KED
	Se	**78**	**0.325**	ug/L	0.078	23	19	26	6	KED
	Y	**89**		ug/L			333043	304768	4	Standard
	Kr	**83**		ug/L			44	266	9	Standard
>	**In-1**	**115**		ug/L			10197	8512	0	KED
	Mo	**98**	**0.774**	ug/L	0.048	6	9	983	5	KED
	Cd	**111**	**0.016**	ug/L	0.002	14	3	7	7	KED
	Cd	**114**	**0.005**	ug/L	0.007	136	4	6	66	KED
>	**In**	**115**		ug/L			441442	362289	6	Standard
	Ag	**107**	**0.000**	ug/L	0.000	84	35	34	11	Standard
	Sb	**121**	**-0.003**	ug/L	0.002	55	277	192	10	Standard
	Sb	**123**	**-0.004**	ug/L	0.001	33	218	139	4	Standard
	Ba	**135**	**0.742**	ug/L	0.056	7	56	2900	1	Standard
	Ba	**137**	**0.775**	ug/L	0.044	5	90	5294	1	Standard
>	**Tb**	**159**		ug/L			829126	745137	3	Standard
	Tl	**205**	**0.003**	ug/L	0.001	23	103	194	9	Standard
	Pb	**208**	**0.031**	ug/L	0.002	7	332	1601	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0714-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Wednesday, April 26, 2023 00:58:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			451288	462616	5	Standard
[	**Be**	**9**	**-0.001**	ug/L	0.001	73	8	3	86	Standard
	C	**13**		ug/L			30171	44419	3	Standard
	Cl	**37**		ug/L			1636983	1303589	4	Standard
[>	**Sc**	**45**		ug/L			558757	597702	1	Standard
[	**V**	**51**	**-0.066**	ug/L	0.170	257	6588	5294	82	Standard
[	**V-1**	**51**	**9.820**	ug/L	0.136	1	458	257478	2	Standard
[	**Cr**	**52**	**0.631**	ug/L	0.020	3	19428	34303	0	Standard
[	**Cr**	**53**	**34.279**	ug/L	0.946	2	234	84523	3	Standard
[	**Mn**	**55**	**14.528**	ug/L	0.131	0	747	453843	1	Standard
[>	**Ge**	**72**		ug/L			47927	40881	0	KED
[	**Co**	**59**	**0.025**	ug/L	0.003	12	7	136	12	KED
[	**Ni**	**60**	**-0.107**	ug/L	0.009	8	554	317	4	KED
[	**Ni**	**62**	**0.002**	ug/L	0.077	5027	85	73	25	KED
[	**Cu**	**63**	**0.139**	ug/L	0.010	7	97	652	6	KED
[	**Cu**	**65**	**0.145**	ug/L	0.018	12	53	337	10	KED
[	**Zn**	**66**	**3.140**	ug/L	0.203	6	102	1777	6	KED
[	**Zn**	**67**	**2.967**	ug/L	0.194	6	22	278	6	KED
[	**As**	**75**	**0.081**	ug/L	0.024	29	5	27	23	KED
[	**Se**	**78**	**0.297**	ug/L	0.115	38	19	24	11	KED
	Y	**89**		ug/L			333043	316710	2	Standard
	Kr	**83**		ug/L			44	220	5	Standard
[>	**In-1**	**115**		ug/L			10197	9019	0	KED
[	**Mo**	**98**	**0.129**	ug/L	0.002	1	9	180	1	KED
[	**Cd**	**111**	**0.015**	ug/L	0.012	80	3	7	45	KED
[	**Cd**	**114**	**0.006**	ug/L	0.008	139	4	7	74	KED
[>	**In**	**115**		ug/L			441442	373809	1	Standard
[	**Ag**	**107**	**0.001**	ug/L	0.000	9	35	45	2	Standard
[	**Sb**	**121**	**0.035**	ug/L	0.004	12	277	674	7	Standard
[	**Sb**	**123**	**0.031**	ug/L	0.004	11	218	486	8	Standard
[	**Ba**	**135**	**7.085**	ug/L	0.099	1	56	28243	1	Standard
[	**Ba**	**137**	**7.263**	ug/L	0.339	4	90	50674	5	Standard
[>	**Tb**	**159**		ug/L			829126	758678	3	Standard
[	**Tl**	**205**	**0.003**	ug/L	0.000	17	103	179	4	Standard
[	**Pb**	**208**	**0.069**	ug/L	0.002	2	332	3247	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 01:05:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			451288	465538	5	Standard
	Be	**9**	**-0.001**	ug/L	0.001	78	8	4	65	Standard
	C	**13**		ug/L			30171	28989	6	Standard
	Cl	**37**		ug/L			1636983	1766951	2	Standard
>	**Sc**	**45**		ug/L			558757	594747	6	Standard
	V	**51**	**0.063**	ug/L	0.008	12	6588	8634	4	Standard
	V-1	**51**	**0.211**	ug/L	0.009	4	458	5976	2	Standard
	Cr	**52**	**0.222**	ug/L	0.034	15	19428	25386	3	Standard
	Cr	**53**	**0.725**	ug/L	0.041	5	234	2018	1	Standard
	Mn	**55**	**0.004**	ug/L	0.002	38	747	931	2	Standard
>	**Ge**	**72**		ug/L			47927	49720	4	KED
	Co	**59**	**-0.000**	ug/L	0.000	10	7	5	0	KED
	Ni	**60**	**-0.316**	ug/L	0.005	1	554	15	48	KED
	Ni	**62**	**-0.272**	ug/L	0.011	3	85	9	34	KED
	Cu	**63**	**0.020**	ug/L	0.005	26	97	199	12	KED
	Cu	**65**	**0.018**	ug/L	0.006	35	53	100	19	KED
	Zn	**66**	**0.018**	ug/L	0.040	220	102	117	20	KED
	Zn	**67**	**0.020**	ug/L	0.067	332	22	26	30	KED
	As	**75**	**-0.004**	ug/L	0.005	110	5	4	33	KED
	Se	**78**	**-0.009**	ug/L	0.103	1119	19	20	14	KED
	Y	**89**		ug/L			333043	340628	1	Standard
	Kr	**83**		ug/L			44	45	27	Standard
>	**In-1**	**115**		ug/L			10197	10784	2	KED
	Mo	**98**	**-0.001**	ug/L	0.004	447	9	8	88	KED
	Cd	**111**	**0.002**	ug/L	0.006	258	3	4	40	KED
	Cd	**114**	**0.002**	ug/L	0.006	311	4	5	81	KED
>	**In**	**115**		ug/L			441442	436316	4	Standard
	Ag	**107**	**-0.000**	ug/L	0.000	78	35	28	20	Standard
	Sb	**121**	**-0.013**	ug/L	0.001	6	277	81	14	Standard
	Sb	**123**	**-0.014**	ug/L	0.001	7	218	54	24	Standard
	Ba	**135**	**0.021**	ug/L	0.004	17	56	154	12	Standard
	Ba	**137**	**0.024**	ug/L	0.003	12	90	283	11	Standard
>	**Tb**	**159**		ug/L			829126	809318	5	Standard
	Tl	**205**	**-0.000**	ug/L	0.000	156	103	90	16	Standard
	Pb	**208**	**0.002**	ug/L	0.000	14	332	409	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 01:10:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			451288	484446	1	Standard
	Be	**9**	**-0.001**	ug/L	0.000	37	8	3	50	Standard
	C	**13**		ug/L			30171	30099	3	Standard
	Cl	**37**		ug/L			1636983	1751203	1	Standard
>	**Sc**	**45**		ug/L			558757	597912	1	Standard
	V	**51**	**0.054**	ug/L	0.007	13	6588	8446	2	Standard
	V-1	**51**	**0.119**	ug/L	0.003	2	458	3604	2	Standard
	Cr	**52**	**0.186**	ug/L	0.022	12	19428	24781	2	Standard
	Cr	**53**	**0.407**	ug/L	0.007	1	234	1251	1	Standard
	Mn	**55**	**0.002**	ug/L	0.001	48	747	856	2	Standard
>	**Ge**	**72**		ug/L			47927	49101	3	KED
	Co	**59**	**-0.001**	ug/L	0.000	20	7	2	43	KED
	Ni	**60**	**-0.313**	ug/L	0.004	1	554	20	36	KED
	Ni	**62**	**-0.262**	ug/L	0.021	8	85	12	50	KED
	Cu	**63**	**0.014**	ug/L	0.004	31	97	169	13	KED
	Cu	**65**	**0.020**	ug/L	0.002	11	53	103	6	KED
	Zn	**66**	**0.011**	ug/L	0.025	238	102	111	16	KED
	Zn	**67**	**-0.011**	ug/L	0.043	387	22	22	19	KED
	As	**75**	**-0.003**	ug/L	0.004	137	5	4	36	KED
	Se	**78**	**0.028**	ug/L	0.080	289	19	21	9	KED
	Y	**89**		ug/L			333043	344541	2	Standard
	Kr	**83**		ug/L			44	53	7	Standard
>	**In-1**	**115**		ug/L			10197	10781	1	KED
	Mo	**98**	**-0.003**	ug/L	0.002	97	9	5	69	KED
	Cd	**111**	**0.009**	ug/L	0.007	83	3	6	34	KED
	Cd	**114**	**-0.002**	ug/L	0.005	251	4	2	141	KED
>	**In**	**115**		ug/L			441442	438006	0	Standard
	Ag	**107**	**-0.001**	ug/L	0.000	20	35	20	14	Standard
	Sb	**121**	**-0.014**	ug/L	0.001	4	277	74	11	Standard
	Sb	**123**	**-0.014**	ug/L	0.001	4	218	57	12	Standard
	Ba	**135**	**0.022**	ug/L	0.004	17	56	157	11	Standard
	Ba	**137**	**0.025**	ug/L	0.004	15	90	297	10	Standard
>	**Tb**	**159**		ug/L			829126	829203	1	Standard
	Tl	**205**	**-0.001**	ug/L	0.000	5	103	82	2	Standard
	Pb	**208**	**0.002**	ug/L	0.000	15	332	410	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 01:15:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			451288	475793	2	Standard
	Be	**9**	**49.935**	ug/L	2.769	5	8	194853	7	Standard
	C	**13**		ug/L			30171	29179	3	Standard
	Cl	**37**		ug/L			1636983	1658028	1	Standard
>	**Sc**	**45**		ug/L			558757	607424	2	Standard
	V	**51**	**49.218**	ug/L	1.355	2	6588	1311238	5	Standard
	V-1	**51**	**49.549**	ug/L	1.683	3	458	1318966	6	Standard
	Cr	**52**	**49.671**	ug/L	0.819	1	19428	1103750	3	Standard
	Cr	**53**	**50.792**	ug/L	1.649	3	234	127195	5	Standard
	Mn	**55**	**49.221**	ug/L	0.410	0	747	1560629	2	Standard
>	**Ge**	**72**		ug/L			47927	48446	3	KED
	Co	**59**	**49.684**	ug/L	0.627	1	7	300334	4	KED
	Ni	**60**	**50.933**	ug/L	0.915	1	554	88287	3	KED
	Ni	**62**	**50.216**	ug/L	0.344	0	85	14259	3	KED
	Cu	**63**	**49.723**	ug/L	1.038	2	97	242021	2	KED
	Cu	**65**	**52.293**	ug/L	1.626	3	53	124863	3	KED
	Zn	**66**	**50.518**	ug/L	0.759	1	102	32337	3	KED
	Zn	**67**	**50.329**	ug/L	1.234	2	22	5230	2	KED
	As	**75**	**49.548**	ug/L	0.433	0	5	16885	2	KED
	Se	**78**	**49.760**	ug/L	1.304	2	19	1594	0	KED
	Y	**89**		ug/L			333043	354193	1	Standard
	Kr	**83**		ug/L			44	55	13	Standard
>	**In-1**	**115**		ug/L			10197	9873	2	KED
	Mo	**98**	**51.374**	ug/L	1.064	2	9	75144	1	KED
	Cd	**111**	**51.305**	ug/L	0.625	1	3	15574	2	KED
	Cd	**114**	**50.936**	ug/L	0.885	1	4	39621	2	KED
>	**In**	**115**		ug/L			441442	449988	4	Standard
	Ag	**107**	**49.745**	ug/L	1.145	2	35	914067	5	Standard
	Sb	**121**	**49.529**	ug/L	1.065	2	277	747360	3	Standard
	Sb	**123**	**50.560**	ug/L	1.527	3	218	582787	3	Standard
	Ba	**135**	**52.220**	ug/L	2.687	5	56	249918	2	Standard
	Ba	**137**	**52.770**	ug/L	2.145	4	90	442096	2	Standard
>	**Tb**	**159**		ug/L			829126	868640	3	Standard
	Tl	**205**	**49.364**	ug/L	0.654	1	103	1824555	3	Standard
	Pb	**208**	**49.342**	ug/L	0.436	0	332	2425578	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 01:23:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			451288	476902	0	Standard
⌊	**Be**	**9**	**-0.000**	ug/L	0.000	168	8	7	25	Standard
	C	**13**		ug/L			30171	29142	1	Standard
	Cl	**37**		ug/L			1636983	1722435	2	Standard
⌈>	**Sc**	**45**		ug/L			558757	595467	2	Standard
⎢	**V**	**51**	**0.008**	ug/L	0.009	115	6588	7224	1	Standard
⎢	**V-1**	**51**	**0.050**	ug/L	0.002	3	458	1788	0	Standard
⎢	**Cr**	**52**	**0.025**	ug/L	0.031	128	19428	21218	1	Standard
⎢	**Cr**	**53**	**0.167**	ug/L	0.005	3	234	659	2	Standard
⌊	**Mn**	**55**	**0.003**	ug/L	0.002	70	747	875	4	Standard
⌈>	**Ge**	**72**		ug/L			47927	48086	0	KED
⎢	**Co**	**59**	**0.005**	ug/L	0.009	185	7	35	145	KED
⎢	**Ni**	**60**	**0.022**	ug/L	0.047	215	554	593	12	KED
⎢	**Ni**	**62**	**0.008**	ug/L	0.032	393	85	87	9	KED
⎢	**Cu**	**63**	**0.010**	ug/L	0.013	123	97	147	42	KED
⎢	**Cu**	**65**	**0.004**	ug/L	0.004	86	53	64	14	KED
⎢	**Zn**	**66**	**0.024**	ug/L	0.006	26	102	118	4	KED
⎢	**Zn**	**67**	**0.012**	ug/L	0.130	1110	22	24	55	KED
⎢	**As**	**75**	**0.006**	ug/L	0.008	151	5	7	38	KED
⌊	**Se**	**78**	**0.088**	ug/L	0.068	77	19	22	10	KED
	Y	**89**		ug/L			333043	342694	2	Standard
	Kr	**83**		ug/L			44	37	10	Standard
⌈>	**In-1**	**115**		ug/L			10197	10862	2	KED
⎢	**Mo**	**98**	**0.007**	ug/L	0.005	78	9	20	41	KED
⎢	**Cd**	**111**	**0.007**	ug/L	0.004	52	3	6	17	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.005	94	4	8	47	KED
⌈>	**In**	**115**		ug/L			441442	457938	2	Standard
⎢	**Ag**	**107**	**0.001**	ug/L	0.001	86	35	64	34	Standard
⎢	**Sb**	**121**	**0.032**	ug/L	0.003	8	277	781	6	Standard
⎢	**Sb**	**123**	**0.038**	ug/L	0.003	6	218	678	6	Standard
⎢	**Ba**	**135**	**0.000**	ug/L	0.002	356	56	60	13	Standard
⌊	**Ba**	**137**	**0.001**	ug/L	0.001	230	90	98	11	Standard
⌈>	**Tb**	**159**		ug/L			829126	848607	2	Standard
⎢	**Tl**	**205**	**0.003**	ug/L	0.000	15	103	210	8	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	268	332	346	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0168-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, April 26, 2023 01:28:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			451288	489026	5	Standard
	Be	9	-0.001	ug/L	0.001	209	8	6	91	Standard
	C	13		ug/L			30171	45561	1	Standard
	Cl	37		ug/L			1636983	1714145	2	Standard
>	Sc	45		ug/L			558757	618316	2	Standard
	V	51	0.027	ug/L	0.003	11	6588	8018	1	Standard
	V-1	51	0.039	ug/L	0.002	4	458	1573	2	Standard
	Cr	52	0.093	ug/L	0.013	14	19428	23566	1	Standard
	Cr	53	0.135	ug/L	0.011	8	234	601	3	Standard
	Mn	55	0.003	ug/L	0.000	18	747	913	4	Standard
>	Ge	72		ug/L			47927	49438	2	KED
	Co	59	-0.000	ug/L	0.001	581	7	6	68	KED
	Ni	60	-0.286	ug/L	0.009	3	554	69	22	KED
	Ni	62	-0.245	ug/L	0.020	7	85	17	33	KED
	Cu	63	0.034	ug/L	0.004	12	97	268	5	KED
	Cu	65	0.041	ug/L	0.009	22	53	154	14	KED
	Zn	66	0.079	ug/L	0.010	13	102	156	4	KED
	Zn	67	0.012	ug/L	0.025	211	22	24	7	KED
	As	75	-0.005	ug/L	0.002	40	5	3	18	KED
	Se	78	0.007	ug/L	0.119	1666	19	20	18	KED
	Y	89		ug/L			333043	362546	2	Standard
	Kr	83		ug/L			44	48	44	Standard
>	In-1	115		ug/L			10197	10920	1	KED
	Mo	98	0.003	ug/L	0.004	128	9	15	45	KED
	Cd	111	0.003	ug/L	0.010	338	3	5	65	KED
	Cd	114	0.003	ug/L	0.006	162	4	7	66	KED
>	In	115		ug/L			441442	458157	3	Standard
	Ag	107	-0.000	ug/L	0.000	65	35	30	10	Standard
	Sb	121	0.002	ug/L	0.003	141	277	314	9	Standard
	Sb	123	0.002	ug/L	0.001	63	218	253	7	Standard
	Ba	135	0.029	ug/L	0.002	5	56	200	6	Standard
	Ba	137	0.028	ug/L	0.003	12	90	328	8	Standard
>	Tb	159		ug/L			829126	868636	0	Standard
	Tl	205	0.000	ug/L	0.000	132	103	117	10	Standard
	Pb	208	0.028	ug/L	0.002	8	332	1718	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0168-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, April 26, 2023 01:33:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			451288	467567	6	Standard
	Be	9	24.406	ug/L	0.976	3	8	93414	4	Standard
	C	13		ug/L			30171	43384	1	Standard
	Cl	37		ug/L			1636983	1696639	1	Standard
>	Sc	45		ug/L			558757	592276	2	Standard
	V	51	25.189	ug/L	0.240	0	6588	657320	1	Standard
	V-1	51	25.370	ug/L	0.154	0	458	658314	2	Standard
	Cr	52	25.730	ug/L	0.407	1	19428	567159	1	Standard
	Cr	53	26.338	ug/L	0.304	1	234	64406	3	Standard
	Mn	55	25.869	ug/L	0.470	1	747	800043	2	Standard
>	Ge	72		ug/L			47927	49478	2	KED
	Co	59	26.053	ug/L	0.339	1	7	160792	1	KED
	Ni	60	26.920	ug/L	0.700	2	554	47919	2	KED
	Ni	62	26.701	ug/L	0.859	3	85	7784	3	KED
	Cu	63	27.505	ug/L	0.064	0	97	136808	2	KED
	Cu	65	28.239	ug/L	0.451	1	53	68900	2	KED
	Zn	66	82.244	ug/L	0.470	0	102	53699	2	KED
	Zn	67	79.083	ug/L	2.931	3	22	8383	4	KED
	As	75	25.120	ug/L	0.418	1	5	8744	0	KED
	Se	78	76.815	ug/L	0.325	0	19	2504	2	KED
	Y	89		ug/L			333043	350044	1	Standard
	Kr	83		ug/L			44	52	23	Standard
>	In-1	115		ug/L			10197	8762	11	KED
	Mo	98	0.092	ug/L	0.026	28	9	124	14	KED
	Cd	111	29.615	ug/L	3.198	10	3	7919	5	KED
	Cd	114	29.634	ug/L	3.950	13	4	20276	7	KED
>	In	115		ug/L			441442	452902	4	Standard
	Ag	107	25.626	ug/L	0.478	1	35	473920	4	Standard
	Sb	121	0.065	ug/L	0.004	6	277	1265	1	Standard
	Sb	123	0.062	ug/L	0.005	8	218	940	4	Standard
	Ba	135	26.994	ug/L	0.476	1	56	130186	3	Standard
	Ba	137	27.900	ug/L	1.358	4	90	235230	2	Standard
>	Tb	159		ug/L			829126	845241	3	Standard
	Tl	205	26.048	ug/L	0.543	2	103	936548	2	Standard
	Pb	208	26.318	ug/L	0.559	2	332	1258509	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0124-03
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 01:38:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			451288	506085	0	Standard
	Be	**9**	**0.002**	ug/L	0.000	13	8	16	6	Standard
	C	**13**		ug/L			30171	59635	2	Standard
	Cl	**37**		ug/L			1636983	1663274	1	Standard
>	**Sc**	**45**		ug/L			558757	649389	0	Standard
	V	**51**	**0.723**	ug/L	0.025	3	6588	28117	2	Standard
	V-1	**51**	**0.751**	ug/L	0.006	0	458	21893	0	Standard
	Cr	**52**	**3.137**	ug/L	0.076	2	19428	95671	1	Standard
	Cr	**53**	**3.201**	ug/L	0.035	1	234	8820	1	Standard
	Mn	**55**	**2.581**	ug/L	0.038	1	747	88291	1	Standard
>	**Ge**	**72**		ug/L			47927	46157	1	KED
	Co	**59**	**0.094**	ug/L	0.007	7	7	548	8	KED
	Ni	**60**	**0.641**	ug/L	0.066	10	554	1587	8	KED
	Ni	**62**	**0.725**	ug/L	0.065	9	85	276	6	KED
	Cu	**63**	**27.126**	ug/L	0.302	1	97	125880	2	KED
	Cu	**65**	**27.464**	ug/L	0.285	1	53	62518	2	KED
	Zn	**66**	**26.308**	ug/L	0.640	2	102	16093	3	KED
	Zn	**67**	**26.822**	ug/L	0.786	2	22	2667	3	KED
	As	**75**	**0.901**	ug/L	0.035	3	5	297	3	KED
	Se	**78**	**0.300**	ug/L	0.169	56	19	28	17	KED
	Y	**89**		ug/L			333043	360555	0	Standard
	Kr	**83**		ug/L			44	44	38	Standard
>	**In-1**	**115**		ug/L			10197	10123	0	KED
	Mo	**98**	**0.490**	ug/L	0.024	4	9	744	5	KED
	Cd	**111**	**0.023**	ug/L	0.021	90	3	10	58	KED
	Cd	**114**	**0.012**	ug/L	0.005	42	4	13	30	KED
>	**In**	**115**		ug/L			441442	454796	1	Standard
	Ag	**107**	**0.022**	ug/L	0.002	8	35	443	8	Standard
	Sb	**121**	**0.831**	ug/L	0.034	4	277	12954	2	Standard
	Sb	**123**	**0.819**	ug/L	0.013	1	218	9768	1	Standard
	Ba	**135**	**22.920**	ug/L	0.827	3	56	111018	2	Standard
	Ba	**137**	**23.560**	ug/L	0.685	2	90	199732	3	Standard
>	**Tb**	**159**		ug/L			829126	864777	1	Standard
	Tl	**205**	**0.003**	ug/L	0.001	19	103	215	8	Standard
	Pb	**208**	**0.142**	ug/L	0.003	1	332	7283	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0673-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, April 26, 2023 01:43:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			451288	502588	2	Standard
	Be	9	0.150	ug/L	0.006	4	8	627	3	Standard
	C	13		ug/L			30171	66191	2	Standard
	Cl	37		ug/L			1636983	1619083	2	Standard
>	Sc	45		ug/L			558757	703465	2	Standard
	V	51	27.410	ug/L	0.475	1	6588	848722	1	Standard
	V-1	51	27.517	ug/L	0.439	1	458	847833	1	Standard
	Cr	52	22.187	ug/L	0.558	2	19428	584181	1	Standard
	Cr	53	22.623	ug/L	0.596	2	234	65728	2	Standard
	Mn	55	279.334	ug/L	7.023	2	747	10249166	1	Standard
>	Ge	72		ug/L			47927	46934	2	KED
	Co	59	7.160	ug/L	0.119	1	7	41917	1	KED
	Ni	60	20.904	ug/L	0.397	1	554	35429	3	KED
	Ni	62	20.861	ug/L	0.542	2	85	5785	2	KED
	Cu	63	41.038	ug/L	1.478	3	97	193557	4	KED
	Cu	65	43.204	ug/L	0.443	1	53	99980	3	KED
	Zn	66	166.981	ug/L	3.822	2	102	103340	4	KED
	Zn	67	163.634	ug/L	0.355	0	22	16431	2	KED
	As	75	2.978	ug/L	0.062	2	5	988	3	KED
	Se	78	0.743	ug/L	0.180	24	19	42	10	KED
	Y	89		ug/L			333043	581486	4	Standard
	Kr	83		ug/L			44	86	3	Standard
>	In-1	115		ug/L			10197	10331	4	KED
	Mo	98	1.220	ug/L	0.070	5	9	1875	3	KED
	Cd	111	0.196	ug/L	0.008	4	3	66	4	KED
	Cd	114	0.196	ug/L	0.023	11	4	164	15	KED
>	In	115		ug/L			441442	451180	1	Standard
	Ag	107	0.073	ug/L	0.006	8	35	1381	9	Standard
	Sb	121	0.151	ug/L	0.007	4	277	2571	3	Standard
	Sb	123	0.157	ug/L	0.010	6	218	2032	4	Standard
	Ba	135	85.325	ug/L	2.002	2	56	410069	3	Standard
	Ba	137	87.728	ug/L	1.611	1	90	737595	2	Standard
>	Tb	159		ug/L			829126	902833	1	Standard
	Tl	205	0.030	ug/L	0.001	2	103	1246	3	Standard
	Pb	208	15.394	ug/L	0.113	0	332	786777	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0673-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, April 26, 2023 01:48:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			451288	467162	4	Standard
	Be	9	0.191	ug/L	0.006	3	8	738	5	Standard
	C	13		ug/L			30171	57904	2	Standard
	Cl	37		ug/L			1636983	1594825	2	Standard
>	Sc	45		ug/L			558757	685242	4	Standard
	V	51	28.718	ug/L	0.585	2	6588	865839	4	Standard
	V-1	51	28.756	ug/L	0.512	1	458	863117	4	Standard
	Cr	52	20.623	ug/L	0.585	2	19428	530418	2	Standard
	Cr	53	20.864	ug/L	0.207	0	234	59067	3	Standard
	Mn	55	291.543	ug/L	3.697	1	747	10422533	4	Standard
>	Ge	72		ug/L			47927	49060	2	KED
	Co	59	5.607	ug/L	0.055	0	7	34325	3	KED
	Ni	60	20.947	ug/L	0.271	1	554	37107	3	KED
	Ni	62	20.681	ug/L	0.721	3	85	6000	5	KED
	Cu	63	26.172	ug/L	0.476	1	97	129057	2	KED
	Cu	65	26.704	ug/L	0.203	0	53	64608	3	KED
	Zn	66	96.757	ug/L	3.213	3	102	62627	4	KED
	Zn	67	96.773	ug/L	1.321	1	22	10168	3	KED
	As	75	2.760	ug/L	0.023	0	5	957	2	KED
	Se	78	0.451	ug/L	0.142	31	19	34	12	KED
	Y	89		ug/L			333043	517298	2	Standard
	Kr	83		ug/L			44	81	14	Standard
>	In-1	115		ug/L			10197	9680	0	KED
	Mo	98	0.679	ug/L	0.020	2	9	982	3	KED
	Cd	111	0.134	ug/L	0.027	19	3	43	18	KED
	Cd	114	0.117	ug/L	0.013	10	4	93	9	KED
>	In	115		ug/L			441442	429022	5	Standard
	Ag	107	0.069	ug/L	0.004	5	35	1242	1	Standard
	Sb	121	0.075	ug/L	0.004	4	277	1348	2	Standard
	Sb	123	0.074	ug/L	0.002	3	218	1029	4	Standard
	Ba	135	88.559	ug/L	6.412	7	56	403473	1	Standard
	Ba	137	90.321	ug/L	3.048	3	90	721277	3	Standard
>	Tb	159		ug/L			829126	864494	5	Standard
	Tl	205	0.039	ug/L	0.001	2	103	1560	6	Standard
	Pb	208	15.342	ug/L	0.357	2	332	750228	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0027-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, April 26, 2023 01:53:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			451288	470666	2	Standard
⌊	**Be**	**9**	**0.122**	ug/L	0.017	13	8	476	11	Standard
	C	**13**		ug/L			30171	49174	2	Standard
	Cl	**37**		ug/L			1636983	1624109	1	Standard
⌈>	**Sc**	**45**		ug/L			558757	656374	2	Standard
|	**V**	**51**	**27.921**	ug/L	0.677	2	6588	806498	0	Standard
|	**V-1**	**51**	**27.842**	ug/L	0.659	2	458	800351	0	Standard
|	**Cr**	**52**	**10.357**	ug/L	0.284	2	19428	266620	1	Standard
|	**Cr**	**53**	**10.335**	ug/L	0.241	2	234	28162	0	Standard
⌊	**Mn**	**55**	**117.860**	ug/L	2.261	1	747	4035930	1	Standard
⌈>	**Ge**	**72**		ug/L			47927	49717	2	KED
|	**Co**	**59**	**3.463**	ug/L	0.100	2	7	21481	2	KED
|	**Ni**	**60**	**7.131**	ug/L	0.161	2	554	13178	0	KED
|	**Ni**	**62**	**6.874**	ug/L	0.244	3	85	2079	4	KED
|	**Cu**	**63**	**9.970**	ug/L	0.128	1	97	49888	1	KED
|	**Cu**	**65**	**10.427**	ug/L	0.148	1	53	25600	3	KED
|	**Zn**	**66**	**27.189**	ug/L	0.672	2	102	17902	0	KED
|	**Zn**	**67**	**27.682**	ug/L	1.556	5	22	2962	4	KED
|	**As**	**75**	**2.407**	ug/L	0.066	2	5	847	3	KED
⌊	**Se**	**78**	**0.503**	ug/L	0.100	19	19	37	8	KED
	Y	**89**		ug/L			333043	543858	1	Standard
	Kr	**83**		ug/L			44	56	16	Standard
⌈>	**In-1**	**115**		ug/L			10197	10647	0	KED
|	**Mo**	**98**	**0.246**	ug/L	0.011	4	9	397	4	KED
|	**Cd**	**111**	**0.045**	ug/L	0.013	29	3	18	24	KED
⌊	**Cd**	**114**	**0.023**	ug/L	0.011	47	4	23	39	KED
⌈>	**In**	**115**		ug/L			441442	440256	1	Standard
|	**Ag**	**107**	**0.038**	ug/L	0.002	6	35	725	4	Standard
|	**Sb**	**121**	**0.013**	ug/L	0.001	10	277	467	2	Standard
|	**Sb**	**123**	**0.013**	ug/L	0.001	8	218	369	2	Standard
|	**Ba**	**135**	**16.264**	ug/L	0.360	2	56	76279	1	Standard
⌊	**Ba**	**137**	**16.725**	ug/L	0.580	3	90	137231	1	Standard
⌈>	**Tb**	**159**		ug/L			829126	864451	0	Standard
|	**Tl**	**205**	**0.024**	ug/L	0.001	2	103	977	1	Standard
⌊	**Pb**	**208**	**4.662**	ug/L	0.112	2	332	228341	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0027-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, April 26, 2023 01:58:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			451288	504410	2	Standard
[	**Be**	**9**	**0.118**	ug/L	0.002	2	8	495	3	Standard
	C	**13**		ug/L			30171	46360	1	Standard
	Cl	**37**		ug/L			1636983	1629813	2	Standard
[>	**Sc**	**45**		ug/L			558757	691613	1	Standard
[	**V**	**51**	**25.207**	ug/L	0.501	1	6588	768235	2	Standard
[	**V-1**	**51**	**25.204**	ug/L	0.553	2	458	763745	2	Standard
[	**Cr**	**52**	**8.202**	ug/L	0.119	1	19428	227550	1	Standard
[	**Cr**	**53**	**8.436**	ug/L	0.228	2	234	24277	1	Standard
[	**Mn**	**55**	**113.852**	ug/L	1.377	1	747	4108565	1	Standard
[>	**Ge**	**72**		ug/L			47927	48974	4	KED
[	**Co**	**59**	**3.730**	ug/L	0.081	2	7	22787	3	KED
[	**Ni**	**60**	**7.566**	ug/L	0.226	2	554	13736	3	KED
[	**Ni**	**62**	**7.420**	ug/L	0.280	3	85	2202	2	KED
[	**Cu**	**63**	**11.239**	ug/L	0.010	0	97	55393	4	KED
[	**Cu**	**65**	**11.367**	ug/L	0.342	3	53	27475	4	KED
[	**Zn**	**66**	**25.598**	ug/L	1.007	3	102	16598	2	KED
[	**Zn**	**67**	**24.419**	ug/L	1.146	4	22	2579	6	KED
[	**As**	**75**	**2.077**	ug/L	0.015	0	5	721	4	KED
[	**Se**	**78**	**0.644**	ug/L	0.096	14	19	40	3	KED
	Y	**89**		ug/L			333043	540634	1	Standard
	Kr	**83**		ug/L			44	50	35	Standard
[>	**In-1**	**115**		ug/L			10197	9790	3	KED
[	**Mo**	**98**	**0.219**	ug/L	0.021	9	9	326	6	KED
[	**Cd**	**111**	**0.058**	ug/L	0.003	5	3	21	6	KED
[	**Cd**	**114**	**0.045**	ug/L	0.013	29	4	38	26	KED
[>	**In**	**115**		ug/L			441442	465250	0	Standard
[	**Ag**	**107**	**0.031**	ug/L	0.001	2	35	619	2	Standard
[	**Sb**	**121**	**0.035**	ug/L	0.004	10	277	843	7	Standard
[	**Sb**	**123**	**0.034**	ug/L	0.002	5	218	635	3	Standard
[	**Ba**	**135**	**24.832**	ug/L	0.359	1	56	123077	1	Standard
[	**Ba**	**137**	**25.526**	ug/L	0.292	1	90	221364	0	Standard
[>	**Tb**	**159**		ug/L			829126	893939	1	Standard
[	**Tl**	**205**	**0.025**	ug/L	0.001	4	103	1064	5	Standard
[	**Pb**	**208**	**3.601**	ug/L	0.075	2	332	182441	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0168-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, April 26, 2023 02:03:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			451288	473034	4	Standard
	Be	9	0.124	ug/L	0.003	2	8	490	6	Standard
	C	13		ug/L			30171	49307	3	Standard
	Cl	37		ug/L			1636983	1629855	1	Standard
>	Sc	45		ug/L			558757	665541	4	Standard
	V	51	26.287	ug/L	0.311	1	6588	770411	4	Standard
	V-1	51	26.256	ug/L	0.275	1	458	765383	4	Standard
	Cr	52	8.669	ug/L	0.100	1	19428	230063	3	Standard
	Cr	53	8.812	ug/L	0.218	2	234	24389	4	Standard
	Mn	55	122.679	ug/L	1.281	1	747	4259777	4	Standard
>	Ge	72		ug/L			47927	47269	1	KED
	Co	59	3.735	ug/L	0.025	0	7	22034	2	KED
	Ni	60	7.614	ug/L	0.054	0	554	13344	1	KED
	Ni	62	7.370	ug/L	0.220	2	85	2113	3	KED
	Cu	63	11.155	ug/L	0.403	3	97	53053	3	KED
	Cu	65	11.543	ug/L	0.160	1	53	26940	3	KED
	Zn	66	24.297	ug/L	0.206	0	102	15225	1	KED
	Zn	67	25.564	ug/L	0.944	3	22	2603	2	KED
	As	75	2.065	ug/L	0.055	2	5	691	1	KED
	Se	78	0.534	ug/L	0.167	31	19	36	13	KED
	Y	89		ug/L			333043	522114	1	Standard
	Kr	83		ug/L			44	57	19	Standard
>	In-1	115		ug/L			10197	9987	2	KED
	Mo	98	0.221	ug/L	0.008	3	9	335	2	KED
	Cd	111	0.061	ug/L	0.003	5	3	22	6	KED
	Cd	114	0.042	ug/L	0.007	16	4	37	12	KED
>	In	115		ug/L			441442	438099	2	Standard
	Ag	107	0.030	ug/L	0.002	5	35	573	6	Standard
	Sb	121	0.034	ug/L	0.003	7	277	772	5	Standard
	Sb	123	0.040	ug/L	0.002	3	218	665	1	Standard
	Ba	135	38.331	ug/L	1.423	3	56	178922	5	Standard
	Ba	137	38.713	ug/L	0.794	2	90	316150	4	Standard
>	Tb	159		ug/L			829126	882928	4	Standard
	Tl	205	0.025	ug/L	0.001	5	103	1063	8	Standard
	Pb	208	3.833	ug/L	0.083	2	332	191753	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0168-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, April 26, 2023 02:08:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			451288	477910	2	Standard
	Be	9	24.894	ug/L	0.876	3	8	97507	4	Standard
	C	13		ug/L			30171	45706	3	Standard
	Cl	37		ug/L			1636983	1642066	1	Standard
>	Sc	45		ug/L			558757	666539	2	Standard
	V	51	50.355	ug/L	1.029	2	6588	1470615	1	Standard
	V-1	51	50.374	ug/L	0.820	1	458	1470150	1	Standard
	Cr	52	32.723	ug/L	0.783	2	19428	805332	1	Standard
	Cr	53	33.038	ug/L	0.770	2	234	90853	4	Standard
	Mn	55	145.540	ug/L	2.653	1	747	5062253	3	Standard
>	Ge	72		ug/L			47927	49093	2	KED
	Co	59	30.608	ug/L	0.424	1	7	187428	1	KED
	Ni	60	34.882	ug/L	0.918	2	554	61430	0	KED
	Ni	62	34.170	ug/L	0.753	2	85	9858	2	KED
	Cu	63	38.287	ug/L	0.451	1	97	188883	1	KED
	Cu	65	39.719	ug/L	0.411	1	53	96119	1	KED
	Zn	66	107.584	ug/L	1.147	1	102	69658	2	KED
	Zn	67	104.029	ug/L	1.167	1	22	10933	1	KED
	As	75	27.096	ug/L	0.144	0	5	9360	2	KED
	Se	78	79.076	ug/L	1.535	1	19	2556	1	KED
	Y	89		ug/L			333043	532853	2	Standard
	Kr	83		ug/L			44	63	6	Standard
>	In-1	115		ug/L			10197	9893	2	KED
	Mo	98	0.318	ug/L	0.021	6	9	475	8	KED
	Cd	111	27.048	ug/L	0.697	2	3	8228	2	KED
	Cd	114	26.487	ug/L	0.831	3	4	20662	5	KED
>	In	115		ug/L			441442	442543	1	Standard
	Ag	107	25.008	ug/L	0.842	3	35	451801	2	Standard
	Sb	121	0.055	ug/L	0.007	12	277	1092	8	Standard
	Sb	123	0.053	ug/L	0.004	8	218	821	6	Standard
	Ba	135	51.297	ug/L	0.723	1	56	241744	0	Standard
	Ba	137	51.631	ug/L	1.147	2	90	425731	0	Standard
>	Tb	159		ug/L			829126	862834	0	Standard
	Tl	205	25.495	ug/L	0.447	1	103	936186	1	Standard
	Pb	208	30.199	ug/L	0.392	1	332	1474770	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLA
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 02:13:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			451288	440916	4	Standard
⌊	**Be**	**9**	**-0.001**	ug/L	0.001	70	8	5	43	Standard
	C	**13**		ug/L			30171	28703	2	Standard
	Cl	**37**		ug/L			1636983	1674706	2	Standard
⌈>	**Sc**	**45**		ug/L			558757	583921	2	Standard
⌈	**V**	**51**	**-0.007**	ug/L	0.009	130	6588	6699	1	Standard
⌊	**V-1**	**51**	**0.008**	ug/L	0.001	7	458	683	0	Standard
⌈	**Cr**	**52**	**-0.015**	ug/L	0.028	191	19428	19983	1	Standard
⌊	**Cr**	**53**	**0.037**	ug/L	0.002	5	234	334	3	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.001	98	747	737	2	Standard
⌈>	**Ge**	**72**		ug/L			47927	47365	4	KED
⌈	**Co**	**59**	**-0.000**	ug/L	0.000	121	7	5	33	KED
⌊	**Ni**	**60**	**-0.312**	ug/L	0.007	2	554	22	47	KED
⌈	**Ni**	**62**	**-0.291**	ug/L	0.007	2	85	3	50	KED
⌊	**Cu**	**63**	**0.011**	ug/L	0.005	49	97	146	12	KED
⌈	**Cu**	**65**	**0.010**	ug/L	0.006	57	53	76	13	KED
⌊	**Zn**	**66**	**-0.002**	ug/L	0.017	1009	102	99	6	KED
⌈	**Zn**	**67**	**-0.044**	ug/L	0.088	200	22	18	51	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.006	197	5	4	43	KED
⌊	**Se**	**78**	**0.135**	ug/L	0.188	138	19	24	27	KED
	Y	**89**		ug/L			333043	336446	2	Standard
	Kr	**83**		ug/L			44	45	17	Standard
⌈>	**In-1**	**115**		ug/L			10197	10281	2	KED
⌈	**Mo**	**98**	**-0.001**	ug/L	0.002	300	9	8	36	KED
⌊	**Cd**	**111**	**0.002**	ug/L	0.001	76	3	4	12	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.004	79	4	7	38	KED
⌈>	**In**	**115**		ug/L			441442	424520	2	Standard
⌈	**Ag**	**107**	**0.001**	ug/L	0.000	69	35	43	15	Standard
⌊	**Sb**	**121**	**-0.015**	ug/L	0.001	7	277	58	28	Standard
⌈	**Sb**	**123**	**-0.015**	ug/L	0.002	14	218	51	46	Standard
⌊	**Ba**	**135**	**0.022**	ug/L	0.003	13	56	154	11	Standard
⌊	**Ba**	**137**	**0.021**	ug/L	0.002	10	90	250	9	Standard
⌈>	**Tb**	**159**		ug/L			829126	802612	1	Standard
⌈	**Tl**	**205**	**-0.001**	ug/L	0.000	13	103	66	7	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	20	332	384	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 02:18:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			451288	450618	2	Standard
	Be	**9**	**49.880**	ug/L	0.588	1	8	184205	3	Standard
	C	**13**		ug/L			30171	28644	2	Standard
	Cl	**37**		ug/L			1636983	1659209	2	Standard
>	**Sc**	**45**		ug/L			558757	588442	2	Standard
	V	**51**	**48.784**	ug/L	1.519	3	6588	1259165	5	Standard
	V-1	**51**	**49.077**	ug/L	1.381	2	458	1265431	5	Standard
	Cr	**52**	**49.407**	ug/L	0.747	1	19428	1063784	4	Standard
	Cr	**53**	**50.395**	ug/L	0.343	0	234	122211	3	Standard
	Mn	**55**	**49.897**	ug/L	0.588	1	747	1532487	2	Standard
>	**Ge**	**72**		ug/L			47927	49147	1	KED
	Co	**59**	**50.333**	ug/L	0.394	0	7	308605	1	KED
	Ni	**60**	**50.699**	ug/L	0.769	1	554	89154	1	KED
	Ni	**62**	**49.953**	ug/L	0.595	1	85	14388	0	KED
	Cu	**63**	**50.370**	ug/L	0.911	1	97	248776	2	KED
	Cu	**65**	**51.741**	ug/L	0.878	1	53	125345	2	KED
	Zn	**66**	**50.938**	ug/L	0.441	0	102	33071	0	KED
	Zn	**67**	**51.431**	ug/L	0.464	0	22	5423	1	KED
	As	**75**	**49.767**	ug/L	0.500	1	5	17205	0	KED
	Se	**78**	**49.611**	ug/L	0.361	0	19	1614	1	KED
	Y	**89**		ug/L			333043	344972	1	Standard
	Kr	**83**		ug/L			44	55	28	Standard
>	**In-1**	**115**		ug/L			10197	10486	2	KED
	Mo	**98**	**51.490**	ug/L	1.172	2	9	80017	3	KED
	Cd	**111**	**51.458**	ug/L	0.712	1	3	16590	2	KED
	Cd	**114**	**51.501**	ug/L	1.069	2	4	42555	2	KED
>	**In**	**115**		ug/L			441442	423365	4	Standard
	Ag	**107**	**49.699**	ug/L	1.737	3	35	858120	1	Standard
	Sb	**121**	**50.555**	ug/L	0.945	1	277	717692	3	Standard
	Sb	**123**	**51.611**	ug/L	2.009	3	218	559540	3	Standard
	Ba	**135**	**52.151**	ug/L	0.919	1	56	235061	4	Standard
	Ba	**137**	**55.556**	ug/L	1.888	3	90	437864	2	Standard
>	**Tb**	**159**		ug/L			829126	811164	3	Standard
	Tl	**205**	**50.684**	ug/L	0.447	0	103	1749793	4	Standard
	Pb	**208**	**50.829**	ug/L	0.413	0	332	2332868	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 02:26:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			451288	453808	5	Standard
⌊	**Be**	**9**	**-0.001**	ug/L	0.001	209	8	5	100	Standard
	C	**13**		ug/L			30171	28714	0	Standard
	Cl	**37**		ug/L			1636983	1722791	1	Standard
⌈>	**Sc**	**45**		ug/L			558757	593372	5	Standard
⌈	**V**	**51**	**0.002**	ug/L	0.008	314	6588	7052	3	Standard
⌈	**V-1**	**51**	**0.005**	ug/L	0.002	37	458	625	2	Standard
⌈	**Cr**	**52**	**0.020**	ug/L	0.021	103	19428	21050	3	Standard
⌈	**Cr**	**53**	**0.030**	ug/L	0.003	9	234	323	5	Standard
⌊	**Mn**	**55**	**-0.000**	ug/L	0.001	176	747	783	5	Standard
⌈>	**Ge**	**72**		ug/L			47927	50451	2	KED
⌈	**Co**	**59**	**-0.001**	ug/L	0.000	81	7	4	65	KED
⌈	**Ni**	**60**	**0.006**	ug/L	0.019	332	554	593	5	KED
⌈	**Ni**	**62**	**0.057**	ug/L	0.061	106	85	106	19	KED
⌈	**Cu**	**63**	**0.001**	ug/L	0.002	177	97	106	8	KED
⌈	**Cu**	**65**	**0.003**	ug/L	0.008	234	53	64	28	KED
⌈	**Zn**	**66**	**0.048**	ug/L	0.015	30	102	139	9	KED
⌈	**Zn**	**67**	**-0.005**	ug/L	0.027	522	22	23	12	KED
⌈	**As**	**75**	**0.001**	ug/L	0.003	186	5	6	15	KED
⌊	**Se**	**78**	**0.082**	ug/L	0.119	145	19	23	13	KED
	Y	**89**		ug/L			333043	348111	6	Standard
	Kr	**83**		ug/L			44	43	39	Standard
⌈>	**In-1**	**115**		ug/L			10197	11197	1	KED
⌈	**Mo**	**98**	**0.008**	ug/L	0.001	10	9	23	4	KED
⌈	**Cd**	**111**	**0.009**	ug/L	0.007	72	3	7	30	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.009	218	4	8	95	KED
⌈>	**In**	**115**		ug/L			441442	441631	5	Standard
⌈	**Ag**	**107**	**0.001**	ug/L	0.001	85	35	53	23	Standard
⌈	**Sb**	**121**	**0.034**	ug/L	0.001	2	277	778	6	Standard
⌈	**Sb**	**123**	**0.034**	ug/L	0.003	8	218	607	10	Standard
⌈	**Ba**	**135**	**-0.001**	ug/L	0.002	214	56	52	11	Standard
⌊	**Ba**	**137**	**0.002**	ug/L	0.000	17	90	106	7	Standard
⌈>	**Tb**	**159**		ug/L			829126	800468	3	Standard
⌈	**Tl**	**205**	**0.001**	ug/L	0.001	54	103	137	16	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.001	1082	332	316	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 02:31:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L				466192	5	Standard
⌊	**Be**	**9**		ug/L				3	100	Standard
	C	**13**		ug/L				30091	2	Standard
	Cl	**37**		ug/L				1714867	2	Standard
⌈>	**Sc**	**45**		ug/L				612814	5	Standard
⎢	**V**	**51**		ug/L				7424	1	Standard
⎢	**V-1**	**51**		ug/L				593	1	Standard
⎢	**Cr**	**52**		ug/L				22079	2	Standard
⎢	**Cr**	**53**		ug/L				310	5	Standard
⌊	**Mn**	**55**		ug/L				827	2	Standard
⌈>	**Ge**	**72**		ug/L				49780	1	KED
⎢	**Co**	**59**		ug/L				5	43	KED
⎢	**Ni**	**60**		ug/L				567	5	KED
⎢	**Ni**	**62**		ug/L				92	11	KED
⎢	**Cu**	**63**		ug/L				100	8	KED
⎢	**Cu**	**65**		ug/L				55	21	KED
⎢	**Zn**	**66**		ug/L				106	22	KED
⎢	**Zn**	**67**		ug/L				21	18	KED
⎢	**As**	**75**		ug/L				3	34	KED
⌊	**Se**	**78**		ug/L				22	18	KED
	Y	**89**		ug/L				354399	2	Standard
	Kr	**83**		ug/L				49	20	Standard
⌈>	**In-1**	**115**		ug/L				10030	0	KED
⎢	**Mo**	**98**		ug/L				10	53	KED
⎢	**Cd**	**111**		ug/L				3	0	KED
⌊	**Cd**	**114**		ug/L				3	143	KED
⌈>	**In**	**115**		ug/L				458222	4	Standard
⎢	**Ag**	**107**		ug/L				35	11	Standard
⎢	**Sb**	**121**		ug/L				294	5	Standard
⎢	**Sb**	**123**		ug/L				255	4	Standard
⎢	**Ba**	**135**		ug/L				50	4	Standard
⌊	**Ba**	**137**		ug/L				86	23	Standard
⌈>	**Tb**	**159**		ug/L				831384	4	Standard
⎢	**Tl**	**205**		ug/L				89	11	Standard
⌊	**Pb**	**208**		ug/L				317	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 02:36:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			466192	459567	2	Standard
⌊	**Be**	**9**	**49.647**	ug/L	1.317	2	3	187003	4	Standard
	C	**13**		ug/L			30091	28343	2	Standard
	Cl	**37**		ug/L			1714867	1688566	1	Standard
⌈>	**Sc**	**45**		ug/L			612814	611437	3	Standard
⌈	**V**	**51**	**48.585**	ug/L	0.997	2	7424	1303135	5	Standard
⌊	**V-1**	**51**	**48.656**	ug/L	0.861	1	593	1303566	4	Standard
⌈	**Cr**	**52**	**49.804**	ug/L	1.420	2	22079	1114834	5	Standard
⌊	**Cr**	**53**	**50.031**	ug/L	0.503	1	310	126114	3	Standard
⌊	**Mn**	**55**	**50.050**	ug/L	1.227	2	827	1598100	5	Standard
⌈>	**Ge**	**72**		ug/L			49780	48361	1	KED
⌈	**Co**	**59**	**49.661**	ug/L	1.836	3	5	299496	2	KED
⌊	**Ni**	**60**	**51.370**	ug/L	2.331	4	567	88848	3	KED
⌈	**Ni**	**62**	**50.892**	ug/L	2.188	4	92	14422	2	KED
⌈	**Cu**	**63**	**50.847**	ug/L	1.486	2	100	247037	1	KED
⌊	**Cu**	**65**	**53.069**	ug/L	2.156	4	55	126458	2	KED
⌈	**Zn**	**66**	**51.428**	ug/L	1.473	2	106	32847	1	KED
⌊	**Zn**	**67**	**52.054**	ug/L	1.427	2	21	5398	1	KED
⌈	**As**	**75**	**50.412**	ug/L	1.026	2	3	17146	0	KED
⌊	**Se**	**78**	**49.003**	ug/L	1.251	2	22	1570	1	KED
	Y	**89**		ug/L			354399	357360	3	Standard
	Kr	**83**		ug/L			49	60	25	Standard
⌈>	**In-1**	**115**		ug/L			10030	10636	0	KED
⌈	**Mo**	**98**	**51.253**	ug/L	1.513	2	10	80777	2	KED
⌈	**Cd**	**111**	**51.156**	ug/L	0.492	0	3	16730	0	KED
⌊	**Cd**	**114**	**51.526**	ug/L	0.900	1	3	43182	1	KED
⌈>	**In**	**115**		ug/L			458222	441689	7	Standard
⌈	**Ag**	**107**	**50.548**	ug/L	1.651	3	35	910218	4	Standard
⌈	**Sb**	**121**	**50.535**	ug/L	3.527	6	294	746240	1	Standard
⌊	**Sb**	**123**	**49.958**	ug/L	3.057	6	255	563815	1	Standard
⌈	**Ba**	**135**	**50.506**	ug/L	2.276	4	50	237045	3	Standard
⌊	**Ba**	**137**	**53.698**	ug/L	3.726	6	86	440508	2	Standard
⌈>	**Tb**	**159**		ug/L			831384	849302	1	Standard
⌈	**Tl**	**205**	**48.875**	ug/L	0.529	1	89	1766382	1	Standard
⌊	**Pb**	**208**	**49.034**	ug/L	1.039	2	317	2357287	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 02:44:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			466192	437276	6	Standard
⌊	**Be**	**9**	**-0.000**	ug/L	0.001	950	3	3	91	Standard
	C	**13**		ug/L			30091	28205	3	Standard
	Cl	**37**		ug/L			1714867	1732308	3	Standard
⌈>	**Sc**	**45**		ug/L			612814	587148	6	Standard
⌈	**V**	**51**	**0.006**	ug/L	0.006	89	7424	7271	5	Standard
⌈	**V-1**	**51**	**0.001**	ug/L	0.001	197	593	585	2	Standard
⌈	**Cr**	**52**	**0.016**	ug/L	0.013	80	22079	21478	6	Standard
⌈	**Cr**	**53**	**-0.004**	ug/L	0.006	160	310	288	11	Standard
⌊	**Mn**	**55**	**-0.002**	ug/L	0.001	85	827	743	9	Standard
⌈>	**Ge**	**72**		ug/L			49780	47253	2	KED
⌈	**Co**	**59**	**-0.000**	ug/L	0.000	172	5	3	50	KED
⌈	**Ni**	**60**	**0.002**	ug/L	0.009	396	567	542	4	KED
⌈	**Ni**	**62**	**-0.042**	ug/L	0.061	145	92	76	19	KED
⌈	**Cu**	**63**	**0.001**	ug/L	0.004	623	100	99	20	KED
⌈	**Cu**	**65**	**0.001**	ug/L	0.005	406	55	55	20	KED
⌈	**Zn**	**66**	**0.029**	ug/L	0.023	79	106	119	14	KED
⌈	**Zn**	**67**	**0.011**	ug/L	0.069	611	21	21	30	KED
⌈	**As**	**75**	**0.005**	ug/L	0.005	110	3	4	36	KED
⌊	**Se**	**78**	**0.085**	ug/L	0.109	127	22	23	13	KED
	Y	**89**		ug/L			354399	337010	5	Standard
	Kr	**83**		ug/L			49	48	26	Standard
⌈>	**In-1**	**115**		ug/L			10030	9249	3	KED
⌈	**Mo**	**98**	**0.004**	ug/L	0.001	38	10	14	16	KED
⌈	**Cd**	**111**	**0.009**	ug/L	0.009	105	3	6	45	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.014	198	3	8	117	KED
⌈>	**In**	**115**		ug/L			458222	427786	4	Standard
⌈	**Ag**	**107**	**0.001**	ug/L	0.001	78	35	49	25	Standard
⌈	**Sb**	**121**	**0.037**	ug/L	0.003	7	294	810	8	Standard
⌈	**Sb**	**123**	**0.037**	ug/L	0.001	3	255	639	2	Standard
⌈	**Ba**	**135**	**0.002**	ug/L	0.001	34	50	57	3	Standard
⌊	**Ba**	**137**	**0.002**	ug/L	0.001	55	86	94	11	Standard
⌈>	**Tb**	**159**		ug/L			831384	786523	6	Standard
⌈	**Tl**	**205**	**0.002**	ug/L	0.001	33	89	147	8	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	60	317	348	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0235-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 02:49:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			466192	543387	3	Standard
	Be	9	0.001	ug/L	0.000	54	3	8	26	Standard
	C	13		ug/L			30091	91771	2	Standard
	Cl	37		ug/L			1714867	1676624	1	Standard
>	Sc	45		ug/L			612814	631925	5	Standard
	V	51	0.183	ug/L	0.024	13	7424	12666	3	Standard
	V-1	51	0.638	ug/L	0.035	5	593	18217	1	Standard
	Cr	52	0.705	ug/L	0.064	9	22079	38715	4	Standard
	Cr	53	2.246	ug/L	0.090	4	310	6149	2	Standard
	Mn	55	318.306	ug/L	7.180	2	827	10486127	3	Standard
>	Ge	72		ug/L			49780	46195	2	KED
	Co	59	0.364	ug/L	0.004	1	5	2101	1	KED
	Ni	60	6.290	ug/L	0.097	1	567	10860	3	KED
	Ni	62	6.141	ug/L	0.307	5	92	1738	4	KED
	Cu	63	1.265	ug/L	0.014	1	100	5963	2	KED
	Cu	65	1.277	ug/L	0.053	4	55	2959	5	KED
	Zn	66	14.679	ug/L	0.224	1	106	9030	3	KED
	Zn	67	17.239	ug/L	0.588	3	21	1721	3	KED
	As	75	0.531	ug/L	0.067	12	3	176	14	KED
	Se	78	0.090	ug/L	0.132	146	22	23	19	KED
	Y	89		ug/L			354399	345372	4	Standard
	Kr	83		ug/L			49	74	9	Standard
>	In-1	115		ug/L			10030	10426	1	KED
	Mo	98	64.092	ug/L	1.188	1	10	99008	1	KED
	Cd	111	0.057	ug/L	0.008	14	3	22	12	KED
	Cd	114	0.039	ug/L	0.017	42	3	36	38	KED
>	In	115		ug/L			458222	440732	3	Standard
	Ag	107	0.001	ug/L	0.001	63	35	53	20	Standard
	Sb	121	6.094	ug/L	0.142	2	294	90326	2	Standard
	Sb	123	6.071	ug/L	0.174	2	255	68800	4	Standard
	Ba	135	57.911	ug/L	1.673	2	50	271890	5	Standard
	Ba	137	60.734	ug/L	0.744	1	86	498800	3	Standard
>	Tb	159		ug/L			831384	853305	2	Standard
	Tl	205	0.000	ug/L	0.000	383	89	94	9	Standard
	Pb	208	0.785	ug/L	0.012	1	317	38216	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0660-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 02:55:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			466192	582105	2	Standard
	Be	9	0.001	ug/L	0.001	75	3	10	39	Standard
	C	13		ug/L			30091	95770	0	Standard
	Cl	37		ug/L			1714867	1642580	2	Standard
>	Sc	45		ug/L			612814	637909	2	Standard
	V	51	0.170	ug/L	0.014	8	7424	12449	4	Standard
	V-1	51	0.713	ug/L	0.009	1	593	20525	1	Standard
	Cr	52	0.759	ug/L	0.033	4	22079	40350	0	Standard
	Cr	53	2.601	ug/L	0.102	3	310	7142	2	Standard
	Mn	55	319.398	ug/L	9.280	2	827	10625760	0	Standard
>	Ge	72		ug/L			49780	45523	2	KED
	Co	59	0.362	ug/L	0.019	5	5	2062	7	KED
	Ni	60	6.552	ug/L	0.163	2	567	11128	4	KED
	Ni	62	6.294	ug/L	0.111	1	92	1754	3	KED
	Cu	63	1.133	ug/L	0.010	0	100	5275	3	KED
	Cu	65	1.173	ug/L	0.037	3	55	2681	3	KED
	Zn	66	14.738	ug/L	0.131	0	106	8934	3	KED
	Zn	67	17.373	ug/L	0.200	1	21	1709	3	KED
	As	75	0.570	ug/L	0.026	4	3	185	4	KED
	Se	78	0.114	ug/L	0.044	38	22	23	3	KED
	Y	89		ug/L			354399	344646	3	Standard
	Kr	83		ug/L			49	67	4	Standard
>	In-1	115		ug/L			10030	10214	1	KED
	Mo	98	65.276	ug/L	1.749	2	10	98785	1	KED
	Cd	111	0.059	ug/L	0.011	18	3	22	14	KED
	Cd	114	0.042	ug/L	0.010	23	3	37	20	KED
>	In	115		ug/L			458222	444439	0	Standard
	Ag	107	0.000	ug/L	0.001	220	35	38	24	Standard
	Sb	121	6.165	ug/L	0.077	1	294	92166	1	Standard
	Sb	123	6.277	ug/L	0.125	1	255	71721	2	Standard
	Ba	135	60.440	ug/L	1.387	2	50	286072	2	Standard
	Ba	137	60.715	ug/L	0.784	1	86	502862	1	Standard
>	Tb	159		ug/L			831384	861840	0	Standard
	Tl	205	0.000	ug/L	0.000	294	89	96	11	Standard
	Pb	208	0.818	ug/L	0.014	1	317	40227	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0660-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 03:01:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			466192	561350	2	Standard
	Be	9	21.744	ug/L	0.267	1	3	100040	3	Standard
	C	13		ug/L			30091	78015	1	Standard
	Cl	37		ug/L			1714867	1540399	2	Standard
>	Sc	45		ug/L			612814	640033	3	Standard
	V	51	24.470	ug/L	0.812	3	7424	690187	2	Standard
	V-1	51	24.842	ug/L	0.884	3	593	696212	1	Standard
	Cr	52	24.617	ug/L	0.703	2	22079	588346	4	Standard
	Cr	53	25.881	ug/L	0.577	2	310	68410	1	Standard
	Mn	55	337.875	ug/L	5.650	1	827	11279003	1	Standard
>	Ge	72		ug/L			49780	46736	2	KED
	Co	59	27.133	ug/L	0.604	2	5	158153	1	KED
	Ni	60	33.240	ug/L	0.329	0	567	55765	1	KED
	Ni	62	32.827	ug/L	1.261	3	92	9021	2	KED
	Cu	63	26.916	ug/L	0.447	1	100	126457	2	KED
	Cu	65	27.615	ug/L	0.763	2	55	63618	0	KED
	Zn	66	92.267	ug/L	1.893	2	106	56874	0	KED
	Zn	67	93.479	ug/L	2.836	3	21	9350	0	KED
	As	75	26.870	ug/L	0.863	3	3	8831	1	KED
	Se	78	81.118	ug/L	0.898	1	22	2498	1	KED
	Y	89		ug/L			354399	351777	1	Standard
	Kr	83		ug/L			49	83	19	Standard
>	In-1	115		ug/L			10030	10255	2	KED
	Mo	98	63.495	ug/L	1.483	2	10	96481	2	KED
	Cd	111	25.350	ug/L	0.894	3	3	7994	3	KED
	Cd	114	25.510	ug/L	0.431	1	3	20613	0	KED
>	In	115		ug/L			458222	451060	2	Standard
	Ag	107	22.368	ug/L	0.157	0	35	411922	1	Standard
	Sb	121	6.181	ug/L	0.091	1	294	93765	1	Standard
	Sb	123	6.200	ug/L	0.064	1	255	71882	1	Standard
	Ba	135	85.901	ug/L	2.574	2	50	412792	5	Standard
	Ba	137	88.489	ug/L	1.340	1	86	743732	2	Standard
>	Tb	159		ug/L			831384	901409	1	Standard
	Tl	205	24.897	ug/L	0.152	0	89	955058	1	Standard
	Pb	208	25.725	ug/L	0.060	0	317	1312493	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLB
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 03:06:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			466192	478607	8	Standard
⌊	**Be**	**9**	**0.001**	ug/L	0.001	116	3	6	45	Standard
	C	**13**		ug/L			30091	31162	4	Standard
	Cl	**37**		ug/L			1714867	1680428	1	Standard
⌈>	**Sc**	**45**		ug/L			612814	600006	3	Standard
⌈	**V**	**51**	**-0.007**	ug/L	0.009	137	7424	7090	2	Standard
⌊	**V-1**	**51**	**0.016**	ug/L	0.002	10	593	1001	1	Standard
⌈	**Cr**	**52**	**-0.018**	ug/L	0.020	108	22079	21217	2	Standard
⌊	**Cr**	**53**	**0.059**	ug/L	0.007	12	310	450	6	Standard
⌊	**Mn**	**55**	**0.000**	ug/L	0.000	155	827	817	5	Standard
⌈>	**Ge**	**72**		ug/L			49780	46404	2	KED
⌈	**Co**	**59**	**0.000**	ug/L	0.000	42	5	6	15	KED
⌊	**Ni**	**60**	**-0.311**	ug/L	0.002	0	567	15	24	KED
⌈	**Ni**	**62**	**-0.308**	ug/L	0.004	1	92	3	34	KED
⌈	**Cu**	**63**	**0.015**	ug/L	0.003	23	100	162	11	KED
⌊	**Cu**	**65**	**0.019**	ug/L	0.007	37	55	93	16	KED
⌈	**Zn**	**66**	**0.002**	ug/L	0.005	213	106	100	4	KED
⌊	**Zn**	**67**	**-0.017**	ug/L	0.046	268	21	18	23	KED
⌈	**As**	**75**	**0.002**	ug/L	0.004	236	3	3	33	KED
⌊	**Se**	**78**	**-0.007**	ug/L	0.055	779	22	20	10	KED
	Y	**89**		ug/L			354399	350631	2	Standard
	Kr	**83**		ug/L			49	46	8	Standard
⌈>	**In-1**	**115**		ug/L			10030	10616	1	KED
⌈	**Mo**	**98**	**0.001**	ug/L	0.002	143	10	13	21	KED
⌊	**Cd**	**111**	**0.011**	ug/L	0.010	94	3	7	45	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.005	270	3	5	74	KED
⌈>	**In**	**115**		ug/L			458222	442393	3	Standard
⌈	**Ag**	**107**	**0.000**	ug/L	0.000	101	35	39	10	Standard
⌈	**Sb**	**121**	**-0.011**	ug/L	0.000	3	294	128	5	Standard
⌊	**Sb**	**123**	**-0.014**	ug/L	0.001	4	255	88	10	Standard
⌈	**Ba**	**135**	**0.024**	ug/L	0.001	5	50	161	7	Standard
⌊	**Ba**	**137**	**0.026**	ug/L	0.002	7	86	296	7	Standard
⌈>	**Tb**	**159**		ug/L			831384	859628	5	Standard
⌈	**Tl**	**205**	**-0.000**	ug/L	0.000	849	89	91	16	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	40	317	391	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0328-02
Sample Dil Factor: 50
Comments:
Sample Date/Time: Wednesday, April 26, 2023 03:11:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			466192	501936	3	Standard
	Be	**9**	**0.089**	ug/L	0.006	6	3	368	2	Standard
	C	**13**		ug/L			30091	44588	0	Standard
	Cl	**37**		ug/L			1714867	1621263	1	Standard
>	**Sc**	**45**		ug/L			612814	684600	3	Standard
	V	**51**	**12.919**	ug/L	0.368	2	7424	393660	0	Standard
	V-1	**51**	**12.967**	ug/L	0.358	2	593	389080	0	Standard
	Cr	**52**	**6.673**	ug/L	0.107	1	22079	188508	2	Standard
	Cr	**53**	**6.924**	ug/L	0.192	2	310	19836	3	Standard
	Mn	**55**	**63.278**	ug/L	0.985	1	827	2260196	1	Standard
>	**Ge**	**72**		ug/L			49780	47882	4	KED
	Co	**59**	**2.016**	ug/L	0.052	2	5	12039	3	KED
	Ni	**60**	**4.705**	ug/L	0.037	0	567	8555	4	KED
	Ni	**62**	**4.536**	ug/L	0.225	4	92	1353	4	KED
	Cu	**63**	**13.256**	ug/L	0.149	1	100	63842	3	KED
	Cu	**65**	**13.789**	ug/L	0.192	1	55	32598	5	KED
	Zn	**66**	**32.267**	ug/L	0.210	0	106	20450	4	KED
	Zn	**67**	**30.662**	ug/L	0.952	3	21	3158	5	KED
	As	**75**	**3.221**	ug/L	0.084	2	3	1088	6	KED
	Se	**78**	**0.278**	ug/L	0.153	54	22	30	12	KED
	Y	**89**		ug/L			354399	478118	2	Standard
	Kr	**83**		ug/L			49	52	4	Standard
>	**In-1**	**115**		ug/L			10030	9988	1	KED
	Mo	**98**	**0.544**	ug/L	0.045	8	10	814	6	KED
	Cd	**111**	**0.135**	ug/L	0.017	12	3	45	10	KED
	Cd	**114**	**0.124**	ug/L	0.030	23	3	101	24	KED
>	**In**	**115**		ug/L			458222	472065	1	Standard
	Ag	**107**	**0.163**	ug/L	0.006	3	35	3185	5	Standard
	Sb	**121**	**0.018**	ug/L	0.002	12	294	595	7	Standard
	Sb	**123**	**0.017**	ug/L	0.001	3	255	473	2	Standard
	Ba	**135**	**15.742**	ug/L	0.397	2	50	79169	2	Standard
	Ba	**137**	**16.274**	ug/L	0.283	1	86	143209	1	Standard
>	**Tb**	**159**		ug/L			831384	909104	0	Standard
	Tl	**205**	**0.022**	ug/L	0.001	3	89	940	3	Standard
	Pb	**208**	**14.388**	ug/L	0.314	2	317	740436	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0289-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Wednesday, April 26, 2023 03:16:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			466192	500905	0	Standard
⌊	**Be**	**9**	**0.083**	ug/L	0.005	5	3	344	5	Standard
	C	**13**		ug/L			30091	45403	0	Standard
	Cl	**37**		ug/L			1714867	1607591	1	Standard
⌈>	**Sc**	**45**		ug/L			612814	671252	1	Standard
⌈	**V**	**51**	**13.164**	ug/L	0.143	1	7424	393349	0	Standard
⌊	**V-1**	**51**	**13.164**	ug/L	0.183	1	593	387486	0	Standard
⌈	**Cr**	**52**	**6.747**	ug/L	0.069	1	22079	186648	0	Standard
⌊	**Cr**	**53**	**6.840**	ug/L	0.218	3	310	19216	2	Standard
⌊	**Mn**	**55**	**66.372**	ug/L	1.230	1	827	2325074	1	Standard
⌈>	**Ge**	**72**		ug/L			49780	46431	2	KED
⌈	**Co**	**59**	**2.016**	ug/L	0.084	4	5	11673	2	KED
⌊	**Ni**	**60**	**4.493**	ug/L	0.275	6	567	7939	3	KED
⌈	**Ni**	**62**	**4.351**	ug/L	0.450	10	92	1262	8	KED
⌈	**Cu**	**63**	**12.443**	ug/L	0.677	5	100	58091	4	KED
⌊	**Cu**	**65**	**12.941**	ug/L	0.544	4	55	29642	3	KED
⌈	**Zn**	**66**	**32.586**	ug/L	1.440	4	106	20014	3	KED
⌊	**Zn**	**67**	**31.030**	ug/L	0.504	1	21	3099	4	KED
⌈	**As**	**75**	**3.399**	ug/L	0.125	3	3	1112	2	KED
⌊	**Se**	**78**	**0.271**	ug/L	0.133	48	22	29	15	KED
	Y	**89**		ug/L			354399	467960	2	Standard
	Kr	**83**		ug/L			49	54	29	Standard
⌈>	**In-1**	**115**		ug/L			10030	10282	6	KED
⌈	**Mo**	**98**	**0.515**	ug/L	0.036	7	10	792	4	KED
⌈	**Cd**	**111**	**0.150**	ug/L	0.022	14	3	51	16	KED
⌊	**Cd**	**114**	**0.137**	ug/L	0.006	4	3	114	10	KED
⌈>	**In**	**115**		ug/L			458222	459029	1	Standard
⌈	**Ag**	**107**	**0.168**	ug/L	0.005	3	35	3187	2	Standard
⌈	**Sb**	**121**	**0.018**	ug/L	0.001	5	294	572	0	Standard
⌊	**Sb**	**123**	**0.016**	ug/L	0.002	11	255	444	3	Standard
⌈	**Ba**	**135**	**16.049**	ug/L	0.512	3	50	78461	1	Standard
⌊	**Ba**	**137**	**16.659**	ug/L	0.179	1	86	142549	1	Standard
⌈>	**Tb**	**159**		ug/L			831384	909484	1	Standard
⌈	**Tl**	**205**	**0.021**	ug/L	0.000	2	89	914	3	Standard
⌊	**Pb**	**208**	**15.068**	ug/L	0.367	2	317	775607	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0289-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Wednesday, April 26, 2023 03:21:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			466192	467609	2	Standard
⌊	**Be**	**9**	**10.010**	ug/L	0.192	1	3	38363	3	Standard
	C	**13**		ug/L			30091	42029	1	Standard
	Cl	**37**		ug/L			1714867	1608034	1	Standard
⌈>	**Sc**	**45**		ug/L			612814	615145	2	Standard
⌈	**V**	**51**	**22.473**	ug/L	0.387	1	7424	610069	1	Standard
⌊	**V-1**	**51**	**22.576**	ug/L	0.389	1	593	608514	1	Standard
⌈	**Cr**	**52**	**16.235**	ug/L	0.262	1	22079	380367	0	Standard
⌊	**Cr**	**53**	**16.673**	ug/L	0.196	1	310	42484	1	Standard
⌊	**Mn**	**55**	**76.017**	ug/L	1.407	1	827	2439931	1	Standard
⌈>	**Ge**	**72**		ug/L			49780	45610	1	KED
⌈	**Co**	**59**	**12.796**	ug/L	0.124	0	5	72818	2	KED
⌊	**Ni**	**60**	**15.335**	ug/L	0.177	1	567	25388	1	KED
⌈	**Ni**	**62**	**15.140**	ug/L	0.483	3	92	4107	2	KED
⌈	**Cu**	**63**	**26.051**	ug/L	0.288	1	100	119440	1	KED
⌊	**Cu**	**65**	**27.447**	ug/L	0.697	2	55	61713	0	KED
⌈	**Zn**	**66**	**68.212**	ug/L	1.059	1	106	41064	0	KED
⌊	**Zn**	**67**	**67.261**	ug/L	0.392	0	21	6574	1	KED
⌈	**As**	**75**	**13.582**	ug/L	0.353	2	3	4358	0	KED
⌊	**Se**	**78**	**31.626**	ug/L	1.047	3	22	962	1	KED
	Y	**89**		ug/L			354399	437883	1	Standard
	Kr	**83**		ug/L			49	43	17	Standard
⌈>	**In-1**	**115**		ug/L			10030	9824	4	KED
⌈	**Mo**	**98**	**0.504**	ug/L	0.015	2	10	744	1	KED
⌈	**Cd**	**111**	**11.214**	ug/L	0.310	2	3	3388	1	KED
⌊	**Cd**	**114**	**10.958**	ug/L	0.213	1	3	8481	2	KED
⌈>	**In**	**115**		ug/L			458222	430893	1	Standard
⌈	**Ag**	**107**	**10.007**	ug/L	0.084	0	35	176069	0	Standard
⌈	**Sb**	**121**	**0.025**	ug/L	0.004	16	294	642	9	Standard
⌊	**Sb**	**123**	**0.023**	ug/L	0.002	10	255	490	6	Standard
⌈	**Ba**	**135**	**26.183**	ug/L	0.255	0	50	120166	0	Standard
⌊	**Ba**	**137**	**27.220**	ug/L	0.122	0	86	218623	1	Standard
⌈>	**Tb**	**159**		ug/L			831384	849270	2	Standard
⌈	**Tl**	**205**	**10.126**	ug/L	0.139	1	89	365990	2	Standard
⌊	**Pb**	**208**	**25.759**	ug/L	0.211	0	317	1238007	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0289-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Wednesday, April 26, 2023 03:26:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			466192	456402	2	Standard
⌊	**Be**	**9**	**10.543**	ug/L	0.255	2	3	39449	4	Standard
	C	**13**		ug/L			30091	43353	3	Standard
	Cl	**37**		ug/L			1714867	1607874	1	Standard
⌈>	**Sc**	**45**		ug/L			612814	622853	4	Standard
⌈	**V**	**51**	**22.829**	ug/L	0.352	1	7424	627216	2	Standard
⌊	**V-1**	**51**	**22.854**	ug/L	0.413	1	593	623505	2	Standard
⌈	**Cr**	**52**	**16.412**	ug/L	0.231	1	22079	389070	3	Standard
⌊	**Cr**	**53**	**16.588**	ug/L	0.374	2	310	42778	1	Standard
⌊	**Mn**	**55**	**77.370**	ug/L	2.005	2	827	2513175	1	Standard
⌈>	**Ge**	**72**		ug/L			49780	47143	1	KED
⌈	**Co**	**59**	**12.630**	ug/L	0.293	2	5	74304	4	KED
⌊	**Ni**	**60**	**15.865**	ug/L	0.101	0	567	27133	2	KED
⌈	**Ni**	**62**	**15.598**	ug/L	0.536	3	92	4372	4	KED
⌈	**Cu**	**63**	**24.357**	ug/L	0.275	1	100	115446	2	KED
⌊	**Cu**	**65**	**24.728**	ug/L	0.186	0	55	57486	1	KED
⌈	**Zn**	**66**	**66.211**	ug/L	0.778	1	106	41202	0	KED
⌊	**Zn**	**67**	**64.485**	ug/L	2.006	3	21	6513	1	KED
⌈	**As**	**75**	**13.527**	ug/L	0.215	1	3	4488	2	KED
⌊	**Se**	**78**	**32.404**	ug/L	0.516	1	22	1019	3	KED
	Y	**89**		ug/L			354399	437842	2	Standard
	Kr	**83**		ug/L			49	50	9	Standard
⌈>	**In-1**	**115**		ug/L			10030	10633	0	KED
⌈	**Mo**	**98**	**0.499**	ug/L	0.023	4	10	796	3	KED
⌈	**Cd**	**111**	**11.104**	ug/L	0.297	2	3	3634	2	KED
⌊	**Cd**	**114**	**11.097**	ug/L	0.418	3	3	9300	3	KED
⌈>	**In**	**115**		ug/L			458222	439281	1	Standard
⌈	**Ag**	**107**	**9.917**	ug/L	0.210	2	35	177853	0	Standard
⌈	**Sb**	**121**	**0.021**	ug/L	0.002	10	294	598	5	Standard
⌊	**Sb**	**123**	**0.016**	ug/L	0.000	2	255	426	2	Standard
⌈	**Ba**	**135**	**26.292**	ug/L	1.646	6	50	122946	4	Standard
⌊	**Ba**	**137**	**27.456**	ug/L	1.415	5	86	224676	3	Standard
⌈>	**Tb**	**159**		ug/L			831384	870353	3	Standard
⌈	**Tl**	**205**	**10.077**	ug/L	0.244	2	89	373083	1	Standard
⌊	**Pb**	**208**	**24.705**	ug/L	0.365	1	317	1216568	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0289-PS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Wednesday, April 26, 2023 03:31:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			466192	470940	2	Standard
⌊	**Be**	**9**	**24.718**	ug/L	0.495	2	3	95391	2	Standard
	C	**13**		ug/L			30091	46528	2	Standard
	Cl	**37**		ug/L			1714867	1616367	3	Standard
⌈>	**Sc**	**45**		ug/L			612814	632663	2	Standard
⌈	**V**	**51**	**35.528**	ug/L	0.498	1	7424	987620	2	Standard
⌊	**V-1**	**51**	**35.772**	ug/L	0.667	1	593	991362	2	Standard
⌈	**Cr**	**52**	**29.478**	ug/L	0.465	1	22079	691988	3	Standard
⌊	**Cr**	**53**	**30.393**	ug/L	0.788	2	310	79391	3	Standard
⌊	**Mn**	**55**	**90.008**	ug/L	2.065	2	827	2972353	4	Standard
⌈>	**Ge**	**72**		ug/L			49780	47724	0	KED
⌈	**Co**	**59**	**28.285**	ug/L	0.573	2	5	168422	2	KED
⌈	**Ni**	**60**	**31.315**	ug/L	0.595	1	567	53682	1	KED
⌊	**Ni**	**62**	**30.900**	ug/L	0.523	1	92	8680	2	KED
⌈	**Cu**	**63**	**39.889**	ug/L	0.186	0	100	191324	1	KED
⌊	**Cu**	**65**	**41.346**	ug/L	0.493	1	55	97283	2	KED
⌈	**Zn**	**66**	**115.119**	ug/L	0.546	0	106	72458	1	KED
⌊	**Zn**	**67**	**112.649**	ug/L	2.612	2	21	11506	1	KED
⌈	**As**	**75**	**28.658**	ug/L	0.506	1	3	9621	1	KED
⌊	**Se**	**78**	**78.431**	ug/L	1.062	1	22	2467	2	KED
	Y	**89**		ug/L			354399	451796	4	Standard
	Kr	**83**		ug/L			49	57	14	Standard
⌈>	**In-1**	**115**		ug/L			10030	10087	2	KED
⌈	**Mo**	**98**	**0.545**	ug/L	0.010	1	10	825	1	KED
⌈	**Cd**	**111**	**26.747**	ug/L	0.368	1	3	8296	1	KED
⌊	**Cd**	**114**	**26.859**	ug/L	0.388	1	3	21350	2	KED
⌈>	**In**	**115**		ug/L			458222	439516	4	Standard
⌈	**Ag**	**107**	**24.797**	ug/L	1.031	4	35	444471	2	Standard
⌈	**Sb**	**121**	**0.019**	ug/L	0.000	0	294	556	4	Standard
⌊	**Sb**	**123**	**0.018**	ug/L	0.003	19	255	444	6	Standard
⌈	**Ba**	**135**	**44.031**	ug/L	0.657	1	50	206009	3	Standard
⌊	**Ba**	**137**	**44.757**	ug/L	0.667	1	86	366766	6	Standard
⌈>	**Tb**	**159**		ug/L			831384	872166	1	Standard
⌈	**Tl**	**205**	**25.016**	ug/L	0.305	1	89	928622	2	Standard
⌊	**Pb**	**208**	**39.698**	ug/L	0.547	1	317	1959288	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLC
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 03:37:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			466192	473251	7	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.001	340	3	5	78	Standard
	C	**13**		ug/L			30091	29395	4	Standard
	Cl	**37**		ug/L			1714867	1647633	1	Standard
⌈>	**Sc**	**45**		ug/L			612814	585594	7	Standard
⌈	**V**	**51**	**-0.017**	ug/L	0.008	46	7424	6652	4	Standard
⌈	**V-1**	**51**	**-0.004**	ug/L	0.002	49	593	470	2	Standard
⌈	**Cr**	**52**	**-0.059**	ug/L	0.021	35	22079	19841	5	Standard
⌈	**Cr**	**53**	**-0.013**	ug/L	0.002	15	310	265	7	Standard
⌊	**Mn**	**55**	**-0.002**	ug/L	0.002	91	827	736	5	Standard
⌈>	**Ge**	**72**		ug/L			49780	44051	0	KED
⌈	**Co**	**59**	**-0.001**	ug/L	0.000	28	5	0	173	KED
⌈	**Ni**	**60**	**-0.311**	ug/L	0.001	0	567	15	12	KED
⌈	**Ni**	**62**	**-0.297**	ug/L	0.008	2	92	5	33	KED
⌈	**Cu**	**63**	**0.013**	ug/L	0.007	51	100	147	20	KED
⌈	**Cu**	**65**	**0.014**	ug/L	0.004	25	55	79	9	KED
⌈	**Zn**	**66**	**0.027**	ug/L	0.016	60	106	109	8	KED
⌈	**Zn**	**67**	**0.020**	ug/L	0.070	356	21	20	31	KED
⌈	**As**	**75**	**0.002**	ug/L	0.003	178	3	3	27	KED
⌊	**Se**	**78**	**-0.001**	ug/L	0.113	10928	22	19	16	KED
	Y	**89**		ug/L			354399	347319	3	Standard
	Kr	**83**		ug/L			49	48	14	Standard
⌈>	**In-1**	**115**		ug/L			10030	10221	3	KED
⌈	**Mo**	**98**	**-0.002**	ug/L	0.000	15	10	7	4	KED
⌈	**Cd**	**111**	**0.003**	ug/L	0.001	18	3	4	0	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.004	64	3	9	41	KED
⌈>	**In**	**115**		ug/L			458222	443422	8	Standard
⌈	**Ag**	**107**	**0.000**	ug/L	0.000	25	35	43	9	Standard
⌈	**Sb**	**121**	**-0.014**	ug/L	0.000	3	294	69	7	Standard
⌈	**Sb**	**123**	**-0.017**	ug/L	0.001	6	255	54	25	Standard
⌈	**Ba**	**135**	**0.023**	ug/L	0.004	17	50	157	9	Standard
⌊	**Ba**	**137**	**0.026**	ug/L	0.002	7	86	295	9	Standard
⌈>	**Tb**	**159**		ug/L			831384	839364	5	Standard
⌈	**Tl**	**205**	**-0.000**	ug/L	0.000	327	89	86	21	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	22	317	397	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 03:42:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			466192	461626	6	Standard
	Be	**9**	**50.585**	ug/L	3.526	6	3	190761	0	Standard
	C	**13**		ug/L			30091	30154	2	Standard
	Cl	**37**		ug/L			1714867	1629547	1	Standard
>	**Sc**	**45**		ug/L			612814	592183	6	Standard
	V	**51**	**49.364**	ug/L	3.817	7	7424	1277646	2	Standard
	V-1	**51**	**49.642**	ug/L	3.500	7	593	1283783	1	Standard
	Cr	**52**	**50.645**	ug/L	4.649	9	22079	1093550	4	Standard
	Cr	**53**	**51.571**	ug/L	3.450	6	310	125533	1	Standard
	Mn	**55**	**50.608**	ug/L	4.328	8	827	1559143	3	Standard
>	**Ge**	**72**		ug/L			49780	47453	2	KED
	Co	**59**	**50.831**	ug/L	0.585	1	5	300856	1	KED
	Ni	**60**	**51.018**	ug/L	0.604	1	567	86641	3	KED
	Ni	**62**	**51.387**	ug/L	0.179	0	92	14296	2	KED
	Cu	**63**	**51.713**	ug/L	0.367	0	100	246636	3	KED
	Cu	**65**	**53.219**	ug/L	0.407	0	55	124472	1	KED
	Zn	**66**	**51.504**	ug/L	0.790	1	106	32285	2	KED
	Zn	**67**	**51.491**	ug/L	1.299	2	21	5243	4	KED
	As	**75**	**50.084**	ug/L	0.950	1	3	16717	2	KED
	Se	**78**	**49.090**	ug/L	0.375	0	22	1543	2	KED
	Y	**89**		ug/L			354399	347753	8	Standard
	Kr	**83**		ug/L			49	52	43	Standard
>	**In-1**	**115**		ug/L			10030	10057	2	KED
	Mo	**98**	**52.418**	ug/L	1.677	3	10	78097	2	KED
	Cd	**111**	**52.383**	ug/L	2.184	4	3	16192	3	KED
	Cd	**114**	**52.619**	ug/L	1.003	1	3	41690	1	KED
>	**In**	**115**		ug/L			458222	436318	4	Standard
	Ag	**107**	**50.105**	ug/L	1.987	3	35	891551	2	Standard
	Sb	**121**	**50.701**	ug/L	2.614	5	294	741190	3	Standard
	Sb	**123**	**51.308**	ug/L	1.981	3	255	573046	1	Standard
	Ba	**135**	**54.587**	ug/L	2.626	4	50	253253	0	Standard
	Ba	**137**	**56.852**	ug/L	2.418	4	86	461656	1	Standard
>	**Tb**	**159**		ug/L			831384	859347	4	Standard
	Tl	**205**	**51.005**	ug/L	1.567	3	89	1863547	2	Standard
	Pb	**208**	**51.323**	ug/L	2.126	4	317	2492918	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 03:49:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			466192	460317	2	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.001	3722	3	3	86	Standard
	C	**13**		ug/L			30091	29202	5	Standard
	Cl	**37**		ug/L			1714867	1701909	1	Standard
⌈>	**Sc**	**45**		ug/L			612814	599715	4	Standard
⌈	**V**	**51**	**-0.005**	ug/L	0.011	215	7424	7125	1	Standard
⌊	**V-1**	**51**	**-0.005**	ug/L	0.002	32	593	453	4	Standard
⌈	**Cr**	**52**	**-0.023**	ug/L	0.038	165	22079	21086	2	Standard
⌊	**Cr**	**53**	**-0.022**	ug/L	0.008	37	310	248	7	Standard
⌊	**Mn**	**55**	**-0.003**	ug/L	0.002	59	827	727	2	Standard
⌈>	**Ge**	**72**		ug/L			49780	47996	1	KED
⌈	**Co**	**59**	**0.000**	ug/L	0.000	226	5	5	33	KED
⌊	**Ni**	**60**	**-0.305**	ug/L	0.001	0	567	27	10	KED
⌈	**Ni**	**62**	**-0.292**	ug/L	0.012	4	92	7	43	KED
⌊	**Cu**	**63**	**0.004**	ug/L	0.005	118	100	116	18	KED
⌈	**Cu**	**65**	**0.005**	ug/L	0.002	43	55	64	7	KED
⌊	**Zn**	**66**	**0.091**	ug/L	0.011	12	106	160	6	KED
⌈	**Zn**	**67**	**0.039**	ug/L	0.023	59	21	24	7	KED
⌊	**As**	**75**	**0.003**	ug/L	0.006	180	3	4	44	KED
⌊	**Se**	**78**	**0.022**	ug/L	0.073	330	22	22	10	KED
	Y	**89**		ug/L			354399	341601	3	Standard
	Kr	**83**		ug/L			49	50	12	Standard
⌈>	**In-1**	**115**		ug/L			10030	10267	4	KED
⌈	**Mo**	**98**	**-0.000**	ug/L	0.003	1708	10	10	38	KED
⌊	**Cd**	**111**	**0.004**	ug/L	0.009	241	3	5	57	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.001	190	3	4	24	KED
⌈>	**In**	**115**		ug/L			458222	446608	3	Standard
⌈	**Ag**	**107**	**0.001**	ug/L	0.001	47	35	58	17	Standard
⌊	**Sb**	**121**	**0.033**	ug/L	0.001	3	294	781	5	Standard
⌈	**Sb**	**123**	**0.031**	ug/L	0.003	9	255	604	8	Standard
⌊	**Ba**	**135**	**0.013**	ug/L	0.002	16	50	113	7	Standard
⌊	**Ba**	**137**	**0.012**	ug/L	0.003	23	86	185	13	Standard
⌈>	**Tb**	**159**		ug/L			831384	834820	3	Standard
⌈	**Tl**	**205**	**0.002**	ug/L	0.001	39	89	145	12	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.001	242	317	295	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0512-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 03:55:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			466192	453562	2	Standard
[	**Be**	**9**	**0.002**	ug/L	0.001	42	3	12	31	Standard
	C	**13**		ug/L			30091	74078	1	Standard
	Cl	**37**		ug/L			1714867	1342305	2	Standard
[>	**Sc**	**45**		ug/L			612814	657145	2	Standard
[	**V**	**51**	**0.107**	ug/L	0.008	7	7424	11018	1	Standard
[	**V-1**	**51**	**0.119**	ug/L	0.001	1	593	4065	3	Standard
[	**Cr**	**52**	**0.171**	ug/L	0.030	17	22079	27703	0	Standard
[	**Cr**	**53**	**0.212**	ug/L	0.013	6	310	906	3	Standard
[	**Mn**	**55**	**206.833**	ug/L	6.348	3	827	7087750	0	Standard
[>	**Ge**	**72**		ug/L			49780	41828	2	KED
[	**Co**	**59**	**0.012**	ug/L	0.003	27	5	67	26	KED
[	**Ni**	**60**	**-0.020**	ug/L	0.017	88	567	448	8	KED
[	**Ni**	**62**	**-0.054**	ug/L	0.036	66	92	64	12	KED
[	**Cu**	**63**	**0.005**	ug/L	0.003	64	100	106	10	KED
[	**Cu**	**65**	**0.048**	ug/L	0.011	23	55	144	17	KED
[	**Zn**	**66**	**0.240**	ug/L	0.073	30	106	221	17	KED
[	**Zn**	**67**	**24.739**	ug/L	0.818	3	21	2230	5	KED
[	**As**	**75**	**0.028**	ug/L	0.008	28	3	11	21	KED
[	**Se**	**78**	**0.191**	ug/L	0.124	64	22	23	13	KED
	Y	**89**		ug/L			354399	327997	2	Standard
	Kr	**83**		ug/L			49	72	18	Standard
[>	**In-1**	**115**		ug/L			10030	9629	3	KED
[	**Mo**	**98**	**0.016**	ug/L	0.007	39	10	33	24	KED
[	**Cd**	**111**	**0.005**	ug/L	0.010	215	3	5	60	KED
[	**Cd**	**114**	**0.006**	ug/L	0.009	150	3	7	83	KED
[>	**In**	**115**		ug/L			458222	387568	3	Standard
[	**Ag**	**107**	**0.001**	ug/L	0.001	102	35	39	21	Standard
[	**Sb**	**121**	**0.009**	ug/L	0.002	26	294	359	6	Standard
[	**Sb**	**123**	**0.006**	ug/L	0.001	14	255	273	4	Standard
[	**Ba**	**135**	**419.600**	ug/L	11.011	2	50	1730812	1	Standard
[	**Ba**	**137**	**467.039**	ug/L	3.001	0	86	3373143	3	Standard
[>	**Tb**	**159**		ug/L			831384	773792	1	Standard
[	**Tl**	**205**	**-0.000**	ug/L	0.000	46	89	70	8	Standard
[	**Pb**	**208**	**-0.001**	ug/L	0.000	8	317	240	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0512-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 04:00:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			466192	433275	5	Standard
	Be	9	0.000	ug/L	0.001	371	3	5	108	Standard
	C	13		ug/L			30091	67790	2	Standard
	Cl	37		ug/L			1714867	1344069	2	Standard
>	Sc	45		ug/L			612814	626396	2	Standard
	V	51	0.122	ug/L	0.004	2	7424	10933	1	Standard
	V-1	51	0.124	ug/L	0.002	1	593	4019	3	Standard
	Cr	52	0.247	ug/L	0.018	7	22079	28112	1	Standard
	Cr	53	0.252	ug/L	0.009	3	310	965	4	Standard
	Mn	55	207.381	ug/L	3.985	1	827	6777352	2	Standard
>	Ge	72		ug/L			49780	42337	2	KED
	Co	59	0.018	ug/L	0.002	9	5	97	11	KED
	Ni	60	-0.008	ug/L	0.039	485	567	471	14	KED
	Ni	62	-0.047	ug/L	0.044	93	92	67	17	KED
	Cu	63	0.045	ug/L	0.002	3	100	277	3	KED
	Cu	65	0.079	ug/L	0.013	16	55	212	14	KED
	Zn	66	0.177	ug/L	0.048	27	106	189	11	KED
	Zn	67	24.118	ug/L	0.387	1	21	2199	1	KED
	As	75	0.022	ug/L	0.006	29	3	9	22	KED
	Se	78	0.182	ug/L	0.106	58	22	24	11	KED
	Y	89		ug/L			354399	317263	2	Standard
	Kr	83		ug/L			49	83	4	Standard
>	In-1	115		ug/L			10030	9518	0	KED
	Mo	98	0.022	ug/L	0.011	48	10	41	35	KED
	Cd	111	0.010	ug/L	0.006	55	3	6	24	KED
	Cd	114	0.005	ug/L	0.008	147	3	7	79	KED
>	In	115		ug/L			458222	371106	2	Standard
	Ag	107	0.001	ug/L	0.001	46	35	48	16	Standard
	Sb	121	-0.003	ug/L	0.001	37	294	204	8	Standard
	Sb	123	-0.004	ug/L	0.002	63	255	170	15	Standard
	Ba	135	408.380	ug/L	4.771	1	50	1613886	3	Standard
	Ba	137	468.014	ug/L	11.820	2	86	3234647	0	Standard
>	Tb	159		ug/L			831384	752392	3	Standard
	Tl	205	-0.001	ug/L	0.000	28	89	43	21	Standard
	Pb	208	-0.001	ug/L	0.000	15	317	254	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0512-03
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 04:05:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			466192	461038	3	Standard
	Be	9	0.009	ug/L	0.001	15	3	38	15	Standard
	C	13		ug/L			30091	66183	0	Standard
	Cl	37		ug/L			1714867	1509925	1	Standard
>	Sc	45		ug/L			612814	656637	1	Standard
	V	51	0.527	ug/L	0.013	2	7424	23056	3	Standard
	V-1	51	0.530	ug/L	0.017	3	593	15879	4	Standard
	Cr	52	0.264	ug/L	0.014	5	22079	29869	0	Standard
	Cr	53	0.277	ug/L	0.020	7	310	1080	4	Standard
	Mn	55	608.420	ug/L	10.389	1	827	20841307	1	Standard
>	Ge	72		ug/L			49780	46111	1	KED
	Co	59	0.083	ug/L	0.007	8	5	483	8	KED
	Ni	60	-0.118	ug/L	0.017	14	567	333	10	KED
	Ni	62	-0.149	ug/L	0.008	5	92	45	4	KED
	Cu	63	0.439	ug/L	0.018	4	100	2128	5	KED
	Cu	65	0.482	ug/L	0.024	4	55	1146	2	KED
	Zn	66	0.553	ug/L	0.040	7	106	434	4	KED
	Zn	67	9.340	ug/L	0.108	1	21	940	3	KED
	As	75	0.310	ug/L	0.015	4	3	103	2	KED
	Se	78	0.120	ug/L	0.291	243	22	24	34	KED
	Y	89		ug/L			354399	350834	3	Standard
	Kr	83		ug/L			49	73	25	Standard
>	In-1	115		ug/L			10030	9479	2	KED
	Mo	98	0.029	ug/L	0.004	15	10	50	10	KED
	Cd	111	0.003	ug/L	0.010	347	3	4	65	KED
	Cd	114	0.001	ug/L	0.006	734	3	3	109	KED
>	In	115		ug/L			458222	422695	1	Standard
	Ag	107	0.002	ug/L	0.001	44	35	63	21	Standard
	Sb	121	0.027	ug/L	0.001	4	294	653	3	Standard
	Sb	123	0.026	ug/L	0.003	10	255	512	4	Standard
	Ba	135	149.190	ug/L	3.301	2	50	671363	0	Standard
	Ba	137	150.022	ug/L	2.806	1	86	1181499	1	Standard
>	Tb	159		ug/L			831384	829632	3	Standard
	Tl	205	-0.001	ug/L	0.000	5	89	38	8	Standard
	Pb	208	0.061	ug/L	0.001	1	317	3156	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0512-04
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 04:10:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			466192	463644	2	Standard
[	**Be**	**9**	**0.005**	ug/L	0.001	22	3	21	20	Standard
	C	**13**		ug/L			30091	64051	2	Standard
	Cl	**37**		ug/L			1714867	1228891	2	Standard
[>	**Sc**	**45**		ug/L			612814	716479	4	Standard
[	**V**	**51**	**0.004**	ug/L	0.010	226	7424	8805	1	Standard
[	**V-1**	**51**	**0.083**	ug/L	0.002	2	593	3284	3	Standard
[	**Cr**	**52**	**0.004**	ug/L	0.034	816	22079	25895	0	Standard
[	**Cr**	**53**	**0.271**	ug/L	0.005	1	310	1160	3	Standard
[	**Mn**	**55**	**21.246**	ug/L	0.663	3	827	794378	1	Standard
[>	**Ge**	**72**		ug/L			49780	43349	1	KED
[	**Co**	**59**	**0.010**	ug/L	0.001	9	5	55	7	KED
[	**Ni**	**60**	**0.175**	ug/L	0.019	10	567	763	3	KED
[	**Ni**	**62**	**0.156**	ug/L	0.053	33	92	120	11	KED
[	**Cu**	**63**	**0.045**	ug/L	0.002	4	100	285	1	KED
[	**Cu**	**65**	**0.070**	ug/L	0.003	4	55	198	4	KED
[	**Zn**	**66**	**0.168**	ug/L	0.020	11	106	188	6	KED
[	**Zn**	**67**	**20.324**	ug/L	0.294	1	21	1901	1	KED
[	**As**	**75**	**0.453**	ug/L	0.018	4	3	140	2	KED
[	**Se**	**78**	**0.040**	ug/L	0.125	312	22	20	18	KED
	Y	**89**		ug/L			354399	333957	1	Standard
	Kr	**83**		ug/L			49	45	9	Standard
[>	**In-1**	**115**		ug/L			10030	8841	3	KED
[	**Mo**	**98**	**0.343**	ug/L	0.023	6	10	458	6	KED
[	**Cd**	**111**	**0.012**	ug/L	0.003	27	3	6	14	KED
[	**Cd**	**114**	**-0.003**	ug/L	0.012	390	3	0	1080	KED
[>	**In**	**115**		ug/L			458222	404085	2	Standard
[	**Ag**	**107**	**0.000**	ug/L	0.000	933	35	31	12	Standard
[	**Sb**	**121**	**-0.008**	ug/L	0.001	9	294	149	8	Standard
[	**Sb**	**123**	**-0.011**	ug/L	0.002	14	255	111	13	Standard
[	**Ba**	**135**	**345.916**	ug/L	3.958	1	50	1488664	3	Standard
[	**Ba**	**137**	**388.966**	ug/L	6.631	1	86	2929083	3	Standard
[>	**Tb**	**159**		ug/L			831384	815881	1	Standard
[	**Tl**	**205**	**-0.002**	ug/L	0.000	12	89	34	20	Standard
[	**Pb**	**208**	**-0.001**	ug/L	0.000	52	317	284	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0512-05
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 04:15:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			466192	457939	4	Standard
[	**Be**	**9**	**0.000**	ug/L	0.001	220	3	5	57	Standard
	C	**13**		ug/L			30091	59673	1	Standard
	Cl	**37**		ug/L			1714867	1325993	2	Standard
[>	**Sc**	**45**		ug/L			612814	645342	6	Standard
[	**V**	**51**	**0.011**	ug/L	0.005	42	7424	8115	4	Standard
[	**V-1**	**51**	**0.059**	ug/L	0.005	8	593	2288	4	Standard
[	**Cr**	**52**	**0.125**	ug/L	0.022	17	22079	26134	5	Standard
[	**Cr**	**53**	**0.288**	ug/L	0.017	5	310	1089	2	Standard
[	**Mn**	**55**	**5.903**	ug/L	0.256	4	827	199247	2	Standard
[>	**Ge**	**72**		ug/L			49780	45325	1	KED
[	**Co**	**59**	**0.003**	ug/L	0.001	42	5	23	33	KED
[	**Ni**	**60**	**-0.260**	ug/L	0.008	3	567	97	11	KED
[	**Ni**	**62**	**-0.228**	ug/L	0.061	26	92	24	65	KED
[	**Cu**	**63**	**0.244**	ug/L	0.019	7	100	1201	6	KED
[	**Cu**	**65**	**0.240**	ug/L	0.011	4	55	586	2	KED
[	**Zn**	**66**	**0.332**	ug/L	0.042	12	106	295	8	KED
[	**Zn**	**67**	**2.452**	ug/L	0.158	6	21	257	6	KED
[	**As**	**75**	**0.151**	ug/L	0.009	5	3	51	4	KED
[	**Se**	**78**	**0.081**	ug/L	0.168	208	22	22	23	KED
	Y	**89**		ug/L			354399	340565	5	Standard
	Kr	**83**		ug/L			49	41	25	Standard
[>	**In-1**	**115**		ug/L			10030	9823	3	KED
[	**Mo**	**98**	**1.115**	ug/L	0.060	5	10	1631	2	KED
[	**Cd**	**111**	**0.004**	ug/L	0.011	244	3	5	65	KED
[	**Cd**	**114**	**0.006**	ug/L	0.004	72	3	7	37	KED
[>	**In**	**115**		ug/L			458222	416838	5	Standard
[	**Ag**	**107**	**-0.000**	ug/L	0.000	97	35	24	27	Standard
[	**Sb**	**121**	**-0.008**	ug/L	0.002	19	294	157	7	Standard
[	**Sb**	**123**	**-0.010**	ug/L	0.002	16	255	129	18	Standard
[	**Ba**	**135**	**34.325**	ug/L	0.915	2	50	152405	6	Standard
[	**Ba**	**137**	**35.987**	ug/L	0.912	2	86	279584	6	Standard
[>	**Tb**	**159**		ug/L			831384	807539	3	Standard
[	**Tl**	**205**	**-0.001**	ug/L	0.000	7	89	36	9	Standard
[	**Pb**	**208**	**0.009**	ug/L	0.001	8	317	702	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0512-06
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 04:20:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			466192	473854	1	Standard
	Be	**9**	**0.015**	ug/L	0.001	7	3	62	8	Standard
	C	**13**		ug/L			30091	66337	1	Standard
	Cl	**37**		ug/L			1714867	1336727	2	Standard
>	**Sc**	**45**		ug/L			612814	681566	0	Standard
	V	**51**	**0.303**	ug/L	0.011	3	7424	17270	1	Standard
	V-1	**51**	**0.320**	ug/L	0.010	3	593	10208	3	Standard
	Cr	**52**	**0.163**	ug/L	0.019	11	22079	28530	1	Standard
	Cr	**53**	**0.221**	ug/L	0.016	7	310	965	5	Standard
	Mn	**55**	**175.258**	ug/L	4.550	2	827	6232878	2	Standard
>	**Ge**	**72**		ug/L			49780	42147	2	KED
	Co	**59**	**0.344**	ug/L	0.010	2	5	1813	1	KED
	Ni	**60**	**0.071**	ug/L	0.022	30	567	587	8	KED
	Ni	**62**	**0.021**	ug/L	0.095	451	92	83	24	KED
	Cu	**63**	**0.035**	ug/L	0.006	17	100	233	13	KED
	Cu	**65**	**0.069**	ug/L	0.005	6	55	190	4	KED
	Zn	**66**	**0.242**	ug/L	0.058	23	106	224	15	KED
	Zn	**67**	**22.912**	ug/L	0.111	0	21	2081	2	KED
	As	**75**	**0.036**	ug/L	0.014	39	3	13	32	KED
	Se	**78**	**0.035**	ug/L	0.114	326	22	19	18	KED
	Y	**89**		ug/L			354399	341213	2	Standard
	Kr	**83**		ug/L			49	75	8	Standard
>	**In-1**	**115**		ug/L			10030	9077	3	KED
	Mo	**98**	**0.023**	ug/L	0.005	21	10	41	20	KED
	Cd	**111**	**0.009**	ug/L	0.007	71	3	6	32	KED
	Cd	**114**	**0.002**	ug/L	0.003	135	3	4	43	KED
>	**In**	**115**		ug/L			458222	396918	1	Standard
	Ag	**107**	**0.001**	ug/L	0.000	38	35	48	14	Standard
	Sb	**121**	**-0.010**	ug/L	0.000	0	294	119	2	Standard
	Sb	**123**	**-0.013**	ug/L	0.002	17	255	86	26	Standard
	Ba	**135**	**404.122**	ug/L	3.629	0	50	1708161	2	Standard
	Ba	**137**	**445.388**	ug/L	12.525	2	86	3294354	3	Standard
>	**Tb**	**159**		ug/L			831384	801754	1	Standard
	Tl	**205**	**-0.002**	ug/L	0.000	13	89	26	30	Standard
	Pb	**208**	**-0.002**	ug/L	0.001	42	317	233	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0067-DUP4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 04:25:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			466192	475373	4	Standard
	Be	**9**	**0.016**	ug/L	0.002	15	3	65	18	Standard
	C	**13**		ug/L			30091	69787	1	Standard
	Cl	**37**		ug/L			1714867	1357579	2	Standard
>	**Sc**	**45**		ug/L			612814	701215	2	Standard
	V	**51**	**0.292**	ug/L	0.001	0	7424	17428	2	Standard
	V-1	**51**	**0.304**	ug/L	0.006	1	593	10011	2	Standard
	Cr	**52**	**0.212**	ug/L	0.019	8	22079	30578	1	Standard
	Cr	**53**	**0.253**	ug/L	0.020	7	310	1083	3	Standard
	Mn	**55**	**174.474**	ug/L	2.020	1	827	6382402	1	Standard
>	**Ge**	**72**		ug/L			49780	40923	2	KED
	Co	**59**	**0.356**	ug/L	0.007	2	5	1823	2	KED
	Ni	**60**	**-0.011**	ug/L	0.027	238	567	450	8	KED
	Ni	**62**	**-0.021**	ug/L	0.040	189	92	71	13	KED
	Cu	**63**	**0.071**	ug/L	0.006	7	100	376	8	KED
	Cu	**65**	**0.122**	ug/L	0.018	14	55	292	13	KED
	Zn	**66**	**0.359**	ug/L	0.013	3	106	281	0	KED
	Zn	**67**	**24.846**	ug/L	1.240	4	21	2189	4	KED
	As	**75**	**0.035**	ug/L	0.005	14	3	13	12	KED
	Se	**78**	**0.181**	ug/L	0.091	50	22	23	11	KED
	Y	**89**		ug/L			354399	343665	1	Standard
	Kr	**83**		ug/L			49	75	6	Standard
>	**In-1**	**115**		ug/L			10030	8989	2	KED
	Mo	**98**	**0.026**	ug/L	0.006	25	10	43	18	KED
	Cd	**111**	**0.013**	ug/L	0.004	29	3	6	15	KED
	Cd	**114**	**0.008**	ug/L	0.006	84	3	8	52	KED
>	**In**	**115**		ug/L			458222	395701	2	Standard
	Ag	**107**	**0.001**	ug/L	0.001	42	35	53	20	Standard
	Sb	**121**	**-0.010**	ug/L	0.001	8	294	118	9	Standard
	Sb	**123**	**-0.012**	ug/L	0.001	6	255	94	11	Standard
	Ba	**135**	**399.858**	ug/L	8.015	2	50	1684337	1	Standard
	Ba	**137**	**444.311**	ug/L	8.911	2	86	3274911	0	Standard
>	**Tb**	**159**		ug/L			831384	796043	2	Standard
	Tl	**205**	**-0.002**	ug/L	0.000	6	89	22	16	Standard
	Pb	**208**	**0.003**	ug/L	0.001	26	317	429	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0067-MS4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 04:30:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			466192	447006	4	Standard
[	**Be**	**9**	**24.525**	ug/L	0.371	1	3	89808	3	Standard
	C	**13**		ug/L			30091	68755	1	Standard
	Cl	**37**		ug/L			1714867	1305458	1	Standard
[>	**Sc**	**45**		ug/L			612814	679058	3	Standard
[	**V**	**51**	**22.511**	ug/L	0.323	1	7424	674546	3	Standard
[	**V-1**	**51**	**22.765**	ug/L	0.397	1	593	677273	3	Standard
[	**Cr**	**52**	**22.119**	ug/L	0.291	1	22079	563358	4	Standard
[	**Cr**	**53**	**22.990**	ug/L	0.222	0	310	64531	3	Standard
[	**Mn**	**55**	**198.462**	ug/L	3.816	1	827	7029543	2	Standard
[>	**Ge**	**72**		ug/L			49780	42587	2	KED
[	**Co**	**59**	**28.292**	ug/L	0.180	0	5	150299	2	KED
[	**Ni**	**60**	**27.161**	ug/L	0.292	1	567	41608	1	KED
[	**Ni**	**62**	**26.808**	ug/L	0.377	1	92	6731	3	KED
[	**Cu**	**63**	**25.958**	ug/L	0.071	0	100	111137	2	KED
[	**Cu**	**65**	**26.414**	ug/L	0.364	1	55	55460	1	KED
[	**Zn**	**66**	**78.074**	ug/L	1.573	2	106	43872	2	KED
[	**Zn**	**67**	**97.376**	ug/L	2.486	2	21	8881	4	KED
[	**As**	**75**	**26.194**	ug/L	0.216	0	3	7849	3	KED
[	**Se**	**78**	**81.466**	ug/L	1.154	1	22	2287	4	KED
	Y	**89**		ug/L			354399	342283	4	Standard
	Kr	**83**		ug/L			49	93	22	Standard
[>	**In-1**	**115**		ug/L			10030	9386	0	KED
[	**Mo**	**98**	**28.557**	ug/L	0.294	1	10	39730	1	KED
[	**Cd**	**111**	**25.613**	ug/L	0.071	0	3	7394	0	KED
[	**Cd**	**114**	**25.238**	ug/L	0.305	1	3	18670	1	KED
[>	**In**	**115**		ug/L			458222	385081	4	Standard
[	**Ag**	**107**	**25.347**	ug/L	0.108	0	35	398486	3	Standard
[	**Sb**	**121**	**25.938**	ug/L	0.570	2	294	335020	2	Standard
[	**Sb**	**123**	**25.991**	ug/L	0.809	3	255	256453	2	Standard
[	**Ba**	**135**	**410.339**	ug/L	7.644	1	50	1681680	2	Standard
[	**Ba**	**137**	**460.308**	ug/L	7.181	1	86	3301618	3	Standard
[>	**Tb**	**159**		ug/L			831384	767812	2	Standard
[	**Tl**	**205**	**24.505**	ug/L	0.337	1	89	800673	3	Standard
[	**Pb**	**208**	**23.589**	ug/L	0.332	1	317	1024901	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0067-MSD4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 04:37:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			466192	422401	2	Standard
⌊	**Be**	**9**	**24.386**	ug/L	0.354	1	3	84418	2	Standard
	C	**13**		ug/L			30091	67790	3	Standard
	Cl	**37**		ug/L			1714867	1330310	1	Standard
⌈>	**Sc**	**45**		ug/L			612814	655794	2	Standard
⌈	**V**	**51**	**22.116**	ug/L	0.580	2	7424	640101	1	Standard
⌊	**V-1**	**51**	**22.290**	ug/L	0.558	2	593	640439	1	Standard
⌈	**Cr**	**52**	**21.807**	ug/L	0.369	1	22079	536570	0	Standard
⌊	**Cr**	**53**	**22.404**	ug/L	0.313	1	310	60740	0	Standard
⌊	**Mn**	**55**	**201.934**	ug/L	5.043	2	827	6907365	0	Standard
⌈>	**Ge**	**72**		ug/L			49780	41069	1	KED
⌈	**Co**	**59**	**27.633**	ug/L	0.097	0	5	141571	1	KED
⌊	**Ni**	**60**	**26.728**	ug/L	0.149	0	567	39500	2	KED
⌈	**Ni**	**62**	**25.988**	ug/L	0.260	0	92	6294	1	KED
⌊	**Cu**	**63**	**25.580**	ug/L	0.372	1	100	105630	3	KED
⌈	**Cu**	**65**	**26.312**	ug/L	0.169	0	55	53286	1	KED
⌊	**Zn**	**66**	**76.831**	ug/L	0.396	0	106	41645	2	KED
⌈	**Zn**	**67**	**100.986**	ug/L	1.475	1	21	8878	1	KED
⌊	**As**	**75**	**26.173**	ug/L	0.092	0	3	7562	1	KED
⌊	**Se**	**78**	**79.144**	ug/L	0.936	1	22	2142	1	KED
	Y	**89**		ug/L			354399	330930	0	Standard
	Kr	**83**		ug/L			49	85	16	Standard
⌈>	**In-1**	**115**		ug/L			10030	9111	0	KED
⌈	**Mo**	**98**	**27.800**	ug/L	0.782	2	10	37539	2	KED
⌊	**Cd**	**111**	**25.299**	ug/L	0.550	2	3	7089	1	KED
⌊	**Cd**	**114**	**24.949**	ug/L	0.147	0	3	17914	0	KED
⌈>	**In**	**115**		ug/L			458222	367558	1	Standard
⌈	**Ag**	**107**	**25.498**	ug/L	0.623	2	35	382611	1	Standard
⌈	**Sb**	**121**	**25.721**	ug/L	0.153	0	294	317295	1	Standard
⌊	**Sb**	**123**	**25.802**	ug/L	0.635	2	255	243117	1	Standard
⌈	**Ba**	**135**	**413.800**	ug/L	7.062	1	50	1619334	1	Standard
⌊	**Ba**	**137**	**461.371**	ug/L	7.563	1	86	3159294	0	Standard
⌈>	**Tb**	**159**		ug/L			831384	745752	2	Standard
⌈	**Tl**	**205**	**23.544**	ug/L	0.286	1	89	747075	1	Standard
⌊	**Pb**	**208**	**22.959**	ug/L	0.788	3	317	968570	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLD
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 04:42:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			466192	438189	3	Standard
⌊	**Be**	**9**	**0.001**	ug/L	0.001	144	3	6	62	Standard
	C	**13**		ug/L			30091	28719	0	Standard
	Cl	**37**		ug/L			1714867	1744874	1	Standard
⌈>	**Sc**	**45**		ug/L			612814	605499	4	Standard
⌈	**V**	**51**	**0.021**	ug/L	0.009	42	7424	7883	3	Standard
⌊	**V-1**	**51**	**-0.006**	ug/L	0.001	23	593	439	5	Standard
⌈	**Cr**	**52**	**0.069**	ug/L	0.024	35	22079	23290	2	Standard
⌊	**Cr**	**53**	**-0.022**	ug/L	0.011	50	310	251	11	Standard
⌊	**Mn**	**55**	**0.003**	ug/L	0.002	67	827	925	3	Standard
⌈>	**Ge**	**72**		ug/L			49780	46735	0	KED
⌈	**Co**	**59**	**0.000**	ug/L	0.000	68	5	7	25	KED
⌊	**Ni**	**60**	**-0.313**	ug/L	0.002	0	567	13	24	KED
⌈	**Ni**	**62**	**-0.303**	ug/L	0.004	1	92	4	24	KED
⌊	**Cu**	**63**	**0.017**	ug/L	0.002	14	100	172	7	KED
⌈	**Cu**	**65**	**0.019**	ug/L	0.010	49	55	95	22	KED
⌊	**Zn**	**66**	**0.022**	ug/L	0.074	341	106	113	40	KED
⌈	**Zn**	**67**	**-0.018**	ug/L	0.030	163	21	18	15	KED
⌊	**As**	**75**	**0.005**	ug/L	0.002	46	3	4	14	KED
⌊	**Se**	**78**	**-0.016**	ug/L	0.130	836	22	20	18	KED
	Y	**89**		ug/L			354399	338870	3	Standard
	Kr	**83**		ug/L			49	46	25	Standard
⌈>	**In-1**	**115**		ug/L			10030	10333	1	KED
⌈	**Mo**	**98**	**0.006**	ug/L	0.005	80	10	20	37	KED
⌊	**Cd**	**111**	**0.013**	ug/L	0.010	82	3	7	42	KED
⌊	**Cd**	**114**	**0.011**	ug/L	0.009	80	3	12	57	KED
⌈>	**In**	**115**		ug/L			458222	415139	3	Standard
⌈	**Ag**	**107**	**0.001**	ug/L	0.000	60	35	41	16	Standard
⌊	**Sb**	**121**	**-0.012**	ug/L	0.002	12	294	100	22	Standard
⌈	**Sb**	**123**	**-0.014**	ug/L	0.001	8	255	77	14	Standard
⌊	**Ba**	**135**	**0.028**	ug/L	0.002	8	50	169	8	Standard
⌊	**Ba**	**137**	**0.026**	ug/L	0.002	7	86	280	6	Standard
⌈>	**Tb**	**159**		ug/L			831384	779653	2	Standard
⌈	**Tl**	**205**	**-0.001**	ug/L	0.000	36	89	59	17	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.001	48	317	373	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 04:47:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			466192	407254	3	Standard
	Be	**9**	**52.209**	ug/L	2.287	4	3	174289	6	Standard
	C	**13**		ug/L			30091	28173	4	Standard
	Cl	**37**		ug/L			1714867	1691306	1	Standard
>	**Sc**	**45**		ug/L			612814	574846	4	Standard
	V	**51**	**48.125**	ug/L	1.028	2	7424	1212356	2	Standard
	V-1	**51**	**48.513**	ug/L	1.107	2	593	1220739	2	Standard
	Cr	**52**	**48.984**	ug/L	0.667	1	22079	1030484	3	Standard
	Cr	**53**	**50.295**	ug/L	0.852	1	310	119125	3	Standard
	Mn	**55**	**49.294**	ug/L	0.944	1	827	1479764	6	Standard
>	**Ge**	**72**		ug/L			49780	48487	2	KED
	Co	**59**	**50.294**	ug/L	1.158	2	5	304101	0	KED
	Ni	**60**	**50.815**	ug/L	1.049	2	567	88144	2	KED
	Ni	**62**	**50.127**	ug/L	0.631	1	92	14252	3	KED
	Cu	**63**	**49.849**	ug/L	0.800	1	100	242832	1	KED
	Cu	**65**	**51.280**	ug/L	0.454	0	55	122579	3	KED
	Zn	**66**	**50.397**	ug/L	0.939	1	106	32277	1	KED
	Zn	**67**	**49.991**	ug/L	0.720	1	21	5200	3	KED
	As	**75**	**49.315**	ug/L	0.647	1	3	16817	1	KED
	Se	**78**	**49.429**	ug/L	1.378	2	22	1587	0	KED
	Y	**89**		ug/L			354399	336750	3	Standard
	Kr	**83**		ug/L			49	39	22	Standard
>	**In-1**	**115**		ug/L			10030	9663	5	KED
	Mo	**98**	**52.413**	ug/L	0.493	0	10	75029	4	KED
	Cd	**111**	**51.207**	ug/L	0.759	1	3	15223	6	KED
	Cd	**114**	**51.319**	ug/L	0.626	1	3	39060	4	KED
>	**In**	**115**		ug/L			458222	396929	4	Standard
	Ag	**107**	**51.653**	ug/L	0.883	1	35	836820	3	Standard
	Sb	**121**	**48.918**	ug/L	1.374	2	294	650816	2	Standard
	Sb	**123**	**49.867**	ug/L	0.675	1	255	507095	3	Standard
	Ba	**135**	**49.302**	ug/L	0.764	1	50	208366	4	Standard
	Ba	**137**	**50.648**	ug/L	0.970	1	86	374522	4	Standard
>	**Tb**	**159**		ug/L			831384	782066	3	Standard
	Tl	**205**	**47.470**	ug/L	1.244	2	89	1579553	4	Standard
	Pb	**208**	**47.856**	ug/L	0.430	0	317	2118087	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 04:55:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			466192	433930	4	Standard
	Be	**9**	**0.001**	ug/L	0.002	195	3	6	86	Standard
	C	**13**		ug/L			30091	28027	0	Standard
	Cl	**37**		ug/L			1714867	1760633	2	Standard
>	**Sc**	**45**		ug/L			612814	600874	3	Standard
	V	**51**	**0.014**	ug/L	0.006	39	7424	7650	1	Standard
	V-1	**51**	**-0.007**	ug/L	0.000	1	593	389	3	Standard
	Cr	**52**	**0.047**	ug/L	0.007	15	22079	22648	2	Standard
	Cr	**53**	**-0.027**	ug/L	0.012	43	310	237	15	Standard
	Mn	**55**	**0.000**	ug/L	0.001	486	827	820	6	Standard
>	**Ge**	**72**		ug/L			49780	47601	2	KED
	Co	**59**	**-0.000**	ug/L	0.001	816	5	4	89	KED
	Ni	**60**	**-0.307**	ug/L	0.003	1	567	22	22	KED
	Ni	**62**	**-0.301**	ug/L	0.010	3	92	5	57	KED
	Cu	**63**	**0.006**	ug/L	0.002	38	100	125	5	KED
	Cu	**65**	**0.003**	ug/L	0.005	138	55	60	19	KED
	Zn	**66**	**0.067**	ug/L	0.031	45	106	144	13	KED
	Zn	**67**	**0.078**	ug/L	0.031	39	21	28	11	KED
	As	**75**	**0.010**	ug/L	0.004	42	3	6	18	KED
	Se	**78**	**-0.048**	ug/L	0.076	157	22	19	8	KED
	Y	**89**		ug/L			354399	342381	5	Standard
	Kr	**83**		ug/L			49	43	9	Standard
>	**In-1**	**115**		ug/L			10030	9547	3	KED
	Mo	**98**	**0.009**	ug/L	0.002	24	10	22	14	KED
	Cd	**111**	**0.006**	ug/L	0.010	174	3	5	56	KED
	Cd	**114**	**0.009**	ug/L	0.011	123	3	9	79	KED
>	**In**	**115**		ug/L			458222	412559	6	Standard
	Ag	**107**	**0.002**	ug/L	0.001	37	35	57	18	Standard
	Sb	**121**	**0.037**	ug/L	0.004	10	294	775	5	Standard
	Sb	**123**	**0.033**	ug/L	0.001	4	255	582	3	Standard
	Ba	**135**	**0.012**	ug/L	0.004	38	50	95	13	Standard
	Ba	**137**	**0.010**	ug/L	0.002	24	86	156	18	Standard
>	**Tb**	**159**		ug/L			831384	778048	3	Standard
	Tl	**205**	**0.000**	ug/L	0.000	288	89	88	13	Standard
	Pb	**208**	**-0.000**	ug/L	0.000	48	317	278	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0678-02
Sample Dil Factor: 5
Comments:
Sample Date/Time: Wednesday, April 26, 2023 05:00:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			466192	404821	4	Standard
	Be	9	0.022	ug/L	0.004	16	3	75	20	Standard
	C	13		ug/L			30091	78130	1	Standard
	Cl	37		ug/L			1714867	1423591	2	Standard
>	Sc	45		ug/L			612814	610236	3	Standard
	V	51	17.783	ug/L	0.777	4	7424	480802	6	Standard
	V-1	51	17.781	ug/L	0.761	4	593	475901	6	Standard
	Cr	52	2.506	ug/L	0.089	3	22079	76866	5	Standard
	Cr	53	2.713	ug/L	0.045	1	310	7118	4	Standard
	Mn	55	6.271	ug/L	0.284	4	827	200596	7	Standard
>	Ge	72		ug/L			49780	45062	2	KED
	Co	59	0.408	ug/L	0.019	4	5	2299	4	KED
	Ni	60	3.730	ug/L	0.169	4	567	6485	2	KED
	Ni	62	3.582	ug/L	0.121	3	92	1024	5	KED
	Cu	63	2.755	ug/L	0.090	3	100	12554	0	KED
	Cu	65	2.824	ug/L	0.187	6	55	6313	4	KED
	Zn	66	5.240	ug/L	0.009	0	106	3206	2	KED
	Zn	67	5.682	ug/L	0.458	8	21	566	9	KED
	As	75	4.426	ug/L	0.136	3	3	1405	2	KED
	Se	78	0.239	ug/L	0.064	26	22	27	5	KED
	Y	89		ug/L			354399	353800	3	Standard
	Kr	83		ug/L			49	51	20	Standard
>	In-1	115		ug/L			10030	8770	13	KED
	Mo	98	1.543	ug/L	0.155	10	10	1996	5	KED
	Cd	111	0.042	ug/L	0.007	15	3	14	3	KED
	Cd	114	0.017	ug/L	0.011	64	3	15	54	KED
>	In	115		ug/L			458222	392730	3	Standard
	Ag	107	0.020	ug/L	0.001	6	35	356	6	Standard
	Sb	121	0.819	ug/L	0.026	3	294	11048	5	Standard
	Sb	123	0.837	ug/L	0.012	1	255	8639	2	Standard
	Ba	135	2.826	ug/L	0.031	1	50	11859	2	Standard
	Ba	137	2.924	ug/L	0.104	3	86	21489	7	Standard
>	Tb	159		ug/L			831384	761211	4	Standard
	Tl	205	0.000	ug/L	0.000	197	89	85	11	Standard
	Pb	208	7.047	ug/L	0.063	0	317	303873	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0678-12
Sample Dil Factor: 5
Comments:
Sample Date/Time: Wednesday, April 26, 2023 05:05:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			466192	420595	8	Standard
	Be	9	0.016	ug/L	0.003	16	3	56	10	Standard
	C	13		ug/L			30091	43112	4	Standard
	Cl	37		ug/L			1714867	1443547	0	Standard
>	Sc	45		ug/L			612814	649777	7	Standard
	V	51	1.322	ug/L	0.015	1	7424	45331	7	Standard
	V-1	51	1.380	ug/L	0.013	0	593	39910	8	Standard
	Cr	52	1.238	ug/L	0.079	6	22079	52216	6	Standard
	Cr	53	1.436	ug/L	0.019	1	310	4166	8	Standard
	Mn	55	141.961	ug/L	0.910	0	827	4812727	7	Standard
>	Ge	72		ug/L			49780	44537	2	KED
	Co	59	0.092	ug/L	0.007	7	5	513	4	KED
	Ni	60	0.131	ug/L	0.018	13	567	715	2	KED
	Ni	62	0.127	ug/L	0.046	36	92	116	13	KED
	Cu	63	0.059	ug/L	0.005	9	100	356	9	KED
	Cu	65	0.065	ug/L	0.000	0	55	192	2	KED
	Zn	66	0.510	ug/L	0.046	9	106	394	4	KED
	Zn	67	0.776	ug/L	0.113	14	21	93	14	KED
	As	75	0.161	ug/L	0.031	18	3	53	16	KED
	Se	78	0.160	ug/L	0.104	64	22	24	10	KED
	Y	89		ug/L			354399	350448	4	Standard
	Kr	83		ug/L			49	50	33	Standard
>	In-1	115		ug/L			10030	9721	2	KED
	Mo	98	0.145	ug/L	0.016	10	10	218	8	KED
	Cd	111	0.006	ug/L	0.002	38	3	5	10	KED
	Cd	114	-0.003	ug/L	0.004	143	3	1	183	KED
>	In	115		ug/L			458222	401774	5	Standard
	Ag	107	0.003	ug/L	0.001	25	35	76	19	Standard
	Sb	121	0.048	ug/L	0.004	8	294	902	9	Standard
	Sb	123	0.042	ug/L	0.005	10	255	661	11	Standard
	Ba	135	5.512	ug/L	0.059	1	50	23634	6	Standard
	Ba	137	5.674	ug/L	0.024	0	86	42554	5	Standard
>	Tb	159		ug/L			831384	765571	6	Standard
	Tl	205	-0.001	ug/L	0.000	8	89	39	14	Standard
	Pb	208	0.067	ug/L	0.002	2	317	3183	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0678-13
Sample Dil Factor: 5
Comments:
Sample Date/Time: Wednesday, April 26, 2023 05:10:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	Li	6		ug/L			466192	415566	1	Standard
[	Be	9	0.011	ug/L	0.006	51	3	42	48	Standard
	C	13		ug/L			30091	41533	2	Standard
	Cl	37		ug/L			1714867	1465810	1	Standard
[>	Sc	45		ug/L			612814	645111	5	Standard
[	V	51	1.208	ug/L	0.032	2	7424	41763	3	Standard
[	V-1	51	1.258	ug/L	0.041	3	593	36123	3	Standard
[	Cr	52	1.022	ug/L	0.039	3	22079	46862	3	Standard
[	Cr	53	1.195	ug/L	0.064	5	310	3491	3	Standard
[	Mn	55	141.462	ug/L	3.422	2	827	4759526	4	Standard
[>	Ge	72		ug/L			49780	43484	2	KED
[	Co	59	0.110	ug/L	0.007	6	5	602	4	KED
[	Ni	60	0.102	ug/L	0.036	35	567	653	9	KED
[	Ni	62	0.122	ug/L	0.087	71	92	111	19	KED
[	Cu	63	0.067	ug/L	0.010	14	100	378	9	KED
[	Cu	65	0.072	ug/L	0.008	11	55	201	6	KED
[	Zn	66	0.176	ug/L	0.033	18	106	194	11	KED
[	Zn	67	0.577	ug/L	0.111	19	21	72	13	KED
[	As	75	0.171	ug/L	0.015	8	3	55	8	KED
[	Se	78	0.103	ug/L	0.093	90	22	22	12	KED
	Y	89		ug/L			354399	355772	3	Standard
	Kr	83		ug/L			49	56	30	Standard
[>	In-1	115		ug/L			10030	9578	1	KED
[	Mo	98	0.118	ug/L	0.006	5	10	177	5	KED
[	Cd	111	0.002	ug/L	0.005	299	3	4	35	KED
[	Cd	114	-0.001	ug/L	0.002	130	3	2	60	KED
[>	In	115		ug/L			458222	402190	6	Standard
[	Ag	107	0.001	ug/L	0.000	25	35	53	14	Standard
[	Sb	121	0.068	ug/L	0.001	1	294	1172	5	Standard
[	Sb	123	0.066	ug/L	0.010	15	255	900	7	Standard
[	Ba	135	5.548	ug/L	0.084	1	50	23792	4	Standard
[	Ba	137	5.726	ug/L	0.102	1	86	42959	4	Standard
[>	Tb	159		ug/L			831384	774549	3	Standard
[	Tl	205	-0.001	ug/L	0.000	12	89	34	16	Standard
[	Pb	208	0.053	ug/L	0.001	1	317	2608	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0678-18
Sample Dil Factor: 10
Comments:
Sample Date/Time: Wednesday, April 26, 2023 05:16:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			466192	388654	1	Standard
	Be	9	0.016	ug/L	0.002	12	3	54	10	Standard
	C	13		ug/L			30091	60159	4	Standard
	Cl	37		ug/L			1714867	1577266	2	Standard
>	Sc	45		ug/L			612814	579487	2	Standard
	V	51	9.758	ug/L	0.243	2	7424	253454	0	Standard
	V-1	51	9.743	ug/L	0.236	2	593	247658	0	Standard
	Cr	52	2.468	ug/L	0.039	1	22079	72181	1	Standard
	Cr	53	2.522	ug/L	0.028	1	310	6302	2	Standard
	Mn	55	5.116	ug/L	0.069	1	827	155441	1	Standard
>	Ge	72		ug/L			49780	46005	1	KED
	Co	59	0.305	ug/L	0.002	0	5	1756	1	KED
	Ni	60	2.182	ug/L	0.125	5	567	4093	5	KED
	Ni	62	2.303	ug/L	0.165	7	92	702	6	KED
	Cu	63	3.313	ug/L	0.038	1	100	15406	2	KED
	Cu	65	3.416	ug/L	0.062	1	55	7793	1	KED
	Zn	66	4.489	ug/L	0.059	1	106	2818	1	KED
	Zn	67	4.401	ug/L	0.249	5	21	452	6	KED
	As	75	2.540	ug/L	0.039	1	3	825	0	KED
	Se	78	0.255	ug/L	0.071	27	22	28	7	KED
	Y	89		ug/L			354399	337138	1	Standard
	Kr	83		ug/L			49	57	12	Standard
>	In-1	115		ug/L			10030	10057	0	KED
	Mo	98	1.356	ug/L	0.049	3	10	2031	4	KED
	Cd	111	0.027	ug/L	0.013	48	3	12	32	KED
	Cd	114	0.018	ug/L	0.005	25	3	17	19	KED
>	In	115		ug/L			458222	381598	1	Standard
	Ag	107	0.017	ug/L	0.001	6	35	292	6	Standard
	Sb	121	0.609	ug/L	0.012	1	294	8033	0	Standard
	Sb	123	0.573	ug/L	0.014	2	255	5815	0	Standard
	Ba	135	2.000	ug/L	0.036	1	50	8171	3	Standard
	Ba	137	2.081	ug/L	0.034	1	86	14870	3	Standard
>	Tb	159		ug/L			831384	736467	0	Standard
	Tl	205	-0.000	ug/L	0.000	120	89	67	20	Standard
	Pb	208	6.270	ug/L	0.057	0	317	261574	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 05:21:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			466192	399407	1	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.001	347	3	3	50	Standard
	C	**13**		ug/L			30091	27058	1	Standard
	Cl	**37**		ug/L			1714867	1750750	2	Standard
⌈>	**Sc**	**45**		ug/L			612814	573449	2	Standard
⌈	**V**	**51**	**0.006**	ug/L	0.004	55	7424	7108	2	Standard
⌊	**V-1**	**51**	**-0.004**	ug/L	0.001	22	593	451	7	Standard
⌈	**Cr**	**52**	**0.020**	ug/L	0.022	110	22079	21066	2	Standard
⌊	**Cr**	**53**	**-0.017**	ug/L	0.010	61	310	251	9	Standard
⌊	**Mn**	**55**	**-0.002**	ug/L	0.000	4	827	708	2	Standard
⌈>	**Ge**	**72**		ug/L			49780	45806	0	KED
⌈	**Co**	**59**	**-0.001**	ug/L	0.000	26	5	0	173	KED
⌊	**Ni**	**60**	**-0.312**	ug/L	0.003	1	567	13	37	KED
⌈	**Ni**	**62**	**-0.308**	ug/L	0.004	1	92	3	34	KED
⌈	**Cu**	**63**	**-0.005**	ug/L	0.001	14	100	69	5	KED
⌊	**Cu**	**65**	**-0.002**	ug/L	0.001	46	55	46	4	KED
⌈	**Zn**	**66**	**-0.098**	ug/L	0.011	11	106	38	17	KED
⌊	**Zn**	**67**	**-0.164**	ug/L	0.034	20	21	3	86	KED
⌈	**As**	**75**	**0.003**	ug/L	0.005	153	3	4	38	KED
⌊	**Se**	**78**	**0.044**	ug/L	0.112	251	22	21	15	KED
	Y	**89**		ug/L			354399	325460	1	Standard
	Kr	**83**		ug/L			49	42	15	Standard
⌈>	**In-1**	**115**		ug/L			10030	9587	1	KED
⌈	**Mo**	**98**	**-0.002**	ug/L	0.003	111	10	6	50	KED
⌊	**Cd**	**111**	**0.006**	ug/L	0.008	138	3	5	44	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.004	62	3	7	35	KED
⌈>	**In**	**115**		ug/L			458222	400374	1	Standard
⌈	**Ag**	**107**	**-0.000**	ug/L	0.000	24	35	25	4	Standard
⌈	**Sb**	**121**	**-0.014**	ug/L	0.001	5	294	74	11	Standard
⌊	**Sb**	**123**	**-0.017**	ug/L	0.000	1	255	51	5	Standard
⌈	**Ba**	**135**	**-0.001**	ug/L	0.003	249	50	38	34	Standard
⌊	**Ba**	**137**	**-0.002**	ug/L	0.002	86	86	62	17	Standard
⌈>	**Tb**	**159**		ug/L			831384	748808	0	Standard
⌈	**Tl**	**205**	**-0.002**	ug/L	0.000	5	89	25	11	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	13	317	146	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0678-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Wednesday, April 26, 2023 05:27:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			466192	387844	3	Standard
	Be	9	0.014	ug/L	0.003	21	3	46	20	Standard
	C	13		ug/L			30091	55674	0	Standard
	Cl	37		ug/L			1714867	1598966	2	Standard
>	Sc	45		ug/L			612814	573457	4	Standard
	V	51	9.071	ug/L	0.346	3	7424	233503	0	Standard
	V-1	51	9.035	ug/L	0.353	3	593	227155	0	Standard
	Cr	52	1.805	ug/L	0.068	3	22079	57763	1	Standard
	Cr	53	1.786	ug/L	0.096	5	310	4497	0	Standard
	Mn	55	3.884	ug/L	0.094	2	827	116911	2	Standard
>	Ge	72		ug/L			49780	45287	3	KED
	Co	59	0.211	ug/L	0.005	2	5	1196	2	KED
	Ni	60	2.061	ug/L	0.029	1	567	3834	2	KED
	Ni	62	2.001	ug/L	0.101	5	92	612	6	KED
	Cu	63	1.920	ug/L	0.090	4	100	8823	3	KED
	Cu	65	2.000	ug/L	0.075	3	55	4511	2	KED
	Zn	66	3.431	ug/L	0.197	5	106	2141	3	KED
	Zn	67	3.540	ug/L	0.170	4	21	361	2	KED
	As	75	2.294	ug/L	0.047	2	3	733	1	KED
	Se	78	0.113	ug/L	0.094	83	22	23	8	KED
	Y	89		ug/L			354399	331951	2	Standard
	Kr	83		ug/L			49	45	25	Standard
>	In-1	115		ug/L			10030	9071	3	KED
	Mo	98	0.901	ug/L	0.027	2	10	1219	1	KED
	Cd	111	0.036	ug/L	0.015	42	3	13	28	KED
	Cd	114	0.014	ug/L	0.006	45	3	13	37	KED
>	In	115		ug/L			458222	372918	3	Standard
	Ag	107	0.012	ug/L	0.002	12	35	219	12	Standard
	Sb	121	0.403	ug/L	0.008	2	294	5286	4	Standard
	Sb	123	0.404	ug/L	0.012	2	255	4064	1	Standard
	Ba	135	1.703	ug/L	0.035	2	50	6802	3	Standard
	Ba	137	1.756	ug/L	0.084	4	86	12261	1	Standard
>	Tb	159		ug/L			831384	731353	2	Standard
	Tl	205	-0.000	ug/L	0.000	65	89	63	13	Standard
	Pb	208	3.890	ug/L	0.111	2	317	161218	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0678-11
Sample Dil Factor: 10
Comments:
Sample Date/Time: Wednesday, April 26, 2023 05:31:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			466192	414418	2	Standard
	Be	9	0.012	ug/L	0.002	18	3	43	15	Standard
	C	13		ug/L			30091	50119	3	Standard
	Cl	37		ug/L			1714867	1490727	2	Standard
>	Sc	45		ug/L			612814	609410	3	Standard
	V	51	3.365	ug/L	0.093	2	7424	96726	1	Standard
	V-1	51	3.369	ug/L	0.074	2	593	90442	1	Standard
	Cr	52	3.761	ug/L	0.060	1	22079	104151	2	Standard
	Cr	53	3.771	ug/L	0.014	0	310	9759	3	Standard
	Mn	55	142.051	ug/L	2.658	1	827	4514971	1	Standard
>	Ge	72		ug/L			49780	44729	2	KED
	Co	59	0.069	ug/L	0.004	5	5	388	4	KED
	Ni	60	0.646	ug/L	0.015	2	567	1536	1	KED
	Ni	62	0.682	ug/L	0.022	3	92	260	2	KED
	Cu	63	0.143	ug/L	0.008	5	100	732	6	KED
	Cu	65	0.153	ug/L	0.020	12	55	387	13	KED
	Zn	66	0.635	ug/L	0.052	8	106	469	7	KED
	Zn	67	0.787	ug/L	0.083	10	21	94	8	KED
	As	75	0.266	ug/L	0.003	1	3	86	1	KED
	Se	78	0.310	ug/L	0.117	37	22	29	10	KED
	Y	89		ug/L			354399	357476	3	Standard
	Kr	83		ug/L			49	55	39	Standard
>	In-1	115		ug/L			10030	9370	1	KED
	Mo	98	0.313	ug/L	0.024	7	10	443	5	KED
	Cd	111	-0.000	ug/L	0.007	5126	3	3	56	KED
	Cd	114	-0.030	ug/L	0.018	60	3	-18	71	KED
>	In	115		ug/L			458222	388199	1	Standard
	Ag	107	0.004	ug/L	0.001	22	35	86	15	Standard
	Sb	121	0.043	ug/L	0.004	9	294	810	6	Standard
	Sb	123	0.042	ug/L	0.006	13	255	633	7	Standard
	Ba	135	3.318	ug/L	0.101	3	50	13758	3	Standard
	Ba	137	3.507	ug/L	0.116	3	86	25443	3	Standard
>	Tb	159		ug/L			831384	770054	0	Standard
	Tl	205	-0.001	ug/L	0.001	51	89	41	51	Standard
	Pb	208	0.053	ug/L	0.002	3	317	2613	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0678-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, April 26, 2023 05:37:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			466192	427773	1	Standard
	Be	9	0.008	ug/L	0.002	24	3	29	20	Standard
	C	13		ug/L			30091	43711	1	Standard
	Cl	37		ug/L			1714867	1651898	2	Standard
>	Sc	45		ug/L			612814	625249	2	Standard
	V	51	1.738	ug/L	0.011	0	7424	54950	2	Standard
	V-1	51	1.762	ug/L	0.016	0	593	48838	3	Standard
	Cr	52	1.930	ug/L	0.056	2	22079	65802	1	Standard
	Cr	53	2.009	ug/L	0.042	2	310	5481	2	Standard
	Mn	55	75.311	ug/L	1.844	2	827	2456335	0	Standard
>	Ge	72		ug/L			49780	45967	1	KED
	Co	59	0.040	ug/L	0.006	15	5	236	15	KED
	Ni	60	0.168	ug/L	0.020	11	567	798	5	KED
	Ni	62	0.210	ug/L	0.043	20	92	141	6	KED
	Cu	63	0.103	ug/L	0.007	6	100	567	3	KED
	Cu	65	0.100	ug/L	0.020	19	55	276	15	KED
	Zn	66	0.354	ug/L	0.033	9	106	313	7	KED
	Zn	67	0.302	ug/L	0.142	46	21	49	26	KED
	As	75	0.138	ug/L	0.010	7	3	47	6	KED
	Se	78	0.045	ug/L	0.093	208	22	21	13	KED
	Y	89		ug/L			354399	363872	2	Standard
	Kr	83		ug/L			49	54	22	Standard
>	In-1	115		ug/L			10030	9405	1	KED
	Mo	98	0.144	ug/L	0.010	7	10	210	8	KED
	Cd	111	0.004	ug/L	0.006	156	3	4	40	KED
	Cd	114	-0.019	ug/L	0.013	66	3	-10	87	KED
>	In	115		ug/L			458222	407974	3	Standard
	Ag	107	0.002	ug/L	0.000	8	35	59	4	Standard
	Sb	121	0.018	ug/L	0.005	26	294	504	9	Standard
	Sb	123	0.015	ug/L	0.004	24	255	386	7	Standard
	Ba	135	1.790	ug/L	0.040	2	50	7817	1	Standard
	Ba	137	1.858	ug/L	0.080	4	86	14192	4	Standard
>	Tb	159		ug/L			831384	789714	2	Standard
	Tl	205	-0.002	ug/L	0.000	13	89	30	22	Standard
	Pb	208	0.041	ug/L	0.001	2	317	2149	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0678-17
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, April 26, 2023 05:43:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			466192	435080	1	Standard
	Be	9	0.005	ug/L	0.001	18	3	20	14	Standard
	C	13		ug/L			30091	50057	4	Standard
	Cl	37		ug/L			1714867	1691446	2	Standard
>	Sc	45		ug/L			612814	623753	0	Standard
	V	51	4.740	ug/L	0.113	2	7424	136485	3	Standard
	V-1	51	4.725	ug/L	0.132	2	593	129654	3	Standard
	Cr	52	1.137	ug/L	0.018	1	22079	47908	0	Standard
	Cr	53	1.135	ug/L	0.065	5	310	3228	5	Standard
	Mn	55	1.679	ug/L	0.021	1	827	55483	1	Standard
>	Ge	72		ug/L			49780	45913	2	KED
	Co	59	0.118	ug/L	0.005	4	5	680	6	KED
	Ni	60	0.728	ug/L	0.008	1	567	1712	2	KED
	Ni	62	0.779	ug/L	0.014	1	92	293	1	KED
	Cu	63	1.155	ug/L	0.031	2	100	5420	2	KED
	Cu	65	1.162	ug/L	0.037	3	55	2678	1	KED
	Zn	66	1.390	ug/L	0.012	0	106	939	2	KED
	Zn	67	1.332	ug/L	0.100	7	21	150	5	KED
	As	75	1.167	ug/L	0.015	1	3	380	1	KED
	Se	78	0.101	ug/L	0.080	79	22	23	10	KED
	Y	89		ug/L			354399	352554	1	Standard
	Kr	83		ug/L			49	48	26	Standard
>	In-1	115		ug/L			10030	10113	1	KED
	Mo	98	0.596	ug/L	0.008	1	10	903	0	KED
	Cd	111	0.021	ug/L	0.017	80	3	10	50	KED
	Cd	114	0.014	ug/L	0.006	45	3	14	35	KED
>	In	115		ug/L			458222	426824	2	Standard
	Ag	107	0.007	ug/L	0.000	3	35	146	2	Standard
	Sb	121	0.236	ug/L	0.005	2	294	3646	4	Standard
	Sb	123	0.230	ug/L	0.009	3	255	2754	5	Standard
	Ba	135	0.730	ug/L	0.036	4	50	3364	2	Standard
	Ba	137	0.771	ug/L	0.023	3	86	6207	2	Standard
>	Tb	159		ug/L			831384	793649	3	Standard
	Tl	205	-0.001	ug/L	0.001	41	89	38	52	Standard
	Pb	208	2.268	ug/L	0.056	2	317	102084	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLF
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 05:48:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			466192	417428	2	Standard
	Be	**9**	**-0.000**	ug/L	0.001	1427	3	3	91	Standard
	C	**13**		ug/L			30091	26907	1	Standard
	Cl	**37**		ug/L			1714867	1778984	1	Standard
>	**Sc**	**45**		ug/L			612814	585102	2	Standard
	V	**51**	**0.006**	ug/L	0.005	77	7424	7250	3	Standard
	V-1	**51**	**-0.005**	ug/L	0.001	13	593	433	4	Standard
	Cr	**52**	**0.015**	ug/L	0.008	52	22079	21398	3	Standard
	Cr	**53**	**-0.024**	ug/L	0.011	45	310	237	10	Standard
	Mn	**55**	**-0.003**	ug/L	0.001	26	827	688	1	Standard
>	**Ge**	**72**		ug/L			49780	45374	2	KED
	Co	**59**	**-0.000**	ug/L	0.001	135	5	2	114	KED
	Ni	**60**	**-0.314**	ug/L	0.001	0	567	11	16	KED
	Ni	**62**	**-0.303**	ug/L	0.009	2	92	4	49	KED
	Cu	**63**	**-0.002**	ug/L	0.003	155	100	83	14	KED
	Cu	**65**	**-0.008**	ug/L	0.006	68	55	32	38	KED
	Zn	**66**	**-0.076**	ug/L	0.015	19	106	52	18	KED
	Zn	**67**	**-0.111**	ug/L	0.043	38	21	8	44	KED
	As	**75**	**-0.003**	ug/L	0.002	55	3	2	24	KED
	Se	**78**	**-0.002**	ug/L	0.128	5889	22	20	18	KED
	Y	**89**		ug/L			354399	336572	0	Standard
	Kr	**83**		ug/L			49	52	14	Standard
>	**In-1**	**115**		ug/L			10030	9611	2	KED
	Mo	**98**	**-0.003**	ug/L	0.001	28	10	5	20	KED
	Cd	**111**	**0.014**	ug/L	0.014	105	3	7	54	KED
	Cd	**114**	**0.002**	ug/L	0.002	92	3	4	23	KED
>	**In**	**115**		ug/L			458222	422369	1	Standard
	Ag	**107**	**-0.001**	ug/L	0.000	29	35	22	14	Standard
	Sb	**121**	**-0.015**	ug/L	0.000	3	294	59	11	Standard
	Sb	**123**	**-0.018**	ug/L	0.001	7	255	42	31	Standard
	Ba	**135**	**-0.002**	ug/L	0.004	207	50	38	45	Standard
	Ba	**137**	**-0.003**	ug/L	0.003	90	86	53	40	Standard
>	**Tb**	**159**		ug/L			831384	782393	1	Standard
	Tl	**205**	**-0.002**	ug/L	0.000	8	89	23	20	Standard
	Pb	**208**	**-0.003**	ug/L	0.000	2	317	148	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 05:53:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			466192	425223	4	Standard
⌊	**Be**	**9**	**50.895**	ug/L	1.127	2	3	177237	2	Standard
	C	**13**		ug/L			30091	27844	6	Standard
	Cl	**37**		ug/L			1714867	1715617	1	Standard
⌈>	**Sc**	**45**		ug/L			612814	594886	1	Standard
⌈	**V**	**51**	**48.574**	ug/L	1.495	3	7424	1267304	4	Standard
⌊	**V-1**	**51**	**48.847**	ug/L	1.743	3	593	1273111	4	Standard
⌈	**Cr**	**52**	**48.872**	ug/L	0.959	1	22079	1064626	3	Standard
⌊	**Cr**	**53**	**49.797**	ug/L	1.891	3	310	122159	5	Standard
⌊	**Mn**	**55**	**49.139**	ug/L	1.625	3	827	1526236	4	Standard
⌈>	**Ge**	**72**		ug/L			49780	46020	5	KED
⌈	**Co**	**59**	**50.532**	ug/L	0.689	1	5	290006	4	KED
⌊	**Ni**	**60**	**51.694**	ug/L	1.170	2	567	85121	6	KED
⌈	**Ni**	**62**	**49.775**	ug/L	0.372	0	92	13432	5	KED
⌈	**Cu**	**63**	**50.596**	ug/L	1.172	2	100	233849	4	KED
⌊	**Cu**	**65**	**52.396**	ug/L	0.049	0	55	118859	5	KED
⌈	**Zn**	**66**	**50.886**	ug/L	1.105	2	106	30915	3	KED
⌊	**Zn**	**67**	**51.965**	ug/L	0.625	1	21	5129	5	KED
⌈	**As**	**75**	**50.806**	ug/L	0.842	1	3	16438	3	KED
⌊	**Se**	**78**	**50.495**	ug/L	1.796	3	22	1537	3	KED
	Y	**89**		ug/L			354399	337605	3	Standard
	Kr	**83**		ug/L			49	38	18	Standard
⌈>	**In-1**	**115**		ug/L			10030	10368	1	KED
⌈	**Mo**	**98**	**51.858**	ug/L	1.016	1	10	79664	0	KED
⌈	**Cd**	**111**	**51.024**	ug/L	0.498	0	3	16267	1	KED
⌊	**Cd**	**114**	**51.056**	ug/L	0.605	1	3	41712	1	KED
⌈>	**In**	**115**		ug/L			458222	410910	3	Standard
⌈	**Ag**	**107**	**51.004**	ug/L	0.881	1	35	855721	3	Standard
⌈	**Sb**	**121**	**48.497**	ug/L	0.368	0	294	668512	3	Standard
⌊	**Sb**	**123**	**49.156**	ug/L	0.661	1	255	517818	4	Standard
⌈	**Ba**	**135**	**51.647**	ug/L	0.893	1	50	226084	4	Standard
⌊	**Ba**	**137**	**51.325**	ug/L	2.004	3	86	393033	5	Standard
⌈>	**Tb**	**159**		ug/L			831384	791196	3	Standard
⌈	**Tl**	**205**	**49.046**	ug/L	0.570	1	89	1651050	3	Standard
⌊	**Pb**	**208**	**48.616**	ug/L	0.312	0	317	2176764	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 06:01:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			466192	406814	3	Standard
	Be	**9**	**0.000**	ug/L	0.001	380	3	3	50	Standard
	C	**13**		ug/L			30091	27509	2	Standard
	Cl	**37**		ug/L			1714867	1784250	2	Standard
>	**Sc**	**45**		ug/L			612814	571813	2	Standard
	V	**51**	**0.021**	ug/L	0.007	34	7424	7446	2	Standard
	V-1	**51**	**-0.007**	ug/L	0.001	8	593	385	6	Standard
	Cr	**52**	**0.069**	ug/L	0.020	29	22079	22007	1	Standard
	Cr	**53**	**-0.026**	ug/L	0.007	28	310	228	8	Standard
	Mn	**55**	**0.001**	ug/L	0.001	152	827	788	2	Standard
>	**Ge**	**72**		ug/L			49780	46496	3	KED
	Co	**59**	**-0.000**	ug/L	0.001	437	5	3	100	KED
	Ni	**60**	**-0.304**	ug/L	0.005	1	567	27	33	KED
	Ni	**62**	**-0.293**	ug/L	0.016	5	92	6	56	KED
	Cu	**63**	**0.003**	ug/L	0.005	139	100	110	23	KED
	Cu	**65**	**-0.001**	ug/L	0.007	504	55	48	28	KED
	Zn	**66**	**0.064**	ug/L	0.023	35	106	139	13	KED
	Zn	**67**	**-0.025**	ug/L	0.022	91	21	17	16	KED
	As	**75**	**0.007**	ug/L	0.002	23	3	5	13	KED
	Se	**78**	**0.044**	ug/L	0.204	463	22	22	24	KED
	Y	**89**		ug/L			354399	327930	3	Standard
	Kr	**83**		ug/L			49	45	12	Standard
>	**In-1**	**115**		ug/L			10030	10014	2	KED
	Mo	**98**	**0.010**	ug/L	0.010	96	10	25	57	KED
	Cd	**111**	**0.008**	ug/L	0.011	132	3	6	52	KED
	Cd	**114**	**0.004**	ug/L	0.009	229	3	6	108	KED
>	**In**	**115**		ug/L			458222	405546	6	Standard
	Ag	**107**	**0.001**	ug/L	0.000	81	35	41	16	Standard
	Sb	**121**	**0.035**	ug/L	0.005	13	294	731	9	Standard
	Sb	**123**	**0.038**	ug/L	0.002	6	255	625	8	Standard
	Ba	**135**	**0.008**	ug/L	0.004	44	50	81	24	Standard
	Ba	**137**	**0.013**	ug/L	0.001	10	86	176	8	Standard
>	**Tb**	**159**		ug/L			831384	768209	2	Standard
	Tl	**205**	**0.001**	ug/L	0.000	33	89	118	8	Standard
	Pb	**208**	**-0.000**	ug/L	0.000	55	317	273	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0085-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 06:06:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			466192	398147	0	Standard
	Be	9	0.011	ug/L	0.002	16	3	40	14	Standard
	C	13		ug/L			30091	62342	5	Standard
	Cl	37		ug/L			1714867	1958664	2	Standard
>	Sc	45		ug/L			612814	626140	0	Standard
	V	51	0.917	ug/L	0.016	1	7424	32612	0	Standard
	V-1	51	1.792	ug/L	0.027	1	593	49735	2	Standard
	Cr	52	1.114	ug/L	0.053	4	22079	47590	3	Standard
	Cr	53	4.091	ug/L	0.166	4	310	10853	4	Standard
	Mn	55	535.852	ug/L	15.312	2	827	17506843	3	Standard
>	Ge	72		ug/L			49780	43245	0	KED
	Co	59	1.654	ug/L	0.050	3	5	8927	3	KED
	Ni	60	2.462	ug/L	0.104	4	567	4280	4	KED
	Ni	62	2.373	ug/L	0.194	8	92	678	6	KED
	Cu	63	9.289	ug/L	0.178	1	100	40442	2	KED
	Cu	65	9.553	ug/L	0.174	1	55	20405	2	KED
	Zn	66	56.826	ug/L	1.431	2	106	32459	3	KED
	Zn	67	59.003	ug/L	1.718	2	21	5470	3	KED
	As	75	2.835	ug/L	0.090	3	3	865	3	KED
	Se	78	0.114	ug/L	0.099	86	22	22	13	KED
	Y	89		ug/L			354399	335199	2	Standard
	Kr	83		ug/L			49	92	5	Standard
>	In-1	115		ug/L			10030	9534	1	KED
	Mo	98	6.016	ug/L	0.088	1	10	8509	2	KED
	Cd	111	0.071	ug/L	0.027	37	3	24	33	KED
	Cd	114	0.077	ug/L	0.019	24	3	61	22	KED
>	In	115		ug/L			458222	380504	1	Standard
	Ag	107	0.038	ug/L	0.002	4	35	620	2	Standard
	Sb	121	1.319	ug/L	0.020	1	294	17083	2	Standard
	Sb	123	1.340	ug/L	0.006	0	255	13277	0	Standard
	Ba	135	88.088	ug/L	2.241	2	50	357009	3	Standard
	Ba	137	89.410	ug/L	1.380	1	86	634044	2	Standard
>	Tb	159		ug/L			831384	737839	1	Standard
	Tl	205	0.001	ug/L	0.001	39	89	121	15	Standard
	Pb	208	2.165	ug/L	0.048	2	317	90686	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0086-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, April 26, 2023 06:11:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	Li	6		ug/L			466192	425544	3	Standard
[	Be	9	0.009	ug/L	0.000	3	3	34	6	Standard
	C	13		ug/L			30091	552549	3	Standard
	Cl	37		ug/L			1714867	1696523	1	Standard
[>	Sc	45		ug/L			612814	620247	2	Standard
[	V	51	0.592	ug/L	0.016	2	7424	23522	3	Standard
[	V-1	51	0.121	ug/L	0.004	3	593	3881	5	Standard
[	Cr	52	3.335	ug/L	0.070	2	22079	96545	2	Standard
[	Cr	53	1.692	ug/L	0.032	1	310	4628	1	Standard
[	Mn	55	380.600	ug/L	10.748	2	827	12315304	3	Standard
[>	Ge	72		ug/L			49780	48594	0	KED
[	Co	59	601.526	ug/L	13.572	2	5	3646337	1	KED
[	Ni	60	3.735	ug/L	0.083	2	567	7007	1	KED
[	Ni	62	3.691	ug/L	0.081	2	92	1135	1	KED
[	Cu	63	3.179	ug/L	0.032	1	100	15614	1	KED
[	Cu	65	3.230	ug/L	0.037	1	55	7786	0	KED
[	Zn	66	184.040	ug/L	3.143	1	106	117876	1	KED
[	Zn	67	172.529	ug/L	2.922	1	21	17935	1	KED
[	As	75	0.056	ug/L	0.021	36	3	22	31	KED
[	Se	78	0.023	ug/L	0.132	587	22	22	19	KED
	Y	89		ug/L			354399	350353	0	Standard
	Kr	83		ug/L			49	73	22	Standard
[>	In-1	115		ug/L			10030	10128	1	KED
[	Mo	98	2.220	ug/L	0.039	1	10	3342	1	KED
[	Cd	111	0.005	ug/L	0.005	97	3	5	26	KED
[	Cd	114	0.004	ug/L	0.008	201	3	6	96	KED
[>	In	115		ug/L			458222	431322	4	Standard
[	Ag	107	0.185	ug/L	0.012	6	35	3293	2	Standard
[	Sb	121	0.061	ug/L	0.002	2	294	1154	4	Standard
[	Sb	123	0.054	ug/L	0.004	6	255	837	3	Standard
[	Ba	135	15.156	ug/L	0.827	5	50	69549	2	Standard
[	Ba	137	15.237	ug/L	0.449	2	86	122444	3	Standard
[>	Tb	159		ug/L			831384	798271	1	Standard
[	Tl	205	0.002	ug/L	0.000	17	89	153	8	Standard
[	Pb	208	0.358	ug/L	0.001	0	317	16485	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0062-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 06:17:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	Li	6		ug/L			466192	452560	1	Standard
[	Be	9	0.002	ug/L	0.001	34	3	9	20	Standard
	C	13		ug/L			30091	56349	4	Standard
	Cl	37		ug/L			1714867	1719312	1	Standard
[>	Sc	45		ug/L			612814	682135	1	Standard
[	V	51	0.342	ug/L	0.011	3	7424	18433	1	Standard
[	V-1	51	0.412	ug/L	0.007	1	593	12953	0	Standard
[	Cr	52	0.213	ug/L	0.012	5	22079	29799	1	Standard
[	Cr	53	0.452	ug/L	0.008	1	310	1614	1	Standard
[	Mn	55	3.329	ug/L	0.018	0	827	119395	1	Standard
[>	Ge	72		ug/L			49780	48089	2	KED
[	Co	59	0.025	ug/L	0.001	4	5	157	4	KED
[	Ni	60	-0.230	ug/L	0.016	6	567	155	19	KED
[	Ni	62	-0.216	ug/L	0.044	20	92	29	44	KED
[	Cu	63	0.094	ug/L	0.008	8	100	553	9	KED
[	Cu	65	0.081	ug/L	0.013	15	55	245	11	KED
[	Zn	66	0.670	ug/L	0.017	2	106	526	2	KED
[	Zn	67	0.715	ug/L	0.187	26	21	94	22	KED
[	As	75	0.212	ug/L	0.009	4	3	74	2	KED
[	Se	78	0.035	ug/L	0.064	179	22	22	6	KED
	Y	89		ug/L			354399	358547	0	Standard
	Kr	83		ug/L			49	46	4	Standard
[>	In-1	115		ug/L			10030	10258	0	KED
[	Mo	98	0.068	ug/L	0.001	2	10	113	1	KED
[	Cd	111	0.015	ug/L	0.011	73	3	8	40	KED
[	Cd	114	0.001	ug/L	0.003	513	3	4	54	KED
[>	In	115		ug/L			458222	446647	2	Standard
[	Ag	107	-0.000	ug/L	0.000	260	35	32	20	Standard
[	Sb	121	0.011	ug/L	0.003	27	294	452	7	Standard
[	Sb	123	0.007	ug/L	0.003	45	255	331	9	Standard
[	Ba	135	1.121	ug/L	0.031	2	50	5381	3	Standard
[	Ba	137	1.142	ug/L	0.034	2	86	9584	0	Standard
[>	Tb	159		ug/L			831384	826772	2	Standard
[	Tl	205	-0.001	ug/L	0.000	7	89	56	3	Standard
[	Pb	208	0.012	ug/L	0.001	8	317	886	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0062-03
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 06:22:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	Li	6		ug/L			466192	450860	2	Standard
[	Be	9	0.003	ug/L	0.002	71	3	13	49	Standard
	C	13		ug/L			30091	56800	2	Standard
	Cl	37		ug/L			1714867	1669610	1	Standard
[>	Sc	45		ug/L			612814	688561	3	Standard
[	V	51	0.666	ug/L	0.002	0	7424	28326	3	Standard
[	V-1	51	0.731	ug/L	0.011	1	593	22723	5	Standard
[	Cr	52	0.191	ug/L	0.020	10	22079	29520	2	Standard
[	Cr	53	0.422	ug/L	0.011	2	310	1543	5	Standard
[	Mn	55	1.811	ug/L	0.052	2	827	65994	5	Standard
[>	Ge	72		ug/L			49780	47355	1	KED
[	Co	59	0.030	ug/L	0.003	10	5	182	9	KED
[	Ni	60	-0.165	ug/L	0.014	8	567	261	9	KED
[	Ni	62	-0.163	ug/L	0.029	17	92	43	18	KED
[	Cu	63	0.230	ug/L	0.017	7	100	1189	6	KED
[	Cu	65	0.248	ug/L	0.004	1	55	631	1	KED
[	Zn	66	0.979	ug/L	0.023	2	106	711	0	KED
[	Zn	67	1.252	ug/L	0.132	10	21	147	10	KED
[	As	75	0.492	ug/L	0.040	8	3	167	7	KED
[	Se	78	-0.021	ug/L	0.103	489	22	20	16	KED
	Y	89		ug/L			354399	356161	2	Standard
	Kr	83		ug/L			49	43	18	Standard
[>	In-1	115		ug/L			10030	10225	2	KED
[	Mo	98	0.095	ug/L	0.015	16	10	155	16	KED
[	Cd	111	0.010	ug/L	0.008	81	3	6	34	KED
[	Cd	114	0.003	ug/L	0.004	153	3	5	56	KED
[>	In	115		ug/L			458222	438322	3	Standard
[	Ag	107	0.001	ug/L	0.000	57	35	47	17	Standard
[	Sb	121	0.021	ug/L	0.003	13	294	591	7	Standard
[	Sb	123	0.018	ug/L	0.004	20	255	449	9	Standard
[	Ba	135	2.529	ug/L	0.054	2	50	11853	3	Standard
[	Ba	137	2.713	ug/L	0.038	1	86	22240	4	Standard
[>	Tb	159		ug/L			831384	833865	2	Standard
[	Tl	205	-0.001	ug/L	0.000	80	89	69	20	Standard
[	Pb	208	0.047	ug/L	0.003	7	317	2556	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0062-05
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 06:27:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			466192	463292	2	Standard
	Be	9	0.003	ug/L	0.001	36	3	15	25	Standard
	C	13		ug/L			30091	55262	0	Standard
	Cl	37		ug/L			1714867	1666455	2	Standard
>	Sc	45		ug/L			612814	674453	1	Standard
	V	51	0.688	ug/L	0.028	4	7424	28394	1	Standard
	V-1	51	0.759	ug/L	0.018	2	593	23068	1	Standard
	Cr	52	0.316	ug/L	0.030	9	22079	31942	1	Standard
	Cr	53	0.564	ug/L	0.018	3	310	1906	3	Standard
	Mn	55	1.797	ug/L	0.068	3	827	64144	3	Standard
>	Ge	72		ug/L			49780	47665	3	KED
	Co	59	0.022	ug/L	0.004	20	5	135	19	KED
	Ni	60	-0.174	ug/L	0.008	4	567	247	3	KED
	Ni	62	-0.150	ug/L	0.041	27	92	46	22	KED
	Cu	63	0.236	ug/L	0.011	4	100	1227	5	KED
	Cu	65	0.240	ug/L	0.024	9	55	615	8	KED
	Zn	66	0.361	ug/L	0.063	17	106	328	13	KED
	Zn	67	0.445	ug/L	0.133	29	21	66	20	KED
	As	75	0.491	ug/L	0.037	7	3	167	6	KED
	Se	78	0.103	ug/L	0.163	158	22	24	23	KED
	Y	89		ug/L			354399	354388	0	Standard
	Kr	83		ug/L			49	57	28	Standard
>	In-1	115		ug/L			10030	9634	1	KED
	Mo	98	0.109	ug/L	0.016	14	10	165	11	KED
	Cd	111	0.005	ug/L	0.005	98	3	5	28	KED
	Cd	114	0.003	ug/L	0.009	310	3	5	123	KED
>	In	115		ug/L			458222	443121	1	Standard
	Ag	107	0.001	ug/L	0.000	39	35	52	12	Standard
	Sb	121	0.018	ug/L	0.001	5	294	546	2	Standard
	Sb	123	0.018	ug/L	0.003	18	255	453	7	Standard
	Ba	135	2.633	ug/L	0.072	2	50	12468	1	Standard
	Ba	137	2.712	ug/L	0.073	2	86	22472	3	Standard
>	Tb	159		ug/L			831384	839528	1	Standard
	Tl	205	-0.001	ug/L	0.000	34	89	70	8	Standard
	Pb	208	0.045	ug/L	0.004	8	317	2471	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0062-07
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 06:32:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			466192	478460	3	Standard
	Be	9	0.001	ug/L	0.001	160	3	6	62	Standard
	C	13		ug/L			30091	49007	2	Standard
	Cl	37		ug/L			1714867	1721677	1	Standard
>	Sc	45		ug/L			612814	640419	2	Standard
	V	51	0.033	ug/L	0.004	11	7424	8692	1	Standard
	V-1	51	0.012	ug/L	0.002	15	593	963	5	Standard
	Cr	52	0.154	ug/L	0.007	4	22079	26608	1	Standard
	Cr	53	0.080	ug/L	0.003	4	310	535	3	Standard
	Mn	55	0.111	ug/L	0.004	3	827	4558	1	Standard
>	Ge	72		ug/L			49780	48761	1	KED
	Co	59	0.026	ug/L	0.004	15	5	161	15	KED
	Ni	60	-0.146	ug/L	0.006	4	567	302	5	KED
	Ni	62	-0.120	ug/L	0.029	24	92	56	12	KED
	Cu	63	0.303	ug/L	0.011	3	100	1584	1	KED
	Cu	65	0.305	ug/L	0.021	6	55	786	5	KED
	Zn	66	0.232	ug/L	0.020	8	106	253	4	KED
	Zn	67	0.273	ug/L	0.089	32	21	49	16	KED
	As	75	0.022	ug/L	0.004	19	3	10	15	KED
	Se	78	-0.111	ug/L	0.041	37	22	18	9	KED
	Y	89		ug/L			354399	359715	1	Standard
	Kr	83		ug/L			49	45	21	Standard
>	In-1	115		ug/L			10030	10479	1	KED
	Mo	98	0.006	ug/L	0.005	83	10	20	38	KED
	Cd	111	0.000	ug/L	0.007	1440	3	4	53	KED
	Cd	114	-0.001	ug/L	0.003	244	3	2	78	KED
>	In	115		ug/L			458222	458265	1	Standard
	Ag	107	-0.001	ug/L	0.000	39	35	17	40	Standard
	Sb	121	-0.009	ug/L	0.001	12	294	159	11	Standard
	Sb	123	-0.010	ug/L	0.001	6	255	137	4	Standard
	Ba	135	0.467	ug/L	0.021	4	50	2329	5	Standard
	Ba	137	0.493	ug/L	0.027	5	86	4295	6	Standard
>	Tb	159		ug/L			831384	851080	1	Standard
	Tl	205	-0.002	ug/L	0.000	19	89	35	31	Standard
	Pb	208	0.003	ug/L	0.000	2	317	459	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0472-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 06:37:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			466192	469730	5	Standard
⌊	**Be**	**9**	**0.002**	ug/L	0.001	70	3	11	44	Standard
	C	**13**		ug/L			30091	46617	2	Standard
	Cl	**37**		ug/L			1714867	1726742	3	Standard
⌈>	**Sc**	**45**		ug/L			612814	624882	2	Standard
⌈	**V**	**51**	**0.037**	ug/L	0.005	12	7424	8575	3	Standard
⌊	**V-1**	**51**	**0.018**	ug/L	0.001	7	593	1096	6	Standard
⌈	**Cr**	**52**	**0.140**	ug/L	0.009	6	22079	25654	2	Standard
⌊	**Cr**	**53**	**0.074**	ug/L	0.006	8	310	507	1	Standard
⌈	**Mn**	**55**	**0.134**	ug/L	0.002	1	827	5226	4	Standard
⌈>	**Ge**	**72**		ug/L			49780	48096	2	KED
⌈	**Co**	**59**	**0.027**	ug/L	0.001	4	5	164	4	KED
⌊	**Ni**	**60**	**-0.133**	ug/L	0.018	13	567	321	7	KED
⌈	**Ni**	**62**	**-0.123**	ug/L	0.062	50	92	55	33	KED
⌊	**Cu**	**63**	**0.294**	ug/L	0.003	1	100	1518	2	KED
⌈	**Cu**	**65**	**0.278**	ug/L	0.014	4	55	711	2	KED
⌊	**Zn**	**66**	**0.154**	ug/L	0.028	18	106	200	9	KED
⌈	**Zn**	**67**	**0.130**	ug/L	0.061	46	21	34	20	KED
⌈	**As**	**75**	**0.021**	ug/L	0.009	41	3	10	29	KED
⌊	**Se**	**78**	**-0.008**	ug/L	0.138	1673	22	21	18	KED
	Y	**89**		ug/L			354399	352065	3	Standard
	Kr	**83**		ug/L			49	45	20	Standard
⌈>	**In-1**	**115**		ug/L			10030	10186	4	KED
⌈	**Mo**	**98**	**0.006**	ug/L	0.009	146	10	19	67	KED
⌊	**Cd**	**111**	**0.005**	ug/L	0.005	93	3	5	26	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.004	47	3	9	29	KED
⌈>	**In**	**115**		ug/L			458222	443466	3	Standard
⌈	**Ag**	**107**	**-0.001**	ug/L	0.000	78	35	24	33	Standard
⌈	**Sb**	**121**	**-0.011**	ug/L	0.001	8	294	116	12	Standard
⌊	**Sb**	**123**	**-0.014**	ug/L	0.001	8	255	93	11	Standard
⌈	**Ba**	**135**	**0.477**	ug/L	0.020	4	50	2303	6	Standard
⌊	**Ba**	**137**	**0.475**	ug/L	0.010	2	86	4003	2	Standard
⌈>	**Tb**	**159**		ug/L			831384	827905	3	Standard
⌈	**Tl**	**205**	**-0.001**	ug/L	0.000	5	89	36	10	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	13	317	453	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0472-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 06:42:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	Li	6		ug/L			466192	465071	0	Standard
[	Be	9	25.992	ug/L	0.693	2	3	99064	2	Standard
	C	13		ug/L			30091	47308	2	Standard
	Cl	37		ug/L			1714867	1692013	1	Standard
[>	Sc	45		ug/L			612814	643320	2	Standard
[	V	51	25.662	ug/L	0.577	2	7424	727357	2	Standard
[	V-1	51	25.616	ug/L	0.546	2	593	721948	2	Standard
[	Cr	52	26.091	ug/L	0.586	2	22079	625194	2	Standard
[	Cr	53	25.929	ug/L	0.535	2	310	68917	3	Standard
[	Mn	55	25.348	ug/L	0.594	2	827	851502	3	Standard
[>	Ge	72		ug/L			49780	47941	2	KED
[	Co	59	26.473	ug/L	0.440	1	5	158287	1	KED
[	Ni	60	27.051	ug/L	0.136	0	567	46655	2	KED
[	Ni	62	26.859	ug/L	0.128	0	92	7591	2	KED
[	Cu	63	26.439	ug/L	0.126	0	100	127427	3	KED
[	Cu	65	27.157	ug/L	0.244	0	55	64192	2	KED
[	Zn	66	80.705	ug/L	0.632	0	106	51056	2	KED
[	Zn	67	78.615	ug/L	0.919	1	21	8072	1	KED
[	As	75	25.377	ug/L	0.330	1	3	8557	1	KED
[	Se	78	80.058	ug/L	0.831	1	22	2530	3	KED
	Y	89		ug/L			354399	364064	2	Standard
	Kr	83		ug/L			49	61	11	Standard
[>	In-1	115		ug/L			10030	10249	1	KED
[	Mo	98	26.917	ug/L	0.380	1	10	40886	1	KED
[	Cd	111	25.721	ug/L	0.646	2	3	8106	2	KED
[	Cd	114	25.482	ug/L	0.332	1	3	20578	0	KED
[>	In	115		ug/L			458222	444949	1	Standard
[	Ag	107	26.015	ug/L	0.527	2	35	472670	2	Standard
[	Sb	121	26.150	ug/L	0.128	0	294	390463	1	Standard
[	Sb	123	25.850	ug/L	0.388	1	255	294940	2	Standard
[	Ba	135	26.575	ug/L	0.060	0	50	125954	1	Standard
[	Ba	137	27.823	ug/L	0.567	2	86	230743	2	Standard
[>	Tb	159		ug/L			831384	864999	1	Standard
[	Tl	205	24.518	ug/L	0.663	2	89	902376	2	Standard
[	Pb	208	24.777	ug/L	0.822	3	317	1212767	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0472-MSD1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 06:49:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	Li	6		ug/L			466192	468152	2	Standard
[	Be	9	26.171	ug/L	0.501	1	3	100411	3	Standard
	C	13		ug/L			30091	45555	1	Standard
	Cl	37		ug/L			1714867	1702511	1	Standard
[>	Sc	45		ug/L			612814	646351	3	Standard
[	V	51	25.519	ug/L	0.886	3	7424	726409	0	Standard
[	V-1	51	25.500	ug/L	0.885	3	593	721682	1	Standard
[	Cr	52	25.959	ug/L	0.715	2	22079	624893	1	Standard
[	Cr	53	25.887	ug/L	0.537	2	310	69101	1	Standard
[	Mn	55	25.712	ug/L	0.183	0	827	867778	2	Standard
[>	Ge	72		ug/L			49780	48337	1	KED
[	Co	59	26.115	ug/L	0.445	1	5	157489	2	KED
[	Ni	60	26.681	ug/L	0.619	2	567	46416	3	KED
[	Ni	62	26.248	ug/L	0.741	2	92	7482	3	KED
[	Cu	63	26.632	ug/L	0.383	1	100	129396	0	KED
[	Cu	65	27.451	ug/L	0.805	2	55	65421	2	KED
[	Zn	66	82.593	ug/L	1.369	1	106	52686	2	KED
[	Zn	67	79.632	ug/L	1.387	1	21	8244	0	KED
[	As	75	25.085	ug/L	0.364	1	3	8530	1	KED
[	Se	78	79.390	ug/L	1.767	2	22	2529	1	KED
	Y	89		ug/L			354399	365574	3	Standard
	Kr	83		ug/L			49	41	4	Standard
[>	In-1	115		ug/L			10030	10433	1	KED
[	Mo	98	26.288	ug/L	0.555	2	10	40659	3	KED
[	Cd	111	24.968	ug/L	0.326	1	3	8013	2	KED
[	Cd	114	25.325	ug/L	0.898	3	3	20826	4	KED
[>	In	115		ug/L			458222	447159	2	Standard
[	Ag	107	25.451	ug/L	0.666	2	35	464522	1	Standard
[	Sb	121	25.661	ug/L	0.498	1	294	384990	2	Standard
[	Sb	123	25.740	ug/L	0.847	3	255	294968	1	Standard
[	Ba	135	27.167	ug/L	0.429	1	50	129362	1	Standard
[	Ba	137	27.309	ug/L	0.751	2	86	227517	1	Standard
[>	Tb	159		ug/L			831384	851382	0	Standard
[	Tl	205	25.209	ug/L	0.175	0	89	913381	0	Standard
[	Pb	208	25.447	ug/L	0.278	1	317	1226233	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLG
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 06:54:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			466192	450623	2	Standard
[	**Be**	**9**	**0.000**	ug/L	0.001	285	3	5	78	Standard
	C	**13**		ug/L			30091	28259	5	Standard
	Cl	**37**		ug/L			1714867	1746820	2	Standard
[>	**Sc**	**45**		ug/L			612814	586422	4	Standard
[	**V**	**51**	**0.002**	ug/L	0.002	111	7424	7151	5	Standard
[	**V-1**	**51**	**-0.006**	ug/L	0.001	9	593	421	3	Standard
[	**Cr**	**52**	**0.009**	ug/L	0.003	32	22079	21306	4	Standard
[	**Cr**	**53**	**-0.017**	ug/L	0.009	52	310	255	4	Standard
[	**Mn**	**55**	**-0.004**	ug/L	0.001	16	827	660	1	Standard
[>	**Ge**	**72**		ug/L			49780	48418	2	KED
[	**Co**	**59**	**-0.000**	ug/L	0.000	172	5	3	91	KED
[	**Ni**	**60**	**-0.313**	ug/L	0.005	1	567	12	67	KED
[	**Ni**	**62**	**-0.302**	ug/L	0.010	3	92	5	57	KED
[	**Cu**	**63**	**0.000**	ug/L	0.005	1329	100	100	25	KED
[	**Cu**	**65**	**-0.007**	ug/L	0.004	55	55	38	25	KED
[	**Zn**	**66**	**-0.084**	ug/L	0.019	22	106	50	26	KED
[	**Zn**	**67**	**-0.129**	ug/L	0.056	43	21	7	75	KED
[	**As**	**75**	**0.010**	ug/L	0.006	62	3	6	28	KED
[	**Se**	**78**	**-0.066**	ug/L	0.052	79	22	19	11	KED
	Y	**89**		ug/L			354399	339656	2	Standard
	Kr	**83**		ug/L			49	45	11	Standard
[>	**In-1**	**115**		ug/L			10030	9933	4	KED
[	**Mo**	**98**	**0.001**	ug/L	0.003	264	10	12	36	KED
[	**Cd**	**111**	**0.007**	ug/L	0.013	192	3	5	66	KED
[	**Cd**	**114**	**0.003**	ug/L	0.002	90	3	5	35	KED
[>	**In**	**115**		ug/L			458222	427798	5	Standard
[	**Ag**	**107**	**0.001**	ug/L	0.001	144	35	43	30	Standard
[	**Sb**	**121**	**-0.013**	ug/L	0.000	3	294	95	10	Standard
[	**Sb**	**123**	**-0.017**	ug/L	0.001	6	255	56	18	Standard
[	**Ba**	**135**	**-0.003**	ug/L	0.002	71	50	35	26	Standard
[	**Ba**	**137**	**-0.003**	ug/L	0.000	5	86	53	3	Standard
[>	**Tb**	**159**		ug/L			831384	791994	3	Standard
[	**Tl**	**205**	**-0.001**	ug/L	0.000	56	89	67	12	Standard
[	**Pb**	**208**	**-0.003**	ug/L	0.000	10	317	158	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 06:59:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			466192	448330	6	Standard
	Be	**9**	**51.279**	ug/L	2.317	4	3	188444	8	Standard
	C	**13**		ug/L			30091	29220	5	Standard
	Cl	**37**		ug/L			1714867	1698871	1	Standard
>	**Sc**	**45**		ug/L			612814	620470	7	Standard
	V	**51**	**49.096**	ug/L	0.489	0	7424	1335022	6	Standard
	V-1	**51**	**49.087**	ug/L	0.567	1	593	1333384	6	Standard
	Cr	**52**	**50.022**	ug/L	0.951	1	22079	1134822	5	Standard
	Cr	**53**	**49.981**	ug/L	1.112	2	310	127710	5	Standard
	Mn	**55**	**48.711**	ug/L	0.750	1	827	1577168	6	Standard
>	**Ge**	**72**		ug/L			49780	48001	2	KED
	Co	**59**	**51.026**	ug/L	1.849	3	5	305418	2	KED
	Ni	**60**	**51.173**	ug/L	1.546	3	567	87863	2	KED
	Ni	**62**	**50.145**	ug/L	1.436	2	92	14110	2	KED
	Cu	**63**	**50.964**	ug/L	1.873	3	100	245728	2	KED
	Cu	**65**	**52.523**	ug/L	1.263	2	55	124295	3	KED
	Zn	**66**	**50.845**	ug/L	0.601	1	106	32240	1	KED
	Zn	**67**	**51.218**	ug/L	0.482	0	21	5274	3	KED
	As	**75**	**50.344**	ug/L	0.736	1	3	16995	1	KED
	Se	**78**	**49.894**	ug/L	2.255	4	22	1585	2	KED
	Y	**89**		ug/L			354399	350911	4	Standard
	Kr	**83**		ug/L			49	48	11	Standard
>	**In-1**	**115**		ug/L			10030	9841	5	KED
	Mo	**98**	**53.263**	ug/L	1.167	2	10	77627	4	KED
	Cd	**111**	**52.406**	ug/L	1.347	2	3	15851	5	KED
	Cd	**114**	**52.145**	ug/L	1.264	2	3	40398	3	KED
>	**In**	**115**		ug/L			458222	426164	5	Standard
	Ag	**107**	**50.315**	ug/L	1.587	3	35	874657	3	Standard
	Sb	**121**	**49.881**	ug/L	1.267	2	294	712508	2	Standard
	Sb	**123**	**49.685**	ug/L	0.397	0	255	542562	4	Standard
	Ba	**135**	**51.425**	ug/L	1.170	2	50	233257	3	Standard
	Ba	**137**	**52.664**	ug/L	2.127	4	86	417802	3	Standard
>	**Tb**	**159**		ug/L			831384	825476	5	Standard
	Tl	**205**	**47.903**	ug/L	0.509	1	89	1682404	4	Standard
	Pb	**208**	**48.883**	ug/L	0.314	0	317	2283068	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 07:07:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			466192	455387	0	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.001	404	3	4	65	Standard
	C	**13**		ug/L			30091	28746	4	Standard
	Cl	**37**		ug/L			1714867	1771014	1	Standard
⌈>	**Sc**	**45**		ug/L			612814	640721	3	Standard
⌈	**V**	**51**	**-0.000**	ug/L	0.006	5453	7424	7756	1	Standard
⌊	**V-1**	**51**	**-0.008**	ug/L	0.001	6	593	397	0	Standard
⌈	**Cr**	**52**	**0.003**	ug/L	0.025	775	22079	23147	1	Standard
⌊	**Cr**	**53**	**-0.024**	ug/L	0.005	22	310	262	2	Standard
⌊	**Mn**	**55**	**-0.002**	ug/L	0.002	110	827	812	4	Standard
⌈>	**Ge**	**72**		ug/L			49780	48902	1	KED
⌈	**Co**	**59**	**-0.000**	ug/L	0.001	291	5	3	86	KED
⌊	**Ni**	**60**	**-0.309**	ug/L	0.002	0	567	20	15	KED
⌈	**Ni**	**62**	**-0.297**	ug/L	0.010	3	92	6	45	KED
⌊	**Cu**	**63**	**0.002**	ug/L	0.002	133	100	107	9	KED
⌈	**Cu**	**65**	**0.006**	ug/L	0.005	83	55	69	19	KED
⌊	**Zn**	**66**	**0.117**	ug/L	0.021	17	106	180	7	KED
⌈	**Zn**	**67**	**0.028**	ug/L	0.043	156	21	24	19	KED
⌊	**As**	**75**	**0.006**	ug/L	0.004	66	3	5	26	KED
⌊	**Se**	**78**	**0.063**	ug/L	0.134	212	22	23	19	KED
	Y	**89**		ug/L			354399	357843	2	Standard
	Kr	**83**		ug/L			49	43	30	Standard
⌈>	**In-1**	**115**		ug/L			10030	10491	3	KED
⌈	**Mo**	**98**	**-0.001**	ug/L	0.005	470	10	9	84	KED
⌊	**Cd**	**111**	**0.002**	ug/L	0.005	234	3	4	40	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.008	119	3	9	74	KED
⌈>	**In**	**115**		ug/L			458222	449677	3	Standard
⌈	**Ag**	**107**	**0.001**	ug/L	0.001	74	35	48	25	Standard
⌊	**Sb**	**121**	**0.034**	ug/L	0.003	8	294	806	2	Standard
⌈	**Sb**	**123**	**0.032**	ug/L	0.001	4	255	618	6	Standard
⌊	**Ba**	**135**	**0.012**	ug/L	0.002	13	50	106	9	Standard
⌊	**Ba**	**137**	**0.010**	ug/L	0.001	12	86	165	5	Standard
⌈>	**Tb**	**159**		ug/L			831384	813185	4	Standard
⌈	**Tl**	**205**	**0.002**	ug/L	0.001	37	89	157	12	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	64	317	288	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 07:12:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L				445315	4	Standard
⌊	**Be**	**9**		ug/L				4	65	Standard
	C	**13**		ug/L				28756	7	Standard
	Cl	**37**		ug/L				1763477	1	Standard
⌈>	**Sc**	**45**		ug/L				604634	3	Standard
|	**V**	**51**		ug/L				7658	4	Standard
|	**V-1**	**51**		ug/L				354	4	Standard
|	**Cr**	**52**		ug/L				22715	5	Standard
|	**Cr**	**53**		ug/L				231	9	Standard
⌊	**Mn**	**55**		ug/L				858	3	Standard
⌈>	**Ge**	**72**		ug/L				47144	1	KED
|	**Co**	**59**		ug/L				3	91	KED
|	**Ni**	**60**		ug/L				583	4	KED
|	**Ni**	**62**		ug/L				99	22	KED
|	**Cu**	**63**		ug/L				88	8	KED
|	**Cu**	**65**		ug/L				51	16	KED
|	**Zn**	**66**		ug/L				128	21	KED
|	**Zn**	**67**		ug/L				17	22	KED
|	**As**	**75**		ug/L				4	66	KED
⌊	**Se**	**78**		ug/L				20	12	KED
	Y	**89**		ug/L				352824	2	Standard
	Kr	**83**		ug/L				41	30	Standard
⌈>	**In-1**	**115**		ug/L				9999	3	KED
|	**Mo**	**98**		ug/L				5	75	KED
|	**Cd**	**111**		ug/L				5	16	KED
⌊	**Cd**	**114**		ug/L				9	41	KED
⌈>	**In**	**115**		ug/L				440562	2	Standard
|	**Ag**	**107**		ug/L				34	16	Standard
|	**Sb**	**121**		ug/L				252	5	Standard
|	**Sb**	**123**		ug/L				192	14	Standard
|	**Ba**	**135**		ug/L				54	5	Standard
⌊	**Ba**	**137**		ug/L				99	7	Standard
⌈>	**Tb**	**159**		ug/L				801432	2	Standard
|	**Tl**	**205**		ug/L				79	15	Standard
⌊	**Pb**	**208**		ug/L				302	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 07:17:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			445315	455961	0	Standard
⌊	**Be**	**9**	**51.420**	ug/L	1.164	2	4	192135	2	Standard
	C	**13**		ug/L			28756	28895	2	Standard
	Cl	**37**		ug/L			1763477	1723255	1	Standard
⌈>	**Sc**	**45**		ug/L			604634	641974	1	Standard
⌈	**V**	**51**	**49.523**	ug/L	0.726	1	7658	1394120	1	Standard
⌊	**V-1**	**51**	**49.372**	ug/L	1.100	2	354	1387925	2	Standard
⌈	**Cr**	**52**	**50.451**	ug/L	0.648	1	22715	1185947	1	Standard
⌊	**Cr**	**53**	**49.922**	ug/L	0.999	2	231	132031	2	Standard
⌊	**Mn**	**55**	**49.581**	ug/L	1.205	2	858	1661015	1	Standard
⌈>	**Ge**	**72**		ug/L			47144	44686	1	KED
⌈	**Co**	**59**	**51.485**	ug/L	1.179	2	3	287074	3	KED
⌊	**Ni**	**60**	**51.851**	ug/L	1.519	2	583	82932	3	KED
⌈	**Ni**	**62**	**50.409**	ug/L	0.742	1	99	13215	0	KED
⌈	**Cu**	**63**	**51.562**	ug/L	1.253	2	88	231599	4	KED
⌊	**Cu**	**65**	**53.262**	ug/L	0.948	1	51	117316	2	KED
⌈	**Zn**	**66**	**50.578**	ug/L	0.317	0	128	29885	1	KED
⌊	**Zn**	**67**	**52.007**	ug/L	1.062	2	17	4983	3	KED
⌈	**As**	**75**	**50.972**	ug/L	1.013	1	4	16026	3	KED
⌊	**Se**	**78**	**51.077**	ug/L	0.940	1	20	1511	2	KED
	Y	**89**		ug/L			352824	365759	2	Standard
	Kr	**83**		ug/L			41	49	26	Standard
⌈>	**In-1**	**115**		ug/L			9999	10033	1	KED
⌈	**Mo**	**98**	**51.941**	ug/L	0.704	1	5	77219	2	KED
⌈	**Cd**	**111**	**51.553**	ug/L	0.608	1	5	15904	0	KED
⌊	**Cd**	**114**	**52.378**	ug/L	1.178	2	9	41408	1	KED
⌈>	**In**	**115**		ug/L			440562	438028	1	Standard
⌈	**Ag**	**107**	**51.433**	ug/L	1.675	3	34	919776	3	Standard
⌈	**Sb**	**121**	**50.625**	ug/L	1.265	2	252	743734	1	Standard
⌊	**Sb**	**123**	**49.870**	ug/L	1.203	2	192	559680	0	Standard
⌈	**Ba**	**135**	**51.833**	ug/L	1.591	3	54	241739	1	Standard
⌊	**Ba**	**137**	**52.259**	ug/L	1.326	2	99	426565	2	Standard
⌈>	**Tb**	**159**		ug/L			801432	849705	1	Standard
⌈	**Tl**	**205**	**48.816**	ug/L	0.813	1	79	1765316	2	Standard
⌊	**Pb**	**208**	**49.219**	ug/L	0.800	1	302	2366881	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 07:25:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			445315	434060	0	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.001	295	4	5	43	Standard
	C	**13**		ug/L			28756	28568	1	Standard
	Cl	**37**		ug/L			1763477	1761089	1	Standard
⌈>	**Sc**	**45**		ug/L			604634	605571	3	Standard
⌈	**V**	**51**	**0.000**	ug/L	0.007	1982	7658	7675	1	Standard
⌊	**V-1**	**51**	**0.000**	ug/L	0.001	3631	354	355	4	Standard
⌈	**Cr**	**52**	**-0.004**	ug/L	0.021	550	22715	22659	2	Standard
⌊	**Cr**	**53**	**-0.005**	ug/L	0.003	60	231	219	5	Standard
⌊	**Mn**	**55**	**-0.002**	ug/L	0.001	47	858	789	1	Standard
⌈>	**Ge**	**72**		ug/L			47144	46813	2	KED
⌈	**Co**	**59**	**0.000**	ug/L	0.000	293	3	3	50	KED
⌊	**Ni**	**60**	**-0.329**	ug/L	0.004	1	583	31	23	KED
⌈	**Ni**	**62**	**-0.337**	ug/L	0.010	3	99	6	45	KED
⌊	**Cu**	**63**	**0.003**	ug/L	0.002	50	88	102	9	KED
⌈	**Cu**	**65**	**0.002**	ug/L	0.004	156	51	56	16	KED
⌊	**Zn**	**66**	**0.033**	ug/L	0.030	90	128	147	10	KED
⌈	**Zn**	**67**	**0.065**	ug/L	0.098	150	17	23	41	KED
⌈	**As**	**75**	**0.005**	ug/L	0.004	77	4	6	20	KED
⌊	**Se**	**78**	**0.065**	ug/L	0.077	118	20	22	12	KED
	Y	**89**		ug/L			352824	340940	0	Standard
	Kr	**83**		ug/L			41	48	9	Standard
⌈>	**In-1**	**115**		ug/L			9999	10043	5	KED
⌈	**Mo**	**98**	**0.009**	ug/L	0.004	46	5	18	35	KED
⌊	**Cd**	**111**	**0.009**	ug/L	0.014	161	5	8	55	KED
⌊	**Cd**	**114**	**-0.007**	ug/L	0.005	76	9	4	107	KED
⌈>	**In**	**115**		ug/L			440562	429268	3	Standard
⌈	**Ag**	**107**	**0.001**	ug/L	0.000	56	34	44	16	Standard
⌈	**Sb**	**121**	**0.042**	ug/L	0.001	3	252	852	1	Standard
⌊	**Sb**	**123**	**0.043**	ug/L	0.006	13	192	659	8	Standard
⌈	**Ba**	**135**	**0.011**	ug/L	0.002	17	54	104	5	Standard
⌊	**Ba**	**137**	**0.006**	ug/L	0.001	17	99	146	7	Standard
⌈>	**Tb**	**159**		ug/L			801432	787940	2	Standard
⌈	**Tl**	**205**	**0.002**	ug/L	0.001	38	79	132	14	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.001	89	302	253	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0658-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 07:30:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			445315	446363	2	Standard
	Be	9	0.001	ug/L	0.001	118	4	7	50	Standard
	C	13		ug/L			28756	53002	1	Standard
	Cl	37		ug/L			1763477	423972	7	Standard
>	Sc	45		ug/L			604634	636578	2	Standard
	V	51	37.314	ug/L	0.946	2	7658	1043993	4	Standard
	V-1	51	40.195	ug/L	0.955	2	354	1120905	4	Standard
	Cr	52	1.622	ug/L	0.027	1	22715	60970	3	Standard
	Cr	53	11.938	ug/L	0.263	2	231	31485	2	Standard
	Mn	55	0.090	ug/L	0.005	5	858	3905	1	Standard
>	Ge	72		ug/L			47144	36136	1	KED
	Co	59	0.035	ug/L	0.005	13	3	161	12	KED
	Ni	60	-0.195	ug/L	0.026	13	583	196	17	KED
	Ni	62	-0.098	ug/L	0.087	88	99	55	33	KED
	Cu	63	0.503	ug/L	0.004	0	88	1895	2	KED
	Cu	65	0.511	ug/L	0.046	8	51	949	7	KED
	Zn	66	0.389	ug/L	0.081	20	128	283	11	KED
	Zn	67	1.743	ug/L	0.255	14	17	147	14	KED
	As	75	140.564	ug/L	1.307	0	4	35731	2	KED
	Se	78	18.964	ug/L	0.720	3	20	463	5	KED
	Y	89		ug/L			352824	283879	3	Standard
	Kr	83		ug/L			41	100	12	Standard
>	In-1	115		ug/L			9999	7549	1	KED
	Mo	98	137.392	ug/L	3.089	2	5	153652	0	KED
	Cd	111	0.027	ug/L	0.029	107	5	10	62	KED
	Cd	114	0.012	ug/L	0.018	146	9	14	76	KED
>	In	115		ug/L			440562	363066	4	Standard
	Ag	107	0.003	ug/L	0.001	34	34	78	26	Standard
	Sb	121	0.947	ug/L	0.045	4	252	11726	3	Standard
	Sb	123	0.955	ug/L	0.030	3	192	9032	1	Standard
	Ba	135	25.641	ug/L	0.814	3	54	99105	2	Standard
	Ba	137	26.220	ug/L	0.378	1	99	177447	4	Standard
>	Tb	159		ug/L			801432	791362	1	Standard
	Tl	205	0.005	ug/L	0.001	14	79	243	10	Standard
	Pb	208	0.007	ug/L	0.000	3	302	615	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0658-04
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 07:35:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			445315	477409	3	Standard
	Be	9	0.001	ug/L	0.001	76	4	8	35	Standard
	C	13		ug/L			28756	49681	1	Standard
	Cl	37		ug/L			1763477	699356	3	Standard
>	Sc	45		ug/L			604634	643581	4	Standard
	V	51	56.851	ug/L	2.617	4	7658	1601566	3	Standard
	V-1	51	57.206	ug/L	2.619	4	354	1610455	3	Standard
	Cr	52	0.897	ug/L	0.047	5	22715	44860	2	Standard
	Cr	53	2.898	ug/L	0.063	2	231	7911	2	Standard
	Mn	55	0.250	ug/L	0.012	4	858	9286	1	Standard
>	Ge	72		ug/L			47144	41028	1	KED
	Co	59	0.017	ug/L	0.001	8	3	87	7	KED
	Ni	60	0.062	ug/L	0.010	16	583	597	1	KED
	Ni	62	0.109	ug/L	0.090	82	99	112	19	KED
	Cu	63	0.895	ug/L	0.004	0	88	3766	0	KED
	Cu	65	0.951	ug/L	0.063	6	51	1967	6	KED
	Zn	66	0.580	ug/L	0.040	6	128	425	6	KED
	Zn	67	1.961	ug/L	0.364	18	17	186	16	KED
	As	75	197.099	ug/L	1.775	0	4	56881	1	KED
	Se	78	2.727	ug/L	0.217	7	20	90	6	KED
	Y	89		ug/L			352824	293026	2	Standard
	Kr	83		ug/L			41	55	10	Standard
>	In-1	115		ug/L			9999	7816	1	KED
	Mo	98	137.639	ug/L	4.143	3	5	159375	1	KED
	Cd	111	0.028	ug/L	0.020	71	5	11	42	KED
	Cd	114	0.014	ug/L	0.013	94	9	15	50	KED
>	In	115		ug/L			440562	398255	5	Standard
	Ag	107	0.000	ug/L	0.001	1958	34	31	28	Standard
	Sb	121	1.419	ug/L	0.064	4	252	19155	2	Standard
	Sb	123	1.469	ug/L	0.090	6	192	15123	0	Standard
	Ba	135	26.821	ug/L	0.921	3	54	113652	2	Standard
	Ba	137	26.872	ug/L	1.135	4	99	199204	2	Standard
>	Tb	159		ug/L			801432	843317	5	Standard
	Tl	205	0.004	ug/L	0.001	20	79	238	9	Standard
	Pb	208	0.012	ug/L	0.001	5	302	869	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0089-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 07:40:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			445315	499327	4	Standard
	Be	9	0.009	ug/L	0.001	9	4	41	9	Standard
	C	13		ug/L			28756	73050	5	Standard
	Cl	37		ug/L			1763477	1535400	3	Standard
>	Sc	45		ug/L			604634	624887	2	Standard
	V	51	1.467	ug/L	0.045	3	7658	47916	5	Standard
	V-1	51	3.565	ug/L	0.035	0	354	97908	3	Standard
	Cr	52	0.576	ug/L	0.030	5	22715	36389	3	Standard
	Cr	53	7.729	ug/L	0.073	0	231	20099	2	Standard
	Mn	55	4.857	ug/L	0.077	1	858	159193	2	Standard
>	Ge	72		ug/L			47144	42012	1	KED
	Co	59	0.211	ug/L	0.007	3	3	1106	2	KED
	Ni	60	1.737	ug/L	0.102	5	583	3115	5	KED
	Ni	62	1.841	ug/L	0.233	12	99	539	11	KED
	Cu	63	14.579	ug/L	0.293	2	88	61602	1	KED
	Cu	65	14.959	ug/L	0.210	1	51	31007	0	KED
	Zn	66	83.995	ug/L	2.035	2	128	46576	0	KED
	Zn	67	80.040	ug/L	0.430	0	17	7199	1	KED
	As	75	1.298	ug/L	0.061	4	4	387	5	KED
	Se	78	0.105	ug/L	0.035	33	20	21	5	KED
	Y	89		ug/L			352824	338916	0	Standard
	Kr	83		ug/L			41	42	6	Standard
>	In-1	115		ug/L			9999	9046	1	KED
	Mo	98	1.456	ug/L	0.028	1	5	1956	2	KED
	Cd	111	0.048	ug/L	0.013	28	5	18	19	KED
	Cd	114	0.057	ug/L	0.004	6	9	48	6	KED
>	In	115		ug/L			440562	413025	1	Standard
	Ag	107	0.040	ug/L	0.002	5	34	704	5	Standard
	Sb	121	0.643	ug/L	0.009	1	252	9145	1	Standard
	Sb	123	0.650	ug/L	0.034	5	192	7055	4	Standard
	Ba	135	20.716	ug/L	0.299	1	54	91150	2	Standard
	Ba	137	21.771	ug/L	0.714	3	99	167604	3	Standard
>	Tb	159		ug/L			801432	888478	2	Standard
	Tl	205	0.007	ug/L	0.000	3	79	343	4	Standard
	Pb	208	0.652	ug/L	0.014	2	302	33075	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0441-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, April 26, 2023 07:45:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			445315	479451	3	Standard
	Be	**9**	**0.000**	ug/L	0.000	21	4	5	0	Standard
	C	**13**		ug/L			28756	53915	2	Standard
	Cl	**37**		ug/L			1763477	1007499	6	Standard
>	**Sc**	**45**		ug/L			604634	569605	1	Standard
	V	**51**	**0.475**	ug/L	0.325	68	7658	19043	43	Standard
	V-1	**51**	**11.544**	ug/L	0.040	0	354	288208	1	Standard
	Cr	**52**	**0.815**	ug/L	0.034	4	22715	38059	1	Standard
	Cr	**53**	**38.497**	ug/L	1.188	3	231	90378	2	Standard
	Mn	**55**	**9.077**	ug/L	0.174	1	858	270533	1	Standard
>	**Ge**	**72**		ug/L			47144	39265	1	KED
	Co	**59**	**0.063**	ug/L	0.004	6	3	310	5	KED
	Ni	**60**	**0.064**	ug/L	0.025	38	583	575	6	KED
	Ni	**62**	**0.253**	ug/L	0.085	33	99	140	13	KED
	Cu	**63**	**1.032**	ug/L	0.013	1	88	4142	2	KED
	Cu	**65**	**1.063**	ug/L	0.004	0	51	2099	1	KED
	Zn	**66**	**16.966**	ug/L	0.263	1	128	8878	0	KED
	Zn	**67**	**17.318**	ug/L	0.461	2	17	1466	1	KED
	As	**75**	**0.201**	ug/L	0.003	1	4	59	2	KED
	Se	**78**	**0.307**	ug/L	0.041	13	20	24	5	KED
	Y	**89**		ug/L			352824	290906	2	Standard
	Kr	**83**		ug/L			41	151	13	Standard
>	**In-1**	**115**		ug/L			9999	8070	2	KED
	Mo	**98**	**1.009**	ug/L	0.050	4	5	1211	4	KED
	Cd	**111**	**0.016**	ug/L	0.008	52	5	8	22	KED
	Cd	**114**	**0.012**	ug/L	0.009	76	9	15	38	KED
>	**In**	**115**		ug/L			440562	346611	4	Standard
	Ag	**107**	**0.001**	ug/L	0.000	13	34	45	4	Standard
	Sb	**121**	**0.108**	ug/L	0.005	4	252	1448	1	Standard
	Sb	**123**	**0.109**	ug/L	0.002	2	192	1120	4	Standard
	Ba	**135**	**15.410**	ug/L	0.423	2	54	56876	2	Standard
	Ba	**137**	**16.412**	ug/L	0.805	4	99	105988	4	Standard
>	**Tb**	**159**		ug/L			801432	752140	3	Standard
	Tl	**205**	**0.003**	ug/L	0.001	26	79	165	12	Standard
	Pb	**208**	**0.091**	ug/L	0.002	2	302	4160	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0441-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, April 26, 2023 07:50:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			445315	482531	5	Standard
[	**Be**	**9**	**0.001**	ug/L	0.001	104	4	10	57	Standard
	C	**13**		ug/L			28756	54309	1	Standard
	Cl	**37**		ug/L			1763477	713405	4	Standard
[>	**Sc**	**45**		ug/L			604634	576475	1	Standard
[	**V**	**51**	**0.461**	ug/L	0.153	33	7658	18877	20	Standard
[	**V-1**	**51**	**16.301**	ug/L	0.576	3	354	411597	1	Standard
[	**Cr**	**52**	**1.144**	ug/L	0.072	6	22715	45294	1	Standard
[	**Cr**	**53**	**55.067**	ug/L	1.914	3	231	130708	1	Standard
[	**Mn**	**55**	**5.017**	ug/L	0.191	3	858	151639	2	Standard
[>	**Ge**	**72**		ug/L			47144	39430	0	KED
[	**Co**	**59**	**0.082**	ug/L	0.006	7	3	404	7	KED
[	**Ni**	**60**	**0.099**	ug/L	0.027	27	583	627	6	KED
[	**Ni**	**62**	**0.449**	ug/L	0.083	18	99	186	10	KED
[	**Cu**	**63**	**1.988**	ug/L	0.019	0	88	7947	0	KED
[	**Cu**	**65**	**2.055**	ug/L	0.071	3	51	4035	3	KED
[	**Zn**	**66**	**24.854**	ug/L	0.528	2	128	13013	1	KED
[	**Zn**	**67**	**24.837**	ug/L	0.658	2	17	2106	2	KED
[	**As**	**75**	**0.322**	ug/L	0.020	6	4	93	5	KED
[	**Se**	**78**	**0.361**	ug/L	0.219	60	20	26	21	KED
	Y	**89**		ug/L			352824	291169	1	Standard
	Kr	**83**		ug/L			41	337	2	Standard
[>	**In-1**	**115**		ug/L			9999	7824	2	KED
[	**Mo**	**98**	**1.227**	ug/L	0.047	3	5	1426	4	KED
[	**Cd**	**111**	**0.012**	ug/L	0.014	121	5	7	49	KED
[	**Cd**	**114**	**0.011**	ug/L	0.008	70	9	13	32	KED
[>	**In**	**115**		ug/L			440562	318486	2	Standard
[	**Ag**	**107**	**0.025**	ug/L	0.001	3	34	349	1	Standard
[	**Sb**	**121**	**0.123**	ug/L	0.005	4	252	1495	3	Standard
[	**Sb**	**123**	**0.128**	ug/L	0.005	3	192	1187	3	Standard
[	**Ba**	**135**	**22.245**	ug/L	0.218	0	54	75477	2	Standard
[	**Ba**	**137**	**22.884**	ug/L	0.370	1	99	135894	3	Standard
[>	**Tb**	**159**		ug/L			801432	712294	0	Standard
[	**Tl**	**205**	**0.004**	ug/L	0.000	4	79	205	3	Standard
[	**Pb**	**208**	**0.520**	ug/L	0.015	2	302	21204	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0433-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, April 26, 2023 07:55:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
Li	6		ug/L			445315	636557	1	Standard
Be	9	-0.000	ug/L	0.001	7914	4	6	75	Standard
C	13		ug/L			28756	49982	3	Standard
Cl	37		ug/L			1763477	1077945	3	Standard
Sc	45		ug/L			604634	627620	1	Standard
V	51	0.757	ug/L	0.051	6	7658	28649	4	Standard
V-1	51	1.097	ug/L	0.009	0	354	30512	1	Standard
Cr	52	4.575	ug/L	0.019	0	22715	126580	1	Standard
Cr	53	5.680	ug/L	0.135	2	231	14899	2	Standard
Mn	55	4.319	ug/L	0.025	0	858	142306	1	Standard
Ge	72		ug/L			47144	43538	4	KED
Co	59	0.288	ug/L	0.003	1	3	1569	5	KED
Ni	60	0.031	ug/L	0.048	154	583	584	8	KED
Ni	62	0.165	ug/L	0.014	8	99	133	7	KED
Cu	63	2.250	ug/L	0.043	1	88	9915	2	KED
Cu	65	2.293	ug/L	0.047	2	51	4962	2	KED
Zn	66	1.080	ug/L	0.115	10	128	736	7	KED
Zn	67	0.870	ug/L	0.268	30	17	96	24	KED
As	75	0.064	ug/L	0.003	4	4	23	2	KED
Se	78	0.069	ug/L	0.291	423	20	20	36	KED
Y	89		ug/L			352824	334650	2	Standard
Kr	83		ug/L			41	45	46	Standard
In-1	115		ug/L			9999	9522	4	KED
Mo	98	3.378	ug/L	0.070	2	5	4768	2	KED
Cd	111	0.008	ug/L	0.009	120	5	7	33	KED
Cd	114	-0.001	ug/L	0.008	749	9	7	74	KED
In	115		ug/L			440562	443403	3	Standard
Ag	107	-0.000	ug/L	0.000	223	34	32	20	Standard
Sb	121	0.106	ug/L	0.004	4	252	1835	2	Standard
Sb	123	0.110	ug/L	0.004	3	192	1442	1	Standard
Ba	135	0.761	ug/L	0.024	3	54	3645	0	Standard
Ba	137	0.781	ug/L	0.017	2	99	6548	1	Standard
Tb	159		ug/L			801432	874654	3	Standard
Tl	205	0.003	ug/L	0.001	29	79	187	17	Standard
Pb	208	0.025	ug/L	0.001	2	302	1589	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0433-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, April 26, 2023 08:00:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
Li	6		ug/L			445315	659303	3	Standard
Be	9	-0.001	ug/L	0.000	27	4	2	43	Standard
C	13		ug/L			28756	48590	1	Standard
Cl	37		ug/L			1763477	1022379	1	Standard
Sc	45		ug/L			604634	595404	3	Standard
V	51	0.709	ug/L	0.051	7	7658	25930	2	Standard
V-1	51	0.903	ug/L	0.016	1	354	23873	1	Standard
Cr	52	4.095	ug/L	0.110	2	22715	109806	1	Standard
Cr	53	4.706	ug/L	0.094	2	231	11750	4	Standard
Mn	55	4.386	ug/L	0.116	2	858	137050	3	Standard
Ge	72		ug/L			47144	42326	2	KED
Co	59	0.147	ug/L	0.005	3	3	779	3	KED
Ni	60	-0.010	ug/L	0.002	20	583	509	2	KED
Ni	62	0.077	ug/L	0.043	55	99	107	10	KED
Cu	63	1.964	ug/L	0.035	1	88	8432	3	KED
Cu	65	2.042	ug/L	0.058	2	51	4305	4	KED
Zn	66	1.192	ug/L	0.087	7	128	779	4	KED
Zn	67	1.353	ug/L	0.033	2	17	137	3	KED
As	75	0.058	ug/L	0.012	21	4	21	17	KED
Se	78	0.186	ug/L	0.032	17	20	23	4	KED
Y	89		ug/L			352824	316988	3	Standard
Kr	83		ug/L			41	45	19	Standard
In-1	115		ug/L			9999	9327	0	KED
Mo	98	3.535	ug/L	0.129	3	5	4891	3	KED
Cd	111	0.002	ug/L	0.005	207	5	6	24	KED
Cd	114	-0.003	ug/L	0.004	115	9	6	48	KED
In	115		ug/L			440562	420806	3	Standard
Ag	107	-0.000	ug/L	0.000	74	34	25	26	Standard
Sb	121	0.093	ug/L	0.003	3	252	1552	3	Standard
Sb	123	0.095	ug/L	0.010	10	192	1201	6	Standard
Ba	135	0.811	ug/L	0.008	0	54	3684	3	Standard
Ba	137	0.848	ug/L	0.014	1	99	6741	1	Standard
Tb	159		ug/L			801432	899996	1	Standard
Tl	205	0.002	ug/L	0.000	12	79	179	4	Standard
Pb	208	0.017	ug/L	0.001	3	302	1185	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0433-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, April 26, 2023 08:06:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
Li	6		ug/L			445315	662631	1	Standard
Be	9	-0.000	ug/L	0.001	193	4	5	57	Standard
C	13		ug/L			28756	49224	0	Standard
Cl	37		ug/L			1763477	953068	3	Standard
Sc	45		ug/L			604634	598212	2	Standard
V	51	0.622	ug/L	0.015	2	7658	23789	1	Standard
V-1	51	0.788	ug/L	0.015	1	354	20995	2	Standard
Cr	52	3.596	ug/L	0.188	5	22715	99579	1	Standard
Cr	53	4.121	ug/L	0.165	4	231	10358	1	Standard
Mn	55	3.976	ug/L	0.015	0	858	124921	2	Standard
Ge	72		ug/L			47144	42145	2	KED
Co	59	0.079	ug/L	0.006	7	3	417	9	KED
Ni	60	-0.070	ug/L	0.014	19	583	417	7	KED
Ni	62	0.007	ug/L	0.049	663	99	90	10	KED
Cu	63	1.948	ug/L	0.036	1	88	8323	2	KED
Cu	65	1.957	ug/L	0.060	3	51	4108	0	KED
Zn	66	0.991	ug/L	0.029	2	128	664	2	KED
Zn	67	0.773	ug/L	0.130	16	17	85	16	KED
As	75	0.051	ug/L	0.009	18	4	19	16	KED
Se	78	0.019	ug/L	0.120	641	20	18	19	KED
Y	89		ug/L			352824	319125	0	Standard
Kr	83		ug/L			41	38	2	Standard
In-1	115		ug/L			9999	9339	2	KED
Mo	98	3.008	ug/L	0.178	5	5	4164	4	KED
Cd	111	-0.002	ug/L	0.009	466	5	4	52	KED
Cd	114	-0.002	ug/L	0.003	133	9	7	27	KED
In	115		ug/L			440562	440175	1	Standard
Ag	107	-0.001	ug/L	0.001	81	34	23	40	Standard
Sb	121	0.081	ug/L	0.004	4	252	1443	4	Standard
Sb	123	0.083	ug/L	0.005	6	192	1126	4	Standard
Ba	135	0.744	ug/L	0.014	1	54	3543	3	Standard
Ba	137	0.763	ug/L	0.013	1	99	6354	2	Standard
Tb	159		ug/L			801432	934380	2	Standard
Tl	205	0.002	ug/L	0.000	8	79	184	5	Standard
Pb	208	0.018	ug/L	0.001	4	302	1285	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0433-04
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, April 26, 2023 08:12:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
Li	6		ug/L			445315	592705	4	Standard
Be	9	0.000	ug/L	0.001	733	4	6	45	Standard
C	13		ug/L			28756	47902	3	Standard
Cl	37		ug/L			1763477	973910	1	Standard
Sc	45		ug/L			604634	565364	4	Standard
V	51	0.595	ug/L	0.045	7	7658	21792	1	Standard
V-1	51	0.704	ug/L	0.018	2	354	17754	2	Standard
Cr	52	5.585	ug/L	0.163	2	22715	134426	2	Standard
Cr	53	5.887	ug/L	0.085	1	231	13898	3	Standard
Mn	55	4.279	ug/L	0.104	2	858	126925	2	Standard
Ge	72		ug/L			47144	43005	1	KED
Co	59	0.055	ug/L	0.002	3	3	299	2	KED
Ni	60	-0.039	ug/L	0.015	39	583	473	5	KED
Ni	62	-0.001	ug/L	0.019	2688	99	90	4	KED
Cu	63	2.314	ug/L	0.048	2	88	10075	2	KED
Cu	65	2.401	ug/L	0.039	1	51	5134	1	KED
Zn	66	1.131	ug/L	0.005	0	128	757	0	KED
Zn	67	1.279	ug/L	0.235	18	17	133	17	KED
As	75	0.045	ug/L	0.007	15	4	17	10	KED
Se	78	-0.014	ug/L	0.112	782	20	18	17	KED
Y	89		ug/L			352824	305003	1	Standard
Kr	83		ug/L			41	46	9	Standard
In-1	115		ug/L			9999	8944	3	KED
Mo	98	2.681	ug/L	0.096	3	5	3556	1	KED
Cd	111	0.003	ug/L	0.014	441	5	6	65	KED
Cd	114	-0.001	ug/L	0.003	211	9	7	24	KED
In	115		ug/L			440562	420326	4	Standard
Ag	107	-0.000	ug/L	0.001	411	34	29	48	Standard
Sb	121	0.109	ug/L	0.003	2	252	1774	5	Standard
Sb	123	0.110	ug/L	0.001	0	192	1362	4	Standard
Ba	135	0.819	ug/L	0.009	1	54	3718	3	Standard
Ba	137	0.802	ug/L	0.042	5	99	6363	1	Standard
Tb	159		ug/L			801432	918352	1	Standard
Tl	205	0.002	ug/L	0.000	13	79	168	6	Standard
Pb	208	0.022	ug/L	0.001	5	302	1504	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLH
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 08:17:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			445315	553100	2	Standard
⌊	**Be**	**9**	**-0.001**	ug/L	0.000	25	4	1	86	Standard
	C	**13**		ug/L			28756	33248	1	Standard
	Cl	**37**		ug/L			1763477	1487888	2	Standard
⌈>	**Sc**	**45**		ug/L			604634	594381	2	Standard
⌈	**V**	**51**	**0.001**	ug/L	0.005	345	7658	7566	4	Standard
⌊	**V-1**	**51**	**0.047**	ug/L	0.002	4	354	1563	0	Standard
⌈	**Cr**	**52**	**0.013**	ug/L	0.018	139	22715	22607	4	Standard
⌊	**Cr**	**53**	**0.167**	ug/L	0.014	8	231	634	6	Standard
⌊	**Mn**	**55**	**-0.005**	ug/L	0.001	20	858	704	4	Standard
⌈>	**Ge**	**72**		ug/L			47144	46109	2	KED
⌈	**Co**	**59**	**-0.000**	ug/L	0.000	181	3	2	43	KED
⌊	**Ni**	**60**	**-0.340**	ug/L	0.004	1	583	12	45	KED
⌈	**Ni**	**62**	**-0.313**	ug/L	0.010	3	99	12	22	KED
⌈	**Cu**	**63**	**-0.000**	ug/L	0.001	776	88	85	2	KED
⌊	**Cu**	**65**	**-0.005**	ug/L	0.003	65	51	38	18	KED
⌈	**Zn**	**66**	**-0.134**	ug/L	0.012	8	128	43	15	KED
⌊	**Zn**	**67**	**-0.105**	ug/L	0.056	53	17	6	86	KED
⌈	**As**	**75**	**-0.001**	ug/L	0.001	165	4	4	11	KED
⌊	**Se**	**78**	**-0.138**	ug/L	0.011	8	20	15	4	KED
	Y	**89**		ug/L			352824	323434	3	Standard
	Kr	**83**		ug/L			41	42	6	Standard
⌈>	**In-1**	**115**		ug/L			9999	9789	2	KED
⌈	**Mo**	**98**	**-0.000**	ug/L	0.000	90	5	5	2	KED
⌈	**Cd**	**111**	**0.007**	ug/L	0.012	183	5	7	50	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.001	26	9	4	24	KED
⌈>	**In**	**115**		ug/L			440562	454400	5	Standard
⌈	**Ag**	**107**	**-0.001**	ug/L	0.000	27	34	13	51	Standard
⌈	**Sb**	**121**	**-0.013**	ug/L	0.000	3	252	64	10	Standard
⌊	**Sb**	**123**	**-0.013**	ug/L	0.001	9	192	41	37	Standard
⌈	**Ba**	**135**	**-0.000**	ug/L	0.002	524	54	54	19	Standard
⌊	**Ba**	**137**	**-0.003**	ug/L	0.002	67	99	80	17	Standard
⌈>	**Tb**	**159**		ug/L			801432	950607	4	Standard
⌈	**Tl**	**205**	**-0.000**	ug/L	0.000	380	79	90	10	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	17	302	219	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVG
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 08:22:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			445315	527176	4	Standard
	Be	**9**	**49.692**	ug/L	1.577	3	4	214505	0	Standard
	C	**13**		ug/L			28756	31623	1	Standard
	Cl	**37**		ug/L			1763477	1422200	1	Standard
>	**Sc**	**45**		ug/L			604634	594032	2	Standard
	V	**51**	**46.584**	ug/L	0.939	2	7658	1213688	1	Standard
	V-1	**51**	**46.757**	ug/L	0.989	2	354	1216011	0	Standard
	Cr	**52**	**46.868**	ug/L	0.725	1	22715	1020939	1	Standard
	Cr	**53**	**47.454**	ug/L	1.065	2	231	116108	0	Standard
	Mn	**55**	**47.643**	ug/L	1.149	2	858	1476818	0	Standard
>	**Ge**	**72**		ug/L			47144	44126	2	KED
	Co	**59**	**50.746**	ug/L	1.282	2	3	279356	3	KED
	Ni	**60**	**51.800**	ug/L	1.543	2	583	81835	4	KED
	Ni	**62**	**51.436**	ug/L	0.908	1	99	13317	3	KED
	Cu	**63**	**51.855**	ug/L	0.656	1	88	229979	3	KED
	Cu	**65**	**53.543**	ug/L	0.842	1	51	116451	2	KED
	Zn	**66**	**51.663**	ug/L	1.756	3	128	30148	4	KED
	Zn	**67**	**51.022**	ug/L	1.139	2	17	4828	4	KED
	As	**75**	**50.913**	ug/L	0.783	1	4	15806	3	KED
	Se	**78**	**49.240**	ug/L	1.344	2	20	1439	4	KED
	Y	**89**		ug/L			352824	337131	1	Standard
	Kr	**83**		ug/L			41	38	39	Standard
>	**In-1**	**115**		ug/L			9999	9220	2	KED
	Mo	**98**	**56.033**	ug/L	1.027	1	5	76544	1	KED
	Cd	**111**	**54.003**	ug/L	0.267	0	5	15312	2	KED
	Cd	**114**	**55.030**	ug/L	0.339	0	9	39984	1	KED
>	**In**	**115**		ug/L			440562	456584	0	Standard
	Ag	**107**	**45.908**	ug/L	0.216	0	34	855825	0	Standard
	Sb	**121**	**51.726**	ug/L	0.629	1	252	792265	1	Standard
	Sb	**123**	**52.215**	ug/L	0.603	1	192	610923	0	Standard
	Ba	**135**	**59.915**	ug/L	0.153	0	54	291342	0	Standard
	Ba	**137**	**61.600**	ug/L	0.540	0	99	524177	1	Standard
>	**Tb**	**159**		ug/L			801432	978357	1	Standard
	Tl	**205**	**57.519**	ug/L	1.012	1	79	2395062	3	Standard
	Pb	**208**	**52.320**	ug/L	0.363	0	302	2896534	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBG
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 08:30:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			445315	540285	2	Standard
	Be	**9**	**0.001**	ug/L	0.000	45	4	8	13	Standard
	C	**13**		ug/L			28756	32206	0	Standard
	Cl	**37**		ug/L			1763477	1505190	2	Standard
>	**Sc**	**45**		ug/L			604634	588661	1	Standard
	V	**51**	**-0.037**	ug/L	0.001	3	7658	6496	0	Standard
	V-1	**51**	**0.035**	ug/L	0.002	6	354	1250	3	Standard
	Cr	**52**	**-0.131**	ug/L	0.013	9	22715	19336	0	Standard
	Cr	**53**	**0.117**	ug/L	0.017	14	231	507	7	Standard
	Mn	**55**	**-0.001**	ug/L	0.001	49	858	795	2	Standard
>	**Ge**	**72**		ug/L			47144	45143	3	KED
	Co	**59**	**-0.000**	ug/L	0.000	130	3	1	173	KED
	Ni	**60**	**-0.331**	ug/L	0.006	1	583	27	34	KED
	Ni	**62**	**-0.312**	ug/L	0.017	5	99	12	31	KED
	Cu	**63**	**0.007**	ug/L	0.002	26	88	115	10	KED
	Cu	**65**	**0.004**	ug/L	0.005	124	51	57	15	KED
	Zn	**66**	**0.040**	ug/L	0.044	109	128	146	14	KED
	Zn	**67**	**0.153**	ug/L	0.063	41	17	31	18	KED
	As	**75**	**0.003**	ug/L	0.005	173	4	5	27	KED
	Se	**78**	**-0.004**	ug/L	0.121	2947	20	19	19	KED
	Y	**89**		ug/L			352824	333052	1	Standard
	Kr	**83**		ug/L			41	38	17	Standard
>	**In-1**	**115**		ug/L			9999	10140	1	KED
	Mo	**98**	**0.006**	ug/L	0.007	108	5	14	65	KED
	Cd	**111**	**-0.002**	ug/L	0.007	309	5	5	47	KED
	Cd	**114**	**0.002**	ug/L	0.004	234	9	10	28	KED
>	**In**	**115**		ug/L			440562	467272	1	Standard
	Ag	**107**	**0.001**	ug/L	0.000	13	34	55	3	Standard
	Sb	**121**	**0.037**	ug/L	0.004	9	252	843	6	Standard
	Sb	**123**	**0.042**	ug/L	0.006	14	192	708	9	Standard
	Ba	**135**	**0.012**	ug/L	0.004	32	54	118	17	Standard
	Ba	**137**	**0.012**	ug/L	0.002	16	99	212	9	Standard
>	**Tb**	**159**		ug/L			801432	958437	0	Standard
	Tl	**205**	**0.002**	ug/L	0.001	32	79	180	14	Standard
	Pb	**208**	**0.000**	ug/L	0.000	55	302	384	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0365-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, April 26, 2023 08:35:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			445315	515884	2	Standard
	Be	9	-0.000	ug/L	0.001	230	4	3	86	Standard
	C	13		ug/L			28756	40571	2	Standard
	Cl	37		ug/L			1763477	1495225	2	Standard
>	Sc	45		ug/L			604634	582384	2	Standard
	V	51	-0.030	ug/L	0.007	24	7658	6616	0	Standard
	V-1	51	0.033	ug/L	0.001	3	354	1176	3	Standard
	Cr	52	-0.102	ug/L	0.027	26	22715	19741	1	Standard
	Cr	53	0.112	ug/L	0.006	5	231	491	4	Standard
	Mn	55	0.003	ug/L	0.002	53	858	928	5	Standard
>	Ge	72		ug/L			47144	45548	2	KED
	Co	59	0.000	ug/L	0.000	969	3	3	34	KED
	Ni	60	-0.321	ug/L	0.006	1	583	43	24	KED
	Ni	62	-0.327	ug/L	0.008	2	99	8	24	KED
	Cu	63	0.020	ug/L	0.005	25	88	177	15	KED
	Cu	65	0.017	ug/L	0.003	18	51	88	8	KED
	Zn	66	-0.044	ug/L	0.017	37	128	97	11	KED
	Zn	67	-0.020	ug/L	0.027	138	17	14	15	KED
	As	75	0.001	ug/L	0.001	90	4	4	11	KED
	Se	78	-0.040	ug/L	0.060	149	20	18	12	KED
	Y	89		ug/L			352824	323620	2	Standard
	Kr	83		ug/L			41	41	21	Standard
>	In-1	115		ug/L			9999	9404	1	KED
	Mo	98	0.004	ug/L	0.001	28	5	11	12	KED
	Cd	111	0.005	ug/L	0.006	136	5	6	24	KED
	Cd	114	-0.007	ug/L	0.003	38	9	3	52	KED
>	In	115		ug/L			440562	455706	2	Standard
	Ag	107	-0.000	ug/L	0.001	169	34	30	28	Standard
	Sb	121	0.005	ug/L	0.002	32	252	340	7	Standard
	Sb	123	0.007	ug/L	0.002	30	192	276	6	Standard
	Ba	135	0.014	ug/L	0.001	9	54	123	3	Standard
	Ba	137	0.011	ug/L	0.001	13	99	194	3	Standard
>	Tb	159		ug/L			801432	935371	3	Standard
	Tl	205	0.000	ug/L	0.000	8	79	111	1	Standard
	Pb	208	0.009	ug/L	0.001	8	302	822	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0365-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, April 26, 2023 08:40:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			445315	554366	3	Standard
	Be	9	23.568	ug/L	0.970	4	4	106985	1	Standard
	C	13		ug/L			28756	39642	2	Standard
	Cl	37		ug/L			1763477	1511629	1	Standard
>	Sc	45		ug/L			604634	603297	3	Standard
	V	51	23.480	ug/L	0.654	2	7658	624773	1	Standard
	V-1	51	23.785	ug/L	0.701	2	354	628124	1	Standard
	Cr	52	23.645	ug/L	0.840	3	22715	533969	0	Standard
	Cr	53	24.684	ug/L	0.943	3	231	61410	0	Standard
	Mn	55	24.389	ug/L	0.608	2	858	768026	1	Standard
>	Ge	72		ug/L			47144	46139	1	KED
	Co	59	25.766	ug/L	0.196	0	3	148295	0	KED
	Ni	60	26.320	ug/L	0.403	1	583	43746	1	KED
	Ni	62	26.126	ug/L	0.206	0	99	7120	2	KED
	Cu	63	27.431	ug/L	0.298	1	88	127208	0	KED
	Cu	65	28.331	ug/L	0.065	0	51	64459	1	KED
	Zn	66	82.939	ug/L	1.351	1	128	50515	0	KED
	Zn	67	79.055	ug/L	1.067	1	17	7811	2	KED
	As	75	24.796	ug/L	0.132	0	4	8050	1	KED
	Se	78	75.393	ug/L	1.218	1	20	2293	1	KED
	Y	89		ug/L			352824	336409	1	Standard
	Kr	83		ug/L			41	49	23	Standard
>	In-1	115		ug/L			9999	9033	10	KED
	Mo	98	0.002	ug/L	0.003	172	5	7	61	KED
	Cd	111	27.960	ug/L	2.886	10	5	7715	3	KED
	Cd	114	28.081	ug/L	2.674	9	9	19861	2	KED
>	In	115		ug/L			440562	470063	1	Standard
	Ag	107	24.155	ug/L	0.470	1	34	463538	1	Standard
	Sb	121	-0.004	ug/L	0.002	43	252	201	15	Standard
	Sb	123	-0.003	ug/L	0.001	38	192	171	5	Standard
	Ba	135	30.204	ug/L	1.111	3	54	151176	2	Standard
	Ba	137	31.024	ug/L	1.066	3	99	271753	2	Standard
>	Tb	159		ug/L			801432	955989	1	Standard
	Tl	205	26.513	ug/L	0.380	1	79	1078488	0	Standard
	Pb	208	27.026	ug/L	0.286	1	302	1462175	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0735-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Wednesday, April 26, 2023 08:45:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			445315	489597	3	Standard
⌊	**Be**	**9**	**0.006**	ug/L	0.001	24	4	27	23	Standard
	C	**13**		ug/L			28756	176278	3	Standard
	Cl	**37**		ug/L			1763477	1281668	3	Standard
⌈>	**Sc**	**45**		ug/L			604634	576699	2	Standard
⌈	**V**	**51**	**8.556**	ug/L	0.151	1	7658	222454	3	Standard
⌊	**V-1**	**51**	**11.048**	ug/L	0.060	0	354	279281	2	Standard
⌈	**Cr**	**52**	**17.091**	ug/L	0.472	2	22715	375298	3	Standard
⌊	**Cr**	**53**	**25.455**	ug/L	0.220	0	231	60581	2	Standard
⌊	**Mn**	**55**	**87.658**	ug/L	1.533	1	858	2638806	4	Standard
⌈>	**Ge**	**72**		ug/L			47144	40757	4	KED
⌈	**Co**	**59**	**3.773**	ug/L	0.018	0	3	19186	4	KED
⌈	**Ni**	**60**	**18.999**	ug/L	0.315	1	583	28024	3	KED
⌊	**Ni**	**62**	**18.702**	ug/L	0.365	1	99	4527	5	KED
⌈	**Cu**	**63**	**2.322**	ug/L	0.029	1	88	9582	5	KED
⌊	**Cu**	**65**	**2.386**	ug/L	0.051	2	51	4833	2	KED
⌈	**Zn**	**66**	**9.719**	ug/L	0.415	4	128	5323	4	KED
⌊	**Zn**	**67**	**13.652**	ug/L	0.347	2	17	1203	4	KED
⌈	**As**	**75**	**7.795**	ug/L	0.071	0	4	2237	3	KED
⌊	**Se**	**78**	**0.283**	ug/L	0.056	19	20	25	5	KED
	Y	**89**		ug/L			352824	311203	2	Standard
	Kr	**83**		ug/L			41	55	40	Standard
⌈>	**In-1**	**115**		ug/L			9999	8824	1	KED
⌈	**Mo**	**98**	**1.510**	ug/L	0.041	2	5	1979	3	KED
⌈	**Cd**	**111**	**0.021**	ug/L	0.010	46	5	10	25	KED
⌊	**Cd**	**114**	**0.022**	ug/L	0.019	84	9	23	54	KED
⌈>	**In**	**115**		ug/L			440562	405026	4	Standard
⌈	**Ag**	**107**	**0.029**	ug/L	0.003	10	34	514	8	Standard
⌈	**Sb**	**121**	**0.663**	ug/L	0.022	3	252	9231	1	Standard
⌊	**Sb**	**123**	**0.661**	ug/L	0.021	3	192	7029	1	Standard
⌈	**Ba**	**135**	**96.211**	ug/L	2.171	2	54	414714	3	Standard
⌊	**Ba**	**137**	**97.788**	ug/L	2.170	2	99	737537	2	Standard
⌈>	**Tb**	**159**		ug/L			801432	858221	4	Standard
⌈	**Tl**	**205**	**0.002**	ug/L	0.001	21	79	173	12	Standard
⌊	**Pb**	**208**	**0.389**	ug/L	0.006	1	302	19210	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0658-06
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 08:50:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L			445315	490674	5	Standard
⌊	Be	9	-0.000	ug/L	0.000	70	4	3	34	Standard
	C	13		ug/L			28756	47794	2	Standard
	Cl	37		ug/L			1763477	1522985	1	Standard
⌈>	Sc	45		ug/L			604634	567438	3	Standard
⌈	V	51	0.008	ug/L	0.005	57	7658	7394	3	Standard
⌊	V-1	51	0.079	ug/L	0.004	5	354	2294	5	Standard
⌈	Cr	52	0.181	ug/L	0.003	1	22715	24996	3	Standard
⌊	Cr	53	0.419	ug/L	0.006	1	231	1193	3	Standard
	Mn	55	0.088	ug/L	0.004	4	858	3408	4	Standard
⌈>	Ge	72		ug/L			47144	46679	1	KED
⌈	Co	59	0.003	ug/L	0.001	21	3	17	16	KED
⌊	Ni	60	-0.303	ug/L	0.002	0	583	74	3	KED
	Ni	62	-0.272	ug/L	0.024	8	99	24	27	KED
⌈	Cu	63	0.070	ug/L	0.008	11	88	413	7	KED
⌊	Cu	65	0.073	ug/L	0.012	16	51	217	12	KED
⌈	Zn	66	0.511	ug/L	0.044	8	128	441	7	KED
⌊	Zn	67	0.499	ug/L	0.067	13	17	66	8	KED
⌈	As	75	0.006	ug/L	0.001	8	4	6	4	KED
⌊	Se	78	-0.114	ug/L	0.133	116	20	16	22	KED
	Y	89		ug/L			352824	319777	3	Standard
	Kr	83		ug/L			41	42	6	Standard
⌈>	In-1	115		ug/L			9999	9177	1	KED
⌈	Mo	98	0.010	ug/L	0.003	27	5	19	21	KED
⌊	Cd	111	0.001	ug/L	0.002	322	5	5	10	KED
	Cd	114	0.002	ug/L	0.004	211	9	9	30	KED
⌈>	In	115		ug/L			440562	440088	4	Standard
⌈	Ag	107	0.000	ug/L	0.001	208	34	41	30	Standard
⌈	Sb	121	-0.007	ug/L	0.002	28	252	147	22	Standard
⌊	Sb	123	-0.006	ug/L	0.001	20	192	126	13	Standard
⌈	Ba	135	0.085	ug/L	0.004	4	54	453	6	Standard
⌊	Ba	137	0.089	ug/L	0.011	12	99	824	8	Standard
⌈>	Tb	159		ug/L			801432	887837	1	Standard
⌈	Tl	205	0.000	ug/L	0.000	65	79	100	9	Standard
⌊	Pb	208	0.011	ug/L	0.000	3	302	870	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0678-09
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 08:55:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			445315	461665	2	Standard
	Be	9	0.003	ug/L	0.000	15	4	15	12	Standard
	C	13		ug/L			28756	53214	2	Standard
	Cl	37		ug/L			1763477	1358094	2	Standard
>	Sc	45		ug/L			604634	649509	3	Standard
	V	51	0.436	ug/L	0.017	3	7658	20579	4	Standard
	V-1	51	0.834	ug/L	0.015	1	354	24100	4	Standard
	Cr	52	0.279	ug/L	0.012	4	22715	30903	2	Standard
	Cr	53	1.636	ug/L	0.011	0	231	4618	4	Standard
	Mn	55	530.594	ug/L	6.549	1	858	17980287	3	Standard
>	Ge	72		ug/L			47144	41819	5	KED
	Co	59	0.268	ug/L	0.017	6	3	1398	4	KED
	Ni	60	0.662	ug/L	0.061	9	583	1499	3	KED
	Ni	62	0.691	ug/L	0.108	15	99	255	4	KED
	Cu	63	0.438	ug/L	0.029	6	88	1915	3	KED
	Cu	65	0.469	ug/L	0.002	0	51	1012	5	KED
	Zn	66	1.719	ug/L	0.075	4	128	1059	2	KED
	Zn	67	5.158	ug/L	0.162	3	17	475	2	KED
	As	75	0.526	ug/L	0.003	0	4	158	5	KED
	Se	78	0.158	ug/L	0.126	79	20	22	10	KED
	Y	89		ug/L			352824	307874	5	Standard
	Kr	83		ug/L			41	86	14	Standard
>	In-1	115		ug/L			9999	9116	2	KED
	Mo	98	0.154	ug/L	0.008	5	5	212	4	KED
	Cd	111	-0.000	ug/L	0.007	1436	5	5	39	KED
	Cd	114	0.005	ug/L	0.005	97	9	11	26	KED
>	In	115		ug/L			440562	403743	1	Standard
	Ag	107	0.000	ug/L	0.000	121	34	38	22	Standard
	Sb	121	0.170	ug/L	0.002	1	252	2527	2	Standard
	Sb	123	0.185	ug/L	0.006	3	192	2086	3	Standard
	Ba	135	68.987	ug/L	1.836	2	54	296703	4	Standard
	Ba	137	69.940	ug/L	1.148	1	99	526314	3	Standard
>	Tb	159		ug/L			801432	863395	3	Standard
	Tl	205	-0.000	ug/L	0.000	194	79	77	15	Standard
	Pb	208	0.034	ug/L	0.001	3	302	2006	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0678-08
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 09:00:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			445315	487401	4	Standard
	Be	9	0.003	ug/L	0.002	61	4	15	38	Standard
	C	13		ug/L			28756	51744	0	Standard
	Cl	37		ug/L			1763477	1363637	0	Standard
>	Sc	45		ug/L			604634	672477	2	Standard
	V	51	0.599	ug/L	0.015	2	7658	26062	1	Standard
	V-1	51	0.957	ug/L	0.021	2	354	28562	0	Standard
	Cr	52	0.356	ug/L	0.029	8	22715	33835	0	Standard
	Cr	53	1.579	ug/L	0.055	3	231	4622	2	Standard
	Mn	55	510.046	ug/L	24.059	4	858	17881344	2	Standard
>	Ge	72		ug/L			47144	40960	1	KED
	Co	59	0.185	ug/L	0.005	2	3	946	2	KED
	Ni	60	0.599	ug/L	0.017	2	583	1379	3	KED
	Ni	62	0.647	ug/L	0.064	9	99	240	7	KED
	Cu	63	0.537	ug/L	0.024	4	88	2285	2	KED
	Cu	65	0.571	ug/L	0.027	4	51	1196	5	KED
	Zn	66	4.431	ug/L	0.232	5	128	2502	5	KED
	Zn	67	7.338	ug/L	0.243	3	17	657	3	KED
	As	75	0.757	ug/L	0.021	2	4	222	2	KED
	Se	78	0.170	ug/L	0.089	52	20	22	9	KED
	Y	89		ug/L			352824	311126	1	Standard
	Kr	83		ug/L			41	86	12	Standard
>	In-1	115		ug/L			9999	8728	2	KED
	Mo	98	0.300	ug/L	0.022	7	5	392	5	KED
	Cd	111	0.018	ug/L	0.012	66	5	9	31	KED
	Cd	114	0.014	ug/L	0.008	57	9	17	29	KED
>	In	115		ug/L			440562	417663	0	Standard
	Ag	107	0.001	ug/L	0.001	70	34	46	20	Standard
	Sb	121	0.142	ug/L	0.007	4	252	2228	4	Standard
	Sb	123	0.146	ug/L	0.003	2	192	1748	2	Standard
	Ba	135	65.839	ug/L	2.074	3	54	292874	3	Standard
	Ba	137	68.473	ug/L	0.793	1	99	532940	0	Standard
>	Tb	159		ug/L			801432	887862	0	Standard
	Tl	205	0.000	ug/L	0.000	74	79	102	10	Standard
	Pb	208	0.330	ug/L	0.004	1	302	16910	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0732-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 09:05:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			445315	483645	6	Standard
	Be	9	0.009	ug/L	0.002	17	4	38	12	Standard
	C	13		ug/L			28756	48503	5	Standard
	Cl	37		ug/L			1763477	1282309	2	Standard
>	Sc	45		ug/L			604634	539001	6	Standard
	V	51	2.672	ug/L	0.022	0	7658	69606	6	Standard
	V-1	51	2.872	ug/L	0.015	0	354	68083	6	Standard
	Cr	52	0.367	ug/L	0.027	7	22715	27329	4	Standard
	Cr	53	1.080	ug/L	0.020	1	231	2601	8	Standard
	Mn	55	10.431	ug/L	0.198	1	858	293862	5	Standard
>	Ge	72		ug/L			47144	38107	2	KED
	Co	59	0.094	ug/L	0.005	4	3	448	2	KED
	Ni	60	0.444	ug/L	0.011	2	583	1072	1	KED
	Ni	62	0.369	ug/L	0.020	5	99	161	3	KED
	Cu	63	1.284	ug/L	0.026	2	88	4986	3	KED
	Cu	65	1.285	ug/L	0.020	1	51	2455	4	KED
	Zn	66	2.033	ug/L	0.079	3	128	1124	5	KED
	Zn	67	2.216	ug/L	0.090	4	17	194	4	KED
	As	75	1.488	ug/L	0.111	7	4	402	7	KED
	Se	78	0.759	ug/L	0.059	7	20	35	6	KED
	Y	89		ug/L			352824	275091	6	Standard
	Kr	83		ug/L			41	74	11	Standard
>	In-1	115		ug/L			9999	8267	2	KED
	Mo	98	12.254	ug/L	0.295	2	5	15010	1	KED
	Cd	111	0.022	ug/L	0.013	56	5	10	32	KED
	Cd	114	0.023	ug/L	0.004	16	9	22	12	KED
>	In	115		ug/L			440562	372379	4	Standard
	Ag	107	0.003	ug/L	0.001	20	34	71	15	Standard
	Sb	121	0.780	ug/L	0.022	2	252	9951	6	Standard
	Sb	123	0.817	ug/L	0.009	1	192	7955	3	Standard
	Ba	135	9.453	ug/L	0.121	1	54	37517	3	Standard
	Ba	137	9.861	ug/L	0.061	0	99	68500	4	Standard
>	Tb	159		ug/L			801432	887287	4	Standard
	Tl	205	0.057	ug/L	0.003	5	79	2239	0	Standard
	Pb	208	0.162	ug/L	0.003	1	302	8463	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0741-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 09:10:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			445315	488308	1	Standard
	Be	9	0.010	ug/L	0.001	6	4	45	6	Standard
	C	13		ug/L			28756	58973	1	Standard
	Cl	37		ug/L			1763477	1038960	5	Standard
>	Sc	45		ug/L			604634	711721	2	Standard
	V	51	1.241	ug/L	0.057	4	7658	47509	1	Standard
	V-1	51	1.743	ug/L	0.019	1	354	54728	0	Standard
	Cr	52	0.551	ug/L	0.062	11	22715	40786	1	Standard
	Cr	53	2.270	ug/L	0.072	3	231	6917	5	Standard
	Mn	55	2440.445	ug/L	72.343	2	858	90585968	1	Standard
>	Ge	72		ug/L			47144	37526	2	KED
	Co	59	0.419	ug/L	0.021	4	3	1962	4	KED
	Ni	60	0.773	ug/L	0.011	1	583	1496	3	KED
	Ni	62	0.775	ug/L	0.110	14	99	248	10	KED
	Cu	63	0.501	ug/L	0.032	6	88	1956	3	KED
	Cu	65	0.504	ug/L	0.049	9	51	970	6	KED
	Zn	66	1.368	ug/L	0.129	9	128	777	5	KED
	Zn	67	6.410	ug/L	0.766	11	17	528	13	KED
	As	75	1.187	ug/L	0.018	1	4	316	4	KED
	Se	78	0.221	ug/L	0.079	35	20	21	9	KED
	Y	89		ug/L			352824	295862	2	Standard
	Kr	83		ug/L			41	104	4	Standard
>	In-1	115		ug/L			9999	7882	0	KED
	Mo	98	0.122	ug/L	0.018	14	5	146	13	KED
	Cd	111	0.015	ug/L	0.008	51	5	8	24	KED
	Cd	114	-0.005	ug/L	0.007	133	9	3	110	KED
>	In	115		ug/L			440562	382369	1	Standard
	Ag	107	0.001	ug/L	0.001	57	34	44	19	Standard
	Sb	121	0.091	ug/L	0.003	3	252	1389	3	Standard
	Sb	123	0.090	ug/L	0.003	3	192	1050	3	Standard
	Ba	135	111.846	ug/L	2.760	2	54	455369	2	Standard
	Ba	137	115.267	ug/L	2.882	2	99	821381	3	Standard
>	Tb	159		ug/L			801432	881732	2	Standard
	Tl	205	-0.001	ug/L	0.000	42	79	66	15	Standard
	Pb	208	0.383	ug/L	0.010	2	302	19420	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0699-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 09:15:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			445315	492889	0	Standard
	Be	9	-0.000	ug/L	0.001	125	4	3	69	Standard
	C	13		ug/L			28756	83862	2	Standard
	Cl	37		ug/L			1763477	905665	2	Standard
>	Sc	45		ug/L			604634	563703	1	Standard
	V	51	0.972	ug/L	0.027	2	7658	31021	1	Standard
	V-1	51	1.116	ug/L	0.016	1	354	27867	0	Standard
	Cr	52	1.020	ug/L	0.037	3	22715	41805	0	Standard
	Cr	53	1.510	ug/L	0.014	0	231	3715	1	Standard
	Mn	55	1.128	ug/L	0.018	1	858	33956	0	Standard
>	Ge	72		ug/L			47144	41097	2	KED
	Co	59	0.028	ug/L	0.002	8	3	144	9	KED
	Ni	60	-0.073	ug/L	0.018	23	583	401	8	KED
	Ni	62	0.062	ug/L	0.077	123	99	100	16	KED
	Cu	63	15.051	ug/L	0.227	1	88	62201	0	KED
	Cu	65	15.290	ug/L	0.287	1	51	31003	2	KED
	Zn	66	4.437	ug/L	0.093	2	128	2513	3	KED
	Zn	67	4.316	ug/L	0.466	10	17	394	11	KED
	As	75	0.064	ug/L	0.004	6	4	22	4	KED
	Se	78	0.010	ug/L	0.125	1292	20	18	16	KED
	Y	89		ug/L			352824	303431	1	Standard
	Kr	83		ug/L			41	44	17	Standard
>	In-1	115		ug/L			9999	8040	1	KED
	Mo	98	0.708	ug/L	0.023	3	5	847	2	KED
	Cd	111	0.002	ug/L	0.005	228	5	5	21	KED
	Cd	114	-0.003	ug/L	0.009	257	9	5	106	KED
>	In	115		ug/L			440562	414697	0	Standard
	Ag	107	0.003	ug/L	0.000	14	34	75	7	Standard
	Sb	121	0.046	ug/L	0.004	8	252	881	6	Standard
	Sb	123	0.045	ug/L	0.006	12	192	663	8	Standard
	Ba	135	0.284	ug/L	0.014	4	54	1306	4	Standard
	Ba	137	0.308	ug/L	0.024	7	99	2470	7	Standard
>	Tb	159		ug/L			801432	938361	0	Standard
	Tl	205	0.001	ug/L	0.000	23	79	134	8	Standard
	Pb	208	0.013	ug/L	0.001	8	302	1038	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 09:20:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			445315	518243	1	Standard
⌊	**Be**	**9**	**-0.001**	ug/L	0.001	98	4	1	173	Standard
	C	**13**		ug/L			28756	31808	2	Standard
	Cl	**37**		ug/L			1763477	1454194	2	Standard
⌈>	**Sc**	**45**		ug/L			604634	564748	3	Standard
⌈	**V**	**51**	**-0.034**	ug/L	0.008	24	7658	6323	0	Standard
⌊	**V-1**	**51**	**0.024**	ug/L	0.001	5	354	934	0	Standard
⌈	**Cr**	**52**	**-0.124**	ug/L	0.032	25	22715	18685	0	Standard
⌊	**Cr**	**53**	**0.074**	ug/L	0.010	13	231	387	3	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.001	86	858	852	2	Standard
⌈>	**Ge**	**72**		ug/L			47144	43507	1	KED
⌈	**Co**	**59**	**-0.000**	ug/L	0.000	136	3	1	173	KED
⌈	**Ni**	**60**	**-0.339**	ug/L	0.004	1	583	13	51	KED
⌊	**Ni**	**62**	**-0.298**	ug/L	0.004	1	99	15	6	KED
⌈	**Cu**	**63**	**0.002**	ug/L	0.002	90	88	92	9	KED
⌊	**Cu**	**65**	**-0.002**	ug/L	0.003	115	51	42	14	KED
⌈	**Zn**	**66**	**-0.123**	ug/L	0.015	12	128	47	17	KED
⌊	**Zn**	**67**	**-0.095**	ug/L	0.042	43	17	6	56	KED
⌈	**As**	**75**	**-0.004**	ug/L	0.001	21	4	3	9	KED
⌊	**Se**	**78**	**-0.096**	ug/L	0.088	90	20	16	16	KED
	Y	**89**		ug/L			352824	310357	4	Standard
	Kr	**83**		ug/L			41	38	20	Standard
⌈>	**In-1**	**115**		ug/L			9999	9512	0	KED
⌈	**Mo**	**98**	**0.003**	ug/L	0.002	68	5	9	30	KED
⌈	**Cd**	**111**	**-0.007**	ug/L	0.004	58	5	3	31	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.004	153	9	6	46	KED
⌈>	**In**	**115**		ug/L			440562	433416	1	Standard
⌈	**Ag**	**107**	**-0.001**	ug/L	0.000	15	34	14	19	Standard
⌈	**Sb**	**121**	**-0.013**	ug/L	0.001	7	252	58	22	Standard
⌊	**Sb**	**123**	**-0.014**	ug/L	0.002	11	192	37	46	Standard
⌈	**Ba**	**135**	**-0.001**	ug/L	0.002	145	54	46	19	Standard
⌊	**Ba**	**137**	**-0.003**	ug/L	0.001	27	99	73	10	Standard
⌈>	**Tb**	**159**		ug/L			801432	925377	2	Standard
⌈	**Tl**	**205**	**-0.001**	ug/L	0.000	13	79	64	7	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	12	302	207	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVH
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 09:25:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			445315	475554	6	Standard
	Be	**9**	**49.633**	ug/L	2.525	5	4	193122	4	Standard
	C	**13**		ug/L			28756	32042	4	Standard
	Cl	**37**		ug/L			1763477	1412057	2	Standard
>	**Sc**	**45**		ug/L			604634	540382	4	Standard
	V	**51**	**47.185**	ug/L	1.582	3	7658	1117787	2	Standard
	V-1	**51**	**47.420**	ug/L	1.370	2	354	1121484	2	Standard
	Cr	**52**	**46.970**	ug/L	1.000	2	22715	930660	3	Standard
	Cr	**53**	**47.773**	ug/L	0.346	0	231	106346	3	Standard
	Mn	**55**	**47.532**	ug/L	1.697	3	858	1340387	4	Standard
>	**Ge**	**72**		ug/L			47144	43905	2	KED
	Co	**59**	**51.369**	ug/L	0.896	1	3	281322	2	KED
	Ni	**60**	**52.857**	ug/L	0.260	0	583	83055	2	KED
	Ni	**62**	**51.850**	ug/L	1.872	3	99	13357	5	KED
	Cu	**63**	**53.252**	ug/L	0.910	1	88	234928	2	KED
	Cu	**65**	**54.154**	ug/L	0.415	0	51	117192	2	KED
	Zn	**66**	**52.300**	ug/L	0.348	0	128	30363	3	KED
	Zn	**67**	**53.210**	ug/L	1.801	3	17	5007	4	KED
	As	**75**	**51.420**	ug/L	0.607	1	4	15880	2	KED
	Se	**78**	**49.671**	ug/L	0.294	0	20	1444	2	KED
	Y	**89**		ug/L			352824	301321	3	Standard
	Kr	**83**		ug/L			41	46	13	Standard
>	**In-1**	**115**		ug/L			9999	9569	1	KED
	Mo	**98**	**55.369**	ug/L	0.686	1	5	78506	0	KED
	Cd	**111**	**54.683**	ug/L	0.846	1	5	16090	1	KED
	Cd	**114**	**54.554**	ug/L	1.390	2	9	41136	1	KED
>	**In**	**115**		ug/L			440562	416141	2	Standard
	Ag	**107**	**46.375**	ug/L	0.907	1	34	787849	2	Standard
	Sb	**121**	**50.671**	ug/L	0.887	1	252	707341	3	Standard
	Sb	**123**	**53.126**	ug/L	0.859	1	192	566504	2	Standard
	Ba	**135**	**60.302**	ug/L	1.365	2	54	267229	3	Standard
	Ba	**137**	**60.624**	ug/L	2.449	4	99	470498	6	Standard
>	**Tb**	**159**		ug/L			801432	900171	4	Standard
	Tl	**205**	**53.216**	ug/L	3.864	7	79	2039986	9	Standard
	Pb	**208**	**51.023**	ug/L	0.995	1	302	2597704	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBH
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 09:33:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			445315	520842	1	Standard
⌊	**Be**	**9**	**-0.000**	ug/L	0.001	503	4	4	89	Standard
	C	**13**		ug/L			28756	31426	2	Standard
	Cl	**37**		ug/L			1763477	1506823	1	Standard
⌈>	**Sc**	**45**		ug/L			604634	579784	1	Standard
⌈	**V**	**51**	**-0.033**	ug/L	0.006	18	7658	6502	3	Standard
⌊	**V-1**	**51**	**0.016**	ug/L	0.001	4	354	750	1	Standard
⌈	**Cr**	**52**	**-0.126**	ug/L	0.013	10	22715	19164	2	Standard
⌊	**Cr**	**53**	**0.044**	ug/L	0.008	17	231	326	4	Standard
	Mn	**55**	**0.002**	ug/L	0.001	33	858	869	3	Standard
⌈>	**Ge**	**72**		ug/L			47144	42740	1	KED
⌈	**Co**	**59**	**0.001**	ug/L	0.001	80	3	7	50	KED
⌊	**Ni**	**60**	**-0.335**	ug/L	0.006	1	583	19	45	KED
⌈	**Ni**	**62**	**-0.335**	ug/L	0.019	5	99	6	75	KED
⌊	**Cu**	**63**	**0.005**	ug/L	0.001	20	88	101	6	KED
⌈	**Cu**	**65**	**0.007**	ug/L	0.003	43	51	60	9	KED
⌊	**Zn**	**66**	**0.079**	ug/L	0.011	14	128	160	5	KED
⌈	**Zn**	**67**	**0.087**	ug/L	0.055	63	17	23	20	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.003	77	4	3	22	KED
	Se	**78**	**0.056**	ug/L	0.077	138	20	20	11	KED
	Y	**89**		ug/L			352824	326844	1	Standard
	Kr	**83**		ug/L			41	38	20	Standard
⌈>	**In-1**	**115**		ug/L			9999	9587	2	KED
⌈	**Mo**	**98**	**0.011**	ug/L	0.001	9	5	20	4	KED
⌊	**Cd**	**111**	**0.002**	ug/L	0.004	205	5	6	18	KED
	Cd	**114**	**-0.003**	ug/L	0.005	187	9	6	58	KED
⌈>	**In**	**115**		ug/L			440562	455627	1	Standard
⌈	**Ag**	**107**	**0.001**	ug/L	0.001	64	34	51	19	Standard
⌈	**Sb**	**121**	**0.037**	ug/L	0.001	3	252	822	3	Standard
⌊	**Sb**	**123**	**0.037**	ug/L	0.004	11	192	632	8	Standard
⌈	**Ba**	**135**	**0.012**	ug/L	0.001	7	54	113	3	Standard
⌊	**Ba**	**137**	**0.013**	ug/L	0.001	6	99	211	2	Standard
⌈>	**Tb**	**159**		ug/L			801432	947112	1	Standard
⌈	**Tl**	**205**	**0.002**	ug/L	0.000	16	79	178	7	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	38	302	365	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0736-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 09:38:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			445315	485374	3	Standard
	Be	9	0.005	ug/L	0.000	7	4	22	8	Standard
	C	13		ug/L			28756	49726	2	Standard
	Cl	37		ug/L			1763477	1166270	1	Standard
>	Sc	45		ug/L			604634	607317	4	Standard
	V	51	0.937	ug/L	0.041	4	7658	32495	4	Standard
	V-1	51	1.062	ug/L	0.033	3	354	28570	4	Standard
	Cr	52	0.488	ug/L	0.027	5	22715	33446	3	Standard
	Cr	53	0.918	ug/L	0.003	0	231	2524	4	Standard
	Mn	55	0.292	ug/L	0.009	3	858	10118	1	Standard
>	Ge	72		ug/L			47144	40027	0	KED
	Co	59	0.043	ug/L	0.003	7	3	216	7	KED
	Ni	60	0.954	ug/L	0.100	10	583	1853	7	KED
	Ni	62	0.794	ug/L	0.091	11	99	269	8	KED
	Cu	63	6.242	ug/L	0.192	3	88	25176	3	KED
	Cu	65	6.601	ug/L	0.150	2	51	13063	2	KED
	Zn	66	15.085	ug/L	0.447	2	128	8061	3	KED
	Zn	67	18.475	ug/L	1.239	6	17	1594	6	KED
	As	75	1.118	ug/L	0.039	3	4	318	3	KED
	Se	78	3.498	ug/L	0.305	8	20	108	6	KED
	Y	89		ug/L			352824	282026	2	Standard
	Kr	83		ug/L			41	54	20	Standard
>	In-1	115		ug/L			9999	8763	1	KED
	Mo	98	2.821	ug/L	0.073	2	5	3667	3	KED
	Cd	111	0.082	ug/L	0.009	11	5	26	8	KED
	Cd	114	0.078	ug/L	0.017	22	9	61	19	KED
>	In	115		ug/L			440562	392309	1	Standard
	Ag	107	0.003	ug/L	0.001	23	34	78	14	Standard
	Sb	121	0.097	ug/L	0.004	3	252	1494	4	Standard
	Sb	123	0.106	ug/L	0.009	8	192	1234	7	Standard
	Ba	135	86.634	ug/L	2.720	3	54	361958	3	Standard
	Ba	137	87.478	ug/L	1.633	1	99	639574	2	Standard
>	Tb	159		ug/L			801432	894728	2	Standard
	Tl	205	0.002	ug/L	0.000	12	79	177	3	Standard
	Pb	208	1.491	ug/L	0.020	1	302	75840	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0736-03
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 09:43:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			445315	520263	2	Standard
	Be	9	0.000	ug/L	0.001	518	4	6	96	Standard
	C	13		ug/L			28756	49918	2	Standard
	Cl	37		ug/L			1763477	1140423	1	Standard
>	Sc	45		ug/L			604634	598099	0	Standard
	V	51	1.229	ug/L	0.015	1	7658	39625	1	Standard
	V-1	51	1.330	ug/L	0.016	1	354	35176	1	Standard
	Cr	52	0.617	ug/L	0.021	3	22715	35708	0	Standard
	Cr	53	0.969	ug/L	0.012	1	231	2612	0	Standard
	Mn	55	56.817	ug/L	1.326	2	858	1773747	2	Standard
>	Ge	72		ug/L			47144	38318	3	KED
	Co	59	0.472	ug/L	0.024	5	3	2259	4	KED
	Ni	60	2.590	ug/L	0.055	2	583	4004	4	KED
	Ni	62	2.555	ug/L	0.382	14	99	648	9	KED
	Cu	63	1.214	ug/L	0.006	0	88	4743	3	KED
	Cu	65	1.267	ug/L	0.042	3	51	2432	1	KED
	Zn	66	2.076	ug/L	0.283	13	128	1149	9	KED
	Zn	67	4.733	ug/L	0.250	5	17	401	8	KED
	As	75	1.615	ug/L	0.067	4	4	438	2	KED
	Se	78	38.198	ug/L	1.422	3	20	972	1	KED
	Y	89		ug/L			352824	288984	0	Standard
	Kr	83		ug/L			41	59	5	Standard
>	In-1	115		ug/L			9999	8725	0	KED
	Mo	98	7.712	ug/L	0.177	2	5	9975	2	KED
	Cd	111	0.080	ug/L	0.009	11	5	26	9	KED
	Cd	114	0.106	ug/L	0.003	3	9	80	2	KED
>	In	115		ug/L			440562	408780	1	Standard
	Ag	107	0.002	ug/L	0.001	29	34	66	14	Standard
	Sb	121	0.482	ug/L	0.012	2	252	6847	1	Standard
	Sb	123	0.503	ug/L	0.023	4	192	5446	3	Standard
	Ba	135	74.483	ug/L	1.122	1	54	324283	2	Standard
	Ba	137	76.893	ug/L	1.595	2	99	585724	2	Standard
>	Tb	159		ug/L			801432	951621	1	Standard
	Tl	205	0.007	ug/L	0.001	18	79	376	13	Standard
	Pb	208	0.054	ug/L	0.001	1	302	3280	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0736-05
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 09:48:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			445315	522675	5	Standard
	Be	9	0.001	ug/L	0.000	60	4	8	26	Standard
	C	13		ug/L			28756	49649	2	Standard
	Cl	37		ug/L			1763477	1146670	3	Standard
>	Sc	45		ug/L			604634	603854	4	Standard
	V	51	0.648	ug/L	0.022	3	7658	24696	2	Standard
	V-1	51	0.749	ug/L	0.013	1	354	20147	2	Standard
	Cr	52	0.067	ug/L	0.031	45	22715	24124	2	Standard
	Cr	53	0.419	ug/L	0.004	1	231	1271	4	Standard
	Mn	55	0.102	ug/L	0.004	4	858	4063	2	Standard
>	Ge	72		ug/L			47144	39879	1	KED
	Co	59	0.010	ug/L	0.003	26	3	50	24	KED
	Ni	60	0.371	ug/L	0.030	8	583	1019	3	KED
	Ni	62	0.331	ug/L	0.082	24	99	160	11	KED
	Cu	63	8.415	ug/L	0.101	1	88	33780	0	KED
	Cu	65	8.676	ug/L	0.166	1	51	17089	1	KED
	Zn	66	14.627	ug/L	0.287	1	128	7790	1	KED
	Zn	67	15.927	ug/L	1.002	6	17	1370	4	KED
	As	75	1.088	ug/L	0.023	2	4	309	0	KED
	Se	78	6.818	ug/L	0.426	6	20	194	4	KED
	Y	89		ug/L			352824	284057	1	Standard
	Kr	83		ug/L			41	62	22	Standard
>	In-1	115		ug/L			9999	8717	2	KED
	Mo	98	13.239	ug/L	0.474	3	5	17098	1	KED
	Cd	111	0.024	ug/L	0.017	69	5	11	38	KED
	Cd	114	0.000	ug/L	0.011	2630	9	8	89	KED
>	In	115		ug/L			440562	403568	1	Standard
	Ag	107	0.003	ug/L	0.000	7	34	79	3	Standard
	Sb	121	0.081	ug/L	0.001	1	252	1324	0	Standard
	Sb	123	0.086	ug/L	0.006	6	192	1067	5	Standard
	Ba	135	47.343	ug/L	1.114	2	54	203525	3	Standard
	Ba	137	49.636	ug/L	0.974	1	99	373388	3	Standard
>	Tb	159		ug/L			801432	968037	5	Standard
	Tl	205	0.003	ug/L	0.001	23	79	212	14	Standard
	Pb	208	0.463	ug/L	0.011	2	302	25703	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0736-07
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 09:54:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	Li	6		ug/L			445315	489274	3	Standard
[	Be	9	0.001	ug/L	0.001	61	4	10	36	Standard
	C	13		ug/L			28756	50527	1	Standard
	Cl	37		ug/L			1763477	1023197	1	Standard
[>	Sc	45		ug/L			604634	554425	3	Standard
[	V	51	-0.002	ug/L	0.003	109	7658	6965	3	Standard
[	V-1	51	0.064	ug/L	0.001	1	354	1872	4	Standard
[	Cr	52	-0.025	ug/L	0.022	90	22715	20330	2	Standard
[	Cr	53	0.201	ug/L	0.010	5	231	668	1	Standard
[	Mn	55	147.625	ug/L	3.543	2	858	4268146	1	Standard
[>	Ge	72		ug/L			47144	37830	1	KED
[	Co	59	0.151	ug/L	0.014	9	3	713	10	KED
[	Ni	60	2.008	ug/L	0.067	3	583	3169	4	KED
[	Ni	62	1.984	ug/L	0.047	2	99	516	3	KED
[	Cu	63	0.328	ug/L	0.010	3	88	1315	2	KED
[	Cu	65	0.334	ug/L	0.042	12	51	663	10	KED
[	Zn	66	1.735	ug/L	0.089	5	128	967	3	KED
[	Zn	67	3.139	ug/L	0.539	17	17	267	17	KED
[	As	75	0.290	ug/L	0.023	7	4	80	8	KED
[	Se	78	0.140	ug/L	0.155	110	20	19	19	KED
	Y	89		ug/L			352824	265014	2	Standard
	Kr	83		ug/L			41	60	11	Standard
[>	In-1	115		ug/L			9999	8452	1	KED
[	Mo	98	21.277	ug/L	0.359	1	5	26652	2	KED
[	Cd	111	0.037	ug/L	0.022	58	5	14	39	KED
[	Cd	114	0.034	ug/L	0.018	53	9	30	41	KED
[>	In	115		ug/L			440562	383126	1	Standard
[	Ag	107	0.001	ug/L	0.001	79	34	50	31	Standard
[	Sb	121	0.053	ug/L	0.002	2	252	902	0	Standard
[	Sb	123	0.056	ug/L	0.002	3	192	715	0	Standard
[	Ba	135	39.543	ug/L	1.357	3	54	161299	2	Standard
[	Ba	137	41.119	ug/L	0.421	1	99	293618	2	Standard
[>	Tb	159		ug/L			801432	929892	2	Standard
[	Tl	205	0.012	ug/L	0.000	2	79	565	4	Standard
[	Pb	208	0.035	ug/L	0.002	4	302	2205	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0736-11
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 09:59:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			445315	502938	4	Standard
	Be	9	0.003	ug/L	0.000	14	4	16	13	Standard
	C	13		ug/L			28756	48122	4	Standard
	Cl	37		ug/L			1763477	1085599	1	Standard
>	Sc	45		ug/L			604634	564265	3	Standard
	V	51	-0.032	ug/L	0.011	35	7658	6361	5	Standard
	V-1	51	0.040	ug/L	0.002	3	354	1308	5	Standard
	Cr	52	-0.055	ug/L	0.016	28	22715	20090	4	Standard
	Cr	53	0.189	ug/L	0.020	10	231	654	9	Standard
	Mn	55	86.128	ug/L	1.697	1	858	2537397	5	Standard
>	Ge	72		ug/L			47144	38293	2	KED
	Co	59	0.483	ug/L	0.011	2	3	2310	3	KED
	Ni	60	2.205	ug/L	0.108	4	583	3476	4	KED
	Ni	62	2.073	ug/L	0.047	2	99	542	2	KED
	Cu	63	0.605	ug/L	0.002	0	88	2397	2	KED
	Cu	65	0.647	ug/L	0.028	4	51	1261	2	KED
	Zn	66	8.173	ug/L	0.166	2	128	4226	3	KED
	Zn	67	8.748	ug/L	0.396	4	17	729	4	KED
	As	75	0.615	ug/L	0.019	3	4	169	4	KED
	Se	78	-0.024	ug/L	0.115	476	20	15	18	KED
	Y	89		ug/L			352824	271914	4	Standard
	Kr	83		ug/L			41	52	14	Standard
>	In-1	115		ug/L			9999	8611	1	KED
	Mo	98	39.021	ug/L	0.660	1	5	49789	0	KED
	Cd	111	0.010	ug/L	0.006	59	5	7	21	KED
	Cd	114	0.002	ug/L	0.000	3	9	9	1	KED
>	In	115		ug/L			440562	391260	4	Standard
	Ag	107	-0.000	ug/L	0.000	225	34	27	30	Standard
	Sb	121	0.134	ug/L	0.004	3	252	1983	5	Standard
	Sb	123	0.132	ug/L	0.002	1	192	1493	3	Standard
	Ba	135	31.462	ug/L	0.689	2	54	131035	2	Standard
	Ba	137	32.221	ug/L	0.365	1	99	235000	4	Standard
>	Tb	159		ug/L			801432	938522	2	Standard
	Tl	205	0.001	ug/L	0.000	14	79	142	7	Standard
	Pb	208	0.049	ug/L	0.001	2	302	2948	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0736-09
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 10:04:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			445315	477301	1	Standard
	Be	9	0.003	ug/L	0.000	16	4	15	12	Standard
	C	13		ug/L			28756	51022	2	Standard
	Cl	37		ug/L			1763477	1110077	1	Standard
>	Sc	45		ug/L			604634	537772	1	Standard
	V	51	-0.018	ug/L	0.011	58	7658	6386	3	Standard
	V-1	51	0.050	ug/L	0.001	2	354	1483	3	Standard
	Cr	52	-0.016	ug/L	0.029	184	22715	19893	2	Standard
	Cr	53	0.215	ug/L	0.007	3	231	680	2	Standard
	Mn	55	87.837	ug/L	1.840	2	858	2464716	1	Standard
>	Ge	72		ug/L			47144	38627	3	KED
	Co	59	0.498	ug/L	0.026	5	3	2401	2	KED
	Ni	60	2.216	ug/L	0.061	2	583	3523	5	KED
	Ni	62	2.270	ug/L	0.111	4	99	592	7	KED
	Cu	63	0.705	ug/L	0.013	1	88	2807	1	KED
	Cu	65	0.744	ug/L	0.048	6	51	1456	5	KED
	Zn	66	10.166	ug/L	0.264	2	128	5273	0	KED
	Zn	67	10.970	ug/L	0.399	3	17	918	0	KED
	As	75	0.699	ug/L	0.035	4	4	193	3	KED
	Se	78	0.103	ug/L	0.109	105	20	19	12	KED
	Y	89		ug/L			352824	263248	2	Standard
	Kr	83		ug/L			41	57	23	Standard
>	In-1	115		ug/L			9999	8220	0	KED
	Mo	98	39.181	ug/L	0.282	0	5	47725	0	KED
	Cd	111	0.009	ug/L	0.006	61	5	6	20	KED
	Cd	114	0.007	ug/L	0.009	137	9	11	49	KED
>	In	115		ug/L			440562	364338	0	Standard
	Ag	107	0.000	ug/L	0.000	298	34	29	9	Standard
	Sb	121	0.178	ug/L	0.001	0	252	2387	0	Standard
	Sb	123	0.190	ug/L	0.010	5	192	1933	4	Standard
	Ba	135	33.117	ug/L	1.168	3	54	128518	3	Standard
	Ba	137	33.988	ug/L	0.523	1	99	230815	1	Standard
>	Tb	159		ug/L			801432	907437	2	Standard
	Tl	205	0.001	ug/L	0.001	48	79	142	16	Standard
	Pb	208	0.061	ug/L	0.001	1	302	3487	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0347-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 10:09:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			445315	507143	6	Standard
	Be	9	0.003	ug/L	0.001	29	4	15	18	Standard
	C	13		ug/L			28756	51959	3	Standard
	Cl	37		ug/L			1763477	1098027	4	Standard
>	Sc	45		ug/L			604634	575608	6	Standard
	V	51	-0.021	ug/L	0.012	57	7658	6744	3	Standard
	V-1	51	0.045	ug/L	0.003	5	354	1475	6	Standard
	Cr	52	-0.024	ug/L	0.052	220	22715	21088	1	Standard
	Cr	53	0.203	ug/L	0.023	11	231	698	4	Standard
	Mn	55	86.598	ug/L	1.683	1	858	2599396	4	Standard
>	Ge	72		ug/L			47144	37947	3	KED
	Co	59	0.506	ug/L	0.010	2	3	2398	1	KED
	Ni	60	2.201	ug/L	0.099	4	583	3439	5	KED
	Ni	62	2.241	ug/L	0.217	9	99	575	8	KED
	Cu	63	0.755	ug/L	0.017	2	88	2948	2	KED
	Cu	65	0.784	ug/L	0.070	8	51	1504	6	KED
	Zn	66	10.008	ug/L	0.449	4	128	5103	4	KED
	Zn	67	10.541	ug/L	0.431	4	17	867	2	KED
	As	75	0.684	ug/L	0.036	5	4	186	7	KED
	Se	78	0.102	ug/L	0.087	85	20	18	11	KED
	Y	89		ug/L			352824	281143	5	Standard
	Kr	83		ug/L			41	48	4	Standard
>	In-1	115		ug/L			9999	8376	1	KED
	Mo	98	38.105	ug/L	0.677	1	5	47291	0	KED
	Cd	111	0.009	ug/L	0.009	108	5	6	34	KED
	Cd	114	0.001	ug/L	0.006	550	9	8	47	KED
>	In	115		ug/L			440562	396124	4	Standard
	Ag	107	0.000	ug/L	0.000	278	34	33	21	Standard
	Sb	121	0.178	ug/L	0.009	5	252	2586	3	Standard
	Sb	123	0.185	ug/L	0.005	2	192	2050	2	Standard
	Ba	135	31.226	ug/L	0.727	2	54	131659	2	Standard
	Ba	137	32.102	ug/L	0.356	1	99	236979	4	Standard
>	Tb	159		ug/L			801432	929366	6	Standard
	Tl	205	0.001	ug/L	0.000	29	79	147	5	Standard
	Pb	208	0.061	ug/L	0.004	6	302	3572	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0347-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 10:14:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L			445315	495344	0	Standard
⌊	Be	9	23.509	ug/L	0.650	2	4	95451	3	Standard
	C	13		ug/L			28756	49053	0	Standard
	Cl	37		ug/L			1763477	1035569	1	Standard
⌈>	Sc	45		ug/L			604634	574206	0	Standard
⌈	V	51	22.565	ug/L	0.243	1	7658	572175	1	Standard
⌊	V-1	51	22.759	ug/L	0.238	1	354	572480	1	Standard
⌈	Cr	52	21.992	ug/L	0.333	1	22715	474621	1	Standard
⌊	Cr	53	22.661	ug/L	0.326	1	231	53729	1	Standard
⌊	Mn	55	109.727	ug/L	1.565	1	858	3287800	1	Standard
⌈>	Ge	72		ug/L			47144	38880	1	KED
⌈	Co	59	26.580	ug/L	0.213	0	3	128922	1	KED
⌊	Ni	60	27.911	ug/L	0.026	0	583	39067	1	KED
	Ni	62	28.253	ug/L	0.217	0	99	6482	2	KED
⌈	Cu	63	25.730	ug/L	0.078	0	88	100565	1	KED
⌊	Cu	65	26.651	ug/L	0.254	0	51	51102	2	KED
⌈	Zn	66	84.349	ug/L	1.390	1	128	43299	2	KED
⌊	Zn	67	81.000	ug/L	1.597	1	17	6743	2	KED
⌈	As	75	27.257	ug/L	0.191	0	4	7457	2	KED
⌊	Se	78	79.647	ug/L	0.976	1	20	2040	0	KED
	Y	89		ug/L			352824	289307	1	Standard
	Kr	83		ug/L			41	53	4	Standard
⌈>	In-1	115		ug/L			9999	8318	3	KED
⌈	Mo	98	71.627	ug/L	0.570	0	5	88282	3	KED
⌊	Cd	111	27.711	ug/L	0.529	1	5	7089	2	KED
⌊	Cd	114	27.168	ug/L	0.753	2	9	17804	1	KED
⌈>	In	115		ug/L			440562	392819	1	Standard
⌈	Ag	107	21.542	ug/L	0.350	1	34	345564	2	Standard
⌊	Sb	121	28.391	ug/L	0.409	1	252	374226	1	Standard
⌈	Sb	123	29.130	ug/L	0.209	0	192	293342	1	Standard
⌈	Ba	135	62.540	ug/L	0.252	0	54	261627	1	Standard
⌊	Ba	137	65.114	ug/L	1.187	1	99	476611	1	Standard
⌈>	Tb	159		ug/L			801432	942991	2	Standard
⌈	Tl	205	25.575	ug/L	0.410	1	79	1026128	1	Standard
⌊	Pb	208	24.974	ug/L	0.163	0	302	1332775	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0347-MSD1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 10:21:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	Li	6		ug/L			445315	493690	0	Standard
⌊	Be	9	23.342	ug/L	0.633	2	4	94449	3	Standard
	C	13		ug/L			28756	48875	0	Standard
	Cl	37		ug/L			1763477	1073161	2	Standard
⌈>	Sc	45		ug/L			604634	558676	2	Standard
⌈	V	51	22.644	ug/L	0.805	3	7658	558296	1	Standard
⌊	V-1	51	22.752	ug/L	0.857	3	354	556494	1	Standard
⌈	Cr	52	22.420	ug/L	0.388	1	22715	470228	0	Standard
⌊	Cr	53	22.794	ug/L	0.567	2	231	52559	0	Standard
⌊	Mn	55	109.591	ug/L	3.257	2	858	3193606	1	Standard
⌈>	Ge	72		ug/L			47144	40050	3	KED
⌈	Co	59	26.803	ug/L	0.511	1	3	133865	2	KED
⌊	Ni	60	28.785	ug/L	0.388	1	583	41478	2	KED
	Ni	62	28.633	ug/L	0.881	3	99	6760	1	KED
⌈	Cu	63	26.412	ug/L	0.244	0	88	106317	2	KED
⌊	Cu	65	27.341	ug/L	0.651	2	51	53969	1	KED
⌈	Zn	66	86.746	ug/L	0.620	0	128	45858	3	KED
⌊	Zn	67	83.471	ug/L	1.594	1	17	7157	3	KED
⌈	As	75	27.890	ug/L	0.198	0	4	7858	2	KED
⌊	Se	78	82.963	ug/L	2.441	2	20	2187	1	KED
	Y	89		ug/L			352824	285417	1	Standard
	Kr	83		ug/L			41	49	13	Standard
⌈>	In-1	115		ug/L			9999	8638	2	KED
⌈	Mo	98	70.289	ug/L	1.335	1	5	89946	1	KED
⌈	Cd	111	27.440	ug/L	0.601	2	5	7288	0	KED
⌊	Cd	114	27.171	ug/L	0.327	1	9	18500	2	KED
⌈>	In	115		ug/L			440562	393278	0	Standard
⌈	Ag	107	21.732	ug/L	0.197	0	34	349000	1	Standard
⌈	Sb	121	27.519	ug/L	0.500	1	252	363141	1	Standard
⌊	Sb	123	28.286	ug/L	0.385	1	192	285138	0	Standard
⌈	Ba	135	60.292	ug/L	0.879	1	54	252545	2	Standard
⌊	Ba	137	62.823	ug/L	1.053	1	99	460395	0	Standard
⌈>	Tb	159		ug/L			801432	914182	2	Standard
⌈	Tl	205	25.085	ug/L	0.239	0	79	975981	2	Standard
⌊	Pb	208	24.991	ug/L	0.323	1	302	1292794	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLJ
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 10:25:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			445315	548650	2	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.001	2121	4	5	66	Standard
	C	**13**		ug/L			28756	33265	4	Standard
	Cl	**37**		ug/L			1763477	1488551	2	Standard
⌈>	**Sc**	**45**		ug/L			604634	579641	4	Standard
⌈	**V**	**51**	**-0.017**	ug/L	0.013	78	7658	6896	0	Standard
⌊	**V-1**	**51**	**0.006**	ug/L	0.001	23	354	486	4	Standard
⌈	**Cr**	**52**	**-0.071**	ug/L	0.046	65	22715	20275	0	Standard
⌊	**Cr**	**53**	**0.008**	ug/L	0.004	52	231	241	2	Standard
⌊	**Mn**	**55**	**-0.004**	ug/L	0.001	26	858	691	1	Standard
⌈>	**Ge**	**72**		ug/L			47144	43424	3	KED
⌈	**Co**	**59**	**0.001**	ug/L	0.000	24	3	9	20	KED
⌊	**Ni**	**60**	**-0.339**	ug/L	0.003	0	583	13	31	KED
⌈	**Ni**	**62**	**-0.343**	ug/L	0.004	1	99	4	24	KED
⌈	**Cu**	**63**	**0.002**	ug/L	0.002	83	88	90	4	KED
⌊	**Cu**	**65**	**-0.004**	ug/L	0.002	48	51	38	7	KED
⌈	**Zn**	**66**	**-0.114**	ug/L	0.021	18	128	52	22	KED
⌊	**Zn**	**67**	**-0.060**	ug/L	0.056	93	17	10	47	KED
⌈	**As**	**75**	**0.003**	ug/L	0.005	155	4	5	27	KED
⌊	**Se**	**78**	**-0.026**	ug/L	0.085	328	20	18	13	KED
	Y	**89**		ug/L			352824	316061	0	Standard
	Kr	**83**		ug/L			41	33	28	Standard
⌈>	**In-1**	**115**		ug/L			9999	9201	4	KED
⌈	**Mo**	**98**	**0.016**	ug/L	0.007	41	5	27	30	KED
⌊	**Cd**	**111**	**0.005**	ug/L	0.007	134	5	6	28	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.002	34	9	4	23	KED
⌈>	**In**	**115**		ug/L			440562	444956	3	Standard
⌈	**Ag**	**107**	**-0.000**	ug/L	0.000	109	34	28	29	Standard
⌈	**Sb**	**121**	**-0.009**	ug/L	0.001	13	252	123	17	Standard
⌊	**Sb**	**123**	**-0.010**	ug/L	0.002	18	192	82	27	Standard
⌈	**Ba**	**135**	**-0.003**	ug/L	0.001	40	54	38	19	Standard
⌊	**Ba**	**137**	**-0.005**	ug/L	0.002	38	99	62	21	Standard
⌈>	**Tb**	**159**		ug/L			801432	957156	1	Standard
⌈	**Tl**	**205**	**-0.000**	ug/L	0.000	267	79	88	17	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	4	302	297	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 10:31:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			445315	489477	2	Standard
	Be	**9**	**51.974**	ug/L	0.200	0	4	208501	2	Standard
	C	**13**		ug/L			28756	31281	4	Standard
	Cl	**37**		ug/L			1763477	1426071	2	Standard
>	**Sc**	**45**		ug/L			604634	555166	2	Standard
	V	**51**	**46.846**	ug/L	1.329	2	7658	1140440	1	Standard
	V-1	**51**	**47.057**	ug/L	1.181	2	354	1143584	1	Standard
	Cr	**52**	**47.252**	ug/L	1.518	3	22715	961805	3	Standard
	Cr	**53**	**47.964**	ug/L	0.619	1	231	109689	1	Standard
	Mn	**55**	**48.337**	ug/L	0.316	0	858	1400806	3	Standard
>	**Ge**	**72**		ug/L			47144	44992	1	KED
	Co	**59**	**51.149**	ug/L	0.806	1	3	287111	2	KED
	Ni	**60**	**51.664**	ug/L	0.783	1	583	83223	3	KED
	Ni	**62**	**50.261**	ug/L	0.864	1	99	13270	2	KED
	Cu	**63**	**51.867**	ug/L	0.524	1	88	234496	1	KED
	Cu	**65**	**53.430**	ug/L	1.156	2	51	118514	3	KED
	Zn	**66**	**50.516**	ug/L	0.775	1	128	30051	1	KED
	Zn	**67**	**51.724**	ug/L	2.294	4	17	4986	3	KED
	As	**75**	**50.573**	ug/L	0.379	0	4	16006	1	KED
	Se	**78**	**49.120**	ug/L	0.369	0	20	1464	2	KED
	Y	**89**		ug/L			352824	313498	3	Standard
	Kr	**83**		ug/L			41	40	26	Standard
>	**In-1**	**115**		ug/L			9999	8875	0	KED
	Mo	**98**	**55.903**	ug/L	1.808	3	5	73519	3	KED
	Cd	**111**	**54.541**	ug/L	1.403	2	5	14886	2	KED
	Cd	**114**	**54.875**	ug/L	1.630	2	9	38385	3	KED
>	**In**	**115**		ug/L			440562	421795	3	Standard
	Ag	**107**	**47.988**	ug/L	0.675	1	34	826207	1	Standard
	Sb	**121**	**51.508**	ug/L	0.277	0	252	728890	3	Standard
	Sb	**123**	**53.322**	ug/L	1.229	2	192	576111	1	Standard
	Ba	**135**	**60.496**	ug/L	1.970	3	54	271646	2	Standard
	Ba	**137**	**61.212**	ug/L	0.737	1	99	481056	2	Standard
>	**Tb**	**159**		ug/L			801432	911483	2	Standard
	Tl	**205**	**53.408**	ug/L	3.819	7	79	2074313	10	Standard
	Pb	**208**	**51.157**	ug/L	0.983	1	302	2637913	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 10:38:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			445315	500051	5	Standard
⌊	**Be**	**9**	**-0.000**	ug/L	0.001	144	4	3	91	Standard
	C	**13**		ug/L			28756	31372	1	Standard
	Cl	**37**		ug/L			1763477	1528790	2	Standard
⌈>	**Sc**	**45**		ug/L			604634	574522	4	Standard
⌈	**V**	**51**	**-0.029**	ug/L	0.005	17	7658	6555	4	Standard
⌊	**V-1**	**51**	**0.006**	ug/L	0.001	14	354	485	3	Standard
⌈	**Cr**	**52**	**-0.106**	ug/L	0.025	23	22715	19401	4	Standard
⌊	**Cr**	**53**	**0.013**	ug/L	0.007	53	231	251	4	Standard
⌊	**Mn**	**55**	**-0.000**	ug/L	0.001	264	858	805	1	Standard
⌈>	**Ge**	**72**		ug/L			47144	46122	0	KED
⌈	**Co**	**59**	**0.000**	ug/L	0.000	1558	3	3	34	KED
⌊	**Ni**	**60**	**-0.336**	ug/L	0.002	0	583	20	14	KED
⌈	**Ni**	**62**	**-0.318**	ug/L	0.012	3	99	11	28	KED
⌊	**Cu**	**63**	**0.007**	ug/L	0.003	39	88	116	9	KED
⌈	**Cu**	**65**	**0.005**	ug/L	0.005	108	51	60	19	KED
⌊	**Zn**	**66**	**0.098**	ug/L	0.039	39	128	185	13	KED
⌈	**Zn**	**67**	**0.088**	ug/L	0.032	36	17	25	11	KED
⌊	**As**	**75**	**0.001**	ug/L	0.004	327	4	4	27	KED
⌈	**Se**	**78**	**0.004**	ug/L	0.212	4861	20	20	32	KED
	Y	**89**		ug/L			352824	319781	5	Standard
	Kr	**83**		ug/L			41	47	30	Standard
⌈>	**In-1**	**115**		ug/L			9999	10085	0	KED
⌈	**Mo**	**98**	**0.011**	ug/L	0.002	13	5	22	10	KED
⌊	**Cd**	**111**	**0.004**	ug/L	0.006	162	5	6	28	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.003	81	9	6	32	KED
⌈>	**In**	**115**		ug/L			440562	432537	2	Standard
⌈	**Ag**	**107**	**0.001**	ug/L	0.001	121	34	45	28	Standard
⌈	**Sb**	**121**	**0.039**	ug/L	0.002	5	252	813	5	Standard
⌊	**Sb**	**123**	**0.039**	ug/L	0.002	5	192	615	2	Standard
⌈	**Ba**	**135**	**0.012**	ug/L	0.004	30	54	109	15	Standard
⌊	**Ba**	**137**	**0.012**	ug/L	0.002	19	99	194	7	Standard
⌈>	**Tb**	**159**		ug/L			801432	899860	4	Standard
⌈	**Tl**	**205**	**0.002**	ug/L	0.001	42	79	165	17	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	28	302	385	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0381-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 10:43:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			445315	505103	6	Standard
[	**Be**	**9**	**-0.000**	ug/L	0.001	234	4	3	86	Standard
	C	**13**		ug/L			28756	44182	4	Standard
	Cl	**37**		ug/L			1763477	1545076	1	Standard
[>	**Sc**	**45**		ug/L			604634	585511	6	Standard
[	**V**	**51**	**-0.020**	ug/L	0.004	22	7658	6913	6	Standard
[	**V-1**	**51**	**0.010**	ug/L	0.001	7	354	589	3	Standard
[	**Cr**	**52**	**-0.041**	ug/L	0.008	18	22715	21126	6	Standard
[	**Cr**	**53**	**0.059**	ug/L	0.014	23	231	364	8	Standard
[	**Mn**	**55**	**0.021**	ug/L	0.002	7	858	1460	7	Standard
[>	**Ge**	**72**		ug/L			47144	45252	3	KED
[	**Co**	**59**	**0.001**	ug/L	0.001	62	3	10	47	KED
[	**Ni**	**60**	**-0.339**	ug/L	0.001	0	583	15	12	KED
[	**Ni**	**62**	**-0.341**	ug/L	0.016	4	99	5	78	KED
[	**Cu**	**63**	**0.002**	ug/L	0.004	181	88	95	17	KED
[	**Cu**	**65**	**0.002**	ug/L	0.006	370	51	53	28	KED
[	**Zn**	**66**	**-0.007**	ug/L	0.004	50	128	118	4	KED
[	**Zn**	**67**	**0.042**	ug/L	0.070	167	17	20	30	KED
[	**As**	**75**	**0.003**	ug/L	0.006	216	4	5	32	KED
[	**Se**	**78**	**-0.038**	ug/L	0.129	343	20	18	23	KED
	Y	**89**		ug/L			352824	325014	6	Standard
	Kr	**83**		ug/L			41	30	47	Standard
[>	**In-1**	**115**		ug/L			9999	9561	2	KED
[	**Mo**	**98**	**0.011**	ug/L	0.003	25	5	21	17	KED
[	**Cd**	**111**	**-0.006**	ug/L	0.006	104	5	3	43	KED
[	**Cd**	**114**	**-0.005**	ug/L	0.001	28	9	4	23	KED
[>	**In**	**115**		ug/L			440562	436685	7	Standard
[	**Ag**	**107**	**-0.001**	ug/L	0.000	44	34	19	39	Standard
[	**Sb**	**121**	**0.004**	ug/L	0.002	34	252	316	14	Standard
[	**Sb**	**123**	**0.005**	ug/L	0.003	57	192	247	12	Standard
[	**Ba**	**135**	**0.019**	ug/L	0.006	29	54	140	19	Standard
[	**Ba**	**137**	**0.023**	ug/L	0.003	10	99	286	6	Standard
[>	**Tb**	**159**		ug/L			801432	888686	8	Standard
[	**Tl**	**205**	**-0.000**	ug/L	0.000	441	79	86	11	Standard
[	**Pb**	**208**	**-0.002**	ug/L	0.001	24	302	227	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0381-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 10:48:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			445315	515585	2	Standard
	Be	**9**	**25.816**	ug/L	0.504	1	4	109061	1	Standard
	C	**13**		ug/L			28756	47018	1	Standard
	Cl	**37**		ug/L			1763477	1565787	2	Standard
>	**Sc**	**45**		ug/L			604634	604290	1	Standard
	V	**51**	**24.646**	ug/L	0.233	0	7658	657033	2	Standard
	V-1	**51**	**24.684**	ug/L	0.112	0	354	653412	1	Standard
	Cr	**52**	**24.691**	ug/L	0.378	1	22715	557963	1	Standard
	Cr	**53**	**24.816**	ug/L	0.373	1	231	61891	0	Standard
	Mn	**55**	**24.877**	ug/L	0.434	1	858	785005	0	Standard
>	**Ge**	**72**		ug/L			47144	45628	2	KED
	Co	**59**	**26.428**	ug/L	0.686	2	3	150386	1	KED
	Ni	**60**	**27.208**	ug/L	0.989	3	583	44688	2	KED
	Ni	**62**	**26.577**	ug/L	1.344	5	99	7156	2	KED
	Cu	**63**	**27.199**	ug/L	0.856	3	88	124740	3	KED
	Cu	**65**	**28.804**	ug/L	1.047	3	51	64787	2	KED
	Zn	**66**	**86.187**	ug/L	2.989	3	128	51891	1	KED
	Zn	**67**	**82.084**	ug/L	2.435	2	17	8018	3	KED
	As	**75**	**26.291**	ug/L	0.739	2	4	8440	2	KED
	Se	**78**	**80.212**	ug/L	3.517	4	20	2410	3	KED
	Y	**89**		ug/L			352824	329446	0	Standard
	Kr	**83**		ug/L			41	45	24	Standard
>	**In-1**	**115**		ug/L			9999	10081	0	KED
	Mo	**98**	**0.072**	ug/L	0.014	19	5	113	18	KED
	Cd	**111**	**27.630**	ug/L	0.387	1	5	8569	1	KED
	Cd	**114**	**27.535**	ug/L	0.201	0	9	21880	0	KED
>	**In**	**115**		ug/L			440562	450676	2	Standard
	Ag	**107**	**24.911**	ug/L	0.466	1	34	458274	0	Standard
	Sb	**121**	**0.066**	ug/L	0.002	3	252	1251	0	Standard
	Sb	**123**	**0.068**	ug/L	0.003	3	192	976	3	Standard
	Ba	**135**	**30.382**	ug/L	0.371	1	54	145853	2	Standard
	Ba	**137**	**30.863**	ug/L	0.800	2	99	259166	0	Standard
>	**Tb**	**159**		ug/L			801432	920441	1	Standard
	Tl	**205**	**26.685**	ug/L	0.453	1	79	1045280	2	Standard
	Pb	**208**	**26.789**	ug/L	0.540	2	302	1395326	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0382-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 10:54:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			445315	466547	2	Standard
⌊	**Be**	**9**	**0.001**	ug/L	0.000	51	4	6	15	Standard
	C	**13**		ug/L			28756	45692	2	Standard
	Cl	**37**		ug/L			1763477	1540759	1	Standard
⌈>	**Sc**	**45**		ug/L			604634	552265	2	Standard
⌊	**V**	**51**	**-0.002**	ug/L	0.002	108	7658	6943	1	Standard
⌈	**V-1**	**51**	**0.016**	ug/L	0.001	5	354	715	2	Standard
⌊	**Cr**	**52**	**0.067**	ug/L	0.012	18	22715	22067	1	Standard
⌈	**Cr**	**53**	**0.128**	ug/L	0.006	4	231	501	0	Standard
⌊	**Mn**	**55**	**0.017**	ug/L	0.001	4	858	1272	1	Standard
⌈>	**Ge**	**72**		ug/L			47144	46776	1	KED
⌈	**Co**	**59**	**0.001**	ug/L	0.001	49	3	9	34	KED
⌊	**Ni**	**60**	**-0.333**	ug/L	0.003	0	583	24	20	KED
⌈	**Ni**	**62**	**-0.342**	ug/L	0.016	4	99	5	86	KED
⌈	**Cu**	**63**	**0.007**	ug/L	0.001	20	88	120	5	KED
⌊	**Cu**	**65**	**0.009**	ug/L	0.011	116	51	72	32	KED
⌈	**Zn**	**66**	**0.161**	ug/L	0.027	16	128	226	8	KED
⌊	**Zn**	**67**	**0.160**	ug/L	0.038	24	17	33	13	KED
⌈	**As**	**75**	**0.004**	ug/L	0.005	114	4	5	24	KED
⌊	**Se**	**78**	**0.034**	ug/L	0.092	274	20	21	12	KED
	Y	**89**		ug/L			352824	313623	1	Standard
	Kr	**83**		ug/L			41	45	25	Standard
⌈>	**In-1**	**115**		ug/L			9999	9523	1	KED
⌈	**Mo**	**98**	**0.014**	ug/L	0.001	6	5	25	3	KED
⌊	**Cd**	**111**	**0.005**	ug/L	0.005	88	5	6	20	KED
⌊	**Cd**	**114**	**-0.009**	ug/L	0.004	42	9	2	123	KED
⌈>	**In**	**115**		ug/L			440562	418336	1	Standard
⌈	**Ag**	**107**	**0.001**	ug/L	0.000	37	34	47	10	Standard
⌈	**Sb**	**121**	**-0.007**	ug/L	0.001	17	252	135	14	Standard
⌊	**Sb**	**123**	**-0.007**	ug/L	0.001	13	192	112	9	Standard
⌈	**Ba**	**135**	**0.007**	ug/L	0.002	32	54	85	13	Standard
⌊	**Ba**	**137**	**0.007**	ug/L	0.001	14	99	150	5	Standard
⌈>	**Tb**	**159**		ug/L			801432	849566	0	Standard
⌈	**Tl**	**205**	**0.000**	ug/L	0.000	26	79	86	1	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.001	33	302	245	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0382-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 10:59:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			445315	524605	3	Standard
	Be	**9**	**25.606**	ug/L	0.636	2	4	110021	1	Standard
	C	**13**		ug/L			28756	50200	1	Standard
	Cl	**37**		ug/L			1763477	1594582	1	Standard
>	**Sc**	**45**		ug/L			604634	619985	2	Standard
	V	**51**	**24.400**	ug/L	0.431	1	7658	667259	1	Standard
	V-1	**51**	**24.409**	ug/L	0.406	1	354	662793	1	Standard
	Cr	**52**	**24.592**	ug/L	0.280	1	22715	570222	1	Standard
	Cr	**53**	**24.622**	ug/L	0.196	0	231	63006	1	Standard
	Mn	**55**	**24.846**	ug/L	0.445	1	858	804379	1	Standard
>	**Ge**	**72**		ug/L			47144	44949	1	KED
	Co	**59**	**27.221**	ug/L	0.707	2	3	152674	3	KED
	Ni	**60**	**27.394**	ug/L	0.350	1	583	44343	2	KED
	Ni	**62**	**27.300**	ug/L	1.132	4	99	7246	5	KED
	Cu	**63**	**28.378**	ug/L	0.852	3	88	128248	4	KED
	Cu	**65**	**29.111**	ug/L	0.616	2	51	64534	3	KED
	Zn	**66**	**85.847**	ug/L	1.386	1	128	50946	2	KED
	Zn	**67**	**82.786**	ug/L	1.113	1	17	7967	2	KED
	As	**75**	**26.273**	ug/L	0.701	2	4	8311	3	KED
	Se	**78**	**79.641**	ug/L	1.669	2	20	2359	3	KED
	Y	**89**		ug/L			352824	341767	1	Standard
	Kr	**83**		ug/L			41	44	13	Standard
>	**In-1**	**115**		ug/L			9999	9532	5	KED
	Mo	**98**	**0.078**	ug/L	0.010	12	5	114	7	KED
	Cd	**111**	**26.791**	ug/L	1.211	4	5	7844	1	KED
	Cd	**114**	**27.064**	ug/L	0.941	3	9	20312	1	KED
>	**In**	**115**		ug/L			440562	463505	1	Standard
	Ag	**107**	**24.617**	ug/L	0.577	2	34	465804	1	Standard
	Sb	**121**	**0.062**	ug/L	0.005	7	252	1223	4	Standard
	Sb	**123**	**0.062**	ug/L	0.001	2	192	942	3	Standard
	Ba	**135**	**28.856**	ug/L	0.801	2	54	142500	4	Standard
	Ba	**137**	**30.505**	ug/L	0.525	1	99	263509	0	Standard
>	**Tb**	**159**		ug/L			801432	924020	1	Standard
	Tl	**205**	**26.603**	ug/L	0.110	0	79	1046074	1	Standard
	Pb	**208**	**26.826**	ug/L	0.107	0	302	1402953	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0751-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, April 26, 2023 11:04:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			445315	483305	1	Standard
[	**Be**	**9**	**0.001**	ug/L	0.001	104	4	9	52	Standard
	C	**13**		ug/L			28756	44878	2	Standard
	Cl	**37**		ug/L			1763477	1565654	2	Standard
[>	**Sc**	**45**		ug/L			604634	621270	1	Standard
[	**V**	**51**	**0.728**	ug/L	0.185	25	7658	27621	19	Standard
[	**V-1**	**51**	**1.133**	ug/L	0.005	0	354	31171	1	Standard
[	**Cr**	**52**	**18.589**	ug/L	0.429	2	22715	437744	3	Standard
[	**Cr**	**53**	**19.714**	ug/L	0.200	1	231	50600	1	Standard
[	**Mn**	**55**	**0.104**	ug/L	0.004	3	858	4261	4	Standard
[>	**Ge**	**72**		ug/L			47144	44136	0	KED
[	**Co**	**59**	**0.073**	ug/L	0.012	15	3	404	15	KED
[	**Ni**	**60**	**19.449**	ug/L	0.382	1	583	31071	2	KED
[	**Ni**	**62**	**19.013**	ug/L	0.815	4	99	4982	4	KED
[	**Cu**	**63**	**0.810**	ug/L	0.031	3	88	3671	3	KED
[	**Cu**	**65**	**0.820**	ug/L	0.039	4	51	1832	5	KED
[	**Zn**	**66**	**6.018**	ug/L	0.227	3	128	3618	3	KED
[	**Zn**	**67**	**5.975**	ug/L	0.438	7	17	579	7	KED
[	**As**	**75**	**0.683**	ug/L	0.052	7	4	216	7	KED
[	**Se**	**78**	**0.622**	ug/L	0.115	18	20	37	8	KED
	Y	**89**		ug/L			352824	316822	0	Standard
	Kr	**83**		ug/L			41	38	39	Standard
[>	**In-1**	**115**		ug/L			9999	9709	2	KED
[	**Mo**	**98**	**0.201**	ug/L	0.016	7	5	294	6	KED
[	**Cd**	**111**	**9.052**	ug/L	0.363	4	5	2705	1	KED
[	**Cd**	**114**	**8.947**	ug/L	0.275	3	9	6853	4	KED
[>	**In**	**115**		ug/L			440562	422493	4	Standard
[	**Ag**	**107**	**0.002**	ug/L	0.001	26	34	67	14	Standard
[	**Sb**	**121**	**0.056**	ug/L	0.001	2	252	1035	5	Standard
[	**Sb**	**123**	**0.062**	ug/L	0.006	9	192	853	3	Standard
[	**Ba**	**135**	**8.323**	ug/L	0.333	3	54	37460	2	Standard
[	**Ba**	**137**	**8.672**	ug/L	0.239	2	99	68310	1	Standard
[>	**Tb**	**159**		ug/L			801432	881938	0	Standard
[	**Tl**	**205**	**0.003**	ug/L	0.001	19	79	193	10	Standard
[	**Pb**	**208**	**0.016**	ug/L	0.003	17	302	1141	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0751-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, April 26, 2023 11:09:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			445315	500834	5	Standard
[	**Be**	**9**	**0.001**	ug/L	0.001	116	4	9	52	Standard
	C	**13**		ug/L			28756	45535	2	Standard
	Cl	**37**		ug/L			1763477	1584286	1	Standard
[>	**Sc**	**45**		ug/L			604634	654182	3	Standard
[	**V**	**51**	**0.742**	ug/L	0.144	19	7658	29351	10	Standard
[	**V-1**	**51**	**1.145**	ug/L	0.005	0	354	33181	4	Standard
[	**Cr**	**52**	**16.375**	ug/L	0.326	1	22715	408747	2	Standard
[	**Cr**	**53**	**17.526**	ug/L	0.291	1	231	47413	5	Standard
[	**Mn**	**55**	**0.102**	ug/L	0.002	1	858	4400	4	Standard
[>	**Ge**	**72**		ug/L			47144	44413	1	KED
[	**Co**	**59**	**0.063**	ug/L	0.007	11	3	354	12	KED
[	**Ni**	**60**	**11.943**	ug/L	0.398	3	583	19415	4	KED
[	**Ni**	**62**	**11.485**	ug/L	0.493	4	99	3065	4	KED
[	**Cu**	**63**	**0.766**	ug/L	0.005	0	88	3498	1	KED
[	**Cu**	**65**	**0.765**	ug/L	0.024	3	51	1723	4	KED
[	**Zn**	**66**	**5.071**	ug/L	0.226	4	128	3087	4	KED
[	**Zn**	**67**	**5.484**	ug/L	0.425	7	17	536	7	KED
[	**As**	**75**	**0.665**	ug/L	0.021	3	4	212	1	KED
[	**Se**	**78**	**0.420**	ug/L	0.158	37	20	31	12	KED
	Y	**89**		ug/L			352824	327462	4	Standard
	Kr	**83**		ug/L			41	48	9	Standard
[>	**In-1**	**115**		ug/L			9999	9533	0	KED
[	**Mo**	**98**	**0.191**	ug/L	0.012	6	5	274	6	KED
[	**Cd**	**111**	**5.813**	ug/L	0.148	2	5	1709	2	KED
[	**Cd**	**114**	**5.772**	ug/L	0.123	2	9	4344	2	KED
[>	**In**	**115**		ug/L			440562	437499	5	Standard
[	**Ag**	**107**	**-0.000**	ug/L	0.000	31	34	30	6	Standard
[	**Sb**	**121**	**0.052**	ug/L	0.006	11	252	1010	3	Standard
[	**Sb**	**123**	**0.052**	ug/L	0.001	2	192	774	3	Standard
[	**Ba**	**135**	**8.164**	ug/L	0.168	2	54	38111	7	Standard
[	**Ba**	**137**	**8.486**	ug/L	0.074	0	99	69272	5	Standard
[>	**Tb**	**159**		ug/L			801432	897948	3	Standard
[	**Tl**	**205**	**0.001**	ug/L	0.000	33	79	139	15	Standard
[	**Pb**	**208**	**0.017**	ug/L	0.001	3	302	1195	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0382-DUP1
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, April 26, 2023 11:14:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
[>	**Li**	**6**		ug/L			445315	480129	4	Standard
[	**Be**	**9**	**0.003**	ug/L	0.000	15	4	15	12	Standard
	C	**13**		ug/L			28756	43531	0	Standard
	Cl	**37**		ug/L			1763477	1584300	1	Standard
[>	**Sc**	**45**		ug/L			604634	635500	4	Standard
[	**V**	**51**	**0.791**	ug/L	0.029	3	7658	29986	6	Standard
[	**V-1**	**51**	**1.175**	ug/L	0.009	0	354	33062	4	Standard
[	**Cr**	**52**	**16.358**	ug/L	0.351	2	22715	396885	5	Standard
[	**Cr**	**53**	**17.444**	ug/L	0.327	1	231	45831	4	Standard
[	**Mn**	**55**	**0.117**	ug/L	0.001	0	858	4792	3	Standard
[>	**Ge**	**72**		ug/L			47144	44992	3	KED
[	**Co**	**59**	**0.061**	ug/L	0.003	4	3	347	1	KED
[	**Ni**	**60**	**12.141**	ug/L	0.093	0	583	19977	2	KED
[	**Ni**	**62**	**12.069**	ug/L	0.295	2	99	3256	1	KED
[	**Cu**	**63**	**0.771**	ug/L	0.007	0	88	3568	3	KED
[	**Cu**	**65**	**0.777**	ug/L	0.047	6	51	1770	3	KED
[	**Zn**	**66**	**5.007**	ug/L	0.071	1	128	3088	1	KED
[	**Zn**	**67**	**5.297**	ug/L	0.119	2	17	525	4	KED
[	**As**	**75**	**0.718**	ug/L	0.036	5	4	231	8	KED
[	**Se**	**78**	**0.470**	ug/L	0.111	23	20	33	6	KED
	Y	**89**		ug/L			352824	321483	4	Standard
	Kr	**83**		ug/L			41	35	34	Standard
[>	**In-1**	**115**		ug/L			9999	9505	3	KED
[	**Mo**	**98**	**0.193**	ug/L	0.007	3	5	276	1	KED
[	**Cd**	**111**	**5.931**	ug/L	0.124	2	5	1738	2	KED
[	**Cd**	**114**	**5.834**	ug/L	0.229	3	9	4374	1	KED
[>	**In**	**115**		ug/L			440562	427513	5	Standard
[	**Ag**	**107**	**-0.000**	ug/L	0.000	557	34	33	20	Standard
[	**Sb**	**121**	**0.054**	ug/L	0.006	10	252	1019	8	Standard
[	**Sb**	**123**	**0.056**	ug/L	0.004	8	192	792	1	Standard
[	**Ba**	**135**	**8.378**	ug/L	0.293	3	54	38148	3	Standard
[	**Ba**	**137**	**8.583**	ug/L	0.183	2	99	68426	4	Standard
[>	**Tb**	**159**		ug/L			801432	880169	5	Standard
[	**Tl**	**205**	**0.002**	ug/L	0.000	14	79	160	4	Standard
[	**Pb**	**208**	**0.025**	ug/L	0.001	3	302	1560	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0382-MS1
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, April 26, 2023 11:21:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			445315	485494	4	Standard
⌊	**Be**	**9**	**13.246**	ug/L	0.110	0	4	52704	4	Standard
	C	**13**		ug/L			28756	42435	1	Standard
	Cl	**37**		ug/L			1763477	1610255	2	Standard
⌈>	**Sc**	**45**		ug/L			604634	641782	5	Standard
⌈	**V**	**51**	**11.747**	ug/L	0.500	4	7658	336425	3	Standard
⌈	**V-1**	**51**	**12.396**	ug/L	0.491	3	354	348285	3	Standard
⌈	**Cr**	**52**	**27.198**	ug/L	0.862	3	22715	649699	3	Standard
⌈	**Cr**	**53**	**29.189**	ug/L	0.839	2	231	77208	3	Standard
⌊	**Mn**	**55**	**11.225**	ug/L	0.344	3	858	376330	2	Standard
⌈>	**Ge**	**72**		ug/L			47144	46825	0	KED
⌈	**Co**	**59**	**13.011**	ug/L	0.182	1	3	76002	1	KED
⌈	**Ni**	**60**	**25.088**	ug/L	0.275	1	583	42351	1	KED
⌈	**Ni**	**62**	**24.696**	ug/L	0.416	1	99	6835	1	KED
⌈	**Cu**	**63**	**14.027**	ug/L	0.174	1	88	66067	1	KED
⌈	**Cu**	**65**	**14.372**	ug/L	0.505	3	51	33206	3	KED
⌈	**Zn**	**66**	**46.274**	ug/L	0.396	0	128	28663	1	KED
⌈	**Zn**	**67**	**44.162**	ug/L	0.603	1	17	4435	1	KED
⌈	**As**	**75**	**13.609**	ug/L	0.144	1	4	4486	0	KED
⌊	**Se**	**78**	**39.794**	ug/L	0.190	0	20	1238	0	KED
	Y	**89**		ug/L			352824	327482	2	Standard
	Kr	**83**		ug/L			41	50	24	Standard
⌈>	**In-1**	**115**		ug/L			9999	9693	1	KED
⌈	**Mo**	**98**	**0.231**	ug/L	0.007	3	5	337	2	KED
⌈	**Cd**	**111**	**18.940**	ug/L	0.174	0	5	5649	1	KED
⌊	**Cd**	**114**	**19.209**	ug/L	0.577	3	9	14679	3	KED
⌈>	**In**	**115**		ug/L			440562	436957	3	Standard
⌈	**Ag**	**107**	**12.048**	ug/L	0.161	1	34	214922	1	Standard
⌈	**Sb**	**121**	**0.089**	ug/L	0.002	2	252	1560	5	Standard
⌈	**Sb**	**123**	**0.090**	ug/L	0.007	7	192	1193	5	Standard
⌈	**Ba**	**135**	**22.460**	ug/L	0.991	4	54	104525	4	Standard
⌊	**Ba**	**137**	**23.792**	ug/L	0.866	3	99	193659	1	Standard
⌈>	**Tb**	**159**		ug/L			801432	895497	2	Standard
⌈	**Tl**	**205**	**13.160**	ug/L	0.303	2	79	501649	3	Standard
⌊	**Pb**	**208**	**13.051**	ug/L	0.114	0	302	661601	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLK
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 11:26:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			445315	518956	2	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.000	60	4	6	15	Standard
	C	**13**		ug/L			28756	31973	2	Standard
	Cl	**37**		ug/L			1763477	1633508	2	Standard
⌈>	**Sc**	**45**		ug/L			604634	592982	1	Standard
⌈	**V**	**51**	**-0.013**	ug/L	0.000	3	7658	7169	1	Standard
⌊	**V-1**	**51**	**0.018**	ug/L	0.002	9	354	803	5	Standard
⌈	**Cr**	**52**	**-0.056**	ug/L	0.011	20	22715	21088	2	Standard
⌊	**Cr**	**53**	**0.049**	ug/L	0.009	17	231	346	7	Standard
⌊	**Mn**	**55**	**-0.004**	ug/L	0.001	17	858	725	3	Standard
⌈>	**Ge**	**72**		ug/L			47144	45606	4	KED
⌈	**Co**	**59**	**0.000**	ug/L	0.001	5437	3	3	124	KED
⌊	**Ni**	**60**	**-0.341**	ug/L	0.003	0	583	10	44	KED
⌈	**Ni**	**62**	**-0.351**	ug/L	0.004	1	99	2	43	KED
⌊	**Cu**	**63**	**-0.002**	ug/L	0.003	167	88	77	14	KED
⌈	**Cu**	**65**	**-0.006**	ug/L	0.005	90	51	36	25	KED
⌊	**Zn**	**66**	**-0.128**	ug/L	0.012	9	128	47	18	KED
⌈	**Zn**	**67**	**-0.061**	ug/L	0.059	96	17	10	56	KED
⌊	**As**	**75**	**0.006**	ug/L	0.006	109	4	6	27	KED
⌊	**Se**	**78**	**-0.049**	ug/L	0.073	147	20	18	8	KED
	Y	**89**		ug/L			352824	323160	2	Standard
	Kr	**83**		ug/L			41	34	20	Standard
⌈>	**In-1**	**115**		ug/L			9999	9574	0	KED
⌈	**Mo**	**98**	**-0.000**	ug/L	0.000	53	5	5	4	KED
⌊	**Cd**	**111**	**-0.003**	ug/L	0.010	303	5	4	68	KED
⌊	**Cd**	**114**	**-0.006**	ug/L	0.003	49	9	4	50	KED
⌈>	**In**	**115**		ug/L			440562	436374	2	Standard
⌈	**Ag**	**107**	**-0.001**	ug/L	0.000	40	34	19	29	Standard
⌈	**Sb**	**121**	**-0.014**	ug/L	0.001	8	252	50	32	Standard
⌊	**Sb**	**123**	**-0.013**	ug/L	0.001	4	192	40	17	Standard
⌈	**Ba**	**135**	**-0.002**	ug/L	0.000	29	54	46	4	Standard
⌊	**Ba**	**137**	**-0.003**	ug/L	0.001	27	99	73	7	Standard
⌈>	**Tb**	**159**		ug/L			801432	871514	1	Standard
⌈	**Tl**	**205**	**-0.001**	ug/L	0.000	53	79	64	20	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	45	302	282	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVJ
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 11:31:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			445315	481847	1	Standard
	Be	**9**	**51.910**	ug/L	1.128	2	4	204952	1	Standard
	C	**13**		ug/L			28756	31453	1	Standard
	Cl	**37**		ug/L			1763477	1572894	2	Standard
>	**Sc**	**45**		ug/L			604634	598431	3	Standard
	V	**51**	**47.750**	ug/L	0.165	0	7658	1253501	3	Standard
	V-1	**51**	**48.197**	ug/L	0.122	0	354	1263164	3	Standard
	Cr	**52**	**47.292**	ug/L	1.183	2	22715	1037452	2	Standard
	Cr	**53**	**48.819**	ug/L	1.345	2	231	120322	2	Standard
	Mn	**55**	**48.804**	ug/L	0.246	0	858	1524415	2	Standard
>	**Ge**	**72**		ug/L			47144	44480	2	KED
	Co	**59**	**51.169**	ug/L	1.883	3	3	283886	4	KED
	Ni	**60**	**51.679**	ug/L	1.338	2	583	82277	3	KED
	Ni	**62**	**52.304**	ug/L	2.473	4	99	13644	4	KED
	Cu	**63**	**52.028**	ug/L	1.582	3	88	232574	4	KED
	Cu	**65**	**52.812**	ug/L	1.456	2	51	115780	3	KED
	Zn	**66**	**51.664**	ug/L	1.657	3	128	30379	3	KED
	Zn	**67**	**52.261**	ug/L	1.960	3	17	4982	4	KED
	As	**75**	**51.042**	ug/L	1.315	2	4	15970	3	KED
	Se	**78**	**49.288**	ug/L	0.345	0	20	1452	3	KED
	Y	**89**		ug/L			352824	323493	2	Standard
	Kr	**83**		ug/L			41	56	20	Standard
>	**In-1**	**115**		ug/L			9999	9252	2	KED
	Mo	**98**	**55.940**	ug/L	1.404	2	5	76683	2	KED
	Cd	**111**	**54.777**	ug/L	1.130	2	5	15584	2	KED
	Cd	**114**	**54.421**	ug/L	1.377	2	9	39670	2	KED
>	**In**	**115**		ug/L			440562	428912	2	Standard
	Ag	**107**	**48.594**	ug/L	0.197	0	34	850963	2	Standard
	Sb	**121**	**51.243**	ug/L	0.383	0	252	737318	2	Standard
	Sb	**123**	**52.504**	ug/L	1.718	3	192	576822	1	Standard
	Ba	**135**	**56.756**	ug/L	0.574	1	54	259289	3	Standard
	Ba	**137**	**58.765**	ug/L	0.951	1	99	469834	3	Standard
>	**Tb**	**159**		ug/L			801432	878853	2	Standard
	Tl	**205**	**51.312**	ug/L	1.238	2	79	1918459	0	Standard
	Pb	**208**	**51.918**	ug/L	1.293	2	302	2581520	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBJ
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 11:38:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			445315	483371	1	Standard
	Be	**9**	**0.001**	ug/L	0.001	119	4	7	43	Standard
	C	**13**		ug/L			28756	30309	0	Standard
	Cl	**37**		ug/L			1763477	1647930	1	Standard
>	**Sc**	**45**		ug/L			604634	593185	2	Standard
	V	**51**	**-0.027**	ug/L	0.002	5	7658	6827	2	Standard
	V-1	**51**	**0.008**	ug/L	0.001	10	354	560	5	Standard
	Cr	**52**	**-0.092**	ug/L	0.004	4	22715	20319	2	Standard
	Cr	**53**	**0.027**	ug/L	0.003	10	231	291	0	Standard
	Mn	**55**	**0.000**	ug/L	0.001	333	858	852	2	Standard
>	**Ge**	**72**		ug/L			47144	45788	3	KED
	Co	**59**	**0.000**	ug/L	0.001	123	3	5	57	KED
	Ni	**60**	**-0.336**	ug/L	0.004	1	583	20	32	KED
	Ni	**62**	**-0.339**	ug/L	0.014	4	99	5	66	KED
	Cu	**63**	**0.007**	ug/L	0.002	32	88	116	6	KED
	Cu	**65**	**0.004**	ug/L	0.004	102	51	57	10	KED
	Zn	**66**	**0.074**	ug/L	0.016	22	128	168	2	KED
	Zn	**67**	**0.064**	ug/L	0.028	43	17	22	8	KED
	As	**75**	**-0.003**	ug/L	0.004	149	4	3	37	KED
	Se	**78**	**-0.006**	ug/L	0.179	2846	20	19	27	KED
	Y	**89**		ug/L			352824	329834	0	Standard
	Kr	**83**		ug/L			41	38	5	Standard
>	**In-1**	**115**		ug/L			9999	10097	4	KED
	Mo	**98**	**0.008**	ug/L	0.005	68	5	17	43	KED
	Cd	**111**	**-0.003**	ug/L	0.004	113	5	4	20	KED
	Cd	**114**	**-0.000**	ug/L	0.001	427	9	9	1	KED
>	**In**	**115**		ug/L			440562	428534	1	Standard
	Ag	**107**	**0.000**	ug/L	0.000	144	34	39	19	Standard
	Sb	**121**	**0.041**	ug/L	0.002	4	252	829	3	Standard
	Sb	**123**	**0.044**	ug/L	0.005	11	192	671	6	Standard
	Ba	**135**	**0.012**	ug/L	0.003	27	54	109	15	Standard
	Ba	**137**	**0.012**	ug/L	0.002	15	99	194	8	Standard
>	**Tb**	**159**		ug/L			801432	857047	2	Standard
	Tl	**205**	**0.002**	ug/L	0.001	35	79	140	14	Standard
	Pb	**208**	**0.002**	ug/L	0.001	43	302	400	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 11:44:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			445315	554463	3	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.000	82	4	7	25	Standard
	C	**13**		ug/L			28756	44086	0	Standard
	Cl	**37**		ug/L			1763477	1579273	1	Standard
⌈>	**Sc**	**45**		ug/L			604634	654441	3	Standard
⌈	**V**	**51**	**-0.017**	ug/L	0.002	9	7658	7807	3	Standard
⌊	**V-1**	**51**	**0.006**	ug/L	0.002	27	354	567	5	Standard
⌈	**Cr**	**52**	**-0.054**	ug/L	0.006	11	22715	23309	3	Standard
⌊	**Cr**	**53**	**0.026**	ug/L	0.013	52	231	318	10	Standard
⌊	**Mn**	**55**	**0.042**	ug/L	0.002	4	858	2355	3	Standard
⌈>	**Ge**	**72**		ug/L			47144	49749	3	KED
⌈	**Co**	**59**	**0.001**	ug/L	0.001	96	3	10	65	KED
⌊	**Ni**	**60**	**-0.299**	ug/L	0.003	0	583	86	2	KED
⌈	**Ni**	**62**	**-0.295**	ug/L	0.016	5	99	19	26	KED
⌈	**Cu**	**63**	**0.008**	ug/L	0.002	23	88	130	9	KED
⌊	**Cu**	**65**	**0.005**	ug/L	0.005	95	51	66	20	KED
⌈	**Zn**	**66**	**0.045**	ug/L	0.019	41	128	165	9	KED
⌊	**Zn**	**67**	**0.184**	ug/L	0.097	52	17	37	24	KED
⌈	**As**	**75**	**-0.003**	ug/L	0.003	116	4	3	33	KED
⌊	**Se**	**78**	**-0.188**	ug/L	0.119	62	20	15	23	KED
	Y	**89**		ug/L			352824	361966	2	Standard
	Kr	**83**		ug/L			41	31	24	Standard
⌈>	**In-1**	**115**		ug/L			9999	10073	1	KED
⌈	**Mo**	**98**	**0.005**	ug/L	0.002	47	5	12	27	KED
⌈	**Cd**	**111**	**-0.005**	ug/L	0.009	172	5	4	70	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.006	140	9	5	80	KED
⌈>	**In**	**115**		ug/L			440562	476282	3	Standard
⌈	**Ag**	**107**	**-0.001**	ug/L	0.001	95	34	26	47	Standard
⌈	**Sb**	**121**	**0.013**	ug/L	0.003	22	252	486	7	Standard
⌊	**Sb**	**123**	**0.011**	ug/L	0.001	5	192	346	4	Standard
⌈	**Ba**	**135**	**0.023**	ug/L	0.004	16	54	175	14	Standard
⌊	**Ba**	**137**	**0.024**	ug/L	0.001	4	99	321	5	Standard
⌈>	**Tb**	**159**		ug/L			801432	941469	2	Standard
⌈	**Tl**	**205**	**-0.000**	ug/L	0.001	1296	79	91	31	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.000	4	302	718	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 11:49:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			445315	1060	1	Standard
⌊	**Be**	**9**	**0.434**	ug/L	0.372	85	4	3	86	Standard
	C	**13**		ug/L			28756	43131	3	Standard
	Cl	**37**		ug/L			1763477	1582244	1	Standard
⌈>	**Sc**	**45**		ug/L			604634	1590	4	Standard
⌈	**V**	**51**	**116.020**	ug/L	3.226	2	7658	8061	1	Standard
⌊	**V-1**	**51**	**7.688**	ug/L	0.277	3	354	535	1	Standard
⌈	**Cr**	**52**	**421.471**	ug/L	12.710	3	22715	24096	1	Standard
⌊	**Cr**	**53**	**48.304**	ug/L	2.382	4	231	316	1	Standard
	Mn	**55**	**31.539**	ug/L	1.275	4	858	2617	2	Standard
⌈>	**Ge**	**72**		ug/L			47144	23554	106	KED
⌈	**Co**	**59**	**0.038**	ug/L	0.062	164	3	8	66	KED
⌊	**Ni**	**60**	**0.982**	ug/L	2.122	215	583	106	5	KED
⌈	**Ni**	**62**	**1.160**	ug/L	2.408	207	99	20	14	KED
⌈	**Cu**	**63**	**1.576**	ug/L	2.645	167	88	240	58	KED
⌊	**Cu**	**65**	**1.539**	ug/L	2.572	167	51	127	41	KED
⌈	**Zn**	**66**	**8.048**	ug/L	13.524	168	128	199	27	KED
⌊	**Zn**	**67**	**7.931**	ug/L	13.297	167	17	31	30	KED
⌈	**As**	**75**	**0.164**	ug/L	0.267	162	4	4	26	KED
⌊	**Se**	**78**	**13.917**	ug/L	23.349	167	20	20	17	KED
	Y	**89**		ug/L			352824	234	9	Standard
	Kr	**83**		ug/L			41	46	26	Standard
⌈>	**In-1**	**115**		ug/L			9999	35	8	KED
⌈	**Mo**	**98**	**2.246**	ug/L	1.143	50	5	11	52	KED
⌈	**Cd**	**111**	**6.034**	ug/L	2.394	39	5	6	42	KED
⌊	**Cd**	**114**	**2.114**	ug/L	1.653	78	9	6	78	KED
⌈>	**In**	**115**		ug/L			440562	280	4	Standard
⌈	**Ag**	**107**	**2.676**	ug/L	0.461	17	34	30	12	Standard
⌈	**Sb**	**121**	**27.799**	ug/L	3.864	13	252	260	9	Standard
⌊	**Sb**	**123**	**28.272**	ug/L	3.229	11	192	202	6	Standard
⌈	**Ba**	**135**	**75.764**	ug/L	5.952	7	54	226	12	Standard
⌊	**Ba**	**137**	**79.566**	ug/L	4.971	6	99	415	9	Standard
⌈>	**Tb**	**159**		ug/L			801432	518	4	Standard
⌈	**Tl**	**205**	**2.529**	ug/L	0.335	13	79	55	14	Standard
⌊	**Pb**	**208**	**32.966**	ug/L	1.382	4	302	966	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 11:54:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			445315	968	7	Standard
⌊	**Be**	**9**	**0.727**	ug/L	0.438	60	4	5	57	Standard
	C	**13**		ug/L			28756	43212	1	Standard
	Cl	**37**		ug/L			1763477	1584739	1	Standard
⌈>	**Sc**	**45**		ug/L			604634	1305	0	Standard
⌈	**V**	**51**	**143.969**	ug/L	2.598	1	7658	8207	1	Standard
⌊	**V-1**	**51**	**9.527**	ug/L	0.248	2	354	545	2	Standard
⌈	**Cr**	**52**	**523.911**	ug/L	12.303	2	22715	24576	1	Standard
⌊	**Cr**	**53**	**60.792**	ug/L	4.379	7	231	326	6	Standard
⌊	**Mn**	**55**	**40.156**	ug/L	1.296	3	858	2735	2	Standard
⌈>	**Ge**	**72**		ug/L			47144	36	5	KED
⌈	**Co**	**59**	**2.282**	ug/L	1.910	83	3	10	84	KED
⌊	**Ni**	**60**	**83.426**	ug/L	3.065	3	583	107	8	KED
⌈	**Ni**	**62**	**105.534**	ug/L	17.450	16	99	22	13	KED
⌈	**Cu**	**63**	**88.921**	ug/L	6.305	7	88	322	2	KED
⌊	**Cu**	**65**	**86.255**	ug/L	10.857	12	51	153	12	KED
⌈	**Zn**	**66**	**470.534**	ug/L	25.720	5	128	224	5	KED
⌊	**Zn**	**67**	**505.796**	ug/L	163.711	32	17	39	34	KED
⌈	**As**	**75**	**11.894**	ug/L	4.183	35	4	3	32	KED
⌊	**Se**	**78**	**853.081**	ug/L	47.429	5	20	20	3	KED
	Y	**89**		ug/L			352824	227	17	Standard
	Kr	**83**		ug/L			41	27	32	Standard
⌈>	**In-1**	**115**		ug/L			9999	11	57	KED
⌈	**Mo**	**98**	**5.198**	ug/L	4.344	83	5	6	92	KED
⌊	**Cd**	**111**	**21.435**	ug/L	18.128	84	5	5	47	KED
⌊	**Cd**	**114**	**5.900**	ug/L	5.652	95	9	3	11	KED
⌈>	**In**	**115**		ug/L			440562	235	9	Standard
⌈	**Ag**	**107**	**3.610**	ug/L	0.988	27	34	34	19	Standard
⌈	**Sb**	**121**	**24.937**	ug/L	3.864	15	252	195	7	Standard
⌊	**Sb**	**123**	**26.572**	ug/L	1.758	6	192	160	10	Standard
⌈	**Ba**	**135**	**97.243**	ug/L	15.042	15	54	243	16	Standard
⌊	**Ba**	**137**	**103.354**	ug/L	3.315	3	99	454	10	Standard
⌈>	**Tb**	**159**		ug/L			801432	473	10	Standard
⌈	**Tl**	**205**	**2.895**	ug/L	0.774	26	79	57	21	Standard
⌊	**Pb**	**208**	**37.139**	ug/L	5.094	13	302	986	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 11:59:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			445315	718	4	Standard
⌊	**Be**	**9**	**0.654**	ug/L	0.343	52	4	3	50	Standard
	C	**13**		ug/L			28756	29575	2	Standard
	Cl	**37**		ug/L			1763477	1678830	1	Standard
⌈>	**Sc**	**45**		ug/L			604634	848	1	Standard
⌈	**V**	**51**	**179.051**	ug/L	2.538	1	7658	6638	2	Standard
⌊	**V-1**	**51**	**13.927**	ug/L	0.298	2	354	518	2	Standard
⌈	**Cr**	**52**	**640.414**	ug/L	6.098	0	22715	19536	2	Standard
⌊	**Cr**	**53**	**71.679**	ug/L	2.360	3	231	250	2	Standard
⌊	**Mn**	**55**	**13.137**	ug/L	0.463	3	858	582	2	Standard
⌈>	**Ge**	**72**		ug/L			47144	31	9	KED
⌈	**Co**	**59**	**0.492**	ug/L	0.473	96	3	1	100	KED
⌊	**Ni**	**60**	**17.249**	ug/L	6.935	40	583	20	47	KED
⌈	**Ni**	**62**	**35.164**	ug/L	19.603	55	99	6	45	KED
⌈	**Cu**	**63**	**61.038**	ug/L	12.001	19	88	193	14	KED
⌊	**Cu**	**65**	**67.125**	ug/L	4.835	7	51	104	7	KED
⌈	**Zn**	**66**	**292.138**	ug/L	37.498	12	128	121	3	KED
⌊	**Zn**	**67**	**225.578**	ug/L	73.689	32	17	15	33	KED
⌈	**As**	**75**	**20.516**	ug/L	1.421	6	4	4	15	KED
⌊	**Se**	**78**	**1070.316**	ug/L	277.064	25	20	21	16	KED
	Y	**89**		ug/L			352824	151	10	Standard
	Kr	**83**		ug/L			41	44	23	Standard
⌈>	**In-1**	**115**		ug/L			9999	10	36	KED
⌈	**Mo**	**98**	**4.486**	ug/L	0.546	12	5	6	26	KED
⌊	**Cd**	**111**	**14.595**	ug/L	12.814	87	5	4	81	KED
⌊	**Cd**	**114**	**2.383**	ug/L	3.157	132	9	1	106	KED
⌈>	**In**	**115**		ug/L			440562	224	3	Standard
⌈	**Ag**	**107**	**2.081**	ug/L	0.429	20	34	19	17	Standard
⌈	**Sb**	**121**	**8.026**	ug/L	1.788	22	252	60	25	Standard
⌊	**Sb**	**123**	**11.071**	ug/L	1.823	16	192	64	19	Standard
⌈	**Ba**	**135**	**22.811**	ug/L	2.032	8	54	54	8	Standard
⌊	**Ba**	**137**	**21.754**	ug/L	2.863	13	99	91	16	Standard
⌈>	**Tb**	**159**		ug/L			801432	390	3	Standard
⌈	**Tl**	**205**	**4.362**	ug/L	0.339	7	79	72	4	Standard
⌊	**Pb**	**208**	**13.001**	ug/L	0.478	3	302	287	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 12:04:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			445315	683	12	Standard
	Be	**9**	**0.400**	ug/L	0.696	173	4	2	173	Standard
	C	**13**		ug/L			28756	30068	2	Standard
	Cl	**37**		ug/L			1763477	1698038	2	Standard
>	**Sc**	**45**		ug/L			604634	924	4	Standard
	V	**51**	**172.038**	ug/L	2.317	1	7658	6942	3	Standard
	V-1	**51**	**11.670**	ug/L	0.463	3	354	472	2	Standard
	Cr	**52**	**620.984**	ug/L	13.859	2	22715	20615	2	Standard
	Cr	**53**	**68.617**	ug/L	7.310	10	231	260	5	Standard
	Mn	**55**	**11.952**	ug/L	0.881	7	858	576	5	Standard
>	**Ge**	**72**		ug/L			47144	26	4	KED
	Co	**59**	**1.012**	ug/L	1.291	127	3	3	124	KED
	Ni	**60**	**33.236**	ug/L	4.136	12	583	31	14	KED
	Ni	**62**	**28.875**	ug/L	18.553	64	99	4	65	KED
	Cu	**63**	**74.023**	ug/L	1.836	2	88	193	5	KED
	Cu	**65**	**84.096**	ug/L	13.823	16	51	107	17	KED
	Zn	**66**	**364.849**	ug/L	20.443	5	128	125	5	KED
	Zn	**67**	**426.700**	ug/L	173.724	40	17	23	36	KED
	As	**75**	**15.676**	ug/L	3.247	20	4	2	16	KED
	Se	**78**	**1294.764**	ug/L	140.540	10	20	22	10	KED
	Y	**89**		ug/L			352824	151	9	Standard
	Kr	**83**		ug/L			41	33	26	Standard
>	**In-1**	**115**		ug/L			9999	11	44	KED
	Mo	**98**	**5.858**	ug/L	4.026	68	5	8	74	KED
	Cd	**111**	**16.183**	ug/L	14.631	90	5	4	35	KED
	Cd	**114**	**8.679**	ug/L	5.126	59	9	6	59	KED
>	**In**	**115**		ug/L			440562	220	5	Standard
	Ag	**107**	**3.648**	ug/L	1.381	37	34	32	32	Standard
	Sb	**121**	**9.180**	ug/L	1.764	19	252	67	20	Standard
	Sb	**123**	**9.692**	ug/L	0.822	8	192	54	11	Standard
	Ba	**135**	**18.281**	ug/L	3.110	17	54	43	21	Standard
	Ba	**137**	**22.008**	ug/L	2.994	13	99	90	12	Standard
>	**Tb**	**159**		ug/L			801432	391	2	Standard
	Tl	**205**	**3.273**	ug/L	0.323	9	79	54	12	Standard
	Pb	**208**	**14.198**	ug/L	1.856	13	302	314	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 12:09:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042523.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			445315	401	1	Standard
	Be	**9**	**0.778**	ug/L	0.892	114	4	2	114	Standard
	C	**13**		ug/L			28756	25812	6	Standard
	Cl	**37**		ug/L			1763477	1580083	1	Standard
>	**Sc**	**45**		ug/L			604634	415	12	Standard
	V	**51**	**286.260**	ug/L	26.446	9	7658	5157	2	Standard
	V-1	**51**	**26.669**	ug/L	3.210	12	354	481	3	Standard
	Cr	**52**	**1009.594**	ug/L	89.261	8	22715	14971	2	Standard
	Cr	**53**	**115.514**	ug/L	11.450	9	231	196	7	Standard
	Mn	**55**	**32.273**	ug/L	3.002	9	858	695	2	Standard
>	**Ge**	**72**		ug/L			47144	20	125	KED
	Co	**59**	**-0.001**	ug/L	0.000	0	3	0		KED
	Ni	**60**	**24.314**	ug/L	27.457	112	583	6	69	KED
	Ni	**62**	**70.496**	ug/L	88.375	125	99	1		KED
	Cu	**63**	**33.011**	ug/L	32.451	98	88	42	130	KED
	Cu	**65**	**27.299**	ug/L	11.499	42	51	21	120	KED
	Zn	**66**	**72.026**	ug/L	64.885	90	128	31	142	KED
	Zn	**67**	**74.232**	ug/L	99.335	133	17	2	86	KED
	As	**75**	**137.250**	ug/L	189.522	138	4	4	26	KED
	Se	**78**	**7223.862**	ug/L	9539.727	132	20	21	21	KED
	Y	**89**		ug/L			352824	6	95	Standard
	Kr	**83**		ug/L			41	126	6	Standard
>	**In-1**	**115**		ug/L			9999	7	25	KED
	Mo	**98**	**7.295**	ug/L	1.067	14	5	8	28	KED
	Cd	**111**	**29.875**	ug/L	16.978	56	5	6	31	KED
	Cd	**114**	**12.604**	ug/L	12.732	101	9	6	92	KED
>	**In**	**115**		ug/L			440562	7	75	Standard
	Ag	**107**	**50.097**	ug/L	67.769	135	34	5	66	Standard
	Sb	**121**	**370.497**	ug/L	384.188	103	252	47	10	Standard
	Sb	**123**	**253.960**	ug/L	234.989	92	192	28	18	Standard
	Ba	**135**	**123.758**	ug/L	70.877	57	54	6	41	Standard
	Ba	**137**	**82.201**	ug/L	76.061	92	99	6	17	Standard
>	**Tb**	**159**		ug/L			801432	1	173	Standard
	Tl	**205**		ug/L			79	268	5	Standard
	Pb	**208**		ug/L			302	38	49	Standard

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GD00073	Instrument:	ICPMS1
Calibration Date:	04/26/2023 15:14		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Chromium-52	0	0	0.5	41374	10	18444.3	20	17638.1	50	16987.3	100	17040.91
Chromium-53	0	0	0.5	2014	10	1966.2	20	1931.6	50	1911.8	100	1957.27
Lead-208	0	0	0.1	91350	10	88004.6	20	87296.55	50	91093.74	100	91344.14

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory: Analytical Resources, LLC
Instrument: ICPMS1
Calibration: GD00073
Calibration Date: 4/26/2023

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Chromium-52	18580.77	71.0	1.0000		0.998	
Chromium-53	1630.145	49.0	0.9999		0.998	
Lead-208	74848.17	49.0	0.9999		0.998	

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GD00073
Instrument: ICPMS1
Calibration Date: 04/26/2023 15:14

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Arsenic-75a	0	0	0.2	250	10	265.5	20	265.45	50	270.12	100	268.46
Cadmium-111	0	0	0.1	300	10	274.7	20	270.65	50	274.76	100	276.11
Cadmium-114	0	0	0.1	650	10	732	20	708.3	50	717.5	100	710.49
Copper-63	0	0	0.5	4628	10	4619.9	20	4540.4	50	4378.7	100	4335.37
Copper-65	0	0	0.5	2368	10	2351	20	2280	50	2227.98	100	2183.1
Zinc-66	0	0	6	566	10	578.2	20	559.05	50	556.08	100	550.01
Zinc-67	0	0	6	88.83334	10	95.7	20	93.1	50	91.66	100	90.46

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Instrument: ICPMS1
Calibration: GD00073
Calibration Date: 4/26/2023

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Arsenic-75a	219.9217	49.1	1.0000		0.998	
Cadmium-111	232.7033	49.2	1.0000		0.998	
Cadmium-114	586.3817	49.2	1.0000		0.998	
Copper-63	3750.395	49.1	0.9999		0.998	
Copper-65	1901.68	49.1	0.9998		0.998	
Zinc-66	468.2233	49.0	1.0000		0.998	
Zinc-67	76.62556	49.1	0.9999		0.998	

Analytical Resources, Incorporated
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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 4/26/23 **Analyst:** MB **Sequence:** SL0Φ387 **Cal:** G0ΦΦΦ73

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CAL1	L466Φ		
		-CAL2	L4627		
		-CAL3	L4628		
		-CAL4	L4629		Ca sl. noisy-int, R-Value & QC OK (Not Needed)
		-CAL5	L4624		
		-CAL6	L463Φ		
		-IBL1	—		
		-ICV1	L3575		
		-ICB1	L466Φ		
		-CCV1	L4624		
		-CCB1	L466Φ		
	✓	-CRL1			
		-IFA1			Cr^{53} ↑
		-IFB1			
		-HCV1			Cr^{52}, Ba^{137} ↑ / In, Tb sl. noisy
		-HCV2			Cr^{52} ↑
	✓	-HCV1			↓
		-IBL2	—		
		-CCV2			
		-CCB2			Ge, In^{-1} ↑ (New cases)
	✓	-CAL1			
		-CCV3			
		-CCB3			
		-CRL1	L4627		

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 4/26/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted. MB 4/26/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-IBIFA1	L3578		Cr^{53} ↑
		-IFB1	L3579		
		-HCV1	L3671		Cr^{52}, Ba^{137} ↑ - Ba, Cr < 100
		-HCV2	L3672		Cr^{52} ↑
		-IBL3	———		
		-CCV4			
		-CCB4			
		BLDΦ18Φ-BLK2	REN		Fe, Na only
		↓ -BS2			↓
		BLDΦ292-BLK3			Na only
		↓ -BS3			↓
		23CΦ435-Φ2REI		100	Mg only
		↓ -Φ6REI		↓	↓
		↓ -Φ7REI		↓	↓
		23CΦ453-Φ1REI		↓	↓
		↓ -Φ2REI	↓	↓	↓
		SEQ-IBL4			
		-CCV5			
		↓ -CCB5			
		BLDΦ346-BLK3	REN		Na only
		↓ -BS3	↓		↓
#2→#3		BLDΦ472-BLK#3			Al, Fe, Mo only
↓		↓ -BS#3			↓
		BLDΦ23Φ-BLK2	↓		Fe, Pb only

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 4/26/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BLDΦ23Φ-BS2	REN		Fe, Pb only
		23CΦ666-Φ1	↓		↓
		BLDΦ23Φ-DUP2	↓		↓
		↓ -MS2	↓		↓
		SEQ-IBL5			
		↓ -CCV6			
		↓ -CCB6			
		BLDΦ181-BLK3	REN		Ba only
		↓ -BS3	↓		↓
		BLDΦ347-BLK2	↓		↓
		↓ -BS2	↓		↓
		BLDΦ717-BLK1	↓		No Mn
		↓ -BS1	↓		↓
		23DΦ576-Φ1	↓	10	↓
		23DΦ539-Φ1	↓	2	
		SEQ-IBL6			
		↓ -CCV7			Mn↓
		↓ -CCB7			
	✓	↓ -CAL1			Ca, K, Mo Removed
		↓ -CCV8			Mn↓ - Not Needed
		↓ -CCB8			
		23DΦ541-Φ1	REN		
		↓ -Φ2	↓		
		23DΦΦ62-Φ1	↓		Al, Fe only

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 4/26/23 **Analyst:** MS **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MS 4/26/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		230ΦΦ62-Φ3	REN		Al, Fe only
		↓ -Φ5	↓		↓
		↓ -Φ7	↓		↓
		BLDΦ472-DUP2	↓		Al 0.4t > IRL
		↓ -MS2	↓		↓
		↓ -MSD2	↓		↓
8 9→7		SEQ-IBL7			
		↓ -CCV9			
		↓ -CCB9			
		BLDΦ5Φ9-BLK1	REN		
		↓ -BS1	↓		
		BLDΦ51Φ-BLK1	↓		
		↓ -BS1	↓		
		230Φ14Φ-Φ1	↓		
		230Φ146-Φ2	↓		
		↓ -Φ4	↓		
		↓ -Φ1	↓		
		↓ -Φ3	↓		
		SEQ-IBL8			
		↓ -CCVA			
		↓ -CCBA			
		23CΦ658-Φ6	REN		Ba ONLY
		230Φ134-Φ2	↓		
		↓ -Φ1	↓		

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 4/26/23 **Analyst:** SD/MS **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23D0184-01	REN		
		↓ -02	↓		
		23D0124-04			
		↓ -02			Ge noisy - %R analytes OK / NoZn values match DUP
		BLD0510-DUP1			↓
		↓ -MS1	↓		Zn↑
		SEQ-IBL9			
		↓ -CCVB			
		↓ -CCBB			
		BLD0168-BS2	SWN	20	Cd ONLY
		BLD0365-BS2	↓	↓	↓
		23D0358-03	REN	5	Cr ONLY
		23C0674-01	↓	↓	As, Cu, Ni, Zn ONLY
		23C0648-02		2	As/Ba ONLY
		↓ -01	↓	↓	Ba ONLY
		23D0208-01		10	Na/Tl ONLY
		BLD0346-DUP4		↓	↓
		↓ -MS4	↓	↓	↓
		SEQ-IBLA			
		↓ -CCVC			
		↓ -CCBC			
		23C0435-02	REN	5	Mg Satd Mg NR/As ONLY
		↓ -04	↓	↓	↓
		↓ -05	↓	↓	↓

Analytical Resources, Incorporated
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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 4/26/23 **Analyst:** SD/MS **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MS 4/26/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23C0435-06	REN	5	SCF↑/Mg salted Mg NR/AS ONLY
		SEQ-IBLB			(Cr53↑)
		23C0435-07	REN	5	Mg salted Mg NR/AS ONLY
		23C0453-01	↓	↓	↓ ↓ ↓
		↓ -02			Mg↑
		↓ -03			
		SEQ-IBLC			(Cr53↑/Na↑+ noisy)
		-CCVD			Na, Mg, Al, ↓Fe↓
		-CCBD			
	✓	-CAL1			
		-CCVE			Na, Mg, Al, ↓Fe↓
		↓ -CCBE			
No RE1		23C0584-14RET	REN	10	Mn ONLY
↓		-16RET	↓	5	↓
		-18RET		↓	
		-20RET			Mn sl. noisy
↓		↓ -15RET	↓	↓	↓
		SEQ-IBLD			
		23C0453-04	REN	5	As, Cr, Mn ONLY
		23C0435-08	↓	↓	↓
		↓ -03	↓	10	AS/Mn ONLY
		SEQ-IBLE			
		↓ -CCVF			Na, Mg, Al, ↓Fe↓
		↓ -CCBF			

Analytical Resources, Incorporated
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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 4/26/23 **Analyst:** SD **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. SD 4/26/23 / MS 4/26/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
No RE		23C0584-17BRE	REN	5	Mn ONLY
↓		↓ -19BRE	↓	↓	↓
		23C0584-01			No Fe/Na
		BLD0180-DUP1			
		↓ -MS1			
		SEQ-IBLF			
		23C0584-02	REN		No Fe
		BLD0181-DUP1			
		↓ -MS1		Mn STL	
		SEQ-IBLG			
		-CCVG		Na, Mg, ↑Fe↓	
		-CCBG			
	✓	23C0584-04	REN	Mn↑	No ~~Fe~~/Mn
		-14		↓	No Fe
		-16			
		-18			
		SEQ-IBLH			
	✓	23C0584-20	REN		No Fe
		-15			
		-17			
		-19			
		SEQ-IBLI			
		-CCVH		Na, Mg, ↑Fe↓	
		-CCBH			

Analytical Resources, Incorporated
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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 4/26/23 **Analyst:** SD/MS **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
	✓	23C0584-05	REN		
		-07			
		-09			
		-11			
		SEQ-IBLJ			
		23C0690-01	REN	20	Na↑
		BLD0292-DUP1			
		-MS1			
		-MSD1			
		SEQ-IBLK			
		-CCV1			EMPTY TUBE ALL INT. STDs.↑
		-CCB1			
		23C0658-02	REN	5	
		-04			
		23C0584-03		20	
		-13			
		SEQ-IBLL			
		23C0690-03	REN	20	Na Spiked
		-05			
		-07			Na↑
		-09			
		SEQ-IBLM			
		-CCVJ			EMPTY TUBE ALL INT. STDs.↑
	↓	-CCBJ			

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 4/26/23 **Analyst:** SD **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
	✓	SEQ-CAL1			
		-CCVK			Na, Mg, & Fe54 ↓ ALL INT. STDs ↓
		-CCBK			Cr52 ↑ ALL INT. STDs ↓
		23C0672-02RE1	REN	5	ALL INT. STDs ↓
		23D0002-01			
		-03			
		-05			
		SEQ-IBL1			
		23C0715-01	REN	20	
		-03			
		-05			
		-07			
		SEQ-IBL2			
		-CCVL			Na, Mg, Al, Fe, Mn ↓ ALL INT. STDs ↓
		-CCBL			Cr52 ↑ ALL INT. STDs ↓
	✓	-CAL1			ALL ANALYTES BUT Ba & Tl REMOVED
		-CCVM			
		-CCBM			
		23C0736-01	REN		Ba/Tl ONLY
		-03			
		-05			
		-07			
		-11			
		-09			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 4/26/23 **Analyst:** SD/MS **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. SD 4/26/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		~~23C~~BLD0347DX1PZ	REN		Ba/Ti ONLY
		-MS2	↓		↓
		-MSD2			
		SEQ-TBLS			
		-CCVQ			
		-CCBQ			
		RINSE/DI			
			MS 4/26/23		

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Wednesday, April 26, 2023 14:42:48
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.045
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	5164.9	5164.867	110.250	2.1	Standard
	In	114.9	64609.9	-540063.877	282.030	0.1	Standard
	U	238.1	68908.8	68908.816	879.246	1.3	Standard
⌈	CeO	155.9	1317.9	0.014	0.000	2.6	Standard
| >	Ce	139.9	91179.9	91179.875	814.275	0.9	Standard
⌊	Ce++	70.0	538.5	0.006	0.000	4.9	Standard
	Bkgd	220.0	5.2	5.167	2.794	54.1	Standard

Current Conditions File Data

Current Value	Description
0.91	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
950.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.91	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Wednesday, April 26, 2023 14:53:30
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.052
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	6968.0	6967.966	150.124	2.2	Standard
	In	114.9	90121.2	90121.188	800.401	0.9	Standard
	U	238.1	96850.2	96850.151	1851.614	1.9	Standard
⌈	CeO	155.9	2645.2	0.024	0.000	1.9	Standard
| >	Ce	139.9	112427.6	112427.552	860.768	0.8	Standard
⌊	Ce++	70.0	912.0	0.008	0.000	5.4	Standard
	Bkgd	220.0	1.9	1.933	0.925	47.8	Standard

Current Conditions File Data

Current Value	Description
0.93	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
950.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.93	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 4/26/2023 2:42:47 PM
End Time: 4/26/2023 2:55:34 PM

STD Performance Check - [Failed]
Obtained Intensity (Be 9): 5164.87
Obtained Intensity (In 115): 64609.91
Obtained Intensity (U 238): 68908.82
Obtained Intensity (Bkgd 220): 5.17 - <Target not achieved>
Obtained Formula (Ce++ 70 / Ce 140): 0.006 (=538.54 / 91179.87)
Obtained Formula (CeO 156 / Ce 140): 0.014 (=1317.86 / 91179.87)
Obtained RSD (Be 9): 0.0213
Obtained RSD (In 115): 0.0005
Obtained RSD (U 238): 0.0128

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
0.94 mm	0.68 mm	78715.27

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 0.93
Obtained Intensity (In 115): 92880.96
Obtained Formula (CeO 156 / Ce 140): 0.0228 (=2506.22 / 109784.23)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/6.975), Target/Obtained resolution (0.7/0.714)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.695)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.710)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.677)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.999; Intercept = -15.45

KED Mode QID - Optimum value(s): Correlation Coefficient = 1.000; Intercept = -15.64

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 6967.97
Obtained Intensity (In 115): 90121.19
Obtained Intensity (U 238): 96850.15
Obtained Intensity (Bkgd 220): 1.93
Obtained Formula (Ce++ 70 / Ce 140): 0.008 (=911.96 / 112427.55)
Obtained Formula (CeO 156 / Ce 140): 0.024 (=2645.24 / 112427.55)
Obtained RSD (Be 9): 0.0215
Obtained RSD (In 115): 0.0089
Obtained RSD (U 238): 0.0191

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 4/26/2023 2:42:47 PM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 5
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 5164.87
		Obtained Intensity (In 115): 64609.91
		Obtained Intensity (U 238): 68908.82
		Obtained Intensity (Bkgd 220): 5.17 - <Target not achieved>
		Obtained Formula (Ce++ 70 / Ce 140): 0.006 (=538.54 / 91179.87)
		Obtained Formula (CeO 156 / Ce 140): 0.014 (=1317.86 / 91179.87)
		Obtained RSD (Be 9): 0.0213
		Obtained RSD (In 115): 0.0005
		Obtained RSD (U 238): 0.0128

		[Failed]
[Failed]

Torch Alignment
	Optimization Settings:
		Method: Torch Alignment.mth.
		Intensity Criterion: In 115 Maximum

	Optimization Results:
		Vertical	Horizontal	Intensity
[Passed]	0.94 mm	0.68 mm	78715.27

Nebulizer Gas Flow STD/KED [NEB]
	Optimization Settings:
		Method: Optimize.mth.
			Initial Try - Start/End/Step: 0.89/0.96/0.01.
		Intensity Criterion: In 115 Maximum
		Formula Criterion: CeO 156 / Ce 140 <= 0.025

	Optimization Results:
	Initial Try

		Obtained Intensity (In 115): 92880.96
		Obtained Formula (CeO 156 / Ce 140): 0.0228 (=2506.22 / 109784.23)
[Passed] Optimum value(s): 0.93

Mass Calibration and Resolution
	Optimization Settings:
		Method: Tuning.mth.
		MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
		Iterations: 6
		Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
		Peak height (%) for Res. Opt.: 10

	Optimization Results:
	Initial Try
		Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.702)
		Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.715)
		Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.695)
		Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.653) - <Target not achieved>
		[Failed]
	Retry 1
		Target/Obtained mass (7.016/6.975), Target/Obtained resolution (0.7/0.714)
		Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.695)
		Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.710)
		Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.677)
[Passed] Optimum value(s): N/A

QID STD/DRC
	Optimization Settings:
		Method: QID Calibration.mth.
			Initial Try - Start/End/Step: -20/0/0.5.

	Optimization Results:
	Initial Try

  Optimum value(s): Correlation Coefficient = 0.999; Intercept = -15.45

	Analyte	Mass	Points	DAC	MaxIntensity

		Li	7	41	-15.5	45022.8
		Mg	24	41	-15.5	34726.2
		In	115	41	-12.5	93903.6
		Ce	140	41	-12	114997
		Pb	208	41	-11	60246.8
		U	238	41	-11	100009

KED Mode QID
	Optimization Settings:
		Method: QID Calibration.mth.
			Initial Try - Start/End/Step: -20/0/0.5.

	Optimization Results:
	Initial Try

  Optimum value(s): Correlation Coefficient = 1.000; Intercept = -15.64

	Analyte	Mass	Points	DAC	MaxIntensity

		Li	7	41	-15.5	32240.3
		Mg	24	41	-15	56543.7
		In	115	41	-12	128907
		Ce	140	41	-11.5	115041
		Pb	208	41	-11	56427.2

```
            U       238        41     -10.5         121337

STD Performance Check
        Optimization Settings:
                Method: STD Performance Check.mth.
                Intensity Criterion: Be 9 > 2000
                Intensity Criterion: In 115 > 40000
                Intensity Criterion: U 238 > 30000
                Intensity Criterion: Bkgd 220 <= 5
                Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
                Formula Criterion: CeO 156 / Ce 140 <= 0.025
                RSD Criterion: Be 9.0122 < 0.05
                RSD Criterion: In 114.904 < 0.05
                RSD Criterion: U 238.05 < 0.05

        Optimization Results:
        Initial Try
                Obtained Intensity (Be 9): 6967.97
                Obtained Intensity (In 115): 90121.19
                Obtained Intensity (U 238): 96850.15
                Obtained Intensity (Bkgd 220): 1.93
                Obtained Formula (Ce++ 70 / Ce 140): 0.008 (=911.96 / 112427.55)
                Obtained Formula (CeO 156 / Ce 140): 0.024 (=2645.24 / 112427.55)
                Obtained RSD (Be 9): 0.0215
                Obtained RSD (In 115): 0.0089
                Obtained RSD (U 238): 0.0191

[Passed]  Optimum value(s): N/A

End Time: 4/26/2023 2:55:34 PM
```

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 15:14:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				28612	2	Standard
	Cl	**37**		ug/L				4292670	3	Standard
⌈>	**Sc**	**45**		ug/L				428118	2	Standard
|	**Na**	**23**		ug/L				12669	6	Standard
|	**Mg**	**24**		ug/L				1626	2	Standard
|	**Al**	**27**		ug/L				3178	2	Standard
|	**K**	**39**		ug/L				392918	0	Standard
|	**Ca**	**44**		ug/L				9544	2	Standard
|	**Cr**	**52**		ug/L				12493	1	Standard
|	**Cr**	**53**		ug/L				93	6	Standard
|	**Fe**	**54**		ug/L				65504	0	Standard
|	**Fe**	**57**		ug/L				16753	1	Standard
⌊	**Mn**	**55**		ug/L				320	2	Standard
⌈>	**Ge**	**72**		ug/L				33859	2	KED
|	**Ni**	**60**		ug/L				15	18	KED
|	**Ni**	**62**		ug/L				2	86	KED
|	**Cu**	**63**		ug/L				59	12	KED
|	**Cu**	**65**		ug/L				33	34	KED
|	**Zn**	**66**		ug/L				40	33	KED
|	**Zn**	**67**		ug/L				5	33	KED
⌊	**As**	**75**		ug/L				1	41	KED
	Y	**89**		ug/L				276930	2	Standard
	Kr	**83**		ug/L				38	19	Standard
⌈>	**In-1**	**115**		ug/L				7539	1	KED
|	**Mo**	**98**		ug/L				4	101	KED
|	**Cd**	**111**		ug/L				2	89	KED
⌊	**Cd**	**114**		ug/L				2	92	KED
⌈>	**In**	**115**		ug/L				526809	2	Standard
|	**Ba**	**135**		ug/L				35	17	Standard
⌊	**Ba**	**137**		ug/L				64	17	Standard
⌈>	**Tb**	**159**		ug/L				1145720	0	Standard
|	**Tl**	**205**		ug/L				52	28	Standard
⌊	**Pb**	**208**		ug/L				280	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 15:19:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28612	31450	2	Standard
	Cl	**37**		ug/L			4292670	4315591	3	Standard
⌈>	**Sc**	**45**		ug/L			428118	443840	2	Standard
|	**Na**	**23**	**100.000**	ug/L	0.868	0	12669	1641868	3	Standard
|	**Mg**	**24**	**20.000**	ug/L	0.377	1	1626	444874	3	Standard
|	**Al**	**27**	**20.000**	ug/L	0.326	1	3178	403019	0	Standard
|	**K**	**39**	**20.000**	ug/L	0.124	0	392918	624190	2	Standard
|	**Ca**	**44**	**50.000**	ug/L	1.267	2	9544	57578	3	Standard
|	**Cr**	**52**	**0.500**	ug/L	0.013	2	12493	20687	2	Standard
|	**Cr**	**53**	**0.500**	ug/L	0.009	1	93	1007	2	Standard
|	**Fe**	**54**	**36.000**	ug/L	1.212	3	65504	140612	1	Standard
|	**Fe**	**57**	**36.000**	ug/L	1.604	4	16753	44563	3	Standard
⌊	**Mn**	**55**	**0.500**	ug/L	0.009	1	320	12503	2	Standard
⌈>	**Ge**	**72**		ug/L			33859	33778	0	KED
|	**Ni**	**60**	**0.500**	ug/L	0.045	8	15	767	8	KED
|	**Ni**	**62**	**0.500**	ug/L	0.028	5	2	135	5	KED
|	**Cu**	**63**	**0.500**	ug/L	0.015	3	59	2314	2	KED
|	**Cu**	**65**	**0.500**	ug/L	0.004	0	33	1184	1	KED
|	**Zn**	**66**	**6.000**	ug/L	0.066	1	40	3396	1	KED
|	**Zn**	**67**	**6.000**	ug/L	0.155	2	5	533	2	KED
⌊	**As**	**75**	**0.200**	ug/L	0.013	6	1	50	6	KED
	Y	**89**		ug/L			276930	290387	2	Standard
	Kr	**83**		ug/L			38	46	17	Standard
⌈>	**In-1**	**115**		ug/L			7539	7530	1	KED
|	**Mo**	**98**	**0.200**	ug/L	0.047	23	4	246	23	KED
|	**Cd**	**111**	**0.100**	ug/L	0.021	21	2	30	18	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.016	16	2	65	14	KED
⌈>	**In**	**115**		ug/L			526809	535556	1	Standard
|	**Ba**	**135**	**0.500**	ug/L	0.002	0	35	2967	1	Standard
⌊	**Ba**	**137**	**0.500**	ug/L	0.010	1	64	5254	0	Standard
⌈>	**Tb**	**159**		ug/L			1145720	1177115	0	Standard
|	**Tl**	**205**	**0.200**	ug/L	0.003	1	52	12751	1	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.001	0	280	9135	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 15:24:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28612	54178	4	Standard
	Cl	**37**		ug/L			4292670	4513959	3	Standard
⌈>	**Sc**	**45**		ug/L			428118	450277	0	Standard
|	**Na**	**23**	**1001.014**	ug/L	20.272	2	12669	18418787	2	Standard
|	**Mg**	**24**	**1000.032**	ug/L	38.813	3	1626	24466069	3	Standard
|	**Al**	**27**	**1000.030**	ug/L	28.590	2	3178	21901491	2	Standard
|	**K**	**39**	**1000.078**	ug/L	15.549	1	392918	14057252	1	Standard
|	**Ca**	**44**	**1000.118**	ug/L	40.343	4	9544	1025454	3	Standard
|	**Cr**	**52**	**10.002**	ug/L	0.201	2	12493	184443	1	Standard
|	**Cr**	**53**	**10.001**	ug/L	0.246	2	93	19662	2	Standard
|	**Fe**	**54**	**1000.137**	ug/L	11.545	1	65504	2361043	0	Standard
|	**Fe**	**57**	**1000.089**	ug/L	16.344	1	16753	840415	1	Standard
⌊	**Mn**	**55**	**10.000**	ug/L	0.276	2	320	251530	2	Standard
⌈>	**Ge**	**72**		ug/L			33859	34679	0	KED
|	**Ni**	**60**	**10.001**	ug/L	0.358	3	15	16035	3	KED
|	**Ni**	**62**	**9.999**	ug/L	0.236	2	2	2639	2	KED
|	**Cu**	**63**	**10.000**	ug/L	0.076	0	59	46199	0	KED
|	**Cu**	**65**	**10.000**	ug/L	0.237	2	33	23510	1	KED
|	**Zn**	**66**	**9.999**	ug/L	0.147	1	40	5782	1	KED
|	**Zn**	**67**	**10.135**	ug/L	0.194	1	5	957	1	KED
⌊	**As**	**75**	**10.000**	ug/L	0.208	2	1	2655	1	KED
	Y	**89**		ug/L			276930	304694	1	Standard
	Kr	**83**		ug/L			38	45	12	Standard
⌈>	**In-1**	**115**		ug/L			7539	7715	0	KED
|	**Mo**	**98**	**10.000**	ug/L	0.179	1	4	13221	1	KED
|	**Cd**	**111**	**10.000**	ug/L	0.063	0	2	2747	0	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.252	2	2	7320	2	KED
⌈>	**In**	**115**		ug/L			526809	567876	2	Standard
|	**Ba**	**135**	**10.000**	ug/L	0.242	2	35	63178	1	Standard
⌊	**Ba**	**137**	**10.001**	ug/L	0.460	4	64	112652	1	Standard
⌈>	**Tb**	**159**		ug/L			1145720	1222450	0	Standard
|	**Tl**	**205**	**10.000**	ug/L	0.040	0	52	677752	0	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.067	0	280	880046	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 15:29:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28612	50857	1	Standard
	Cl	**37**		ug/L			4292670	4696947	2	Standard
⌈>	**Sc**	**45**		ug/L			428118	461101	1	Standard
|	**Na**	**23**	**1984.560**	ug/L	24.142	1	12669	36274485	2	Standard
|	**Mg**	**24**	**1989.950**	ug/L	49.944	2	1626	48870109	2	Standard
|	**Al**	**27**	**1999.758**	ug/L	87.405	4	3178	44811371	3	Standard
|	**K**	**39**	**1994.093**	ug/L	59.929	3	392918	27959019	3	Standard
|	**Ca**	**44**	**2013.506**	ug/L	137.320	6	9544	2163269	8	Standard
|	**Cr**	**52**	**19.865**	ug/L	0.565	2	12493	352762	3	Standard
|	**Cr**	**53**	**19.842**	ug/L	0.152	0	93	38632	1	Standard
|	**Fe**	**54**	**1979.099**	ug/L	17.831	0	65504	4528836	0	Standard
|	**Fe**	**57**	**1991.651**	ug/L	28.026	1	16753	1668357	1	Standard
⌊	**Mn**	**55**	**20.006**	ug/L	0.131	0	320	515567	0	Standard
⌈>	**Ge**	**72**		ug/L			33859	34837	0	KED
|	**Ni**	**60**	**19.929**	ug/L	0.285	1	15	31635	1	KED
|	**Ni**	**62**	**19.911**	ug/L	0.430	2	2	5185	1	KED
|	**Cu**	**63**	**19.914**	ug/L	0.033	0	59	90808	1	KED
|	**Cu**	**65**	**19.860**	ug/L	0.180	0	33	45600	1	KED
|	**Zn**	**66**	**19.821**	ug/L	0.528	2	40	11181	2	KED
|	**Zn**	**67**	**19.920**	ug/L	0.057	0	5	1862	0	KED
⌊	**As**	**75**	**19.982**	ug/L	0.319	1	1	5309	0	KED
	Y	**89**		ug/L			276930	298231	3	Standard
	Kr	**83**		ug/L			38	50	21	Standard
⌈>	**In-1**	**115**		ug/L			7539	7725	3	KED
|	**Mo**	**98**	**19.976**	ug/L	0.670	3	4	26297	0	KED
|	**Cd**	**111**	**19.940**	ug/L	0.839	4	2	5413	1	KED
⌊	**Cd**	**114**	**19.863**	ug/L	0.379	1	2	14166	2	KED
⌈>	**In**	**115**		ug/L			526809	558750	2	Standard
|	**Ba**	**135**	**20.052**	ug/L	0.225	1	35	125955	1	Standard
⌊	**Ba**	**137**	**20.035**	ug/L	0.346	1	64	223702	1	Standard
⌈>	**Tb**	**159**		ug/L			1145720	1242075	0	Standard
|	**Tl**	**205**	**19.903**	ug/L	0.059	0	52	1344420	1	Standard
⌊	**Pb**	**208**	**19.904**	ug/L	0.153	0	280	1745931	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 15:34:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28612	28620	4	Standard
	Cl	**37**		ug/L			4292670	4939850	3	Standard
⌈>	**Sc**	**45**		ug/L			428118	466517	1	Standard
|	**Na**	**23**	**4978.812**	ug/L	126.872	2	12669	90125463	1	Standard
|	**Mg**	**24**	**4975.983**	ug/L	125.430	2	1626	120719012	1	Standard
|	**Al**	**27**	**4983.669**	ug/L	224.389	4	3178	111176922	3	Standard
|	**K**	**39**	**4978.962**	ug/L	59.025	1	392918	68542858	0	Standard
|	**Ca**	**44**	**5019.711**	ug/L	164.918	3	9544	5544388	1	Standard
|	**Cr**	**52**	**49.721**	ug/L	0.638	1	12493	849365	1	Standard
|	**Cr**	**53**	**49.761**	ug/L	0.251	0	93	95590	1	Standard
|	**Fe**	**54**	**4963.275**	ug/L	82.323	1	65504	10982810	1	Standard
|	**Fe**	**57**	**5061.838**	ug/L	82.846	1	16753	4541215	0	Standard
⌊	**Mn**	**55**	**49.593**	ug/L	1.163	2	320	1241960	2	Standard
⌈>	**Ge**	**72**		ug/L			33859	35545	0	KED
|	**Ni**	**60**	**49.637**	ug/L	0.373	0	15	77559	1	KED
|	**Ni**	**62**	**49.571**	ug/L	1.287	2	2	12627	2	KED
|	**Cu**	**63**	**49.487**	ug/L	0.247	0	59	218935	0	KED
|	**Cu**	**65**	**49.578**	ug/L	0.310	0	33	111399	0	KED
|	**Zn**	**66**	**49.712**	ug/L	0.896	1	40	27804	1	KED
|	**Zn**	**67**	**49.658**	ug/L	0.631	1	5	4583	0	KED
⌊	**As**	**75**	**49.970**	ug/L	0.370	0	1	13506	1	KED
	Y	**89**		ug/L			276930	298463	1	Standard
	Kr	**83**		ug/L			38	59	4	Standard
⌈>	**In-1**	**115**		ug/L			7539	8238	1	KED
|	**Mo**	**98**	**49.608**	ug/L	1.120	2	4	67049	0	KED
|	**Cd**	**111**	**49.552**	ug/L	1.723	3	2	13738	2	KED
⌊	**Cd**	**114**	**49.504**	ug/L	0.676	1	2	35875	1	KED
⌈>	**In**	**115**		ug/L			526809	540440	2	Standard
|	**Ba**	**135**	**50.294**	ug/L	1.403	2	35	314695	1	Standard
⌊	**Ba**	**137**	**50.329**	ug/L	0.879	1	64	561871	0	Standard
⌈>	**Tb**	**159**		ug/L			1145720	1237392	0	Standard
|	**Tl**	**205**	**50.697**	ug/L	0.775	1	52	3667100	1	Standard
⌊	**Pb**	**208**	**50.342**	ug/L	0.591	1	280	4554687	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 15:41:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28612	43470	4	Standard
	Cl	**37**		ug/L			4292670	5097807	3	Standard
>	**Sc**	**45**		ug/L			428118	462267	3	Standard
	Na	**23**	**10067.111**	ug/L	192.542	1	12669	184787002	4	Standard
	Mg	**24**	**10028.101**	ug/L	73.645	0	1626	243365120	2	Standard
	Al	**27**	**9963.354**	ug/L	208.326	2	3178	217544222	1	Standard
	K	**39**	**10104.429**	ug/L	403.545	3	392918	142318042	4	Standard
	Ca	**44**	**10051.252**	ug/L	238.031	2	9544	11179101	0	Standard
	Cr	**52**	**100.347**	ug/L	1.499	1	12493	1704091	2	Standard
	Cr	**53**	**100.666**	ug/L	3.266	3	93	195727	1	Standard
	Fe	**54**	**10059.185**	ug/L	363.516	3	65504	22413903	2	Standard
	Fe	**57**	**10071.564**	ug/L	187.936	1	16753	9154112	3	Standard
	Mn	**55**	**103.261**	ug/L	2.406	2	320	2873457	1	Standard
>	**Ge**	**72**		ug/L			33859	35861	0	KED
	Ni	**60**	**99.326**	ug/L	0.702	0	15	153121	0	KED
	Ni	**62**	**98.947**	ug/L	1.405	1	2	24563	1	KED
	Cu	**63**	**99.327**	ug/L	0.503	0	59	433537	0	KED
	Cu	**65**	**99.126**	ug/L	0.587	0	33	218310	0	KED
	Zn	**66**	**99.417**	ug/L	0.786	0	40	55001	0	KED
	Zn	**67**	**99.336**	ug/L	2.840	2	5	9046	2	KED
	As	**75**	**99.640**	ug/L	1.400	1	1	26846	1	KED
	Y	**89**		ug/L			276930	290707	1	Standard
	Kr	**83**		ug/L			38	53	36	Standard
>	**In-1**	**115**		ug/L			7539	7958	2	KED
	Mo	**98**	**100.709**	ug/L	2.126	2	4	134664	0	KED
	Cd	**111**	**100.701**	ug/L	2.502	2	2	27611	0	KED
	Cd	**114**	**100.339**	ug/L	0.551	0	2	71049	1	KED
>	**In**	**115**		ug/L			526809	508943	1	Standard
	Ba	**135**	**101.286**	ug/L	2.425	2	35	623621	2	Standard
	Ba	**137**	**101.128**	ug/L	4.009	3	64	1104383	2	Standard
>	**Tb**	**159**		ug/L			1145720	1234929	1	Standard
	Tl	**205**	**100.261**	ug/L	2.789	2	52	7299278	1	Standard
	Pb	**208**	**100.271**	ug/L	2.311	2	280	9134414	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 15:49:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28612	30398	2	Standard
	Cl	**37**		ug/L			4292670	4726469	2	Standard
⌈>	**Sc**	**45**		ug/L			428118	468913	1	Standard
|	**Na**	**23**	**0.572**	ug/L	0.694	121	12669	24455	51	Standard
|	**Mg**	**24**	**0.468**	ug/L	0.753	161	1626	13201	139	Standard
|	**Al**	**27**	**0.679**	ug/L	0.576	84	3178	18454	68	Standard
|	**K**	**39**	**0.744**	ug/L	0.926	124	392918	440865	1	Standard
|	**Ca**	**44**	**-0.422**	ug/L	0.650	153	9544	9973	6	Standard
|	**Cr**	**52**	**0.055**	ug/L	0.017	31	12493	14615	1	Standard
|	**Cr**	**53**	**0.025**	ug/L	0.018	73	93	150	22	Standard
|	**Fe**	**54**	**0.048**	ug/L	0.869	1828	65504	71838	1	Standard
|	**Fe**	**57**	**4.795**	ug/L	0.618	12	16753	22758	1	Standard
⌊	**Mn**	**55**	**0.009**	ug/L	0.011	129	320	599	53	Standard
⌈>	**Ge**	**72**		ug/L			33859	36656	1	KED
|	**Ni**	**60**	**0.000**	ug/L	0.004	936	15	17	32	KED
|	**Ni**	**62**	**0.009**	ug/L	0.005	49	2	5	21	KED
|	**Cu**	**63**	**0.004**	ug/L	0.001	31	59	81	7	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.002	68	33	30	12	KED
|	**Zn**	**66**	**0.020**	ug/L	0.009	46	40	54	8	KED
|	**Zn**	**67**	**0.009**	ug/L	0.066	728	5	6	87	KED
⌊	**As**	**75**	**0.009**	ug/L	0.009	92	1	4	53	KED
	Y	**89**		ug/L			276930	291884	1	Standard
	Kr	**83**		ug/L			38	46	27	Standard
⌈>	**In-1**	**115**		ug/L			7539	8174	1	KED
|	**Mo**	**98**	**0.014**	ug/L	0.003	22	4	23	18	KED
|	**Cd**	**111**	**0.000**	ug/L	0.009	1817	2	2	94	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.003	96	2	4	44	KED
⌈>	**In**	**115**		ug/L			526809	540644	3	Standard
|	**Ba**	**135**	**0.007**	ug/L	0.009	135	35	83	78	Standard
⌊	**Ba**	**137**	**0.007**	ug/L	0.009	136	64	146	77	Standard
⌈>	**Tb**	**159**		ug/L			1145720	1225959	1	Standard
|	**Tl**	**205**	**0.010**	ug/L	0.010	99	52	770	91	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.009	143	280	887	94	Standard

Sample Information

Sample Date/Time: Wednesday, April 26, 2023 15:41:44
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.m
Mass Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

Calibration

Analyte	Mass	r Corr Coef	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
C	13							
Cl	37							
Sc	45							
Na	23	**0.9999**	0.040	100.00	1000	2000	5000	10000
Mg	24	**1.0000**	0.053	20.00	1000	2000	5000	10000
Al	27	**1.0000**	0.047	20.00	1000	2000	5000	10000
K	39	**0.9998**	0.030	20.00	1000	2000	5000	10000
Ca	44	**0.9999**	0.002	50.00	1000	2000	5000	10000
Cr	52	**1.0000**	0.036	0.50	10	20	50	100
Cr	53	**0.9999**	0.004	0.50	10	20	50	100
Fe	54	**0.9999**	0.005	36.00	1000	2000	5000	10000
Fe	57	**0.9998**	0.002	36.00	1000	2000	5000	10000
Mn	55	**0.9982**	0.060	0.50	10	20	50	100
Ge	72							
Ni	60	**0.9999**	0.043	0.50	10	20	50	100
Ni	62	**0.9998**	0.007	0.50	10	20	50	100
Cu	63	**0.9999**	0.122	0.50	10	20	50	100
Cu	65	**0.9998**	0.061	0.50	10	20	50	100
Zn	66	**0.9999**	0.015	6.00	10	20	50	100
Zn	67	**0.9999**	0.003	6.00	10	20	50	100
As	75	**1.0000**	0.008	0.20	10	20	50	100
Y	89							
Kr	83							
In-1	115							
Mo	98	**0.9999**	0.168	0.20	10	20	50	100
Cd	111	**0.9999**	0.034	0.10	10	20	50	100
Cd	114	**0.9999**	0.089	0.10	10	20	50	100
In	115							
Ba	135	**0.9997**	0.012	0.50	10	20	50	100
Ba	137	**0.9998**	0.021	0.50	10	20	50	100
Tb	159							
Tl	205	**0.9999**	0.059	0.20	10	20	50	100
Pb	208	**1.0000**	0.074	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 15:55:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28612	34228	4	Standard
	Cl	**37**		ug/L			4292670	5095779	3	Standard
⌈>	**Sc**	**45**		ug/L			428118	482535	1	Standard
|	**Na**	**23**	**5239.546**	ug/L	132.572	2	12669	100377136	3	Standard
|	**Mg**	**24**	**5078.370**	ug/L	84.038	1	1626	128657216	2	Standard
|	**Al**	**27**	**5139.071**	ug/L	97.862	1	3178	117201523	3	Standard
|	**K**	**39**	**5033.316**	ug/L	77.365	1	392918	74229657	1	Standard
|	**Ca**	**44**	**5180.846**	ug/L	100.938	1	9544	6021471	0	Standard
|	**Cr**	**52**	**50.027**	ug/L	1.237	2	12493	894185	3	Standard
|	**Cr**	**53**	**50.550**	ug/L	1.246	2	93	102679	0	Standard
|	**Fe**	**54**	**5013.029**	ug/L	65.122	1	65504	11704194	2	Standard
|	**Fe**	**57**	**4953.063**	ug/L	72.437	1	16753	4709492	2	Standard
⌊	**Mn**	**55**	**46.274**	ug/L	0.253	0	320	1344902	1	Standard
⌈>	**Ge**	**72**		ug/L			33859	36097	2	KED
|	**Ni**	**60**	**52.648**	ug/L	1.551	2	15	81660	0	KED
|	**Ni**	**62**	**50.876**	ug/L	1.035	2	2	12709	0	KED
|	**Cu**	**63**	**53.353**	ug/L	1.412	2	59	234341	1	KED
|	**Cu**	**65**	**52.832**	ug/L	1.665	3	33	117092	2	KED
|	**Zn**	**66**	**50.438**	ug/L	1.054	2	40	28098	0	KED
|	**Zn**	**67**	**50.350**	ug/L	0.307	0	5	4618	2	KED
⌊	**As**	**75**	**48.369**	ug/L	1.468	3	1	13112	1	KED
	Y	**89**		ug/L			276930	298993	1	Standard
	Kr	**83**		ug/L			38	44	6	Standard
⌈>	**In-1**	**115**		ug/L			7539	8187	2	KED
|	**Mo**	**98**	**48.643**	ug/L	0.637	1	4	66925	1	KED
|	**Cd**	**111**	**50.046**	ug/L	1.088	2	2	14118	0	KED
⌊	**Cd**	**114**	**49.864**	ug/L	1.349	2	2	36316	1	KED
⌈>	**In**	**115**		ug/L			526809	561240	3	Standard
|	**Ba**	**135**	**47.784**	ug/L	0.288	0	35	324477	2	Standard
⌊	**Ba**	**137**	**48.484**	ug/L	0.575	1	64	584050	2	Standard
⌈>	**Tb**	**159**		ug/L			1145720	1278163	0	Standard
|	**Tl**	**205**	**52.120**	ug/L	2.035	3	52	3928739	4	Standard
⌊	**Pb**	**208**	**50.702**	ug/L	0.589	1	280	4781767	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 16:03:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28612	30548	5	Standard
	Cl	**37**		ug/L			4292670	4697205	2	Standard
⌈>	**Sc**	**45**		ug/L			428118	468897	0	Standard
|	**Na**	**23**	**0.097**	ug/L	0.006	6	12669	15673	1	Standard
|	**Mg**	**24**	**0.029**	ug/L	0.003	11	1626	2498	2	Standard
|	**Al**	**27**	**0.415**	ug/L	0.005	1	3178	12684	0	Standard
|	**K**	**39**	**0.205**	ug/L	0.472	230	392918	433237	1	Standard
|	**Ca**	**44**	**-1.048**	ug/L	0.350	33	9544	9271	3	Standard
|	**Cr**	**52**	**0.056**	ug/L	0.028	50	12493	14638	2	Standard
|	**Cr**	**53**	**0.022**	ug/L	0.003	15	93	145	4	Standard
|	**Fe**	**54**	**-0.298**	ug/L	0.977	327	65504	71065	2	Standard
|	**Fe**	**57**	**3.789**	ug/L	0.271	7	16753	21835	0	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.000	20	320	376	1	Standard
⌈>	**Ge**	**72**		ug/L			33859	36049	0	KED
|	**Ni**	**60**	**0.001**	ug/L	0.003	179	15	19	20	KED
|	**Ni**	**62**	**-0.001**	ug/L	0.004	691	2	2	43	KED
|	**Cu**	**63**	**0.004**	ug/L	0.003	96	59	78	19	KED
|	**Cu**	**65**	**0.005**	ug/L	0.006	104	33	47	26	KED
|	**Zn**	**66**	**0.012**	ug/L	0.022	178	40	49	25	KED
|	**Zn**	**67**	**0.003**	ug/L	0.052	1888	5	6	75	KED
⌊	**As**	**75**	**0.010**	ug/L	0.002	19	1	4	11	KED
	Y	**89**		ug/L			276930	293146	0	Standard
	Kr	**83**		ug/L			38	38	18	Standard
⌈>	**In-1**	**115**		ug/L			7539	8356	1	KED
|	**Mo**	**98**	**0.008**	ug/L	0.003	36	4	15	23	KED
|	**Cd**	**111**	**0.004**	ug/L	0.008	234	2	3	68	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.003	193	2	3	52	KED
⌈>	**In**	**115**		ug/L			526809	547387	0	Standard
|	**Ba**	**135**	**0.001**	ug/L	0.001	121	35	43	18	Standard
⌊	**Ba**	**137**	**0.001**	ug/L	0.001	62	64	76	7	Standard
⌈>	**Tb**	**159**		ug/L			1145720	1230059	1	Standard
|	**Tl**	**205**	**0.003**	ug/L	0.001	18	52	291	13	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	25	280	376	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 16:08:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28612	29578	3	Standard
	Cl	**37**		ug/L			4292670	5170191	1	Standard
⌈>	**Sc**	**45**		ug/L			428118	480187	2	Standard
|	**Na**	**23**	**5054.191**	ug/L	71.989	1	12669	96316166	1	Standard
|	**Mg**	**24**	**5066.705**	ug/L	159.442	3	1626	127679084	1	Standard
|	**Al**	**27**	**5121.780**	ug/L	75.126	1	3178	116195527	1	Standard
|	**K**	**39**	**4903.272**	ug/L	101.929	2	392918	71960791	1	Standard
|	**Ca**	**44**	**5018.219**	ug/L	91.575	1	9544	5804734	1	Standard
|	**Cr**	**52**	**49.743**	ug/L	1.578	3	12493	884321	1	Standard
|	**Cr**	**53**	**50.041**	ug/L	0.627	1	93	101167	1	Standard
|	**Fe**	**54**	**4914.643**	ug/L	112.623	2	65504	11415254	0	Standard
|	**Fe**	**57**	**4984.253**	ug/L	81.816	1	16753	4715280	2	Standard
⌊	**Mn**	**55**	**45.470**	ug/L	1.267	2	320	1314546	0	Standard
⌈>	**Ge**	**72**		ug/L			33859	35882	0	KED
|	**Ni**	**60**	**50.611**	ug/L	0.361	0	15	78073	0	KED
|	**Ni**	**62**	**50.755**	ug/L	0.123	0	2	12608	0	KED
|	**Cu**	**63**	**50.650**	ug/L	1.276	2	59	221213	1	KED
|	**Cu**	**65**	**50.981**	ug/L	0.321	0	33	112363	1	KED
|	**Zn**	**66**	**50.839**	ug/L	0.982	1	40	28165	2	KED
|	**Zn**	**67**	**51.406**	ug/L	0.886	1	5	4687	1	KED
⌊	**As**	**75**	**50.630**	ug/L	0.133	0	1	13650	0	KED
	Y	**89**		ug/L			276930	298026	1	Standard
	Kr	**83**		ug/L			38	52	16	Standard
⌈>	**In-1**	**115**		ug/L			7539	7943	1	KED
|	**Mo**	**98**	**50.662**	ug/L	0.977	1	4	67628	1	KED
|	**Cd**	**111**	**51.090**	ug/L	1.083	2	2	13985	1	KED
⌊	**Cd**	**114**	**50.816**	ug/L	0.418	0	2	35915	0	KED
⌈>	**In**	**115**		ug/L			526809	544547	1	Standard
|	**Ba**	**135**	**48.891**	ug/L	1.347	2	35	322093	1	Standard
⌊	**Ba**	**137**	**48.978**	ug/L	1.170	2	64	572491	1	Standard
⌈>	**Tb**	**159**		ug/L			1145720	1272048	1	Standard
|	**Tl**	**205**	**50.517**	ug/L	0.464	0	52	3789545	2	Standard
⌊	**Pb**	**208**	**49.298**	ug/L	0.906	1	280	4626360	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 16:15:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28612	30831	3	Standard
	Cl	**37**		ug/L			4292670	4727449	2	Standard
⌈>	**Sc**	**45**		ug/L			428118	476875	2	Standard
|	**Na**	**23**	**0.060**	ug/L	0.015	25	12669	15243	2	Standard
|	**Mg**	**24**	**0.025**	ug/L	0.005	19	1626	2445	6	Standard
|	**Al**	**27**	**0.603**	ug/L	0.013	2	3178	17124	1	Standard
|	**K**	**39**	**0.131**	ug/L	0.534	407	392918	439448	1	Standard
|	**Ca**	**44**	**-1.442**	ug/L	0.066	4	9544	8979	2	Standard
|	**Cr**	**52**	**0.069**	ug/L	0.029	42	12493	15103	2	Standard
|	**Cr**	**53**	**0.013**	ug/L	0.007	54	93	131	12	Standard
|	**Fe**	**54**	**-0.581**	ug/L	0.717	123	65504	71618	2	Standard
|	**Fe**	**57**	**3.564**	ug/L	0.846	23	16753	21988	2	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.001	25	320	415	5	Standard
⌈>	**Ge**	**72**		ug/L			33859	36394	2	KED
|	**Ni**	**60**	**0.020**	ug/L	0.034	166	15	49	109	KED
|	**Ni**	**62**	**0.034**	ug/L	0.032	92	2	11	72	KED
|	**Cu**	**63**	**0.029**	ug/L	0.046	156	59	196	107	KED
|	**Cu**	**65**	**0.020**	ug/L	0.038	192	33	81	107	KED
|	**Zn**	**66**	**0.023**	ug/L	0.030	131	40	55	32	KED
|	**Zn**	**67**	**0.085**	ug/L	0.034	39	5	13	20	KED
⌊	**As**	**75**	**0.030**	ug/L	0.035	116	1	10	97	KED
	Y	**89**		ug/L			276930	293146	0	Standard
	Kr	**83**		ug/L			38	45	19	Standard
⌈>	**In-1**	**115**		ug/L			7539	8289	0	KED
|	**Mo**	**98**	**0.005**	ug/L	0.005	103	4	11	59	KED
|	**Cd**	**111**	**0.003**	ug/L	0.004	150	2	3	34	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.003	204	2	1	107	KED
⌈>	**In**	**115**		ug/L			526809	554706	1	Standard
|	**Ba**	**135**	**0.002**	ug/L	0.000	18	35	49	3	Standard
⌊	**Ba**	**137**	**0.002**	ug/L	0.001	93	64	86	20	Standard
⌈>	**Tb**	**159**		ug/L			1145720	1225202	1	Standard
|	**Tl**	**205**	**0.004**	ug/L	0.001	15	52	328	11	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	14	280	368	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Wednesday, April 26, 2023 16:21:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28612	34253	2	Standard
	Cl	37		ug/L			4292670	4742571	2	Standard
>	Sc	45		ug/L			428118	487479	1	Standard
	Na	23	90.906	ug/L	2.289	2	12669	1773348	3	Standard
	Mg	24	18.860	ug/L	0.161	0	1626	484513	0	Standard
	Al	27	18.651	ug/L	0.251	1	3178	433183	1	Standard
	K	39	16.628	ug/L	0.852	5	392918	693639	1	Standard
	Ca	44	43.168	ug/L	0.466	1	9544	61475	1	Standard
	Cr	52	0.529	ug/L	0.021	3	12493	23630	1	Standard
	Cr	53	0.497	ug/L	0.025	5	93	1124	4	Standard
	Fe	54	33.007	ug/L	0.757	2	65504	151951	2	Standard
	Fe	57	35.562	ug/L	0.823	2	16753	53089	0	Standard
	Mn	55	0.450	ug/L	0.004	0	320	13579	1	Standard
>	Ge	72		ug/L			33859	36889	0	KED
	Ni	60	0.508	ug/L	0.023	4	15	822	4	KED
	Ni	62	0.559	ug/L	0.055	9	2	145	8	KED
	Cu	63	0.539	ug/L	0.032	6	59	2486	6	KED
	Cu	65	0.535	ug/L	0.007	1	33	1248	1	KED
	Zn	66	6.087	ug/L	0.056	0	40	3505	1	KED
	Zn	67	5.753	ug/L	0.433	7	5	544	7	KED
	As	75	0.233	ug/L	0.019	8	1	66	8	KED
	Y	89		ug/L			276930	294112	2	Standard
	Kr	83		ug/L			38	43	13	Standard
>	In-1	115		ug/L			7539	8394	1	KED
	Mo	98	0.203	ug/L	0.012	6	4	291	4	KED
	Cd	111	0.105	ug/L	0.028	26	2	33	26	KED
	Cd	114	0.110	ug/L	0.030	27	2	85	26	KED
>	In	115		ug/L			526809	555815	2	Standard
	Ba	135	0.471	ug/L	0.011	2	35	3206	1	Standard
	Ba	137	0.461	ug/L	0.015	3	64	5568	1	Standard
>	Tb	159		ug/L			1145720	1235969	0	Standard
	Tl	205	0.185	ug/L	0.000	0	52	13511	0	Standard
	Pb	208	0.101	ug/L	0.001	1	280	9555	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Wednesday, April 26, 2023 16:26:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28612	114141	1	Standard
	Cl	37		ug/L			4292670	10842742	3	Standard
>	Sc	45		ug/L			428118	470658	2	Standard
	Na	23	**20375.426**	ug/L	356.508	1	12669	380528099	0	Standard
	Mg	24	**19080.611**	ug/L	1081.517	5	1626	471354889	5	Standard
	Al	27	**20363.855**	ug/L	321.983	1	3178	452767593	0	Standard
	K	39	**20535.584**	ug/L	403.846	1	392918	294071441	2	Standard
	Ca	44	**19760.543**	ug/L	918.732	4	9544	22361879	2	Standard
	Cr	52	**0.809**	ug/L	0.033	4	12493	27602	1	Standard
	Cr	53	**3.108**	ug/L	0.088	2	93	6257	4	Standard
	Fe	54	**19293.415**	ug/L	524.541	2	65504	43713713	1	Standard
	Fe	57	**19899.553**	ug/L	264.086	1	16753	18394629	1	Standard
	Mn	55	**0.086**	ug/L	0.001	0	320	2776	1	Standard
>	Ge	72		ug/L			33859	34317	0	KED
	Ni	60	**0.102**	ug/L	0.007	7	15	166	6	KED
	Ni	62	**0.150**	ug/L	0.014	9	2	38	8	KED
	Cu	63	**0.035**	ug/L	0.003	8	59	205	5	KED
	Cu	65	**0.038**	ug/L	0.003	6	33	114	4	KED
	Zn	66	**0.276**	ug/L	0.040	14	40	186	11	KED
	Zn	67	**0.269**	ug/L	0.047	17	5	29	13	KED
	As	75	**0.035**	ug/L	0.007	18	1	10	15	KED
	Y	89		ug/L			276930	291842	1	Standard
	Kr	83		ug/L			38	89	26	Standard
>	In-1	115		ug/L			7539	7958	1	KED
	Mo	98	**395.364**	ug/L	8.013	2	4	528656	0	KED
	Cd	111	**0.086**	ug/L	0.024	28	2	26	26	KED
	Cd	114	**0.057**	ug/L	0.008	13	2	43	14	KED
>	In	115		ug/L			526809	527676	0	Standard
	Ba	135	**0.105**	ug/L	0.008	8	35	703	7	Standard
	Ba	137	**0.105**	ug/L	0.004	3	64	1252	3	Standard
>	Tb	159		ug/L			1145720	1207102	1	Standard
	Tl	205	**0.014**	ug/L	0.000	0	52	1033	1	Standard
	Pb	208	**0.027**	ug/L	0.000	0	280	2720	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Wednesday, April 26, 2023 16:31:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28612	118140	2	Standard
	Cl	37		ug/L			4292670	10737283	0	Standard
>	Sc	45		ug/L			428118	476611	2	Standard
	Na	23	20675.572	ug/L	225.168	1	12669	391109819	2	Standard
	Mg	24	19534.567	ug/L	579.562	2	1626	488600196	1	Standard
	Al	27	20377.186	ug/L	266.242	1	3178	458890875	2	Standard
	K	39	20570.266	ug/L	614.112	2	392918	298203266	1	Standard
	Ca	44	20536.859	ug/L	266.347	1	9544	23546240	1	Standard
	Cr	52	20.271	ug/L	0.584	2	12493	365939	0	Standard
	Cr	53	22.820	ug/L	0.204	0	93	45849	1	Standard
	Fe	54	19826.614	ug/L	386.233	1	65504	45489186	0	Standard
	Fe	57	19892.990	ug/L	603.260	3	16753	18619370	2	Standard
	Mn	55	17.787	ug/L	0.464	2	320	510676	1	Standard
>	Ge	72		ug/L			33859	35157	0	KED
	Ni	60	20.426	ug/L	0.157	0	15	30882	0	KED
	Ni	62	20.730	ug/L	0.699	3	2	5046	2	KED
	Cu	63	20.186	ug/L	0.250	1	59	86421	0	KED
	Cu	65	20.506	ug/L	0.447	2	33	44299	1	KED
	Zn	66	19.308	ug/L	0.158	0	40	10505	0	KED
	Zn	67	17.730	ug/L	0.283	1	5	1588	2	KED
	As	75	20.278	ug/L	0.152	0	1	5358	1	KED
	Y	89		ug/L			276930	294217	2	Standard
	Kr	83		ug/L			38	97	18	Standard
>	In-1	115		ug/L			7539	7772	2	KED
	Mo	98	412.775	ug/L	6.178	1	4	539071	0	KED
	Cd	111	19.629	ug/L	0.793	4	2	5257	2	KED
	Cd	114	19.600	ug/L	0.311	1	2	13554	1	KED
>	In	115		ug/L			526809	533614	1	Standard
	Ba	135	0.111	ug/L	0.002	2	35	751	2	Standard
	Ba	137	0.110	ug/L	0.003	2	64	1327	1	Standard
>	Tb	159		ug/L			1145720	1233409	1	Standard
	Tl	205	0.008	ug/L	0.000	5	52	613	5	Standard
	Pb	208	0.021	ug/L	0.001	3	280	2217	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Wednesday, April 26, 2023 16:36:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28612	35402	3	Standard
	Cl	37		ug/L			4292670	5369022	2	Standard
>	Sc	45		ug/L			428118	454772	5	Standard
	Na	23	21306.261	ug/L	1163.600	5	12669	383927176	2	Standard
	Mg	24	20591.834	ug/L	878.368	4	1626	491138050	3	Standard
	Al	27	21875.383	ug/L	764.510	3	3178	469579883	2	Standard
	K	39	21156.547	ug/L	1305.306	6	392918	292156473	0	Standard
	Ca	44	21423.586	ug/L	1063.584	4	9544	23412920	3	Standard
	Cr	52	242.463	ug/L	12.197	5	12493	4026581	2	Standard
	Cr	53	211.775	ug/L	10.220	4	93	404561	0	Standard
	Fe	54	20795.870	ug/L	814.265	3	65504	45477678	1	Standard
	Fe	57	21002.164	ug/L	1190.483	5	16753	18725707	1	Standard
	Mn	55	213.349	ug/L	14.100	6	320	5831315	3	Standard
>	Ge	72		ug/L			33859	36006	2	KED
	Ni	60	196.990	ug/L	4.524	2	15	304824	1	KED
	Ni	62	197.771	ug/L	4.755	2	2	49276	0	KED
	Cu	63	194.641	ug/L	5.761	2	59	852766	2	KED
	Cu	65	197.297	ug/L	6.943	3	33	436064	2	KED
	Zn	66	192.081	ug/L	5.102	2	40	106640	2	KED
	Zn	67	194.123	ug/L	3.214	1	5	17741	0	KED
	As	75	205.517	ug/L	4.210	2	1	55580	0	KED
	Y	89		ug/L			276930	276824	7	Standard
	Kr	83		ug/L			38	115	12	Standard
>	In-1	115		ug/L			7539	8256	2	KED
	Mo	98	205.769	ug/L	5.811	2	4	285362	0	KED
	Cd	111	193.145	ug/L	1.221	0	2	54948	1	KED
	Cd	114	193.259	ug/L	7.658	3	2	141880	2	KED
>	In	115		ug/L			526809	488498	6	Standard
	Ba	135	205.745	ug/L	13.560	6	35	1212755	0	Standard
	Ba	137	232.985	ug/L	14.471	6	64	2437097	1	Standard
>	Tb	159		ug/L			1145720	1134523	6	Standard
	Tl	205	213.100	ug/L	12.738	5	52	14220452	0	Standard
	Pb	208	218.173	ug/L	15.737	7	280	18207233	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Wednesday, April 26, 2023 16:41:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28612	37176	3	Standard
	Cl	37		ug/L			4292670	5509434	3	Standard
>	Sc	45		ug/L			428118	483865	3	Standard
	Na	23	29696.229	ug/L	1112.819	3	12669	569803405	0	Standard
	Mg	24	28580.158	ug/L	1010.023	3	1626	725452081	0	Standard
	Al	27	30877.790	ug/L	1157.902	3	3178	705327947	0	Standard
	K	39	30726.399	ug/L	813.227	2	392918	452110954	3	Standard
	Ca	44	29543.105	ug/L	1277.081	4	9544	34355411	1	Standard
	Cr	52	343.824	ug/L	4.257	1	12493	6077141	2	Standard
	Cr	53	301.961	ug/L	9.678	3	93	614256	0	Standard
	Fe	54	28253.279	ug/L	805.496	2	65504	65759981	1	Standard
	Fe	57	28753.184	ug/L	1227.604	4	16753	27295542	1	Standard
	Mn	55	304.728	ug/L	8.219	2	320	8873565	0	Standard
>	Ge	72		ug/L			33859	36123	1	KED
	Ni	60	289.258	ug/L	2.634	0	15	449123	0	KED
	Ni	62	291.425	ug/L	1.904	0	2	72866	0	KED
	Cu	63	283.579	ug/L	7.407	2	59	1246398	1	KED
	Cu	65	282.598	ug/L	5.002	1	33	626892	2	KED
	Zn	66	276.262	ug/L	3.343	1	40	153899	2	KED
	Zn	67	282.290	ug/L	4.763	1	5	25881	0	KED
	As	75	303.986	ug/L	7.054	2	1	82483	0	KED
	Y	89		ug/L			276930	279621	0	Standard
	Kr	83		ug/L			38	182	11	Standard
>	In-1	115		ug/L			7539	8196	0	KED
	Mo	98	311.596	ug/L	2.520	0	4	429196	1	KED
	Cd	111	287.421	ug/L	2.839	0	2	81181	0	KED
	Cd	114	285.010	ug/L	0.655	0	2	207841	0	KED
>	In	115		ug/L			526809	483000	0	Standard
	Ba	135	279.265	ug/L	7.387	2	35	1631964	2	Standard
	Ba	137	313.461	ug/L	5.096	1	64	3250219	1	Standard
>	Tb	159		ug/L			1145720	1105714	0	Standard
	Tl	205	307.981	ug/L	7.500	2	52	20078146	1	Standard
	Pb	208	310.626	ug/L	5.268	1	280	25339196	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 16:48:47

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28612	35897	2	Standard
	Cl	37		ug/L			4292670	5520922	2	Standard
>	Sc	45		ug/L			428118	497465	0	Standard
	Na	23	19996.712	ug/L	470.636	2	12669	394827423	2	Standard
	Mg	24	18786.258	ug/L	448.598	2	1626	490643477	2	Standard
	Al	27	19960.352	ug/L	189.342	0	3178	469193256	1	Standard
	K	39	20203.951	ug/L	624.569	3	392918	305834601	2	Standard
	Ca	44	19549.062	ug/L	505.533	2	9544	23397730	2	Standard
	Cr	52	229.470	ug/L	2.765	1	12493	4175904	1	Standard
	Cr	53	202.999	ug/L	2.335	1	93	424895	0	Standard
	Fe	54	18978.930	ug/L	690.011	3	65504	45464764	3	Standard
	Fe	57	19139.667	ug/L	121.623	0	16753	18704085	0	Standard
	Mn	55	202.918	ug/L	2.711	1	320	6078789	1	Standard
>	Ge	72		ug/L			33859	37767	0	KED
	Ni	60	194.893	ug/L	2.255	1	15	316395	1	KED
	Ni	62	198.473	ug/L	1.853	0	2	51885	0	KED
	Cu	63	191.685	ug/L	1.975	1	59	881040	0	KED
	Cu	65	194.260	ug/L	1.382	0	33	450518	0	KED
	Zn	66	192.741	ug/L	1.387	0	40	112257	0	KED
	Zn	67	193.127	ug/L	4.888	2	5	18516	2	KED
	As	75	206.267	ug/L	1.938	0	1	58526	0	KED
	Y	89		ug/L			276930	289656	1	Standard
	Kr	83		ug/L			38	101	7	Standard
>	In-1	115		ug/L			7539	8808	2	KED
	Mo	98	199.046	ug/L	5.173	2	4	294506	0	KED
	Cd	111	189.253	ug/L	2.880	1	2	57432	1	KED
	Cd	114	189.806	ug/L	3.381	1	2	148704	1	KED
>	In	115		ug/L			526809	503400	0	Standard
	Ba	135	187.618	ug/L	0.685	0	35	1142779	0	Standard
	Ba	137	220.219	ug/L	0.194	0	64	2379847	0	Standard
>	Tb	159		ug/L			1145720	1207704	2	Standard
	Tl	205	193.718	ug/L	7.982	4	52	13786866	1	Standard
	Pb	208	197.059	ug/L	5.371	2	280	17552618	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 16:55:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28612	36035	2	Standard
	Cl	**37**		ug/L			4292670	5247557	2	Standard
⌈>	**Sc**	**45**		ug/L			428118	523505	2	Standard
|	**Na**	**23**	**2.608**	ug/L	1.265	48	12669	70122	40	Standard
|	**Mg**	**24**	**1.031**	ug/L	1.400	135	1626	30980	128	Standard
|	**Al**	**27**	**1.561**	ug/L	1.361	87	3178	43083	81	Standard
|	**K**	**39**	**2.850**	ug/L	0.500	17	392918	525889	3	Standard
|	**Ca**	**44**	**1.407**	ug/L	0.949	67	9544	13464	11	Standard
|	**Cr**	**52**	**0.151**	ug/L	0.018	11	12493	18157	1	Standard
|	**Cr**	**53**	**0.117**	ug/L	0.010	8	93	372	7	Standard
|	**Fe**	**54**	**0.554**	ug/L	0.734	132	65504	81524	4	Standard
|	**Fe**	**57**	**1.894**	ug/L	0.995	52	16753	22441	6	Standard
⌊	**Mn**	**55**	**0.028**	ug/L	0.014	50	320	1271	37	Standard
⌈>	**Ge**	**72**		ug/L			33859	41091	0	KED
|	**Ni**	**60**	**0.011**	ug/L	0.001	8	15	39	5	KED
|	**Ni**	**62**	**0.023**	ug/L	0.011	50	2	9	34	KED
|	**Cu**	**63**	**0.008**	ug/L	0.002	19	59	111	6	KED
|	**Cu**	**65**	**0.006**	ug/L	0.007	111	33	55	30	KED
|	**Zn**	**66**	**0.118**	ug/L	0.030	25	40	123	14	KED
|	**Zn**	**67**	**0.147**	ug/L	0.060	41	5	22	27	KED
⌊	**As**	**75**	**0.014**	ug/L	0.002	15	1	6	11	KED
	Y	**89**		ug/L			276930	285583	1	Standard
	Kr	**83**		ug/L			38	45	27	Standard
⌈>	**In-1**	**115**		ug/L			7539	9299	2	KED
|	**Mo**	**98**	**0.034**	ug/L	0.011	31	4	58	25	KED
|	**Cd**	**111**	**0.006**	ug/L	0.008	128	2	4	52	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.002	24	2	8	13	KED
⌈>	**In**	**115**		ug/L			526809	535657	3	Standard
|	**Ba**	**135**	**0.028**	ug/L	0.017	60	35	217	49	Standard
⌊	**Ba**	**137**	**0.022**	ug/L	0.018	83	64	317	65	Standard
⌈>	**Tb**	**159**		ug/L			1145720	1278381	2	Standard
|	**Tl**	**205**	**0.024**	ug/L	0.015	64	52	1844	64	Standard
⌊	**Pb**	**208**	**0.017**	ug/L	0.015	91	280	1884	77	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 17:02:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28612	32785	4	Standard
	Cl	**37**		ug/L			4292670	5607666	2	Standard
⌈>	**Sc**	**45**		ug/L			428118	525948	1	Standard
|	**Na**	**23**	**4826.776**	ug/L	118.986	2	12669	100794989	3	Standard
|	**Mg**	**24**	**4792.975**	ug/L	69.738	1	1626	132371080	2	Standard
|	**Al**	**27**	**4844.175**	ug/L	66.902	1	3178	120380315	1	Standard
|	**K**	**39**	**4779.902**	ug/L	19.884	0	392918	76874769	1	Standard
|	**Ca**	**44**	**4760.965**	ug/L	81.105	1	9544	6034667	3	Standard
|	**Cr**	**52**	**51.290**	ug/L	0.237	0	12493	998738	1	Standard
|	**Cr**	**53**	**50.736**	ug/L	0.954	1	93	112345	1	Standard
|	**Fe**	**54**	**4722.739**	ug/L	34.560	0	65504	12021550	0	Standard
|	**Fe**	**57**	**4782.864**	ug/L	44.668	0	16753	4957033	1	Standard
⌊	**Mn**	**55**	**46.142**	ug/L	0.358	0	320	1461659	0	Standard
⌈>	**Ge**	**72**		ug/L			33859	41207	0	KED
|	**Ni**	**60**	**49.106**	ug/L	0.997	2	15	86999	2	KED
|	**Ni**	**62**	**49.282**	ug/L	0.348	0	2	14059	0	KED
|	**Cu**	**63**	**48.986**	ug/L	0.713	1	59	245726	1	KED
|	**Cu**	**65**	**49.338**	ug/L	0.492	0	33	124875	0	KED
|	**Zn**	**66**	**51.632**	ug/L	0.665	1	40	32847	1	KED
|	**Zn**	**67**	**52.075**	ug/L	1.142	2	5	5453	2	KED
⌊	**As**	**75**	**50.103**	ug/L	0.427	0	1	15512	0	KED
	Y	**89**		ug/L			276930	293625	0	Standard
	Kr	**83**		ug/L			38	50	38	Standard
⌈>	**In-1**	**115**		ug/L			7539	8956	3	KED
|	**Mo**	**98**	**50.016**	ug/L	1.861	3	4	75226	1	KED
|	**Cd**	**111**	**49.815**	ug/L	1.847	3	2	15365	0	KED
⌊	**Cd**	**114**	**49.831**	ug/L	1.469	2	2	39685	0	KED
⌈>	**In**	**115**		ug/L			526809	534593	1	Standard
|	**Ba**	**135**	**50.819**	ug/L	0.681	1	35	328693	1	Standard
⌊	**Ba**	**137**	**51.567**	ug/L	2.080	4	64	591569	2	Standard
⌈>	**Tb**	**159**		ug/L			1145720	1297683	2	Standard
|	**Tl**	**205**	**48.956**	ug/L	1.072	2	52	3744964	0	Standard
⌊	**Pb**	**208**	**48.129**	ug/L	0.957	1	280	4607186	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 17:10:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			28612	32761	4	Standard
Cl	37		ug/L			4292670	5186756	1	Standard
> Sc	45		ug/L			428118	515994	2	Standard
Na	23	1.017	ug/L	0.034	3	12669	36077	1	Standard
Mg	24	0.036	ug/L	0.003	7	1626	2941	1	Standard
Al	27	0.798	ug/L	0.018	2	3178	23285	2	Standard
K	39	1.010	ug/L	0.763	75	392918	489188	0	Standard
Ca	44	-1.560	ug/L	0.189	12	9544	9564	0	Standard
Cr	52	0.129	ug/L	0.024	18	12493	17471	1	Standard
Cr	53	0.080	ug/L	0.010	12	93	287	9	Standard
Fe	54	-0.808	ug/L	0.524	64	65504	76921	1	Standard
Fe	57	1.004	ug/L	0.114	11	16753	21208	2	Standard
Mn	55	0.003	ug/L	0.000	14	320	481	5	Standard
> Ge	72		ug/L			33859	42357	0	KED
Ni	60	0.001	ug/L	0.003	338	15	21	26	KED
Ni	62	0.006	ug/L	0.013	208	2	5	78	KED
Cu	63	0.004	ug/L	0.001	28	59	93	6	KED
Cu	65	0.004	ug/L	0.004	90	33	52	17	KED
Zn	66	0.010	ug/L	0.022	217	40	56	24	KED
Zn	67	0.052	ug/L	0.010	20	5	12	8	KED
As	75	0.007	ug/L	0.006	86	1	4	44	KED
Y	89		ug/L			276930	282846	3	Standard
Kr	83		ug/L			38	48	6	Standard
> In-1	115		ug/L			7539	9519	3	KED
Mo	98	0.010	ug/L	0.005	49	4	21	39	KED
Cd	111	0.016	ug/L	0.018	112	2	7	70	KED
Cd	114	0.006	ug/L	0.003	56	2	7	36	KED
> In	115		ug/L			526809	537812	1	Standard
Ba	135	0.002	ug/L	0.000	21	35	46	6	Standard
Ba	137	0.002	ug/L	0.001	73	64	86	18	Standard
> Tb	159		ug/L			1145720	1277512	3	Standard
Tl	205	0.007	ug/L	0.000	1	52	620	3	Standard
Pb	208	0.001	ug/L	0.000	19	280	409	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 17:18:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				32357	3	Standard
	Cl	**37**		ug/L				5128745	1	Standard
>	**Sc**	**45**		ug/L				522248	1	Standard
	Na	**23**		ug/L				20516	2	Standard
	Mg	**24**		ug/L				2102	3	Standard
	Al	**27**		ug/L				22771	2	Standard
	K	**39**		ug/L				474479	1	Standard
	Ca	**44**		ug/L				9054	3	Standard
	Cr	**52**		ug/L				17579	0	Standard
	Cr	**53**		ug/L				261	3	Standard
	Fe	**54**		ug/L				76103	1	Standard
	Fe	**57**		ug/L				22683	2	Standard
	Mn	**55**		ug/L				389	2	Standard
>	**Ge**	**72**		ug/L				41846	0	KED
	Ni	**60**		ug/L				20	32	KED
	Ni	**62**		ug/L				1	100	KED
	Cu	**63**		ug/L				50	4	KED
	Cu	**65**		ug/L				36	27	KED
	Zn	**66**		ug/L				31	27	KED
	Zn	**67**		ug/L				8	35	KED
	As	**75**		ug/L				4	15	KED
	Y	**89**		ug/L				289048	1	Standard
	Kr	**83**		ug/L				46	21	Standard
>	**In-1**	**115**		ug/L				9530	2	KED
	Mo	**98**		ug/L				12	48	KED
	Cd	**111**		ug/L				3	25	KED
	Cd	**114**		ug/L				5	34	KED
>	**In**	**115**		ug/L				542648	3	Standard
	Ba	**135**		ug/L				48	11	Standard
	Ba	**137**		ug/L				64	20	Standard
>	**Tb**	**159**		ug/L				1272467	0	Standard
	Tl	**205**		ug/L				377	9	Standard
	Pb	**208**		ug/L				316	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 17:23:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			32357	32210	2	Standard
	Cl	**37**		ug/L			5128745	5662532	1	Standard
⌈>	**Sc**	**45**		ug/L			522248	530240	0	Standard
|	**Na**	**23**	**4875.003**	ug/L	37.658	0	20516	102610617	0	Standard
|	**Mg**	**24**	**4925.610**	ug/L	120.514	2	2102	137129720	2	Standard
|	**Al**	**27**	**4924.999**	ug/L	35.956	0	22771	123417297	1	Standard
|	**K**	**39**	**4852.925**	ug/L	105.946	2	474479	78663856	1	Standard
|	**Ca**	**44**	**4872.443**	ug/L	103.833	2	9054	6221991	1	Standard
|	**Cr**	**52**	**50.609**	ug/L	0.726	1	17579	996172	2	Standard
|	**Cr**	**53**	**50.696**	ug/L	0.377	0	261	113344	1	Standard
|	**Fe**	**54**	**4840.703**	ug/L	95.387	1	76103	12416387	1	Standard
|	**Fe**	**57**	**4886.324**	ug/L	27.585	0	22683	5107547	1	Standard
⌊	**Mn**	**55**	**46.036**	ug/L	0.685	1	389	1470185	0	Standard
⌈>	**Ge**	**72**		ug/L			41846	41516	2	KED
|	**Ni**	**60**	**47.796**	ug/L	0.584	1	20	85299	1	KED
|	**Ni**	**62**	**49.517**	ug/L	1.100	2	1	14229	2	KED
|	**Cu**	**63**	**48.514**	ug/L	1.010	2	50	245077	0	KED
|	**Cu**	**65**	**48.638**	ug/L	1.428	2	36	123966	0	KED
|	**Zn**	**66**	**51.014**	ug/L	1.098	2	31	32667	0	KED
|	**Zn**	**67**	**51.454**	ug/L	0.735	1	8	5428	2	KED
⌊	**As**	**75**	**49.660**	ug/L	1.308	2	4	15488	1	KED
	Y	**89**		ug/L			289048	297930	1	Standard
	Kr	**83**		ug/L			46	52	26	Standard
⌈>	**In-1**	**115**		ug/L			9530	9258	2	KED
|	**Mo**	**98**	**49.043**	ug/L	1.436	2	12	76276	0	KED
|	**Cd**	**111**	**49.109**	ug/L	1.081	2	3	15666	0	KED
⌊	**Cd**	**114**	**48.147**	ug/L	1.363	2	5	39645	0	KED
⌈>	**In**	**115**		ug/L			542648	550745	2	Standard
|	**Ba**	**135**	**50.330**	ug/L	0.821	1	48	335352	0	Standard
⌊	**Ba**	**137**	**50.716**	ug/L	0.900	1	64	599527	0	Standard
⌈>	**Tb**	**159**		ug/L			1272467	1326631	1	Standard
|	**Tl**	**205**	**49.040**	ug/L	1.189	2	377	3835735	0	Standard
⌊	**Pb**	**208**	**47.900**	ug/L	0.645	1	316	4688324	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 17:29:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			32357	33747	1	Standard
	Cl	**37**		ug/L			5128745	5298612	1	Standard
⌈>	**Sc**	**45**		ug/L			522248	525119	2	Standard
|	**Na**	**23**	**-0.054**	ug/L	0.011	21	20516	19493	2	Standard
|	**Mg**	**24**	**0.012**	ug/L	0.004	35	2102	2436	2	Standard
|	**Al**	**27**	**-0.013**	ug/L	0.026	197	22771	22558	0	Standard
|	**K**	**39**	**0.758**	ug/L	0.382	50	474479	489087	1	Standard
|	**Ca**	**44**	**-0.169**	ug/L	0.190	112	9054	8889	2	Standard
|	**Cr**	**52**	**-0.004**	ug/L	0.018	514	17579	17602	1	Standard
|	**Cr**	**53**	**-0.022**	ug/L	0.006	27	261	214	4	Standard
|	**Fe**	**54**	**0.903**	ug/L	0.235	26	76103	78792	1	Standard
|	**Fe**	**57**	**-1.184**	ug/L	0.377	31	22683	21593	4	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.001	105	389	421	8	Standard
⌈>	**Ge**	**72**		ug/L			41846	41560	0	KED
|	**Ni**	**60**	**-0.000**	ug/L	0.003	1286	20	20	28	KED
|	**Ni**	**62**	**0.015**	ug/L	0.004	23	1	6	17	KED
|	**Cu**	**63**	**0.005**	ug/L	0.003	56	50	74	17	KED
|	**Cu**	**65**	**0.001**	ug/L	0.001	76	36	38	5	KED
|	**Zn**	**66**	**0.023**	ug/L	0.006	27	31	45	8	KED
|	**Zn**	**67**	**-0.024**	ug/L	0.018	77	8	5	33	KED
⌊	**As**	**75**	**0.001**	ug/L	0.003	282	4	4	20	KED
	Y	**89**		ug/L			289048	294314	1	Standard
	Kr	**83**		ug/L			46	37	28	Standard
⌈>	**In-1**	**115**		ug/L			9530	9143	2	KED
|	**Mo**	**98**	**0.008**	ug/L	0.006	71	12	23	37	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.011	1637	3	3	95	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.002	109	5	3	52	KED
⌈>	**In**	**115**		ug/L			542648	553637	3	Standard
|	**Ba**	**135**	**0.001**	ug/L	0.001	91	48	53	8	Standard
⌊	**Ba**	**137**	**0.002**	ug/L	0.001	24	64	92	5	Standard
⌈>	**Tb**	**159**		ug/L			1272467	1310282	0	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.000	16	377	507	4	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	837	316	328	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 17:34:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			32357	36405	3	Standard
	Cl	**37**		ug/L			5128745	5177051	2	Standard
⌈>	**Sc**	**45**		ug/L			522248	532291	3	Standard
|	**Na**	**23**	**88.715**	ug/L	1.520	1	20516	1894482	1	Standard
|	**Mg**	**24**	**18.229**	ug/L	0.118	0	2102	511507	2	Standard
|	**Al**	**27**	**18.528**	ug/L	0.603	3	22771	489031	2	Standard
|	**K**	**39**	**17.349**	ug/L	1.318	7	474479	763765	1	Standard
|	**Ca**	**44**	**44.352**	ug/L	1.528	3	9054	65963	0	Standard
|	**Cr**	**52**	**0.519**	ug/L	0.028	5	17579	27970	1	Standard
|	**Cr**	**53**	**0.491**	ug/L	0.025	5	261	1364	1	Standard
|	**Fe**	**54**	**32.648**	ug/L	1.871	5	76103	161023	1	Standard
|	**Fe**	**57**	**31.154**	ug/L	1.718	5	22683	55629	1	Standard
⌊	**Mn**	**55**	**0.467**	ug/L	0.008	1	389	15352	1	Standard
⌈>	**Ge**	**72**		ug/L			41846	41779	0	KED
|	**Ni**	**60**	**0.493**	ug/L	0.038	7	20	906	7	KED
|	**Ni**	**62**	**0.481**	ug/L	0.046	9	1	140	9	KED
|	**Cu**	**63**	**0.518**	ug/L	0.002	0	50	2684	0	KED
|	**Cu**	**65**	**0.513**	ug/L	0.022	4	36	1352	3	KED
|	**Zn**	**66**	**6.079**	ug/L	0.193	3	31	3946	3	KED
|	**Zn**	**67**	**5.899**	ug/L	0.140	2	8	633	2	KED
⌊	**As**	**75**	**0.213**	ug/L	0.007	3	4	71	3	KED
	Y	**89**		ug/L			289048	296111	2	Standard
	Kr	**83**		ug/L			46	40	11	Standard
⌈>	**In-1**	**115**		ug/L			9530	9192	2	KED
|	**Mo**	**98**	**0.196**	ug/L	0.008	3	12	314	4	KED
|	**Cd**	**111**	**0.087**	ug/L	0.034	38	3	31	34	KED
⌊	**Cd**	**114**	**0.084**	ug/L	0.019	22	5	74	20	KED
⌈>	**In**	**115**		ug/L			542648	548616	1	Standard
|	**Ba**	**135**	**0.507**	ug/L	0.019	3	48	3409	1	Standard
⌊	**Ba**	**137**	**0.510**	ug/L	0.006	1	64	6067	0	Standard
⌈>	**Tb**	**159**		ug/L			1272467	1310197	1	Standard
|	**Tl**	**205**	**0.175**	ug/L	0.002	1	377	13896	0	Standard
⌊	**Pb**	**208**	**0.093**	ug/L	0.001	1	316	9324	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 17:39:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			32357	124923	0	Standard
	Cl	**37**		ug/L			5128745	11565777	1	Standard
>	**Sc**	**45**		ug/L			522248	517508	1	Standard
	Na	**23**	**19800.663**	ug/L	62.869	0	20516	406729277	1	Standard
	Mg	**24**	**18661.324**	ug/L	28.818	0	2102	507052706	1	Standard
	Al	**27**	**19848.621**	ug/L	426.480	2	22771	485443290	3	Standard
	K	**39**	**19828.748**	ug/L	497.622	2	474479	312202814	1	Standard
	Ca	**44**	**19027.907**	ug/L	200.246	1	9054	23690077	1	Standard
	Cr	**52**	**0.691**	ug/L	0.008	1	17579	30459	1	Standard
	Cr	**53**	**3.473**	ug/L	0.061	1	261	7819	2	Standard
	Fe	**54**	**18925.598**	ug/L	348.453	1	76103	47167090	2	Standard
	Fe	**57**	**19110.727**	ug/L	316.123	1	22683	19431961	2	Standard
	Mn	**55**	**0.074**	ug/L	0.002	2	389	2689	0	Standard
>	**Ge**	**72**		ug/L			41846	38391	1	KED
	Ni	**60**	**0.097**	ug/L	0.006	6	20	179	5	KED
	Ni	**62**	**0.118**	ug/L	0.010	8	1	33	8	KED
	Cu	**63**	**0.037**	ug/L	0.007	17	50	220	12	KED
	Cu	**65**	**0.033**	ug/L	0.003	8	36	111	5	KED
	Zn	**66**	**0.281**	ug/L	0.018	6	31	194	5	KED
	Zn	**67**	**0.189**	ug/L	0.076	40	8	26	29	KED
	As	**75**	**0.028**	ug/L	0.004	14	4	12	8	KED
	Y	**89**		ug/L			289048	296835	5	Standard
	Kr	**83**		ug/L			46	108	13	Standard
>	**In-1**	**115**		ug/L			9530	8584	1	KED
	Mo	**98**	**395.984**	ug/L	6.774	1	12	571150	0	KED
	Cd	**111**	**0.068**	ug/L	0.011	16	3	23	16	KED
	Cd	**114**	**0.051**	ug/L	0.010	20	5	44	16	KED
>	**In**	**115**		ug/L			542648	532846	3	Standard
	Ba	**135**	**0.119**	ug/L	0.006	4	48	813	5	Standard
	Ba	**137**	**0.105**	ug/L	0.001	0	64	1261	2	Standard
>	**Tb**	**159**		ug/L			1272467	1273632	1	Standard
	Tl	**205**	**0.012**	ug/L	0.000	3	377	1250	3	Standard
	Pb	**208**	**0.024**	ug/L	0.000	0	316	2594	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 17:44:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			32357	124152	4	Standard
	Cl	**37**		ug/L			5128745	11415442	2	Standard
⌈>	**Sc**	**45**		ug/L			522248	511907	1	Standard
|	**Na**	**23**	**19705.366**	ug/L	757.065	3	20516	400341276	3	Standard
|	**Mg**	**24**	**19628.953**	ug/L	95.249	0	2102	527561032	1	Standard
|	**Al**	**27**	**19992.599**	ug/L	411.862	2	22771	483555612	1	Standard
|	**K**	**39**	**20591.768**	ug/L	379.611	1	474479	320758015	2	Standard
|	**Ca**	**44**	**20080.637**	ug/L	775.975	3	9054	24724049	2	Standard
|	**Cr**	**52**	**20.100**	ug/L	0.245	1	17579	392346	2	Standard
|	**Cr**	**53**	**22.853**	ug/L	0.235	1	261	49469	2	Standard
|	**Fe**	**54**	**19459.074**	ug/L	546.720	2	76103	47962495	2	Standard
|	**Fe**	**57**	**19590.351**	ug/L	377.666	1	22683	19700379	1	Standard
⌊	**Mn**	**55**	**18.159**	ug/L	0.272	1	389	560101	1	Standard
⌈>	**Ge**	**72**		ug/L			41846	37699	2	KED
|	**Ni**	**60**	**20.072**	ug/L	0.430	2	20	32532	1	KED
|	**Ni**	**62**	**20.891**	ug/L	0.694	3	1	5449	0	KED
|	**Cu**	**63**	**20.076**	ug/L	0.738	3	50	92089	1	KED
|	**Cu**	**65**	**19.978**	ug/L	0.813	4	36	46249	2	KED
|	**Zn**	**66**	**19.317**	ug/L	0.614	3	31	11248	1	KED
|	**Zn**	**67**	**17.787**	ug/L	0.743	4	8	1708	1	KED
⌊	**As**	**75**	**20.087**	ug/L	0.807	4	4	5689	1	KED
	Y	**89**		ug/L			289048	302525	1	Standard
	Kr	**83**		ug/L			46	107	11	Standard
⌈>	**In-1**	**115**		ug/L			9530	8550	1	KED
|	**Mo**	**98**	**395.275**	ug/L	6.016	1	12	567949	0	KED
|	**Cd**	**111**	**18.740**	ug/L	0.190	1	3	5525	1	KED
⌊	**Cd**	**114**	**18.710**	ug/L	0.260	1	5	14238	0	KED
⌈>	**In**	**115**		ug/L			542648	555051	3	Standard
|	**Ba**	**135**	**0.110**	ug/L	0.011	10	48	784	8	Standard
⌊	**Ba**	**137**	**0.112**	ug/L	0.009	8	64	1397	4	Standard
⌈>	**Tb**	**159**		ug/L			1272467	1287519	0	Standard
|	**Tl**	**205**	**0.005**	ug/L	0.001	13	377	755	6	Standard
⌊	**Pb**	**208**	**0.026**	ug/L	0.001	4	316	2795	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 17:49:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			32357	36645	0	Standard
	Cl	**37**		ug/L			5128745	5518758	3	Standard
⌈>	**Sc**	**45**		ug/L			522248	503066	2	Standard
|	**Na**	**23**	**19789.244**	ug/L	230.530	1	20516	395061164	1	Standard
|	**Mg**	**24**	**19243.079**	ug/L	532.871	2	2102	508038431	0	Standard
|	**Al**	**27**	**20246.328**	ug/L	919.046	4	22771	480981092	2	Standard
|	**K**	**39**	**20081.532**	ug/L	453.458	2	474479	307310999	0	Standard
|	**Ca**	**44**	**19874.235**	ug/L	495.719	2	9054	24045615	1	Standard
|	**Cr**	**52**	**228.985**	ug/L	6.289	2	17579	4214459	1	Standard
|	**Cr**	**53**	**201.946**	ug/L	1.478	0	261	427549	1	Standard
|	**Fe**	**54**	**19526.609**	ug/L	357.397	1	76103	47293458	2	Standard
|	**Fe**	**57**	**19681.953**	ug/L	607.971	3	22683	19444613	1	Standard
⌊	**Mn**	**55**	**203.911**	ug/L	2.234	1	389	6176706	1	Standard
⌈>	**Ge**	**72**		ug/L			41846	37752	2	KED
|	**Ni**	**60**	**196.604**	ug/L	2.592	1	20	319001	1	KED
|	**Ni**	**62**	**199.531**	ug/L	7.156	3	1	52118	1	KED
|	**Cu**	**63**	**191.996**	ug/L	2.343	1	50	881990	0	KED
|	**Cu**	**65**	**194.198**	ug/L	4.076	2	36	450075	0	KED
|	**Zn**	**66**	**193.114**	ug/L	4.741	2	31	112381	1	KED
|	**Zn**	**67**	**196.255**	ug/L	4.512	2	8	18805	0	KED
⌊	**As**	**75**	**205.139**	ug/L	5.961	2	4	58165	1	KED
	Y	**89**		ug/L			289048	282913	2	Standard
	Kr	**83**		ug/L			46	117	22	Standard
⌈>	**In-1**	**115**		ug/L			9530	8356	4	KED
|	**Mo**	**98**	**206.941**	ug/L	7.441	3	12	290322	1	KED
|	**Cd**	**111**	**196.485**	ug/L	7.392	3	3	56523	1	KED
⌊	**Cd**	**114**	**195.009**	ug/L	6.367	3	5	144867	2	KED
⌈>	**In**	**115**		ug/L			542648	517344	1	Standard
|	**Ba**	**135**	**193.879**	ug/L	5.870	3	48	1213349	1	Standard
⌊	**Ba**	**137**	**223.604**	ug/L	7.303	3	64	2482747	2	Standard
⌈>	**Tb**	**159**		ug/L			1272467	1216350	1	Standard
|	**Tl**	**205**	**200.429**	ug/L	3.760	1	377	14374042	1	Standard
⌊	**Pb**	**208**	**203.784**	ug/L	1.959	0	316	18286785	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 17:54:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			32357	36096	2	Standard
	Cl	37		ug/L			5128745	5473392	2	Standard
>	Sc	45		ug/L			522248	496455	2	Standard
	Na	23	29874.612	ug/L	767.258	2	20516	588423443	0	Standard
	Mg	24	27664.395	ug/L	786.098	2	2102	720801937	1	Standard
	Al	27	29980.850	ug/L	844.905	2	22771	702989133	0	Standard
	K	39	30777.026	ug/L	1292.584	4	474479	464397995	1	Standard
	Ca	44	29388.866	ug/L	705.130	2	9054	35083304	0	Standard
	Cr	52	340.735	ug/L	5.862	1	17579	6182289	2	Standard
	Cr	53	302.944	ug/L	2.814	0	261	632825	1	Standard
	Fe	54	28185.557	ug/L	983.588	3	76103	67306555	0	Standard
	Fe	57	28652.088	ug/L	1033.737	3	22683	27920159	1	Standard
	Mn	55	298.512	ug/L	3.218	1	389	8922989	1	Standard
>	Ge	72		ug/L			41846	36743	1	KED
	Ni	60	293.544	ug/L	2.302	0	20	463603	0	KED
	Ni	62	296.458	ug/L	7.119	2	1	75409	3	KED
	Cu	63	284.233	ug/L	1.563	0	50	1271039	1	KED
	Cu	65	287.202	ug/L	2.994	1	36	647956	0	KED
	Zn	66	280.598	ug/L	1.811	0	31	158970	1	KED
	Zn	67	283.024	ug/L	3.549	1	8	26397	0	KED
	As	75	307.491	ug/L	4.891	1	4	84876	0	KED
	Y	89		ug/L			289048	281533	1	Standard
	Kr	83		ug/L			46	160	7	Standard
>	In-1	115		ug/L			9530	8449	2	KED
	Mo	98	310.576	ug/L	7.842	2	12	440825	1	KED
	Cd	111	284.808	ug/L	6.719	2	3	82902	1	KED
	Cd	114	282.438	ug/L	9.405	3	5	212209	0	KED
>	In	115		ug/L			542648	489642	0	Standard
	Ba	135	279.988	ug/L	6.794	2	48	1658640	1	Standard
	Ba	137	316.866	ug/L	6.208	1	64	3330450	1	Standard
>	Tb	159		ug/L			1272467	1121389	0	Standard
	Tl	205	300.857	ug/L	8.771	2	377	19893010	2	Standard
	Pb	208	306.448	ug/L	3.127	1	316	25353802	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 18:01:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			32357	35677	1	Standard
	Cl	**37**		ug/L			5128745	5216755	1	Standard
⌈>	**Sc**	**45**		ug/L			522248	532956	1	Standard
|	**Na**	**23**	**1.239**	ug/L	0.069	5	20516	47132	1	Standard
|	**Mg**	**24**	**0.172**	ug/L	0.006	3	2102	6961	1	Standard
|	**Al**	**27**	**0.410**	ug/L	0.028	6	22771	33546	1	Standard
|	**K**	**39**	**2.668**	ug/L	0.519	19	474479	527327	0	Standard
|	**Ca**	**44**	**1.468**	ug/L	0.202	13	9054	11119	1	Standard
|	**Cr**	**52**	**0.015**	ug/L	0.023	151	17579	18232	1	Standard
|	**Cr**	**53**	**-0.002**	ug/L	0.011	596	261	262	9	Standard
|	**Fe**	**54**	**1.262**	ug/L	1.071	84	76103	80887	3	Standard
|	**Fe**	**57**	**-1.381**	ug/L	0.595	43	22683	21696	1	Standard
⌊	**Mn**	**55**	**0.020**	ug/L	0.000	0	389	1036	2	Standard
⌈>	**Ge**	**72**		ug/L			41846	42680	0	KED
|	**Ni**	**60**	**0.056**	ug/L	0.066	119	20	123	98	KED
|	**Ni**	**62**	**0.080**	ug/L	0.075	94	1	25	87	KED
|	**Cu**	**63**	**0.064**	ug/L	0.073	114	50	382	99	KED
|	**Cu**	**65**	**0.051**	ug/L	0.063	123	36	170	96	KED
|	**Zn**	**66**	**0.184**	ug/L	0.083	45	31	153	35	KED
|	**Zn**	**67**	**0.122**	ug/L	0.055	45	8	21	26	KED
⌊	**As**	**75**	**0.061**	ug/L	0.067	109	4	24	88	KED
	Y	**89**		ug/L			289048	302763	1	Standard
	Kr	**83**		ug/L			46	43	15	Standard
⌈>	**In-1**	**115**		ug/L			9530	9547	4	KED
|	**Mo**	**98**	**0.065**	ug/L	0.053	81	12	117	77	KED
|	**Cd**	**111**	**0.037**	ug/L	0.054	144	3	16	113	KED
⌊	**Cd**	**114**	**0.039**	ug/L	0.063	162	5	39	141	KED
⌈>	**In**	**115**		ug/L			542648	553179	1	Standard
|	**Ba**	**135**	**0.010**	ug/L	0.001	14	48	114	6	Standard
⌊	**Ba**	**137**	**0.014**	ug/L	0.001	7	64	233	5	Standard
⌈>	**Tb**	**159**		ug/L			1272467	1299894	1	Standard
|	**Tl**	**205**	**0.011**	ug/L	0.001	9	377	1197	6	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.001	9	316	1033	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 18:07:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			32357	33542	0	Standard
	Cl	**37**		ug/L			5128745	5635065	2	Standard
⌈>	**Sc**	**45**		ug/L			522248	546059	1	Standard
|	**Na**	**23**	**4784.719**	ug/L	89.869	1	20516	103704439	0	Standard
|	**Mg**	**24**	**4823.396**	ug/L	111.174	2	2102	138312981	3	Standard
|	**Al**	**27**	**4912.913**	ug/L	223.015	4	22771	126809989	5	Standard
|	**K**	**39**	**4801.205**	ug/L	148.529	3	474479	80144864	2	Standard
|	**Ca**	**44**	**4859.973**	ug/L	142.344	2	9054	6391606	3	Standard
|	**Cr**	**52**	**50.008**	ug/L	0.848	1	17579	1013716	0	Standard
|	**Cr**	**53**	**50.517**	ug/L	0.219	0	261	116315	1	Standard
|	**Fe**	**54**	**4779.406**	ug/L	117.671	2	76103	12626650	2	Standard
|	**Fe**	**57**	**4816.069**	ug/L	47.016	0	22683	5184841	1	Standard
⌊	**Mn**	**55**	**45.657**	ug/L	1.023	2	389	1501429	1	Standard
⌈>	**Ge**	**72**		ug/L			41846	41905	1	KED
|	**Ni**	**60**	**49.015**	ug/L	0.498	1	20	88303	1	KED
|	**Ni**	**62**	**49.748**	ug/L	0.452	0	1	14430	0	KED
|	**Cu**	**63**	**48.449**	ug/L	1.375	2	50	247090	2	KED
|	**Cu**	**65**	**48.848**	ug/L	1.327	2	36	125687	1	KED
|	**Zn**	**66**	**52.042**	ug/L	1.394	2	31	33640	1	KED
|	**Zn**	**67**	**51.574**	ug/L	2.271	4	8	5491	3	KED
⌊	**As**	**75**	**50.737**	ug/L	1.371	2	4	15973	1	KED
	Y	**89**		ug/L			289048	300573	2	Standard
	Kr	**83**		ug/L			46	53	17	Standard
⌈>	**In-1**	**115**		ug/L			9530	9168	2	KED
|	**Mo**	**98**	**50.154**	ug/L	0.962	1	12	77261	0	KED
|	**Cd**	**111**	**50.101**	ug/L	1.433	2	3	15825	0	KED
⌊	**Cd**	**114**	**49.126**	ug/L	0.180	0	5	40076	2	KED
⌈>	**In**	**115**		ug/L			542648	555336	0	Standard
|	**Ba**	**135**	**50.608**	ug/L	0.691	1	48	340079	0	Standard
⌊	**Ba**	**137**	**51.081**	ug/L	0.549	1	64	608999	0	Standard
⌈>	**Tb**	**159**		ug/L			1272467	1347066	0	Standard
|	**Tl**	**205**	**48.846**	ug/L	1.235	2	377	3880612	2	Standard
⌊	**Pb**	**208**	**47.144**	ug/L	0.408	0	316	4686055	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 18:14:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			32357	32344	3	Standard
	Cl	**37**		ug/L			5128745	5311175	1	Standard
⌈>	**Sc**	**45**		ug/L			522248	543702	3	Standard
|	**Na**	**23**	**0.388**	ug/L	0.044	11	20516	29707	0	Standard
|	**Mg**	**24**	**0.028**	ug/L	0.002	7	2102	2998	3	Standard
|	**Al**	**27**	**-0.752**	ug/L	0.004	0	22771	4387	2	Standard
|	**K**	**39**	**0.698**	ug/L	1.071	153	474479	505151	0	Standard
|	**Ca**	**44**	**-1.073**	ug/L	0.313	29	9054	8016	2	Standard
|	**Cr**	**52**	**-0.004**	ug/L	0.051	1404	17579	18209	2	Standard
|	**Cr**	**53**	**-0.023**	ug/L	0.010	44	261	219	9	Standard
|	**Fe**	**54**	**-0.198**	ug/L	1.507	760	76103	78648	3	Standard
|	**Fe**	**57**	**-1.910**	ug/L	0.891	46	22683	21559	1	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.001	66	389	459	4	Standard
⌈>	**Ge**	**72**		ug/L			41846	42077	1	KED
|	**Ni**	**60**	**-0.000**	ug/L	0.004	8341	20	20	31	KED
|	**Ni**	**62**	**0.004**	ug/L	0.007	173	1	3	69	KED
|	**Cu**	**63**	**0.002**	ug/L	0.001	70	50	60	11	KED
|	**Cu**	**65**	**0.001**	ug/L	0.001	62	36	38	2	KED
|	**Zn**	**66**	**0.017**	ug/L	0.019	109	31	42	28	KED
|	**Zn**	**67**	**-0.024**	ug/L	0.031	125	8	5	57	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.001	130	4	4	6	KED
	Y	**89**		ug/L			289048	292206	3	Standard
	Kr	**83**		ug/L			46	53	31	Standard
⌈>	**In-1**	**115**		ug/L			9530	9656	1	KED
|	**Mo**	**98**	**0.008**	ug/L	0.004	50	12	24	24	KED
|	**Cd**	**111**	**0.020**	ug/L	0.008	42	3	10	27	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.006	79	5	11	40	KED
⌈>	**In**	**115**		ug/L			542648	553571	1	Standard
|	**Ba**	**135**	**-0.001**	ug/L	0.002	137	48	41	25	Standard
⌊	**Ba**	**137**	**0.003**	ug/L	0.001	43	64	100	13	Standard
⌈>	**Tb**	**159**		ug/L			1272467	1316350	3	Standard
|	**Tl**	**205**	**0.004**	ug/L	0.000	1	377	694	4	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	87	316	364	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0180-BLK2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 18:24:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			32357	53587	1	Standard
	Cl	**37**		ug/L			5128745	5139362	2	Standard
⌈>	**Sc**	**45**		ug/L			522248	542092	0	Standard
|	**Na**	**23**	**3.069**	ug/L	0.076	2	20516	87313	1	Standard
|	**Mg**	**24**	**0.434**	ug/L	0.014	3	2102	14528	2	Standard
|	**Al**	**27**	**0.377**	ug/L	0.012	3	22771	33284	0	Standard
|	**K**	**39**	**1.395**	ug/L	0.404	28	474479	515474	0	Standard
|	**Ca**	**44**	**6.363**	ug/L	0.175	2	9054	17693	0	Standard
|	**Cr**	**52**	**0.107**	ug/L	0.008	7	17579	20358	0	Standard
|	**Cr**	**53**	**0.040**	ug/L	0.007	18	261	363	5	Standard
|	**Fe**	**54**	**1.559**	ug/L	0.702	45	76103	83054	1	Standard
|	**Fe**	**57**	**0.612**	ug/L	0.718	117	22683	24194	2	Standard
⌊	**Mn**	**55**	**0.073**	ug/L	0.002	2	389	2779	2	Standard
⌈>	**Ge**	**72**		ug/L			41846	43271	1	KED
|	**Ni**	**60**	**0.049**	ug/L	0.004	9	20	113	8	KED
|	**Ni**	**62**	**0.053**	ug/L	0.019	36	1	17	32	KED
|	**Cu**	**63**	**0.073**	ug/L	0.002	3	50	438	2	KED
|	**Cu**	**65**	**0.067**	ug/L	0.004	5	36	215	3	KED
|	**Zn**	**66**	**0.422**	ug/L	0.045	10	31	313	9	KED
|	**Zn**	**67**	**0.338**	ug/L	0.041	12	8	45	11	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.006	142	4	3	62	KED
	Y	**89**		ug/L			289048	299112	3	Standard
	Kr	**83**		ug/L			46	28	43	Standard
⌈>	**In-1**	**115**		ug/L			9530	9754	2	KED
|	**Mo**	**98**	**0.021**	ug/L	0.012	57	12	46	39	KED
|	**Cd**	**111**	**0.002**	ug/L	0.009	546	3	4	68	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.002	59	5	9	21	KED
⌈>	**In**	**115**		ug/L			542648	571320	2	Standard
|	**Ba**	**135**	**0.053**	ug/L	0.002	4	48	415	3	Standard
⌊	**Ba**	**137**	**0.062**	ug/L	0.003	5	64	824	2	Standard
⌈>	**Tb**	**159**		ug/L			1272467	1321343	0	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	28	377	507	5	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.000	8	316	850	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0180-BS2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 18:28:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			32357	51710	1	Standard
	Cl	37		ug/L			5128745	5748037	3	Standard
>	Sc	45		ug/L			522248	548584	1	Standard
	Na	23	5063.954	ug/L	39.577	0	20516	110283431	1	Standard
	Mg	24	5050.991	ug/L	186.610	3	2102	145452368	2	Standard
	Al	27	5141.063	ug/L	135.971	2	22771	133292263	3	Standard
	K	39	4976.162	ug/L	138.014	2	474479	83460830	3	Standard
	Ca	44	5117.749	ug/L	171.031	3	9054	6761176	3	Standard
	Cr	52	26.164	ug/L	0.139	0	17579	541687	1	Standard
	Cr	53	26.061	ug/L	0.628	2	261	60419	3	Standard
	Fe	54	4931.685	ug/L	100.542	2	76103	13088198	2	Standard
	Fe	57	4993.541	ug/L	154.740	3	22683	5399866	3	Standard
	Mn	55	23.723	ug/L	0.150	0	389	784047	0	Standard
>	Ge	72		ug/L			41846	41952	0	KED
	Ni	60	25.981	ug/L	0.523	2	20	46869	1	KED
	Ni	62	26.138	ug/L	0.533	2	1	7591	2	KED
	Cu	63	26.112	ug/L	0.074	0	50	133363	1	KED
	Cu	65	25.802	ug/L	0.019	0	36	66503	0	KED
	Zn	66	84.909	ug/L	1.403	1	31	54940	1	KED
	Zn	67	78.709	ug/L	2.237	2	8	8387	2	KED
	As	75	26.182	ug/L	0.202	0	4	8256	1	KED
	Y	89		ug/L			289048	300417	1	Standard
	Kr	83		ug/L			46	53	18	Standard
>	In-1	115		ug/L			9530	9497	2	KED
	Mo	98	0.011	ug/L	0.004	36	12	29	19	KED
	Cd	111	25.314	ug/L	0.590	2	3	8286	1	KED
	Cd	114	25.062	ug/L	0.279	1	5	21180	2	KED
>	In	115		ug/L			542648	558321	2	Standard
	Ba	135	25.764	ug/L	0.391	1	48	174061	0	Standard
	Ba	137	26.654	ug/L	0.406	1	64	319460	0	Standard
>	Tb	159		ug/L			1272467	1342540	1	Standard
	Tl	205	22.775	ug/L	0.558	2	377	1803028	1	Standard
	Pb	208	23.318	ug/L	0.457	1	316	2309661	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0292-BLK3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 18:33:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			32357	52843	2	Standard
	Cl	**37**		ug/L			5128745	5191547	1	Standard
⌈>	**Sc**	**45**		ug/L			522248	540107	2	Standard
|	**Na**	**23**	**3.664**	ug/L	1.841	50	20516	100063	40	Standard
|	**Mg**	**24**	**1.525**	ug/L	1.942	127	2102	45842	122	Standard
|	**Al**	**27**	**1.323**	ug/L	1.795	135	22771	57658	81	Standard
|	**K**	**39**	**2.035**	ug/L	1.376	67	474479	524237	5	Standard
|	**Ca**	**44**	**4.037**	ug/L	1.893	46	9054	14629	18	Standard
|	**Cr**	**52**	**0.247**	ug/L	0.002	0	17579	23041	2	Standard
|	**Cr**	**53**	**0.162**	ug/L	0.010	5	261	638	2	Standard
|	**Fe**	**54**	**3.831**	ug/L	1.460	38	76103	88674	5	Standard
|	**Fe**	**57**	**1.291**	ug/L	1.976	153	22683	24845	9	Standard
⌊	**Mn**	**55**	**0.032**	ug/L	0.013	41	389	1440	31	Standard
⌈>	**Ge**	**72**		ug/L			41846	43571	0	KED
|	**Ni**	**60**	**0.003**	ug/L	0.002	83	20	27	16	KED
|	**Ni**	**62**	**0.014**	ug/L	0.007	49	1	6	34	KED
|	**Cu**	**63**	**0.036**	ug/L	0.001	2	50	245	2	KED
|	**Cu**	**65**	**0.032**	ug/L	0.002	7	36	123	5	KED
|	**Zn**	**66**	**0.999**	ug/L	0.062	6	31	703	6	KED
|	**Zn**	**67**	**0.939**	ug/L	0.148	15	8	112	14	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.001	130	4	4	5	KED
	Y	**89**		ug/L			289048	295965	2	Standard
	Kr	**83**		ug/L			46	36	18	Standard
⌈>	**In-1**	**115**		ug/L			9530	9775	2	KED
|	**Mo**	**98**	**0.021**	ug/L	0.007	31	12	47	24	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.003	48	3	1	50	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.001	270	5	6	16	KED
⌈>	**In**	**115**		ug/L			542648	559290	2	Standard
|	**Ba**	**135**	**0.040**	ug/L	0.016	41	48	319	32	Standard
⌊	**Ba**	**137**	**0.044**	ug/L	0.019	42	64	589	36	Standard
⌈>	**Tb**	**159**		ug/L			1272467	1321312	2	Standard
|	**Tl**	**205**	**0.007**	ug/L	0.012	170	377	944	100	Standard
⌊	**Pb**	**208**	**0.010**	ug/L	0.012	124	316	1327	95	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0292-BS3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 18:38:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			32357	53055	1	Standard
	Cl	37		ug/L			5128745	5682214	2	Standard
>	Sc	45		ug/L			522248	528840	1	Standard
	Na	23	5325.818	ug/L	141.315	2	20516	111801385	2	Standard
	Mg	24	5372.592	ug/L	97.157	1	2102	149154738	1	Standard
	Al	27	5441.021	ug/L	132.023	2	22771	135961695	1	Standard
	K	39	5295.122	ug/L	133.856	2	474479	85560132	2	Standard
	Ca	44	5223.489	ug/L	230.650	4	9054	6652106	4	Standard
	Cr	52	27.619	ug/L	0.694	2	17579	550145	1	Standard
	Cr	53	27.126	ug/L	0.855	3	261	60593	2	Standard
	Fe	54	5286.119	ug/L	131.168	2	76103	13515677	2	Standard
	Fe	57	5215.082	ug/L	200.745	3	22683	5433467	2	Standard
	Mn	55	25.140	ug/L	0.311	1	389	800927	1	Standard
>	Ge	72		ug/L			41846	42998	1	KED
	Ni	60	25.850	ug/L	0.401	1	20	47793	0	KED
	Ni	62	25.824	ug/L	0.371	1	1	7687	1	KED
	Cu	63	26.055	ug/L	0.222	0	50	136382	0	KED
	Cu	65	25.899	ug/L	0.689	2	36	68405	1	KED
	Zn	66	84.006	ug/L	2.224	2	31	55704	1	KED
	Zn	67	80.552	ug/L	2.391	2	8	8798	2	KED
	As	75	26.713	ug/L	0.628	2	4	8632	1	KED
	Y	89		ug/L			289048	296604	2	Standard
	Kr	83		ug/L			46	55	16	Standard
>	In-1	115		ug/L			9530	9550	0	KED
	Mo	98	26.982	ug/L	0.407	1	12	43318	1	KED
	Cd	111	25.819	ug/L	0.310	1	3	8501	1	KED
	Cd	114	26.032	ug/L	0.469	1	5	22125	1	KED
>	In	115		ug/L			542648	538245	3	Standard
	Ba	135	27.344	ug/L	0.789	2	48	178005	1	Standard
	Ba	137	27.504	ug/L	0.899	3	64	317608	0	Standard
>	Tb	159		ug/L			1272467	1308874	2	Standard
	Tl	205	23.228	ug/L	0.688	2	377	1792668	2	Standard
	Pb	208	23.803	ug/L	0.713	2	316	2298176	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0435-02RE1
Sample Dil Factor: 100
Comments:
Sample Date/Time: Wednesday, April 26, 2023 18:44:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			32357	38598	4	Standard
	Cl	37		ug/L			5128745	7240767	2	Standard
>	Sc	45		ug/L			522248	563155	1	Standard
	Na	23	23193.845	ug/L	181.747	0	20516	518407321	1	Standard
	Mg	24	2610.813	ug/L	42.379	1	2102	77187939	1	Standard
	Al	27	-0.066	ug/L	0.027	41	22771	22794	1	Standard
	K	39	822.356	ug/L	5.629	0	474479	14583236	1	Standard
	Ca	44	1012.205	ug/L	19.030	1	9054	1380473	1	Standard
	Cr	52	0.252	ug/L	0.021	8	17579	24140	2	Standard
	Cr	53	1.577	ug/L	0.067	4	261	4018	5	Standard
	Fe	54	4.421	ug/L	0.916	20	76103	94045	3	Standard
	Fe	57	2.649	ug/L	0.596	22	22683	27388	2	Standard
	Mn	55	1.004	ug/L	0.015	1	389	34456	2	Standard
>	Ge	72		ug/L			41846	43113	0	KED
	Ni	60	0.040	ug/L	0.031	78	20	95	60	KED
	Ni	62	0.068	ug/L	0.063	92	1	22	84	KED
	Cu	63	0.104	ug/L	0.030	29	50	598	26	KED
	Cu	65	0.096	ug/L	0.029	30	36	291	26	KED
	Zn	66	2.875	ug/L	0.055	1	31	1942	1	KED
	Zn	67	2.824	ug/L	0.263	9	8	317	9	KED
	As	75	0.025	ug/L	0.027	107	4	12	67	KED
	Y	89		ug/L			289048	302785	2	Standard
	Kr	83		ug/L			46	51	24	Standard
>	In-1	115		ug/L			9530	9592	1	KED
	Mo	98	0.001	ug/L	0.003	335	12	13	30	KED
	Cd	111	-0.000	ug/L	0.008	6522	3	3	66	KED
	Cd	114	0.002	ug/L	0.003	198	5	6	37	KED
>	In	115		ug/L			542648	537645	0	Standard
	Ba	135	1.651	ug/L	0.015	0	48	10790	0	Standard
	Ba	137	1.662	ug/L	0.004	0	64	19241	0	Standard
>	Tb	159		ug/L			1272467	1340437	2	Standard
	Tl	205	-0.001	ug/L	0.000	37	377	351	3	Standard
	Pb	208	0.012	ug/L	0.000	3	316	1553	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0435-06RE1
Sample Dil Factor: 100
Comments:
Sample Date/Time: Wednesday, April 26, 2023 18:49:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			32357	38820	3	Standard
	Cl	37		ug/L			5128745	6486004	2	Standard
>	Sc	45		ug/L			522248	567642	1	Standard
	Na	23	14582.838	ug/L	385.197	2	20516	328517246	2	Standard
	Mg	24	1674.975	ug/L	38.273	2	2102	49912576	1	Standard
	Al	27	0.158	ug/L	0.016	10	22771	28983	1	Standard
	K	39	598.533	ug/L	5.721	0	474479	10839034	1	Standard
	Ca	44	552.353	ug/L	4.705	0	9054	763864	1	Standard
	Cr	52	0.224	ug/L	0.012	5	17579	23732	0	Standard
	Cr	53	1.233	ug/L	0.061	4	261	3226	3	Standard
	Fe	54	3.189	ug/L	0.562	17	76103	91409	0	Standard
	Fe	57	1.241	ug/L	0.654	52	22683	26032	1	Standard
	Mn	55	2.154	ug/L	0.032	1	389	74025	0	Standard
>	Ge	72		ug/L			41846	43713	1	KED
	Ni	60	0.015	ug/L	0.005	33	20	50	19	KED
	Ni	62	0.018	ug/L	0.027	147	1	7	108	KED
	Cu	63	0.062	ug/L	0.003	4	50	385	4	KED
	Cu	65	0.057	ug/L	0.011	19	36	191	13	KED
	Zn	66	2.258	ug/L	0.087	3	31	1554	4	KED
	Zn	67	2.254	ug/L	0.205	9	8	258	7	KED
	As	75	0.010	ug/L	0.004	39	4	8	17	KED
	Y	89		ug/L			289048	302180	1	Standard
	Kr	83		ug/L			46	52	11	Standard
>	In-1	115		ug/L			9530	9674	1	KED
	Mo	98	0.002	ug/L	0.004	193	12	16	45	KED
	Cd	111	0.001	ug/L	0.002	215	3	4	13	KED
	Cd	114	-0.000	ug/L	0.004	854	5	5	62	KED
>	In	115		ug/L			542648	551085	1	Standard
	Ba	135	0.389	ug/L	0.009	2	48	2640	1	Standard
	Ba	137	0.404	ug/L	0.002	0	64	4847	0	Standard
>	Tb	159		ug/L			1272467	1351236	1	Standard
	Tl	205	-0.001	ug/L	0.000	37	377	315	9	Standard
	Pb	208	0.008	ug/L	0.001	12	316	1095	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0435-07RE1
Sample Dil Factor: 100
Comments:
Sample Date/Time: Wednesday, April 26, 2023 18:54:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			32357	37686	0	Standard
	Cl	**37**		ug/L			5128745	7098354	2	Standard
⌈>	**Sc**	**45**		ug/L			522248	562425	2	Standard
|	**Na**	**23**	**19902.759**	ug/L	320.729	1	20516	444377569	3	Standard
|	**Mg**	**24**	**2408.704**	ug/L	16.087	0	2102	71124075	1	Standard
|	**Al**	**27**	**-0.453**	ug/L	0.008	1	22771	12479	3	Standard
|	**K**	**39**	**705.555**	ug/L	14.913	2	474479	12565971	1	Standard
|	**Ca**	**44**	**756.040**	ug/L	24.226	3	9054	1031893	1	Standard
|	**Cr**	**52**	**0.188**	ug/L	0.008	4	17579	22797	2	Standard
|	**Cr**	**53**	**2.031**	ug/L	0.031	1	261	5086	2	Standard
|	**Fe**	**54**	**140.734**	ug/L	2.619	1	76103	462418	1	Standard
|	**Fe**	**57**	**136.917**	ug/L	2.679	1	22683	175502	0	Standard
⌊	**Mn**	**55**	**1.401**	ug/L	0.019	1	389	47863	3	Standard
⌈>	**Ge**	**72**		ug/L			41846	42799	1	KED
|	**Ni**	**60**	**0.001**	ug/L	0.006	502	20	23	44	KED
|	**Ni**	**62**	**0.015**	ug/L	0.014	90	1	6	62	KED
|	**Cu**	**63**	**0.095**	ug/L	0.005	5	50	546	4	KED
|	**Cu**	**65**	**0.081**	ug/L	0.003	3	36	250	1	KED
|	**Zn**	**66**	**0.257**	ug/L	0.035	13	31	201	12	KED
|	**Zn**	**67**	**0.338**	ug/L	0.137	40	8	45	32	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.005	128	4	3	43	KED
	Y	**89**		ug/L			289048	302035	2	Standard
	Kr	**83**		ug/L			46	40	17	Standard
⌈>	**In-1**	**115**		ug/L			9530	9491	2	KED
|	**Mo**	**98**	**0.001**	ug/L	0.004	293	12	14	45	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.009	1012	3	3	78	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.002	107	5	7	25	KED
⌈>	**In**	**115**		ug/L			542648	526867	2	Standard
|	**Ba**	**135**	**0.421**	ug/L	0.007	1	48	2728	1	Standard
⌊	**Ba**	**137**	**0.428**	ug/L	0.011	2	64	4900	2	Standard
⌈>	**Tb**	**159**		ug/L			1272467	1313496	1	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	42	377	299	13	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	6	316	555	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0453-01RE1
Sample Dil Factor: 100
Comments:
Sample Date/Time: Wednesday, April 26, 2023 18:59:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			32357	40078	2	Standard
	Cl	**37**		ug/L			5128745	6977528	4	Standard
⌈>	**Sc**	**45**		ug/L			522248	582383	0	Standard
|	**Na**	**23**	**19631.943**	ug/L	584.848	2	20516	453739073	2	Standard
|	**Mg**	**24**	**2075.355**	ug/L	96.031	4	2102	63442992	3	Standard
|	**Al**	**27**	**-0.551**	ug/L	0.019	3	22771	10239	4	Standard
|	**K**	**39**	**683.565**	ug/L	23.460	3	474479	12623813	2	Standard
|	**Ca**	**44**	**670.351**	ug/L	21.150	3	9054	948812	2	Standard
|	**Cr**	**52**	**0.287**	ug/L	0.022	7	17579	25701	0	Standard
|	**Cr**	**53**	**1.989**	ug/L	0.055	2	261	5164	2	Standard
|	**Fe**	**54**	**31.018**	ug/L	2.997	9	76103	171672	4	Standard
|	**Fe**	**57**	**28.583**	ug/L	0.794	2	22683	57958	1	Standard
⌊	**Mn**	**55**	**1.718**	ug/L	0.065	3	389	60663	2	Standard
⌈>	**Ge**	**72**		ug/L			41846	44418	1	KED
|	**Ni**	**60**	**0.006**	ug/L	0.002	30	20	34	11	KED
|	**Ni**	**62**	**0.014**	ug/L	0.020	141	1	6	96	KED
|	**Cu**	**63**	**0.155**	ug/L	0.002	1	50	893	0	KED
|	**Cu**	**65**	**0.135**	ug/L	0.013	9	36	407	8	KED
|	**Zn**	**66**	**1.366**	ug/L	0.050	3	31	968	4	KED
|	**Zn**	**67**	**1.393**	ug/L	0.056	4	8	165	3	KED
⌊	**As**	**75**	**0.001**	ug/L	0.003	522	4	5	19	KED
	Y	**89**		ug/L			289048	299433	2	Standard
	Kr	**83**		ug/L			46	43	21	Standard
⌈>	**In-1**	**115**		ug/L			9530	9828	2	KED
|	**Mo**	**98**	**-0.003**	ug/L	0.003	105	12	7	73	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.006	177	3	2	66	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.005	133	5	2	201	KED
⌈>	**In**	**115**		ug/L			542648	547425	3	Standard
|	**Ba**	**135**	**0.600**	ug/L	0.049	8	48	4019	5	Standard
⌊	**Ba**	**137**	**0.613**	ug/L	0.016	2	64	7265	0	Standard
⌈>	**Tb**	**159**		ug/L			1272467	1361547	2	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	36	377	322	10	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	8	316	778	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0453-02RE1
Sample Dil Factor: 100
Comments:
Sample Date/Time: Wednesday, April 26, 2023 19:04:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			32357	39134	2	Standard
	Cl	**37**		ug/L			5128745	6342801	1	Standard
⌈>	**Sc**	**45**		ug/L			522248	564194	2	Standard
|	**Na**	**23**	**18444.170**	ug/L	389.828	2	20516	412872392	0	Standard
|	**Mg**	**24**	**1489.234**	ug/L	11.986	0	2102	44112853	2	Standard
|	**Al**	**27**	**-0.486**	ug/L	0.016	3	22771	11636	1	Standard
|	**K**	**39**	**643.398**	ug/L	4.386	0	474479	11541267	2	Standard
|	**Ca**	**44**	**523.053**	ug/L	6.018	1	9054	719438	2	Standard
|	**Cr**	**52**	**0.269**	ug/L	0.019	7	17579	24528	2	Standard
|	**Cr**	**53**	**1.281**	ug/L	0.018	1	261	3324	3	Standard
|	**Fe**	**54**	**23.320**	ug/L	0.571	2	76103	145448	2	Standard
|	**Fe**	**57**	**21.704**	ug/L	0.937	4	22683	48521	1	Standard
⌊	**Mn**	**55**	**0.407**	ug/L	0.013	3	389	14240	0	Standard
⌈>	**Ge**	**72**		ug/L			41846	43907	1	KED
|	**Ni**	**60**	**0.003**	ug/L	0.002	46	20	28	11	KED
|	**Ni**	**62**	**0.016**	ug/L	0.008	45	1	6	31	KED
|	**Cu**	**63**	**0.094**	ug/L	0.005	5	50	553	5	KED
|	**Cu**	**65**	**0.086**	ug/L	0.012	14	36	270	10	KED
|	**Zn**	**66**	**0.222**	ug/L	0.031	13	31	182	13	KED
|	**Zn**	**67**	**0.167**	ug/L	0.036	21	8	27	14	KED
⌊	**As**	**75**	**0.001**	ug/L	0.008	661	4	5	50	KED
	Y	**89**		ug/L			289048	302943	4	Standard
	Kr	**83**		ug/L			46	39	32	Standard
⌈>	**In-1**	**115**		ug/L			9530	9474	0	KED
|	**Mo**	**98**	**-0.002**	ug/L	0.001	57	12	9	18	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.002	93	3	3	17	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.003	434	5	5	43	KED
⌈>	**In**	**115**		ug/L			542648	544101	2	Standard
|	**Ba**	**135**	**0.251**	ug/L	0.006	2	48	1700	4	Standard
⌊	**Ba**	**137**	**0.252**	ug/L	0.012	4	64	3004	5	Standard
⌈>	**Tb**	**159**		ug/L			1272467	1347140	1	Standard
|	**Tl**	**205**	**-0.002**	ug/L	0.000	24	377	252	14	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	25	316	495	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 19:10:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			32357	35622	3	Standard
	Cl	**37**		ug/L			5128745	5278236	1	Standard
⌈>	**Sc**	**45**		ug/L			522248	553407	0	Standard
|	**Na**	**23**	**0.196**	ug/L	0.013	6	20516	26041	0	Standard
|	**Mg**	**24**	**0.026**	ug/L	0.001	5	2102	2969	1	Standard
|	**Al**	**27**	**-0.777**	ug/L	0.008	1	22771	3800	5	Standard
|	**K**	**39**	**0.602**	ug/L	0.525	87	474479	512881	1	Standard
|	**Ca**	**44**	**-1.329**	ug/L	0.104	7	9054	7825	1	Standard
|	**Cr**	**52**	**0.090**	ug/L	0.021	23	17579	20439	1	Standard
|	**Cr**	**53**	**-0.011**	ug/L	0.013	115	261	251	12	Standard
|	**Fe**	**54**	**0.725**	ug/L	0.640	88	76103	82564	1	Standard
|	**Fe**	**57**	**-0.456**	ug/L	0.266	58	22683	23540	0	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.000	25	389	460	2	Standard
⌈>	**Ge**	**72**		ug/L			41846	44508	0	KED
|	**Ni**	**60**	**0.006**	ug/L	0.007	110	20	34	38	KED
|	**Ni**	**62**	**0.022**	ug/L	0.009	41	1	8	32	KED
|	**Cu**	**63**	**0.004**	ug/L	0.001	32	50	73	9	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.006	322	36	33	45	KED
|	**Zn**	**66**	**0.044**	ug/L	0.019	43	31	63	20	KED
|	**Zn**	**67**	**0.007**	ug/L	0.017	252	8	9	20	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.003	88	4	3	25	KED
	Y	**89**		ug/L			289048	297696	2	Standard
	Kr	**83**		ug/L			46	41	13	Standard
⌈>	**In-1**	**115**		ug/L			9530	9664	1	KED
|	**Mo**	**98**	**-0.002**	ug/L	0.002	100	12	8	46	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.006	96	3	1	100	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.000	5	5	3	2	KED
⌈>	**In**	**115**		ug/L			542648	554403	2	Standard
|	**Ba**	**135**	**-0.002**	ug/L	0.002	78	48	36	26	Standard
⌊	**Ba**	**137**	**0.001**	ug/L	0.002	230	64	74	28	Standard
⌈>	**Tb**	**159**		ug/L			1272467	1325047	1	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	12	377	283	4	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	7	316	452	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 19:15:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			32357	33962	1	Standard
	Cl	**37**		ug/L			5128745	5775178	2	Standard
⌈>	**Sc**	**45**		ug/L			522248	551497	1	Standard
|	**Na**	**23**	**4959.968**	ug/L	149.420	3	20516	108593978	3	Standard
|	**Mg**	**24**	**4780.411**	ug/L	113.145	2	2102	138425512	2	Standard
|	**Al**	**27**	**5031.239**	ug/L	74.940	1	22771	131126853	1	Standard
|	**K**	**39**	**4811.984**	ug/L	149.595	3	474479	81131916	3	Standard
|	**Ca**	**44**	**4890.082**	ug/L	86.086	1	9054	6495490	2	Standard
|	**Cr**	**52**	**50.525**	ug/L	0.853	1	17579	1034251	1	Standard
|	**Cr**	**53**	**50.031**	ug/L	0.810	1	261	116331	1	Standard
|	**Fe**	**54**	**4702.031**	ug/L	99.977	2	76103	12547641	2	Standard
|	**Fe**	**57**	**4827.871**	ug/L	45.614	0	22683	5248945	1	Standard
⌊	**Mn**	**55**	**45.863**	ug/L	1.403	3	389	1523078	1	Standard
⌈>	**Ge**	**72**		ug/L			41846	43296	0	KED
|	**Ni**	**60**	**48.675**	ug/L	1.074	2	20	90603	1	KED
|	**Ni**	**62**	**48.581**	ug/L	1.251	2	1	14559	2	KED
|	**Cu**	**63**	**48.489**	ug/L	0.418	0	50	255549	1	KED
|	**Cu**	**65**	**48.942**	ug/L	0.566	1	36	130146	0	KED
|	**Zn**	**66**	**52.125**	ug/L	0.693	1	31	34822	1	KED
|	**Zn**	**67**	**51.714**	ug/L	1.157	2	8	5691	2	KED
⌊	**As**	**75**	**49.932**	ug/L	0.530	1	4	16245	0	KED
	Y	**89**		ug/L			289048	303002	1	Standard
	Kr	**83**		ug/L			46	46	17	Standard
⌈>	**In-1**	**115**		ug/L			9530	9362	2	KED
|	**Mo**	**98**	**48.848**	ug/L	0.557	1	12	76873	2	KED
|	**Cd**	**111**	**49.324**	ug/L	1.764	3	3	15921	4	KED
⌊	**Cd**	**114**	**48.921**	ug/L	1.372	2	5	40764	4	KED
⌈>	**In**	**115**		ug/L			542648	544129	0	Standard
|	**Ba**	**135**	**53.106**	ug/L	0.693	1	48	349652	0	Standard
⌊	**Ba**	**137**	**52.811**	ug/L	1.081	2	64	616878	1	Standard
⌈>	**Tb**	**159**		ug/L			1272467	1335023	0	Standard
|	**Tl**	**205**	**50.098**	ug/L	1.245	2	377	3944295	2	Standard
⌊	**Pb**	**208**	**48.275**	ug/L	0.447	0	316	4755534	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 19:23:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			32357	33342	4	Standard
	Cl	**37**		ug/L			5128745	5294801	2	Standard
⌈>	**Sc**	**45**		ug/L			522248	544100	1	Standard
|	**Na**	**23**	**0.229**	ug/L	0.322	140	20516	26344	27	Standard
|	**Mg**	**24**	**0.124**	ug/L	0.185	149	2102	5743	92	Standard
|	**Al**	**27**	**-0.649**	ug/L	0.208	31	22771	7063	76	Standard
|	**K**	**39**	**1.089**	ug/L	0.131	12	474479	512359	1	Standard
|	**Ca**	**44**	**-1.814**	ug/L	0.108	5	9054	7060	2	Standard
|	**Cr**	**52**	**0.009**	ug/L	0.028	323	17579	18484	3	Standard
|	**Cr**	**53**	**-0.049**	ug/L	0.001	2	261	161	2	Standard
|	**Fe**	**54**	**0.986**	ug/L	0.664	67	76103	81871	2	Standard
|	**Fe**	**57**	**-1.691**	ug/L	0.447	26	22683	21828	2	Standard
⌊	**Mn**	**55**	**0.000**	ug/L	0.002	1046	389	410	12	Standard
⌈>	**Ge**	**72**		ug/L			41846	42636	1	KED
|	**Ni**	**60**	**-0.005**	ug/L	0.003	50	20	12	39	KED
|	**Ni**	**62**	**-0.000**	ug/L	0.000	98	1	1		KED
|	**Cu**	**63**	**-0.000**	ug/L	0.002	646	50	50	17	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.002	149	36	33	14	KED
|	**Zn**	**66**	**0.016**	ug/L	0.002	13	31	41	4	KED
|	**Zn**	**67**	**-0.019**	ug/L	0.021	110	8	6	34	KED
⌊	**As**	**75**	**0.001**	ug/L	0.004	367	4	5	28	KED
	Y	**89**		ug/L			289048	296679	2	Standard
	Kr	**83**		ug/L			46	43	4	Standard
⌈>	**In-1**	**115**		ug/L			9530	9519	2	KED
|	**Mo**	**98**	**0.007**	ug/L	0.003	48	12	23	19	KED
|	**Cd**	**111**	**0.000**	ug/L	0.009	5607	3	3	75	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.005	323	5	4	93	KED
⌈>	**In**	**115**		ug/L			542648	565082	1	Standard
|	**Ba**	**135**	**0.001**	ug/L	0.002	287	48	53	20	Standard
⌊	**Ba**	**137**	**0.002**	ug/L	0.002	88	64	97	28	Standard
⌈>	**Tb**	**159**		ug/L			1272467	1313244	2	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.002	145	377	471	25	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	136	316	388	21	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0346-BLK3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 19:31:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			32357	51613	2	Standard
	Cl	37		ug/L			5128745	5198135	2	Standard
>	Sc	45		ug/L			522248	546842	2	Standard
	Na	23	1.033	ug/L	0.078	7	20516	43884	1	Standard
	Mg	24	0.344	ug/L	0.010	2	2102	12082	2	Standard
	Al	27	0.389	ug/L	0.026	6	22771	33872	0	Standard
	K	39	3.534	ug/L	0.840	23	474479	555345	0	Standard
	Ca	44	2.442	ug/L	0.448	18	9054	12684	3	Standard
	Cr	52	0.101	ug/L	0.041	40	17579	20414	1	Standard
	Cr	53	0.023	ug/L	0.003	13	261	326	4	Standard
	Fe	54	2.539	ug/L	1.352	53	76103	86316	2	Standard
	Fe	57	1.321	ug/L	0.345	26	22683	25166	1	Standard
	Mn	55	0.022	ug/L	0.001	6	389	1130	2	Standard
>	Ge	72		ug/L			41846	43399	0	KED
	Ni	60	-0.001	ug/L	0.004	507	20	20	35	KED
	Ni	62	0.017	ug/L	0.007	44	1	6	31	KED
	Cu	63	0.021	ug/L	0.001	6	50	164	4	KED
	Cu	65	0.021	ug/L	0.008	38	36	93	23	KED
	Zn	66	0.158	ug/L	0.009	5	31	137	3	KED
	Zn	67	0.124	ug/L	0.095	76	8	22	47	KED
	As	75	0.000	ug/L	0.003	675	4	4	20	KED
	Y	89		ug/L			289048	301231	1	Standard
	Kr	83		ug/L			46	28	40	Standard
>	In-1	115		ug/L			9530	9986	1	KED
	Mo	98	0.012	ug/L	0.005	41	12	32	24	KED
	Cd	111	0.000	ug/L	0.001	382	3	4	13	KED
	Cd	114	-0.001	ug/L	0.003	242	5	4	45	KED
>	In	115		ug/L			542648	560865	0	Standard
	Ba	135	0.026	ug/L	0.004	16	48	227	12	Standard
	Ba	137	0.032	ug/L	0.000	0	64	449	0	Standard
>	Tb	159		ug/L			1272467	1337533	1	Standard
	Tl	205	-0.001	ug/L	0.001	34	377	280	14	Standard
	Pb	208	0.007	ug/L	0.001	8	316	1042	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0346-BS3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 19:36:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			32357	52193	1	Standard
	Cl	37		ug/L			5128745	5791293	2	Standard
>	Sc	45		ug/L			522248	547714	1	Standard
	Na	23	5535.598	ug/L	102.761	1	20516	120374402	3	Standard
	Mg	24	5579.780	ug/L	181.483	3	2102	160496546	4	Standard
	Al	27	5681.439	ug/L	111.996	1	22771	147038688	1	Standard
	K	39	5525.067	ug/L	113.482	2	474479	92463886	3	Standard
	Ca	44	5426.361	ug/L	110.514	2	9054	7157846	2	Standard
	Cr	52	26.703	ug/L	0.328	1	17579	551538	0	Standard
	Cr	53	26.791	ug/L	0.223	0	261	61996	0	Standard
	Fe	54	5423.043	ug/L	120.254	2	76103	14361768	3	Standard
	Fe	57	5493.197	ug/L	39.747	0	22683	5928253	1	Standard
	Mn	55	24.404	ug/L	0.518	2	389	805388	3	Standard
>	Ge	72		ug/L			41846	41867	1	KED
	Ni	60	26.247	ug/L	0.224	0	20	47252	1	KED
	Ni	62	27.292	ug/L	0.821	3	1	7908	1	KED
	Cu	63	26.881	ug/L	0.513	1	50	136978	0	KED
	Cu	65	26.584	ug/L	0.884	3	36	68352	1	KED
	Zn	66	86.438	ug/L	1.935	2	31	55805	1	KED
	Zn	67	82.133	ug/L	1.997	2	8	8732	0	KED
	As	75	26.723	ug/L	0.695	2	4	8408	1	KED
	Y	89		ug/L			289048	311243	0	Standard
	Kr	83		ug/L			46	58	6	Standard
>	In-1	115		ug/L			9530	9668	0	KED
	Mo	98	25.413	ug/L	0.357	1	12	41306	2	KED
	Cd	111	25.099	ug/L	0.282	1	3	8366	1	KED
	Cd	114	25.029	ug/L	0.140	0	5	21537	1	KED
>	In	115		ug/L			542648	568840	1	Standard
	Ba	135	26.414	ug/L	0.484	1	48	181819	1	Standard
	Ba	137	26.720	ug/L	0.443	1	64	326288	0	Standard
>	Tb	159		ug/L			1272467	1334750	2	Standard
	Tl	205	23.809	ug/L	0.368	1	377	1873837	1	Standard
	Pb	208	24.269	ug/L	0.586	2	316	2389558	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0472-~~BLK2~~ BLK3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 19:40:59

MB 4/26/23

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			32357	51765	2	Standard
	Cl	37		ug/L			5128745	5252566	2	Standard
>	Sc	45		ug/L			522248	553177	1	Standard
	Na	23	3.026	ug/L	0.083	2	20516	88173	3	Standard
	Mg	24	0.821	ug/L	0.018	2	2102	26068	0	Standard
	Al	27	1.214	ug/L	0.075	6	22771	55835	2	Standard
	K	39	1.477	ug/L	0.365	24	474479	527393	1	Standard
	Ca	44	7.240	ug/L	0.304	4	9054	19219	0	Standard
	Cr	52	0.073	ug/L	0.024	33	17579	20089	1	Standard
	Cr	53	0.002	ug/L	0.011	541	261	281	7	Standard
	Fe	54	5.138	ug/L	0.808	15	76103	94273	2	Standard
	Fe	57	1.467	ug/L	0.387	26	22683	25616	1	Standard
	Mn	55	0.126	ug/L	0.007	5	389	4601	4	Standard
>	Ge	72		ug/L			41846	43356	1	KED
	Ni	60	0.024	ug/L	0.005	19	20	66	12	KED
	Ni	62	0.023	ug/L	0.010	42	1	8	32	KED
	Cu	63	0.045	ug/L	0.004	9	50	287	8	KED
	Cu	65	0.037	ug/L	0.011	29	36	135	20	KED
	Zn	66	0.549	ug/L	0.061	11	31	398	9	KED
	Zn	67	0.488	ug/L	0.060	12	8	62	9	KED
	As	75	0.000	ug/L	0.003	801	4	4	24	KED
	Y	89		ug/L			289048	307639	2	Standard
	Kr	83		ug/L			46	46	13	Standard
>	In-1	115		ug/L			9530	9756	1	KED
	Mo	98	0.040	ug/L	0.037	91	12	78	76	KED
	Cd	111	0.034	ug/L	0.033	99	3	15	73	KED
	Cd	114	0.032	ug/L	0.030	95	5	33	79	KED
>	In	115		ug/L			542648	571667	2	Standard
	Ba	135	0.088	ug/L	0.004	4	48	659	3	Standard
	Ba	137	0.086	ug/L	0.002	2	64	1125	1	Standard
>	Tb	159		ug/L			1272467	1340271	1	Standard
	Tl	205	-0.001	ug/L	0.000	42	377	325	8	Standard
	Pb	208	0.107	ug/L	0.001	0	316	10934	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0472-~~BS2~~ BS3

Sample Dil Factor:

Comments:

Sample Date/Time: Wednesday, April 26, 2023 19:45:52

MB 4/26/23

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			32357	51859	1	Standard
	Cl	37		ug/L			5128745	5727961	1	Standard
>	Sc	45		ug/L			522248	555412	1	Standard
	Na	23	5006.230	ug/L	89.229	1	20516	110366777	1	Standard
	Mg	24	4880.015	ug/L	246.364	5	2102	142334617	5	Standard
	Al	27	5052.125	ug/L	75.673	1	22771	132626624	2	Standard
	K	39	4959.031	ug/L	156.558	3	474479	84202055	3	Standard
	Ca	44	4991.680	ug/L	78.103	1	9054	6676814	1	Standard
	Cr	52	26.243	ug/L	0.106	0	17579	550021	1	Standard
	Cr	53	25.901	ug/L	0.310	1	261	60797	2	Standard
	Fe	54	4886.084	ug/L	106.182	2	76103	13128709	2	Standard
	Fe	57	4929.324	ug/L	65.976	1	22683	5396607	1	Standard
	Mn	55	23.491	ug/L	0.417	1	389	786010	1	Standard
>	Ge	72		ug/L			41846	42748	1	KED
	Ni	60	25.681	ug/L	0.468	1	20	47202	0	KED
	Ni	62	25.858	ug/L	0.616	2	1	7652	1	KED
	Cu	63	25.603	ug/L	0.155	0	50	133239	0	KED
	Cu	65	25.768	ug/L	0.102	0	36	67672	0	KED
	Zn	66	84.076	ug/L	0.975	1	31	55433	0	KED
	Zn	67	80.907	ug/L	2.304	2	8	8784	1	KED
	As	75	26.380	ug/L	0.365	1	4	8476	0	KED
	Y	89		ug/L			289048	296590	1	Standard
	Kr	83		ug/L			46	46	20	Standard
>	In-1	115		ug/L			9530	9228	5	KED
	Mo	98	27.425	ug/L	2.046	7	12	42418	1	KED
	Cd	111	26.345	ug/L	1.774	6	3	8359	1	KED
	Cd	114	26.445	ug/L	1.779	6	5	21661	1	KED
>	In	115		ug/L			542648	553789	5	Standard
	Ba	135	26.644	ug/L	1.924	7	48	178143	1	Standard
	Ba	137	27.295	ug/L	1.698	6	64	323877	0	Standard
>	Tb	159		ug/L			1272467	1380969	0	Standard
	Tl	205	22.221	ug/L	0.406	1	377	1809937	1	Standard
	Pb	208	22.981	ug/L	0.196	0	316	2341746	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0230-BLK2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 19:50:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			32357	59829	0	Standard
	Cl	37		ug/L			5128745	5233646	1	Standard
>	Sc	45		ug/L			522248	548022	3	Standard
	Na	23	1.134	ug/L	0.094	8	20516	46154	1	Standard
	Mg	24	0.467	ug/L	0.013	2	2102	15629	1	Standard
	Al	27	35.436	ug/L	1.680	4	22771	940635	2	Standard
	K	39	0.903	ug/L	0.865	95	474479	512639	1	Standard
	Ca	44	3.559	ug/L	0.405	11	9054	14181	1	Standard
	Cr	52	0.030	ug/L	0.032	109	17579	19026	0	Standard
	Cr	53	-0.047	ug/L	0.005	11	261	166	5	Standard
	Fe	54	0.653	ug/L	1.147	175	76103	81515	0	Standard
	Fe	57	-1.274	ug/L	0.373	29	22683	22424	1	Standard
	Mn	55	0.036	ug/L	0.001	1	389	1593	4	Standard
>	Ge	72		ug/L			41846	44133	1	KED
	Ni	60	0.014	ug/L	0.007	49	20	48	25	KED
	Ni	62	0.014	ug/L	0.007	50	1	6	34	KED
	Cu	63	0.024	ug/L	0.002	9	50	180	5	KED
	Cu	65	0.022	ug/L	0.004	18	36	97	10	KED
	Zn	66	0.310	ug/L	0.048	15	31	243	12	KED
	Zn	67	0.291	ug/L	0.115	39	8	41	30	KED
	As	75	-0.001	ug/L	0.003	414	4	4	23	KED
	Y	89		ug/L			289048	298282	1	Standard
	Kr	83		ug/L			46	39	14	Standard
>	In-1	115		ug/L			9530	9797	1	KED
	Mo	98	0.004	ug/L	0.004	79	12	19	29	KED
	Cd	111	-0.000	ug/L	0.003	809	3	3	25	KED
	Cd	114	0.000	ug/L	0.005	1209	5	6	78	KED
>	In	115		ug/L			542648	551677	1	Standard
	Ba	135	0.042	ug/L	0.001	1	48	326	0	Standard
	Ba	137	0.045	ug/L	0.005	10	64	601	8	Standard
>	Tb	159		ug/L			1272467	1343879	1	Standard
	Tl	205	-0.002	ug/L	0.000	20	377	273	8	Standard
	Pb	208	0.002	ug/L	0.000	8	316	551	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0230-BS2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 19:55:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			32357	59958	2	Standard
	Cl	37		ug/L			5128745	5802699	2	Standard
>	Sc	45		ug/L			522248	544052	2	Standard
	Na	23	5345.148	ug/L	226.985	4	20516	115372124	2	Standard
	Mg	24	5265.479	ug/L	249.285	4	2102	150307678	2	Standard
	Al	27	5360.283	ug/L	291.557	5	22771	137720011	3	Standard
	K	39	5251.424	ug/L	265.044	5	474479	87269834	4	Standard
	Ca	44	5311.687	ug/L	103.609	1	9054	6957373	0	Standard
	Cr	52	27.355	ug/L	0.740	2	17579	560614	0	Standard
	Cr	53	27.257	ug/L	0.278	1	261	62644	1	Standard
	Fe	54	5156.348	ug/L	194.526	3	76103	13561017	2	Standard
	Fe	57	5155.056	ug/L	224.569	4	22683	5523877	2	Standard
	Mn	55	24.556	ug/L	0.352	1	389	804751	1	Standard
>	Ge	72		ug/L			41846	42221	1	KED
	Ni	60	26.170	ug/L	0.327	1	20	47511	1	KED
	Ni	62	26.740	ug/L	0.475	1	1	7815	0	KED
	Cu	63	26.581	ug/L	0.544	2	50	136601	0	KED
	Cu	65	26.631	ug/L	0.285	1	36	69071	0	KED
	Zn	66	85.294	ug/L	2.297	2	31	55533	1	KED
	Zn	67	82.990	ug/L	1.730	2	8	8899	0	KED
	As	75	27.182	ug/L	0.531	1	4	8625	0	KED
	Y	89		ug/L			289048	302661	2	Standard
	Kr	83		ug/L			46	43	15	Standard
>	In-1	115		ug/L			9530	9308	2	KED
	Mo	98	0.013	ug/L	0.002	16	12	32	12	KED
	Cd	111	26.449	ug/L	0.694	2	3	8484	0	KED
	Cd	114	26.137	ug/L	0.566	2	5	21645	0	KED
>	In	115		ug/L			542648	552827	1	Standard
	Ba	135	27.421	ug/L	0.046	0	48	183458	1	Standard
	Ba	137	27.938	ug/L	0.369	1	64	331574	0	Standard
>	Tb	159		ug/L			1272467	1364327	1	Standard
	Tl	205	23.111	ug/L	0.565	2	377	1859128	0	Standard
	Pb	208	23.741	ug/L	0.253	1	316	2389919	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0666-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 20:00:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			32357	71663	4	Standard
	Cl	37		ug/L			5128745	5499675	3	Standard
>	Sc	45		ug/L			522248	558649	0	Standard
	Na	23	5771.111	ug/L	103.284	1	20516	127971038	1	Standard
	Mg	24	1247.001	ug/L	37.604	3	2102	36579006	3	Standard
	Al	27	58.882	ug/L	1.208	2	22771	1578495	1	Standard
	K	39	2509.829	ug/L	54.470	2	474479	43109711	1	Standard
	Ca	44	3152.813	ug/L	149.375	4	9054	4245468	4	Standard
	Cr	52	0.332	ug/L	0.011	3	17579	25571	1	Standard
	Cr	53	0.484	ug/L	0.015	3	261	1418	3	Standard
	Fe	54	63.691	ug/L	1.634	2	76103	252470	1	Standard
	Fe	57	58.127	ug/L	2.412	4	22683	87986	2	Standard
	Mn	55	307.076	ug/L	2.841	0	389	10330685	1	Standard
>	Ge	72		ug/L			41846	43062	1	KED
	Ni	60	1.600	ug/L	0.098	6	20	2984	7	KED
	Ni	62	1.705	ug/L	0.130	7	1	509	6	KED
	Cu	63	5.676	ug/L	0.071	1	50	29796	0	KED
	Cu	65	5.601	ug/L	0.177	3	36	14847	3	KED
	Zn	66	12.112	ug/L	0.174	1	31	8073	2	KED
	Zn	67	11.228	ug/L	0.557	4	8	1235	5	KED
	As	75	0.691	ug/L	0.024	3	4	228	2	KED
	Y	89		ug/L			289048	309268	1	Standard
	Kr	83		ug/L			46	59	17	Standard
>	In-1	115		ug/L			9530	9475	3	KED
	Mo	98	0.691	ug/L	0.030	4	12	1111	2	KED
	Cd	111	0.017	ug/L	0.012	70	3	9	45	KED
	Cd	114	0.008	ug/L	0.003	39	5	12	23	KED
>	In	115		ug/L			542648	574255	3	Standard
	Ba	135	8.196	ug/L	0.117	1	48	56980	2	Standard
	Ba	137	8.422	ug/L	0.269	3	64	103823	0	Standard
>	Tb	159		ug/L			1272467	1361201	1	Standard
	Tl	205	0.000	ug/L	0.000	17	377	441	0	Standard
	Pb	208	0.222	ug/L	0.001	0	316	22667	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0230-DUP2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 20:06:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			32357	69034	3	Standard
	Cl	37		ug/L			5128745	5422024	3	Standard
>	Sc	45		ug/L			522248	562665	0	Standard
	Na	23	5817.828	ug/L	87.843	1	20516	129943364	1	Standard
	Mg	24	1229.048	ug/L	55.638	4	2102	36305428	4	Standard
	Al	27	54.857	ug/L	0.085	0	22771	1482991	0	Standard
	K	39	2423.882	ug/L	28.065	1	474479	41949601	0	Standard
	Ca	44	3180.068	ug/L	29.135	0	9054	4313036	1	Standard
	Cr	52	0.344	ug/L	0.014	4	17579	26003	1	Standard
	Cr	53	0.479	ug/L	0.006	1	261	1416	1	Standard
	Fe	54	62.802	ug/L	1.031	1	76103	251867	0	Standard
	Fe	57	54.343	ug/L	0.706	1	22683	84440	0	Standard
	Mn	55	308.331	ug/L	6.835	2	389	10446154	1	Standard
>	Ge	72		ug/L			41846	43353	0	KED
	Ni	60	1.636	ug/L	0.009	0	20	3070	0	KED
	Ni	62	1.578	ug/L	0.090	5	1	475	5	KED
	Cu	63	5.538	ug/L	0.158	2	50	29267	2	KED
	Cu	65	5.620	ug/L	0.168	2	36	14997	2	KED
	Zn	66	11.647	ug/L	0.630	5	31	7815	5	KED
	Zn	67	11.418	ug/L	0.269	2	8	1264	2	KED
	As	75	0.656	ug/L	0.037	5	4	218	5	KED
	Y	89		ug/L			289048	310241	1	Standard
	Kr	83		ug/L			46	67	6	Standard
>	In-1	115		ug/L			9530	9835	1	KED
	Mo	98	0.685	ug/L	0.009	1	12	1145	1	KED
	Cd	111	0.021	ug/L	0.005	21	3	11	13	KED
	Cd	114	0.013	ug/L	0.006	44	5	17	30	KED
>	In	115		ug/L			542648	571019	3	Standard
	Ba	135	8.307	ug/L	0.279	3	48	57400	1	Standard
	Ba	137	8.346	ug/L	0.337	4	64	102279	0	Standard
>	Tb	159		ug/L			1272467	1380120	0	Standard
	Tl	205	0.000	ug/L	0.000	260	377	417	5	Standard
	Pb	208	0.217	ug/L	0.001	0	316	22437	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0230-MS2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 20:12:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			32357	57730	2	Standard
	Cl	37		ug/L			5128745	5784147	2	Standard
>	Sc	45		ug/L			522248	559019	2	Standard
	Na	23	10606.795	ug/L	111.473	1	20516	235327931	2	Standard
	Mg	24	6139.106	ug/L	117.755	1	2102	180131180	1	Standard
	Al	27	5092.979	ug/L	91.709	1	22771	134521343	2	Standard
	K	39	7469.519	ug/L	64.493	0	474479	127382234	2	Standard
	Ca	44	7986.458	ug/L	99.047	1	9054	10744308	1	Standard
	Cr	52	25.653	ug/L	0.545	2	17579	541473	2	Standard
	Cr	53	26.358	ug/L	0.703	2	261	62234	1	Standard
	Fe	54	4903.382	ug/L	63.873	1	76103	13256693	1	Standard
	Fe	57	4975.828	ug/L	39.515	0	22683	5482124	2	Standard
	Mn	55	327.583	ug/L	2.441	0	389	11026165	2	Standard
>	Ge	72		ug/L			41846	41803	2	KED
	Ni	60	27.447	ug/L	0.518	1	20	49330	1	KED
	Ni	62	28.038	ug/L	0.502	1	1	8113	1	KED
	Cu	63	31.209	ug/L	0.503	1	50	158786	0	KED
	Cu	65	30.517	ug/L	0.685	2	36	78345	0	KED
	Zn	66	93.211	ug/L	1.096	1	31	60092	1	KED
	Zn	67	87.675	ug/L	3.109	3	8	9305	1	KED
	As	75	26.840	ug/L	0.240	0	4	8433	1	KED
	Y	89		ug/L			289048	314192	1	Standard
	Kr	83		ug/L			46	84	1	Standard
>	In-1	115		ug/L			9530	9144	3	KED
	Mo	98	0.724	ug/L	0.016	2	12	1124	3	KED
	Cd	111	25.867	ug/L	1.060	4	3	8147	0	KED
	Cd	114	26.102	ug/L	0.641	2	5	21231	1	KED
>	In	115		ug/L			542648	562717	1	Standard
	Ba	135	35.234	ug/L	0.691	1	48	239893	0	Standard
	Ba	137	34.902	ug/L	0.556	1	64	421728	2	Standard
>	Tb	159		ug/L			1272467	1378312	1	Standard
	Tl	205	22.356	ug/L	0.217	0	377	1817421	1	Standard
	Pb	208	22.955	ug/L	0.092	0	316	2334817	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 20:17:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			32357	34276	3	Standard
	Cl	**37**		ug/L			5128745	5189519	2	Standard
⌈>	**Sc**	**45**		ug/L			522248	535236	0	Standard
|	**Na**	**23**	**0.069**	ug/L	0.020	28	20516	22505	2	Standard
|	**Mg**	**24**	**0.041**	ug/L	0.003	6	2102	3316	2	Standard
|	**Al**	**27**	**-0.763**	ug/L	0.007	0	22771	4046	4	Standard
|	**K**	**39**	**0.977**	ug/L	0.589	60	474479	502139	1	Standard
|	**Ca**	**44**	**-2.176**	ug/L	0.137	6	9054	6478	2	Standard
|	**Cr**	**52**	**0.050**	ug/L	0.018	34	17579	18996	2	Standard
|	**Cr**	**53**	**-0.060**	ug/L	0.003	4	261	133	3	Standard
|	**Fe**	**54**	**1.951**	ug/L	0.616	31	76103	83012	1	Standard
|	**Fe**	**57**	**-3.254**	ug/L	1.020	31	22683	19825	4	Standard
⌊	**Mn**	**55**	**0.004**	ug/L	0.001	18	389	540	3	Standard
⌈>	**Ge**	**72**		ug/L			41846	42907	1	KED
|	**Ni**	**60**	**0.006**	ug/L	0.003	43	20	32	15	KED
|	**Ni**	**62**	**0.019**	ug/L	0.011	58	1	7	43	KED
|	**Cu**	**63**	**0.003**	ug/L	0.004	142	50	66	29	KED
|	**Cu**	**65**	**0.000**	ug/L	0.002	542	36	38	13	KED
|	**Zn**	**66**	**0.052**	ug/L	0.019	35	31	66	20	KED
|	**Zn**	**67**	**0.016**	ug/L	0.046	285	8	10	47	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.006	178	4	3	49	KED
	Y	**89**		ug/L			289048	299372	0	Standard
	Kr	**83**		ug/L			46	43	18	Standard
⌈>	**In-1**	**115**		ug/L			9530	9711	1	KED
|	**Mo**	**98**	**-0.005**	ug/L	0.003	50	12	4	104	KED
|	**Cd**	**111**	**0.004**	ug/L	0.006	167	3	5	39	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.004	1818	5	5	61	KED
⌈>	**In**	**115**		ug/L			542648	550223	2	Standard
|	**Ba**	**135**	**-0.000**	ug/L	0.001	286	48	45	22	Standard
⌊	**Ba**	**137**	**0.001**	ug/L	0.001	66	64	82	11	Standard
⌈>	**Tb**	**159**		ug/L			1272467	1329387	0	Standard
|	**Tl**	**205**	**-0.002**	ug/L	0.000	3	377	255	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	18	316	438	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 20:21:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			32357	34151	2	Standard
	Cl	**37**		ug/L			5128745	5814119	2	Standard
⌈>	**Sc**	**45**		ug/L			522248	542474	2	Standard
|	**Na**	**23**	**4913.469**	ug/L	101.966	2	20516	105782061	0	Standard
|	**Mg**	**24**	**4960.316**	ug/L	55.477	1	2102	141273771	2	Standard
|	**Al**	**27**	**5066.284**	ug/L	183.107	3	22771	129853291	3	Standard
|	**K**	**39**	**4912.356**	ug/L	112.556	2	474479	81446688	1	Standard
|	**Ca**	**44**	**4881.090**	ug/L	87.717	1	9054	6377523	2	Standard
|	**Cr**	**52**	**50.433**	ug/L	1.195	2	17579	1015343	1	Standard
|	**Cr**	**53**	**50.387**	ug/L	1.056	2	261	115236	2	Standard
|	**Fe**	**54**	**4732.646**	ug/L	69.724	1	76103	12419768	0	Standard
|	**Fe**	**57**	**4907.539**	ug/L	67.373	1	22683	5246964	0	Standard
⌊	**Mn**	**55**	**45.748**	ug/L	0.353	0	389	1494693	1	Standard
⌈>	**Ge**	**72**		ug/L			41846	42222	3	KED
|	**Ni**	**60**	**49.321**	ug/L	1.479	2	20	89480	1	KED
|	**Ni**	**62**	**49.921**	ug/L	0.526	1	1	14588	2	KED
|	**Cu**	**63**	**49.467**	ug/L	1.550	3	50	254058	0	KED
|	**Cu**	**65**	**49.661**	ug/L	1.826	3	36	128683	0	KED
|	**Zn**	**66**	**52.459**	ug/L	1.695	3	31	34154	1	KED
|	**Zn**	**67**	**50.961**	ug/L	1.706	3	8	5465	0	KED
⌊	**As**	**75**	**50.861**	ug/L	1.775	3	4	16126	0	KED
	Y	**89**		ug/L			289048	302912	3	Standard
	Kr	**83**		ug/L			46	52	27	Standard
⌈>	**In-1**	**115**		ug/L			9530	9312	2	KED
|	**Mo**	**98**	**49.780**	ug/L	1.148	2	12	77889	0	KED
|	**Cd**	**111**	**50.576**	ug/L	0.941	1	3	16231	1	KED
⌊	**Cd**	**114**	**49.340**	ug/L	1.082	2	5	40875	1	KED
⌈>	**In**	**115**		ug/L			542648	554391	0	Standard
|	**Ba**	**135**	**51.498**	ug/L	0.393	0	48	345481	1	Standard
⌊	**Ba**	**137**	**52.414**	ug/L	0.803	1	64	623814	1	Standard
⌈>	**Tb**	**159**		ug/L			1272467	1358108	1	Standard
|	**Tl**	**205**	**49.003**	ug/L	1.101	2	377	3925386	3	Standard
⌊	**Pb**	**208**	**47.741**	ug/L	1.279	2	316	4783710	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 20:29:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			32357	33402	4	Standard
	Cl	**37**		ug/L			5128745	5327917	1	Standard
⌈>	**Sc**	**45**		ug/L			522248	542725	1	Standard
|	**Na**	**23**	**-0.130**	ug/L	0.016	12	20516	18508	0	Standard
|	**Mg**	**24**	**0.023**	ug/L	0.006	27	2102	2827	5	Standard
|	**Al**	**27**	**-0.754**	ug/L	0.005	0	22771	4323	3	Standard
|	**K**	**39**	**0.761**	ug/L	0.500	65	474479	505580	1	Standard
|	**Ca**	**44**	**-2.398**	ug/L	0.125	5	9054	6280	3	Standard
|	**Cr**	**52**	**-0.012**	ug/L	0.032	270	17579	18026	2	Standard
|	**Cr**	**53**	**-0.067**	ug/L	0.004	6	261	119	9	Standard
|	**Fe**	**54**	**0.434**	ug/L	0.486	111	76103	80209	0	Standard
|	**Fe**	**57**	**-0.938**	ug/L	0.407	43	22683	22571	1	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.001	76	389	432	5	Standard
⌈>	**Ge**	**72**		ug/L			41846	43087	2	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.001	49	20	17	11	KED
|	**Ni**	**62**	**0.002**	ug/L	0.015	770	1	2	173	KED
|	**Cu**	**63**	**0.004**	ug/L	0.002	44	50	75	11	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.004	632	36	35	35	KED
|	**Zn**	**66**	**0.007**	ug/L	0.008	113	31	36	16	KED
|	**Zn**	**67**	**-0.007**	ug/L	0.048	648	8	7	66	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.008	901	4	4	59	KED
	Y	**89**		ug/L			289048	299344	1	Standard
	Kr	**83**		ug/L			46	34	14	Standard
⌈>	**In-1**	**115**		ug/L			9530	9613	1	KED
|	**Mo**	**98**	**0.002**	ug/L	0.001	57	12	15	13	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.003	80	3	2	43	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.006	414	5	4	110	KED
⌈>	**In**	**115**		ug/L			542648	563024	1	Standard
|	**Ba**	**135**	**-0.001**	ug/L	0.002	237	48	43	34	Standard
⌊	**Ba**	**137**	**0.002**	ug/L	0.001	30	64	88	6	Standard
⌈>	**Tb**	**159**		ug/L			1272467	1323061	1	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	33	377	277	12	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	742	316	325	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0181-BLK3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 20:38:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			32357	54808	1	Standard
	Cl	37		ug/L			5128745	5166380	1	Standard
>	Sc	45		ug/L			522248	548436	0	Standard
	Na	23	6.928	ug/L	0.105	1	20516	172341	1	Standard
	Mg	24	0.523	ug/L	0.010	1	2102	17268	0	Standard
	Al	27	2.463	ug/L	0.060	2	22771	87749	2	Standard
	K	39	0.997	ug/L	0.214	21	474479	514870	0	Standard
	Ca	44	3.859	ug/L	0.068	1	9054	14599	1	Standard
	Cr	52	0.046	ug/L	0.033	73	17579	19369	2	Standard
	Cr	53	-0.048	ug/L	0.006	12	261	164	9	Standard
	Fe	54	0.968	ug/L	0.646	66	76103	82478	2	Standard
	Fe	57	0.992	ug/L	0.489	49	22683	24892	3	Standard
	Mn	55	0.056	ug/L	0.003	5	389	2268	3	Standard
>	Ge	72		ug/L			41846	43673	1	KED
	Ni	60	0.038	ug/L	0.004	11	20	93	8	KED
	Ni	62	0.019	ug/L	0.011	61	1	7	43	KED
	Cu	63	0.022	ug/L	0.003	12	50	170	6	KED
	Cu	65	0.016	ug/L	0.003	16	36	80	9	KED
	Zn	66	0.462	ug/L	0.058	12	31	343	10	KED
	Zn	67	0.460	ug/L	0.158	34	8	59	30	KED
	As	75	-0.004	ug/L	0.003	61	4	3	24	KED
	Y	89		ug/L			289048	302237	2	Standard
	Kr	83		ug/L			46	48	15	Standard
>	In-1	115		ug/L			9530	9667	6	KED
	Mo	98	0.002	ug/L	0.002	100	12	15	25	KED
	Cd	111	-0.000	ug/L	0.005	1988	3	3	43	KED
	Cd	114	-0.000	ug/L	0.009	25243	5	5	133	KED
>	In	115		ug/L			542648	568212	3	Standard
	Ba	135	0.060	ug/L	0.004	7	48	460	3	Standard
	Ba	137	0.061	ug/L	0.003	4	64	808	1	Standard
>	Tb	159		ug/L			1272467	1356554	1	Standard
	Tl	205	-0.002	ug/L	0.000	9	377	228	6	Standard
	Pb	208	0.002	ug/L	0.000	15	316	556	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0181-BS3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 20:43:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			32357	56172	4	Standard
	Cl	37		ug/L			5128745	5849712	3	Standard
>	Sc	45		ug/L			522248	545197	2	Standard
	Na	23	5155.508	ug/L	131.775	2	20516	111526317	0	Standard
	Mg	24	5293.263	ug/L	134.356	2	2102	151525264	3	Standard
	Al	27	5131.105	ug/L	164.570	3	22771	132222835	4	Standard
	K	39	5215.306	ug/L	199.419	3	474479	86831641	1	Standard
	Ca	44	5220.938	ug/L	77.906	1	9054	6853485	1	Standard
	Cr	52	27.078	ug/L	0.648	2	17579	556289	0	Standard
	Cr	53	26.601	ug/L	0.048	0	261	61279	2	Standard
	Fe	54	5048.481	ug/L	83.540	1	76103	13308236	1	Standard
	Fe	57	5121.208	ug/L	54.492	1	22683	5501848	1	Standard
	Mn	55	24.637	ug/L	0.431	1	389	808984	1	Standard
>	Ge	72		ug/L			41846	43243	2	KED
	Ni	60	25.932	ug/L	0.767	2	20	48203	1	KED
	Ni	62	25.982	ug/L	1.147	4	1	7774	2	KED
	Cu	63	26.103	ug/L	0.032	0	50	137423	2	KED
	Cu	65	25.742	ug/L	0.899	3	36	68357	1	KED
	Zn	66	85.280	ug/L	1.973	2	31	56861	0	KED
	Zn	67	80.334	ug/L	2.838	3	8	8823	3	KED
	As	75	26.449	ug/L	0.376	1	4	8595	0	KED
	Y	89		ug/L			289048	302677	2	Standard
	Kr	83		ug/L			46	43	11	Standard
>	In-1	115		ug/L			9530	9543	1	KED
	Mo	98	25.888	ug/L	0.708	2	12	41520	1	KED
	Cd	111	25.756	ug/L	0.894	3	3	8471	2	KED
	Cd	114	25.494	ug/L	0.482	1	5	21648	0	KED
>	In	115		ug/L			542648	555657	0	Standard
	Ba	135	27.095	ug/L	0.353	1	48	182197	0	Standard
	Ba	137	27.528	ug/L	0.301	1	64	328410	0	Standard
>	Tb	159		ug/L			1272467	1357769	0	Standard
	Tl	205	22.967	ug/L	0.329	1	377	1839098	0	Standard
	Pb	208	23.549	ug/L	0.155	0	316	2359426	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0347-BLK2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 20:48:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			32357	54908	2	Standard
	Cl	**37**		ug/L			5128745	5293195	2	Standard
⌈>	**Sc**	**45**		ug/L			522248	553942	2	Standard
|	**Na**	**23**	**1.320**	ug/L	0.948	71	20516	50445	38	Standard
|	**Mg**	**24**	**0.963**	ug/L	1.035	107	2102	29771	97	Standard
|	**Al**	**27**	**11.208**	ug/L	1.178	10	22771	317019	7	Standard
|	**K**	**39**	**1.107**	ug/L	1.526	137	474479	521433	2	Standard
|	**Ca**	**44**	**1.919**	ug/L	0.963	50	9054	12138	7	Standard
|	**Cr**	**52**	**0.100**	ug/L	0.033	32	17579	20661	1	Standard
|	**Cr**	**53**	**-0.011**	ug/L	0.014	123	261	251	9	Standard
|	**Fe**	**54**	**1.655**	ug/L	1.569	94	76103	85052	2	Standard
|	**Fe**	**57**	**-0.950**	ug/L	1.081	113	22683	23006	2	Standard
⌊	**Mn**	**55**	**0.022**	ug/L	0.007	30	389	1155	17	Standard
⌈>	**Ge**	**72**		ug/L			41846	43038	1	KED
|	**Ni**	**60**	**-0.000**	ug/L	0.001	276	20	20	9	KED
|	**Ni**	**62**	**0.004**	ug/L	0.004	91	1	3	34	KED
|	**Cu**	**63**	**0.051**	ug/L	0.007	13	50	318	10	KED
|	**Cu**	**65**	**0.052**	ug/L	0.009	17	36	175	14	KED
|	**Zn**	**66**	**0.145**	ug/L	0.019	13	31	128	10	KED
|	**Zn**	**67**	**0.096**	ug/L	0.033	34	8	19	20	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.002	92	4	3	18	KED
	Y	**89**		ug/L			289048	302116	2	Standard
	Kr	**83**		ug/L			46	52	13	Standard
⌈>	**In-1**	**115**		ug/L			9530	9658	0	KED
|	**Mo**	**98**	**0.005**	ug/L	0.004	72	12	21	30	KED
|	**Cd**	**111**	**-0.005**	ug/L	0.004	89	3	2	65	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.004	168	5	3	88	KED
⌈>	**In**	**115**		ug/L			542648	563404	2	Standard
|	**Ba**	**135**	**0.028**	ug/L	0.004	12	48	242	7	Standard
⌊	**Ba**	**137**	**0.031**	ug/L	0.008	25	64	441	18	Standard
⌈>	**Tb**	**159**		ug/L			1272467	1342999	1	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.005	458	377	489	83	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.006	131	316	791	76	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0347-BS2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 20:53:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			32357	56349	2	Standard
	Cl	**37**		ug/L			5128745	5848079	2	Standard
⌈>	**Sc**	**45**		ug/L			522248	547831	1	Standard
|	**Na**	**23**	**5440.158**	ug/L	171.953	3	20516	118329193	4	Standard
|	**Mg**	**24**	**5316.004**	ug/L	49.655	0	2102	152909070	2	Standard
|	**Al**	**27**	**5472.606**	ug/L	37.583	0	22771	141692511	2	Standard
|	**K**	**39**	**5193.441**	ug/L	29.992	0	474479	86945550	1	Standard
|	**Ca**	**44**	**5278.918**	ug/L	188.133	3	9054	6962574	2	Standard
|	**Cr**	**52**	**26.339**	ug/L	0.451	1	17579	544331	0	Standard
|	**Cr**	**53**	**26.554**	ug/L	0.297	1	261	61459	0	Standard
|	**Fe**	**54**	**5298.511**	ug/L	116.577	2	76103	14033016	1	Standard
|	**Fe**	**57**	**5348.954**	ug/L	144.902	2	22683	5773202	2	Standard
⌊	**Mn**	**55**	**23.865**	ug/L	0.466	1	389	787568	1	Standard
⌈>	**Ge**	**72**		ug/L			41846	42235	1	KED
|	**Ni**	**60**	**25.771**	ug/L	0.528	2	20	46795	1	KED
|	**Ni**	**62**	**25.756**	ug/L	0.390	1	1	7530	0	KED
|	**Cu**	**63**	**25.852**	ug/L	0.744	2	50	132908	2	KED
|	**Cu**	**65**	**26.023**	ug/L	0.550	2	36	67513	1	KED
|	**Zn**	**66**	**83.129**	ug/L	1.664	2	31	54150	2	KED
|	**Zn**	**67**	**80.545**	ug/L	1.285	1	8	8640	0	KED
⌊	**As**	**75**	**26.188**	ug/L	0.588	2	4	8312	0	KED
	Y	**89**		ug/L			289048	306884	1	Standard
	Kr	**83**		ug/L			46	53	19	Standard
⌈>	**In-1**	**115**		ug/L			9530	8443	15	KED
|	**Mo**	**98**	**30.366**	ug/L	4.533	14	12	42430	1	KED
|	**Cd**	**111**	**29.572**	ug/L	5.023	16	3	8456	0	KED
⌊	**Cd**	**114**	**29.140**	ug/L	4.850	16	5	21518	0	KED
⌈>	**In**	**115**		ug/L			542648	558173	0	Standard
|	**Ba**	**135**	**26.917**	ug/L	0.099	0	48	181826	0	Standard
⌊	**Ba**	**137**	**27.355**	ug/L	0.670	2	64	327805	1	Standard
⌈>	**Tb**	**159**		ug/L			1272467	1344601	0	Standard
|	**Tl**	**205**	**22.727**	ug/L	0.314	1	377	1802370	1	Standard
⌊	**Pb**	**208**	**23.412**	ug/L	0.214	0	316	2323025	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0717-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 20:58:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			32357	49184	2	Standard
	Cl	37		ug/L			5128745	5295767	2	Standard
>	Sc	45		ug/L			522248	548333	0	Standard
	Na	23	1.973	ug/L	0.590	29	20516	64436	19	Standard
	Mg	24	0.870	ug/L	0.527	60	2102	27217	55	Standard
	Al	27	0.555	ug/L	0.534	96	22771	38254	35	Standard
	K	39	3.662	ug/L	0.673	18	474479	559150	1	Standard
	Ca	44	5.785	ug/L	0.612	10	9054	17133	4	Standard
	Cr	52	0.092	ug/L	0.015	16	17579	20290	1	Standard
	Cr	53	-0.004	ug/L	0.002	42	261	264	1	Standard
	Fe	54	3.746	ug/L	1.093	29	76103	89771	2	Standard
	Fe	57	-0.940	ug/L	0.834	88	22683	22802	3	Standard
	Mn	55	0.038	ug/L	0.002	4	389	1668	2	Standard
>	Ge	72		ug/L			41846	43462	2	KED
	Ni	60	0.004	ug/L	0.002	45	20	28	11	KED
	Ni	62	0.023	ug/L	0.014	62	1	8	49	KED
	Cu	63	0.097	ug/L	0.015	15	50	563	11	KED
	Cu	65	0.077	ug/L	0.013	17	36	242	13	KED
	Zn	66	0.275	ug/L	0.027	9	31	216	6	KED
	Zn	67	0.251	ug/L	0.094	37	8	36	27	KED
	As	75	-0.008	ug/L	0.005	59	4	2	65	KED
	Y	89		ug/L			289048	302254	0	Standard
	Kr	83		ug/L			46	45	6	Standard
>	In-1	115		ug/L			9530	9557	1	KED
	Mo	98	0.008	ug/L	0.003	33	12	25	18	KED
	Cd	111	0.001	ug/L	0.003	359	3	4	26	KED
	Cd	114	-0.005	ug/L	0.004	82	5	1	200	KED
>	In	115		ug/L			542648	570931	0	Standard
	Ba	135	0.044	ug/L	0.003	6	48	356	4	Standard
	Ba	137	0.052	ug/L	0.001	2	64	707	1	Standard
>	Tb	159		ug/L			1272467	1357564	0	Standard
	Tl	205	-0.001	ug/L	0.002	220	377	347	34	Standard
	Pb	208	0.006	ug/L	0.002	33	316	914	21	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0717-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 21:03:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			32357	50696	4	Standard
	Cl	37		ug/L			5128745	5841300	3	Standard
>	Sc	45		ug/L			522248	555028	1	Standard
	Na	23	4961.456	ug/L	7.480	0	20516	109314443	1	Standard
	Mg	24	5033.084	ug/L	48.148	0	2102	146682237	2	Standard
	Al	27	4923.512	ug/L	76.120	1	22771	129125345	1	Standard
	K	39	4966.599	ug/L	49.468	0	474479	84262959	1	Standard
	Ca	44	5000.945	ug/L	175.406	3	9054	6683828	3	Standard
	Cr	52	25.928	ug/L	0.731	2	17579	543149	1	Standard
	Cr	53	26.116	ug/L	0.714	2	261	61249	3	Standard
	Fe	54	4762.791	ug/L	73.299	1	76103	12789625	2	Standard
	Fe	57	4888.772	ug/L	85.145	1	22683	5347902	0	Standard
	Mn	55	23.838	ug/L	0.618	2	389	796920	1	Standard
>	Ge	72		ug/L			41846	42752	1	KED
	Ni	60	25.204	ug/L	0.405	1	20	46329	0	KED
	Ni	62	26.150	ug/L	0.178	0	1	7740	2	KED
	Cu	63	25.808	ug/L	0.956	3	50	134268	2	KED
	Cu	65	25.781	ug/L	0.679	2	36	67694	0	KED
	Zn	66	82.520	ug/L	0.564	0	31	54419	2	KED
	Zn	67	79.984	ug/L	1.430	1	8	8687	2	KED
	As	75	25.576	ug/L	0.360	1	4	8218	1	KED
	Y	89		ug/L			289048	309390	2	Standard
	Kr	83		ug/L			46	48	22	Standard
>	In-1	115		ug/L			9530	9611	2	KED
	Mo	98	0.101	ug/L	0.026	25	12	174	24	KED
	Cd	111	25.097	ug/L	0.869	3	3	8311	1	KED
	Cd	114	25.012	ug/L	0.551	2	5	21392	2	KED
>	In	115		ug/L			542648	570131	3	Standard
	Ba	135	25.649	ug/L	0.670	2	48	176903	1	Standard
	Ba	137	26.148	ug/L	1.013	3	64	319825	0	Standard
>	Tb	159		ug/L			1272467	1374598	1	Standard
	Tl	205	22.515	ug/L	0.167	0	377	1825333	1	Standard
	Pb	208	22.738	ug/L	0.412	1	316	2306020	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0576-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Wednesday, April 26, 2023 21:13:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_no min.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			32357	131461	2	Standard
	Cl	37		ug/L			5128745	5469622	2	Standard
>	Sc	45		ug/L			522248	525220	0	Standard
	Cr	52	7.683	ug/L	0.171	2	17579	164759	1	Standard
	Cr	53	7.408	ug/L	0.118	1	261	16629	1	Standard
	Mn	55	15.660	ug/L	0.149	0	389	495651	0	Standard
>	Ge	72		ug/L			41846	43514	0	KED
	Ni	60	1.616	ug/L	0.057	3	20	3044	3	KED
	Ni	62	1.672	ug/L	0.068	4	1	505	3	KED
	Cu	63	0.475	ug/L	0.023	4	50	2569	4	KED
	Cu	65	0.489	ug/L	0.011	2	36	1342	2	KED
	Zn	66	10.843	ug/L	0.106	0	31	7305	0	KED
	Zn	67	10.271	ug/L	0.522	5	8	1142	5	KED
	As	75	0.051	ug/L	0.021	40	4	21	32	KED
	Y	89		ug/L			289048	300122	1	Standard
	Kr	83		ug/L			46	45	12	Standard
>	In-1	115		ug/L			9530	9647	0	KED
	Mo	98	0.444	ug/L	0.024	5	12	732	5	KED
	Cd	111	0.184	ug/L	0.025	13	3	65	12	KED
	Cd	114	0.210	ug/L	0.014	6	5	185	6	KED
>	In	115		ug/L			542648	561414	1	Standard
	Ba	135	2.383	ug/L	0.029	1	48	16235	1	Standard
	Ba	137	2.432	ug/L	0.044	1	64	29370	1	Standard
>	Tb	159		ug/L			1272467	1365668	0	Standard
	Tl	205	-0.002	ug/L	0.000	14	377	208	14	Standard
	Pb	208	0.017	ug/L	0.001	5	316	2096	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0539-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, April 26, 2023 21:19:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_no min.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			32357	230822	5	Standard
	Cl	37		ug/L			5128745	4903958	5	Standard
>	Sc	45		ug/L			522248	503306	2	Standard
	Cr	52	61.392	ug/L	0.596	0	17579	1143175	1	Standard
	Cr	53	60.480	ug/L	0.790	1	261	128294	2	Standard
	Mn	55	163.688	ug/L	3.018	1	389	4960333	1	Standard
>	Ge	72		ug/L			41846	37165	1	KED
	Ni	60	10.492	ug/L	0.224	2	20	16777	1	KED
	Ni	62	10.380	ug/L	0.450	4	1	2671	3	KED
	Cu	63	2.097	ug/L	0.107	5	50	9524	3	KED
	Cu	65	2.124	ug/L	0.039	1	36	4878	3	KED
	Zn	66	61.067	ug/L	1.469	2	31	35007	1	KED
	Zn	67	58.159	ug/L	1.455	2	8	5493	3	KED
	As	75	0.275	ug/L	0.048	17	4	80	15	KED
	Y	89		ug/L			289048	294706	1	Standard
	Kr	83		ug/L			46	45	0	Standard
>	In-1	115		ug/L			9530	8515	0	KED
	Mo	98	1.595	ug/L	0.034	2	12	2293	2	KED
	Cd	111	0.718	ug/L	0.011	1	3	213	1	KED
	Cd	114	0.686	ug/L	0.026	3	5	524	3	KED
>	In	115		ug/L			542648	523004	3	Standard
	Ba	135	12.837	ug/L	0.493	3	48	81210	1	Standard
	Ba	137	13.097	ug/L	0.543	4	64	146961	0	Standard
>	Tb	159		ug/L			1272467	1305786	3	Standard
	Tl	205	-0.003	ug/L	0.000	3	377	170	3	Standard
	Pb	208	0.106	ug/L	0.003	2	316	10568	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 21:24:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			32357	36089	2	Standard
	Cl	**37**		ug/L			5128745	5687549	3	Standard
⌈>	**Sc**	**45**		ug/L			522248	521261	2	Standard
|	**Na**	**23**	**-0.157**	ug/L	0.011	6	20516	17235	1	Standard
|	**Mg**	**24**	**0.028**	ug/L	0.004	15	2102	2862	3	Standard
|	**Al**	**27**	**-0.773**	ug/L	0.002	0	22771	3687	1	Standard
|	**K**	**39**	**7.041**	ug/L	0.552	7	474479	584966	1	Standard
|	**Ca**	**44**	**-1.207**	ug/L	0.162	13	9054	7523	2	Standard
|	**Cr**	**52**	**-0.018**	ug/L	0.036	200	17579	17190	1	Standard
|	**Cr**	**53**	**-0.069**	ug/L	0.007	9	261	110	10	Standard
|	**Fe**	**54**	**3.080**	ug/L	0.353	11	76103	83693	3	Standard
|	**Fe**	**57**	**-4.808**	ug/L	0.833	17	22683	17718	4	Standard
⌊	**Mn**	**55**	**0.003**	ug/L	0.001	32	389	487	5	Standard
⌈>	**Ge**	**72**		ug/L			41846	41300	1	KED
|	**Ni**	**60**	**0.006**	ug/L	0.002	37	20	30	10	KED
|	**Ni**	**62**	**0.022**	ug/L	0.028	123	1	8	96	KED
|	**Cu**	**63**	**0.001**	ug/L	0.003	295	50	54	23	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.001	57	36	32	5	KED
|	**Zn**	**66**	**0.070**	ug/L	0.011	15	31	75	9	KED
|	**Zn**	**67**	**0.050**	ug/L	0.036	73	8	13	28	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.004	73	4	2	44	KED
	Y	**89**		ug/L			289048	288658	2	Standard
	Kr	**83**		ug/L			46	31	36	Standard
⌈>	**In-1**	**115**		ug/L			9530	9100	1	KED
|	**Mo**	**98**	**-0.003**	ug/L	0.002	68	12	7	39	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.003	121	3	2	33	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.007	252	5	3	182	KED
⌈>	**In**	**115**		ug/L			542648	567595	4	Standard
|	**Ba**	**135**	**0.000**	ug/L	0.003	1070	48	52	41	Standard
⌊	**Ba**	**137**	**0.000**	ug/L	0.000	22	64	72	4	Standard
⌈>	**Tb**	**159**		ug/L			1272467	1349687	3	Standard
|	**Tl**	**205**	**-0.003**	ug/L	0.000	15	377	177	17	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	18	316	438	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 21:29:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			32357	34401	2	Standard
	Cl	**37**		ug/L			5128745	5847548	3	Standard
⌈>	**Sc**	**45**		ug/L			522248	534890	2	Standard
|	**Na**	**23**	**5149.764**	ug/L	159.652	3	20516	109294336	1	Standard
|	**Mg**	**24**	**4943.061**	ug/L	112.967	2	2102	138822047	3	Standard
|	**Al**	**27**	**5187.612**	ug/L	125.588	2	22771	131128065	3	Standard
|	**K**	**39**	**5167.325**	ug/L	155.683	3	474479	84428351	1	Standard
|	**Ca**	**44**	**4994.873**	ug/L	68.480	1	9054	6432958	1	Standard
|	**Cr**	**52**	**49.771**	ug/L	0.665	1	17579	988276	1	Standard
|	**Cr**	**53**	**49.659**	ug/L	0.480	0	261	111995	2	Standard
|	**Fe**	**54**	**4918.566**	ug/L	99.444	2	76103	12725095	2	Standard
|	**Fe**	**57**	**5040.268**	ug/L	95.969	1	22683	5313942	3	Standard
⌊	**Mn**	**55**	**44.944**	ug/L	0.457	1	389	1447760	1	Standard
⌈>	**Ge**	**72**		ug/L			41846	40618	2	KED
|	**Ni**	**60**	**49.838**	ug/L	1.548	3	20	86993	1	KED
|	**Ni**	**62**	**50.197**	ug/L	1.778	3	1	14109	3	KED
|	**Cu**	**63**	**50.859**	ug/L	1.251	2	50	251450	3	KED
|	**Cu**	**65**	**50.180**	ug/L	0.609	1	36	125160	1	KED
|	**Zn**	**66**	**53.533**	ug/L	1.557	2	31	33557	4	KED
|	**Zn**	**67**	**53.260**	ug/L	1.198	2	8	5499	4	KED
⌊	**As**	**75**	**51.187**	ug/L	0.529	1	4	15624	3	KED
	Y	**89**		ug/L			289048	302691	1	Standard
	Kr	**83**		ug/L			46	50	5	Standard
⌈>	**In-1**	**115**		ug/L			9530	9105	1	KED
|	**Mo**	**98**	**51.244**	ug/L	1.018	1	12	78440	3	KED
|	**Cd**	**111**	**50.322**	ug/L	0.647	1	3	15791	0	KED
⌊	**Cd**	**114**	**50.180**	ug/L	0.864	1	5	40650	0	KED
⌈>	**In**	**115**		ug/L			542648	553927	2	Standard
|	**Ba**	**135**	**51.707**	ug/L	1.639	3	48	346410	0	Standard
⌊	**Ba**	**137**	**52.926**	ug/L	1.684	3	64	629091	1	Standard
⌈>	**Tb**	**159**		ug/L			1272467	1398820	1	Standard
|	**Tl**	**205**	**49.409**	ug/L	0.335	0	377	4075735	0	Standard
⌊	**Pb**	**208**	**47.972**	ug/L	0.922	1	316	4950453	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 21:37:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			32357	31679	3	Standard
	Cl	**37**		ug/L			5128745	5515437	2	Standard
⌈>	**Sc**	**45**		ug/L			522248	535098	2	Standard
|	**Na**	**23**	**-0.271**	ug/L	0.032	11	20516	15250	1	Standard
|	**Mg**	**24**	**0.024**	ug/L	0.000	0	2102	2819	2	Standard
|	**Al**	**27**	**-0.759**	ug/L	0.003	0	22771	4146	2	Standard
|	**K**	**39**	**3.293**	ug/L	1.325	40	474479	539341	1	Standard
|	**Ca**	**44**	**-2.689**	ug/L	0.136	5	9054	5813	0	Standard
|	**Cr**	**52**	**-0.046**	ug/L	0.023	49	17579	17111	1	Standard
|	**Cr**	**53**	**-0.072**	ug/L	0.003	4	261	105	4	Standard
|	**Fe**	**54**	**0.956**	ug/L	1.433	149	76103	80376	2	Standard
|	**Fe**	**57**	**-4.745**	ug/L	0.416	8	22683	18252	0	Standard
⌊	**Mn**	**55**	**0.000**	ug/L	0.001	9015	389	399	6	Standard
⌈>	**Ge**	**72**		ug/L			41846	42706	0	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.004	120	20	15	42	KED
|	**Ni**	**62**	**0.008**	ug/L	0.004	43	1	4	24	KED
|	**Cu**	**63**	**0.005**	ug/L	0.001	22	50	80	8	KED
|	**Cu**	**65**	**0.000**	ug/L	0.002	1157	36	37	16	KED
|	**Zn**	**66**	**0.014**	ug/L	0.011	81	31	40	17	KED
|	**Zn**	**67**	**-0.013**	ug/L	0.040	301	8	6	62	KED
⌊	**As**	**75**	**-0.007**	ug/L	0.004	61	4	2	60	KED
	Y	**89**		ug/L			289048	301933	2	Standard
	Kr	**83**		ug/L			46	45	29	Standard
⌈>	**In-1**	**115**		ug/L			9530	9418	0	KED
|	**Mo**	**98**	**0.001**	ug/L	0.002	206	12	13	22	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.004	516	3	3	41	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.004	189	5	3	87	KED
⌈>	**In**	**115**		ug/L			542648	561808	2	Standard
|	**Ba**	**135**	**0.001**	ug/L	0.001	92	48	57	13	Standard
⌊	**Ba**	**137**	**0.002**	ug/L	0.001	39	64	88	7	Standard
⌈>	**Tb**	**159**		ug/L			1272467	1358923	1	Standard
|	**Tl**	**205**	**-0.002**	ug/L	0.000	4	377	233	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	21	316	418	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 21:44:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				29982	2	Standard
	Cl	**37**		ug/L				5454255	2	Standard
⌈>	**Sc**	**45**		ug/L				519513	2	Standard
|	**Na**	**23**		ug/L				11324	1	Standard
|	**Mg**	**24**		ug/L				1933	2	Standard
|	**Al**	**27**		ug/L				3025	1	Standard
|	**Cr**	**52**		ug/L				16933	0	Standard
|	**Cr**	**53**		ug/L				95	10	Standard
|	**Fe**	**54**		ug/L				79986	2	Standard
|	**Fe**	**57**		ug/L				17976	1	Standard
⌊	**Mn**	**55**		ug/L				367	10	Standard
⌈>	**Ge**	**72**		ug/L				42545	0	KED
|	**Ni**	**60**		ug/L				10	10	KED
|	**Ni**	**62**		ug/L				5	94	KED
|	**Cu**	**63**		ug/L				62	10	KED
|	**Cu**	**65**		ug/L				28	40	KED
|	**Zn**	**66**		ug/L				36	15	KED
|	**Zn**	**67**		ug/L				5	66	KED
⌊	**As**	**75**		ug/L				2	10	KED
	Y	**89**		ug/L				295853	0	Standard
	Kr	**83**		ug/L				47	12	Standard
⌈>	**In-1**	**115**		ug/L				9695	1	KED
|	**Cd**	**111**		ug/L				4	44	KED
⌊	**Cd**	**114**		ug/L				1	100	KED
⌈>	**In**	**115**		ug/L				556386	0	Standard
|	**Ba**	**135**		ug/L				32	10	Standard
⌊	**Ba**	**137**		ug/L				57	21	Standard
⌈>	**Tb**	**159**		ug/L				1335544	1	Standard
|	**Tl**	**205**		ug/L				200	1	Standard
⌊	**Pb**	**208**		ug/L				261	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 21:49:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29982	30976	5	Standard
	Cl	**37**		ug/L			5454255	5923130	2	Standard
⌈>	**Sc**	**45**		ug/L			519513	547738	0	Standard
|	**Na**	**23**	**5001.982**	ug/L	143.979	2	11324	108746443	2	Standard
|	**Mg**	**24**	**4923.482**	ug/L	86.778	1	1933	141585347	1	Standard
|	**Al**	**27**	**5054.572**	ug/L	95.096	1	3025	130819580	1	Standard
|	**Cr**	**52**	**49.866**	ug/L	1.297	2	16933	1013510	2	Standard
|	**Cr**	**53**	**49.739**	ug/L	0.723	1	95	114697	1	Standard
|	**Fe**	**54**	**4787.207**	ug/L	192.524	4	79986	12690233	3	Standard
|	**Fe**	**57**	**4902.032**	ug/L	206.709	4	17976	5287939	4	Standard
⌊	**Mn**	**55**	**44.589**	ug/L	0.707	1	367	1471029	1	Standard
⌈>	**Ge**	**72**		ug/L			42545	41532	1	KED
|	**Ni**	**60**	**48.941**	ug/L	0.781	1	10	87366	0	KED
|	**Ni**	**62**	**49.447**	ug/L	1.022	2	5	14217	1	KED
|	**Cu**	**63**	**49.752**	ug/L	1.299	2	62	251579	4	KED
|	**Cu**	**65**	**49.576**	ug/L	0.546	1	28	126447	1	KED
|	**Zn**	**66**	**50.738**	ug/L	0.452	0	36	32516	0	KED
|	**Zn**	**67**	**51.016**	ug/L	1.207	2	5	5383	3	KED
⌊	**As**	**75**	**50.792**	ug/L	0.290	0	2	15849	1	KED
	Y	**89**		ug/L			295853	299615	1	Standard
	Kr	**83**		ug/L			47	49	17	Standard
⌈>	**In-1**	**115**		ug/L			9695	9260	3	KED
|	**Cd**	**111**	**49.318**	ug/L	1.697	3	4	15730	0	KED
⌊	**Cd**	**114**	**49.178**	ug/L	1.100	2	1	40502	1	KED
⌈>	**In**	**115**		ug/L			556386	547548	0	Standard
|	**Ba**	**135**	**53.219**	ug/L	0.884	1	32	352591	1	Standard
⌊	**Ba**	**137**	**53.991**	ug/L	0.864	1	57	634702	2	Standard
⌈>	**Tb**	**159**		ug/L			1335544	1356183	2	Standard
|	**Tl**	**205**	**50.173**	ug/L	1.570	3	200	4010987	1	Standard
⌊	**Pb**	**208**	**48.147**	ug/L	1.005	2	261	4816618	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 21:57:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29982	30589	1	Standard
	Cl	**37**		ug/L			5454255	5505977	1	Standard
⌈>	**Sc**	**45**		ug/L			519513	529758	1	Standard
|	**Na**	**23**	**0.040**	ug/L	0.021	51	11324	12379	2	Standard
|	**Mg**	**24**	**0.006**	ug/L	0.002	33	1933	2126	1	Standard
|	**Al**	**27**	**0.009**	ug/L	0.003	30	3025	3322	2	Standard
|	**Cr**	**52**	**0.022**	ug/L	0.026	116	16933	17695	0	Standard
|	**Cr**	**53**	**0.001**	ug/L	0.003	221	95	99	5	Standard
|	**Fe**	**54**	**-0.877**	ug/L	1.447	165	79986	79303	3	Standard
|	**Fe**	**57**	**1.634**	ug/L	0.445	27	17976	20024	0	Standard
⌊	**Mn**	**55**	**0.000**	ug/L	0.001	336	367	382	5	Standard
⌈>	**Ge**	**72**		ug/L			42545	42529	1	KED
|	**Ni**	**60**	**0.026**	ug/L	0.020	78	10	57	63	KED
|	**Ni**	**62**	**0.022**	ug/L	0.012	53	5	11	28	KED
|	**Cu**	**63**	**0.019**	ug/L	0.016	86	62	158	50	KED
|	**Cu**	**65**	**0.026**	ug/L	0.018	67	28	97	47	KED
|	**Zn**	**66**	**0.015**	ug/L	0.022	152	36	45	31	KED
|	**Zn**	**67**	**0.036**	ug/L	0.053	149	5	9	60	KED
⌊	**As**	**75**	**0.029**	ug/L	0.022	77	2	11	59	KED
	Y	**89**		ug/L			295853	300175	3	Standard
	Kr	**83**		ug/L			47	38	15	Standard
⌈>	**In-1**	**115**		ug/L			9695	9585	0	KED
|	**Cd**	**111**	**-0.005**	ug/L	0.005	107	4	2	57	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.000	6	1	1		KED
⌈>	**In**	**115**		ug/L			556386	556479	2	Standard
|	**Ba**	**135**	**-0.001**	ug/L	0.002	270	32	27	38	Standard
⌊	**Ba**	**137**	**0.000**	ug/L	0.000	642	57	57	6	Standard
⌈>	**Tb**	**159**		ug/L			1335544	1336392	1	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.000	6	200	373	4	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	60	261	283	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0541-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 22:02:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	53527	3	Standard
	Cl	37		ug/L			5454255	5444673	2	Standard
>	Sc	45		ug/L			519513	556485	1	Standard
	Na	23	5047.105	ug/L	128.727	2	11324	111461529	1	Standard
	Mg	24	2769.804	ug/L	110.193	3	1933	80895084	2	Standard
	Al	27	71.662	ug/L	2.083	2	3025	1887093	2	Standard
	Cr	52	0.521	ug/L	0.033	6	16933	28692	1	Standard
	Cr	53	0.904	ug/L	0.012	1	95	2217	0	Standard
	Fe	54	542.537	ug/L	9.043	1	79986	1536948	0	Standard
	Fe	57	534.110	ug/L	17.706	3	17976	602369	2	Standard
	Mn	55	31.868	ug/L	0.687	2	367	1068031	0	Standard
>	Ge	72		ug/L			42545	42710	1	KED
	Ni	60	0.637	ug/L	0.009	1	10	1180	1	KED
	Ni	62	0.608	ug/L	0.058	9	5	184	9	KED
	Cu	63	2.542	ug/L	0.014	0	62	13274	2	KED
	Cu	65	2.575	ug/L	0.018	0	28	6780	1	KED
	Zn	66	9.365	ug/L	0.244	2	36	6200	1	KED
	Zn	67	9.154	ug/L	0.478	5	5	997	4	KED
	As	75	0.517	ug/L	0.022	4	2	168	2	KED
	Y	89		ug/L			295853	313891	1	Standard
	Kr	83		ug/L			47	40	20	Standard
>	In-1	115		ug/L			9695	9764	1	KED
	Cd	111	0.005	ug/L	0.002	36	4	6	9	KED
	Cd	114	0.010	ug/L	0.006	62	1	10	52	KED
>	In	115		ug/L			556386	569247	2	Standard
	Ba	135	7.465	ug/L	0.268	3	32	51428	2	Standard
	Ba	137	7.685	ug/L	0.190	2	57	93942	1	Standard
>	Tb	159		ug/L			1335544	1413153	0	Standard
	Tl	205	0.001	ug/L	0.000	2	200	326	0	Standard
	Pb	208	0.270	ug/L	0.005	1	261	28423	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0541-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 22:09:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	54537	1	Standard
	Cl	37		ug/L			5454255	5490243	2	Standard
>	Sc	45		ug/L			519513	559726	0	Standard
	Na	23	6616.920	ug/L	186.468	2	11324	147004056	2	Standard
	Mg	24	2959.590	ug/L	39.385	1	1933	86982244	2	Standard
	Al	27	78.253	ug/L	7.071	9	3025	2072175	8	Standard
	Cr	52	0.576	ug/L	0.018	3	16933	29993	1	Standard
	Cr	53	0.867	ug/L	0.031	3	95	2143	3	Standard
	Fe	54	1799.453	ug/L	29.092	1	79986	4928254	1	Standard
	Fe	57	1616.410	ug/L	1.077	0	17976	1794872	0	Standard
	Mn	55	236.342	ug/L	4.845	2	367	7967097	2	Standard
>	Ge	72		ug/L			42545	42316	1	KED
	Ni	60	1.221	ug/L	0.026	2	10	2231	1	KED
	Ni	62	1.196	ug/L	0.051	4	5	355	5	KED
	Cu	63	3.350	ug/L	0.064	1	62	17309	1	KED
	Cu	65	3.324	ug/L	0.051	1	28	8663	1	KED
	Zn	66	13.838	ug/L	0.339	2	36	9061	1	KED
	Zn	67	13.300	ug/L	0.364	2	5	1434	3	KED
	As	75	1.176	ug/L	0.027	2	2	376	1	KED
	Y	89		ug/L			295853	306788	3	Standard
	Kr	83		ug/L			47	60	25	Standard
>	In-1	115		ug/L			9695	9567	0	KED
	Cd	111	0.014	ug/L	0.012	87	4	8	44	KED
	Cd	114	0.015	ug/L	0.009	59	1	15	52	KED
>	In	115		ug/L			556386	565017	2	Standard
	Ba	135	10.080	ug/L	0.156	1	32	68929	1	Standard
	Ba	137	10.413	ug/L	0.173	1	57	126324	0	Standard
>	Tb	159		ug/L			1335544	1390696	0	Standard
	Tl	205	0.001	ug/L	0.000	27	200	270	6	Standard
	Pb	208	0.722	ug/L	0.004	0	261	74344	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0062-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 22:15:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	54567	1	Standard
	Cl	37		ug/L			5454255	5355996	3	Standard
>	Sc	45		ug/L			519513	567369	1	Standard
	Na	23	3307.896	ug/L	94.683	2	11324	74492589	2	Standard
	Mg	24	2750.074	ug/L	39.075	1	1933	81936521	3	Standard
	Al	27	5.651	ug/L	0.128	2	3025	154771	1	Standard
	Cr	52	0.206	ug/L	0.016	7	16933	22756	1	Standard
	Cr	53	0.451	ug/L	0.012	2	95	1181	4	Standard
	Fe	54	32.159	ug/L	2.210	6	79986	175042	3	Standard
	Fe	57	43.120	ug/L	0.843	1	17976	67640	1	Standard
	Mn	55	3.200	ug/L	0.079	2	367	109704	0	Standard
>	Ge	72		ug/L			42545	42641	0	KED
	Ni	60	0.075	ug/L	0.009	12	10	147	11	KED
	Ni	62	0.080	ug/L	0.012	15	5	28	11	KED
	Cu	63	0.101	ug/L	0.006	5	62	588	4	KED
	Cu	65	0.099	ug/L	0.003	3	28	288	3	KED
	Zn	66	0.770	ug/L	0.030	3	36	542	3	KED
	Zn	67	0.909	ug/L	0.082	8	5	104	8	KED
	As	75	0.229	ug/L	0.027	11	2	76	12	KED
	Y	89		ug/L			295853	299508	1	Standard
	Kr	83		ug/L			47	33	3	Standard
>	In-1	115		ug/L			9695	9611	2	KED
	Cd	111	-0.001	ug/L	0.004	452	4	4	35	KED
	Cd	114	0.003	ug/L	0.003	100	1	4	60	KED
>	In	115		ug/L			556386	558484	2	Standard
	Ba	135	1.183	ug/L	0.060	5	32	8021	3	Standard
	Ba	137	1.207	ug/L	0.051	4	57	14521	3	Standard
>	Tb	159		ug/L			1335544	1358780	1	Standard
	Tl	205	-0.000	ug/L	0.000	92	200	187	9	Standard
	Pb	208	0.015	ug/L	0.000	1	261	1746	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0062-03
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 22:20:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29982	53702	0	Standard
	Cl	**37**		ug/L			5454255	5267402	2	Standard
⌈>	**Sc**	**45**		ug/L			519513	581465	3	Standard
|	**Na**	**23**	**3851.801**	ug/L	145.798	3	11324	88840208	1	Standard
|	**Mg**	**24**	**3677.819**	ug/L	125.152	3	1933	112200936	0	Standard
|	**Al**	**27**	**56.028**	ug/L	1.212	2	3025	1542183	1	Standard
|	**Cr**	**52**	**0.157**	ug/L	0.019	11	16933	22273	1	Standard
|	**Cr**	**53**	**0.489**	ug/L	0.008	1	95	1302	3	Standard
|	**Fe**	**54**	**54.403**	ug/L	2.444	4	79986	241464	0	Standard
|	**Fe**	**57**	**63.483**	ug/L	2.107	3	17976	92509	0	Standard
⌊	**Mn**	**55**	**1.686**	ug/L	0.038	2	367	59404	0	Standard
⌈>	**Ge**	**72**		ug/L			42545	41913	1	KED
|	**Ni**	**60**	**0.140**	ug/L	0.008	5	10	261	3	KED
|	**Ni**	**62**	**0.142**	ug/L	0.039	27	5	46	24	KED
|	**Cu**	**63**	**0.213**	ug/L	0.009	4	62	1150	4	KED
|	**Cu**	**65**	**0.230**	ug/L	0.017	7	28	620	8	KED
|	**Zn**	**66**	**0.988**	ug/L	0.043	4	36	673	3	KED
|	**Zn**	**67**	**1.093**	ug/L	0.040	3	5	121	2	KED
⌊	**As**	**75**	**0.463**	ug/L	0.022	4	2	148	3	KED
	Y	**89**		ug/L			295853	300570	0	Standard
	Kr	**83**		ug/L			47	43	49	Standard
⌈>	**In-1**	**115**		ug/L			9695	9178	0	KED
|	**Cd**	**111**	**0.004**	ug/L	0.009	229	4	5	50	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.003	48	1	6	34	KED
⌈>	**In**	**115**		ug/L			556386	557191	1	Standard
|	**Ba**	**135**	**2.617**	ug/L	0.084	3	32	17671	1	Standard
⌊	**Ba**	**137**	**2.584**	ug/L	0.058	2	57	30956	1	Standard
⌈>	**Tb**	**159**		ug/L			1335544	1371689	1	Standard
|	**Tl**	**205**	**0.000**	ug/L	0.000	151	200	219	8	Standard
⌊	**Pb**	**208**	**0.048**	ug/L	0.001	2	261	5090	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0062-05
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 22:24:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	55853	3	Standard
	Cl	37		ug/L			5454255	5252988	2	Standard
>	Sc	45		ug/L			519513	587458	1	Standard
	Na	23	3880.863	ug/L	116.239	2	11324	90483295	2	Standard
	Mg	24	3741.624	ug/L	118.992	3	1933	115400353	3	Standard
	Al	27	49.956	ug/L	2.091	4	3025	1389665	3	Standard
	Cr	52	0.306	ug/L	0.040	12	16933	25701	2	Standard
	Cr	53	0.655	ug/L	0.022	3	95	1726	2	Standard
	Fe	54	46.191	ug/L	1.210	2	79986	220882	0	Standard
	Fe	57	63.644	ug/L	1.818	2	17976	93686	1	Standard
	Mn	55	1.629	ug/L	0.044	2	367	58048	2	Standard
>	Ge	72		ug/L			42545	41584	0	KED
	Ni	60	0.133	ug/L	0.017	12	10	247	12	KED
	Ni	62	0.139	ug/L	0.037	26	5	45	23	KED
	Cu	63	0.229	ug/L	0.015	6	62	1222	5	KED
	Cu	65	0.235	ug/L	0.019	8	28	627	8	KED
	Zn	66	0.525	ug/L	0.060	11	36	371	9	KED
	Zn	67	0.669	ug/L	0.058	8	5	76	9	KED
	As	75	0.484	ug/L	0.035	7	2	153	6	KED
	Y	89		ug/L			295853	309621	0	Standard
	Kr	83		ug/L			47	45	25	Standard
>	In-1	115		ug/L			9695	9065	2	KED
	Cd	111	-0.000	ug/L	0.002	1920	4	4	13	KED
	Cd	114	0.007	ug/L	0.006	92	1	7	68	KED
>	In	115		ug/L			556386	551929	3	Standard
	Ba	135	2.656	ug/L	0.057	2	32	17763	1	Standard
	Ba	137	2.660	ug/L	0.108	4	57	31548	1	Standard
>	Tb	159		ug/L			1335544	1375041	0	Standard
	Tl	205	0.000	ug/L	0.001	399	200	217	21	Standard
	Pb	208	0.045	ug/L	0.001	2	261	4814	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0062-07
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 22:29:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	49326	1	Standard
	Cl	37		ug/L			5454255	5284633	0	Standard
>	Sc	45		ug/L			519513	543056	0	Standard
	Na	23	38.913	ug/L	0.482	1	11324	850531	0	Standard
	Mg	24	4.115	ug/L	0.097	2	1933	119338	2	Standard
	Al	27	27.136	ug/L	0.565	2	3025	699447	1	Standard
	Cr	52	0.143	ug/L	0.010	7	16933	20532	0	Standard
	Cr	53	0.113	ug/L	0.005	4	95	356	3	Standard
	Fe	54	8.442	ug/L	1.054	12	79986	105648	2	Standard
	Fe	57	2.457	ug/L	0.134	5	17976	21409	0	Standard
	Mn	55	0.105	ug/L	0.001	1	367	3834	1	Standard
>	Ge	72		ug/L			42545	43903	1	KED
	Ni	60	0.159	ug/L	0.003	2	10	309	2	KED
	Ni	62	0.135	ug/L	0.024	18	5	46	17	KED
	Cu	63	0.285	ug/L	0.010	3	62	1584	3	KED
	Cu	65	0.305	ug/L	0.002	0	28	852	1	KED
	Zn	66	0.314	ug/L	0.045	14	36	249	10	KED
	Zn	67	0.312	ug/L	0.007	2	5	40	2	KED
	As	75	0.016	ug/L	0.009	58	2	7	39	KED
	Y	89		ug/L			295853	299251	0	Standard
	Kr	83		ug/L			47	47	8	Standard
>	In-1	115		ug/L			9695	9960	1	KED
	Cd	111	-0.002	ug/L	0.007	328	4	3	66	KED
	Cd	114	0.003	ug/L	0.005	199	1	4	106	KED
>	In	115		ug/L			556386	572971	0	Standard
	Ba	135	0.458	ug/L	0.005	1	32	3210	0	Standard
	Ba	137	0.464	ug/L	0.015	3	57	5761	2	Standard
>	Tb	159		ug/L			1335544	1364020	1	Standard
	Tl	205	-0.001	ug/L	0.000	59	200	154	20	Standard
	Pb	208	0.006	ug/L	0.000	6	261	909	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0472-DUP2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 22:34:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	48252	3	Standard
	Cl	37		ug/L			5454255	5330326	1	Standard
>	Sc	45		ug/L			519513	537626	0	Standard
	Na	23	39.363	ug/L	0.589	1	11324	851675	1	Standard
	Mg	24	4.327	ug/L	0.106	2	1933	124121	1	Standard
	Al	27	119.941	ug/L	2.756	2	3025	3050293	2	Standard
	Cr	52	0.154	ug/L	0.027	17	16933	20550	2	Standard
	Cr	53	0.099	ug/L	0.002	2	95	323	1	Standard
	Fe	54	8.708	ug/L	0.972	11	79986	105286	2	Standard
	Fe	57	2.172	ug/L	0.301	13	17976	20893	0	Standard
	Mn	55	0.119	ug/L	0.003	2	367	4218	1	Standard
>	Ge	72		ug/L			42545	42854	0	KED
	Ni	60	0.187	ug/L	0.013	7	10	354	6	KED
	Ni	62	0.165	ug/L	0.030	18	5	53	16	KED
	Cu	63	0.295	ug/L	0.009	2	62	1601	3	KED
	Cu	65	0.281	ug/L	0.013	4	28	768	4	KED
	Zn	66	0.267	ug/L	0.037	13	36	212	11	KED
	Zn	67	0.280	ug/L	0.123	43	5	36	36	KED
	As	75	0.020	ug/L	0.003	16	2	8	11	KED
	Y	89		ug/L			295853	292521	2	Standard
	Kr	83		ug/L			47	38	21	Standard
>	In-1	115		ug/L			9695	9420	1	KED
	Cd	111	-0.010	ug/L	0.003	27	4	0	100	KED
	Cd	114	-0.000	ug/L	0.002	1062	1	1	124	KED
>	In	115		ug/L			556386	555904	2	Standard
	Ba	135	0.485	ug/L	0.033	6	32	3293	4	Standard
	Ba	137	0.495	ug/L	0.026	5	57	5961	2	Standard
>	Tb	159		ug/L			1335544	1366665	0	Standard
	Tl	205	-0.001	ug/L	0.000	26	200	158	7	Standard
	Pb	208	0.006	ug/L	0.000	8	261	862	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0472-MS2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 22:39:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	48577	3	Standard
	Cl	37		ug/L			5454255	5868495	4	Standard
>	Sc	45		ug/L			519513	546846	2	Standard
	Na	23	5092.004	ug/L	65.582	1	11324	110551760	3	Standard
	Mg	24	5130.387	ug/L	71.735	1	1933	147274587	1	Standard
	Al	27	5259.824	ug/L	48.755	0	3025	135908754	2	Standard
	Cr	52	25.687	ug/L	0.558	2	16933	529793	2	Standard
	Cr	53	25.922	ug/L	0.759	2	95	59700	1	Standard
	Fe	54	4912.819	ug/L	90.636	1	79986	12997856	2	Standard
	Fe	57	4968.805	ug/L	64.584	1	17976	5350567	2	Standard
	Mn	55	23.737	ug/L	0.367	1	367	781886	1	Standard
>	Ge	72		ug/L			42545	42600	1	KED
	Ni	60	25.580	ug/L	0.564	2	10	46843	1	KED
	Ni	62	25.309	ug/L	0.510	2	5	7469	3	KED
	Cu	63	25.411	ug/L	0.092	0	62	131796	1	KED
	Cu	65	25.613	ug/L	0.338	1	28	67026	1	KED
	Zn	66	79.042	ug/L	2.097	2	36	51941	2	KED
	Zn	67	74.313	ug/L	0.365	0	5	8039	0	KED
	As	75	25.416	ug/L	0.475	1	2	8135	0	KED
	Y	89		ug/L			295853	297833	1	Standard
	Kr	83		ug/L			47	46	12	Standard
>	In-1	115		ug/L			9695	9254	2	KED
	Cd	111	24.853	ug/L	0.956	3	4	7926	1	KED
	Cd	114	24.777	ug/L	0.580	2	1	20399	1	KED
>	In	115		ug/L			556386	549681	3	Standard
	Ba	135	26.864	ug/L	0.988	3	32	178587	2	Standard
	Ba	137	27.599	ug/L	0.631	2	57	325573	0	Standard
>	Tb	159		ug/L			1335544	1372644	1	Standard
	Tl	205	22.325	ug/L	0.463	2	200	1806901	0	Standard
	Pb	208	22.834	ug/L	0.411	1	261	2312550	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0472-MSD2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 22:43:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	46766	1	Standard
	Cl	37		ug/L			5454255	6023607	3	Standard
>	Sc	45		ug/L			519513	541365	2	Standard
	Na	23	5198.344	ug/L	157.251	3	11324	111717264	4	Standard
	Mg	24	5086.450	ug/L	117.326	2	1933	144548360	2	Standard
	Al	27	5250.943	ug/L	113.344	2	3025	134302359	2	Standard
	Cr	52	26.035	ug/L	0.948	3	16933	531185	1	Standard
	Cr	53	26.037	ug/L	0.904	3	95	59375	2	Standard
	Fe	54	4928.388	ug/L	109.877	2	79986	12907867	1	Standard
	Fe	57	5010.160	ug/L	109.184	2	17976	5340194	1	Standard
	Mn	55	23.693	ug/L	0.365	1	367	772641	1	Standard
>	Ge	72		ug/L			42545	42189	0	KED
	Ni	60	25.316	ug/L	0.404	1	10	45922	2	KED
	Ni	62	25.198	ug/L	0.324	1	5	7363	1	KED
	Cu	63	25.454	ug/L	0.365	1	62	130760	2	KED
	Cu	65	25.464	ug/L	0.275	1	28	65992	0	KED
	Zn	66	78.159	ug/L	1.005	1	36	50866	0	KED
	Zn	67	75.384	ug/L	0.327	0	5	8077	0	KED
	As	75	25.397	ug/L	0.230	0	2	8052	0	KED
	Y	89		ug/L			295853	299153	2	Standard
	Kr	83		ug/L			47	36	5	Standard
>	In-1	115		ug/L			9695	9376	1	KED
	Cd	111	24.505	ug/L	0.267	1	4	7921	1	KED
	Cd	114	24.264	ug/L	0.726	2	1	20235	1	KED
>	In	115		ug/L			556386	539514	0	Standard
	Ba	135	26.849	ug/L	0.777	2	32	175289	2	Standard
	Ba	137	27.481	ug/L	0.216	0	57	318311	0	Standard
>	Tb	159		ug/L			1335544	1343949	1	Standard
	Tl	205	22.352	ug/L	0.758	3	200	1771088	2	Standard
	Pb	208	22.968	ug/L	0.511	2	261	2277345	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-~~IBL9~~ IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 22:50:37 MB 4/26/23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29982	32019	2	Standard
	Cl	**37**		ug/L			5454255	5566138	1	Standard
⌈>	**Sc**	**45**		ug/L			519513	539369	2	Standard
|	**Na**	**23**	**0.042**	ug/L	0.020	47	11324	12651	1	Standard
|	**Mg**	**24**	**0.042**	ug/L	0.011	25	1933	3192	7	Standard
|	**Al**	**27**	**0.039**	ug/L	0.014	36	3025	4134	6	Standard
|	**Cr**	**52**	**0.021**	ug/L	0.047	218	16933	17992	3	Standard
|	**Cr**	**53**	**0.005**	ug/L	0.010	200	95	110	19	Standard
|	**Fe**	**54**	**-0.679**	ug/L	0.498	73	79986	81263	0	Standard
|	**Fe**	**57**	**3.699**	ug/L	0.220	5	17976	22576	1	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.001	49	367	449	5	Standard
⌈>	**Ge**	**72**		ug/L			42545	42017	1	KED
|	**Ni**	**60**	**0.009**	ug/L	0.005	58	10	26	36	KED
|	**Ni**	**62**	**0.007**	ug/L	0.013	199	5	6	56	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.002	179	62	56	19	KED
|	**Cu**	**65**	**0.001**	ug/L	0.002	286	28	29	16	KED
|	**Zn**	**66**	**0.010**	ug/L	0.009	96	36	41	13	KED
|	**Zn**	**67**	**0.012**	ug/L	0.027	217	5	6	41	KED
⌊	**As**	**75**	**0.002**	ug/L	0.004	177	2	3	37	KED
	Y	**89**		ug/L			295853	290879	1	Standard
	Kr	**83**		ug/L			47	40	21	Standard
⌈>	**In-1**	**115**		ug/L			9695	9611	2	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.003	37	4	1	50	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.007	190	1	4	116	KED
⌈>	**In**	**115**		ug/L			556386	531515	1	Standard
|	**Ba**	**135**	**0.002**	ug/L	0.001	51	32	45	17	Standard
⌊	**Ba**	**137**	**0.002**	ug/L	0.001	35	57	76	10	Standard
⌈>	**Tb**	**159**		ug/L			1335544	1314840	0	Standard
|	**Tl**	**205**	**0.000**	ug/L	0.000	146	200	216	13	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	35	261	371	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 22:55:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29982	31219	1	Standard
	Cl	**37**		ug/L			5454255	6016775	2	Standard
⌈>	**Sc**	**45**		ug/L			519513	524802	0	Standard
|	**Na**	**23**	**5114.052**	ug/L	148.862	2	11324	106518498	2	Standard
|	**Mg**	**24**	**4935.905**	ug/L	18.864	0	1933	136007262	1	Standard
|	**Al**	**27**	**5043.052**	ug/L	93.353	1	3025	125057007	2	Standard
|	**Cr**	**52**	**51.571**	ug/L	0.806	1	16933	1003687	1	Standard
|	**Cr**	**53**	**51.355**	ug/L	1.473	2	95	113465	2	Standard
|	**Fe**	**54**	**4851.270**	ug/L	132.309	2	79986	12320264	2	Standard
|	**Fe**	**57**	**4873.652**	ug/L	126.876	2	17976	5037878	3	Standard
⌊	**Mn**	**55**	**46.247**	ug/L	1.464	3	367	1461689	2	Standard
⌈>	**Ge**	**72**		ug/L			42545	42310	2	KED
|	**Ni**	**60**	**48.045**	ug/L	0.509	1	10	87373	1	KED
|	**Ni**	**62**	**48.843**	ug/L	1.063	2	5	14304	0	KED
|	**Cu**	**63**	**49.364**	ug/L	0.138	0	62	254236	2	KED
|	**Cu**	**65**	**48.262**	ug/L	0.308	0	28	125407	2	KED
|	**Zn**	**66**	**49.089**	ug/L	0.345	0	36	32054	2	KED
|	**Zn**	**67**	**50.575**	ug/L	1.172	2	5	5434	1	KED
⌊	**As**	**75**	**50.036**	ug/L	1.238	2	2	15902	0	KED
	Y	**89**		ug/L			295853	293381	1	Standard
	Kr	**83**		ug/L			47	39	26	Standard
⌈>	**In-1**	**115**		ug/L			9695	9163	2	KED
|	**Cd**	**111**	**48.958**	ug/L	0.698	1	4	15459	1	KED
⌊	**Cd**	**114**	**49.121**	ug/L	1.117	2	1	40031	0	KED
⌈>	**In**	**115**		ug/L			556386	523643	1	Standard
|	**Ba**	**135**	**52.415**	ug/L	1.271	2	32	332028	0	Standard
⌊	**Ba**	**137**	**53.127**	ug/L	0.407	0	57	597210	1	Standard
⌈>	**Tb**	**159**		ug/L			1335544	1342249	0	Standard
|	**Tl**	**205**	**47.881**	ug/L	0.575	1	200	3789833	0	Standard
⌊	**Pb**	**208**	**47.491**	ug/L	0.338	0	261	4703241	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 23:02:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29982	31717	3	Standard
	Cl	**37**		ug/L			5454255	5667568	2	Standard
⌈>	**Sc**	**45**		ug/L			519513	526101	1	Standard
|	**Na**	**23**	**1.002**	ug/L	1.230	122	11324	32330	79	Standard
|	**Mg**	**24**	**0.902**	ug/L	1.205	133	1933	26808	124	Standard
|	**Al**	**27**	**0.923**	ug/L	1.106	119	3025	25940	105	Standard
|	**Cr**	**52**	**0.039**	ug/L	0.028	71	16933	17900	1	Standard
|	**Cr**	**53**	**0.019**	ug/L	0.011	57	95	137	17	Standard
|	**Fe**	**54**	**0.219**	ug/L	1.483	678	79986	81531	3	Standard
|	**Fe**	**57**	**4.742**	ug/L	1.502	31	17976	23097	6	Standard
⌊	**Mn**	**55**	**0.008**	ug/L	0.009	116	367	611	45	Standard
⌈>	**Ge**	**72**		ug/L			42545	42774	0	KED
|	**Ni**	**60**	**0.004**	ug/L	0.002	40	10	17	16	KED
|	**Ni**	**62**	**-0.002**	ug/L	0.004	173	5	4	24	KED
|	**Cu**	**63**	**0.001**	ug/L	0.002	168	62	67	11	KED
|	**Cu**	**65**	**-0.000**	ug/L	0.002	2944	28	28	17	KED
|	**Zn**	**66**	**0.001**	ug/L	0.006	899	36	36	10	KED
|	**Zn**	**67**	**0.012**	ug/L	0.054	463	5	6	83	KED
⌊	**As**	**75**	**0.006**	ug/L	0.006	86	2	4	39	KED
	Y	**89**		ug/L			295853	288570	2	Standard
	Kr	**83**		ug/L			47	52	20	Standard
⌈>	**In-1**	**115**		ug/L			9695	9490	2	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.003	182	4	3	25	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.001	167	1	2	44	KED
⌈>	**In**	**115**		ug/L			556386	535358	1	Standard
|	**Ba**	**135**	**0.008**	ug/L	0.008	102	32	82	64	Standard
⌊	**Ba**	**137**	**0.007**	ug/L	0.009	133	57	133	79	Standard
⌈>	**Tb**	**159**		ug/L			1335544	1316501	0	Standard
|	**Tl**	**205**	**0.007**	ug/L	0.008	113	200	767	84	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.009	128	261	947	93	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0509-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 23:08:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	51717	2	Standard
	Cl	37		ug/L			5454255	5484458	2	Standard
>	Sc	45		ug/L			519513	547274	0	Standard
	Na	23	49.644	ug/L	1.751	3	11324	1090071	2	Standard
	Mg	24	0.483	ug/L	0.023	4	1933	15916	3	Standard
	Al	27	1.194	ug/L	0.037	3	3025	34058	2	Standard
	Cr	52	0.158	ug/L	0.040	25	16933	20987	3	Standard
	Cr	53	0.110	ug/L	0.014	13	95	352	8	Standard
	Fe	54	4.810	ug/L	0.744	15	79986	96914	1	Standard
	Fe	57	5.362	ug/L	0.107	2	17976	24694	0	Standard
	Mn	55	0.405	ug/L	0.006	1	367	13736	1	Standard
>	Ge	72		ug/L			42545	43434	1	KED
	Ni	60	0.017	ug/L	0.007	39	10	41	28	KED
	Ni	62	-0.000	ug/L	0.004	1025	5	5	21	KED
	Cu	63	0.025	ug/L	0.003	11	62	196	7	KED
	Cu	65	0.027	ug/L	0.004	14	28	101	9	KED
	Zn	66	0.916	ug/L	0.038	4	36	650	5	KED
	Zn	67	0.794	ug/L	0.138	17	5	93	15	KED
	As	75	0.005	ug/L	0.004	90	2	4	33	KED
	Y	89		ug/L			295853	296494	2	Standard
	Kr	83		ug/L			47	40	31	Standard
>	In-1	115		ug/L			9695	9772	0	KED
	Cd	111	-0.008	ug/L	0.003	36	4	1	50	KED
	Cd	114	-0.001	ug/L	0.001	87	1	0	102	KED
>	In	115		ug/L			556386	560361	2	Standard
	Ba	135	0.071	ug/L	0.007	10	32	514	7	Standard
	Ba	137	0.077	ug/L	0.002	2	57	985	3	Standard
>	Tb	159		ug/L			1335544	1348088	0	Standard
	Tl	205	0.000	ug/L	0.000	25	200	225	2	Standard
	Pb	208	0.004	ug/L	0.001	11	261	711	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0509-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 23:13:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	53455	2	Standard
	Cl	37		ug/L			5454255	5491236	3	Standard
>	Sc	45		ug/L			519513	525091	4	Standard
	Na	23	49.726	ug/L	1.569	3	11324	1046749	1	Standard
	Mg	24	0.381	ug/L	0.014	3	1933	12437	1	Standard
	Al	27	1.160	ug/L	0.030	2	3025	31825	2	Standard
	Cr	52	25.955	ug/L	0.847	3	16933	513452	1	Standard
	Cr	53	25.998	ug/L	1.032	3	95	57452	1	Standard
	Fe	54	5.460	ug/L	1.285	23	79986	94529	1	Standard
	Fe	57	5.321	ug/L	0.256	4	17976	23644	3	Standard
	Mn	55	23.728	ug/L	0.815	3	367	749859	1	Standard
>	Ge	72		ug/L			42545	43210	1	KED
	Ni	60	24.354	ug/L	0.771	3	10	45228	1	KED
	Ni	62	25.028	ug/L	0.413	1	5	7490	2	KED
	Cu	63	25.364	ug/L	0.246	0	62	133427	1	KED
	Cu	65	25.860	ug/L	0.539	2	28	68626	1	KED
	Zn	66	79.744	ug/L	2.089	2	36	53141	1	KED
	Zn	67	74.822	ug/L	2.406	3	5	8208	2	KED
	As	75	24.565	ug/L	0.276	1	2	7976	0	KED
	Y	89		ug/L			295853	285469	4	Standard
	Kr	83		ug/L			47	39	22	Standard
>	In-1	115		ug/L			9695	9428	1	KED
	Cd	111	24.709	ug/L	0.954	3	4	8029	3	KED
	Cd	114	24.538	ug/L	0.656	2	1	20588	3	KED
>	In	115		ug/L			556386	529305	4	Standard
	Ba	135	26.422	ug/L	0.832	3	32	169095	3	Standard
	Ba	137	27.372	ug/L	1.189	4	57	310623	0	Standard
>	Tb	159		ug/L			1335544	1301041	3	Standard
	Tl	205	22.751	ug/L	0.806	3	200	1744492	1	Standard
	Pb	208	23.605	ug/L	0.247	1	261	2265615	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0510-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 23:18:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	53707	1	Standard
	Cl	37		ug/L			5454255	5472807	2	Standard
>	Sc	45		ug/L			519513	544562	2	Standard
	Na	23	49.580	ug/L	1.063	2	11324	1083160	0	Standard
	Mg	24	0.345	ug/L	0.017	4	1933	11880	2	Standard
	Al	27	1.204	ug/L	0.042	3	3025	34125	1	Standard
	Cr	52	0.142	ug/L	0.021	14	16933	20555	0	Standard
	Cr	53	0.121	ug/L	0.018	14	95	375	8	Standard
	Fe	54	5.024	ug/L	1.373	27	79986	96945	1	Standard
	Fe	57	6.353	ug/L	0.543	8	17976	25625	0	Standard
	Mn	55	0.074	ug/L	0.002	3	367	2815	3	Standard
>	Ge	72		ug/L			42545	43017	2	KED
	Ni	60	0.060	ug/L	0.007	11	10	121	12	KED
	Ni	62	0.023	ug/L	0.017	72	5	12	39	KED
	Cu	63	0.165	ug/L	0.013	7	62	926	5	KED
	Cu	65	0.163	ug/L	0.002	1	28	458	2	KED
	Zn	66	1.519	ug/L	0.019	1	36	1043	1	KED
	Zn	67	1.356	ug/L	0.157	11	5	153	9	KED
	As	75	0.006	ug/L	0.005	76	2	4	33	KED
	Y	89		ug/L			295853	293648	0	Standard
	Kr	83		ug/L			47	33	26	Standard
>	In-1	115		ug/L			9695	9413	3	KED
	Cd	111	-0.005	ug/L	0.003	60	4	2	33	KED
	Cd	114	0.001	ug/L	0.002	140	1	2	45	KED
>	In	115		ug/L			556386	552148	1	Standard
	Ba	135	0.029	ug/L	0.003	10	32	224	8	Standard
	Ba	137	0.029	ug/L	0.001	3	57	395	3	Standard
>	Tb	159		ug/L			1335544	1326019	1	Standard
	Tl	205	0.001	ug/L	0.000	36	200	243	5	Standard
	Pb	208	0.012	ug/L	0.000	0	261	1386	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0510-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 23:23:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	54886	1	Standard
	Cl	37		ug/L			5454255	5484485	1	Standard
⌈>	Sc	45		ug/L			519513	533807	2	Standard
|	Na	23	51.526	ug/L	1.819	3	11324	1102726	1	Standard
|	Mg	24	0.479	ug/L	0.069	14	1933	15415	13	Standard
|	Al	27	1.309	ug/L	0.066	5	3025	36123	4	Standard
|	Cr	52	27.276	ug/L	0.850	3	16933	547928	0	Standard
|	Cr	53	27.254	ug/L	0.495	1	95	61289	2	Standard
|	Fe	54	8.018	ug/L	2.022	25	79986	102684	2	Standard
|	Fe	57	7.917	ug/L	0.277	3	17976	26762	2	Standard
⌊	Mn	55	25.149	ug/L	0.665	2	367	808439	0	Standard
⌈>	Ge	72		ug/L			42545	43387	1	KED
|	Ni	60	25.715	ug/L	0.287	1	10	47968	1	KED
|	Ni	62	25.808	ug/L	0.321	1	5	7755	0	KED
|	Cu	63	26.762	ug/L	0.215	0	62	141379	1	KED
|	Cu	65	26.560	ug/L	0.508	1	28	70780	1	KED
|	Zn	66	82.010	ug/L	1.435	1	36	54891	2	KED
|	Zn	67	80.163	ug/L	2.575	3	5	8831	2	KED
⌊	As	75	25.525	ug/L	0.086	0	2	8322	0	KED
	Y	89		ug/L			295853	296648	3	Standard
	Kr	83		ug/L			47	42	22	Standard
⌈>	In-1	115		ug/L			9695	9145	4	KED
|	Cd	111	26.252	ug/L	1.392	5	4	8265	1	KED
⌊	Cd	114	25.761	ug/L	0.135	0	1	20962	4	KED
⌈>	In	115		ug/L			556386	555832	1	Standard
|	Ba	135	27.534	ug/L	1.065	3	32	185132	2	Standard
⌊	Ba	137	27.834	ug/L	1.323	4	57	332017	3	Standard
⌈>	Tb	159		ug/L			1335544	1332873	1	Standard
|	Tl	205	23.845	ug/L	0.039	0	200	1874279	1	Standard
⌊	Pb	208	24.582	ug/L	0.329	1	261	2417574	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0140-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 23:27:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29982	61414	0	Standard
	Cl	**37**		ug/L			5454255	9392206	2	Standard
⌈>	**Sc**	**45**		ug/L			519513	572499	0	Standard
|	**Na**	**23**	**S**	ug/L	S	S	11324	S	S	Standard
|	**Mg**	**24**	**7693.579**	ug/L	301.500	3	1933	231209051	3	Standard
|	**Al**	**27**	**16.128**	ug/L	0.454	2	3025	439540	2	Standard
|	**Cr**	**52**	**0.700**	ug/L	0.027	3	16933	33269	0	Standard
|	**Cr**	**53**	**7.041**	ug/L	0.081	1	95	17061	1	Standard
|	**Fe**	**54**	**380.186**	ug/L	10.458	2	79986	1134489	2	Standard
|	**Fe**	**57**	**400.694**	ug/L	4.699	1	17976	469955	0	Standard
⌊	**Mn**	**55**	**41.637**	ug/L	0.826	1	367	1435787	2	Standard
⌈>	**Ge**	**72**		ug/L			42545	39610	0	KED
|	**Ni**	**60**	**0.496**	ug/L	0.018	3	10	853	3	KED
|	**Ni**	**62**	**0.490**	ug/L	0.010	2	5	139	2	KED
|	**Cu**	**63**	**2.114**	ug/L	0.021	0	62	10250	0	KED
|	**Cu**	**65**	**2.213**	ug/L	0.025	1	28	5409	1	KED
|	**Zn**	**66**	**88.156**	ug/L	0.440	0	36	53863	1	KED
|	**Zn**	**67**	**81.458**	ug/L	3.083	3	5	8192	3	KED
⌊	**As**	**75**	**1.497**	ug/L	0.088	5	2	447	6	KED
	Y	**89**		ug/L			295853	296378	2	Standard
	Kr	**83**		ug/L			47	53	17	Standard
⌈>	**In-1**	**115**		ug/L			9695	8921	1	KED
|	**Cd**	**111**	**0.089**	ug/L	0.013	14	4	31	12	KED
⌊	**Cd**	**114**	**0.096**	ug/L	0.013	13	1	77	11	KED
⌈>	**In**	**115**		ug/L			556386	533121	2	Standard
|	**Ba**	**135**	**12.916**	ug/L	0.539	4	32	83299	2	Standard
⌊	**Ba**	**137**	**13.364**	ug/L	0.415	3	57	152920	1	Standard
⌈>	**Tb**	**159**		ug/L			1335544	1335791	1	Standard
|	**Tl**	**205**	**0.004**	ug/L	0.000	9	200	532	6	Standard
⌊	**Pb**	**208**	**0.189**	ug/L	0.002	1	261	18927	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0146-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 23:32:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	66664	2	Standard
	Cl	37		ug/L			5454255	10548061	4	Standard
>	Sc	45		ug/L			519513	579618	2	Standard
	Na	23	S	ug/L	S	S	11324	S	S	Standard
	Mg	24	7943.100	ug/L	203.127	2	1933	241689770	2	Standard
	Al	27	12.754	ug/L	0.107	0	3025	352636	1	Standard
	Cr	52	1.018	ug/L	0.042	4	16933	40398	1	Standard
	Cr	53	9.194	ug/L	0.161	1	95	22516	1	Standard
	Fe	54	89.539	ug/L	1.983	2	79986	338717	2	Standard
	Fe	57	103.210	ug/L	1.288	1	17976	137473	3	Standard
	Mn	55	10.221	ug/L	0.366	3	367	356936	1	Standard
>	Ge	72		ug/L			42545	40671	0	KED
	Ni	60	0.799	ug/L	0.019	2	10	1406	1	KED
	Ni	62	0.747	ug/L	0.080	10	5	215	10	KED
	Cu	63	4.608	ug/L	0.033	0	62	22864	0	KED
	Cu	65	4.603	ug/L	0.146	3	28	11520	2	KED
	Zn	66	13.758	ug/L	0.018	0	36	8660	0	KED
	Zn	67	14.044	ug/L	0.898	6	5	1454	5	KED
	As	75	0.664	ug/L	0.026	3	2	205	3	KED
	Y	89		ug/L			295853	289858	2	Standard
	Kr	83		ug/L			47	40	24	Standard
>	In-1	115		ug/L			9695	9097	3	KED
	Cd	111	0.151	ug/L	0.021	13	4	51	13	KED
	Cd	114	0.164	ug/L	0.026	15	1	134	12	KED
>	In	115		ug/L			556386	530361	2	Standard
	Ba	135	16.849	ug/L	0.690	4	32	108079	1	Standard
	Ba	137	17.271	ug/L	0.807	4	57	196527	2	Standard
>	Tb	159		ug/L			1335544	1328133	1	Standard
	Tl	205	0.001	ug/L	0.000	33	200	300	9	Standard
	Pb	208	0.113	ug/L	0.003	2	261	11301	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0146-04
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 23:37:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	62707	2	Standard
	Cl	37		ug/L			5454255	5900849	2	Standard
>	Sc	45		ug/L			519513	556612	2	Standard
	Na	23	**11589.719**	ug/L	184.101	1	11324	255996095	0	Standard
	Mg	24	**1037.816**	ug/L	11.148	1	1933	30334446	2	Standard
	Al	27	**46.278**	ug/L	0.255	0	3025	1220328	1	Standard
	Cr	52	**0.614**	ug/L	0.053	8	16933	30593	1	Standard
	Cr	53	**1.252**	ug/L	0.046	3	95	3031	1	Standard
	Fe	54	**171.639**	ug/L	1.209	0	79986	544996	1	Standard
	Fe	57	**174.692**	ug/L	6.493	3	17976	209999	2	Standard
	Mn	55	**19.320**	ug/L	0.529	2	367	647715	0	Standard
>	Ge	72		ug/L			42545	42782	0	KED
	Ni	60	**0.599**	ug/L	0.022	3	10	1111	4	KED
	Ni	62	**0.566**	ug/L	0.090	15	5	172	15	KED
	Cu	63	**2.544**	ug/L	0.062	2	62	13307	1	KED
	Cu	65	**2.622**	ug/L	0.026	1	28	6917	1	KED
	Zn	66	**70.102**	ug/L	0.886	1	36	46267	0	KED
	Zn	67	**67.319**	ug/L	1.173	1	5	7315	2	KED
	As	75	**0.829**	ug/L	0.048	5	2	268	5	KED
	Y	89		ug/L			295853	297946	1	Standard
	Kr	83		ug/L			47	45	12	Standard
>	In-1	115		ug/L			9695	9498	1	KED
	Cd	111	**0.072**	ug/L	0.006	8	4	27	7	KED
	Cd	114	**0.068**	ug/L	0.022	32	1	59	31	KED
>	In	115		ug/L			556386	549892	2	Standard
	Ba	135	**19.744**	ug/L	0.357	1	32	131382	2	Standard
	Ba	137	**19.971**	ug/L	0.235	1	57	235766	1	Standard
>	Tb	159		ug/L			1335544	1364607	0	Standard
	Tl	205	**0.002**	ug/L	0.000	13	200	380	6	Standard
	Pb	208	**0.356**	ug/L	0.008	2	261	36066	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0146-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 23:42:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	65405	6	Standard
	Cl	37		ug/L			5454255	11045111	4	Standard
>	Sc	45		ug/L			519513	568877	1	Standard
	Na	23	S	ug/L	S	S	11324	S	S	Standard
	Mg	24	8703.808	ug/L	484.705	5	1933	259919101	5	Standard
	Al	27	40.015	ug/L	1.188	2	3025	1078914	3	Standard
	Cr	52	1.287	ug/L	0.062	4	16933	45224	1	Standard
	Cr	53	10.532	ug/L	0.285	2	95	25303	1	Standard
	Fe	54	215.386	ug/L	9.005	4	79986	676502	2	Standard
	Fe	57	231.746	ug/L	8.866	3	17976	278335	2	Standard
	Mn	55	12.842	ug/L	0.515	4	367	440222	3	Standard
>	Ge	72		ug/L			42545	40283	2	KED
	Ni	60	0.609	ug/L	0.027	4	10	1062	3	KED
	Ni	62	0.571	ug/L	0.054	9	5	163	8	KED
	Cu	63	5.931	ug/L	0.070	1	62	29139	3	KED
	Cu	65	6.006	ug/L	0.209	3	28	14876	1	KED
	Zn	66	16.153	ug/L	0.463	2	36	10065	3	KED
	Zn	67	16.209	ug/L	0.584	3	5	1661	1	KED
	As	75	0.835	ug/L	0.034	4	2	254	2	KED
	Y	89		ug/L			295853	286999	1	Standard
	Kr	83		ug/L			47	45	11	Standard
>	In-1	115		ug/L			9695	8818	1	KED
	Cd	111	0.213	ug/L	0.021	9	4	68	10	KED
	Cd	114	0.203	ug/L	0.028	13	1	160	14	KED
>	In	115		ug/L			556386	513931	1	Standard
	Ba	135	20.458	ug/L	0.014	0	32	127243	1	Standard
	Ba	137	21.099	ug/L	0.688	3	57	232739	1	Standard
>	Tb	159		ug/L			1335544	1319666	0	Standard
	Tl	205	0.001	ug/L	0.000	12	200	309	4	Standard
	Pb	208	0.332	ug/L	0.005	1	261	32627	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0146-03
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 23:46:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	56014	1	Standard
	Cl	37		ug/L			5454255	5817413	1	Standard
>	Sc	45		ug/L			519513	573181	2	Standard
	Na	23	11814.502	ug/L	202.851	1	11324	268782767	2	Standard
	Mg	24	1404.191	ug/L	6.619	0	1933	42261251	2	Standard
	Al	27	371.289	ug/L	1.433	0	3025	10058503	1	Standard
	Cr	52	1.331	ug/L	0.045	3	16933	46499	2	Standard
	Cr	53	2.129	ug/L	0.044	2	95	5240	3	Standard
	Fe	54	1229.486	ug/L	2.312	0	79986	3476289	1	Standard
	Fe	57	1100.929	ug/L	1.916	0	17976	1258216	2	Standard
	Mn	55	32.644	ug/L	1.049	3	367	1126658	1	Standard
>	Ge	72		ug/L			42545	41935	1	KED
	Ni	60	1.343	ug/L	0.049	3	10	2430	2	KED
	Ni	62	1.224	ug/L	0.118	9	5	360	7	KED
	Cu	63	14.706	ug/L	0.256	1	62	75096	0	KED
	Cu	65	14.606	ug/L	0.081	0	28	37640	2	KED
	Zn	66	81.502	ug/L	1.201	1	36	52713	0	KED
	Zn	67	77.473	ug/L	0.661	0	5	8250	0	KED
	As	75	1.064	ug/L	0.054	5	2	337	3	KED
	Y	89		ug/L			295853	309809	4	Standard
	Kr	83		ug/L			47	45	7	Standard
>	In-1	115		ug/L			9695	9047	1	KED
	Cd	111	0.112	ug/L	0.003	2	4	39	2	KED
	Cd	114	0.140	ug/L	0.040	28	1	115	29	KED
>	In	115		ug/L			556386	548727	1	Standard
	Ba	135	25.299	ug/L	0.472	1	32	167982	2	Standard
	Ba	137	25.345	ug/L	0.650	2	57	298587	2	Standard
>	Tb	159		ug/L			1335544	1343270	2	Standard
	Tl	205	0.004	ug/L	0.000	3	200	513	4	Standard
	Pb	208	1.224	ug/L	0.029	2	261	121520	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 23:51:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29982	31326	2	Standard
	Cl	**37**		ug/L			5454255	5434179	2	Standard
⌈>	**Sc**	**45**		ug/L			519513	510072	2	Standard
|	**Na**	**23**	**1.982**	ug/L	0.085	4	11324	51256	5	Standard
|	**Mg**	**24**	**0.102**	ug/L	0.009	8	1933	4636	6	Standard
|	**Al**	**27**	**0.015**	ug/L	0.002	10	3025	3339	2	Standard
|	**Cr**	**52**	**0.021**	ug/L	0.012	56	16933	17016	1	Standard
|	**Cr**	**53**	**0.130**	ug/L	0.012	9	95	372	7	Standard
|	**Fe**	**54**	**0.079**	ug/L	0.404	512	79986	78712	0	Standard
|	**Fe**	**57**	**-2.191**	ug/L	0.380	17	17976	15455	3	Standard
⌊	**Mn**	**55**	**0.004**	ug/L	0.001	16	367	473	3	Standard
⌈>	**Ge**	**72**		ug/L			42545	41651	3	KED
|	**Ni**	**60**	**0.006**	ug/L	0.004	75	10	20	35	KED
|	**Ni**	**62**	**0.005**	ug/L	0.005	93	5	6	17	KED
|	**Cu**	**63**	**0.002**	ug/L	0.003	120	62	74	22	KED
|	**Cu**	**65**	**0.001**	ug/L	0.005	915	28	29	43	KED
|	**Zn**	**66**	**-0.010**	ug/L	0.021	207	36	29	48	KED
|	**Zn**	**67**	**-0.017**	ug/L	0.001	6	5	3	0	KED
⌊	**As**	**75**	**0.000**	ug/L	0.005	2614	2	2	57	KED
	Y	**89**		ug/L			295853	278961	0	Standard
	Kr	**83**		ug/L			47	45	16	Standard
⌈>	**In-1**	**115**		ug/L			9695	9148	3	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.002	19	4	1	34	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.000	6	1	5	2	KED
⌈>	**In**	**115**		ug/L			556386	536848	2	Standard
|	**Ba**	**135**	**0.003**	ug/L	0.003	103	32	49	40	Standard
⌊	**Ba**	**137**	**0.002**	ug/L	0.002	78	57	78	22	Standard
⌈>	**Tb**	**159**		ug/L			1335544	1304769	2	Standard
|	**Tl**	**205**	**-0.000**	ug/L	0.000	6	200	161	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	11	261	379	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, April 26, 2023 23:56:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29982	31048	4	Standard
	Cl	**37**		ug/L			5454255	6032945	3	Standard
⌈>	**Sc**	**45**		ug/L			519513	530686	0	Standard
|	**Na**	**23**	**4778.028**	ug/L	104.542	2	11324	100646236	2	Standard
|	**Mg**	**24**	**4823.459**	ug/L	129.653	2	1933	134386908	2	Standard
|	**Al**	**27**	**4877.608**	ug/L	57.418	1	3025	122309652	1	Standard
|	**Cr**	**52**	**50.453**	ug/L	0.812	1	16933	993275	0	Standard
|	**Cr**	**53**	**50.728**	ug/L	1.004	1	95	113330	1	Standard
|	**Fe**	**54**	**4721.451**	ug/L	32.783	0	79986	12127605	0	Standard
|	**Fe**	**57**	**4743.913**	ug/L	105.700	2	17976	4958551	1	Standard
⌊	**Mn**	**55**	**45.520**	ug/L	0.706	1	367	1454927	0	Standard
⌈>	**Ge**	**72**		ug/L			42545	41982	1	KED
|	**Ni**	**60**	**47.619**	ug/L	1.137	2	10	85923	1	KED
|	**Ni**	**62**	**47.544**	ug/L	1.673	3	5	13816	2	KED
|	**Cu**	**63**	**48.154**	ug/L	1.432	2	62	246048	2	KED
|	**Cu**	**65**	**48.520**	ug/L	0.863	1	28	125083	0	KED
|	**Zn**	**66**	**48.927**	ug/L	1.888	3	36	31689	2	KED
|	**Zn**	**67**	**50.627**	ug/L	2.761	5	5	5397	4	KED
⌊	**As**	**75**	**50.136**	ug/L	1.082	2	2	15812	1	KED
	Y	**89**		ug/L			295853	291536	2	Standard
	Kr	**83**		ug/L			47	52	12	Standard
⌈>	**In-1**	**115**		ug/L			9695	9028	2	KED
|	**Cd**	**111**	**50.041**	ug/L	1.043	2	4	15568	0	KED
⌊	**Cd**	**114**	**49.701**	ug/L	1.011	2	1	39919	2	KED
⌈>	**In**	**115**		ug/L			556386	524263	0	Standard
|	**Ba**	**135**	**52.266**	ug/L	1.697	3	32	331515	2	Standard
⌊	**Ba**	**137**	**52.982**	ug/L	1.339	2	57	596317	2	Standard
⌈>	**Tb**	**159**		ug/L			1335544	1310129	2	Standard
|	**Tl**	**205**	**49.399**	ug/L	1.770	3	200	3814528	1	Standard
⌊	**Pb**	**208**	**48.068**	ug/L	1.187	2	261	4644949	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 00:03:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29982	30715	2	Standard
	Cl	**37**		ug/L			5454255	5746227	1	Standard
⌈>	**Sc**	**45**		ug/L			519513	516896	0	Standard
|	**Na**	**23**	**0.728**	ug/L	0.014	1	11324	26208	1	Standard
|	**Mg**	**24**	**0.039**	ug/L	0.004	10	1933	2981	3	Standard
|	**Al**	**27**	**0.035**	ug/L	0.003	7	3025	3862	1	Standard
|	**Cr**	**52**	**0.049**	ug/L	0.019	38	16933	17778	1	Standard
|	**Cr**	**53**	**0.048**	ug/L	0.005	11	95	199	6	Standard
|	**Fe**	**54**	**-1.513**	ug/L	0.975	64	79986	75811	2	Standard
|	**Fe**	**57**	**2.521**	ug/L	0.153	6	17976	20442	0	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.001	80	367	419	10	Standard
⌈>	**Ge**	**72**		ug/L			42545	41896	0	KED
|	**Ni**	**60**	**0.008**	ug/L	0.003	32	10	24	19	KED
|	**Ni**	**62**	**0.005**	ug/L	0.014	295	5	6	62	KED
|	**Cu**	**63**	**0.001**	ug/L	0.001	156	62	65	8	KED
|	**Cu**	**65**	**0.002**	ug/L	0.001	81	28	32	10	KED
|	**Zn**	**66**	**0.034**	ug/L	0.014	40	36	57	14	KED
|	**Zn**	**67**	**0.090**	ug/L	0.035	39	5	15	25	KED
⌊	**As**	**75**	**0.002**	ug/L	0.002	144	2	3	24	KED
	Y	**89**		ug/L			295853	281481	1	Standard
	Kr	**83**		ug/L			47	47	28	Standard
⌈>	**In-1**	**115**		ug/L			9695	9656	0	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.006	311	4	3	50	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.003	329	1	1	180	KED
⌈>	**In**	**115**		ug/L			556386	531396	1	Standard
|	**Ba**	**135**	**0.003**	ug/L	0.002	52	32	52	20	Standard
⌊	**Ba**	**137**	**0.002**	ug/L	0.001	22	57	82	6	Standard
⌈>	**Tb**	**159**		ug/L			1335544	1308350	0	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.000	16	200	341	6	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	33	261	369	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0658-06
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 00:08:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29982	47115	2	Standard
	Cl	**37**		ug/L			5454255	5675449	2	Standard
⌈>	**Sc**	**45**		ug/L			519513	528570	0	Standard
|	**Na**	**23**	**34.899**	ug/L	1.730	4	11324	743755	5	Standard
|	**Mg**	**24**	**1.286**	ug/L	0.292	22	1933	37666	21	Standard
|	**Al**	**27**	**1.841**	ug/L	0.221	12	3025	49071	11	Standard
|	**Cr**	**52**	**0.260**	ug/L	0.016	6	16933	22247	0	Standard
|	**Cr**	**53**	**0.225**	ug/L	0.022	9	95	597	7	Standard
|	**Fe**	**54**	**5.366**	ug/L	0.296	5	79986	95015	0	Standard
|	**Fe**	**57**	**4.956**	ug/L	0.599	12	17976	23430	2	Standard
⌊	**Mn**	**55**	**0.090**	ug/L	0.003	3	367	3250	3	Standard
⌈>	**Ge**	**72**		ug/L			42545	42354	0	KED
|	**Ni**	**60**	**0.036**	ug/L	0.011	30	10	74	26	KED
|	**Ni**	**62**	**0.041**	ug/L	0.012	28	5	17	19	KED
|	**Cu**	**63**	**0.065**	ug/L	0.013	19	62	398	17	KED
|	**Cu**	**65**	**0.063**	ug/L	0.012	19	28	192	17	KED
|	**Zn**	**66**	**0.561**	ug/L	0.030	5	36	402	4	KED
|	**Zn**	**67**	**0.608**	ug/L	0.054	8	5	71	8	KED
⌊	**As**	**75**	**0.002**	ug/L	0.002	114	2	3	18	KED
	Y	**89**		ug/L			295853	288415	0	Standard
	Kr	**83**		ug/L			47	50	13	Standard
⌈>	**In-1**	**115**		ug/L			9695	9464	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.004	140	4	3	31	KED
⌊	**Cd**	**114**	**0.010**	ug/L	0.009	87	1	10	70	KED
⌈>	**In**	**115**		ug/L			556386	524685	1	Standard
|	**Ba**	**135**	**0.085**	ug/L	0.002	2	32	568	2	Standard
⌊	**Ba**	**137**	**0.088**	ug/L	0.005	6	57	1039	4	Standard
⌈>	**Tb**	**159**		ug/L			1335544	1320605	1	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.003	128	200	350	55	Standard
⌊	**Pb**	**208**	**0.014**	ug/L	0.002	17	261	1636	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0134-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 00:13:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	54212	3	Standard
	Cl	37		ug/L			5454255	5874430	3	Standard
>	Sc	45		ug/L			519513	562563	0	Standard
	Na	23	6410.623	ug/L	320.406	4	11324	143115758	4	Standard
	Mg	24	2195.045	ug/L	67.183	3	1933	64828864	2	Standard
	Al	27	19.101	ug/L	0.454	2	3025	510955	1	Standard
	Cr	52	0.312	ug/L	0.036	11	16933	24736	2	Standard
	Cr	53	0.699	ug/L	0.022	3	95	1757	2	Standard
	Fe	54	865.915	ug/L	29.983	3	79986	2428331	2	Standard
	Fe	57	762.789	ug/L	22.370	2	17976	861456	2	Standard
	Mn	55	209.297	ug/L	6.348	3	367	7089569	2	Standard
>	Ge	72		ug/L			42545	42159	1	KED
	Ni	60	0.410	ug/L	0.024	5	10	753	7	KED
	Ni	62	0.451	ug/L	0.039	8	5	136	7	KED
	Cu	63	1.749	ug/L	0.022	1	62	9033	1	KED
	Cu	65	1.783	ug/L	0.027	1	28	4643	2	KED
	Zn	66	5.127	ug/L	0.118	2	36	3367	1	KED
	Zn	67	5.147	ug/L	0.266	5	5	556	4	KED
	As	75	1.635	ug/L	0.045	2	2	520	1	KED
	Y	89		ug/L			295853	305169	1	Standard
	Kr	83		ug/L			47	64	10	Standard
>	In-1	115		ug/L			9695	9350	0	KED
	Cd	111	0.006	ug/L	0.008	116	4	6	37	KED
	Cd	114	0.016	ug/L	0.005	30	1	15	26	KED
>	In	115		ug/L			556386	531273	2	Standard
	Ba	135	3.385	ug/L	0.023	0	32	21789	1	Standard
	Ba	137	3.469	ug/L	0.021	0	57	39614	2	Standard
>	Tb	159		ug/L			1335544	1331893	0	Standard
	Tl	205	0.005	ug/L	0.001	14	200	574	10	Standard
	Pb	208	0.065	ug/L	0.001	1	261	6612	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0134-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 00:18:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	52365	1	Standard
	Cl	37		ug/L			5454255	5828833	2	Standard
>	Sc	45		ug/L			519513	548340	6	Standard
	Na	23	7072.480	ug/L	358.514	5	11324	153605785	1	Standard
	Mg	24	2488.910	ug/L	103.492	4	1933	71548762	3	Standard
	Al	27	60.952	ug/L	3.519	5	3025	1578816	2	Standard
	Cr	52	0.568	ug/L	0.063	11	16933	29181	2	Standard
	Cr	53	0.920	ug/L	0.047	5	95	2218	2	Standard
	Fe	54	1712.393	ug/L	88.870	5	79986	4589500	2	Standard
	Fe	57	1581.971	ug/L	81.686	5	17976	1718217	3	Standard
	Mn	55	236.825	ug/L	9.314	3	367	7808319	3	Standard
>	Ge	72		ug/L			42545	42301	2	KED
	Ni	60	0.501	ug/L	0.033	6	10	920	5	KED
	Ni	62	0.534	ug/L	0.044	8	5	161	6	KED
	Cu	63	2.130	ug/L	0.032	1	62	11025	1	KED
	Cu	65	2.142	ug/L	0.034	1	28	5590	0	KED
	Zn	66	5.881	ug/L	0.029	0	36	3871	1	KED
	Zn	67	5.897	ug/L	0.231	3	5	638	4	KED
	As	75	2.421	ug/L	0.091	3	2	771	1	KED
	Y	89		ug/L			295853	295391	4	Standard
	Kr	83		ug/L			47	62	16	Standard
>	In-1	115		ug/L			9695	9095	1	KED
	Cd	111	0.003	ug/L	0.002	69	4	5	10	KED
	Cd	114	0.009	ug/L	0.002	27	1	9	21	KED
>	In	115		ug/L			556386	522091	9	Standard
	Ba	135	4.831	ug/L	0.504	10	32	30338	0	Standard
	Ba	137	5.016	ug/L	0.401	8	57	55981	2	Standard
>	Tb	159		ug/L			1335544	1289790	6	Standard
	Tl	205	0.006	ug/L	0.000	4	200	612	7	Standard
	Pb	208	0.112	ug/L	0.006	4	261	10877	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0184-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 00:22:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	55110	1	Standard
	Cl	37		ug/L			5454255	5555317	2	Standard
>	Sc	45		ug/L			519513	536547	4	Standard
	Na	23	117.504	ug/L	7.543	6	11324	2509699	2	Standard
	Mg	24	89.453	ug/L	5.873	6	1933	2517698	2	Standard
	Al	27	16.205	ug/L	0.437	2	3025	413662	1	Standard
	Cr	52	0.471	ug/L	0.094	19	16933	26661	2	Standard
	Cr	53	0.434	ug/L	0.029	6	95	1075	2	Standard
	Fe	54	21.375	ug/L	3.200	14	79986	137527	1	Standard
	Fe	57	16.248	ug/L	1.104	6	17976	35655	3	Standard
	Mn	55	1.155	ug/L	0.058	5	367	37637	0	Standard
>	Ge	72		ug/L			42545	42889	1	KED
	Ni	60	0.227	ug/L	0.011	4	10	427	3	KED
	Ni	62	0.229	ug/L	0.031	13	5	73	12	KED
	Cu	63	1.331	ug/L	0.044	3	62	7006	1	KED
	Cu	65	1.385	ug/L	0.016	1	28	3677	2	KED
	Zn	66	23.395	ug/L	0.046	0	36	15504	1	KED
	Zn	67	21.691	ug/L	0.421	1	5	2366	1	KED
	As	75	0.165	ug/L	0.017	10	2	55	8	KED
	Y	89		ug/L			295853	293185	2	Standard
	Kr	83		ug/L			47	40	8	Standard
>	In-1	115		ug/L			9695	9511	0	KED
	Cd	111	0.039	ug/L	0.006	15	4	17	11	KED
	Cd	114	0.029	ug/L	0.006	21	1	26	19	KED
>	In	115		ug/L			556386	557902	3	Standard
	Ba	135	5.593	ug/L	0.279	4	32	37745	2	Standard
	Ba	137	5.793	ug/L	0.290	5	57	69361	2	Standard
>	Tb	159		ug/L			1335544	1356014	2	Standard
	Tl	205	-0.000	ug/L	0.000	437	200	199	9	Standard
	Pb	208	2.019	ug/L	0.044	2	261	202201	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0184-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 00:27:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	57555	1	Standard
	Cl	37		ug/L			5454255	5553725	3	Standard
>	Sc	45		ug/L			519513	538635	1	Standard
	Na	23	663.834	ug/L	32.041	4	11324	14197607	3	Standard
	Mg	24	311.334	ug/L	9.241	2	1933	8803724	1	Standard
	Al	27	214.248	ug/L	7.727	3	3025	5454173	2	Standard
	Cr	52	1.820	ug/L	0.055	3	16933	53274	0	Standard
	Cr	53	1.852	ug/L	0.099	5	95	4293	3	Standard
	Fe	54	236.270	ug/L	11.210	4	79986	694413	2	Standard
	Fe	57	230.607	ug/L	8.466	3	17976	262301	2	Standard
	Mn	55	6.212	ug/L	0.029	0	367	201869	1	Standard
>	Ge	72		ug/L			42545	42651	1	KED
	Ni	60	0.680	ug/L	0.023	3	10	1257	4	KED
	Ni	62	0.662	ug/L	0.066	9	5	200	11	KED
	Cu	63	2.856	ug/L	0.027	0	62	14883	0	KED
	Cu	65	2.875	ug/L	0.050	1	28	7556	0	KED
	Zn	66	47.044	ug/L	0.647	1	36	30964	0	KED
	Zn	67	44.449	ug/L	1.093	2	5	4816	1	KED
	As	75	0.531	ug/L	0.004	0	2	172	1	KED
	Y	89		ug/L			295853	296343	1	Standard
	Kr	83		ug/L			47	43	9	Standard
>	In-1	115		ug/L			9695	9560	1	KED
	Cd	111	0.072	ug/L	0.015	20	4	28	18	KED
	Cd	114	0.078	ug/L	0.005	6	1	68	5	KED
>	In	115		ug/L			556386	546416	2	Standard
	Ba	135	14.345	ug/L	0.198	1	32	94865	2	Standard
	Ba	137	14.337	ug/L	0.351	2	57	168175	1	Standard
>	Tb	159		ug/L			1335544	1348697	2	Standard
	Tl	205	0.001	ug/L	0.000	25	200	318	10	Standard
	Pb	208	14.857	ug/L	0.257	1	261	1478398	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0124-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 00:32:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	67621	2	Standard
	Cl	37		ug/L			5454255	5810920	3	Standard
>	Sc	45		ug/L			519513	563282	1	Standard
	Na	23	5584.870	ug/L	168.775	3	11324	124838858	1	Standard
	Mg	24	261.917	ug/L	4.607	1	1933	7746925	0	Standard
	Al	27	42.770	ug/L	1.765	4	3025	1141478	3	Standard
	Cr	52	2.811	ug/L	0.126	4	16933	76063	2	Standard
	Cr	53	2.877	ug/L	0.070	2	95	6917	1	Standard
	Fe	54	10.201	ug/L	0.662	6	79986	114335	0	Standard
	Fe	57	32.991	ug/L	0.218	0	17976	55958	1	Standard
	Mn	55	0.922	ug/L	0.029	3	367	31657	2	Standard
>	Ge	72		ug/L			42545	42525	0	KED
	Ni	60	0.796	ug/L	0.023	2	10	1464	2	KED
	Ni	62	0.891	ug/L	0.080	8	5	267	8	KED
	Cu	63	23.996	ug/L	0.401	1	62	124236	1	KED
	Cu	65	24.404	ug/L	0.256	1	28	63748	0	KED
	Zn	66	17.408	ug/L	0.184	1	36	11448	1	KED
	Zn	67	17.771	ug/L	0.555	3	5	1923	2	KED
	As	75	0.807	ug/L	0.031	3	2	260	4	KED
	Y	89		ug/L			295853	292686	2	Standard
	Kr	83		ug/L			47	47	31	Standard
>	In-1	115		ug/L			9695	9399	1	KED
	Cd	111	-0.002	ug/L	0.003	178	4	3	25	KED
	Cd	114	0.007	ug/L	0.004	58	1	7	43	KED
>	In	115		ug/L			556386	532037	2	Standard
	Ba	135	19.565	ug/L	0.625	3	32	125914	1	Standard
	Ba	137	19.728	ug/L	0.638	3	57	225262	1	Standard
>	Tb	159		ug/L			1335544	1327471	0	Standard
	Tl	205	0.001	ug/L	0.001	69	200	259	16	Standard
	Pb	208	0.019	ug/L	0.002	10	261	2124	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0124-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 00:37:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	79817	5	Standard
	Cl	37		ug/L			5454255	6245196	2	Standard
>	Sc	45		ug/L			519513	565642	2	Standard
	Na	23	8082.535	ug/L	220.527	2	11324	181390747	0	Standard
	Mg	24	324.831	ug/L	13.121	4	1933	9643810	2	Standard
	Al	27	44.640	ug/L	0.365	0	3025	1196239	1	Standard
	Cr	52	5.091	ug/L	0.079	1	16933	123413	2	Standard
	Cr	53	5.319	ug/L	0.105	1	95	12756	0	Standard
	Fe	54	10.921	ug/L	1.612	14	79986	116734	2	Standard
	Fe	57	48.521	ug/L	0.129	0	17976	73433	2	Standard
	Mn	55	1.438	ug/L	0.017	1	367	49382	2	Standard
>	Ge	72		ug/L			42545	38996	9	KED
	Ni	60	1.162	ug/L	0.104	8	10	1947	2	KED
	Ni	62	1.094	ug/L	0.138	12	5	297	3	KED
	Cu	63	25.826	ug/L	2.286	8	62	121951	0	KED
	Cu	65	25.876	ug/L	2.397	9	28	61638	1	KED
	Zn	66	222.958	ug/L	16.652	7	36	133447	2	KED
	Zn	67	208.273	ug/L	19.356	9	5	20499	0	KED
	As	75	1.016	ug/L	0.118	11	2	297	4	KED
	Y	89		ug/L			295853	287972	2	Standard
	Kr	83		ug/L			47	43	25	Standard
>	In-1	115		ug/L			9695	9394	1	KED
	Cd	111	-0.001	ug/L	0.017	2557	4	4	135	KED
	Cd	114	0.006	ug/L	0.003	43	1	6	30	KED
>	In	115		ug/L			556386	518435	3	Standard
	Ba	135	24.016	ug/L	0.867	3	32	150547	0	Standard
	Ba	137	24.940	ug/L	1.098	4	57	277330	1	Standard
>	Tb	159		ug/L			1335544	1329414	1	Standard
	Tl	205	0.002	ug/L	0.000	8	200	344	2	Standard
	Pb	208	0.018	ug/L	0.001	3	261	2044	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0510-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 00:41:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	80936	3	Standard
	Cl	37		ug/L			5454255	6223827	1	Standard
>	Sc	45		ug/L			519513	566726	1	Standard
	Na	23	7700.236	ug/L	120.564	1	11324	173193821	0	Standard
	Mg	24	321.216	ug/L	2.078	0	1933	9560091	1	Standard
	Al	27	43.387	ug/L	0.349	0	3025	1165160	1	Standard
	Cr	52	4.971	ug/L	0.088	1	16933	121184	2	Standard
	Cr	53	5.212	ug/L	0.111	2	95	12527	1	Standard
	Fe	54	10.302	ug/L	0.674	6	79986	115307	0	Standard
	Fe	57	46.285	ug/L	1.891	4	17976	71068	1	Standard
	Mn	55	1.251	ug/L	0.017	1	367	43077	1	Standard
>	Ge	72		ug/L			42545	41730	2	KED
	Ni	60	1.036	ug/L	0.025	2	10	1868	1	KED
	Ni	62	1.114	ug/L	0.056	5	5	326	6	KED
	Cu	63	23.087	ug/L	0.201	0	62	117291	1	KED
	Cu	65	22.935	ug/L	0.522	2	28	58776	0	KED
	Zn	66	202.975	ug/L	5.062	2	36	130560	0	KED
	Zn	67	190.572	ug/L	5.681	2	5	20180	1	KED
	As	75	0.930	ug/L	0.078	8	2	293	6	KED
	Y	89		ug/L			295853	286957	1	Standard
	Kr	83		ug/L			47	53	13	Standard
>	In-1	115		ug/L			9695	9328	0	KED
	Cd	111	0.007	ug/L	0.003	38	4	6	14	KED
	Cd	114	0.006	ug/L	0.003	52	1	6	38	KED
>	In	115		ug/L			556386	521285	0	Standard
	Ba	135	22.976	ug/L	0.343	1	32	144932	0	Standard
	Ba	137	23.512	ug/L	0.455	1	57	263134	1	Standard
>	Tb	159		ug/L			1335544	1326146	1	Standard
	Tl	205	0.002	ug/L	0.000	21	200	322	8	Standard
	Pb	208	0.023	ug/L	0.001	2	261	2483	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0510-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 00:46:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	78719	2	Standard
	Cl	37		ug/L			5454255	6312585	3	Standard
>	Sc	45		ug/L			519513	554631	3	Standard
	Na	23	7928.927	ug/L	103.257	1	11324	174505578	2	Standard
	Mg	24	335.727	ug/L	18.585	5	1933	9771717	4	Standard
	Al	27	55.618	ug/L	1.725	3	3025	1459856	0	Standard
	Cr	52	31.501	ug/L	0.980	3	16933	654569	1	Standard
	Cr	53	32.272	ug/L	1.116	3	95	75351	2	Standard
	Fe	54	12.879	ug/L	1.040	8	79986	119680	1	Standard
	Fe	57	51.530	ug/L	3.232	6	17976	75218	3	Standard
	Mn	55	25.288	ug/L	0.764	3	367	844447	0	Standard
>	Ge	72		ug/L			42545	41909	0	KED
	Ni	60	26.668	ug/L	0.315	1	10	48048	1	KED
	Ni	62	27.238	ug/L	0.197	0	5	7906	0	KED
	Cu	63	49.606	ug/L	1.232	2	62	253043	2	KED
	Cu	65	50.378	ug/L	0.639	1	28	129663	0	KED
	Zn	66	294.194	ug/L	6.353	2	36	190088	1	KED
	Zn	67	274.652	ug/L	2.969	1	5	29217	0	KED
	As	75	28.107	ug/L	0.225	0	2	8851	0	KED
	Y	89		ug/L			295853	290248	2	Standard
	Kr	83		ug/L			47	53	22	Standard
>	In-1	115		ug/L			9695	9369	3	KED
	Cd	111	25.428	ug/L	0.767	3	4	8209	0	KED
	Cd	114	25.557	ug/L	0.842	3	1	21292	0	KED
>	In	115		ug/L			556386	526410	2	Standard
	Ba	135	51.483	ug/L	3.023	5	32	327597	3	Standard
	Ba	137	53.592	ug/L	1.737	3	57	605336	1	Standard
>	Tb	159		ug/L			1335544	1328711	1	Standard
	Tl	205	23.402	ug/L	0.514	2	200	1833423	1	Standard
	Pb	208	23.852	ug/L	0.459	1	261	2338131	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 00:51:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29982	32521	3	Standard
	Cl	**37**		ug/L			5454255	6318383	2	Standard
⌈>	**Sc**	**45**		ug/L			519513	527715	0	Standard
|	**Na**	**23**	**0.441**	ug/L	0.020	4	11324	20738	1	Standard
|	**Mg**	**24**	**0.010**	ug/L	0.003	29	1933	2250	3	Standard
|	**Al**	**27**	**0.014**	ug/L	0.006	39	3025	3428	3	Standard
|	**Cr**	**52**	**0.041**	ug/L	0.028	67	16933	17986	2	Standard
|	**Cr**	**53**	**0.027**	ug/L	0.004	14	95	155	5	Standard
|	**Fe**	**54**	**-0.132**	ug/L	0.246	186	79986	80911	0	Standard
|	**Fe**	**57**	**-1.207**	ug/L	0.622	51	17976	17010	3	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.000	9	367	448	1	Standard
⌈>	**Ge**	**72**		ug/L			42545	42347	1	KED
|	**Ni**	**60**	**0.009**	ug/L	0.006	70	10	26	42	KED
|	**Ni**	**62**	**-0.002**	ug/L	0.007	344	5	4	49	KED
|	**Cu**	**63**	**0.000**	ug/L	0.002	531	62	64	12	KED
|	**Cu**	**65**	**0.001**	ug/L	0.001	104	28	30	6	KED
|	**Zn**	**66**	**0.037**	ug/L	0.016	43	36	60	16	KED
|	**Zn**	**67**	**0.018**	ug/L	0.031	170	5	7	43	KED
⌊	**As**	**75**	**0.005**	ug/L	0.002	41	2	3	13	KED
	Y	**89**		ug/L			295853	276525	2	Standard
	Kr	**83**		ug/L			47	36	22	Standard
⌈>	**In-1**	**115**		ug/L			9695	9359	0	KED
|	**Cd**	**111**	**0.001**	ug/L	0.005	349	4	4	34	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.004	187	1	3	92	KED
⌈>	**In**	**115**		ug/L			556386	510631	1	Standard
|	**Ba**	**135**	**0.001**	ug/L	0.001	77	32	36	15	Standard
⌊	**Ba**	**137**	**0.002**	ug/L	0.001	34	57	71	8	Standard
⌈>	**Tb**	**159**		ug/L			1335544	1319022	0	Standard
|	**Tl**	**205**	**-0.000**	ug/L	0.000	67	200	179	6	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	4	261	428	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 00:56:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29982	31390	2	Standard
	Cl	**37**		ug/L			5454255	6128100	1	Standard
⌈>	**Sc**	**45**		ug/L			519513	538170	0	Standard
|	**Na**	**23**	**4777.761**	ug/L	118.613	2	11324	102070209	3	Standard
|	**Mg**	**24**	**4779.972**	ug/L	63.921	1	1933	135063378	1	Standard
|	**Al**	**27**	**4964.581**	ug/L	134.472	2	3025	126240406	2	Standard
|	**Cr**	**52**	**50.273**	ug/L	0.815	1	16933	1003855	2	Standard
|	**Cr**	**53**	**50.112**	ug/L	1.514	3	95	113527	2	Standard
|	**Fe**	**54**	**4632.521**	ug/L	34.616	0	79986	12068412	0	Standard
|	**Fe**	**57**	**4763.897**	ug/L	77.064	1	17976	5049800	1	Standard
⌊	**Mn**	**55**	**46.220**	ug/L	0.609	1	367	1498166	0	Standard
⌈>	**Ge**	**72**		ug/L			42545	42445	2	KED
|	**Ni**	**60**	**48.389**	ug/L	2.260	4	10	88220	2	KED
|	**Ni**	**62**	**47.917**	ug/L	2.016	4	5	14072	1	KED
|	**Cu**	**63**	**48.527**	ug/L	1.372	2	62	250614	1	KED
|	**Cu**	**65**	**48.739**	ug/L	1.409	2	28	126995	1	KED
|	**Zn**	**66**	**50.007**	ug/L	0.932	1	36	32746	1	KED
|	**Zn**	**67**	**51.515**	ug/L	1.782	3	5	5551	0	KED
⌊	**As**	**75**	**50.870**	ug/L	1.383	2	2	16217	1	KED
	Y	**89**		ug/L			295853	288906	1	Standard
	Kr	**83**		ug/L			47	46	17	Standard
⌈>	**In-1**	**115**		ug/L			9695	9567	0	KED
|	**Cd**	**111**	**48.188**	ug/L	0.378	0	4	15891	0	KED
⌊	**Cd**	**114**	**47.286**	ug/L	0.773	1	1	40252	1	KED
⌈>	**In**	**115**		ug/L			556386	513472	2	Standard
|	**Ba**	**135**	**52.068**	ug/L	0.590	1	32	323474	1	Standard
⌊	**Ba**	**137**	**53.682**	ug/L	0.369	0	57	591747	1	Standard
⌈>	**Tb**	**159**		ug/L			1335544	1316299	0	Standard
|	**Tl**	**205**	**48.797**	ug/L	1.249	2	200	3787640	2	Standard
⌊	**Pb**	**208**	**47.570**	ug/L	0.574	1	261	4619962	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 01:03:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29982	30685	3	Standard
	Cl	**37**		ug/L			5454255	5915562	2	Standard
⌈>	**Sc**	**45**		ug/L			519513	521749	0	Standard
|	**Na**	**23**	**0.367**	ug/L	0.188	51	11324	18966	20	Standard
|	**Mg**	**24**	**0.135**	ug/L	0.180	133	1933	5643	87	Standard
|	**Al**	**27**	**0.125**	ug/L	0.163	130	3025	6115	65	Standard
|	**Cr**	**52**	**0.068**	ug/L	0.011	16	16933	18303	1	Standard
|	**Cr**	**53**	**0.015**	ug/L	0.007	42	95	129	10	Standard
|	**Fe**	**54**	**-0.591**	ug/L	0.292	49	79986	78847	1	Standard
|	**Fe**	**57**	**1.288**	ug/L	0.536	41	17976	19372	2	Standard
⌊	**Mn**	**55**	**0.004**	ug/L	0.002	54	367	482	12	Standard
⌈>	**Ge**	**72**		ug/L			42545	43475	0	KED
|	**Ni**	**60**	**0.006**	ug/L	0.002	25	10	22	13	KED
|	**Ni**	**62**	**0.010**	ug/L	0.007	72	5	8	26	KED
|	**Cu**	**63**	**0.001**	ug/L	0.002	213	62	68	13	KED
|	**Cu**	**65**	**0.002**	ug/L	0.004	169	28	35	30	KED
|	**Zn**	**66**	**0.044**	ug/L	0.015	33	36	66	15	KED
|	**Zn**	**67**	**0.011**	ug/L	0.036	346	5	6	56	KED
⌊	**As**	**75**	**0.001**	ug/L	0.002	126	2	3	18	KED
	Y	**89**		ug/L			295853	282956	1	Standard
	Kr	**83**		ug/L			47	39	27	Standard
⌈>	**In-1**	**115**		ug/L			9695	9887	3	KED
|	**Cd**	**111**	**0.002**	ug/L	0.002	117	4	5	10	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.002	1086	1	1	112	KED
⌈>	**In**	**115**		ug/L			556386	518434	1	Standard
|	**Ba**	**135**	**0.005**	ug/L	0.003	59	32	62	29	Standard
⌊	**Ba**	**137**	**0.007**	ug/L	0.003	51	57	126	28	Standard
⌈>	**Tb**	**159**		ug/L			1335544	1310256	2	Standard
|	**Tl**	**205**	**0.003**	ug/L	0.002	76	200	412	40	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.002	92	261	483	43	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0168-BS2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 01:08:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	44383	1	Standard
	Cl	37		ug/L			5454255	5936564	2	Standard
>	Sc	45		ug/L			519513	530402	0	Standard
	Na	23	**0.685**	ug/L	0.022	3	11324	25970	1	Standard
	Mg	24	**0.111**	ug/L	0.005	4	1933	5068	2	Standard
	Al	27	**0.452**	ug/L	0.005	1	3025	14411	1	Standard
	Cr	52	**26.437**	ug/L	0.511	1	16933	528416	1	Standard
	Cr	53	**26.749**	ug/L	0.334	1	95	59775	0	Standard
	Fe	54	**6.718**	ug/L	0.805	11	79986	98782	1	Standard
	Fe	57	**1.273**	ug/L	0.419	32	17976	19676	1	Standard
	Mn	55	**24.472**	ug/L	0.924	3	367	781825	2	Standard
>	Ge	72		ug/L			42545	43978	0	KED
	Ni	60	**24.827**	ug/L	0.639	2	10	46934	1	KED
	Ni	62	**24.697**	ug/L	0.577	2	5	7523	2	KED
	Cu	63	**25.790**	ug/L	0.058	0	62	138093	0	KED
	Cu	65	**25.863**	ug/L	0.527	2	28	69868	2	KED
	Zn	66	**77.977**	ug/L	2.452	3	36	52901	3	KED
	Zn	67	**73.663**	ug/L	2.006	2	5	8227	3	KED
	As	75	**24.955**	ug/L	0.225	0	2	8247	1	KED
	Y	89		ug/L			295853	289929	2	Standard
	Kr	83		ug/L			47	37	10	Standard
>	In-1	115		ug/L			9695	10011	0	KED
	Cd	111	**24.144**	ug/L	0.122	0	4	8334	1	KED
	Cd	114	**23.850**	ug/L	0.317	1	1	21246	1	KED
>	In	115		ug/L			556386	536952	2	Standard
	Ba	135	**26.892**	ug/L	0.204	0	32	174731	1	Standard
	Ba	137	**27.766**	ug/L	0.920	3	57	320114	3	Standard
>	Tb	159		ug/L			1335544	1340069	0	Standard
	Tl	205	**22.485**	ug/L	0.566	2	200	1776820	1	Standard
	Pb	208	**23.498**	ug/L	0.143	0	261	2323476	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0365-BS2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 01:13:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	38279	3	Standard
	Cl	37		ug/L			5454255	5859703	1	Standard
>	Sc	45		ug/L			519513	526861	0	Standard
	Na	23	0.448	ug/L	0.004	1	11324	20854	0	Standard
	Mg	24	0.131	ug/L	0.002	1	1933	5571	0	Standard
	Al	27	0.413	ug/L	0.005	1	3025	13359	1	Standard
	Cr	52	26.240	ug/L	0.272	1	16933	521126	0	Standard
	Cr	53	26.550	ug/L	0.132	0	95	58937	0	Standard
	Fe	54	6.391	ug/L	0.950	14	79986	97297	2	Standard
	Fe	57	1.255	ug/L	0.396	31	17976	19527	1	Standard
	Mn	55	24.052	ug/L	0.537	2	367	763344	1	Standard
>	Ge	72		ug/L			42545	42075	2	KED
	Ni	60	24.984	ug/L	0.703	2	10	45174	0	KED
	Ni	62	24.598	ug/L	0.857	3	5	7164	1	KED
	Cu	63	25.923	ug/L	0.531	2	62	132753	0	KED
	Cu	65	26.283	ug/L	0.750	2	28	67900	0	KED
	Zn	66	78.433	ug/L	0.792	1	36	50900	1	KED
	Zn	67	71.892	ug/L	1.331	1	5	7680	0	KED
	As	75	24.658	ug/L	0.453	1	2	7795	1	KED
	Y	89		ug/L			295853	292511	4	Standard
	Kr	83		ug/L			47	53	13	Standard
>	In-1	115		ug/L			9695	9576	2	KED
	Cd	111	24.012	ug/L	0.410	1	4	7926	1	KED
	Cd	114	23.543	ug/L	0.652	2	1	20054	1	KED
>	In	115		ug/L			556386	523453	1	Standard
	Ba	135	26.653	ug/L	0.300	1	32	168813	0	Standard
	Ba	137	28.134	ug/L	0.226	0	57	316169	0	Standard
>	Tb	159		ug/L			1335544	1317762	0	Standard
	Tl	205	22.447	ug/L	0.140	0	200	1744493	1	Standard
	Pb	208	23.077	ug/L	0.115	0	261	2243966	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0358-03
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, April 27, 2023 01:17:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29982	45208	4	Standard
	Cl	**37**		ug/L			5454255	5936401	2	Standard
⌈>	**Sc**	**45**		ug/L			519513	553588	1	Standard
|	**Na**	**23**	**S**	ug/L	S	S	11324	S	S	Standard
|	**Mg**	**24**	**8997.188**	ug/L	63.471	0	1933	261511397	1	Standard
|	**Al**	**27**	**41.511**	ug/L	0.696	1	3025	1089157	2	Standard
|	**Cr**	**52**	**2.562**	ug/L	0.034	1	16933	69755	1	Standard
|	**Cr**	**53**	**2.387**	ug/L	0.058	2	95	5658	1	Standard
|	**Fe**	**54**	**4.459**	ug/L	0.370	8	79986	97092	0	Standard
|	**Fe**	**57**	**29.266**	ug/L	1.223	4	17976	50960	3	Standard
⌊	**Mn**	**55**	**1.625**	ug/L	0.027	1	367	54569	1	Standard
⌈>	**Ge**	**72**		ug/L			42545	41518	1	KED
|	**Ni**	**60**	**0.178**	ug/L	0.019	10	10	326	11	KED
|	**Ni**	**62**	**0.184**	ug/L	0.021	11	5	57	11	KED
|	**Cu**	**63**	**1.052**	ug/L	0.017	1	62	5374	2	KED
|	**Cu**	**65**	**1.025**	ug/L	0.034	3	28	2640	3	KED
|	**Zn**	**66**	**0.804**	ug/L	0.077	9	36	549	9	KED
|	**Zn**	**67**	**0.712**	ug/L	0.031	4	5	80	3	KED
⌊	**As**	**75**	**0.039**	ug/L	0.014	36	2	14	30	KED
	Y	**89**		ug/L			295853	290716	0	Standard
	Kr	**83**		ug/L			47	39	2	Standard
⌈>	**In-1**	**115**		ug/L			9695	8973	2	KED
|	**Cd**	**111**	**0.004**	ug/L	0.005	110	4	5	26	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	259	1	2	104	KED
⌈>	**In**	**115**		ug/L			556386	550708	2	Standard
|	**Ba**	**135**	**0.392**	ug/L	0.029	7	32	2638	4	Standard
⌊	**Ba**	**137**	**0.394**	ug/L	0.010	2	57	4708	0	Standard
⌈>	**Tb**	**159**		ug/L			1335544	1358744	1	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.000	19	200	330	8	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.000	5	261	979	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0674-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, April 27, 2023 01:23:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	46157	2	Standard
	Cl	37		ug/L			5454255	5440127	2	Standard
>	Sc	45		ug/L			519513	559104	1	Standard
	Na	23	3267.732	ug/L	5.385	0	11324	72526004	1	Standard
	Mg	24	1415.678	ug/L	26.283	1	1933	41553319	1	Standard
	Al	27	912.558	ug/L	27.720	3	3025	24118725	4	Standard
	Cr	52	10.251	ug/L	0.080	0	16933	227145	0	Standard
	Cr	53	10.786	ug/L	0.236	2	95	25475	3	Standard
	Fe	54	1278.578	ug/L	29.536	2	79986	3523651	3	Standard
	Fe	57	1165.778	ug/L	14.786	1	17976	1298580	2	Standard
	Mn	55	44.966	ug/L	0.702	1	367	1514381	2	Standard
>	Ge	72		ug/L			42545	43141	1	KED
	Ni	60	3.748	ug/L	0.072	1	10	6959	0	KED
	Ni	62	3.890	ug/L	0.187	4	5	1167	5	KED
	Cu	63	28.416	ug/L	0.513	1	62	149232	1	KED
	Cu	65	28.109	ug/L	0.286	1	28	74490	1	KED
	Zn	66	54.802	ug/L	0.793	1	36	36478	0	KED
	Zn	67	51.348	ug/L	1.195	2	5	5627	2	KED
	As	75	0.865	ug/L	0.033	3	2	283	4	KED
	Y	89		ug/L			295853	339164	2	Standard
	Kr	83		ug/L			47	46	24	Standard
>	In-1	115		ug/L			9695	9469	0	KED
	Cd	111	0.146	ug/L	0.021	14	4	52	13	KED
	Cd	114	0.153	ug/L	0.021	13	1	130	13	KED
>	In	115		ug/L			556386	561633	1	Standard
	Ba	135	10.478	ug/L	0.444	4	32	71203	2	Standard
	Ba	137	10.614	ug/L	0.297	2	57	127988	1	Standard
>	Tb	159		ug/L			1335544	1360496	2	Standard
	Tl	205	0.007	ug/L	0.000	4	200	730	3	Standard
	Pb	208	10.607	ug/L	0.171	1	261	1064711	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0648-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, April 27, 2023 01:28:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29982	52055	2	Standard
	Cl	**37**		ug/L			5454255	5686828	4	Standard
>	**Sc**	**45**		ug/L			519513	610247	0	Standard
	Na	**23**	**15409.923**	ug/L	880.647	5	11324	373123767	4	Standard
	Mg	**24**	**9734.171**	ug/L	548.184	5	1933	311783503	4	Standard
	Al	**27**	**4.869**	ug/L	0.076	1	3025	143949	0	Standard
	Cr	**52**	**0.376**	ug/L	0.019	4	16933	28258	1	Standard
	Cr	**53**	**1.224**	ug/L	0.017	1	95	3253	2	Standard
	Fe	**54**	**193.526**	ug/L	3.715	1	79986	661675	0	Standard
	Fe	**57**	**216.083**	ug/L	3.705	1	17976	279864	0	Standard
	Mn	**55**	**195.223**	ug/L	5.173	2	367	7173367	1	Standard
>	**Ge**	**72**		ug/L			42545	40344	1	KED
	Ni	**60**	**2.798**	ug/L	0.075	2	10	4860	2	KED
	Ni	**62**	**2.937**	ug/L	0.260	8	5	825	9	KED
	Cu	**63**	**4.023**	ug/L	0.138	3	62	19805	2	KED
	Cu	**65**	**4.057**	ug/L	0.027	0	28	10079	2	KED
	Zn	**66**	**1.945**	ug/L	0.117	6	36	1243	5	KED
	Zn	**67**	**1.918**	ug/L	0.168	8	5	201	9	KED
	As	**75**	**0.701**	ug/L	0.020	2	2	214	1	KED
	Y	**89**		ug/L			295853	302339	3	Standard
	Kr	**83**		ug/L			47	61	15	Standard
>	**In-1**	**115**		ug/L			9695	9006	0	KED
	Cd	**111**	**0.020**	ug/L	0.019	92	4	10	56	KED
	Cd	**114**	**0.008**	ug/L	0.005	65	1	7	50	KED
>	**In**	**115**		ug/L			556386	538666	0	Standard
	Ba	**135**	**2.408**	ug/L	0.022	0	32	15726	1	Standard
	Ba	**137**	**2.457**	ug/L	0.036	1	57	28467	1	Standard
>	**Tb**	**159**		ug/L			1335544	1355013	0	Standard
	Tl	**205**	**0.009**	ug/L	0.000	0	200	927	1	Standard
	Pb	**208**	**0.052**	ug/L	0.001	2	261	5421	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0648-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, April 27, 2023 01:33:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29982	50602	5	Standard
	Cl	**37**		ug/L			5454255	5682785	1	Standard
⌈>	**Sc**	**45**		ug/L			519513	608513	1	Standard
|	**Na**	**23**	**15554.635**	ug/L	264.714	1	11324	375632324	1	Standard
|	**Mg**	**24**	**9936.187**	ug/L	145.816	1	1933	317397741	0	Standard
|	**Al**	**27**	**239.198**	ug/L	1.398	0	3025	6881590	2	Standard
|	**Cr**	**52**	**0.909**	ug/L	0.038	4	16933	39989	0	Standard
|	**Cr**	**53**	**1.795**	ug/L	0.056	3	95	4708	4	Standard
|	**Fe**	**54**	**304.585**	ug/L	3.847	1	79986	984742	1	Standard
|	**Fe**	**57**	**316.286**	ug/L	5.262	1	17976	398689	0	Standard
⌊	**Mn**	**55**	**194.516**	ug/L	2.799	1	367	7126887	0	Standard
⌈>	**Ge**	**72**		ug/L			42545	41032	0	KED
|	**Ni**	**60**	**2.935**	ug/L	0.134	4	10	5185	3	KED
|	**Ni**	**62**	**2.844**	ug/L	0.059	2	5	812	2	KED
|	**Cu**	**63**	**4.429**	ug/L	0.042	0	62	22179	1	KED
|	**Cu**	**65**	**4.492**	ug/L	0.026	0	28	11346	0	KED
|	**Zn**	**66**	**2.570**	ug/L	0.086	3	36	1660	2	KED
|	**Zn**	**67**	**2.600**	ug/L	0.127	4	5	276	4	KED
⌊	**As**	**75**	**0.704**	ug/L	0.038	5	2	219	6	KED
	Y	**89**		ug/L			295853	318385	3	Standard
	Kr	**83**		ug/L			47	67	13	Standard
⌈>	**In-1**	**115**		ug/L			9695	9201	1	KED
|	**Cd**	**111**	**0.012**	ug/L	0.004	37	4	7	18	KED
⌊	**Cd**	**114**	**0.009**	ug/L	0.009	104	1	9	84	KED
⌈>	**In**	**115**		ug/L			556386	536595	1	Standard
|	**Ba**	**135**	**3.455**	ug/L	0.065	1	32	22461	0	Standard
⌊	**Ba**	**137**	**3.564**	ug/L	0.111	3	57	41102	1	Standard
⌈>	**Tb**	**159**		ug/L			1335544	1370159	1	Standard
|	**Tl**	**205**	**0.010**	ug/L	0.000	2	200	992	3	Standard
⌊	**Pb**	**208**	**0.171**	ug/L	0.007	4	261	17553	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0208-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Thursday, April 27, 2023 01:38:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	43493	1	Standard
	Cl	37		ug/L			5454255	5510088	2	Standard
>	Sc	45		ug/L			519513	531587	0	Standard
	Na	23	3154.099	ug/L	88.379	2	11324	66550129	2	Standard
	Mg	24	761.906	ug/L	18.789	2	1933	21265702	2	Standard
	Al	27	758.777	ug/L	9.062	1	3025	19062624	1	Standard
	Cr	52	6.189	ug/L	0.170	2	16933	137271	2	Standard
	Cr	53	6.467	ug/L	0.031	0	95	14558	1	Standard
	Fe	54	3248.324	ug/L	90.171	2	79986	8382829	2	Standard
	Fe	57	3298.111	ug/L	27.147	0	17976	3458871	0	Standard
	Mn	55	77.471	ug/L	0.340	0	367	2480269	0	Standard
>	Ge	72		ug/L			42545	42622	0	KED
	Ni	60	8.039	ug/L	0.217	2	10	14737	2	KED
	Ni	62	8.305	ug/L	0.231	2	5	2455	3	KED
	Cu	63	49.774	ug/L	1.339	2	62	258196	1	KED
	Cu	65	49.552	ug/L	0.510	1	28	129709	1	KED
	Zn	66	471.597	ug/L	2.996	0	36	309886	0	KED
	Zn	67	440.027	ug/L	10.274	2	5	47597	1	KED
	As	75	0.805	ug/L	0.012	1	2	260	1	KED
	Y	89		ug/L			295853	308578	2	Standard
	Kr	83		ug/L			47	43	7	Standard
>	In-1	115		ug/L			9695	9325	0	KED
	Cd	111	0.940	ug/L	0.053	5	4	306	5	KED
	Cd	114	0.857	ug/L	0.042	4	1	712	4	KED
>	In	115		ug/L			556386	542819	2	Standard
	Ba	135	30.995	ug/L	0.682	2	32	203534	0	Standard
	Ba	137	31.171	ug/L	0.802	2	57	363150	1	Standard
>	Tb	159		ug/L			1335544	1334331	1	Standard
	Tl	205	0.006	ug/L	0.001	18	200	651	12	Standard
	Pb	208	80.027	ug/L	0.950	1	261	7878371	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0346-DUP4
Sample Dil Factor: 10
Comments:
Sample Date/Time: Thursday, April 27, 2023 01:43:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	41795	2	Standard
	Cl	37		ug/L			5454255	5387316	3	Standard
>	Sc	45		ug/L			519513	543436	3	Standard
	Na	23	3077.370	ug/L	122.123	3	11324	66333470	1	Standard
	Mg	24	723.477	ug/L	16.938	2	1933	20642192	3	Standard
	Al	27	713.993	ug/L	8.860	1	3025	18332698	1	Standard
	Cr	52	5.848	ug/L	0.079	1	16933	133524	1	Standard
	Cr	53	6.072	ug/L	0.087	1	95	13976	2	Standard
	Fe	54	3020.511	ug/L	42.525	1	79986	7973127	1	Standard
	Fe	57	3044.313	ug/L	79.955	2	17976	3264810	3	Standard
	Mn	55	75.315	ug/L	1.934	2	367	2463963	1	Standard
>	Ge	72		ug/L			42545	42815	2	KED
	Ni	60	7.817	ug/L	0.342	4	10	14388	3	KED
	Ni	62	7.571	ug/L	0.143	1	5	2248	1	KED
	Cu	63	48.348	ug/L	1.825	3	62	251886	2	KED
	Cu	65	48.956	ug/L	0.584	1	28	128711	1	KED
	Zn	66	470.818	ug/L	14.420	3	36	310659	1	KED
	Zn	67	436.038	ug/L	15.682	3	5	47360	1	KED
	As	75	0.670	ug/L	0.054	8	2	217	7	KED
	Y	89		ug/L			295853	306258	0	Standard
	Kr	83		ug/L			47	33	16	Standard
>	In-1	115		ug/L			9695	9087	1	KED
	Cd	111	0.859	ug/L	0.028	3	4	273	2	KED
	Cd	114	0.919	ug/L	0.061	6	1	744	5	KED
>	In	115		ug/L			556386	551405	1	Standard
	Ba	135	29.205	ug/L	0.873	2	32	194835	2	Standard
	Ba	137	29.906	ug/L	0.482	1	57	354013	1	Standard
>	Tb	159		ug/L			1335544	1351105	0	Standard
	Tl	205	0.005	ug/L	0.000	6	200	625	3	Standard
	Pb	208	78.843	ug/L	2.013	2	261	7858970	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0346-MS4
Sample Dil Factor: 10
Comments:
Sample Date/Time: Thursday, April 27, 2023 01:49:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	41800	4	Standard
	Cl	37		ug/L			5454255	5539175	3	Standard
⌈>	Sc	45		ug/L			519513	534799	1	Standard
|	Na	23	3591.276	ug/L	116.541	3	11324	76218081	1	Standard
|	Mg	24	1231.475	ug/L	13.848	1	1933	34578200	1	Standard
|	Al	27	1152.563	ug/L	11.636	1	3025	29128132	1	Standard
|	Cr	52	7.803	ug/L	0.202	2	16933	169521	0	Standard
|	Cr	53	8.103	ug/L	0.060	0	95	18325	0	Standard
|	Fe	54	3241.107	ug/L	90.179	2	79986	8413661	1	Standard
|	Fe	57	3313.695	ug/L	87.096	2	17976	3495403	1	Standard
⌊	Mn	55	75.708	ug/L	2.282	3	367	2437946	2	Standard
⌈>	Ge	72		ug/L			42545	42611	0	KED
|	Ni	60	9.956	ug/L	0.040	0	10	18245	1	KED
|	Ni	62	10.128	ug/L	0.103	1	5	2992	0	KED
|	Cu	63	49.400	ug/L	1.905	3	62	256181	3	KED
|	Cu	65	49.365	ug/L	0.631	1	28	129180	0	KED
|	Zn	66	471.572	ug/L	7.881	1	36	309780	1	KED
|	Zn	67	438.715	ug/L	4.506	1	5	47446	0	KED
⌊	As	75	2.935	ug/L	0.083	2	2	942	2	KED
	Y	89		ug/L			295853	302199	1	Standard
	Kr	83		ug/L			47	50	17	Standard
⌈>	In-1	115		ug/L			9695	9535	2	KED
|	Cd	111	3.411	ug/L	0.142	4	4	1124	2	KED
⌊	Cd	114	3.324	ug/L	0.146	4	1	2821	4	KED
⌈>	In	115		ug/L			556386	538088	0	Standard
|	Ba	135	29.995	ug/L	0.659	2	32	195307	2	Standard
⌊	Ba	137	30.551	ug/L	0.415	1	57	352954	1	Standard
⌈>	Tb	159		ug/L			1335544	1326263	1	Standard
|	Tl	205	2.243	ug/L	0.009	0	200	175601	0	Standard
⌊	Pb	208	80.236	ug/L	0.651	0	261	7851263	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLA
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 01:55:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29982	29409	1	Standard
	Cl	**37**		ug/L			5454255	5334641	1	Standard
⌈>	**Sc**	**45**		ug/L			519513	518522	0	Standard
|	**Na**	**23**	**0.407**	ug/L	0.011	2	11324	19672	0	Standard
|	**Mg**	**24**	**0.021**	ug/L	0.001	3	1933	2498	0	Standard
|	**Al**	**27**	**0.027**	ug/L	0.002	8	3025	3680	1	Standard
|	**Cr**	**52**	**0.022**	ug/L	0.016	73	16933	17317	2	Standard
|	**Cr**	**53**	**0.026**	ug/L	0.003	12	95	151	5	Standard
|	**Fe**	**54**	**-0.466**	ug/L	0.556	119	79986	78673	2	Standard
|	**Fe**	**57**	**-2.008**	ug/L	0.804	40	17976	15898	5	Standard
⌊	**Mn**	**55**	**0.004**	ug/L	0.001	25	367	498	6	Standard
⌈>	**Ge**	**72**		ug/L			42545	42120	1	KED
|	**Ni**	**60**	**0.007**	ug/L	0.002	29	10	22	14	KED
|	**Ni**	**62**	**0.000**	ug/L	0.010	5620	5	5	57	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.002	419	62	59	20	KED
|	**Cu**	**65**	**0.003**	ug/L	0.003	100	28	36	22	KED
|	**Zn**	**66**	**0.038**	ug/L	0.008	20	36	60	6	KED
|	**Zn**	**67**	**0.048**	ug/L	0.020	41	5	10	20	KED
⌊	**As**	**75**	**0.004**	ug/L	0.002	67	2	3	19	KED
	Y	**89**		ug/L			295853	286072	2	Standard
	Kr	**83**		ug/L			47	61	31	Standard
⌈>	**In-1**	**115**		ug/L			9695	9410	1	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.005	309	4	3	43	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.002	40	1	6	30	KED
⌈>	**In**	**115**		ug/L			556386	532103	1	Standard
|	**Ba**	**135**	**0.002**	ug/L	0.002	95	32	45	32	Standard
⌊	**Ba**	**137**	**0.003**	ug/L	0.001	37	57	90	14	Standard
⌈>	**Tb**	**159**		ug/L			1335544	1321628	1	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	13	200	111	11	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	8	261	605	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 01:59:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29982	31005	1	Standard
	Cl	**37**		ug/L			5454255	5901897	2	Standard
⌈>	**Sc**	**45**		ug/L			519513	538022	1	Standard
|	**Na**	**23**	**4730.262**	ug/L	221.043	4	11324	100964520	3	Standard
|	**Mg**	**24**	**4759.602**	ug/L	168.663	3	1933	134390704	1	Standard
|	**Al**	**27**	**4826.036**	ug/L	176.064	3	3025	122634531	1	Standard
|	**Cr**	**52**	**50.714**	ug/L	0.924	1	16933	1011965	0	Standard
|	**Cr**	**53**	**50.437**	ug/L	1.056	2	95	114222	1	Standard
|	**Fe**	**54**	**4684.664**	ug/L	242.644	5	79986	12192526	3	Standard
|	**Fe**	**57**	**4799.766**	ug/L	208.809	4	17976	5083547	2	Standard
⌊	**Mn**	**55**	**45.991**	ug/L	0.665	1	367	1490127	0	Standard
⌈>	**Ge**	**72**		ug/L			42545	42040	2	KED
|	**Ni**	**60**	**48.540**	ug/L	1.253	2	10	87689	0	KED
|	**Ni**	**62**	**48.926**	ug/L	2.348	4	5	14232	2	KED
|	**Cu**	**63**	**49.152**	ug/L	1.536	3	62	251420	1	KED
|	**Cu**	**65**	**49.163**	ug/L	0.559	1	28	126916	1	KED
|	**Zn**	**66**	**49.897**	ug/L	1.731	3	36	32358	2	KED
|	**Zn**	**67**	**48.030**	ug/L	0.619	1	5	5129	1	KED
⌊	**As**	**75**	**50.346**	ug/L	1.159	2	2	15898	0	KED
	Y	**89**		ug/L			295853	289508	3	Standard
	Kr	**83**		ug/L			47	46	26	Standard
⌈>	**In-1**	**115**		ug/L			9695	9190	2	KED
|	**Cd**	**111**	**49.781**	ug/L	1.316	2	4	15763	0	KED
⌊	**Cd**	**114**	**48.689**	ug/L	1.160	2	1	39798	0	KED
⌈>	**In**	**115**		ug/L			556386	525601	3	Standard
|	**Ba**	**135**	**52.277**	ug/L	3.080	5	32	332152	3	Standard
⌊	**Ba**	**137**	**53.427**	ug/L	1.765	3	57	602500	1	Standard
⌈>	**Tb**	**159**		ug/L			1335544	1345047	1	Standard
|	**Tl**	**205**	**48.632**	ug/L	0.672	1	200	3857957	2	Standard
⌊	**Pb**	**208**	**46.667**	ug/L	0.576	1	261	4630969	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 02:07:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29982	30322	1	Standard
	Cl	**37**		ug/L			5454255	5606373	2	Standard
⌈>	**Sc**	**45**		ug/L			519513	532845	2	Standard
|	**Na**	**23**	**0.430**	ug/L	0.038	8	11324	20711	5	Standard
|	**Mg**	**24**	**0.070**	ug/L	0.053	75	1933	3973	39	Standard
|	**Al**	**27**	**0.079**	ug/L	0.057	71	3025	5118	30	Standard
|	**Cr**	**52**	**0.049**	ug/L	0.038	76	16933	18322	3	Standard
|	**Cr**	**53**	**0.016**	ug/L	0.001	8	95	133	1	Standard
|	**Fe**	**54**	**-1.626**	ug/L	0.966	59	79986	77833	1	Standard
|	**Fe**	**57**	**2.981**	ug/L	0.279	9	17976	21553	2	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.000	10	367	446	3	Standard
⌈>	**Ge**	**72**		ug/L			42545	43394	0	KED
|	**Ni**	**60**	**0.005**	ug/L	0.002	28	10	20	14	KED
|	**Ni**	**62**	**0.002**	ug/L	0.007	358	5	5	33	KED
|	**Cu**	**63**	**0.003**	ug/L	0.001	32	62	80	7	KED
|	**Cu**	**65**	**0.003**	ug/L	0.005	151	28	38	36	KED
|	**Zn**	**66**	**0.019**	ug/L	0.015	77	36	49	19	KED
|	**Zn**	**67**	**0.051**	ug/L	0.097	188	5	11	92	KED
⌊	**As**	**75**	**0.000**	ug/L	0.006	1704	2	2	66	KED
	Y	**89**		ug/L			295853	286777	3	Standard
	Kr	**83**		ug/L			47	30	12	Standard
⌈>	**In-1**	**115**		ug/L			9695	9760	2	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.003	55	4	2	43	KED
⌊	**Cd**	**114**	**0.009**	ug/L	0.007	72	1	10	60	KED
⌈>	**In**	**115**		ug/L			556386	525256	2	Standard
|	**Ba**	**135**	**0.004**	ug/L	0.002	55	32	52	21	Standard
⌊	**Ba**	**137**	**0.006**	ug/L	0.001	21	57	116	9	Standard
⌈>	**Tb**	**159**		ug/L			1335544	1314161	1	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.000	17	200	332	7	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.001	37	261	408	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0435-02
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, April 27, 2023 02:12:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	68738	3	Standard
	Cl	37		ug/L			5454255	42120570	4	Standard
>	Sc	45		ug/L			519513	649157	3	Standard
	Na	23	22105.368	ug/L	688.287	3	11324	569203219	1	Standard
	Mg	24	S	ug/L	S	S	1933	S	S	Standard
	Al	27	3.088	ug/L	0.072	2	3025	98457	0	Standard
	Cr	52	1.767	ug/L	0.073	4	16933	62932	1	Standard
	Cr	53	39.366	ug/L	1.273	3	95	107543	0	Standard
	Fe	54	48.159	ug/L	2.868	5	79986	250062	0	Standard
	Fe	57	85.502	ug/L	5.531	6	17976	131253	2	Standard
	Mn	55	15.694	ug/L	0.616	3	367	613738	3	Standard
>	Ge	72		ug/L			42545	36807	0	KED
	Ni	60	0.042	ug/L	0.008	18	10	74	16	KED
	Ni	62	0.147	ug/L	0.014	9	5	41	7	KED
	Cu	63	0.036	ug/L	0.003	8	62	216	6	KED
	Cu	65	0.036	ug/L	0.006	15	28	105	11	KED
	Zn	66	0.361	ug/L	0.013	3	36	236	2	KED
	Zn	67	2.068	ug/L	0.185	8	5	198	8	KED
	As	75	0.150	ug/L	0.011	7	2	43	7	KED
	Y	89		ug/L			295853	306105	1	Standard
	Kr	83		ug/L			47	358	4	Standard
>	In-1	115		ug/L			9695	8238	0	KED
	Cd	111	0.003	ug/L	0.006	165	4	4	34	KED
	Cd	114	0.006	ug/L	0.006	95	1	6	70	KED
>	In	115		ug/L			556386	456883	1	Standard
	Ba	135	29.756	ug/L	0.344	1	32	164499	0	Standard
	Ba	137	31.467	ug/L	0.588	1	57	308651	1	Standard
>	Tb	159		ug/L			1335544	1142736	2	Standard
	Tl	205	0.002	ug/L	0.000	8	200	319	6	Standard
	Pb	208	0.014	ug/L	0.001	10	261	1415	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0435-04
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, April 27, 2023 02:16:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29982	60041	3	Standard
	Cl	**37**		ug/L			5454255	13029774	0	Standard
>	**Sc**	**45**		ug/L			519513	617903	1	Standard
	Na	**23**	**S**	ug/L	S	S	11324	S	S	Standard
	Mg	**24**	**14733.188**	ug/L	559.570	3	1933	478013473	4	Standard
	Al	**27**	**2.373**	ug/L	0.047	1	3025	72883	1	Standard
	Cr	**52**	**1.064**	ug/L	0.025	2	16933	44102	0	Standard
	Cr	**53**	**11.998**	ug/L	0.113	0	95	31297	0	Standard
	Fe	**54**	**-0.323**	ug/L	0.279	86	79986	94171	1	Standard
	Fe	**57**	**25.052**	ug/L	0.394	1	17976	51759	1	Standard
	Mn	**55**	**3.824**	ug/L	0.023	0	367	142731	1	Standard
>	**Ge**	**72**		ug/L			42545	41541	0	KED
	Ni	**60**	**0.183**	ug/L	0.002	1	10	335	1	KED
	Ni	**62**	**0.338**	ug/L	0.049	14	5	102	13	KED
	Cu	**63**	**0.026**	ug/L	0.005	18	62	193	12	KED
	Cu	**65**	**0.021**	ug/L	0.004	20	28	80	13	KED
	Zn	**66**	**0.228**	ug/L	0.043	18	36	181	14	KED
	Zn	**67**	**0.465**	ug/L	0.052	11	5	54	10	KED
	As	**75**	**0.045**	ug/L	0.004	9	2	16	8	KED
	Y	**89**		ug/L			295853	292206	1	Standard
	Kr	**83**		ug/L			47	86	14	Standard
>	**In-1**	**115**		ug/L			9695	9324	2	KED
	Cd	**111**	**-0.003**	ug/L	0.005	146	4	3	45	KED
	Cd	**114**	**0.003**	ug/L	0.005	165	1	4	93	KED
>	**In**	**115**		ug/L			556386	491969	3	Standard
	Ba	**135**	**2.797**	ug/L	0.086	3	32	16666	0	Standard
	Ba	**137**	**2.836**	ug/L	0.163	5	57	29964	2	Standard
>	**Tb**	**159**		ug/L			1335544	1315043	0	Standard
	Tl	**205**	**-0.000**	ug/L	0.000	5405	200	196	18	Standard
	Pb	**208**	**0.004**	ug/L	0.000	3	261	648	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0435-05
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, April 27, 2023 02:21:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29982	53804	1	Standard
	Cl	**37**		ug/L			5454255	11418069	3	Standard
⌈>	**Sc**	**45**		ug/L			519513	583993	1	Standard
|	**Na**	**23**	**S**	ug/L	S	S	11324	S	S	Standard
|	**Mg**	**24**	**14421.315**	ug/L	216.437	1	1933	442142841	1	Standard
|	**Al**	**27**	**6.610**	ug/L	0.227	3	3025	185857	5	Standard
|	**Cr**	**52**	**0.907**	ug/L	0.028	3	16933	38339	2	Standard
|	**Cr**	**53**	**12.199**	ug/L	0.060	0	95	30072	1	Standard
|	**Fe**	**54**	**1187.887**	ug/L	19.498	1	79986	3424543	1	Standard
|	**Fe**	**57**	**1097.776**	ug/L	17.359	1	17976	1278252	2	Standard
⌊	**Mn**	**55**	**22.610**	ug/L	0.300	1	367	795610	2	Standard
⌈>	**Ge**	**72**		ug/L			42545	38400	2	KED
|	**Ni**	**60**	**0.064**	ug/L	0.009	13	10	114	12	KED
|	**Ni**	**62**	**0.267**	ug/L	0.054	20	5	75	18	KED
|	**Cu**	**63**	**0.053**	ug/L	0.004	7	62	303	8	KED
|	**Cu**	**65**	**0.045**	ug/L	0.007	16	28	132	14	KED
|	**Zn**	**66**	**0.110**	ug/L	0.029	26	36	97	19	KED
|	**Zn**	**67**	**0.372**	ug/L	0.067	17	5	41	13	KED
⌊	**As**	**75**	**0.057**	ug/L	0.004	7	2	18	8	KED
	Y	**89**		ug/L			295853	280357	3	Standard
	Kr	**83**		ug/L			47	125	24	Standard
⌈>	**In-1**	**115**		ug/L			9695	8664	0	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.002	31	4	2	24	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.005	120	1	4	79	KED
⌈>	**In**	**115**		ug/L			556386	465598	4	Standard
|	**Ba**	**135**	**3.357**	ug/L	0.141	4	32	18914	0	Standard
⌊	**Ba**	**137**	**3.485**	ug/L	0.152	4	57	34848	2	Standard
⌈>	**Tb**	**159**		ug/L			1335544	1240291	2	Standard
|	**Tl**	**205**	**-0.000**	ug/L	0.000	259	200	179	9	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.000	7	261	721	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0435-06
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, April 27, 2023 02:28:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			29982	79524	3	Standard
Cl	37		ug/L			5454255	27490293	3	Standard
> Sc	45		ug/L			519513	670673	1	Standard
Na	23	S	ug/L	S	S	11324	S	S	Standard
Mg	24	S	ug/L	S	S	1933	S	S	Standard
Al	27	10.106	ug/L	0.165	1	3025	324104	0	Standard
Cr	52	1.657	ug/L	0.030	1	16933	62373	0	Standard
Cr	53	27.435	ug/L	0.491	1	95	77506	0	Standard
Fe	54	43.824	ug/L	2.311	5	79986	244482	1	Standard
Fe	57	62.646	ug/L	1.572	2	17976	105631	0	Standard
Mn	55	35.527	ug/L	0.581	1	367	1435009	1	Standard
> Ge	72		ug/L			42545	37074	1	KED
Ni	60	0.084	ug/L	0.002	2	10	142	3	KED
Ni	62	0.320	ug/L	0.059	18	5	86	16	KED
Cu	63	0.043	ug/L	0.005	12	62	247	10	KED
Cu	65	0.031	ug/L	0.003	8	28	95	5	KED
Zn	66	0.291	ug/L	0.033	11	36	197	8	KED
Zn	67	0.664	ug/L	0.175	26	5	67	23	KED
As	75	0.310	ug/L	0.025	8	2	88	7	KED
Y	89		ug/L			295853	325652	3	Standard
Kr	83		ug/L			47	273	10	Standard
> In-1	115		ug/L			9695	8200	1	KED
Cd	111	0.001	ug/L	0.011	868	4	4	74	KED
Cd	114	0.003	ug/L	0.003	100	1	3	55	KED
> In	115		ug/L			556386	497326	1	Standard
Ba	135	7.073	ug/L	0.415	5	32	42565	4	Standard
Ba	137	7.130	ug/L	0.192	2	57	76160	1	Standard
> Tb	159		ug/L			1335544	1238163	2	Standard
Tl	205	-0.000	ug/L	0.000	193	200	178	9	Standard
Pb	208	0.008	ug/L	0.000	4	261	939	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLB
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 02:32:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	32556	2	Standard
	Cl	37		ug/L			5454255	6133844	2	Standard
>	Sc	45		ug/L			519513	554744	2	Standard
	Na	23	18.698	ug/L	0.693	3	11324	423477	0	Standard
	Mg	24	0.124	ug/L	0.013	10	1933	5678	3	Standard
	Al	27	0.007	ug/L	0.002	22	3025	3423	3	Standard
	Cr	52	0.148	ug/L	0.024	16	16933	21060	0	Standard
	Cr	53	0.570	ug/L	0.038	6	95	1430	4	Standard
	Fe	54	-0.058	ug/L	1.313	2249	79986	85194	2	Standard
	Fe	57	3.193	ug/L	0.661	20	17976	22658	1	Standard
	Mn	55	0.006	ug/L	0.001	17	367	587	5	Standard
>	Ge	72		ug/L			42545	43698	0	KED
	Ni	60	0.005	ug/L	0.007	130	10	20	63	KED
	Ni	62	0.086	ug/L	0.023	26	5	31	21	KED
	Cu	63	0.002	ug/L	0.002	93	62	74	12	KED
	Cu	65	-0.001	ug/L	0.002	177	28	26	18	KED
	Zn	66	0.012	ug/L	0.012	103	36	45	17	KED
	Zn	67	-0.001	ug/L	0.000	28	5	5	0	KED
	As	75	0.002	ug/L	0.005	269	2	3	48	KED
	Y	89		ug/L			295853	291322	2	Standard
	Kr	83		ug/L			47	36	13	Standard
>	In-1	115		ug/L			9695	9873	1	KED
	Cd	111	-0.003	ug/L	0.008	271	4	3	83	KED
	Cd	114	0.003	ug/L	0.003	119	1	4	65	KED
>	In	115		ug/L			556386	531487	2	Standard
	Ba	135	0.001	ug/L	0.002	147	32	39	31	Standard
	Ba	137	0.002	ug/L	0.001	25	57	81	10	Standard
>	Tb	159		ug/L			1335544	1302021	1	Standard
	Tl	205	0.000	ug/L	0.000	87	200	224	10	Standard
	Pb	208	0.002	ug/L	0.001	29	261	440	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0435-07
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, April 27, 2023 02:37:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29982	58586	3	Standard
	Cl	**37**		ug/L			5454255	37134455	3	Standard
>	**Sc**	**45**		ug/L			519513	630175	0	Standard
	Na	**23**	**27608.231**	ug/L	1146.298	4	11324	690656609	4	Standard
	Mg	**24**	**S**	ug/L	S	S	1933	S	S	Standard
	Al	**27**	**3.366**	ug/L	0.032	0	3025	103887	0	Standard
	Cr	**52**	**1.006**	ug/L	0.042	4	16933	43645	2	Standard
	Cr	**53**	**25.668**	ug/L	0.394	1	95	68161	2	Standard
	Fe	**54**	**2668.336**	ug/L	15.944	0	79986	8181225	1	Standard
	Fe	**57**	**2694.160**	ug/L	3.981	0	17976	3353577	0	Standard
	Mn	**55**	**23.225**	ug/L	0.186	0	367	881724	0	Standard
>	**Ge**	**72**		ug/L			42545	35860	1	KED
	Ni	**60**	**0.042**	ug/L	0.006	14	10	73	11	KED
	Ni	**62**	**0.541**	ug/L	0.091	16	5	138	15	KED
	Cu	**63**	**0.091**	ug/L	0.002	2	62	450	3	KED
	Cu	**65**	**0.067**	ug/L	0.008	11	28	170	10	KED
	Zn	**66**	**0.339**	ug/L	0.075	21	36	217	18	KED
	Zn	**67**	**0.832**	ug/L	0.098	11	5	80	12	KED
	As	**75**	**0.086**	ug/L	0.019	22	2	25	21	KED
	Y	**89**		ug/L			295853	311833	6	Standard
	Kr	**83**		ug/L			47	2049	2	Standard
>	**In-1**	**115**		ug/L			9695	8038	2	KED
	Cd	**111**	**0.006**	ug/L	0.006	89	4	5	26	KED
	Cd	**114**	**0.012**	ug/L	0.003	25	1	9	22	KED
>	**In**	**115**		ug/L			556386	474972	2	Standard
	Ba	**135**	**7.638**	ug/L	0.289	3	32	43895	1	Standard
	Ba	**137**	**7.926**	ug/L	0.180	2	57	80849	2	Standard
>	**Tb**	**159**		ug/L			1335544	1168155	3	Standard
	Tl	**205**	**0.000**	ug/L	0.000	93	200	190	10	Standard
	Pb	**208**	**0.015**	ug/L	0.001	3	261	1478	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0453-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, April 27, 2023 02:42:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	60497	6	Standard
	Cl	37		ug/L			5454255	29251828	1	Standard
>	Sc	45		ug/L			519513	601239	2	Standard
	Na	23	S	ug/L	S	S	11324	S	S	Standard
	Mg	24	S	ug/L	S	S	1933	S	S	Standard
	Al	27	2.539	ug/L	0.068	2	3025	75587	1	Standard
	Cr	52	2.158	ug/L	0.080	3	16933	66856	0	Standard
	Cr	53	28.131	ug/L	0.451	1	95	71247	2	Standard
	Fe	54	495.571	ug/L	12.556	2	79986	1524604	2	Standard
	Fe	57	509.882	ug/L	17.267	3	17976	622151	2	Standard
	Mn	55	29.080	ug/L	0.527	1	367	1052962	1	Standard
>	Ge	72		ug/L			42545	35949	1	KED
	Ni	60	0.047	ug/L	0.012	24	10	81	22	KED
	Ni	62	0.677	ug/L	0.035	5	5	172	4	KED
	Cu	63	0.072	ug/L	0.002	3	62	366	2	KED
	Cu	65	0.030	ug/L	0.005	15	28	90	11	KED
	Zn	66	0.120	ug/L	0.014	11	36	97	7	KED
	Zn	67	0.837	ug/L	0.201	24	5	81	23	KED
	As	75	0.126	ug/L	0.010	7	2	36	6	KED
	Y	89		ug/L			295853	275638	3	Standard
	Kr	83		ug/L			47	659	6	Standard
>	In-1	115		ug/L			9695	8052	1	KED
	Cd	111	0.002	ug/L	0.009	554	4	4	58	KED
	Cd	114	-0.002	ug/L	0.002	94	1	0	406	KED
>	In	115		ug/L			556386	434847	2	Standard
	Ba	135	12.362	ug/L	0.354	2	32	65044	1	Standard
	Ba	137	12.607	ug/L	0.524	4	57	117663	2	Standard
>	Tb	159		ug/L			1335544	1178738	0	Standard
	Tl	205	0.000	ug/L	0.000	13	200	182	1	Standard
	Pb	208	0.011	ug/L	0.001	6	261	1195	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0453-02
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, April 27, 2023 02:47:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	63459	4	Standard
	Cl	37		ug/L			5454255	23633777	4	Standard
>	Sc	45		ug/L			519513	609058	5	Standard
	Na	23	S	ug/L	S	S	11324	S	S	Standard
	Mg	24	28931.124	ug/L	1350.680	4	1933	923492614	1	Standard
	Al	27	2.706	ug/L	0.145	5	3025	81262	0	Standard
	Cr	52	1.984	ug/L	0.099	4	16933	63814	2	Standard
	Cr	53	21.961	ug/L	1.131	5	95	56264	1	Standard
	Fe	54	401.399	ug/L	21.212	5	79986	1266729	1	Standard
	Fe	57	394.553	ug/L	24.383	6	17976	491518	0	Standard
	Mn	55	7.094	ug/L	0.289	4	367	260188	1	Standard
>	Ge	72		ug/L			42545	34692	1	KED
	Ni	60	0.113	ug/L	0.008	7	10	176	6	KED
	Ni	62	0.551	ug/L	0.041	7	5	136	6	KED
	Cu	63	0.077	ug/L	0.007	9	62	374	9	KED
	Cu	65	0.054	ug/L	0.009	16	28	137	14	KED
	Zn	66	0.100	ug/L	0.001	0	36	83	1	KED
	Zn	67	0.438	ug/L	0.100	22	5	43	19	KED
	As	75	0.152	ug/L	0.022	14	2	41	12	KED
	Y	89		ug/L			295853	312866	8	Standard
	Kr	83		ug/L			47	400	1	Standard
>	In-1	115		ug/L			9695	7629	0	KED
	Cd	111	-0.002	ug/L	0.000	0	4	2	0	KED
	Cd	114	0.004	ug/L	0.005	116	1	4	74	KED
>	In	115		ug/L			556386	482537	7	Standard
	Ba	135	4.896	ug/L	0.321	6	32	28524	1	Standard
	Ba	137	5.024	ug/L	0.364	7	57	51911	0	Standard
>	Tb	159		ug/L			1335544	1173767	6	Standard
	Tl	205	-0.000	ug/L	0.000	10	200	143	6	Standard
	Pb	208	0.016	ug/L	0.002	14	261	1606	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0453-03
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, April 27, 2023 02:53:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29982	58798	4	Standard
	Cl	**37**		ug/L			5454255	16279643	4	Standard
>	**Sc**	**45**		ug/L			519513	597739	1	Standard
	Na	**23**	**S**	ug/L	S	S	11324	S	S	Standard
	Mg	**24**	**13606.816**	ug/L	419.463	3	1933	427033843	3	Standard
	Al	**27**	**2.209**	ug/L	0.062	2	3025	65867	3	Standard
	Cr	**52**	**1.036**	ug/L	0.009	0	16933	42061	0	Standard
	Cr	**53**	**16.805**	ug/L	0.098	0	95	42361	0	Standard
	Fe	**54**	**1659.634**	ug/L	60.547	3	79986	4861863	4	Standard
	Fe	**57**	**1516.475**	ug/L	31.442	2	17976	1799589	2	Standard
	Mn	**55**	**16.041**	ug/L	0.216	1	367	577873	2	Standard
>	**Ge**	**72**		ug/L			42545	36594	2	KED
	Ni	**60**	**0.107**	ug/L	0.004	3	10	176	3	KED
	Ni	**62**	**0.496**	ug/L	0.085	17	5	130	17	KED
	Cu	**63**	**0.279**	ug/L	0.015	5	62	1295	3	KED
	Cu	**65**	**0.265**	ug/L	0.008	3	28	619	4	KED
	Zn	**66**	**0.245**	ug/L	0.046	18	36	168	13	KED
	Zn	**67**	**0.480**	ug/L	0.022	4	5	49	3	KED
	As	**75**	**0.128**	ug/L	0.006	4	2	37	2	KED
	Y	**89**		ug/L			295853	284901	2	Standard
	Kr	**83**		ug/L			47	493	11	Standard
>	**In-1**	**115**		ug/L			9695	8437	2	KED
	Cd	**111**	**-0.009**	ug/L	0.004	42	4	1	86	KED
	Cd	**114**	**0.002**	ug/L	0.001	91	1	2	40	KED
>	**In**	**115**		ug/L			556386	478548	3	Standard
	Ba	**135**	**3.883**	ug/L	0.040	1	32	22504	2	Standard
	Ba	**137**	**3.953**	ug/L	0.171	4	57	40617	1	Standard
>	**Tb**	**159**		ug/L			1335544	1246695	0	Standard
	Tl	**205**	**-0.001**	ug/L	0.000	2	200	149	1	Standard
	Pb	**208**	**0.006**	ug/L	0.001	10	261	773	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 02:58:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29982	32004	2	Standard
	Cl	**37**		ug/L			5454255	5635160	1	Standard
>	**Sc**	**45**		ug/L			519513	569051	1	Standard
	Na	**23**	**128.072**	ug/L	165.436	129	11324	2943195	129	Standard
	Mg	**24**	**2.721**	ug/L	4.261	156	1933	84728	153	Standard
	Al	**27**	**0.001**	ug/L	0.006	495	3025	3344	3	Standard
	Cr	**52**	**0.100**	ug/L	0.017	16	16933	20610	0	Standard
	Cr	**53**	**0.603**	ug/L	0.021	3	95	1547	1	Standard
	Fe	**54**	**-1.442**	ug/L	0.206	14	79986	83671	2	Standard
	Fe	**57**	**1.149**	ug/L	0.594	51	17976	20979	4	Standard
	Mn	**55**	**0.010**	ug/L	0.008	73	367	760	35	Standard
>	**Ge**	**72**		ug/L			42545	40929	0	KED
	Ni	**60**	**0.008**	ug/L	0.004	54	10	24	32	KED
	Ni	**62**	**0.142**	ug/L	0.036	25	5	45	23	KED
	Cu	**63**	**0.004**	ug/L	0.001	14	62	78	2	KED
	Cu	**65**	**0.002**	ug/L	0.002	80	28	33	13	KED
	Zn	**66**	**0.016**	ug/L	0.009	54	36	45	12	KED
	Zn	**67**	**0.014**	ug/L	0.021	148	5	6	31	KED
	As	**75**	**0.002**	ug/L	0.006	336	2	3	63	KED
	Y	**89**		ug/L			295853	291298	0	Standard
	Kr	**83**		ug/L			47	42	29	Standard
>	**In-1**	**115**		ug/L			9695	9064	2	KED
	Cd	**111**	**-0.002**	ug/L	0.007	307	4	3	62	KED
	Cd	**114**	**0.006**	ug/L	0.002	26	1	6	17	KED
>	**In**	**115**		ug/L			556386	525320	1	Standard
	Ba	**135**	**0.002**	ug/L	0.002	94	32	43	28	Standard
	Ba	**137**	**0.003**	ug/L	0.002	55	57	85	21	Standard
>	**Tb**	**159**		ug/L			1335544	1294749	0	Standard
	Tl	**205**	**0.000**	ug/L	0.000	45	200	231	7	Standard
	Pb	**208**	**0.002**	ug/L	0.000	12	261	417	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 03:02:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			29982	31881	4	Standard
	Cl	37		ug/L			5454255	5855891	2	Standard
>	Sc	45		ug/L			519513	566631	0	Standard
	Na	23	4238.095	ug/L	150.325	3	11324	95313922	3	Standard
	Mg	24	4253.959	ug/L	72.015	1	1933	126552140	1	Standard
	Al	27	4452.788	ug/L	164.233	3	3025	119211394	3	Standard
	Cr	52	50.337	ug/L	0.509	1	16933	1058184	0	Standard
	Cr	53	50.225	ug/L	1.066	2	95	119813	1	Standard
	Fe	54	4190.271	ug/L	67.692	1	79986	11501914	1	Standard
	Fe	57	4357.096	ug/L	67.371	1	17976	4864407	1	Standard
	Mn	55	45.713	ug/L	0.770	1	367	1560114	1	Standard
>	Ge	72		ug/L			42545	40165	1	KED
	Ni	60	47.938	ug/L	0.995	2	10	82759	1	KED
	Ni	62	48.552	ug/L	1.385	2	5	13501	2	KED
	Cu	63	48.674	ug/L	0.087	0	62	237978	1	KED
	Cu	65	49.529	ug/L	0.953	1	28	122162	0	KED
	Zn	66	49.609	ug/L	0.705	1	36	30751	2	KED
	Zn	67	51.277	ug/L	0.358	0	5	5232	0	KED
	As	75	50.443	ug/L	0.394	0	2	15223	0	KED
	Y	89		ug/L			295853	295505	1	Standard
	Kr	83		ug/L			47	45	12	Standard
>	In-1	115		ug/L			9695	8827	0	KED
	Cd	111	49.978	ug/L	0.644	1	4	15205	0	KED
	Cd	114	49.391	ug/L	0.955	1	1	38788	1	KED
>	In	115		ug/L			556386	529742	0	Standard
	Ba	135	50.035	ug/L	0.553	1	32	320729	1	Standard
	Ba	137	50.654	ug/L	1.565	3	57	576039	2	Standard
>	Tb	159		ug/L			1335544	1317395	1	Standard
	Tl	205	46.165	ug/L	1.111	2	200	3585892	1	Standard
	Pb	208	45.980	ug/L	0.919	1	261	4468811	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 03:10:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29982	30974	2	Standard
	Cl	**37**		ug/L			5454255	5348782	2	Standard
>	**Sc**	**45**		ug/L			519513	548233	0	Standard
	Na	**23**	**11.600**	ug/L	0.161	1	11324	264332	0	Standard
	Mg	**24**	**0.069**	ug/L	0.001	1	1933	4016	0	Standard
	Al	**27**	**0.045**	ug/L	0.004	9	3025	4370	2	Standard
	Cr	**52**	**0.075**	ug/L	0.007	9	16933	19369	0	Standard
	Cr	**53**	**0.206**	ug/L	0.015	7	95	574	6	Standard
	Fe	**54**	**-2.311**	ug/L	0.449	19	79986	78313	1	Standard
	Fe	**57**	**0.510**	ug/L	0.717	140	17976	19517	3	Standard
	Mn	**55**	**0.004**	ug/L	0.001	12	367	527	2	Standard
>	**Ge**	**72**		ug/L			42545	41635	0	KED
	Ni	**60**	**0.004**	ug/L	0.004	107	10	17	44	KED
	Ni	**62**	**0.038**	ug/L	0.010	26	5	15	18	KED
	Cu	**63**	**0.002**	ug/L	0.003	122	62	73	19	KED
	Cu	**65**	**0.006**	ug/L	0.003	44	28	43	15	KED
	Zn	**66**	**0.017**	ug/L	0.019	109	36	46	25	KED
	Zn	**67**	**0.019**	ug/L	0.035	186	5	7	50	KED
	As	**75**	**0.002**	ug/L	0.003	141	2	3	31	KED
	Y	**89**		ug/L			295853	292041	1	Standard
	Kr	**83**		ug/L			47	43	36	Standard
>	**In-1**	**115**		ug/L			9695	9336	0	KED
	Cd	**111**	**-0.007**	ug/L	0.006	79	4	1	100	KED
	Cd	**114**	**0.002**	ug/L	0.003	174	1	3	70	KED
>	**In**	**115**		ug/L			556386	513736	1	Standard
	Ba	**135**	**0.004**	ug/L	0.003	66	32	53	30	Standard
	Ba	**137**	**0.005**	ug/L	0.000	9	57	106	6	Standard
>	**Tb**	**159**		ug/L			1335544	1270947	0	Standard
	Tl	**205**	**0.003**	ug/L	0.000	11	200	429	6	Standard
	Pb	**208**	**0.002**	ug/L	0.000	7	261	409	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 03:15:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				30857	2	Standard
	Cl	**37**		ug/L				5295645	2	Standard
>	**Sc**	**45**		ug/L				548010	1	Standard
	Na	**23**		ug/L				206938	0	Standard
	Mg	**24**		ug/L				2880	1	Standard
	Al	**27**		ug/L				3738	3	Standard
	Cr	**52**		ug/L				18808	1	Standard
	Cr	**53**		ug/L				545	5	Standard
	Fe	**54**		ug/L				77311	2	Standard
	Fe	**57**		ug/L				20178	0	Standard
	Mn	**55**		ug/L				497	2	Standard
>	**Ge**	**72**		ug/L				40161	1	KED
	Ni	**60**		ug/L				23	18	KED
	Ni	**62**		ug/L				12	9	KED
	Cu	**63**		ug/L				63	18	KED
	Cu	**65**		ug/L				31	38	KED
	Zn	**66**		ug/L				41	34	KED
	Zn	**67**		ug/L				9	34	KED
	As	**75**		ug/L				3	9	KED
	Y	**89**		ug/L				293931	3	Standard
	Kr	**83**		ug/L				41	22	Standard
>	**In-1**	**115**		ug/L				9171	1	KED
	Cd	**111**		ug/L				3	15	KED
	Cd	**114**		ug/L				3	73	KED
>	**In**	**115**		ug/L				523263	1	Standard
	Ba	**135**		ug/L				41	14	Standard
	Ba	**137**		ug/L				120	4	Standard
>	**Tb**	**159**		ug/L				1275917	1	Standard
	Tl	**205**		ug/L				295	6	Standard
	Pb	**208**		ug/L				400	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 03:19:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30857	31916	1	Standard
	Cl	37		ug/L			5295645	5781779	3	Standard
>	Sc	45		ug/L			548010	558319	1	Standard
	Na	23	4344.252	ug/L	78.274	1	206938	96459985	0	Standard
	Mg	24	4333.601	ug/L	78.201	1	2880	127025470	1	Standard
	Al	27	4394.527	ug/L	72.043	1	3738	115930312	2	Standard
	Cr	52	50.637	ug/L	0.599	1	18808	1049793	2	Standard
	Cr	53	50.118	ug/L	0.157	0	545	118267	1	Standard
	Fe	54	4240.661	ug/L	34.602	0	77311	11461509	1	Standard
	Fe	57	4293.012	ug/L	42.302	0	20178	4724443	2	Standard
	Mn	55	46.256	ug/L	0.381	0	497	1555721	2	Standard
>	Ge	72		ug/L			40161	40045	0	KED
	Ni	60	48.418	ug/L	0.867	1	23	83358	1	KED
	Ni	62	48.213	ug/L	1.282	2	12	13374	2	KED
	Cu	63	48.694	ug/L	1.108	2	63	237341	1	KED
	Cu	65	49.364	ug/L	0.401	0	31	121408	0	KED
	Zn	66	49.760	ug/L	0.879	1	41	30758	1	KED
	Zn	67	50.387	ug/L	1.389	2	9	5131	3	KED
	As	75	50.639	ug/L	0.559	1	3	15237	0	KED
	Y	89		ug/L			293931	292116	1	Standard
	Kr	83		ug/L			41	46	6	Standard
>	In-1	115		ug/L			9171	8926	2	KED
	Cd	111	49.737	ug/L	1.610	3	3	15294	1	KED
	Cd	114	48.750	ug/L	1.347	2	3	38699	0	KED
>	In	115		ug/L			523263	517771	2	Standard
	Ba	135	51.890	ug/L	2.435	4	41	324885	2	Standard
	Ba	137	53.813	ug/L	1.094	2	120	598116	1	Standard
>	Tb	159		ug/L			1275917	1314987	1	Standard
	Tl	205	46.938	ug/L	0.296	0	295	3639748	0	Standard
	Pb	208	46.369	ug/L	0.602	1	400	4498595	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 03:27:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	31030	1	Standard
	Cl	**37**		ug/L			5295645	5350375	2	Standard
⌈>	**Sc**	**45**		ug/L			548010	553435	2	Standard
|	**Na**	**23**	**-2.740**	ug/L	0.174	6	206938	148743	0	Standard
|	**Mg**	**24**	**0.005**	ug/L	0.003	59	2880	3044	3	Standard
|	**Al**	**27**	**0.004**	ug/L	0.009	212	3738	3883	3	Standard
|	**Cr**	**52**	**-0.011**	ug/L	0.028	262	18808	18772	0	Standard
|	**Cr**	**53**	**-0.072**	ug/L	0.010	14	545	383	3	Standard
|	**Fe**	**54**	**0.690**	ug/L	1.004	145	77311	79884	2	Standard
|	**Fe**	**57**	**0.072**	ug/L	0.174	243	20178	20453	1	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.001	53	497	470	5	Standard
⌈>	**Ge**	**72**		ug/L			40161	40674	0	KED
|	**Ni**	**60**	**-0.001**	ug/L	0.003	305	23	22	21	KED
|	**Ni**	**62**	**-0.014**	ug/L	0.004	30	12	8	13	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.002	236	63	59	17	KED
|	**Cu**	**65**	**0.003**	ug/L	0.003	105	31	38	18	KED
|	**Zn**	**66**	**0.032**	ug/L	0.014	44	41	62	14	KED
|	**Zn**	**67**	**-0.007**	ug/L	0.011	152	9	8	12	KED
⌊	**As**	**75**	**0.002**	ug/L	0.007	369	3	3	60	KED
	Y	**89**		ug/L			293931	293188	2	Standard
	Kr	**83**		ug/L			41	48	6	Standard
⌈>	**In-1**	**115**		ug/L			9171	9320	0	KED
|	**Cd**	**111**	**0.014**	ug/L	0.019	137	3	7	76	KED
⌊	**Cd**	**114**	**0.023**	ug/L	0.020	85	3	22	73	KED
⌈>	**In**	**115**		ug/L			523263	532880	0	Standard
|	**Ba**	**135**	**0.001**	ug/L	0.001	112	41	48	14	Standard
⌊	**Ba**	**137**	**-0.001**	ug/L	0.000	3	120	107	1	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1289885	1	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	20	295	389	5	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	378	400	398	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-14~~RE1~~
Sample Dil Factor: 10
Comments:
Sample Date/Time: Thursday, April 27, 2023 03:32:13 MB 4/26/23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	43163	2	Standard
	Cl	**37**		ug/L			5295645	5496899	3	Standard
⌈>	**Sc**	**45**		ug/L			548010	572223	1	Standard
|	**Na**	**23**	**739.296**	ug/L	11.606	1	206938	17007164	2	Standard
|	**Mg**	**24**	**1675.258**	ug/L	43.353	2	2880	50340437	3	Standard
|	**Al**	**27**	**0.690**	ug/L	0.014	1	3738	22549	1	Standard
|	**Cr**	**52**	**0.062**	ug/L	0.010	15	18808	20937	0	Standard
|	**Cr**	**53**	**-0.017**	ug/L	0.006	37	545	529	2	Standard
|	**Fe**	**54**	**0.761**	ug/L	0.356	46	77311	82823	1	Standard
|	**Fe**	**57**	**3.887**	ug/L	0.157	4	20178	25435	1	Standard
⌊	**Mn**	**55**	**62.236**	ug/L	1.205	1	497	2145033	2	Standard
⌈>	**Ge**	**72**		ug/L			40161	41010	0	KED
|	**Ni**	**60**	**0.218**	ug/L	0.009	4	23	408	3	KED
|	**Ni**	**62**	**0.205**	ug/L	0.049	23	12	70	18	KED
|	**Cu**	**63**	**0.234**	ug/L	0.008	3	63	1234	3	KED
|	**Cu**	**65**	**0.239**	ug/L	0.012	5	31	634	4	KED
|	**Zn**	**66**	**0.268**	ug/L	0.042	15	41	212	13	KED
|	**Zn**	**67**	**0.395**	ug/L	0.101	25	9	50	20	KED
⌊	**As**	**75**	**0.044**	ug/L	0.013	29	3	16	23	KED
	Y	**89**		ug/L			293931	294355	0	Standard
	Kr	**83**		ug/L			41	46	8	Standard
⌈>	**In-1**	**115**		ug/L			9171	9040	3	KED
|	**Cd**	**111**	**0.008**	ug/L	0.014	179	3	5	72	KED
⌊	**Cd**	**114**	**0.010**	ug/L	0.005	50	3	11	34	KED
⌈>	**In**	**115**		ug/L			523263	538121	0	Standard
|	**Ba**	**135**	**2.305**	ug/L	0.054	2	41	15052	2	Standard
⌊	**Ba**	**137**	**2.317**	ug/L	0.045	1	120	26892	2	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1318709	1	Standard
|	**Tl**	**205**	**-0.000**	ug/L	0.000	60	295	274	6	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.001	26	400	631	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-16~~RE1~~
Sample Dil Factor: 5
Comments:
MB 4/26/23
Sample Date/Time: Thursday, April 27, 2023 03:36:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	46252	2	Standard
	Cl	**37**		ug/L			5295645	6128576	2	Standard
⌈>	**Sc**	**45**		ug/L			548010	598256	1	Standard
|	**Na**	**23**	**10052.505**	ug/L	230.992	2	206938	238910494	2	Standard
|	**Mg**	**24**	**16775.670**	ug/L	433.983	2	2880	526874103	2	Standard
|	**Al**	**27**	**0.338**	ug/L	0.008	2	3738	13633	1	Standard
|	**Cr**	**52**	**0.027**	ug/L	0.011	39	18808	21121	1	Standard
|	**Cr**	**53**	**-0.042**	ug/L	0.005	12	545	489	3	Standard
|	**Fe**	**54**	**3.322**	ug/L	0.939	28	77311	93947	2	Standard
|	**Fe**	**57**	**45.581**	ug/L	0.355	0	20178	75545	1	Standard
⌊	**Mn**	**55**	**41.584**	ug/L	0.599	1	497	1498451	0	Standard
⌈>	**Ge**	**72**		ug/L			40161	39174	1	KED
|	**Ni**	**60**	**0.744**	ug/L	0.021	2	23	1275	4	KED
|	**Ni**	**62**	**0.711**	ug/L	0.064	8	12	204	6	KED
|	**Cu**	**63**	**0.048**	ug/L	0.005	11	63	288	7	KED
|	**Cu**	**65**	**0.050**	ug/L	0.016	31	31	151	23	KED
|	**Zn**	**66**	**0.461**	ug/L	0.042	9	41	319	8	KED
|	**Zn**	**67**	**0.916**	ug/L	0.103	11	9	100	8	KED
⌊	**As**	**75**	**0.103**	ug/L	0.010	10	3	33	7	KED
	Y	**89**		ug/L			293931	287199	1	Standard
	Kr	**83**		ug/L			41	45	11	Standard
⌈>	**In-1**	**115**		ug/L			9171	8443	2	KED
|	**Cd**	**111**	**0.051**	ug/L	0.002	3	3	18	5	KED
⌊	**Cd**	**114**	**0.034**	ug/L	0.008	24	3	28	20	KED
⌈>	**In**	**115**		ug/L			523263	516247	1	Standard
|	**Ba**	**135**	**9.529**	ug/L	0.186	1	41	59551	0	Standard
⌊	**Ba**	**137**	**9.700**	ug/L	0.073	0	120	107624	1	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1302259	0	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	5	295	224	2	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.000	1	400	1085	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-18~~RE1~~
Sample Dil Factor: 5
Comments:
MB 4/26/23
Sample Date/Time: Thursday, April 27, 2023 03:41:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30857	44946	3	Standard
	Cl	37		ug/L			5295645	5826410	3	Standard
>	Sc	45		ug/L			548010	576919	0	Standard
	Na	23	9868.968	ug/L	202.883	2	206938	226213951	2	Standard
	Mg	24	4764.732	ug/L	65.615	1	2880	144337932	2	Standard
	Al	27	0.926	ug/L	0.014	1	3738	29165	0	Standard
	Cr	52	0.067	ug/L	0.014	20	18808	21214	1	Standard
	Cr	53	0.412	ug/L	0.025	6	545	1574	2	Standard
	Fe	54	12.270	ug/L	0.363	2	77311	115427	1	Standard
	Fe	57	27.142	ug/L	1.241	4	20178	51977	3	Standard
	Mn	55	63.174	ug/L	0.832	1	497	2195299	1	Standard
>	Ge	72		ug/L			40161	40284	0	KED
	Ni	60	0.321	ug/L	0.016	5	23	579	4	KED
	Ni	62	0.280	ug/L	0.025	8	12	90	7	KED
	Cu	63	0.161	ug/L	0.006	3	63	855	2	KED
	Cu	65	0.177	ug/L	0.016	9	31	468	8	KED
	Zn	66	0.536	ug/L	0.026	4	41	374	3	KED
	Zn	67	1.049	ug/L	0.155	14	9	116	14	KED
	As	75	0.774	ug/L	0.025	3	3	237	2	KED
	Y	89		ug/L			293931	294247	3	Standard
	Kr	83		ug/L			41	40	23	Standard
>	In-1	115		ug/L			9171	8737	2	KED
	Cd	111	0.001	ug/L	0.004	660	3	3	31	KED
	Cd	114	0.003	ug/L	0.003	74	3	5	34	KED
>	In	115		ug/L			523263	540694	1	Standard
	Ba	135	6.986	ug/L	0.225	3	41	45731	1	Standard
	Ba	137	7.145	ug/L	0.120	1	120	83041	1	Standard
>	Tb	159		ug/L			1275917	1323101	1	Standard
	Tl	205	-0.002	ug/L	0.000	20	295	160	17	Standard
	Pb	208	0.002	ug/L	0.000	17	400	580	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-20~~RE1~~
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, April 27, 2023 03:46:24

MB 4/26/23

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30857	45222	2	Standard
	Cl	37		ug/L			5295645	5825471	3	Standard
>	Sc	45		ug/L			548010	579699	1	Standard
	Na	23	**9945.958**	ug/L	145.838	1	206938	229036585	1	Standard
	Mg	24	**4829.566**	ug/L	90.621	1	2880	146975988	0	Standard
	Al	27	**0.835**	ug/L	0.015	1	3738	26818	2	Standard
	Cr	52	**0.059**	ug/L	0.011	18	18808	21138	0	Standard
	Cr	53	**0.477**	ug/L	0.036	7	545	1739	4	Standard
	Fe	54	**11.900**	ug/L	0.115	0	77311	114945	1	Standard
	Fe	57	**26.753**	ug/L	1.076	4	20178	51774	1	Standard
	Mn	55	**61.374**	ug/L	3.730	6	497	2142959	6	Standard
>	Ge	72		ug/L			40161	36022	7	KED
	Ni	60	**0.357**	ug/L	0.029	8	23	572	6	KED
	Ni	62	**0.350**	ug/L	0.060	17	12	97	12	KED
	Cu	63	**0.187**	ug/L	0.016	8	63	874	1	KED
	Cu	65	**0.175**	ug/L	0.013	7	31	413	1	KED
	Zn	66	**0.271**	ug/L	0.035	12	41	188	15	KED
	Zn	67	**0.653**	ug/L	0.064	9	9	67	1	KED
	As	75	**0.855**	ug/L	0.039	4	3	233	5	KED
	Y	89		ug/L			293931	296229	1	Standard
	Kr	83		ug/L			41	40	28	Standard
>	In-1	115		ug/L			9171	8535	0	KED
	Cd	111	**0.004**	ug/L	0.002	46	3	4	12	KED
	Cd	114	**0.003**	ug/L	0.007	262	3	4	109	KED
>	In	115		ug/L			523263	539125	1	Standard
	Ba	135	**7.094**	ug/L	0.132	1	41	46321	2	Standard
	Ba	137	**7.173**	ug/L	0.050	0	120	83140	2	Standard
>	Tb	159		ug/L			1275917	1312484	1	Standard
	Tl	205	**-0.002**	ug/L	0.000	18	295	167	13	Standard
	Pb	208	**0.001**	ug/L	0.000	47	400	485	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-15~~RE1~~
Sample Dil Factor: 5
Comments:
MB 4/26/23
Sample Date/Time: Thursday, April 27, 2023 03:51:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	46634	2	Standard
	Cl	**37**		ug/L			5295645	6111603	3	Standard
>	**Sc**	**45**		ug/L			548010	590692	0	Standard
	Na	**23**	**10164.686**	ug/L	206.968	2	206938	238521019	1	Standard
	Mg	**24**	**17105.407**	ug/L	725.684	4	2880	530561757	4	Standard
	Al	**27**	**4.302**	ug/L	0.083	1	3738	124089	1	Standard
	Cr	**52**	**0.026**	ug/L	0.016	62	18808	20839	1	Standard
	Cr	**53**	**0.019**	ug/L	0.021	109	545	635	7	Standard
	Fe	**54**	**42.652**	ug/L	1.591	3	77311	204465	2	Standard
	Fe	**57**	**84.921**	ug/L	1.597	1	20178	120197	2	Standard
	Mn	**55**	**41.936**	ug/L	0.810	1	497	1492222	2	Standard
>	**Ge**	**72**		ug/L			40161	38491	2	KED
	Ni	**60**	**0.886**	ug/L	0.050	5	23	1487	3	KED
	Ni	**62**	**0.786**	ug/L	0.030	3	12	220	2	KED
	Cu	**63**	**0.118**	ug/L	0.002	1	63	612	1	KED
	Cu	**65**	**0.129**	ug/L	0.021	16	31	333	13	KED
	Zn	**66**	**1.458**	ug/L	0.138	9	41	904	7	KED
	Zn	**67**	**1.909**	ug/L	0.044	2	9	195	0	KED
	As	**75**	**0.133**	ug/L	0.004	2	3	41	1	KED
	Y	**89**		ug/L			293931	292110	1	Standard
	Kr	**83**		ug/L			41	47	21	Standard
>	**In-1**	**115**		ug/L			9171	8559	2	KED
	Cd	**111**	**0.069**	ug/L	0.013	18	3	23	16	KED
	Cd	**114**	**0.083**	ug/L	0.016	19	3	65	17	KED
>	**In**	**115**		ug/L			523263	510255	1	Standard
	Ba	**135**	**9.754**	ug/L	0.061	0	41	60258	0	Standard
	Ba	**137**	**9.788**	ug/L	0.095	0	120	107342	1	Standard
>	**Tb**	**159**		ug/L			1275917	1298068	0	Standard
	Tl	**205**	**-0.002**	ug/L	0.000	2	295	168	2	Standard
	Pb	**208**	**0.091**	ug/L	0.002	2	400	9080	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 03:55:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	33294	2	Standard
	Cl	**37**		ug/L			5295645	5816569	2	Standard
>	**Sc**	**45**		ug/L			548010	547206	2	Standard
	Na	**23**	**-7.596**	ug/L	0.040	0	206938	41653	1	Standard
	Mg	**24**	**0.068**	ug/L	0.011	16	2880	4841	6	Standard
	Al	**27**	**-0.017**	ug/L	0.007	42	3738	3288	3	Standard
	Cr	**52**	**0.069**	ug/L	0.035	50	18808	20145	2	Standard
	Cr	**53**	**-0.097**	ug/L	0.003	3	545	321	0	Standard
	Fe	**54**	**2.160**	ug/L	0.748	34	77311	82853	0	Standard
	Fe	**57**	**-0.642**	ug/L	0.258	40	20178	19460	2	Standard
	Mn	**55**	**0.001**	ug/L	0.001	48	497	541	5	Standard
>	**Ge**	**72**		ug/L			40161	39763	1	KED
	Ni	**60**	**0.001**	ug/L	0.003	338	23	24	20	KED
	Ni	**62**	**-0.029**	ug/L	0.007	24	12	3	50	KED
	Cu	**63**	**-0.002**	ug/L	0.003	126	63	52	24	KED
	Cu	**65**	**0.001**	ug/L	0.002	260	31	33	13	KED
	Zn	**66**	**-0.018**	ug/L	0.013	72	41	30	27	KED
	Zn	**67**	**-0.012**	ug/L	0.011	93	9	8	13	KED
	As	**75**	**-0.004**	ug/L	0.003	90	3	1	50	KED
	Y	**89**		ug/L			293931	282031	3	Standard
	Kr	**83**		ug/L			41	39	21	Standard
>	**In-1**	**115**		ug/L			9171	8770	0	KED
	Cd	**111**	**-0.001**	ug/L	0.007	1397	3	3	69	KED
	Cd	**114**	**0.000**	ug/L	0.001	944	3	3	35	KED
>	**In**	**115**		ug/L			523263	519695	2	Standard
	Ba	**135**	**-0.000**	ug/L	0.001	912	41	40	16	Standard
	Ba	**137**	**-0.003**	ug/L	0.001	19	120	81	11	Standard
>	**Tb**	**159**		ug/L			1275917	1281515	0	Standard
	Tl	**205**	**-0.002**	ug/L	0.000	1	295	121	1	Standard
	Pb	**208**	**-0.000**	ug/L	0.000	137	400	387	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0453-04
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, April 27, 2023 04:00:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30857	63201	2	Standard
	Cl	37		ug/L			5295645	14751647	4	Standard
>	Sc	45		ug/L			548010	599835	2	Standard
	Na	23	S	ug/L	S	S	206938	S	S	Standard
	Mg	24	14363.067	ug/L	705.051	4	2880	452320815	5	Standard
	Al	27	15.204	ug/L	0.440	2	3738	434827	0	Standard
	Cr	52	1.638	ug/L	0.070	4	18808	56382	1	Standard
	Cr	53	17.805	ug/L	0.363	2	545	45512	1	Standard
	Fe	54	1976.382	ug/L	63.333	3	77311	5782376	2	Standard
	Fe	57	2019.440	ug/L	73.940	3	20178	2398263	2	Standard
	Mn	55	47.708	ug/L	1.272	2	497	1723121	0	Standard
>	Ge	72		ug/L			40161	36799	1	KED
	Ni	60	0.155	ug/L	0.011	7	23	266	5	KED
	Ni	62	0.179	ug/L	0.070	39	12	56	31	KED
	Cu	63	0.106	ug/L	0.003	3	63	533	3	KED
	Cu	65	0.113	ug/L	0.007	6	31	283	4	KED
	Zn	66	0.369	ug/L	0.048	13	41	247	10	KED
	Zn	67	0.838	ug/L	0.123	14	9	86	12	KED
	As	75	0.431	ug/L	0.037	8	3	121	7	KED
	Y	89		ug/L			293931	287304	1	Standard
	Kr	83		ug/L			41	97	5	Standard
>	In-1	115		ug/L			9171	8124	0	KED
	Cd	111	0.006	ug/L	0.006	97	3	4	34	KED
	Cd	114	-0.001	ug/L	0.003	190	3	1	107	KED
>	In	115		ug/L			523263	477211	1	Standard
	Ba	135	7.894	ug/L	0.214	2	41	45600	1	Standard
	Ba	137	8.043	ug/L	0.145	1	120	82492	0	Standard
>	Tb	159		ug/L			1275917	1258871	0	Standard
	Tl	205	-0.002	ug/L	0.000	8	295	141	8	Standard
	Pb	208	0.005	ug/L	0.000	8	400	869	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0435-08
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, April 27, 2023 04:05:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30857	47776	1	Standard
	Cl	37		ug/L			5295645	5838211	2	Standard
>	Sc	45		ug/L			548010	559844	2	Standard
	Na	23	4398.610	ug/L	107.067	2	206938	97957956	3	Standard
	Mg	24	3530.829	ug/L	116.475	3	2880	103774005	3	Standard
	Al	27	6.358	ug/L	0.113	1	3738	171983	1	Standard
	Cr	52	0.623	ug/L	0.026	4	18808	31924	3	Standard
	Cr	53	0.756	ug/L	0.012	1	545	2336	0	Standard
	Fe	54	304.777	ug/L	9.160	3	77311	899116	2	Standard
	Fe	57	336.180	ug/L	6.598	1	20178	389872	1	Standard
	Mn	55	45.611	ug/L	0.579	1	497	1537900	1	Standard
>	Ge	72		ug/L			40161	39817	2	KED
	Ni	60	1.217	ug/L	0.047	3	23	2104	1	KED
	Ni	62	1.300	ug/L	0.135	10	12	369	7	KED
	Cu	63	2.896	ug/L	0.049	1	63	14090	1	KED
	Cu	65	3.001	ug/L	0.113	3	31	7362	1	KED
	Zn	66	0.645	ug/L	0.026	4	41	437	1	KED
	Zn	67	1.065	ug/L	0.160	15	9	116	11	KED
	As	75	3.430	ug/L	0.090	2	3	1028	0	KED
	Y	89		ug/L			293931	291218	2	Standard
	Kr	83		ug/L			41	46	8	Standard
>	In-1	115		ug/L			9171	8863	5	KED
	Cd	111	0.011	ug/L	0.012	109	3	6	51	KED
	Cd	114	0.017	ug/L	0.002	12	3	16	7	KED
>	In	115		ug/L			523263	515940	1	Standard
	Ba	135	8.505	ug/L	0.072	0	41	53130	0	Standard
	Ba	137	8.631	ug/L	0.072	0	120	95711	1	Standard
>	Tb	159		ug/L			1275917	1281238	2	Standard
	Tl	205	0.004	ug/L	0.000	5	295	586	1	Standard
	Pb	208	0.062	ug/L	0.001	2	400	6284	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0435-03
Sample Dil Factor: 10
Comments:
Sample Date/Time: Thursday, April 27, 2023 04:11:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30857	45558	2	Standard
	Cl	37		ug/L			5295645	6382219	2	Standard
>	Sc	45		ug/L			548010	569937	0	Standard
	Na	23	11036.035	ug/L	374.977	3	206938	249829165	3	Standard
	Mg	24	3682.148	ug/L	79.179	2	2880	110192743	2	Standard
	Al	27	3.425	ug/L	0.035	1	3738	96114	1	Standard
	Cr	52	0.316	ug/L	0.013	4	18808	26124	1	Standard
	Cr	53	0.448	ug/L	0.016	3	545	1641	2	Standard
	Fe	54	3396.115	ug/L	58.299	1	77311	9385674	1	Standard
	Fe	57	3592.316	ug/L	40.070	1	20178	4039028	1	Standard
	Mn	55	169.493	ug/L	1.992	1	497	5817879	1	Standard
>	Ge	72		ug/L			40161	38528	2	KED
	Ni	60	0.125	ug/L	0.007	5	23	229	7	KED
	Ni	62	0.135	ug/L	0.017	12	12	47	12	KED
	Cu	63	0.040	ug/L	0.002	4	63	249	5	KED
	Cu	65	0.047	ug/L	0.005	9	31	141	7	KED
	Zn	66	0.107	ug/L	0.040	37	41	103	21	KED
	Zn	67	1.200	ug/L	0.083	6	9	126	5	KED
	As	75	0.542	ug/L	0.003	0	3	159	2	KED
	Y	89		ug/L			293931	288330	0	Standard
	Kr	83		ug/L			41	53	12	Standard
>	In-1	115		ug/L			9171	8537	2	KED
	Cd	111	-0.002	ug/L	0.005	193	3	2	57	KED
	Cd	114	-0.001	ug/L	0.001	222	3	2	38	KED
>	In	115		ug/L			523263	501947	0	Standard
	Ba	135	16.225	ug/L	0.313	1	41	98582	2	Standard
	Ba	137	16.122	ug/L	0.172	1	120	173833	0	Standard
>	Tb	159		ug/L			1275917	1290017	0	Standard
	Tl	205	-0.002	ug/L	0.000	11	295	129	15	Standard
	Pb	208	0.005	ug/L	0.000	3	400	878	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 04:16:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	31628	1	Standard
	Cl	**37**		ug/L			5295645	5498219	0	Standard
⌈>	**Sc**	**45**		ug/L			548010	507920	5	Standard
|	**Na**	**23**	**-2.602**	ug/L	1.139	43	206938	138575	11	Standard
|	**Mg**	**24**	**0.169**	ug/L	0.235	138	2880	6996	82	Standard
|	**Al**	**27**	**-0.013**	ug/L	0.006	48	3738	3152	1	Standard
|	**Cr**	**52**	**0.035**	ug/L	0.038	109	18808	18059	2	Standard
|	**Cr**	**53**	**-0.079**	ug/L	0.012	15	545	337	3	Standard
|	**Fe**	**54**	**4.491**	ug/L	3.651	81	77311	82283	5	Standard
|	**Fe**	**57**	**-2.922**	ug/L	1.378	47	20178	15739	3	Standard
⌊	**Mn**	**55**	**0.008**	ug/L	0.009	114	497	690	33	Standard
⌈>	**Ge**	**72**		ug/L			40161	39351	1	KED
|	**Ni**	**60**	**0.002**	ug/L	0.005	231	23	26	31	KED
|	**Ni**	**62**	**-0.004**	ug/L	0.015	410	12	10	36	KED
|	**Cu**	**63**	**-0.000**	ug/L	0.001	101605	63	62	10	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.004	175	31	26	36	KED
|	**Zn**	**66**	**0.006**	ug/L	0.017	290	41	44	21	KED
|	**Zn**	**67**	**0.002**	ug/L	0.051	2345	9	9	52	KED
⌊	**As**	**75**	**-0.000**	ug/L	0.004	1174	3	2	44	KED
	Y	**89**		ug/L			293931	269797	6	Standard
	Kr	**83**		ug/L			41	53	16	Standard
⌈>	**In-1**	**115**		ug/L			9171	8728	1	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.003	188	3	2	33	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.001	226	3	2	42	KED
⌈>	**In**	**115**		ug/L			523263	490677	4	Standard
|	**Ba**	**135**	**0.001**	ug/L	0.000	50	41	44	10	Standard
⌊	**Ba**	**137**	**-0.002**	ug/L	0.002	83	120	90	15	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1207554	4	Standard
|	**Tl**	**205**	**-0.002**	ug/L	0.000	21	295	161	12	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	511	400	370	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 04:21:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30857	32166	2	Standard
	Cl	37		ug/L			5295645	5688230	4	Standard
>	Sc	45		ug/L			548010	548116	0	Standard
	Na	23	4262.469	ug/L	130.701	3	206938	92926657	2	Standard
	Mg	24	4302.186	ug/L	110.269	2	2880	123805187	2	Standard
	Al	27	4470.501	ug/L	119.771	2	3738	115782091	2	Standard
	Cr	52	49.302	ug/L	0.598	1	18808	1003880	0	Standard
	Cr	53	50.595	ug/L	0.607	1	545	117198	0	Standard
	Fe	54	4240.403	ug/L	140.510	3	77311	11250581	2	Standard
	Fe	57	4283.864	ug/L	67.914	1	20178	4627885	1	Standard
	Mn	55	45.756	ug/L	0.303	0	497	1510716	0	Standard
>	Ge	72		ug/L			40161	39291	2	KED
	Ni	60	48.914	ug/L	0.399	0	23	82625	1	KED
	Ni	62	48.667	ug/L	1.532	3	12	13244	2	KED
	Cu	63	48.615	ug/L	1.202	2	63	232473	2	KED
	Cu	65	48.469	ug/L	0.281	0	31	116975	2	KED
	Zn	66	49.187	ug/L	0.080	0	41	29833	2	KED
	Zn	67	51.307	ug/L	1.000	1	9	5124	0	KED
	As	75	50.275	ug/L	0.946	1	3	14839	0	KED
	Y	89		ug/L			293931	288008	2	Standard
	Kr	83		ug/L			41	40	14	Standard
>	In-1	115		ug/L			9171	8558	1	KED
	Cd	111	50.057	ug/L	0.668	1	3	14763	0	KED
	Cd	114	49.124	ug/L	1.127	2	3	37397	0	KED
>	In	115		ug/L			523263	516452	0	Standard
	Ba	135	51.651	ug/L	0.174	0	41	322790	0	Standard
	Ba	137	52.618	ug/L	0.226	0	120	583481	0	Standard
>	Tb	159		ug/L			1275917	1273814	0	Standard
	Tl	205	46.686	ug/L	0.491	1	295	3506940	0	Standard
	Pb	208	47.093	ug/L	0.861	1	400	4425927	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 04:28:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	31337	3	Standard
	Cl	**37**		ug/L			5295645	5363224	2	Standard
⌈>	**Sc**	**45**		ug/L			548010	534230	1	Standard
|	**Na**	**23**	**-5.328**	ug/L	0.057	1	206938	88757	0	Standard
|	**Mg**	**24**	**0.009**	ug/L	0.009	98	2880	3048	6	Standard
|	**Al**	**27**	**0.007**	ug/L	0.007	94	3738	3826	3	Standard
|	**Cr**	**52**	**-0.007**	ug/L	0.025	362	18808	18199	1	Standard
|	**Cr**	**53**	**-0.122**	ug/L	0.006	5	545	259	7	Standard
|	**Fe**	**54**	**0.924**	ug/L	0.205	22	77311	77734	1	Standard
|	**Fe**	**57**	**-1.652**	ug/L	0.599	36	20178	17939	4	Standard
⌊	**Mn**	**55**	**-0.000**	ug/L	0.001	472	497	480	5	Standard
⌈>	**Ge**	**72**		ug/L			40161	40532	1	KED
|	**Ni**	**60**	**0.009**	ug/L	0.014	153	23	39	60	KED
|	**Ni**	**62**	**0.013**	ug/L	0.028	209	12	15	48	KED
|	**Cu**	**63**	**0.006**	ug/L	0.011	190	63	93	59	KED
|	**Cu**	**65**	**0.010**	ug/L	0.014	135	31	57	59	KED
|	**Zn**	**66**	**0.018**	ug/L	0.017	95	41	53	18	KED
|	**Zn**	**67**	**-0.001**	ug/L	0.036	3223	9	9	40	KED
⌊	**As**	**75**	**0.008**	ug/L	0.015	177	3	5	79	KED
	Y	**89**		ug/L			293931	283367	2	Standard
	Kr	**83**		ug/L			41	50	15	Standard
⌈>	**In-1**	**115**		ug/L			9171	9031	0	KED
|	**Cd**	**111**	**0.006**	ug/L	0.003	55	3	5	20	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.004	219	3	4	66	KED
⌈>	**In**	**115**		ug/L			523263	520990	0	Standard
|	**Ba**	**135**	**0.003**	ug/L	0.001	43	41	59	14	Standard
⌊	**Ba**	**137**	**-0.002**	ug/L	0.002	110	120	100	22	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1261150	1	Standard
|	**Tl**	**205**	**0.000**	ug/L	0.000	125	295	309	6	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	50	400	366	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-17RE1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, April 27, 2023 04:33:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	43246	1	Standard
	Cl	**37**		ug/L			5295645	5700684	2	Standard
>	**Sc**	**45**		ug/L			548010	562420	0	Standard
	Na	**23**	**9713.921**	ug/L	296.015	3	206938	217011671	2	Standard
	Mg	**24**	**4810.707**	ug/L	201.910	4	2880	142024902	3	Standard
	Al	**27**	**2.898**	ug/L	0.024	0	3738	80842	0	Standard
	Cr	**52**	**0.087**	ug/L	0.013	14	18808	21091	0	Standard
	Cr	**53**	**0.382**	ug/L	0.041	10	545	1463	5	Standard
	Fe	**54**	**22.152**	ug/L	2.039	9	77311	139208	3	Standard
	Fe	**57**	**34.106**	ug/L	0.930	2	20178	58348	1	Standard
	Mn	**55**	**62.303**	ug/L	3.666	5	497	2109867	5	Standard
>	**Ge**	**72**		ug/L			40161	39372	2	KED
	Ni	**60**	**0.317**	ug/L	0.023	7	23	559	8	KED
	Ni	**62**	**0.273**	ug/L	0.033	12	12	86	12	KED
	Cu	**63**	**0.161**	ug/L	0.006	3	63	831	1	KED
	Cu	**65**	**0.169**	ug/L	0.014	8	31	441	9	KED
	Zn	**66**	**0.433**	ug/L	0.029	6	41	303	3	KED
	Zn	**67**	**0.767**	ug/L	0.181	23	9	85	18	KED
	As	**75**	**0.791**	ug/L	0.010	1	3	236	2	KED
	Y	**89**		ug/L			293931	291113	0	Standard
	Kr	**83**		ug/L			41	37	31	Standard
>	**In-1**	**115**		ug/L			9171	8594	1	KED
	Cd	**111**	**0.008**	ug/L	0.017	207	3	5	88	KED
	Cd	**114**	**0.004**	ug/L	0.010	245	3	6	130	KED
>	**In**	**115**		ug/L			523263	519589	2	Standard
	Ba	**135**	**7.350**	ug/L	0.148	2	41	46264	4	Standard
	Ba	**137**	**7.404**	ug/L	0.162	2	120	82675	0	Standard
>	**Tb**	**159**		ug/L			1275917	1301634	0	Standard
	Tl	**205**	**-0.002**	ug/L	0.000	19	295	181	11	Standard
	Pb	**208**	**0.004**	ug/L	0.000	6	400	793	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-19RE1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, April 27, 2023 04:38:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30857	39626	2	Standard
	Cl	37		ug/L			5295645	5712281	2	Standard
>	Sc	45		ug/L			548010	567842	0	Standard
	Na	23	9708.639	ug/L	358.094	3	206938	219007240	3	Standard
	Mg	24	4609.969	ug/L	105.730	2	2880	137437488	2	Standard
	Al	27	2.458	ug/L	0.025	1	3738	69834	0	Standard
	Cr	52	0.054	ug/L	0.046	85	18808	20605	4	Standard
	Cr	53	0.422	ug/L	0.017	3	545	1574	2	Standard
	Fe	54	16.635	ug/L	0.535	3	77311	125521	0	Standard
	Fe	57	31.979	ug/L	1.233	3	20178	56542	2	Standard
	Mn	55	57.529	ug/L	0.598	1	497	1967615	0	Standard
>	Ge	72		ug/L			40161	38507	1	KED
	Ni	60	0.286	ug/L	0.020	6	23	496	7	KED
	Ni	62	0.317	ug/L	0.054	17	12	95	14	KED
	Cu	63	0.197	ug/L	0.013	6	63	982	7	KED
	Cu	65	0.204	ug/L	0.009	4	31	513	4	KED
	Zn	66	0.478	ug/L	0.024	4	41	323	4	KED
	Zn	67	0.986	ug/L	0.224	22	9	105	20	KED
	As	75	0.860	ug/L	0.005	0	3	251	1	KED
	Y	89		ug/L			293931	288124	1	Standard
	Kr	83		ug/L			41	53	7	Standard
>	In-1	115		ug/L			9171	8566	1	KED
	Cd	111	0.001	ug/L	0.002	235	3	3	15	KED
	Cd	114	0.009	ug/L	0.005	52	3	9	35	KED
>	In	115		ug/L			523263	527401	2	Standard
	Ba	135	7.322	ug/L	0.117	1	41	46754	1	Standard
	Ba	137	7.322	ug/L	0.118	1	120	82994	1	Standard
>	Tb	159		ug/L			1275917	1286677	0	Standard
	Tl	205	-0.002	ug/L	0.000	6	295	158	4	Standard
	Pb	208	0.005	ug/L	0.001	9	400	896	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 04:43:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30857	51919	1	Standard
	Cl	37		ug/L			5295645	5273554	2	Standard
>	Sc	45		ug/L			548010	618201	0	Standard
	Na	23	9607.910	ug/L	184.944	1	206938	235973149	2	Standard
	Mg	24	10289.457	ug/L	119.394	1	2880	333976052	1	Standard
	Al	27	4.722	ug/L	0.102	2	3738	142137	1	Standard
	Cr	52	0.039	ug/L	0.028	72	18808	22105	2	Standard
	Cr	53	0.442	ug/L	0.029	6	545	1765	3	Standard
	Fe	54	252.461	ug/L	7.064	2	77311	837505	2	Standard
	Fe	57	274.500	ug/L	7.794	2	20178	355786	2	Standard
	Mn	55	130.728	ug/L	1.951	1	497	4866984	1	Standard
>	Ge	72		ug/L			40161	37130	0	KED
	Ni	60	2.422	ug/L	0.019	0	23	3887	0	KED
	Ni	62	2.252	ug/L	0.059	2	12	589	2	KED
	Cu	63	0.340	ug/L	0.007	2	63	1596	1	KED
	Cu	65	0.336	ug/L	0.018	5	31	795	4	KED
	Zn	66	5.561	ug/L	0.075	1	41	3221	1	KED
	Zn	67	5.916	ug/L	0.248	4	9	566	4	KED
	As	75	0.610	ug/L	0.039	6	3	172	6	KED
	Y	89		ug/L			293931	285102	1	Standard
	Kr	83		ug/L			41	53	5	Standard
>	In-1	115		ug/L			9171	8386	3	KED
	Cd	111	0.034	ug/L	0.018	53	3	13	40	KED
	Cd	114	0.036	ug/L	0.009	25	3	29	20	KED
>	In	115		ug/L			523263	515188	1	Standard
	Ba	135	12.283	ug/L	0.271	2	41	76595	1	Standard
	Ba	137	12.165	ug/L	0.135	1	120	134645	1	Standard
>	Tb	159		ug/L			1275917	1291294	1	Standard
	Tl	205	-0.001	ug/L	0.000	58	295	253	11	Standard
	Pb	208	0.094	ug/L	0.001	0	400	9364	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0180-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 04:48:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30857	50552	0	Standard
	Cl	37		ug/L			5295645	5198271	2	Standard
>	Sc	45		ug/L			548010	622403	1	Standard
	Na	23	9716.031	ug/L	71.274	0	206938	240235413	0	Standard
	Mg	24	10564.355	ug/L	349.149	3	2880	345130182	2	Standard
	Al	27	3.592	ug/L	0.035	0	3738	109900	1	Standard
	Cr	52	0.010	ug/L	0.011	107	18808	21587	0	Standard
	Cr	53	0.413	ug/L	0.010	2	545	1699	0	Standard
	Fe	54	261.365	ug/L	6.303	2	77311	869975	3	Standard
	Fe	57	281.232	ug/L	6.456	2	20178	366394	2	Standard
	Mn	55	130.193	ug/L	3.993	3	497	4879219	2	Standard
>	Ge	72		ug/L			40161	37151	0	KED
	Ni	60	2.423	ug/L	0.099	4	23	3891	4	KED
	Ni	62	2.451	ug/L	0.084	3	12	641	3	KED
	Cu	63	0.261	ug/L	0.005	2	63	1240	2	KED
	Cu	65	0.242	ug/L	0.006	2	31	580	1	KED
	Zn	66	1.488	ug/L	0.077	5	41	890	4	KED
	Zn	67	2.620	ug/L	0.256	9	9	255	9	KED
	As	75	0.600	ug/L	0.015	2	3	170	2	KED
	Y	89		ug/L			293931	288759	0	Standard
	Kr	83		ug/L			41	43	22	Standard
>	In-1	115		ug/L			9171	8284	0	KED
	Cd	111	0.021	ug/L	0.007	32	3	9	21	KED
	Cd	114	0.019	ug/L	0.010	53	3	16	44	KED
>	In	115		ug/L			523263	518778	1	Standard
	Ba	135	12.156	ug/L	0.196	1	41	76329	0	Standard
	Ba	137	12.240	ug/L	0.235	1	120	136417	1	Standard
>	Tb	159		ug/L			1275917	1303013	1	Standard
	Tl	205	-0.000	ug/L	0.000	85	295	267	10	Standard
	Pb	208	0.080	ug/L	0.000	0	400	8065	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0180-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 04:53:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30857	43177	3	Standard
	Cl	37		ug/L			5295645	5157764	1	Standard
>	Sc	45		ug/L			548010	614868	3	Standard
	Na	23	13746.291	ug/L	202.276	1	206938	335731952	3	Standard
	Mg	24	13991.028	ug/L	235.741	1	2880	451515216	1	Standard
	Al	27	3950.120	ug/L	120.277	3	3738	114695148	0	Standard
	Cr	52	21.996	ug/L	0.621	2	18808	513832	0	Standard
	Cr	53	22.318	ug/L	0.800	3	545	58298	1	Standard
	Fe	54	4142.499	ug/L	29.025	0	77311	12330942	2	Standard
	Fe	57	4179.969	ug/L	56.056	1	20178	5065539	2	Standard
	Mn	55	153.380	ug/L	2.056	1	497	5677943	1	Standard
>	Ge	72		ug/L			40161	37017	1	KED
	Ni	60	27.722	ug/L	0.495	1	23	44136	2	KED
	Ni	62	27.751	ug/L	0.721	2	12	7120	1	KED
	Cu	63	25.302	ug/L	0.351	1	63	114036	1	KED
	Cu	65	25.368	ug/L	0.104	0	31	57688	1	KED
	Zn	66	79.317	ug/L	0.465	0	41	45302	1	KED
	Zn	67	76.325	ug/L	1.182	1	9	7178	1	KED
	As	75	26.810	ug/L	0.446	1	3	7457	0	KED
	Y	89		ug/L			293931	278187	3	Standard
	Kr	83		ug/L			41	61	9	Standard
>	In-1	115		ug/L			9171	8129	1	KED
	Cd	111	25.362	ug/L	0.633	2	3	7106	1	KED
	Cd	114	24.961	ug/L	0.544	2	3	18052	0	KED
>	In	115		ug/L			523263	505080	1	Standard
	Ba	135	39.221	ug/L	0.947	2	41	239655	0	Standard
	Ba	137	40.092	ug/L	0.531	1	120	434807	2	Standard
>	Tb	159		ug/L			1275917	1254025	0	Standard
	Tl	205	22.527	ug/L	0.368	1	295	1666127	1	Standard
	Pb	208	23.301	ug/L	0.030	0	400	2156271	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLF
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 04:58:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	29159	3	Standard
	Cl	**37**		ug/L			5295645	4793667	2	Standard
⌈>	**Sc**	**45**		ug/L			548010	514391	1	Standard
|	**Na**	**23**	**-7.408**	ug/L	0.039	0	206938	42991	1	Standard
|	**Mg**	**24**	**0.276**	ug/L	0.027	9	2880	10149	5	Standard
|	**Al**	**27**	**0.240**	ug/L	0.004	1	3738	9345	1	Standard
|	**Cr**	**52**	**0.046**	ug/L	0.011	24	18808	18515	2	Standard
|	**Cr**	**53**	**-0.069**	ug/L	0.009	12	545	362	5	Standard
|	**Fe**	**54**	**1.816**	ug/L	0.448	24	77311	77062	2	Standard
|	**Fe**	**57**	**-2.601**	ug/L	0.097	3	20178	16314	0	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.001	32	497	540	4	Standard
⌈>	**Ge**	**72**		ug/L			40161	38316	1	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.000	1	23	13	0	KED
|	**Ni**	**62**	**-0.012**	ug/L	0.018	146	12	8	58	KED
|	**Cu**	**63**	**0.023**	ug/L	0.001	3	63	165	3	KED
|	**Cu**	**65**	**0.024**	ug/L	0.011	46	31	85	29	KED
|	**Zn**	**66**	**0.024**	ug/L	0.019	80	41	53	21	KED
|	**Zn**	**67**	**0.057**	ug/L	0.024	42	9	14	15	KED
⌊	**As**	**75**	**0.003**	ug/L	0.003	96	3	3	19	KED
	Y	**89**		ug/L			293931	283321	1	Standard
	Kr	**83**		ug/L			41	56	16	Standard
⌈>	**In-1**	**115**		ug/L			9171	8497	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.002	57	3	2	24	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.001	51	3	4	21	KED
⌈>	**In**	**115**		ug/L			523263	513186	2	Standard
|	**Ba**	**135**	**0.009**	ug/L	0.002	24	41	96	16	Standard
⌊	**Ba**	**137**	**0.003**	ug/L	0.002	52	120	151	11	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1250769	1	Standard
|	**Tl**	**205**	**-0.002**	ug/L	0.000	20	295	139	20	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	20	400	432	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 05:02:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30857	50452	1	Standard
	Cl	37		ug/L			5295645	5090185	2	Standard
>	Sc	45		ug/L			548010	600838	2	Standard
	Na	23	9998.959	ug/L	159.840	1	206938	238649841	2	Standard
	Mg	24	10557.197	ug/L	330.084	3	2880	333091020	4	Standard
	Al	27	1.634	ug/L	0.072	4	3738	50452	2	Standard
	Cr	52	0.006	ug/L	0.011	175	18808	20750	1	Standard
	Cr	53	0.383	ug/L	0.014	3	545	1565	3	Standard
	Fe	54	161.974	ug/L	4.095	2	77311	552568	2	Standard
	Fe	57	188.041	ug/L	6.388	3	20178	243757	2	Standard
	Mn	55	112.239	ug/L	4.092	3	497	4059034	1	Standard
>	Ge	72		ug/L			40161	36627	0	KED
	Ni	60	2.300	ug/L	0.028	1	23	3641	0	KED
	Ni	62	2.381	ug/L	0.040	1	12	614	1	KED
	Cu	63	0.277	ug/L	0.009	3	63	1294	2	KED
	Cu	65	0.298	ug/L	0.028	9	31	699	8	KED
	Zn	66	0.885	ug/L	0.049	5	41	537	5	KED
	Zn	67	1.587	ug/L	0.127	8	9	156	7	KED
	As	75	0.362	ug/L	0.018	4	3	102	4	KED
	Y	89		ug/L			293931	278442	2	Standard
	Kr	83		ug/L			41	35	17	Standard
>	In-1	115		ug/L			9171	8030	0	KED
	Cd	111	0.020	ug/L	0.003	16	3	8	11	KED
	Cd	114	0.023	ug/L	0.003	12	3	18	10	KED
>	In	115		ug/L			523263	505799	3	Standard
	Ba	135	12.238	ug/L	0.362	2	41	74875	1	Standard
	Ba	137	12.204	ug/L	0.578	4	120	132460	1	Standard
>	Tb	159		ug/L			1275917	1245515	3	Standard
	Tl	205	-0.000	ug/L	0.000	76	295	257	9	Standard
	Pb	208	0.007	ug/L	0.000	6	400	1027	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0181-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 05:07:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30857	51002	2	Standard
	Cl	37		ug/L			5295645	5050291	2	Standard
>	Sc	45		ug/L			548010	608969	1	Standard
	Na	23	9583.704	ug/L	251.636	2	206938	231794184	1	Standard
	Mg	24	10268.836	ug/L	433.225	4	2880	328188246	3	Standard
	Al	27	15.460	ug/L	0.231	1	3738	448915	0	Standard
	Cr	52	-0.005	ug/L	0.041	789	18808	20775	2	Standard
	Cr	53	0.377	ug/L	0.020	5	545	1570	1	Standard
	Fe	54	156.450	ug/L	5.181	3	77311	543758	0	Standard
	Fe	57	179.549	ug/L	2.766	1	20178	236962	1	Standard
	Mn	55	106.122	ug/L	3.092	2	497	3891074	2	Standard
>	Ge	72		ug/L			40161	36848	1	KED
	Ni	60	2.259	ug/L	0.021	0	23	3599	1	KED
	Ni	62	2.282	ug/L	0.058	2	12	593	1	KED
	Cu	63	0.326	ug/L	0.010	3	63	1521	4	KED
	Cu	65	0.321	ug/L	0.003	1	31	756	2	KED
	Zn	66	1.259	ug/L	0.085	6	41	753	4	KED
	Zn	67	1.916	ug/L	0.045	2	9	187	3	KED
	As	75	0.338	ug/L	0.011	3	3	96	3	KED
	Y	89		ug/L			293931	279174	1	Standard
	Kr	83		ug/L			41	40	26	Standard
>	In-1	115		ug/L			9171	8123	0	KED
	Cd	111	0.021	ug/L	0.018	89	3	8	59	KED
	Cd	114	0.021	ug/L	0.005	24	3	18	21	KED
>	In	115		ug/L			523263	505860	1	Standard
	Ba	135	11.947	ug/L	0.211	1	41	73162	2	Standard
	Ba	137	12.030	ug/L	0.088	0	120	130746	0	Standard
>	Tb	159		ug/L			1275917	1282648	1	Standard
	Tl	205	-0.000	ug/L	0.000	67	295	264	9	Standard
	Pb	208	0.048	ug/L	0.001	2	400	4949	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0181-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 05:12:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte		Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C		13		ug/L			30857	48913	1	Standard
	Cl		37		ug/L			5295645	5071511	2	Standard
>	Sc		45		ug/L			548010	593249	0	Standard
	Na		23	13358.804	ug/L	228.948	1	206938	314781594	2	Standard
	Mg		24	14003.383	ug/L	182.246	1	2880	436178250	1	Standard
	Al		27	3907.953	ug/L	130.535	3	3738	109561986	3	Standard
	Cr		52	21.525	ug/L	0.273	1	18808	485885	1	Standard
	Cr		53	22.178	ug/L	0.357	1	545	55932	1	Standard
	Fe		54	3950.974	ug/L	88.485	2	77311	11352782	2	Standard
	Fe		57	4138.124	ug/L	93.949	2	20178	4839479	2	Standard
	Mn	STL	55	125.265	ug/L	3.224	2	497	4475199	2	Standard
>	Ge		72		ug/L			40161	36486	0	KED
	Ni		60	26.508	ug/L	0.550	2	23	41590	1	KED
	Ni		62	26.753	ug/L	0.271	1	12	6767	1	KED
	Cu		63	24.743	ug/L	0.129	0	63	109922	0	KED
	Cu		65	24.718	ug/L	0.520	2	31	55401	1	KED
	Zn		66	79.503	ug/L	0.848	1	41	44753	0	KED
	Zn		67	75.159	ug/L	1.063	1	9	6968	1	KED
	As		75	26.402	ug/L	0.279	1	3	7239	0	KED
	Y		89		ug/L			293931	276662	3	Standard
	Kr		83		ug/L			41	60	14	Standard
>	In-1		115		ug/L			9171	7966	0	KED
	Cd		111	24.640	ug/L	0.636	2	3	6766	1	KED
	Cd		114	24.806	ug/L	0.380	1	3	17584	1	KED
>	In		115		ug/L			523263	506660	1	Standard
	Ba		135	37.983	ug/L	0.864	2	41	232844	1	Standard
	Ba		137	38.512	ug/L	1.341	3	120	418877	2	Standard
>	Tb		159		ug/L			1275917	1241752	0	Standard
	Tl		205	22.154	ug/L	0.529	2	295	1622555	2	Standard
	Pb		208	22.599	ug/L	0.215	0	400	2070812	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLG
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 05:17:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	29964	1	Standard
	Cl	**37**		ug/L			5295645	4782656	3	Standard
⌈>	**Sc**	**45**		ug/L			548010	505816	0	Standard
|	**Na**	**23**	**-7.992**	ug/L	0.034	0	206938	30551	1	Standard
|	**Mg**	**24**	**0.135**	ug/L	0.009	6	2880	6230	2	Standard
|	**Al**	**27**	**0.213**	ug/L	0.004	1	3738	8530	1	Standard
|	**Cr**	**52**	**0.046**	ug/L	0.030	64	18808	18211	2	Standard
|	**Cr**	**53**	**-0.096**	ug/L	0.004	3	545	299	2	Standard
|	**Fe**	**54**	**1.913**	ug/L	0.803	41	77311	76002	2	Standard
|	**Fe**	**57**	**-2.384**	ug/L	0.262	10	20178	16257	1	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.001	129	497	487	6	Standard
⌈>	**Ge**	**72**		ug/L			40161	38215	0	KED
|	**Ni**	**60**	**0.025**	ug/L	0.058	231	23	63	149	KED
|	**Ni**	**62**	**0.012**	ug/L	0.077	658	12	14	139	KED
|	**Cu**	**63**	**0.053**	ug/L	0.062	115	63	307	93	KED
|	**Cu**	**65**	**0.062**	ug/L	0.070	112	31	175	93	KED
|	**Zn**	**66**	**0.148**	ug/L	0.204	137	41	127	94	KED
|	**Zn**	**67**	**0.109**	ug/L	0.096	87	9	19	47	KED
⌊	**As**	**75**	**0.036**	ug/L	0.064	177	3	13	139	KED
	Y	**89**		ug/L			293931	274920	1	Standard
	Kr	**83**		ug/L			41	41	14	Standard
⌈>	**In-1**	**115**		ug/L			9171	8309	2	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.002	79	3	2	21	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.000	7	3	1	1	KED
⌈>	**In**	**115**		ug/L			523263	509930	0	Standard
|	**Ba**	**135**	**0.006**	ug/L	0.001	12	41	78	6	Standard
⌊	**Ba**	**137**	**0.003**	ug/L	0.003	103	120	147	20	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1243656	1	Standard
|	**Tl**	**205**	**-0.002**	ug/L	0.000	23	295	158	17	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	67	400	357	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVG
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 05:22:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30857	31006	1	Standard
	Cl	37		ug/L			5295645	5465756	3	Standard
>	Sc	45		ug/L			548010	519001	1	Standard
	Na	23	4343.953	ug/L	50.679	1	206938	89665695	0	Standard
	Mg	24	4354.996	ug/L	53.024	1	2880	118687392	2	Standard
	Al	27	4530.789	ug/L	65.137	1	3738	111126101	2	Standard
	Cr	52	49.897	ug/L	0.242	0	18808	961801	1	Standard
	Cr	53	49.712	ug/L	0.347	0	545	109042	1	Standard
	Fe	54	4367.713	ug/L	53.810	1	77311	10972976	2	Standard
	Fe	57	4473.430	ug/L	43.482	0	20178	4575765	2	Standard
	Mn	55	45.560	ug/L	0.729	1	497	1424485	2	Standard
>	Ge	72		ug/L			40161	38404	0	KED
	Ni	60	47.692	ug/L	1.267	2	23	78745	2	KED
	Ni	62	47.696	ug/L	0.379	0	12	12690	1	KED
	Cu	63	48.311	ug/L	0.876	1	63	225859	2	KED
	Cu	65	48.685	ug/L	0.399	0	31	114834	0	KED
	Zn	66	49.235	ug/L	0.336	0	41	29187	0	KED
	Zn	67	48.312	ug/L	1.526	3	9	4718	3	KED
	As	75	50.216	ug/L	0.523	1	3	14491	0	KED
	Y	89		ug/L			293931	273487	1	Standard
	Kr	83		ug/L			41	40	17	Standard
>	In-1	115		ug/L			9171	8158	1	KED
	Cd	111	50.206	ug/L	1.220	2	3	14115	1	KED
	Cd	114	50.141	ug/L	1.091	2	3	36392	1	KED
>	In	115		ug/L			523263	499216	1	Standard
	Ba	135	51.721	ug/L	1.369	2	41	312469	3	Standard
	Ba	137	53.572	ug/L	0.729	1	120	574245	1	Standard
>	Tb	159		ug/L			1275917	1252401	2	Standard
	Tl	205	47.111	ug/L	0.499	1	295	3478980	1	Standard
	Pb	208	47.220	ug/L	0.340	0	400	4363292	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBG
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 05:29:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	30406	1	Standard
	Cl	**37**		ug/L			5295645	5048168	1	Standard
⌈>	**Sc**	**45**		ug/L			548010	515685	1	Standard
|	**Na**	**23**	**-8.403**	ug/L	0.018	0	206938	22756	2	Standard
|	**Mg**	**24**	**0.005**	ug/L	0.003	73	2880	2836	4	Standard
|	**Al**	**27**	**-0.002**	ug/L	0.006	361	3738	3473	3	Standard
|	**Cr**	**52**	**0.015**	ug/L	0.005	37	18808	17972	1	Standard
|	**Cr**	**53**	**-0.134**	ug/L	0.007	5	545	222	7	Standard
|	**Fe**	**54**	**0.986**	ug/L	0.267	27	77311	75192	1	Standard
|	**Fe**	**57**	**1.404**	ug/L	0.217	15	20178	20409	1	Standard
⌊	**Mn**	**55**	**-0.000**	ug/L	0.001	618	497	462	5	Standard
⌈>	**Ge**	**72**		ug/L			40161	39027	0	KED
|	**Ni**	**60**	**-0.004**	ug/L	0.008	221	23	16	85	KED
|	**Ni**	**62**	**-0.018**	ug/L	0.008	46	12	6	31	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.001	106	63	55	12	KED
|	**Cu**	**65**	**0.002**	ug/L	0.003	150	31	34	17	KED
|	**Zn**	**66**	**0.011**	ug/L	0.028	240	41	47	34	KED
|	**Zn**	**67**	**-0.029**	ug/L	0.022	75	9	6	34	KED
⌊	**As**	**75**	**0.005**	ug/L	0.004	79	3	4	26	KED
	Y	**89**		ug/L			293931	273226	2	Standard
	Kr	**83**		ug/L			41	33	46	Standard
⌈>	**In-1**	**115**		ug/L			9171	8586	0	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.007	2125	3	3	62	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.006	141	3	6	76	KED
⌈>	**In**	**115**		ug/L			523263	500830	0	Standard
|	**Ba**	**135**	**0.003**	ug/L	0.001	33	41	57	10	Standard
⌊	**Ba**	**137**	**-0.003**	ug/L	0.002	51	120	83	20	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1237572	0	Standard
|	**Tl**	**205**	**-0.000**	ug/L	0.001	399	295	277	13	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.001	71581	400	387	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 05:34:36

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	57842	2	Standard
	Cl	**37**		ug/L			5295645	7036410	3	Standard
>	**Sc**	**45**		ug/L			548010	631491	1	Standard
	Na	**23**	**S**	ug/L	S	S	206938	S	S	Standard
	Mg	**24**	**25990.569**	ug/L	3286.438	12	2880	860936584	11	Standard
	Al	**27**	**1.105**	ug/L	0.030	2	3738	37270	1	Standard
	Cr	**52**	**0.047**	ug/L	0.021	45	18808	22756	2	Standard
	Cr	**53**	**1.364**	ug/L	0.020	1	545	4251	2	Standard
	Fe	**54**	**2566.153**	ug/L	51.809	2	77311	7880102	2	Standard
	Fe	**57**	**2755.555**	ug/L	30.422	1	20178	3437979	1	Standard
	Mn	**55**	**974.183**	ug/L	14.036	1	497	37041832	0	Standard
>	**Ge**	**72**		ug/L			40161	33082	1	KED
	Ni	**60**	**3.886**	ug/L	0.145	3	23	5543	2	KED
	Ni	**62**	**4.118**	ug/L	0.081	1	12	953	3	KED
	Cu	**63**	**0.272**	ug/L	0.015	5	63	1147	6	KED
	Cu	**65**	**0.273**	ug/L	0.015	5	31	580	6	KED
	Zn	**66**	**0.728**	ug/L	0.065	8	41	405	7	KED
	Zn	**67**	**4.430**	ug/L	0.435	9	9	379	9	KED
	As	**75**	**1.125**	ug/L	0.020	1	3	282	2	KED
	Y	**89**		ug/L			293931	271606	3	Standard
	Kr	**83**		ug/L			41	77	2	Standard
>	**In-1**	**115**		ug/L			9171	7417	1	KED
	Cd	**111**	**0.018**	ug/L	0.012	66	3	7	39	KED
	Cd	**114**	**0.028**	ug/L	0.006	21	3	21	18	KED
>	**In**	**115**		ug/L			523263	432507	3	Standard
	Ba	**135**	**76.490**	ug/L	3.503	4	41	399857	0	Standard
	Ba	**137**	**77.293**	ug/L	2.932	3	120	717132	1	Standard
>	**Tb**	**159**		ug/L			1275917	1177850	2	Standard
	Tl	**205**	**0.000**	ug/L	0.001	133	295	304	14	Standard
	Pb	**208**	**0.014**	ug/L	0.001	4	400	1603	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-14
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 05:39:22

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	59652	2	Standard
	Cl	**37**		ug/L			5295645	5447313	4	Standard
>	**Sc**	**45**		ug/L			548010	598959	1	Standard
	Na	**23**	**6800.878**	ug/L	185.337	2	206938	161915450	3	Standard
	Mg	**24**	**14265.496**	ug/L	584.635	4	2880	448465356	3	Standard
	Al	**27**	**4.587**	ug/L	0.126	2	3738	133884	2	Standard
	Cr	**52**	**0.383**	ug/L	0.044	11	18808	28915	2	Standard
	Cr	**53**	**0.451**	ug/L	0.027	5	545	1731	3	Standard
	Fe	**54**	**6.229**	ug/L	1.286	20	77311	102449	4	Standard
	Fe	**57**	**59.835**	ug/L	0.990	1	20178	92373	1	Standard
	Mn	**55**	**525.859**	ug/L	5.234	0	497	18964731	0	Standard
>	**Ge**	**72**		ug/L			40161	36686	0	KED
	Ni	**60**	**2.218**	ug/L	0.042	1	23	3518	2	KED
	Ni	**62**	**2.269**	ug/L	0.093	4	12	587	4	KED
	Cu	**63**	**1.987**	ug/L	0.013	0	63	8927	0	KED
	Cu	**65**	**1.980**	ug/L	0.015	0	31	4489	0	KED
	Zn	**66**	**1.050**	ug/L	0.066	6	41	631	5	KED
	Zn	**67**	**2.273**	ug/L	0.084	3	9	220	2	KED
	As	**75**	**0.359**	ug/L	0.025	6	3	101	6	KED
	Y	**89**		ug/L			293931	279254	1	Standard
	Kr	**83**		ug/L			41	52	5	Standard
>	**In-1**	**115**		ug/L			9171	8149	1	KED
	Cd	**111**	**0.095**	ug/L	0.005	5	3	29	4	KED
	Cd	**114**	**0.066**	ug/L	0.012	18	3	50	16	KED
>	**In**	**115**		ug/L			523263	494187	2	Standard
	Ba	**135**	**22.856**	ug/L	0.698	3	41	136634	1	Standard
	Ba	**137**	**23.081**	ug/L	0.851	3	120	244832	1	Standard
>	**Tb**	**159**		ug/L			1275917	1263284	0	Standard
	Tl	**205**	**0.002**	ug/L	0.001	36	295	474	14	Standard
	Pb	**208**	**0.012**	ug/L	0.001	8	400	1477	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-16
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 05:44:31

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	59276	2	Standard
	Cl	**37**		ug/L			5295645	5908784	3	Standard
⌈>	**Sc**	**45**		ug/L			548010	617337	2	Standard
|	**Na**	**23**	**28921.846**	ug/L	1613.269	5	206938	708475876	4	Standard
|	**Mg**	**24**	**S**	ug/L	S	S	2880	S	S	Standard
|	**Al**	**27**	**0.931**	ug/L	0.018	1	3738	31354	1	Standard
|	**Cr**	**52**	**0.030**	ug/L	0.006	21	18808	21857	2	Standard
|	**Cr**	**53**	**0.232**	ug/L	0.015	6	545	1216	3	Standard
|	**Fe**	**54**	**16.662**	ug/L	0.630	3	77311	136518	0	Standard
|	**Fe**	**57**	**192.672**	ug/L	2.357	1	20178	256114	1	Standard
⌊	**Mn**	**55**	**179.558**	ug/L	1.658	0	497	6675928	2	Standard
⌈>	**Ge**	**72**		ug/L			40161	32919	1	KED
|	**Ni**	**60**	**3.563**	ug/L	0.131	3	23	5060	2	KED
|	**Ni**	**62**	**3.516**	ug/L	0.089	2	12	810	1	KED
|	**Cu**	**63**	**0.216**	ug/L	0.005	2	63	916	1	KED
|	**Cu**	**65**	**0.216**	ug/L	0.010	4	31	462	3	KED
|	**Zn**	**66**	**1.304**	ug/L	0.023	1	41	695	1	KED
|	**Zn**	**67**	**3.311**	ug/L	0.170	5	9	284	5	KED
⌊	**As**	**75**	**0.507**	ug/L	0.045	8	3	127	8	KED
	Y	**89**		ug/L			293931	278994	1	Standard
	Kr	**83**		ug/L			41	74	10	Standard
⌈>	**In-1**	**115**		ug/L			9171	7610	1	KED
|	**Cd**	**111**	**0.158**	ug/L	0.010	6	3	44	6	KED
⌊	**Cd**	**114**	**0.185**	ug/L	0.023	12	3	127	13	KED
⌈>	**In**	**115**		ug/L			523263	447752	4	Standard
|	**Ba**	**135**	**47.747**	ug/L	0.588	1	41	258600	3	Standard
⌊	**Ba**	**137**	**48.107**	ug/L	2.569	5	120	461702	0	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1206681	0	Standard
|	**Tl**	**205**	**0.000**	ug/L	0.000	395	295	286	9	Standard
⌊	**Pb**	**208**	**0.028**	ug/L	0.001	3	400	2869	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-18
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 05:50:41

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	58172	2	Standard
	Cl	**37**		ug/L			5295645	6339358	3	Standard
⌈>	**Sc**	**45**		ug/L			548010	612570	1	Standard
|	**Na**	**23**	**S**	ug/L	S	S	206938	S	S	Standard
|	**Mg**	**24**	**19789.880**	ug/L	441.250	2	2880	636539938	3	Standard
|	**Al**	**27**	**3.253**	ug/L	0.070	2	3738	98350	3	Standard
|	**Cr**	**52**	**0.126**	ug/L	0.006	4	18808	23838	1	Standard
|	**Cr**	**53**	**2.099**	ug/L	0.031	1	545	6018	2	Standard
|	**Fe**	**54**	**52.724**	ug/L	1.267	2	77311	241700	2	Standard
|	**Fe**	**57**	**114.736**	ug/L	1.076	0	20178	160495	2	Standard
⌊	**Mn**	**55**	**254.040**	ug/L	2.317	0	497	9371923	2	Standard
⌈>	**Ge**	**72**		ug/L			40161	34592	0	KED
|	**Ni**	**60**	**1.559**	ug/L	0.048	3	23	2338	3	KED
|	**Ni**	**62**	**1.535**	ug/L	0.079	5	12	377	4	KED
|	**Cu**	**63**	**0.813**	ug/L	0.022	2	63	3477	2	KED
|	**Cu**	**65**	**0.840**	ug/L	0.005	0	31	1810	0	KED
|	**Zn**	**66**	**0.604**	ug/L	0.022	3	41	358	4	KED
|	**Zn**	**67**	**2.654**	ug/L	0.411	15	9	241	15	KED
⌊	**As**	**75**	**3.666**	ug/L	0.069	1	3	955	1	KED
	Y	**89**		ug/L			293931	267959	1	Standard
	Kr	**83**		ug/L			41	83	9	Standard
⌈>	**In-1**	**115**		ug/L			9171	7555	0	KED
|	**Cd**	**111**	**0.013**	ug/L	0.008	56	3	6	31	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.006	111	3	6	65	KED
⌈>	**In**	**115**		ug/L			523263	483331	2	Standard
|	**Ba**	**135**	**35.570**	ug/L	0.944	2	41	207965	0	Standard
⌊	**Ba**	**137**	**36.640**	ug/L	0.849	2	120	380146	0	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1229220	0	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.001	43	295	177	27	Standard
⌊	**Pb**	**208**	**0.011**	ug/L	0.000	2	400	1407	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLH
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 05:55:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	31224	4	Standard
	Cl	**37**		ug/L			5295645	5530246	3	Standard
⌈>	**Sc**	**45**		ug/L			548010	500410	1	Standard
|	**Na**	**23**	**3.920**	ug/L	9.280	236	206938	269117	71	Standard
|	**Mg**	**24**	**7.920**	ug/L	7.528	95	2880	213179	95	Standard
|	**Al**	**27**	**0.203**	ug/L	0.012	5	3738	8211	2	Standard
|	**Cr**	**52**	**0.030**	ug/L	0.022	74	18808	17717	1	Standard
|	**Cr**	**53**	**0.023**	ug/L	0.013	55	545	547	5	Standard
|	**Fe**	**54**	**2.791**	ug/L	0.578	20	77311	77291	0	Standard
|	**Fe**	**57**	**0.579**	ug/L	0.589	101	20178	18992	2	Standard
⌊	**Mn**	**55**	**0.063**	ug/L	0.059	92	497	2385	76	Standard
⌈>	**Ge**	**72**		ug/L			40161	37463	1	KED
|	**Ni**	**60**	**-0.004**	ug/L	0.006	161	23	15	60	KED
|	**Ni**	**62**	**-0.026**	ug/L	0.005	17	12	4	24	KED
|	**Cu**	**63**	**0.018**	ug/L	0.001	4	63	140	2	KED
|	**Cu**	**65**	**0.016**	ug/L	0.006	35	31	67	18	KED
|	**Zn**	**66**	**0.016**	ug/L	0.017	103	41	48	18	KED
|	**Zn**	**67**	**-0.033**	ug/L	0.053	158	9	5	88	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.004	97	3	1	56	KED
	Y	**89**		ug/L			293931	264198	2	Standard
	Kr	**83**		ug/L			41	42	31	Standard
⌈>	**In-1**	**115**		ug/L			9171	8093	2	KED
|	**Cd**	**111**	**0.000**	ug/L	0.002	563	3	3	17	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.003	135	3	1	188	KED
⌈>	**In**	**115**		ug/L			523263	493989	2	Standard
|	**Ba**	**135**	**0.015**	ug/L	0.008	55	41	128	41	Standard
⌊	**Ba**	**137**	**0.012**	ug/L	0.007	59	120	239	33	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1209953	0	Standard
|	**Tl**	**205**	**-0.002**	ug/L	0.000	13	295	107	21	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	46	400	422	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-20
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 06:00:08

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	57451	1	Standard
	Cl	**37**		ug/L			5295645	6200933	3	Standard
⌈>	**Sc**	**45**		ug/L			548010	600942	1	Standard
|	**Na**	**23**	**32421.064**	ug/L	1702.789	5	206938	773006009	3	Standard
|	**Mg**	**24**	**20163.660**	ug/L	445.632	2	2880	636047385	1	Standard
|	**Al**	**27**	**3.220**	ug/L	0.068	2	3738	95521	2	Standard
|	**Cr**	**52**	**0.125**	ug/L	0.043	34	18808	23360	2	Standard
|	**Cr**	**53**	**2.082**	ug/L	0.095	4	545	5860	4	Standard
|	**Fe**	**54**	**48.839**	ug/L	1.461	2	77311	225874	2	Standard
|	**Fe**	**57**	**111.376**	ug/L	1.009	0	20178	153476	2	Standard
⌊	**Mn**	**55**	**253.200**	ug/L	9.815	3	497	9158911	2	Standard
⌈>	**Ge**	**72**		ug/L			40161	34260	0	KED
|	**Ni**	**60**	**1.494**	ug/L	0.048	3	23	2219	3	KED
|	**Ni**	**62**	**1.424**	ug/L	0.151	10	12	347	10	KED
|	**Cu**	**63**	**0.755**	ug/L	0.010	1	63	3200	1	KED
|	**Cu**	**65**	**0.795**	ug/L	0.004	0	31	1700	0	KED
|	**Zn**	**66**	**0.420**	ug/L	0.029	6	41	257	5	KED
|	**Zn**	**67**	**2.411**	ug/L	0.391	16	9	217	15	KED
⌊	**As**	**75**	**3.685**	ug/L	0.032	0	3	951	0	KED
	Y	**89**		ug/L			293931	269551	2	Standard
	Kr	**83**		ug/L			41	64	33	Standard
⌈>	**In-1**	**115**		ug/L			9171	7615	2	KED
|	**Cd**	**111**	**0.001**	ug/L	0.002	220	3	3	17	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.003	41	3	7	25	KED
⌈>	**In**	**115**		ug/L			523263	491625	0	Standard
|	**Ba**	**135**	**35.006**	ug/L	0.576	1	41	208247	0	Standard
⌊	**Ba**	**137**	**35.583**	ug/L	0.071	0	120	375642	0	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1241618	1	Standard
|	**Tl**	**205**	**-0.002**	ug/L	0.000	13	295	151	10	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.001	19	400	749	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-15
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 06:04:53

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	59473	6	Standard
	Cl	**37**		ug/L			5295645	5708946	3	Standard
⌈>	**Sc**	**45**		ug/L			548010	602757	1	Standard
|	**Na**	**23**	**S**	ug/L	S	S	206938	S	S	Standard
|	**Mg**	**24**	**S**	ug/L	S	S	2880	S	S	Standard
|	**Al**	**27**	**17.581**	ug/L	0.266	1	3738	504868	2	Standard
|	**Cr**	**52**	**0.076**	ug/L	0.024	32	18808	22343	1	Standard
|	**Cr**	**53**	**0.327**	ug/L	0.002	0	545	1429	1	Standard
|	**Fe**	**54**	**181.627**	ug/L	4.654	2	77311	611342	2	Standard
|	**Fe**	**57**	**351.850**	ug/L	0.636	0	20178	438384	1	Standard
⌊	**Mn**	**55**	**180.906**	ug/L	1.580	0	497	6566579	1	Standard
⌈>	**Ge**	**72**		ug/L			40161	33062	0	KED
|	**Ni**	**60**	**3.956**	ug/L	0.097	2	23	5641	2	KED
|	**Ni**	**62**	**4.041**	ug/L	0.006	0	12	934	0	KED
|	**Cu**	**63**	**0.545**	ug/L	0.001	0	63	2245	0	KED
|	**Cu**	**65**	**0.546**	ug/L	0.018	3	31	1135	2	KED
|	**Zn**	**66**	**5.318**	ug/L	0.129	2	41	2745	2	KED
|	**Zn**	**67**	**6.686**	ug/L	0.173	2	9	568	2	KED
⌊	**As**	**75**	**0.715**	ug/L	0.020	2	3	180	2	KED
	Y	**89**		ug/L			293931	281553	1	Standard
	Kr	**83**		ug/L			41	66	29	Standard
⌈>	**In-1**	**115**		ug/L			9171	7247	3	KED
|	**Cd**	**111**	**0.384**	ug/L	0.056	14	3	98	11	KED
⌊	**Cd**	**114**	**0.342**	ug/L	0.025	7	3	223	8	KED
⌈>	**In**	**115**		ug/L			523263	445129	1	Standard
|	**Ba**	**135**	**48.897**	ug/L	0.880	1	41	263368	1	Standard
⌊	**Ba**	**137**	**50.209**	ug/L	0.382	0	120	479886	1	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1185977	1	Standard
|	**Tl**	**205**	**0.000**	ug/L	0.000	936	295	278	12	Standard
⌊	**Pb**	**208**	**0.414**	ug/L	0.007	1	400	36620	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-17
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 06:10:04

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	55973	5	Standard
	Cl	**37**		ug/L			5295645	6170757	3	Standard
⌈>	**Sc**	**45**		ug/L			548010	612604	0	Standard
|	**Na**	**23**	**S**	ug/L	S	S	206938	S	S	Standard
|	**Mg**	**24**	**19942.327**	ug/L	946.919	4	2880	641306268	4	Standard
|	**Al**	**27**	**12.070**	ug/L	0.104	0	3738	353540	1	Standard
|	**Cr**	**52**	**0.132**	ug/L	0.020	15	18808	23966	1	Standard
|	**Cr**	**53**	**2.096**	ug/L	0.101	4	545	6011	4	Standard
|	**Fe**	**54**	**85.407**	ug/L	3.710	4	77311	337907	2	Standard
|	**Fe**	**57**	**146.810**	ug/L	4.890	3	20178	199019	2	Standard
⌊	**Mn**	**55**	**247.903**	ug/L	9.880	3	497	9143356	3	Standard
⌈>	**Ge**	**72**		ug/L			40161	34001	0	KED
|	**Ni**	**60**	**1.569**	ug/L	0.050	3	23	2312	3	KED
|	**Ni**	**62**	**1.724**	ug/L	0.233	13	12	415	13	KED
|	**Cu**	**63**	**0.815**	ug/L	0.027	3	63	3427	2	KED
|	**Cu**	**65**	**0.820**	ug/L	0.029	3	31	1737	3	KED
|	**Zn**	**66**	**1.584**	ug/L	0.079	4	41	866	5	KED
|	**Zn**	**67**	**3.660**	ug/L	0.245	6	9	323	6	KED
⌊	**As**	**75**	**4.121**	ug/L	0.081	1	3	1055	1	KED
	Y	**89**		ug/L			293931	266767	2	Standard
	Kr	**83**		ug/L			41	69	13	Standard
⌈>	**In-1**	**115**		ug/L			9171	7458	1	KED
|	**Cd**	**111**	**0.010**	ug/L	0.012	120	3	5	56	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.005	54	3	7	36	KED
⌈>	**In**	**115**		ug/L			523263	495216	1	Standard
|	**Ba**	**135**	**35.567**	ug/L	1.061	2	41	213072	1	Standard
⌊	**Ba**	**137**	**35.642**	ug/L	1.068	2	120	378878	1	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1237462	1	Standard
|	**Tl**	**205**	**-0.002**	ug/L	0.000	16	295	169	12	Standard
⌊	**Pb**	**208**	**0.020**	ug/L	0.001	3	400	2225	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-19
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 06:16:14

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	56585	4	Standard
	Cl	**37**		ug/L			5295645	6096372	3	Standard
⌈>	**Sc**	**45**		ug/L			548010	610947	2	Standard
|	**Na**	**23**	**S**	ug/L	S	S	206938	S	S	Standard
|	**Mg**	**24**	**20103.876**	ug/L	331.407	1	2880	644867950	2	Standard
|	**Al**	**27**	**10.088**	ug/L	0.114	1	3738	295371	1	Standard
|	**Cr**	**52**	**0.134**	ug/L	0.028	21	18808	23950	2	Standard
|	**Cr**	**53**	**2.097**	ug/L	0.044	2	545	5997	3	Standard
|	**Fe**	**54**	**72.134**	ug/L	0.796	1	77311	298084	2	Standard
|	**Fe**	**57**	**133.465**	ug/L	2.713	2	20178	182470	0	Standard
⌊	**Mn**	**55**	**247.639**	ug/L	2.601	1	497	9109858	1	Standard
⌈>	**Ge**	**72**		ug/L			40161	33994	0	KED
|	**Ni**	**60**	**1.573**	ug/L	0.053	3	23	2318	3	KED
|	**Ni**	**62**	**1.603**	ug/L	0.308	19	12	387	18	KED
|	**Cu**	**63**	**0.813**	ug/L	0.009	1	63	3418	1	KED
|	**Cu**	**65**	**0.832**	ug/L	0.029	3	31	1763	3	KED
|	**Zn**	**66**	**1.306**	ug/L	0.064	4	41	720	4	KED
|	**Zn**	**67**	**3.432**	ug/L	0.174	5	9	304	5	KED
⌊	**As**	**75**	**3.976**	ug/L	0.084	2	3	1017	1	KED
	Y	**89**		ug/L			293931	276236	2	Standard
	Kr	**83**		ug/L			41	68	12	Standard
⌈>	**In-1**	**115**		ug/L			9171	7426	0	KED
|	**Cd**	**111**	**0.009**	ug/L	0.008	88	3	5	39	KED
⌊	**Cd**	**114**	**0.012**	ug/L	0.010	84	3	10	64	KED
⌈>	**In**	**115**		ug/L			523263	494979	2	Standard
|	**Ba**	**135**	**36.393**	ug/L	0.511	1	41	217948	1	Standard
⌊	**Ba**	**137**	**36.906**	ug/L	0.941	2	120	392131	1	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1279918	0	Standard
|	**Tl**	**205**	**-0.002**	ug/L	0.000	12	295	162	10	Standard
⌊	**Pb**	**208**	**0.021**	ug/L	0.001	4	400	2344	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 06:20:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	30651	3	Standard
	Cl	**37**		ug/L			5295645	5274098	2	Standard
⌈>	**Sc**	**45**		ug/L			548010	499764	0	Standard
|	**Na**	**23**	**-7.020**	ug/L	0.047	0	206938	49472	1	Standard
|	**Mg**	**24**	**0.385**	ug/L	0.034	8	2880	12728	6	Standard
|	**Al**	**27**	**0.200**	ug/L	0.009	4	3738	8119	1	Standard
|	**Cr**	**52**	**-0.004**	ug/L	0.007	186	18808	17081	1	Standard
|	**Cr**	**53**	**0.021**	ug/L	0.013	59	545	541	5	Standard
|	**Fe**	**54**	**2.183**	ug/L	0.323	14	77311	75751	1	Standard
|	**Fe**	**57**	**1.405**	ug/L	0.188	13	20178	19781	1	Standard
⌊	**Mn**	**55**	**0.006**	ug/L	0.001	10	497	631	2	Standard
⌈>	**Ge**	**72**		ug/L			40161	36797	2	KED
|	**Ni**	**60**	**-0.005**	ug/L	0.003	66	23	13	34	KED
|	**Ni**	**62**	**-0.033**	ug/L	0.004	13	12	2	43	KED
|	**Cu**	**63**	**0.023**	ug/L	0.003	15	63	161	8	KED
|	**Cu**	**65**	**0.025**	ug/L	0.007	29	31	86	17	KED
|	**Zn**	**66**	**0.016**	ug/L	0.016	99	41	47	21	KED
|	**Zn**	**67**	**-0.018**	ug/L	0.044	238	9	6	56	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.004	113	3	1	68	KED
	Y	**89**		ug/L			293931	257514	2	Standard
	Kr	**83**		ug/L			41	44	13	Standard
⌈>	**In-1**	**115**		ug/L			9171	7972	1	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.002	31	3	1	43	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.002	339	3	2	35	KED
⌈>	**In**	**115**		ug/L			523263	517346	1	Standard
|	**Ba**	**135**	**0.007**	ug/L	0.001	12	41	84	6	Standard
⌊	**Ba**	**137**	**0.002**	ug/L	0.000	18	120	146	2	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1238372	0	Standard
|	**Tl**	**205**	**-0.003**	ug/L	0.000	4	295	64	16	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	37	400	449	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVH
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 06:25:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30857	29408	2	Standard
	Cl	37		ug/L			5295645	5429197	3	Standard
>	Sc	45		ug/L			548010	504274	1	Standard
	Na	23	4420.766	ug/L	65.683	1	206938	88681040	2	Standard
	Mg	24	4385.403	ug/L	110.801	2	2880	116135841	3	Standard
	Al	27	4562.010	ug/L	54.521	1	3738	108691036	0	Standard
	Cr	52	49.547	ug/L	0.358	0	18808	928143	1	Standard
	Cr	53	49.606	ug/L	0.706	1	545	105737	2	Standard
	Fe	54	4395.088	ug/L	32.161	0	77311	10726169	1	Standard
	Fe	57	4470.521	ug/L	65.164	1	20178	4443212	2	Standard
	Mn	55	46.168	ug/L	0.907	1	497	1402226	1	Standard
>	Ge	72		ug/L			40161	36717	1	KED
	Ni	60	48.461	ug/L	0.478	0	23	76500	1	KED
	Ni	62	49.126	ug/L	0.547	1	12	12496	1	KED
	Cu	63	49.121	ug/L	0.272	0	63	219541	1	KED
	Cu	65	49.509	ug/L	0.894	1	31	111633	0	KED
	Zn	66	49.472	ug/L	0.463	0	41	28038	0	KED
	Zn	67	49.362	ug/L	0.986	1	9	4607	0	KED
	As	75	50.504	ug/L	0.688	1	3	13932	0	KED
	Y	89		ug/L			293931	270731	1	Standard
	Kr	83		ug/L			41	46	13	Standard
>	In-1	115		ug/L			9171	7975	3	KED
	Cd	111	50.074	ug/L	1.226	2	3	13758	0	KED
	Cd	114	49.578	ug/L	1.925	3	3	35156	1	KED
>	In	115		ug/L			523263	505809	1	Standard
	Ba	135	52.132	ug/L	0.860	1	41	319101	2	Standard
	Ba	137	53.540	ug/L	0.590	1	120	581494	1	Standard
>	Tb	159		ug/L			1275917	1273779	1	Standard
	Tl	205	47.279	ug/L	0.851	1	295	3550961	1	Standard
	Pb	208	47.515	ug/L	0.393	0	400	4465678	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBH
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 06:33:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	29215	4	Standard
	Cl	**37**		ug/L			5295645	5113174	2	Standard
⌈>	**Sc**	**45**		ug/L			548010	510608	1	Standard
|	**Na**	**23**	**-7.971**	ug/L	0.016	0	206938	31267	0	Standard
|	**Mg**	**24**	**0.022**	ug/L	0.001	5	2880	3281	1	Standard
|	**Al**	**27**	**0.004**	ug/L	0.007	188	3738	3567	4	Standard
|	**Cr**	**52**	**-0.031**	ug/L	0.011	36	18808	16952	1	Standard
|	**Cr**	**53**	**-0.142**	ug/L	0.003	1	545	203	3	Standard
|	**Fe**	**54**	**0.636**	ug/L	0.406	63	77311	73588	0	Standard
|	**Fe**	**57**	**-1.170**	ug/L	0.359	30	20178	17628	2	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.001	63	497	514	5	Standard
⌈>	**Ge**	**72**		ug/L			40161	37633	0	KED
|	**Ni**	**60**	**-0.001**	ug/L	0.002	355	23	20	18	KED
|	**Ni**	**62**	**-0.021**	ug/L	0.008	35	12	5	33	KED
|	**Cu**	**63**	**0.002**	ug/L	0.004	230	63	66	24	KED
|	**Cu**	**65**	**0.001**	ug/L	0.004	399	31	31	24	KED
|	**Zn**	**66**	**0.007**	ug/L	0.007	106	41	43	10	KED
|	**Zn**	**67**	**-0.014**	ug/L	0.019	140	9	7	25	KED
⌊	**As**	**75**	**0.001**	ug/L	0.001	86	3	3	8	KED
	Y	**89**		ug/L			293931	267986	1	Standard
	Kr	**83**		ug/L			41	31	9	Standard
⌈>	**In-1**	**115**		ug/L			9171	8574	1	KED
|	**Cd**	**111**	**0.001**	ug/L	0.010	1505	3	3	87	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.002	262	3	2	46	KED
⌈>	**In**	**115**		ug/L			523263	502426	0	Standard
|	**Ba**	**135**	**0.003**	ug/L	0.003	110	41	55	32	Standard
⌊	**Ba**	**137**	**-0.000**	ug/L	0.001	564	120	113	12	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1255080	0	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	16	295	206	6	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	140	400	406	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-05
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 06:37:58

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	62999	3	Standard
	Cl	**37**		ug/L			5295645	5373459	3	Standard
⌈>	**Sc**	**45**		ug/L			548010	614761	1	Standard
|	**Na**	**23**	**6111.044**	ug/L	89.505	1	206938	149353110	2	Standard
|	**Mg**	**24**	**S**	ug/L	S	S	2880	S	S	Standard
|	**Al**	**27**	**16.511**	ug/L	0.739	4	3738	483626	3	Standard
|	**Cr**	**52**	**0.220**	ug/L	0.024	10	18808	26017	1	Standard
|	**Cr**	**53**	**0.144**	ug/L	0.007	4	545	983	2	Standard
|	**Fe**	**54**	**85.144**	ug/L	1.392	1	77311	338400	2	Standard
|	**Fe**	**57**	**184.500**	ug/L	4.912	2	20178	245183	1	Standard
⌊	**Mn**	**55**	**7.185**	ug/L	0.146	2	497	266535	2	Standard
⌈>	**Ge**	**72**		ug/L			40161	35184	1	KED
|	**Ni**	**60**	**3.290**	ug/L	0.079	2	23	4995	0	KED
|	**Ni**	**62**	**3.190**	ug/L	0.084	2	12	787	2	KED
|	**Cu**	**63**	**3.149**	ug/L	0.040	1	63	13539	1	KED
|	**Cu**	**65**	**3.231**	ug/L	0.065	2	31	7006	1	KED
|	**Zn**	**66**	**2.260**	ug/L	0.036	1	41	1262	0	KED
|	**Zn**	**67**	**3.156**	ug/L	0.188	5	9	290	5	KED
⌊	**As**	**75**	**0.715**	ug/L	0.022	3	3	191	3	KED
	Y	**89**		ug/L			293931	273342	1	Standard
	Kr	**83**		ug/L			41	41	20	Standard
⌈>	**In-1**	**115**		ug/L			9171	7866	0	KED
|	**Cd**	**111**	**0.032**	ug/L	0.007	22	3	11	16	KED
⌊	**Cd**	**114**	**0.022**	ug/L	0.022	99	3	18	85	KED
⌈>	**In**	**115**		ug/L			523263	475097	1	Standard
|	**Ba**	**135**	**18.896**	ug/L	0.189	1	41	108645	0	Standard
⌊	**Ba**	**137**	**19.531**	ug/L	0.242	1	120	199274	0	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1251879	1	Standard
|	**Tl**	**205**	**0.000**	ug/L	0.000	25	295	303	1	Standard
⌊	**Pb**	**208**	**0.124**	ug/L	0.004	3	400	11809	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-07
Sample Dil Factor: DEL
Comments:
Sample Date/Time: Thursday, April 27, 2023 06:42:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	55738	2	Standard
	Cl	**37**		ug/L			5295645	7812256	3	Standard
⌈>	**Sc**	**45**		ug/L			548010	589500	0	Standard
|	**Na**	**23**	**S**	ug/L	S	S	206938	S	S	Standard
|	**Mg**	**24**	**29586.881**	ug/L	1089.082	3	2880	915558074	2	Standard
|	**Al**	**27**	**8.603**	ug/L	0.147	1	3738	243631	0	Standard
|	**Cr**	**52**	**0.176**	ug/L	0.005	2	18808	24016	1	Standard
|	**Cr**	**53**	**3.221**	ug/L	0.138	4	545	8576	4	Standard
|	**Fe**	**54**	**10.839**	ug/L	0.355	3	77311	113888	1	Standard
|	**Fe**	**57**	**91.412**	ug/L	2.131	2	20178	127445	1	Standard
⌊	**Mn**	**55**	**3.884**	ug/L	0.014	0	497	138420	0	Standard
⌈>	**Ge**	**72**		ug/L			40161	33822	1	KED
|	**Ni**	**60**	**1.034**	ug/L	0.055	5	23	1523	4	KED
|	**Ni**	**62**	**1.014**	ug/L	0.047	4	12	247	4	KED
|	**Cu**	**63**	**1.015**	ug/L	0.029	2	63	4231	1	KED
|	**Cu**	**65**	**0.999**	ug/L	0.008	0	31	2102	1	KED
|	**Zn**	**66**	**16.097**	ug/L	0.249	1	41	8427	1	KED
|	**Zn**	**67**	**16.735**	ug/L	0.068	0	9	1444	1	KED
⌊	**As**	**75**	**1.270**	ug/L	0.048	3	3	325	3	KED
	Y	**89**		ug/L			293931	268714	2	Standard
	Kr	**83**		ug/L			41	45	10	Standard
⌈>	**In-1**	**115**		ug/L			9171	7577	1	KED
|	**Cd**	**111**	**0.199**	ug/L	0.010	4	3	54	4	KED
⌊	**Cd**	**114**	**0.167**	ug/L	0.013	7	3	115	7	KED
⌈>	**In**	**115**		ug/L			523263	464656	2	Standard
|	**Ba**	**135**	**35.485**	ug/L	0.537	1	41	199475	1	Standard
⌊	**Ba**	**137**	**36.320**	ug/L	1.112	3	120	362213	1	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1201179	1	Standard
|	**Tl**	**205**	**0.000**	ug/L	0.000	39	295	296	1	Standard
⌊	**Pb**	**208**	**1.759**	ug/L	0.034	1	400	156257	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-09
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 06:47:54

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	51701	2	Standard
	Cl	**37**		ug/L			5295645	8957740	3	Standard
⌈>	**Sc**	**45**		ug/L			548010	586056	2	Standard
|	**Na**	**23**	**S**	ug/L	S	S	206938	S	S	Standard
|	**Mg**	**24**	**18496.052**	ug/L	478.148	2	2880	569014243	2	Standard
|	**Al**	**27**	**5.457**	ug/L	0.114	2	3738	155068	0	Standard
|	**Cr**	**52**	**1.911**	ug/L	0.087	4	18808	60934	2	Standard
|	**Cr**	**53**	**8.116**	ug/L	0.225	2	545	20584	0	Standard
|	**Fe**	**54**	**5.842**	ug/L	1.083	18	77311	99099	1	Standard
|	**Fe**	**57**	**51.813**	ug/L	2.235	4	20178	81142	2	Standard
⌊	**Mn**	**55**	**0.277**	ug/L	0.007	2	497	10312	3	Standard
⌈>	**Ge**	**72**		ug/L			40161	34507	1	KED
|	**Ni**	**60**	**0.160**	ug/L	0.021	13	23	257	11	KED
|	**Ni**	**62**	**0.132**	ug/L	0.038	28	12	41	20	KED
|	**Cu**	**63**	**0.692**	ug/L	0.007	0	63	2961	1	KED
|	**Cu**	**65**	**0.700**	ug/L	0.011	1	31	1511	1	KED
|	**Zn**	**66**	**1.776**	ug/L	0.072	4	41	980	4	KED
|	**Zn**	**67**	**2.907**	ug/L	0.177	6	9	262	6	KED
⌊	**As**	**75**	**0.583**	ug/L	0.013	2	3	153	3	KED
	Y	**89**		ug/L			293931	269053	1	Standard
	Kr	**83**		ug/L			41	36	16	Standard
⌈>	**In-1**	**115**		ug/L			9171	7584	1	KED
|	**Cd**	**111**	**0.080**	ug/L	0.026	32	3	23	28	KED
⌊	**Cd**	**114**	**0.078**	ug/L	0.015	19	3	54	17	KED
⌈>	**In**	**115**		ug/L			523263	471647	2	Standard
|	**Ba**	**135**	**19.853**	ug/L	0.387	1	41	113296	1	Standard
⌊	**Ba**	**137**	**20.248**	ug/L	0.403	1	120	205044	0	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1242548	1	Standard
|	**Tl**	**205**	**-0.002**	ug/L	0.000	2	295	123	3	Standard
⌊	**Pb**	**208**	**0.024**	ug/L	0.002	7	400	2626	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-11
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Thursday, April 27, 2023 06:54:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	49022	8	Standard
	Cl	**37**		ug/L			5295645	14849823	7	Standard
⌈>	**Sc**	**45**		ug/L			548010	511062	1	Standard
|	**Na**	**23**	**S**	ug/L	S	S	206938	S	S	Standard
|	**Mg**	**24**	**S**	ug/L	S	S	2880	S	S	Standard
|	**Al**	**27**	**45.339**	ug/L	0.724	1	3738	1098331	1	Standard
|	**Cr**	**52**	**0.799**	ug/L	0.036	4	18808	32422	2	Standard
|	**Cr**	**53**	**13.173**	ug/L	0.305	2	545	28829	2	Standard
|	**Fe**	**54**	**30.249**	ug/L	0.661	2	77311	146420	1	Standard
|	**Fe**	**57**	**134.015**	ug/L	3.943	2	20178	153221	2	Standard
⌊	**Mn**	**55**	**3.896**	ug/L	0.054	1	497	120370	2	Standard
⌈>	**Ge**	**72**		ug/L			40161	30081	0	KED
|	**Ni**	**60**	**1.695**	ug/L	0.063	3	23	2209	4	KED
|	**Ni**	**62**	**1.665**	ug/L	0.293	17	12	355	16	KED
|	**Cu**	**63**	**1.353**	ug/L	0.069	5	63	4998	4	KED
|	**Cu**	**65**	**1.325**	ug/L	0.033	2	31	2471	2	KED
|	**Zn**	**66**	**4.268**	ug/L	0.125	2	41	2010	2	KED
|	**Zn**	**67**	**5.430**	ug/L	0.372	6	9	421	6	KED
⌊	**As**	**75**	**0.552**	ug/L	0.033	5	3	126	6	KED
	Y	**89**		ug/L			293931	267755	3	Standard
	Kr	**83**		ug/L			41	56	1	Standard
⌈>	**In-1**	**115**		ug/L			9171	6689	2	KED
|	**Cd**	**111**	**0.552**	ug/L	0.033	6	3	129	5	KED
⌊	**Cd**	**114**	**0.570**	ug/L	0.025	4	3	341	3	KED
⌈>	**In**	**115**		ug/L			523263	458186	1	Standard
|	**Ba**	**135**	**42.182**	ug/L	0.926	2	41	233825	1	Standard
⌊	**Ba**	**137**	**42.792**	ug/L	0.412	0	120	420950	0	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1177904	0	Standard
|	**Tl**	**205**	**0.000**	ug/L	0.000	111	295	295	8	Standard
⌊	**Pb**	**208**	**0.103**	ug/L	0.001	0	400	9316	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLJ
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 06:58:45

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	31067	4	Standard
	Cl	**37**		ug/L			5295645	5116101	2	Standard
>	**Sc**	**45**		ug/L			548010	498447	2	Standard
	Na	**23**	**-4.701**	ug/L	0.339	7	206938	95101	4	Standard
	Mg	**24**	**0.575**	ug/L	0.059	10	2880	17652	6	Standard
	Al	**27**	**0.211**	ug/L	0.004	1	3738	8357	1	Standard
	Cr	**52**	**0.026**	ug/L	0.010	37	18808	17572	1	Standard
	Cr	**53**	**0.386**	ug/L	0.017	4	545	1305	1	Standard
	Fe	**54**	**3.278**	ug/L	0.639	19	77311	78151	1	Standard
	Fe	**57**	**11.109**	ug/L	0.602	5	20178	29210	0	Standard
	Mn	**55**	**-0.000**	ug/L	0.001	446	497	448	6	Standard
>	**Ge**	**72**		ug/L			40161	35598	0	KED
	Ni	**60**	**-0.003**	ug/L	0.005	157	23	15	48	KED
	Ni	**62**	**-0.028**	ug/L	0.016	55	12	3	100	KED
	Cu	**63**	**0.018**	ug/L	0.006	30	63	136	18	KED
	Cu	**65**	**0.027**	ug/L	0.003	10	31	86	7	KED
	Zn	**66**	**0.018**	ug/L	0.011	61	41	46	13	KED
	Zn	**67**	**-0.002**	ug/L	0.044	2369	9	8	48	KED
	As	**75**	**0.002**	ug/L	0.002	69	3	3	14	KED
	Y	**89**		ug/L			293931	270976	1	Standard
	Kr	**83**		ug/L			41	34	20	Standard
>	**In-1**	**115**		ug/L			9171	7554	0	KED
	Cd	**111**	**-0.006**	ug/L	0.006	91	3	1	114	KED
	Cd	**114**	**-0.001**	ug/L	0.000	20	3	1	8	KED
>	**In**	**115**		ug/L			523263	535162	3	Standard
	Ba	**135**	**0.005**	ug/L	0.005	94	41	74	37	Standard
	Ba	**137**	**0.001**	ug/L	0.002	224	120	130	10	Standard
>	**Tb**	**159**		ug/L			1275917	1273915	0	Standard
	Tl	**205**	**-0.002**	ug/L	0.000	9	295	166	6	Standard
	Pb	**208**	**0.001**	ug/L	0.000	34	400	446	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0690-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 07:03:31

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30857	33265	2	Standard
	Cl	37		ug/L			5295645	5750201	3	Standard
>	Sc	45		ug/L			548010	498597	1	Standard
	Na	23	**38605.412**	ug/L	718.246	1	206938	764158343	2	Standard
	Mg	24	**1648.070**	ug/L	47.550	2	2880	43157569	4	Standard
	Al	27	**0.365**	ug/L	0.014	3	3738	11990	1	Standard
	Cr	52	**0.094**	ug/L	0.008	9	18808	18817	1	Standard
	Cr	53	**1.636**	ug/L	0.050	3	545	3926	1	Standard
	Fe	54	**2.189**	ug/L	0.301	13	77311	75585	1	Standard
	Fe	57	**9.870**	ug/L	0.643	6	20178	28015	2	Standard
	Mn	55	**0.020**	ug/L	0.001	5	497	1058	4	Standard
>	Ge	72		ug/L			40161	34858	1	KED
	Ni	60	**-0.002**	ug/L	0.007	318	23	17	58	KED
	Ni	62	**-0.025**	ug/L	0.012	48	12	4	65	KED
	Cu	63	**0.103**	ug/L	0.003	3	63	493	4	KED
	Cu	65	**0.108**	ug/L	0.003	2	31	257	0	KED
	Zn	66	**0.317**	ug/L	0.063	19	41	206	15	KED
	Zn	67	**0.330**	ug/L	0.049	14	9	37	11	KED
	As	75	**1.396**	ug/L	0.052	3	3	367	1	KED
	Y	89		ug/L			293931	272763	1	Standard
	Kr	83		ug/L			41	34	17	Standard
>	In-1	115		ug/L			9171	7520	2	KED
	Cd	111	**-0.006**	ug/L	0.002	32	3	1	43	KED
	Cd	114	**-0.000**	ug/L	0.004	2377	3	2	121	KED
>	In	115		ug/L			523263	518669	1	Standard
	Ba	135	**0.822**	ug/L	0.017	2	41	5198	2	Standard
	Ba	137	**0.811**	ug/L	0.026	3	120	9143	2	Standard
>	Tb	159		ug/L			1275917	1264786	0	Standard
	Tl	205	**-0.002**	ug/L	0.000	14	295	114	23	Standard
	Pb	208	**0.002**	ug/L	0.000	13	400	570	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0292-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 07:08:17

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	32852	3	Standard
	Cl	**37**		ug/L			5295645	5634030	4	Standard
>	**Sc**	**45**		ug/L			548010	503790	0	Standard
	Na	**23**	**37762.959**	ug/L	270.425	0	206938	755251757	0	Standard
	Mg	**24**	**1582.225**	ug/L	45.378	2	2880	41851952	2	Standard
	Al	**27**	**0.250**	ug/L	0.014	5	3738	9382	4	Standard
	Cr	**52**	**0.061**	ug/L	0.020	33	18808	18419	2	Standard
	Cr	**53**	**1.391**	ug/L	0.025	1	545	3449	1	Standard
	Fe	**54**	**1.446**	ug/L	0.829	57	77311	74577	3	Standard
	Fe	**57**	**8.244**	ug/L	0.256	3	20178	26699	0	Standard
	Mn	**55**	**0.018**	ug/L	0.001	4	497	990	3	Standard
>	**Ge**	**72**		ug/L			40161	34808	1	KED
	Ni	**60**	**0.005**	ug/L	0.003	62	23	27	17	KED
	Ni	**62**	**-0.014**	ug/L	0.023	164	12	6	78	KED
	Cu	**63**	**0.037**	ug/L	0.003	7	63	213	3	KED
	Cu	**65**	**0.037**	ug/L	0.004	10	31	106	9	KED
	Zn	**66**	**0.243**	ug/L	0.040	16	41	166	11	KED
	Zn	**67**	**0.332**	ug/L	0.165	49	9	37	38	KED
	As	**75**	**1.346**	ug/L	0.028	2	3	354	3	KED
	Y	**89**		ug/L			293931	267429	2	Standard
	Kr	**83**		ug/L			41	50	9	Standard
>	**In-1**	**115**		ug/L			9171	7541	0	KED
	Cd	**111**	**-0.001**	ug/L	0.006	440	3	2	57	KED
	Cd	**114**	**-0.001**	ug/L	0.003	259	3	1	110	KED
>	**In**	**115**		ug/L			523263	518103	1	Standard
	Ba	**135**	**0.809**	ug/L	0.013	1	41	5112	0	Standard
	Ba	**137**	**0.826**	ug/L	0.014	1	120	9303	2	Standard
>	**Tb**	**159**		ug/L			1275917	1262079	1	Standard
	Tl	**205**	**-0.003**	ug/L	0.000	7	295	103	12	Standard
	Pb	**208**	**0.001**	ug/L	0.001	51	400	487	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0292-MS1

DEL

Sample Dil Factor: 20

Comments:

Sample Date/Time: Thursday, April 27, 2023 07:13:27

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30857	35816	1	Standard
	Cl	37		ug/L			5295645	5591645	2	Standard
>	Sc	45		ug/L			548010	497059	1	Standard
	Na	23	**37975.772**	ug/L	271.151	0	206938	749433433	2	Standard
	Mg	24	**1814.695**	ug/L	25.370	1	2880	47358874	2	Standard
	Al	27	**258.234**	ug/L	6.677	2	3738	6068684	3	Standard
	Cr	52	**1.327**	ug/L	0.037	2	18808	41100	1	Standard
	Cr	53	**2.680**	ug/L	0.050	1	545	6096	1	Standard
	Fe	54	**231.190**	ug/L	3.447	1	77311	622504	0	Standard
	Fe	57	**230.817**	ug/L	4.373	1	20178	243446	2	Standard
	Mn	55	**1.154**	ug/L	0.007	0	497	34991	1	Standard
>	Ge	72		ug/L			40161	34626	2	KED
	Ni	60	**1.315**	ug/L	0.021	1	23	1977	2	KED
	Ni	62	**1.270**	ug/L	0.166	13	12	314	10	KED
	Cu	63	**1.321**	ug/L	0.042	3	63	5620	2	KED
	Cu	65	**1.339**	ug/L	0.078	5	31	2872	4	KED
	Zn	66	**4.568**	ug/L	0.196	4	41	2472	1	KED
	Zn	67	**4.521**	ug/L	0.526	11	9	405	12	KED
	As	75	**2.660**	ug/L	0.066	2	3	694	3	KED
	Y	89		ug/L			293931	266629	2	Standard
	Kr	83		ug/L			41	49	30	Standard
>	In-1	115		ug/L			9171	7464	0	KED
	Cd	111	**1.342**	ug/L	0.070	5	3	347	5	KED
	Cd	114	**1.373**	ug/L	0.035	2	3	914	2	KED
>	In	115		ug/L			523263	517396	1	Standard
	Ba	135	**2.184**	ug/L	0.045	2	41	13708	1	Standard
	Ba	137	**2.236**	ug/L	0.054	2	120	24950	0	Standard
>	Tb	159		ug/L			1275917	1256695	1	Standard
	Tl	205	**1.177**	ug/L	0.024	2	295	87503	0	Standard
	Pb	208	**1.232**	ug/L	0.029	2	400	114580	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0292-MSD1

DEL

Sample Dil Factor: 20

Comments:

Sample Date/Time: Thursday, April 27, 2023 07:19:38

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30857	34460	1	Standard
	Cl	37		ug/L			5295645	5543421	4	Standard
>	Sc	45		ug/L			548010	493774	0	Standard
	Na	23	**38190.579**	ug/L	1683.187	4	206938	748601478	4	Standard
	Mg	24	**1803.383**	ug/L	53.058	2	2880	46753235	2	Standard
	Al	27	**237.869**	ug/L	4.744	1	3738	5553203	2	Standard
	Cr	52	**1.371**	ug/L	0.046	3	18808	41619	1	Standard
	Cr	53	**2.723**	ug/L	0.044	1	545	6147	1	Standard
	Fe	54	**230.644**	ug/L	7.293	3	77311	617198	2	Standard
	Fe	57	**225.497**	ug/L	6.588	2	20178	236682	2	Standard
	Mn	55	**1.179**	ug/L	0.023	1	497	35491	2	Standard
>	Ge	72		ug/L			40161	34630	0	KED
	Ni	60	**1.307**	ug/L	0.029	2	23	1965	2	KED
	Ni	62	**1.326**	ug/L	0.171	12	12	328	12	KED
	Cu	63	**1.386**	ug/L	0.016	1	63	5896	1	KED
	Cu	65	**1.385**	ug/L	0.048	3	31	2971	3	KED
	Zn	66	**4.421**	ug/L	0.225	5	41	2396	4	KED
	Zn	67	**4.349**	ug/L	0.262	6	9	390	5	KED
	As	75	**2.668**	ug/L	0.087	3	3	696	3	KED
	Y	89		ug/L			293931	262851	1	Standard
	Kr	83		ug/L			41	30	16	Standard
>	In-1	115		ug/L			9171	7718	1	KED
	Cd	111	**1.259**	ug/L	0.016	1	3	337	1	KED
	Cd	114	**1.217**	ug/L	0.033	2	3	837	1	KED
>	In	115		ug/L			523263	508364	0	Standard
	Ba	135	**2.237**	ug/L	0.026	1	41	13798	1	Standard
	Ba	137	**2.206**	ug/L	0.012	0	120	24188	0	Standard
>	Tb	159		ug/L			1275917	1265842	0	Standard
	Tl	205	**1.182**	ug/L	0.014	1	295	88558	1	Standard
	Pb	208	**1.212**	ug/L	0.007	0	400	113619	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLK

DEL

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 27, 2023 07:24:19

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	30352	1	Standard
	Cl	**37**		ug/L			5295645	4947323	2	Standard
⌈>	**Sc**	**45**		ug/L			548010	489644	0	Standard
|	**Na**	**23**	**-7.572**	ug/L	0.034	0	206938	37754	2	Standard
|	**Mg**	**24**	**0.088**	ug/L	0.007	8	2880	4848	4	Standard
|	**Al**	**27**	**0.213**	ug/L	0.006	2	3738	8261	2	Standard
|	**Cr**	**52**	**-0.017**	ug/L	0.024	137	18808	16494	3	Standard
|	**Cr**	**53**	**0.015**	ug/L	0.004	24	545	518	1	Standard
|	**Fe**	**54**	**3.310**	ug/L	0.493	14	77311	76872	2	Standard
|	**Fe**	**57**	**4.922**	ug/L	0.354	7	20178	22760	2	Standard
⌊	**Mn**	**55**	**0.000**	ug/L	0.000	71	497	454	0	Standard
⌈>	**Ge**	**72**		ug/L			40161	35299	0	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.003	51	23	12	36	KED
|	**Ni**	**62**	**-0.033**	ug/L	0.009	27	12	2	86	KED
|	**Cu**	**63**	**0.021**	ug/L	0.005	22	63	147	13	KED
|	**Cu**	**65**	**0.018**	ug/L	0.001	7	31	67	4	KED
|	**Zn**	**66**	**0.023**	ug/L	0.013	54	41	49	13	KED
|	**Zn**	**67**	**-0.001**	ug/L	0.054	4137	9	8	58	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.001	46	3	2	13	KED
	Y	**89**		ug/L			293931	260602	2	Standard
	Kr	**83**		ug/L			41	35	8	Standard
⌈>	**In-1**	**115**		ug/L			9171	7960	4	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.004	48	3	0	100	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.002	177	3	1	105	KED
⌈>	**In**	**115**		ug/L			523263	517510	1	Standard
|	**Ba**	**135**	**0.008**	ug/L	0.001	18	41	90	9	Standard
⌊	**Ba**	**137**	**0.004**	ug/L	0.003	74	120	160	17	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1234331	1	Standard
|	**Tl**	**205**	**-0.002**	ug/L	0.000	2	295	116	4	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	341	400	393	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVI

DEL

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 27, 2023 07:29:05

TUBE EMPTY

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			30857	24158	15	Standard
Cl	37		ug/L			5295645	2928551	5	Standard
> Sc	45		ug/L			548010	749036	18	Standard
Na	23	8.096	ug/L	24.303	300	206938	448005	125	Standard
Mg	24	15.439	ug/L	22.015	142	2880	520701	130	Standard
Al	27	14.850	ug/L	21.804	146	3738	448948	135	Standard
Cr	52	-0.444	ug/L	0.287	64	18808	12739	38	Standard
Cr	53	0.042	ug/L	0.284	673	545	784	84	Standard
Fe	54	43.166	ug/L	11.190	25	77311	258530	17	Standard
Fe	57	3.996	ug/L	24.936	624	20178	29552	93	Standard
Mn	55	0.167	ug/L	0.218	130	497	7190	104	Standard
> Ge	72		ug/L			40161	74062	0	KED
Ni	60	0.002	ug/L	0.005	203	23	50	30	KED
Ni	62	-0.025	ug/L	0.007	29	12	9	40	KED
Cu	63	0.006	ug/L	0.005	75	63	172	24	KED
Cu	65	0.005	ug/L	0.003	50	31	81	14	KED
Zn	66	-0.030	ug/L	0.005	17	41	43	13	KED
Zn	67	-0.036	ug/L	0.016	43	9	10	26	KED
As	75	0.000	ug/L	0.003	584371	3	5	30	KED
Y	89		ug/L			293931	396825	16	Standard
Kr	83		ug/L			41	250	53	Standard
> In-1	115		ug/L			9171	14146	11	KED
Cd	111	0.007	ug/L	0.009	136	3	8	62	KED
Cd	114	0.008	ug/L	0.010	118	3	15	92	KED
> In	115		ug/L			523263	777107	17	Standard
Ba	135	0.199	ug/L	0.277	139	41	1685	123	Standard
Ba	137	0.198	ug/L	0.294	148	120	3008	130	Standard
> Tb	159		ug/L			1275917	2196404	20	Standard
Tl	205	0.172	ug/L	0.241	139	295	19396	123	Standard
Pb	208	0.177	ug/L	0.257	145	400	24727	129	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBI

DEL

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 27, 2023 07:36:36

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	30715	0	Standard
	Cl	**37**		ug/L			5295645	5020687	2	Standard
⌈>	**Sc**	**45**		ug/L			548010	504466	2	Standard
|	**Na**	**23**	**-8.423**	ug/L	0.016	0	206938	21852	2	Standard
|	**Mg**	**24**	**-0.018**	ug/L	0.002	9	2880	2168	0	Standard
|	**Al**	**27**	**-0.019**	ug/L	0.001	5	3738	2981	1	Standard
|	**Cr**	**52**	**-0.036**	ug/L	0.022	62	18808	16654	1	Standard
|	**Cr**	**53**	**-0.116**	ug/L	0.006	4	545	255	5	Standard
|	**Fe**	**54**	**0.883**	ug/L	0.920	104	77311	73308	3	Standard
|	**Fe**	**57**	**2.419**	ug/L	0.607	25	20178	20968	3	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.001	144	497	440	3	Standard
⌈>	**Ge**	**72**		ug/L			40161	36721	1	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.002	29	23	12	24	KED
|	**Ni**	**62**	**-0.036**	ug/L	0.007	20	12	1	100	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.001	37	63	46	8	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.002	102	31	23	23	KED
|	**Zn**	**66**	**-0.003**	ug/L	0.008	292	41	36	10	KED
|	**Zn**	**67**	**-0.059**	ug/L	0.024	40	9	3	69	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.004	84	3	1	62	KED
	Y	**89**		ug/L			293931	264868	2	Standard
	Kr	**83**		ug/L			41	46	9	Standard
⌈>	**In-1**	**115**		ug/L			9171	8016	5	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.006	708	3	2	66	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.006	864	3	3	130	KED
⌈>	**In**	**115**		ug/L			523263	517986	1	Standard
|	**Ba**	**135**	**0.002**	ug/L	0.002	99	41	52	21	Standard
⌊	**Ba**	**137**	**-0.003**	ug/L	0.001	28	120	88	10	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1253793	0	Standard
|	**Tl**	**205**	**-0.003**	ug/L	0.000	12	295	99	24	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	47	400	348	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0658-02

DEL

Sample Dil Factor: 5

Comments:

Sample Date/Time: Thursday, April 27, 2023 07:41:23

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	36263	3	Standard
	Cl	**37**		ug/L			5295645	7177298	4	Standard
⌈>	**Sc**	**45**		ug/L			548010	496636	1	Standard
|	**Na**	**23**	**S**	ug/L	S	S	206938	S	S	Standard
|	**Mg**	**24**	**5503.925**	ug/L	98.954	1	2880	143509902	2	Standard
|	**Al**	**27**	**0.737**	ug/L	0.028	3	3738	20671	3	Standard
|	**Cr**	**52**	**0.385**	ug/L	0.046	11	18808	24017	5	Standard
|	**Cr**	**53**	**4.184**	ug/L	0.099	2	545	9238	4	Standard
|	**Fe**	**54**	**1.568**	ug/L	0.524	33	77311	73797	1	Standard
|	**Fe**	**57**	**9.446**	ug/L	0.508	5	20178	27493	2	Standard
⌊	**Mn**	**55**	**0.018**	ug/L	0.002	9	497	998	4	Standard
⌈>	**Ge**	**72**		ug/L			40161	33026	1	KED
|	**Ni**	**60**	**0.022**	ug/L	0.002	10	23	50	7	KED
|	**Ni**	**62**	**0.026**	ug/L	0.026	100	12	15	36	KED
|	**Cu**	**63**	**0.707**	ug/L	0.015	2	63	2894	3	KED
|	**Cu**	**65**	**0.695**	ug/L	0.011	1	31	1435	2	KED
|	**Zn**	**66**	**0.230**	ug/L	0.057	24	41	151	19	KED
|	**Zn**	**67**	**0.384**	ug/L	0.098	25	9	40	20	KED
⌊	**As**	**75**	**29.087**	ug/L	0.883	3	3	7217	1	KED
	Y	**89**		ug/L			293931	266265	0	Standard
	Kr	**83**		ug/L			41	42	45	Standard
⌈>	**In-1**	**115**		ug/L			9171	7218	2	KED
|	**Cd**	**111**	**0.012**	ug/L	0.007	61	3	5	28	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.006	75	3	7	52	KED
⌈>	**In**	**115**		ug/L			523263	487567	0	Standard
|	**Ba**	**135**	**4.513**	ug/L	0.096	2	41	26659	1	Standard
⌊	**Ba**	**137**	**4.539**	ug/L	0.065	1	120	47613	0	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1220275	1	Standard
|	**Tl**	**205**	**-0.003**	ug/L	0.000	10	295	102	18	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	15	400	598	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0658-04

DEL

Sample Dil Factor: 5

Comments:

Sample Date/Time: Thursday, April 27, 2023 07:46:09

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	34527	0	Standard
	Cl	**37**		ug/L			5295645	5149298	2	Standard
⌈>	**Sc**	**45**		ug/L			548010	514050	1	Standard
|	**Na**	**23**	**35514.690**	ug/L	3937.690	11	206938	723785568	9	Standard
|	**Mg**	**24**	**413.320**	ug/L	15.470	3	2880	11155603	3	Standard
|	**Al**	**27**	**0.977**	ug/L	0.024	2	3738	27236	0	Standard
|	**Cr**	**52**	**0.155**	ug/L	0.017	10	18808	20535	0	Standard
|	**Cr**	**53**	**0.982**	ug/L	0.006	0	545	2634	1	Standard
|	**Fe**	**54**	**0.920**	ug/L	1.031	112	77311	74765	1	Standard
|	**Fe**	**57**	**1.622**	ug/L	0.231	14	20178	20567	3	Standard
⌊	**Mn**	**55**	**0.060**	ug/L	0.003	4	497	2308	3	Standard
⌈>	**Ge**	**72**		ug/L			40161	34812	1	KED
|	**Ni**	**60**	**0.093**	ug/L	0.006	6	23	158	4	KED
|	**Ni**	**62**	**0.086**	ug/L	0.020	23	12	31	15	KED
|	**Cu**	**63**	**0.774**	ug/L	0.035	4	63	3331	3	KED
|	**Cu**	**65**	**0.782**	ug/L	0.043	5	31	1698	4	KED
|	**Zn**	**66**	**1.434**	ug/L	0.039	2	41	805	2	KED
|	**Zn**	**67**	**1.623**	ug/L	0.190	11	9	151	11	KED
⌊	**As**	**75**	**39.656**	ug/L	0.633	1	3	10372	0	KED
	Y	**89**		ug/L			293931	272282	3	Standard
	Kr	**83**		ug/L			41	37	17	Standard
⌈>	**In-1**	**115**		ug/L			9171	7558	2	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.002	31	3	1	43	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.006	94	3	6	60	KED
⌈>	**In**	**115**		ug/L			523263	522189	2	Standard
|	**Ba**	**135**	**4.413**	ug/L	0.121	2	41	27910	0	Standard
⌊	**Ba**	**137**	**4.511**	ug/L	0.180	3	120	50654	1	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1260881	1	Standard
|	**Tl**	**205**	**-0.002**	ug/L	0.000	8	295	128	12	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.000	5	400	913	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 07:51:19

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	38588	3	Standard
	Cl	**37**		ug/L			5295645	4899575	3	Standard
⌈>	**Sc**	**45**		ug/L			548010	512585	1	Standard
|	**Na**	**23**	**7414.878**	ug/L	259.601	3	206938	150991571	2	Standard
|	**Mg**	**24**	**2207.205**	ug/L	109.967	4	2880	59384126	4	Standard
|	**Al**	**27**	**0.385**	ug/L	0.025	6	3738	12826	3	Standard
|	**Cr**	**52**	**-0.002**	ug/L	0.024	1182	18808	17550	1	Standard
|	**Cr**	**53**	**0.142**	ug/L	0.020	13	545	815	4	Standard
|	**Fe**	**54**	**166.276**	ug/L	4.243	2	77311	481978	0	Standard
|	**Fe**	**57**	**172.612**	ug/L	3.958	2	20178	192471	1	Standard
⌊	**Mn**	**55**	**59.637**	ug/L	1.252	2	497	1840892	1	Standard
⌈>	**Ge**	**72**		ug/L			40161	35818	1	KED
|	**Ni**	**60**	**0.197**	ug/L	0.010	5	23	323	3	KED
|	**Ni**	**62**	**0.187**	ug/L	0.016	8	12	57	8	KED
|	**Cu**	**63**	**0.015**	ug/L	0.002	11	63	121	6	KED
|	**Cu**	**65**	**0.022**	ug/L	0.005	23	31	76	13	KED
|	**Zn**	**66**	**0.232**	ug/L	0.067	29	41	165	24	KED
|	**Zn**	**67**	**0.409**	ug/L	0.061	14	9	45	12	KED
⌊	**As**	**75**	**0.052**	ug/L	0.010	19	3	16	17	KED
	Y	**89**		ug/L			293931	272345	1	Standard
	Kr	**83**		ug/L			41	40	33	Standard
⌈>	**In-1**	**115**		ug/L			9171	7997	0	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.000	0	3	1		KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.005	67	3	7	43	KED
⌈>	**In**	**115**		ug/L			523263	531186	0	Standard
|	**Ba**	**135**	**3.553**	ug/L	0.086	2	41	22878	2	Standard
⌊	**Ba**	**137**	**3.526**	ug/L	0.054	1	120	40327	2	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1245991	2	Standard
|	**Tl**	**205**	**-0.002**	ug/L	0.000	3	295	111	3	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	41	400	507	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 07:56:29

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	34449	3	Standard
	Cl	**37**		ug/L			5295645	4813362	2	Standard
>	**Sc**	**45**		ug/L			548010	500598	0	Standard
	Na	**23**	**428.720**	ug/L	14.662	3	206938	8707319	3	Standard
	Mg	**24**	**1024.417**	ug/L	15.557	1	2880	26926901	1	Standard
	Al	**27**	**46.553**	ug/L	1.266	2	3738	1104603	3	Standard
	Cr	**52**	**0.082**	ug/L	0.012	14	18808	18676	0	Standard
	Cr	**53**	**0.065**	ug/L	0.004	5	545	635	1	Standard
	Fe	**54**	**58.169**	ug/L	2.347	4	77311	210643	3	Standard
	Fe	**57**	**61.072**	ug/L	1.602	2	20178	78432	2	Standard
	Mn	**55**	**44.675**	ug/L	0.259	0	497	1347199	1	Standard
>	**Ge**	**72**		ug/L			40161	36237	0	KED
	Ni	**60**	**0.224**	ug/L	0.009	3	23	370	3	KED
	Ni	**62**	**0.200**	ug/L	0.061	30	12	60	25	KED
	Cu	**63**	**0.192**	ug/L	0.007	3	63	902	3	KED
	Cu	**65**	**0.185**	ug/L	0.010	5	31	439	5	KED
	Zn	**66**	**0.795**	ug/L	0.079	9	41	481	8	KED
	Zn	**67**	**0.797**	ug/L	0.102	12	9	81	11	KED
	As	**75**	**0.037**	ug/L	0.011	28	3	12	22	KED
	Y	**89**		ug/L			293931	267112	1	Standard
	Kr	**83**		ug/L			41	42	29	Standard
>	**In-1**	**115**		ug/L			9171	7933	3	KED
	Cd	**111**	**0.014**	ug/L	0.007	46	3	6	28	KED
	Cd	**114**	**0.007**	ug/L	0.007	108	3	7	68	KED
>	**In**	**115**		ug/L			523263	527303	2	Standard
	Ba	**135**	**1.699**	ug/L	0.007	0	41	10882	2	Standard
	Ba	**137**	**1.711**	ug/L	0.042	2	120	19478	0	Standard
>	**Tb**	**159**		ug/L			1275917	1249321	0	Standard
	Tl	**205**	**-0.003**	ug/L	0.000	8	295	100	15	Standard
	Pb	**208**	**0.026**	ug/L	0.001	2	400	2770	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLL
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 08:01:16

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	30085	1	Standard
	Cl	**37**		ug/L			5295645	4885107	2	Standard
⌈>	**Sc**	**45**		ug/L			548010	486880	1	Standard
|	**Na**	**23**	**-8.060**	ug/L	0.084	1	206938	28120	7	Standard
|	**Mg**	**24**	**0.128**	ug/L	0.072	56	2880	5848	32	Standard
|	**Al**	**27**	**0.214**	ug/L	0.011	5	3738	8232	2	Standard
|	**Cr**	**52**	**-0.005**	ug/L	0.026	512	18808	16615	1	Standard
|	**Cr**	**53**	**-0.100**	ug/L	0.014	13	545	280	8	Standard
|	**Fe**	**54**	**3.416**	ug/L	1.195	34	77311	76702	4	Standard
|	**Fe**	**57**	**1.633**	ug/L	0.300	18	20178	19488	2	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.002	78	497	500	9	Standard
⌈>	**Ge**	**72**		ug/L			40161	36684	0	KED
|	**Ni**	**60**	**-0.005**	ug/L	0.006	126	23	13	67	KED
|	**Ni**	**62**	**-0.036**	ug/L	0.008	20	12	1	100	KED
|	**Cu**	**63**	**0.021**	ug/L	0.001	4	63	149	2	KED
|	**Cu**	**65**	**0.018**	ug/L	0.000	2	31	69	1	KED
|	**Zn**	**66**	**0.030**	ug/L	0.017	57	41	55	17	KED
|	**Zn**	**67**	**-0.025**	ug/L	0.012	47	9	6	17	KED
⌊	**As**	**75**	**0.000**	ug/L	0.008	2033	3	2	76	KED
	Y	**89**		ug/L			293931	263263	1	Standard
	Kr	**83**		ug/L			41	49	11	Standard
⌈>	**In-1**	**115**		ug/L			9171	7693	1	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.002	138	3	2	21	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.007	170	3	5	90	KED
⌈>	**In**	**115**		ug/L			523263	523717	1	Standard
|	**Ba**	**135**	**0.006**	ug/L	0.002	29	41	80	15	Standard
⌊	**Ba**	**137**	**0.000**	ug/L	0.002	480	120	124	14	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1241721	1	Standard
|	**Tl**	**205**	**-0.003**	ug/L	0.000	3	295	55	12	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	311	400	376	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0690-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 08:06:04

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	34072	3	Standard
	Cl	**37**		ug/L			5295645	5541216	3	Standard
>	**Sc**	**45**		ug/L			548010	489597	1	Standard
	Na	**23**	**S**	ug/L	S	S	206938	S	S	Standard
	Mg	**24**	**3400.958**	ug/L	104.257	3	2880	87440455	3	Standard
	Al	**27**	**0.640**	ug/L	0.006	0	3738	18133	0	Standard
	Cr	**52**	**0.279**	ug/L	0.038	13	18808	21790	3	Standard
	Cr	**53**	**1.158**	ug/L	0.022	1	545	2871	2	Standard
	Fe	**54**	**2.407**	ug/L	0.691	28	77311	74730	1	Standard
	Fe	**57**	**13.926**	ug/L	0.604	4	20178	31408	2	Standard
	Mn	**55**	**0.524**	ug/L	0.005	1	497	15905	1	Standard
>	**Ge**	**72**		ug/L			40161	34017	1	KED
	Ni	**60**	**0.072**	ug/L	0.016	22	23	125	17	KED
	Ni	**62**	**0.054**	ug/L	0.014	25	12	22	14	KED
	Cu	**63**	**0.042**	ug/L	0.004	9	63	229	9	KED
	Cu	**65**	**0.040**	ug/L	0.003	6	31	109	5	KED
	Zn	**66**	**0.312**	ug/L	0.037	12	41	198	8	KED
	Zn	**67**	**0.493**	ug/L	0.137	27	9	50	24	KED
	As	**75**	**1.555**	ug/L	0.039	2	3	400	4	KED
	Y	**89**		ug/L			293931	264209	1	Standard
	Kr	**83**		ug/L			41	40	8	Standard
>	**In-1**	**115**		ug/L			9171	7370	2	KED
	Cd	**111**	**0.000**	ug/L	0.004	1461	3	2	33	KED
	Cd	**114**	**-0.001**	ug/L	0.003	294	3	1	108	KED
>	**In**	**115**		ug/L			523263	509872	1	Standard
	Ba	**135**	**1.165**	ug/L	0.032	2	41	7227	2	Standard
	Ba	**137**	**1.191**	ug/L	0.030	2	120	13155	1	Standard
>	**Tb**	**159**		ug/L			1275917	1248217	1	Standard
	Tl	**205**	**-0.002**	ug/L	0.000	5	295	120	8	Standard
	Pb	**208**	**0.003**	ug/L	0.000	11	400	629	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0690-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 08:10:50

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30857	34810	7	Standard
	Cl	37		ug/L			5295645	6070838	4	Standard
>	Sc	45		ug/L			548010	502534	1	Standard
	Na	23	S	ug/L	S	S	206938	S	S	Standard
	Mg	24	3900.080	ug/L	85.737	2	2880	102918965	3	Standard
	Al	27	0.318	ug/L	0.010	3	3738	10986	3	Standard
	Cr	52	0.625	ug/L	0.017	2	18808	28705	1	Standard
	Cr	53	2.231	ug/L	0.052	2	545	5217	3	Standard
	Fe	54	1.426	ug/L	0.239	16	77311	74345	1	Standard
	Fe	57	15.900	ug/L	0.725	4	20178	34187	3	Standard
	Mn	55	0.015	ug/L	0.000	2	497	908	1	Standard
>	Ge	72		ug/L			40161	35729	0	KED
	Ni	60	0.115	ug/L	0.010	8	23	196	7	KED
	Ni	62	0.098	ug/L	0.032	32	12	34	22	KED
	Cu	63	0.068	ug/L	0.005	6	63	351	4	KED
	Cu	65	0.071	ug/L	0.017	23	31	182	19	KED
	Zn	66	0.233	ug/L	0.034	14	41	165	11	KED
	Zn	67	0.432	ug/L	0.021	4	9	47	4	KED
	As	75	3.949	ug/L	0.113	2	3	1062	1	KED
	Y	89		ug/L			293931	263984	1	Standard
	Kr	83		ug/L			41	40	26	Standard
>	In-1	115		ug/L			9171	7436	2	KED
	Cd	111	0.005	ug/L	0.012	235	3	4	74	KED
	Cd	114	-0.003	ug/L	0.002	51	3	0	199	KED
>	In	115		ug/L			523263	508060	0	Standard
	Ba	135	2.584	ug/L	0.106	4	41	15923	3	Standard
	Ba	137	2.621	ug/L	0.056	2	120	28694	1	Standard
>	Tb	159		ug/L			1275917	1242762	3	Standard
	Tl	205	-0.002	ug/L	0.000	3	295	107	2	Standard
	Pb	208	0.001	ug/L	0.000	41	400	476	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0690-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 08:15:30

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30857	37530	4	Standard
	Cl	37		ug/L			5295645	5472970	3	Standard
>	Sc	45		ug/L			548010	500344	1	Standard
	Na	23	**36337.516**	ug/L	771.623	2	206938	721722951	1	Standard
	Mg	24	**1006.575**	ug/L	46.204	4	2880	26438412	3	Standard
	Al	27	**0.655**	ug/L	0.018	2	3738	18906	3	Standard
	Cr	52	**13.343**	ug/L	0.131	0	18808	260529	1	Standard
	Cr	53	**14.098**	ug/L	0.311	2	545	30168	2	Standard
	Fe	54	**1.991**	ug/L	0.715	35	77311	75368	2	Standard
	Fe	57	**9.770**	ug/L	0.581	5	20178	28012	1	Standard
	Mn	55	**0.021**	ug/L	0.001	4	497	1100	3	Standard
>	Ge	72		ug/L			40161	34735	0	KED
	Ni	60	**0.626**	ug/L	0.053	8	23	954	8	KED
	Ni	62	**0.590**	ug/L	0.039	6	12	152	5	KED
	Cu	63	**0.055**	ug/L	0.004	7	63	288	5	KED
	Cu	65	**0.066**	ug/L	0.014	20	31	167	17	KED
	Zn	66	**0.294**	ug/L	0.031	10	41	193	8	KED
	Zn	67	**0.360**	ug/L	0.039	10	9	40	8	KED
	As	75	**3.100**	ug/L	0.088	2	3	811	2	KED
	Y	89		ug/L			293931	270959	3	Standard
	Kr	83		ug/L			41	34	16	Standard
>	In-1	115		ug/L			9171	7426	7	KED
	Cd	111	**-0.001**	ug/L	0.007	508	3	2	78	KED
	Cd	114	**0.004**	ug/L	0.003	76	3	4	44	KED
>	In	115		ug/L			523263	513516	3	Standard
	Ba	135	**0.778**	ug/L	0.021	2	41	4874	1	Standard
	Ba	137	**0.806**	ug/L	0.043	5	120	8992	3	Standard
>	Tb	159		ug/L			1275917	1264875	0	Standard
	Tl	205	**-0.003**	ug/L	0.000	5	295	88	13	Standard
	Pb	208	**0.002**	ug/L	0.000	11	400	626	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0690-09
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 08:20:40

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	33827	1	Standard
	Cl	**37**		ug/L			5295645	5533295	2	Standard
>	**Sc**	**45**		ug/L			548010	502774	0	Standard
	Na	**23**	**42720.430**	ug/L	981.135	2	206938	852647215	2	Standard
	Mg	**24**	**1203.179**	ug/L	41.693	3	2880	31759453	2	Standard
	Al	**27**	**9.021**	ug/L	0.268	2	3738	217707	2	Standard
	Cr	**52**	**2.116**	ug/L	0.089	4	18808	56040	2	Standard
	Cr	**53**	**2.975**	ug/L	0.019	0	545	6793	0	Standard
	Fe	**54**	**9.409**	ug/L	1.013	10	77311	93664	2	Standard
	Fe	**57**	**17.247**	ug/L	0.881	5	20178	35527	2	Standard
	Mn	**55**	**0.933**	ug/L	0.014	1	497	28716	1	Standard
>	**Ge**	**72**		ug/L			40161	34391	1	KED
	Ni	**60**	**0.108**	ug/L	0.017	15	23	179	15	KED
	Ni	**62**	**0.104**	ug/L	0.030	29	12	34	19	KED
	Cu	**63**	**0.081**	ug/L	0.011	13	63	393	10	KED
	Cu	**65**	**0.072**	ug/L	0.013	17	31	179	15	KED
	Zn	**66**	**0.338**	ug/L	0.045	13	41	214	9	KED
	Zn	**67**	**0.284**	ug/L	0.041	14	9	33	12	KED
	As	**75**	**8.129**	ug/L	0.150	1	3	2102	0	KED
	Y	**89**		ug/L			293931	269633	1	Standard
	Kr	**83**		ug/L			41	39	27	Standard
>	**In-1**	**115**		ug/L			9171	7521	2	KED
	Cd	**111**	**0.013**	ug/L	0.007	53	3	6	31	KED
	Cd	**114**	**0.003**	ug/L	0.004	120	3	4	59	KED
>	**In**	**115**		ug/L			523263	525827	2	Standard
	Ba	**135**	**0.750**	ug/L	0.013	1	41	4815	3	Standard
	Ba	**137**	**0.751**	ug/L	0.025	3	120	8591	3	Standard
>	**Tb**	**159**		ug/L			1275917	1255419	1	Standard
	Tl	**205**	**-0.001**	ug/L	0.000	24	295	212	10	Standard
	Pb	**208**	**0.019**	ug/L	0.001	6	400	2178	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLM
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 08:25:21

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	29721	3	Standard
	Cl	**37**		ug/L			5295645	5014262	2	Standard
⌈>	**Sc**	**45**		ug/L			548010	491509	2	Standard
|	**Na**	**23**	**-7.775**	ug/L	0.056	0	206938	33923	2	Standard
|	**Mg**	**24**	**0.081**	ug/L	0.004	5	2880	4676	2	Standard
|	**Al**	**27**	**0.219**	ug/L	0.005	2	3738	8426	1	Standard
|	**Cr**	**52**	**-0.002**	ug/L	0.014	660	18808	16828	1	Standard
|	**Cr**	**53**	**-0.049**	ug/L	0.006	13	545	388	2	Standard
|	**Fe**	**54**	**2.765**	ug/L	0.388	14	77311	75861	1	Standard
|	**Fe**	**57**	**9.636**	ug/L	0.473	4	20178	27385	0	Standard
⌊	**Mn**	**55**	**0.000**	ug/L	0.001	263	497	459	9	Standard
⌈>	**Ge**	**72**		ug/L			40161	32958	9	KED
|	**Ni**	**60**	**-0.008**	ug/L	0.003	40	23	7	50	KED
|	**Ni**	**62**	**-0.011**	ug/L	0.021	189	12	6	56	KED
|	**Cu**	**63**	**0.020**	ug/L	0.001	5	63	133	6	KED
|	**Cu**	**65**	**0.020**	ug/L	0.013	62	31	65	27	KED
|	**Zn**	**66**	**0.035**	ug/L	0.021	58	41	52	21	KED
|	**Zn**	**67**	**0.013**	ug/L	0.004	33	9	8	12	KED
⌊	**As**	**75**	**0.001**	ug/L	0.000	32	3	2	10	KED
	Y	**89**		ug/L			293931	259279	3	Standard
	Kr	**83**		ug/L			41	27	20	Standard
⌈>	**In-1**	**115**		ug/L			9171	7727	3	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.002	145	3	2	21	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.002	62	3	4	25	KED
⌈>	**In**	**115**		ug/L			523263	523250	0	Standard
|	**Ba**	**135**	**0.006**	ug/L	0.003	47	41	80	23	Standard
⌊	**Ba**	**137**	**0.002**	ug/L	0.001	48	120	142	7	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1244739	0	Standard
|	**Tl**	**205**	**-0.003**	ug/L	0.000	1	295	58	7	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	26	400	442	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVJ
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 08:30:07

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			30857	24972	5	Standard
Cl	37		ug/L			5295645	3075973	2	Standard
> Sc	45		ug/L			548010	851325	2	Standard
Na	23	-9.120	ug/L	0.000	0	206938	13315	2	Standard
Mg	24	-0.054	ug/L	0.001	1	2880	2055	2	Standard
Al	27	-0.060	ug/L	0.002	3	3738	3381	0	Standard
Cr	52	-0.670	ug/L	0.006	0	18808	8435	1	Standard
Cr	53	-0.148	ug/L	0.008	5	545	316	6	Standard
Fe	54	21.744	ug/L	7.496	34	77311	209002	14	Standard
Fe	57	-11.528	ug/L	0.063	0	20178	12086	1	Standard
Mn	55	0.004	ug/L	0.002	51	497	981	10	Standard
> Ge	72		ug/L			40161	69782	3	KED
Ni	60	-0.008	ug/L	0.002	22	23	17	32	KED
Ni	62	-0.032	ug/L	0.007	21	12	5	57	KED
Cu	63	-0.005	ug/L	0.000	10	63	71	6	KED
Cu	65	-0.006	ug/L	0.003	54	31	28	46	KED
Zn	66	-0.049	ug/L	0.008	16	41	20	46	KED
Zn	67	-0.047	ug/L	0.005	9	9	8	13	KED
As	75	-0.006	ug/L	0.002	25	3	2	35	KED
Y	89		ug/L			293931	449165	2	Standard
Kr	83		ug/L			41	232	14	Standard
> In-1	115		ug/L			9171	14890	1	KED
Cd	111	-0.001	ug/L	0.002	186	3	5	21	KED
Cd	114	0.000	ug/L	0.003	576	3	5	66	KED
> In	115		ug/L			523263	891283	3	Standard
Ba	135	-0.003	ug/L	0.001	27	41	36	21	Standard
Ba	137	-0.007	ug/L	0.001	8	120	71	16	Standard
> Tb	159		ug/L			1275917	2559179	0	Standard
Tl	205	-0.003	ug/L	0.000	2	295	81	17	Standard
Pb	208	-0.003	ug/L	0.000	7	400	321	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBJ
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 08:37:38

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30857	29613	0	Standard
	Cl	**37**		ug/L			5295645	5155627	1	Standard
⌈>	**Sc**	**45**		ug/L			548010	488626	1	Standard
|	**Na**	**23**	**-6.690**	ug/L	3.340	49	206938	54286	117	Standard
|	**Mg**	**24**	**0.024**	ug/L	0.082	343	2880	3163	64	Standard
|	**Al**	**27**	**-0.020**	ug/L	0.007	33	3738	2874	4	Standard
|	**Cr**	**52**	**0.011**	ug/L	0.047	438	18808	16951	3	Standard
|	**Cr**	**53**	**-0.097**	ug/L	0.009	9	545	287	7	Standard
|	**Fe**	**54**	**2.009**	ug/L	1.289	64	77311	73623	2	Standard
|	**Fe**	**57**	**6.377**	ug/L	0.863	13	20178	24098	1	Standard
⌊	**Mn**	**55**	**-0.000**	ug/L	0.001	268	497	434	4	Standard
⌈>	**Ge**	**72**		ug/L			40161	35378	1	KED
|	**Ni**	**60**	**-0.007**	ug/L	0.002	29	23	10	26	KED
|	**Ni**	**62**	**-0.025**	ug/L	0.012	46	12	4	65	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.002	108	63	49	15	KED
|	**Cu**	**65**	**0.001**	ug/L	0.004	344	31	30	28	KED
|	**Zn**	**66**	**-0.000**	ug/L	0.017	6852	41	36	25	KED
|	**Zn**	**67**	**-0.016**	ug/L	0.048	300	9	6	62	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.007	654	3	2	72	KED
	Y	**89**		ug/L			293931	260172	3	Standard
	Kr	**83**		ug/L			41	33	29	Standard
⌈>	**In-1**	**115**		ug/L			9171	7885	1	KED
|	**Cd**	**111**	**0.003**	ug/L	0.013	417	3	3	90	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.002	710	3	2	42	KED
⌈>	**In**	**115**		ug/L			523263	504223	0	Standard
|	**Ba**	**135**	**0.001**	ug/L	0.001	132	41	45	14	Standard
⌊	**Ba**	**137**	**-0.003**	ug/L	0.001	44	120	83	18	Standard
⌈>	**Tb**	**159**		ug/L			1275917	1236642	0	Standard
|	**Tl**	**205**	**-0.003**	ug/L	0.000	5	295	49	25	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	27	400	326	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 08:42:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				23325	2	Standard
	Cl	**37**		ug/L				3035317	1	Standard
⌈>	**Sc**	**45**		ug/L				832091	2	Standard
|	**Na**	**23**		ug/L				11060	3	Standard
|	**Mg**	**24**		ug/L				1942	2	Standard
|	**Al**	**27**		ug/L				3507	3	Standard
|	**Cr**	**52**		ug/L				8348	4	Standard
|	**Cr**	**53**		ug/L				161	6	Standard
|	**Fe**	**54**		ug/L				179681	17	Standard
|	**Fe**	**57**		ug/L				10528	2	Standard
⌊	**Mn**	**55**		ug/L				888	16	Standard
⌈>	**Ge**	**72**		ug/L				70710	2	KED
|	**Ni**	**60**		ug/L				13	41	KED
|	**Ni**	**62**		ug/L				5	57	KED
|	**Cu**	**63**		ug/L				71	21	KED
|	**Cu**	**65**		ug/L				37	10	KED
|	**Zn**	**66**		ug/L				28	13	KED
|	**Zn**	**67**		ug/L				7	25	KED
⌊	**As**	**75**		ug/L				4	48	KED
	Y	**89**		ug/L				441334	2	Standard
	Kr	**83**		ug/L				204	25	Standard
⌈>	**In-1**	**115**		ug/L				15277	2	KED
|	**Cd**	**111**		ug/L				2	33	KED
⌊	**Cd**	**114**		ug/L				3	50	KED
⌈>	**In**	**115**		ug/L				861042	5	Standard
|	**Ba**	**135**		ug/L				31	17	Standard
⌊	**Ba**	**137**		ug/L				71	10	Standard
⌈>	**Tb**	**159**		ug/L				2479095	2	Standard
|	**Tl**	**205**		ug/L				60	6	Standard
⌊	**Pb**	**208**		ug/L				314	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVK
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 08:47:12

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23325	29799	4	Standard
Cl	37		ug/L			3035317	5118578	3	Standard
> Sc	45		ug/L			832091	500222	1	Standard
Na	23	4324.268	ug/L	24.538	0	11060	85863279	2	Standard
Mg	24	4381.510	ug/L	48.014	1	1942	115084811	2	Standard
Al	27	4502.475	ug/L	43.165	0	3507	106432053	2	Standard
Cr	52	50.748	ug/L	0.560	1	8348	930508	2	Standard
Cr	53	49.900	ug/L	0.929	1	161	105079	0	Standard
Fe	54	4376.858	ug/L	4.181	0	179681	10634026	1	Standard
Fe	57	4530.263	ug/L	56.657	1	10528	4454018	2	Standard
Mn	55	45.328	ug/L	0.187	0	888	1365963	1	Standard
> Ge	72		ug/L			70710	36212	1	KED
Ni	60	48.240	ug/L	0.485	1	13	75097	1	KED
Ni	62	49.182	ug/L	0.952	1	5	12329	1	KED
Cu	63	48.385	ug/L	0.440	0	71	213256	0	KED
Cu	65	48.788	ug/L	0.296	0	37	108503	1	KED
Zn	66	49.381	ug/L	1.061	2	28	27577	1	KED
Zn	67	50.015	ug/L	0.670	1	7	4600	0	KED
As	75	50.167	ug/L	0.443	0	4	13650	0	KED
Y	89		ug/L			441334	269556	2	Standard
Kr	83		ug/L			204	51	13	Standard
> In-1	115		ug/L			15277	7683	1	KED
Cd	111	51.067	ug/L	1.347	2	2	13519	1	KED
Cd	114	51.018	ug/L	1.257	2	3	34869	1	KED
> In	115		ug/L			861042	517656	1	Standard
Ba	135	50.955	ug/L	1.280	2	31	319090	1	Standard
Ba	137	51.469	ug/L	1.550	3	71	571859	2	Standard
> Tb	159		ug/L			2479095	1249678	0	Standard
Tl	205	48.272	ug/L	0.428	0	60	3557195	1	Standard
Pb	208	48.429	ug/L	0.746	1	314	4465252	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBK
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 08:54:42

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23325	30007	2	Standard
Cl	37		ug/L			3035317	4980575	2	Standard
> Sc	45		ug/L			832091	503950	0	Standard
Na	23	**0.397**	ug/L	0.017	4	11060	14634	2	Standard
Mg	24	**0.045**	ug/L	0.003	5	1942	2375	2	Standard
Al	27	**0.057**	ug/L	0.004	7	3507	3473	2	Standard
Cr	52	**0.625**	ug/L	0.021	3	8348	16532	2	Standard
Cr	53	**0.036**	ug/L	0.015	40	161	175	18	Standard
Fe	54	**-14.679**	ug/L	0.646	4	179681	73258	2	Standard
Fe	57	**12.969**	ug/L	0.230	1	10528	19202	1	Standard
Mn	55	**-0.003**	ug/L	0.002	53	888	446	11	Standard
> Ge	72		ug/L			70710	37275	1	KED
Ni	60	**0.004**	ug/L	0.001	28	13	13	14	KED
Ni	62	**0.009**	ug/L	0.004	42	5	5	21	KED
Cu	63	**0.002**	ug/L	0.003	182	71	45	29	KED
Cu	65	**0.005**	ug/L	0.002	38	37	31	13	KED
Zn	66	**0.022**	ug/L	0.014	62	28	27	28	KED
Zn	67	**0.045**	ug/L	0.030	67	7	8	35	KED
As	75	**0.010**	ug/L	0.006	63	4	4	33	KED
Y	89		ug/L			441334	277795	0	Standard
Kr	83		ug/L			204	33	33	Standard
> In-1	115		ug/L			15277	8159	4	KED
Cd	111	**0.002**	ug/L	0.009	587	2	1	132	KED
Cd	114	**0.004**	ug/L	0.005	129	3	5	79	KED
> In	115		ug/L			861042	530352	1	Standard
Ba	135	**0.004**	ug/L	0.002	37	31	45	20	Standard
Ba	137	**0.005**	ug/L	0.001	18	71	96	10	Standard
> Tb	159		ug/L			2479095	1262490	1	Standard
Tl	205	**0.003**	ug/L	0.000	8	60	286	5	Standard
Pb	208	**0.002**	ug/L	0.000	10	314	368	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0672-02RE1
Sample Dil Factor: 5
DEL
Comments:
Sample Date/Time: Thursday, April 27, 2023 08:59:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23325	39349	4	Standard
Cl	37		ug/L			3035317	4906490	2	Standard
> Sc	45		ug/L			832091	517566	2	Standard
Na	23	**1933.611**	ug/L	18.781	0	11060	39721739	1	Standard
Mg	24	**771.693**	ug/L	17.815	2	1942	20964231	0	Standard
Al	27	**0.727**	ug/L	0.062	8	3507	19993	9	Standard
Cr	52	**0.680**	ug/L	0.012	1	8348	18018	1	Standard
Cr	53	**0.167**	ug/L	0.012	7	161	463	6	Standard
Fe	54	**-14.713**	ug/L	0.607	4	179681	75133	1	Standard
Fe	57	**14.391**	ug/L	0.519	3	10528	21156	0	Standard
Mn	55	**0.014**	ug/L	0.000	0	888	985	2	Standard
> Ge	72		ug/L			70710	38153	0	KED
Ni	60	**0.107**	ug/L	0.012	11	13	182	10	KED
Ni	62	**0.235**	ug/L	0.013	5	5	64	5	KED
Cu	63	**65.659**	ug/L	1.012	1	71	304886	1	KED
Cu	65	**64.952**	ug/L	0.935	1	37	152178	1	KED
Zn	66	**4.113**	ug/L	0.113	2	28	2434	3	KED
Zn	67	**4.031**	ug/L	0.439	10	7	394	10	KED
As	75	**0.039**	ug/L	0.005	13	4	13	11	KED
Y	89		ug/L			441334	277146	2	Standard
Kr	83		ug/L			204	36	16	Standard
> In-1	115		ug/L			15277	8455	0	KED
Cd	111	**0.008**	ug/L	0.012	154	2	3	90	KED
Cd	114	**0.000**	ug/L	0.003	652	3	2	92	KED
> In	115		ug/L			861042	532277	1	Standard
Ba	135	**0.662**	ug/L	0.013	2	31	4283	0	Standard
Ba	137	**0.655**	ug/L	0.007	1	71	7528	0	Standard
> Tb	159		ug/L			2479095	1268131	0	Standard
Tl	205	**0.002**	ug/L	0.001	29	60	196	24	Standard
Pb	208	**0.050**	ug/L	0.002	4	314	4793	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0002-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 09:04:09

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23325	52571	1	Standard
Cl	37		ug/L			3035317	5228651	4	Standard
> Sc	45		ug/L			832091	547139	1	Standard
Na	23	**4927.605**	ug/L	128.088	2	11060	107018716	3	Standard
Mg	24	**2555.521**	ug/L	66.562	2	1942	73388524	0	Standard
Al	27	**58.732**	ug/L	0.693	1	3507	1520609	1	Standard
Cr	52	**1.070**	ug/L	0.010	0	8348	26839	2	Standard
Cr	53	**0.943**	ug/L	0.039	4	161	2276	2	Standard
Fe	54	**303.156**	ug/L	10.332	3	179681	915245	1	Standard
Fe	57	**345.034**	ug/L	7.588	2	10528	377286	0	Standard
Mn	55	**3.608**	ug/L	0.085	2	888	119439	2	Standard
> Ge	72		ug/L			70710	36678	1	KED
Ni	60	**0.598**	ug/L	0.015	2	13	949	1	KED
Ni	62	**0.625**	ug/L	0.045	7	5	161	7	KED
Cu	63	**2.354**	ug/L	0.128	5	71	10539	4	KED
Cu	65	**2.395**	ug/L	0.092	3	37	5412	3	KED
Zn	66	**3.684**	ug/L	0.157	4	28	2097	3	KED
Zn	67	**3.849**	ug/L	0.356	9	7	362	10	KED
As	75	**1.024**	ug/L	0.082	8	4	284	6	KED
Y	89		ug/L			441334	290389	2	Standard
Kr	83		ug/L			204	42	6	Standard
> In-1	115		ug/L			15277	8097	1	KED
Cd	111	**0.024**	ug/L	0.006	23	2	8	17	KED
Cd	114	**0.012**	ug/L	0.004	32	3	10	26	KED
> In	115		ug/L			861042	518540	6	Standard
Ba	135	**4.708**	ug/L	0.176	3	31	29514	2	Standard
Ba	137	**4.777**	ug/L	0.274	5	71	53097	0	Standard
> Tb	159		ug/L			2479095	1270093	2	Standard
Tl	205	**0.011**	ug/L	0.001	6	60	820	6	Standard
Pb	208	**0.095**	ug/L	0.002	1	314	9027	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0002-03

DEL

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 27, 2023 09:08:55

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23325	55072	1	Standard
Cl	37		ug/L			3035317	5058403	1	Standard
> Sc	45		ug/L			832091	523251	1	Standard
Na	23	**2472.949**	ug/L	8.263	0	11060	51363091	1	Standard
Mg	24	**904.175**	ug/L	22.197	2	1942	24840770	2	Standard
Al	27	**101.543**	ug/L	2.459	2	3507	2512507	2	Standard
Cr	52	**3.268**	ug/L	0.032	0	8348	67597	2	Standard
Cr	53	**2.827**	ug/L	0.026	0	161	6322	1	Standard
Fe	54	**897.166**	ug/L	18.112	2	179681	2370182	3	Standard
Fe	57	**868.297**	ug/L	4.020	0	10528	898235	1	Standard
Mn	55	**117.786**	ug/L	0.347	0	888	3711848	1	Standard
> Ge	72		ug/L			70710	37300	0	KED
Ni	60	**1.477**	ug/L	0.041	2	13	2375	3	KED
Ni	62	**1.405**	ug/L	0.212	15	5	365	14	KED
Cu	63	**13.475**	ug/L	0.120	0	71	61203	1	KED
Cu	65	**13.487**	ug/L	0.245	1	37	30905	0	KED
Zn	66	**205.438**	ug/L	4.160	2	28	118128	1	KED
Zn	67	**194.950**	ug/L	0.531	0	7	18458	1	KED
As	75	**1.411**	ug/L	0.028	2	4	397	2	KED
Y	89		ug/L			441334	285415	2	Standard
Kr	83		ug/L			204	40	12	Standard
> In-1	115		ug/L			15277	8265	0	KED
Cd	111	**0.246**	ug/L	0.024	9	2	71	9	KED
Cd	114	**0.234**	ug/L	0.019	8	3	174	8	KED
> In	115		ug/L			861042	530063	2	Standard
Ba	135	**9.946**	ug/L	0.033	0	31	63805	2	Standard
Ba	137	**9.939**	ug/L	0.205	2	71	113096	0	Standard
> Tb	159		ug/L			2479095	1305768	1	Standard
Tl	205	**0.004**	ug/L	0.000	9	60	311	8	Standard
Pb	208	**1.671**	ug/L	0.008	0	314	161162	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0002-05

DEL

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 27, 2023 09:17:18

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623b.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23325	53202	2	Standard
Cl	37		ug/L			3035317	5438616	3	Standard
> Sc	45		ug/L			832091	562088	2	Standard
Na	23	**5838.327**	ug/L	113.532	1	11060	130212424	1	Standard
Mg	24	**3554.005**	ug/L	5.771	0	1942	104882097	2	Standard
Al	27	**27.193**	ug/L	1.389	5	3507	724244	4	Standard
Cr	52	**1.122**	ug/L	0.004	0	8348	28624	3	Standard
Cr	53	**0.828**	ug/L	0.054	6	161	2064	4	Standard
Fe	54	**764.462**	ug/L	10.004	1	179681	2186704	1	Standard
Fe	57	**765.271**	ug/L	17.060	2	10528	850929	1	Standard
Mn	55	**208.976**	ug/L	2.913	1	888	7075264	4	Standard
> Ge	72		ug/L			70710	37739	0	KED
Ni	60	**0.863**	ug/L	0.015	1	13	1407	1	KED
Ni	62	**0.901**	ug/L	0.129	14	5	238	14	KED
Cu	63	**3.412**	ug/L	0.075	2	71	15705	1	KED
Cu	65	**3.441**	ug/L	0.047	1	37	7995	2	KED
Zn	66	**28.936**	ug/L	0.156	0	28	16849	1	KED
Zn	67	**27.912**	ug/L	0.524	1	7	2677	2	KED
As	75	**1.508**	ug/L	0.025	1	4	429	0	KED
Y	89		ug/L			441334	281959	1	Standard
Kr	83		ug/L			204	73	10	Standard
> In-1	115		ug/L			15277	8519	0	KED
Cd	111	**0.050**	ug/L	0.011	22	2	16	21	KED
Cd	114	**0.033**	ug/L	0.009	26	3	26	24	KED
> In	115		ug/L			861042	529729	2	Standard
Ba	135	**9.388**	ug/L	0.261	2	31	60185	3	Standard
Ba	137	**9.601**	ug/L	0.199	2	71	109187	0	Standard
> Tb	159		ug/L			2479095	1282571	1	Standard
Tl	205	**0.003**	ug/L	0.000	10	60	245	9	Standard
Pb	208	**0.153**	ug/L	0.005	3	314	14593	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLN

DEL

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, April 27, 2023 09:21:59

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623b.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23325	30359	1	Standard
Cl	37		ug/L			3035317	5277515	1	Standard
> Sc	45		ug/L			832091	526338	1	Standard
Na	23	**0.454**	ug/L	0.009	2	11060	16484	0	Standard
Mg	24	**0.046**	ug/L	0.006	12	1942	2512	7	Standard
Al	27	**0.025**	ug/L	0.003	13	3507	2828	1	Standard
Cr	52	**0.635**	ug/L	0.003	0	8348	17462	1	Standard
Cr	53	**0.070**	ug/L	0.007	9	161	258	6	Standard
Fe	54	**-14.418**	ug/L	0.295	2	179681	77174	1	Standard
Fe	57	**9.154**	ug/L	0.008	0	10528	16114	1	Standard
Mn	55	**-0.001**	ug/L	0.001	121	888	525	7	Standard
> Ge	72		ug/L			70710	37859	0	KED
Ni	60	**0.007**	ug/L	0.004	50	13	19	30	KED
Ni	62	**0.009**	ug/L	0.004	46	5	5	21	KED
Cu	63	**0.009**	ug/L	0.008	82	71	81	43	KED
Cu	65	**0.015**	ug/L	0.008	55	37	54	34	KED
Zn	66	**0.141**	ug/L	0.077	55	28	97	45	KED
Zn	67	**0.090**	ug/L	0.095	105	7	12	70	KED
As	75	**0.004**	ug/L	0.003	85	4	3	28	KED
Y	89		ug/L			441334	275528	2	Standard
Kr	83		ug/L			204	41	16	Standard
> In-1	115		ug/L			15277	8441	1	KED
Cd	111	**0.009**	ug/L	0.002	19	2	4	13	KED
Cd	114	**0.005**	ug/L	0.002	53	3	5	34	KED
> In	115		ug/L			861042	521117	1	Standard
Ba	135	**0.005**	ug/L	0.001	20	31	50	11	Standard
Ba	137	**0.003**	ug/L	0.001	32	71	75	15	Standard
> Tb	159		ug/L			2479095	1264862	1	Standard
Tl	205	**0.001**	ug/L	0.000	25	60	83	16	Standard
Pb	208	**0.003**	ug/L	0.000	16	314	398	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0715-01

DEL

Sample Dil Factor: 20

Comments:

Sample Date/Time: Thursday, April 27, 2023 09:26:46

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623b.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23325	36752	2	Standard
Cl	37		ug/L			3035317	5594817	2	Standard
> Sc	45		ug/L			832091	534304	1	Standard
Na	23	**19090.303**	ug/L	599.574	3	11060	404725759	2	Standard
Mg	24	**618.274**	ug/L	10.769	1	1942	17346727	2	Standard
Al	27	**6.183**	ug/L	0.116	1	3507	158324	0	Standard
Cr	52	**0.816**	ug/L	0.019	2	8348	21247	2	Standard
Cr	53	**0.883**	ug/L	0.030	3	161	2089	4	Standard
Fe	54	**-9.472**	ug/L	0.486	5	179681	91031	0	Standard
Fe	57	**17.440**	ug/L	0.241	1	10528	25049	2	Standard
Mn	55	**0.240**	ug/L	0.002	0	888	8305	1	Standard
> Ge	72		ug/L			70710	37075	0	KED
Ni	60	**0.162**	ug/L	0.022	13	13	265	12	KED
Ni	62	**0.136**	ug/L	0.016	11	5	37	10	KED
Cu	63	**0.046**	ug/L	0.006	12	71	243	9	KED
Cu	65	**0.050**	ug/L	0.003	4	37	134	4	KED
Zn	66	**0.132**	ug/L	0.009	6	28	90	6	KED
Zn	67	**0.200**	ug/L	0.073	36	7	22	30	KED
As	75	**5.120**	ug/L	0.081	1	4	1428	1	KED
Y	89		ug/L			441334	280026	4	Standard
Kr	83		ug/L			204	50	26	Standard
> In-1	115		ug/L			15277	8184	0	KED
Cd	111	**0.008**	ug/L	0.009	110	2	3	66	KED
Cd	114	**0.002**	ug/L	0.003	126	3	3	55	KED
> In	115		ug/L			861042	517885	2	Standard
Ba	135	**2.108**	ug/L	0.144	6	31	13208	4	Standard
Ba	137	**2.168**	ug/L	0.087	4	71	24128	1	Standard
> Tb	159		ug/L			2479095	1285562	0	Standard
Tl	205	**0.001**	ug/L	0.000	23	60	86	14	Standard
Pb	208	**0.007**	ug/L	0.001	6	314	871	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0715-03
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Thursday, April 27, 2023 09:31:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623b.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23325	37942	2	Standard
Cl	37		ug/L			3035317	6037885	2	Standard
> Sc	45		ug/L			832091	532899	0	Standard
Na	23	39607.345	ug/L	931.312	2	11060	837791075	2	Standard
Mg	24	1089.198	ug/L	15.442	1	1942	30473617	0	Standard
Al	27	0.645	ug/L	0.014	2	3507	18495	1	Standard
Cr	52	18.595	ug/L	0.382	2	8348	366609	2	Standard
Cr	53	19.396	ug/L	0.263	1	161	43580	0	Standard
Fe	54	-14.217	ug/L	0.633	4	179681	78644	1	Standard
Fe	57	15.479	ug/L	0.511	3	10528	22927	1	Standard
Mn	55	1.340	ug/L	0.007	0	888	43569	0	Standard
> Ge	72		ug/L			70710	37319	0	KED
Ni	60	0.797	ug/L	0.020	2	13	1286	2	KED
Ni	62	0.840	ug/L	0.045	5	5	219	4	KED
Cu	63	0.080	ug/L	0.005	6	71	400	5	KED
Cu	65	0.077	ug/L	0.012	15	37	196	13	KED
Zn	66	0.219	ug/L	0.052	23	28	140	20	KED
Zn	67	0.233	ug/L	0.104	44	7	26	37	KED
As	75	2.604	ug/L	0.034	1	4	732	1	KED
Y	89		ug/L			441334	278326	3	Standard
Kr	83		ug/L			204	39	15	Standard
> In-1	115		ug/L			15277	8024	1	KED
Cd	111	0.004	ug/L	0.005	138	2	2	57	KED
Cd	114	0.002	ug/L	0.005	218	3	3	102	KED
> In	115		ug/L			861042	518550	1	Standard
Ba	135	0.889	ug/L	0.010	1	31	5592	1	Standard
Ba	137	0.919	ug/L	0.027	2	71	10267	0	Standard
> Tb	159		ug/L			2479095	1292480	1	Standard
Tl	205	0.001	ug/L	0.000	11	60	128	9	Standard
Pb	208	0.006	ug/L	0.000	4	314	755	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0715-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 09:36:42

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623b.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23325	38036	3	Standard
Cl	37		ug/L			3035317	5995446	4	Standard
> Sc	45		ug/L			832091	534880	1	Standard
Na	23	36670.966	ug/L	378.162	1	11060	778550064	2	Standard
Mg	24	872.152	ug/L	14.569	1	1942	24495388	2	Standard
Al	27	2.530	ug/L	0.025	1	3507	66213	2	Standard
Cr	52	8.321	ug/L	0.132	1	8348	167637	2	Standard
Cr	53	8.672	ug/L	0.037	0	161	19617	1	Standard
Fe	54	-15.039	ug/L	0.272	1	179681	76833	2	Standard
Fe	57	15.020	ug/L	0.641	4	10528	22537	4	Standard
Mn	55	0.055	ug/L	0.002	4	888	2328	2	Standard
> Ge	72		ug/L			70710	37097	1	KED
Ni	60	0.321	ug/L	0.031	9	13	518	8	KED
Ni	62	0.358	ug/L	0.055	15	5	94	16	KED
Cu	63	0.048	ug/L	0.010	21	71	254	19	KED
Cu	65	0.058	ug/L	0.005	9	37	152	6	KED
Zn	66	0.174	ug/L	0.028	15	28	114	13	KED
Zn	67	0.241	ug/L	0.025	10	7	26	7	KED
As	75	3.051	ug/L	0.082	2	4	852	3	KED
Y	89		ug/L			441334	279392	1	Standard
Kr	83		ug/L			204	36	11	Standard
> In-1	115		ug/L			15277	8073	2	KED
Cd	111	0.009	ug/L	0.005	52	2	4	35	KED
Cd	114	-0.003	ug/L	0.000	5	3	0	43	KED
> In	115		ug/L			861042	522371	2	Standard
Ba	135	0.713	ug/L	0.029	4	31	4520	2	Standard
Ba	137	0.746	ug/L	0.017	2	71	8403	0	Standard
> Tb	159		ug/L			2479095	1283254	2	Standard
Tl	205	0.001	ug/L	0.000	10	60	107	6	Standard
Pb	208	0.004	ug/L	0.000	5	314	520	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0715-07

DEL

Sample Dil Factor: 20

Comments:

Sample Date/Time: Thursday, April 27, 2023 09:42:52

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623b.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23325	37708	2	Standard
Cl	37		ug/L			3035317	5917141	4	Standard
> Sc	45		ug/L			832091	528118	1	Standard
Na	23	35137.315	ug/L	570.464	1	11060	736426633	1	Standard
Mg	24	865.866	ug/L	22.748	2	1942	24002170	1	Standard
Al	27	0.418	ug/L	0.014	3	3507	12653	1	Standard
Cr	52	8.237	ug/L	0.184	2	8348	163839	1	Standard
Cr	53	8.569	ug/L	0.104	1	161	19136	1	Standard
Fe	54	-14.810	ug/L	0.428	2	179681	76424	0	Standard
Fe	57	15.416	ug/L	0.418	2	10528	22656	2	Standard
Mn	55	0.055	ug/L	0.003	5	888	2304	2	Standard
> Ge	72		ug/L			70710	37789	1	KED
Ni	60	0.312	ug/L	0.027	8	13	514	8	KED
Ni	62	0.344	ug/L	0.008	2	5	92	1	KED
Cu	63	0.052	ug/L	0.006	11	71	275	8	KED
Cu	65	0.052	ug/L	0.009	17	37	139	14	KED
Zn	66	0.134	ug/L	0.024	17	28	93	14	KED
Zn	67	0.155	ug/L	0.108	69	7	19	55	KED
As	75	2.978	ug/L	0.071	2	4	847	1	KED
Y	89		ug/L			441334	280581	1	Standard
Kr	83		ug/L			204	40	39	Standard
> In-1	115		ug/L			15277	8209	1	KED
Cd	111	0.005	ug/L	0.012	259	2	2	120	KED
Cd	114	0.003	ug/L	0.003	91	3	4	50	KED
> In	115		ug/L			861042	529729	1	Standard
Ba	135	0.697	ug/L	0.014	2	31	4487	3	Standard
Ba	137	0.692	ug/L	0.008	1	71	7910	0	Standard
> Tb	159		ug/L			2479095	1275744	1	Standard
Tl	205	0.001	ug/L	0.000	28	60	120	22	Standard
Pb	208	0.004	ug/L	0.000	7	314	546	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLO
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 09:47:34

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623b.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23325	32199	1	Standard
Cl	37		ug/L			3035317	5455766	2	Standard
> Sc	45		ug/L			832091	521672	2	Standard
Na	23	**0.950**	ug/L	0.042	4	11060	26587	1	Standard
Mg	24	**0.042**	ug/L	0.001	3	1942	2371	3	Standard
Al	27	**0.029**	ug/L	0.004	14	3507	2911	1	Standard
Cr	52	**0.648**	ug/L	0.018	2	8348	17556	2	Standard
Cr	53	**0.122**	ug/L	0.018	14	161	368	8	Standard
Fe	54	**-14.201**	ug/L	0.360	2	179681	77026	2	Standard
Fe	57	**14.338**	ug/L	0.390	2	10528	21272	0	Standard
Mn	55	**-0.002**	ug/L	0.000	8	888	493	2	Standard
> Ge	72		ug/L			70710	37836	1	KED
Ni	60	**0.005**	ug/L	0.001	12	13	15	6	KED
Ni	62	**0.012**	ug/L	0.020	169	5	5	88	KED
Cu	63	**0.007**	ug/L	0.001	21	71	69	11	KED
Cu	65	**0.010**	ug/L	0.004	40	37	42	20	KED
Zn	66	**0.078**	ug/L	0.013	16	28	60	11	KED
Zn	67	**0.031**	ug/L	0.062	201	7	6	83	KED
As	75	**0.004**	ug/L	0.003	81	4	3	28	KED
Y	89		ug/L			441334	275219	4	Standard
Kr	83		ug/L			204	38	34	Standard
> In-1	115		ug/L			15277	8166	2	KED
Cd	111	**0.001**	ug/L	0.003	250	2	1	50	KED
Cd	114	**0.005**	ug/L	0.007	139	3	5	88	KED
> In	115		ug/L			861042	524628	1	Standard
Ba	135	**0.004**	ug/L	0.002	43	31	41	22	Standard
Ba	137	**0.003**	ug/L	0.000	18	71	71	6	Standard
> Tb	159		ug/L			2479095	1247919	0	Standard
Tl	205	**0.000**	ug/L	0.000	8	60	61	4	Standard
Pb	208	**0.003**	ug/L	0.000	3	314	410	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVL
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 09:52:20

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623b.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23325	30812	5	Standard
Cl	37		ug/L			3035317	5379190	3	Standard
> Sc	45		ug/L			832091	532520	1	Standard
Na	23	4239.413	ug/L	160.146	3	11060	89591682	3	Standard
Mg	24	4165.633	ug/L	122.818	2	1942	116443719	2	Standard
Al	27	4419.462	ug/L	53.275	1	3507	111194519	0	Standard
Cr	52	49.358	ug/L	0.976	1	8348	963307	0	Standard
Cr	53	48.757	ug/L	1.700	3	161	109289	2	Standard
Fe	54	4193.935	ug/L	136.580	3	179681	10851268	3	Standard
Fe	57	4257.853	ug/L	95.166	2	10528	4455348	0	Standard
Mn	55	44.700	ug/L	1.641	3	888	1433572	2	Standard
> Ge	72		ug/L			70710	37494	1	KED
Ni	60	47.944	ug/L	0.483	1	13	77268	0	KED
Ni	62	47.730	ug/L	1.624	3	5	12386	2	KED
Cu	63	48.419	ug/L	0.134	0	71	220963	1	KED
Cu	65	48.849	ug/L	0.926	1	37	112462	0	KED
Zn	66	50.085	ug/L	0.671	1	28	28962	1	KED
Zn	67	49.739	ug/L	1.033	2	7	4737	3	KED
As	75	50.301	ug/L	0.906	1	4	14168	0	KED
Y	89		ug/L			441334	281445	2	Standard
Kr	83		ug/L			204	35	8	Standard
> In-1	115		ug/L			15277	8514	1	KED
Cd	111	48.461	ug/L	1.057	2	2	14216	0	KED
Cd	114	48.834	ug/L	1.357	2	3	36981	0	KED
> In	115		ug/L			861042	533200	2	Standard
Ba	135	50.191	ug/L	1.811	3	31	323885	5	Standard
Ba	137	50.701	ug/L	1.968	3	71	580102	2	Standard
> Tb	159		ug/L			2479095	1290056	0	Standard
Tl	205	47.453	ug/L	1.053	2	60	3609715	1	Standard
Pb	208	47.421	ug/L	0.345	0	314	4513680	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBL
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 09:59:51

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623b.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23325	30082	0	Standard
Cl	37		ug/L			3035317	5173812	2	Standard
> Sc	45		ug/L			832091	517016	0	Standard
Na	23	**0.358**	ug/L	0.019	5	11060	14213	2	Standard
Mg	24	**0.035**	ug/L	0.002	6	1942	2151	2	Standard
Al	27	**0.039**	ug/L	0.002	4	3507	3127	0	Standard
Cr	52	**0.636**	ug/L	0.019	3	8348	17169	1	Standard
Cr	53	**0.055**	ug/L	0.008	15	161	219	8	Standard
Fe	54	**-15.452**	ug/L	0.619	4	179681	73227	1	Standard
Fe	57	**11.834**	ug/L	0.268	2	10528	18550	2	Standard
Mn	55	**-0.003**	ug/L	0.001	40	888	455	9	Standard
> Ge	72		ug/L			70710	39299	0	KED
Ni	60	**0.003**	ug/L	0.001	53	13	12	18	KED
Ni	62	**0.006**	ug/L	0.011	179	5	4	65	KED
Cu	63	**0.003**	ug/L	0.002	72	71	51	16	KED
Cu	65	**0.003**	ug/L	0.001	41	37	28	11	KED
Zn	66	**0.038**	ug/L	0.007	17	28	38	11	KED
Zn	67	**0.021**	ug/L	0.040	187	7	6	62	KED
As	75	**0.004**	ug/L	0.002	44	4	3	15	KED
Y	89		ug/L			441334	277875	1	Standard
Kr	83		ug/L			204	43	18	Standard
> In-1	115		ug/L			15277	8631	2	KED
Cd	111	**0.034**	ug/L	0.023	66	2	11	55	KED
Cd	114	**0.022**	ug/L	0.033	148	3	18	131	KED
> In	115		ug/L			861042	533064	2	Standard
Ba	135	**0.004**	ug/L	0.001	18	31	41	9	Standard
Ba	137	**0.004**	ug/L	0.002	49	71	85	21	Standard
> Tb	159		ug/L			2479095	1270562	1	Standard
Tl	205	**0.003**	ug/L	0.000	9	60	251	9	Standard
Pb	208	**0.002**	ug/L	0.000	5	314	383	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 10:06:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				31544	0	Standard
	Cl	**37**		ug/L				5591142	1	Standard
	Y	**89**		ug/L				285431	1	Standard
	Kr	**83**		ug/L				66	21	Standard
⎡>	**In**	**115**		ug/L				516858	1	Standard
⎢	**Ba**	**135**		ug/L				62	16	Standard
⎣	**Ba**	**137**		ug/L				111	5	Standard
⎡>	**Tb**	**159**		ug/L				1181366	1	Standard
⎣	**Tl**	**205**		ug/L				129	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVM
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 10:07:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31544	32075	1	Standard
	Cl	**37**		ug/L			5591142	5856545	0	Standard
	Y	**89**		ug/L			285431	296498	2	Standard
	Kr	**83**		ug/L			66	70	11	Standard
⎡>	**In**	**115**		ug/L			516858	520939	3	Standard
⎢	**Ba**	**135**	**50.059**	ug/L	1.480	2	62	315370	0	Standard
⎣	**Ba**	**137**	**51.508**	ug/L	2.119	4	111	575575	0	Standard
⎡>	**Tb**	**159**		ug/L			1181366	1214873	1	Standard
⎣	**Tl**	**205**	**47.386**	ug/L	0.385	0	129	3394762	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBM
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 10:11:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623c.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31544	31771	2	Standard
	Cl	**37**		ug/L			5591142	5821591	0	Standard
	Y	**89**		ug/L			285431	296949	2	Standard
	Kr	**83**		ug/L			66	60	22	Standard
⎡>	**In**	**115**		ug/L			516858	523337	3	Standard
⎢	**Ba**	**135**	**0.002**	ug/L	0.004	229	62	74	35	Standard
⎣	**Ba**	**137**	**0.001**	ug/L	0.002	271	111	123	25	Standard
⎡>	**Tb**	**159**		ug/L			1181366	1181411	1	Standard
⎣	**Tl**	**205**	**0.003**	ug/L	0.003	98	129	335	60	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0736-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 10:14:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623c.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31544	50747	1	Standard
	Cl	**37**		ug/L			5591142	5798602	0	Standard
	Y	**89**		ug/L			285431	295075	0	Standard
	Kr	**83**		ug/L			66	74	12	Standard
>	**In**	**115**		ug/L			516858	475517	2	Standard
	Ba	**135**	**74.494**	ug/L	1.037	1	62	428573	0	Standard
	Ba	**137**	**74.865**	ug/L	2.018	2	111	764036	0	Standard
>	**Tb**	**159**		ug/L			1181366	1174478	1	Standard
	Tl	**205**	**0.003**	ug/L	0.000	4	129	339	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0736-03
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 10:15:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623c.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31544	50043	1	Standard
	Cl	**37**		ug/L			5591142	5803529	0	Standard
	Y	**89**		ug/L			285431	298555	1	Standard
	Kr	**83**		ug/L			66	69	28	Standard
⎡>	**In**	**115**		ug/L			516858	491401	2	Standard
⎢	**Ba**	**135**	**61.218**	ug/L	0.901	1	62	363955	0	Standard
⎣	**Ba**	**137**	**60.842**	ug/L	0.066	0	111	641930	2	Standard
⎡>	**Tb**	**159**		ug/L			1181366	1174961	1	Standard
⎣	**Tl**	**205**	**0.008**	ug/L	0.001	18	129	666	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0736-05
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 10:17:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623c.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31544	50624	1	Standard
	Cl	**37**		ug/L			5591142	5749602	0	Standard
	Y	**89**		ug/L			285431	292412	1	Standard
	Kr	**83**		ug/L			66	81	10	Standard
⎡>	**In**	**115**		ug/L			516858	492415	0	Standard
⎢	**Ba**	**135**	**39.417**	ug/L	1.198	3	62	234890	2	Standard
⎣	**Ba**	**137**	**38.528**	ug/L	1.081	2	111	407331	2	Standard
⎡>	**Tb**	**159**		ug/L			1181366	1171226	2	Standard
⎣	**Tl**	**205**	**0.002**	ug/L	0.000	4	129	296	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0736-07
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 10:18:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623c.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31544	51567	3	Standard
	Cl	**37**		ug/L			5591142	5547164	1	Standard
	Y	**89**		ug/L			285431	291123	0	Standard
	Kr	**83**		ug/L			66	68	21	Standard
⌈>	**In**	**115**		ug/L			516858	480302	1	Standard
|	**Ba**	**135**	**32.305**	ug/L	0.378	1	62	187777	1	Standard
⌊	**Ba**	**137**	**32.118**	ug/L	0.473	1	111	331193	0	Standard
⌈>	**Tb**	**159**		ug/L			1181366	1137707	1	Standard
⌊	**Tl**	**205**	**0.010**	ug/L	0.001	6	129	786	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0736-11
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 10:20:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623c.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31544	50309	2	Standard
	Cl	**37**		ug/L			5591142	5643830	0	Standard
	Y	**89**		ug/L			285431	290637	3	Standard
	Kr	**83**		ug/L			66	75	10	Standard
⌈>	**In**	**115**		ug/L			516858	494106	2	Standard
|	**Ba**	**135**	**25.308**	ug/L	0.361	1	62	151317	1	Standard
⌊	**Ba**	**137**	**25.189**	ug/L	0.567	2	111	267184	1	Standard
⌈>	**Tb**	**159**		ug/L			1181366	1157499	2	Standard
⌊	**Tl**	**205**	**0.002**	ug/L	0.000	13	129	248	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0736-09
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 10:21:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623c.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31544	53668	2	Standard
	Cl	**37**		ug/L			5591142	5592244	0	Standard
	Y	**89**		ug/L			285431	292604	1	Standard
	Kr	**83**		ug/L			66	62	20	Standard
⌈>	**In**	**115**		ug/L			516858	498689	1	Standard
|	**Ba**	**135**	**24.711**	ug/L	0.483	1	62	149181	3	Standard
⌊	**Ba**	**137**	**24.865**	ug/L	0.426	1	111	266330	3	Standard
⌈>	**Tb**	**159**		ug/L			1181366	1167650	0	Standard
⌊	**Tl**	**205**	**0.001**	ug/L	0.000	25	129	219	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0347-DUP2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 10:23:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623c.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31544	51511	2	Standard
	Cl	**37**		ug/L			5591142	5550036	0	Standard
	Y	**89**		ug/L			285431	292304	2	Standard
	Kr	**83**		ug/L			66	78	16	Standard
⌈>	**In**	**115**		ug/L			516858	490901	2	Standard
⌊	**Ba**	**135**	**24.705**	ug/L	0.400	1	62	146762	0	Standard
⌊	**Ba**	**137**	**25.454**	ug/L	0.369	1	111	268288	1	Standard
⌈>	**Tb**	**159**		ug/L			1181366	1161242	2	Standard
⌊	**Tl**	**205**	**0.001**	ug/L	0.000	14	129	226	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0347-MS2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 10:24:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623c.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31544	50116	1	Standard
	Cl	**37**		ug/L			5591142	5465634	1	Standard
	Y	**89**		ug/L			285431	292696	3	Standard
	Kr	**83**		ug/L			66	84	23	Standard
⎡>	**In**	**115**		ug/L			516858	479439	2	Standard
⎢	**Ba**	**135**	**52.276**	ug/L	2.511	4	62	303036	2	Standard
⎣	**Ba**	**137**	**52.683**	ug/L	1.880	3	111	541947	0	Standard
⎡>	**Tb**	**159**		ug/L			1181366	1146115	1	Standard
⎣	**Tl**	**205**	**22.756**	ug/L	0.414	1	129	1537753	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0347-MSD2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 10:26:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623c.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31544	50250	2	Standard
	Cl	**37**		ug/L			5591142	5448742	1	Standard
	Y	**89**		ug/L			285431	300807	0	Standard
	Kr	**83**		ug/L			66	83	12	Standard
⌈>	**In**	**115**		ug/L			516858	487163	3	Standard
|	**Ba**	**135**	**51.500**	ug/L	2.058	3	62	303315	0	Standard
⌊	**Ba**	**137**	**51.288**	ug/L	1.647	3	111	536029	0	Standard
⌈>	**Tb**	**159**		ug/L			1181366	1174333	2	Standard
⌊	**Tl**	**205**	**22.528**	ug/L	0.280	1	129	1559859	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLS
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 10:28:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623c.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31544	35281	2	Standard
	Cl	**37**		ug/L			5591142	6133395	1	Standard
	Y	**89**		ug/L			285431	301501	3	Standard
	Kr	**83**		ug/L			66	75	16	Standard
⎡>	**In**	**115**		ug/L			516858	532676	1	Standard
⎢	**Ba**	**135**	**0.001**	ug/L	0.002	294	62	69	22	Standard
⎣	**Ba**	**137**	**0.000**	ug/L	0.002	546	111	120	22	Standard
⎡>	**Tb**	**159**		ug/L			1181366	1186537	1	Standard
⎣	**Tl**	**205**	**0.001**	ug/L	0.000	53	129	175	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVQ
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 10:29:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623c.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31544	34939	1	Standard
	Cl	**37**		ug/L			5591142	6015985	1	Standard
	Y	**89**		ug/L			285431	309244	1	Standard
	Kr	**83**		ug/L			66	54	32	Standard
⎡>	**In**	**115**		ug/L			516858	536261	1	Standard
⎢	**Ba**	**135**	**49.819**	ug/L	1.565	3	62	323194	1	Standard
⎣	**Ba**	**137**	**49.645**	ug/L	1.409	2	111	571453	1	Standard
⎡>	**Tb**	**159**		ug/L			1181366	1235582	1	Standard
⎣	**Tl**	**205**	**48.126**	ug/L	1.080	2	129	3505852	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBQ
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 10:33:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623c.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31544	34245	2	Standard
	Cl	**37**		ug/L			5591142	6019810	0	Standard
	Y	**89**		ug/L			285431	298565	0	Standard
	Kr	**83**		ug/L			66	67	7	Standard
⎡>	**In**	**115**		ug/L			516858	547328	1	Standard
⎢	**Ba**	**135**	**-0.002**	ug/L	0.002	104	62	55	21	Standard
⎣	**Ba**	**137**	**-0.001**	ug/L	0.001	151	111	109	14	Standard
⎡>	**Tb**	**159**		ug/L			1181366	1182925	1	Standard
⎣	**Tl**	**205**	**0.001**	ug/L	0.000	54	129	166	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 10:35:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623c.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31544	38243	0	Standard
	Cl	**37**		ug/L			5591142	6248068	1	Standard
	Y	**89**		ug/L			285431	340309	1	Standard
	Kr	**83**		ug/L			66	71	21	Standard
⎡>	**In**	**115**		ug/L			516858	603738	1	Standard
⎢	**Ba**	**135**	**0.005**	ug/L	0.002	48	62	111	17	Standard
⎣	**Ba**	**137**	**0.003**	ug/L	0.001	39	111	170	8	Standard
⎡>	**Tb**	**159**		ug/L			1181366	1288906	1	Standard
⎣	**Tl**	**205**	**0.001**	ug/L	0.000	57	129	200	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 10:36:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623c.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31544	37331	3	Standard
	Cl	**37**		ug/L			5591142	6220043	0	Standard
	Y	**89**		ug/L			285431	337286	1	Standard
	Kr	**83**		ug/L			66	66	7	Standard
⎡>	**In**	**115**		ug/L			516858	599227	2	Standard
⎢	**Ba**	**135**	**0.004**	ug/L	0.003	71	62	102	19	Standard
⎣	**Ba**	**137**	**0.002**	ug/L	0.001	25	111	160	4	Standard
⎡>	**Tb**	**159**		ug/L			1181366	1276731	1	Standard
⎣	**Tl**	**205**	**-0.000**	ug/L	0.000	10	129	114	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 10:38:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623c.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31544	37729	1	Standard
	Cl	**37**		ug/L			5591142	6256698	0	Standard
	Y	**89**		ug/L			285431	344186	1	Standard
	Kr	**83**		ug/L			66	66	20	Standard
⎡>	**In**	**115**		ug/L			516858	600514	2	Standard
⎢	**Ba**	**135**	**0.005**	ug/L	0.001	10	62	111	3	Standard
⎣	**Ba**	**137**	**0.003**	ug/L	0.001	44	111	171	10	Standard
⎡>	**Tb**	**159**		ug/L			1181366	1283242	2	Standard
⎣	**Tl**	**205**	**-0.001**	ug/L	0.000	24	129	95	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 10:39:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623c.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31544	34062	0	Standard
	Cl	**37**		ug/L			5591142	5948406	1	Standard
	Y	**89**		ug/L			285431	282738	2	Standard
	Kr	**83**		ug/L			66	60	10	Standard
⎡>	**In**	**115**		ug/L			516858	509820	2	Standard
⎢	**Ba**	**135**	**-0.003**	ug/L	0.002	65	62	46	22	Standard
⎣	**Ba**	**137**	**-0.005**	ug/L	0.002	33	111	57	29	Standard
⎡>	**Tb**	**159**		ug/L			1181366	1140437	1	Standard
⎣	**Tl**	**205**	**0.012**	ug/L	0.001	7	129	949	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 10:41:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623c.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31544	34069	5	Standard
	Cl	**37**		ug/L			5591142	5983645	1	Standard
	Y	**89**		ug/L			285431	280891	3	Standard
	Kr	**83**		ug/L			66	77	18	Standard
⎡>	**In**	**115**		ug/L			516858	506260	3	Standard
⎢	**Ba**	**135**	**-0.004**	ug/L	0.003	75	62	38	44	Standard
⎣	**Ba**	**137**	**-0.005**	ug/L	0.001	19	111	57	21	Standard
⎡>	**Tb**	**159**		ug/L			1181366	1111683	0	Standard
⎣	**Tl**	**205**	**0.008**	ug/L	0.001	8	129	669	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 10:42:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042623c.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			31544	34595	2	Standard
	Cl	**37**		ug/L			5591142	6043452	1	Standard
	Y	**89**		ug/L			285431	282338	1	Standard
	Kr	**83**		ug/L			66	71	21	Standard
⌈>	**In**	**115**		ug/L			516858	487191	1	Standard
⌊	**Ba**	**135**	**-0.004**	ug/L	0.001	19	62	36	13	Standard
⌊	**Ba**	**137**	**-0.005**	ug/L	0.001	31	111	57	27	Standard
⌈>	**Tb**	**159**		ug/L			1181366	1122731	2	Standard
⌊	**Tl**	**205**	**0.006**	ug/L	0.001	11	129	529	7	Standard

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GD00078	Instrument:	ICPMS1
Calibration Date:	04/27/2023 16:58		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Silver-107	0	0	0.2	20680	10	20613.2	20	20394.2	50	19514.82	100	18973.35
Chromium-52	0	0	0.5	60058	10	22971.9	20	20912.25	50	20531.68	100	19711.23
Chromium-53	0	0	0.5	2774	10	2415.2	20	2388.25	50	2328.72	100	2311.61
Lead-208	0	0	0.1	88180	10	83830.4	20	82680.5	50	81699.76	100	78746.71

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory: Analytical Resources, LLC
Instrument: ICPMS1
Calibration: GD00078
Calibration Date: 4/27/2023

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Silver-107	16695.93	49.2	0.9997		0.998	
Chromium-52	24030.84	81.5	0.9997		0.998	
Chromium-53	2036.297	49.7	1.0000		0.998	
Lead-208	69189.56	49.2	0.9996		0.998	

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GD00078
Instrument: ICPMS1
Calibration Date: 04/27/2023 16:58

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Arsenic-75a	0	0	0.2	365	10	312.7	20	314.3	50	308.26	100	305.08
Cadmium-111	0	0	0.1	380	10	339.5	20	337.4	50	329.12	100	313.93
Cadmium-114	0	0	0.1	900	10	860.3	20	868.9	50	848.76	100	828.31
Copper-63	0	0	0.5	4880	10	4738.3	20	4592.95	50	4511.9	100	4380.14
Copper-65	0	0	0.5	2596	10	2314.1	20	2327.65	50	2321.52	100	2196.8
Zinc-66	0	0	6	644.1667	10	621.3	20	609.5	50	589.24	100	564.98
Zinc-67	0	0	6	99.5	10	99.1	20	102.2	50	98.12	100	94.98

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Instrument: ICPMS1
Calibration: GD00078
Calibration Date: 4/27/2023

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Arsenic-75a	267.5567	49.7	1.0000		0.998	
Cadmium-111	283.325	49.6	0.9994		0.998	
Cadmium-114	717.7117	49.1	0.9998		0.998	
Copper-63	3850.548	49.2	0.9997		0.998	
Copper-65	1959.345	49.4	0.9992		0.998	
Zinc-66	504.8644	49.3	0.9996		0.998	
Zinc-67	82.31667	49.1	0.9996		0.998	

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 4/27/23 **Analyst:** MB **Sequence:** SLD0418 **Cal:** GD00078

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CAL1	L4687		
		-CAL2	L4627		
		-CAL3	L4628		
		-CAL4	L4629		
		-CAL5	L4624		
		-CAL6	L4630		
		-IBL1	—		
	✓	-ICV1	—		Std made noisy
		-ICV1	L3575		
		-ICB1	L4687		
		-CCV1	L4624		
		-CCB1	L4687		
	✓	-CRL1			Pb↑
	↓	-CRL1			Cu↑ / Repoured
		-CRL1			↓ / New Tube
	↓	-CAL1	—		
		-CCV2			Si, In, Tb sl. noisy - %R+ Analytes OK
		-CCB2			
		-CRL1	L4627		
	✓	-IFA1	—		Cr^{53}↑ / Ni60 noisy
		-IFB1	L4689		↓
		-HCV1	L3671		Mo, Tl↑ - Mo, Tl < 100
		-HCV2	L3672		Tl, Pb↑ - Pb < 200
		-IBL2	—		(Sb↑)

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 4/27/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted. MB 4/27/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-IFA1	L4688		Cr^{53}↑
		-IBL3	—		
		-CCV3			
		-CCB3			
		BLDΦ232-BLK2	REN		Ag, Cd, Ni, RSb only
		-BS2			↓
		BLDΦ717-BLK2			Ag, Mn only
		-BS2			Sc, In sl. noisy- Y, Rt Analytes OK ↓
		23DΦ576-Φ1		10	Mn only
		23CΦ673-Φ1	SWN	50	Cr only
		23CΦ658-Φ2	REN	5	Ba only
		-Φ4		↓	↓
		23CΦ735-Φ1		10	Tl
		SEQ-IBL4			
		-CCV4			
		-CCB4			
	✓	C93-1 BOTTLE TEST			
	✓	C93-2 BOTTLE TEST			
	✓	23CΦ678-Φ8	REN		Tl only
	✓	-Φ9			↓
	✓	23CΦ732-Φ1			
	✓	23CΦ741-Φ1			Sc↑ - Not Needed ↓
		23CΦ699-Φ2			Mo only
		SEQ-IBL5			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 4/27/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCV5			Tl↑
		-CCB5			
	√	-CAL1			Ba, Mn, Mo, Sb, Se, Tl Removed
		-CCV6			
		-CCB6			
		23AΦ295-Φ8	SWN	20	
		23CΦ774-Φ2			Sc↑/In noisy-%R+ Analytes OK C-NR
		-Φ3			
		-Φ4			
		-Φ1			/In noisy-%R+ Analytes OK/Match Dup
		BLDΦ365-DUP1			
		-MS1			Sc, In, Tb sl. noisy-%R + Analytes OK
		-MSD1			Sc↑/Ag²%R↓
		-PS1			60.2L K7409/Sc↑
		SEQ-IBL7			
		-CCV7			
		-CCB7			
		BLDΦ394-BLK1	SWN	20	Cu>½RL - Samples>10x conc.
		-BS1			
		23CΦ774-Φ5			Sc↑ C-NR
		-Φ6			
		-Φ7			
		-Φ8			
		-Φ9			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 4/27/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23CΦ774-1Φ	SWN	20	Tb sl. noisy - %R Analytes OK
		↓ -11	↓	↓	Sc↑ Cr NR
		SEQ-IBL8			
		-CCV8			
		-CCB8			
		23CΦ774-12	SWN	20	Sc↑ Cr NR
		-13			↓ ↓
		-14			
		23AΦ326-Φ2			Sc↑ Cr NR
		-Φ1			
		BLDΦ394-DUP1			
		-MS1			
		-MSD1			
		-PS1			
		SEQ-IBL9			
		-CCV9			
		-CCB9			
		BLDΦ659-BLK1	REN		
		-BS1			
		BLDΦ754-BLK1			
		-BS1			Sc, In, Tb noisy - %Rs Analytes OK
		23AΦ326-Φ4	SWN	20	Sc↑ Cr NR
		-Φ5			↓ ↓
32A→23A		-1Φ			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 4/27/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23AΦ326-11	SWN	20	Sc↑ Cr NR
		↓ -12	↓	↓	↓ ↓
		SEQ-IBLA			
		-CCVA			
		-CCBA			
		BLDΦ4ΦZ-BLK1	REN		
		↓ -BS1	↓		
		23AΦ326-Φ8	SWN	20	
		↓ -Φ9			
		23AΦ418-Φ1			
		-Φ2			
		-Φ4			
		-Φ5			
		↓ -Φ6	↓	↓	
		SEQ-IBLB			
		-CCVB			
		-CCBB			
	✓	-CAL1			
		-CCVC			
		↓ -CCBC			
		230Φ124-Φ2	REN	5	Zn only
		BLDΦ51Φ-DUP2	↓	↓	↓
		↓ -MS2	↓	↓	Zn %R↑ (126%)
		23AΦ418-Φ7	SWN	20	

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 4/27/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23AΦ418-Φ8	SWN	20	SCT - Not Needed
		-Φ9			
		-1Φ			
		-11			
		-12			
		SEQ-IBL1			
		-CCV1			
		-CCB1			
		230ΦΦ76-ΦIRE1	REN		Pb only
		230ΦΦΦ4-Φ2			
		-Φ4			
		230ΦΦΦ3-Φ4			
		-Φ6			
		-Φ8			
		-Φ2			
		BL0Φ4Φ2-DUP1			
		-MS1			
		SEQ-IBLE			
		-CCVE			
		-CCBE			
		230ΦΦΦ5-Φ2	REN		
		-Φ4			
		230ΦΦΦ6-Φ3			
		-Φ4			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 4/27/23 **Analyst:** MS **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		230ΦΦ2Φ-Φ2	REN		
		230Φ162-Φ2	↓		
		-Φ4	↓		
		-Φ6	↓		
		230Φ182-Φ1	↓	20	
		SEQ-IBLF			(Cr53↑/Sc,In,Tb noisy)
		-CCVF			
		-CCBF			
		230Φ135-Φ4	REN		
		-Φ6	↓		Tb sl. noisy-%R & Analytes OK
		-Φ8	↓		
		-1Φ	↓		
		-12	↓		
		-14	↓		
		-16	↓		
		230Φ17Φ-Φ2	↓		
		-Φ4	↓		
		SEQ-IBLG			
		-CCVG			
		-CCBG			
	✓	-CAL1			
		-CCVH			
		-CCBH			
		230ΦΦ81-Φ4RE1	REN		Pb only

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 4/27/23 **Analyst:** MS **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted. MS 4/27/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		230ΦΦ489-Φ1RE1	REN		Pb only
		230ΦΦ62-Φ1RE1	↓		↓
		-Φ5RE1	↓		↓
		-Φ7RE1	↓		↓
		-Φ3RE1	↓		↑/↓
		BLDΦ754-DUP1	↓		No Cu, Ni, Zn
		-MS1	↓		↓
		-MSD1	↓		↓
		SEQ. IBL1			
		-CCV1			Ge noisy / Ag, Cu, Ni, Zn↑
		-CCB1			
	✓	230Φ133-Φ1	REN		Zn↑
	✓	-Φ2	↓		
	✓	-Φ3	↓		
		230Φ135-Φ2	↓		Sc↑ - Not Needed Cd only
		BLDΦ5Φ9-DUP1	↓		↓ ↓ ↓
		-MS1	↓		↓
		230Φ262-Φ1	↓		Ag, Cd, Cr only
		BLDΦ717-DUP1	↓		↓
		-MS1	↓		↓
		SEQ-IBL2			
		-CCV2			Pb↑
		-CCB2			
		230ΦΦ2Φ6-Φ1	REN		

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 4/27/23 **Analyst:** MS **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		230Φ2Φ6-Φ3	REN		
		↓ -Φ5	↓	2	
		230Φ2Φ5-Φ1			
		↓ -Φ3			
		↓ -Φ5			
		230Φ2Φ2-Φ1			No Pb
		BLDΦ659-DUP1			↓
		↓ -MS1	↓		
		SEQ-IBLK			
		↓ -CCVK			
		↓ -CCBK			
		230Φ151-Φ1	REN		
		230Φ211-Φ1	↑		No Pb
		↓ -Φ2	↑		↓
		230Φ214-Φ1	↑		
		↓ -Φ2	↑		
		230Φ216-Φ1	↑		
		↓ -Φ2	↑		
		↓ -Φ3	↑		
		↓ -Φ4	↓		
		SEQ-IBLL			
		↓ -CCVL			Pb↑
		↓ -CCBL			
		230Φ215-Φ1	REN	2	No Cu, Pb

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 4/27/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
	✓	23Dϕ248-ϕ1	REN		As↑↑
		SEQ-IBLM			(As↑)
RE1		23Cϕ654-ϕ1RE1	REN	10,000	Ni, Zn only
		↓ -ϕ1	↓	100	Ni, Zn↑ Ni, Zn NR / No Cu, Pb
		SEQ-IBLN+O			
	✓	BLOϕ394-BLK2	SWN	20	Cu > ½RL
		SEQ-CCVM			Cu^{63}, Pb↑
		-CCBM			
	✓	-CAL1			All but Cr Removed
		-CCVN			
		-CCBN			
		23Cϕ774-ϕ2RE1	SWN	50	Cr only
		-ϕ3RE1			
		-ϕ4RE1			
		-ϕ5RE1			
		-ϕ6RE1			
	✓	-ϕ1RE1			Sc↑
		BLOϕ365-DUP2			
		-MS2			
		-MSD2			Sc↑
		-PS2			60 mL K7409 /
		SEQ-CCVO			
		-CCBO			
	✓	-CCVP			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 4/27/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
	✓	SEQ-CAL1			
		-CCVP			
		-CCBP			
A		23A0326-02RE1	SWN	50	Cr only
		-04RE1			
		-05RE1			
		-11RE1			
		-12RE1			
		-01RE1			
		BLD0394-DUP2			
		-MS2			
		-MSD2			
		-PS2			60 mL K7409
		SEQ-CCVQ			
		-CCBQ			
		23C0774-07RE1	SWN	50	Cr only
		-08RE1			
		-09RE1			
		-11RE1			
		-12RE1			
		-13RE1			
		-01RE1		100	
		BLD0365-DUP2			
		-MS2			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 4/27/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BL0φ365-MS02	SWN	100	Cr only
		SEQ-CCVR			
		↓ -CCBR			
		Rinse/DI			
				MB 4/27/23	

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Thursday, April 27, 2023 12:24:31
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.053
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	6556.9	6556.905	99.581	1.5	Standard
	In	114.9	83277.2	-433581.303	983.057	0.2	Standard
	U	238.1	93754.7	93754.664	1793.744	1.9	Standard
⌈	CeO	155.9	2845.6	0.023	0.000	1.8	Standard
| >	Ce	139.9	124548.5	124548.507	1542.105	1.2	Standard
⌊	Ce++	70.0	1081.4	0.009	0.000	3.7	Standard
	Bkgd	220.0	4.9	4.900	1.283	26.2	Standard

Current Conditions File Data

Current Value	Description
0.93	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
950.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.93	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Thursday, April 27, 2023 12:33:52
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.059
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	6198.2	6198.211	96.905	1.6	Standard
	In	114.9	84308.5	84308.480	1123.207	1.3	Standard
	U	238.1	91250.0	91249.955	1383.393	1.5	Standard
⌈	CeO	155.9	2976.7	0.025	0.000	1.2	Standard
| >	Ce	139.9	120320.3	120320.269	1090.071	0.9	Standard
⌊	Ce++	70.0	1004.0	0.008	0.000	2.0	Standard
	Bkgd	220.0	1.7	1.700	0.558	32.8	Standard

Current Conditions File Data

Current Value	Description
0.93	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
950.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.93	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 4/27/2023 12:24:29 PM
End Time: 4/27/2023 12:35:57 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 6556.90
Obtained Intensity (In 115): 83277.18
Obtained Intensity (U 238): 93754.66
Obtained Intensity (Bkgd 220): 4.90
Obtained Formula (Ce++ 70 / Ce 140): 0.009 (=1081.37 / 124548.51)
Obtained Formula (CeO 156 / Ce 140): 0.023 (=2845.55 / 124548.51)
Obtained RSD (Be 9): 0.0152
Obtained RSD (In 115): 0.0023
Obtained RSD (U 238): 0.0191

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
0.99 mm	0.55 mm	111257.56

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 0.93
Obtained Intensity (In 115): 81526.97
Obtained Formula (CeO 156 / Ce 140): 0.0245 (=2959.31 / 120619.07)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.724)
Target/Obtained mass (23.985/24.025), Target/Obtained resolution (0.7/0.686)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.691)
Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.673)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.993; Intercept = -15.46

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.991; Intercept = -14.25

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 6198.21
Obtained Intensity (In 115): 84308.48
Obtained Intensity (U 238): 91249.95
Obtained Intensity (Bkgd 220): 1.70
Obtained Formula (Ce++ 70 / Ce 140): 0.008 (=1004.04 / 120320.27)
Obtained Formula (CeO 156 / Ce 140): 0.025 (=2976.71 / 120320.27)
Obtained RSD (Be 9): 0.0156
Obtained RSD (In 115): 0.0133
Obtained RSD (U 238): 0.0152

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 4/27/2023 12:24:29 PM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 5
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 6556.90
		Obtained Intensity (In 115): 83277.18
		Obtained Intensity (U 238): 93754.66
		Obtained Intensity (Bkgd 220): 4.90
		Obtained Formula (Ce++ 70 / Ce 140): 0.009 (=1081.37 / 124548.51)
		Obtained Formula (CeO 156 / Ce 140): 0.023 (=2845.55 / 124548.51)
		Obtained RSD (Be 9): 0.0152
		Obtained RSD (In 115): 0.0023
		Obtained RSD (U 238): 0.0191

[Passed] Optimum value(s): N/A

Torch Alignment
	Optimization Settings:
		Method: Torch Alignment.mth.
		Intensity Criterion: In 115 Maximum

	Optimization Results:
		Vertical	Horizontal	Intensity
[Passed]	0.99 mm	0.55 mm	111257.56

Nebulizer Gas Flow STD/KED [NEB]
	Optimization Settings:
		Method: Optimize.mth.
			Initial Try - Start/End/Step: 0.89/0.96/0.01.
		Intensity Criterion: In 115 Maximum
		Formula Criterion: CeO 156 / Ce 140 <= 0.025

	Optimization Results:
	Initial Try

		Obtained Intensity (In 115): 81526.97
		Obtained Formula (CeO 156 / Ce 140): 0.0245 (=2959.31 / 120619.07)
[Passed] Optimum value(s): 0.93

Mass Calibration and Resolution
	Optimization Settings:
		Method: Tuning.mth.
		MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
		Iterations: 6
		Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
		Peak height (%) for Res. Opt.: 10

	Optimization Results:
	Initial Try
		Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.724)
		Target/Obtained mass (23.985/24.025), Target/Obtained resolution (0.7/0.686)
		Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.691)
		Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.673)
[Passed] Optimum value(s): N/A

QID STD/DRC
	Optimization Settings:
		Method: QID Calibration.mth.
			Initial Try - Start/End/Step: -20/0/0.5.

	Optimization Results:
	Initial Try

  Optimum value(s): Correlation Coefficient = 0.993; Intercept = -15.46

	Analyte	Mass	Points	DAC	MaxIntensity

	Li	7	41	-15.5	36542.7
	Mg	24	41	-15.5	45400
	In	115	41	-11.5	84489.1
	Ce	140	41	-11.5	129403
	Pb	208	41	-11.5	56925.2
	U	238	41	-11.5	92816.5

KED Mode QID
	Optimization Settings:
		Method: QID Calibration.mth.
			Initial Try - Start/End/Step: -20/0/0.5.

	Optimization Results:
	Initial Try

  Optimum value(s): Correlation Coefficient = 0.991; Intercept = -14.25

	Analyte	Mass	Points	DAC	MaxIntensity

	Li	7	41	-14.5	24008.2
	Mg	24	41	-14.5	53700.7
	In	115	41	-12.5	119671
	Ce	140	41	-11	114570
	Pb	208	41	-10	52030.6
	U	238	41	-10	118231

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000

```
            Intensity Criterion: U 238 > 30000
            Intensity Criterion: Bkgd 220 <= 5
            Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
            Formula Criterion: CeO 156 / Ce 140 <= 0.025
            RSD Criterion: Be 9.0122 < 0.05
            RSD Criterion: In 114.904 < 0.05
            RSD Criterion: U 238.05 < 0.05

       Optimization Results:
       Initial Try
            Obtained Intensity (Be 9): 6198.21
            Obtained Intensity (In 115): 84308.48
            Obtained Intensity (U 238): 91249.95
            Obtained Intensity (Bkgd 220): 1.70
            Obtained Formula (Ce++ 70 / Ce 140): 0.008 (=1004.04 / 120320.27)
            Obtained Formula (CeO 156 / Ce 140): 0.025 (=2976.71 / 120320.27)
            Obtained RSD (Be 9): 0.0156
            Obtained RSD (In 115): 0.0133
            Obtained RSD (U 238): 0.0152

[Passed]  Optimum value(s): N/A

End Time: 4/27/2023 12:35:57 PM
```

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Start Time: 4/27/2023 12:43:09 PM
End Time: 4/27/2023 12:44:48 PM

Detector Voltages - [Passed]
Pulse Stage Voltage - [Passed] Optimum value(s): 1000
Analog Stage Voltage - [Passed] Optimum value(s): -1600
Pulse Stage Voltage (Fine-tune) - [Passed] Optimum value(s): 1000

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Optimization Status

Start Time: 4/27/2023 12:43:09 PM

Detector Voltages
	Pulse Stage Voltage Optimization Settings:
		Method: Pulse Stage Optimization.mth.
			Initial Try - Start/End/Step: 800/1300/50.
			Retry 1 - Start/End/Step: 800/1800/50.
		Optimization Criterion (Pulse 76): 0.1

	Analog Stage Voltage Optimization Settings:
		Method: Analog Stage Optimization.mth.
		Initial Try - Start/End: -1300/-1900.
		Retry 1 - Start/End: -1300/-2400.
		Optimization Criterion (Analog 80): Target Gain 10000

	Pulse Stage Voltage Results:
	Initial Try

		Intensity Obtained For Criterion (Pulse 76): 59924.42
[Passed] Optimum value(s): 1000
	Analog Stage Voltage Results:
	Initial Try
		Interim Gain Values: 9489.64 (-1600V)
		Analyte: Analog 80
		ACEM(volts): -1600
		Achieved Gain: 9489.64
		Achieved NMax: 1.31929e+009
		Conversion Factor: 0.0970217
		Passes: 1
		Points Collected: 31
		Points Used: 3
		Coefficient: 1
[Passed] Optimum value(s): -1600
	Pulse Stage Voltage (Fine-tune) Results:
	Initial Try

		Intensity Obtained For Criterion (Pulse 76): 60819.19
[Passed] Optimum value(s): 1000

End Time: 4/27/2023 12:44:48 PM

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Start Time: 4/27/2023 12:51:27 PM
End Time: 4/27/2023 12:58:56 PM

Dual Detector Calibration
Points Collected: 401
Calibration unsuccessful for some masses due to insufficient pulse/analog crossover points

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Optimization Status

Start Time: 4/27/2023 12:51:27 PM

Dual Detector Calibration
Optimization Settings:
Method: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\DualDetectorNew.mth.
Initial Try - Start/End/Step: -20/0/0.05.

Optimization Results:
Initial Try
Points Collected: 401
Calibration unsuccessful for some masses due to insufficient pulse/analog crossover points

End Time: 4/27/2023 12:58:56 PM

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Start Time: 4/27/2023 12:59:37 PM
End Time: 4/27/2023 1:07:07 PM

Dual Detector Calibration
Points Collected: 401
Calibration unsuccessful for some masses due to insufficient pulse/analog crossover points

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Optimization Status

Start Time: 4/27/2023 12:59:37 PM

Dual Detector Calibration
Optimization Settings:
Method: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\DualDetectorNew.mth.
Initial Try - Start/End/Step: -20/0/0.05.

Optimization Results:
Initial Try
Points Collected: 401
Calibration unsuccessful for some masses due to insufficient pulse/analog crossover points

End Time: 4/27/2023 1:07:07 PM

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Thursday, April 27, 2023 13:24:10
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.069
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	6057.6	6057.618	91.925	1.5	Standard
	In	114.9	93330.6	93330.635	903.868	1.0	Standard
	U	238.1	101853.9	101853.890	757.028	0.7	Standard
⌈	CeO	155.9	3189.6	0.024	0.000	1.1	Standard
| >	Ce	139.9	131488.2	131488.246	1048.687	0.8	Standard
⌊	Ce++	70.0	1070.6	0.008	0.000	2.9	Standard
	Bkgd	220.0	3.1	3.133	0.946	30.2	Standard

Current Conditions File Data

Current Value	Description
0.93	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1000.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.93	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Start Time: 4/27/2023 1:24:10 PM
End Time: 4/27/2023 1:26:14 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 6057.62
Obtained Intensity (In 115): 93330.63
Obtained Intensity (U 238): 101853.89
Obtained Intensity (Bkgd 220): 3.13
Obtained Formula (Ce++ 70 / Ce 140): 0.008 (=1070.64 / 131488.25)
Obtained Formula (CeO 156 / Ce 140): 0.024 (=3189.62 / 131488.25)
Obtained RSD (Be 9): 0.0152
Obtained RSD (In 115): 0.0097
Obtained RSD (U 238): 0.0074

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Optimization Status

Start Time: 4/27/2023 1:24:10 PM

STD Performance Check

Optimization Settings:

Method: STD Performance Check.mth.
Intensity Criterion: Be 9 > 2000
Intensity Criterion: In 115 > 40000
Intensity Criterion: U 238 > 30000
Intensity Criterion: Bkgd 220 <= 10
Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
Formula Criterion: CeO 156 / Ce 140 <= 0.025
RSD Criterion: Be 9.0122 < 0.05
RSD Criterion: In 114.904 < 0.05
RSD Criterion: U 238.05 < 0.05

Optimization Results:

Initial Try

Obtained Intensity (Be 9): 6057.62
Obtained Intensity (In 115): 93330.63
Obtained Intensity (U 238): 101853.89
Obtained Intensity (Bkgd 220): 3.13
Obtained Formula (Ce++ 70 / Ce 140): 0.008 (=1070.64 / 131488.25)
Obtained Formula (CeO 156 / Ce 140): 0.024 (=3189.62 / 131488.25)
Obtained RSD (Be 9): 0.0152
Obtained RSD (In 115): 0.0097
Obtained RSD (U 238): 0.0074

[Passed] Optimum value(s): N/A

End Time: 4/27/2023 1:26:14 PM

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 16:58:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				26689	1	Standard
	Cl	**37**		ug/L				5423072	2	Standard
⌈>	**Sc**	**45**		ug/L				511056	1	Standard
|	**Cr**	**52**		ug/L				19523	1	Standard
|	**Cr**	**53**		ug/L				207	3	Standard
⌊	**Mn**	**55**		ug/L				581	1	Standard
⌈>	**Ge**	**72**		ug/L				39672	0	KED
|	**Ni**	**60**		ug/L				29	19	KED
|	**Ni**	**62**		ug/L				7	66	KED
|	**Cu**	**63**		ug/L				87	7	KED
|	**Cu**	**65**		ug/L				44	19	KED
|	**Zn**	**66**		ug/L				103	6	KED
|	**Zn**	**67**		ug/L				20	42	KED
|	**As**	**75**		ug/L				4	6	KED
⌊	**Se**	**78**		ug/L				12	8	KED
	Y	**89**		ug/L				311168	3	Standard
	Kr	**83**		ug/L				55	19	Standard
⌈>	**In-1**	**115**		ug/L				10463	2	KED
|	**Mo**	**98**		ug/L				14	7	KED
|	**Cd**	**111**		ug/L				3	75	KED
⌊	**Cd**	**114**		ug/L				4	82	KED
⌈>	**In**	**115**		ug/L				503680	0	Standard
|	**Ag**	**107**		ug/L				29	32	Standard
|	**Sb**	**121**		ug/L				200	4	Standard
|	**Sb**	**123**		ug/L				145	8	Standard
|	**Ba**	**135**		ug/L				96	25	Standard
⌊	**Ba**	**137**		ug/L				175	21	Standard
⌈>	**Tb**	**159**		ug/L				1211159	2	Standard
|	**Tl**	**205**		ug/L				139	9	Standard
⌊	**Pb**	**208**		ug/L				520	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 17:02:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26689	28097	1	Standard
	Cl	**37**		ug/L			5423072	5315354	3	Standard
⌈>	**Sc**	**45**		ug/L			511056	504023	0	Standard
|	**Cr**	**52**	**0.500**	ug/L	0.024	4	19523	30029	0	Standard
|	**Cr**	**53**	**0.500**	ug/L	0.049	9	207	1387	8	Standard
⌊	**Mn**	**55**	**0.500**	ug/L	0.006	1	581	16104	1	Standard
⌈>	**Ge**	**72**		ug/L			39672	39375	1	KED
|	**Ni**	**60**	**0.500**	ug/L	0.019	3	29	833	3	KED
|	**Ni**	**62**	**0.500**	ug/L	0.095	19	7	139	17	KED
|	**Cu**	**63**	**0.500**	ug/L	0.018	3	87	2440	5	KED
|	**Cu**	**65**	**0.500**	ug/L	0.032	6	44	1298	5	KED
|	**Zn**	**66**	**6.000**	ug/L	0.089	1	103	3865	0	KED
|	**Zn**	**67**	**6.000**	ug/L	0.452	7	20	597	5	KED
|	**As**	**75**	**0.200**	ug/L	0.029	14	4	73	13	KED
⌊	**Se**	**78**	**0.500**	ug/L	0.150	29	12	29	15	KED
	Y	**89**		ug/L			311168	305270	1	Standard
	Kr	**83**		ug/L			55	48	23	Standard
⌈>	**In-1**	**115**		ug/L			10463	9791	2	KED
|	**Mo**	**98**	**0.200**	ug/L	0.007	3	14	313	1	KED
|	**Cd**	**111**	**0.100**	ug/L	0.030	29	3	38	25	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.015	14	4	90	14	KED
⌈>	**In**	**115**		ug/L			503680	511394	1	Standard
|	**Ag**	**107**	**0.200**	ug/L	0.002	1	29	4136	1	Standard
|	**Sb**	**121**	**0.200**	ug/L	0.006	3	200	3416	3	Standard
|	**Sb**	**123**	**0.200**	ug/L	0.008	4	145	2633	5	Standard
|	**Ba**	**135**	**0.500**	ug/L	0.004	0	96	3256	0	Standard
⌊	**Ba**	**137**	**0.500**	ug/L	0.016	3	175	5850	1	Standard
⌈>	**Tb**	**159**		ug/L			1211159	1204706	0	Standard
|	**Tl**	**205**	**0.200**	ug/L	0.004	1	139	13029	2	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.003	2	520	8818	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 17:07:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26689	30451	2	Standard
	Cl	**37**		ug/L			5423072	5547323	2	Standard
⌈>	**Sc**	**45**		ug/L			511056	514541	0	Standard
|	**Cr**	**52**	**9.999**	ug/L	0.037	0	19523	229719	0	Standard
|	**Cr**	**53**	**10.000**	ug/L	0.133	1	207	24152	0	Standard
⌊	**Mn**	**55**	**10.000**	ug/L	0.172	1	581	319100	1	Standard
⌈>	**Ge**	**72**		ug/L			39672	39475	2	KED
|	**Ni**	**60**	**10.001**	ug/L	0.358	3	29	16650	1	KED
|	**Ni**	**62**	**10.000**	ug/L	0.164	1	7	2676	2	KED
|	**Cu**	**63**	**10.000**	ug/L	0.080	0	87	47383	2	KED
|	**Cu**	**65**	**9.998**	ug/L	0.194	1	44	23141	2	KED
|	**Zn**	**66**	**9.925**	ug/L	0.311	3	103	6213	1	KED
|	**Zn**	**67**	**10.017**	ug/L	0.092	0	20	991	3	KED
|	**As**	**75**	**10.000**	ug/L	0.213	2	4	3127	1	KED
⌊	**Se**	**78**	**9.996**	ug/L	0.145	1	12	308	1	KED
	Y	**89**		ug/L			311168	305991	0	Standard
	Kr	**83**		ug/L			55	50	10	Standard
⌈>	**In-1**	**115**		ug/L			10463	10031	1	KED
|	**Mo**	**98**	**10.000**	ug/L	0.172	1	14	15221	0	KED
|	**Cd**	**111**	**10.000**	ug/L	0.328	3	3	3395	1	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.101	1	4	8603	1	KED
⌈>	**In**	**115**		ug/L			503680	506102	3	Standard
|	**Ag**	**107**	**10.000**	ug/L	0.107	1	29	206132	3	Standard
|	**Sb**	**121**	**10.000**	ug/L	0.277	2	200	166162	1	Standard
|	**Sb**	**123**	**10.000**	ug/L	0.239	2	145	129066	0	Standard
|	**Ba**	**135**	**10.000**	ug/L	0.169	1	96	63704	1	Standard
⌊	**Ba**	**137**	**10.002**	ug/L	0.394	3	175	119752	2	Standard
⌈>	**Tb**	**159**		ug/L			1211159	1217979	0	Standard
|	**Tl**	**205**	**10.000**	ug/L	0.081	0	139	638937	1	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.094	0	520	838304	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 17:13:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26689	29505	0	Standard
	Cl	**37**		ug/L			5423072	5724399	2	Standard
⌈>	**Sc**	**45**		ug/L			511056	507150	0	Standard
|	**Cr**	**52**	**19.848**	ug/L	0.123	0	19523	418245	0	Standard
|	**Cr**	**53**	**20.030**	ug/L	0.155	0	207	47765	0	Standard
⌊	**Mn**	**55**	**19.911**	ug/L	0.171	0	581	614783	0	Standard
⌈>	**Ge**	**72**		ug/L			39672	39671	1	KED
|	**Ni**	**60**	**19.896**	ug/L	0.448	2	29	32606	2	KED
|	**Ni**	**62**	**19.829**	ug/L	0.410	2	7	5150	0	KED
|	**Cu**	**63**	**19.857**	ug/L	0.152	0	87	91859	1	KED
|	**Cu**	**65**	**20.006**	ug/L	0.250	1	44	46553	0	KED
|	**Zn**	**66**	**19.877**	ug/L	0.201	1	103	12190	2	KED
|	**Zn**	**67**	**20.191**	ug/L	0.855	4	20	2044	3	KED
|	**As**	**75**	**20.002**	ug/L	0.314	1	4	6286	0	KED
⌊	**Se**	**78**	**19.969**	ug/L	0.570	2	12	603	3	KED
	Y	**89**		ug/L			311168	305419	1	Standard
	Kr	**83**		ug/L			55	65	4	Standard
⌈>	**In-1**	**115**		ug/L			10463	9885	2	KED
|	**Mo**	**98**	**20.011**	ug/L	0.452	2	14	30066	0	KED
|	**Cd**	**111**	**20.036**	ug/L	0.618	3	3	6748	0	KED
⌊	**Cd**	**114**	**20.099**	ug/L	0.320	1	4	17378	0	KED
⌈>	**In**	**115**		ug/L			503680	501331	1	Standard
|	**Ag**	**107**	**19.996**	ug/L	0.288	1	29	407884	0	Standard
|	**Sb**	**121**	**19.979**	ug/L	0.121	0	200	327467	1	Standard
|	**Sb**	**123**	**19.947**	ug/L	0.182	0	145	252327	1	Standard
|	**Ba**	**135**	**19.986**	ug/L	0.191	0	96	125724	1	Standard
⌊	**Ba**	**137**	**19.901**	ug/L	0.256	1	175	231456	1	Standard
⌈>	**Tb**	**159**		ug/L			1211159	1261913	0	Standard
|	**Tl**	**205**	**19.864**	ug/L	0.066	0	139	1279865	0	Standard
⌊	**Pb**	**208**	**19.801**	ug/L	0.403	2	520	1653610	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 17:18:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26689	31534	1	Standard
	Cl	**37**		ug/L			5423072	5831050	2	Standard
⌈>	**Sc**	**45**		ug/L			511056	510162	2	Standard
|	**Cr**	**52**	**49.971**	ug/L	1.292	2	19523	1026584	2	Standard
|	**Cr**	**53**	**49.778**	ug/L	1.823	3	207	116436	1	Standard
⌊	**Mn**	**55**	**49.786**	ug/L	1.485	2	581	1512302	0	Standard
⌈>	**Ge**	**72**		ug/L			39672	38936	0	KED
|	**Ni**	**60**	**49.949**	ug/L	0.625	1	29	79891	0	KED
|	**Ni**	**62**	**50.111**	ug/L	0.265	0	7	12908	0	KED
|	**Cu**	**63**	**49.953**	ug/L	0.348	0	87	225595	0	KED
|	**Cu**	**65**	**50.140**	ug/L	0.537	1	44	116076	1	KED
|	**Zn**	**66**	**49.857**	ug/L	0.688	1	103	29462	0	KED
|	**Zn**	**67**	**49.937**	ug/L	1.354	2	20	4906	2	KED
|	**As**	**75**	**49.997**	ug/L	0.373	0	4	15413	0	KED
⌊	**Se**	**78**	**50.018**	ug/L	0.932	1	12	1467	1	KED
	Y	**89**		ug/L			311168	300093	0	Standard
	Kr	**83**		ug/L			55	60	6	Standard
⌈>	**In-1**	**115**		ug/L			10463	9646	1	KED
|	**Mo**	**98**	**50.243**	ug/L	0.123	0	14	75499	1	KED
|	**Cd**	**111**	**50.011**	ug/L	0.237	0	3	16456	1	KED
⌊	**Cd**	**114**	**50.050**	ug/L	0.486	0	4	42438	0	KED
⌈>	**In**	**115**		ug/L			503680	489650	1	Standard
|	**Ag**	**107**	**49.826**	ug/L	0.437	0	29	975741	2	Standard
|	**Sb**	**121**	**49.985**	ug/L	0.733	1	200	798834	2	Standard
|	**Sb**	**123**	**50.204**	ug/L	0.240	0	145	632954	1	Standard
|	**Ba**	**135**	**49.914**	ug/L	0.650	1	96	303930	2	Standard
⌊	**Ba**	**137**	**49.814**	ug/L	0.476	0	175	555352	2	Standard
⌈>	**Tb**	**159**		ug/L			1211159	1205617	1	Standard
|	**Tl**	**205**	**50.253**	ug/L	1.332	2	139	3172788	1	Standard
⌊	**Pb**	**208**	**50.199**	ug/L	1.140	2	520	4084988	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 17:25:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26689	29987	2	Standard
	Cl	**37**		ug/L			5423072	5871612	2	Standard
⌈>	**Sc**	**45**		ug/L			511056	510313	0	Standard
|	**Cr**	**52**	**99.240**	ug/L	1.079	1	19523	1971123	1	Standard
|	**Cr**	**53**	**99.723**	ug/L	1.310	1	207	231161	1	Standard
⌊	**Mn**	**55**	**99.651**	ug/L	0.637	0	581	2994194	1	Standard
⌈>	**Ge**	**72**		ug/L			39672	38267	0	KED
|	**Ni**	**60**	**99.806**	ug/L	2.507	2	29	155856	2	KED
|	**Ni**	**62**	**99.879**	ug/L	1.560	1	7	25177	1	KED
|	**Cu**	**63**	**99.697**	ug/L	0.925	0	87	438014	0	KED
|	**Cu**	**65**	**99.186**	ug/L	1.175	1	44	219680	1	KED
|	**Zn**	**66**	**99.393**	ug/L	1.046	1	103	56498	0	KED
|	**Zn**	**67**	**99.662**	ug/L	0.764	0	20	9498	0	KED
|	**As**	**75**	**100.161**	ug/L	0.535	0	4	30508	0	KED
⌊	**Se**	**78**	**99.594**	ug/L	0.876	0	12	2821	1	KED
	Y	**89**		ug/L			311168	302962	2	Standard
	Kr	**83**		ug/L			55	67	20	Standard
⌈>	**In-1**	**115**		ug/L			10463	9482	0	KED
|	**Mo**	**98**	**100.486**	ug/L	0.365	0	14	150861	0	KED
|	**Cd**	**111**	**99.305**	ug/L	0.903	0	3	31393	0	KED
⌊	**Cd**	**114**	**99.855**	ug/L	0.806	0	4	82831	0	KED
⌈>	**In**	**115**		ug/L			503680	481430	1	Standard
|	**Ag**	**107**	**99.660**	ug/L	0.647	0	29	1897335	1	Standard
|	**Sb**	**121**	**99.636**	ug/L	0.835	0	200	1546429	1	Standard
|	**Sb**	**123**	**99.584**	ug/L	1.506	1	145	1217417	1	Standard
|	**Ba**	**135**	**98.923**	ug/L	2.800	2	96	571731	4	Standard
⌊	**Ba**	**137**	**99.192**	ug/L	1.615	1	175	1058491	1	Standard
⌈>	**Tb**	**159**		ug/L			1211159	1189191	1	Standard
|	**Tl**	**205**	**99.451**	ug/L	1.381	1	139	6082930	0	Standard
⌊	**Pb**	**208**	**99.556**	ug/L	1.973	1	520	7874671	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 17:32:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26689	26330	3	Standard
	Cl	**37**		ug/L			5423072	5540103	1	Standard
⌈>	**Sc**	**45**		ug/L			511056	502754	1	Standard
|	**Cr**	**52**	**-0.007**	ug/L	0.037	517	19523	19064	2	Standard
|	**Cr**	**53**	**-0.016**	ug/L	0.002	13	207	166	1	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.000	62	581	587	1	Standard
⌈>	**Ge**	**72**		ug/L			39672	38828	1	KED
|	**Ni**	**60**	**0.002**	ug/L	0.004	259	29	31	21	KED
|	**Ni**	**62**	**0.003**	ug/L	0.024	775	7	8	74	KED
|	**Cu**	**63**	**-0.000**	ug/L	0.005	965	87	83	25	KED
|	**Cu**	**65**	**0.000**	ug/L	0.003	2074	44	43	15	KED
|	**Zn**	**66**	**0.015**	ug/L	0.016	107	103	109	8	KED
|	**Zn**	**67**	**-0.022**	ug/L	0.013	60	20	17	6	KED
|	**As**	**75**	**0.003**	ug/L	0.005	173	4	4	31	KED
⌊	**Se**	**78**	**0.110**	ug/L	0.107	97	12	15	19	KED
	Y	**89**		ug/L			311168	298740	1	Standard
	Kr	**83**		ug/L			55	57	22	Standard
⌈>	**In-1**	**115**		ug/L			10463	9777	0	KED
|	**Mo**	**98**	**0.013**	ug/L	0.004	31	14	32	19	KED
|	**Cd**	**111**	**0.004**	ug/L	0.006	170	3	4	48	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	374	4	5	66	KED
⌈>	**In**	**115**		ug/L			503680	493364	1	Standard
|	**Ag**	**107**	**0.004**	ug/L	0.000	3	29	105	2	Standard
|	**Sb**	**121**	**0.107**	ug/L	0.006	6	200	1894	3	Standard
|	**Sb**	**123**	**0.098**	ug/L	0.009	9	145	1363	6	Standard
|	**Ba**	**135**	**-0.002**	ug/L	0.004	229	96	84	29	Standard
⌊	**Ba**	**137**	**0.000**	ug/L	0.000	40	175	177	2	Standard
⌈>	**Tb**	**159**		ug/L			1211159	1185756	1	Standard
|	**Tl**	**205**	**0.006**	ug/L	0.000	2	139	517	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	48	520	579	6	Standard

Sample Information

Sample Date/Time: Thursday, April 27, 2023 17:25:19
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.m
Mass Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

Calibration

Analyte	Mass	**r Corr Coef**	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
C	13							
Cl	37							
Sc	45							
Cr	52	**0.9999**	0.039	0.50	10	20	50	100
Cr	53	**1.0000**	0.005	0.50	10	20	50	100
Mn	55	**1.0000**	0.059	0.50	10	20	50	100
Ge	72							
Ni	60	**1.0000**	0.041	0.50	10	20	50	100
Ni	62	**1.0000**	0.007	0.50	10	20	50	100
Cu	63	**1.0000**	0.115	0.50	10	20	50	100
Cu	65	**0.9999**	0.058	0.50	10	20	50	100
Zn	66	**0.9999**	0.015	6.00	10	20	50	100
Zn	67	**1.0000**	0.002	6.00	10	20	50	100
As	75	**1.0000**	0.008	0.20	10	20	50	100
Se	78	**1.0000**	0.001	0.50	10	20	50	100
Y	89							
Kr	83							
In-1	115							
Mo	98	**0.9999**	0.158	0.20	10	20	50	100
Cd	111	**0.9999**	0.033	0.10	10	20	50	100
Cd	114	**1.0000**	0.087	0.10	10	20	50	100
In	115							
Ag	107	**1.0000**	0.040	0.20	10	20	50	100
Sb	121	**1.0000**	0.032	0.20	10	20	50	100
Sb	123	**1.0000**	0.025	0.20	10	20	50	100
Ba	135	**0.9998**	0.012	0.50	10	20	50	100
Ba	137	**0.9999**	0.022	0.50	10	20	50	100
Tb	159							
Tl	205	**0.9999**	0.051	0.20	10	20	50	100
Pb	208	**1.0000**	0.067	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 17:39:18

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26689	31167	3	Standard
	Cl	37		ug/L			5423072	5831327	3	Standard
>	Sc	45		ug/L			511056	483577	10	Standard
	Cr	52	55.002	ug/L	4.804	8	19523	1037224	2	Standard
	Cr	53	55.392	ug/L	5.295	9	207	120941	1	Standard
	Mn	55	55.994	ug/L	4.851	8	581	1584840	2	Standard
>	Ge	72		ug/L			39672	38767	0	KED
	Ni	60	52.176	ug/L	0.417	0	29	82561	1	KED
	Ni	62	52.710	ug/L	0.544	1	7	13464	1	KED
	Cu	63	51.751	ug/L	1.021	1	87	230360	1	KED
	Cu	65	53.183	ug/L	1.134	2	44	119336	1	KED
	Zn	66	51.383	ug/L	0.515	1	103	29638	0	KED
	Zn	67	51.626	ug/L	1.035	2	20	4994	2	KED
	As	75	48.542	ug/L	0.890	1	4	14979	1	KED
	Se	78	79.058	ug/L	0.465	0	12	2271	0	KED
	Y	89		ug/L			311168	299073	10	Standard
	Kr	83		ug/L			55	66	16	Standard
>	In-1	115		ug/L			10463	10117	1	KED
	Mo	98	47.979	ug/L	0.566	1	14	76854	0	KED
	Cd	111	50.284	ug/L	0.626	1	3	16960	0	KED
	Cd	114	48.945	ug/L	1.365	2	4	43312	1	KED
>	In	115		ug/L			503680	470509	11	Standard
	Ag	107	55.476	ug/L	5.760	10	29	1024296	2	Standard
	Sb	121	54.495	ug/L	5.716	10	200	820365	2	Standard
	Sb	123	54.055	ug/L	5.371	9	145	641157	1	Standard
	Ba	135	56.639	ug/L	5.755	10	96	317478	1	Standard
	Ba	137	56.083	ug/L	5.424	9	175	580785	2	Standard
>	Tb	159		ug/L			1211159	1157854	11	Standard
	Tl	205	55.062	ug/L	5.568	10	139	3254696	1	Standard
	Pb	208	54.700	ug/L	6.512	11	520	4175916	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 17:46:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26689	31593	1	Standard
	Cl	**37**		ug/L			5423072	5848553	2	Standard
⌈>	**Sc**	**45**		ug/L			511056	513162	2	Standard
|	**Cr**	**52**	**52.915**	ug/L	2.332	4	19523	1065402	2	Standard
|	**Cr**	**53**	**51.695**	ug/L	0.853	1	207	120571	1	Standard
⌊	**Mn**	**55**	**51.799**	ug/L	0.251	0	581	1565215	2	Standard
⌈>	**Ge**	**72**		ug/L			39672	39132	0	KED
|	**Ni**	**60**	**51.230**	ug/L	1.655	3	29	81823	3	KED
|	**Ni**	**62**	**51.169**	ug/L	0.617	1	7	13194	1	KED
|	**Cu**	**63**	**51.386**	ug/L	0.483	0	87	230900	0	KED
|	**Cu**	**65**	**52.122**	ug/L	0.513	0	44	118064	0	KED
|	**Zn**	**66**	**50.394**	ug/L	0.254	0	103	29343	0	KED
|	**Zn**	**67**	**50.223**	ug/L	0.828	1	20	4904	2	KED
|	**As**	**75**	**48.238**	ug/L	0.742	1	4	15026	1	KED
⌊	**Se**	**78**	**79.473**	ug/L	0.694	0	12	2304	0	KED
	Y	**89**		ug/L			311168	310712	3	Standard
	Kr	**83**		ug/L			55	55	3	Standard
⌈>	**In-1**	**115**		ug/L			10463	10017	0	KED
|	**Mo**	**98**	**48.586**	ug/L	0.883	1	14	77069	2	KED
|	**Cd**	**111**	**50.593**	ug/L	0.404	0	3	16898	1	KED
⌊	**Cd**	**114**	**49.505**	ug/L	0.830	1	4	43385	1	KED
⌈>	**In**	**115**		ug/L			503680	502834	1	Standard
|	**Ag**	**107**	**50.936**	ug/L	2.422	4	29	1012418	3	Standard
|	**Sb**	**121**	**50.031**	ug/L	1.820	3	200	810872	2	Standard
|	**Sb**	**123**	**49.354**	ug/L	0.952	1	145	630167	0	Standard
|	**Ba**	**135**	**52.460**	ug/L	1.610	3	96	316563	1	Standard
⌊	**Ba**	**137**	**50.542**	ug/L	1.202	2	175	563292	0	Standard
⌈>	**Tb**	**159**		ug/L			1211159	1219095	1	Standard
|	**Tl**	**205**	**51.432**	ug/L	1.160	2	139	3224779	1	Standard
⌊	**Pb**	**208**	**51.012**	ug/L	0.808	1	520	4136745	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 17:54:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26689	26243	2	Standard
	Cl	**37**		ug/L			5423072	5614755	1	Standard
⌈>	**Sc**	**45**		ug/L			511056	505931	1	Standard
|	**Cr**	**52**	**-0.010**	ug/L	0.045	450	19523	19139	5	Standard
|	**Cr**	**53**	**-0.016**	ug/L	0.004	24	207	169	5	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.001	188	581	558	7	Standard
⌈>	**Ge**	**72**		ug/L			39672	39147	0	KED
|	**Ni**	**60**	**-0.001**	ug/L	0.004	316	29	26	24	KED
|	**Ni**	**62**	**-0.012**	ug/L	0.018	153	7	4	107	KED
|	**Cu**	**63**	**0.002**	ug/L	0.002	67	87	97	7	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.002	258	44	41	12	KED
|	**Zn**	**66**	**-0.004**	ug/L	0.031	757	103	99	17	KED
|	**Zn**	**67**	**-0.049**	ug/L	0.020	40	20	15	12	KED
|	**As**	**75**	**0.003**	ug/L	0.003	126	4	4	22	KED
⌊	**Se**	**78**	**0.017**	ug/L	0.043	247	12	12	10	KED
	Y	**89**		ug/L			311168	308379	3	Standard
	Kr	**83**		ug/L			55	57	24	Standard
⌈>	**In-1**	**115**		ug/L			10463	9878	1	KED
|	**Mo**	**98**	**0.008**	ug/L	0.003	33	14	26	16	KED
|	**Cd**	**111**	**0.006**	ug/L	0.002	28	3	5	10	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.003	192	4	6	49	KED
⌈>	**In**	**115**		ug/L			503680	498215	2	Standard
|	**Ag**	**107**	**0.002**	ug/L	0.001	30	29	65	19	Standard
|	**Sb**	**121**	**0.033**	ug/L	0.001	3	200	727	3	Standard
|	**Sb**	**123**	**0.034**	ug/L	0.002	6	145	579	5	Standard
|	**Ba**	**135**	**-0.000**	ug/L	0.003	1375	96	94	19	Standard
⌊	**Ba**	**137**	**0.000**	ug/L	0.002	1252	175	175	13	Standard
⌈>	**Tb**	**159**		ug/L			1211159	1200308	1	Standard
|	**Tl**	**205**	**0.003**	ug/L	0.000	11	139	347	7	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	45	520	582	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 18:00:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26689	30332	2	Standard
	Cl	**37**		ug/L			5423072	5825479	1	Standard
⌈>	**Sc**	**45**		ug/L			511056	511595	1	Standard
|	**Cr**	**52**	**51.670**	ug/L	0.577	1	19523	1038130	1	Standard
|	**Cr**	**53**	**50.490**	ug/L	0.716	1	207	117425	2	Standard
⌊	**Mn**	**55**	**50.994**	ug/L	0.700	1	581	1536115	0	Standard
⌈>	**Ge**	**72**		ug/L			39672	39129	0	KED
|	**Ni**	**60**	**50.053**	ug/L	0.616	1	29	79937	0	KED
|	**Ni**	**62**	**50.454**	ug/L	1.902	3	7	13009	3	KED
|	**Cu**	**63**	**50.662**	ug/L	0.820	1	87	227630	1	KED
|	**Cu**	**65**	**51.110**	ug/L	0.630	1	44	115765	0	KED
|	**Zn**	**66**	**50.519**	ug/L	0.386	0	103	29414	0	KED
|	**Zn**	**67**	**51.089**	ug/L	0.998	1	20	4988	2	KED
|	**As**	**75**	**50.112**	ug/L	0.656	1	4	15609	1	KED
⌊	**Se**	**78**	**50.654**	ug/L	1.269	2	12	1473	2	KED
	Y	**89**		ug/L			311168	306600	1	Standard
	Kr	**83**		ug/L			55	52	12	Standard
⌈>	**In-1**	**115**		ug/L			10463	9815	1	KED
|	**Mo**	**98**	**49.060**	ug/L	1.312	2	14	76230	1	KED
|	**Cd**	**111**	**50.431**	ug/L	0.865	1	3	16502	0	KED
⌊	**Cd**	**114**	**49.130**	ug/L	1.527	3	4	42177	1	KED
⌈>	**In**	**115**		ug/L			503680	492187	1	Standard
|	**Ag**	**107**	**50.624**	ug/L	0.323	0	29	985308	1	Standard
|	**Sb**	**121**	**50.635**	ug/L	0.755	1	200	803592	2	Standard
|	**Sb**	**123**	**50.221**	ug/L	1.223	2	145	627664	1	Standard
|	**Ba**	**135**	**51.943**	ug/L	1.521	2	96	306827	1	Standard
⌊	**Ba**	**137**	**51.468**	ug/L	0.182	0	175	561615	1	Standard
⌈>	**Tb**	**159**		ug/L			1211159	1215164	1	Standard
|	**Tl**	**205**	**50.636**	ug/L	0.811	1	139	3164607	1	Standard
⌊	**Pb**	**208**	**50.478**	ug/L	0.592	1	520	4080083	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 18:07:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26689	26416	2	Standard
	Cl	**37**		ug/L			5423072	5635681	2	Standard
⌈>	**Sc**	**45**		ug/L			511056	494535	1	Standard
|	**Cr**	**52**	**0.010**	ug/L	0.024	237	19523	19080	2	Standard
|	**Cr**	**53**	**-0.019**	ug/L	0.008	44	207	159	12	Standard
⌊	**Mn**	**55**	**0.000**	ug/L	0.001	364	581	572	4	Standard
⌈>	**Ge**	**72**		ug/L			39672	38936	1	KED
|	**Ni**	**60**	**0.002**	ug/L	0.003	145	29	31	13	KED
|	**Ni**	**62**	**0.003**	ug/L	0.011	375	7	8	35	KED
|	**Cu**	**63**	**0.002**	ug/L	0.004	238	87	93	19	KED
|	**Cu**	**65**	**0.005**	ug/L	0.006	115	44	54	23	KED
|	**Zn**	**66**	**-0.003**	ug/L	0.005	158	103	99	3	KED
|	**Zn**	**67**	**0.003**	ug/L	0.058	1675	20	20	28	KED
|	**As**	**75**	**-0.001**	ug/L	0.005	354	4	3	39	KED
⌊	**Se**	**78**	**0.147**	ug/L	0.112	76	12	16	20	KED
	Y	**89**		ug/L			311168	303467	2	Standard
	Kr	**83**		ug/L			55	53	9	Standard
⌈>	**In-1**	**115**		ug/L			10463	9813	0	KED
|	**Mo**	**98**	**0.004**	ug/L	0.005	120	14	19	37	KED
|	**Cd**	**111**	**0.010**	ug/L	0.006	58	3	6	31	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.001	56	4	2	53	KED
⌈>	**In**	**115**		ug/L			503680	486011	2	Standard
|	**Ag**	**107**	**0.002**	ug/L	0.000	17	29	75	11	Standard
|	**Sb**	**121**	**0.055**	ug/L	0.004	8	200	1048	5	Standard
|	**Sb**	**123**	**0.055**	ug/L	0.003	4	145	821	1	Standard
|	**Ba**	**135**	**0.001**	ug/L	0.003	224	96	100	15	Standard
⌊	**Ba**	**137**	**0.002**	ug/L	0.002	117	175	188	14	Standard
⌈>	**Tb**	**159**		ug/L			1211159	1206299	2	Standard
|	**Tl**	**205**	**0.003**	ug/L	0.000	16	139	313	11	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	45	520	532	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 18:12:50

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26689	27116	2	Standard
	Cl	**37**		ug/L			5423072	5531788	1	Standard
⌈>	**Sc**	**45**		ug/L			511056	505858	2	Standard
|	**Cr**	**52**	**0.517**	ug/L	0.026	4	19523	29391	0	Standard
|	**Cr**	**53**	**0.509**	ug/L	0.011	2	207	1374	3	Standard
⌊	**Mn**	**55**	**0.541**	ug/L	0.007	1	581	16687	1	Standard
⌈>	**Ge**	**72**		ug/L			39672	38999	1	KED
|	**Ni**	**60**	**0.587**	ug/L	0.030	5	29	962	4	KED
|	**Ni**	**62**	**0.616**	ug/L	0.031	5	7	165	5	KED
|	**Cu**	**63**	**0.502**	ug/L	0.017	3	87	2334	3	KED
|	**Cu**	**65**	**0.554**	ug/L	0.032	5	44	1294	6	KED
|	**Zn**	**66**	**6.276**	ug/L	0.135	2	103	3731	2	KED
|	**Zn**	**67**	**5.761**	ug/L	0.231	4	20	578	4	KED
|	**As**	**75**	**0.195**	ug/L	0.006	3	4	64	3	KED
⌊	**Se**	**78**	**0.591**	ug/L	0.056	9	12	29	5	KED
	Y	**89**		ug/L			311168	305731	2	Standard
	Kr	**83**		ug/L			55	45	17	Standard
⌈>	**In-1**	**115**		ug/L			10463	9793	2	KED
|	**Mo**	**98**	**0.191**	ug/L	0.012	6	14	309	7	KED
|	**Cd**	**111**	**0.113**	ug/L	0.018	15	3	40	15	KED
⌊	**Cd**	**114**	**0.106**	ug/L	0.002	1	4	95	4	KED
⌈>	**In**	**115**		ug/L			503680	497663	1	Standard
|	**Ag**	**107**	**0.207**	ug/L	0.009	4	29	4094	5	Standard
|	**Sb**	**121**	**0.213**	ug/L	0.004	2	200	3612	0	Standard
|	**Sb**	**123**	**0.209**	ug/L	0.004	2	145	2785	1	Standard
|	**Ba**	**135**	**0.537**	ug/L	0.006	1	96	3304	1	Standard
⌊	**Ba**	**137**	**0.524**	ug/L	0.002	0	175	5950	0	Standard
⌈>	**Tb**	**159**		ug/L			1211159	1229830	0	Standard
|	**Tl**	**205**	**0.203**	ug/L	0.003	1	139	12957	1	Standard
⌊	**Pb**	**208**	**0.157**	ug/L	0.003	1	520	13342	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 18:18:31

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26689	25907	2	Standard
	Cl	**37**		ug/L			5423072	5543137	1	Standard
⌈>	**Sc**	**45**		ug/L			511056	510709	1	Standard
|	**Cr**	**52**	**0.519**	ug/L	0.043	8	19523	29721	1	Standard
|	**Cr**	**53**	**0.483**	ug/L	0.022	4	207	1327	2	Standard
⌊	**Mn**	**55**	**0.515**	ug/L	0.007	1	581	16054	0	Standard
⌈>	**Ge**	**72**		ug/L			39672	38610	1	KED
|	**Ni**	**60**	**0.504**	ug/L	0.003	0	29	822	1	KED
|	**Ni**	**62**	**0.543**	ug/L	0.059	10	7	145	9	KED
|	**Cu**	**63**	**1.504**	ug/L	0.018	1	87	6750	0	KED
|	**Cu**	**65**	**1.555**	ug/L	0.044	2	44	3515	2	KED
|	**Zn**	**66**	**6.374**	ug/L	0.078	1	103	3749	1	KED
|	**Zn**	**67**	**5.717**	ug/L	0.261	4	20	568	3	KED
|	**As**	**75**	**0.202**	ug/L	0.009	4	4	66	4	KED
⌊	**Se**	**78**	**0.647**	ug/L	0.162	25	12	30	15	KED
	Y	**89**		ug/L			311168	311146	1	Standard
	Kr	**83**		ug/L			55	52	14	Standard
⌈>	**In-1**	**115**		ug/L			10463	9944	0	KED
|	**Mo**	**98**	**0.180**	ug/L	0.004	2	14	296	2	KED
|	**Cd**	**111**	**0.099**	ug/L	0.027	27	3	35	26	KED
⌊	**Cd**	**114**	**0.096**	ug/L	0.016	16	4	88	15	KED
⌈>	**In**	**115**		ug/L			503680	506227	0	Standard
|	**Ag**	**107**	**0.208**	ug/L	0.005	2	29	4199	2	Standard
|	**Sb**	**121**	**0.203**	ug/L	0.008	3	200	3515	3	Standard
|	**Sb**	**123**	**0.199**	ug/L	0.004	2	145	2707	1	Standard
|	**Ba**	**135**	**0.504**	ug/L	0.026	5	96	3158	4	Standard
⌊	**Ba**	**137**	**0.515**	ug/L	0.002	0	175	5951	0	Standard
⌈>	**Tb**	**159**		ug/L			1211159	1223254	1	Standard
|	**Tl**	**205**	**0.202**	ug/L	0.004	2	139	12848	0	Standard
⌊	**Pb**	**208**	**0.102**	ug/L	0.005	5	520	8784	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 18:25:02

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26689	26209	2	Standard
	Cl	**37**		ug/L			5423072	5486888	1	Standard
⌈>	**Sc**	**45**		ug/L			511056	505597	1	Standard
|	**Cr**	**52**	**0.527**	ug/L	0.052	9	19523	29565	1	Standard
|	**Cr**	**53**	**0.509**	ug/L	0.015	2	207	1373	0	Standard
⌊	**Mn**	**55**	**0.521**	ug/L	0.018	3	581	16062	1	Standard
⌈>	**Ge**	**72**		ug/L			39672	39680	0	KED
|	**Ni**	**60**	**0.501**	ug/L	0.013	2	29	840	3	KED
|	**Ni**	**62**	**0.585**	ug/L	0.018	3	7	160	3	KED
|	**Cu**	**63**	**0.929**	ug/L	0.006	0	87	4319	1	KED
|	**Cu**	**65**	**0.922**	ug/L	0.010	1	44	2160	1	KED
|	**Zn**	**66**	**6.103**	ug/L	0.160	2	103	3693	1	KED
|	**Zn**	**67**	**5.758**	ug/L	0.356	6	20	587	5	KED
|	**As**	**75**	**0.196**	ug/L	0.015	7	4	66	7	KED
⌊	**Se**	**78**	**0.411**	ug/L	0.028	6	12	24	3	KED
	Y	**89**		ug/L			311168	310688	0	Standard
	Kr	**83**		ug/L			55	51	18	Standard
⌈>	**In-1**	**115**		ug/L			10463	9960	1	KED
|	**Mo**	**98**	**0.206**	ug/L	0.016	7	14	339	8	KED
|	**Cd**	**111**	**0.096**	ug/L	0.002	2	3	34	1	KED
⌊	**Cd**	**114**	**0.099**	ug/L	0.011	11	4	90	9	KED
⌈>	**In**	**115**		ug/L			503680	505491	2	Standard
|	**Ag**	**107**	**0.203**	ug/L	0.005	2	29	4095	2	Standard
|	**Sb**	**121**	**0.202**	ug/L	0.008	4	200	3487	2	Standard
|	**Sb**	**123**	**0.191**	ug/L	0.012	6	145	2599	3	Standard
|	**Ba**	**135**	**0.493**	ug/L	0.017	3	96	3085	1	Standard
⌊	**Ba**	**137**	**0.510**	ug/L	0.018	3	175	5885	1	Standard
⌈>	**Tb**	**159**		ug/L			1211159	1220625	1	Standard
|	**Tl**	**205**	**0.200**	ug/L	0.003	1	139	12674	0	Standard
⌊	**Pb**	**208**	**0.103**	ug/L	0.003	2	520	8879	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 18:32:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				25241	1	Standard
	Cl	**37**		ug/L				5384034	2	Standard
>	**Sc**	**45**		ug/L				495146	0	Standard
	Cr	**52**		ug/L				19255	1	Standard
	Cr	**53**		ug/L				166	8	Standard
	Mn	**55**		ug/L				514	3	Standard
>	**Ge**	**72**		ug/L				38398	1	KED
	Ni	**60**		ug/L				25	11	KED
	Ni	**62**		ug/L				1		KED
	Cu	**63**		ug/L				59	16	KED
	Cu	**65**		ug/L				45	13	KED
	Zn	**66**		ug/L				76	9	KED
	Zn	**67**		ug/L				17	19	KED
	As	**75**		ug/L				2	16	KED
	Se	**78**		ug/L				14	6	KED
	Y	**89**		ug/L				301489	2	Standard
	Kr	**83**		ug/L				55	17	Standard
>	**In-1**	**115**		ug/L				9770	4	KED
	Mo	**98**		ug/L				8	49	KED
	Cd	**111**		ug/L				4	32	KED
	Cd	**114**		ug/L				4	72	KED
>	**In**	**115**		ug/L				485826	1	Standard
	Ag	**107**		ug/L				26	25	Standard
	Sb	**121**		ug/L				201	9	Standard
	Sb	**123**		ug/L				168	8	Standard
	Ba	**135**		ug/L				84	7	Standard
	Ba	**137**		ug/L				154	14	Standard
>	**Tb**	**159**		ug/L				1205564	2	Standard
	Tl	**205**		ug/L				157	14	Standard
	Pb	**208**		ug/L				403	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 18:37:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25241	29934	2	Standard
	Cl	**37**		ug/L			5384034	5751963	2	Standard
⌈>	**Sc**	**45**		ug/L			495146	471964	6	Standard
|	**Cr**	**52**	**51.471**	ug/L	0.678	1	19255	954080	5	Standard
|	**Cr**	**53**	**51.301**	ug/L	0.844	1	166	109957	5	Standard
⌊	**Mn**	**55**	**51.622**	ug/L	0.780	1	514	1433964	5	Standard
⌈>	**Ge**	**72**		ug/L			38398	39341	0	KED
|	**Ni**	**60**	**50.070**	ug/L	0.113	0	25	80399	0	KED
|	**Ni**	**62**	**50.286**	ug/L	0.827	1	1	13030	1	KED
|	**Cu**	**63**	**50.551**	ug/L	0.496	0	59	228341	0	KED
|	**Cu**	**65**	**50.592**	ug/L	0.259	0	45	115220	0	KED
|	**Zn**	**66**	**50.959**	ug/L	0.982	1	76	29805	1	KED
|	**Zn**	**67**	**50.247**	ug/L	2.213	4	17	4930	4	KED
|	**As**	**75**	**49.887**	ug/L	0.089	0	2	15622	0	KED
⌊	**Se**	**78**	**50.106**	ug/L	0.456	0	14	1468	1	KED
	Y	**89**		ug/L			301489	284863	6	Standard
	Kr	**83**		ug/L			55	55	31	Standard
⌈>	**In-1**	**115**		ug/L			9770	9675	0	KED
|	**Mo**	**98**	**49.637**	ug/L	0.845	1	8	76041	1	KED
|	**Cd**	**111**	**50.873**	ug/L	0.610	1	4	16412	0	KED
⌊	**Cd**	**114**	**50.003**	ug/L	1.170	2	4	42322	1	KED
⌈>	**In**	**115**		ug/L			485826	460250	6	Standard
|	**Ag**	**107**	**51.143**	ug/L	1.522	2	26	929794	4	Standard
|	**Sb**	**121**	**50.788**	ug/L	1.499	2	201	752768	4	Standard
|	**Sb**	**123**	**50.646**	ug/L	0.811	1	168	591647	5	Standard
|	**Ba**	**135**	**51.903**	ug/L	0.609	1	84	286634	5	Standard
⌊	**Ba**	**137**	**51.489**	ug/L	1.427	2	154	524725	3	Standard
⌈>	**Tb**	**159**		ug/L			1205564	1139416	6	Standard
|	**Tl**	**205**	**51.282**	ug/L	1.474	2	157	3003885	5	Standard
⌊	**Pb**	**208**	**50.089**	ug/L	0.511	1	403	3795082	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 18:45:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25241	25406	2	Standard
	Cl	**37**		ug/L			5384034	5535654	2	Standard
⌈>	**Sc**	**45**		ug/L			495146	505044	1	Standard
|	**Cr**	**52**	**-0.040**	ug/L	0.010	25	19255	18863	2	Standard
|	**Cr**	**53**	**-0.002**	ug/L	0.004	208	166	165	3	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.002	182	514	499	9	Standard
⌈>	**Ge**	**72**		ug/L			38398	38844	1	KED
|	**Ni**	**60**	**0.006**	ug/L	0.007	107	25	35	29	KED
|	**Ni**	**62**	**0.010**	ug/L	0.017	174	1	4	98	KED
|	**Cu**	**63**	**0.011**	ug/L	0.013	116	59	108	51	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.006	245	45	40	34	KED
|	**Zn**	**66**	**-0.005**	ug/L	0.012	246	76	74	9	KED
|	**Zn**	**67**	**-0.054**	ug/L	0.070	128	17	12	55	KED
|	**As**	**75**	**0.014**	ug/L	0.012	83	2	7	49	KED
⌊	**Se**	**78**	**0.017**	ug/L	0.077	445	14	15	13	KED
	Y	**89**		ug/L			301489	301508	2	Standard
	Kr	**83**		ug/L			55	46	22	Standard
⌈>	**In-1**	**115**		ug/L			9770	9862	2	KED
|	**Mo**	**98**	**0.007**	ug/L	0.001	14	8	19	5	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.001	46	4	3	15	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.002	331	4	3	55	KED
⌈>	**In**	**115**		ug/L			485826	500016	2	Standard
|	**Ag**	**107**	**0.002**	ug/L	0.001	68	26	63	40	Standard
|	**Sb**	**121**	**0.046**	ug/L	0.001	1	201	956	1	Standard
|	**Sb**	**123**	**0.043**	ug/L	0.003	6	168	720	6	Standard
|	**Ba**	**135**	**-0.004**	ug/L	0.000	12	84	64	5	Standard
⌊	**Ba**	**137**	**-0.002**	ug/L	0.002	113	154	140	16	Standard
⌈>	**Tb**	**159**		ug/L			1205564	1205667	1	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.002	71	157	292	34	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	122	403	496	24	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 18:51:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25241	28184	2	Standard
	Cl	**37**		ug/L			5384034	5515602	2	Standard
⎡>	**Sc**	**45**		ug/L			495146	497022	2	Standard
⎢	**Cr**	**52**	**0.539**	ug/L	0.057	10	19255	29630	1	Standard
⎢	**Cr**	**53**	**0.525**	ug/L	0.016	3	166	1350	1	Standard
⎣	**Mn**	**55**	**0.561**	ug/L	0.013	2	514	16927	1	Standard
⎡>	**Ge**	**72**		ug/L			38398	39432	1	KED
⎢	**Ni**	**60**	**0.553**	ug/L	0.039	7	25	914	6	KED
⎢	**Ni**	**62**	**0.508**	ug/L	0.085	16	1	133	16	KED
⎢	**Cu**	**63**	**0.577**	ug/L	0.006	1	59	2671	2	KED
⎢	**Cu**	**65**	**0.569**	ug/L	0.014	2	45	1343	1	KED
⎢	**Zn**	**66**	**6.876**	ug/L	0.282	4	76	4098	3	KED
⎢	**Zn**	**67**	**6.010**	ug/L	0.356	5	17	606	4	KED
⎢	**As**	**75**	**0.200**	ug/L	0.004	2	2	65	3	KED
⎣	**Se**	**78**	**0.452**	ug/L	0.086	18	14	28	10	KED
	Y	**89**		ug/L			301489	298659	3	Standard
	Kr	**83**		ug/L			55	63	15	Standard
⎡>	**In-1**	**115**		ug/L			9770	9738	2	KED
⎢	**Mo**	**98**	**0.191**	ug/L	0.014	7	8	303	7	KED
⎢	**Cd**	**111**	**0.095**	ug/L	0.014	14	4	35	15	KED
⎣	**Cd**	**114**	**0.096**	ug/L	0.015	15	4	85	13	KED
⎡>	**In**	**115**		ug/L			485826	493674	3	Standard
⎢	**Ag**	**107**	**0.213**	ug/L	0.003	1	26	4187	2	Standard
⎢	**Sb**	**121**	**0.213**	ug/L	0.005	2	201	3587	2	Standard
⎢	**Sb**	**123**	**0.217**	ug/L	0.006	2	168	2883	1	Standard
⎢	**Ba**	**135**	**0.627**	ug/L	0.007	1	84	3797	2	Standard
⎣	**Ba**	**137**	**0.628**	ug/L	0.023	3	154	7021	2	Standard
⎡>	**Tb**	**159**		ug/L			1205564	1198167	0	Standard
⎢	**Tl**	**205**	**0.206**	ug/L	0.004	2	157	12862	2	Standard
⎣	**Pb**	**208**	**0.120**	ug/L	0.001	1	403	9998	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 18:56:27

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25241	117217	2	Standard
	Cl	37		ug/L			5384034	10906136	3	Standard
>	Sc	45		ug/L			495146	514166	1	Standard
	Cr	52	0.644	ug/L	0.013	2	19255	32749	2	Standard
	Cr	53	6.788	ug/L	0.221	3	166	16009	2	Standard
	Mn	55	0.165	ug/L	0.003	1	514	5514	1	Standard
>	Ge	72		ug/L			38398	38473	1	KED
	Ni	60	0.472	ug/L	0.562	119	25	774	116	KED
	Ni	62	0.193	ug/L	0.023	11	1	50	10	KED
	Cu	63	0.087	ug/L	0.006	7	59	445	5	KED
	Cu	65	0.089	ug/L	0.007	8	45	243	7	KED
	Zn	66	0.725	ug/L	0.007	0	76	490	2	KED
	Zn	67	0.591	ug/L	0.062	10	17	73	7	KED
	As	75	0.035	ug/L	0.006	16	2	13	12	KED
	Se	78	-0.113	ug/L	0.208	183	14	11	49	KED
	Y	89		ug/L			301489	318222	2	Standard
	Kr	83		ug/L			55	100	23	Standard
>	In-1	115		ug/L			9770	8999	3	KED
	Mo	98	408.052	ug/L	15.229	3	8	580913	0	KED
	Cd	111	0.094	ug/L	0.013	13	4	32	8	KED
	Cd	114	0.072	ug/L	0.016	21	4	60	16	KED
>	In	115		ug/L			485826	505355	1	Standard
	Ag	107	0.005	ug/L	0.001	13	26	135	9	Standard
	Sb	121	0.036	ug/L	0.004	11	201	796	6	Standard
	Sb	123	0.034	ug/L	0.001	3	168	607	2	Standard
	Ba	135	0.123	ug/L	0.007	6	84	834	3	Standard
	Ba	137	0.125	ug/L	0.001	0	154	1564	1	Standard
>	Tb	159		ug/L			1205564	1202347	1	Standard
	Tl	205	0.016	ug/L	0.001	6	157	1131	4	Standard
	Pb	208	0.043	ug/L	0.001	3	403	3819	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 19:01:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25241	115144	3	Standard
	Cl	**37**		ug/L			5384034	10776592	2	Standard
⌈>	**Sc**	**45**		ug/L			495146	500749	3	Standard
|	**Cr**	**52**	**19.641**	ug/L	0.555	2	19255	398353	2	Standard
|	**Cr**	**53**	**25.230**	ug/L	0.459	1	166	57479	1	Standard
⌊	**Mn**	**55**	**19.058**	ug/L	0.359	1	514	562066	1	Standard
⌈>	**Ge**	**72**		ug/L			38398	36690	0	KED
|	**Ni**	**60**	**21.222**	ug/L	0.428	2	25	31795	2	KED
|	**Ni**	**62**	**21.427**	ug/L	0.521	2	1	5179	2	KED
|	**Cu**	**63**	**20.947**	ug/L	0.474	2	59	88281	2	KED
|	**Cu**	**65**	**20.866**	ug/L	0.295	1	45	44346	1	KED
|	**Zn**	**66**	**20.181**	ug/L	0.510	2	76	11053	2	KED
|	**Zn**	**67**	**18.362**	ug/L	0.387	2	17	1690	2	KED
|	**As**	**75**	**19.815**	ug/L	0.125	0	2	5788	0	KED
⌊	**Se**	**78**	**-0.012**	ug/L	0.109	946	14	13	21	KED
	Y	**89**		ug/L			301489	318876	2	Standard
	Kr	**83**		ug/L			55	107	15	Standard
⌈>	**In-1**	**115**		ug/L			9770	8799	2	KED
|	**Mo**	**98**	**417.029**	ug/L	10.464	2	8	580792	1	KED
|	**Cd**	**111**	**19.752**	ug/L	0.366	1	4	5796	0	KED
⌊	**Cd**	**114**	**19.659**	ug/L	0.477	2	4	15131	1	KED
⌈>	**In**	**115**		ug/L			485826	505923	3	Standard
|	**Ag**	**107**	**17.649**	ug/L	0.271	1	26	353011	2	Standard
|	**Sb**	**121**	**0.029**	ug/L	0.001	5	201	679	5	Standard
|	**Sb**	**123**	**0.027**	ug/L	0.002	7	168	522	5	Standard
|	**Ba**	**135**	**0.107**	ug/L	0.011	10	84	734	7	Standard
⌊	**Ba**	**137**	**0.091**	ug/L	0.006	6	154	1181	5	Standard
⌈>	**Tb**	**159**		ug/L			1205564	1171741	2	Standard
|	**Tl**	**205**	**0.009**	ug/L	0.000	4	157	696	1	Standard
⌊	**Pb**	**208**	**0.020**	ug/L	0.001	6	403	1968	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 19:06:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25241	32058	3	Standard
	Cl	**37**		ug/L			5384034	5526356	3	Standard
⌈>	**Sc**	**45**		ug/L			495146	476950	1	Standard
|	**Cr**	**52**	**199.398**	ug/L	9.474	4	19255	3682094	3	Standard
|	**Cr**	**53**	**193.344**	ug/L	6.847	3	166	418606	3	Standard
⌊	**Mn**	**55**	**200.497**	ug/L	10.095	5	514	5627306	3	Standard
⌈>	**Ge**	**72**		ug/L			38398	35782	0	KED
|	**Ni**	**60**	**202.266**	ug/L	3.794	1	25	295297	1	KED
|	**Ni**	**62**	**205.894**	ug/L	2.831	1	1	48515	0	KED
|	**Cu**	**63**	**200.992**	ug/L	2.522	1	59	825557	0	KED
|	**Cu**	**65**	**203.917**	ug/L	1.665	0	45	422279	1	KED
|	**Zn**	**66**	**197.632**	ug/L	1.380	0	76	104933	0	KED
|	**Zn**	**67**	**197.688**	ug/L	5.022	2	17	17594	1	KED
|	**As**	**75**	**202.711**	ug/L	2.287	1	2	57727	0	KED
⌊	**Se**	**78**	**192.406**	ug/L	4.077	2	14	5089	1	KED
	Y	**89**		ug/L			301489	299298	2	Standard
	Kr	**83**		ug/L			55	104	6	Standard
⌈>	**In-1**	**115**		ug/L			9770	8342	1	KED
|	**Mo**	**98**	**221.077**	ug/L	6.264	2	8	291889	1	KED
|	**Cd**	**111**	**208.837**	ug/L	3.885	1	4	58070	0	KED
⌊	**Cd**	**114**	**205.171**	ug/L	3.276	1	4	149705	0	KED
⌈>	**In**	**115**		ug/L			485826	470408	1	Standard
|	**Ag**	**107**	**195.056**	ug/L	6.333	3	26	3626903	1	Standard
|	**Sb**	**121**	**208.448**	ug/L	3.041	1	201	3160503	0	Standard
|	**Sb**	**123**	**208.555**	ug/L	4.495	2	168	2490506	0	Standard
|	**Ba**	**135**	**198.965**	ug/L	2.280	1	84	1123149	1	Standard
⌊	**Ba**	**137**	**192.015**	ug/L	8.204	4	154	2001576	3	Standard
⌈>	**Tb**	**159**		ug/L			1205564	1099837	2	Standard
|	**Tl**	**205**	**221.368**	ug/L	4.014	1	157	12520957	1	Standard
⌊	**Pb**	**208**	**220.394**	ug/L	7.264	3	403	16116629	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 19:11:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25241	33515	2	Standard
	Cl	**37**		ug/L			5384034	5467445	2	Standard
>	**Sc**	**45**		ug/L			495146	470305	1	Standard
	Cr	**52**	**309.883**	ug/L	6.343	2	19255	5635951	3	Standard
	Cr	**53**	**298.477**	ug/L	0.838	0	166	637209	2	Standard
	Mn	**55**	**302.171**	ug/L	5.273	1	514	8367470	3	Standard
>	**Ge**	**72**		ug/L			38398	34565	0	KED
	Ni	**60**	**301.446**	ug/L	3.829	1	25	425163	1	KED
	Ni	**62**	**304.938**	ug/L	5.609	1	1	69413	1	KED
	Cu	**63**	**297.325**	ug/L	2.975	1	59	1179710	0	KED
	Cu	**65**	**296.409**	ug/L	2.939	0	45	592921	1	KED
	Zn	**66**	**289.061**	ug/L	3.308	1	76	148234	1	KED
	Zn	**67**	**286.457**	ug/L	7.130	2	17	24622	1	KED
	As	**75**	**305.135**	ug/L	4.414	1	2	83937	0	KED
	Se	**78**	**290.799**	ug/L	1.556	0	14	7423	0	KED
	Y	**89**		ug/L			301489	290622	4	Standard
	Kr	**83**		ug/L			55	246	22	Standard
>	**In-1**	**115**		ug/L			9770	8458	0	KED
	Mo	**98**	**318.874**	ug/L	3.022	0	8	427024	1	KED
	Cd	**111**	**296.252**	ug/L	2.038	0	4	83541	0	KED
	Cd	**114**	**293.773**	ug/L	2.050	0	4	217380	0	KED
>	**In**	**115**		ug/L			485826	451081	1	Standard
	Ag	**107**	**290.692**	ug/L	14.513	4	26	5182440	3	Standard
	Sb	**121**	**305.181**	ug/L	4.599	1	201	4436953	0	Standard
	Sb	**123**	**307.344**	ug/L	4.684	1	168	3519925	1	Standard
	Ba	**135**	**283.169**	ug/L	5.786	2	84	1532660	1	Standard
	Ba	**137**	**284.468**	ug/L	10.533	3	154	2843164	2	Standard
>	**Tb**	**159**		ug/L			1205564	1027172	3	Standard
	Tl	**205**	**344.783**	ug/L	17.413	5	157	18193384	1	Standard
	Pb	**208**	**341.295**	ug/L	9.850	2	403	23302481	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 19:18:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25241	29179	3	Standard
	Cl	**37**		ug/L			5384034	5562719	3	Standard
>	**Sc**	**45**		ug/L			495146	488426	1	Standard
	Cr	**52**	**-0.061**	ug/L	0.022	35	19255	17839	3	Standard
	Cr	**53**	**0.070**	ug/L	0.012	17	166	318	7	Standard
	Mn	**55**	**0.015**	ug/L	0.001	3	514	926	2	Standard
>	**Ge**	**72**		ug/L			38398	39004	1	KED
	Ni	**60**	**0.007**	ug/L	0.000	6	25	36	0	KED
	Ni	**62**	**0.057**	ug/L	0.046	80	1	16	69	KED
	Cu	**63**	**0.014**	ug/L	0.007	49	59	125	24	KED
	Cu	**65**	**0.012**	ug/L	0.006	49	45	72	18	KED
	Zn	**66**	**0.018**	ug/L	0.042	231	76	87	26	KED
	Zn	**67**	**0.036**	ug/L	0.016	44	17	20	9	KED
	As	**75**	**0.013**	ug/L	0.002	16	2	6	10	KED
	Se	**78**	**0.068**	ug/L	0.064	95	14	17	12	KED
	Y	**89**		ug/L			301489	296018	2	Standard
	Kr	**83**		ug/L			55	50	13	Standard
>	**In-1**	**115**		ug/L			9770	9501	1	KED
	Mo	**98**	**0.028**	ug/L	0.006	22	8	50	18	KED
	Cd	**111**	**0.007**	ug/L	0.003	41	4	6	14	KED
	Cd	**114**	**0.004**	ug/L	0.008	205	4	7	92	KED
>	**In**	**115**		ug/L			485826	501094	0	Standard
	Ag	**107**	**0.007**	ug/L	0.000	6	26	167	5	Standard
	Sb	**121**	**0.218**	ug/L	0.007	3	201	3735	2	Standard
	Sb	**123**	**0.206**	ug/L	0.001	0	168	2790	0	Standard
	Ba	**135**	**0.016**	ug/L	0.002	13	84	182	7	Standard
	Ba	**137**	**0.014**	ug/L	0.003	23	154	320	11	Standard
>	**Tb**	**159**		ug/L			1205564	1197164	2	Standard
	Tl	**205**	**0.017**	ug/L	0.001	5	157	1200	4	Standard
	Pb	**208**	**0.006**	ug/L	0.001	12	403	845	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 19:25:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25241	115956	3	Standard
	Cl	37		ug/L			5384034	10812775	3	Standard
>	Sc	45		ug/L			495146	503665	2	Standard
	Cr	52	0.584	ug/L	0.010	1	19255	30913	2	Standard
	Cr	53	5.854	ug/L	0.068	1	166	13545	1	Standard
	Mn	55	0.104	ug/L	0.003	2	514	3616	0	Standard
>	Ge	72		ug/L			38398	37252	0	KED
	Ni	60	0.122	ug/L	0.016	13	25	209	11	KED
	Ni	62	0.171	ug/L	0.009	5	1	43	4	KED
	Cu	63	0.044	ug/L	0.001	2	59	247	1	KED
	Cu	65	0.045	ug/L	0.004	9	45	140	5	KED
	Zn	66	0.274	ug/L	0.036	13	76	225	9	KED
	Zn	67	0.143	ug/L	0.097	68	17	29	29	KED
	As	75	0.035	ug/L	0.008	23	2	13	18	KED
	Se	78	-0.077	ug/L	0.011	14	14	12	2	KED
	Y	89		ug/L			301489	314104	3	Standard
	Kr	83		ug/L			55	116	7	Standard
>	In-1	115		ug/L			9770	8903	2	KED
	Mo	98	404.794	ug/L	14.755	3	8	570298	1	KED
	Cd	111	0.080	ug/L	0.016	19	4	27	15	KED
	Cd	114	0.073	ug/L	0.013	17	4	60	17	KED
>	In	115		ug/L			485826	497237	1	Standard
	Ag	107	0.006	ug/L	0.001	12	26	151	11	Standard
	Sb	121	0.101	ug/L	0.006	6	201	1821	6	Standard
	Sb	123	0.101	ug/L	0.006	6	168	1446	7	Standard
	Ba	135	0.107	ug/L	0.001	1	84	723	2	Standard
	Ba	137	0.102	ug/L	0.003	3	154	1280	3	Standard
>	Tb	159		ug/L			1205564	1182086	1	Standard
	Tl	205	0.021	ug/L	0.001	6	157	1408	4	Standard
	Pb	208	0.031	ug/L	0.001	4	403	2840	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 19:30:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25241	29638	1	Standard
	Cl	**37**		ug/L			5384034	5322644	2	Standard
⌈>	**Sc**	**45**		ug/L			495146	484991	1	Standard
|	**Cr**	**52**	**-0.082**	ug/L	0.036	44	19255	17325	3	Standard
|	**Cr**	**53**	**0.301**	ug/L	0.026	8	166	823	5	Standard
⌊	**Mn**	**55**	**0.012**	ug/L	0.001	5	514	833	1	Standard
⌈>	**Ge**	**72**		ug/L			38398	37291	0	KED
|	**Ni**	**60**	**0.007**	ug/L	0.007	102	25	34	30	KED
|	**Ni**	**62**	**0.013**	ug/L	0.009	69	1	5	43	KED
|	**Cu**	**63**	**0.012**	ug/L	0.004	32	59	109	15	KED
|	**Cu**	**65**	**0.004**	ug/L	0.008	218	45	51	32	KED
|	**Zn**	**66**	**0.022**	ug/L	0.009	42	76	86	7	KED
|	**Zn**	**67**	**-0.002**	ug/L	0.047	2926	17	16	26	KED
|	**As**	**75**	**0.002**	ug/L	0.002	74	2	3	15	KED
⌊	**Se**	**78**	**-0.062**	ug/L	0.045	73	14	12	9	KED
	Y	**89**		ug/L			301489	315351	1	Standard
	Kr	**83**		ug/L			55	40	16	Standard
⌈>	**In-1**	**115**		ug/L			9770	9347	1	KED
|	**Mo**	**98**	**0.029**	ug/L	0.003	11	8	50	9	KED
|	**Cd**	**111**	**0.005**	ug/L	0.005	109	4	5	28	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.005	139	4	6	57	KED
⌈>	**In**	**115**		ug/L			485826	526003	2	Standard
|	**Ag**	**107**	**0.002**	ug/L	0.000	23	26	62	11	Standard
|	**Sb**	**121**	**0.030**	ug/L	0.002	6	201	732	2	Standard
|	**Sb**	**123**	**0.028**	ug/L	0.004	15	168	555	11	Standard
|	**Ba**	**135**	**0.014**	ug/L	0.001	4	84	177	0	Standard
⌊	**Ba**	**137**	**0.018**	ug/L	0.002	10	154	382	3	Standard
⌈>	**Tb**	**159**		ug/L			1205564	1254159	1	Standard
|	**Tl**	**205**	**0.004**	ug/L	0.001	13	157	426	7	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	7	403	700	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 19:36:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25241	31949	2	Standard
	Cl	**37**		ug/L			5384034	5669079	2	Standard
⌈>	**Sc**	**45**		ug/L			495146	504016	1	Standard
|	**Cr**	**52**	**50.346**	ug/L	1.038	2	19255	997328	1	Standard
|	**Cr**	**53**	**48.759**	ug/L	1.682	3	166	111668	2	Standard
⌊	**Mn**	**55**	**50.238**	ug/L	2.012	4	514	1490592	2	Standard
⌈>	**Ge**	**72**		ug/L			38398	37407	2	KED
|	**Ni**	**60**	**52.185**	ug/L	1.165	2	25	79641	0	KED
|	**Ni**	**62**	**52.275**	ug/L	0.275	0	1	12878	2	KED
|	**Cu**	**63**	**52.362**	ug/L	0.885	1	59	224930	3	KED
|	**Cu**	**65**	**53.199**	ug/L	1.041	1	45	115169	1	KED
|	**Zn**	**66**	**52.581**	ug/L	0.052	0	76	29241	2	KED
|	**Zn**	**67**	**52.372**	ug/L	1.469	2	17	4885	3	KED
|	**As**	**75**	**50.066**	ug/L	1.083	2	2	14902	0	KED
⌊	**Se**	**78**	**50.071**	ug/L	1.140	2	14	1395	3	KED
	Y	**89**		ug/L			301489	312808	3	Standard
	Kr	**83**		ug/L			55	49	26	Standard
⌈>	**In-1**	**115**		ug/L			9770	9150	0	KED
|	**Mo**	**98**	**51.161**	ug/L	0.707	1	8	74122	1	KED
|	**Cd**	**111**	**51.529**	ug/L	0.315	0	4	15722	0	KED
⌊	**Cd**	**114**	**51.733**	ug/L	0.601	1	4	41413	0	KED
⌈>	**In**	**115**		ug/L			485826	507580	3	Standard
|	**Ag**	**107**	**48.661**	ug/L	1.964	4	26	975821	1	Standard
|	**Sb**	**121**	**50.197**	ug/L	0.563	1	201	821432	3	Standard
|	**Sb**	**123**	**49.924**	ug/L	1.190	2	168	643388	2	Standard
|	**Ba**	**135**	**51.523**	ug/L	1.013	1	84	313782	1	Standard
⌊	**Ba**	**137**	**50.673**	ug/L	1.261	2	154	570024	3	Standard
⌈>	**Tb**	**159**		ug/L			1205564	1244359	0	Standard
|	**Tl**	**205**	**53.195**	ug/L	0.839	1	157	3404710	0	Standard
⌊	**Pb**	**208**	**52.805**	ug/L	0.762	1	403	4370976	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 19:46:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25241	27375	1	Standard
	Cl	**37**		ug/L			5384034	5510959	2	Standard
⌈>	**Sc**	**45**		ug/L			495146	495143	1	Standard
|	**Cr**	**52**	**-0.109**	ug/L	0.030	27	19255	17179	2	Standard
|	**Cr**	**53**	**0.083**	ug/L	0.010	11	166	352	5	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.001	84	514	539	4	Standard
⌈>	**Ge**	**72**		ug/L			38398	38529	1	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.004	118	25	20	30	KED
|	**Ni**	**62**	**0.015**	ug/L	0.007	49	1	5	33	KED
|	**Cu**	**63**	**0.007**	ug/L	0.002	29	59	88	10	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.002	55	45	38	10	KED
|	**Zn**	**66**	**-0.009**	ug/L	0.018	197	76	71	13	KED
|	**Zn**	**67**	**-0.047**	ug/L	0.049	103	17	12	37	KED
|	**As**	**75**	**0.008**	ug/L	0.004	52	2	5	25	KED
⌊	**Se**	**78**	**-0.148**	ug/L	0.131	88	14	10	34	KED
	Y	**89**		ug/L			301489	304643	0	Standard
	Kr	**83**		ug/L			55	41	29	Standard
⌈>	**In-1**	**115**		ug/L			9770	9252	2	KED
|	**Mo**	**98**	**0.007**	ug/L	0.004	49	8	18	26	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.001	503	4	4	13	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.004	213	4	5	61	KED
⌈>	**In**	**115**		ug/L			485826	505701	1	Standard
|	**Ag**	**107**	**0.002**	ug/L	0.000	5	26	67	4	Standard
|	**Sb**	**121**	**0.060**	ug/L	0.005	8	201	1195	8	Standard
|	**Sb**	**123**	**0.057**	ug/L	0.006	11	168	901	8	Standard
|	**Ba**	**135**	**-0.001**	ug/L	0.001	110	84	81	7	Standard
⌊	**Ba**	**137**	**-0.001**	ug/L	0.001	61	154	147	3	Standard
⌈>	**Tb**	**159**		ug/L			1205564	1238341	1	Standard
|	**Tl**	**205**	**0.003**	ug/L	0.001	16	157	375	10	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	21	403	499	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0232-BLK2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 19:52:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25241	57786	3	Standard
	Cl	37		ug/L			5384034	5425428	4	Standard
>	Sc	45		ug/L			495146	509371	2	Standard
	Cr	52	0.082	ug/L	0.020	24	19255	21411	2	Standard
	Cr	53	0.190	ug/L	0.008	4	166	609	5	Standard
	Mn	55	0.055	ug/L	0.003	6	514	2168	6	Standard
>	Ge	72		ug/L			38398	38581	0	KED
	Ni	60	0.003	ug/L	0.006	204	25	30	33	KED
	Ni	62	0.022	ug/L	0.008	33	1	7	25	KED
	Cu	63	0.027	ug/L	0.002	7	59	178	4	KED
	Cu	65	0.023	ug/L	0.008	31	45	97	17	KED
	Zn	66	1.035	ug/L	0.047	4	76	668	3	KED
	Zn	67	0.886	ug/L	0.080	9	17	102	7	KED
	As	75	0.007	ug/L	0.009	124	2	5	54	KED
	Se	78	-0.076	ug/L	0.048	63	14	12	10	KED
	Y	89		ug/L			301489	314241	4	Standard
	Kr	83		ug/L			55	55	26	Standard
>	In-1	115		ug/L			9770	9604	0	KED
	Mo	98	0.021	ug/L	0.001	5	8	39	4	KED
	Cd	111	-0.007	ug/L	0.005	69	4	2	65	KED
	Cd	114	0.000	ug/L	0.001	3320	4	4	27	KED
>	In	115		ug/L			485826	515080	2	Standard
	Ag	107	0.001	ug/L	0.000	13	26	49	3	Standard
	Sb	121	0.030	ug/L	0.001	4	201	708	1	Standard
	Sb	123	0.029	ug/L	0.004	15	168	555	9	Standard
	Ba	135	0.033	ug/L	0.009	25	84	293	18	Standard
	Ba	137	0.041	ug/L	0.006	14	154	626	9	Standard
>	Tb	159		ug/L			1205564	1270390	3	Standard
	Tl	205	0.002	ug/L	0.000	22	157	291	7	Standard
	Pb	208	0.015	ug/L	0.000	0	403	1650	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0232-BS2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 19:57:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25241	59660	4	Standard
	Cl	37		ug/L			5384034	5573653	3	Standard
>	Sc	45		ug/L			495146	513251	1	Standard
	Cr	52	25.985	ug/L	0.194	0	19255	533882	0	Standard
	Cr	53	25.998	ug/L	0.278	1	166	60720	0	Standard
	Mn	55	25.938	ug/L	0.204	0	514	784178	1	Standard
>	Ge	72		ug/L			38398	38893	0	KED
	Ni	60	26.861	ug/L	0.324	1	25	42649	0	KED
	Ni	62	27.090	ug/L	0.180	0	1	6940	1	KED
	Cu	63	28.269	ug/L	0.280	0	59	126276	1	KED
	Cu	65	28.633	ug/L	0.683	2	45	64479	1	KED
	Zn	66	85.311	ug/L	1.818	2	76	49273	1	KED
	Zn	67	80.528	ug/L	2.040	2	17	7802	3	KED
	As	75	24.780	ug/L	0.462	1	2	7672	1	KED
	Se	78	76.032	ug/L	2.992	3	14	2195	3	KED
	Y	89		ug/L			301489	316803	2	Standard
	Kr	83		ug/L			55	63	6	Standard
>	In-1	115		ug/L			9770	9434	0	KED
	Mo	98	26.689	ug/L	0.434	1	8	39866	1	KED
	Cd	111	25.903	ug/L	0.416	1	4	8150	1	KED
	Cd	114	25.548	ug/L	0.422	1	4	21087	1	KED
>	In	115		ug/L			485826	522941	2	Standard
	Ag	107	25.463	ug/L	0.573	2	26	526410	0	Standard
	Sb	121	26.201	ug/L	0.542	2	201	441750	0	Standard
	Sb	123	26.153	ug/L	0.411	1	168	347368	1	Standard
	Ba	135	27.161	ug/L	0.677	2	84	170479	0	Standard
	Ba	137	26.481	ug/L	0.272	1	154	307056	1	Standard
>	Tb	159		ug/L			1205564	1250214	1	Standard
	Tl	205	27.054	ug/L	0.205	0	157	1739866	0	Standard
	Pb	208	27.476	ug/L	0.062	0	403	2285424	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0717-BLK2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 20:02:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25241	44781	0	Standard
	Cl	37		ug/L			5384034	5475261	3	Standard
>	Sc	45		ug/L			495146	506902	3	Standard
	Cr	52	0.011	ug/L	0.051	477	19255	19902	2	Standard
	Cr	53	0.100	ug/L	0.004	4	166	399	0	Standard
	Mn	55	0.041	ug/L	0.006	14	514	1742	13	Standard
>	Ge	72		ug/L			38398	39158	1	KED
	Ni	60	0.018	ug/L	0.006	34	25	53	16	KED
	Ni	62	0.027	ug/L	0.026	96	1	8	75	KED
	Cu	63	0.111	ug/L	0.016	14	59	557	12	KED
	Cu	65	0.088	ug/L	0.006	6	45	245	6	KED
	Zn	66	0.305	ug/L	0.046	15	76	254	10	KED
	Zn	67	0.225	ug/L	0.102	45	17	39	24	KED
	As	75	0.010	ug/L	0.010	108	2	5	53	KED
	Se	78	0.095	ug/L	0.152	160	14	17	23	KED
	Y	89		ug/L			301489	310458	2	Standard
	Kr	83		ug/L			55	60	13	Standard
>	In-1	115		ug/L			9770	9404	1	KED
	Mo	98	0.005	ug/L	0.003	50	8	16	24	KED
	Cd	111	-0.006	ug/L	0.008	138	4	2	94	KED
	Cd	114	0.000	ug/L	0.003	814	4	4	53	KED
>	In	115		ug/L			485826	506388	2	Standard
	Ag	107	0.007	ug/L	0.005	75	26	169	64	Standard
	Sb	121	0.014	ug/L	0.008	59	201	439	32	Standard
	Sb	123	0.013	ug/L	0.005	41	168	340	21	Standard
	Ba	135	0.050	ug/L	0.007	13	84	393	11	Standard
	Ba	137	0.051	ug/L	0.012	23	154	730	18	Standard
>	Tb	159		ug/L			1205564	1252426	1	Standard
	Tl	205	0.006	ug/L	0.007	116	157	565	83	Standard
	Pb	208	0.008	ug/L	0.008	90	403	1118	57	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0717-BS2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 20:07:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25241	45701	0	Standard
	Cl	**37**		ug/L			5384034	5779388	4	Standard
>	**Sc**	**45**		ug/L			495146	491400	6	Standard
	Cr	**52**	**27.063**	ug/L	1.695	6	19255	530142	1	Standard
	Cr	**53**	**26.776**	ug/L	0.913	3	166	59789	4	Standard
	Mn	**55**	**27.150**	ug/L	1.609	5	514	783860	2	Standard
>	**Ge**	**72**		ug/L			38398	38719	2	KED
	Ni	**60**	**26.149**	ug/L	0.220	0	25	41331	1	KED
	Ni	**62**	**26.716**	ug/L	0.879	3	1	6811	1	KED
	Cu	**63**	**26.679**	ug/L	0.806	3	59	118586	1	KED
	Cu	**65**	**26.585**	ug/L	0.617	2	45	59591	0	KED
	Zn	**66**	**84.866**	ug/L	2.531	2	76	48782	0	KED
	Zn	**67**	**80.119**	ug/L	1.356	1	17	7728	3	KED
	As	**75**	**25.432**	ug/L	0.807	3	2	7836	1	KED
	Se	**78**	**82.938**	ug/L	1.816	2	14	2381	0	KED
	Y	**89**		ug/L			301489	296406	9	Standard
	Kr	**83**		ug/L			55	58	4	Standard
>	**In-1**	**115**		ug/L			9770	9303	1	KED
	Mo	**98**	**0.090**	ug/L	0.017	18	8	141	19	KED
	Cd	**111**	**26.649**	ug/L	0.714	2	4	8266	1	KED
	Cd	**114**	**25.986**	ug/L	0.390	1	4	21149	1	KED
>	**In**	**115**		ug/L			485826	481349	7	Standard
	Ag	**107**	**25.966**	ug/L	1.421	5	26	492857	2	Standard
	Sb	**121**	**0.080**	ug/L	0.006	6	201	1430	3	Standard
	Sb	**123**	**0.073**	ug/L	0.005	7	168	1057	2	Standard
	Ba	**135**	**28.133**	ug/L	2.586	9	84	161810	1	Standard
	Ba	**137**	**28.122**	ug/L	2.332	8	154	298920	2	Standard
>	**Tb**	**159**		ug/L			1205564	1189858	6	Standard
	Tl	**205**	**27.657**	ug/L	2.006	7	157	1687530	0	Standard
	Pb	**208**	**27.887**	ug/L	1.978	7	403	2200813	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0576-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Thursday, April 27, 2023 20:12:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25241	110826	1	Standard
	Cl	**37**		ug/L			5384034	5746628	4	Standard
⌈>	**Sc**	**45**		ug/L			495146	516321	0	Standard
|	**Cr**	**52**	**7.451**	ug/L	0.062	0	19255	168335	1	Standard
|	**Cr**	**53**	**7.423**	ug/L	0.130	1	166	17567	2	Standard
⌊	**Mn**	**55**	**16.916**	ug/L	0.284	1	514	514663	1	Standard
⌈>	**Ge**	**72**		ug/L			38398	38259	0	KED
|	**Ni**	**60**	**1.793**	ug/L	0.064	3	25	2824	2	KED
|	**Ni**	**62**	**1.981**	ug/L	0.066	3	1	500	2	KED
|	**Cu**	**63**	**0.406**	ug/L	0.014	3	59	1842	2	KED
|	**Cu**	**65**	**0.422**	ug/L	0.025	5	45	977	4	KED
|	**Zn**	**66**	**10.463**	ug/L	0.127	1	76	6011	0	KED
|	**Zn**	**67**	**9.802**	ug/L	0.259	2	17	949	3	KED
|	**As**	**75**	**0.053**	ug/L	0.003	5	2	19	5	KED
⌊	**Se**	**78**	**0.023**	ug/L	0.102	439	14	15	18	KED
	Y	**89**		ug/L			301489	311589	0	Standard
	Kr	**83**		ug/L			55	59	20	Standard
⌈>	**In-1**	**115**		ug/L			9770	9266	2	KED
|	**Mo**	**98**	**0.458**	ug/L	0.043	9	8	678	7	KED
|	**Cd**	**111**	**0.211**	ug/L	0.016	7	4	69	9	KED
⌊	**Cd**	**114**	**0.213**	ug/L	0.029	13	4	176	13	KED
⌈>	**In**	**115**		ug/L			485826	515800	2	Standard
|	**Ag**	**107**	**0.025**	ug/L	0.004	13	26	546	14	Standard
|	**Sb**	**121**	**0.055**	ug/L	0.001	1	201	1122	2	Standard
|	**Sb**	**123**	**0.055**	ug/L	0.002	3	168	904	1	Standard
|	**Ba**	**135**	**2.478**	ug/L	0.126	5	84	15419	3	Standard
⌊	**Ba**	**137**	**2.403**	ug/L	0.102	4	154	27621	2	Standard
⌈>	**Tb**	**159**		ug/L			1205564	1281494	2	Standard
|	**Tl**	**205**	**0.007**	ug/L	0.005	73	157	631	54	Standard
⌊	**Pb**	**208**	**0.023**	ug/L	0.005	21	403	2382	17	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0673-01
Sample Dil Factor: 50
Comments:
Sample Date/Time: Thursday, April 27, 2023 20:19:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25241	60016	1	Standard
	Cl	**37**		ug/L			5384034	5661498	3	Standard
⌈>	**Sc**	**45**		ug/L			495146	549375	0	Standard
|	**Cr**	**52**	**9.338**	ug/L	0.273	2	19255	219042	2	Standard
|	**Cr**	**53**	**9.387**	ug/L	0.040	0	166	23586	0	Standard
⌊	**Mn**	**55**	**118.448**	ug/L	2.272	1	514	3830965	1	Standard
⌈>	**Ge**	**72**		ug/L			38398	38465	1	KED
|	**Ni**	**60**	**8.875**	ug/L	0.124	1	25	13953	0	KED
|	**Ni**	**62**	**8.763**	ug/L	0.169	1	1	2221	2	KED
|	**Cu**	**63**	**17.457**	ug/L	0.215	1	59	77137	1	KED
|	**Cu**	**65**	**17.659**	ug/L	0.228	1	45	39347	0	KED
|	**Zn**	**66**	**73.637**	ug/L	1.108	1	76	42073	0	KED
|	**Zn**	**67**	**69.322**	ug/L	3.272	4	17	6642	3	KED
|	**As**	**75**	**1.260**	ug/L	0.055	4	2	388	3	KED
⌊	**Se**	**78**	**0.177**	ug/L	0.072	40	14	20	11	KED
	Y	**89**		ug/L			301489	406780	2	Standard
	Kr	**83**		ug/L			55	88	31	Standard
⌈>	**In-1**	**115**		ug/L			9770	9460	2	KED
|	**Mo**	**98**	**0.492**	ug/L	0.016	3	8	744	2	KED
|	**Cd**	**111**	**0.072**	ug/L	0.014	19	4	26	15	KED
⌊	**Cd**	**114**	**0.081**	ug/L	0.021	26	4	71	27	KED
⌈>	**In**	**115**		ug/L			485826	516382	2	Standard
|	**Ag**	**107**	**0.034**	ug/L	0.003	7	26	728	7	Standard
|	**Sb**	**121**	**0.067**	ug/L	0.004	5	201	1332	7	Standard
|	**Sb**	**123**	**0.072**	ug/L	0.005	7	168	1120	4	Standard
|	**Ba**	**135**	**35.637**	ug/L	0.444	1	84	220885	1	Standard
⌊	**Ba**	**137**	**35.212**	ug/L	0.675	1	154	403127	2	Standard
⌈>	**Tb**	**159**		ug/L			1205564	1277177	0	Standard
|	**Tl**	**205**	**0.013**	ug/L	0.001	4	157	1038	4	Standard
⌊	**Pb**	**208**	**6.672**	ug/L	0.089	1	403	567227	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0658-02
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, April 27, 2023 20:23:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25241	34891	5	Standard
	Cl	37		ug/L			5384034	7838901	3	Standard
>	Sc	45		ug/L			495146	513300	0	Standard
	Cr	52	0.273	ug/L	0.023	8	19255	25368	1	Standard
	Cr	53	4.059	ug/L	0.014	0	166	9626	1	Standard
	Mn	55	0.024	ug/L	0.003	14	514	1261	7	Standard
>	Ge	72		ug/L			38398	34565	2	KED
	Ni	60	0.035	ug/L	0.001	2	25	72	2	KED
	Ni	62	0.065	ug/L	0.014	21	1	16	17	KED
	Cu	63	0.369	ug/L	0.016	4	59	1518	1	KED
	Cu	65	0.378	ug/L	0.041	10	45	796	10	KED
	Zn	66	0.132	ug/L	0.027	20	76	135	8	KED
	Zn	67	0.487	ug/L	0.107	22	17	57	14	KED
	As	75	28.267	ug/L	0.349	1	2	7777	1	KED
	Se	78	3.924	ug/L	0.103	2	14	113	4	KED
	Y	89		ug/L			301489	305094	4	Standard
	Kr	83		ug/L			55	78	13	Standard
>	In-1	115		ug/L			9770	8037	1	KED
	Mo	98	26.519	ug/L	0.601	2	8	33745	1	KED
	Cd	111	0.004	ug/L	0.006	147	4	4	34	KED
	Cd	114	0.004	ug/L	0.007	172	4	6	78	KED
>	In	115		ug/L			485826	473657	3	Standard
	Ag	107	0.002	ug/L	0.000	23	26	56	10	Standard
	Sb	121	0.191	ug/L	0.004	2	201	3112	1	Standard
	Sb	123	0.194	ug/L	0.008	4	168	2494	3	Standard
	Ba	135	4.643	ug/L	0.086	1	84	26464	1	Standard
	Ba	137	4.589	ug/L	0.109	2	154	48296	0	Standard
>	Tb	159		ug/L			1205564	1223329	2	Standard
	Tl	205	0.002	ug/L	0.000	16	157	254	7	Standard
	Pb	208	0.003	ug/L	0.001	26	403	649	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0658-04
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, April 27, 2023 20:29:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25241	32863	2	Standard
	Cl	37		ug/L			5384034	5440547	3	Standard
>	Sc	45		ug/L			495146	499635	1	Standard
	Cr	52	0.099	ug/L	0.029	29	19255	21335	3	Standard
	Cr	53	1.125	ug/L	0.041	3	166	2718	3	Standard
	Mn	55	0.065	ug/L	0.001	1	514	2431	2	Standard
>	Ge	72		ug/L			38398	36714	1	KED
	Ni	60	0.084	ug/L	0.010	11	25	150	10	KED
	Ni	62	0.135	ug/L	0.036	26	1	34	24	KED
	Cu	63	0.439	ug/L	0.013	2	59	1908	3	KED
	Cu	65	0.418	ug/L	0.022	5	45	931	4	KED
	Zn	66	0.241	ug/L	0.026	10	76	203	5	KED
	Zn	67	0.446	ug/L	0.129	28	17	57	21	KED
	As	75	39.752	ug/L	0.304	0	2	11617	0	KED
	Se	78	0.503	ug/L	0.143	28	14	27	14	KED
	Y	89		ug/L			301489	307791	1	Standard
	Kr	83		ug/L			55	74	14	Standard
>	In-1	115		ug/L			9770	8376	4	KED
	Mo	98	25.490	ug/L	1.069	4	8	33770	0	KED
	Cd	111	0.014	ug/L	0.007	49	4	7	21	KED
	Cd	114	0.008	ug/L	0.006	79	4	9	53	KED
>	In	115		ug/L			485826	505390	0	Standard
	Ag	107	-0.000	ug/L	0.000	199	26	24	25	Standard
	Sb	121	0.281	ug/L	0.008	2	201	4788	1	Standard
	Sb	123	0.285	ug/L	0.011	4	168	3835	4	Standard
	Ba	135	4.542	ug/L	0.141	3	84	27627	2	Standard
	Ba	137	4.487	ug/L	0.053	1	154	50410	0	Standard
>	Tb	159		ug/L			1205564	1234350	1	Standard
	Tl	205	0.001	ug/L	0.000	30	157	243	10	Standard
	Pb	208	0.004	ug/L	0.001	21	403	777	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0735-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Thursday, April 27, 2023 20:36:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25241	155722	2	Standard
	Cl	**37**		ug/L			5384034	10820494	6	Standard
>	**Sc**	**45**		ug/L			495146	511684	2	Standard
	Cr	**52**	**16.919**	ug/L	0.372	2	19255	353397	1	Standard
	Cr	**53**	**26.088**	ug/L	0.764	2	166	60719	1	Standard
	Mn	**55**	**82.393**	ug/L	2.169	2	514	2481485	1	Standard
>	**Ge**	**72**		ug/L			38398	34004	1	KED
	Ni	**60**	**19.619**	ug/L	0.631	3	25	27234	1	KED
	Ni	**62**	**19.779**	ug/L	0.714	3	1	4429	3	KED
	Cu	**63**	**3.077**	ug/L	0.065	2	59	12059	0	KED
	Cu	**65**	**3.026**	ug/L	0.052	1	45	5993	1	KED
	Zn	**66**	**9.923**	ug/L	0.633	6	76	5067	4	KED
	Zn	**67**	**15.203**	ug/L	0.421	2	17	1299	1	KED
	As	**75**	**8.066**	ug/L	0.221	2	2	2185	2	KED
	Se	**78**	**0.207**	ug/L	0.135	65	14	18	17	KED
	Y	**89**		ug/L			301489	298366	2	Standard
	Kr	**83**		ug/L			55	125	4	Standard
>	**In-1**	**115**		ug/L			9770	8007	1	KED
	Mo	**98**	**1.484**	ug/L	0.087	5	8	1887	4	KED
	Cd	**111**	**0.024**	ug/L	0.014	57	4	10	37	KED
	Cd	**114**	**0.011**	ug/L	0.015	135	4	11	94	KED
>	**In**	**115**		ug/L			485826	433195	2	Standard
	Ag	**107**	**0.035**	ug/L	0.005	13	26	618	10	Standard
	Sb	**121**	**0.702**	ug/L	0.025	3	201	9983	1	Standard
	Sb	**123**	**0.698**	ug/L	0.017	2	168	7823	0	Standard
	Ba	**135**	**91.442**	ug/L	0.967	1	84	475387	2	Standard
	Ba	**137**	**89.940**	ug/L	2.797	3	154	863211	1	Standard
>	**Tb**	**159**		ug/L			1205564	1161310	2	Standard
	Tl	**205**	**0.001**	ug/L	0.001	49	157	240	16	Standard
	Pb	**208**	**0.369**	ug/L	0.014	3	403	28881	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 20:41:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25241	30604	1	Standard
	Cl	**37**		ug/L			5384034	5599512	1	Standard
⌈>	**Sc**	**45**		ug/L			495146	491859	2	Standard
|	**Cr**	**52**	**-0.052**	ug/L	0.007	13	19255	18144	2	Standard
|	**Cr**	**53**	**0.388**	ug/L	0.005	1	166	1031	1	Standard
⌊	**Mn**	**55**	**0.049**	ug/L	0.010	19	514	1933	14	Standard
⌈>	**Ge**	**72**		ug/L			38398	37214	1	KED
|	**Ni**	**60**	**0.104**	ug/L	0.016	15	25	181	11	KED
|	**Ni**	**62**	**0.127**	ug/L	0.055	43	1	33	41	KED
|	**Cu**	**63**	**0.051**	ug/L	0.004	7	59	276	4	KED
|	**Cu**	**65**	**0.035**	ug/L	0.009	25	45	119	15	KED
|	**Zn**	**66**	**0.679**	ug/L	0.033	4	76	448	3	KED
|	**Zn**	**67**	**0.646**	ug/L	0.209	32	17	76	23	KED
|	**As**	**75**	**0.005**	ug/L	0.006	122	2	4	40	KED
⌊	**Se**	**78**	**-0.203**	ug/L	0.049	24	14	8	15	KED
	Y	**89**		ug/L			301489	302642	2	Standard
	Kr	**83**		ug/L			55	66	14	Standard
⌈>	**In-1**	**115**		ug/L			9770	9036	0	KED
|	**Mo**	**98**	**0.001**	ug/L	0.003	199	8	9	41	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.006	310	4	3	56	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.001	104	4	4	19	KED
⌈>	**In**	**115**		ug/L			485826	508408	0	Standard
|	**Ag**	**107**	**0.001**	ug/L	0.000	10	26	37	2	Standard
|	**Sb**	**121**	**-0.004**	ug/L	0.001	18	201	151	7	Standard
|	**Sb**	**123**	**-0.005**	ug/L	0.000	7	168	108	4	Standard
|	**Ba**	**135**	**0.036**	ug/L	0.011	30	84	306	21	Standard
⌊	**Ba**	**137**	**0.034**	ug/L	0.008	23	154	539	16	Standard
⌈>	**Tb**	**159**		ug/L			1205564	1215481	0	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	21	157	249	6	Standard
⌊	**Pb**	**208**	**0.023**	ug/L	0.001	3	403	2236	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 20:46:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25241	31272	4	Standard
	Cl	**37**		ug/L			5384034	5650453	3	Standard
⌈>	**Sc**	**45**		ug/L			495146	486643	1	Standard
|	**Cr**	**52**	**49.978**	ug/L	0.305	0	19255	956131	1	Standard
|	**Cr**	**53**	**49.737**	ug/L	0.357	0	166	109997	1	Standard
⌊	**Mn**	**55**	**50.378**	ug/L	0.844	1	514	1443758	2	Standard
⌈>	**Ge**	**72**		ug/L			38398	37519	1	KED
|	**Ni**	**60**	**51.117**	ug/L	1.365	2	25	78250	0	KED
|	**Ni**	**62**	**52.315**	ug/L	2.449	4	1	12920	2	KED
|	**Cu**	**63**	**51.869**	ug/L	1.324	2	59	223378	0	KED
|	**Cu**	**65**	**51.979**	ug/L	1.067	2	45	112872	1	KED
|	**Zn**	**66**	**51.949**	ug/L	0.463	0	76	28973	1	KED
|	**Zn**	**67**	**50.755**	ug/L	0.375	0	17	4749	1	KED
|	**As**	**75**	**49.479**	ug/L	1.345	2	2	14772	0	KED
⌊	**Se**	**78**	**49.965**	ug/L	1.428	2	14	1396	1	KED
	Y	**89**		ug/L			301489	297416	3	Standard
	Kr	**83**		ug/L			55	54	17	Standard
⌈>	**In-1**	**115**		ug/L			9770	8987	1	KED
|	**Mo**	**98**	**50.644**	ug/L	0.462	0	8	72059	0	KED
|	**Cd**	**111**	**51.138**	ug/L	1.069	2	4	15322	0	KED
⌊	**Cd**	**114**	**50.467**	ug/L	1.383	2	4	39670	1	KED
⌈>	**In**	**115**		ug/L			485826	488192	2	Standard
|	**Ag**	**107**	**49.111**	ug/L	1.568	3	26	947651	0	Standard
|	**Sb**	**121**	**51.393**	ug/L	0.927	1	201	808753	0	Standard
|	**Sb**	**123**	**50.896**	ug/L	0.583	1	168	630982	1	Standard
|	**Ba**	**135**	**52.098**	ug/L	1.074	2	84	305217	1	Standard
⌊	**Ba**	**137**	**51.937**	ug/L	1.250	2	154	561927	1	Standard
⌈>	**Tb**	**159**		ug/L			1205564	1233782	1	Standard
|	**Tl**	**205**	**53.067**	ug/L	1.159	2	157	3367237	0	Standard
⌊	**Pb**	**208**	**52.265**	ug/L	1.238	2	403	4288822	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 20:54:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25241	26785	2	Standard
	Cl	**37**		ug/L			5384034	5555097	2	Standard
⌈>	**Sc**	**45**		ug/L			495146	483282	1	Standard
|	**Cr**	**52**	**-0.091**	ug/L	0.014	15	19255	17100	2	Standard
|	**Cr**	**53**	**0.083**	ug/L	0.010	11	166	344	5	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.000	27	514	538	0	Standard
⌈>	**Ge**	**72**		ug/L			38398	38037	0	KED
|	**Ni**	**60**	**0.007**	ug/L	0.007	88	25	36	28	KED
|	**Ni**	**62**	**0.015**	ug/L	0.013	86	1	5	57	KED
|	**Cu**	**63**	**0.004**	ug/L	0.003	74	59	77	18	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.001	47	45	38	8	KED
|	**Zn**	**66**	**-0.040**	ug/L	0.005	12	76	52	5	KED
|	**Zn**	**67**	**-0.018**	ug/L	0.020	107	17	15	12	KED
|	**As**	**75**	**0.004**	ug/L	0.006	128	2	4	40	KED
⌊	**Se**	**78**	**0.010**	ug/L	0.014	134	14	15	3	KED
	Y	**89**		ug/L			301489	291604	3	Standard
	Kr	**83**		ug/L			55	53	25	Standard
⌈>	**In-1**	**115**		ug/L			9770	9273	1	KED
|	**Mo**	**98**	**0.009**	ug/L	0.004	43	8	21	28	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.005	121	4	2	57	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.002	119	4	5	34	KED
⌈>	**In**	**115**		ug/L			485826	496417	1	Standard
|	**Ag**	**107**	**0.002**	ug/L	0.000	21	26	60	13	Standard
|	**Sb**	**121**	**0.044**	ug/L	0.003	7	201	904	4	Standard
|	**Sb**	**123**	**0.039**	ug/L	0.003	6	168	660	4	Standard
|	**Ba**	**135**	**-0.001**	ug/L	0.001	65	84	78	5	Standard
⌊	**Ba**	**137**	**-0.000**	ug/L	0.001	384	154	153	8	Standard
⌈>	**Tb**	**159**		ug/L			1205564	1225241	1	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.001	39	157	247	15	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	30	403	467	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: C93-1 BOTTLE TEST
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Thursday, April 27, 2023 20:59:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25241	351889	2	Standard
	Cl	**37**		ug/L			5384034	9074198	1	Standard
⌈>	**Sc**	**45**		ug/L			495146	551416	2	Standard
|	**Cr**	**52**	**1.215**	ug/L	0.073	5	19255	47248	1	Standard
|	**Cr**	**53**	**7.978**	ug/L	0.261	3	166	20138	1	Standard
⌊	**Mn**	**55**	**204.984**	ug/L	3.652	1	514	6652535	0	Standard
⌈>	**Ge**	**72**		ug/L			38398	34874	0	KED
|	**Ni**	**60**	**2.221**	ug/L	0.100	4	25	3183	4	KED
|	**Ni**	**62**	**2.464**	ug/L	0.087	3	1	567	3	KED
|	**Cu**	**63**	**14.785**	ug/L	0.372	2	59	59241	2	KED
|	**Cu**	**65**	**15.019**	ug/L	0.172	1	45	30350	1	KED
|	**Zn**	**66**	**97.590**	ug/L	1.930	1	76	50536	1	KED
|	**Zn**	**67**	**89.938**	ug/L	3.909	4	17	7811	4	KED
|	**As**	**75**	**1.389**	ug/L	0.086	6	2	388	5	KED
⌊	**Se**	**78**	**0.086**	ug/L	0.029	34	14	15	4	KED
	Y	**89**		ug/L			301489	291838	2	Standard
	Kr	**83**		ug/L			55	137	2	Standard
⌈>	**In-1**	**115**		ug/L			9770	8381	0	KED
|	**Mo**	**98**	**3.782**	ug/L	0.100	2	8	5025	2	KED
|	**Cd**	**111**	**0.136**	ug/L	0.042	30	4	41	27	KED
⌊	**Cd**	**114**	**0.123**	ug/L	0.015	12	4	93	11	KED
⌈>	**In**	**115**		ug/L			485826	450271	1	Standard
|	**Ag**	**107**	**0.008**	ug/L	0.001	9	26	166	7	Standard
|	**Sb**	**121**	**0.557**	ug/L	0.017	3	201	8267	3	Standard
|	**Sb**	**123**	**0.557**	ug/L	0.018	3	168	6527	4	Standard
|	**Ba**	**135**	**21.980**	ug/L	0.342	1	84	118830	0	Standard
⌊	**Ba**	**137**	**22.108**	ug/L	0.206	0	154	220768	1	Standard
⌈>	**Tb**	**159**		ug/L			1205564	1156043	1	Standard
|	**Tl**	**205**	**0.012**	ug/L	0.001	4	157	864	3	Standard
⌊	**Pb**	**208**	**0.864**	ug/L	0.017	1	403	66794	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: C93-2 BOTTLE TEST
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Thursday, April 27, 2023 21:05:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25241	474407	2	Standard
	Cl	**37**		ug/L			5384034	7854616	4	Standard
⌈>	**Sc**	**45**		ug/L			495146	519223	2	Standard
|	**Cr**	**52**	**1.451**	ug/L	0.025	1	19255	49223	1	Standard
|	**Cr**	**53**	**4.317**	ug/L	0.130	3	166	10343	1	Standard
⌊	**Mn**	**55**	**161.943**	ug/L	2.508	1	514	4949352	0	Standard
⌈>	**Ge**	**72**		ug/L			38398	34657	1	KED
|	**Ni**	**60**	**1.916**	ug/L	0.010	0	25	2732	1	KED
|	**Ni**	**62**	**1.866**	ug/L	0.140	7	1	427	6	KED
|	**Cu**	**63**	**7.831**	ug/L	0.091	1	59	31206	1	KED
|	**Cu**	**65**	**7.923**	ug/L	0.212	2	45	15925	2	KED
|	**Zn**	**66**	**144.870**	ug/L	3.553	2	76	74496	0	KED
|	**Zn**	**67**	**133.867**	ug/L	0.846	0	17	11546	2	KED
|	**As**	**75**	**2.580**	ug/L	0.094	3	2	713	1	KED
⌊	**Se**	**78**	**0.026**	ug/L	0.029	114	14	14	3	KED
	Y	**89**		ug/L			301489	284463	4	Standard
	Kr	**83**		ug/L			55	69	20	Standard
⌈>	**In-1**	**115**		ug/L			9770	8132	6	KED
|	**Mo**	**98**	**4.919**	ug/L	0.250	5	8	6326	1	KED
|	**Cd**	**111**	**0.088**	ug/L	0.015	16	4	27	19	KED
⌊	**Cd**	**114**	**0.073**	ug/L	0.012	16	4	55	19	KED
⌈>	**In**	**115**		ug/L			485826	456807	2	Standard
|	**Ag**	**107**	**0.002**	ug/L	0.000	16	26	54	7	Standard
|	**Sb**	**121**	**0.141**	ug/L	0.002	1	201	2266	2	Standard
|	**Sb**	**123**	**0.138**	ug/L	0.003	1	168	1756	3	Standard
|	**Ba**	**135**	**21.576**	ug/L	0.296	1	84	118336	1	Standard
⌊	**Ba**	**137**	**21.151**	ug/L	0.024	0	154	214274	1	Standard
⌈>	**Tb**	**159**		ug/L			1205564	1130525	2	Standard
|	**Tl**	**205**	**0.005**	ug/L	0.000	3	157	455	4	Standard
⌊	**Pb**	**208**	**0.591**	ug/L	0.017	2	403	44833	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0678-08
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Thursday, April 27, 2023 21:11:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25241	78906	1	Standard
	Cl	37		ug/L			5384034	6540716	3	Standard
>	Sc	45		ug/L			495146	577486	2	Standard
	Cr	52	0.416	ug/L	0.049	11	19255	31696	2	Standard
	Cr	53	1.229	ug/L	0.034	2	166	3415	3	Standard
	Mn	55	474.840	ug/L	11.606	2	514	16138128	1	Standard
>	Ge	72		ug/L			38398	34112	0	KED
	Ni	60	0.966	ug/L	0.020	2	25	1367	2	KED
	Ni	62	1.007	ug/L	0.119	11	1	227	11	KED
	Cu	63	0.542	ug/L	0.024	4	59	2176	4	KED
	Cu	65	0.553	ug/L	0.029	5	45	1130	4	KED
	Zn	66	4.426	ug/L	0.131	2	76	2306	3	KED
	Zn	67	8.073	ug/L	0.386	4	17	699	4	KED
	As	75	0.728	ug/L	0.051	7	2	200	7	KED
	Se	78	0.114	ug/L	0.113	99	14	16	17	KED
	Y	89		ug/L			301489	284873	1	Standard
	Kr	83		ug/L			55	85	3	Standard
>	In-1	115		ug/L			9770	8314	3	KED
	Mo	98	0.282	ug/L	0.031	10	8	378	10	KED
	Cd	111	0.016	ug/L	0.010	60	4	8	35	KED
	Cd	114	0.017	ug/L	0.005	31	4	16	25	KED
>	In	115		ug/L			485826	446101	1	Standard
	Ag	107	0.002	ug/L	0.001	41	26	67	25	Standard
	Sb	121	0.153	ug/L	0.002	1	201	2383	1	Standard
	Sb	123	0.155	ug/L	0.009	5	168	1910	4	Standard
	Ba	135	61.850	ug/L	1.197	1	84	331232	3	Standard
	Ba	137	60.491	ug/L	0.883	1	154	598132	0	Standard
>	Tb	159		ug/L			1205564	1133365	1	Standard
	Tl	205	0.002	ug/L	0.000	4	157	245	3	Standard
	Pb	208	0.345	ug/L	0.010	2	403	26402	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0678-09
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Thursday, April 27, 2023 21:16:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25241	64134	2	Standard
	Cl	37		ug/L			5384034	6449073	3	Standard
>	Sc	45		ug/L			495146	582936	2	Standard
	Cr	52	0.252	ug/L	0.020	7	19255	28325	1	Standard
	Cr	53	1.072	ug/L	0.030	2	166	3029	2	Standard
	Mn	55	480.064	ug/L	19.130	3	514	16462516	1	Standard
>	Ge	72		ug/L			38398	33232	0	KED
	Ni	60	0.934	ug/L	0.018	1	25	1288	1	KED
	Ni	62	0.999	ug/L	0.072	7	1	220	7	KED
	Cu	63	0.427	ug/L	0.024	5	59	1682	5	KED
	Cu	65	0.423	ug/L	0.013	3	45	852	3	KED
	Zn	66	1.930	ug/L	0.144	7	76	1017	6	KED
	Zn	67	5.546	ug/L	0.413	7	17	473	7	KED
	As	75	0.538	ug/L	0.026	4	2	144	4	KED
	Se	78	0.242	ug/L	0.067	27	14	18	8	KED
	Y	89		ug/L			301489	285940	2	Standard
	Kr	83		ug/L			55	93	14	Standard
>	In-1	115		ug/L			9770	8148	0	KED
	Mo	98	0.142	ug/L	0.012	8	8	189	7	KED
	Cd	111	0.004	ug/L	0.009	239	4	4	52	KED
	Cd	114	0.004	ug/L	0.007	184	4	6	80	KED
>	In	115		ug/L			485826	443663	2	Standard
	Ag	107	0.001	ug/L	0.001	46	26	48	21	Standard
	Sb	121	0.183	ug/L	0.005	2	201	2803	3	Standard
	Sb	123	0.180	ug/L	0.009	5	168	2184	2	Standard
	Ba	135	62.916	ug/L	2.476	3	84	334906	2	Standard
	Ba	137	61.480	ug/L	1.384	2	154	604474	1	Standard
>	Tb	159		ug/L			1205564	1150068	1	Standard
	Tl	205	0.000	ug/L	0.000	56	157	168	5	Standard
	Pb	208	0.040	ug/L	0.001	3	403	3430	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0732-01
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Thursday, April 27, 2023 21:21:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25241	52021	3	Standard
	Cl	**37**		ug/L			5384034	5041203	3	Standard
⌈>	**Sc**	**45**		ug/L			495146	457653	0	Standard
|	**Cr**	**52**	**0.351**	ug/L	0.032	9	19255	23980	1	Standard
|	**Cr**	**53**	**1.018**	ug/L	0.052	5	166	2268	5	Standard
⌊	**Mn**	**55**	**10.412**	ug/L	0.311	2	514	280953	2	Standard
⌈>	**Ge**	**72**		ug/L			38398	31030	0	KED
|	**Ni**	**60**	**0.749**	ug/L	0.041	5	25	968	4	KED
|	**Ni**	**62**	**0.803**	ug/L	0.016	2	1	165	1	KED
|	**Cu**	**63**	**1.321**	ug/L	0.028	2	59	4754	2	KED
|	**Cu**	**65**	**1.270**	ug/L	0.012	0	45	2317	0	KED
|	**Zn**	**66**	**2.113**	ug/L	0.047	2	76	1033	2	KED
|	**Zn**	**67**	**2.166**	ug/L	0.143	6	17	180	6	KED
|	**As**	**75**	**1.494**	ug/L	0.099	6	2	371	6	KED
⌊	**Se**	**78**	**0.567**	ug/L	0.161	28	14	25	14	KED
	Y	**89**		ug/L			301489	277800	2	Standard
	Kr	**83**		ug/L			55	64	22	Standard
⌈>	**In-1**	**115**		ug/L			9770	7568	1	KED
|	**Mo**	**98**	**11.782**	ug/L	0.098	0	8	14122	0	KED
|	**Cd**	**111**	**0.048**	ug/L	0.017	36	4	15	30	KED
⌊	**Cd**	**114**	**0.015**	ug/L	0.006	39	4	13	31	KED
⌈>	**In**	**115**		ug/L			485826	425662	3	Standard
|	**Ag**	**107**	**0.003**	ug/L	0.001	25	26	65	13	Standard
|	**Sb**	**121**	**0.765**	ug/L	0.023	2	201	10667	1	Standard
|	**Sb**	**123**	**0.757**	ug/L	0.032	4	168	8323	0	Standard
|	**Ba**	**135**	**8.079**	ug/L	0.245	3	84	41309	0	Standard
⌊	**Ba**	**137**	**8.021**	ug/L	0.213	2	154	75755	1	Standard
⌈>	**Tb**	**159**		ug/L			1205564	1137020	1	Standard
|	**Tl**	**205**	**0.062**	ug/L	0.001	1	157	3771	0	Standard
⌊	**Pb**	**208**	**0.177**	ug/L	0.004	2	403	13727	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0741-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 21:26:01

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			25241	62364	3	Standard
Cl	37		ug/L			5384034	7903423	4	Standard
> Sc	45		ug/L			495146	628786	2	Standard
Cr	52	**0.502**	ug/L	0.023	4	19255	36617	2	Standard
Cr	53	**1.880**	ug/L	0.034	1	166	5576	2	Standard
Mn	55	**2186.464**	ug/L	24.559	1	514	80937426	2	Standard
> Ge	72		ug/L			38398	30558	0	KED
Ni	60	**1.127**	ug/L	0.021	1	25	1425	1	KED
Ni	62	**1.078**	ug/L	0.172	15	1	218	15	KED
Cu	63	**0.514**	ug/L	0.024	4	59	1850	4	KED
Cu	65	**0.514**	ug/L	0.017	3	45	944	2	KED
Zn	66	**1.528**	ug/L	0.063	4	76	753	3	KED
Zn	67	**7.086**	ug/L	0.611	8	17	551	8	KED
As	75	**1.173**	ug/L	0.041	3	2	287	3	KED
Se	78	**0.125**	ug/L	0.097	77	14	14	15	KED
Y	89		ug/L			301489	281292	2	Standard
Kr	83		ug/L			55	121	11	Standard
> In-1	115		ug/L			9770	7420	3	KED
Mo	98	**0.111**	ug/L	0.027	23	8	136	18	KED
Cd	111	**0.008**	ug/L	0.010	117	4	5	44	KED
Cd	114	**0.000**	ug/L	0.005	1867	4	3	92	KED
> In	115		ug/L			485826	419710	1	Standard
Ag	107	**0.003**	ug/L	0.001	24	26	76	17	Standard
Sb	121	**0.098**	ug/L	0.002	1	201	1504	1	Standard
Sb	123	**0.099**	ug/L	0.010	10	168	1200	9	Standard
Ba	135	**97.879**	ug/L	0.358	0	84	493076	1	Standard
Ba	137	**95.010**	ug/L	2.406	2	154	883675	1	Standard
> Tb	159		ug/L			1205564	1044391	0	Standard
Tl	205	**-0.000**	ug/L	0.000	201	157	133	3	Standard
Pb	208	**0.422**	ug/L	0.003	0	403	29678	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0699-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 21:31:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			25241	76887	2	Standard
	Cl	37		ug/L			5384034	4983068	3	Standard
>	Sc	45		ug/L			495146	446271	1	Standard
	Cr	52	1.099	ug/L	0.030	2	19255	36248	1	Standard
	Cr	53	1.500	ug/L	0.023	1	166	3188	2	Standard
	Mn	55	1.266	ug/L	0.013	1	514	33711	0	Standard
>	Ge	72		ug/L			38398	33314	1	KED
	Ni	60	0.274	ug/L	0.010	3	25	394	3	KED
	Ni	62	0.374	ug/L	0.045	12	1	83	12	KED
	Cu	63	14.923	ug/L	0.102	0	59	57115	0	KED
	Cu	65	14.922	ug/L	0.358	2	45	28799	1	KED
	Zn	66	4.876	ug/L	0.143	2	76	2474	1	KED
	Zn	67	4.358	ug/L	0.342	7	17	375	8	KED
	As	75	0.070	ug/L	0.015	21	2	21	19	KED
	Se	78	0.190	ug/L	0.068	36	14	17	10	KED
	Y	89		ug/L			301489	287922	2	Standard
	Kr	83		ug/L			55	59	5	Standard
>	In-1	115		ug/L			9770	7735	2	KED
	Mo	98	0.677	ug/L	0.030	4	8	835	2	KED
	Cd	111	0.006	ug/L	0.015	251	4	5	78	KED
	Cd	114	-0.001	ug/L	0.003	341	4	2	78	KED
>	In	115		ug/L			485826	451288	2	Standard
	Ag	107	0.003	ug/L	0.000	7	26	80	7	Standard
	Sb	121	0.070	ug/L	0.003	4	201	1201	4	Standard
	Sb	123	0.072	ug/L	0.007	10	168	981	9	Standard
	Ba	135	0.291	ug/L	0.003	0	84	1655	2	Standard
	Ba	137	0.274	ug/L	0.008	2	154	2882	0	Standard
>	Tb	159		ug/L			1205564	1197191	1	Standard
	Tl	205	0.002	ug/L	0.000	26	157	256	11	Standard
	Pb	208	0.019	ug/L	0.000	1	403	1941	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 21:36:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25241	30014	5	Standard
	Cl	**37**		ug/L			5384034	5191007	3	Standard
⌈>	**Sc**	**45**		ug/L			495146	457811	2	Standard
|	**Cr**	**52**	**-0.127**	ug/L	0.029	22	19255	15557	2	Standard
|	**Cr**	**53**	**0.068**	ug/L	0.015	22	166	295	12	Standard
⌊	**Mn**	**55**	**0.055**	ug/L	0.003	5	514	1960	2	Standard
⌈>	**Ge**	**72**		ug/L			38398	35634	3	KED
|	**Ni**	**60**	**0.119**	ug/L	0.010	8	25	196	6	KED
|	**Ni**	**62**	**0.158**	ug/L	0.018	11	1	38	7	KED
|	**Cu**	**63**	**0.054**	ug/L	0.003	6	59	277	6	KED
|	**Cu**	**65**	**0.043**	ug/L	0.004	8	45	130	3	KED
|	**Zn**	**66**	**0.683**	ug/L	0.030	4	76	431	3	KED
|	**Zn**	**67**	**0.751**	ug/L	0.149	19	17	82	17	KED
|	**As**	**75**	**0.006**	ug/L	0.005	80	2	4	32	KED
⌊	**Se**	**78**	**-0.057**	ug/L	0.060	105	14	12	12	KED
	Y	**89**		ug/L			301489	286127	2	Standard
	Kr	**83**		ug/L			55	71	14	Standard
⌈>	**In-1**	**115**		ug/L			9770	8359	3	KED
|	**Mo**	**98**	**-0.001**	ug/L	0.004	312	8	5	83	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.007	666	4	3	56	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.004	250	4	4	63	KED
⌈>	**In**	**115**		ug/L			485826	486807	4	Standard
|	**Ag**	**107**	**0.001**	ug/L	0.001	162	26	41	58	Standard
|	**Sb**	**121**	**-0.006**	ug/L	0.001	20	201	104	19	Standard
|	**Sb**	**123**	**-0.007**	ug/L	0.001	14	168	84	11	Standard
|	**Ba**	**135**	**0.026**	ug/L	0.003	12	84	236	9	Standard
⌊	**Ba**	**137**	**0.029**	ug/L	0.001	4	154	465	3	Standard
⌈>	**Tb**	**159**		ug/L			1205564	1213468	1	Standard
|	**Tl**	**205**	**-0.000**	ug/L	0.000	217	157	146	19	Standard
⌊	**Pb**	**208**	**0.023**	ug/L	0.001	4	403	2245	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 21:42:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25241	30473	3	Standard
	Cl	**37**		ug/L			5384034	5289537	3	Standard
⌈>	**Sc**	**45**		ug/L			495146	471381	1	Standard
|	**Cr**	**52**	**47.744**	ug/L	1.037	2	19255	885798	3	Standard
|	**Cr**	**53**	**48.007**	ug/L	0.803	1	166	102859	2	Standard
⌊	**Mn**	**55**	**48.011**	ug/L	0.707	1	514	1332797	2	Standard
⌈>	**Ge**	**72**		ug/L			38398	36242	0	KED
|	**Ni**	**60**	**51.925**	ug/L	0.689	1	25	76805	0	KED
|	**Ni**	**62**	**51.321**	ug/L	1.475	2	1	12250	2	KED
|	**Cu**	**63**	**51.736**	ug/L	0.466	0	59	215293	1	KED
|	**Cu**	**65**	**52.335**	ug/L	0.450	0	45	109796	0	KED
|	**Zn**	**66**	**52.285**	ug/L	1.121	2	76	28172	2	KED
|	**Zn**	**67**	**52.201**	ug/L	1.841	3	17	4718	3	KED
|	**As**	**75**	**50.553**	ug/L	0.141	0	2	14584	0	KED
⌊	**Se**	**78**	**49.083**	ug/L	1.150	2	14	1325	1	KED
	Y	**89**		ug/L			301489	288619	1	Standard
	Kr	**83**		ug/L			55	71	20	Standard
⌈>	**In-1**	**115**		ug/L			9770	8451	1	KED
|	**Mo**	**98**	**52.312**	ug/L	1.773	3	8	69978	1	KED
|	**Cd**	**111**	**52.897**	ug/L	1.496	2	4	14903	1	KED
⌊	**Cd**	**114**	**51.829**	ug/L	1.814	3	4	38310	2	KED
⌈>	**In**	**115**		ug/L			485826	486068	1	Standard
|	**Ag**	**107**	**47.228**	ug/L	0.750	1	26	907680	0	Standard
|	**Sb**	**121**	**50.907**	ug/L	0.430	0	201	797776	0	Standard
|	**Sb**	**123**	**51.107**	ug/L	0.250	0	168	630949	1	Standard
|	**Ba**	**135**	**51.666**	ug/L	1.281	2	84	301395	1	Standard
⌊	**Ba**	**137**	**51.098**	ug/L	0.810	1	154	550666	2	Standard
⌈>	**Tb**	**159**		ug/L			1205564	1206401	1	Standard
|	**Tl**	**205**	**55.612**	ug/L	0.787	1	157	3451516	2	Standard
⌊	**Pb**	**208**	**54.940**	ug/L	0.762	1	403	4408829	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 21:49:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			25241	28200	1	Standard
	Cl	**37**		ug/L			5384034	5295136	2	Standard
⌈>	**Sc**	**45**		ug/L			495146	458783	2	Standard
|	**Cr**	**52**	**-0.110**	ug/L	0.010	9	19255	15901	1	Standard
|	**Cr**	**53**	**0.015**	ug/L	0.005	34	166	184	3	Standard
⌊	**Mn**	**55**	**0.011**	ug/L	0.001	11	514	762	2	Standard
⌈>	**Ge**	**72**		ug/L			38398	36593	2	KED
|	**Ni**	**60**	**0.040**	ug/L	0.004	11	25	84	9	KED
|	**Ni**	**62**	**0.051**	ug/L	0.033	65	1	13	55	KED
|	**Cu**	**63**	**0.003**	ug/L	0.001	33	59	70	4	KED
|	**Cu**	**65**	**-0.000**	ug/L	0.001	407	45	42	5	KED
|	**Zn**	**66**	**-0.014**	ug/L	0.015	106	76	64	10	KED
|	**Zn**	**67**	**-0.040**	ug/L	0.029	72	17	12	22	KED
|	**As**	**75**	**0.008**	ug/L	0.009	108	2	5	51	KED
⌊	**Se**	**78**	**-0.028**	ug/L	0.084	303	14	13	19	KED
	Y	**89**		ug/L			301489	288022	3	Standard
	Kr	**83**		ug/L			55	74	10	Standard
⌈>	**In-1**	**115**		ug/L			9770	8928	2	KED
|	**Mo**	**98**	**0.008**	ug/L	0.008	93	8	19	54	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.000	38	4	3	0	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	286	4	4	58	KED
⌈>	**In**	**115**		ug/L			485826	482240	1	Standard
|	**Ag**	**107**	**0.001**	ug/L	0.000	14	26	48	8	Standard
|	**Sb**	**121**	**0.041**	ug/L	0.001	2	201	837	0	Standard
|	**Sb**	**123**	**0.042**	ug/L	0.002	4	168	685	3	Standard
|	**Ba**	**135**	**0.002**	ug/L	0.002	135	84	93	12	Standard
⌊	**Ba**	**137**	**0.001**	ug/L	0.001	78	154	160	3	Standard
⌈>	**Tb**	**159**		ug/L			1205564	1201037	2	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	33	157	241	10	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.001	60	403	544	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 22:05:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				26020	0	Standard
	Cl	**37**		ug/L				5354462	1	Standard
⌈>	**Sc**	**45**		ug/L				474891	0	Standard
|	**Cr**	**52**		ug/L				16718	3	Standard
⌊	**Cr**	**53**		ug/L				209	3	Standard
⌈>	**Ge**	**72**		ug/L				34387	7	KED
|	**Ni**	**60**		ug/L				146	16	KED
|	**Ni**	**62**		ug/L				34	24	KED
|	**Cu**	**63**		ug/L				114	3	KED
|	**Cu**	**65**		ug/L				56	5	KED
|	**Zn**	**66**		ug/L				76	25	KED
|	**Zn**	**67**		ug/L				13	34	KED
⌊	**As**	**75**		ug/L				6	11	KED
	Y	**89**		ug/L				289124	1	Standard
	Kr	**83**		ug/L				80	14	Standard
⌈>	**In-1**	**115**		ug/L				9102	0	KED
|	**Cd**	**111**		ug/L				3	68	KED
⌊	**Cd**	**114**		ug/L				3	76	KED
⌈>	**In**	**115**		ug/L				483935	2	Standard
⌊	**Ag**	**107**		ug/L				106	17	Standard
⌈>	**Tb**	**159**		ug/L				1215870	1	Standard
⌊	**Pb**	**208**		ug/L				593	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 22:09:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26020	31248	0	Standard
	Cl	**37**		ug/L			5354462	5583700	2	Standard
⌈>	**Sc**	**45**		ug/L			474891	488894	1	Standard
|	**Cr**	**52**	**49.777**	ug/L	1.546	3	16718	954685	1	Standard
⌊	**Cr**	**53**	**49.292**	ug/L	0.800	1	209	109555	0	Standard
⌈>	**Ge**	**72**		ug/L			34387	37126	0	KED
|	**Ni**	**60**	**51.468**	ug/L	0.217	0	146	78119	0	KED
|	**Ni**	**62**	**50.924**	ug/L	0.950	1	34	12488	2	KED
|	**Cu**	**63**	**50.950**	ug/L	0.682	1	114	217244	1	KED
|	**Cu**	**65**	**51.166**	ug/L	0.194	0	56	109984	1	KED
|	**Zn**	**66**	**51.097**	ug/L	0.624	1	76	28213	1	KED
|	**Zn**	**67**	**51.231**	ug/L	1.534	2	13	4743	3	KED
⌊	**As**	**75**	**49.924**	ug/L	0.532	1	6	14757	0	KED
	Y	**89**		ug/L			289124	286806	0	Standard
	Kr	**83**		ug/L			80	56	19	Standard
⌈>	**In-1**	**115**		ug/L			9102	8510	1	KED
|	**Cd**	**111**	**52.471**	ug/L	1.586	3	3	14884	1	KED
⌊	**Cd**	**114**	**52.452**	ug/L	1.552	2	3	39038	1	KED
⌈>	**In**	**115**		ug/L			483935	488072	2	Standard
⌊	**Ag**	**107**	**48.040**	ug/L	1.494	3	106	926830	0	Standard
⌈>	**Tb**	**159**		ug/L			1215870	1222863	0	Standard
⌊	**Pb**	**208**	**53.075**	ug/L	0.864	1	593	4317825	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 22:16:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26020	27098	1	Standard
	Cl	**37**		ug/L			5354462	5501217	3	Standard
⌈>	**Sc**	**45**		ug/L			474891	482710	1	Standard
|	**Cr**	**52**	**0.002**	ug/L	0.013	700	16718	17030	2	Standard
⌊	**Cr**	**53**	**-0.004**	ug/L	0.029	818	209	205	32	Standard
⌈>	**Ge**	**72**		ug/L			34387	37464	1	KED
|	**Ni**	**60**	**-0.015**	ug/L	0.010	63	146	135	11	KED
|	**Ni**	**62**	**-0.057**	ug/L	0.023	40	34	24	24	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.012	308	114	107	50	KED
|	**Cu**	**65**	**-0.007**	ug/L	0.011	162	56	46	52	KED
|	**Zn**	**66**	**-0.049**	ug/L	0.022	45	76	55	23	KED
|	**Zn**	**67**	**-0.041**	ug/L	0.054	133	13	11	44	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.008	253	6	6	38	KED
	Y	**89**		ug/L			289124	289893	1	Standard
	Kr	**83**		ug/L			80	54	16	Standard
⌈>	**In-1**	**115**		ug/L			9102	8925	3	KED
|	**Cd**	**111**	**0.010**	ug/L	0.006	62	3	6	31	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.002	122	3	4	22	KED
⌈>	**In**	**115**		ug/L			483935	480315	0	Standard
⌊	**Ag**	**107**	**0.020**	ug/L	0.016	80	106	490	63	Standard
⌈>	**Tb**	**159**		ug/L			1215870	1194010	2	Standard
⌊	**Pb**	**208**	**0.012**	ug/L	0.022	185	593	1535	115	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0295-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 22:22:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26020	55099	2	Standard
	Cl	**37**		ug/L			5354462	5300027	1	Standard
⌈>	**Sc**	**45**		ug/L			474891	554971	1	Standard
|	**Cr**	**52**	**9.139**	ug/L	0.198	2	16718	214934	0	Standard
⌊	**Cr**	**53**	**8.940**	ug/L	0.162	1	209	22755	0	Standard
⌈>	**Ge**	**72**		ug/L			34387	38049	0	KED
|	**Ni**	**60**	**7.108**	ug/L	0.062	0	146	11196	1	KED
|	**Ni**	**62**	**7.339**	ug/L	0.112	1	34	1877	1	KED
|	**Cu**	**63**	**9.924**	ug/L	0.186	1	114	43473	2	KED
|	**Cu**	**65**	**10.003**	ug/L	0.190	1	56	22086	1	KED
|	**Zn**	**66**	**24.139**	ug/L	0.118	0	76	13703	0	KED
|	**Zn**	**67**	**23.308**	ug/L	0.664	2	13	2219	3	KED
⌊	**As**	**75**	**3.794**	ug/L	0.139	3	6	1155	3	KED
	Y	**89**		ug/L			289124	455668	1	Standard
	Kr	**83**		ug/L			80	66	12	Standard
⌈>	**In-1**	**115**		ug/L			9102	9152	1	KED
|	**Cd**	**111**	**0.037**	ug/L	0.001	2	3	14	3	KED
⌊	**Cd**	**114**	**0.043**	ug/L	0.009	21	3	38	20	KED
⌈>	**In**	**115**		ug/L			483935	494943	3	Standard
⌊	**Ag**	**107**	**0.029**	ug/L	0.002	8	106	666	6	Standard
⌈>	**Tb**	**159**		ug/L			1215870	1254248	2	Standard
⌊	**Pb**	**208**	**9.220**	ug/L	0.154	1	593	769618	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0774-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 22:29:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26020	59818	5	Standard
Cl	37		ug/L			5354462	5150680	3	Standard
> Sc	45		ug/L			474891	613581	6	Standard
Cr	52	13.651	ug/L	0.553	4	16718	343834	2	Standard
Cr	53	13.384	ug/L	0.731	5	209	37453	1	Standard
> Ge	72		ug/L			34387	36816	1	KED
Ni	60	14.766	ug/L	0.514	3	146	22332	2	KED
Ni	62	14.516	ug/L	0.158	1	34	3557	2	KED
Cu	63	28.468	ug/L	0.307	1	114	120424	0	KED
Cu	65	28.805	ug/L	0.297	1	56	61427	1	KED
Zn	66	60.858	ug/L	0.452	0	76	33306	1	KED
Zn	67	59.861	ug/L	1.224	2	13	5491	1	KED
As	75	6.370	ug/L	0.056	0	6	1873	0	KED
Y	89		ug/L			289124	570390	3	Standard
Kr	83		ug/L			80	93	10	Standard
> In-1	115		ug/L			9102	8841	1	KED
Cd	111	0.185	ug/L	0.007	3	3	57	2	KED
Cd	114	0.178	ug/L	0.027	14	3	141	13	KED
> In	115		ug/L			483935	462866	10	Standard
Ag	107	0.129	ug/L	0.011	8	106	2445	2	Standard
> Tb	159		ug/L			1215870	1161909	5	Standard
Pb	208	12.486	ug/L	0.739	5	593	963419	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0774-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 22:34:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26020	60188	2	Standard
Cl	37		ug/L			5354462	5217808	2	Standard
> Sc	45		ug/L			474891	633545	2	Standard
Cr	52	14.127	ug/L	0.225	1	16718	367254	3	Standard
Cr	53	14.144	ug/L	0.069	0	209	40947	2	Standard
> Ge	72		ug/L			34387	36811	2	KED
Ni	60	15.795	ug/L	0.216	1	146	23874	1	KED
Ni	62	15.793	ug/L	0.077	0	34	3865	2	KED
Cu	63	33.069	ug/L	0.890	2	114	139798	0	KED
Cu	65	32.589	ug/L	0.594	1	56	69460	1	KED
Zn	66	63.271	ug/L	0.972	1	76	34611	1	KED
Zn	67	62.211	ug/L	0.554	0	13	5706	2	KED
As	75	6.789	ug/L	0.093	1	6	1995	1	KED
Y	89		ug/L			289124	587501	5	Standard
Kr	83		ug/L			80	101	1	Standard
> In-1	115		ug/L			9102	8778	0	KED
Cd	111	0.203	ug/L	0.047	23	3	62	22	KED
Cd	114	0.191	ug/L	0.012	6	3	150	5	KED
> In	115		ug/L			483935	481530	3	Standard
Ag	107	0.140	ug/L	0.011	7	106	2780	9	Standard
> Tb	159		ug/L			1215870	1203948	2	Standard
Pb	208	13.728	ug/L	0.134	0	593	1099884	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0774-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 22:40:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26020	66696	5	Standard
Cl	37		ug/L			5354462	5181847	2	Standard
> Sc	45		ug/L			474891	636324	1	Standard
Cr	52	14.556	ug/L	0.141	0	16718	379346	1	Standard
Cr	53	14.396	ug/L	0.157	1	209	41848	0	Standard
> Ge	72		ug/L			34387	37345	1	KED
Ni	60	14.609	ug/L	0.260	1	146	22420	2	KED
Ni	62	14.671	ug/L	0.423	2	34	3645	1	KED
Cu	63	38.371	ug/L	0.583	1	114	164607	1	KED
Cu	65	38.311	ug/L	1.092	2	56	82839	2	KED
Zn	66	71.381	ug/L	0.740	1	76	39609	0	KED
Zn	67	67.855	ug/L	1.471	2	13	6312	1	KED
As	75	7.763	ug/L	0.117	1	6	2314	0	KED
Y	89		ug/L			289124	579604	0	Standard
Kr	83		ug/L			80	97	7	Standard
> In-1	115		ug/L			9102	8703	2	KED
Cd	111	0.225	ug/L	0.015	6	3	68	3	KED
Cd	114	0.227	ug/L	0.052	22	3	176	21	KED
> In	115		ug/L			483935	486705	2	Standard
Ag	107	0.180	ug/L	0.010	5	106	3568	3	Standard
> Tb	159		ug/L			1215870	1236350	1	Standard
Pb	208	18.806	ug/L	0.400	2	593	1546872	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0774-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 22:44:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26020	63424	4	Standard
Cl	37		ug/L			5354462	5124918	2	Standard
> Sc	45		ug/L			474891	613320	3	Standard
Cr	52	13.347	ug/L	0.215	1	16718	337103	4	Standard
Cr	53	13.137	ug/L	0.074	0	209	36832	3	Standard
> Ge	72		ug/L			34387	37540	0	KED
Ni	60	14.132	ug/L	0.141	0	146	21805	1	KED
Ni	62	14.272	ug/L	0.436	3	34	3566	3	KED
Cu	63	28.865	ug/L	0.454	1	114	124510	1	KED
Cu	65	29.262	ug/L	0.713	2	56	63627	2	KED
Zn	66	59.732	ug/L	0.751	1	76	33333	0	KED
Zn	67	59.071	ug/L	1.641	2	13	5526	2	KED
As	75	6.838	ug/L	0.095	1	6	2050	1	KED
Y	89		ug/L			289124	549543	5	Standard
Kr	83		ug/L			80	90	2	Standard
> In-1	115		ug/L			9102	7146	25	KED
Cd	111	0.225	ug/L	0.077	34	3	53	11	KED
Cd	114	0.244	ug/L	0.081	33	3	146	4	KED
> In	115		ug/L			483935	466975	5	Standard
Ag	107	0.154	ug/L	0.002	1	106	2945	5	Standard
> Tb	159		ug/L			1215870	1206526	2	Standard
Pb	208	12.270	ug/L	0.274	2	593	985604	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0365-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 22:48:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26020	64094	1	Standard
Cl	37		ug/L			5354462	5051319	2	Standard
> Sc	45		ug/L			474891	620819	0	Standard
Cr	52	14.227	ug/L	0.259	1	16718	362218	1	Standard
Cr	53	13.980	ug/L	0.338	2	209	39659	2	Standard
> Ge	72		ug/L			34387	36725	0	KED
Ni	60	14.622	ug/L	0.298	2	146	22067	2	KED
Ni	62	14.580	ug/L	0.339	2	34	3562	1	KED
Cu	63	29.935	ug/L	0.090	0	114	126318	0	KED
Cu	65	30.214	ug/L	0.324	1	56	64272	1	KED
Zn	66	62.651	ug/L	2.091	3	76	34193	2	KED
Zn	67	61.809	ug/L	0.658	1	13	5656	0	KED
As	75	6.599	ug/L	0.136	2	6	1935	1	KED
Y	89		ug/L			289124	582555	0	Standard
Kr	83		ug/L			80	102	21	Standard
> In-1	115		ug/L			9102	8603	1	KED
Cd	111	0.198	ug/L	0.031	15	3	60	12	KED
Cd	114	0.210	ug/L	0.042	19	3	161	18	KED
> In	115		ug/L			483935	476901	3	Standard
Ag	107	0.126	ug/L	0.007	5	106	2485	4	Standard
> Tb	159		ug/L			1215870	1220840	0	Standard
Pb	208	12.800	ug/L	0.224	1	593	1039969	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0365-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 22:53:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26020	59554	0	Standard
	Cl	37		ug/L			5354462	5039249	0	Standard
⌈>	Sc	45		ug/L			474891	572945	6	Standard
|	Cr	52	33.098	ug/L	1.741	5	16718	749198	2	Standard
⌊	Cr	53	32.721	ug/L	1.591	4	209	85139	2	Standard
⌈>	Ge	72		ug/L			34387	36355	0	KED
|	Ni	60	39.045	ug/L	0.701	1	146	58072	1	KED
|	Ni	62	40.015	ug/L	0.562	1	34	9617	1	KED
|	Cu	63	53.975	ug/L	0.556	1	114	225370	1	KED
|	Cu	65	53.175	ug/L	1.105	2	56	111923	1	KED
|	Zn	66	137.561	ug/L	0.631	0	76	74239	0	KED
|	Zn	67	131.587	ug/L	2.598	1	13	11904	1	KED
⌊	As	75	30.459	ug/L	0.329	1	6	8819	1	KED
	Y	89		ug/L			289124	511256	4	Standard
	Kr	83		ug/L			80	105	15	Standard
⌈>	In-1	115		ug/L			9102	8481	1	KED
|	Cd	111	25.287	ug/L	0.512	2	3	7151	1	KED
⌊	Cd	114	24.632	ug/L	1.069	4	3	18274	3	KED
⌈>	In	115		ug/L			483935	449515	8	Standard
⌊	Ag	107	21.692	ug/L	1.043	4	106	384723	4	Standard
⌈>	Tb	159		ug/L			1215870	1136686	7	Standard
⌊	Pb	208	39.330	ug/L	2.129	5	593	2966621	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0365-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 22:57:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26020	55835	2	Standard
Cl	37		ug/L			5354462	5053592	2	Standard
> Sc	45		ug/L			474891	609940	1	Standard
Cr	52	32.465	ug/L	0.226	0	16718	784592	1	Standard
Cr	53	32.689	ug/L	0.190	0	209	90755	1	Standard
> Ge	72		ug/L			34387	36173	0	KED
Ni	60	40.167	ug/L	0.352	0	146	59436	0	KED
Ni	62	39.629	ug/L	1.135	2	34	9476	2	KED
Cu	63	53.956	ug/L	1.134	2	114	224143	1	KED
Cu	65	54.584	ug/L	0.671	1	56	114310	0	KED
Zn	66	140.471	ug/L	1.376	0	76	75425	0	KED
Zn	67	135.476	ug/L	1.463	1	13	12195	1	KED
As	75	30.482	ug/L	0.270	0	6	8781	0	KED
Y	89		ug/L			289124	558330	2	Standard
Kr	83		ug/L			80	114	8	Standard
> In-1	115		ug/L			9102	8495	0	KED
Cd	111	25.054	ug/L	0.369	1	3	7099	1	KED
Cd	114	24.568	ug/L	0.149	0	3	18262	0	KED
> In	115		ug/L			483935	480160	0	Standard
Ag	107	15.700	ug/L	0.101	0	106	298205	0	Standard
> Tb	159		ug/L			1215870	1199894	0	Standard
Pb	208	38.272	ug/L	0.253	0	593	3055196	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0365-PS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 23:02:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26020	64295	1	Standard
Cl	37		ug/L			5354462	5102524	3	Standard
> Sc	45		ug/L			474891	605116	2	Standard
Cr	52	32.761	ug/L	0.935	2	16718	784977	1	Standard
Cr	53	32.681	ug/L	0.813	2	209	89977	0	Standard
> Ge	72		ug/L			34387	35711	1	KED
Ni	60	40.311	ug/L	0.839	2	146	58875	0	KED
Ni	62	40.177	ug/L	0.865	2	34	9483	1	KED
Cu	63	55.655	ug/L	0.652	1	114	228238	0	KED
Cu	65	55.446	ug/L	1.161	2	56	114615	1	KED
Zn	66	138.792	ug/L	0.957	0	76	73572	1	KED
Zn	67	133.316	ug/L	5.004	3	13	11843	2	KED
As	75	31.439	ug/L	0.639	2	6	8940	0	KED
Y	89		ug/L			289124	545227	1	Standard
Kr	83		ug/L			80	112	8	Standard
> In-1	115		ug/L			9102	8257	0	KED
Cd	111	25.383	ug/L	0.194	0	3	6990	0	KED
Cd	114	25.526	ug/L	0.396	1	3	18440	0	KED
> In	115		ug/L			483935	475572	0	Standard
Ag	107	24.100	ug/L	0.143	0	106	453318	0	Standard
> Tb	159		ug/L			1215870	1201378	1	Standard
Pb	208	37.661	ug/L	0.928	2	593	3009665	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 23:06:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26020	29555	1	Standard
	Cl	**37**		ug/L			5354462	5012101	4	Standard
⌈>	**Sc**	**45**		ug/L			474891	473315	0	Standard
|	**Cr**	**52**	**0.019**	ug/L	0.075	404	16718	16995	7	Standard
⌊	**Cr**	**53**	**0.010**	ug/L	0.060	576	209	230	54	Standard
⌈>	**Ge**	**72**		ug/L			34387	35740	0	KED
|	**Ni**	**60**	**-0.010**	ug/L	0.020	210	146	137	20	KED
|	**Ni**	**62**	**-0.060**	ug/L	0.020	33	34	22	21	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.001	36	114	106	4	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.001	53	56	55	1	KED
|	**Zn**	**66**	**0.164**	ug/L	0.021	12	76	166	6	KED
|	**Zn**	**67**	**0.143**	ug/L	0.100	69	13	27	32	KED
⌊	**As**	**75**	**-0.011**	ug/L	0.001	8	6	3	7	KED
	Y	**89**		ug/L			289124	278672	2	Standard
	Kr	**83**		ug/L			80	71	12	Standard
⌈>	**In-1**	**115**		ug/L			9102	6583	27	KED
|	**Cd**	**111**	**0.016**	ug/L	0.031	196	3	4	91	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.002	115	3	3	2	KED
⌈>	**In**	**115**		ug/L			483935	479155	2	Standard
⌊	**Ag**	**107**	**0.026**	ug/L	0.041	153	106	615	127	Standard
⌈>	**Tb**	**159**		ug/L			1215870	1175714	1	Standard
⌊	**Pb**	**208**	**0.042**	ug/L	0.066	156	593	3834	132	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 23:11:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26020	30033	1	Standard
	Cl	**37**		ug/L			5354462	5406692	1	Standard
⎡>	**Sc**	**45**		ug/L			474891	480313	1	Standard
⎢	**Cr**	**52**	**49.908**	ug/L	0.325	0	16718	940739	1	Standard
⎣	**Cr**	**53**	**48.543**	ug/L	0.156	0	209	106018	0	Standard
⎡>	**Ge**	**72**		ug/L			34387	36149	2	KED
⎢	**Ni**	**60**	**51.323**	ug/L	1.546	3	146	75809	0	KED
⎢	**Ni**	**62**	**51.166**	ug/L	2.415	4	34	12207	2	KED
⎢	**Cu**	**63**	**51.730**	ug/L	0.612	1	114	214730	1	KED
⎢	**Cu**	**65**	**51.395**	ug/L	1.290	2	56	107521	1	KED
⎢	**Zn**	**66**	**51.008**	ug/L	1.987	3	76	27402	1	KED
⎢	**Zn**	**67**	**50.921**	ug/L	1.303	2	13	4589	3	KED
⎣	**As**	**75**	**50.056**	ug/L	1.029	2	6	14402	0	KED
	Y	**89**		ug/L			289124	284971	1	Standard
	Kr	**83**		ug/L			80	83	16	Standard
⎡>	**In-1**	**115**		ug/L			9102	8480	0	KED
⎢	**Cd**	**111**	**51.976**	ug/L	0.071	0	3	14697	0	KED
⎣	**Cd**	**114**	**49.833**	ug/L	0.253	0	3	36972	0	KED
⎡>	**In**	**115**		ug/L			483935	468623	0	Standard
⎣	**Ag**	**107**	**48.449**	ug/L	2.254	4	106	897735	4	Standard
⎡>	**Tb**	**159**		ug/L			1215870	1194156	0	Standard
⎣	**Pb**	**208**	**51.689**	ug/L	1.360	2	593	4106517	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, April 27, 2023 23:18:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26020	27211	2	Standard
	Cl	**37**		ug/L			5354462	5263540	1	Standard
⌈>	**Sc**	**45**		ug/L			474891	471142	1	Standard
|	**Cr**	**52**	**0.019**	ug/L	0.054	281	16718	16923	4	Standard
⌊	**Cr**	**53**	**-0.015**	ug/L	0.019	126	209	174	22	Standard
⌈>	**Ge**	**72**		ug/L			34387	35349	2	KED
|	**Ni**	**60**	**-0.008**	ug/L	0.008	92	146	137	6	KED
|	**Ni**	**62**	**-0.042**	ug/L	0.029	67	34	26	25	KED
|	**Cu**	**63**	**-0.015**	ug/L	0.002	11	114	55	13	KED
|	**Cu**	**65**	**-0.014**	ug/L	0.006	39	56	29	37	KED
|	**Zn**	**66**	**-0.056**	ug/L	0.010	16	76	48	11	KED
|	**Zn**	**67**	**-0.033**	ug/L	0.024	73	13	11	16	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.009	708	6	6	40	KED
	Y	**89**		ug/L			289124	282893	1	Standard
	Kr	**83**		ug/L			80	54	5	Standard
⌈>	**In-1**	**115**		ug/L			9102	8593	2	KED
|	**Cd**	**111**	**0.002**	ug/L	0.012	719	3	3	90	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.002	90	3	1	116	KED
⌈>	**In**	**115**		ug/L			483935	483377	1	Standard
⌊	**Ag**	**107**	**0.013**	ug/L	0.011	88	106	354	63	Standard
⌈>	**Tb**	**159**		ug/L			1215870	1186069	0	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.010	208	593	958	82	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0394-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 23:22:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26020	42023	1	Standard
	Cl	37		ug/L			5354462	5125459	1	Standard
⌈>	Sc	45		ug/L			474891	488422	1	Standard
|	Cr	52	0.026	ug/L	0.041	159	16718	17672	2	Standard
⌊	Cr	53	-0.030	ug/L	0.002	6	209	149	2	Standard
⌈>	Ge	72		ug/L			34387	35873	0	KED
|	Ni	60	-0.044	ug/L	0.003	7	146	87	5	KED
|	Ni	62	-0.100	ug/L	0.026	25	34	12	48	KED
|	Cu	63	0.291	ug/L	0.014	4	114	1318	3	KED
|	Cu	65	0.295	ug/L	0.022	7	56	671	7	KED
|	Zn	66	0.011	ug/L	0.039	367	76	85	23	KED
|	Zn	67	0.007	ug/L	0.021	280	13	15	12	KED
⌊	As	75	-0.010	ug/L	0.003	25	6	3	19	KED
	Y	89		ug/L			289124	279350	2	Standard
	Kr	83		ug/L			80	50	22	Standard
⌈>	In-1	115		ug/L			9102	8511	0	KED
|	Cd	111	0.004	ug/L	0.004	91	3	4	24	KED
⌊	Cd	114	0.003	ug/L	0.005	198	3	5	68	KED
⌈>	In	115		ug/L			483935	480748	1	Standard
⌊	Ag	107	0.001	ug/L	0.001	95	106	125	13	Standard
⌈>	Tb	159		ug/L			1215870	1193884	1	Standard
⌊	Pb	208	-0.002	ug/L	0.000	6	593	427	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0394-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 23:27:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26020	34789	1	Standard
	Cl	37		ug/L			5354462	5267253	2	Standard
⌈>	Sc	45		ug/L			474891	488381	0	Standard
|	Cr	52	28.658	ug/L	0.332	1	16718	556548	1	Standard
⌊	Cr	53	27.741	ug/L	0.527	1	209	61702	2	Standard
⌈>	Ge	72		ug/L			34387	36533	1	KED
|	Ni	60	25.198	ug/L	0.213	0	146	37715	1	KED
|	Ni	62	25.858	ug/L	0.729	2	34	6257	2	KED
|	Cu	63	26.321	ug/L	0.294	1	114	110507	1	KED
|	Cu	65	26.763	ug/L	0.313	1	56	56637	1	KED
|	Zn	66	77.529	ug/L	1.357	1	76	42084	2	KED
|	Zn	67	74.181	ug/L	0.611	0	13	6750	1	KED
⌊	As	75	23.499	ug/L	0.086	0	6	6839	0	KED
	Y	89		ug/L			289124	290550	0	Standard
	Kr	83		ug/L			80	67	19	Standard
⌈>	In-1	115		ug/L			9102	8352	1	KED
|	Cd	111	26.600	ug/L	0.232	0	3	7408	1	KED
⌊	Cd	114	26.486	ug/L	0.366	1	3	19352	1	KED
⌈>	In	115		ug/L			483935	480893	0	Standard
⌊	Ag	107	28.010	ug/L	0.525	1	106	532678	0	Standard
⌈>	Tb	159		ug/L			1215870	1213724	0	Standard
⌊	Pb	208	28.735	ug/L	0.234	0	593	2320471	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0774-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 23:31:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26020	62168	1	Standard
Cl	37		ug/L			5354462	5049185	2	Standard
> Sc	45		ug/L			474891	620918	2	Standard
Cr	52	12.854	ug/L	0.467	3	16718	329289	2	Standard
Cr	53	12.957	ug/L	0.159	1	209	36774	1	Standard
> Ge	72		ug/L			34387	36402	1	KED
Ni	60	14.073	ug/L	0.105	0	146	21057	1	KED
Ni	62	13.986	ug/L	0.292	2	34	3389	2	KED
Cu	63	30.915	ug/L	0.232	0	114	129296	0	KED
Cu	65	31.050	ug/L	0.443	1	56	65467	2	KED
Zn	66	58.128	ug/L	0.327	0	76	31456	0	KED
Zn	67	55.703	ug/L	1.272	2	13	5054	2	KED
As	75	6.656	ug/L	0.063	0	6	1935	1	KED
Y	89		ug/L			289124	570898	0	Standard
Kr	83		ug/L			80	109	10	Standard
> In-1	115		ug/L			9102	8442	2	KED
Cd	111	0.187	ug/L	0.013	7	3	55	4	KED
Cd	114	0.175	ug/L	0.008	4	3	132	3	KED
> In	115		ug/L			483935	469126	0	Standard
Ag	107	0.144	ug/L	0.005	3	106	2774	2	Standard
> Tb	159		ug/L			1215870	1185646	1	Standard
Pb	208	13.092	ug/L	0.315	2	593	1032863	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0774-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 23:35:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26020	60242	0	Standard
Cl	37		ug/L			5354462	5078176	3	Standard
> Sc	45		ug/L			474891	621011	0	Standard
Cr	52	13.135	ug/L	0.029	0	16718	336205	0	Standard
Cr	53	13.006	ug/L	0.252	1	209	36928	2	Standard
> Ge	72		ug/L			34387	35268	1	KED
Ni	60	14.451	ug/L	0.330	2	146	20939	0	KED
Ni	62	14.642	ug/L	0.510	3	34	3435	2	KED
Cu	63	29.539	ug/L	0.784	2	114	119665	0	KED
Cu	65	29.456	ug/L	0.573	1	56	60161	1	KED
Zn	66	56.235	ug/L	0.707	1	76	29492	3	KED
Zn	67	55.201	ug/L	1.427	2	13	4851	1	KED
As	75	5.999	ug/L	0.222	3	6	1689	1	KED
Y	89		ug/L			289124	555563	1	Standard
Kr	83		ug/L			80	98	11	Standard
> In-1	115		ug/L			9102	8621	0	KED
Cd	111	0.233	ug/L	0.024	10	3	70	9	KED
Cd	114	0.235	ug/L	0.015	6	3	180	6	KED
> In	115		ug/L			483935	465337	1	Standard
Ag	107	0.119	ug/L	0.005	4	106	2283	2	Standard
> Tb	159		ug/L			1215870	1205291	1	Standard
Pb	208	11.285	ug/L	0.244	2	593	905191	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0774-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 23:40:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26020	56584	1	Standard
Cl	37		ug/L			5354462	5016397	2	Standard
> Sc	45		ug/L			474891	634489	0	Standard
Cr	52	13.186	ug/L	0.361	2	16718	344762	2	Standard
Cr	53	12.932	ug/L	0.236	1	209	37516	2	Standard
> Ge	72		ug/L			34387	36484	1	KED
Ni	60	15.033	ug/L	0.254	1	146	22530	0	KED
Ni	62	14.538	ug/L	0.267	1	34	3530	3	KED
Cu	63	28.492	ug/L	0.648	2	114	119421	1	KED
Cu	65	29.174	ug/L	0.431	1	56	61643	0	KED
Zn	66	57.245	ug/L	1.089	1	76	31046	0	KED
Zn	67	55.639	ug/L	1.014	1	13	5059	0	KED
As	75	6.241	ug/L	0.133	2	6	1819	2	KED
Y	89		ug/L			289124	595462	1	Standard
Kr	83		ug/L			80	118	24	Standard
> In-1	115		ug/L			9102	8304	0	KED
Cd	111	0.186	ug/L	0.054	28	3	54	27	KED
Cd	114	0.180	ug/L	0.016	8	3	134	8	KED
> In	115		ug/L			483935	461005	2	Standard
Ag	107	0.132	ug/L	0.005	4	106	2503	5	Standard
> Tb	159		ug/L			1215870	1173626	1	Standard
Pb	208	11.327	ug/L	0.156	1	593	884760	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0774-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 23:44:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26020	59244	0	Standard
Cl	37		ug/L			5354462	5040995	2	Standard
> Sc	45		ug/L			474891	607472	1	Standard
Cr	52	13.278	ug/L	0.396	2	16718	332177	2	Standard
Cr	53	13.135	ug/L	0.087	0	209	36474	0	Standard
> Ge	72		ug/L			34387	36028	1	KED
Ni	60	13.744	ug/L	0.191	1	146	20354	0	KED
Ni	62	13.744	ug/L	0.089	0	34	3297	1	KED
Cu	63	32.525	ug/L	0.790	2	114	134607	1	KED
Cu	65	32.863	ug/L	0.527	1	56	68560	0	KED
Zn	66	66.838	ug/L	1.123	1	76	35784	1	KED
Zn	67	63.446	ug/L	2.522	3	13	5693	2	KED
As	75	7.141	ug/L	0.212	2	6	2053	2	KED
Y	89		ug/L			289124	549241	2	Standard
Kr	83		ug/L			80	86	21	Standard
> In-1	115		ug/L			9102	8591	1	KED
Cd	111	0.258	ug/L	0.044	16	3	77	16	KED
Cd	114	0.225	ug/L	0.021	9	3	172	7	KED
> In	115		ug/L			483935	465228	3	Standard
Ag	107	0.147	ug/L	0.008	5	106	2809	3	Standard
> Tb	159		ug/L			1215870	1187637	2	Standard
Pb	208	15.694	ug/L	0.250	1	593	1240101	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0774-09
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 23:49:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26020	58607	2	Standard
Cl	37		ug/L			5354462	4966328	2	Standard
> Sc	45		ug/L			474891	632037	2	Standard
Cr	52	14.991	ug/L	0.351	2	16718	387276	0	Standard
Cr	53	14.834	ug/L	0.114	0	209	42827	2	Standard
> Ge	72		ug/L			34387	35777	0	KED
Ni	60	18.025	ug/L	0.309	1	146	26463	1	KED
Ni	62	18.545	ug/L	0.243	1	34	4405	1	KED
Cu	63	28.986	ug/L	0.015	0	114	119161	0	KED
Cu	65	28.931	ug/L	0.152	0	56	59953	0	KED
Zn	66	56.372	ug/L	0.402	0	76	29986	0	KED
Zn	67	53.121	ug/L	1.900	3	13	4737	3	KED
As	75	5.824	ug/L	0.199	3	6	1664	3	KED
Y	89		ug/L			289124	611592	1	Standard
Kr	83		ug/L			80	123	10	Standard
> In-1	115		ug/L			9102	8561	1	KED
Cd	111	0.166	ug/L	0.003	1	3	50	2	KED
Cd	114	0.149	ug/L	0.018	12	3	114	10	KED
> In	115		ug/L			483935	461165	1	Standard
Ag	107	0.134	ug/L	0.005	4	106	2549	2	Standard
> Tb	159		ug/L			1215870	1179672	2	Standard
Pb	208	12.112	ug/L	0.391	3	593	950551	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0774-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 23:53:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26020	55053	2	Standard
	Cl	37		ug/L			5354462	4942631	3	Standard
>	Sc	45		ug/L			474891	593178	5	Standard
	Cr	52	14.412	ug/L	0.729	5	16718	349719	2	Standard
	Cr	53	14.196	ug/L	0.752	5	209	38396	1	Standard
>	Ge	72		ug/L			34387	35572	1	KED
	Ni	60	13.690	ug/L	0.335	2	146	20020	2	KED
	Ni	62	13.796	ug/L	0.185	1	34	3267	0	KED
	Cu	63	32.110	ug/L	0.597	1	114	131253	3	KED
	Cu	65	32.153	ug/L	0.032	0	56	66243	1	KED
	Zn	66	67.325	ug/L	0.595	0	76	35589	0	KED
	Zn	67	64.901	ug/L	2.443	3	13	5750	2	KED
	As	75	6.722	ug/L	0.263	3	6	1909	4	KED
	Y	89		ug/L			289124	566885	5	Standard
	Kr	83		ug/L			80	113	16	Standard
>	In-1	115		ug/L			9102	8235	1	KED
	Cd	111	0.274	ug/L	0.036	13	3	78	12	KED
	Cd	114	0.281	ug/L	0.035	12	3	205	11	KED
>	In	115		ug/L			483935	448693	5	Standard
	Ag	107	0.240	ug/L	0.002	0	106	4351	4	Standard
>	Tb	159		ug/L			1215870	1154559	6	Standard
	Pb	208	23.745	ug/L	1.282	5	593	1820256	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0774-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, April 27, 2023 23:58:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26020	60011	0	Standard
Cl	37		ug/L			5354462	5027483	1	Standard
> Sc	45		ug/L			474891	604277	0	Standard
Cr	52	13.149	ug/L	0.305	2	16718	327441	1	Standard
Cr	53	13.211	ug/L	0.184	1	209	36493	1	Standard
> Ge	72		ug/L			34387	35294	2	KED
Ni	60	14.165	ug/L	0.207	1	146	20547	2	KED
Ni	62	14.520	ug/L	0.180	1	34	3410	2	KED
Cu	63	29.637	ug/L	0.182	0	114	120178	1	KED
Cu	65	29.537	ug/L	0.388	1	56	60390	3	KED
Zn	66	72.413	ug/L	0.639	0	76	37974	1	KED
Zn	67	69.878	ug/L	0.646	0	13	6144	2	KED
As	75	6.313	ug/L	0.199	3	6	1778	1	KED
Y	89		ug/L			289124	548659	4	Standard
Kr	83		ug/L			80	95	18	Standard
> In-1	115		ug/L			9102	8436	0	KED
Cd	111	0.160	ug/L	0.028	17	3	48	16	KED
Cd	114	0.155	ug/L	0.014	8	3	118	8	KED
> In	115		ug/L			483935	467072	1	Standard
Ag	107	0.140	ug/L	0.003	2	106	2680	1	Standard
> Tb	159		ug/L			1215870	1176563	2	Standard
Pb	208	12.325	ug/L	0.216	1	593	964931	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 00:02:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26020	29535	4	Standard
	Cl	**37**		ug/L			5354462	4943850	2	Standard
⌈>	**Sc**	**45**		ug/L			474891	469911	1	Standard
|	**Cr**	**52**	**-0.026**	ug/L	0.009	32	16718	16065	1	Standard
⌊	**Cr**	**53**	**-0.031**	ug/L	0.005	17	209	141	9	Standard
⌈>	**Ge**	**72**		ug/L			34387	35624	2	KED
|	**Ni**	**60**	**-0.027**	ug/L	0.014	50	146	111	15	KED
|	**Ni**	**62**	**-0.054**	ug/L	0.024	45	34	23	24	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.002	59	114	106	8	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.001	27	56	53	3	KED
|	**Zn**	**66**	**0.124**	ug/L	0.027	22	76	144	7	KED
|	**Zn**	**67**	**0.044**	ug/L	0.040	91	13	18	21	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.007	224	6	5	30	KED
	Y	**89**		ug/L			289124	283159	1	Standard
	Kr	**83**		ug/L			80	45	28	Standard
⌈>	**In-1**	**115**		ug/L			9102	8106	1	KED
|	**Cd**	**111**	**0.003**	ug/L	0.012	469	3	3	86	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.006	206	3	5	72	KED
⌈>	**In**	**115**		ug/L			483935	471303	0	Standard
⌊	**Ag**	**107**	**-0.003**	ug/L	0.001	20	106	50	20	Standard
⌈>	**Tb**	**159**		ug/L			1215870	1183491	2	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	11	593	908	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 00:06:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26020	29606	1	Standard
	Cl	**37**		ug/L			5354462	5415436	1	Standard
⌈>	**Sc**	**45**		ug/L			474891	478241	2	Standard
|	**Cr**	**52**	**49.398**	ug/L	1.510	3	16718	926876	1	Standard
⌊	**Cr**	**53**	**48.483**	ug/L	0.719	1	209	105416	1	Standard
⌈>	**Ge**	**72**		ug/L			34387	35839	2	KED
|	**Ni**	**60**	**49.635**	ug/L	0.901	1	146	72712	0	KED
|	**Ni**	**62**	**49.644**	ug/L	1.466	2	34	11750	2	KED
|	**Cu**	**63**	**51.325**	ug/L	0.844	1	114	211256	2	KED
|	**Cu**	**65**	**51.760**	ug/L	0.845	1	56	107388	1	KED
|	**Zn**	**66**	**51.012**	ug/L	1.294	2	76	27179	0	KED
|	**Zn**	**67**	**50.230**	ug/L	2.103	4	13	4486	2	KED
⌊	**As**	**75**	**49.197**	ug/L	0.986	2	6	14035	1	KED
	Y	**89**		ug/L			289124	282775	0	Standard
	Kr	**83**		ug/L			80	58	16	Standard
⌈>	**In-1**	**115**		ug/L			9102	8334	1	KED
|	**Cd**	**111**	**50.800**	ug/L	0.621	1	3	14115	0	KED
⌊	**Cd**	**114**	**50.246**	ug/L	1.138	2	3	36628	0	KED
⌈>	**In**	**115**		ug/L			483935	461352	2	Standard
⌊	**Ag**	**107**	**48.841**	ug/L	1.103	2	106	890851	1	Standard
⌈>	**Tb**	**159**		ug/L			1215870	1162639	1	Standard
⌊	**Pb**	**208**	**53.083**	ug/L	0.622	1	593	4105335	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 00:14:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26020	26752	1	Standard
	Cl	**37**		ug/L			5354462	5177482	1	Standard
⌈>	**Sc**	**45**		ug/L			474891	472005	1	Standard
|	**Cr**	**52**	**0.018**	ug/L	0.005	27	16718	16941	1	Standard
⌊	**Cr**	**53**	**-0.033**	ug/L	0.003	8	209	136	3	Standard
⌈>	**Ge**	**72**		ug/L			34387	36189	0	KED
|	**Ni**	**60**	**-0.018**	ug/L	0.017	95	146	126	19	KED
|	**Ni**	**62**	**-0.034**	ug/L	0.021	62	34	28	17	KED
|	**Cu**	**63**	**-0.016**	ug/L	0.001	4	114	52	5	KED
|	**Cu**	**65**	**-0.011**	ug/L	0.001	8	56	36	5	KED
|	**Zn**	**66**	**-0.045**	ug/L	0.026	57	76	55	25	KED
|	**Zn**	**67**	**-0.015**	ug/L	0.064	417	13	13	42	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.009	254	6	5	43	KED
	Y	**89**		ug/L			289124	274500	1	Standard
	Kr	**83**		ug/L			80	54	4	Standard
⌈>	**In-1**	**115**		ug/L			9102	8801	2	KED
|	**Cd**	**111**	**0.017**	ug/L	0.008	48	3	8	26	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.006	204	3	6	77	KED
⌈>	**In**	**115**		ug/L			483935	470068	3	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.001	12	106	197	2	Standard
⌈>	**Tb**	**159**		ug/L			1215870	1165917	0	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	11	593	501	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0774-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 00:18:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26020	54636	1	Standard
Cl	37		ug/L			5354462	5014401	2	Standard
> Sc	45		ug/L			474891	607772	1	Standard
Cr	52	13.545	ug/L	0.154	1	16718	338650	1	Standard
Cr	53	13.397	ug/L	0.147	1	209	37215	0	Standard
> Ge	72		ug/L			34387	35728	1	KED
Ni	60	14.146	ug/L	0.202	1	146	20771	1	KED
Ni	62	14.085	ug/L	0.142	1	34	3350	1	KED
Cu	63	32.095	ug/L	0.739	2	114	131727	1	KED
Cu	65	32.239	ug/L	0.588	1	56	66702	0	KED
Zn	66	73.070	ug/L	0.722	0	76	38790	1	KED
Zn	67	70.876	ug/L	2.477	3	13	6307	3	KED
As	75	7.062	ug/L	0.171	2	6	2014	1	KED
Y	89		ug/L			289124	551578	1	Standard
Kr	83		ug/L			80	114	1	Standard
> In-1	115		ug/L			9102	8539	3	KED
Cd	111	0.187	ug/L	0.056	29	3	56	24	KED
Cd	114	0.190	ug/L	0.034	17	3	145	14	KED
> In	115		ug/L			483935	467332	2	Standard
Ag	107	0.151	ug/L	0.001	0	106	2898	2	Standard
> Tb	159		ug/L			1215870	1186574	1	Standard
Pb	208	15.382	ug/L	0.284	1	593	1214421	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0774-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 00:22:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26020	55870	1	Standard
Cl	37		ug/L			5354462	5015011	3	Standard
Sc	45		ug/L			474891	631512	1	Standard
Cr	52	13.713	ug/L	0.233	1	16718	355904	0	Standard
Cr	53	14.001	ug/L	0.123	0	209	40399	0	Standard
Ge	72		ug/L			34387	35976	1	KED
Ni	60	16.504	ug/L	0.020	0	146	24379	1	KED
Ni	62	16.391	ug/L	0.448	2	34	3919	2	KED
Cu	63	30.804	ug/L	0.355	1	114	127315	0	KED
Cu	65	30.345	ug/L	0.225	0	56	63228	1	KED
Zn	66	60.418	ug/L	1.015	1	76	32305	0	KED
Zn	67	58.026	ug/L	1.322	2	13	5202	1	KED
As	75	6.152	ug/L	0.192	3	6	1767	1	KED
Y	89		ug/L			289124	574026	0	Standard
Kr	83		ug/L			80	106	36	Standard
In-1	115		ug/L			9102	8078	1	KED
Cd	111	0.185	ug/L	0.038	20	3	53	19	KED
Cd	114	0.231	ug/L	0.035	15	3	166	13	KED
In	115		ug/L			483935	461686	0	Standard
Ag	107	0.156	ug/L	0.004	2	106	2939	1	Standard
Tb	159		ug/L			1215870	1170045	2	Standard
Pb	208	15.017	ug/L	0.419	2	593	1168901	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0774-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 00:27:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26020	52168	1	Standard
	Cl	37		ug/L			5354462	4949352	3	Standard
>	Sc	45		ug/L			474891	590528	0	Standard
	Cr	52	12.675	ug/L	0.234	1	16718	309213	1	Standard
	Cr	53	12.569	ug/L	0.229	1	209	33942	1	Standard
>	Ge	72		ug/L			34387	35965	0	KED
	Ni	60	12.625	ug/L	0.215	1	146	18677	1	KED
	Ni	62	12.943	ug/L	0.297	2	34	3101	2	KED
	Cu	63	31.445	ug/L	0.310	0	114	129942	1	KED
	Cu	65	31.236	ug/L	0.648	2	56	65060	1	KED
	Zn	66	61.640	ug/L	0.250	0	76	32953	1	KED
	Zn	67	58.078	ug/L	0.292	0	13	5206	0	KED
	As	75	5.642	ug/L	0.060	1	6	1621	1	KED
	Y	89		ug/L			289124	532615	4	Standard
	Kr	83		ug/L			80	88	8	Standard
>	In-1	115		ug/L			9102	8348	0	KED
	Cd	111	0.195	ug/L	0.019	9	3	57	8	KED
	Cd	114	0.171	ug/L	0.011	6	3	128	7	KED
>	In	115		ug/L			483935	456932	3	Standard
	Ag	107	0.126	ug/L	0.003	2	106	2384	3	Standard
>	Tb	159		ug/L			1215870	1163134	1	Standard
	Pb	208	13.204	ug/L	0.213	1	593	1022008	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0326-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 00:31:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26020	60284	2	Standard
Cl	37		ug/L			5354462	4979729	2	Standard
> Sc	45		ug/L			474891	618471	1	Standard
Cr	52	15.598	ug/L	0.247	1	16718	393457	0	Standard
Cr	53	15.208	ug/L	0.171	1	209	42954	1	Standard
> Ge	72		ug/L			34387	35900	1	KED
Ni	60	15.161	ug/L	0.082	0	146	22359	0	KED
Ni	62	15.321	ug/L	0.638	4	34	3657	3	KED
Cu	63	38.720	ug/L	1.141	2	114	159651	2	KED
Cu	65	39.051	ug/L	0.900	2	56	81174	1	KED
Zn	66	70.722	ug/L	0.953	1	76	37724	0	KED
Zn	67	68.940	ug/L	1.835	2	13	6164	1	KED
As	75	6.960	ug/L	0.046	0	6	1995	1	KED
Y	89		ug/L			289124	557620	3	Standard
Kr	83		ug/L			80	101	3	Standard
> In-1	115		ug/L			9102	8242	3	KED
Cd	111	0.212	ug/L	0.033	15	3	61	13	KED
Cd	114	0.212	ug/L	0.034	15	3	156	15	KED
> In	115		ug/L			483935	468987	1	Standard
Ag	107	0.195	ug/L	0.005	2	106	3724	3	Standard
> Tb	159		ug/L			1215870	1184177	0	Standard
Pb	208	21.914	ug/L	0.115	0	593	1726688	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0326-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 00:36:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26020	60993	3	Standard
Cl	37		ug/L			5354462	4932307	1	Standard
> Sc	45		ug/L			474891	607815	2	Standard
Cr	52	13.487	ug/L	0.172	1	16718	337244	1	Standard
Cr	53	13.202	ug/L	0.257	1	209	36672	0	Standard
> Ge	72		ug/L			34387	36361	1	KED
Ni	60	13.717	ug/L	0.231	1	146	20502	0	KED
Ni	62	13.549	ug/L	0.229	1	34	3281	2	KED
Cu	63	36.573	ug/L	0.479	1	114	152769	1	KED
Cu	65	36.892	ug/L	0.791	2	56	77672	1	KED
Zn	66	70.324	ug/L	2.020	2	76	37990	1	KED
Zn	67	69.078	ug/L	1.504	2	13	6257	2	KED
As	75	6.185	ug/L	0.046	0	6	1796	1	KED
Y	89		ug/L			289124	547994	0	Standard
Kr	83		ug/L			80	98	9	Standard
> In-1	115		ug/L			9102	8351	0	KED
Cd	111	0.215	ug/L	0.034	15	3	63	15	KED
Cd	114	0.205	ug/L	0.019	9	3	153	9	KED
> In	115		ug/L			483935	452765	2	Standard
Ag	107	0.148	ug/L	0.009	5	106	2741	4	Standard
> Tb	159		ug/L			1215870	1171547	3	Standard
Pb	208	16.446	ug/L	0.378	2	593	1281561	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0394-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 00:40:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26020	58674	0	Standard
Cl	37		ug/L			5354462	4896318	1	Standard
Sc	45		ug/L			474891	610143	0	Standard
Cr	52	14.056	ug/L	0.150	1	16718	351985	1	Standard
Cr	53	14.170	ug/L	0.337	2	209	39503	2	Standard
Ge	72		ug/L			34387	35024	0	KED
Ni	60	14.667	ug/L	0.682	4	146	21103	3	KED
Ni	62	14.971	ug/L	0.520	3	34	3489	4	KED
Cu	63	39.276	ug/L	0.309	0	114	158018	0	KED
Cu	65	39.700	ug/L	0.538	1	56	80512	0	KED
Zn	66	72.234	ug/L	1.988	2	76	37591	2	KED
Zn	67	69.385	ug/L	2.358	3	13	6053	2	KED
As	75	6.729	ug/L	0.120	1	6	1882	2	KED
Y	89		ug/L			289124	555798	1	Standard
Kr	83		ug/L			80	93	15	Standard
In-1	115		ug/L			9102	8250	1	KED
Cd	111	0.205	ug/L	0.036	17	3	59	14	KED
Cd	114	0.201	ug/L	0.008	3	3	148	3	KED
In	115		ug/L			483935	457175	1	Standard
Ag	107	0.158	ug/L	0.011	6	106	2963	4	Standard
Tb	159		ug/L			1215870	1169613	1	Standard
Pb	208	17.401	ug/L	0.356	2	593	1354118	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0394-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 00:45:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26020	48601	1	Standard
Cl	37		ug/L			5354462	4935993	1	Standard
> Sc	45		ug/L			474891	597632	0	Standard
Cr	52	33.122	ug/L	0.681	2	16718	783864	2	Standard
Cr	53	33.216	ug/L	0.263	0	209	90350	1	Standard
> Ge	72		ug/L			34387	35435	0	KED
Ni	60	39.350	ug/L	0.293	0	146	57043	0	KED
Ni	62	40.295	ug/L	1.947	4	34	9438	4	KED
Cu	63	63.349	ug/L	0.797	1	114	257791	0	KED
Cu	65	63.365	ug/L	0.413	0	56	129986	0	KED
Zn	66	148.326	ug/L	2.782	1	76	78015	1	KED
Zn	67	142.840	ug/L	3.177	2	13	12594	1	KED
As	75	31.071	ug/L	0.250	0	6	8768	0	KED
Y	89		ug/L			289124	547371	1	Standard
Kr	83		ug/L			80	101	19	Standard
> In-1	115		ug/L			9102	8061	1	KED
Cd	111	26.327	ug/L	0.355	1	3	7077	0	KED
Cd	114	26.084	ug/L	0.234	0	3	18397	0	KED
> In	115		ug/L			483935	462261	3	Standard
Ag	107	23.022	ug/L	0.722	3	106	420627	1	Standard
> Tb	159		ug/L			1215870	1183072	2	Standard
Pb	208	42.609	ug/L	1.288	3	593	3352146	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0394-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 00:49:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26020	46411	1	Standard
Cl	37		ug/L			5354462	4981253	2	Standard
> Sc	45		ug/L			474891	598298	0	Standard
Cr	52	34.836	ug/L	0.644	1	16718	824193	1	Standard
Cr	53	34.703	ug/L	0.257	0	209	94484	0	Standard
> Ge	72		ug/L			34387	35533	1	KED
Ni	60	40.749	ug/L	1.101	2	146	59211	1	KED
Ni	62	39.650	ug/L	0.941	2	34	9312	1	KED
Cu	63	64.949	ug/L	0.527	0	114	265008	0	KED
Cu	65	64.378	ug/L	1.459	2	56	132398	0	KED
Zn	66	152.981	ug/L	3.840	2	76	80663	0	KED
Zn	67	145.607	ug/L	1.496	1	13	12873	1	KED
As	75	31.337	ug/L	0.488	1	6	8867	0	KED
Y	89		ug/L			289124	568588	1	Standard
Kr	83		ug/L			80	104	10	Standard
> In-1	115		ug/L			9102	8259	0	KED
Cd	111	26.051	ug/L	0.507	1	3	7175	1	KED
Cd	114	25.728	ug/L	0.643	2	3	18590	2	KED
> In	115		ug/L			483935	453656	3	Standard
Ag	107	23.491	ug/L	0.141	0	106	421515	3	Standard
> Tb	159		ug/L			1215870	1169841	0	Standard
Pb	208	43.771	ug/L	0.529	1	593	3406521	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0394-PS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 00:53:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26020	62533	1	Standard
	Cl	**37**		ug/L			5354462	4934108	2	Standard
⌈>	**Sc**	**45**		ug/L			474891	590492	1	Standard
|	**Cr**	**52**	**33.483**	ug/L	0.351	1	16718	782677	1	Standard
⌊	**Cr**	**53**	**33.075**	ug/L	0.190	0	209	88887	1	Standard
⌈>	**Ge**	**72**		ug/L			34387	35069	1	KED
|	**Ni**	**60**	**39.626**	ug/L	0.227	0	146	56846	1	KED
|	**Ni**	**62**	**40.094**	ug/L	0.764	1	34	9294	1	KED
|	**Cu**	**63**	**62.824**	ug/L	0.956	1	114	253007	1	KED
|	**Cu**	**65**	**62.856**	ug/L	0.962	1	56	127594	0	KED
|	**Zn**	**66**	**149.962**	ug/L	3.216	2	76	78051	1	KED
|	**Zn**	**67**	**146.738**	ug/L	0.314	0	13	12803	1	KED
⌊	**As**	**75**	**30.752**	ug/L	0.586	1	6	8587	0	KED
	Y	**89**		ug/L			289124	541476	2	Standard
	Kr	**83**		ug/L			80	93	26	Standard
⌈>	**In-1**	**115**		ug/L			9102	8259	1	KED
|	**Cd**	**111**	**25.784**	ug/L	0.434	1	3	7102	1	KED
⌊	**Cd**	**114**	**25.494**	ug/L	0.358	1	3	18424	2	KED
⌈>	**In**	**115**		ug/L			483935	453140	4	Standard
⌊	**Ag**	**107**	**24.844**	ug/L	0.718	2	106	444930	2	Standard
⌈>	**Tb**	**159**		ug/L			1215870	1152721	1	Standard
⌊	**Pb**	**208**	**43.412**	ug/L	0.381	0	593	3329211	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 00:58:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26020	28813	2	Standard
	Cl	**37**		ug/L			5354462	4934746	3	Standard
⌈>	**Sc**	**45**		ug/L			474891	462352	1	Standard
|	**Cr**	**52**	**0.002**	ug/L	0.006	248	16718	16319	0	Standard
⌊	**Cr**	**53**	**-0.040**	ug/L	0.002	5	209	120	2	Standard
⌈>	**Ge**	**72**		ug/L			34387	34406	1	KED
|	**Ni**	**60**	**-0.035**	ug/L	0.010	27	146	96	12	KED
|	**Ni**	**62**	**-0.067**	ug/L	0.016	24	34	19	20	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.002	117	114	108	7	KED
|	**Cu**	**65**	**-0.004**	ug/L	0.005	130	56	48	21	KED
|	**Zn**	**66**	**0.154**	ug/L	0.027	17	76	154	7	KED
|	**Zn**	**67**	**0.148**	ug/L	0.056	37	13	26	18	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.002	40	6	5	10	KED
	Y	**89**		ug/L			289124	280782	4	Standard
	Kr	**83**		ug/L			80	61	31	Standard
⌈>	**In-1**	**115**		ug/L			9102	8223	0	KED
|	**Cd**	**111**	**0.005**	ug/L	0.011	225	3	4	65	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.006	164	3	5	66	KED
⌈>	**In**	**115**		ug/L			483935	465580	1	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.000	5	106	180	3	Standard
⌈>	**Tb**	**159**		ug/L			1215870	1152163	1	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.001	12	593	1001	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 01:02:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26020	29765	2	Standard
	Cl	**37**		ug/L			5354462	5423142	2	Standard
⌈>	**Sc**	**45**		ug/L			474891	475419	2	Standard
|	**Cr**	**52**	**49.583**	ug/L	1.303	2	16718	924780	0	Standard
⌊	**Cr**	**53**	**48.714**	ug/L	0.959	1	209	105276	0	Standard
⌈>	**Ge**	**72**		ug/L			34387	34948	1	KED
|	**Ni**	**60**	**51.474**	ug/L	0.216	0	146	73545	0	KED
|	**Ni**	**62**	**52.086**	ug/L	0.081	0	34	12023	1	KED
|	**Cu**	**63**	**52.037**	ug/L	0.165	0	114	208878	1	KED
|	**Cu**	**65**	**52.209**	ug/L	0.927	1	56	105640	2	KED
|	**Zn**	**66**	**51.929**	ug/L	0.738	1	76	26987	1	KED
|	**Zn**	**67**	**51.867**	ug/L	1.004	1	13	4518	0	KED
⌊	**As**	**75**	**50.014**	ug/L	0.252	0	6	13918	1	KED
	Y	**89**		ug/L			289124	278534	0	Standard
	Kr	**83**		ug/L			80	47	6	Standard
⌈>	**In-1**	**115**		ug/L			9102	8235	1	KED
|	**Cd**	**111**	**51.734**	ug/L	0.941	1	3	14205	1	KED
⌊	**Cd**	**114**	**50.276**	ug/L	1.178	2	3	36220	1	KED
⌈>	**In**	**115**		ug/L			483935	458655	3	Standard
⌊	**Ag**	**107**	**48.434**	ug/L	1.768	3	106	877862	0	Standard
⌈>	**Tb**	**159**		ug/L			1215870	1159096	0	Standard
⌊	**Pb**	**208**	**52.724**	ug/L	0.383	0	593	4065529	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 01:10:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26020	27590	3	Standard
	Cl	**37**		ug/L			5354462	5166354	2	Standard
⌈>	**Sc**	**45**		ug/L			474891	465586	0	Standard
|	**Cr**	**52**	**0.004**	ug/L	0.032	758	16718	16465	3	Standard
⌊	**Cr**	**53**	**-0.038**	ug/L	0.004	11	209	124	7	Standard
⌈>	**Ge**	**72**		ug/L			34387	36189	1	KED
|	**Ni**	**60**	**-0.021**	ug/L	0.012	55	146	122	12	KED
|	**Ni**	**62**	**-0.061**	ug/L	0.029	47	34	22	30	KED
|	**Cu**	**63**	**-0.013**	ug/L	0.002	17	114	64	16	KED
|	**Cu**	**65**	**-0.014**	ug/L	0.006	43	56	31	40	KED
|	**Zn**	**66**	**-0.057**	ug/L	0.024	42	76	49	27	KED
|	**Zn**	**67**	**-0.072**	ug/L	0.064	89	13	8	70	KED
⌊	**As**	**75**	**-0.009**	ug/L	0.006	66	6	4	40	KED
	Y	**89**		ug/L			289124	273907	2	Standard
	Kr	**83**		ug/L			80	53	16	Standard
⌈>	**In-1**	**115**		ug/L			9102	8502	0	KED
|	**Cd**	**111**	**0.008**	ug/L	0.012	157	3	5	61	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.003	184	3	4	45	KED
⌈>	**In**	**115**		ug/L			483935	447992	3	Standard
⌊	**Ag**	**107**	**0.007**	ug/L	0.000	5	106	220	6	Standard
⌈>	**Tb**	**159**		ug/L			1215870	1142721	1	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	51	593	484	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0659-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 01:14:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26020	40979	1	Standard
	Cl	37		ug/L			5354462	5066161	2	Standard
⌈>	Sc	45		ug/L			474891	464373	1	Standard
|	Cr	52	0.084	ug/L	0.012	14	16718	17844	2	Standard
⌊	Cr	53	-0.011	ug/L	0.007	61	209	181	8	Standard
⌈>	Ge	72		ug/L			34387	35042	2	KED
|	Ni	60	-0.056	ug/L	0.005	9	146	68	12	KED
|	Ni	62	-0.085	ug/L	0.025	29	34	15	36	KED
|	Cu	63	0.013	ug/L	0.006	46	114	168	12	KED
|	Cu	65	0.011	ug/L	0.006	58	56	80	16	KED
|	Zn	66	0.237	ug/L	0.036	15	76	200	8	KED
|	Zn	67	0.230	ug/L	0.051	22	13	34	14	KED
⌊	As	75	-0.006	ug/L	0.001	21	6	4	10	KED
	Y	89		ug/L			289124	274892	2	Standard
	Kr	83		ug/L			80	49	13	Standard
⌈>	In-1	115		ug/L			9102	8384	2	KED
|	Cd	111	0.007	ug/L	0.004	61	3	5	21	KED
⌊	Cd	114	0.006	ug/L	0.004	75	3	7	40	KED
⌈>	In	115		ug/L			483935	455927	0	Standard
⌊	Ag	107	0.001	ug/L	0.001	127	106	120	22	Standard
⌈>	Tb	159		ug/L			1215870	1146225	3	Standard
⌊	Pb	208	0.002	ug/L	0.001	51	593	716	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0659-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 01:18:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26020	43212	2	Standard
	Cl	37		ug/L			5354462	5169624	3	Standard
>	Sc	45		ug/L			474891	474979	1	Standard
	Cr	52	25.233	ug/L	0.185	0	16718	478548	1	Standard
	Cr	53	24.929	ug/L	0.430	1	209	53939	1	Standard
>	Ge	72		ug/L			34387	35892	0	KED
	Ni	60	26.021	ug/L	0.328	1	146	38258	1	KED
	Ni	62	25.879	ug/L	0.572	2	34	6153	1	KED
	Cu	63	27.042	ug/L	0.102	0	114	111533	1	KED
	Cu	65	27.004	ug/L	0.403	1	56	56148	2	KED
	Zn	66	84.393	ug/L	1.225	1	76	44999	2	KED
	Zn	67	78.237	ug/L	0.809	1	13	6993	0	KED
	As	75	24.720	ug/L	0.314	1	6	7068	1	KED
	Y	89		ug/L			289124	274758	3	Standard
	Kr	83		ug/L			80	65	6	Standard
>	In-1	115		ug/L			9102	8164	1	KED
	Cd	111	26.899	ug/L	0.228	0	3	7323	0	KED
	Cd	114	26.252	ug/L	0.503	1	3	18749	1	KED
>	In	115		ug/L			483935	453297	2	Standard
	Ag	107	25.561	ug/L	0.306	1	106	458197	1	Standard
>	Tb	159		ug/L			1215870	1151041	1	Standard
	Pb	208	26.523	ug/L	0.413	1	593	2030976	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0754-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 01:23:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26020	42999	1	Standard
	Cl	37		ug/L			5354462	5077607	1	Standard
⌈>	Sc	45		ug/L			474891	474587	1	Standard
|	Cr	52	0.049	ug/L	0.027	54	16718	17601	1	Standard
⌊	Cr	53	-0.015	ug/L	0.005	33	209	176	4	Standard
⌈>	Ge	72		ug/L			34387	35503	1	KED
|	Ni	60	-0.055	ug/L	0.009	16	146	71	17	KED
|	Ni	62	-0.097	ug/L	0.029	29	34	13	51	KED
|	Cu	63	0.035	ug/L	0.009	24	114	259	12	KED
|	Cu	65	0.034	ug/L	0.007	21	56	127	12	KED
|	Zn	66	0.126	ug/L	0.052	41	76	144	18	KED
|	Zn	67	0.125	ug/L	0.074	58	13	25	24	KED
⌊	As	75	-0.007	ug/L	0.008	117	6	4	47	KED
	Y	89		ug/L			289124	274227	0	Standard
	Kr	83		ug/L			80	48	35	Standard
⌈>	In-1	115		ug/L			9102	8200	3	KED
|	Cd	111	-0.002	ug/L	0.002	88	3	2	21	KED
⌊	Cd	114	0.001	ug/L	0.003	394	3	4	56	KED
⌈>	In	115		ug/L			483935	456331	1	Standard
⌊	Ag	107	0.004	ug/L	0.001	19	106	177	10	Standard
⌈>	Tb	159		ug/L			1215870	1149148	0	Standard
⌊	Pb	208	0.005	ug/L	0.000	4	593	959	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0754-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 01:27:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26020	44082	1	Standard
	Cl	37		ug/L			5354462	5083497	0	Standard
>	Sc	45		ug/L			474891	449705	9	Standard
	Cr	52	27.763	ug/L	2.646	9	16718	494127	0	Standard
	Cr	53	27.346	ug/L	2.637	9	209	55672	0	Standard
>	Ge	72		ug/L			34387	35592	2	KED
	Ni	60	27.604	ug/L	0.289	1	146	40231	1	KED
	Ni	62	27.474	ug/L	0.902	3	34	6473	1	KED
	Cu	63	28.327	ug/L	0.755	2	114	115816	1	KED
	Cu	65	28.652	ug/L	0.233	0	56	59064	1	KED
	Zn	66	89.894	ug/L	2.720	3	76	47508	2	KED
	Zn	67	84.316	ug/L	2.064	2	13	7471	1	KED
	As	75	26.011	ug/L	0.495	1	6	7372	0	KED
	Y	89		ug/L			289124	263370	7	Standard
	Kr	83		ug/L			80	63	14	Standard
>	In-1	115		ug/L			9102	8256	0	KED
	Cd	111	27.231	ug/L	0.504	1	3	7498	1	KED
	Cd	114	27.029	ug/L	0.155	0	3	19525	0	KED
>	In	115		ug/L			483935	433018	8	Standard
	Ag	107	27.933	ug/L	2.709	9	106	475856	1	Standard
>	Tb	159		ug/L			1215870	1088144	9	Standard
	Pb	208	29.318	ug/L	2.332	7	593	2112388	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0326-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 01:32:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26020	59962	2	Standard
Cl	37		ug/L			5354462	5017977	2	Standard
> Sc	45		ug/L			474891	603860	1	Standard
Cr	52	13.765	ug/L	0.193	1	16718	341535	0	Standard
Cr	53	13.576	ug/L	0.176	1	209	37464	0	Standard
> Ge	72		ug/L			34387	35179	0	KED
Ni	60	14.767	ug/L	0.378	2	146	21343	2	KED
Ni	62	14.484	ug/L	0.518	3	34	3390	2	KED
Cu	63	30.148	ug/L	0.260	0	114	121855	0	KED
Cu	65	30.334	ug/L	0.639	2	56	61803	1	KED
Zn	66	61.331	ug/L	0.904	1	76	32070	1	KED
Zn	67	59.524	ug/L	0.823	1	13	5218	1	KED
As	75	7.181	ug/L	0.214	2	6	2016	2	KED
Y	89		ug/L			289124	549424	2	Standard
Kr	83		ug/L			80	102	3	Standard
> In-1	115		ug/L			9102	8177	2	KED
Cd	111	0.183	ug/L	0.013	6	3	53	7	KED
Cd	114	0.143	ug/L	0.015	10	3	105	8	KED
> In	115		ug/L			483935	453255	2	Standard
Ag	107	0.118	ug/L	0.007	5	106	2215	3	Standard
> Tb	159		ug/L			1215870	1144981	1	Standard
Pb	208	10.765	ug/L	0.169	1	593	820266	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0326-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 01:36:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26020	49769	2	Standard
Cl	37		ug/L			5354462	4898396	3	Standard
> Sc	45		ug/L			474891	614877	0	Standard
Cr	52	13.885	ug/L	0.294	2	16718	350639	1	Standard
Cr	53	14.136	ug/L	0.100	0	209	39712	0	Standard
> Ge	72		ug/L			34387	34776	2	KED
Ni	60	15.778	ug/L	0.395	2	146	22528	1	KED
Ni	62	16.120	ug/L	0.301	1	34	3726	0	KED
Cu	63	37.025	ug/L	0.956	2	114	147864	0	KED
Cu	65	36.352	ug/L	1.120	3	56	73180	1	KED
Zn	66	105.271	ug/L	2.813	2	76	54344	1	KED
Zn	67	103.096	ug/L	2.415	2	13	8922	0	KED
As	75	7.951	ug/L	0.118	1	6	2206	0	KED
Y	89		ug/L			289124	604384	2	Standard
Kr	83		ug/L			80	101	2	Standard
> In-1	115		ug/L			9102	7855	2	KED
Cd	111	0.356	ug/L	0.089	24	3	95	22	KED
Cd	114	0.357	ug/L	0.038	10	3	248	9	KED
> In	115		ug/L			483935	455229	0	Standard
Ag	107	0.332	ug/L	0.004	1	106	6077	1	Standard
> Tb	159		ug/L			1215870	1146764	2	Standard
Pb	208	24.559	ug/L	0.368	1	593	1873566	0	Standard

23A0326

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~32A0326~~10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 01:41:05

MB 4/27/23

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26020	55402	1	Standard
	Cl	37		ug/L			5354462	4953260	3	Standard
>	Sc	45		ug/L			474891	590473	1	Standard
	Cr	52	14.307	ug/L	0.299	2	16718	346325	1	Standard
	Cr	53	14.183	ug/L	0.056	0	209	38265	1	Standard
>	Ge	72		ug/L			34387	34815	1	KED
	Ni	60	15.345	ug/L	0.239	1	146	21943	0	KED
	Ni	62	15.467	ug/L	0.563	3	34	3580	2	KED
	Cu	63	36.379	ug/L	1.232	3	114	145449	1	KED
	Cu	65	36.235	ug/L	0.107	0	56	73056	1	KED
	Zn	66	80.153	ug/L	1.036	1	76	41451	0	KED
	Zn	67	75.807	ug/L	1.147	1	13	6574	3	KED
	As	75	6.942	ug/L	0.069	1	6	1929	0	KED
	Y	89		ug/L			289124	554626	0	Standard
	Kr	83		ug/L			80	106	10	Standard
>	In-1	115		ug/L			9102	7952	1	KED
	Cd	111	0.174	ug/L	0.016	9	3	49	7	KED
	Cd	114	0.189	ug/L	0.030	15	3	134	16	KED
>	In	115		ug/L			483935	457900	1	Standard
	Ag	107	0.124	ug/L	0.005	3	106	2353	3	Standard
>	Tb	159		ug/L			1215870	1156337	0	Standard
	Pb	208	13.842	ug/L	0.120	0	593	1065246	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0326-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 01:45:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26020	54867	2	Standard
	Cl	37		ug/L			5354462	4905422	2	Standard
>	Sc	45		ug/L			474891	601505	0	Standard
	Cr	52	13.625	ug/L	0.188	1	16718	337014	1	Standard
	Cr	53	13.738	ug/L	0.164	1	209	37766	1	Standard
>	Ge	72		ug/L			34387	35652	2	KED
	Ni	60	14.091	ug/L	0.264	1	146	20643	0	KED
	Ni	62	14.171	ug/L	0.610	4	34	3361	1	KED
	Cu	63	30.760	ug/L	0.793	2	114	125952	0	KED
	Cu	65	31.094	ug/L	0.793	2	56	64183	1	KED
	Zn	66	66.082	ug/L	0.968	1	76	35009	1	KED
	Zn	67	62.019	ug/L	2.043	3	13	5507	0	KED
	As	75	5.870	ug/L	0.069	1	6	1671	1	KED
	Y	89		ug/L			289124	549064	2	Standard
	Kr	83		ug/L			80	107	7	Standard
>	In-1	115		ug/L			9102	8052	3	KED
	Cd	111	0.174	ug/L	0.033	18	3	49	16	KED
	Cd	114	0.176	ug/L	0.007	3	3	127	7	KED
>	In	115		ug/L			483935	457001	1	Standard
	Ag	107	0.126	ug/L	0.005	4	106	2372	2	Standard
>	Tb	159		ug/L			1215870	1166852	1	Standard
	Pb	208	12.186	ug/L	0.150	1	593	946337	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0326-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 01:49:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26020	52212	3	Standard
Cl	37		ug/L			5354462	4897302	2	Standard
Sc	45		ug/L			474891	609390	2	Standard
Cr	52	14.448	ug/L	0.112	0	16718	360721	1	Standard
Cr	53	14.451	ug/L	0.197	1	209	40225	1	Standard
Ge	72		ug/L			34387	35091	0	KED
Ni	60	15.115	ug/L	0.141	0	146	21788	0	KED
Ni	62	15.253	ug/L	0.449	2	34	3561	3	KED
Cu	63	38.911	ug/L	0.116	0	114	156855	1	KED
Cu	65	39.370	ug/L	0.689	1	56	79995	1	KED
Zn	66	104.697	ug/L	1.916	1	76	54559	2	KED
Zn	67	100.441	ug/L	0.511	0	13	8774	0	KED
As	75	8.206	ug/L	0.062	0	6	2298	1	KED
Y	89		ug/L			289124	570748	2	Standard
Kr	83		ug/L			80	97	9	Standard
In-1	115		ug/L			9102	8027	1	KED
Cd	111	0.309	ug/L	0.022	6	3	85	7	KED
Cd	114	0.265	ug/L	0.014	5	3	189	6	KED
In	115		ug/L			483935	459117	1	Standard
Ag	107	0.183	ug/L	0.003	1	106	3422	1	Standard
Tb	159		ug/L			1215870	1146645	0	Standard
Pb	208	20.027	ug/L	0.145	0	593	1528124	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLA
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 01:54:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26020	28798	3	Standard
	Cl	**37**		ug/L			5354462	4875184	2	Standard
⎡>	**Sc**	**45**		ug/L			474891	467610	1	Standard
⎢	**Cr**	**52**	**-0.045**	ug/L	0.034	75	16718	15647	2	Standard
⎣	**Cr**	**53**	**-0.037**	ug/L	0.003	8	209	127	6	Standard
⎡>	**Ge**	**72**		ug/L			34387	34862	0	KED
⎢	**Ni**	**60**	**-0.027**	ug/L	0.007	24	146	109	8	KED
⎢	**Ni**	**62**	**-0.066**	ug/L	0.017	26	34	20	19	KED
⎢	**Cu**	**63**	**0.001**	ug/L	0.007	679	114	120	23	KED
⎢	**Cu**	**65**	**-0.005**	ug/L	0.004	82	56	46	18	KED
⎢	**Zn**	**66**	**0.125**	ug/L	0.025	19	76	141	8	KED
⎢	**Zn**	**67**	**0.130**	ug/L	0.011	8	13	25	4	KED
⎣	**As**	**75**	**-0.011**	ug/L	0.005	45	6	3	42	KED
	Y	**89**		ug/L			289124	275583	3	Standard
	Kr	**83**		ug/L			80	64	10	Standard
⎡>	**In-1**	**115**		ug/L			9102	8162	0	KED
⎢	**Cd**	**111**	**0.008**	ug/L	0.004	47	3	5	20	KED
⎣	**Cd**	**114**	**-0.004**	ug/L	0.002	34	3	0	298	KED
⎡>	**In**	**115**		ug/L			483935	460987	2	Standard
⎣	**Ag**	**107**	**-0.003**	ug/L	0.000	17	106	51	16	Standard
⎡>	**Tb**	**159**		ug/L			1215870	1150231	0	Standard
⎣	**Pb**	**208**	**0.005**	ug/L	0.000	5	593	928	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 01:58:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26020	29291	2	Standard
	Cl	**37**		ug/L			5354462	5364509	1	Standard
⌈>	**Sc**	**45**		ug/L			474891	472851	2	Standard
|	**Cr**	**52**	**48.224**	ug/L	1.444	2	16718	895011	1	Standard
⌊	**Cr**	**53**	**47.968**	ug/L	0.539	1	209	103126	1	Standard
⌈>	**Ge**	**72**		ug/L			34387	34891	1	KED
|	**Ni**	**60**	**50.691**	ug/L	0.548	1	146	72306	0	KED
|	**Ni**	**62**	**50.981**	ug/L	1.179	2	34	11747	1	KED
|	**Cu**	**63**	**51.734**	ug/L	1.103	2	114	207277	0	KED
|	**Cu**	**65**	**51.291**	ug/L	0.823	1	56	103599	0	KED
|	**Zn**	**66**	**51.903**	ug/L	0.919	1	76	26927	0	KED
|	**Zn**	**67**	**50.982**	ug/L	1.312	2	13	4434	2	KED
⌊	**As**	**75**	**50.023**	ug/L	0.316	0	6	13896	0	KED
	Y	**89**		ug/L			289124	277247	3	Standard
	Kr	**83**		ug/L			80	55	15	Standard
⌈>	**In-1**	**115**		ug/L			9102	8240	1	KED
|	**Cd**	**111**	**50.681**	ug/L	0.961	1	3	13922	0	KED
⌊	**Cd**	**114**	**49.679**	ug/L	0.919	1	3	35809	1	KED
⌈>	**In**	**115**		ug/L			483935	447325	1	Standard
⌊	**Ag**	**107**	**49.328**	ug/L	0.636	1	106	872527	0	Standard
⌈>	**Tb**	**159**		ug/L			1215870	1169179	0	Standard
⌊	**Pb**	**208**	**52.023**	ug/L	1.040	1	593	4046176	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 02:06:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26020	26904	2	Standard
	Cl	**37**		ug/L			5354462	5188028	3	Standard
⌈>	**Sc**	**45**		ug/L			474891	460114	0	Standard
|	**Cr**	**52**	**0.016**	ug/L	0.015	92	16718	16479	2	Standard
⌊	**Cr**	**53**	**-0.046**	ug/L	0.009	20	209	107	18	Standard
⌈>	**Ge**	**72**		ug/L			34387	35147	1	KED
|	**Ni**	**60**	**-0.027**	ug/L	0.008	30	146	111	8	KED
|	**Ni**	**62**	**-0.055**	ug/L	0.025	45	34	22	25	KED
|	**Cu**	**63**	**-0.017**	ug/L	0.002	14	114	48	19	KED
|	**Cu**	**65**	**-0.011**	ug/L	0.002	14	56	36	10	KED
|	**Zn**	**66**	**-0.061**	ug/L	0.017	27	76	46	20	KED
|	**Zn**	**67**	**-0.047**	ug/L	0.027	57	13	10	21	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.008	227	6	5	40	KED
	Y	**89**		ug/L			289124	270190	0	Standard
	Kr	**83**		ug/L			80	50	22	Standard
⌈>	**In-1**	**115**		ug/L			9102	8388	2	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.007	477	3	2	66	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.005	89	3	8	50	KED
⌈>	**In**	**115**		ug/L			483935	445981	1	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.001	28	106	190	15	Standard
⌈>	**Tb**	**159**		ug/L			1215870	1146541	0	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	39	593	474	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0402-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 02:10:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26020	45875	1	Standard
	Cl	37		ug/L			5354462	5072646	1	Standard
>	Sc	45		ug/L			474891	473838	1	Standard
	Cr	52	0.122	ug/L	0.035	28	16718	18898	2	Standard
	Cr	53	0.051	ug/L	0.019	37	209	318	12	Standard
>	Ge	72		ug/L			34387	34863	1	KED
	Ni	60	-0.045	ug/L	0.011	25	146	84	20	KED
	Ni	62	-0.077	ug/L	0.026	33	34	17	34	KED
	Cu	63	0.044	ug/L	0.007	16	114	290	8	KED
	Cu	65	0.043	ug/L	0.008	18	56	144	12	KED
	Zn	66	0.324	ug/L	0.050	15	76	245	11	KED
	Zn	67	0.268	ug/L	0.125	46	13	37	29	KED
	As	75	-0.002	ug/L	0.003	164	6	5	16	KED
	Y	89		ug/L			289124	279899	3	Standard
	Kr	83		ug/L			80	48	37	Standard
>	In-1	115		ug/L			9102	8219	1	KED
	Cd	111	0.004	ug/L	0.007	205	3	4	48	KED
	Cd	114	-0.005	ug/L	0.000	3	3	0	44	KED
>	In	115		ug/L			483935	461447	1	Standard
	Ag	107	0.005	ug/L	0.009	157	106	202	79	Standard
>	Tb	159		ug/L			1215870	1165962	1	Standard
	Pb	208	0.006	ug/L	0.008	134	593	1046	61	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0402-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 02:14:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26020	44029	1	Standard
	Cl	37		ug/L			5354462	5135797	2	Standard
>	Sc	45		ug/L			474891	466034	1	Standard
	Cr	52	26.345	ug/L	0.253	0	16718	489496	0	Standard
	Cr	53	25.916	ug/L	0.345	1	209	55007	0	Standard
>	Ge	72		ug/L			34387	35387	1	KED
	Ni	60	26.888	ug/L	0.196	0	146	38972	1	KED
	Ni	62	27.299	ug/L	0.732	2	34	6396	1	KED
	Cu	63	28.492	ug/L	0.942	3	114	115853	3	KED
	Cu	65	28.214	ug/L	1.034	3	56	57835	4	KED
	Zn	66	83.678	ug/L	0.627	0	76	43985	1	KED
	Zn	67	78.236	ug/L	0.525	0	13	6894	1	KED
	As	75	25.168	ug/L	0.202	0	6	7094	0	KED
	Y	89		ug/L			289124	273775	1	Standard
	Kr	83		ug/L			80	65	19	Standard
>	In-1	115		ug/L			9102	8381	2	KED
	Cd	111	26.070	ug/L	0.674	2	3	7285	0	KED
	Cd	114	26.034	ug/L	0.712	2	3	19085	0	KED
>	In	115		ug/L			483935	452742	1	Standard
	Ag	107	26.038	ug/L	0.800	3	106	466084	1	Standard
>	Tb	159		ug/L			1215870	1162549	2	Standard
	Pb	208	26.815	ug/L	0.625	2	593	2073553	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0326-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 02:19:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26020	47937	2	Standard
	Cl	**37**		ug/L			5354462	5071870	1	Standard
⌈>	**Sc**	**45**		ug/L			474891	551937	2	Standard
|	**Cr**	**52**	**12.123**	ug/L	0.246	2	16718	277233	2	Standard
⌊	**Cr**	**53**	**12.053**	ug/L	0.216	1	209	30425	1	Standard
⌈>	**Ge**	**72**		ug/L			34387	35559	2	KED
|	**Ni**	**60**	**9.909**	ug/L	0.363	3	146	14521	2	KED
|	**Ni**	**62**	**10.279**	ug/L	0.181	1	34	2442	1	KED
|	**Cu**	**63**	**20.759**	ug/L	0.491	2	114	84828	1	KED
|	**Cu**	**65**	**21.013**	ug/L	0.508	2	56	43282	0	KED
|	**Zn**	**66**	**44.029**	ug/L	0.618	1	76	23290	0	KED
|	**Zn**	**67**	**42.450**	ug/L	1.453	3	13	3764	1	KED
⌊	**As**	**75**	**4.859**	ug/L	0.080	1	6	1381	2	KED
	Y	**89**		ug/L			289124	472370	2	Standard
	Kr	**83**		ug/L			80	80	23	Standard
⌈>	**In-1**	**115**		ug/L			9102	8185	1	KED
|	**Cd**	**111**	**0.064**	ug/L	0.011	17	3	20	14	KED
⌊	**Cd**	**114**	**0.051**	ug/L	0.008	15	3	40	15	KED
⌈>	**In**	**115**		ug/L			483935	458600	3	Standard
⌊	**Ag**	**107**	**0.084**	ug/L	0.008	9	106	1614	7	Standard
⌈>	**Tb**	**159**		ug/L			1215870	1177226	0	Standard
⌊	**Pb**	**208**	**26.366**	ug/L	0.212	0	593	2065172	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0326-09
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 02:23:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26020	55289	2	Standard
	Cl	**37**		ug/L			5354462	4984510	2	Standard
⌈>	**Sc**	**45**		ug/L			474891	592167	2	Standard
|	**Cr**	**52**	**15.662**	ug/L	0.261	1	16718	378161	0	Standard
⌊	**Cr**	**53**	**15.430**	ug/L	0.212	1	209	41717	0	Standard
⌈>	**Ge**	**72**		ug/L			34387	35590	1	KED
|	**Ni**	**60**	**13.129**	ug/L	0.218	1	146	19217	2	KED
|	**Ni**	**62**	**13.272**	ug/L	0.363	2	34	3146	1	KED
|	**Cu**	**63**	**25.739**	ug/L	0.364	1	114	105265	0	KED
|	**Cu**	**65**	**26.073**	ug/L	0.169	0	56	53756	1	KED
|	**Zn**	**66**	**67.543**	ug/L	1.090	1	76	35725	1	KED
|	**Zn**	**67**	**63.242**	ug/L	2.374	3	13	5607	2	KED
⌊	**As**	**75**	**6.245**	ug/L	0.176	2	6	1775	2	KED
	Y	**89**		ug/L			289124	536746	0	Standard
	Kr	**83**		ug/L			80	91	18	Standard
⌈>	**In-1**	**115**		ug/L			9102	8280	2	KED
|	**Cd**	**111**	**0.431**	ug/L	0.088	20	3	121	17	KED
⌊	**Cd**	**114**	**0.414**	ug/L	0.042	10	3	302	8	KED
⌈>	**In**	**115**		ug/L			483935	464614	3	Standard
⌊	**Ag**	**107**	**0.170**	ug/L	0.011	6	106	3225	2	Standard
⌈>	**Tb**	**159**		ug/L			1215870	1192905	1	Standard
⌊	**Pb**	**208**	**38.163**	ug/L	0.246	0	593	3028666	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0418-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 02:28:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26020	42765	3	Standard
	Cl	**37**		ug/L			5354462	4973160	3	Standard
⌈>	**Sc**	**45**		ug/L			474891	529878	2	Standard
|	**Cr**	**52**	**8.520**	ug/L	0.183	2	16718	192586	1	Standard
⌊	**Cr**	**53**	**8.549**	ug/L	0.373	4	209	20781	3	Standard
⌈>	**Ge**	**72**		ug/L			34387	36104	0	KED
|	**Ni**	**60**	**7.704**	ug/L	0.134	1	146	11501	1	KED
|	**Ni**	**62**	**7.916**	ug/L	0.192	2	34	1918	2	KED
|	**Cu**	**63**	**11.960**	ug/L	0.363	3	114	49679	2	KED
|	**Cu**	**65**	**11.944**	ug/L	0.286	2	56	25011	2	KED
|	**Zn**	**66**	**27.346**	ug/L	0.296	1	76	14721	1	KED
|	**Zn**	**67**	**25.960**	ug/L	0.792	3	13	2344	3	KED
⌊	**As**	**75**	**2.186**	ug/L	0.008	0	6	634	0	KED
	Y	**89**		ug/L			289124	444957	4	Standard
	Kr	**83**		ug/L			80	85	8	Standard
⌈>	**In-1**	**115**		ug/L			9102	8357	5	KED
|	**Cd**	**111**	**0.042**	ug/L	0.008	19	3	14	13	KED
⌊	**Cd**	**114**	**0.024**	ug/L	0.007	27	3	21	27	KED
⌈>	**In**	**115**		ug/L			483935	455054	3	Standard
⌊	**Ag**	**107**	**0.036**	ug/L	0.002	5	106	749	8	Standard
⌈>	**Tb**	**159**		ug/L			1215870	1162098	1	Standard
⌊	**Pb**	**208**	**2.460**	ug/L	0.003	0	593	190698	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0418-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 02:32:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26020	45771	1	Standard
	Cl	**37**		ug/L			5354462	5076346	0	Standard
⌈>	**Sc**	**45**		ug/L			474891	531285	2	Standard
|	**Cr**	**52**	**9.959**	ug/L	0.171	1	16718	222534	1	Standard
⌊	**Cr**	**53**	**9.939**	ug/L	0.355	3	209	24182	0	Standard
⌈>	**Ge**	**72**		ug/L			34387	34997	1	KED
|	**Ni**	**60**	**10.371**	ug/L	0.200	1	146	14958	2	KED
|	**Ni**	**62**	**10.727**	ug/L	0.407	3	34	2508	5	KED
|	**Cu**	**63**	**31.667**	ug/L	0.635	2	114	127307	1	KED
|	**Cu**	**65**	**31.372**	ug/L	0.459	1	56	63578	0	KED
|	**Zn**	**66**	**56.618**	ug/L	1.285	2	76	29453	1	KED
|	**Zn**	**67**	**52.731**	ug/L	2.224	4	13	4598	2	KED
⌊	**As**	**75**	**3.544**	ug/L	0.003	0	6	993	1	KED
	Y	**89**		ug/L			289124	458899	1	Standard
	Kr	**83**		ug/L			80	82	8	Standard
⌈>	**In-1**	**115**		ug/L			9102	8213	0	KED
|	**Cd**	**111**	**0.069**	ug/L	0.016	23	3	21	19	KED
⌊	**Cd**	**114**	**0.050**	ug/L	0.006	11	3	39	10	KED
⌈>	**In**	**115**		ug/L			483935	456388	1	Standard
⌊	**Ag**	**107**	**0.062**	ug/L	0.004	6	106	1212	4	Standard
⌈>	**Tb**	**159**		ug/L			1215870	1155946	0	Standard
⌊	**Pb**	**208**	**15.378**	ug/L	0.042	0	593	1183021	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0418-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 02:37:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26020	49049	3	Standard
	Cl	**37**		ug/L			5354462	4988445	2	Standard
⌈>	**Sc**	**45**		ug/L			474891	558898	0	Standard
|	**Cr**	**52**	**11.705**	ug/L	0.125	1	16718	271773	0	Standard
⌊	**Cr**	**53**	**11.500**	ug/L	0.134	1	209	29415	1	Standard
⌈>	**Ge**	**72**		ug/L			34387	35795	2	KED
|	**Ni**	**60**	**11.969**	ug/L	0.345	2	146	17626	0	KED
|	**Ni**	**62**	**12.279**	ug/L	0.228	1	34	2931	3	KED
|	**Cu**	**63**	**23.350**	ug/L	0.775	3	114	96016	1	KED
|	**Cu**	**65**	**23.075**	ug/L	0.356	1	56	47847	1	KED
|	**Zn**	**66**	**84.378**	ug/L	1.281	1	76	44862	2	KED
|	**Zn**	**67**	**80.441**	ug/L	1.381	1	13	7169	0	KED
⌊	**As**	**75**	**4.931**	ug/L	0.141	2	6	1410	0	KED
	Y	**89**		ug/L			289124	489819	1	Standard
	Kr	**83**		ug/L			80	83	8	Standard
⌈>	**In-1**	**115**		ug/L			9102	8303	1	KED
|	**Cd**	**111**	**0.081**	ug/L	0.036	43	3	25	39	KED
⌊	**Cd**	**114**	**0.084**	ug/L	0.002	2	3	64	4	KED
⌈>	**In**	**115**		ug/L			483935	466016	2	Standard
⌊	**Ag**	**107**	**0.071**	ug/L	0.002	2	106	1412	3	Standard
⌈>	**Tb**	**159**		ug/L			1215870	1165812	2	Standard
⌊	**Pb**	**208**	**11.779**	ug/L	0.284	2	593	913679	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0418-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 02:41:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26020	48514	1	Standard
	Cl	**37**		ug/L			5354462	5024698	1	Standard
⌈>	**Sc**	**45**		ug/L			474891	535364	1	Standard
|	**Cr**	**52**	**11.852**	ug/L	0.034	0	16718	263379	1	Standard
⌊	**Cr**	**53**	**11.651**	ug/L	0.138	1	209	28538	1	Standard
⌈>	**Ge**	**72**		ug/L			34387	34992	0	KED
|	**Ni**	**60**	**11.689**	ug/L	0.057	0	146	16838	0	KED
|	**Ni**	**62**	**11.483**	ug/L	0.195	1	34	2681	1	KED
|	**Cu**	**63**	**27.568**	ug/L	0.438	1	114	110844	1	KED
|	**Cu**	**65**	**27.730**	ug/L	0.284	1	56	56204	0	KED
|	**Zn**	**66**	**70.399**	ug/L	1.105	1	76	36608	2	KED
|	**Zn**	**67**	**68.008**	ug/L	2.111	3	13	5928	3	KED
⌊	**As**	**75**	**3.627**	ug/L	0.199	5	6	1016	4	KED
	Y	**89**		ug/L			289124	475686	2	Standard
	Kr	**83**		ug/L			80	74	9	Standard
⌈>	**In-1**	**115**		ug/L			9102	8408	1	KED
|	**Cd**	**111**	**0.102**	ug/L	0.023	22	3	31	21	KED
⌊	**Cd**	**114**	**0.096**	ug/L	0.018	18	3	74	17	KED
⌈>	**In**	**115**		ug/L			483935	464964	0	Standard
⌊	**Ag**	**107**	**0.103**	ug/L	0.002	2	106	1995	2	Standard
⌈>	**Tb**	**159**		ug/L			1215870	1168236	1	Standard
⌊	**Pb**	**208**	**42.428**	ug/L	0.797	1	593	3297243	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0418-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 02:45:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26020	51471	2	Standard
	Cl	**37**		ug/L			5354462	5022993	2	Standard
⌈>	**Sc**	**45**		ug/L			474891	533089	1	Standard
|	**Cr**	**52**	**15.592**	ug/L	0.350	2	16718	339030	0	Standard
⌊	**Cr**	**53**	**15.654**	ug/L	0.628	4	209	38093	2	Standard
⌈>	**Ge**	**72**		ug/L			34387	35324	1	KED
|	**Ni**	**60**	**11.385**	ug/L	0.276	2	146	16554	0	KED
|	**Ni**	**62**	**11.525**	ug/L	0.462	4	34	2715	2	KED
|	**Cu**	**63**	**25.630**	ug/L	0.285	1	114	104031	0	KED
|	**Cu**	**65**	**25.747**	ug/L	0.496	1	56	52675	0	KED
|	**Zn**	**66**	**59.711**	ug/L	0.774	1	76	31353	1	KED
|	**Zn**	**67**	**55.778**	ug/L	1.457	2	13	4910	1	KED
⌊	**As**	**75**	**2.984**	ug/L	0.050	1	6	845	1	KED
	Y	**89**		ug/L			289124	424137	0	Standard
	Kr	**83**		ug/L			80	65	4	Standard
⌈>	**In-1**	**115**		ug/L			9102	8323	3	KED
|	**Cd**	**111**	**0.121**	ug/L	0.027	22	3	36	22	KED
⌊	**Cd**	**114**	**0.126**	ug/L	0.013	10	3	95	6	KED
⌈>	**In**	**115**		ug/L			483935	463903	2	Standard
⌊	**Ag**	**107**	**0.091**	ug/L	0.004	4	106	1761	1	Standard
⌈>	**Tb**	**159**		ug/L			1215870	1182176	1	Standard
⌊	**Pb**	**208**	**39.890**	ug/L	0.559	1	593	3136852	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLB
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 02:50:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26020	27712	2	Standard
	Cl	**37**		ug/L			5354462	4894544	1	Standard
⌈>	**Sc**	**45**		ug/L			474891	451342	1	Standard
|	**Cr**	**52**	**0.006**	ug/L	0.017	293	16718	15985	1	Standard
⌊	**Cr**	**53**	**-0.041**	ug/L	0.004	10	209	114	8	Standard
⌈>	**Ge**	**72**		ug/L			34387	35281	0	KED
|	**Ni**	**60**	**-0.030**	ug/L	0.001	3	146	106	1	KED
|	**Ni**	**62**	**-0.086**	ug/L	0.005	5	34	15	6	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.003	79	114	101	11	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.004	132	56	51	16	KED
|	**Zn**	**66**	**0.133**	ug/L	0.019	14	76	147	6	KED
|	**Zn**	**67**	**0.184**	ug/L	0.058	31	13	30	16	KED
⌊	**As**	**75**	**-0.007**	ug/L	0.006	88	6	4	36	KED
	Y	**89**		ug/L			289124	269353	2	Standard
	Kr	**83**		ug/L			80	53	25	Standard
⌈>	**In-1**	**115**		ug/L			9102	8408	0	KED
|	**Cd**	**111**	**0.012**	ug/L	0.010	82	3	6	42	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.009	121	3	9	73	KED
⌈>	**In**	**115**		ug/L			483935	444619	0	Standard
⌊	**Ag**	**107**	**-0.003**	ug/L	0.001	24	106	48	25	Standard
⌈>	**Tb**	**159**		ug/L			1215870	1122441	1	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.000	5	593	940	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 02:54:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26020	29140	2	Standard
	Cl	**37**		ug/L			5354462	5347339	1	Standard
⎡>	**Sc**	**45**		ug/L			474891	465488	1	Standard
⎢	**Cr**	**52**	**49.253**	ug/L	0.326	0	16718	899890	1	Standard
⎣	**Cr**	**53**	**48.449**	ug/L	0.592	1	209	102538	1	Standard
⎡>	**Ge**	**72**		ug/L			34387	35562	1	KED
⎢	**Ni**	**60**	**49.703**	ug/L	2.722	5	146	72235	4	KED
⎢	**Ni**	**62**	**49.078**	ug/L	1.675	3	34	11527	2	KED
⎢	**Cu**	**63**	**50.300**	ug/L	2.320	4	114	205371	3	KED
⎢	**Cu**	**65**	**51.234**	ug/L	2.562	5	56	105450	3	KED
⎢	**Zn**	**66**	**49.750**	ug/L	2.713	5	76	26302	4	KED
⎢	**Zn**	**67**	**51.039**	ug/L	2.233	4	13	4523	3	KED
⎣	**As**	**75**	**48.249**	ug/L	2.480	5	6	13656	3	KED
	Y	**89**		ug/L			289124	274074	1	Standard
	Kr	**83**		ug/L			80	58	19	Standard
⎡>	**In-1**	**115**		ug/L			9102	8303	0	KED
⎢	**Cd**	**111**	**50.601**	ug/L	0.678	1	3	14010	1	KED
⎣	**Cd**	**114**	**50.849**	ug/L	0.664	1	3	36939	1	KED
⎡>	**In**	**115**		ug/L			483935	442236	1	Standard
⎣	**Ag**	**107**	**48.673**	ug/L	0.987	2	106	851100	0	Standard
⎡>	**Tb**	**159**		ug/L			1215870	1135430	2	Standard
⎣	**Pb**	**208**	**52.464**	ug/L	1.591	3	593	3961205	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 03:01:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26020	26938	0	Standard
	Cl	**37**		ug/L			5354462	5194250	1	Standard
⌈>	**Sc**	**45**		ug/L			474891	458058	1	Standard
|	**Cr**	**52**	**0.006**	ug/L	0.028	447	16718	16232	2	Standard
⌊	**Cr**	**53**	**-0.047**	ug/L	0.003	6	209	104	5	Standard
⌈>	**Ge**	**72**		ug/L			34387	35101	0	KED
|	**Ni**	**60**	**-0.034**	ug/L	0.007	19	146	99	9	KED
|	**Ni**	**62**	**-0.066**	ug/L	0.027	40	34	20	30	KED
|	**Cu**	**63**	**-0.015**	ug/L	0.003	19	114	55	21	KED
|	**Cu**	**65**	**-0.018**	ug/L	0.003	16	56	21	28	KED
|	**Zn**	**66**	**-0.073**	ug/L	0.004	5	76	40	4	KED
|	**Zn**	**67**	**-0.076**	ug/L	0.021	28	13	7	25	KED
⌊	**As**	**75**	**0.001**	ug/L	0.006	449	6	6	22	KED
	Y	**89**		ug/L			289124	267450	2	Standard
	Kr	**83**		ug/L			80	50	19	Standard
⌈>	**In-1**	**115**		ug/L			9102	8486	1	KED
|	**Cd**	**111**	**0.002**	ug/L	0.000	9	3	3	0	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.005	559	3	2	135	KED
⌈>	**In**	**115**		ug/L			483935	455822	2	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.001	25	106	183	11	Standard
⌈>	**Tb**	**159**		ug/L			1215870	1123140	0	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.001	42	593	459	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 03:06:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				26724	1	Standard
	Cl	**37**		ug/L				5151969	1	Standard
⌈>	**Sc**	**45**		ug/L				453223	2	Standard
|	**Cr**	**52**		ug/L				16290	1	Standard
⌊	**Cr**	**53**		ug/L				110	3	Standard
⌈>	**Ge**	**72**		ug/L				35046	0	KED
|	**Ni**	**60**		ug/L				104	12	KED
|	**Ni**	**62**		ug/L				17	16	KED
|	**Cu**	**63**		ug/L				50	32	KED
|	**Cu**	**65**		ug/L				24	7	KED
|	**Zn**	**66**		ug/L				45	19	KED
|	**Zn**	**67**		ug/L				5	57	KED
⌊	**As**	**75**		ug/L				4	14	KED
	Y	**89**		ug/L				264383	3	Standard
	Kr	**83**		ug/L				57	15	Standard
⌈>	**In-1**	**115**		ug/L				8211	0	KED
|	**Cd**	**111**		ug/L				8	53	KED
⌊	**Cd**	**114**		ug/L				5	67	KED
⌈>	**In**	**115**		ug/L				441019	1	Standard
⌊	**Ag**	**107**		ug/L				84	22	Standard
⌈>	**Tb**	**159**		ug/L				1096960	2	Standard
⌊	**Pb**	**208**		ug/L				408	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 03:10:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26724	29490	2	Standard
	Cl	**37**		ug/L			5151969	5472504	2	Standard
⌈>	**Sc**	**45**		ug/L			453223	467679	0	Standard
|	**Cr**	**52**	**49.357**	ug/L	0.705	1	16290	906342	1	Standard
⌊	**Cr**	**53**	**48.874**	ug/L	1.105	2	110	103830	1	Standard
⌈>	**Ge**	**72**		ug/L			35046	34753	1	KED
|	**Ni**	**60**	**51.397**	ug/L	1.848	3	104	72956	2	KED
|	**Ni**	**62**	**51.377**	ug/L	1.067	2	17	11773	0	KED
|	**Cu**	**63**	**50.799**	ug/L	1.591	3	50	202659	2	KED
|	**Cu**	**65**	**51.522**	ug/L	0.510	0	24	103627	0	KED
|	**Zn**	**66**	**51.595**	ug/L	0.969	1	45	26629	1	KED
|	**Zn**	**67**	**50.703**	ug/L	1.970	3	5	4384	3	KED
⌊	**As**	**75**	**50.273**	ug/L	1.404	2	4	13905	1	KED
	Y	**89**		ug/L			264383	278710	2	Standard
	Kr	**83**		ug/L			57	50	28	Standard
⌈>	**In-1**	**115**		ug/L			8211	7991	1	KED
|	**Cd**	**111**	**50.671**	ug/L	1.064	2	8	13508	2	KED
⌊	**Cd**	**114**	**50.626**	ug/L	0.090	0	5	35398	0	KED
⌈>	**In**	**115**		ug/L			441019	441687	2	Standard
⌊	**Ag**	**107**	**49.958**	ug/L	1.694	3	84	872191	1	Standard
⌈>	**Tb**	**159**		ug/L			1096960	1139751	1	Standard
⌊	**Pb**	**208**	**52.707**	ug/L	1.412	2	408	3995140	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 03:18:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26724	27230	2	Standard
	Cl	**37**		ug/L			5151969	5276386	0	Standard
⌈>	**Sc**	**45**		ug/L			453223	464883	0	Standard
|	**Cr**	**52**	**-0.014**	ug/L	0.021	151	16290	16463	2	Standard
⌊	**Cr**	**53**	**-0.007**	ug/L	0.005	71	110	99	10	Standard
⌈>	**Ge**	**72**		ug/L			35046	34551	2	KED
|	**Ni**	**60**	**0.013**	ug/L	0.011	83	104	121	14	KED
|	**Ni**	**62**	**0.029**	ug/L	0.009	31	17	24	9	KED
|	**Cu**	**63**	**0.000**	ug/L	0.003	1551	50	50	21	KED
|	**Cu**	**65**	**-0.000**	ug/L	0.001	622	24	24	9	KED
|	**Zn**	**66**	**0.000**	ug/L	0.007	7767	45	44	6	KED
|	**Zn**	**67**	**0.023**	ug/L	0.021	91	5	7	25	KED
⌊	**As**	**75**	**0.004**	ug/L	0.005	108	4	6	19	KED
	Y	**89**		ug/L			264383	274511	1	Standard
	Kr	**83**		ug/L			57	58	6	Standard
⌈>	**In-1**	**115**		ug/L			8211	8418	1	KED
|	**Cd**	**111**	**-0.012**	ug/L	0.014	116	8	5	75	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.002	2739	5	5	34	KED
⌈>	**In**	**115**		ug/L			441019	459027	1	Standard
⌊	**Ag**	**107**	**0.006**	ug/L	0.000	5	84	205	4	Standard
⌈>	**Tb**	**159**		ug/L			1096960	1145283	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	44	408	482	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0124-02
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, April 28, 2023 03:22:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26724	38423	2	Standard
	Cl	**37**		ug/L			5151969	5466503	2	Standard
⌈>	**Sc**	**45**		ug/L			453223	446220	5	Standard
|	**Cr**	**52**	**1.144**	ug/L	0.084	7	16290	35673	2	Standard
⌊	**Cr**	**53**	**1.144**	ug/L	0.024	2	110	2426	6	Standard
⌈>	**Ge**	**72**		ug/L			35046	35433	1	KED
|	**Ni**	**60**	**0.208**	ug/L	0.032	15	104	405	10	KED
|	**Ni**	**62**	**0.239**	ug/L	0.052	21	17	73	15	KED
|	**Cu**	**63**	**5.264**	ug/L	0.042	0	50	21463	1	KED
|	**Cu**	**65**	**5.273**	ug/L	0.090	1	24	10836	2	KED
|	**Zn**	**66**	**47.133**	ug/L	1.919	4	45	24799	2	KED
|	**Zn**	**67**	**43.562**	ug/L	0.949	2	5	3841	2	KED
⌊	**As**	**75**	**0.215**	ug/L	0.028	12	4	65	10	KED
	Y	**89**		ug/L			264383	259708	5	Standard
	Kr	**83**		ug/L			57	54	32	Standard
⌈>	**In-1**	**115**		ug/L			8211	8229	0	KED
|	**Cd**	**111**	**-0.016**	ug/L	0.009	56	8	3	66	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.002	129	5	6	26	KED
⌈>	**In**	**115**		ug/L			441019	436584	3	Standard
⌊	**Ag**	**107**	**0.006**	ug/L	0.002	41	84	182	23	Standard
⌈>	**Tb**	**159**		ug/L			1096960	1103223	2	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.001	9	408	881	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0510-DUP2
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, April 28, 2023 03:26:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26724	39355	1	Standard
	Cl	37		ug/L			5151969	5490228	3	Standard
⌈>	Sc	45		ug/L			453223	472467	1	Standard
|	Cr	52	1.056	ug/L	0.034	3	16290	36212	0	Standard
⌊	Cr	53	1.063	ug/L	0.038	3	110	2393	2	Standard
⌈>	Ge	72		ug/L			35046	35151	1	KED
|	Ni	60	0.180	ug/L	0.007	3	104	363	3	KED
|	Ni	62	0.230	ug/L	0.028	12	17	71	10	KED
|	Cu	63	5.109	ug/L	0.027	0	50	20667	0	KED
|	Cu	65	5.162	ug/L	0.044	0	24	10525	1	KED
|	Zn	66	44.675	ug/L	0.837	1	45	23332	2	KED
|	Zn	67	41.889	ug/L	2.173	5	5	3663	4	KED
⌊	As	75	0.187	ug/L	0.023	12	4	57	11	KED
	Y	89		ug/L			264383	274976	1	Standard
	Kr	83		ug/L			57	52	13	Standard
⌈>	In-1	115		ug/L			8211	8057	0	KED
|	Cd	111	-0.005	ug/L	0.004	68	8	6	14	KED
⌊	Cd	114	-0.006	ug/L	0.003	45	5	1	151	KED
⌈>	In	115		ug/L			441019	459931	0	Standard
⌊	Ag	107	0.002	ug/L	0.000	7	84	132	1	Standard
⌈>	Tb	159		ug/L			1096960	1156435	1	Standard
⌊	Pb	208	0.005	ug/L	0.001	18	408	799	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0510-MS2
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, April 28, 2023 03:31:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26724	39443	0	Standard
	Cl	37		ug/L			5151969	5559199	3	Standard
⌈>	Sc	45		ug/L			453223	464997	1	Standard
|	Cr	52	6.703	ug/L	0.274	4	16290	136777	2	Standard
⌊	Cr	53	6.762	ug/L	0.207	3	110	14379	1	Standard
⌈>	Ge	72		ug/L			35046	34781	0	KED
|	Ni	60	5.957	ug/L	0.073	1	104	8557	1	KED
|	Ni	62	6.193	ug/L	0.203	3	17	1436	3	KED
|	Cu	63	11.447	ug/L	0.177	1	50	45751	1	KED
|	Cu	65	11.612	ug/L	0.242	2	24	23395	2	KED
|	Zn	66	67.354	ug/L	0.811	1	45	34783	1	KED
|	Zn	67	62.957	ug/L	0.499	0	5	5448	0	KED
⌊	As	75	5.913	ug/L	0.032	0	4	1641	0	KED
	Y	89		ug/L			264383	272554	0	Standard
	Kr	83		ug/L			57	44	9	Standard
⌈>	In-1	115		ug/L			8211	8075	2	KED
|	Cd	111	5.836	ug/L	0.378	6	8	1577	4	KED
⌊	Cd	114	5.856	ug/L	0.368	6	5	4137	4	KED
⌈>	In	115		ug/L			441019	450680	2	Standard
⌊	Ag	107	5.437	ug/L	0.144	2	84	96942	0	Standard
⌈>	Tb	159		ug/L			1096960	1130933	0	Standard
⌊	Pb	208	5.876	ug/L	0.075	1	408	442433	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0418-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 03:35:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26724	43421	2	Standard
	Cl	**37**		ug/L			5151969	5276954	1	Standard
⌈>	**Sc**	**45**		ug/L			453223	542956	2	Standard
|	**Cr**	**52**	**13.815**	ug/L	0.293	2	16290	308478	0	Standard
⌊	**Cr**	**53**	**13.613**	ug/L	0.402	2	110	33661	0	Standard
⌈>	**Ge**	**72**		ug/L			35046	34836	1	KED
|	**Ni**	**60**	**17.092**	ug/L	0.280	1	104	24394	1	KED
|	**Ni**	**62**	**17.321**	ug/L	0.861	4	17	3989	3	KED
|	**Cu**	**63**	**33.208**	ug/L	0.162	0	50	132847	1	KED
|	**Cu**	**65**	**33.335**	ug/L	0.788	2	24	67211	1	KED
|	**Zn**	**66**	**109.695**	ug/L	1.218	1	45	56705	0	KED
|	**Zn**	**67**	**100.160**	ug/L	2.264	2	5	8676	1	KED
⌊	**As**	**75**	**5.263**	ug/L	0.136	2	4	1464	3	KED
	Y	**89**		ug/L			264383	469146	1	Standard
	Kr	**83**		ug/L			57	67	11	Standard
⌈>	**In-1**	**115**		ug/L			8211	8110	2	KED
|	**Cd**	**111**	**0.083**	ug/L	0.029	35	8	30	25	KED
⌊	**Cd**	**114**	**0.105**	ug/L	0.018	17	5	79	16	KED
⌈>	**In**	**115**		ug/L			441019	454928	1	Standard
⌊	**Ag**	**107**	**0.050**	ug/L	0.004	8	84	993	7	Standard
⌈>	**Tb**	**159**		ug/L			1096960	1139678	0	Standard
⌊	**Pb**	**208**	**23.344**	ug/L	0.465	1	408	1770193	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0418-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 03:40:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26724	49597	2	Standard
	Cl	37		ug/L			5151969	5196412	2	Standard
>	Sc	45		ug/L			453223	590129	1	Standard
	Cr	52	21.980	ug/L	0.391	1	16290	521049	1	Standard
	Cr	53	21.927	ug/L	0.385	1	110	58858	0	Standard
>	Ge	72		ug/L			35046	34438	0	KED
	Ni	60	22.111	ug/L	0.661	2	104	31170	2	KED
	Ni	62	22.258	ug/L	0.479	2	17	5065	1	KED
	Cu	63	48.214	ug/L	0.881	1	50	190633	1	KED
	Cu	65	47.365	ug/L	0.320	0	24	94415	1	KED
	Zn	66	427.693	ug/L	3.194	0	45	218449	0	KED
	Zn	67	402.872	ug/L	9.224	2	5	34485	1	KED
	As	75	12.874	ug/L	0.105	0	4	3533	1	KED
	Y	89		ug/L			264383	541930	1	Standard
	Kr	83		ug/L			57	88	18	Standard
>	In-1	115		ug/L			8211	8208	1	KED
	Cd	111	0.620	ug/L	0.082	13	8	177	11	KED
	Cd	114	0.658	ug/L	0.078	11	5	478	12	KED
>	In	115		ug/L			441019	457981	2	Standard
	Ag	107	0.422	ug/L	0.013	3	84	7720	1	Standard
>	Tb	159		ug/L			1096960	1158647	0	Standard
	Pb	208	49.602	ug/L	0.891	1	408	3823474	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0418-09
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 03:44:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26724	53033	3	Standard
	Cl	**37**		ug/L			5151969	5065662	2	Standard
⌈>	**Sc**	**45**		ug/L			453223	542719	1	Standard
|	**Cr**	**52**	**8.705**	ug/L	0.079	0	16290	201559	0	Standard
⌊	**Cr**	**53**	**8.738**	ug/L	0.123	1	110	21651	0	Standard
⌈>	**Ge**	**72**		ug/L			35046	34451	1	KED
|	**Ni**	**60**	**9.965**	ug/L	0.172	1	104	14107	0	KED
|	**Ni**	**62**	**9.773**	ug/L	0.576	5	17	2234	5	KED
|	**Cu**	**63**	**15.433**	ug/L	0.228	1	50	61080	1	KED
|	**Cu**	**65**	**15.431**	ug/L	0.219	1	24	30786	1	KED
|	**Zn**	**66**	**50.956**	ug/L	1.166	2	45	26074	2	KED
|	**Zn**	**67**	**48.156**	ug/L	1.224	2	5	4128	1	KED
⌊	**As**	**75**	**5.804**	ug/L	0.064	1	4	1596	0	KED
	Y	**89**		ug/L			264383	452388	1	Standard
	Kr	**83**		ug/L			57	78	5	Standard
⌈>	**In-1**	**115**		ug/L			8211	8038	2	KED
|	**Cd**	**111**	**0.040**	ug/L	0.005	11	8	18	7	KED
⌊	**Cd**	**114**	**0.028**	ug/L	0.015	51	5	25	42	KED
⌈>	**In**	**115**		ug/L			441019	456542	4	Standard
⌊	**Ag**	**107**	**0.037**	ug/L	0.002	6	84	760	2	Standard
⌈>	**Tb**	**159**		ug/L			1096960	1173995	0	Standard
⌊	**Pb**	**208**	**4.042**	ug/L	0.062	1	408	316070	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0418-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 03:48:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26724	44959	3	Standard
	Cl	**37**		ug/L			5151969	4972065	1	Standard
⌈>	**Sc**	**45**		ug/L			453223	523563	1	Standard
|	**Cr**	**52**	**9.785**	ug/L	0.165	1	16290	216245	2	Standard
⌊	**Cr**	**53**	**9.998**	ug/L	0.111	1	110	23880	0	Standard
⌈>	**Ge**	**72**		ug/L			35046	34558	0	KED
|	**Ni**	**60**	**9.085**	ug/L	0.141	1	104	12912	0	KED
|	**Ni**	**62**	**9.303**	ug/L	0.191	2	17	2134	2	KED
|	**Cu**	**63**	**14.445**	ug/L	0.192	1	50	57351	1	KED
|	**Cu**	**65**	**14.425**	ug/L	0.140	0	24	28870	1	KED
|	**Zn**	**66**	**31.677**	ug/L	0.247	0	45	16277	1	KED
|	**Zn**	**67**	**30.320**	ug/L	0.275	0	5	2609	0	KED
⌊	**As**	**75**	**1.900**	ug/L	0.102	5	4	527	5	KED
	Y	**89**		ug/L			264383	459360	0	Standard
	Kr	**83**		ug/L			57	75	8	Standard
⌈>	**In-1**	**115**		ug/L			8211	8015	4	KED
|	**Cd**	**111**	**0.013**	ug/L	0.015	113	8	11	30	KED
⌊	**Cd**	**114**	**0.034**	ug/L	0.008	22	5	28	15	KED
⌈>	**In**	**115**		ug/L			441019	463699	3	Standard
⌊	**Ag**	**107**	**0.040**	ug/L	0.003	8	84	814	4	Standard
⌈>	**Tb**	**159**		ug/L			1096960	1169387	0	Standard
⌊	**Pb**	**208**	**2.140**	ug/L	0.014	0	408	166899	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0418-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 03:53:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26724	54013	1	Standard
	Cl	**37**		ug/L			5151969	4944114	2	Standard
⌈>	**Sc**	**45**		ug/L			453223	523371	1	Standard
|	**Cr**	**52**	**11.119**	ug/L	0.160	1	16290	243033	0	Standard
⌊	**Cr**	**53**	**11.094**	ug/L	0.224	2	110	26471	0	Standard
⌈>	**Ge**	**72**		ug/L			35046	34694	1	KED
|	**Ni**	**60**	**8.359**	ug/L	0.259	3	104	11932	1	KED
|	**Ni**	**62**	**7.882**	ug/L	0.387	4	17	1817	3	KED
|	**Cu**	**63**	**16.960**	ug/L	0.539	3	50	67567	1	KED
|	**Cu**	**65**	**17.172**	ug/L	0.302	1	24	34492	0	KED
|	**Zn**	**66**	**41.142**	ug/L	0.984	2	45	21204	0	KED
|	**Zn**	**67**	**39.796**	ug/L	0.305	0	5	3437	1	KED
⌊	**As**	**75**	**2.358**	ug/L	0.019	0	4	656	1	KED
	Y	**89**		ug/L			264383	440438	1	Standard
	Kr	**83**		ug/L			57	74	25	Standard
⌈>	**In-1**	**115**		ug/L			8211	8025	1	KED
|	**Cd**	**111**	**0.048**	ug/L	0.008	17	8	20	9	KED
⌊	**Cd**	**114**	**0.072**	ug/L	0.006	8	5	55	7	KED
⌈>	**In**	**115**		ug/L			441019	452239	1	Standard
⌊	**Ag**	**107**	**0.074**	ug/L	0.005	6	84	1412	5	Standard
⌈>	**Tb**	**159**		ug/L			1096960	1157893	1	Standard
⌊	**Pb**	**208**	**9.547**	ug/L	0.086	0	408	735720	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0418-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 03:57:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26724	49323	1	Standard
	Cl	**37**		ug/L			5151969	4975031	2	Standard
⌈>	**Sc**	**45**		ug/L			453223	522366	1	Standard
|	**Cr**	**52**	**11.246**	ug/L	0.027	0	16290	245152	1	Standard
⌊	**Cr**	**53**	**11.144**	ug/L	0.174	1	110	26545	1	Standard
⌈>	**Ge**	**72**		ug/L			35046	33950	2	KED
|	**Ni**	**60**	**5.359**	ug/L	0.124	2	104	7522	2	KED
|	**Ni**	**62**	**5.731**	ug/L	0.141	2	17	1299	4	KED
|	**Cu**	**63**	**26.673**	ug/L	0.852	3	50	103943	1	KED
|	**Cu**	**65**	**26.341**	ug/L	0.729	2	24	51750	1	KED
|	**Zn**	**66**	**28.790**	ug/L	0.140	0	45	14536	2	KED
|	**Zn**	**67**	**27.316**	ug/L	0.917	3	5	2309	1	KED
⌊	**As**	**75**	**3.510**	ug/L	0.093	2	4	952	0	KED
	Y	**89**		ug/L			264383	419189	1	Standard
	Kr	**83**		ug/L			57	76	6	Standard
⌈>	**In-1**	**115**		ug/L			8211	8089	2	KED
|	**Cd**	**111**	**0.009**	ug/L	0.015	165	8	10	36	KED
⌊	**Cd**	**114**	**0.033**	ug/L	0.007	20	5	28	16	KED
⌈>	**In**	**115**		ug/L			441019	444771	2	Standard
⌊	**Ag**	**107**	**0.027**	ug/L	0.002	7	84	553	5	Standard
⌈>	**Tb**	**159**		ug/L			1096960	1174496	0	Standard
⌊	**Pb**	**208**	**6.179**	ug/L	0.015	0	408	483165	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLD
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 04:02:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26724	27936	1	Standard
	Cl	**37**		ug/L			5151969	4849616	2	Standard
⌈>	**Sc**	**45**		ug/L			453223	450715	0	Standard
|	**Cr**	**52**	**-0.031**	ug/L	0.015	48	16290	15662	1	Standard
⌊	**Cr**	**53**	**0.008**	ug/L	0.012	149	110	126	19	Standard
⌈>	**Ge**	**72**		ug/L			35046	33446	1	KED
|	**Ni**	**60**	**-0.007**	ug/L	0.020	268	104	89	31	KED
|	**Ni**	**62**	**-0.028**	ug/L	0.027	96	17	10	53	KED
|	**Cu**	**63**	**0.013**	ug/L	0.001	6	50	97	3	KED
|	**Cu**	**65**	**0.018**	ug/L	0.007	37	24	57	21	KED
|	**Zn**	**66**	**0.232**	ug/L	0.011	4	45	158	2	KED
|	**Zn**	**67**	**0.171**	ug/L	0.081	47	5	19	33	KED
⌊	**As**	**75**	**0.001**	ug/L	0.012	815	4	5	60	KED
	Y	**89**		ug/L			264383	262945	0	Standard
	Kr	**83**		ug/L			57	48	18	Standard
⌈>	**In-1**	**115**		ug/L			8211	7697	2	KED
|	**Cd**	**111**	**-0.017**	ug/L	0.005	32	8	3	41	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.004	1155	5	4	45	KED
⌈>	**In**	**115**		ug/L			441019	439046	4	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.000	19	84	47	10	Standard
⌈>	**Tb**	**159**		ug/L			1096960	1096711	1	Standard
⌊	**Pb**	**208**	**0.011**	ug/L	0.008	75	408	1212	49	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 04:06:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26724	28398	1	Standard
	Cl	**37**		ug/L			5151969	5362388	2	Standard
⌈>	**Sc**	**45**		ug/L			453223	454194	1	Standard
|	**Cr**	**52**	**49.819**	ug/L	0.180	0	16290	888289	1	Standard
⌊	**Cr**	**53**	**49.410**	ug/L	0.997	2	110	101933	0	Standard
⌈>	**Ge**	**72**		ug/L			35046	34289	2	KED
|	**Ni**	**60**	**49.925**	ug/L	3.362	6	104	69879	4	KED
|	**Ni**	**62**	**50.599**	ug/L	3.304	6	17	11433	4	KED
|	**Cu**	**63**	**50.552**	ug/L	3.144	6	50	198852	4	KED
|	**Cu**	**65**	**50.455**	ug/L	1.014	2	24	100108	0	KED
|	**Zn**	**66**	**49.746**	ug/L	1.977	3	45	25323	1	KED
|	**Zn**	**67**	**50.913**	ug/L	2.648	5	5	4341	3	KED
⌊	**As**	**75**	**48.850**	ug/L	2.563	5	4	13325	3	KED
	Y	**89**		ug/L			264383	269910	2	Standard
	Kr	**83**		ug/L			57	61	23	Standard
⌈>	**In-1**	**115**		ug/L			8211	7899	0	KED
|	**Cd**	**111**	**51.112**	ug/L	0.491	0	8	13467	0	KED
⌊	**Cd**	**114**	**50.400**	ug/L	0.620	1	5	34833	0	KED
⌈>	**In**	**115**		ug/L			441019	432441	1	Standard
⌊	**Ag**	**107**	**49.864**	ug/L	0.577	1	84	852685	0	Standard
⌈>	**Tb**	**159**		ug/L			1096960	1112317	1	Standard
⌊	**Pb**	**208**	**52.502**	ug/L	0.378	0	408	3885221	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 04:13:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26724	26737	2	Standard
	Cl	**37**		ug/L			5151969	5109675	2	Standard
⌈>	**Sc**	**45**		ug/L			453223	461211	1	Standard
|	**Cr**	**52**	**-0.029**	ug/L	0.013	44	16290	16066	1	Standard
⌊	**Cr**	**53**	**-0.005**	ug/L	0.004	80	110	103	6	Standard
⌈>	**Ge**	**72**		ug/L			35046	34794	1	KED
|	**Ni**	**60**	**-0.046**	ug/L	0.001	1	104	38	5	KED
|	**Ni**	**62**	**-0.033**	ug/L	0.013	39	17	10	28	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.003	184	50	43	29	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.004	221	24	20	36	KED
|	**Zn**	**66**	**-0.029**	ug/L	0.014	47	45	29	22	KED
|	**Zn**	**67**	**0.001**	ug/L	0.059	9420	5	5	88	KED
⌊	**As**	**75**	**0.000**	ug/L	0.006	3835	4	4	31	KED
	Y	**89**		ug/L			264383	269121	0	Standard
	Kr	**83**		ug/L			57	55	16	Standard
⌈>	**In-1**	**115**		ug/L			8211	8268	2	KED
|	**Cd**	**111**	**-0.011**	ug/L	0.002	23	8	5	10	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.003	105	5	3	58	KED
⌈>	**In**	**115**		ug/L			441019	445278	0	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.001	22	84	153	9	Standard
⌈>	**Tb**	**159**		ug/L			1096960	1133295	1	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	20	408	320	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0076-01RE1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 04:18:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26724	40898	0	Standard
	Cl	**37**		ug/L			5151969	5045402	3	Standard
⌈>	**Sc**	**45**		ug/L			453223	474341	2	Standard
|	**Cr**	**52**	**0.179**	ug/L	0.029	16	16290	20305	0	Standard
⌊	**Cr**	**53**	**0.182**	ug/L	0.003	1	110	507	1	Standard
⌈>	**Ge**	**72**		ug/L			35046	34922	0	KED
|	**Ni**	**60**	**0.035**	ug/L	0.014	39	104	154	13	KED
|	**Ni**	**62**	**0.039**	ug/L	0.052	133	17	26	44	KED
|	**Cu**	**63**	**11.738**	ug/L	0.095	0	50	47106	0	KED
|	**Cu**	**65**	**11.678**	ug/L	0.151	1	24	23623	1	KED
|	**Zn**	**66**	**6.505**	ug/L	0.014	0	45	3413	0	KED
|	**Zn**	**67**	**5.868**	ug/L	0.346	5	5	514	5	KED
⌊	**As**	**75**	**0.009**	ug/L	0.005	63	4	7	20	KED
	Y	**89**		ug/L			264383	274475	2	Standard
	Kr	**83**		ug/L			57	45	4	Standard
⌈>	**In-1**	**115**		ug/L			8211	8122	1	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.009	215	8	6	34	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.002	132	5	6	20	KED
⌈>	**In**	**115**		ug/L			441019	450203	0	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	27	84	145	10	Standard
⌈>	**Tb**	**159**		ug/L			1096960	1148419	1	Standard
⌊	**Pb**	**208**	**0.420**	ug/L	0.012	2	408	32475	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0004-02
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 04:23:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26724	51686	0	Standard
	Cl	**37**		ug/L			5151969	5793454	2	Standard
⌈>	**Sc**	**45**		ug/L			453223	496329	2	Standard
|	**Cr**	**52**	**0.468**	ug/L	0.025	5	16290	26773	0	Standard
⌊	**Cr**	**53**	**1.577**	ug/L	0.045	2	110	3671	2	Standard
⌈>	**Ge**	**72**		ug/L			35046	33841	1	KED
|	**Ni**	**60**	**0.747**	ug/L	0.050	6	104	1132	5	KED
|	**Ni**	**62**	**0.741**	ug/L	0.065	8	17	182	6	KED
|	**Cu**	**63**	**1.330**	ug/L	0.020	1	50	5216	2	KED
|	**Cu**	**65**	**1.407**	ug/L	0.087	6	24	2779	5	KED
|	**Zn**	**66**	**4.764**	ug/L	0.115	2	45	2433	1	KED
|	**Zn**	**67**	**4.695**	ug/L	0.351	7	5	400	8	KED
⌊	**As**	**75**	**0.636**	ug/L	0.050	7	4	176	8	KED
	Y	**89**		ug/L			264383	281365	2	Standard
	Kr	**83**		ug/L			57	41	30	Standard
⌈>	**In-1**	**115**		ug/L			8211	7890	3	KED
|	**Cd**	**111**	**-0.011**	ug/L	0.009	77	8	5	47	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.008	324	5	7	79	KED
⌈>	**In**	**115**		ug/L			441019	436615	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	18	84	119	2	Standard
⌈>	**Tb**	**159**		ug/L			1096960	1147775	0	Standard
⌊	**Pb**	**208**	**0.143**	ug/L	0.002	1	408	11331	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0004-04
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 04:27:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26724	52990	2	Standard
	Cl	**37**		ug/L			5151969	6929736	0	Standard
⌈>	**Sc**	**45**		ug/L			453223	487499	1	Standard
|	**Cr**	**52**	**0.463**	ug/L	0.008	1	16290	26223	1	Standard
⌊	**Cr**	**53**	**2.805**	ug/L	0.041	1	110	6323	1	Standard
⌈>	**Ge**	**72**		ug/L			35046	32564	0	KED
|	**Ni**	**60**	**0.719**	ug/L	0.035	4	104	1052	5	KED
|	**Ni**	**62**	**0.696**	ug/L	0.080	11	17	165	10	KED
|	**Cu**	**63**	**0.716**	ug/L	0.009	1	50	2722	1	KED
|	**Cu**	**65**	**0.696**	ug/L	0.026	3	24	1335	3	KED
|	**Zn**	**66**	**6.401**	ug/L	0.358	5	45	3131	4	KED
|	**Zn**	**67**	**6.335**	ug/L	0.528	8	5	518	8	KED
⌊	**As**	**75**	**0.567**	ug/L	0.039	6	4	151	6	KED
	Y	**89**		ug/L			264383	272193	1	Standard
	Kr	**83**		ug/L			57	57	6	Standard
⌈>	**In-1**	**115**		ug/L			8211	7547	2	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.010	254	8	6	37	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.006	727	5	4	84	KED
⌈>	**In**	**115**		ug/L			441019	439178	0	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.001	499	84	81	12	Standard
⌈>	**Tb**	**159**		ug/L			1096960	1133575	2	Standard
⌊	**Pb**	**208**	**0.055**	ug/L	0.002	3	408	4578	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0003-04
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 04:31:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26724	46927	1	Standard
	Cl	37		ug/L			5151969	5240521	2	Standard
>	Sc	45		ug/L			453223	477465	0	Standard
	Cr	52	1.153	ug/L	0.028	2	16290	38380	1	Standard
	Cr	53	1.338	ug/L	0.011	0	110	3015	1	Standard
>	Ge	72		ug/L			35046	34242	0	KED
	Ni	60	1.855	ug/L	0.033	1	104	2692	1	KED
	Ni	62	2.004	ug/L	0.063	3	17	469	3	KED
	Cu	63	57.947	ug/L	0.622	1	50	227810	0	KED
	Cu	65	58.761	ug/L	0.426	0	24	116454	0	KED
	Zn	66	48.589	ug/L	1.446	2	45	24715	3	KED
	Zn	67	45.469	ug/L	0.693	1	5	3875	1	KED
	As	75	0.422	ug/L	0.022	5	4	119	5	KED
	Y	89		ug/L			264383	273068	1	Standard
	Kr	83		ug/L			57	46	18	Standard
>	In-1	115		ug/L			8211	7960	1	KED
	Cd	111	-0.005	ug/L	0.010	200	8	6	37	KED
	Cd	114	0.013	ug/L	0.010	77	5	14	47	KED
>	In	115		ug/L			441019	453661	1	Standard
	Ag	107	0.000	ug/L	0.001	178	84	95	17	Standard
>	Tb	159		ug/L			1096960	1158134	0	Standard
	Pb	208	0.095	ug/L	0.001	1	408	7767	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0003-06
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 04:36:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26724	47956	1	Standard
	Cl	37		ug/L			5151969	5080531	2	Standard
>	Sc	45		ug/L			453223	470606	2	Standard
	Cr	52	1.155	ug/L	0.047	4	16290	37842	0	Standard
	Cr	53	1.334	ug/L	0.019	1	110	2964	3	Standard
>	Ge	72		ug/L			35046	33626	0	KED
	Ni	60	2.312	ug/L	0.054	2	104	3272	3	KED
	Ni	62	2.527	ug/L	0.076	2	17	576	2	KED
	Cu	63	87.939	ug/L	2.570	2	50	339465	2	KED
	Cu	65	87.224	ug/L	0.980	1	24	169753	1	KED
	Zn	66	77.964	ug/L	0.781	1	45	38921	1	KED
	Zn	67	70.686	ug/L	1.369	1	5	5912	1	KED
	As	75	1.263	ug/L	0.050	3	4	342	4	KED
	Y	89		ug/L			264383	280637	0	Standard
	Kr	83		ug/L			57	39	5	Standard
>	In-1	115		ug/L			8211	7896	1	KED
	Cd	111	-0.005	ug/L	0.004	74	8	6	14	KED
	Cd	114	0.010	ug/L	0.008	80	5	12	45	KED
>	In	115		ug/L			441019	452247	0	Standard
	Ag	107	0.002	ug/L	0.001	48	84	128	16	Standard
>	Tb	159		ug/L			1096960	1165527	2	Standard
	Pb	208	0.074	ug/L	0.004	5	408	6164	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0003-08
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 04:40:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26724	48934	1	Standard
	Cl	37		ug/L			5151969	5339107	3	Standard
>	Sc	45		ug/L			453223	474971	1	Standard
	Cr	52	0.939	ug/L	0.017	1	16290	34251	0	Standard
	Cr	53	0.993	ug/L	0.017	1	110	2256	3	Standard
>	Ge	72		ug/L			35046	34291	1	KED
	Ni	60	1.580	ug/L	0.066	4	104	2311	3	KED
	Ni	62	1.719	ug/L	0.096	5	17	405	5	KED
	Cu	63	58.052	ug/L	0.674	1	50	228558	1	KED
	Cu	65	58.916	ug/L	1.512	2	24	116915	1	KED
	Zn	66	27.774	ug/L	0.672	2	45	14164	1	KED
	Zn	67	26.421	ug/L	0.717	2	5	2257	2	KED
	As	75	0.408	ug/L	0.002	0	4	116	0	KED
	Y	89		ug/L			264383	269853	1	Standard
	Kr	83		ug/L			57	46	10	Standard
>	In-1	115		ug/L			8211	7964	1	KED
	Cd	111	0.065	ug/L	0.040	61	8	25	42	KED
	Cd	114	0.090	ug/L	0.033	36	5	68	32	KED
>	In	115		ug/L			441019	447527	1	Standard
	Ag	107	-0.000	ug/L	0.001	535	84	81	22	Standard
>	Tb	159		ug/L			1096960	1139548	2	Standard
	Pb	208	0.016	ug/L	0.001	8	408	1639	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0003-02
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 04:45:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26724	48424	2	Standard
	Cl	37		ug/L			5151969	5407440	1	Standard
⌈>	Sc	45		ug/L			453223	480629	0	Standard
|	Cr	52	1.201	ug/L	0.030	2	16290	39530	2	Standard
⌊	Cr	53	1.323	ug/L	0.037	2	110	3003	2	Standard
⌈>	Ge	72		ug/L			35046	33981	1	KED
|	Ni	60	1.995	ug/L	0.022	1	104	2867	2	KED
|	Ni	62	1.992	ug/L	0.157	7	17	463	9	KED
|	Cu	63	60.831	ug/L	1.498	2	50	237340	3	KED
|	Cu	65	61.498	ug/L	1.535	2	24	120942	2	KED
|	Zn	66	50.662	ug/L	0.789	1	45	25571	2	KED
|	Zn	67	47.360	ug/L	0.307	0	5	4005	2	KED
⌊	As	75	0.469	ug/L	0.026	5	4	131	4	KED
	Y	89		ug/L			264383	271078	1	Standard
	Kr	83		ug/L			57	46	16	Standard
⌈>	In-1	115		ug/L			8211	8042	3	KED
|	Cd	111	-0.012	ug/L	0.004	33	8	4	20	KED
⌊	Cd	114	0.005	ug/L	0.012	242	5	8	97	KED
⌈>	In	115		ug/L			441019	452672	0	Standard
⌊	Ag	107	0.000	ug/L	0.000	57	84	93	3	Standard
⌈>	Tb	159		ug/L			1096960	1155513	0	Standard
⌊	Pb	208	0.106	ug/L	0.001	1	408	8595	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0402-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 04:49:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26724	47478	2	Standard
	Cl	37		ug/L			5151969	5465949	2	Standard
⌈>	Sc	45		ug/L			453223	483625	0	Standard
|	Cr	52	1.288	ug/L	0.050	3	16290	41388	2	Standard
⌊	Cr	53	1.412	ug/L	0.073	5	110	3216	4	Standard
⌈>	Ge	72		ug/L			35046	34577	1	KED
|	Ni	60	1.854	ug/L	0.043	2	104	2718	2	KED
|	Ni	62	2.023	ug/L	0.057	2	17	478	1	KED
|	Cu	63	61.275	ug/L	0.808	1	50	243232	1	KED
|	Cu	65	60.258	ug/L	0.635	1	24	120577	0	KED
|	Zn	66	49.298	ug/L	1.708	3	45	25312	2	KED
|	Zn	67	46.039	ug/L	2.028	4	5	3963	5	KED
⌊	As	75	0.441	ug/L	0.007	1	4	126	2	KED
	Y	89		ug/L			264383	272220	3	Standard
	Kr	83		ug/L			57	43	22	Standard
⌈>	In-1	115		ug/L			8211	7832	3	KED
|	Cd	111	0.008	ug/L	0.003	35	8	9	5	KED
⌊	Cd	114	0.010	ug/L	0.009	97	5	11	56	KED
⌈>	In	115		ug/L			441019	453108	2	Standard
⌊	Ag	107	0.001	ug/L	0.001	167	84	96	18	Standard
⌈>	Tb	159		ug/L			1096960	1154266	0	Standard
⌊	Pb	208	0.108	ug/L	0.002	1	408	8758	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0402-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 04:54:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26724	47835	0	Standard
	Cl	37		ug/L			5151969	5571366	2	Standard
⌈>	Sc	45		ug/L			453223	477780	1	Standard
|	Cr	52	25.580	ug/L	0.757	2	16290	488018	1	Standard
⌊	Cr	53	25.632	ug/L	0.248	0	110	55688	1	Standard
⌈>	Ge	72		ug/L			35046	34009	1	KED
|	Ni	60	28.605	ug/L	0.295	1	104	39791	0	KED
|	Ni	62	28.857	ug/L	0.731	2	17	6479	2	KED
|	Cu	63	87.350	ug/L	0.661	0	50	341049	1	KED
|	Cu	65	86.223	ug/L	0.914	1	24	169707	1	KED
|	Zn	66	131.780	ug/L	1.361	1	45	66497	0	KED
|	Zn	67	119.613	ug/L	0.504	0	5	10115	0	KED
⌊	As	75	25.703	ug/L	0.307	1	4	6961	0	KED
	Y	89		ug/L			264383	275434	2	Standard
	Kr	83		ug/L			57	45	19	Standard
⌈>	In-1	115		ug/L			8211	7794	3	KED
|	Cd	111	26.082	ug/L	1.186	4	8	6778	1	KED
⌊	Cd	114	25.568	ug/L	0.950	3	5	17425	0	KED
⌈>	In	115		ug/L			441019	452453	0	Standard
⌊	Ag	107	24.820	ug/L	0.351	1	84	444153	1	Standard
⌈>	Tb	159		ug/L			1096960	1154443	1	Standard
⌊	Pb	208	26.962	ug/L	0.529	1	408	2070578	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 04:58:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26724	28735	0	Standard
	Cl	**37**		ug/L			5151969	5627366	2	Standard
⌈>	**Sc**	**45**		ug/L			453223	444057	3	Standard
|	**Cr**	**52**	**-0.032**	ug/L	0.004	11	16290	15408	2	Standard
⌊	**Cr**	**53**	**0.019**	ug/L	0.007	37	110	147	6	Standard
⌈>	**Ge**	**72**		ug/L			35046	33129	1	KED
|	**Ni**	**60**	**-0.013**	ug/L	0.009	72	104	80	16	KED
|	**Ni**	**62**	**-0.019**	ug/L	0.014	73	17	12	22	KED
|	**Cu**	**63**	**0.018**	ug/L	0.001	5	50	115	3	KED
|	**Cu**	**65**	**0.024**	ug/L	0.004	18	24	68	11	KED
|	**Zn**	**66**	**0.182**	ug/L	0.036	20	45	132	13	KED
|	**Zn**	**67**	**0.197**	ug/L	0.016	8	5	21	5	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.002	61	4	3	12	KED
	Y	**89**		ug/L			264383	266560	3	Standard
	Kr	**83**		ug/L			57	39	10	Standard
⌈>	**In-1**	**115**		ug/L			8211	7474	1	KED
|	**Cd**	**111**	**-0.016**	ug/L	0.008	50	8	3	56	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.003	74	5	7	24	KED
⌈>	**In**	**115**		ug/L			441019	441152	0	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	26	84	138	9	Standard
⌈>	**Tb**	**159**		ug/L			1096960	1132360	2	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.000	3	408	892	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 05:03:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26724	29357	2	Standard
	Cl	**37**		ug/L			5151969	5672751	2	Standard
⌈>	**Sc**	**45**		ug/L			453223	460804	0	Standard
|	**Cr**	**52**	**50.032**	ug/L	0.274	0	16290	905030	0	Standard
⌊	**Cr**	**53**	**48.384**	ug/L	0.947	1	110	101282	1	Standard
⌈>	**Ge**	**72**		ug/L			35046	33813	2	KED
|	**Ni**	**60**	**51.580**	ug/L	0.726	1	104	71250	1	KED
|	**Ni**	**62**	**52.671**	ug/L	0.580	1	17	11744	1	KED
|	**Cu**	**63**	**51.441**	ug/L	1.070	2	50	199655	0	KED
|	**Cu**	**65**	**51.741**	ug/L	0.176	0	24	101261	2	KED
|	**Zn**	**66**	**51.010**	ug/L	1.060	2	45	25613	0	KED
|	**Zn**	**67**	**51.505**	ug/L	1.196	2	5	4332	0	KED
⌊	**As**	**75**	**50.041**	ug/L	1.120	2	4	13467	0	KED
	Y	**89**		ug/L			264383	272750	0	Standard
	Kr	**83**		ug/L			57	44	8	Standard
⌈>	**In-1**	**115**		ug/L			8211	7865	2	KED
|	**Cd**	**111**	**51.413**	ug/L	1.279	2	8	13483	0	KED
⌊	**Cd**	**114**	**50.414**	ug/L	1.260	2	5	34679	0	KED
⌈>	**In**	**115**		ug/L			441019	445575	2	Standard
⌊	**Ag**	**107**	**48.900**	ug/L	0.663	1	84	861478	1	Standard
⌈>	**Tb**	**159**		ug/L			1096960	1144812	0	Standard
⌊	**Pb**	**208**	**51.760**	ug/L	1.752	3	408	3942104	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 05:10:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26724	26104	3	Standard
	Cl	**37**		ug/L			5151969	5639187	2	Standard
⌈>	**Sc**	**45**		ug/L			453223	448332	2	Standard
|	**Cr**	**52**	**-0.025**	ug/L	0.012	48	16290	15687	2	Standard
⌊	**Cr**	**53**	**0.004**	ug/L	0.001	38	110	117	4	Standard
⌈>	**Ge**	**72**		ug/L			35046	33966	0	KED
|	**Ni**	**60**	**-0.045**	ug/L	0.003	6	104	38	10	KED
|	**Ni**	**62**	**-0.046**	ug/L	0.018	39	17	6	56	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.002	185	50	45	15	KED
|	**Cu**	**65**	**0.001**	ug/L	0.003	443	24	25	24	KED
|	**Zn**	**66**	**-0.044**	ug/L	0.006	14	45	21	13	KED
|	**Zn**	**67**	**-0.005**	ug/L	0.047	866	5	5	78	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.004	321	4	4	22	KED
	Y	**89**		ug/L			264383	260386	4	Standard
	Kr	**83**		ug/L			57	43	17	Standard
⌈>	**In-1**	**115**		ug/L			8211	8065	1	KED
|	**Cd**	**111**	**-0.011**	ug/L	0.002	20	8	5	10	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.001	64	5	6	15	KED
⌈>	**In**	**115**		ug/L			441019	436923	2	Standard
⌊	**Ag**	**107**	**0.006**	ug/L	0.000	7	84	186	4	Standard
⌈>	**Tb**	**159**		ug/L			1096960	1110321	1	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	23	408	315	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0005-02
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 05:14:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26724	55673	1	Standard
	Cl	37		ug/L			5151969	7590899	3	Standard
>	Sc	45		ug/L			453223	495597	1	Standard
	Cr	52	8.269	ug/L	0.110	1	16290	175731	1	Standard
	Cr	53	11.313	ug/L	0.109	0	110	25562	0	Standard
>	Ge	72		ug/L			35046	32312	1	KED
	Ni	60	2.230	ug/L	0.122	5	104	3034	4	KED
	Ni	62	2.079	ug/L	0.205	9	17	458	8	KED
	Cu	63	12.649	ug/L	0.191	1	50	46962	1	KED
	Cu	65	12.834	ug/L	0.179	1	24	24020	2	KED
	Zn	66	36.470	ug/L	0.711	1	45	17514	1	KED
	Zn	67	34.758	ug/L	0.770	2	5	2797	3	KED
	As	75	1.264	ug/L	0.075	5	4	329	4	KED
	Y	89		ug/L			264383	273096	0	Standard
	Kr	83		ug/L			57	38	34	Standard
>	In-1	115		ug/L			8211	7637	2	KED
	Cd	111	0.012	ug/L	0.016	126	8	10	35	KED
	Cd	114	0.037	ug/L	0.013	35	5	29	31	KED
>	In	115		ug/L			441019	435406	1	Standard
	Ag	107	0.007	ug/L	0.001	8	84	209	3	Standard
>	Tb	159		ug/L			1096960	1132379	1	Standard
	Pb	208	0.570	ug/L	0.007	1	408	43342	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0005-04
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 05:19:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26724	56028	1	Standard
	Cl	37		ug/L			5151969	7997560	2	Standard
>	Sc	45		ug/L			453223	487585	0	Standard
	Cr	52	4.013	ug/L	0.073	1	16290	92923	0	Standard
	Cr	53	8.147	ug/L	0.150	1	110	18144	1	Standard
>	Ge	72		ug/L			35046	32113	0	KED
	Ni	60	14.669	ug/L	0.095	0	104	19315	0	KED
	Ni	62	14.488	ug/L	0.202	1	17	3080	1	KED
	Cu	63	9.766	ug/L	0.107	1	50	36045	1	KED
	Cu	65	9.809	ug/L	0.219	2	24	18250	2	KED
	Zn	66	13.618	ug/L	0.197	1	45	6525	1	KED
	Zn	67	14.922	ug/L	0.354	2	5	1196	2	KED
	As	75	0.377	ug/L	0.006	1	4	100	1	KED
	Y	89		ug/L			264383	269563	0	Standard
	Kr	83		ug/L			57	43	2	Standard
>	In-1	115		ug/L			8211	7622	0	KED
	Cd	111	0.002	ug/L	0.002	103	8	8	6	KED
	Cd	114	0.018	ug/L	0.014	77	5	16	54	KED
>	In	115		ug/L			441019	428873	1	Standard
	Ag	107	0.004	ug/L	0.001	29	84	146	14	Standard
>	Tb	159		ug/L			1096960	1123620	1	Standard
	Pb	208	0.478	ug/L	0.005	1	408	36111	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0006-03
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 05:23:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26724	54788	1	Standard
	Cl	**37**		ug/L			5151969	7095519	1	Standard
⌈>	**Sc**	**45**		ug/L			453223	483205	2	Standard
|	**Cr**	**52**	**10.499**	ug/L	0.258	2	16290	212807	0	Standard
⌊	**Cr**	**53**	**13.490**	ug/L	0.490	3	110	29684	1	Standard
⌈>	**Ge**	**72**		ug/L			35046	32318	0	KED
|	**Ni**	**60**	**5.257**	ug/L	0.093	1	104	7027	1	KED
|	**Ni**	**62**	**5.138**	ug/L	0.255	4	17	1109	4	KED
|	**Cu**	**63**	**12.693**	ug/L	0.297	2	50	47133	2	KED
|	**Cu**	**65**	**12.851**	ug/L	0.404	3	24	24054	2	KED
|	**Zn**	**66**	**38.995**	ug/L	0.363	0	45	18729	1	KED
|	**Zn**	**67**	**37.422**	ug/L	0.178	0	5	3011	0	KED
⌊	**As**	**75**	**1.317**	ug/L	0.071	5	4	343	5	KED
	Y	**89**		ug/L			264383	268579	2	Standard
	Kr	**83**		ug/L			57	44	4	Standard
⌈>	**In-1**	**115**		ug/L			8211	7665	2	KED
|	**Cd**	**111**	**0.018**	ug/L	0.019	105	8	12	40	KED
⌊	**Cd**	**114**	**0.022**	ug/L	0.014	60	5	20	45	KED
⌈>	**In**	**115**		ug/L			441019	437379	2	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.001	20	84	150	10	Standard
⌈>	**Tb**	**159**		ug/L			1096960	1125797	1	Standard
⌊	**Pb**	**208**	**0.455**	ug/L	0.003	0	408	34520	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0006-04
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 05:28:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26724	54698	3	Standard
	Cl	37		ug/L			5151969	7127461	2	Standard
>	Sc	45		ug/L			453223	484839	2	Standard
	Cr	52	10.856	ug/L	0.383	3	16290	220166	1	Standard
	Cr	53	14.537	ug/L	0.200	1	110	32100	1	Standard
>	Ge	72		ug/L			35046	32492	0	KED
	Ni	60	6.053	ug/L	0.117	1	104	8121	1	KED
	Ni	62	6.458	ug/L	0.118	1	17	1398	1	KED
	Cu	63	13.283	ug/L	0.030	0	50	49587	0	KED
	Cu	65	13.246	ug/L	0.072	0	24	24928	0	KED
	Zn	66	42.630	ug/L	0.714	1	45	20580	1	KED
	Zn	67	42.089	ug/L	1.834	4	5	3404	4	KED
	As	75	1.366	ug/L	0.071	5	4	357	5	KED
	Y	89		ug/L			264383	269409	1	Standard
	Kr	83		ug/L			57	55	26	Standard
>	In-1	115		ug/L			8211	7642	1	KED
	Cd	111	0.012	ug/L	0.012	96	8	10	28	KED
	Cd	114	0.020	ug/L	0.019	98	5	18	71	KED
>	In	115		ug/L			441019	432428	1	Standard
	Ag	107	0.003	ug/L	0.002	49	84	139	19	Standard
>	Tb	159		ug/L			1096960	1139318	1	Standard
	Pb	208	0.485	ug/L	0.005	1	408	37139	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0020-02
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 05:32:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26724	44572	2	Standard
	Cl	**37**		ug/L			5151969	5754319	3	Standard
⌈>	**Sc**	**45**		ug/L			453223	514824	1	Standard
|	**Cr**	**52**	**0.210**	ug/L	0.034	16	16290	22661	1	Standard
⌊	**Cr**	**53**	**0.899**	ug/L	0.007	0	110	2227	2	Standard
⌈>	**Ge**	**72**		ug/L			35046	33580	1	KED
|	**Ni**	**60**	**0.884**	ug/L	0.021	2	104	1311	2	KED
|	**Ni**	**62**	**0.952**	ug/L	0.093	9	17	227	7	KED
|	**Cu**	**63**	**1.695**	ug/L	0.044	2	50	6579	1	KED
|	**Cu**	**65**	**1.696**	ug/L	0.040	2	24	3318	1	KED
|	**Zn**	**66**	**8.186**	ug/L	0.272	3	45	4118	3	KED
|	**Zn**	**67**	**8.259**	ug/L	0.342	4	5	694	3	KED
⌊	**As**	**75**	**3.585**	ug/L	0.127	3	4	963	4	KED
	Y	**89**		ug/L			264383	285153	2	Standard
	Kr	**83**		ug/L			57	45	19	Standard
⌈>	**In-1**	**115**		ug/L			8211	7857	1	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.007	90	8	5	33	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.002	148	5	6	18	KED
⌈>	**In**	**115**		ug/L			441019	448740	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	19	84	67	4	Standard
⌈>	**Tb**	**159**		ug/L			1096960	1135698	1	Standard
⌊	**Pb**	**208**	**0.021**	ug/L	0.001	3	408	2027	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0162-02
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 05:36:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26724	57968	1	Standard
	Cl	37		ug/L			5151969	8042294	3	Standard
>	Sc	45		ug/L			453223	495239	1	Standard
	Cr	52	5.232	ug/L	0.098	1	16290	117637	1	Standard
	Cr	53	8.737	ug/L	0.140	1	110	19758	2	Standard
>	Ge	72		ug/L			35046	32193	0	KED
	Ni	60	2.491	ug/L	0.052	2	104	3368	2	KED
	Ni	62	2.599	ug/L	0.224	8	17	567	9	KED
	Cu	63	15.685	ug/L	0.340	2	50	58012	2	KED
	Cu	65	16.252	ug/L	0.048	0	24	30298	0	KED
	Zn	66	36.502	ug/L	0.270	0	45	17466	1	KED
	Zn	67	36.095	ug/L	0.708	1	5	2893	2	KED
	As	75	1.629	ug/L	0.059	3	4	421	3	KED
	Y	89		ug/L			264383	272545	2	Standard
	Kr	83		ug/L			57	51	13	Standard
>	In-1	115		ug/L			8211	7497	2	KED
	Cd	111	0.025	ug/L	0.011	44	8	13	17	KED
	Cd	114	0.024	ug/L	0.012	51	5	20	40	KED
>	In	115		ug/L			441019	430879	0	Standard
	Ag	107	0.006	ug/L	0.001	22	84	189	12	Standard
>	Tb	159		ug/L			1096960	1137120	1	Standard
	Pb	208	0.677	ug/L	0.012	1	408	51628	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0162-04
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 05:41:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26724	59440	3	Standard
	Cl	**37**		ug/L			5151969	8285639	2	Standard
⌈>	**Sc**	**45**		ug/L			453223	496290	1	Standard
|	**Cr**	**52**	**5.854**	ug/L	0.030	0	16290	129803	1	Standard
⌊	**Cr**	**53**	**10.450**	ug/L	0.083	0	110	23659	2	Standard
⌈>	**Ge**	**72**		ug/L			35046	32174	1	KED
|	**Ni**	**60**	**2.437**	ug/L	0.018	0	104	3294	1	KED
|	**Ni**	**62**	**2.689**	ug/L	0.128	4	17	586	4	KED
|	**Cu**	**63**	**16.297**	ug/L	0.170	1	50	60230	0	KED
|	**Cu**	**65**	**16.232**	ug/L	0.214	1	24	30240	0	KED
|	**Zn**	**66**	**44.805**	ug/L	0.542	1	45	21417	1	KED
|	**Zn**	**67**	**42.705**	ug/L	0.472	1	5	3420	1	KED
⌊	**As**	**75**	**1.621**	ug/L	0.035	2	4	419	2	KED
	Y	**89**		ug/L			264383	264749	1	Standard
	Kr	**83**		ug/L			57	48	4	Standard
⌈>	**In-1**	**115**		ug/L			8211	7295	1	KED
|	**Cd**	**111**	**0.047**	ug/L	0.013	27	8	18	16	KED
⌊	**Cd**	**114**	**0.031**	ug/L	0.015	47	5	24	38	KED
⌈>	**In**	**115**		ug/L			441019	426842	2	Standard
⌊	**Ag**	**107**	**0.006**	ug/L	0.001	10	84	189	6	Standard
⌈>	**Tb**	**159**		ug/L			1096960	1112877	0	Standard
⌊	**Pb**	**208**	**0.780**	ug/L	0.002	0	408	58127	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0162-06
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 05:45:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26724	58384	2	Standard
	Cl	37		ug/L			5151969	8247946	1	Standard
>	Sc	45		ug/L			453223	505191	1	Standard
	Cr	52	5.353	ug/L	0.023	0	16290	122378	0	Standard
	Cr	53	10.107	ug/L	0.175	1	110	23293	1	Standard
>	Ge	72		ug/L			35046	31912	0	KED
	Ni	60	3.706	ug/L	0.076	2	104	4920	1	KED
	Ni	62	3.869	ug/L	0.193	4	17	829	4	KED
	Cu	63	17.439	ug/L	0.153	0	50	63924	0	KED
	Cu	65	17.175	ug/L	0.127	0	24	31738	1	KED
	Zn	66	38.532	ug/L	0.666	1	45	18274	1	KED
	Zn	67	37.401	ug/L	1.146	3	5	2971	3	KED
	As	75	1.609	ug/L	0.040	2	4	413	2	KED
	Y	89		ug/L			264383	266809	1	Standard
	Kr	83		ug/L			57	45	20	Standard
>	In-1	115		ug/L			8211	7396	1	KED
	Cd	111	0.029	ug/L	0.030	100	8	14	48	KED
	Cd	114	0.032	ug/L	0.010	31	5	25	27	KED
>	In	115		ug/L			441019	431470	1	Standard
	Ag	107	0.006	ug/L	0.003	43	84	181	25	Standard
>	Tb	159		ug/L			1096960	1138489	0	Standard
	Pb	208	0.720	ug/L	0.009	1	408	54969	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0182-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 05:49:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26724	70104	2	Standard
	Cl	37		ug/L			5151969	5615906	1	Standard
>	Sc	45		ug/L			453223	467243	1	Standard
	Cr	52	86.810	ug/L	1.050	1	16290	1579818	1	Standard
	Cr	53	86.686	ug/L	0.708	0	110	183914	0	Standard
>	Ge	72		ug/L			35046	34244	0	KED
	Ni	60	0.649	ug/L	0.054	8	104	1008	7	KED
	Ni	62	0.740	ug/L	0.099	13	17	184	11	KED
	Cu	63	1.464	ug/L	0.058	3	50	5806	4	KED
	Cu	65	1.515	ug/L	0.065	4	24	3027	4	KED
	Zn	66	87.431	ug/L	1.560	1	45	44443	2	KED
	Zn	67	78.733	ug/L	2.244	2	5	6706	2	KED
	As	75	0.088	ug/L	0.023	26	4	28	21	KED
	Y	89		ug/L			264383	270455	1	Standard
	Kr	83		ug/L			57	42	14	Standard
>	In-1	115		ug/L			8211	7868	0	KED
	Cd	111	0.562	ug/L	0.053	9	8	155	8	KED
	Cd	114	0.552	ug/L	0.031	5	5	385	5	KED
>	In	115		ug/L			441019	453653	0	Standard
	Ag	107	0.082	ug/L	0.006	6	84	1555	6	Standard
>	Tb	159		ug/L			1096960	1154919	1	Standard
	Pb	208	0.064	ug/L	0.002	3	408	5322	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLF
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 05:54:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26724	27520	1	Standard
	Cl	37		ug/L			5151969	5594911	3	Standard
>	Sc	45		ug/L			453223	419541	13	Standard
	Cr	52	0.025	ug/L	0.105	422	16290	15336	4	Standard
	Cr	53	0.531	ug/L	0.095	17	110	1096	1	Standard
>	Ge	72		ug/L			35046	32787	1	KED
	Ni	60	-0.015	ug/L	0.008	51	104	76	14	KED
	Ni	62	-0.036	ug/L	0.006	16	17	8	12	KED
	Cu	63	0.022	ug/L	0.003	12	50	132	9	KED
	Cu	65	0.017	ug/L	0.004	25	24	55	16	KED
	Zn	66	0.244	ug/L	0.098	40	45	160	28	KED
	Zn	67	0.207	ug/L	0.072	34	5	22	27	KED
	As	75	-0.007	ug/L	0.002	30	4	2	20	KED
	Y	89		ug/L			264383	243011	11	Standard
	Kr	83		ug/L			57	45	25	Standard
>	In-1	115		ug/L			8211	7720	2	KED
	Cd	111	-0.017	ug/L	0.002	11	8	3	15	KED
	Cd	114	0.002	ug/L	0.003	158	5	6	34	KED
>	In	115		ug/L			441019	415908	13	Standard
	Ag	107	-0.003	ug/L	0.001	53	84	36	48	Standard
>	Tb	159		ug/L			1096960	1046961	13	Standard
	Pb	208	0.006	ug/L	0.002	31	408	828	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 05:58:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26724	28075	1	Standard
	Cl	**37**		ug/L			5151969	5694480	2	Standard
⌈>	**Sc**	**45**		ug/L			453223	456874	1	Standard
|	**Cr**	**52**	**49.969**	ug/L	1.107	2	16290	896054	1	Standard
⌊	**Cr**	**53**	**49.690**	ug/L	0.742	1	110	103131	1	Standard
⌈>	**Ge**	**72**		ug/L			35046	33353	1	KED
|	**Ni**	**60**	**51.299**	ug/L	1.401	2	104	69885	0	KED
|	**Ni**	**62**	**52.138**	ug/L	0.077	0	17	11468	1	KED
|	**Cu**	**63**	**52.196**	ug/L	0.753	1	50	199846	0	KED
|	**Cu**	**65**	**52.317**	ug/L	1.803	3	24	100950	1	KED
|	**Zn**	**66**	**52.889**	ug/L	2.050	3	45	26187	2	KED
|	**Zn**	**67**	**51.461**	ug/L	1.400	2	5	4269	0	KED
⌊	**As**	**75**	**50.563**	ug/L	1.311	2	4	13421	0	KED
	Y	**89**		ug/L			264383	266216	2	Standard
	Kr	**83**		ug/L			57	57	10	Standard
⌈>	**In-1**	**115**		ug/L			8211	7662	2	KED
|	**Cd**	**111**	**52.794**	ug/L	2.039	3	8	13484	1	KED
⌊	**Cd**	**114**	**52.827**	ug/L	1.703	3	5	35398	1	KED
⌈>	**In**	**115**		ug/L			441019	435183	2	Standard
⌊	**Ag**	**107**	**49.160**	ug/L	0.939	1	84	845799	0	Standard
⌈>	**Tb**	**159**		ug/L			1096960	1116804	0	Standard
⌊	**Pb**	**208**	**54.586**	ug/L	0.583	1	408	4055465	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 06:05:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26724	26208	2	Standard
	Cl	**37**		ug/L			5151969	5636720	3	Standard
⌈>	**Sc**	**45**		ug/L			453223	450586	2	Standard
|	**Cr**	**52**	**-0.029**	ug/L	0.031	104	16290	15682	1	Standard
⌊	**Cr**	**53**	**0.136**	ug/L	0.004	3	110	388	3	Standard
⌈>	**Ge**	**72**		ug/L			35046	33485	1	KED
|	**Ni**	**60**	**-0.057**	ug/L	0.001	2	104	20	9	KED
|	**Ni**	**62**	**-0.054**	ug/L	0.005	8	17	5	21	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.002	186	50	44	17	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.004	233	24	20	37	KED
|	**Zn**	**66**	**-0.026**	ug/L	0.026	98	45	29	41	KED
|	**Zn**	**67**	**-0.012**	ug/L	0.026	207	5	4	49	KED
⌊	**As**	**75**	**0.001**	ug/L	0.002	305	4	4	14	KED
	Y	**89**		ug/L			264383	266469	1	Standard
	Kr	**83**		ug/L			57	51	9	Standard
⌈>	**In-1**	**115**		ug/L			8211	7883	0	KED
|	**Cd**	**111**	**-0.013**	ug/L	0.008	63	8	4	49	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.003	88	5	7	25	KED
⌈>	**In**	**115**		ug/L			441019	446411	1	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.000	10	84	150	3	Standard
⌈>	**Tb**	**159**		ug/L			1096960	1126708	1	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	33	408	335	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0135-04
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 06:10:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26724	45758	4	Standard
	Cl	37		ug/L			5151969	5291893	3	Standard
>	Sc	45		ug/L			453223	559644	1	Standard
	Cr	52	0.205	ug/L	0.017	8	16290	24527	1	Standard
	Cr	53	0.995	ug/L	0.023	2	110	2664	2	Standard
>	Ge	72		ug/L			35046	33482	0	KED
	Ni	60	0.595	ug/L	0.048	8	104	912	6	KED
	Ni	62	0.539	ug/L	0.100	18	17	135	16	KED
	Cu	63	0.718	ug/L	0.021	2	50	2808	2	KED
	Cu	65	0.719	ug/L	0.018	2	24	1417	1	KED
	Zn	66	2.111	ug/L	0.147	6	45	1091	7	KED
	Zn	67	2.346	ug/L	0.119	5	5	200	4	KED
	As	75	0.672	ug/L	0.035	5	4	183	4	KED
	Y	89		ug/L			264383	280465	1	Standard
	Kr	83		ug/L			57	44	16	Standard
>	In-1	115		ug/L			8211	7838	2	KED
	Cd	111	0.033	ug/L	0.043	130	8	16	68	KED
	Cd	114	0.064	ug/L	0.070	109	5	49	98	KED
>	In	115		ug/L			441019	454288	1	Standard
	Ag	107	0.002	ug/L	0.001	35	84	120	8	Standard
>	Tb	159		ug/L			1096960	1158380	0	Standard
	Pb	208	0.047	ug/L	0.002	3	408	4074	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0135-06
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 06:14:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26724	46330	3	Standard
	Cl	37		ug/L			5151969	5129311	2	Standard
>	Sc	45		ug/L			453223	520085	6	Standard
	Cr	52	0.481	ug/L	0.107	22	16290	28257	2	Standard
	Cr	53	1.257	ug/L	0.089	7	110	3085	2	Standard
>	Ge	72		ug/L			35046	33126	1	KED
	Ni	60	0.260	ug/L	0.004	1	104	450	1	KED
	Ni	62	0.316	ug/L	0.044	14	17	85	11	KED
	Cu	63	0.429	ug/L	0.001	0	50	1680	1	KED
	Cu	65	0.424	ug/L	0.029	6	24	836	6	KED
	Zn	66	1.938	ug/L	0.037	1	45	994	0	KED
	Zn	67	2.218	ug/L	0.347	15	5	187	14	KED
	As	75	0.667	ug/L	0.028	4	4	180	2	KED
	Y	89		ug/L			264383	251746	9	Standard
	Kr	83		ug/L			57	48	21	Standard
>	In-1	115		ug/L			8211	7726	4	KED
	Cd	111	-0.014	ug/L	0.009	67	8	4	53	KED
	Cd	114	0.002	ug/L	0.012	495	5	6	112	KED
>	In	115		ug/L			441019	402311	9	Standard
	Ag	107	-0.001	ug/L	0.001	57	84	60	9	Standard
>	Tb	159		ug/L			1096960	1047316	7	Standard
	Pb	208	0.020	ug/L	0.002	11	408	1810	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0135-08
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 06:19:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26724	47426	1	Standard
	Cl	37		ug/L			5151969	5094431	1	Standard
⌈>	Sc	45		ug/L			453223	550045	1	Standard
|	Cr	52	0.194	ug/L	0.014	7	16290	23876	2	Standard
⌊	Cr	53	0.945	ug/L	0.013	1	110	2493	1	Standard
⌈>	Ge	72		ug/L			35046	32723	0	KED
|	Ni	60	0.340	ug/L	0.008	2	104	551	1	KED
|	Ni	62	0.353	ug/L	0.080	22	17	92	18	KED
|	Cu	63	0.481	ug/L	0.025	5	50	1854	5	KED
|	Cu	65	0.492	ug/L	0.019	3	24	954	3	KED
|	Zn	66	2.203	ug/L	0.014	0	45	1111	0	KED
|	Zn	67	2.339	ug/L	0.067	2	5	195	3	KED
⌊	As	75	0.917	ug/L	0.055	6	4	243	5	KED
	Y	89		ug/L			264383	273775	0	Standard
	Kr	83		ug/L			57	43	6	Standard
⌈>	In-1	115		ug/L			8211	7520	1	KED
|	Cd	111	-0.014	ug/L	0.006	45	8	4	35	KED
⌊	Cd	114	0.004	ug/L	0.005	129	5	7	40	KED
⌈>	In	115		ug/L			441019	446013	1	Standard
⌊	Ag	107	-0.001	ug/L	0.001	89	84	70	18	Standard
⌈>	Tb	159		ug/L			1096960	1157010	1	Standard
⌊	Pb	208	0.026	ug/L	0.001	2	408	2401	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0135-10
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 06:23:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26724	48318	4	Standard
	Cl	37		ug/L			5151969	5103771	2	Standard
>	Sc	45		ug/L			453223	556871	2	Standard
	Cr	52	0.112	ug/L	0.035	31	16290	22409	1	Standard
	Cr	53	0.950	ug/L	0.023	2	110	2538	3	Standard
>	Ge	72		ug/L			35046	33373	1	KED
	Ni	60	0.324	ug/L	0.024	7	104	539	5	KED
	Ni	62	0.368	ug/L	0.020	5	17	97	4	KED
	Cu	63	0.445	ug/L	0.015	3	50	1753	2	KED
	Cu	65	0.431	ug/L	0.028	6	24	856	6	KED
	Zn	66	2.860	ug/L	0.117	4	45	1457	2	KED
	Zn	67	2.957	ug/L	0.351	11	5	250	12	KED
	As	75	0.623	ug/L	0.046	7	4	170	5	KED
	Y	89		ug/L			264383	274145	1	Standard
	Kr	83		ug/L			57	40	17	Standard
>	In-1	115		ug/L			8211	7652	1	KED
	Cd	111	-0.000	ug/L	0.010	3237	8	7	33	KED
	Cd	114	0.002	ug/L	0.005	226	5	6	50	KED
>	In	115		ug/L			441019	451327	1	Standard
	Ag	107	-0.002	ug/L	0.000	22	84	51	16	Standard
>	Tb	159		ug/L			1096960	1151557	1	Standard
	Pb	208	0.027	ug/L	0.000	0	408	2521	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0135-12
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 06:28:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26724	45980	4	Standard
	Cl	37		ug/L			5151969	5026915	2	Standard
>	Sc	45		ug/L			453223	550880	1	Standard
	Cr	52	0.066	ug/L	0.011	17	16290	21194	2	Standard
	Cr	53	0.921	ug/L	0.018	1	110	2437	1	Standard
>	Ge	72		ug/L			35046	33012	2	KED
	Ni	60	0.406	ug/L	0.012	2	104	645	4	KED
	Ni	62	0.385	ug/L	0.042	10	17	100	7	KED
	Cu	63	0.427	ug/L	0.003	0	50	1667	1	KED
	Cu	65	0.405	ug/L	0.016	4	24	796	5	KED
	Zn	66	2.059	ug/L	0.083	4	45	1050	3	KED
	Zn	67	2.325	ug/L	0.148	6	5	196	6	KED
	As	75	0.490	ug/L	0.071	14	4	133	14	KED
	Y	89		ug/L			264383	273769	2	Standard
	Kr	83		ug/L			57	45	4	Standard
>	In-1	115		ug/L			8211	7867	1	KED
	Cd	111	-0.017	ug/L	0.004	25	8	3	31	KED
	Cd	114	-0.001	ug/L	0.007	596	5	4	117	KED
>	In	115		ug/L			441019	435133	1	Standard
	Ag	107	-0.002	ug/L	0.000	11	84	40	11	Standard
>	Tb	159		ug/L			1096960	1151228	1	Standard
	Pb	208	0.023	ug/L	0.001	2	408	2189	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0135-14
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 06:32:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26724	53796	3	Standard
	Cl	37		ug/L			5151969	5465727	2	Standard
>	Sc	45		ug/L			453223	538143	1	Standard
	Cr	52	0.115	ug/L	0.032	27	16290	21720	1	Standard
	Cr	53	0.901	ug/L	0.043	4	110	2332	5	Standard
>	Ge	72		ug/L			35046	33204	1	KED
	Ni	60	0.991	ug/L	0.047	4	104	1440	3	KED
	Ni	62	0.974	ug/L	0.019	1	17	229	0	KED
	Cu	63	1.893	ug/L	0.011	0	50	7264	1	KED
	Cu	65	1.898	ug/L	0.024	1	24	3669	0	KED
	Zn	66	3.907	ug/L	0.162	4	45	1965	3	KED
	Zn	67	4.500	ug/L	0.316	7	5	376	5	KED
	As	75	0.475	ug/L	0.019	3	4	130	5	KED
	Y	89		ug/L			264383	276199	0	Standard
	Kr	83		ug/L			57	48	47	Standard
>	In-1	115		ug/L			8211	7618	2	KED
	Cd	111	-0.004	ug/L	0.004	103	8	6	14	KED
	Cd	114	0.007	ug/L	0.009	133	5	9	63	KED
>	In	115		ug/L			441019	444154	1	Standard
	Ag	107	-0.001	ug/L	0.001	86	84	64	26	Standard
>	Tb	159		ug/L			1096960	1150870	0	Standard
	Pb	208	0.053	ug/L	0.002	4	408	4476	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0135-16
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 06:36:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26724	46219	4	Standard
	Cl	37		ug/L			5151969	5118073	3	Standard
>	Sc	45		ug/L			453223	550872	1	Standard
	Cr	52	0.090	ug/L	0.021	23	16290	21706	2	Standard
	Cr	53	0.909	ug/L	0.020	2	110	2408	2	Standard
>	Ge	72		ug/L			35046	32894	1	KED
	Ni	60	0.332	ug/L	0.017	5	104	542	3	KED
	Ni	62	0.339	ug/L	0.035	10	17	90	8	KED
	Cu	63	0.529	ug/L	0.009	1	50	2044	2	KED
	Cu	65	0.505	ug/L	0.016	3	24	984	2	KED
	Zn	66	1.845	ug/L	0.146	7	45	942	8	KED
	Zn	67	2.147	ug/L	0.200	9	5	180	9	KED
	As	75	0.604	ug/L	0.043	7	4	162	5	KED
	Y	89		ug/L			264383	270097	1	Standard
	Kr	83		ug/L			57	48	19	Standard
>	In-1	115		ug/L			8211	7532	1	KED
	Cd	111	-0.006	ug/L	0.013	212	8	6	50	KED
	Cd	114	0.003	ug/L	0.003	98	5	6	25	KED
>	In	115		ug/L			441019	443155	2	Standard
	Ag	107	-0.001	ug/L	0.001	47	84	58	18	Standard
>	Tb	159		ug/L			1096960	1152843	2	Standard
	Pb	208	0.085	ug/L	0.004	4	408	6970	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0170-02
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 06:41:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26724	51591	1	Standard
	Cl	**37**		ug/L			5151969	7385261	3	Standard
⌈>	**Sc**	**45**		ug/L			453223	489992	5	Standard
|	**Cr**	**52**	**0.205**	ug/L	0.032	15	16290	21459	3	Standard
⌊	**Cr**	**53**	**3.991**	ug/L	0.232	5	110	8975	2	Standard
⌈>	**Ge**	**72**		ug/L			35046	32000	0	KED
|	**Ni**	**60**	**0.670**	ug/L	0.031	4	104	970	3	KED
|	**Ni**	**62**	**0.640**	ug/L	0.060	9	17	151	8	KED
|	**Cu**	**63**	**0.755**	ug/L	0.014	1	50	2819	2	KED
|	**Cu**	**65**	**0.772**	ug/L	0.020	2	24	1452	2	KED
|	**Zn**	**66**	**4.516**	ug/L	0.217	4	45	2183	4	KED
|	**Zn**	**67**	**4.829**	ug/L	0.275	5	5	389	5	KED
⌊	**As**	**75**	**0.651**	ug/L	0.012	1	4	170	2	KED
	Y	**89**		ug/L			264383	252448	7	Standard
	Kr	**83**		ug/L			57	48	13	Standard
⌈>	**In-1**	**115**		ug/L			8211	7472	0	KED
|	**Cd**	**111**	**-0.005**	ug/L	0.008	177	8	6	31	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.002	78	5	6	18	KED
⌈>	**In**	**115**		ug/L			441019	400364	7	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.000	11	84	48	8	Standard
⌈>	**Tb**	**159**		ug/L			1096960	1073060	8	Standard
⌊	**Pb**	**208**	**0.053**	ug/L	0.004	8	408	4166	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0170-04
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 06:46:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26724	50697	0	Standard
	Cl	**37**		ug/L			5151969	5947249	2	Standard
⌈>	**Sc**	**45**		ug/L			453223	497923	0	Standard
|	**Cr**	**52**	**0.521**	ug/L	0.033	6	16290	27895	2	Standard
⌊	**Cr**	**53**	**1.766**	ug/L	0.024	1	110	4112	1	Standard
⌈>	**Ge**	**72**		ug/L			35046	32775	0	KED
|	**Ni**	**60**	**0.846**	ug/L	0.086	10	104	1227	8	KED
|	**Ni**	**62**	**0.938**	ug/L	0.077	8	17	219	7	KED
|	**Cu**	**63**	**3.118**	ug/L	0.079	2	50	11776	1	KED
|	**Cu**	**65**	**3.251**	ug/L	0.011	0	24	6188	0	KED
|	**Zn**	**66**	**10.735**	ug/L	0.333	3	45	5258	2	KED
|	**Zn**	**67**	**10.057**	ug/L	0.428	4	5	824	5	KED
⌊	**As**	**75**	**0.652**	ug/L	0.046	7	4	174	6	KED
	Y	**89**		ug/L			264383	275555	0	Standard
	Kr	**83**		ug/L			57	36	31	Standard
⌈>	**In-1**	**115**		ug/L			8211	7743	2	KED
|	**Cd**	**111**	**0.020**	ug/L	0.005	24	8	13	8	KED
⌊	**Cd**	**114**	**0.015**	ug/L	0.003	21	5	15	12	KED
⌈>	**In**	**115**		ug/L			441019	444651	2	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	65	84	59	30	Standard
⌈>	**Tb**	**159**		ug/L			1096960	1165479	1	Standard
⌊	**Pb**	**208**	**0.330**	ug/L	0.001	0	408	26002	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLG
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 06:50:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26724	28102	1	Standard
	Cl	**37**		ug/L			5151969	5428643	2	Standard
⌈>	**Sc**	**45**		ug/L			453223	462383	0	Standard
|	**Cr**	**52**	**-0.013**	ug/L	0.020	155	16290	16391	1	Standard
⌊	**Cr**	**53**	**0.224**	ug/L	0.009	4	110	582	3	Standard
⌈>	**Ge**	**72**		ug/L			35046	33311	0	KED
|	**Ni**	**60**	**-0.055**	ug/L	0.006	11	104	24	33	KED
|	**Ni**	**62**	**-0.060**	ug/L	0.000	0	17	3	0	KED
|	**Cu**	**63**	**0.020**	ug/L	0.006	32	50	124	19	KED
|	**Cu**	**65**	**0.026**	ug/L	0.002	8	24	73	5	KED
|	**Zn**	**66**	**0.019**	ug/L	0.019	102	45	52	18	KED
|	**Zn**	**67**	**0.034**	ug/L	0.093	272	5	8	93	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.009	234	4	3	65	KED
	Y	**89**		ug/L			264383	269695	2	Standard
	Kr	**83**		ug/L			57	50	20	Standard
⌈>	**In-1**	**115**		ug/L			8211	7755	3	KED
|	**Cd**	**111**	**-0.018**	ug/L	0.002	13	8	3	17	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.003	136	5	3	55	KED
⌈>	**In**	**115**		ug/L			441019	445374	2	Standard
⌊	**Ag**	**107**	**-0.003**	ug/L	0.000	14	84	34	22	Standard
⌈>	**Tb**	**159**		ug/L			1096960	1134139	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	96	408	488	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVG
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 06:54:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26724	28410	2	Standard
	Cl	**37**		ug/L			5151969	5601757	3	Standard
⌈>	**Sc**	**45**		ug/L			453223	461132	1	Standard
|	**Cr**	**52**	**49.252**	ug/L	0.921	1	16290	891638	0	Standard
⌊	**Cr**	**53**	**48.937**	ug/L	0.436	0	110	102519	1	Standard
⌈>	**Ge**	**72**		ug/L			35046	33443	0	KED
|	**Ni**	**60**	**52.317**	ug/L	0.311	0	104	71486	0	KED
|	**Ni**	**62**	**52.843**	ug/L	0.492	0	17	11654	0	KED
|	**Cu**	**63**	**53.503**	ug/L	0.753	1	50	205437	1	KED
|	**Cu**	**65**	**53.751**	ug/L	0.608	1	24	104047	1	KED
|	**Zn**	**66**	**53.400**	ug/L	0.547	1	45	26526	1	KED
|	**Zn**	**67**	**52.447**	ug/L	1.749	3	5	4364	2	KED
⌊	**As**	**75**	**51.424**	ug/L	0.424	0	4	13691	0	KED
	Y	**89**		ug/L			264383	268199	1	Standard
	Kr	**83**		ug/L			57	53	11	Standard
⌈>	**In-1**	**115**		ug/L			8211	7701	2	KED
|	**Cd**	**111**	**52.311**	ug/L	1.429	2	8	13431	0	KED
⌊	**Cd**	**114**	**51.426**	ug/L	1.039	2	5	34638	0	KED
⌈>	**In**	**115**		ug/L			441019	444742	1	Standard
⌊	**Ag**	**107**	**48.940**	ug/L	1.576	3	84	860635	2	Standard
⌈>	**Tb**	**159**		ug/L			1096960	1147445	1	Standard
⌊	**Pb**	**208**	**54.160**	ug/L	0.369	0	408	4134140	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBG
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 07:02:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26724	26939	5	Standard
	Cl	**37**		ug/L			5151969	5455098	2	Standard
⌈>	**Sc**	**45**		ug/L			453223	460899	1	Standard
|	**Cr**	**52**	**-0.016**	ug/L	0.009	54	16290	16279	0	Standard
⌊	**Cr**	**53**	**0.105**	ug/L	0.028	26	110	331	17	Standard
⌈>	**Ge**	**72**		ug/L			35046	34621	0	KED
|	**Ni**	**60**	**-0.064**	ug/L	0.003	5	104	12	39	KED
|	**Ni**	**62**	**-0.052**	ug/L	0.000	0	17	5	0	KED
|	**Cu**	**63**	**0.000**	ug/L	0.002	1086	50	50	13	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.002	98	24	19	24	KED
|	**Zn**	**66**	**-0.027**	ug/L	0.017	60	45	30	28	KED
|	**Zn**	**67**	**-0.044**	ug/L	0.022	50	5	1	100	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.005	168	4	3	38	KED
	Y	**89**		ug/L			264383	273658	2	Standard
	Kr	**83**		ug/L			57	39	5	Standard
⌈>	**In-1**	**115**		ug/L			8211	8278	1	KED
|	**Cd**	**111**	**-0.012**	ug/L	0.005	42	8	5	28	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.004	428	5	4	59	KED
⌈>	**In**	**115**		ug/L			441019	462299	1	Standard
⌊	**Ag**	**107**	**0.013**	ug/L	0.014	102	84	335	76	Standard
⌈>	**Tb**	**159**		ug/L			1096960	1168373	0	Standard
⌊	**Pb**	**208**	**0.008**	ug/L	0.016	199	408	1059	117	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 07:06:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				27642	4	Standard
	Cl	**37**		ug/L				5444164	1	Standard
⎡>	**Sc**	**45**		ug/L				458454	3	Standard
⎢	**Cr**	**52**		ug/L				15942	2	Standard
⎣	**Cr**	**53**		ug/L				279	10	Standard
⎡>	**Ge**	**72**		ug/L				33055	0	KED
⎢	**Ni**	**60**		ug/L				65	24	KED
⎢	**Ni**	**62**		ug/L				13	28	KED
⎢	**Cu**	**63**		ug/L				48	5	KED
⎢	**Cu**	**65**		ug/L				27	30	KED
⎢	**Zn**	**66**		ug/L				33	26	KED
⎢	**Zn**	**67**		ug/L				4	24	KED
⎣	**As**	**75**		ug/L				4	21	KED
	Y	**89**		ug/L				263626	1	Standard
	Kr	**83**		ug/L				46	14	Standard
⎡>	**In-1**	**115**		ug/L				7645	3	KED
⎢	**Cd**	**111**		ug/L				3	45	KED
⎣	**Cd**	**114**		ug/L				6	64	KED
⎡>	**In**	**115**		ug/L				437453	3	Standard
⎣	**Ag**	**107**		ug/L				109	55	Standard
⎡>	**Tb**	**159**		ug/L				1136980	1	Standard
⎣	**Pb**	**208**		ug/L				605	58	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVH
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 07:10:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	28086	3	Standard
	Cl	**37**		ug/L			5444164	5572198	2	Standard
⌈>	**Sc**	**45**		ug/L			458454	457903	0	Standard
|	**Cr**	**52**	**50.616**	ug/L	0.639	1	15942	909102	1	Standard
⌊	**Cr**	**53**	**49.174**	ug/L	0.198	0	279	102463	0	Standard
⌈>	**Ge**	**72**		ug/L			33055	33593	0	KED
|	**Ni**	**60**	**52.189**	ug/L	0.948	1	65	71599	1	KED
|	**Ni**	**62**	**52.649**	ug/L	0.852	1	13	11661	1	KED
|	**Cu**	**63**	**52.645**	ug/L	0.749	1	48	203060	1	KED
|	**Cu**	**65**	**52.748**	ug/L	0.343	0	27	102566	0	KED
|	**Zn**	**66**	**53.278**	ug/L	0.529	0	33	26574	0	KED
|	**Zn**	**67**	**52.333**	ug/L	0.317	0	4	4374	0	KED
⌊	**As**	**75**	**51.318**	ug/L	0.097	0	4	13725	0	KED
	Y	**89**		ug/L			263626	270416	2	Standard
	Kr	**83**		ug/L			46	59	32	Standard
⌈>	**In-1**	**115**		ug/L			7645	7847	1	KED
|	**Cd**	**111**	**51.836**	ug/L	0.695	1	3	13562	0	KED
⌊	**Cd**	**114**	**51.517**	ug/L	1.113	2	6	35367	1	KED
⌈>	**In**	**115**		ug/L			437453	434409	0	Standard
⌊	**Ag**	**107**	**49.306**	ug/L	0.400	0	109	847100	1	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1128082	2	Standard
⌊	**Pb**	**208**	**54.336**	ug/L	1.547	2	605	4077180	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBH
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 07:18:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	27217	2	Standard
	Cl	**37**		ug/L			5444164	5502187	2	Standard
⌈>	**Sc**	**45**		ug/L			458454	456463	0	Standard
|	**Cr**	**52**	**0.018**	ug/L	0.012	68	15942	16190	1	Standard
⌊	**Cr**	**53**	**-0.026**	ug/L	0.005	18	279	223	4	Standard
⌈>	**Ge**	**72**		ug/L			33055	34354	1	KED
|	**Ni**	**60**	**-0.011**	ug/L	0.030	273	65	52	79	KED
|	**Ni**	**62**	**-0.025**	ug/L	0.020	79	13	8	49	KED
|	**Cu**	**63**	**0.013**	ug/L	0.028	205	48	104	105	KED
|	**Cu**	**65**	**0.009**	ug/L	0.020	216	27	47	84	KED
|	**Zn**	**66**	**-0.003**	ug/L	0.021	792	33	33	31	KED
|	**Zn**	**67**	**0.013**	ug/L	0.067	511	4	5	100	KED
⌊	**As**	**75**	**0.017**	ug/L	0.025	151	4	9	74	KED
	Y	**89**		ug/L			263626	265671	3	Standard
	Kr	**83**		ug/L			46	53	9	Standard
⌈>	**In-1**	**115**		ug/L			7645	8016	1	KED
|	**Cd**	**111**	**0.009**	ug/L	0.003	37	3	5	16	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.010	781	6	7	92	KED
⌈>	**In**	**115**		ug/L			437453	442083	2	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.001	21	109	190	7	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1126486	1	Standard
⌊	**Pb**	**208**	**-0.004**	ug/L	0.000	4	605	313	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0081-04RE1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 07:22:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	47775	2	Standard
	Cl	**37**		ug/L			5444164	5651285	2	Standard
⌈>	**Sc**	**45**		ug/L			458454	476626	1	Standard
|	**Cr**	**52**	**0.345**	ug/L	0.032	9	15942	22908	1	Standard
⌊	**Cr**	**53**	**1.003**	ug/L	0.027	2	279	2460	1	Standard
⌈>	**Ge**	**72**		ug/L			33055	33161	1	KED
|	**Ni**	**60**	**0.339**	ug/L	0.027	7	65	524	6	KED
|	**Ni**	**62**	**0.433**	ug/L	0.042	9	13	108	7	KED
|	**Cu**	**63**	**3.151**	ug/L	0.065	2	48	12043	1	KED
|	**Cu**	**65**	**3.064**	ug/L	0.090	2	27	5907	1	KED
|	**Zn**	**66**	**28.127**	ug/L	0.189	0	33	13864	0	KED
|	**Zn**	**67**	**25.922**	ug/L	1.011	3	4	2141	4	KED
⌊	**As**	**75**	**3.404**	ug/L	0.062	1	4	903	2	KED
	Y	**89**		ug/L			263626	270242	4	Standard
	Kr	**83**		ug/L			46	40	33	Standard
⌈>	**In-1**	**115**		ug/L			7645	7564	2	KED
|	**Cd**	**111**	**0.067**	ug/L	0.008	11	3	20	9	KED
⌊	**Cd**	**114**	**0.071**	ug/L	0.017	23	6	53	22	KED
⌈>	**In**	**115**		ug/L			437453	438509	2	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.001	12	109	191	8	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1138740	0	Standard
⌊	**Pb**	**208**	**0.277**	ug/L	0.003	1	605	21563	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0089-01RE1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 07:27:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	62040	2	Standard
	Cl	**37**		ug/L			5444164	8983706	5	Standard
⌈>	**Sc**	**45**		ug/L			458454	533580	0	Standard
|	**Cr**	**52**	**0.742**	ug/L	0.013	1	15942	33800	0	Standard
⌊	**Cr**	**53**	**6.745**	ug/L	0.128	1	279	16659	2	Standard
⌈>	**Ge**	**72**		ug/L			33055	31830	2	KED
|	**Ni**	**60**	**2.183**	ug/L	0.029	1	65	2898	1	KED
|	**Ni**	**62**	**2.085**	ug/L	0.149	7	13	450	4	KED
|	**Cu**	**63**	**15.088**	ug/L	0.178	1	48	55165	1	KED
|	**Cu**	**65**	**15.321**	ug/L	0.208	1	27	28241	0	KED
|	**Zn**	**66**	**87.219**	ug/L	1.623	1	33	41189	0	KED
|	**Zn**	**67**	**80.426**	ug/L	1.738	2	4	6365	2	KED
⌊	**As**	**75**	**1.352**	ug/L	0.066	4	4	346	3	KED
	Y	**89**		ug/L			263626	284194	0	Standard
	Kr	**83**		ug/L			46	43	4	Standard
⌈>	**In-1**	**115**		ug/L			7645	7484	2	KED
|	**Cd**	**111**	**0.065**	ug/L	0.019	28	3	19	23	KED
⌊	**Cd**	**114**	**0.052**	ug/L	0.016	30	6	40	26	KED
⌈>	**In**	**115**		ug/L			437453	434665	0	Standard
⌊	**Ag**	**107**	**0.046**	ug/L	0.002	5	109	892	4	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1136319	1	Standard
⌊	**Pb**	**208**	**0.692**	ug/L	0.010	1	605	52881	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0062-01RE1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 07:32:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	50715	2	Standard
	Cl	**37**		ug/L			5444164	5297783	1	Standard
⌈>	**Sc**	**45**		ug/L			458454	514255	2	Standard
|	**Cr**	**52**	**0.208**	ug/L	0.011	5	15942	22002	1	Standard
⌊	**Cr**	**53**	**0.882**	ug/L	0.028	3	279	2371	0	Standard
⌈>	**Ge**	**72**		ug/L			33055	33477	0	KED
|	**Ni**	**60**	**0.057**	ug/L	0.011	19	65	143	10	KED
|	**Ni**	**62**	**0.016**	ug/L	0.018	107	13	17	22	KED
|	**Cu**	**63**	**0.142**	ug/L	0.012	8	48	594	8	KED
|	**Cu**	**65**	**0.150**	ug/L	0.020	13	27	318	11	KED
|	**Zn**	**66**	**1.018**	ug/L	0.078	7	33	539	7	KED
|	**Zn**	**67**	**1.060**	ug/L	0.272	25	4	92	24	KED
⌊	**As**	**75**	**0.208**	ug/L	0.017	8	4	60	7	KED
	Y	**89**		ug/L			263626	275566	2	Standard
	Kr	**83**		ug/L			46	48	6	Standard
⌈>	**In-1**	**115**		ug/L			7645	8023	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.008	251	3	4	48	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.005	142	6	9	41	KED
⌈>	**In**	**115**		ug/L			437453	448326	0	Standard
⌊	**Ag**	**107**	**-0.003**	ug/L	0.000	16	109	64	12	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1180887	1	Standard
⌊	**Pb**	**208**	**0.020**	ug/L	0.001	4	605	2206	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0062-05RE1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 07:36:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	47838	1	Standard
	Cl	**37**		ug/L			5444164	5135506	2	Standard
⌈>	**Sc**	**45**		ug/L			458454	527090	2	Standard
|	**Cr**	**52**	**0.250**	ug/L	0.014	5	15942	23406	1	Standard
⌊	**Cr**	**53**	**0.706**	ug/L	0.023	3	279	2009	1	Standard
⌈>	**Ge**	**72**		ug/L			33055	33070	0	KED
|	**Ni**	**60**	**0.112**	ug/L	0.029	25	65	217	18	KED
|	**Ni**	**62**	**0.099**	ug/L	0.026	26	13	35	16	KED
|	**Cu**	**63**	**0.265**	ug/L	0.011	3	48	1056	4	KED
|	**Cu**	**65**	**0.241**	ug/L	0.019	7	27	489	8	KED
|	**Zn**	**66**	**0.513**	ug/L	0.081	15	33	285	14	KED
|	**Zn**	**67**	**0.594**	ug/L	0.113	18	4	53	17	KED
⌊	**As**	**75**	**0.461**	ug/L	0.025	5	4	126	5	KED
	Y	**89**		ug/L			263626	272609	1	Standard
	Kr	**83**		ug/L			46	50	14	Standard
⌈>	**In-1**	**115**		ug/L			7645	7639	1	KED
|	**Cd**	**111**	**0.004**	ug/L	0.011	291	3	4	66	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.006	253	6	4	84	KED
⌈>	**In**	**115**		ug/L			437453	449705	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.003	229	109	86	70	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1168798	1	Standard
⌊	**Pb**	**208**	**0.054**	ug/L	0.004	7	605	4833	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0062-07RE1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 07:41:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	44416	2	Standard
	Cl	**37**		ug/L			5444164	5340160	2	Standard
⌈>	**Sc**	**45**		ug/L			458454	464655	1	Standard
|	**Cr**	**52**	**0.119**	ug/L	0.004	3	15942	18290	1	Standard
⌊	**Cr**	**53**	**0.239**	ug/L	0.012	5	279	787	2	Standard
⌈>	**Ge**	**72**		ug/L			33055	33629	0	KED
|	**Ni**	**60**	**0.137**	ug/L	0.014	9	65	254	6	KED
|	**Ni**	**62**	**0.125**	ug/L	0.046	36	13	41	24	KED
|	**Cu**	**63**	**0.415**	ug/L	0.012	3	48	1650	2	KED
|	**Cu**	**65**	**0.461**	ug/L	0.051	11	27	925	11	KED
|	**Zn**	**66**	**0.240**	ug/L	0.064	26	33	153	20	KED
|	**Zn**	**67**	**0.394**	ug/L	0.183	46	4	37	40	KED
⌊	**As**	**75**	**0.004**	ug/L	0.005	119	4	5	22	KED
	Y	**89**		ug/L			263626	269197	0	Standard
	Kr	**83**		ug/L			46	57	15	Standard
⌈>	**In-1**	**115**		ug/L			7645	7854	3	KED
|	**Cd**	**111**	**0.007**	ug/L	0.011	152	3	5	54	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.004	132	6	4	70	KED
⌈>	**In**	**115**		ug/L			437453	450662	0	Standard
⌊	**Ag**	**107**	**-0.004**	ug/L	0.000	10	109	45	15	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1144557	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	6	605	678	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0062-03RE1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 07:45:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27642	49968	3	Standard
	Cl	37		ug/L			5444164	5156154	3	Standard
⌈>	Sc	45		ug/L			458454	527004	1	Standard
|	Cr	52	0.224	ug/L	0.023	10	15942	22872	1	Standard
⌊	Cr	53	0.541	ug/L	0.005	0	279	1615	0	Standard
⌈>	Ge	72		ug/L			33055	33384	0	KED
|	Ni	60	0.120	ug/L	0.001	0	65	229	0	KED
|	Ni	62	0.129	ug/L	0.041	31	13	42	21	KED
|	Cu	63	0.267	ug/L	0.010	3	48	1071	3	KED
|	Cu	65	0.268	ug/L	0.006	2	27	546	2	KED
|	Zn	66	0.444	ug/L	0.005	1	33	253	0	KED
|	Zn	67	0.665	ug/L	0.096	14	4	59	13	KED
⌊	As	75	0.491	ug/L	0.024	4	4	135	4	KED
	Y	89		ug/L			263626	278012	2	Standard
	Kr	83		ug/L			46	48	11	Standard
⌈>	In-1	115		ug/L			7645	7827	2	KED
|	Cd	111	0.011	ug/L	0.003	24	3	6	9	KED
⌊	Cd	114	0.008	ug/L	0.007	89	6	11	41	KED
⌈>	In	115		ug/L			437453	455796	2	Standard
⌊	Ag	107	-0.004	ug/L	0.001	22	109	46	31	Standard
⌈>	Tb	159		ug/L			1136980	1167706	1	Standard
⌊	Pb	208	0.051	ug/L	0.001	1	605	4583	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0754-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 07:49:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27642	49176	3	Standard
	Cl	37		ug/L			5444164	5101734	3	Standard
⌈>	Sc	45		ug/L			458454	526641	3	Standard
|	Cr	52	0.140	ug/L	0.032	22	15942	21136	3	Standard
⌊	Cr	53	0.447	ug/L	0.011	2	279	1387	1	Standard
⌈>	Ge	72		ug/L			33055	33861	0	KED
|	Ni	60	0.125	ug/L	0.007	5	65	240	3	KED
|	Ni	62	0.147	ug/L	0.061	41	13	46	28	KED
|	Cu	63	0.262	ug/L	0.014	5	48	1068	5	KED
|	Cu	65	0.260	ug/L	0.013	4	27	537	4	KED
|	Zn	66	0.914	ug/L	0.071	7	33	493	7	KED
|	Zn	67	1.048	ug/L	0.196	18	4	92	17	KED
⌊	As	75	0.456	ug/L	0.037	8	4	127	7	KED
	Y	89		ug/L			263626	269411	1	Standard
	Kr	83		ug/L			46	49	16	Standard
⌈>	In-1	115		ug/L			7645	7846	2	KED
|	Cd	111	0.003	ug/L	0.005	134	3	4	26	KED
⌊	Cd	114	-0.007	ug/L	0.005	72	6	1	236	KED
⌈>	In	115		ug/L			437453	449389	1	Standard
⌊	Ag	107	-0.003	ug/L	0.001	19	109	52	22	Standard
⌈>	Tb	159		ug/L			1136980	1165640	1	Standard
⌊	Pb	208	0.055	ug/L	0.002	3	605	4900	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0754-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 07:54:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27642	49571	0	Standard
	Cl	37		ug/L			5444164	5164483	1	Standard
⌈>	Sc	45		ug/L			458454	528812	1	Standard
|	Cr	52	22.894	ug/L	0.225	0	15942	484953	2	Standard
⌊	Cr	53	22.998	ug/L	0.148	0	279	55510	1	Standard
⌈>	Ge	72		ug/L			33055	33917	0	KED
|	Ni	60	27.256	ug/L	0.387	1	65	37782	0	KED
|	Ni	62	27.282	ug/L	0.688	2	13	6107	1	KED
|	Cu	63	27.894	ug/L	0.419	1	48	108639	0	KED
|	Cu	65	28.255	ug/L	0.445	1	27	55478	0	KED
|	Zn	66	85.868	ug/L	0.857	0	33	43218	0	KED
|	Zn	67	79.691	ug/L	1.362	1	4	6722	1	KED
⌊	As	75	26.197	ug/L	0.094	0	4	7076	0	KED
	Y	89		ug/L			263626	273779	3	Standard
	Kr	83		ug/L			46	43	15	Standard
⌈>	In-1	115		ug/L			7645	7704	2	KED
|	Cd	111	27.014	ug/L	0.693	2	3	6939	0	KED
⌊	Cd	114	26.709	ug/L	0.828	3	6	18000	1	KED
⌈>	In	115		ug/L			437453	448494	1	Standard
⌊	Ag	107	25.515	ug/L	0.526	2	109	452588	2	Standard
⌈>	Tb	159		ug/L			1136980	1170013	1	Standard
⌊	Pb	208	27.641	ug/L	0.347	1	605	2151517	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0754-MSD1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 07:59:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27642	47881	1	Standard
	Cl	37		ug/L			5444164	5155281	3	Standard
>	Sc	45		ug/L			458454	521080	1	Standard
	Cr	52	22.984	ug/L	0.289	1	15942	479591	0	Standard
	Cr	53	23.012	ug/L	0.674	2	279	54722	2	Standard
>	Ge	72		ug/L			33055	33929	1	KED
	Ni	60	27.624	ug/L	0.427	1	65	38303	0	KED
	Ni	62	27.734	ug/L	1.084	3	13	6209	2	KED
	Cu	63	28.334	ug/L	0.242	0	48	110395	0	KED
	Cu	65	27.901	ug/L	0.455	1	27	54811	2	KED
	Zn	66	83.284	ug/L	1.892	2	33	41931	1	KED
	Zn	67	79.933	ug/L	0.184	0	4	6745	1	KED
	As	75	26.558	ug/L	0.105	0	4	7176	0	KED
	Y	89		ug/L			263626	274141	0	Standard
	Kr	83		ug/L			46	57	13	Standard
>	In-1	115		ug/L			7645	7821	2	KED
	Cd	111	26.881	ug/L	1.115	4	3	7007	2	KED
	Cd	114	26.506	ug/L	1.117	4	6	18128	2	KED
>	In	115		ug/L			437453	452311	0	Standard
	Ag	107	25.663	ug/L	0.457	1	109	459112	1	Standard
>	Tb	159		ug/L			1136980	1165357	0	Standard
	Pb	208	27.645	ug/L	0.276	0	605	2143552	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 08:03:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	28364	3	Standard
	Cl	**37**		ug/L			5444164	5374223	2	Standard
⎡>	**Sc**	**45**		ug/L			458454	448922	0	Standard
⎢	**Cr**	**52**	**0.038**	ug/L	0.014	36	15942	16267	1	Standard
⎣	**Cr**	**53**	**0.006**	ug/L	0.003	44	279	286	1	Standard
⎡>	**Ge**	**72**		ug/L			33055	33440	0	KED
⎢	**Ni**	**60**	**-0.028**	ug/L	0.000	0	65	28	0	KED
⎢	**Ni**	**62**	**-0.035**	ug/L	0.013	36	13	6	45	KED
⎢	**Cu**	**63**	**0.020**	ug/L	0.004	18	48	125	10	KED
⎢	**Cu**	**65**	**0.020**	ug/L	0.007	34	27	67	19	KED
⎢	**Zn**	**66**	**0.043**	ug/L	0.020	46	33	55	18	KED
⎢	**Zn**	**67**	**0.114**	ug/L	0.075	65	4	13	43	KED
⎣	**As**	**75**	**-0.006**	ug/L	0.004	66	4	3	31	KED
	Y	**89**		ug/L			263626	260194	0	Standard
	Kr	**83**		ug/L			46	45	4	Standard
⎡>	**In-1**	**115**		ug/L			7645	7614	1	KED
⎢	**Cd**	**111**	**0.011**	ug/L	0.013	117	3	6	55	KED
⎣	**Cd**	**114**	**0.002**	ug/L	0.003	155	6	7	25	KED
⎡>	**In**	**115**		ug/L			437453	434617	1	Standard
⎣	**Ag**	**107**	**0.003**	ug/L	0.001	44	109	157	12	Standard
⎡>	**Tb**	**159**		ug/L			1136980	1131323	1	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.000	62	605	643	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 08:07:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27642	28908	3	Standard
	Cl	37		ug/L			5444164	5563079	1	Standard
>	Sc	45		ug/L			458454	468208	1	Standard
	Cr	52	**48.947**	ug/L	0.439	0	15942	899361	1	Standard
	Cr	53	**48.418**	ug/L	1.559	3	279	103137	2	Standard
>	Ge	72		ug/L			33055	31130	13	KED
	Ni	60	**57.280**	ug/L	7.641	13	65	71948	1	KED
	Ni	62	**57.960**	ug/L	9.285	16	13	11725	1	KED
	Cu	63	**58.269**	ug/L	7.730	13	48	205798	1	KED
	Cu	65	**57.814**	ug/L	8.502	14	27	102804	1	KED
	Zn	66	**56.939**	ug/L	7.128	12	33	26023	2	KED
	Zn	67	**58.128**	ug/L	7.337	12	4	4450	1	KED
	As	75	**55.706**	ug/L	7.949	14	4	13629	0	KED
	Y	89		ug/L			263626	269414	0	Standard
	Kr	83		ug/L			46	64	6	Standard
>	In-1	115		ug/L			7645	7694	0	KED
	Cd	111	**53.496**	ug/L	0.166	0	3	13725	1	KED
	Cd	114	**52.652**	ug/L	0.902	1	6	35444	1	KED
>	In	115		ug/L			437453	442536	0	Standard
	Ag	107	**48.283**	ug/L	0.867	1	109	845031	1	Standard
>	Tb	159		ug/L			1136980	1142922	1	Standard
	Pb	208	**54.748**	ug/L	1.354	2	605	4161893	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 08:15:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	26864	3	Standard
	Cl	**37**		ug/L			5444164	5428699	2	Standard
⌈>	**Sc**	**45**		ug/L			458454	453900	0	Standard
|	**Cr**	**52**	**0.029**	ug/L	0.004	12	15942	16285	0	Standard
⌊	**Cr**	**53**	**-0.014**	ug/L	0.008	55	279	246	5	Standard
⌈>	**Ge**	**72**		ug/L			33055	33913	0	KED
|	**Ni**	**60**	**-0.030**	ug/L	0.007	22	65	26	34	KED
|	**Ni**	**62**	**-0.039**	ug/L	0.008	21	13	5	33	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.003	526	48	47	28	KED
|	**Cu**	**65**	**-0.005**	ug/L	0.002	38	27	19	20	KED
|	**Zn**	**66**	**-0.029**	ug/L	0.019	64	33	19	47	KED
|	**Zn**	**67**	**-0.039**	ug/L	0.013	33	4	1	86	KED
⌊	**As**	**75**	**-0.000**	ug/L	0.007	1540	4	4	43	KED
	Y	**89**		ug/L			263626	261506	1	Standard
	Kr	**83**		ug/L			46	47	8	Standard
⌈>	**In-1**	**115**		ug/L			7645	8012	2	KED
|	**Cd**	**111**	**0.014**	ug/L	0.005	35	3	6	20	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.001	29	6	3	35	KED
⌈>	**In**	**115**		ug/L			437453	437556	1	Standard
⌊	**Ag**	**107**	**0.009**	ug/L	0.005	55	109	269	31	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1110788	2	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.006	1669	605	613	75	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0133-01
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 08:19:35

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	58659	2	Standard
	Cl	**37**		ug/L			5444164	5636374	2	Standard
⌈>	**Sc**	**45**		ug/L			458454	477842	1	Standard
|	**Cr**	**52**	**0.990**	ug/L	0.075	7	15942	34839	3	Standard
⌊	**Cr**	**53**	**1.351**	ug/L	0.025	1	279	3219	1	Standard
⌈>	**Ge**	**72**		ug/L			33055	33365	0	KED
|	**Ni**	**60**	**0.762**	ug/L	0.020	2	65	1103	3	KED
|	**Ni**	**62**	**0.832**	ug/L	0.071	8	13	196	8	KED
|	**Cu**	**63**	**21.095**	ug/L	0.498	2	48	80837	1	KED
|	**Cu**	**65**	**21.168**	ug/L	0.148	0	27	40897	1	KED
|	**Zn**	**66**	**279.934**	ug/L	3.815	1	33	138535	1	KED
|	**Zn**	**67**	**258.175**	ug/L	5.700	2	4	21412	1	KED
⌊	**As**	**75**	**7.588**	ug/L	0.132	1	4	2019	1	KED
	Y	**89**		ug/L			263626	269906	1	Standard
	Kr	**83**		ug/L			46	41	13	Standard
⌈>	**In-1**	**115**		ug/L			7645	7901	1	KED
|	**Cd**	**111**	**0.147**	ug/L	0.025	17	3	41	14	KED
⌊	**Cd**	**114**	**0.118**	ug/L	0.026	22	6	87	18	KED
⌈>	**In**	**115**		ug/L			437453	455655	2	Standard
⌊	**Ag**	**107**	**0.009**	ug/L	0.000	3	109	283	2	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1157879	1	Standard
⌊	**Pb**	**208**	**1.129**	ug/L	0.017	1	605	87532	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0133-02
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 08:24:01

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	48375	2	Standard
	Cl	**37**		ug/L			5444164	5413995	2	Standard
⌈>	**Sc**	**45**		ug/L			458454	461415	2	Standard
|	**Cr**	**52**	**0.402**	ug/L	0.016	4	15942	23184	2	Standard
⌊	**Cr**	**53**	**0.364**	ug/L	0.012	3	279	1042	3	Standard
⌈>	**Ge**	**72**		ug/L			33055	34114	2	KED
|	**Ni**	**60**	**0.328**	ug/L	0.011	3	65	523	4	KED
|	**Ni**	**62**	**0.320**	ug/L	0.040	12	13	86	12	KED
|	**Cu**	**63**	**3.717**	ug/L	0.068	1	48	14601	0	KED
|	**Cu**	**65**	**3.741**	ug/L	0.083	2	27	7411	0	KED
|	**Zn**	**66**	**29.332**	ug/L	1.049	3	33	14866	2	KED
|	**Zn**	**67**	**27.330**	ug/L	0.665	2	4	2321	2	KED
⌊	**As**	**75**	**2.583**	ug/L	0.057	2	4	706	3	KED
	Y	**89**		ug/L			263626	268088	1	Standard
	Kr	**83**		ug/L			46	44	29	Standard
⌈>	**In-1**	**115**		ug/L			7645	7943	0	KED
|	**Cd**	**111**	**0.038**	ug/L	0.010	25	3	13	18	KED
⌊	**Cd**	**114**	**0.012**	ug/L	0.007	57	6	14	31	KED
⌈>	**In**	**115**		ug/L			437453	443135	0	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	48	109	150	12	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1141276	0	Standard
⌊	**Pb**	**208**	**0.285**	ug/L	0.002	0	605	22263	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0133-03
Sample Dil Factor:
Comments: DEL
Sample Date/Time: Friday, April 28, 2023 08:28:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	48385	2	Standard
	Cl	**37**		ug/L			5444164	5400581	2	Standard
⌈>	**Sc**	**45**		ug/L			458454	469692	3	Standard
|	**Cr**	**52**	**1.249**	ug/L	0.067	5	15942	38922	3	Standard
⌊	**Cr**	**53**	**1.321**	ug/L	0.045	3	279	3100	4	Standard
⌈>	**Ge**	**72**		ug/L			33055	33766	0	KED
|	**Ni**	**60**	**2.187**	ug/L	0.084	3	65	3080	3	KED
|	**Ni**	**62**	**2.131**	ug/L	0.102	4	13	488	5	KED
|	**Cu**	**63**	**10.712**	ug/L	0.025	0	48	41568	0	KED
|	**Cu**	**65**	**10.687**	ug/L	0.242	2	27	20908	1	KED
|	**Zn**	**66**	**175.862**	ug/L	0.830	0	33	88093	1	KED
|	**Zn**	**67**	**161.912**	ug/L	4.999	3	4	13591	2	KED
⌊	**As**	**75**	**0.520**	ug/L	0.047	9	4	144	9	KED
	Y	**89**		ug/L			263626	266655	2	Standard
	Kr	**83**		ug/L			46	41	2	Standard
⌈>	**In-1**	**115**		ug/L			7645	7916	3	KED
|	**Cd**	**111**	**0.205**	ug/L	0.036	17	3	57	15	KED
⌊	**Cd**	**114**	**0.206**	ug/L	0.045	21	6	148	18	KED
⌈>	**In**	**115**		ug/L			437453	445865	2	Standard
⌊	**Ag**	**107**	**0.040**	ug/L	0.054	132	109	831	115	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1136881	2	Standard
⌊	**Pb**	**208**	**2.422**	ug/L	0.069	2	605	183692	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0135-02
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 08:33:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			27642	50849	3	Standard
Cl	37		ug/L			5444164	5229310	3	Standard
> Sc	45		ug/L			458454	574071	1	Standard
Cr	52	0.184	ug/L	0.023	12	15942	24021	1	Standard
Cr	53	0.830	ug/L	0.017	2	279	2511	0	Standard
> Ge	72		ug/L			33055	33143	0	KED
Ni	60	0.241	ug/L	0.029	12	65	391	9	KED
Ni	62	0.221	ug/L	0.050	22	13	62	16	KED
Cu	63	0.582	ug/L	0.032	5	48	2264	5	KED
Cu	65	0.588	ug/L	0.022	3	27	1156	3	KED
Zn	66	1.623	ug/L	0.136	8	33	831	7	KED
Zn	67	1.812	ug/L	0.200	11	4	153	10	KED
As	75	0.738	ug/L	0.019	2	4	199	2	KED
Y	89		ug/L			263626	281569	0	Standard
Kr	83		ug/L			46	44	20	Standard
> In-1	115		ug/L			7645	7687	1	KED
Cd	111	0.010	ug/L	0.004	38	3	5	16	KED
Cd	114	0.006	ug/L	0.004	70	6	10	25	KED
> In	115		ug/L			437453	440740	0	Standard
Ag	107	-0.003	ug/L	0.000	4	109	66	2	Standard
> Tb	159		ug/L			1136980	1185265	1	Standard
Pb	208	0.056	ug/L	0.001	2	605	5075	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0509-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 08:37:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			27642	54626	3	Standard
Cl	37		ug/L			5444164	5191755	3	Standard
> Sc	45		ug/L			458454	575706	2	Standard
Cr	52	0.178	ug/L	0.041	22	15942	23953	2	Standard
Cr	53	0.828	ug/L	0.011	1	279	2513	2	Standard
> Ge	72		ug/L			33055	32797	1	KED
Ni	60	0.199	ug/L	0.002	0	65	331	0	KED
Ni	62	0.257	ug/L	0.078	30	13	69	23	KED
Cu	63	0.387	ug/L	0.008	2	48	1505	1	KED
Cu	65	0.382	ug/L	0.019	4	27	753	4	KED
Zn	66	1.201	ug/L	0.081	6	33	617	5	KED
Zn	67	1.388	ug/L	0.247	17	4	117	16	KED
As	75	0.738	ug/L	0.027	3	4	197	2	KED
Y	89		ug/L			263626	275073	2	Standard
Kr	83		ug/L			46	46	21	Standard
> In-1	115		ug/L			7645	7514	1	KED
Cd	111	0.017	ug/L	0.006	34	3	7	19	KED
Cd	114	0.003	ug/L	0.007	193	6	8	51	KED
> In	115		ug/L			437453	451989	2	Standard
Ag	107	-0.003	ug/L	0.000	13	109	62	13	Standard
> Tb	159		ug/L			1136980	1162738	0	Standard
Pb	208	0.037	ug/L	0.000	1	605	3467	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0509-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 08:42:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	52290	2	Standard
	Cl	**37**		ug/L			5444164	5169347	2	Standard
⌈>	**Sc**	**45**		ug/L			458454	567248	0	Standard
|	**Cr**	**52**	**21.768**	ug/L	0.417	1	15942	495596	2	Standard
⌊	**Cr**	**53**	**21.885**	ug/L	0.321	1	279	56678	0	Standard
⌈>	**Ge**	**72**		ug/L			33055	33430	1	KED
|	**Ni**	**60**	**27.860**	ug/L	0.469	1	65	38063	1	KED
|	**Ni**	**62**	**27.435**	ug/L	0.296	1	13	6053	1	KED
|	**Cu**	**63**	**28.421**	ug/L	0.443	1	48	109109	1	KED
|	**Cu**	**65**	**28.508**	ug/L	0.588	2	27	55168	0	KED
|	**Zn**	**66**	**86.611**	ug/L	2.255	2	33	42962	1	KED
|	**Zn**	**67**	**81.284**	ug/L	2.199	2	4	6757	1	KED
⌊	**As**	**75**	**26.929**	ug/L	0.251	0	4	7168	0	KED
	Y	**89**		ug/L			263626	272871	2	Standard
	Kr	**83**		ug/L			46	49	6	Standard
⌈>	**In-1**	**115**		ug/L			7645	7747	3	KED
|	**Cd**	**111**	**26.823**	ug/L	1.226	4	3	6922	0	KED
⌊	**Cd**	**114**	**26.703**	ug/L	1.575	5	6	18077	2	KED
⌈>	**In**	**115**		ug/L			437453	454894	2	Standard
⌊	**Ag**	**107**	**24.869**	ug/L	0.742	2	109	447262	1	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1175241	0	Standard
⌊	**Pb**	**208**	**27.735**	ug/L	0.077	0	605	2168776	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0262-01
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 08:47:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27642	51698	3	Standard
	Cl	37		ug/L			5444164	5892871	4	Standard
⌈>	Sc	45		ug/L			458454	554847	2	Standard
|	Cr	52	0.120	ug/L	0.029	24	15942	21841	1	Standard
⌊	Cr	53	1.526	ug/L	0.030	1	279	4179	1	Standard
⌈>	Ge	72		ug/L			33055	32389	1	KED
|	Ni	60	3.225	ug/L	0.025	0	65	4326	0	KED
|	Ni	62	3.160	ug/L	0.102	3	13	687	1	KED
|	Cu	63	0.524	ug/L	0.032	6	48	1994	6	KED
|	Cu	65	0.522	ug/L	0.034	6	27	1004	5	KED
|	Zn	66	4.908	ug/L	0.033	0	33	2390	0	KED
|	Zn	67	5.675	ug/L	0.474	8	4	460	7	KED
⌊	As	75	0.600	ug/L	0.033	5	4	159	4	KED
	Y	89		ug/L			263626	274458	1	Standard
	Kr	83		ug/L			46	45	18	Standard
⌈>	In-1	115		ug/L			7645	7629	1	KED
|	Cd	111	0.036	ug/L	0.007	18	3	12	13	KED
⌊	Cd	114	0.034	ug/L	0.014	41	6	28	32	KED
⌈>	In	115		ug/L			437453	430318	1	Standard
⌊	Ag	107	0.000	ug/L	0.001	289	109	115	18	Standard
⌈>	Tb	159		ug/L			1136980	1153004	2	Standard
⌊	Pb	208	0.030	ug/L	0.001	2	605	2946	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0717-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 08:52:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27642	50065	2	Standard
	Cl	37		ug/L			5444164	5906216	3	Standard
⌈>	Sc	45		ug/L			458454	544666	2	Standard
|	Cr	52	0.028	ug/L	0.009	31	15942	19524	1	Standard
⌊	Cr	53	1.420	ug/L	0.076	5	279	3839	3	Standard
⌈>	Ge	72		ug/L			33055	31632	2	KED
|	Ni	60	3.028	ug/L	0.072	2	65	3968	0	KED
|	Ni	62	3.232	ug/L	0.118	3	13	686	2	KED
|	Cu	63	0.504	ug/L	0.036	7	48	1874	4	KED
|	Cu	65	0.472	ug/L	0.043	9	27	890	8	KED
|	Zn	66	2.444	ug/L	0.127	5	33	1177	3	KED
|	Zn	67	3.708	ug/L	0.175	4	4	295	6	KED
⌊	As	75	0.612	ug/L	0.031	5	4	158	3	KED
	Y	89		ug/L			263626	278212	2	Standard
	Kr	83		ug/L			46	50	19	Standard
⌈>	In-1	115		ug/L			7645	7352	1	KED
|	Cd	111	0.034	ug/L	0.007	20	3	11	14	KED
⌊	Cd	114	0.015	ug/L	0.014	97	6	15	60	KED
⌈>	In	115		ug/L			437453	442091	1	Standard
⌊	Ag	107	-0.002	ug/L	0.000	26	109	79	8	Standard
⌈>	Tb	159		ug/L			1136980	1157345	1	Standard
⌊	Pb	208	0.022	ug/L	0.000	1	605	2308	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0717-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 08:57:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27642	48203	2	Standard
	Cl	37		ug/L			5444164	5890598	4	Standard
>	Sc	45		ug/L			458454	541501	1	Standard
	Cr	52	19.881	ug/L	0.107	0	15942	433700	1	Standard
	Cr	53	20.945	ug/L	0.470	2	279	51806	3	Standard
>	Ge	72		ug/L			33055	31242	1	KED
	Ni	60	29.323	ug/L	0.315	1	65	37438	0	KED
	Ni	62	29.310	ug/L	0.864	2	13	6044	3	KED
	Cu	63	26.218	ug/L	0.083	0	48	94073	1	KED
	Cu	65	26.427	ug/L	0.266	1	27	47799	0	KED
	Zn	66	81.916	ug/L	0.540	0	33	37983	1	KED
	Zn	67	78.430	ug/L	2.501	3	4	6093	2	KED
	As	75	26.303	ug/L	0.296	1	4	6544	2	KED
	Y	89		ug/L			263626	266970	1	Standard
	Kr	83		ug/L			46	62	28	Standard
>	In-1	115		ug/L			7645	7372	2	KED
	Cd	111	25.262	ug/L	0.391	1	3	6209	1	KED
	Cd	114	25.556	ug/L	0.431	1	6	16482	1	KED
>	In	115		ug/L			437453	434019	1	Standard
	Ag	107	22.733	ug/L	0.105	0	109	390290	2	Standard
>	Tb	159		ug/L			1136980	1139513	1	Standard
	Pb	208	26.395	ug/L	0.387	1	605	2001109	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLJ
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 09:01:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	27849	3	Standard
	Cl	**37**		ug/L			5444164	5313982	2	Standard
⌈>	**Sc**	**45**		ug/L			458454	440679	1	Standard
|	**Cr**	**52**	**0.033**	ug/L	0.010	29	15942	15888	1	Standard
⌊	**Cr**	**53**	**0.057**	ug/L	0.006	10	279	381	2	Standard
⌈>	**Ge**	**72**		ug/L			33055	34094	2	KED
|	**Ni**	**60**	**-0.028**	ug/L	0.009	33	65	28	43	KED
|	**Ni**	**62**	**-0.042**	ug/L	0.009	22	13	5	43	KED
|	**Cu**	**63**	**0.024**	ug/L	0.001	2	48	142	2	KED
|	**Cu**	**65**	**0.022**	ug/L	0.008	36	27	73	21	KED
|	**Zn**	**66**	**0.048**	ug/L	0.026	54	33	59	24	KED
|	**Zn**	**67**	**0.021**	ug/L	0.048	224	4	6	62	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.006	349	4	4	33	KED
	Y	**89**		ug/L			263626	265319	4	Standard
	Kr	**83**		ug/L			46	45	42	Standard
⌈>	**In-1**	**115**		ug/L			7645	7763	2	KED
|	**Cd**	**111**	**0.002**	ug/L	0.015	620	3	3	100	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.009	213	6	9	69	KED
⌈>	**In**	**115**		ug/L			437453	450614	0	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	309	109	117	11	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1127531	4	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	144	605	619	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVJ
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 09:06:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	29075	5	Standard
	Cl	**37**		ug/L			5444164	5592610	4	Standard
⌈>	**Sc**	**45**		ug/L			458454	458554	2	Standard
|	**Cr**	**52**	**49.433**	ug/L	1.107	2	15942	889170	1	Standard
⌊	**Cr**	**53**	**48.789**	ug/L	0.737	1	279	101791	2	Standard
⌈>	**Ge**	**72**		ug/L			33055	32696	2	KED
|	**Ni**	**60**	**53.563**	ug/L	1.896	3	65	71471	0	KED
|	**Ni**	**62**	**53.323**	ug/L	2.183	4	13	11487	1	KED
|	**Cu**	**63**	**54.006**	ug/L	1.467	2	48	202641	0	KED
|	**Cu**	**65**	**54.204**	ug/L	2.340	4	27	102504	1	KED
|	**Zn**	**66**	**53.342**	ug/L	2.740	5	33	25872	2	KED
|	**Zn**	**67**	**52.711**	ug/L	2.387	4	4	4284	2	KED
⌊	**As**	**75**	**51.817**	ug/L	1.615	3	4	13480	1	KED
	Y	**89**		ug/L			263626	266807	1	Standard
	Kr	**83**		ug/L			46	52	17	Standard
⌈>	**In-1**	**115**		ug/L			7645	7514	0	KED
|	**Cd**	**111**	**54.284**	ug/L	1.168	2	3	13599	1	KED
⌊	**Cd**	**114**	**53.784**	ug/L	1.145	2	6	35360	2	KED
⌈>	**In**	**115**		ug/L			437453	451563	1	Standard
⌊	**Ag**	**107**	**47.489**	ug/L	1.702	3	109	848163	4	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1151162	0	Standard
⌊	**Pb**	**208**	**55.759**	ug/L	0.837	1	605	4270110	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBJ
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 09:13:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	27340	2	Standard
	Cl	**37**		ug/L			5444164	5549969	2	Standard
⌈>	**Sc**	**45**		ug/L			458454	456059	0	Standard
|	**Cr**	**52**	**-0.008**	ug/L	0.023	286	15942	15721	2	Standard
⌊	**Cr**	**53**	**-0.028**	ug/L	0.008	29	279	220	7	Standard
⌈>	**Ge**	**72**		ug/L			33055	33863	0	KED
|	**Ni**	**60**	**-0.034**	ug/L	0.006	16	65	20	39	KED
|	**Ni**	**62**	**-0.053**	ug/L	0.005	9	13	2	43	KED
|	**Cu**	**63**	**0.001**	ug/L	0.003	307	48	53	18	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.003	148	27	24	27	KED
|	**Zn**	**66**	**-0.024**	ug/L	0.012	47	33	22	26	KED
|	**Zn**	**67**	**0.021**	ug/L	0.013	60	4	6	17	KED
⌊	**As**	**75**	**0.000**	ug/L	0.006	3845	4	4	36	KED
	Y	**89**		ug/L			263626	262920	3	Standard
	Kr	**83**		ug/L			46	47	4	Standard
⌈>	**In-1**	**115**		ug/L			7645	7966	2	KED
|	**Cd**	**111**	**0.020**	ug/L	0.004	20	3	8	11	KED
⌊	**Cd**	**114**	**0.009**	ug/L	0.009	100	6	12	48	KED
⌈>	**In**	**115**		ug/L			437453	456600	1	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.002	38	109	205	18	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1140147	2	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	8	605	350	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0206-01
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 09:17:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27642	59608	5	Standard
	Cl	37		ug/L			5444164	7627636	1	Standard
⌈>	Sc	45		ug/L			458454	523934	0	Standard
|	Cr	52	8.669	ug/L	0.127	1	15942	193262	1	Standard
⌊	Cr	53	10.900	ug/L	0.216	1	279	26233	1	Standard
⌈>	Ge	72		ug/L			33055	32803	1	KED
|	Ni	60	5.977	ug/L	0.119	1	65	8063	1	KED
|	Ni	62	6.299	ug/L	0.346	5	13	1374	4	KED
|	Cu	63	33.322	ug/L	0.662	1	48	125504	1	KED
|	Cu	65	33.983	ug/L	0.215	0	27	64538	1	KED
|	Zn	66	125.707	ug/L	2.761	2	33	61188	3	KED
|	Zn	67	118.307	ug/L	1.072	0	4	9649	1	KED
⌊	As	75	2.292	ug/L	0.019	0	4	603	2	KED
	Y	89		ug/L			263626	296158	3	Standard
	Kr	83		ug/L			46	60	11	Standard
⌈>	In-1	115		ug/L			7645	7535	0	KED
|	Cd	111	0.176	ug/L	0.046	26	3	47	25	KED
⌊	Cd	114	0.200	ug/L	0.010	5	6	138	4	KED
⌈>	In	115		ug/L			437453	439173	0	Standard
⌊	Ag	107	0.041	ug/L	0.002	5	109	815	4	Standard
⌈>	Tb	159		ug/L			1136980	1168876	1	Standard
⌊	Pb	208	21.398	ug/L	0.334	1	605	1664109	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0206-03
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 09:22:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27642	52376	2	Standard
	Cl	37		ug/L			5444164	7670624	2	Standard
>	Sc	45		ug/L			458454	508776	0	Standard
	Cr	52	3.576	ug/L	0.106	2	15942	87812	2	Standard
	Cr	53	6.480	ug/L	0.230	3	279	15273	4	Standard
>	Ge	72		ug/L			33055	32992	1	KED
	Ni	60	5.724	ug/L	0.105	1	65	7771	2	KED
	Ni	62	5.963	ug/L	0.221	3	13	1309	5	KED
	Cu	63	9.811	ug/L	0.275	2	48	37214	4	KED
	Cu	65	9.780	ug/L	0.273	2	27	18697	2	KED
	Zn	66	15.226	ug/L	0.261	1	33	7481	1	KED
	Zn	67	16.428	ug/L	0.737	4	4	1351	5	KED
	As	75	0.569	ug/L	0.060	10	4	153	9	KED
	Y	89		ug/L			263626	274154	1	Standard
	Kr	83		ug/L			46	52	12	Standard
>	In-1	115		ug/L			7645	7396	2	KED
	Cd	111	0.035	ug/L	0.024	67	3	11	49	KED
	Cd	114	0.030	ug/L	0.014	45	6	25	35	KED
>	In	115		ug/L			437453	448439	3	Standard
	Ag	107	0.008	ug/L	0.000	3	109	252	2	Standard
>	Tb	159		ug/L			1136980	1168273	1	Standard
	Pb	208	1.849	ug/L	0.032	1	605	144288	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0206-05
Sample Dil Factor: 2
Comments:
Sample Date/Time: Friday, April 28, 2023 09:26:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27642	48722	3	Standard
	Cl	37		ug/L			5444164	6581514	2	Standard
>	Sc	45		ug/L			458454	497441	1	Standard
	Cr	52	5.252	ug/L	0.102	1	15942	117957	1	Standard
	Cr	53	6.912	ug/L	0.071	1	279	15907	2	Standard
>	Ge	72		ug/L			33055	33033	0	KED
	Ni	60	6.252	ug/L	0.140	2	65	8490	1	KED
	Ni	62	6.220	ug/L	0.208	3	13	1367	3	KED
	Cu	63	20.244	ug/L	0.189	0	48	76812	1	KED
	Cu	65	19.813	ug/L	0.418	2	27	37901	2	KED
	Zn	66	84.258	ug/L	0.596	0	33	41306	0	KED
	Zn	67	79.791	ug/L	1.675	2	4	6555	1	KED
	As	75	1.376	ug/L	0.021	1	4	366	1	KED
	Y	89		ug/L			263626	284049	1	Standard
	Kr	83		ug/L			46	50	28	Standard
>	In-1	115		ug/L			7645	7535	2	KED
	Cd	111	0.142	ug/L	0.025	17	3	38	16	KED
	Cd	114	0.103	ug/L	0.017	16	6	74	14	KED
>	In	115		ug/L			437453	452547	2	Standard
	Ag	107	0.019	ug/L	0.003	15	109	457	9	Standard
>	Tb	159		ug/L			1136980	1163049	1	Standard
	Pb	208	14.972	ug/L	0.341	2	605	1158757	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0205-01
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 09:31:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27642	57098	1	Standard
	Cl	37		ug/L			5444164	7689540	3	Standard
⌈>	Sc	45		ug/L			458454	514288	0	Standard
|	Cr	52	7.051	ug/L	0.229	3	15942	157608	2	Standard
⌊	Cr	53	9.529	ug/L	0.238	2	279	22553	2	Standard
⌈>	Ge	72		ug/L			33055	32478	1	KED
|	Ni	60	4.263	ug/L	0.059	1	65	5712	0	KED
|	Ni	62	4.278	ug/L	0.201	4	13	928	5	KED
|	Cu	63	20.249	ug/L	0.363	1	48	75532	1	KED
|	Cu	65	20.276	ug/L	0.288	1	27	38135	2	KED
|	Zn	66	64.864	ug/L	1.366	2	33	31267	1	KED
|	Zn	67	61.636	ug/L	0.970	1	4	4979	1	KED
⌊	As	75	1.838	ug/L	0.124	6	4	479	5	KED
	Y	89		ug/L			263626	276137	4	Standard
	Kr	83		ug/L			46	43	13	Standard
⌈>	In-1	115		ug/L			7645	7617	4	KED
|	Cd	111	0.083	ug/L	0.006	7	3	24	2	KED
⌊	Cd	114	0.058	ug/L	0.018	30	6	45	28	KED
⌈>	In	115		ug/L			437453	434000	1	Standard
⌊	Ag	107	0.021	ug/L	0.001	2	109	466	2	Standard
⌈>	Tb	159		ug/L			1136980	1156688	1	Standard
⌊	Pb	208	4.882	ug/L	0.123	2	605	376147	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0205-03
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 09:35:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	54503	2	Standard
	Cl	**37**		ug/L			5444164	7576570	2	Standard
⌈>	**Sc**	**45**		ug/L			458454	510028	0	Standard
|	**Cr**	**52**	**6.035**	ug/L	0.061	1	15942	136341	0	Standard
⌊	**Cr**	**53**	**8.761**	ug/L	0.067	0	279	20587	0	Standard
⌈>	**Ge**	**72**		ug/L			33055	32363	1	KED
|	**Ni**	**60**	**3.344**	ug/L	0.045	1	65	4479	0	KED
|	**Ni**	**62**	**3.457**	ug/L	0.043	1	13	750	1	KED
|	**Cu**	**63**	**14.018**	ug/L	0.118	0	48	52122	0	KED
|	**Cu**	**65**	**14.173**	ug/L	0.196	1	27	26570	2	KED
|	**Zn**	**66**	**44.124**	ug/L	0.274	0	33	21207	0	KED
|	**Zn**	**67**	**41.673**	ug/L	1.003	2	4	3356	2	KED
⌊	**As**	**75**	**1.546**	ug/L	0.055	3	4	402	4	KED
	Y	**89**		ug/L			263626	276876	0	Standard
	Kr	**83**		ug/L			46	33	12	Standard
⌈>	**In-1**	**115**		ug/L			7645	7200	2	KED
|	**Cd**	**111**	**0.034**	ug/L	0.003	9	3	11	4	KED
⌊	**Cd**	**114**	**0.028**	ug/L	0.028	100	6	23	74	KED
⌈>	**In**	**115**		ug/L			437453	439455	2	Standard
⌊	**Ag**	**107**	**0.009**	ug/L	0.001	12	109	270	4	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1170770	1	Standard
⌊	**Pb**	**208**	**2.029**	ug/L	0.029	1	605	158639	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0205-05
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 09:40:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27642	57939	2	Standard
	Cl	37		ug/L			5444164	7825750	4	Standard
>	Sc	45		ug/L			458454	516964	2	Standard
	Cr	52	7.227	ug/L	0.122	1	15942	161910	1	Standard
	Cr	53	10.049	ug/L	0.147	1	279	23885	1	Standard
>	Ge	72		ug/L			33055	32155	1	KED
	Ni	60	4.256	ug/L	0.186	4	65	5646	3	KED
	Ni	62	4.141	ug/L	0.168	4	13	890	2	KED
	Cu	63	20.271	ug/L	0.447	2	48	74852	0	KED
	Cu	65	20.212	ug/L	0.562	2	27	37625	1	KED
	Zn	66	62.555	ug/L	2.073	3	33	29850	1	KED
	Zn	67	58.946	ug/L	1.211	2	4	4714	0	KED
	As	75	1.874	ug/L	0.043	2	4	484	3	KED
	Y	89		ug/L			263626	284285	0	Standard
	Kr	83		ug/L			46	47	28	Standard
>	In-1	115		ug/L			7645	7489	2	KED
	Cd	111	0.050	ug/L	0.019	38	3	15	31	KED
	Cd	114	0.067	ug/L	0.031	45	6	50	40	KED
>	In	115		ug/L			437453	440706	1	Standard
	Ag	107	0.017	ug/L	0.001	8	109	406	4	Standard
>	Tb	159		ug/L			1136980	1159950	0	Standard
	Pb	208	4.835	ug/L	0.060	1	605	373640	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0202-01
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 09:44:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27642	49507	1	Standard
	Cl	37		ug/L			5444164	5952695	2	Standard
>	Sc	45		ug/L			458454	483574	3	Standard
	Cr	52	0.273	ug/L	0.048	17	15942	21894	1	Standard
	Cr	53	0.823	ug/L	0.014	1	279	2099	1	Standard
>	Ge	72		ug/L			33055	33901	0	KED
	Ni	60	0.742	ug/L	0.029	3	65	1093	3	KED
	Ni	62	0.829	ug/L	0.081	9	13	199	9	KED
	Cu	63	30.469	ug/L	0.472	1	48	118618	1	KED
	Cu	65	30.775	ug/L	0.455	1	27	60398	1	KED
	Zn	66	89.064	ug/L	0.983	1	33	44807	1	KED
	Zn	67	81.937	ug/L	2.336	2	4	6908	2	KED
	As	75	0.458	ug/L	0.013	2	4	128	2	KED
	Y	89		ug/L			263626	278525	2	Standard
	Kr	83		ug/L			46	43	22	Standard
>	In-1	115		ug/L			7645	8012	3	KED
	Cd	111	0.121	ug/L	0.006	5	3	35	7	KED
	Cd	114	0.100	ug/L	0.010	9	6	76	11	KED
>	In	115		ug/L			437453	451734	3	Standard
	Ag	107	0.000	ug/L	0.000	91	109	120	6	Standard
>	Tb	159		ug/L			1136980	1174620	1	Standard
	Pb	208	0.175	ug/L	0.005	2	605	14259	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0659-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 09:49:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27642	50323	2	Standard
	Cl	37		ug/L			5444164	6001725	3	Standard
>	Sc	45		ug/L			458454	472453	2	Standard
	Cr	52	0.289	ug/L	0.011	3	15942	21687	2	Standard
	Cr	53	0.700	ug/L	0.005	0	279	1787	1	Standard
>	Ge	72		ug/L			33055	34372	0	KED
	Ni	60	0.762	ug/L	0.038	5	65	1136	4	KED
	Ni	62	0.842	ug/L	0.058	6	13	205	6	KED
	Cu	63	31.667	ug/L	0.590	1	48	124989	1	KED
	Cu	65	31.874	ug/L	0.245	0	27	63426	0	KED
	Zn	66	92.410	ug/L	1.416	1	33	47135	1	KED
	Zn	67	84.950	ug/L	2.521	2	4	7262	3	KED
	As	75	0.458	ug/L	0.033	7	4	130	7	KED
	Y	89		ug/L			263626	267633	5	Standard
	Kr	83		ug/L			46	54	14	Standard
>	In-1	115		ug/L			7645	7903	0	KED
	Cd	111	0.118	ug/L	0.011	9	3	34	8	KED
	Cd	114	0.092	ug/L	0.016	17	6	69	14	KED
>	In	115		ug/L			437453	460059	2	Standard
	Ag	107	0.000	ug/L	0.001	6456	109	115	17	Standard
>	Tb	159		ug/L			1136980	1161893	2	Standard
	Pb	208	0.179	ug/L	0.007	3	605	14467	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0659-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 09:54:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27642	48103	3	Standard
	Cl	37		ug/L			5444164	6045641	2	Standard
>	Sc	45		ug/L			458454	473185	1	Standard
	Cr	52	25.171	ug/L	0.418	1	15942	475414	1	Standard
	Cr	53	25.235	ug/L	0.239	0	279	54471	1	Standard
>	Ge	72		ug/L			33055	34238	4	KED
	Ni	60	27.141	ug/L	1.100	4	65	37939	0	KED
	Ni	62	27.198	ug/L	0.738	2	13	6142	1	KED
	Cu	63	56.779	ug/L	1.618	2	48	223022	1	KED
	Cu	65	56.565	ug/L	1.574	2	27	112012	1	KED
	Zn	66	166.109	ug/L	5.734	3	33	84286	0	KED
	Zn	67	156.999	ug/L	7.399	4	4	13347	1	KED
	As	75	25.560	ug/L	0.907	3	4	6962	0	KED
	Y	89		ug/L			263626	275405	0	Standard
	Kr	83		ug/L			46	55	7	Standard
>	In-1	115		ug/L			7645	8014	1	KED
	Cd	111	25.600	ug/L	0.802	3	3	6842	2	KED
	Cd	114	25.710	ug/L	0.272	1	6	18031	1	KED
>	In	115		ug/L			437453	460121	1	Standard
	Ag	107	24.642	ug/L	0.383	1	109	448377	0	Standard
>	Tb	159		ug/L			1136980	1177650	1	Standard
	Pb	208	27.252	ug/L	0.407	1	605	2135227	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLK
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 09:58:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	29328	2	Standard
	Cl	**37**		ug/L			5444164	5919104	3	Standard
⌈>	**Sc**	**45**		ug/L			458454	449694	1	Standard
|	**Cr**	**52**	**0.044**	ug/L	0.030	68	15942	16400	2	Standard
⌊	**Cr**	**53**	**0.214**	ug/L	0.013	6	279	709	2	Standard
⌈>	**Ge**	**72**		ug/L			33055	33559	2	KED
|	**Ni**	**60**	**-0.033**	ug/L	0.004	11	65	20	27	KED
|	**Ni**	**62**	**-0.033**	ug/L	0.004	13	13	6	15	KED
|	**Cu**	**63**	**0.018**	ug/L	0.002	8	48	118	4	KED
|	**Cu**	**65**	**0.025**	ug/L	0.001	5	27	76	3	KED
|	**Zn**	**66**	**0.031**	ug/L	0.029	94	33	49	29	KED
|	**Zn**	**67**	**0.105**	ug/L	0.065	62	4	13	42	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.004	296	4	4	29	KED
	Y	**89**		ug/L			263626	264674	2	Standard
	Kr	**83**		ug/L			46	44	9	Standard
⌈>	**In-1**	**115**		ug/L			7645	7675	2	KED
|	**Cd**	**111**	**0.010**	ug/L	0.010	98	3	5	44	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.002	91	6	5	23	KED
⌈>	**In**	**115**		ug/L			437453	447823	2	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.001	274	109	106	19	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1135724	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.001	193	605	634	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVK
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 10:03:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	28881	3	Standard
	Cl	**37**		ug/L			5444164	5837037	2	Standard
⌈>	**Sc**	**45**		ug/L			458454	461826	0	Standard
|	**Cr**	**52**	**50.357**	ug/L	0.592	1	15942	912234	0	Standard
⌊	**Cr**	**53**	**49.556**	ug/L	0.827	1	279	104135	1	Standard
⌈>	**Ge**	**72**		ug/L			33055	33716	0	KED
|	**Ni**	**60**	**52.616**	ug/L	0.237	0	65	72448	0	KED
|	**Ni**	**62**	**51.994**	ug/L	0.725	1	13	11558	0	KED
|	**Cu**	**63**	**53.087**	ug/L	1.060	1	48	205514	2	KED
|	**Cu**	**65**	**52.885**	ug/L	0.528	0	27	103205	0	KED
|	**Zn**	**66**	**53.382**	ug/L	0.423	0	33	26722	0	KED
|	**Zn**	**67**	**51.405**	ug/L	1.907	3	4	4311	3	KED
⌊	**As**	**75**	**51.341**	ug/L	0.525	1	4	13780	0	KED
	Y	**89**		ug/L			263626	267856	1	Standard
	Kr	**83**		ug/L			46	47	10	Standard
⌈>	**In-1**	**115**		ug/L			7645	7800	2	KED
|	**Cd**	**111**	**53.213**	ug/L	1.127	2	3	13835	0	KED
⌊	**Cd**	**114**	**52.289**	ug/L	1.215	2	6	35674	1	KED
⌈>	**In**	**115**		ug/L			437453	443145	0	Standard
⌊	**Ag**	**107**	**48.628**	ug/L	0.177	0	109	852247	1	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1157037	0	Standard
⌊	**Pb**	**208**	**54.283**	ug/L	0.939	1	605	4178201	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBK
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 10:10:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	28033	2	Standard
	Cl	**37**		ug/L			5444164	5779277	3	Standard
⌈>	**Sc**	**45**		ug/L			458454	455680	1	Standard
|	**Cr**	**52**	**-0.006**	ug/L	0.007	106	15942	15734	1	Standard
⌊	**Cr**	**53**	**0.063**	ug/L	0.013	20	279	407	6	Standard
⌈>	**Ge**	**72**		ug/L			33055	33367	3	KED
|	**Ni**	**60**	**-0.037**	ug/L	0.002	4	65	15	12	KED
|	**Ni**	**62**	**-0.026**	ug/L	0.015	55	13	8	35	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.004	277	48	43	30	KED
|	**Cu**	**65**	**-0.004**	ug/L	0.003	84	27	20	28	KED
|	**Zn**	**66**	**-0.016**	ug/L	0.013	80	33	26	23	KED
|	**Zn**	**67**	**0.023**	ug/L	0.027	118	4	6	34	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.004	291	4	4	22	KED
	Y	**89**		ug/L			263626	257297	4	Standard
	Kr	**83**		ug/L			46	47	17	Standard
⌈>	**In-1**	**115**		ug/L			7645	7939	0	KED
|	**Cd**	**111**	**0.007**	ug/L	0.002	31	3	5	10	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.006	171	6	4	95	KED
⌈>	**In**	**115**		ug/L			437453	439459	3	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.001	22	109	191	6	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1117786	3	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	3	605	348	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0151-01
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 10:14:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	76728	5	Standard
	Cl	**37**		ug/L			5444164	6337434	3	Standard
⌈>	**Sc**	**45**		ug/L			458454	506281	0	Standard
|	**Cr**	**52**	**3.066**	ug/L	0.045	1	15942	77435	1	Standard
⌊	**Cr**	**53**	**3.902**	ug/L	0.023	0	279	9273	0	Standard
⌈>	**Ge**	**72**		ug/L			33055	33725	3	KED
|	**Ni**	**60**	**2.911**	ug/L	0.124	4	65	4068	1	KED
|	**Ni**	**62**	**2.998**	ug/L	0.149	4	13	679	2	KED
|	**Cu**	**63**	**19.288**	ug/L	0.634	3	48	74666	0	KED
|	**Cu**	**65**	**19.166**	ug/L	0.547	2	27	37408	0	KED
|	**Zn**	**66**	**259.132**	ug/L	7.475	2	33	129545	0	KED
|	**Zn**	**67**	**241.515**	ug/L	4.545	1	4	20242	2	KED
⌊	**As**	**75**	**0.824**	ug/L	0.043	5	4	225	1	KED
	Y	**89**		ug/L			263626	285745	1	Standard
	Kr	**83**		ug/L			46	48	40	Standard
⌈>	**In-1**	**115**		ug/L			7645	7931	3	KED
|	**Cd**	**111**	**0.570**	ug/L	0.019	3	3	153	0	KED
⌊	**Cd**	**114**	**0.576**	ug/L	0.026	4	6	406	7	KED
⌈>	**In**	**115**		ug/L			437453	458660	1	Standard
⌊	**Ag**	**107**	**0.019**	ug/L	0.003	15	109	450	10	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1158814	0	Standard
⌊	**Pb**	**208**	**4.660**	ug/L	0.045	0	605	359789	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0211-01
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 10:19:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27642	51714	3	Standard
	Cl	37		ug/L			5444164	5609268	3	Standard
⌈>	Sc	45		ug/L			458454	481830	1	Standard
|	Cr	52	0.517	ug/L	0.042	8	15942	26346	2	Standard
⌊	Cr	53	0.738	ug/L	0.024	3	279	1907	1	Standard
⌈>	Ge	72		ug/L			33055	34473	2	KED
|	Ni	60	0.339	ug/L	0.021	6	65	545	5	KED
|	Ni	62	0.274	ug/L	0.036	13	13	76	11	KED
|	Cu	63	2.479	ug/L	0.030	1	48	9860	1	KED
|	Cu	65	2.413	ug/L	0.030	1	27	4841	1	KED
|	Zn	66	76.492	ug/L	0.843	1	33	39132	1	KED
|	Zn	67	69.613	ug/L	0.402	0	4	5968	2	KED
⌊	As	75	0.163	ug/L	0.027	16	4	49	13	KED
	Y	89		ug/L			263626	277040	3	Standard
	Kr	83		ug/L			46	40	18	Standard
⌈>	In-1	115		ug/L			7645	8045	1	KED
|	Cd	111	0.021	ug/L	0.012	58	3	8	37	KED
⌊	Cd	114	0.026	ug/L	0.017	65	6	24	46	KED
⌈>	In	115		ug/L			437453	452700	3	Standard
⌊	Ag	107	0.001	ug/L	0.001	54	109	137	9	Standard
⌈>	Tb	159		ug/L			1136980	1163850	1	Standard
⌊	Pb	208	1.065	ug/L	0.022	2	605	83086	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0211-02
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 10:23:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27642	51785	2	Standard
	Cl	37		ug/L			5444164	5649761	1	Standard
⌈>	Sc	45		ug/L			458454	483282	1	Standard
|	Cr	52	0.321	ug/L	0.017	5	15942	22777	2	Standard
⌊	Cr	53	0.370	ug/L	0.004	1	279	1105	2	Standard
⌈>	Ge	72		ug/L			33055	34449	1	KED
|	Ni	60	0.216	ug/L	0.029	13	65	372	12	KED
|	Ni	62	0.255	ug/L	0.022	8	13	72	7	KED
|	Cu	63	2.230	ug/L	0.012	0	48	8870	1	KED
|	Cu	65	2.183	ug/L	0.021	0	27	4380	0	KED
|	Zn	66	50.608	ug/L	0.308	0	33	25886	1	KED
|	Zn	67	46.208	ug/L	0.593	1	4	3960	0	KED
⌊	As	75	0.163	ug/L	0.023	14	4	49	13	KED
	Y	89		ug/L			263626	278686	2	Standard
	Kr	83		ug/L			46	53	5	Standard
⌈>	In-1	115		ug/L			7645	8072	1	KED
|	Cd	111	0.023	ug/L	0.018	77	3	9	50	KED
⌊	Cd	114	0.012	ug/L	0.006	49	6	15	29	KED
⌈>	In	115		ug/L			437453	458245	1	Standard
⌊	Ag	107	-0.001	ug/L	0.000	9	109	99	1	Standard
⌈>	Tb	159		ug/L			1136980	1182221	2	Standard
⌊	Pb	208	0.230	ug/L	0.005	2	605	18748	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0214-01
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 10:28:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27642	49665	3	Standard
	Cl	37		ug/L			5444164	5648430	4	Standard
>	Sc	45		ug/L			458454	469678	3	Standard
	Cr	52	0.591	ug/L	0.025	4	15942	27026	1	Standard
	Cr	53	0.613	ug/L	0.017	2	279	1594	5	Standard
>	Ge	72		ug/L			33055	34232	0	KED
	Ni	60	0.138	ug/L	0.018	12	65	260	9	KED
	Ni	62	0.144	ug/L	0.025	17	13	46	12	KED
	Cu	63	1.382	ug/L	0.043	3	48	5479	3	KED
	Cu	65	1.403	ug/L	0.033	2	27	2808	2	KED
	Zn	66	26.733	ug/L	0.299	1	33	13605	1	KED
	Zn	67	25.487	ug/L	0.846	3	4	2172	2	KED
	As	75	0.082	ug/L	0.002	2	4	26	2	KED
	Y	89		ug/L			263626	271430	4	Standard
	Kr	83		ug/L			46	39	28	Standard
>	In-1	115		ug/L			7645	7996	2	KED
	Cd	111	0.031	ug/L	0.018	58	3	11	44	KED
	Cd	114	0.018	ug/L	0.006	31	6	19	22	KED
>	In	115		ug/L			437453	454546	2	Standard
	Ag	107	-0.003	ug/L	0.000	6	109	64	5	Standard
>	Tb	159		ug/L			1136980	1134808	1	Standard
	Pb	208	0.198	ug/L	0.005	2	605	15529	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0214-02
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 10:32:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	49979	3	Standard
	Cl	**37**		ug/L			5444164	5617998	3	Standard
⌈>	**Sc**	**45**		ug/L			458454	487646	1	Standard
|	**Cr**	**52**	**0.454**	ug/L	0.035	7	15942	25493	3	Standard
⌊	**Cr**	**53**	**0.478**	ug/L	0.025	5	279	1355	4	Standard
⌈>	**Ge**	**72**		ug/L			33055	34488	0	KED
|	**Ni**	**60**	**0.166**	ug/L	0.012	7	65	301	5	KED
|	**Ni**	**62**	**0.185**	ug/L	0.064	34	13	56	25	KED
|	**Cu**	**63**	**1.350**	ug/L	0.027	1	48	5395	1	KED
|	**Cu**	**65**	**1.307**	ug/L	0.058	4	27	2636	3	KED
|	**Zn**	**66**	**17.184**	ug/L	0.358	2	33	8823	1	KED
|	**Zn**	**67**	**16.699**	ug/L	0.609	3	4	1436	4	KED
⌊	**As**	**75**	**0.059**	ug/L	0.006	9	4	21	7	KED
	Y	**89**		ug/L			263626	283316	0	Standard
	Kr	**83**		ug/L			46	45	11	Standard
⌈>	**In-1**	**115**		ug/L			7645	8024	3	KED
|	**Cd**	**111**	**0.013**	ug/L	0.023	170	3	6	87	KED
⌊	**Cd**	**114**	**0.009**	ug/L	0.001	9	6	12	7	KED
⌈>	**In**	**115**		ug/L			437453	472154	3	Standard
⌊	**Ag**	**107**	**-0.003**	ug/L	0.001	21	109	66	20	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1189107	1	Standard
⌊	**Pb**	**208**	**0.350**	ug/L	0.002	0	605	28314	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0216-01
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 10:37:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27642	50951	3	Standard
	Cl	37		ug/L			5444164	42464996	5	Standard
>	Sc	45		ug/L			458454	503460	3	Standard
	Cr	52	0.809	ug/L	0.042	5	15942	33188	2	Standard
	Cr	53	44.513	ug/L	0.325	0	279	101993	3	Standard
>	Ge	72		ug/L			33055	26053	11	KED
	Ni	60	1.657	ug/L	0.127	7	65	1802	4	KED
	Ni	62	1.666	ug/L	0.356	21	13	292	8	KED
	Cu	63	0.215	ug/L	0.007	3	48	680	12	KED
	Cu	65	0.210	ug/L	0.008	3	27	338	8	KED
	Zn	66	4.854	ug/L	0.551	11	33	1885	1	KED
	Zn	67	8.278	ug/L	0.875	10	4	535	3	KED
	As	75	0.144	ug/L	0.050	34	4	32	19	KED
	Y	89		ug/L			263626	236567	4	Standard
	Kr	83		ug/L			46	147	14	Standard
>	In-1	115		ug/L			7645	6604	2	KED
	Cd	111	0.102	ug/L	0.029	28	3	25	22	KED
	Cd	114	0.083	ug/L	0.019	23	6	53	20	KED
>	In	115		ug/L			437453	329745	1	Standard
	Ag	107	-0.001	ug/L	0.001	92	109	74	11	Standard
>	Tb	159		ug/L			1136980	966312	0	Standard
	Pb	208	0.042	ug/L	0.001	3	605	3243	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0216-02
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 10:44:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27642	54143	2	Standard
	Cl	37		ug/L			5444164	6827464	1	Standard
>	Sc	45		ug/L			458454	509590	1	Standard
	Cr	52	0.784	ug/L	0.034	4	15942	33112	0	Standard
	Cr	53	3.590	ug/L	0.038	1	279	8611	0	Standard
>	Ge	72		ug/L			33055	35168	1	KED
	Ni	60	0.212	ug/L	0.020	9	65	373	8	KED
	Ni	62	0.240	ug/L	0.017	7	13	70	7	KED
	Cu	63	2.598	ug/L	0.077	2	48	10539	1	KED
	Cu	65	2.548	ug/L	0.046	1	27	5215	1	KED
	Zn	66	3.129	ug/L	0.176	5	33	1666	4	KED
	Zn	67	5.923	ug/L	0.360	6	4	522	6	KED
	As	75	2.522	ug/L	0.047	1	4	710	0	KED
	Y	89		ug/L			263626	283522	1	Standard
	Kr	83		ug/L			46	52	12	Standard
>	In-1	115		ug/L			7645	7973	3	KED
	Cd	111	0.013	ug/L	0.006	44	3	6	24	KED
	Cd	114	0.006	ug/L	0.008	125	6	10	46	KED
>	In	115		ug/L			437453	462915	1	Standard
	Ag	107	-0.004	ug/L	0.000	8	109	43	15	Standard
>	Tb	159		ug/L			1136980	1193712	0	Standard
	Pb	208	0.231	ug/L	0.007	3	605	18966	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0216-03
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 10:48:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27642	51782	2	Standard
	Cl	37		ug/L			5444164	5908336	2	Standard
>	Sc	45		ug/L			458454	504093	1	Standard
	Cr	52	0.356	ug/L	0.031	8	15942	24430	1	Standard
	Cr	53	1.504	ug/L	0.065	4	279	3746	3	Standard
>	Ge	72		ug/L			33055	35048	2	KED
	Ni	60	0.451	ug/L	0.005	1	65	714	2	KED
	Ni	62	0.416	ug/L	0.124	29	13	110	23	KED
	Cu	63	3.519	ug/L	0.051	1	48	14207	0	KED
	Cu	65	3.586	ug/L	0.031	0	27	7302	2	KED
	Zn	66	51.412	ug/L	1.976	3	33	26739	1	KED
	Zn	67	53.984	ug/L	0.806	1	4	4707	2	KED
	As	75	0.410	ug/L	0.013	3	4	119	5	KED
	Y	89		ug/L			263626	290437	1	Standard
	Kr	83		ug/L			46	48	32	Standard
>	In-1	115		ug/L			7645	7961	3	KED
	Cd	111	0.043	ug/L	0.010	22	3	14	16	KED
	Cd	114	0.027	ug/L	0.027	101	6	24	72	KED
>	In	115		ug/L			437453	474699	2	Standard
	Ag	107	-0.003	ug/L	0.001	19	109	54	25	Standard
>	Tb	159		ug/L			1136980	1225867	0	Standard
	Pb	208	0.973	ug/L	0.012	1	605	79969	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0216-04
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 10:53:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27642	49633	2	Standard
	Cl	37		ug/L			5444164	5846058	2	Standard
>	Sc	45		ug/L			458454	495858	2	Standard
	Cr	52	0.285	ug/L	0.031	11	15942	22678	0	Standard
	Cr	53	0.998	ug/L	0.014	1	279	2546	1	Standard
>	Ge	72		ug/L			33055	34817	0	KED
	Ni	60	0.667	ug/L	0.064	9	65	1017	9	KED
	Ni	62	0.603	ug/L	0.041	6	13	153	5	KED
	Cu	63	0.940	ug/L	0.041	4	48	3810	4	KED
	Cu	65	0.972	ug/L	0.043	4	27	1988	4	KED
	Zn	66	30.648	ug/L	0.264	0	33	15858	0	KED
	Zn	67	41.803	ug/L	0.322	0	4	3622	0	KED
	As	75	0.088	ug/L	0.013	14	4	29	11	KED
	Y	89		ug/L			263626	285701	2	Standard
	Kr	83		ug/L			46	58	35	Standard
>	In-1	115		ug/L			7645	7876	0	KED
	Cd	111	0.073	ug/L	0.008	10	3	22	8	KED
	Cd	114	0.062	ug/L	0.004	6	6	49	4	KED
>	In	115		ug/L			437453	472393	1	Standard
	Ag	107	0.000	ug/L	0.000	374	109	120	4	Standard
>	Tb	159		ug/L			1136980	1187787	1	Standard
	Pb	208	4.029	ug/L	0.097	2	605	318885	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLL
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 10:57:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	31544	2	Standard
	Cl	**37**		ug/L			5444164	5784626	3	Standard
⌈>	**Sc**	**45**		ug/L			458454	477975	1	Standard
|	**Cr**	**52**	**-0.001**	ug/L	0.016	1561	15942	16600	1	Standard
⌊	**Cr**	**53**	**0.238**	ug/L	0.011	4	279	807	2	Standard
⌈>	**Ge**	**72**		ug/L			33055	34560	1	KED
|	**Ni**	**60**	**-0.032**	ug/L	0.006	17	65	22	36	KED
|	**Ni**	**62**	**-0.039**	ug/L	0.017	43	13	5	66	KED
|	**Cu**	**63**	**0.017**	ug/L	0.003	19	48	120	12	KED
|	**Cu**	**65**	**0.017**	ug/L	0.006	34	27	63	17	KED
|	**Zn**	**66**	**0.050**	ug/L	0.008	16	33	60	8	KED
|	**Zn**	**67**	**0.101**	ug/L	0.045	44	4	13	28	KED
⌊	**As**	**75**	**-0.009**	ug/L	0.004	49	4	2	52	KED
	Y	**89**		ug/L			263626	274297	1	Standard
	Kr	**83**		ug/L			46	39	24	Standard
⌈>	**In-1**	**115**		ug/L			7645	7846	1	KED
|	**Cd**	**111**	**0.008**	ug/L	0.006	71	3	5	26	KED
⌊	**Cd**	**114**	**-0.008**	ug/L	0.002	19	6	1	90	KED
⌈>	**In**	**115**		ug/L			437453	466007	2	Standard
⌊	**Ag**	**107**	**-0.005**	ug/L	0.000	10	109	26	36	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1163822	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.002	488	605	653	25	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVL
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 11:02:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	30712	2	Standard
	Cl	**37**		ug/L			5444164	5728917	2	Standard
⌈>	**Sc**	**45**		ug/L			458454	483340	1	Standard
|	**Cr**	**52**	**49.970**	ug/L	0.577	1	15942	947631	2	Standard
⌊	**Cr**	**53**	**49.162**	ug/L	0.195	0	279	108127	0	Standard
⌈>	**Ge**	**72**		ug/L			33055	34350	1	KED
|	**Ni**	**60**	**53.470**	ug/L	0.272	0	65	75005	0	KED
|	**Ni**	**62**	**51.200**	ug/L	0.893	1	13	11595	1	KED
|	**Cu**	**63**	**53.378**	ug/L	1.115	2	48	210482	0	KED
|	**Cu**	**65**	**54.781**	ug/L	0.508	0	27	108915	1	KED
|	**Zn**	**66**	**52.840**	ug/L	1.954	3	33	26940	2	KED
|	**Zn**	**67**	**52.845**	ug/L	0.755	1	4	4515	0	KED
⌊	**As**	**75**	**51.350**	ug/L	0.768	1	4	14041	0	KED
	Y	**89**		ug/L			263626	281016	1	Standard
	Kr	**83**		ug/L			46	48	12	Standard
⌈>	**In-1**	**115**		ug/L			7645	7854	1	KED
|	**Cd**	**111**	**52.339**	ug/L	0.875	1	3	13705	0	KED
⌊	**Cd**	**114**	**52.140**	ug/L	1.486	2	6	35824	1	KED
⌈>	**In**	**115**		ug/L			437453	461895	0	Standard
⌊	**Ag**	**107**	**47.826**	ug/L	0.662	1	109	873670	1	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1185506	2	Standard
⌊	**Pb**	**208**	**55.570**	ug/L	1.222	2	605	4381108	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBL
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 11:09:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	30136	2	Standard
	Cl	**37**		ug/L			5444164	5693760	3	Standard
⌈>	**Sc**	**45**		ug/L			458454	477568	1	Standard
|	**Cr**	**52**	**-0.014**	ug/L	0.036	262	15942	16347	3	Standard
⌊	**Cr**	**53**	**0.074**	ug/L	0.010	13	279	451	4	Standard
⌈>	**Ge**	**72**		ug/L			33055	35157	2	KED
|	**Ni**	**60**	**-0.035**	ug/L	0.001	1	65	19	5	KED
|	**Ni**	**62**	**-0.042**	ug/L	0.025	58	13	5	108	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.003	261	48	47	20	KED
|	**Cu**	**65**	**-0.005**	ug/L	0.003	70	27	20	32	KED
|	**Zn**	**66**	**0.002**	ug/L	0.027	1245	33	36	37	KED
|	**Zn**	**67**	**0.019**	ug/L	0.035	184	4	6	45	KED
⌊	**As**	**75**	**0.001**	ug/L	0.007	549	4	5	36	KED
	Y	**89**		ug/L			263626	279570	1	Standard
	Kr	**83**		ug/L			46	62	6	Standard
⌈>	**In-1**	**115**		ug/L			7645	8503	0	KED
|	**Cd**	**111**	**0.004**	ug/L	0.003	77	3	4	20	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.008	321	6	8	66	KED
⌈>	**In**	**115**		ug/L			437453	467643	1	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.001	18	109	215	7	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1167315	2	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	7	605	394	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0215-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Friday, April 28, 2023 11:16:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27642	46196	1	Standard
	Cl	37		ug/L			5444164	8284309	2	Standard
⌈>	Sc	45		ug/L			458454	505527	0	Standard
|	Cr	52	51.308	ug/L	0.740	1	15942	1017200	2	Standard
⌊	Cr	53	54.313	ug/L	0.920	1	279	124920	2	Standard
⌈>	Ge	72		ug/L			33055	34231	1	KED
|	Ni	60	2.056	ug/L	0.009	0	65	2939	1	KED
|	Ni	62	2.067	ug/L	0.103	4	13	480	6	KED
|	Cu	63	11.240	ug/L	0.213	1	48	44211	1	KED
|	Cu	65	11.273	ug/L	0.174	1	27	22354	0	KED
|	Zn	66	33.294	ug/L	0.997	2	33	16930	1	KED
|	Zn	67	30.314	ug/L	0.071	0	4	2583	1	KED
⌊	As	75	0.119	ug/L	0.006	4	4	37	3	KED
	Y	89		ug/L			263626	285225	2	Standard
	Kr	83		ug/L			46	50	36	Standard
⌈>	In-1	115		ug/L			7645	8109	1	KED
|	Cd	111	0.791	ug/L	0.046	5	3	217	5	KED
⌊	Cd	114	0.774	ug/L	0.058	7	6	555	7	KED
⌈>	In	115		ug/L			437453	461198	2	Standard
⌊	Ag	107	0.018	ug/L	0.001	8	109	446	6	Standard
⌈>	Tb	159		ug/L			1136980	1197132	0	Standard
⌊	Pb	208	0.249	ug/L	0.003	1	605	20490	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0248-01
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Friday, April 28, 2023 11:21:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	107240	8	Standard
	Cl	**37**		ug/L			5444164	10027694	6	Standard
⌈>	**Sc**	**45**		ug/L			458454	447521	4	Standard
|	**Cr**	**52**	**1.216**	ug/L	0.025	2	15942	36530	4	Standard
⌊	**Cr**	**53**	**6.095**	ug/L	0.158	2	279	12645	3	Standard
⌈>	**Ge**	**72**		ug/L			33055	24956	1	KED
|	**Ni**	**60**	**13.877**	ug/L	0.100	0	65	14180	1	KED
|	**Ni**	**62**	**13.765**	ug/L	0.271	1	13	2272	1	KED
|	**Cu**	**63**	**1.217**	ug/L	0.041	3	48	3521	2	KED
|	**Cu**	**65**	**1.258**	ug/L	0.056	4	27	1838	4	KED
|	**Zn**	**66**	**14.676**	ug/L	0.523	3	33	5455	2	KED
|	**Zn**	**67**	**16.902**	ug/L	0.853	5	4	1051	4	KED
⌊	**As**	**75**	**5056.515**	ug/L	70.621	1	4	1004202	0	KED
	Y	**89**		ug/L			263626	244825	1	Standard
	Kr	**83**		ug/L			46	130	5	Standard
⌈>	**In-1**	**115**		ug/L			7645	5770	1	KED
|	**Cd**	**111**	**0.175**	ug/L	0.063	36	3	36	34	KED
⌊	**Cd**	**114**	**0.107**	ug/L	0.024	22	6	58	21	KED
⌈>	**In**	**115**		ug/L			437453	342939	2	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.001	22	109	135	6	Standard
⌈>	**Tb**	**159**		ug/L			1136980	975969	2	Standard
⌊	**Pb**	**208**	**0.046**	ug/L	0.001	1	605	3495	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLM
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 11:25:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	31568	4	Standard
	Cl	**37**		ug/L			5444164	5881618	5	Standard
⌈>	**Sc**	**45**		ug/L			458454	470623	1	Standard
|	**Cr**	**52**	**-0.057**	ug/L	0.030	52	15942	15321	3	Standard
⌊	**Cr**	**53**	**0.185**	ug/L	0.016	8	279	680	2	Standard
⌈>	**Ge**	**72**		ug/L			33055	34607	1	KED
|	**Ni**	**60**	**-0.031**	ug/L	0.008	26	65	24	47	KED
|	**Ni**	**62**	**-0.034**	ug/L	0.005	14	13	6	15	KED
|	**Cu**	**63**	**0.020**	ug/L	0.004	22	48	130	14	KED
|	**Cu**	**65**	**0.022**	ug/L	0.003	12	27	73	6	KED
|	**Zn**	**66**	**0.060**	ug/L	0.008	13	33	66	7	KED
|	**Zn**	**67**	**0.050**	ug/L	0.052	105	4	8	49	KED
⌊	**As**	**75**	**0.228**	ug/L	0.050	22	4	67	18	KED
	Y	**89**		ug/L			263626	296872	1	Standard
	Kr	**83**		ug/L			46	41	20	Standard
⌈>	**In-1**	**115**		ug/L			7645	7356	2	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.008	859	3	2	66	KED
⌊	**Cd**	**114**	**-0.010**	ug/L	0.000	1	6	0	41	KED
⌈>	**In**	**115**		ug/L			437453	477042	1	Standard
⌊	**Ag**	**107**	**-0.005**	ug/L	0.000	8	109	33	23	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1225773	1	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	169	605	638	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0654-01 RE1
Sample Dil Factor: 10000
Comments:
Sample Date/Time: Friday, April 28, 2023 11:29:59

MB 4/27/23

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27642	38755	4	Standard
	Cl	37		ug/L			5444164	5766458	3	Standard
>	Sc	45		ug/L			458454	460830	0	Standard
	Cr	52	-0.048	ug/L	0.013	27	15942	15172	1	Standard
	Cr	53	0.089	ug/L	0.022	25	279	467	9	Standard
>	Ge	72		ug/L			33055	34765	0	KED
	Ni	60	12.127	ug/L	0.172	1	65	17270	1	KED
	Ni	62	11.887	ug/L	0.173	1	13	2736	1	KED
	Cu	63	0.010	ug/L	0.004	39	48	92	17	KED
	Cu	65	0.008	ug/L	0.004	43	27	46	15	KED
	Zn	66	73.551	ug/L	0.805	1	33	37953	1	KED
	Zn	67	67.324	ug/L	0.673	1	4	5822	1	KED
	As	75	0.011	ug/L	0.007	61	4	7	24	KED
	Y	89		ug/L			263626	289040	1	Standard
	Kr	83		ug/L			46	44	25	Standard
>	In-1	115		ug/L			7645	7504	0	KED
	Cd	111	0.009	ug/L	0.005	49	3	5	20	KED
	Cd	114	-0.002	ug/L	0.006	308	6	4	81	KED
>	In	115		ug/L			437453	470304	2	Standard
	Ag	107	-0.005	ug/L	0.000	4	109	29	16	Standard
>	Tb	159		ug/L			1136980	1197455	1	Standard
	Pb	208	0.001	ug/L	0.000	37	605	695	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0654-01
Sample Dil Factor: 100
Comments:
Sample Date/Time: Friday, April 28, 2023 11:35:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27642	96247	4	Standard
	Cl	37		ug/L			5444164	5499665	4	Standard
>	Sc	45		ug/L			458454	445938	2	Standard
	Cr	52	0.747	ug/L	0.040	5	15942	28352	4	Standard
	Cr	53	0.739	ug/L	0.027	3	279	1767	3	Standard
>	Ge	72		ug/L			33055	32582	1	KED
	Ni	60	1198.905	ug/L	24.441	2	65	1593757	1	KED
	Ni	62	1211.720	ug/L	25.753	2	13	259972	0	KED
	Cu	63	0.656	ug/L	0.036	5	48	2500	4	KED
	Cu	65	0.704	ug/L	0.020	2	27	1354	3	KED
	Zn	66	7295.255	ug/L	246.372	3	33	3523830	2	KED
	Zn	67	6460.455	ug/L	94.872	1	4	523122	0	KED
	As	75	0.019	ug/L	0.004	18	4	9	8	KED
	Y	89		ug/L			263626	280069	4	Standard
	Kr	83		ug/L			46	78	8	Standard
>	In-1	115		ug/L			7645	7374	2	KED
	Cd	111	0.029	ug/L	0.007	23	3	10	14	KED
	Cd	114	0.022	ug/L	0.008	36	6	20	24	KED
>	In	115		ug/L			437453	448096	2	Standard
	Ag	107	0.002	ug/L	0.001	33	109	144	5	Standard
>	Tb	159		ug/L			1136980	1163718	1	Standard
	Pb	208	0.265	ug/L	0.003	1	605	21162	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLN
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 11:43:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	30233	4	Standard
	Cl	**37**		ug/L			5444164	5848317	3	Standard
⌈>	**Sc**	**45**		ug/L			458454	455471	1	Standard
|	**Cr**	**52**	**-0.068**	ug/L	0.003	4	15942	14643	1	Standard
⌊	**Cr**	**53**	**-0.012**	ug/L	0.006	49	279	252	3	Standard
⌈>	**Ge**	**72**		ug/L			33055	33987	1	KED
|	**Ni**	**60**	**-0.023**	ug/L	0.007	28	65	35	26	KED
|	**Ni**	**62**	**-0.039**	ug/L	0.008	20	13	5	33	KED
|	**Cu**	**63**	**0.019**	ug/L	0.004	19	48	125	13	KED
|	**Cu**	**65**	**0.023**	ug/L	0.016	67	27	74	43	KED
|	**Zn**	**66**	**0.088**	ug/L	0.028	31	33	78	16	KED
|	**Zn**	**67**	**0.067**	ug/L	0.048	72	4	10	39	KED
⌊	**As**	**75**	**0.001**	ug/L	0.001	182	4	4	5	KED
	Y	**89**		ug/L			263626	280518	2	Standard
	Kr	**83**		ug/L			46	36	14	Standard
⌈>	**In-1**	**115**		ug/L			7645	7775	0	KED
|	**Cd**	**111**	**0.008**	ug/L	0.011	126	3	5	50	KED
⌊	**Cd**	**114**	**-0.008**	ug/L	0.002	22	6	0	143	KED
⌈>	**In**	**115**		ug/L			437453	462544	2	Standard
⌊	**Ag**	**107**	**-0.005**	ug/L	0.000	5	109	33	12	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1167530	2	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.001	313	605	640	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLO
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 11:50:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	30351	1	Standard
	Cl	**37**		ug/L			5444164	5896945	3	Standard
⌈>	**Sc**	**45**		ug/L			458454	466622	1	Standard
|	**Cr**	**52**	**-0.059**	ug/L	0.020	34	15942	15164	2	Standard
⌊	**Cr**	**53**	**-0.022**	ug/L	0.005	21	279	237	5	Standard
⌈>	**Ge**	**72**		ug/L			33055	33428	0	KED
|	**Ni**	**60**	**-0.031**	ug/L	0.006	18	65	24	32	KED
|	**Ni**	**62**	**-0.027**	ug/L	0.010	36	13	8	26	KED
|	**Cu**	**63**	**0.027**	ug/L	0.002	7	48	152	4	KED
|	**Cu**	**65**	**0.016**	ug/L	0.005	29	27	58	15	KED
|	**Zn**	**66**	**0.058**	ug/L	0.021	36	33	62	16	KED
|	**Zn**	**67**	**0.068**	ug/L	0.036	52	4	10	28	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.005	96	4	3	37	KED
	Y	**89**		ug/L			263626	290666	1	Standard
	Kr	**83**		ug/L			46	41	39	Standard
⌈>	**In-1**	**115**		ug/L			7645	7423	2	KED
|	**Cd**	**111**	**0.002**	ug/L	0.006	354	3	3	41	KED
⌊	**Cd**	**114**	**-0.007**	ug/L	0.003	42	6	1	109	KED
⌈>	**In**	**115**		ug/L			437453	469149	2	Standard
⌊	**Ag**	**107**	**-0.005**	ug/L	0.000	3	109	30	10	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1202261	0	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	48	605	602	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0394-BLK2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, April 28, 2023 11:55:14

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	41926	2	Standard
	Cl	**37**		ug/L			5444164	5910138	3	Standard
⌈>	**Sc**	**45**		ug/L			458454	476533	2	Standard
|	**Cr**	**52**	**-0.069**	ug/L	0.031	45	15942	15296	1	Standard
⌊	**Cr**	**53**	**-0.026**	ug/L	0.012	44	279	233	11	Standard
⌈>	**Ge**	**72**		ug/L			33055	34576	0	KED
|	**Ni**	**60**	**-0.038**	ug/L	0.006	14	65	14	52	KED
|	**Ni**	**62**	**-0.047**	ug/L	0.015	30	13	3	86	KED
|	**Cu**	**63**	**0.301**	ug/L	0.010	3	48	1247	2	KED
|	**Cu**	**65**	**0.300**	ug/L	0.013	4	27	629	5	KED
|	**Zn**	**66**	**0.189**	ug/L	0.024	12	33	132	10	KED
|	**Zn**	**67**	**0.168**	ug/L	0.040	23	4	19	17	KED
⌊	**As**	**75**	**0.001**	ug/L	0.006	573	4	5	30	KED
	Y	**89**		ug/L			263626	298752	1	Standard
	Kr	**83**		ug/L			46	55	24	Standard
⌈>	**In-1**	**115**		ug/L			7645	7852	1	KED
|	**Cd**	**111**	**0.005**	ug/L	0.009	202	3	4	53	KED
⌊	**Cd**	**114**	**-0.006**	ug/L	0.003	54	6	2	96	KED
⌈>	**In**	**115**		ug/L			437453	480704	0	Standard
⌊	**Ag**	**107**	**-0.005**	ug/L	0.000	6	109	29	20	Standard
⌈>	**Tb**	**159**		ug/L			1136980	1215403	0	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	12	605	480	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVM
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 11:59:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27642	29748	3	Standard
	Cl	37		ug/L			5444164	5544468	3	Standard
>	Sc	45		ug/L			458454	471963	2	Standard
	Cr	52	48.063	ug/L	0.806	1	15942	890435	1	Standard
	Cr	53	47.548	ug/L	0.700	1	279	102106	0	Standard
>	Ge	72		ug/L			33055	33617	1	KED
	Ni	60	54.520	ug/L	0.500	0	65	74845	1	KED
	Ni	62	54.253	ug/L	1.008	1	13	12026	2	KED
	Cu	63	55.226	ug/L	0.738	1	48	213143	0	KED
	Cu	65	54.698	ug/L	0.818	1	27	106420	0	KED
	Zn	66	54.177	ug/L	1.148	2	33	27039	2	KED
	Zn	67	52.963	ug/L	1.201	2	4	4429	1	KED
	As	75	51.433	ug/L	0.563	1	4	13764	1	KED
	Y	89		ug/L			263626	296548	2	Standard
	Kr	83		ug/L			46	57	26	Standard
>	In-1	115		ug/L			7645	7420	0	KED
	Cd	111	54.938	ug/L	0.395	0	3	13592	0	KED
	Cd	114	54.220	ug/L	0.808	1	6	35198	1	KED
>	In	115		ug/L			437453	480588	2	Standard
	Ag	107	46.918	ug/L	1.195	2	109	891516	1	Standard
>	Tb	159		ug/L			1136980	1207200	1	Standard
	Pb	208	59.998	ug/L	0.749	1	605	4818191	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBM
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 12:06:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27642	29535	2	Standard
	Cl	**37**		ug/L			5444164	5504155	2	Standard
⎡>	**Sc**	**45**		ug/L			458454	444874	4	Standard
⎢	**Cr**	**52**	**-0.050**	ug/L	0.058	116	15942	14585	2	Standard
⎣	**Cr**	**53**	**-0.033**	ug/L	0.014	40	279	203	11	Standard
⎡>	**Ge**	**72**		ug/L			33055	34055	0	KED
⎢	**Ni**	**60**	**-0.042**	ug/L	0.005	11	65	9	72	KED
⎢	**Ni**	**62**	**-0.050**	ug/L	0.018	35	13	3	124	KED
⎢	**Cu**	**63**	**0.003**	ug/L	0.001	46	48	60	7	KED
⎢	**Cu**	**65**	**-0.003**	ug/L	0.004	146	27	23	32	KED
⎢	**Zn**	**66**	**0.004**	ug/L	0.019	442	33	36	26	KED
⎢	**Zn**	**67**	**0.006**	ug/L	0.034	583	4	5	57	KED
⎣	**As**	**75**	**0.004**	ug/L	0.005	131	4	5	22	KED
	Y	**89**		ug/L			263626	277251	3	Standard
	Kr	**83**		ug/L			46	43	30	Standard
⎡>	**In-1**	**115**		ug/L			7645	7706	1	KED
⎢	**Cd**	**111**	**0.013**	ug/L	0.003	25	3	6	14	KED
⎣	**Cd**	**114**	**-0.000**	ug/L	0.004	2867	6	6	48	KED
⎡>	**In**	**115**		ug/L			437453	464495	6	Standard
⎣	**Ag**	**107**	**0.004**	ug/L	0.001	23	109	185	4	Standard
⎡>	**Tb**	**159**		ug/L			1136980	1150372	4	Standard
⎣	**Pb**	**208**	**-0.002**	ug/L	0.000	15	605	446	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 12:14:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				28891	1	Standard
	Cl	**37**		ug/L				6767002	0	Standard
⌈>	**Sc**	**45**		ug/L				503319	4	Standard
|	**Cr**	**52**		ug/L				16327	3	Standard
⌊	**Cr**	**53**		ug/L				222	8	Standard
	Y	**89**		ug/L				315437	1	Standard
	Kr	**83**		ug/L				57	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVN
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 12:15:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28891	29061	1	Standard
	Cl	**37**		ug/L			6767002	6954292	1	Standard
>	**Sc**	**45**		ug/L			503319	515659	2	Standard
	Cr	**52**	**48.290**	ug/L	0.697	1	16327	976167	1	Standard
	Cr	**53**	**48.169**	ug/L	0.842	1	222	112930	2	Standard
	Y	**89**		ug/L			315437	317932	0	Standard
	Kr	**83**		ug/L			57	57	19	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBN
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 12:20:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28891	29901	4	Standard
	Cl	**37**		ug/L			6767002	7132894	0	Standard
>	**Sc**	**45**		ug/L			503319	523133	1	Standard
	Cr	**52**	**0.004**	ug/L	0.026	674	16327	17045	2	Standard
	Cr	**53**	**-0.009**	ug/L	0.002	24	222	209	2	Standard
	Y	**89**		ug/L			315437	322304	1	Standard
	Kr	**83**		ug/L			57	45	35	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0774-02RE1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, April 28, 2023 12:24:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28891	43539	2	Standard
	Cl	**37**		ug/L			6767002	7170421	0	Standard
>	**Sc**	**45**		ug/L			503319	628167	0	Standard
	Cr	**52**	**5.935**	ug/L	0.044	0	16327	164052	0	Standard
	Cr	**53**	**5.961**	ug/L	0.076	1	222	17271	1	Standard
	Y	**89**		ug/L			315437	470921	3	Standard
	Kr	**83**		ug/L			57	74	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0774-03RE1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, April 28, 2023 12:25:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28891	42227	1	Standard
	Cl	**37**		ug/L			6767002	7109210	1	Standard
⌈>	**Sc**	**45**		ug/L			503319	619013	2	Standard
|	**Cr**	**52**	**6.827**	ug/L	0.237	3	16327	182857	0	Standard
⌊	**Cr**	**53**	**6.762**	ug/L	0.123	1	222	19265	1	Standard
	Y	**89**		ug/L			315437	490167	0	Standard
	Kr	**83**		ug/L			57	68	27	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0774-04RE1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, April 28, 2023 12:27:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28891	46375	2	Standard
	Cl	**37**		ug/L			6767002	7011567	1	Standard
⌈>	**Sc**	**45**		ug/L			503319	615828	0	Standard
|	**Cr**	**52**	**6.818**	ug/L	0.070	1	16327	181770	0	Standard
⌊	**Cr**	**53**	**6.788**	ug/L	0.054	0	222	19244	1	Standard
	Y	**89**		ug/L			315437	475332	1	Standard
	Kr	**83**		ug/L			57	62	17	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0774-05RE1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, April 28, 2023 12:28:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28891	44895	3	Standard
	Cl	**37**		ug/L			6767002	6972211	0	Standard
⌈>	**Sc**	**45**		ug/L			503319	620479	2	Standard
|	**Cr**	**52**	**6.039**	ug/L	0.105	1	16327	164486	1	Standard
⌊	**Cr**	**53**	**6.025**	ug/L	0.174	2	222	17235	2	Standard
	Y	**89**		ug/L			315437	474937	1	Standard
	Kr	**83**		ug/L			57	62	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0774-06RE1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, April 28, 2023 12:30:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28891	44001	2	Standard
	Cl	**37**		ug/L			6767002	6997321	0	Standard
>	**Sc**	**45**		ug/L			503319	614839	1	Standard
	Cr	**52**	**6.094**	ug/L	0.179	2	16327	164303	1	Standard
	Cr	**53**	**5.943**	ug/L	0.155	2	222	16852	1	Standard
	Y	**89**		ug/L			315437	476373	1	Standard
	Kr	**83**		ug/L			57	57	23	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0774-01RE1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, April 28, 2023 12:31:47

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28891	45080	1	Standard
	Cl	**37**		ug/L			6767002	6979431	0	Standard
>	**Sc**	**45**		ug/L			503319	630116	0	Standard
	Cr	**52**	**5.922**	ug/L	0.085	1	16327	164237	0	Standard
	Cr	**53**	**5.964**	ug/L	0.162	2	222	17332	2	Standard
	Y	**89**		ug/L			315437	471040	2	Standard
	Kr	**83**		ug/L			57	71	27	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0365-DUP2

Sample Dil Factor: 50

DEL

Comments:

Sample Date/Time: Friday, April 28, 2023 12:33:14

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28891	45462	2	Standard
	Cl	**37**		ug/L			6767002	7006980	1	Standard
⌈>	**Sc**	**45**		ug/L			503319	619361	1	Standard
|	**Cr**	**52**	**6.642**	ug/L	0.139	2	16327	178590	1	Standard
⌊	**Cr**	**53**	**6.508**	ug/L	0.098	1	222	18566	2	Standard
	Y	**89**		ug/L			315437	474550	2	Standard
	Kr	**83**		ug/L			57	76	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0365-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, April 28, 2023 12:34:41

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28891	43126	1	Standard
	Cl	**37**		ug/L			6767002	6951285	0	Standard
>	**Sc**	**45**		ug/L			503319	624699	0	Standard
	Cr	**52**	**15.065**	ug/L	0.139	0	16327	382948	1	Standard
	Cr	**53**	**14.732**	ug/L	0.313	2	222	42036	1	Standard
	Y	**89**		ug/L			315437	466197	1	Standard
	Kr	**83**		ug/L			57	76	29	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0365-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, April 28, 2023 12:36:08

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28891	41008	2	Standard
	Cl	**37**		ug/L			6767002	7068704	0	Standard
>	**Sc**	**45**		ug/L			503319	635016	1	Standard
	Cr	**52**	**15.022**	ug/L	0.330	2	16327	388176	1	Standard
	Cr	**53**	**14.600**	ug/L	0.178	1	222	42349	0	Standard
	Y	**89**		ug/L			315437	469575	0	Standard
	Kr	**83**		ug/L			57	71	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0365-PS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, April 28, 2023 12:37:36

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28891	47443	3	Standard
	Cl	**37**		ug/L			6767002	7115779	1	Standard
>	**Sc**	**45**		ug/L			503319	629591	1	Standard
	Cr	**52**	**28.157**	ug/L	1.095	3	16327	703374	2	Standard
	Cr	**53**	**27.778**	ug/L	0.450	1	222	79649	2	Standard
	Y	**89**		ug/L			315437	480416	3	Standard
	Kr	**83**		ug/L			57	74	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVO
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 12:40:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28891	30642	1	Standard
	Cl	**37**		ug/L			6767002	7284902	1	Standard
⌈>	**Sc**	**45**		ug/L			503319	561347	1	Standard
|	**Cr**	**52**	**48.695**	ug/L	1.253	2	16327	1071391	1	Standard
⌊	**Cr**	**53**	**47.717**	ug/L	1.683	3	222	121768	2	Standard
	Y	**89**		ug/L			315437	338544	2	Standard
	Kr	**83**		ug/L			57	60	22	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBO
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 12:44:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28891	30901	1	Standard
	Cl	**37**		ug/L			6767002	7220129	0	Standard
>	**Sc**	**45**		ug/L			503319	552789	1	Standard
	Cr	**52**	**0.017**	ug/L	0.041	241	16327	18287	3	Standard
	Cr	**53**	**0.013**	ug/L	0.017	134	222	277	16	Standard
	Y	**89**		ug/L			315437	325757	2	Standard
	Kr	**83**		ug/L			57	53	34	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVP
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Friday, April 28, 2023 12:45:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28891	30531	2	Standard
	Cl	**37**		ug/L			6767002	7420876	0	Standard
>	**Sc**	**45**		ug/L			503319	568935	2	Standard
	Cr	**52**	**48.327**	ug/L	0.910	1	16327	1077742	2	Standard
	Cr	**53**	**47.973**	ug/L	1.076	2	222	124076	2	Standard
	Y	**89**		ug/L			315437	337514	1	Standard
	Kr	**83**		ug/L			57	60	30	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 12:50:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				30904	2	Standard
	Cl	**37**		ug/L				7372498	0	Standard
⎡>	**Sc**	**45**		ug/L				563792	1	Standard
⎢	**Cr**	**52**		ug/L				18264	1	Standard
⎣	**Cr**	**53**		ug/L				231	3	Standard
	Y	**89**		ug/L				328331	0	Standard
	Kr	**83**		ug/L				58	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVP
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 12:51:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	30866	1	Standard
	Cl	**37**		ug/L			7372498	7516620	0	Standard
>	**Sc**	**45**		ug/L			563792	571030	3	Standard
	Cr	**52**	**48.459**	ug/L	0.564	1	18264	1084557	2	Standard
	Cr	**53**	**47.731**	ug/L	1.002	2	231	123865	2	Standard
	Y	**89**		ug/L			328331	345136	4	Standard
	Kr	**83**		ug/L			58	69	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBP
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 12:55:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	32058	1	Standard
	Cl	**37**		ug/L			7372498	7488004	0	Standard
⌈>	**Sc**	**45**		ug/L			563792	571446	0	Standard
|	**Cr**	**52**	**0.007**	ug/L	0.009	118	18264	18672	0	Standard
⌊	**Cr**	**53**	**-0.017**	ug/L	0.004	22	231	189	5	Standard
	Y	**89**		ug/L			328331	341473	1	Standard
	Kr	**83**		ug/L			58	57	15	Standard

23A0326

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~23C0326~~-02RE1

Sample Dil Factor: 50

Comments:

Sample Date/Time: Friday, April 28, 2023 12:57:59

MB 4/27/23

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	48189	2	Standard
	Cl	**37**		ug/L			7372498	7391414	1	Standard
>	**Sc**	**45**		ug/L			563792	649129	0	Standard
	Cr	**52**	**7.097**	ug/L	0.092	1	18264	198550	0	Standard
	Cr	**53**	**7.134**	ug/L	0.031	0	231	21282	0	Standard
	Y	**89**		ug/L			328331	476111	1	Standard
	Kr	**83**		ug/L			58	82	13	Standard

23A0326

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~23C0326~~-04RE1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, April 28, 2023 12:59:26

MB 4/27/23

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	46746	2	Standard
	Cl	**37**		ug/L			7372498	7400893	0	Standard
>	**Sc**	**45**		ug/L			563792	660190	0	Standard
	Cr	**52**	**6.173**	ug/L	0.159	2	18264	178406	1	Standard
	Cr	**53**	**6.053**	ug/L	0.137	2	231	18404	1	Standard
	Y	**89**		ug/L			328331	478356	0	Standard
	Kr	**83**		ug/L			58	70	9	Standard

23A0326

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~23C0326~~-05RE1

Sample Dil Factor: 50

Comments:

Sample Date/Time: Friday, April 28, 2023 13:00:53

MB 4/27/23

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	42154	3	Standard
	Cl	**37**		ug/L			7372498	7296514	1	Standard
>	**Sc**	**45**		ug/L			563792	657273	0	Standard
	Cr	**52**	**6.295**	ug/L	0.048	0	18264	180755	1	Standard
	Cr	**53**	**6.208**	ug/L	0.091	1	231	18784	0	Standard
	Y	**89**		ug/L			328331	493519	2	Standard
	Kr	**83**		ug/L			58	88	8	Standard

23A0326

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~23C0326~~-11RE1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, April 28, 2023 13:02:20

MB 4/27/23

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	44109	1	Standard
	Cl	**37**		ug/L			7372498	7251435	1	Standard
⌈>	**Sc**	**45**		ug/L			563792	645289	2	Standard
|	**Cr**	**52**	**6.119**	ug/L	0.096	1	18264	173032	1	Standard
⌊	**Cr**	**53**	**6.066**	ug/L	0.111	1	231	18023	1	Standard
	Y	**89**		ug/L			328331	468437	2	Standard
	Kr	**83**		ug/L			58	53	16	Standard

23A0326

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~23C0326~~-12RE1

Sample Dil Factor: 50

Comments:

Sample Date/Time: Friday, April 28, 2023 13:03:47

MB 4/27/23

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	44137	1	Standard
	Cl	**37**		ug/L			7372498	7168495	0	Standard
>	**Sc**	**45**		ug/L			563792	653272	2	Standard
	Cr	**52**	**6.729**	ug/L	0.162	2	18264	190512	0	Standard
	Cr	**53**	**6.677**	ug/L	0.061	0	231	20061	1	Standard
	Y	**89**		ug/L			328331	488584	1	Standard
	Kr	**83**		ug/L			58	71	5	Standard

23A0326

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~23C0326~~-01RE1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, April 28, 2023 13:05:14

MB 4/27/23

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	47332	0	Standard
	Cl	**37**		ug/L			7372498	7228541	1	Standard
⌈>	**Sc**	**45**		ug/L			563792	640968	0	Standard
|	**Cr**	**52**	**5.951**	ug/L	0.103	1	18264	167758	2	Standard
⌊	**Cr**	**53**	**6.009**	ug/L	0.099	1	231	17742	0	Standard
	Y	**89**		ug/L			328331	461971	1	Standard
	Kr	**83**		ug/L			58	66	27	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0394-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, April 28, 2023 13:06:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	47155	0	Standard
	Cl	**37**		ug/L			7372498	7207408	0	Standard
⌈>	**Sc**	**45**		ug/L			563792	651649	3	Standard
|	**Cr**	**52**	**6.522**	ug/L	0.038	0	18264	184861	3	Standard
⌊	**Cr**	**53**	**6.502**	ug/L	0.137	2	231	19484	1	Standard
	Y	**89**		ug/L			328331	477008	1	Standard
	Kr	**83**		ug/L			58	68	20	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0394-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, April 28, 2023 13:08:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	44067	0	Standard
	Cl	**37**		ug/L			7372498	7289752	0	Standard
⌈>	**Sc**	**45**		ug/L			563792	636339	0	Standard
|	**Cr**	**52**	**15.444**	ug/L	0.405	2	18264	399312	1	Standard
⌊	**Cr**	**53**	**15.545**	ug/L	0.337	2	231	45147	1	Standard
	Y	**89**		ug/L			328331	474933	0	Standard
	Kr	**83**		ug/L			58	73	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0394-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, April 28, 2023 13:09:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	42593	1	Standard
	Cl	**37**		ug/L			7372498	7199938	0	Standard
⌈>	**Sc**	**45**		ug/L			563792	657057	2	Standard
|	**Cr**	**52**	**15.853**	ug/L	0.392	2	18264	422574	0	Standard
⌊	**Cr**	**53**	**15.519**	ug/L	0.513	3	231	46523	1	Standard
	Y	**89**		ug/L			328331	478053	2	Standard
	Kr	**83**		ug/L			58	74	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0394-PS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, April 28, 2023 13:11:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	50508	1	Standard
	Cl	**37**		ug/L			7372498	7163838	0	Standard
⌈>	**Sc**	**45**		ug/L			563792	636970	1	Standard
|	**Cr**	**52**	**28.960**	ug/L	0.439	1	18264	731507	1	Standard
⌊	**Cr**	**53**	**27.946**	ug/L	0.323	1	231	81037	0	Standard
	Y	**89**		ug/L			328331	470740	0	Standard
	Kr	**83**		ug/L			58	78	22	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVQ
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 13:13:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	31523	0	Standard
	Cl	**37**		ug/L			7372498	7383903	1	Standard
⌈>	**Sc**	**45**		ug/L			563792	591400	2	Standard
|	**Cr**	**52**	**47.206**	ug/L	0.632	1	18264	1094945	2	Standard
⌊	**Cr**	**53**	**47.217**	ug/L	0.051	0	231	126968	2	Standard
	Y	**89**		ug/L			328331	345527	2	Standard
	Kr	**83**		ug/L			58	64	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBQ
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 13:19:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	31674	1	Standard
	Cl	**37**		ug/L			7372498	7339488	1	Standard
⌈>	**Sc**	**45**		ug/L			563792	563527	0	Standard
|	**Cr**	**52**	**0.019**	ug/L	0.010	54	18264	18672	1	Standard
⌊	**Cr**	**53**	**-0.010**	ug/L	0.006	64	231	206	7	Standard
	Y	**89**		ug/L			328331	325589	0	Standard
	Kr	**83**		ug/L			58	49	19	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0774-07RE1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, April 28, 2023 13:23:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	45687	0	Standard
	Cl	**37**		ug/L			7372498	7421887	0	Standard
⌈>	**Sc**	**45**		ug/L			563792	679172	1	Standard
|	**Cr**	**52**	**6.159**	ug/L	0.080	1	18264	183185	0	Standard
⌊	**Cr**	**53**	**6.296**	ug/L	0.078	1	231	19681	0	Standard
	Y	**89**		ug/L			328331	512362	1	Standard
	Kr	**83**		ug/L			58	67	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0774-08RE1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, April 28, 2023 13:25:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	48275	4	Standard
	Cl	**37**		ug/L			7372498	7386328	1	Standard
⌈>	**Sc**	**45**		ug/L			563792	663423	2	Standard
|	**Cr**	**52**	**6.076**	ug/L	0.061	1	18264	176857	3	Standard
⌊	**Cr**	**53**	**6.104**	ug/L	0.136	2	231	18643	1	Standard
	Y	**89**		ug/L			328331	472749	2	Standard
	Kr	**83**		ug/L			58	66	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0774-09RE1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, April 28, 2023 13:26:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	47604	2	Standard
	Cl	**37**		ug/L			7372498	7317135	1	Standard
⌈>	**Sc**	**45**		ug/L			563792	687012	0	Standard
|	**Cr**	**52**	**7.067**	ug/L	0.060	0	18264	209351	0	Standard
⌊	**Cr**	**53**	**7.004**	ug/L	0.079	1	231	22117	1	Standard
	Y	**89**		ug/L			328331	515249	2	Standard
	Kr	**83**		ug/L			58	91	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0774-11RE1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, April 28, 2023 13:28:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	46884	2	Standard
	Cl	**37**		ug/L			7372498	7272790	0	Standard
>	**Sc**	**45**		ug/L			563792	665206	1	Standard
	Cr	**52**	**6.245**	ug/L	0.005	0	18264	181643	1	Standard
	Cr	**53**	**6.175**	ug/L	0.098	1	231	18911	0	Standard
	Y	**89**		ug/L			328331	485504	2	Standard
	Kr	**83**		ug/L			58	61	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0774-12RE1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, April 28, 2023 13:29:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	47155	0	Standard
	Cl	**37**		ug/L			7372498	7280398	0	Standard
⌈>	**Sc**	**45**		ug/L			563792	658214	2	Standard
|	**Cr**	**52**	**6.242**	ug/L	0.152	2	18264	179609	1	Standard
⌊	**Cr**	**53**	**6.200**	ug/L	0.133	2	231	18784	0	Standard
	Y	**89**		ug/L			328331	480773	0	Standard
	Kr	**83**		ug/L			58	67	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0774-13RE1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, April 28, 2023 13:30:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	45155	1	Standard
	Cl	**37**		ug/L			7372498	7262895	1	Standard
⌈>	**Sc**	**45**		ug/L			563792	665430	1	Standard
|	**Cr**	**52**	**6.674**	ug/L	0.037	0	18264	192702	2	Standard
⌊	**Cr**	**53**	**6.614**	ug/L	0.175	2	231	20244	2	Standard
	Y	**89**		ug/L			328331	494194	0	Standard
	Kr	**83**		ug/L			58	71	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0774-01RE1
Sample Dil Factor: 100
Comments:
Sample Date/Time: Friday, April 28, 2023 13:34:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	40783	1	Standard
	Cl	**37**		ug/L			7372498	7273053	0	Standard
⌈>	**Sc**	**45**		ug/L			563792	637301	0	Standard
|	**Cr**	**52**	**3.057**	ug/L	0.082	2	18264	95719	1	Standard
⌊	**Cr**	**53**	**3.108**	ug/L	0.013	0	231	9249	1	Standard
	Y	**89**		ug/L			328331	408333	0	Standard
	Kr	**83**		ug/L			58	73	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0365-DUP2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Friday, April 28, 2023 13:35:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	41383	3	Standard
	Cl	**37**		ug/L			7372498	7314571	0	Standard
⌈>	**Sc**	**45**		ug/L			563792	649469	0	Standard
|	**Cr**	**52**	**3.459**	ug/L	0.082	2	18264	107617	1	Standard
⌊	**Cr**	**53**	**3.424**	ug/L	0.020	0	231	10359	0	Standard
	Y	**89**		ug/L			328331	420128	1	Standard
	Kr	**83**		ug/L			58	75	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0365-MS2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Friday, April 28, 2023 13:36:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	39720	2	Standard
	Cl	**37**		ug/L			7372498	7243009	0	Standard
⌈>	**Sc**	**45**		ug/L			563792	623609	4	Standard
|	**Cr**	**52**	**7.959**	ug/L	0.175	2	18264	211447	4	Standard
⌊	**Cr**	**53**	**7.811**	ug/L	0.139	1	231	22351	3	Standard
	Y	**89**		ug/L			328331	400584	2	Standard
	Kr	**83**		ug/L			58	70	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0365-MSD2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Friday, April 28, 2023 13:38:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	38290	2	Standard
	Cl	**37**		ug/L			7372498	7235013	0	Standard
>	**Sc**	**45**		ug/L			563792	620143	1	Standard
	Cr	**52**	**8.157**	ug/L	0.070	0	18264	215014	0	Standard
	Cr	**53**	**8.187**	ug/L	0.112	1	231	23293	1	Standard
	Y	**89**		ug/L			328331	414819	0	Standard
	Kr	**83**		ug/L			58	56	23	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVR
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 13:40:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	32070	1	Standard
	Cl	**37**		ug/L			7372498	7536936	0	Standard
>	**Sc**	**45**		ug/L			563792	588958	1	Standard
	Cr	**52**	**49.621**	ug/L	0.733	1	18264	1145093	0	Standard
	Cr	**53**	**49.145**	ug/L	0.909	1	231	131563	0	Standard
	Y	**89**		ug/L			328331	343419	2	Standard
	Kr	**83**		ug/L			58	62	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBR
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 13:45:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	31474	3	Standard
	Cl	**37**		ug/L			7372498	7403997	1	Standard
>	**Sc**	**45**		ug/L			563792	586878	2	Standard
	Cr	**52**	**0.019**	ug/L	0.017	86	18264	19447	1	Standard
	Cr	**53**	**-0.016**	ug/L	0.004	25	231	197	3	Standard
	Y	**89**		ug/L			328331	329282	2	Standard
	Kr	**83**		ug/L			58	50	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 13:47:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	37745	1	Standard
	Cl	**37**		ug/L			7372498	7615414	0	Standard
>	**Sc**	**45**		ug/L			563792	656201	1	Standard
	Cr	**52**	**0.076**	ug/L	0.012	16	18264	23175	1	Standard
	Cr	**53**	**-0.009**	ug/L	0.003	34	231	241	3	Standard
	Y	**89**		ug/L			328331	390404	3	Standard
	Kr	**83**		ug/L			58	54	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 13:48:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	38687	2	Standard
	Cl	**37**		ug/L			7372498	7860200	0	Standard
>	**Sc**	**45**		ug/L			563792	701238	2	Standard
	Cr	**52**	**0.052**	ug/L	0.029	55	18264	24109	1	Standard
	Cr	**53**	**-0.013**	ug/L	0.001	9	231	246	3	Standard
	Y	**89**		ug/L			328331	419056	3	Standard
	Kr	**83**		ug/L			58	65	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 13:50:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	36093	2	Standard
	Cl	**37**		ug/L			7372498	7939870	0	Standard
>	**Sc**	**45**		ug/L			563792	2492	15	Standard
	Cr	**52**	**218.908**	ug/L	34.416	15	18264	20760	1	Standard
	Cr	**53**	**19.116**	ug/L	1.730	9	231	215	7	Standard
	Y	**89**		ug/L			328331	405	30	Standard
	Kr	**83**		ug/L			58	58	30	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, April 28, 2023 13:51:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\042723C.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30904	35778	0	Standard
	Cl	**37**		ug/L			7372498	8188939	0	Standard
>	**Sc**	**45**		ug/L			563792	1354	34	Standard
	Cr	**52**	**437.820**	ug/L	123.598	28	18264	21427	0	Standard
	Cr	**53**	**37.425**	ug/L	13.029	34	231	212	8	Standard
	Y	**89**		ug/L			328331	333	83	Standard
	Kr	**83**		ug/L			58	61	18	Standard

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00013	Instrument:	ICPMS1
Calibration Date:	05/02/2023 13:47		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Silver-107	0	0	0.2	19455	10	19540.1	20	19118.6	50	17879.82	100	17551.85
Chromium-52	0	0	0.5	61716	10	28950.8	20	26638.15	50	25172.96	100	25541.16
Chromium-53	0	0	0.5	3378	10	3078.8	20	3013.7	50	2877.66	100	2858.88
Lead-208	0	0	0.1	101420	10	98241.6	20	96060.95	50	92245.5	100	91035.03

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory: Analytical Resources, LLC
Instrument: ICPMS1
Calibration: GE00013
Calibration Date: 5/2/2023

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Silver-107	15590.9	49.3	0.9996		0.998	
Chromium-52	28003.18	70.3	0.9998		0.998	
Chromium-53	2534.507	49.5	0.9999		0.998	
Lead-208	79833.85	49.2	0.9998		0.998	

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00013
Instrument: ICPMS1
Calibration Date: 05/02/2023 13:47

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Arsenic-75a	0	0	0.2	380	10	394.2	20	383.3	50	369.32	100	371.34
Cadmium-111	0	0	0.1	390	10	383.8	20	373.2	50	357.5	100	352.24
Cadmium-114	0	0	0.1	1090	10	975.7	20	937.95	50	897.84	100	895.02
Copper-63	0	0	0.5	6052	10	5565.6	20	5405.75	50	5108.7	100	5028.46
Copper-65	0	0	0.5	3040	10	2847.7	20	2758.8	50	2613.5	100	2576.83
Zinc-66	0	0	6	793.6667	10	795.8	20	784.6	50	734.36	100	725.14
Zinc-67	0	0	6	122	10	130.1	20	129.5	50	120.28	100	117.57

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Instrument: ICPMS1
Calibration: GE00013
Calibration Date: 5/2/2023

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Arsenic-75a	316.36	49.1	0.9999		0.998	
Cadmium-111	309.4567	49.2	0.9998		0.998	
Cadmium-114	799.4183	49.8	0.9999		0.998	
Copper-63	4526.752	49.7	0.9997		0.998	
Copper-65	2306.138	49.5	0.9998		0.998	
Zinc-66	638.9278	49.2	0.9998		0.998	
Zinc-67	103.2417	49.2	0.9996		0.998	

Analytical Resources, Incorporated
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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/2/23 **Analyst:** MB **Sequence:** SLEØØ43 **Cal:** GEØØØ13

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
	✓	SEQ-CAL1	—		
		-CAL2			
		-CAL3			
		-CAL4			
		-CAL5			
		-CAL6			Std Mode noisy
		-IBL1	—		
		SEQ-CAL1	L484Ø		
		-CAL2	L4627		
		-CAL3	L4628		
		-CAL4	L4629		
		-CAL5	L4889		
		-CAL6	L463Ø		
		-IBL1	—		
		-ICV1	L3575		
		-ICB1	L484Ø		
		-CCV1	L4889		
		-CCB1	L484Ø		
	✓	-CRL1	—		C↑
		-CRL1	L4627		
		-IFA1	L4688		C↑
		-IFB1	L4689		
		-ICV1	L478Ø		
		-ICV2	L4781		P6↑ - P6<200

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/2/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-IBL2			(P6↑ +noisy / Std mode sl. noisy)
		-IBL3			
	✓	-CCV2			Std Mode noisy
		-CCV2			
		-CCB2			
		BLD0517-BLK1	REN		
		-BS1			
		BLE0054-BLK1			
	✓	-BS1			Std Mode noisy
		-BS1			
		23E0005-01		5	
		23D0631-01		2	
		23D0102-01		↓	
		SEQ-IBL4			
		-CCV3			
		-CCB3			
	✓	-CAL1			Mn Removed
		-CCV4			
		-CCB4			
		23A0417-02	SWN	20	
		-03			Sc↑ No Co
		-04			
		-05			
		-06			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/2/23 **Analyst:** MS **Sequence:** ~~~~ **Cal:** ~~~~

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23AΦ417-Φ7	SWN	20	
		-Φ8	↓	↓	Sc↑/Zn↑ No Cr, Zn
		-Φ9			
		-1Φ			
		-11			
		SEQ-CCV5			
		↓ -CCB5			
		23AΦ417-12	SWN	20	
		-13	↓	↓	
		-14			Sc↑ No Cr
		-15			
		23AΦ42Φ-Φ1			Sc↑ No Cr
		-Φ7			↓ ↓
		-Φ8			
		-Φ9			Sc↑ No Cr
		23AΦ419-Φ2			↓ ↕
		↓ -Φ3	↓	↓	Std Mode noisy No Ag, Cr, Pb
		SEQ-CCV6			
		↓ -CCB6			
		23AΦ419-Φ1	SWN	100	Zn only
		BLDΦ452-DUP2	↓	↓	↓
		-MS2			
		-MSD2			Zn %R↑
	✓	-PS2	↓	↓	No spike ↓

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/2/23 **Analyst:** MB **Sequence:** ~~~~ **Cal:** ~~~~

All corrections made by analyst unless otherwise noted. MB 5/2/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23AΦ420-Φ4	SWN	20	As only
		23AΦ419-Φ4	↓	↓	
		-Φ5			
		-Φ6			
		-Φ7			In-1 noisy -%R Φ Analytes OK
		SEQ-CCV7			
		↓ -CCB7			
		23AΦ419-Φ8	SWN	20	Sc, In, Tb noisy No Ag, Cr, Pb
		-Φ9	↓	↓	
		-10			
		-11			
		-12			
		23CΦ752-Φ1			
		-Φ2			
		-Φ3			
		-Φ4			
Φ5→Φ6		~~Φ5~~ Φ6			
		SEQ-CCV8			
		↓ -CCB8			
		23AΦ455-Φ2	SWN	20	No As, Cu, Zn
		-Φ3	↓	↓	↓
		-Φ4			
		-Φ5			
		-Φ6			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/2/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted. MB 5/2/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23AΦ455-Φ7	SWN	20	No Ag, Cu, Zn
		-Φ8	↓	↓	↓
	✓	-Φ9			Sc, Rh, Tb noisy
		-10			No Ag, Cu, Zn
		-11			↓
		SEQ-CCV9			Ge noisy
		-CCB9			
	✓	-CAL1			
		-CCVA			
		-CCBA			
		23AΦ455-12	SWN	20	Se↑ No Cr, Pb
		-13	↓	↓	↓ ↓
		-14			↓ ↓
		-15			Ge noisy No Ag, Cu, Zn, Pb
		-16			No Pb
		-17			↓
		-18	↓	↓	Sc, Rh, Tb noisy No Ag, Cu, Pb
		230ΦΦ99-Φ1	REN	5	No Pb
		230ΦΦ72-Φ1	↓	100	↓
		SEQ-IBL5			
		-CCVB			Pb↑
		-CCBB			
		230Φ593-Φ1	REN	$\frac{1}{2}$	No Pb
		↓ -Φ2	↓	↓	↓

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/2/23 **Analyst:** MB **Sequence:** —— **Cal:** ——

All corrections made by analyst unless otherwise noted. MB 5/2/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		230ϕ593-ϕ3	REN	ϕ2	No Pb
		↓ -ϕ4	↓	↓	↓
		SEQ-IBL6			
		230ϕϕ64-ϕ3	REN		
		↓ -ϕ1			Sc, In, Tb/Cd noisy / noisy No Cd, Cr, Pb
		BLDϕ517-DUP1			↓
		↓ -MS1			
		SEQ-IBL7			
		-CCVC			
		↓ -CCBC			
		230ϕ1ϕ1-ϕ1	REN	2	No Pb
		230ϕ111-ϕ2			↓
		230ϕ113-ϕ1		20	
		230ϕ114-ϕ1			
		230ϕ115-ϕ1			
		230ϕ442-ϕ2			Sc↑ No Cr, Pb
		BLEϕϕ54-DUP1			↓ ↓
		↓ -MS1			
		↓ -MSD1	↓		↓ ↓
		SEQ-IBL8			
		-CCVD			Pb↑
		↓ -CCBD			
		BLDϕ643-BCK1	REN		No Pb
		↓ -BS1	↓		

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/2/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		230ϕϕ73-ϕ1	REN		No Pb
		230ϕϕ75-ϕ1	↓		
		-ϕ2			
	✓	-ϕ3			Gel↓
		-ϕ4			
		-ϕ5			
		230ϕ197-ϕ1	↓		
		SEQ-IBL9			
		-CCVE			Pb↑
		-CCBE			
	✓	-CAL1			
		-CCVF			Pb↑
		-CCBF			
		230ϕ147-ϕ1	REN		Sc↑/Sc,Th,Tb noisy No Pb
		-ϕ3	↓		
		230ϕ152-ϕ1			
		230ϕ155-ϕ1			
		230ϕ156-ϕ1			
		230ϕ162-ϕ3			
		-ϕ1		2	
		-ϕ5		↓	
		230ϕ168-ϕ1	↓		
		SEQ-IBLA			
		-CCVG			Pb↑

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/2/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted. MB 5/2/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCBG			
		230Φ177-Φ1	REN		No Pb
		↓ -Φ3	↓		↓
		↓ -Φ5	↓		Ge sl. noisy No Cu, Pb, Zn
		↓ -Φ7	↓		No Pb
		230Φ178-Φ1	↓		
		230Φ179-Φ1	↓		
		↓ -Φ2	↓		
		230Φ201-Φ1	↓		No Pb
		↓ -Φ2	↓		↓
		SEQ-IBLB			
		↓ -CCVH			Pb? / Sc, In, Tb sl. noisy - ISR & Analytes OK
		↓ -CCBH			
		230Φ203-Φ1	REN		
		↓ -Φ4	↓		
		230Φ218-Φ1	↓		
		230Φ220-Φ1	↓		
		230Φ221-Φ1	↓		
		230Φ225-Φ1	↓	MB 5/2/23	
		230Φ245-Φ1	↓		
		↓ -Φ2	↓		
		230Φ251-Φ1	↓		
		SEQ-IBLC			
		↓ -CCVH			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/2/23 **Analyst:** MS **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MS 5/2/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
—		SEQ-CCBH		MS 5/2/23	
		230Φ203-Φ1	REN		
		↓ -Φ4			
		230Φ218-Φ1			No Pb
		230Φ220-Φ1			
		230Φ221-Φ1			No Pb
		230Φ225-Φ1			Sc↑ - Not Needed
		230Φ245-Φ1			Cu↑ No Cu
		↓ -Φ2			
		230Φ251-Φ1			
		SEQ-IBLC			
		↓ -CCVI			Pb↑
		↓ -CCBI			
		230Φ253-Φ1	REN		
		230Φ254-Φ1			No Pb
		230Φ264-Φ1			
	✓	230Φ266-Φ1			Cu, Zn↑
		230Φ278-Φ1			No Pb
		230Φ301-Φ1			
		↓ -Φ2			
		230Φ368-Φ1			
		↓ -Φ2			
		SEQ-IBLD			
		↓ -CCVS			Pb↑

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/2/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCBJ			
		BLΦ561-BLK1	REN		Cu↑ (0.570/0.560) - Samples ×10x
		↓ -BS1	↓		
		230Φ298-Φ1			
	✓	230Φ2Φ5-Φ2			Ge noisy / Cu ×10x BLK cont.
		↓ -Φ4			↓
		↓ -Φ6			
		230Φ2Φ6-Φ2			
		↓ -Φ4			
		↓ -Φ6	↓		
		SEQ-IBLE			
		↓ -CCVK			Pb↑
		↓ -CCBK			Sc, In noisy - ~/R + Analytes OK
		Rinse/DI			
			MB 5/2/23		

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Tuesday, May 02, 2023 12:21:47
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.095
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	10126.8	10126.788	123.067	1.2	Standard
	In	114.9	97144.5	-529708.759	1736.228	0.3	Standard
	U	238.1	110073.9	110073.909	1558.589	1.4	Standard
⌈	CeO	155.9	3834.4	0.029	0.000	1.6	Standard
| >	Ce	139.9	133460.6	133460.555	1996.858	1.5	Standard
⌊	Ce++	70.0	1802.0	0.014	0.000	3.2	Standard
	Bkgd	220.0	2.1	2.100	1.234	58.8	Standard

Current Conditions File Data

Current Value	Description
0.92	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1000.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.92	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Tuesday, May 02, 2023 12:31:49
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.102
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	9961.7	9961.740	175.425	1.8	Standard
	In	114.9	88987.2	88987.184	905.258	1.0	Standard
	U	238.1	105364.0	105363.978	2055.927	2.0	Standard
⌈	CeO	155.9	2970.1	0.024	0.000	1.8	Standard
| >	Ce	139.9	123241.3	123241.263	824.730	0.7	Standard
⌊	Ce++	70.0	1481.3	0.012	0.001	5.5	Standard
	Bkgd	220.0	1.2	1.167	0.354	30.3	Standard

Current Conditions File Data

Current Value	Description
0.91	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1000.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.91	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 5/2/2023 12:21:46 PM
End Time: 5/2/2023 12:33:53 PM

STD Performance Check - [Failed]
Obtained Intensity (Be 9): 10126.79
Obtained Intensity (In 115): 97144.53
Obtained Intensity (U 238): 110073.91
Obtained Intensity (Bkgd 220): 2.10
Obtained Formula (Ce++ 70 / Ce 140): 0.014 (=1802.05 / 133460.56)
Obtained Formula (CeO 156 / Ce 140): 0.029 (=3834.38 / 133460.56) - <Target not achieved>
Obtained RSD (Be 9): 0.0122
Obtained RSD (In 115): 0.0033
Obtained RSD (U 238): 0.0142

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
0.85 mm	0.80 mm	104569.32

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 0.91
Obtained Intensity (In 115): 93685.19
Obtained Formula (CeO 156 / Ce 140): 0.0239 (=3079.33 / 128703.16)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.690)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.699)
Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.703)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.694)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.998; Intercept = -13.63

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.991; Intercept = -14.90

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 9961.74
Obtained Intensity (In 115): 88987.18
Obtained Intensity (U 238): 105363.98
Obtained Intensity (Bkgd 220): 1.17
Obtained Formula (Ce++ 70 / Ce 140): 0.012 (=1481.28 / 123241.26)
Obtained Formula (CeO 156 / Ce 140): 0.024 (=2970.11 / 123241.26)
Obtained RSD (Be 9): 0.0176
Obtained RSD (In 115): 0.0102
Obtained RSD (U 238): 0.0195

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 5/2/2023 12:21:46 PM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 5
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 10126.79
		Obtained Intensity (In 115): 97144.53
		Obtained Intensity (U 238): 110073.91
		Obtained Intensity (Bkgd 220): 2.10
		Obtained Formula (Ce++ 70 / Ce 140): 0.014 (=1802.05 / 133460.56)
		Obtained Formula (CeO 156 / Ce 140): 0.029 (=3834.38 / 133460.56) - <Target not achieved>
		Obtained RSD (Be 9): 0.0122
		Obtained RSD (In 115): 0.0033
		Obtained RSD (U 238): 0.0142

		[Failed]
[Failed]

Torch Alignment
	Optimization Settings:
		Method: Torch Alignment.mth.
		Intensity Criterion: In 115 Maximum

	Optimization Results:
		Vertical	Horizontal	Intensity
[Passed]	0.85 mm	0.80 mm	104569.32

Nebulizer Gas Flow STD/KED [NEB]
	Optimization Settings:
		Method: Optimize.mth.
			Initial Try - Start/End/Step: 0.89/0.96/0.01.
		Intensity Criterion: In 115 Maximum
		Formula Criterion: CeO 156 / Ce 140 <= 0.025

	Optimization Results:
	Initial Try

		Obtained Intensity (In 115): 93685.19
		Obtained Formula (CeO 156 / Ce 140): 0.0239 (=3079.33 / 128703.16)
[Passed] Optimum value(s): 0.91

Mass Calibration and Resolution
Optimization Settings:
Method: Tuning.mth.
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Iterations: 6
Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
Peak height (%) for Res. Opt.: 10

Optimization Results:
Initial Try
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.714)
Target/Obtained mass (23.985/24.025), Target/Obtained resolution (0.7/0.687)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.712)
Target/Obtained mass (238.05/238.125), Target/Obtained resolution (0.7/0.705) - <Target not achieved>
[Failed]
Retry 1
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.690)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.699)
Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.703)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.694)
[Passed] Optimum value(s): N/A

QID STD/DRC
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.998; Intercept = -13.63

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-14	48983.8
Mg	24	41	-14.5	62982.5
In	115	41	-11.5	88243.7
Ce	140	41	-11	131825
Pb	208	41	-11	66598.9
U	238	41	-11.5	107551

KED Mode QID
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.991; Intercept = -14.90

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-14.5	32456.8
Mg	24	41	-13.5	70481.4
In	115	41	-12	130885
Ce	140	41	-11	132544
Pb	208	41	-10	57318.8

```
            U       238        41       -10         126494

STD Performance Check
        Optimization Settings:
                Method: STD Performance Check.mth.
                Intensity Criterion: Be 9 > 2000
                Intensity Criterion: In 115 > 40000
                Intensity Criterion: U 238 > 30000
                Intensity Criterion: Bkgd 220 <= 5
                Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
                Formula Criterion: CeO 156 / Ce 140 <= 0.025
                RSD Criterion: Be 9.0122 < 0.05
                RSD Criterion: In 114.904 < 0.05
                RSD Criterion: U 238.05 < 0.05

        Optimization Results:
        Initial Try
                Obtained Intensity (Be 9): 9961.74
                Obtained Intensity (In 115): 88987.18
                Obtained Intensity (U 238): 105363.98
                Obtained Intensity (Bkgd 220): 1.17
                Obtained Formula (Ce++ 70 / Ce 140): 0.012 (=1481.28 / 123241.26)
                Obtained Formula (CeO 156 / Ce 140): 0.024 (=2970.11 / 123241.26)
                Obtained RSD (Be 9): 0.0176
                Obtained RSD (In 115): 0.0102
                Obtained RSD (U 238): 0.0195

[Passed]  Optimum value(s): N/A

End Time: 5/2/2023 12:33:53 PM
```

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, May 02, 2023 13:08:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				41052	1	Standard
	Cl	**37**		ug/L				6862762	2	Standard
⌈>	**Sc**	**45**		ug/L				744790	1	Standard
|	**Cr**	**52**		ug/L				17916	2	Standard
|	**Cr**	**53**		ug/L				193	12	Standard
⌊	**Mn**	**55**		ug/L				1339	5	Standard
⌈>	**Ge**	**72**		ug/L				52201	1	KED
|	**Ni**	**60**		ug/L				76	13	KED
|	**Ni**	**62**		ug/L				14	65	KED
|	**Cu**	**63**		ug/L				45	7	KED
|	**Cu**	**65**		ug/L				26	4	KED
|	**Zn**	**66**		ug/L				37	19	KED
|	**Zn**	**67**		ug/L				5	33	KED
⌊	**As**	**75**		ug/L				3	30	KED
	Y	**89**		ug/L				349986	1	Standard
	Kr	**83**		ug/L				59	25	Standard
⌈>	**In-1**	**115**		ug/L				11206	0	KED
|	**Cd**	**111**		ug/L				6	8	KED
⌊	**Cd**	**114**		ug/L				6	64	KED
⌈>	**In**	**115**		ug/L				519240	2	Standard
⌊	**Ag**	**107**		ug/L				62	17	Standard
⌈>	**Tb**	**159**		ug/L				1339656	1	Standard
⌊	**Pb**	**208**		ug/L				179	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, May 02, 2023 13:12:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41052	40707	2	Standard
	Cl	**37**		ug/L			6862762	6868023	2	Standard
⌈>	**Sc**	**45**		ug/L			744790	724927	2	Standard
|	**Cr**	**52**	**0.500**	ug/L	0.047	9	17916	30509	1	Standard
|	**Cr**	**53**	**0.500**	ug/L	0.013	2	193	1627	0	Standard
⌊	**Mn**	**55**	**0.500**	ug/L	0.026	5	1339	20769	3	Standard
⌈>	**Ge**	**72**		ug/L			52201	50444	1	KED
|	**Ni**	**60**	**0.500**	ug/L	0.032	6	76	1042	5	KED
|	**Ni**	**62**	**0.500**	ug/L	0.059	11	14	161	11	KED
|	**Cu**	**63**	**0.500**	ug/L	0.018	3	45	2861	1	KED
|	**Cu**	**65**	**0.500**	ug/L	0.028	5	26	1472	5	KED
|	**Zn**	**66**	**6.000**	ug/L	0.185	3	37	4652	1	KED
|	**Zn**	**67**	**6.000**	ug/L	0.155	2	5	704	3	KED
⌊	**As**	**75**	**0.200**	ug/L	0.042	21	3	80	20	KED
	Y	**89**		ug/L			349986	352045	1	Standard
	Kr	**83**		ug/L			59	51	13	Standard
⌈>	**In-1**	**115**		ug/L			11206	10603	1	KED
|	**Cd**	**111**	**0.100**	ug/L	0.018	17	6	38	15	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.014	14	6	90	14	KED
⌈>	**In**	**115**		ug/L			519240	521992	1	Standard
⌊	**Ag**	**107**	**0.200**	ug/L	0.003	1	62	3884	0	Standard
⌈>	**Tb**	**159**		ug/L			1339656	1307960	1	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.003	2	179	9994	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, May 02, 2023 13:17:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41052	56420	0	Standard
	Cl	**37**		ug/L			6862762	6789313	2	Standard
⌈>	**Sc**	**45**		ug/L			744790	745757	3	Standard
|	**Cr**	**52**	**10.000**	ug/L	0.372	3	17916	284616	0	Standard
|	**Cr**	**53**	**10.001**	ug/L	0.263	2	193	30655	1	Standard
⌊	**Mn**	**55**	**10.000**	ug/L	0.303	3	1339	398670	0	Standard
⌈>	**Ge**	**72**		ug/L			52201	51456	0	KED
|	**Ni**	**60**	**10.000**	ug/L	0.077	0	76	19615	1	KED
|	**Ni**	**62**	**10.001**	ug/L	0.340	3	14	3131	3	KED
|	**Cu**	**63**	**9.999**	ug/L	0.059	0	45	55232	0	KED
|	**Cu**	**65**	**9.999**	ug/L	0.111	1	26	28556	1	KED
|	**Zn**	**66**	**9.982**	ug/L	0.085	0	37	7835	1	KED
|	**Zn**	**67**	**10.182**	ug/L	0.370	3	5	1279	3	KED
⌊	**As**	**75**	**10.000**	ug/L	0.134	1	3	3851	1	KED
	Y	**89**		ug/L			349986	360621	2	Standard
	Kr	**83**		ug/L			59	55	5	Standard
⌈>	**In-1**	**115**		ug/L			11206	10856	1	KED
|	**Cd**	**111**	**10.000**	ug/L	0.424	4	6	3717	4	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.357	3	6	9342	4	KED
⌈>	**In**	**115**		ug/L			519240	514693	2	Standard
⌊	**Ag**	**107**	**10.000**	ug/L	0.217	2	62	198974	2	Standard
⌈>	**Tb**	**159**		ug/L			1339656	1329055	0	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.155	1	179	979325	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, May 02, 2023 13:21:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41052	57000	0	Standard
	Cl	**37**		ug/L			6862762	6736871	1	Standard
⌈>	**Sc**	**45**		ug/L			744790	749664	1	Standard
|	**Cr**	**52**	**19.901**	ug/L	0.244	1	17916	541576	0	Standard
|	**Cr**	**53**	**19.977**	ug/L	0.466	2	193	61099	1	Standard
⌊	**Mn**	**55**	**19.977**	ug/L	0.370	1	1339	795919	0	Standard
⌈>	**Ge**	**72**		ug/L			52201	50963	1	KED
|	**Ni**	**60**	**19.985**	ug/L	0.345	1	76	38630	0	KED
|	**Ni**	**62**	**20.007**	ug/L	0.794	3	14	6199	3	KED
|	**Cu**	**63**	**19.997**	ug/L	0.398	1	45	109269	1	KED
|	**Cu**	**65**	**19.912**	ug/L	0.192	0	26	55323	2	KED
|	**Zn**	**66**	**20.032**	ug/L	0.201	1	37	15609	0	KED
|	**Zn**	**67**	**20.331**	ug/L	0.159	0	5	2653	1	KED
⌊	**As**	**75**	**20.024**	ug/L	0.134	0	3	7670	0	KED
	Y	**89**		ug/L			349986	368685	1	Standard
	Kr	**83**		ug/L			59	58	22	Standard
⌈>	**In-1**	**115**		ug/L			11206	10685	1	KED
|	**Cd**	**111**	**19.991**	ug/L	0.185	0	6	7295	0	KED
⌊	**Cd**	**114**	**20.119**	ug/L	0.293	1	6	18941	1	KED
⌈>	**In**	**115**		ug/L			519240	513679	1	Standard
⌊	**Ag**	**107**	**19.924**	ug/L	0.606	3	62	389617	2	Standard
⌈>	**Tb**	**159**		ug/L			1339656	1324921	1	Standard
⌊	**Pb**	**208**	**19.962**	ug/L	0.248	1	179	1933754	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 13:26:36

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41052	39647	1	Standard
	Cl	**37**		ug/L			6862762	6754087	3	Standard
⌈>	**Sc**	**45**		ug/L			744790	729554	0	Standard
|	**Cr**	**52**	**49.796**	ug/L	0.357	0	17916	1267054	0	Standard
|	**Cr**	**53**	**49.913**	ug/L	0.445	0	193	147039	1	Standard
⌊	**Mn**	**55**	**49.972**	ug/L	0.344	0	1339	1930633	0	Standard
⌈>	**Ge**	**72**		ug/L			52201	49853	0	KED
|	**Ni**	**60**	**49.817**	ug/L	1.077	2	76	92413	2	KED
|	**Ni**	**62**	**49.762**	ug/L	0.427	0	14	14713	0	KED
|	**Cu**	**63**	**49.781**	ug/L	0.703	1	45	260366	1	KED
|	**Cu**	**65**	**49.661**	ug/L	0.607	1	26	130513	1	KED
|	**Zn**	**66**	**49.705**	ug/L	0.546	1	37	36824	0	KED
|	**Zn**	**67**	**49.433**	ug/L	0.201	0	5	5987	0	KED
⌊	**As**	**75**	**49.906**	ug/L	0.396	0	3	18523	0	KED
	Y	**89**		ug/L			349986	347798	2	Standard
	Kr	**83**		ug/L			59	62	21	Standard
⌈>	**In-1**	**115**		ug/L			11206	10637	0	KED
|	**Cd**	**111**	**49.791**	ug/L	0.513	1	6	17710	0	KED
⌊	**Cd**	**114**	**49.660**	ug/L	0.517	1	6	45008	0	KED
⌈>	**In**	**115**		ug/L			519240	501648	1	Standard
⌊	**Ag**	**107**	**49.599**	ug/L	1.441	2	62	910684	2	Standard
⌈>	**Tb**	**159**		ug/L			1339656	1315700	1	Standard
⌊	**Pb**	**208**	**49.780**	ug/L	0.801	1	179	4685423	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, May 02, 2023 13:33:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41052	52708	1	Standard
	Cl	**37**		ug/L			6862762	6804754	1	Standard
>	**Sc**	**45**		ug/L			744790	667791	12	Standard
	Cr	**52**	**102.377**	ug/L	14.900	14	17916	2539827	1	Standard
	Cr	**53**	**101.766**	ug/L	14.282	14	193	288049	1	Standard
	Mn	**55**	**101.592**	ug/L	11.523	11	1339	3757788	1	Standard
>	**Ge**	**72**		ug/L			52201	49560	1	KED
	Ni	**60**	**99.713**	ug/L	1.485	1	76	182039	0	KED
	Ni	**62**	**99.738**	ug/L	1.964	1	14	29048	2	KED
	Cu	**63**	**99.232**	ug/L	1.890	1	45	502973	1	KED
	Cu	**65**	**99.692**	ug/L	1.881	1	26	257728	0	KED
	Zn	**66**	**99.339**	ug/L	1.189	1	37	71571	1	KED
	Zn	**67**	**99.602**	ug/L	0.414	0	5	11831	1	KED
	As	**75**	**99.879**	ug/L	1.298	1	3	36696	0	KED
	Y	**89**		ug/L			349986	327327	11	Standard
	Kr	**83**		ug/L			59	82	8	Standard
>	**In-1**	**115**		ug/L			11206	10633	1	KED
	Cd	**111**	**100.085**	ug/L	1.256	1	6	35678	0	KED
	Cd	**114**	**99.871**	ug/L	0.857	0	6	90082	0	KED
>	**In**	**115**		ug/L			519240	461910	11	Standard
	Ag	**107**	**101.258**	ug/L	12.666	12	62	1770314	0	Standard
>	**Tb**	**159**		ug/L			1339656	1196263	12	Standard
	Pb	**208**	**101.888**	ug/L	14.118	13	179	9197404	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 13:40:21

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41052	41799	2	Standard
	Cl	**37**		ug/L			6862762	6822899	2	Standard
⌈>	**Sc**	**45**		ug/L			744790	745014	1	Standard
|	**Cr**	**52**	**0.022**	ug/L	0.019	86	17916	18526	2	Standard
|	**Cr**	**53**	**-0.010**	ug/L	0.002	21	193	162	4	Standard
⌊	**Mn**	**55**	**-0.005**	ug/L	0.001	16	1339	1136	1	Standard
⌈>	**Ge**	**72**		ug/L			52201	52447	1	KED
|	**Ni**	**60**	**-0.016**	ug/L	0.005	33	76	46	22	KED
|	**Ni**	**62**	**-0.029**	ug/L	0.013	43	14	5	66	KED
|	**Cu**	**63**	**0.001**	ug/L	0.002	154	45	51	16	KED
|	**Cu**	**65**	**0.003**	ug/L	0.001	23	26	34	5	KED
|	**Zn**	**66**	**-0.003**	ug/L	0.010	340	37	35	21	KED
|	**Zn**	**67**	**0.010**	ug/L	0.018	180	5	6	31	KED
⌊	**As**	**75**	**0.011**	ug/L	0.002	19	3	8	11	KED
	Y	**89**		ug/L			349986	363901	3	Standard
	Kr	**83**		ug/L			59	51	9	Standard
⌈>	**In-1**	**115**		ug/L			11206	11105	0	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.006	194	6	5	47	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.003	95	6	3	94	KED
⌈>	**In**	**115**		ug/L			519240	517699	2	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.000	1	62	150	1	Standard
⌈>	**Tb**	**159**		ug/L			1339656	1343120	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	21	179	315	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 13:47:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				42077	2	Standard
	Cl	**37**		ug/L				6747174	2	Standard
⎡>	**Sc**	**45**		ug/L				731768	2	Standard
⎢	**Cr**	**52**		ug/L				18236	1	Standard
⎢	**Cr**	**53**		ug/L				187	5	Standard
⎣	**Mn**	**55**		ug/L				1693	3	Standard
⎡>	**Ge**	**72**		ug/L				52881	1	KED
⎢	**Ni**	**60**		ug/L				58	21	KED
⎢	**Ni**	**62**		ug/L				7	50	KED
⎢	**Cu**	**63**		ug/L				56	13	KED
⎢	**Cu**	**65**		ug/L				28	6	KED
⎢	**Zn**	**66**		ug/L				29	7	KED
⎢	**Zn**	**67**		ug/L				3	124	KED
⎣	**As**	**75**		ug/L				5	18	KED
	Y	**89**		ug/L				361102	2	Standard
	Kr	**83**		ug/L				70	16	Standard
⎡>	**In-1**	**115**		ug/L				11213	2	KED
⎢	**Cd**	**111**		ug/L				2	57	KED
⎣	**Cd**	**114**		ug/L				3	50	KED
⎡>	**In**	**115**		ug/L				510451	2	Standard
⎣	**Ag**	**107**		ug/L				76	6	Standard
⎡>	**Tb**	**159**		ug/L				1318959	1	Standard
⎣	**Pb**	**208**		ug/L				239	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 13:52:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	40546	0	Standard
	Cl	**37**		ug/L			6747174	6746097	2	Standard
⌈>	**Sc**	**45**		ug/L			731768	691788	4	Standard
|	**Cr**	**52**	**0.500**	ug/L	0.038	7	18236	30858	3	Standard
|	**Cr**	**53**	**0.500**	ug/L	0.020	4	187	1689	3	Standard
⌊	**Mn**	**55**	**0.500**	ug/L	0.030	5	1693	20975	2	Standard
⌈>	**Ge**	**72**		ug/L			52881	52144	0	KED
|	**Ni**	**60**	**0.500**	ug/L	0.021	4	58	1032	4	KED
|	**Ni**	**62**	**0.500**	ug/L	0.037	7	7	159	7	KED
|	**Cu**	**63**	**0.500**	ug/L	0.006	1	56	3026	0	KED
|	**Cu**	**65**	**0.500**	ug/L	0.013	2	28	1520	3	KED
|	**Zn**	**66**	**6.000**	ug/L	0.076	1	29	4762	1	KED
|	**Zn**	**67**	**6.000**	ug/L	0.316	5	3	732	5	KED
⌊	**As**	**75**	**0.200**	ug/L	0.020	10	5	76	8	KED
	Y	**89**		ug/L			361102	342641	5	Standard
	Kr	**83**		ug/L			70	73	23	Standard
⌈>	**In-1**	**115**		ug/L			11213	10899	1	KED
|	**Cd**	**111**	**0.100**	ug/L	0.009	9	2	39	9	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.040	39	3	109	37	KED
⌈>	**In**	**115**		ug/L			510451	472311	4	Standard
⌊	**Ag**	**107**	**0.200**	ug/L	0.003	1	76	3891	3	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1236206	5	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.005	5	239	10142	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 13:56:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	57110	2	Standard
	Cl	**37**		ug/L			6747174	6789692	3	Standard
⌈>	**Sc**	**45**		ug/L			731768	731452	2	Standard
|	**Cr**	**52**	**9.998**	ug/L	0.141	1	18236	289508	1	Standard
|	**Cr**	**53**	**9.999**	ug/L	0.141	1	187	30788	1	Standard
⌊	**Mn**	**55**	**10.000**	ug/L	0.179	1	1693	406020	1	Standard
⌈>	**Ge**	**72**		ug/L			52881	52186	1	KED
|	**Ni**	**60**	**10.000**	ug/L	0.140	1	58	19770	0	KED
|	**Ni**	**62**	**10.001**	ug/L	0.221	2	7	3131	1	KED
|	**Cu**	**63**	**9.998**	ug/L	0.126	1	56	55656	1	KED
|	**Cu**	**65**	**9.999**	ug/L	0.071	0	28	28477	2	KED
|	**Zn**	**66**	**10.012**	ug/L	0.093	0	29	7958	0	KED
|	**Zn**	**67**	**10.170**	ug/L	0.175	1	3	1301	2	KED
⌊	**As**	**75**	**10.000**	ug/L	0.078	0	5	3942	0	KED
	Y	**89**		ug/L			361102	361203	2	Standard
	Kr	**83**		ug/L			70	58	9	Standard
⌈>	**In-1**	**115**		ug/L			11213	10842	1	KED
|	**Cd**	**111**	**10.000**	ug/L	0.265	2	2	3838	1	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.200	2	3	9757	0	KED
⌈>	**In**	**115**		ug/L			510451	511490	2	Standard
⌊	**Ag**	**107**	**10.000**	ug/L	0.177	1	76	195401	1	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1335581	1	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.166	1	239	982416	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 14:01:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	56073	1	Standard
	Cl	**37**		ug/L			6747174	6840212	1	Standard
⎡>	**Sc**	**45**		ug/L			731768	736117	1	Standard
⎢	**Cr**	**52**	**19.755**	ug/L	0.337	1	18236	532763	1	Standard
⎢	**Cr**	**53**	**19.899**	ug/L	0.219	1	187	60274	1	Standard
⎣	**Mn**	**55**	**19.863**	ug/L	0.297	1	1693	788845	3	Standard
⎡>	**Ge**	**72**		ug/L			52881	51507	0	KED
⎢	**Ni**	**60**	**19.970**	ug/L	0.360	1	58	38680	2	KED
⎢	**Ni**	**62**	**20.101**	ug/L	0.828	4	7	6330	3	KED
⎢	**Cu**	**63**	**19.937**	ug/L	0.413	2	56	108115	1	KED
⎢	**Cu**	**65**	**19.927**	ug/L	0.140	0	28	55176	1	KED
⎢	**Zn**	**66**	**20.009**	ug/L	0.319	1	29	15692	1	KED
⎢	**Zn**	**67**	**20.135**	ug/L	0.378	1	3	2590	1	KED
⎣	**As**	**75**	**19.942**	ug/L	0.156	0	5	7666	0	KED
	Y	**89**		ug/L			361102	364524	0	Standard
	Kr	**83**		ug/L			70	75	8	Standard
⎡>	**In-1**	**115**		ug/L			11213	11079	2	KED
⎢	**Cd**	**111**	**19.801**	ug/L	0.740	3	2	7464	1	KED
⎣	**Cd**	**114**	**19.754**	ug/L	0.828	4	3	18759	1	KED
⎡>	**In**	**115**		ug/L			510451	508421	1	Standard
⎣	**Ag**	**107**	**19.938**	ug/L	0.886	4	76	382372	3	Standard
⎡>	**Tb**	**159**		ug/L			1318959	1326120	0	Standard
⎣	**Pb**	**208**	**19.938**	ug/L	0.201	1	239	1921219	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 14:06:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	41136	1	Standard
	Cl	**37**		ug/L			6747174	6939319	2	Standard
⌈>	**Sc**	**45**		ug/L			731768	725257	0	Standard
|	**Cr**	**52**	**49.717**	ug/L	0.782	1	18236	1258648	1	Standard
|	**Cr**	**53**	**49.708**	ug/L	1.202	2	187	143883	2	Standard
⌊	**Mn**	**55**	**49.646**	ug/L	0.626	1	1693	1873508	1	Standard
⌈>	**Ge**	**72**		ug/L			52881	50008	0	KED
|	**Ni**	**60**	**49.831**	ug/L	0.303	0	58	92069	0	KED
|	**Ni**	**62**	**49.758**	ug/L	1.257	2	7	14850	2	KED
|	**Cu**	**63**	**49.748**	ug/L	0.823	1	56	255435	1	KED
|	**Cu**	**65**	**49.765**	ug/L	0.400	0	28	130675	0	KED
|	**Zn**	**66**	**49.687**	ug/L	0.624	1	29	36718	0	KED
|	**Zn**	**67**	**49.670**	ug/L	0.413	0	3	6014	0	KED
⌊	**As**	**75**	**49.915**	ug/L	0.099	0	5	18466	0	KED
	Y	**89**		ug/L			361102	361029	1	Standard
	Kr	**83**		ug/L			70	80	24	Standard
⌈>	**In-1**	**115**		ug/L			11213	10603	1	KED
|	**Cd**	**111**	**49.920**	ug/L	0.621	1	2	17875	1	KED
⌊	**Cd**	**114**	**49.892**	ug/L	0.373	0	3	44892	1	KED
⌈>	**In**	**115**		ug/L			510451	490489	1	Standard
⌊	**Ag**	**107**	**49.710**	ug/L	0.477	0	76	893991	0	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1294467	1	Standard
⌊	**Pb**	**208**	**49.838**	ug/L	0.691	1	239	4612275	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 14:12:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	52472	1	Standard
	Cl	**37**		ug/L			6747174	6947027	2	Standard
⌈>	**Sc**	**45**		ug/L			731768	712789	0	Standard
|	**Cr**	**52**	**100.770**	ug/L	0.759	0	18236	2554116	1	Standard
|	**Cr**	**53**	**100.130**	ug/L	2.001	1	187	285888	1	Standard
⌊	**Mn**	**55**	**100.357**	ug/L	2.076	2	1693	3765051	1	Standard
⌈>	**Ge**	**72**		ug/L			52881	50088	1	KED
|	**Ni**	**60**	**99.612**	ug/L	1.205	1	58	181907	0	KED
|	**Ni**	**62**	**99.730**	ug/L	1.704	1	7	29535	1	KED
|	**Cu**	**63**	**99.484**	ug/L	1.460	1	56	502846	0	KED
|	**Cu**	**65**	**99.529**	ug/L	1.150	1	28	257683	1	KED
|	**Zn**	**66**	**99.529**	ug/L	0.934	0	29	72514	1	KED
|	**Zn**	**67**	**99.282**	ug/L	1.746	1	3	11757	0	KED
⌊	**As**	**75**	**100.058**	ug/L	1.741	1	5	37134	0	KED
	Y	**89**		ug/L			361102	354333	1	Standard
	Kr	**83**		ug/L			70	89	17	Standard
⌈>	**In-1**	**115**		ug/L			11213	10529	1	KED
|	**Cd**	**111**	**99.788**	ug/L	2.060	2	2	35224	0	KED
⌊	**Cd**	**114**	**100.042**	ug/L	1.013	1	3	89502	0	KED
⌈>	**In**	**115**		ug/L			510451	480950	3	Standard
⌊	**Ag**	**107**	**99.896**	ug/L	1.598	1	76	1755185	2	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1260153	1	Standard
⌊	**Pb**	**208**	**100.241**	ug/L	1.773	1	239	9103503	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 14:19:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	42910	1	Standard
	Cl	**37**		ug/L			6747174	6933874	2	Standard
⌈>	**Sc**	**45**		ug/L			731768	729780	0	Standard
|	**Cr**	**52**	**0.001**	ug/L	0.004	298	18236	18223	1	Standard
|	**Cr**	**53**	**-0.005**	ug/L	0.003	71	187	173	6	Standard
⌊	**Mn**	**55**	**-0.004**	ug/L	0.001	29	1693	1522	3	Standard
⌈>	**Ge**	**72**		ug/L			52881	52259	0	KED
|	**Ni**	**60**	**0.030**	ug/L	0.027	89	58	114	44	KED
|	**Ni**	**62**	**0.029**	ug/L	0.035	120	7	16	65	KED
|	**Cu**	**63**	**0.016**	ug/L	0.029	182	56	139	109	KED
|	**Cu**	**65**	**0.015**	ug/L	0.031	204	28	69	120	KED
|	**Zn**	**66**	**0.018**	ug/L	0.028	154	29	42	49	KED
|	**Zn**	**67**	**0.067**	ug/L	0.016	23	3	11	16	KED
⌊	**As**	**75**	**0.027**	ug/L	0.033	123	5	15	81	KED
	Y	**89**		ug/L			361102	358796	3	Standard
	Kr	**83**		ug/L			70	66	17	Standard
⌈>	**In-1**	**115**		ug/L			11213	11206	2	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.005	658	2	2	78	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.003	56	3	8	33	KED
⌈>	**In**	**115**		ug/L			510451	506583	0	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.000	15	76	133	5	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1291739	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	41	239	320	10	Standard

Sample Information

Sample Date/Time: Tuesday, May 02, 2023 14:12:44
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.m
Mass Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

Calibration

Analyte	Mass	**r Corr Coef**	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
C	13							
Cl	37							
Sc	45							
Cr	52	**0.9999**	0.035	0.50	10	20	50	100
Cr	53	**1.0000**	0.004	0.50	10	20	50	100
Mn	55	**0.9999**	0.053	0.50	10	20	50	100
Ge	72							
Ni	60	**1.0000**	0.036	0.50	10	20	50	100
Ni	62	**1.0000**	0.006	0.50	10	20	50	100
Cu	63	**0.9999**	0.101	0.50	10	20	50	100
Cu	65	**0.9999**	0.052	0.50	10	20	50	100
Zn	66	**0.9999**	0.015	6.00	10	20	50	100
Zn	67	**0.9999**	0.002	6.00	10	20	50	100
As	75	**1.0000**	0.007	0.20	10	20	50	100
Y	89							
Kr	83							
In-1	115							
Cd	111	**1.0000**	0.034	0.10	10	20	50	100
Cd	114	**1.0000**	0.085	0.10	10	20	50	100
In	115							
Ag	107	**1.0000**	0.037	0.20	10	20	50	100
Tb	159							
Pb	208	**1.0000**	0.072	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 14:30:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	50649	0	Standard
	Cl	**37**		ug/L			6747174	6975719	1	Standard
⌈>	**Sc**	**45**		ug/L			731768	728760	1	Standard
|	**Cr**	**52**	**50.629**	ug/L	0.703	1	18236	1321081	2	Standard
|	**Cr**	**53**	**51.490**	ug/L	0.357	0	187	150412	1	Standard
⌊	**Mn**	**55**	**52.556**	ug/L	1.171	2	1693	2017110	3	Standard
⌈>	**Ge**	**72**		ug/L			52881	51738	1	KED
|	**Ni**	**60**	**52.295**	ug/L	0.933	1	58	98674	0	KED
|	**Ni**	**62**	**52.344**	ug/L	1.075	2	7	16017	1	KED
|	**Cu**	**63**	**52.854**	ug/L	0.832	1	56	275996	0	KED
|	**Cu**	**65**	**51.970**	ug/L	0.537	1	28	138999	0	KED
|	**Zn**	**66**	**50.401**	ug/L	0.566	1	29	37946	1	KED
|	**Zn**	**67**	**52.618**	ug/L	2.262	4	3	6438	3	KED
⌊	**As**	**75**	**48.927**	ug/L	0.984	2	5	18761	1	KED
	Y	**89**		ug/L			361102	350751	1	Standard
	Kr	**83**		ug/L			70	73	12	Standard
⌈>	**In-1**	**115**		ug/L			11213	11303	2	KED
|	**Cd**	**111**	**50.207**	ug/L	1.486	2	2	19021	0	KED
⌊	**Cd**	**114**	**50.151**	ug/L	1.529	3	3	48149	1	KED
⌈>	**In**	**115**		ug/L			510451	499264	0	Standard
⌊	**Ag**	**107**	**52.269**	ug/L	1.028	1	76	953483	1	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1286516	2	Standard
⌊	**Pb**	**208**	**51.470**	ug/L	1.448	2	239	4770356	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 14:37:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	43843	1	Standard
	Cl	**37**		ug/L			6747174	6920232	1	Standard
⎡>	**Sc**	**45**		ug/L			731768	727210	1	Standard
⎢	**Cr**	**52**	**0.011**	ug/L	0.004	36	18236	18407	1	Standard
⎢	**Cr**	**53**	**-0.009**	ug/L	0.003	28	187	159	5	Standard
⎣	**Mn**	**55**	**-0.009**	ug/L	0.002	20	1693	1348	5	Standard
⎡>	**Ge**	**72**		ug/L			52881	52631	1	KED
⎢	**Ni**	**60**	**0.022**	ug/L	0.012	56	58	100	22	KED
⎢	**Ni**	**62**	**0.027**	ug/L	0.020	72	7	15	36	KED
⎢	**Cu**	**63**	**0.003**	ug/L	0.006	234	56	70	46	KED
⎢	**Cu**	**65**	**0.002**	ug/L	0.006	423	28	32	52	KED
⎢	**Zn**	**66**	**0.010**	ug/L	0.014	135	29	36	28	KED
⎢	**Zn**	**67**	**0.041**	ug/L	0.010	23	3	8	13	KED
⎣	**As**	**75**	**0.007**	ug/L	0.009	124	5	8	40	KED
	Y	**89**		ug/L			361102	352406	3	Standard
	Kr	**83**		ug/L			70	88	10	Standard
⎡>	**In-1**	**115**		ug/L			11213	11501	0	KED
⎢	**Cd**	**111**	**0.003**	ug/L	0.007	228	2	4	66	KED
⎣	**Cd**	**114**	**0.002**	ug/L	0.002	110	3	5	35	KED
⎡>	**In**	**115**		ug/L			510451	499318	1	Standard
⎣	**Ag**	**107**	**0.003**	ug/L	0.001	44	76	126	17	Standard
⎡>	**Tb**	**159**		ug/L			1318959	1301409	2	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.000	17	239	323	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 14:42:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	41846	2	Standard
	Cl	**37**		ug/L			6747174	7017038	2	Standard
⎡>	**Sc**	**45**		ug/L			731768	723357	1	Standard
⎢	**Cr**	**52**	**49.056**	ug/L	0.429	0	18236	1271050	1	Standard
⎢	**Cr**	**53**	**50.027**	ug/L	0.497	0	187	145058	1	Standard
⎣	**Mn**	**55**	**49.844**	ug/L	0.594	1	1693	1898456	0	Standard
⎡>	**Ge**	**72**		ug/L			52881	51168	0	KED
⎢	**Ni**	**60**	**49.395**	ug/L	0.540	1	58	92191	1	KED
⎢	**Ni**	**62**	**49.216**	ug/L	0.459	0	7	14895	0	KED
⎢	**Cu**	**63**	**50.261**	ug/L	0.349	0	56	259602	0	KED
⎢	**Cu**	**65**	**50.259**	ug/L	0.334	0	28	132951	0	KED
⎢	**Zn**	**66**	**50.239**	ug/L	0.684	1	29	37408	1	KED
⎢	**Zn**	**67**	**50.993**	ug/L	1.108	2	3	6172	2	KED
⎣	**As**	**75**	**49.718**	ug/L	0.476	0	5	18856	0	KED
	Y	**89**		ug/L			361102	357447	1	Standard
	Kr	**83**		ug/L			70	105	15	Standard
⎡>	**In-1**	**115**		ug/L			11213	10744	1	KED
⎢	**Cd**	**111**	**49.685**	ug/L	0.283	0	2	17901	0	KED
⎣	**Cd**	**114**	**50.173**	ug/L	0.571	1	3	45807	0	KED
⎡>	**In**	**115**		ug/L			510451	497121	1	Standard
⎣	**Ag**	**107**	**49.855**	ug/L	1.561	3	76	905506	2	Standard
⎡>	**Tb**	**159**		ug/L			1318959	1275518	2	Standard
⎣	**Pb**	**208**	**50.490**	ug/L	1.559	3	239	4639658	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 14:49:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	43021	1	Standard
	Cl	**37**		ug/L			6747174	6974080	2	Standard
⎡>	**Sc**	**45**		ug/L			731768	726667	0	Standard
⎢	**Cr**	**52**	**0.005**	ug/L	0.024	470	18236	18242	3	Standard
⎢	**Cr**	**53**	**-0.010**	ug/L	0.005	45	187	157	8	Standard
⎣	**Mn**	**55**	**-0.017**	ug/L	0.001	4	1693	1032	2	Standard
⎡>	**Ge**	**72**		ug/L			52881	52264	1	KED
⎢	**Ni**	**60**	**-0.006**	ug/L	0.004	73	58	46	19	KED
⎢	**Ni**	**62**	**0.011**	ug/L	0.025	237	7	10	71	KED
⎢	**Cu**	**63**	**0.001**	ug/L	0.003	233	56	62	23	KED
⎢	**Cu**	**65**	**-0.002**	ug/L	0.002	99	28	22	22	KED
⎢	**Zn**	**66**	**0.006**	ug/L	0.004	57	29	33	8	KED
⎢	**Zn**	**67**	**0.026**	ug/L	0.024	92	3	6	45	KED
⎣	**As**	**75**	**0.005**	ug/L	0.004	93	5	7	24	KED
	Y	**89**		ug/L			361102	354877	0	Standard
	Kr	**83**		ug/L			70	83	15	Standard
⎡>	**In-1**	**115**		ug/L			11213	10974	0	KED
⎢	**Cd**	**111**	**0.011**	ug/L	0.003	24	2	6	14	KED
⎣	**Cd**	**114**	**0.002**	ug/L	0.005	238	3	5	89	KED
⎡>	**In**	**115**		ug/L			510451	503778	2	Standard
⎣	**Ag**	**107**	**0.002**	ug/L	0.001	29	76	120	10	Standard
⎡>	**Tb**	**159**		ug/L			1318959	1289588	2	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.000	26	239	292	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 14:58:48

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	54440	2	Standard
	Cl	**37**		ug/L			6747174	6915863	2	Standard
>	**Sc**	**45**		ug/L			731768	722267	0	Standard
	Cr	**52**	**0.521**	ug/L	0.015	2	18236	31283	2	Standard
	Cr	**53**	**0.498**	ug/L	0.016	3	187	1625	3	Standard
	Mn	**55**	**0.479**	ug/L	0.014	2	1693	19866	3	Standard
>	**Ge**	**72**		ug/L			52881	53016	1	KED
	Ni	**60**	**0.452**	ug/L	0.010	2	58	932	3	KED
	Ni	**62**	**0.511**	ug/L	0.034	6	7	167	4	KED
	Cu	**63**	**0.903**	ug/L	0.026	2	56	4889	1	KED
	Cu	**65**	**0.933**	ug/L	0.037	3	28	2584	3	KED
	Zn	**66**	**6.050**	ug/L	0.119	1	29	4692	0	KED
	Zn	**67**	**5.771**	ug/L	0.283	4	3	726	4	KED
	As	**75**	**0.193**	ug/L	0.017	8	5	81	9	KED
	Y	**89**		ug/L			361102	357576	1	Standard
	Kr	**83**		ug/L			70	100	3	Standard
>	**In-1**	**115**		ug/L			11213	11072	1	KED
	Cd	**111**	**0.104**	ug/L	0.015	14	2	41	11	KED
	Cd	**114**	**0.099**	ug/L	0.007	7	3	96	7	KED
>	**In**	**115**		ug/L			510451	510169	2	Standard
	Ag	**107**	**0.205**	ug/L	0.017	8	76	3887	6	Standard
>	**Tb**	**159**		ug/L			1318959	1286408	1	Standard
	Pb	**208**	**0.103**	ug/L	0.003	3	239	9794	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 15:04:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	41609	1	Standard
	Cl	**37**		ug/L			6747174	6871265	1	Standard
⌈>	**Sc**	**45**		ug/L			731768	714277	2	Standard
|	**Cr**	**52**	**0.518**	ug/L	0.012	2	18236	30849	2	Standard
|	**Cr**	**53**	**0.521**	ug/L	0.004	0	187	1674	2	Standard
⌊	**Mn**	**55**	**0.505**	ug/L	0.003	0	1693	20630	2	Standard
⌈>	**Ge**	**72**		ug/L			52881	51683	1	KED
|	**Ni**	**60**	**0.512**	ug/L	0.038	7	58	1021	6	KED
|	**Ni**	**62**	**0.558**	ug/L	0.074	13	7	177	11	KED
|	**Cu**	**63**	**0.556**	ug/L	0.014	2	56	2956	1	KED
|	**Cu**	**65**	**0.557**	ug/L	0.024	4	28	1516	3	KED
|	**Zn**	**66**	**6.269**	ug/L	0.058	0	29	4740	1	KED
|	**Zn**	**67**	**6.007**	ug/L	0.336	5	3	737	5	KED
⌊	**As**	**75**	**0.215**	ug/L	0.039	18	5	87	17	KED
	Y	**89**		ug/L			361102	354921	4	Standard
	Kr	**83**		ug/L			70	97	7	Standard
⌈>	**In-1**	**115**		ug/L			11213	10778	1	KED
|	**Cd**	**111**	**0.116**	ug/L	0.012	9	2	44	9	KED
⌊	**Cd**	**114**	**0.106**	ug/L	0.026	24	3	100	24	KED
⌈>	**In**	**115**		ug/L			510451	495734	1	Standard
⌊	**Ag**	**107**	**0.216**	ug/L	0.010	4	76	3989	3	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1274951	2	Standard
⌊	**Pb**	**208**	**0.105**	ug/L	0.002	2	239	9882	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 15:08:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	171883	0	Standard
	Cl	**37**		ug/L			6747174	13301432	5	Standard
⌈>	**Sc**	**45**		ug/L			731768	719287	1	Standard
|	**Cr**	**52**	**0.671**	ug/L	0.035	5	18236	34974	3	Standard
|	**Cr**	**53**	**4.459**	ug/L	0.088	1	187	13025	3	Standard
⌊	**Mn**	**55**	**0.101**	ug/L	0.002	1	1693	5505	2	Standard
⌈>	**Ge**	**72**		ug/L			52881	45089	0	KED
|	**Ni**	**60**	**0.098**	ug/L	0.014	13	58	211	10	KED
|	**Ni**	**62**	**0.211**	ug/L	0.029	13	7	62	12	KED
|	**Cu**	**63**	**0.050**	ug/L	0.003	6	56	276	6	KED
|	**Cu**	**65**	**0.053**	ug/L	0.008	15	28	148	13	KED
|	**Zn**	**66**	**0.497**	ug/L	0.061	12	29	350	10	KED
|	**Zn**	**67**	**0.552**	ug/L	0.014	2	3	61	1	KED
⌊	**As**	**75**	**0.037**	ug/L	0.002	5	5	16	3	KED
	Y	**89**		ug/L			361102	324899	3	Standard
	Kr	**83**		ug/L			70	165	3	Standard
⌈>	**In-1**	**115**		ug/L			11213	9712	1	KED
|	**Cd**	**111**	**0.096**	ug/L	0.028	29	2	33	27	KED
⌊	**Cd**	**114**	**0.058**	ug/L	0.013	22	3	51	21	KED
⌈>	**In**	**115**		ug/L			510451	485143	2	Standard
⌊	**Ag**	**107**	**0.015**	ug/L	0.001	7	76	337	4	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1217565	1	Standard
⌊	**Pb**	**208**	**0.037**	ug/L	0.002	5	239	3506	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 15:13:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	167575	1	Standard
	Cl	**37**		ug/L			6747174	13335838	3	Standard
⎡>	**Sc**	**45**		ug/L			731768	719975	1	Standard
⎢	**Cr**	**52**	**19.543**	ug/L	0.265	1	18236	514711	0	Standard
⎢	**Cr**	**53**	**23.879**	ug/L	0.568	2	187	69003	2	Standard
⎣	**Mn**	**55**	**19.494**	ug/L	0.392	2	1693	739940	0	Standard
⎡>	**Ge**	**72**		ug/L			52881	43882	0	KED
⎢	**Ni**	**60**	**20.131**	ug/L	0.413	2	58	32248	1	KED
⎢	**Ni**	**62**	**20.584**	ug/L	0.181	0	7	5346	0	KED
⎢	**Cu**	**63**	**20.099**	ug/L	0.410	2	56	89049	1	KED
⎢	**Cu**	**65**	**20.164**	ug/L	0.143	0	28	45760	1	KED
⎢	**Zn**	**66**	**18.958**	ug/L	0.033	0	29	12121	0	KED
⎢	**Zn**	**67**	**18.252**	ug/L	0.765	4	3	1895	3	KED
⎣	**As**	**75**	**19.382**	ug/L	0.255	1	5	6307	1	KED
	Y	**89**		ug/L			361102	330165	0	Standard
	Kr	**83**		ug/L			70	154	7	Standard
⎡>	**In-1**	**115**		ug/L			11213	9465	2	KED
⎢	**Cd**	**111**	**19.617**	ug/L	0.211	1	2	6227	1	KED
⎣	**Cd**	**114**	**19.821**	ug/L	0.054	0	3	15946	2	KED
⎡>	**In**	**115**		ug/L			510451	502583	2	Standard
⎣	**Ag**	**107**	**18.302**	ug/L	0.662	3	76	335994	1	Standard
⎡>	**Tb**	**159**		ug/L			1318959	1219299	1	Standard
⎣	**Pb**	**208**	**0.020**	ug/L	0.001	5	239	2011	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 15:18:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	49735	1	Standard
	Cl	**37**		ug/L			6747174	6768206	3	Standard
⎡>	**Sc**	**45**		ug/L			731768	691376	2	Standard
⎢	**Cr**	**52**	**194.213**	ug/L	4.027	2	18236	4756985	0	Standard
⎢	**Cr**	**53**	**196.208**	ug/L	2.392	1	187	543131	1	Standard
⎣	**Mn**	**55**	**196.261**	ug/L	4.399	2	1693	7138417	1	Standard
⎡>	**Ge**	**72**		ug/L			52881	42820	1	KED
⎢	**Ni**	**60**	**202.666**	ug/L	1.824	0	58	316365	0	KED
⎢	**Ni**	**62**	**200.971**	ug/L	3.040	1	7	50873	0	KED
⎢	**Cu**	**63**	**200.082**	ug/L	3.673	1	56	864497	0	KED
⎢	**Cu**	**65**	**199.518**	ug/L	3.473	1	28	441523	0	KED
⎢	**Zn**	**66**	**195.526**	ug/L	2.316	1	29	121754	0	KED
⎢	**Zn**	**67**	**195.149**	ug/L	3.066	1	3	19755	0	KED
⎣	**As**	**75**	**202.383**	ug/L	3.029	1	5	64211	0	KED
	Y	**89**		ug/L			361102	322742	0	Standard
	Kr	**83**		ug/L			70	156	9	Standard
⎡>	**In-1**	**115**		ug/L			11213	9411	3	KED
⎢	**Cd**	**111**	**200.656**	ug/L	5.436	2	2	63277	1	KED
⎣	**Cd**	**114**	**200.293**	ug/L	8.803	4	3	160007	0	KED
⎡>	**In**	**115**		ug/L			510451	477270	3	Standard
⎣	**Ag**	**107**	**189.340**	ug/L	4.920	2	76	3300387	2	Standard
⎡>	**Tb**	**159**		ug/L			1318959	1186633	1	Standard
⎣	**Pb**	**208**	**211.895**	ug/L	2.971	1	239	18119477	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 15:22:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	52515	0	Standard
	Cl	**37**		ug/L			6747174	6732124	3	Standard
⌈>	**Sc**	**45**		ug/L			731768	671835	1	Standard
|	**Cr**	**52**	**303.419**	ug/L	2.203	0	18236	7214785	1	Standard
|	**Cr**	**53**	**300.250**	ug/L	3.401	1	187	807761	2	Standard
⌊	**Mn**	**55**	**299.216**	ug/L	3.608	1	1693	10578989	2	Standard
⌈>	**Ge**	**72**		ug/L			52881	42369	1	KED
|	**Ni**	**60**	**304.830**	ug/L	6.834	2	58	470748	0	KED
|	**Ni**	**62**	**303.177**	ug/L	4.967	1	7	75935	0	KED
|	**Cu**	**63**	**295.198**	ug/L	3.318	1	56	1262137	0	KED
|	**Cu**	**65**	**296.309**	ug/L	4.935	1	28	648814	0	KED
|	**Zn**	**66**	**285.507**	ug/L	7.567	2	29	175877	1	KED
|	**Zn**	**67**	**288.547**	ug/L	0.774	0	3	28906	1	KED
⌊	**As**	**75**	**303.738**	ug/L	3.479	1	5	95355	0	KED
	Y	**89**		ug/L			361102	310500	2	Standard
	Kr	**83**		ug/L			70	246	7	Standard
⌈>	**In-1**	**115**		ug/L			11213	9348	1	KED
|	**Cd**	**111**	**293.019**	ug/L	2.044	0	2	91843	0	KED
⌊	**Cd**	**114**	**292.386**	ug/L	6.045	2	3	232221	0	KED
⌈>	**In**	**115**		ug/L			510451	451206	2	Standard
⌊	**Ag**	**107**	**293.213**	ug/L	1.622	0	76	4834070	2	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1090213	1	Standard
⌊	**Pb**	**208**	**337.350**	ug/L	3.206	0	239	26506699	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 15:31:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	51674	2	Standard
	Cl	**37**		ug/L			6747174	6950465	3	Standard
⌈>	**Sc**	**45**		ug/L			731768	725515	2	Standard
|	**Cr**	**52**	**0.100**	ug/L	0.163	162	18236	20698	22	Standard
|	**Cr**	**53**	**0.131**	ug/L	0.160	121	187	573	83	Standard
⌊	**Mn**	**55**	**0.092**	ug/L	0.162	175	1693	5279	120	Standard
⌈>	**Ge**	**72**		ug/L			52881	50152	0	KED
|	**Ni**	**60**	**-0.009**	ug/L	0.005	50	58	38	22	KED
|	**Ni**	**62**	**0.016**	ug/L	0.004	24	7	12	9	KED
|	**Cu**	**63**	**0.003**	ug/L	0.003	91	56	68	20	KED
|	**Cu**	**65**	**0.004**	ug/L	0.002	65	28	36	16	KED
|	**Zn**	**66**	**0.025**	ug/L	0.007	28	29	45	11	KED
|	**Zn**	**67**	**0.028**	ug/L	0.037	131	3	6	69	KED
⌊	**As**	**75**	**0.014**	ug/L	0.002	13	5	10	7	KED
	Y	**89**		ug/L			361102	348089	0	Standard
	Kr	**83**		ug/L			70	75	15	Standard
⌈>	**In-1**	**115**		ug/L			11213	10880	1	KED
|	**Cd**	**111**	**0.009**	ug/L	0.008	90	2	6	48	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.006	67	3	11	45	KED
⌈>	**In**	**115**		ug/L			510451	509125	1	Standard
⌊	**Ag**	**107**	**0.113**	ug/L	0.146	129	76	2187	125	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1292453	0	Standard
⌊	**Pb**	**208**	**0.113**	ug/L	0.135	119	239	10751	117	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 15:37:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	51870	1	Standard
	Cl	**37**		ug/L			6747174	6898355	1	Standard
⎡>	**Sc**	**45**		ug/L			731768	735776	0	Standard
⎢	**Cr**	**52**	**-0.011**	ug/L	0.006	51	18236	18044	1	Standard
⎢	**Cr**	**53**	**0.016**	ug/L	0.005	30	187	236	5	Standard
⎣	**Mn**	**55**	**-0.020**	ug/L	0.000	1	1693	940	1	Standard
⎡>	**Ge**	**72**		ug/L			52881	49953	1	KED
⎢	**Ni**	**60**	**-0.001**	ug/L	0.005	377	58	52	18	KED
⎢	**Ni**	**62**	**0.004**	ug/L	0.026	707	7	8	93	KED
⎢	**Cu**	**63**	**0.002**	ug/L	0.003	137	56	62	21	KED
⎢	**Cu**	**65**	**0.006**	ug/L	0.004	72	28	41	25	KED
⎢	**Zn**	**66**	**0.029**	ug/L	0.002	8	29	48	4	KED
⎢	**Zn**	**67**	**0.039**	ug/L	0.016	40	3	7	25	KED
⎣	**As**	**75**	**-0.000**	ug/L	0.002	4491	5	5	14	KED
	Y	**89**		ug/L			361102	346173	2	Standard
	Kr	**83**		ug/L			70	78	15	Standard
⎡>	**In-1**	**115**		ug/L			11213	10875	0	KED
⎢	**Cd**	**111**	**0.005**	ug/L	0.005	97	2	4	40	KED
⎣	**Cd**	**114**	**0.001**	ug/L	0.005	751	3	4	116	KED
⎡>	**In**	**115**		ug/L			510451	515787	2	Standard
⎣	**Ag**	**107**	**0.004**	ug/L	0.001	25	76	148	11	Standard
⎡>	**Tb**	**159**		ug/L			1318959	1283679	2	Standard
⎣	**Pb**	**208**	**0.002**	ug/L	0.000	13	239	426	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 15:43:08

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			42077	42549	2	Standard
	Cl	37		ug/L			6747174	6997865	4	Standard
>	Sc	45		ug/L			731768	665715	14	Standard
	Cr	52	54.160	ug/L	6.821	12	18236	1274412	3	Standard
	Cr	53	55.249	ug/L	8.059	14	187	145357	1	Standard
	Mn	55	54.389	ug/L	7.634	14	1693	1880878	1	Standard
>	Ge	72		ug/L			52881	48712	1	KED
	Ni	60	50.083	ug/L	0.939	1	58	88966	0	KED
	Ni	62	49.890	ug/L	0.789	1	7	14373	1	KED
	Cu	63	51.960	ug/L	0.673	1	56	255453	0	KED
	Cu	65	50.952	ug/L	1.492	2	28	128270	1	KED
	Zn	66	50.151	ug/L	0.101	0	29	35550	1	KED
	Zn	67	50.033	ug/L	0.310	0	3	5764	1	KED
	As	75	50.009	ug/L	0.762	1	5	18053	0	KED
	Y	89		ug/L			361102	322609	15	Standard
	Kr	83		ug/L			70	104	7	Standard
>	In-1	115		ug/L			11213	10353	1	KED
	Cd	111	50.644	ug/L	0.206	0	2	17582	1	KED
	Cd	114	50.318	ug/L	1.076	2	3	44261	0	KED
>	In	115		ug/L			510451	451854	17	Standard
	Ag	107	56.653	ug/L	9.704	17	76	916817	2	Standard
>	Tb	159		ug/L			1318959	1182152	15	Standard
	Pb	208	56.631	ug/L	9.156	16	239	4742510	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 15:50:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	43204	1	Standard
	Cl	**37**		ug/L			6747174	7137129	2	Standard
⎡>	**Sc**	**45**		ug/L			731768	718725	2	Standard
⎢	**Cr**	**52**	**49.373**	ug/L	0.682	1	18236	1270847	2	Standard
⎢	**Cr**	**53**	**49.265**	ug/L	0.668	1	187	141908	2	Standard
⎣	**Mn**	**55**	**50.613**	ug/L	1.192	2	1693	1914732	0	Standard
⎡>	**Ge**	**72**		ug/L			52881	49573	1	KED
⎢	**Ni**	**60**	**49.869**	ug/L	1.370	2	58	90140	0	KED
⎢	**Ni**	**62**	**49.631**	ug/L	0.658	1	7	14550	0	KED
⎢	**Cu**	**63**	**50.303**	ug/L	0.749	1	56	251667	0	KED
⎢	**Cu**	**65**	**49.379**	ug/L	0.682	1	28	126533	1	KED
⎢	**Zn**	**66**	**49.907**	ug/L	0.394	0	29	36000	1	KED
⎢	**Zn**	**67**	**51.349**	ug/L	1.708	3	3	6020	3	KED
⎣	**As**	**75**	**49.452**	ug/L	0.755	1	5	18167	0	KED
	Y	**89**		ug/L			361102	344606	3	Standard
	Kr	**83**		ug/L			70	91	20	Standard
⎡>	**In-1**	**115**		ug/L			11213	10451	0	KED
⎢	**Cd**	**111**	**50.384**	ug/L	0.642	1	2	17657	0	KED
⎣	**Cd**	**114**	**50.381**	ug/L	0.660	1	3	44743	0	KED
⎡>	**In**	**115**		ug/L			510451	493203	2	Standard
⎣	**Ag**	**107**	**49.290**	ug/L	0.473	0	76	888268	1	Standard
⎡>	**Tb**	**159**		ug/L			1318959	1263310	1	Standard
⎣	**Pb**	**208**	**52.110**	ug/L	0.630	1	239	4744541	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 15:57:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	44225	1	Standard
	Cl	**37**		ug/L			6747174	7018812	2	Standard
⌈>	**Sc**	**45**		ug/L			731768	713569	1	Standard
|	**Cr**	**52**	**-0.010**	ug/L	0.003	31	18236	17518	0	Standard
|	**Cr**	**53**	**0.004**	ug/L	0.002	39	187	195	1	Standard
⌊	**Mn**	**55**	**-0.019**	ug/L	0.004	21	1693	922	16	Standard
⌈>	**Ge**	**72**		ug/L			52881	49375	0	KED
|	**Ni**	**60**	**-0.008**	ug/L	0.005	68	58	40	23	KED
|	**Ni**	**62**	**0.004**	ug/L	0.010	254	7	8	35	KED
|	**Cu**	**63**	**0.004**	ug/L	0.001	25	56	71	6	KED
|	**Cu**	**65**	**0.004**	ug/L	0.005	107	28	37	31	KED
|	**Zn**	**66**	**0.024**	ug/L	0.003	13	29	44	4	KED
|	**Zn**	**67**	**0.067**	ug/L	0.034	50	3	10	36	KED
⌊	**As**	**75**	**0.011**	ug/L	0.006	55	5	8	24	KED
	Y	**89**		ug/L			361102	341514	0	Standard
	Kr	**83**		ug/L			70	86	24	Standard
⌈>	**In-1**	**115**		ug/L			11213	10621	0	KED
|	**Cd**	**111**	**0.005**	ug/L	0.003	62	2	4	24	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.005	181	3	6	80	KED
⌈>	**In**	**115**		ug/L			510451	504632	1	Standard
⌊	**Ag**	**107**	**0.006**	ug/L	0.002	41	76	185	26	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1275559	0	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.003	92	239	511	51	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0517-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 16:03:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			42077	96782	2	Standard
	Cl	37		ug/L			6747174	6903971	2	Standard
>	Sc	45		ug/L			731768	722773	1	Standard
	Cr	52	0.085	ug/L	0.008	9	18236	20181	1	Standard
	Cr	53	0.046	ug/L	0.004	9	187	319	5	Standard
	Mn	55	0.051	ug/L	0.002	4	1693	3616	3	Standard
>	Ge	72		ug/L			52881	50474	0	KED
	Ni	60	0.005	ug/L	0.007	127	58	65	18	KED
	Ni	62	0.029	ug/L	0.010	33	7	15	18	KED
	Cu	63	0.030	ug/L	0.002	7	56	206	5	KED
	Cu	65	0.031	ug/L	0.003	10	28	109	8	KED
	Zn	66	0.347	ug/L	0.022	6	29	282	6	KED
	Zn	67	0.411	ug/L	0.191	46	3	52	44	KED
	As	75	0.003	ug/L	0.007	231	5	6	43	KED
	Y	89		ug/L			361102	338395	3	Standard
	Kr	83		ug/L			70	84	2	Standard
>	In-1	115		ug/L			11213	10739	1	KED
	Cd	111	0.001	ug/L	0.002	131	2	3	17	KED
	Cd	114	0.006	ug/L	0.002	35	3	9	23	KED
>	In	115		ug/L			510451	506073	1	Standard
	Ag	107	0.003	ug/L	0.001	36	76	137	14	Standard
>	Tb	159		ug/L			1318959	1292704	1	Standard
	Pb	208	0.004	ug/L	0.000	2	239	644	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0517-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 16:08:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			42077	107616	2	Standard
	Cl	37		ug/L			6747174	7100631	2	Standard
>	Sc	45		ug/L			731768	726822	1	Standard
	Cr	52	26.831	ug/L	0.698	2	18236	706628	1	Standard
	Cr	53	27.268	ug/L	0.341	1	187	79521	0	Standard
	Mn	55	27.441	ug/L	0.683	2	1693	1051097	3	Standard
>	Ge	72		ug/L			52881	48487	0	KED
	Ni	60	28.085	ug/L	0.360	1	58	49693	1	KED
	Ni	62	27.537	ug/L	0.632	2	7	7899	1	KED
	Cu	63	28.235	ug/L	0.149	0	56	138210	0	KED
	Cu	65	28.118	ug/L	0.268	0	28	70491	0	KED
	Zn	66	90.188	ug/L	1.058	1	29	63612	0	KED
	Zn	67	87.109	ug/L	1.350	1	3	9988	1	KED
	As	75	27.367	ug/L	0.337	1	5	9837	0	KED
	Y	89		ug/L			361102	344740	0	Standard
	Kr	83		ug/L			70	107	2	Standard
>	In-1	115		ug/L			11213	10021	1	KED
	Cd	111	28.485	ug/L	0.178	0	2	9574	1	KED
	Cd	114	28.194	ug/L	0.294	1	3	24011	0	KED
>	In	115		ug/L			510451	489243	1	Standard
	Ag	107	27.668	ug/L	0.721	2	76	494508	0	Standard
>	Tb	159		ug/L			1318959	1255045	1	Standard
	Pb	208	27.684	ug/L	0.439	1	239	2504176	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0054-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 16:12:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			42077	60969	1	Standard
	Cl	37		ug/L			6747174	6949046	2	Standard
⌈>	Sc	45		ug/L			731768	716795	1	Standard
|	Cr	52	0.027	ug/L	0.017	61	18236	18541	0	Standard
|	Cr	53	0.010	ug/L	0.003	33	187	212	2	Standard
⌊	Mn	55	-0.001	ug/L	0.000	18	1693	1622	1	Standard
⌈>	Ge	72		ug/L			52881	48947	1	KED
|	Ni	60	-0.010	ug/L	0.008	79	58	36	39	KED
|	Ni	62	0.006	ug/L	0.016	259	7	8	53	KED
|	Cu	63	0.042	ug/L	0.007	15	56	259	11	KED
|	Cu	65	0.043	ug/L	0.003	6	28	134	5	KED
|	Zn	66	0.162	ug/L	0.027	16	29	142	13	KED
|	Zn	67	0.172	ug/L	0.018	10	3	22	8	KED
⌊	As	75	-0.004	ug/L	0.002	40	5	3	15	KED
	Y	89		ug/L			361102	343845	1	Standard
	Kr	83		ug/L			70	60	4	Standard
⌈>	In-1	115		ug/L			11213	10337	0	KED
|	Cd	111	-0.001	ug/L	0.002	137	2	2	24	KED
⌊	Cd	114	0.004	ug/L	0.001	32	3	6	16	KED
⌈>	In	115		ug/L			510451	501067	1	Standard
⌊	Ag	107	0.002	ug/L	0.000	14	76	120	6	Standard
⌈>	Tb	159		ug/L			1318959	1270786	2	Standard
⌊	Pb	208	0.009	ug/L	0.000	3	239	1027	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0054-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 16:17:02

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	62013	1	Standard
	Cl	**37**		ug/L			6747174	7000667	2	Standard
⌈>	**Sc**	**45**		ug/L			731768	662016	10	Standard
|	**Cr**	**52**	**28.993**	ug/L	2.547	8	18236	690265	2	Standard
|	**Cr**	**53**	**28.831**	ug/L	2.835	9	187	76071	2	Standard
⌊	**Mn**	**55**	**29.042**	ug/L	2.703	9	1693	1006724	2	Standard
⌈>	**Ge**	**72**		ug/L			52881	48954	0	KED
|	**Ni**	**60**	**26.357**	ug/L	0.151	0	58	47089	0	KED
|	**Ni**	**62**	**26.848**	ug/L	0.181	0	7	7777	1	KED
|	**Cu**	**63**	**26.948**	ug/L	0.415	1	56	133183	1	KED
|	**Cu**	**65**	**26.797**	ug/L	0.310	1	28	67826	0	KED
|	**Zn**	**66**	**84.114**	ug/L	0.964	1	29	59901	0	KED
|	**Zn**	**67**	**81.625**	ug/L	1.695	2	3	9449	1	KED
⌊	**As**	**75**	**25.818**	ug/L	0.314	1	5	9370	0	KED
	Y	**89**		ug/L			361102	317800	10	Standard
	Kr	**83**		ug/L			70	100	14	Standard
⌈>	**In-1**	**115**		ug/L			11213	10322	1	KED
|	**Cd**	**111**	**26.058**	ug/L	0.468	1	2	9021	2	KED
⌊	**Cd**	**114**	**25.959**	ug/L	0.352	1	3	22771	1	KED
⌈>	**In**	**115**		ug/L			510451	451242	10	Standard
⌊	**Ag**	**107**	**28.607**	ug/L	2.571	8	76	469071	4	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1164738	11	Standard
⌊	**Pb**	**208**	**29.254**	ug/L	3.322	11	239	2434119	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0054-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 16:23:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			42077	60934	1	Standard
	Cl	37		ug/L			6747174	7181874	2	Standard
>	Sc	45		ug/L			731768	718845	2	Standard
	Cr	52	26.723	ug/L	0.391	1	18236	696095	1	Standard
	Cr	53	26.766	ug/L	0.298	1	187	77224	3	Standard
	Mn	55	26.677	ug/L	0.491	1	1693	1010417	2	Standard
>	Ge	72		ug/L			52881	49459	1	KED
	Ni	60	26.700	ug/L	0.473	1	58	48188	0	KED
	Ni	62	26.672	ug/L	0.365	1	7	7805	0	KED
	Cu	63	27.011	ug/L	0.729	2	56	134851	1	KED
	Cu	65	27.042	ug/L	0.421	1	28	69155	1	KED
	Zn	66	85.522	ug/L	0.510	0	29	61537	1	KED
	Zn	67	81.527	ug/L	2.886	3	3	9535	3	KED
	As	75	25.954	ug/L	0.222	0	5	9516	0	KED
	Y	89		ug/L			361102	347707	2	Standard
	Kr	83		ug/L			70	77	5	Standard
>	In-1	115		ug/L			11213	10498	1	KED
	Cd	111	26.785	ug/L	0.254	0	2	9432	1	KED
	Cd	114	26.783	ug/L	0.471	1	3	23893	0	KED
>	In	115		ug/L			510451	481786	1	Standard
	Ag	107	27.020	ug/L	0.485	1	76	475642	1	Standard
>	Tb	159		ug/L			1318959	1240596	0	Standard
	Pb	208	27.681	ug/L	0.166	0	239	2475273	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0005-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, May 02, 2023 16:28:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			42077	232302	0	Standard
	Cl	37		ug/L			6747174	6976967	2	Standard
>	Sc	45		ug/L			731768	732323	3	Standard
	Cr	52	18.407	ug/L	0.605	3	18236	493931	0	Standard
	Cr	53	18.867	ug/L	0.350	1	187	55481	1	Standard
	Mn	55	50.963	ug/L	1.624	3	1693	1964146	1	Standard
>	Ge	72		ug/L			52881	46706	1	KED
	Ni	60	2.269	ug/L	0.050	2	58	3916	3	KED
	Ni	62	2.377	ug/L	0.146	6	7	662	5	KED
	Cu	63	0.940	ug/L	0.010	1	56	4479	1	KED
	Cu	65	0.927	ug/L	0.043	4	28	2263	5	KED
	Zn	66	30.796	ug/L	0.642	2	29	20938	1	KED
	Zn	67	29.595	ug/L	0.960	3	3	3270	2	KED
	As	75	0.127	ug/L	0.018	14	5	48	12	KED
	Y	89		ug/L			361102	328190	0	Standard
	Kr	83		ug/L			70	73	12	Standard
>	In-1	115		ug/L			11213	10081	0	KED
	Cd	111	0.468	ug/L	0.042	9	2	160	9	KED
	Cd	114	0.441	ug/L	0.084	18	3	381	19	KED
>	In	115		ug/L			510451	495499	0	Standard
	Ag	107	0.020	ug/L	0.001	6	76	432	5	Standard
>	Tb	159		ug/L			1318959	1273098	0	Standard
	Pb	208	0.053	ug/L	0.000	0	239	5090	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0631-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 02, 2023 16:37:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			42077	139351	3	Standard
	Cl	37		ug/L			6747174	12698935	2	Standard
>	Sc	45		ug/L			731768	809508	2	Standard
	Cr	52	2.381	ug/L	0.055	2	18236	88203	1	Standard
	Cr	53	3.764	ug/L	0.131	3	187	12400	2	Standard
	Mn	55	415.672	ug/L	3.106	0	1693	17704480	2	Standard
>	Ge	72		ug/L			52881	44599	0	KED
	Ni	60	2.331	ug/L	0.019	0	58	3839	0	KED
	Ni	62	2.309	ug/L	0.216	9	7	615	9	KED
	Cu	63	6.889	ug/L	0.052	0	56	31055	1	KED
	Cu	65	6.759	ug/L	0.116	1	28	15604	1	KED
	Zn	66	52.593	ug/L	1.276	2	29	34129	1	KED
	Zn	67	53.974	ug/L	1.210	2	3	5693	2	KED
	As	75	1.406	ug/L	0.051	3	5	469	3	KED
	Y	89		ug/L			361102	344953	1	Standard
	Kr	83		ug/L			70	208	9	Standard
>	In-1	115		ug/L			11213	10040	1	KED
	Cd	111	0.427	ug/L	0.035	8	2	146	7	KED
	Cd	114	0.452	ug/L	0.031	6	3	388	7	KED
>	In	115		ug/L			510451	456108	1	Standard
	Ag	107	0.020	ug/L	0.002	11	76	397	8	Standard
>	Tb	159		ug/L			1318959	1227359	0	Standard
	Pb	208	2.236	ug/L	0.024	1	239	198007	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0102-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 02, 2023 16:42:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			42077	73338	1	Standard
	Cl	37		ug/L			6747174	10170167	2	Standard
>	Sc	45		ug/L			731768	751579	3	Standard
	Cr	52	57.384	ug/L	1.185	2	18236	1541005	1	Standard
	Cr	53	61.075	ug/L	1.033	1	187	183895	1	Standard
	Mn	55	4.319	ug/L	0.097	2	1693	172440	1	Standard
>	Ge	72		ug/L			52881	47705	0	KED
	Ni	60	1.957	ug/L	0.014	0	58	3456	0	KED
	Ni	62	2.037	ug/L	0.208	10	7	580	9	KED
	Cu	63	11.029	ug/L	0.106	0	56	53146	0	KED
	Cu	65	11.055	ug/L	0.237	2	28	27281	1	KED
	Zn	66	19.165	ug/L	0.098	0	29	13321	0	KED
	Zn	67	18.028	ug/L	0.631	3	3	2036	3	KED
	As	75	0.147	ug/L	0.006	3	5	56	3	KED
	Y	89		ug/L			361102	335599	1	Standard
	Kr	83		ug/L			70	73	9	Standard
>	In-1	115		ug/L			11213	9904	1	KED
	Cd	111	0.765	ug/L	0.049	6	2	256	6	KED
	Cd	114	0.768	ug/L	0.018	2	3	649	2	KED
>	In	115		ug/L			510451	476659	0	Standard
	Ag	107	0.009	ug/L	0.002	23	76	231	17	Standard
>	Tb	159		ug/L			1318959	1241367	2	Standard
	Pb	208	0.160	ug/L	0.004	2	239	14501	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 16:49:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	46749	2	Standard
	Cl	**37**		ug/L			6747174	7210627	2	Standard
⎡>	**Sc**	**45**		ug/L			731768	704329	1	Standard
⎢	**Cr**	**52**	**-0.008**	ug/L	0.010	123	18236	17348	1	Standard
⎢	**Cr**	**53**	**0.082**	ug/L	0.007	9	187	412	6	Standard
⎣	**Mn**	**55**	**-0.016**	ug/L	0.000	1	1693	1025	1	Standard
⎡>	**Ge**	**72**		ug/L			52881	50336	1	KED
⎢	**Ni**	**60**	**-0.014**	ug/L	0.005	35	58	29	32	KED
⎢	**Ni**	**62**	**-0.005**	ug/L	0.011	210	7	5	57	KED
⎢	**Cu**	**63**	**0.003**	ug/L	0.002	55	56	68	11	KED
⎢	**Cu**	**65**	**0.005**	ug/L	0.002	50	28	40	17	KED
⎢	**Zn**	**66**	**0.055**	ug/L	0.013	23	29	67	14	KED
⎢	**Zn**	**67**	**0.060**	ug/L	0.049	81	3	10	57	KED
⎣	**As**	**75**	**-0.006**	ug/L	0.005	73	5	2	60	KED
	Y	**89**		ug/L			361102	338062	1	Standard
	Kr	**83**		ug/L			70	63	12	Standard
⎡>	**In-1**	**115**		ug/L			11213	10599	1	KED
⎢	**Cd**	**111**	**-0.000**	ug/L	0.001	311	2	2	21	KED
⎣	**Cd**	**114**	**-0.002**	ug/L	0.004	198	3	1	193	KED
⎡>	**In**	**115**		ug/L			510451	493978	0	Standard
⎣	**Ag**	**107**	**-0.001**	ug/L	0.000	43	76	64	6	Standard
⎡>	**Tb**	**159**		ug/L			1318959	1245640	0	Standard
⎣	**Pb**	**208**	**0.002**	ug/L	0.000	10	239	421	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 16:54:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	44664	1	Standard
	Cl	**37**		ug/L			6747174	7163619	2	Standard
⎡>	**Sc**	**45**		ug/L			731768	717567	1	Standard
⎢	**Cr**	**52**	**48.606**	ug/L	0.747	1	18236	1249583	2	Standard
⎢	**Cr**	**53**	**49.362**	ug/L	0.393	0	187	141991	2	Standard
⎣	**Mn**	**55**	**49.433**	ug/L	0.829	1	1693	1868140	3	Standard
⎡>	**Ge**	**72**		ug/L			52881	48316	0	KED
⎢	**Ni**	**60**	**51.163**	ug/L	0.536	1	58	90160	0	KED
⎢	**Ni**	**62**	**50.135**	ug/L	0.503	1	7	14327	1	KED
⎢	**Cu**	**63**	**50.949**	ug/L	0.547	1	56	248463	0	KED
⎢	**Cu**	**65**	**50.969**	ug/L	0.830	1	28	127299	0	KED
⎢	**Zn**	**66**	**50.200**	ug/L	0.624	1	29	35293	0	KED
⎢	**Zn**	**67**	**51.330**	ug/L	0.287	0	3	5866	1	KED
⎣	**As**	**75**	**50.075**	ug/L	0.623	1	5	17931	0	KED
	Y	**89**		ug/L			361102	340699	3	Standard
	Kr	**83**		ug/L			70	78	8	Standard
⎡>	**In-1**	**115**		ug/L			11213	10284	1	KED
⎢	**Cd**	**111**	**50.688**	ug/L	1.234	2	2	17478	1	KED
⎣	**Cd**	**114**	**50.493**	ug/L	0.731	1	3	44126	0	KED
⎡>	**In**	**115**		ug/L			510451	488685	3	Standard
⎣	**Ag**	**107**	**49.073**	ug/L	1.703	3	76	875576	0	Standard
⎡>	**Tb**	**159**		ug/L			1318959	1254641	3	Standard
⎣	**Pb**	**208**	**50.711**	ug/L	1.989	3	239	4582326	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 17:01:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	44843	2	Standard
	Cl	**37**		ug/L			6747174	7126924	2	Standard
⎡>	**Sc**	**45**		ug/L			731768	711143	1	Standard
⎢	**Cr**	**52**	**-0.016**	ug/L	0.014	87	18236	17329	2	Standard
⎢	**Cr**	**53**	**0.018**	ug/L	0.008	41	187	235	9	Standard
⎣	**Mn**	**55**	**-0.022**	ug/L	0.001	2	1693	819	1	Standard
⎡>	**Ge**	**72**		ug/L			52881	50208	1	KED
⎢	**Ni**	**60**	**-0.016**	ug/L	0.007	42	58	26	47	KED
⎢	**Ni**	**62**	**-0.005**	ug/L	0.013	253	7	5	66	KED
⎢	**Cu**	**63**	**0.001**	ug/L	0.001	83	56	60	7	KED
⎢	**Cu**	**65**	**-0.001**	ug/L	0.002	137	28	24	16	KED
⎢	**Zn**	**66**	**0.024**	ug/L	0.010	41	29	45	14	KED
⎢	**Zn**	**67**	**0.060**	ug/L	0.008	13	3	10	10	KED
⎣	**As**	**75**	**-0.001**	ug/L	0.001	159	5	4	5	KED
	Y	**89**		ug/L			361102	348649	0	Standard
	Kr	**83**		ug/L			70	71	24	Standard
⎡>	**In-1**	**115**		ug/L			11213	10750	1	KED
⎢	**Cd**	**111**	**0.004**	ug/L	0.011	283	2	4	96	KED
⎣	**Cd**	**114**	**0.006**	ug/L	0.002	34	3	9	21	KED
⎡>	**In**	**115**		ug/L			510451	492668	2	Standard
⎣	**Ag**	**107**	**0.003**	ug/L	0.001	24	76	120	10	Standard
⎡>	**Tb**	**159**		ug/L			1318959	1245027	1	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.001	39	239	342	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 17:06:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				43168	2	Standard
	Cl	**37**		ug/L				7031855	2	Standard
⎡>	**Sc**	**45**		ug/L				700785	1	Standard
⎢	**Cr**	**52**		ug/L				17028	1	Standard
⎣	**Cr**	**53**		ug/L				213	0	Standard
⎡>	**Ge**	**72**		ug/L				49353	1	KED
⎢	**Ni**	**60**		ug/L				16	24	KED
⎢	**Ni**	**62**		ug/L				8	66	KED
⎢	**Cu**	**63**		ug/L				50	8	KED
⎢	**Cu**	**65**		ug/L				26	37	KED
⎢	**Zn**	**66**		ug/L				28	11	KED
⎢	**Zn**	**67**		ug/L				3	50	KED
⎣	**As**	**75**		ug/L				3	45	KED
	Y	**89**		ug/L				329848	1	Standard
	Kr	**83**		ug/L				67	5	Standard
⎡>	**In-1**	**115**		ug/L				10660	1	KED
⎢	**Cd**	**111**		ug/L				4	66	KED
⎣	**Cd**	**114**		ug/L				3	38	KED
⎡>	**In**	**115**		ug/L				476658	2	Standard
⎣	**Ag**	**107**		ug/L				62	26	Standard
⎡>	**Tb**	**159**		ug/L				1242145	1	Standard
⎣	**Pb**	**208**		ug/L				218	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 17:11:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	42470	1	Standard
	Cl	**37**		ug/L			7031855	7126129	2	Standard
⌈>	**Sc**	**45**		ug/L			700785	705382	0	Standard
|	**Cr**	**52**	**50.003**	ug/L	0.934	1	17028	1262645	2	Standard
⌊	**Cr**	**53**	**50.206**	ug/L	1.183	2	213	141986	2	Standard
⌈>	**Ge**	**72**		ug/L			49353	49121	2	KED
|	**Ni**	**60**	**50.305**	ug/L	0.630	1	16	90083	1	KED
|	**Ni**	**62**	**50.067**	ug/L	1.956	3	8	14539	1	KED
|	**Cu**	**63**	**51.184**	ug/L	0.297	0	50	253771	1	KED
|	**Cu**	**65**	**50.473**	ug/L	0.868	1	26	128154	1	KED
|	**Zn**	**66**	**50.352**	ug/L	0.897	1	28	35987	1	KED
|	**Zn**	**67**	**49.859**	ug/L	1.506	3	3	5791	1	KED
⌊	**As**	**75**	**49.987**	ug/L	1.033	2	3	18193	0	KED
	Y	**89**		ug/L			329848	344602	2	Standard
	Kr	**83**		ug/L			67	83	15	Standard
⌈>	**In-1**	**115**		ug/L			10660	10612	1	KED
|	**Cd**	**111**	**49.068**	ug/L	1.181	2	4	17459	1	KED
⌊	**Cd**	**114**	**49.283**	ug/L	1.424	2	3	44429	1	KED
⌈>	**In**	**115**		ug/L			476658	486900	1	Standard
⌊	**Ag**	**107**	**50.135**	ug/L	0.934	1	62	891890	1	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1245636	0	Standard
⌊	**Pb**	**208**	**51.968**	ug/L	0.414	0	218	4665809	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 17:18:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	42138	2	Standard
	Cl	**37**		ug/L			7031855	6994146	2	Standard
⌈>	**Sc**	**45**		ug/L			700785	713644	3	Standard
|	**Cr**	**52**	**0.000**	ug/L	0.010	9439	17028	17338	1	Standard
⌊	**Cr**	**53**	**-0.006**	ug/L	0.000	6	213	200	3	Standard
⌈>	**Ge**	**72**		ug/L			49353	51167	1	KED
|	**Ni**	**60**	**0.016**	ug/L	0.006	39	16	47	24	KED
|	**Ni**	**62**	**-0.001**	ug/L	0.013	1510	8	8	48	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.001	57	50	41	13	KED
|	**Cu**	**65**	**0.002**	ug/L	0.003	134	26	33	23	KED
|	**Zn**	**66**	**-0.003**	ug/L	0.008	253	28	27	22	KED
|	**Zn**	**67**	**0.036**	ug/L	0.008	23	3	8	13	KED
⌊	**As**	**75**	**0.008**	ug/L	0.005	56	3	7	24	KED
	Y	**89**		ug/L			329848	346450	0	Standard
	Kr	**83**		ug/L			67	55	19	Standard
⌈>	**In-1**	**115**		ug/L			10660	10846	1	KED
|	**Cd**	**111**	**0.009**	ug/L	0.011	125	4	7	52	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.004	134	3	5	60	KED
⌈>	**In**	**115**		ug/L			476658	491605	0	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	30	62	120	13	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1255360	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	32	218	292	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 17:24:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	95960	1	Standard
	Cl	37		ug/L			7031855	6601743	2	Standard
>	Sc	45		ug/L			700785	874559	1	Standard
	Cr	52	11.850	ug/L	0.199	1	17028	387159	1	Standard
	Cr	53	11.934	ug/L	0.097	0	213	42047	1	Standard
>	Ge	72		ug/L			49353	49944	0	KED
	Ni	60	11.127	ug/L	0.307	2	16	20275	2	KED
	Ni	62	11.043	ug/L	0.197	1	8	3268	1	KED
	Cu	63	28.693	ug/L	0.147	0	50	144673	0	KED
	Cu	65	28.721	ug/L	0.234	0	26	74169	0	KED
	Zn	66	52.703	ug/L	0.101	0	28	38304	0	KED
	Zn	67	52.533	ug/L	0.706	1	3	6207	1	KED
	As	75	8.005	ug/L	0.132	1	3	2966	1	KED
	Y	89		ug/L			329848	583079	2	Standard
	Kr	83		ug/L			67	99	8	Standard
>	In-1	115		ug/L			10660	10539	3	KED
	Cd	111	0.154	ug/L	0.009	6	4	58	8	KED
	Cd	114	0.177	ug/L	0.001	0	3	161	3	KED
>	In	115		ug/L			476658	487193	3	Standard
	Ag	107	0.140	ug/L	0.006	4	62	2553	2	Standard
>	Tb	159		ug/L			1242145	1258281	0	Standard
	Pb	208	13.380	ug/L	0.113	0	218	1213652	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 17:28:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			43168	99614	0	Standard
Cl	37		ug/L			7031855	6563557	3	Standard
> Sc	45		ug/L			700785	879266	4	Standard
Cr	52	11.424	ug/L	0.141	1	17028	375922	3	Standard
Cr	53	11.667	ug/L	0.118	1	213	41326	3	Standard
> Ge	72		ug/L			49353	48968	1	KED
Ni	60	11.149	ug/L	0.211	1	16	19914	1	KED
Ni	62	10.964	ug/L	0.148	1	8	3181	1	KED
Cu	63	30.483	ug/L	1.061	3	50	150635	1	KED
Cu	65	30.523	ug/L	0.535	1	26	77271	1	KED
Zn	66	71.742	ug/L	0.753	1	28	51109	1	KED
Zn	67	69.825	ug/L	1.032	1	3	8086	0	KED
As	75	5.920	ug/L	0.134	2	3	2152	3	KED
Y	89		ug/L			329848	585362	4	Standard
Kr	83		ug/L			67	121	12	Standard
> In-1	115		ug/L			10660	10292	2	KED
Cd	111	0.169	ug/L	0.016	9	4	62	7	KED
Cd	114	0.145	ug/L	0.015	10	3	129	12	KED
> In	115		ug/L			476658	489627	1	Standard
Ag	107	0.138	ug/L	0.005	3	62	2532	4	Standard
> Tb	159		ug/L			1242145	1250939	3	Standard
Pb	208	13.133	ug/L	0.145	1	218	1184160	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 17:32:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	91496	0	Standard
	Cl	37		ug/L			7031855	6503371	2	Standard
>	Sc	45		ug/L			700785	859091	0	Standard
	Cr	52	11.388	ug/L	0.232	2	17028	366364	2	Standard
	Cr	53	11.548	ug/L	0.151	1	213	39978	2	Standard
>	Ge	72		ug/L			49353	47723	0	KED
	Ni	60	11.896	ug/L	0.207	1	16	20710	1	KED
	Ni	62	11.511	ug/L	0.071	0	8	3255	0	KED
	Cu	63	26.130	ug/L	0.179	0	50	125898	0	KED
	Cu	65	25.732	ug/L	0.251	0	26	63499	1	KED
	Zn	66	52.229	ug/L	0.932	1	28	36272	1	KED
	Zn	67	51.156	ug/L	0.792	1	3	5775	1	KED
	As	75	6.607	ug/L	0.138	2	3	2340	2	KED
	Y	89		ug/L			329848	585791	1	Standard
	Kr	83		ug/L			67	97	24	Standard
>	In-1	115		ug/L			10660	10295	2	KED
	Cd	111	0.154	ug/L	0.012	7	4	57	7	KED
	Cd	114	0.135	ug/L	0.017	12	3	120	10	KED
>	In	115		ug/L			476658	479415	2	Standard
	Ag	107	0.121	ug/L	0.002	1	62	2174	2	Standard
>	Tb	159		ug/L			1242145	1265075	2	Standard
	Pb	208	11.323	ug/L	0.057	0	218	1032537	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 17:37:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	95342	0	Standard
	Cl	37		ug/L			7031855	6591331	2	Standard
>	Sc	45		ug/L			700785	831020	1	Standard
	Cr	52	10.977	ug/L	0.182	1	17028	342368	2	Standard
	Cr	53	11.018	ug/L	0.019	0	213	36906	1	Standard
>	Ge	72		ug/L			49353	49006	1	KED
	Ni	60	9.366	ug/L	0.229	2	16	16743	0	KED
	Ni	62	9.505	ug/L	0.382	4	8	2760	2	KED
	Cu	63	22.142	ug/L	0.609	2	50	109526	1	KED
	Cu	65	22.463	ug/L	0.602	2	26	56911	1	KED
	Zn	66	54.208	ug/L	0.724	1	28	38653	1	KED
	Zn	67	52.445	ug/L	0.311	0	3	6080	2	KED
	As	75	5.229	ug/L	0.224	4	3	1902	2	KED
	Y	89		ug/L			329848	553431	2	Standard
	Kr	83		ug/L			67	99	15	Standard
>	In-1	115		ug/L			10660	10293	3	KED
	Cd	111	0.111	ug/L	0.030	27	4	41	21	KED
	Cd	114	0.083	ug/L	0.004	5	3	75	5	KED
>	In	115		ug/L			476658	492346	1	Standard
	Ag	107	0.090	ug/L	0.010	11	62	1678	10	Standard
>	Tb	159		ug/L			1242145	1278802	1	Standard
	Pb	208	21.395	ug/L	0.528	2	218	1971819	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 17:41:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	100567	0	Standard
	Cl	37		ug/L			7031855	6527866	2	Standard
>	Sc	45		ug/L			700785	875807	1	Standard
	Cr	52	13.064	ug/L	0.115	0	17028	425327	2	Standard
	Cr	53	13.249	ug/L	0.225	1	213	46717	2	Standard
>	Ge	72		ug/L			49353	48365	0	KED
	Ni	60	12.632	ug/L	0.200	1	16	22287	1	KED
	Ni	62	12.978	ug/L	0.210	1	8	3718	1	KED
	Cu	63	33.516	ug/L	0.638	1	50	163622	1	KED
	Cu	65	33.456	ug/L	0.129	0	26	83658	0	KED
	Zn	66	59.467	ug/L	0.526	0	28	41849	0	KED
	Zn	67	58.639	ug/L	0.569	0	3	6708	0	KED
	As	75	7.547	ug/L	0.083	1	3	2708	0	KED
	Y	89		ug/L			329848	610626	2	Standard
	Kr	83		ug/L			67	109	13	Standard
>	In-1	115		ug/L			10660	10185	1	KED
	Cd	111	0.193	ug/L	0.020	10	4	69	11	KED
	Cd	114	0.195	ug/L	0.031	15	3	171	13	KED
>	In	115		ug/L			476658	492804	1	Standard
	Ag	107	0.146	ug/L	0.005	3	62	2701	3	Standard
>	Tb	159		ug/L			1242145	1260103	2	Standard
	Pb	208	13.268	ug/L	0.310	2	218	1204797	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 17:46:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	89872	0	Standard
	Cl	37		ug/L			7031855	6567350	3	Standard
>	Sc	45		ug/L			700785	809820	1	Standard
	Cr	52	10.989	ug/L	0.212	1	17028	333908	1	Standard
	Cr	53	11.306	ug/L	0.084	0	213	36899	1	Standard
>	Ge	72		ug/L			49353	49124	1	KED
	Ni	60	9.652	ug/L	0.079	0	16	17301	1	KED
	Ni	62	9.582	ug/L	0.561	5	8	2789	4	KED
	Cu	63	23.190	ug/L	0.271	1	50	115007	0	KED
	Cu	65	23.411	ug/L	0.707	3	26	59463	2	KED
	Zn	66	62.035	ug/L	1.218	1	28	44335	1	KED
	Zn	67	59.724	ug/L	1.307	2	3	6939	1	KED
	As	75	4.841	ug/L	0.023	0	3	1765	0	KED
	Y	89		ug/L			329848	519034	2	Standard
	Kr	83		ug/L			67	99	10	Standard
>	In-1	115		ug/L			10660	10130	0	KED
	Cd	111	0.135	ug/L	0.018	13	4	49	12	KED
	Cd	114	0.135	ug/L	0.024	17	3	119	18	KED
>	In	115		ug/L			476658	490753	3	Standard
	Ag	107	0.087	ug/L	0.003	3	62	1629	1	Standard
>	Tb	159		ug/L			1242145	1260385	2	Standard
	Pb	208	15.778	ug/L	0.417	2	218	1432924	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 17:50:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			43168	88251	1	Standard
Cl	37		ug/L			7031855	6553597	3	Standard
> Sc	45		ug/L			700785	908055	1	Standard
Cr	52	13.463	ug/L	0.248	1	17028	453747	2	Standard
Cr	53	13.738	ug/L	0.218	1	213	50214	2	Standard
> Ge	72		ug/L			49353	48257	0	KED
Ni	60	14.732	ug/L	0.125	0	16	25932	0	KED
Ni	62	14.797	ug/L	0.685	4	8	4229	4	KED
Cu	63	25.351	ug/L	0.411	1	50	123508	1	KED
Cu	65	25.486	ug/L	0.322	1	26	63593	0	KED
Zn	66	444.270	ug/L	7.981	1	28	311780	1	KED
Zn	67	420.329	ug/L	0.594	0	3	47961	0	KED
As	75	5.896	ug/L	0.155	2	3	2112	2	KED
Y	89		ug/L			329848	670298	1	Standard
Kr	83		ug/L			67	115	24	Standard
> In-1	115		ug/L			10660	10220	1	KED
Cd	111	0.221	ug/L	0.006	2	4	79	3	KED
Cd	114	0.207	ug/L	0.033	15	3	182	15	KED
> In	115		ug/L			476658	477216	2	Standard
Ag	107	0.167	ug/L	0.008	5	62	2966	4	Standard
> Tb	159		ug/L			1242145	1238084	0	Standard
Pb	208	9.598	ug/L	0.074	0	218	856699	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-09
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 17:55:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	94537	1	Standard
	Cl	37		ug/L			7031855	6579120	3	Standard
>	Sc	45		ug/L			700785	864601	2	Standard
	Cr	52	12.698	ug/L	0.190	1	17028	408604	1	Standard
	Cr	53	13.013	ug/L	0.230	1	213	45289	0	Standard
>	Ge	72		ug/L			49353	48108	0	KED
	Ni	60	12.878	ug/L	0.268	2	16	22596	1	KED
	Ni	62	12.630	ug/L	0.207	1	8	3599	1	KED
	Cu	63	26.186	ug/L	0.303	1	50	127176	0	KED
	Cu	65	26.040	ug/L	0.341	1	26	64774	1	KED
	Zn	66	53.414	ug/L	0.463	0	28	37392	0	KED
	Zn	67	52.639	ug/L	1.158	2	3	5990	1	KED
	As	75	5.773	ug/L	0.009	0	3	2061	0	KED
	Y	89		ug/L			329848	584595	0	Standard
	Kr	83		ug/L			67	100	4	Standard
>	In-1	115		ug/L			10660	10105	0	KED
	Cd	111	0.170	ug/L	0.018	10	4	61	9	KED
	Cd	114	0.163	ug/L	0.011	6	3	142	7	KED
>	In	115		ug/L			476658	469214	1	Standard
	Ag	107	0.136	ug/L	0.005	3	62	2393	2	Standard
>	Tb	159		ug/L			1242145	1237152	1	Standard
	Pb	208	11.204	ug/L	0.201	1	218	998987	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 17:59:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	95532	1	Standard
	Cl	37		ug/L			7031855	6573896	2	Standard
⌈>	Sc	45		ug/L			700785	861664	2	Standard
|	Cr	52	12.982	ug/L	0.331	2	17028	415772	0	Standard
⌊	Cr	53	13.331	ug/L	0.282	2	213	46233	1	Standard
⌈>	Ge	72		ug/L			49353	47244	0	KED
|	Ni	60	13.098	ug/L	0.111	0	16	22572	1	KED
|	Ni	62	12.858	ug/L	0.280	2	8	3599	2	KED
|	Cu	63	26.927	ug/L	0.196	0	50	128432	0	KED
|	Cu	65	27.062	ug/L	0.301	1	26	66109	1	KED
|	Zn	66	54.350	ug/L	1.121	2	28	37364	1	KED
|	Zn	67	53.951	ug/L	0.440	0	3	6029	0	KED
⌊	As	75	6.841	ug/L	0.058	0	3	2398	0	KED
	Y	89		ug/L			329848	582325	1	Standard
	Kr	83		ug/L			67	95	4	Standard
⌈>	In-1	115		ug/L			10660	9827	2	KED
|	Cd	111	0.176	ug/L	0.011	6	4	61	8	KED
⌊	Cd	114	0.174	ug/L	0.015	8	3	147	10	KED
⌈>	In	115		ug/L			476658	484247	3	Standard
⌊	Ag	107	0.128	ug/L	0.006	4	62	2334	1	Standard
⌈>	Tb	159		ug/L			1242145	1227953	0	Standard
⌊	Pb	208	11.225	ug/L	0.167	1	218	993631	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 18:03:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	95171	1	Standard
	Cl	37		ug/L			7031855	6564487	2	Standard
>	Sc	45		ug/L			700785	868553	1	Standard
	Cr	52	12.804	ug/L	0.036	0	17028	413785	1	Standard
	Cr	53	12.998	ug/L	0.138	1	213	45456	0	Standard
>	Ge	72		ug/L			49353	48006	1	KED
	Ni	60	12.890	ug/L	0.110	0	16	22572	0	KED
	Ni	62	13.142	ug/L	0.335	2	8	3738	3	KED
	Cu	63	24.910	ug/L	0.476	1	50	120714	0	KED
	Cu	65	24.797	ug/L	0.747	3	26	61539	1	KED
	Zn	66	54.620	ug/L	1.124	2	28	38150	1	KED
	Zn	67	55.005	ug/L	1.803	3	3	6245	2	KED
	As	75	5.300	ug/L	0.089	1	3	1889	2	KED
	Y	89		ug/L			329848	588581	2	Standard
	Kr	83		ug/L			67	114	11	Standard
>	In-1	115		ug/L			10660	10225	2	KED
	Cd	111	0.139	ug/L	0.024	16	4	51	13	KED
	Cd	114	0.130	ug/L	0.010	7	3	115	10	KED
>	In	115		ug/L			476658	471908	1	Standard
	Ag	107	0.121	ug/L	0.003	2	62	2150	1	Standard
>	Tb	159		ug/L			1242145	1235243	0	Standard
	Pb	208	10.473	ug/L	0.032	0	218	932653	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 18:09:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	44158	1	Standard
	Cl	**37**		ug/L			7031855	6928613	2	Standard
⌈>	**Sc**	**45**		ug/L			700785	700572	1	Standard
|	**Cr**	**52**	**49.828**	ug/L	1.489	2	17028	1249418	1	Standard
⌊	**Cr**	**53**	**50.648**	ug/L	1.249	2	213	142255	2	Standard
⌈>	**Ge**	**72**		ug/L			49353	48242	0	KED
|	**Ni**	**60**	**50.382**	ug/L	0.314	0	16	88615	0	KED
|	**Ni**	**62**	**50.212**	ug/L	0.621	1	8	14329	1	KED
|	**Cu**	**63**	**50.400**	ug/L	0.213	0	50	245426	0	KED
|	**Cu**	**65**	**51.098**	ug/L	0.597	1	26	127441	1	KED
|	**Zn**	**66**	**50.454**	ug/L	0.314	0	28	35421	0	KED
|	**Zn**	**67**	**52.177**	ug/L	0.460	0	3	5954	0	KED
⌊	**As**	**75**	**49.756**	ug/L	0.104	0	3	17790	0	KED
	Y	**89**		ug/L			329848	326601	1	Standard
	Kr	**83**		ug/L			67	74	6	Standard
⌈>	**In-1**	**115**		ug/L			10660	10321	3	KED
|	**Cd**	**111**	**50.599**	ug/L	1.817	3	4	17499	0	KED
⌊	**Cd**	**114**	**50.631**	ug/L	1.131	2	3	44383	1	KED
⌈>	**In**	**115**		ug/L			476658	468865	1	Standard
⌊	**Ag**	**107**	**50.669**	ug/L	0.541	1	62	868000	1	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1251233	0	Standard
⌊	**Pb**	**208**	**51.493**	ug/L	1.034	2	218	4643803	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 18:16:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	42970	2	Standard
	Cl	**37**		ug/L			7031855	6817699	3	Standard
⌈>	**Sc**	**45**		ug/L			700785	691908	3	Standard
|	**Cr**	**52**	**0.008**	ug/L	0.013	161	17028	17001	1	Standard
⌊	**Cr**	**53**	**-0.015**	ug/L	0.003	20	213	168	7	Standard
⌈>	**Ge**	**72**		ug/L			49353	50027	0	KED
|	**Ni**	**60**	**-0.000**	ug/L	0.001	982	16	16	13	KED
|	**Ni**	**62**	**0.002**	ug/L	0.016	912	8	8	53	KED
|	**Cu**	**63**	**0.001**	ug/L	0.003	355	50	55	28	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.001	85	26	24	7	KED
|	**Zn**	**66**	**0.013**	ug/L	0.019	149	28	38	36	KED
|	**Zn**	**67**	**0.016**	ug/L	0.016	103	3	5	33	KED
⌊	**As**	**75**	**0.001**	ug/L	0.001	102	3	4	6	KED
	Y	**89**		ug/L			329848	331031	3	Standard
	Kr	**83**		ug/L			67	59	7	Standard
⌈>	**In-1**	**115**		ug/L			10660	10673	1	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.002	18	4	1	43	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.003	90	3	6	46	KED
⌈>	**In**	**115**		ug/L			476658	483566	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	19	62	92	6	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1235342	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	57	218	281	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 18:24:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	87923	2	Standard
	Cl	37		ug/L			7031855	6578117	2	Standard
>	Sc	45		ug/L			700785	807054	0	Standard
	Cr	52	10.671	ug/L	0.087	0	17028	323729	1	Standard
	Cr	53	10.973	ug/L	0.058	0	213	35698	1	Standard
>	Ge	72		ug/L			49353	49732	0	KED
	Ni	60	10.456	ug/L	0.076	0	16	18972	0	KED
	Ni	62	10.248	ug/L	0.092	0	8	3021	1	KED
	Cu	63	18.881	ug/L	0.165	0	50	94813	1	KED
	Cu	65	18.816	ug/L	0.094	0	26	48393	0	KED
	Zn	66	42.137	ug/L	0.422	1	28	30499	0	KED
	Zn	67	39.711	ug/L	0.524	1	3	4673	1	KED
	As	75	5.191	ug/L	0.098	1	3	1916	1	KED
	Y	89		ug/L			329848	515095	2	Standard
	Kr	83		ug/L			67	80	13	Standard
>	In-1	115		ug/L			10660	10716	2	KED
	Cd	111	0.049	ug/L	0.028	56	4	21	45	KED
	Cd	114	0.044	ug/L	0.017	38	3	42	35	KED
>	In	115		ug/L			476658	474444	2	Standard
	Ag	107	0.075	ug/L	0.004	5	62	1354	4	Standard
>	Tb	159		ug/L			1242145	1224088	3	Standard
	Pb	208	15.885	ug/L	0.581	3	218	1400613	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 18:28:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	87938	1	Standard
	Cl	37		ug/L			7031855	6560400	3	Standard
>	Sc	45		ug/L			700785	841709	1	Standard
	Cr	52	15.207	ug/L	0.199	1	17028	472397	0	Standard
	Cr	53	15.133	ug/L	0.290	1	213	51240	0	Standard
>	Ge	72		ug/L			49353	47802	0	KED
	Ni	60	14.402	ug/L	0.254	1	16	25109	1	KED
	Ni	62	14.297	ug/L	0.260	1	8	4048	1	KED
	Cu	63	39.912	ug/L	0.385	0	50	192582	0	KED
	Cu	65	39.720	ug/L	0.144	0	26	98164	0	KED
	Zn	66	62.090	ug/L	0.966	1	28	43186	1	KED
	Zn	67	62.194	ug/L	1.427	2	3	7032	2	KED
	As	75	7.737	ug/L	0.094	1	3	2744	0	KED
	Y	89		ug/L			329848	564938	0	Standard
	Kr	83		ug/L			67	86	14	Standard
>	In-1	115		ug/L			10660	10355	3	KED
	Cd	111	0.156	ug/L	0.015	9	4	58	5	KED
	Cd	114	0.156	ug/L	0.013	8	3	140	11	KED
>	In	115		ug/L			476658	469011	1	Standard
	Ag	107	0.142	ug/L	0.002	1	62	2496	2	Standard
>	Tb	159		ug/L			1242145	1225538	1	Standard
	Pb	208	14.577	ug/L	0.184	1	218	1287714	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 18:33:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			43168	76341	0	Standard
Cl	37		ug/L			7031855	6519950	2	Standard
> Sc	45		ug/L			700785	906516	2	Standard
Cr	52	14.484	ug/L	0.205	1	17028	485579	1	Standard
Cr	53	14.839	ug/L	0.035	0	213	54125	2	Standard
> Ge	72		ug/L			49353	47075	0	KED
Ni	60	14.362	ug/L	0.185	1	16	24660	0	KED
Ni	62	14.352	ug/L	0.365	2	8	4002	2	KED
Cu	63	28.388	ug/L	0.201	0	50	134912	0	KED
Cu	65	28.108	ug/L	0.476	1	26	68421	2	KED
Zn	66	55.935	ug/L	0.796	1	28	38318	1	KED
Zn	67	55.876	ug/L	0.704	1	3	6222	0	KED
As	75	7.054	ug/L	0.218	3	3	2464	2	KED
Y	89		ug/L			329848	685123	1	Standard
Kr	83		ug/L			67	112	21	Standard
> In-1	115		ug/L			10660	9917	5	KED
Cd	111	0.329	ug/L	0.030	9	4	113	5	KED
Cd	114	0.312	ug/L	0.026	8	3	264	3	KED
> In	115		ug/L			476658	485391	1	Standard
Ag	107	0.230	ug/L	0.002	0	62	4147	0	Standard
> Tb	159		ug/L			1242145	1213344	1	Standard
Pb	208	12.315	ug/L	0.207	1	218	1077008	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-15
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 18:37:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	81461	0	Standard
	Cl	37		ug/L			7031855	6766151	2	Standard
>	Sc	45		ug/L			700785	797531	0	Standard
	Cr	52	11.575	ug/L	0.251	2	17028	345329	1	Standard
	Cr	53	11.774	ug/L	0.129	1	213	37834	1	Standard
>	Ge	72		ug/L			49353	46906	1	KED
	Ni	60	9.266	ug/L	0.261	2	16	15856	2	KED
	Ni	62	9.044	ug/L	0.173	1	8	2516	3	KED
	Cu	63	22.313	ug/L	0.203	0	50	105665	1	KED
	Cu	65	22.681	ug/L	0.275	1	26	55016	2	KED
	Zn	66	50.982	ug/L	0.714	1	28	34795	0	KED
	Zn	67	49.186	ug/L	1.477	3	3	5459	4	KED
	As	75	4.068	ug/L	0.101	2	3	1417	1	KED
	Y	89		ug/L			329848	539381	1	Standard
	Kr	83		ug/L			67	90	16	Standard
>	In-1	115		ug/L			10660	10225	1	KED
	Cd	111	0.105	ug/L	0.011	10	4	40	8	KED
	Cd	114	0.104	ug/L	0.021	20	3	93	20	KED
>	In	115		ug/L			476658	469773	1	Standard
	Ag	107	0.098	ug/L	0.003	3	62	1741	1	Standard
>	Tb	159		ug/L			1242145	1239543	1	Standard
	Pb	208	14.442	ug/L	0.232	1	218	1290225	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0420-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 18:42:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			43168	94366	1	Standard
Cl	37		ug/L			7031855	6433201	3	Standard
Sc	45		ug/L			700785	887486	2	Standard
Cr	52	13.328	ug/L	0.227	1	17028	439170	1	Standard
Cr	53	13.596	ug/L	0.091	0	213	48575	2	Standard
Ge	72		ug/L			49353	47534	0	KED
Ni	60	13.587	ug/L	0.230	1	16	23559	1	KED
Ni	62	13.652	ug/L	0.489	3	8	3844	3	KED
Cu	63	28.772	ug/L	0.273	0	50	138069	0	KED
Cu	65	28.960	ug/L	0.268	0	26	71174	0	KED
Zn	66	57.442	ug/L	1.117	1	28	39732	2	KED
Zn	67	56.608	ug/L	2.056	3	3	6364	3	KED
As	75	6.442	ug/L	0.102	1	3	2272	1	KED
Y	89		ug/L			329848	629311	2	Standard
Kr	83		ug/L			67	104	16	Standard
In-1	115		ug/L			10660	9911	3	KED
Cd	111	0.176	ug/L	0.019	10	4	62	11	KED
Cd	114	0.150	ug/L	0.022	14	3	128	11	KED
In	115		ug/L			476658	469624	1	Standard
Ag	107	0.147	ug/L	0.004	2	62	2590	1	Standard
Tb	159		ug/L			1242145	1238433	2	Standard
Pb	208	12.474	ug/L	0.249	1	218	1113304	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0420-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 18:46:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			43168	79899	0	Standard
Cl	37		ug/L			7031855	6442377	2	Standard
> Sc	45		ug/L			700785	925774	2	Standard
Cr	52	14.934	ug/L	0.241	1	17028	510614	1	Standard
Cr	53	15.453	ug/L	0.059	0	213	57552	2	Standard
> Ge	72		ug/L			49353	47822	1	KED
Ni	60	15.047	ug/L	0.302	2	16	26242	0	KED
Ni	62	15.287	ug/L	0.472	3	8	4328	1	KED
Cu	63	41.462	ug/L	0.401	0	50	200146	1	KED
Cu	65	40.613	ug/L	0.705	1	26	100407	1	KED
Zn	66	71.078	ug/L	0.777	1	28	49451	0	KED
Zn	67	71.147	ug/L	0.097	0	3	8047	1	KED
As	75	8.650	ug/L	0.253	2	3	3068	1	KED
Y	89		ug/L			329848	667202	3	Standard
Kr	83		ug/L			67	119	21	Standard
> In-1	115		ug/L			10660	10113	0	KED
Cd	111	0.225	ug/L	0.032	14	4	80	13	KED
Cd	114	0.228	ug/L	0.014	6	3	198	6	KED
> In	115		ug/L			476658	477300	1	Standard
Ag	107	0.220	ug/L	0.007	3	62	3893	3	Standard
> Tb	159		ug/L			1242145	1227898	1	Standard
Pb	208	20.636	ug/L	0.151	0	218	1826441	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0420-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 18:50:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	87629	1	Standard
	Cl	37		ug/L			7031855	6385397	2	Standard
>	Sc	45		ug/L			700785	868004	2	Standard
	Cr	52	13.091	ug/L	0.066	0	17028	422351	2	Standard
	Cr	53	13.470	ug/L	0.111	0	213	47072	2	Standard
>	Ge	72		ug/L			49353	47347	1	KED
	Ni	60	12.975	ug/L	0.377	2	16	22406	1	KED
	Ni	62	13.334	ug/L	0.358	2	8	3739	1	KED
	Cu	63	32.593	ug/L	0.472	1	50	155772	0	KED
	Cu	65	32.427	ug/L	0.300	0	26	79378	0	KED
	Zn	66	60.429	ug/L	0.771	1	28	41628	0	KED
	Zn	67	59.313	ug/L	0.926	1	3	6642	1	KED
	As	75	5.822	ug/L	0.145	2	3	2046	1	KED
	Y	89		ug/L			329848	604269	4	Standard
	Kr	83		ug/L			67	107	13	Standard
>	In-1	115		ug/L			10660	10255	0	KED
	Cd	111	0.175	ug/L	0.012	7	4	64	7	KED
	Cd	114	0.167	ug/L	0.030	18	3	148	18	KED
>	In	115		ug/L			476658	483869	4	Standard
	Ag	107	0.167	ug/L	0.003	1	62	3023	4	Standard
>	Tb	159		ug/L			1242145	1244306	1	Standard
	Pb	208	15.001	ug/L	0.162	1	218	1345626	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0420-09
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 18:55:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			43168	88144	1	Standard
Cl	37		ug/L			7031855	6381041	4	Standard
> Sc	45		ug/L			700785	892538	3	Standard
Cr	52	13.684	ug/L	0.603	4	17028	452609	2	Standard
Cr	53	13.865	ug/L	0.215	1	213	49798	1	Standard
> Ge	72		ug/L			49353	46888	1	KED
Ni	60	13.559	ug/L	0.381	2	16	23185	1	KED
Ni	62	13.327	ug/L	0.418	3	8	3700	1	KED
Cu	63	26.232	ug/L	0.451	1	50	124152	0	KED
Cu	65	26.429	ug/L	0.738	2	26	64071	2	KED
Zn	66	56.226	ug/L	0.709	1	28	38357	0	KED
Zn	67	56.986	ug/L	0.493	0	3	6321	2	KED
As	75	6.230	ug/L	0.082	1	3	2167	0	KED
Y	89		ug/L			329848	673235	4	Standard
Kr	83		ug/L			67	110	13	Standard
> In-1	115		ug/L			10660	10240	0	KED
Cd	111	0.279	ug/L	0.014	5	4	99	5	KED
Cd	114	0.286	ug/L	0.053	18	3	251	18	KED
> In	115		ug/L			476658	473130	2	Standard
Ag	107	0.238	ug/L	0.003	1	62	4180	2	Standard
> Tb	159		ug/L			1242145	1232547	0	Standard
Pb	208	49.390	ug/L	0.149	0	218	4387862	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0419-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 18:59:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			43168	96310	1	Standard
Cl	37		ug/L			7031855	6419215	2	Standard
> Sc	45		ug/L			700785	884359	2	Standard
Cr	52	12.542	ug/L	0.221	1	17028	413059	0	Standard
Cr	53	12.638	ug/L	0.108	0	213	45015	2	Standard
> Ge	72		ug/L			49353	47157	1	KED
Ni	60	12.730	ug/L	0.416	3	16	21891	1	KED
Ni	62	12.833	ug/L	0.050	0	8	3585	2	KED
Cu	63	29.098	ug/L	0.436	1	50	138509	0	KED
Cu	65	29.100	ug/L	0.591	2	26	70940	0	KED
Zn	66	56.419	ug/L	1.185	2	28	38706	0	KED
Zn	67	55.009	ug/L	1.207	2	3	6137	3	KED
As	75	5.761	ug/L	0.060	1	3	2016	0	KED
Y	89		ug/L			329848	598904	2	Standard
Kr	83		ug/L			67	110	19	Standard
> In-1	115		ug/L			10660	10244	2	KED
Cd	111	0.190	ug/L	0.023	12	4	69	11	KED
Cd	114	0.159	ug/L	0.007	4	3	141	6	KED
> In	115		ug/L			476658	487488	2	Standard
Ag	107	0.137	ug/L	0.003	2	62	2504	2	Standard
> Tb	159		ug/L			1242145	1245240	2	Standard
Pb	208	13.068	ug/L	0.269	2	218	1172717	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0419-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 19:04:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	89693	1	Standard
	Cl	37		ug/L			7031855	6363948	2	Standard
>	Sc	45		ug/L			700785	816616	9	Standard
	Cr	52	13.126	ug/L	1.303	9	17028	395975	0	Standard
	Cr	53	13.463	ug/L	1.427	10	213	43975	2	Standard
>	Ge	72		ug/L			49353	47244	0	KED
	Ni	60	12.207	ug/L	0.122	1	16	21039	1	KED
	Ni	62	12.269	ug/L	0.167	1	8	3434	0	KED
	Cu	63	37.810	ug/L	0.497	1	50	180318	1	KED
	Cu	65	37.707	ug/L	0.269	0	26	92105	1	KED
	Zn	66	57.594	ug/L	1.065	1	28	39591	1	KED
	Zn	67	56.299	ug/L	1.837	3	3	6292	3	KED
	As	75	7.246	ug/L	0.195	2	3	2540	2	KED
	Y	89		ug/L			329848	550728	3	Standard
	Kr	83		ug/L			67	95	7	Standard
>	In-1	115		ug/L			10660	10090	0	KED
	Cd	111	0.069	ug/L	0.011	16	4	27	14	KED
	Cd	114	0.075	ug/L	0.027	35	3	66	34	KED
>	In	115		ug/L			476658	458702	14	Standard
	Ag	107	0.152	ug/L	0.026	16	62	2572	4	Standard
>	Tb	159		ug/L			1242145	1166371	12	Standard
	Pb	208	14.607	ug/L	1.854	12	218	1215687	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 19:09:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	43252	1	Standard
	Cl	**37**		ug/L			7031855	6882962	3	Standard
⌈>	**Sc**	**45**		ug/L			700785	692389	1	Standard
|	**Cr**	**52**	**49.570**	ug/L	0.858	1	17028	1228516	0	Standard
⌊	**Cr**	**53**	**50.281**	ug/L	0.764	1	213	139562	1	Standard
⌈>	**Ge**	**72**		ug/L			49353	47740	0	KED
|	**Ni**	**60**	**51.415**	ug/L	0.949	1	16	89487	1	KED
|	**Ni**	**62**	**50.132**	ug/L	1.012	2	8	14155	1	KED
|	**Cu**	**63**	**51.222**	ug/L	0.305	0	50	246833	1	KED
|	**Cu**	**65**	**51.219**	ug/L	0.482	0	26	126408	0	KED
|	**Zn**	**66**	**50.224**	ug/L	0.674	1	28	34891	0	KED
|	**Zn**	**67**	**50.673**	ug/L	0.414	0	3	5723	0	KED
⌊	**As**	**75**	**50.466**	ug/L	0.524	1	3	17855	0	KED
	Y	**89**		ug/L			329848	322231	1	Standard
	Kr	**83**		ug/L			67	59	8	Standard
⌈>	**In-1**	**115**		ug/L			10660	10202	1	KED
|	**Cd**	**111**	**51.329**	ug/L	1.106	2	4	17557	0	KED
⌊	**Cd**	**114**	**51.243**	ug/L	0.846	1	3	44417	0	KED
⌈>	**In**	**115**		ug/L			476658	469676	2	Standard
⌊	**Ag**	**107**	**50.668**	ug/L	1.418	2	62	869329	1	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1223410	0	Standard
⌊	**Pb**	**208**	**52.675**	ug/L	0.260	0	218	4644927	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 19:16:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	41382	0	Standard
	Cl	**37**		ug/L			7031855	6750526	1	Standard
⌈>	**Sc**	**45**		ug/L			700785	699928	1	Standard
|	**Cr**	**52**	**-0.014**	ug/L	0.008	57	17028	16656	1	Standard
⌊	**Cr**	**53**	**-0.023**	ug/L	0.001	5	213	149	1	Standard
⌈>	**Ge**	**72**		ug/L			49353	48310	1	KED
|	**Ni**	**60**	**0.007**	ug/L	0.001	17	16	28	6	KED
|	**Ni**	**62**	**-0.010**	ug/L	0.010	100	8	5	57	KED
|	**Cu**	**63**	**0.001**	ug/L	0.002	197	50	53	18	KED
|	**Cu**	**65**	**0.002**	ug/L	0.002	113	26	30	16	KED
|	**Zn**	**66**	**0.021**	ug/L	0.014	65	28	42	21	KED
|	**Zn**	**67**	**0.040**	ug/L	0.010	24	3	8	13	KED
⌊	**As**	**75**	**0.000**	ug/L	0.003	1684	3	3	33	KED
	Y	**89**		ug/L			329848	316768	1	Standard
	Kr	**83**		ug/L			67	60	37	Standard
⌈>	**In-1**	**115**		ug/L			10660	10535	0	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.007	410	4	3	68	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.005	381	3	4	111	KED
⌈>	**In**	**115**		ug/L			476658	494224	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	116	62	74	16	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1245986	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	38	218	284	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0419-01
Sample Dil Factor: 100
Comments:
Sample Date/Time: Tuesday, May 02, 2023 19:21:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	51156	0	Standard
	Cl	**37**		ug/L			7031855	6674691	3	Standard
⌈>	**Sc**	**45**		ug/L			700785	736662	1	Standard
|	**Cr**	**52**	**2.683**	ug/L	0.018	0	17028	87688	0	Standard
⌊	**Cr**	**53**	**2.717**	ug/L	0.044	1	213	8236	2	Standard
⌈>	**Ge**	**72**		ug/L			49353	49049	0	KED
|	**Ni**	**60**	**3.755**	ug/L	0.089	2	16	6730	1	KED
|	**Ni**	**62**	**3.787**	ug/L	0.163	4	8	1106	3	KED
|	**Cu**	**63**	**7.373**	ug/L	0.079	1	50	36547	0	KED
|	**Cu**	**65**	**7.446**	ug/L	0.114	1	26	18902	1	KED
|	**Zn**	**66**	**36.211**	ug/L	0.338	0	28	25855	0	KED
|	**Zn**	**67**	**35.111**	ug/L	0.374	1	3	4075	1	KED
⌊	**As**	**75**	**2.281**	ug/L	0.042	1	3	832	1	KED
	Y	**89**		ug/L			329848	378154	5	Standard
	Kr	**83**		ug/L			67	48	32	Standard
⌈>	**In-1**	**115**		ug/L			10660	10513	3	KED
|	**Cd**	**111**	**0.040**	ug/L	0.009	23	4	18	18	KED
⌊	**Cd**	**114**	**0.022**	ug/L	0.008	37	3	22	33	KED
⌈>	**In**	**115**		ug/L			476658	487915	0	Standard
⌊	**Ag**	**107**	**0.014**	ug/L	0.000	2	62	320	1	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1227304	1	Standard
⌊	**Pb**	**208**	**3.756**	ug/L	0.049	1	218	332407	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0452-DUP2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Tuesday, May 02, 2023 19:25:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	51105	1	Standard
	Cl	**37**		ug/L			7031855	6728845	2	Standard
⌈>	**Sc**	**45**		ug/L			700785	734386	1	Standard
|	**Cr**	**52**	**5.883**	ug/L	0.070	1	17028	170382	1	Standard
⌊	**Cr**	**53**	**6.035**	ug/L	0.094	1	213	17966	2	Standard
⌈>	**Ge**	**72**		ug/L			49353	48989	1	KED
|	**Ni**	**60**	**8.396**	ug/L	0.170	2	16	15008	1	KED
|	**Ni**	**62**	**8.589**	ug/L	0.493	5	8	2496	6	KED
|	**Cu**	**63**	**9.460**	ug/L	0.054	0	50	46816	0	KED
|	**Cu**	**65**	**9.516**	ug/L	0.230	2	26	24118	1	KED
|	**Zn**	**66**	**35.625**	ug/L	0.676	1	28	25404	1	KED
|	**Zn**	**67**	**34.303**	ug/L	0.789	2	3	3976	1	KED
⌊	**As**	**75**	**2.731**	ug/L	0.079	2	3	995	1	KED
	Y	**89**		ug/L			329848	373469	1	Standard
	Kr	**83**		ug/L			67	55	16	Standard
⌈>	**In-1**	**115**		ug/L			10660	10547	2	KED
|	**Cd**	**111**	**0.032**	ug/L	0.005	15	4	15	12	KED
⌊	**Cd**	**114**	**0.024**	ug/L	0.006	24	3	24	18	KED
⌈>	**In**	**115**		ug/L			476658	496773	0	Standard
⌊	**Ag**	**107**	**0.016**	ug/L	0.001	8	62	351	6	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1264510	1	Standard
⌊	**Pb**	**208**	**3.577**	ug/L	0.051	1	218	326198	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0452-MS2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Tuesday, May 02, 2023 19:30:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	52082	0	Standard
	Cl	**37**		ug/L			7031855	6788921	2	Standard
⌈>	**Sc**	**45**		ug/L			700785	726491	1	Standard
|	**Cr**	**52**	**9.158**	ug/L	0.135	1	17028	252575	1	Standard
⌊	**Cr**	**53**	**9.260**	ug/L	0.261	2	213	27147	1	Standard
⌈>	**Ge**	**72**		ug/L			49353	49304	1	KED
|	**Ni**	**60**	**8.902**	ug/L	0.138	1	16	16014	1	KED
|	**Ni**	**62**	**9.150**	ug/L	0.240	2	8	2675	3	KED
|	**Cu**	**63**	**17.844**	ug/L	0.168	0	50	88832	0	KED
|	**Cu**	**65**	**17.792**	ug/L	0.397	2	26	45360	1	KED
|	**Zn**	**66**	**55.759**	ug/L	1.434	2	28	39996	1	KED
|	**Zn**	**67**	**53.234**	ug/L	0.495	0	3	6208	1	KED
⌊	**As**	**75**	**7.857**	ug/L	0.083	1	3	2874	0	KED
	Y	**89**		ug/L			329848	372250	2	Standard
	Kr	**83**		ug/L			67	45	28	Standard
⌈>	**In-1**	**115**		ug/L			10660	9965	9	KED
|	**Cd**	**111**	**5.479**	ug/L	0.645	11	4	1821	2	KED
⌊	**Cd**	**114**	**5.411**	ug/L	0.469	8	3	4561	1	KED
⌈>	**In**	**115**		ug/L			476658	498486	1	Standard
⌊	**Ag**	**107**	**4.960**	ug/L	0.037	0	62	90397	0	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1237993	1	Standard
⌊	**Pb**	**208**	**9.571**	ug/L	0.223	2	218	854015	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0452-MSD2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Tuesday, May 02, 2023 19:34:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	50390	1	Standard
	Cl	37		ug/L			7031855	6718286	2	Standard
>	Sc	45		ug/L			700785	731324	2	Standard
	Cr	52	7.800	ug/L	0.026	0	17028	219207	2	Standard
	Cr	53	8.018	ug/L	0.123	1	213	23693	2	Standard
>	Ge	72		ug/L			49353	48464	2	KED
	Ni	60	8.211	ug/L	0.116	1	16	14522	2	KED
	Ni	62	8.174	ug/L	0.305	3	8	2349	3	KED
	Cu	63	13.700	ug/L	0.490	3	50	67022	1	KED
	Cu	65	13.628	ug/L	0.422	3	26	34148	1	KED
	Zn	66	62.170	ug/L	1.147	1	28	43830	0	KED
	Zn	67	59.149	ug/L	2.352	3	3	6777	1	KED
	As	75	9.563	ug/L	0.178	1	3	3437	0	KED
	Y	89		ug/L			329848	385710	2	Standard
	Kr	83		ug/L			67	50	2	Standard
>	In-1	115		ug/L			10660	10348	2	KED
	Cd	111	4.995	ug/L	0.093	1	4	1736	0	KED
	Cd	114	5.092	ug/L	0.080	1	3	4479	1	KED
>	In	115		ug/L			476658	498121	1	Standard
	Ag	107	4.861	ug/L	0.053	1	62	88537	1	Standard
>	Tb	159		ug/L			1242145	1264788	0	Standard
	Pb	208	10.093	ug/L	0.066	0	218	920337	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0452-PS2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Tuesday, May 02, 2023 19:38:58

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	53480	1	Standard
	Cl	**37**		ug/L			7031855	6708681	2	Standard
⌈>	**Sc**	**45**		ug/L			700785	734416	1	Standard
|	**Cr**	**52**	**2.708**	ug/L	0.031	1	17028	88076	2	Standard
⌊	**Cr**	**53**	**2.751**	ug/L	0.054	1	213	8310	0	Standard
⌈>	**Ge**	**72**		ug/L			49353	48750	1	KED
|	**Ni**	**60**	**3.704**	ug/L	0.078	2	16	6597	1	KED
|	**Ni**	**62**	**3.756**	ug/L	0.121	3	8	1090	3	KED
|	**Cu**	**63**	**7.570**	ug/L	0.064	0	50	37291	0	KED
|	**Cu**	**65**	**7.637**	ug/L	0.161	2	26	19268	1	KED
|	**Zn**	**66**	**36.679**	ug/L	0.617	1	28	26026	0	KED
|	**Zn**	**67**	**34.752**	ug/L	0.628	1	3	4008	0	KED
⌊	**As**	**75**	**2.285**	ug/L	0.063	2	3	829	2	KED
	Y	**89**		ug/L			329848	374951	3	Standard
	Kr	**83**		ug/L			67	57	19	Standard
⌈>	**In-1**	**115**		ug/L			10660	10339	0	KED
|	**Cd**	**111**	**0.043**	ug/L	0.007	15	4	19	13	KED
⌊	**Cd**	**114**	**0.036**	ug/L	0.004	12	3	34	11	KED
⌈>	**In**	**115**		ug/L			476658	487587	1	Standard
⌊	**Ag**	**107**	**0.017**	ug/L	0.000	2	62	363	2	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1269427	1	Standard
⌊	**Pb**	**208**	**3.648**	ug/L	0.041	1	218	333987	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0420-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 19:43:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	87230	2	Standard
	Cl	**37**		ug/L			7031855	6496788	2	Standard
⌈>	**Sc**	**45**		ug/L			700785	808715	0	Standard
|	**Cr**	**52**	**16.535**	ug/L	0.125	0	17028	491840	0	Standard
⌊	**Cr**	**53**	**16.763**	ug/L	0.329	1	213	54517	1	Standard
⌈>	**Ge**	**72**		ug/L			49353	46218	0	KED
|	**Ni**	**60**	**23.807**	ug/L	0.125	0	16	40124	0	KED
|	**Ni**	**62**	**23.685**	ug/L	0.341	1	8	6479	1	KED
|	**Cu**	**63**	**39.144**	ug/L	0.604	1	50	182626	1	KED
|	**Cu**	**65**	**39.236**	ug/L	0.242	0	26	93756	0	KED
|	**Zn**	**66**	**142.816**	ug/L	0.780	0	28	96008	0	KED
|	**Zn**	**67**	**135.430**	ug/L	0.687	0	3	14802	0	KED
⌊	**As**	**75**	**16.491**	ug/L	0.125	0	3	5651	0	KED
	Y	**89**		ug/L			329848	505125	4	Standard
	Kr	**83**		ug/L			67	151	8	Standard
⌈>	**In-1**	**115**		ug/L			10660	10024	2	KED
|	**Cd**	**111**	**0.235**	ug/L	0.014	5	4	82	4	KED
⌊	**Cd**	**114**	**0.205**	ug/L	0.018	8	3	177	8	KED
⌈>	**In**	**115**		ug/L			476658	478419	2	Standard
⌊	**Ag**	**107**	**0.122**	ug/L	0.003	2	62	2188	1	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1174954	1	Standard
⌊	**Pb**	**208**	**39.797**	ug/L	0.424	1	218	3370000	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0419-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 19:47:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	76434	1	Standard
	Cl	37		ug/L			7031855	6425664	2	Standard
⌈>	Sc	45		ug/L			700785	813508	3	Standard
|	Cr	52	10.740	ug/L	0.271	2	17028	328105	1	Standard
⌊	Cr	53	10.807	ug/L	0.398	3	213	35411	0	Standard
⌈>	Ge	72		ug/L			49353	46965	1	KED
|	Ni	60	9.476	ug/L	0.158	1	16	16238	1	KED
|	Ni	62	9.216	ug/L	0.154	1	8	2566	2	KED
|	Cu	63	36.699	ug/L	0.887	2	50	173957	1	KED
|	Cu	65	36.506	ug/L	0.794	2	26	88625	0	KED
|	Zn	66	47.690	ug/L	0.932	1	28	32590	0	KED
|	Zn	67	46.214	ug/L	0.536	1	3	5134	1	KED
⌊	As	75	2.338	ug/L	0.065	2	3	817	1	KED
	Y	89		ug/L			329848	542199	0	Standard
	Kr	83		ug/L			67	76	12	Standard
⌈>	In-1	115		ug/L			10660	10208	1	KED
|	Cd	111	0.059	ug/L	0.009	14	4	24	13	KED
⌊	Cd	114	0.046	ug/L	0.007	15	3	42	13	KED
⌈>	In	115		ug/L			476658	495385	1	Standard
⌊	Ag	107	0.076	ug/L	0.002	3	62	1448	4	Standard
⌈>	Tb	159		ug/L			1242145	1271998	1	Standard
⌊	Pb	208	13.242	ug/L	0.302	2	218	1213923	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0419-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 19:52:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	74879	1	Standard
	Cl	37		ug/L			7031855	6435024	3	Standard
>	Sc	45		ug/L			700785	793912	0	Standard
	Cr	52	9.778	ug/L	0.046	0	17028	293396	0	Standard
	Cr	53	9.796	ug/L	0.166	1	213	31375	2	Standard
>	Ge	72		ug/L			49353	47815	1	KED
	Ni	60	8.374	ug/L	0.142	1	16	14610	0	KED
	Ni	62	8.610	ug/L	0.430	4	8	2441	4	KED
	Cu	63	21.224	ug/L	0.374	1	50	102453	0	KED
	Cu	65	21.023	ug/L	0.122	0	26	51982	1	KED
	Zn	66	38.479	ug/L	0.966	2	28	26777	1	KED
	Zn	67	37.777	ug/L	0.212	0	3	4274	1	KED
	As	75	5.090	ug/L	0.062	1	3	1807	1	KED
	Y	89		ug/L			329848	524952	1	Standard
	Kr	83		ug/L			67	73	10	Standard
>	In-1	115		ug/L			10660	10219	1	KED
	Cd	111	0.050	ug/L	0.014	28	4	20	22	KED
	Cd	114	0.054	ug/L	0.007	13	3	49	11	KED
>	In	115		ug/L			476658	489130	3	Standard
	Ag	107	0.057	ug/L	0.004	6	62	1081	3	Standard
>	Tb	159		ug/L			1242145	1224750	0	Standard
	Pb	208	15.988	ug/L	0.180	1	218	1411480	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0419-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 19:56:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	74999	0	Standard
	Cl	37		ug/L			7031855	6492432	2	Standard
>	Sc	45		ug/L			700785	802317	1	Standard
	Cr	52	10.814	ug/L	0.256	2	17028	325792	0	Standard
	Cr	53	11.033	ug/L	0.062	0	213	35680	1	Standard
>	Ge	72		ug/L			49353	46871	0	KED
	Ni	60	11.142	ug/L	0.054	0	16	19053	0	KED
	Ni	62	11.368	ug/L	0.220	1	8	3157	1	KED
	Cu	63	19.049	ug/L	0.219	1	50	90150	0	KED
	Cu	65	19.039	ug/L	0.553	2	26	46142	2	KED
	Zn	66	180.599	ug/L	3.191	1	28	123107	1	KED
	Zn	67	172.129	ug/L	2.271	1	3	19077	0	KED
	As	75	7.737	ug/L	0.062	0	3	2690	1	KED
	Y	89		ug/L			329848	573025	0	Standard
	Kr	83		ug/L			67	78	11	Standard
>	In-1	115		ug/L			10660	9995	0	KED
	Cd	111	0.098	ug/L	0.014	14	4	36	12	KED
	Cd	114	0.085	ug/L	0.015	17	3	75	17	KED
>	In	115		ug/L			476658	477498	2	Standard
	Ag	107	0.065	ug/L	0.002	2	62	1189	5	Standard
>	Tb	159		ug/L			1242145	1242845	0	Standard
	Pb	208	15.499	ug/L	0.186	1	218	1388540	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0419-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 20:00:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	83981	1	Standard
	Cl	37		ug/L			7031855	6427022	1	Standard
>	Sc	45		ug/L			700785	844697	2	Standard
	Cr	52	12.260	ug/L	0.121	0	17028	386169	1	Standard
	Cr	53	12.470	ug/L	0.382	3	213	42404	0	Standard
>	Ge	72		ug/L			49353	46772	0	KED
	Ni	60	11.751	ug/L	0.151	1	16	20051	1	KED
	Ni	62	11.929	ug/L	0.307	2	8	3306	2	KED
	Cu	63	26.327	ug/L	0.268	1	50	124317	1	KED
	Cu	65	26.280	ug/L	0.458	1	26	63555	1	KED
	Zn	66	59.860	ug/L	0.264	0	28	40738	0	KED
	Zn	67	57.855	ug/L	0.609	1	3	6401	1	KED
	As	75	8.708	ug/L	0.173	1	3	3022	2	KED
	Y	89		ug/L			329848	565433	4	Standard
	Kr	83		ug/L			67	89	7	Standard
>	In-1	115		ug/L			10660	8022	36	KED
	Cd	111	0.168	ug/L	0.093	55	4	42	17	KED
	Cd	114	0.146	ug/L	0.067	45	3	91	7	KED
>	In	115		ug/L			476658	480225	1	Standard
	Ag	107	0.110	ug/L	0.003	2	62	1995	2	Standard
>	Tb	159		ug/L			1242145	1198866	1	Standard
	Pb	208	12.769	ug/L	0.209	1	218	1103459	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 20:06:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	43071	0	Standard
	Cl	**37**		ug/L			7031855	6830705	3	Standard
⌈>	**Sc**	**45**		ug/L			700785	687411	2	Standard
|	**Cr**	**52**	**50.001**	ug/L	0.876	1	17028	1230153	1	Standard
⌊	**Cr**	**53**	**50.570**	ug/L	0.748	1	213	139345	0	Standard
⌈>	**Ge**	**72**		ug/L			49353	46918	0	KED
|	**Ni**	**60**	**51.884**	ug/L	0.660	1	16	88749	0	KED
|	**Ni**	**62**	**50.905**	ug/L	1.026	2	8	14128	2	KED
|	**Cu**	**63**	**51.690**	ug/L	0.492	0	50	244784	0	KED
|	**Cu**	**65**	**51.839**	ug/L	0.390	0	26	125740	1	KED
|	**Zn**	**66**	**51.220**	ug/L	0.592	1	28	34973	1	KED
|	**Zn**	**67**	**52.400**	ug/L	0.489	0	3	5816	1	KED
⌊	**As**	**75**	**50.674**	ug/L	0.076	0	3	17621	0	KED
	Y	**89**		ug/L			329848	318323	4	Standard
	Kr	**83**		ug/L			67	60	21	Standard
⌈>	**In-1**	**115**		ug/L			10660	10062	1	KED
|	**Cd**	**111**	**51.035**	ug/L	0.858	1	4	17221	0	KED
⌊	**Cd**	**114**	**51.938**	ug/L	0.583	1	3	44410	0	KED
⌈>	**In**	**115**		ug/L			476658	462314	4	Standard
⌊	**Ag**	**107**	**51.495**	ug/L	1.896	3	62	868901	1	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1199108	1	Standard
⌊	**Pb**	**208**	**54.242**	ug/L	0.494	0	218	4687733	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 20:13:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	42264	2	Standard
	Cl	**37**		ug/L			7031855	6762076	1	Standard
⌈>	**Sc**	**45**		ug/L			700785	692196	2	Standard
|	**Cr**	**52**	**0.007**	ug/L	0.010	150	17028	16978	2	Standard
⌊	**Cr**	**53**	**-0.019**	ug/L	0.009	48	213	158	13	Standard
⌈>	**Ge**	**72**		ug/L			49353	49359	1	KED
|	**Ni**	**60**	**0.006**	ug/L	0.005	78	16	27	31	KED
|	**Ni**	**62**	**0.002**	ug/L	0.014	622	8	8	44	KED
|	**Cu**	**63**	**0.002**	ug/L	0.003	143	50	59	22	KED
|	**Cu**	**65**	**0.000**	ug/L	0.001	145	26	27	7	KED
|	**Zn**	**66**	**0.004**	ug/L	0.019	442	28	31	44	KED
|	**Zn**	**67**	**0.016**	ug/L	0.017	102	3	5	33	KED
⌊	**As**	**75**	**0.006**	ug/L	0.005	83	3	6	29	KED
	Y	**89**		ug/L			329848	326281	2	Standard
	Kr	**83**		ug/L			67	55	22	Standard
⌈>	**In-1**	**115**		ug/L			10660	10410	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.011	358	4	5	75	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.001	190	3	2	53	KED
⌈>	**In**	**115**		ug/L			476658	483975	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	99	62	73	12	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1231454	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	37	218	317	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0419-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 20:18:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	78494	1	Standard
	Cl	37		ug/L			7031855	6535721	3	Standard
>	Sc	45		ug/L			700785	782870	7	Standard
	Cr	52	14.043	ug/L	1.023	7	17028	405759	1	Standard
	Cr	53	14.122	ug/L	0.842	5	213	44362	2	Standard
>	Ge	72		ug/L			49353	47315	1	KED
	Ni	60	13.436	ug/L	0.410	3	16	23181	1	KED
	Ni	62	13.636	ug/L	0.442	3	8	3821	2	KED
	Cu	63	27.459	ug/L	0.698	2	50	131123	0	KED
	Cu	65	27.686	ug/L	0.409	1	26	67722	0	KED
	Zn	66	58.555	ug/L	1.305	2	28	40303	0	KED
	Zn	67	57.684	ug/L	1.747	3	3	6454	2	KED
	As	75	6.219	ug/L	0.069	1	3	2184	2	KED
	Y	89		ug/L			329848	513733	7	Standard
	Kr	83		ug/L			67	94	6	Standard
>	In-1	115		ug/L			10660	10196	1	KED
	Cd	111	0.047	ug/L	0.003	5	4	20	4	KED
	Cd	114	0.073	ug/L	0.010	14	3	65	12	KED
>	In	115		ug/L			476658	453614	10	Standard
	Ag	107	0.089	ug/L	0.005	5	62	1531	11	Standard
>	Tb	159		ug/L			1242145	1145928	9	Standard
	Pb	208	23.046	ug/L	2.344	10	218	1890855	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0419-09
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 20:22:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	79927	1	Standard
	Cl	37		ug/L			7031855	6578533	3	Standard
>	Sc	45		ug/L			700785	836218	1	Standard
	Cr	52	17.228	ug/L	0.236	1	17028	528956	0	Standard
	Cr	53	17.351	ug/L	0.091	0	213	58335	0	Standard
>	Ge	72		ug/L			49353	47646	0	KED
	Ni	60	13.689	ug/L	0.106	0	16	23791	0	KED
	Ni	62	13.471	ug/L	0.596	4	8	3801	3	KED
	Cu	63	30.529	ug/L	0.063	0	50	146842	0	KED
	Cu	65	30.556	ug/L	0.279	0	26	75272	0	KED
	Zn	66	81.756	ug/L	0.605	0	28	56670	0	KED
	Zn	67	79.430	ug/L	1.663	2	3	8950	1	KED
	As	75	6.315	ug/L	0.099	1	3	2233	1	KED
	Y	89		ug/L			329848	566533	0	Standard
	Kr	83		ug/L			67	102	3	Standard
>	In-1	115		ug/L			10660	10017	2	KED
	Cd	111	0.174	ug/L	0.019	10	4	62	9	KED
	Cd	114	0.143	ug/L	0.006	3	3	124	6	KED
>	In	115		ug/L			476658	493791	2	Standard
	Ag	107	0.149	ug/L	0.004	2	62	2760	3	Standard
>	Tb	159		ug/L			1242145	1220076	1	Standard
	Pb	208	20.069	ug/L	0.260	1	218	1764746	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0419-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 20:26:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	75591	1	Standard
	Cl	37		ug/L			7031855	6454551	2	Standard
>	Sc	45		ug/L			700785	811395	2	Standard
	Cr	52	9.765	ug/L	0.237	2	17028	299381	1	Standard
	Cr	53	10.052	ug/L	0.186	1	213	32886	0	Standard
>	Ge	72		ug/L			49353	47628	1	KED
	Ni	60	9.842	ug/L	0.277	2	16	17099	1	KED
	Ni	62	9.972	ug/L	0.365	3	8	2814	2	KED
	Cu	63	16.542	ug/L	0.469	2	50	79542	2	KED
	Cu	65	16.576	ug/L	0.458	2	26	40820	1	KED
	Zn	66	36.017	ug/L	0.998	2	28	24964	1	KED
	Zn	67	35.759	ug/L	1.069	2	3	4029	1	KED
	As	75	5.427	ug/L	0.149	2	3	1918	2	KED
	Y	89		ug/L			329848	537371	2	Standard
	Kr	83		ug/L			67	82	10	Standard
>	In-1	115		ug/L			10660	10257	1	KED
	Cd	111	0.044	ug/L	0.017	39	4	19	30	KED
	Cd	114	0.038	ug/L	0.008	20	3	36	18	KED
>	In	115		ug/L			476658	489574	1	Standard
	Ag	107	0.075	ug/L	0.004	4	62	1412	2	Standard
>	Tb	159		ug/L			1242145	1240123	0	Standard
	Pb	208	14.153	ug/L	0.069	0	218	1265190	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0419-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 20:31:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	81276	1	Standard
	Cl	37		ug/L			7031855	6446721	2	Standard
>	Sc	45		ug/L			700785	865510	1	Standard
	Cr	52	12.149	ug/L	0.257	2	17028	392264	0	Standard
	Cr	53	12.297	ug/L	0.127	1	213	42874	2	Standard
>	Ge	72		ug/L			49353	46836	1	KED
	Ni	60	12.601	ug/L	0.690	5	16	21519	4	KED
	Ni	62	12.760	ug/L	0.696	5	8	3538	3	KED
	Cu	63	24.986	ug/L	1.124	4	50	118095	3	KED
	Cu	65	24.694	ug/L	1.085	4	26	59777	2	KED
	Zn	66	50.562	ug/L	2.279	4	28	34445	2	KED
	Zn	67	50.347	ug/L	3.023	6	3	5575	4	KED
	As	75	6.057	ug/L	0.316	5	3	2104	4	KED
	Y	89		ug/L			329848	590990	3	Standard
	Kr	83		ug/L			67	102	23	Standard
>	In-1	115		ug/L			10660	9812	2	KED
	Cd	111	0.179	ug/L	0.017	9	4	62	7	KED
	Cd	114	0.159	ug/L	0.019	11	3	135	10	KED
>	In	115		ug/L			476658	474859	2	Standard
	Ag	107	0.121	ug/L	0.002	1	62	2169	1	Standard
>	Tb	159		ug/L			1242145	1197106	1	Standard
	Pb	208	10.847	ug/L	0.344	3	218	935731	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0419-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 20:35:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	81517	1	Standard
	Cl	37		ug/L			7031855	6413954	3	Standard
>	Sc	45		ug/L			700785	843417	1	Standard
	Cr	52	12.935	ug/L	0.265	2	17028	405803	3	Standard
	Cr	53	13.225	ug/L	0.115	0	213	44913	1	Standard
>	Ge	72		ug/L			49353	46142	1	KED
	Ni	60	11.528	ug/L	0.166	1	16	19401	0	KED
	Ni	62	11.440	ug/L	0.290	2	8	3127	0	KED
	Cu	63	33.178	ug/L	0.126	0	50	154542	1	KED
	Cu	65	33.199	ug/L	0.314	0	26	79194	0	KED
	Zn	66	63.286	ug/L	1.562	2	28	42475	0	KED
	Zn	67	61.650	ug/L	1.747	2	3	6729	3	KED
	As	75	7.786	ug/L	0.098	1	3	2665	0	KED
	Y	89		ug/L			329848	562053	0	Standard
	Kr	83		ug/L			67	93	9	Standard
>	In-1	115		ug/L			10660	9939	1	KED
	Cd	111	0.236	ug/L	0.024	10	4	82	11	KED
	Cd	114	0.243	ug/L	0.011	4	3	208	2	KED
>	In	115		ug/L			476658	481510	1	Standard
	Ag	107	0.157	ug/L	0.009	5	62	2826	5	Standard
>	Tb	159		ug/L			1242145	1220437	2	Standard
	Pb	208	16.356	ug/L	0.307	1	218	1438565	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0752-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 20:40:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	101687	0	Standard
	Cl	37		ug/L			7031855	6469968	3	Standard
>	Sc	45		ug/L			700785	852549	3	Standard
	Cr	52	14.192	ug/L	0.526	3	17028	447611	0	Standard
	Cr	53	14.428	ug/L	0.277	1	213	49480	1	Standard
>	Ge	72		ug/L			49353	46411	0	KED
	Ni	60	13.847	ug/L	0.300	2	16	23438	1	KED
	Ni	62	13.882	ug/L	0.134	0	8	3816	0	KED
	Cu	63	38.584	ug/L	0.424	1	50	180756	0	KED
	Cu	65	38.099	ug/L	0.217	0	26	91415	0	KED
	Zn	66	72.651	ug/L	1.535	2	28	49052	1	KED
	Zn	67	71.136	ug/L	1.474	2	3	7808	1	KED
	As	75	8.926	ug/L	0.028	0	3	3073	0	KED
	Y	89		ug/L			329848	593025	3	Standard
	Kr	83		ug/L			67	106	13	Standard
>	In-1	115		ug/L			10660	9934	1	KED
	Cd	111	0.247	ug/L	0.034	13	4	86	11	KED
	Cd	114	0.213	ug/L	0.015	7	3	182	5	KED
>	In	115		ug/L			476658	481127	2	Standard
	Ag	107	0.189	ug/L	0.003	1	62	3390	4	Standard
>	Tb	159		ug/L			1242145	1221274	0	Standard
	Pb	208	19.476	ug/L	0.322	1	218	1714466	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0752-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 20:44:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	95785	0	Standard
	Cl	37		ug/L			7031855	6466175	1	Standard
>	Sc	45		ug/L			700785	838845	2	Standard
	Cr	52	14.034	ug/L	0.242	1	17028	435964	0	Standard
	Cr	53	14.181	ug/L	0.229	1	213	47864	1	Standard
>	Ge	72		ug/L			49353	46189	0	KED
	Ni	60	12.434	ug/L	0.078	0	16	20951	0	KED
	Ni	62	12.429	ug/L	0.087	0	8	3401	1	KED
	Cu	63	33.218	ug/L	0.351	1	50	154879	0	KED
	Cu	65	32.905	ug/L	0.417	1	26	78585	1	KED
	Zn	66	62.074	ug/L	0.299	0	28	41717	0	KED
	Zn	67	61.297	ug/L	0.681	1	3	6697	1	KED
	As	75	5.235	ug/L	0.076	1	3	1795	2	KED
	Y	89		ug/L			329848	570141	3	Standard
	Kr	83		ug/L			67	113	11	Standard
>	In-1	115		ug/L			10660	9916	3	KED
	Cd	111	0.178	ug/L	0.019	10	4	62	6	KED
	Cd	114	0.194	ug/L	0.020	10	3	166	10	KED
>	In	115		ug/L			476658	490303	1	Standard
	Ag	107	0.148	ug/L	0.002	1	62	2716	2	Standard
>	Tb	159		ug/L			1242145	1214711	0	Standard
	Pb	208	22.330	ug/L	0.159	0	218	1955213	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0752-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 20:49:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	96614	0	Standard
	Cl	37		ug/L			7031855	6424024	2	Standard
>	Sc	45		ug/L			700785	832930	2	Standard
	Cr	52	12.152	ug/L	0.130	1	17028	377629	1	Standard
	Cr	53	12.251	ug/L	0.107	0	213	41102	1	Standard
>	Ge	72		ug/L			49353	45895	1	KED
	Ni	60	11.929	ug/L	0.204	1	16	19970	0	KED
	Ni	62	11.760	ug/L	0.073	0	8	3198	1	KED
	Cu	63	27.446	ug/L	0.206	0	50	127171	1	KED
	Cu	65	27.746	ug/L	0.462	1	26	65835	0	KED
	Zn	66	59.834	ug/L	1.392	2	28	39954	2	KED
	Zn	67	58.147	ug/L	0.727	1	3	6313	1	KED
	As	75	5.407	ug/L	0.081	1	3	1842	1	KED
	Y	89		ug/L			329848	558845	3	Standard
	Kr	83		ug/L			67	98	6	Standard
>	In-1	115		ug/L			10660	10005	2	KED
	Cd	111	0.164	ug/L	0.017	10	4	58	8	KED
	Cd	114	0.175	ug/L	0.018	10	3	151	8	KED
>	In	115		ug/L			476658	484425	0	Standard
	Ag	107	0.125	ug/L	0.005	4	62	2272	3	Standard
>	Tb	159		ug/L			1242145	1219626	2	Standard
	Pb	208	13.902	ug/L	0.237	1	218	1221944	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0752-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 20:53:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	98249	2	Standard
	Cl	37		ug/L			7031855	6484014	2	Standard
>	Sc	45		ug/L			700785	851651	0	Standard
	Cr	52	14.552	ug/L	0.121	0	17028	458341	1	Standard
	Cr	53	14.780	ug/L	0.182	1	213	50645	0	Standard
>	Ge	72		ug/L			49353	45942	1	KED
	Ni	60	15.191	ug/L	0.389	2	16	25449	1	KED
	Ni	62	15.313	ug/L	0.572	3	8	4165	1	KED
	Cu	63	39.989	ug/L	0.524	1	50	185430	0	KED
	Cu	65	39.537	ug/L	0.425	1	26	93899	0	KED
	Zn	66	86.668	ug/L	1.405	1	28	57926	2	KED
	Zn	67	83.181	ug/L	2.077	2	3	9037	2	KED
	As	75	7.717	ug/L	0.061	0	3	2630	1	KED
	Y	89		ug/L			329848	600251	1	Standard
	Kr	83		ug/L			67	102	18	Standard
>	In-1	115		ug/L			10660	9986	1	KED
	Cd	111	0.199	ug/L	0.020	10	4	70	9	KED
	Cd	114	0.165	ug/L	0.013	7	3	142	8	KED
>	In	115		ug/L			476658	473992	1	Standard
	Ag	107	0.156	ug/L	0.004	2	62	2758	0	Standard
>	Tb	159		ug/L			1242145	1204293	1	Standard
	Pb	208	17.900	ug/L	0.330	1	218	1553653	0	Standard

06

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0752-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 20:58:02

MB 5/2/23

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	97044	0	Standard
	Cl	37		ug/L			7031855	6411935	3	Standard
>	Sc	45		ug/L			700785	839198	2	Standard
	Cr	52	13.441	ug/L	0.432	3	17028	418471	0	Standard
	Cr	53	13.489	ug/L	0.346	2	213	45553	1	Standard
>	Ge	72		ug/L			49353	45817	0	KED
	Ni	60	12.962	ug/L	0.093	0	16	21664	1	KED
	Ni	62	12.663	ug/L	0.359	2	8	3437	2	KED
	Cu	63	32.728	ug/L	0.186	0	50	151375	0	KED
	Cu	65	32.986	ug/L	0.306	0	26	78142	1	KED
	Zn	66	66.855	ug/L	0.625	0	28	44565	0	KED
	Zn	67	65.426	ug/L	0.748	1	3	7090	1	KED
	As	75	8.200	ug/L	0.172	2	3	2787	1	KED
	Y	89		ug/L			329848	579237	3	Standard
	Kr	83		ug/L			67	107	14	Standard
>	In-1	115		ug/L			10660	9850	2	KED
	Cd	111	0.189	ug/L	0.035	18	4	66	15	KED
	Cd	114	0.168	ug/L	0.017	10	3	143	9	KED
>	In	115		ug/L			476658	469874	1	Standard
	Ag	107	0.144	ug/L	0.001	0	62	2537	0	Standard
>	Tb	159		ug/L			1242145	1208988	0	Standard
	Pb	208	15.886	ug/L	0.071	0	218	1384432	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 21:03:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	41936	1	Standard
	Cl	**37**		ug/L			7031855	6773602	2	Standard
⌈>	**Sc**	**45**		ug/L			700785	673000	1	Standard
|	**Cr**	**52**	**49.657**	ug/L	0.597	1	17028	1196436	1	Standard
⌊	**Cr**	**53**	**50.329**	ug/L	0.330	0	213	135795	1	Standard
⌈>	**Ge**	**72**		ug/L			49353	46381	0	KED
|	**Ni**	**60**	**51.188**	ug/L	0.680	1	16	86557	0	KED
|	**Ni**	**62**	**50.346**	ug/L	0.696	1	8	13812	1	KED
|	**Cu**	**63**	**51.178**	ug/L	0.746	1	50	239589	1	KED
|	**Cu**	**65**	**51.173**	ug/L	0.781	1	26	122697	0	KED
|	**Zn**	**66**	**51.152**	ug/L	0.153	0	28	34525	0	KED
|	**Zn**	**67**	**51.913**	ug/L	0.286	0	3	5696	0	KED
⌊	**As**	**75**	**50.853**	ug/L	0.490	0	3	17481	0	KED
	Y	**89**		ug/L			329848	314013	1	Standard
	Kr	**83**		ug/L			67	62	12	Standard
⌈>	**In-1**	**115**		ug/L			10660	10004	1	KED
|	**Cd**	**111**	**50.849**	ug/L	1.353	2	4	17055	0	KED
⌊	**Cd**	**114**	**51.129**	ug/L	0.962	1	3	43458	0	KED
⌈>	**In**	**115**		ug/L			476658	468319	2	Standard
⌊	**Ag**	**107**	**50.746**	ug/L	1.807	3	62	867878	0	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1195813	1	Standard
⌊	**Pb**	**208**	**54.508**	ug/L	1.282	2	218	4696678	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 21:10:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	41159	2	Standard
	Cl	**37**		ug/L			7031855	6738927	1	Standard
⎡>	**Sc**	**45**		ug/L			700785	681844	1	Standard
⎢	**Cr**	**52**	**-0.021**	ug/L	0.006	30	17028	16066	1	Standard
⎣	**Cr**	**53**	**-0.025**	ug/L	0.001	4	213	138	2	Standard
⎡>	**Ge**	**72**		ug/L			49353	47223	1	KED
⎢	**Ni**	**60**	**0.014**	ug/L	0.010	73	16	40	45	KED
⎢	**Ni**	**62**	**-0.010**	ug/L	0.008	75	8	5	43	KED
⎢	**Cu**	**63**	**0.001**	ug/L	0.001	57	50	53	5	KED
⎢	**Cu**	**65**	**-0.001**	ug/L	0.002	393	26	24	22	KED
⎢	**Zn**	**66**	**0.005**	ug/L	0.004	72	28	31	9	KED
⎢	**Zn**	**67**	**0.035**	ug/L	0.029	81	3	7	43	KED
⎣	**As**	**75**	**0.003**	ug/L	0.003	86	3	4	20	KED
	Y	**89**		ug/L			329848	311837	2	Standard
	Kr	**83**		ug/L			67	49	10	Standard
⎡>	**In-1**	**115**		ug/L			10660	10542	1	KED
⎢	**Cd**	**111**	**0.000**	ug/L	0.003	2680	4	4	26	KED
⎣	**Cd**	**114**	**0.003**	ug/L	0.004	152	3	5	68	KED
⎡>	**In**	**115**		ug/L			476658	475119	1	Standard
⎣	**Ag**	**107**	**0.001**	ug/L	0.000	88	62	71	10	Standard
⎡>	**Tb**	**159**		ug/L			1242145	1203274	0	Standard
⎣	**Pb**	**208**	**0.002**	ug/L	0.000	23	218	367	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 21:15:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	74680	1	Standard
	Cl	37		ug/L			7031855	6466187	3	Standard
⌈>	Sc	45		ug/L			700785	859316	2	Standard
|	Cr	52	15.081	ug/L	0.343	2	17028	478325	0	Standard
⌊	Cr	53	15.418	ug/L	0.131	0	213	53292	1	Standard
⌈>	Ge	72		ug/L			49353	45221	0	KED
|	Ni	60	14.143	ug/L	0.280	1	16	23326	1	KED
|	Ni	62	14.516	ug/L	0.603	4	8	3888	4	KED
|	Cu	63	42.056	ug/L	0.166	0	50	191975	0	KED
|	Cu	65	42.302	ug/L	0.566	1	26	98892	0	KED
|	Zn	66	71.565	ug/L	0.421	0	28	47085	0	KED
|	Zn	67	70.063	ug/L	1.743	2	3	7495	3	KED
⌊	As	75	8.072	ug/L	0.168	2	3	2708	2	KED
	Y	89		ug/L			329848	608496	2	Standard
	Kr	83		ug/L			67	109	7	Standard
⌈>	In-1	115		ug/L			10660	9747	1	KED
|	Cd	111	0.258	ug/L	0.013	5	4	87	5	KED
⌊	Cd	114	0.226	ug/L	0.020	8	3	189	9	KED
⌈>	In	115		ug/L			476658	470380	1	Standard
⌊	Ag	107	0.200	ug/L	0.004	1	62	3503	1	Standard
⌈>	Tb	159		ug/L			1242145	1212981	0	Standard
⌊	Pb	208	20.025	ug/L	0.147	0	218	1750867	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 21:19:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	78424	0	Standard
	Cl	37		ug/L			7031855	6414639	2	Standard
>	Sc	45		ug/L			700785	872180	1	Standard
	Cr	52	14.497	ug/L	0.232	1	17028	467610	0	Standard
	Cr	53	14.947	ug/L	0.174	1	213	52450	0	Standard
>	Ge	72		ug/L			49353	43263	5	KED
	Ni	60	15.273	ug/L	0.758	4	16	24054	1	KED
	Ni	62	14.903	ug/L	0.983	6	8	3809	1	KED
	Cu	63	41.142	ug/L	1.510	3	50	179416	2	KED
	Cu	65	41.740	ug/L	2.224	5	26	93171	1	KED
	Zn	66	72.755	ug/L	3.350	4	28	45713	1	KED
	Zn	67	71.452	ug/L	3.492	4	3	7298	1	KED
	As	75	7.317	ug/L	0.384	5	3	2344	1	KED
	Y	89		ug/L			329848	620086	3	Standard
	Kr	83		ug/L			67	109	9	Standard
>	In-1	115		ug/L			10660	9584	0	KED
	Cd	111	0.238	ug/L	0.007	2	4	80	2	KED
	Cd	114	0.228	ug/L	0.030	13	3	188	12	KED
>	In	115		ug/L			476658	475752	2	Standard
	Ag	107	0.189	ug/L	0.008	4	62	3354	5	Standard
>	Tb	159		ug/L			1242145	1202262	0	Standard
	Pb	208	23.229	ug/L	0.294	1	218	2013049	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 21:24:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	67261	0	Standard
	Cl	37		ug/L			7031855	6534963	2	Standard
⌈>	Sc	45		ug/L			700785	836145	1	Standard
|	Cr	52	14.402	ug/L	0.128	0	17028	445554	1	Standard
⌊	Cr	53	14.743	ug/L	0.024	0	213	49602	1	Standard
⌈>	Ge	72		ug/L			49353	45284	0	KED
|	Ni	60	16.871	ug/L	0.056	0	16	27865	0	KED
|	Ni	62	16.866	ug/L	0.437	2	8	4522	2	KED
|	Cu	63	34.593	ug/L	0.656	1	50	158131	1	KED
|	Cu	65	34.628	ug/L	0.258	0	26	81074	0	KED
|	Zn	66	72.144	ug/L	0.887	1	28	47531	0	KED
|	Zn	67	72.277	ug/L	1.046	1	3	7741	1	KED
⌊	As	75	6.349	ug/L	0.064	1	3	2133	1	KED
	Y	89		ug/L			329848	590463	2	Standard
	Kr	83		ug/L			67	102	15	Standard
⌈>	In-1	115		ug/L			10660	9925	1	KED
|	Cd	111	0.201	ug/L	0.012	5	4	70	5	KED
⌊	Cd	114	0.151	ug/L	0.006	3	3	129	3	KED
⌈>	In	115		ug/L			476658	462050	1	Standard
⌊	Ag	107	0.159	ug/L	0.006	3	62	2737	3	Standard
⌈>	Tb	159		ug/L			1242145	1208260	1	Standard
⌊	Pb	208	18.474	ug/L	0.309	1	218	1608787	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 21:28:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	65286	1	Standard
	Cl	37		ug/L			7031855	6400813	2	Standard
⌈>	Sc	45		ug/L			700785	751347	2	Standard
|	Cr	52	8.259	ug/L	0.209	2	17028	237281	0	Standard
⌊	Cr	53	8.261	ug/L	0.137	1	213	25068	1	Standard
⌈>	Ge	72		ug/L			49353	45542	0	KED
|	Ni	60	7.113	ug/L	0.115	1	16	11823	0	KED
|	Ni	62	7.177	ug/L	0.113	1	8	1939	1	KED
|	Cu	63	9.634	ug/L	0.164	1	50	44323	1	KED
|	Cu	65	9.693	ug/L	0.235	2	26	22839	1	KED
|	Zn	66	21.759	ug/L	0.332	1	28	14435	0	KED
|	Zn	67	21.437	ug/L	1.044	4	3	2311	4	KED
⌊	As	75	2.020	ug/L	0.052	2	3	685	1	KED
	Y	89		ug/L			329848	474871	2	Standard
	Kr	83		ug/L			67	78	21	Standard
⌈>	In-1	115		ug/L			10660	9783	1	KED
|	Cd	111	0.035	ug/L	0.015	41	4	15	32	KED
⌊	Cd	114	0.033	ug/L	0.020	60	3	30	53	KED
⌈>	In	115		ug/L			476658	482983	1	Standard
⌊	Ag	107	0.039	ug/L	0.002	6	62	757	6	Standard
⌈>	Tb	159		ug/L			1242145	1225904	1	Standard
⌊	Pb	208	3.262	ug/L	0.057	1	218	288391	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 21:32:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	75063	2	Standard
	Cl	37		ug/L			7031855	6392028	2	Standard
>	Sc	45		ug/L			700785	852159	2	Standard
	Cr	52	14.136	ug/L	0.076	0	17028	446113	2	Standard
	Cr	53	14.526	ug/L	0.327	2	213	49799	1	Standard
>	Ge	72		ug/L			49353	44813	1	KED
	Ni	60	13.727	ug/L	0.245	1	16	22438	1	KED
	Ni	62	13.634	ug/L	0.393	2	8	3620	3	KED
	Cu	63	38.459	ug/L	0.755	1	50	173949	0	KED
	Cu	65	38.212	ug/L	0.118	0	26	88533	1	KED
	Zn	66	66.485	ug/L	1.132	1	28	43343	0	KED
	Zn	67	65.490	ug/L	1.854	2	3	6940	1	KED
	As	75	8.287	ug/L	0.170	2	3	2754	1	KED
	Y	89		ug/L			329848	601650	1	Standard
	Kr	83		ug/L			67	113	11	Standard
>	In-1	115		ug/L			10660	9548	1	KED
	Cd	111	0.271	ug/L	0.039	14	4	90	13	KED
	Cd	114	0.280	ug/L	0.039	13	3	229	12	KED
>	In	115		ug/L			476658	472175	3	Standard
	Ag	107	0.196	ug/L	0.002	1	62	3449	4	Standard
>	Tb	159		ug/L			1242145	1188920	0	Standard
	Pb	208	19.979	ug/L	0.213	1	218	1712135	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 21:37:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	73029	0	Standard
	Cl	37		ug/L			7031855	6348923	3	Standard
>	Sc	45		ug/L			700785	833503	2	Standard
	Cr	52	14.798	ug/L	0.152	1	17028	455740	1	Standard
	Cr	53	14.804	ug/L	0.027	0	213	49651	2	Standard
>	Ge	72		ug/L			49353	44892	1	KED
	Ni	60	13.791	ug/L	0.160	1	16	22581	0	KED
	Ni	62	13.832	ug/L	0.370	2	8	3677	1	KED
	Cu	63	35.235	ug/L	0.213	0	50	159674	1	KED
	Cu	65	35.248	ug/L	0.495	1	26	81801	0	KED
	Zn	66	63.829	ug/L	0.826	1	28	41688	0	KED
	Zn	67	62.037	ug/L	0.636	1	3	6587	0	KED
	As	75	7.416	ug/L	0.163	2	3	2470	1	KED
	Y	89		ug/L			329848	592125	3	Standard
	Kr	83		ug/L			67	100	3	Standard
>	In-1	115		ug/L			10660	9586	3	KED
	Cd	111	0.281	ug/L	0.031	10	4	93	7	KED
	Cd	114	0.209	ug/L	0.001	0	3	173	3	KED
>	In	115		ug/L			476658	463320	2	Standard
	Ag	107	0.180	ug/L	0.007	4	62	3108	3	Standard
>	Tb	159		ug/L			1242145	1188516	0	Standard
	Pb	208	18.007	ug/L	0.367	2	218	1542687	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 21:41:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	70495	1	Standard
	Cl	37		ug/L			7031855	6359360	3	Standard
>	Sc	45		ug/L			700785	827471	1	Standard
	Cr	52	12.598	ug/L	0.257	2	17028	388177	1	Standard
	Cr	53	12.890	ug/L	0.135	1	213	42951	1	Standard
>	Ge	72		ug/L			49353	44830	0	KED
	Ni	60	12.719	ug/L	0.172	1	16	20801	1	KED
	Ni	62	12.750	ug/L	0.420	3	8	3386	3	KED
	Cu	63	29.836	ug/L	0.404	1	50	135026	1	KED
	Cu	65	29.679	ug/L	0.638	2	26	68791	1	KED
	Zn	66	56.320	ug/L	0.639	1	28	36738	0	KED
	Zn	67	55.352	ug/L	1.578	2	3	5870	3	KED
	As	75	6.145	ug/L	0.101	1	3	2044	1	KED
	Y	89		ug/L			329848	570479	1	Standard
	Kr	83		ug/L			67	125	14	Standard
>	In-1	115		ug/L			10660	9715	1	KED
	Cd	111	0.208	ug/L	0.037	17	4	71	17	KED
	Cd	114	0.173	ug/L	0.031	17	3	145	16	KED
>	In	115		ug/L			476658	469997	0	Standard
	Ag	107	0.154	ug/L	0.003	1	62	2697	1	Standard
>	Tb	159		ug/L			1242145	1186906	2	Standard
	Pb	208	14.549	ug/L	0.356	2	218	1244364	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-09
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 21:46:12

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	73713	1	Standard
	Cl	**37**		ug/L			7031855	6298048	3	Standard
⌈>	**Sc**	**45**		ug/L			700785	844054	7	Standard
|	**Cr**	**52**	**12.557**	ug/L	0.938	7	17028	393381	0	Standard
⌊	**Cr**	**53**	**12.902**	ug/L	0.932	7	213	43693	0	Standard
⌈>	**Ge**	**72**		ug/L			49353	44288	1	KED
|	**Ni**	**60**	**14.000**	ug/L	0.176	1	16	22615	1	KED
|	**Ni**	**62**	**14.068**	ug/L	0.248	1	8	3691	2	KED
|	**Cu**	**63**	**24.607**	ug/L	0.399	1	50	110014	0	KED
|	**Cu**	**65**	**24.839**	ug/L	0.262	1	26	56883	1	KED
|	**Zn**	**66**	**50.245**	ug/L	0.581	1	28	32382	0	KED
|	**Zn**	**67**	**50.594**	ug/L	1.240	2	3	5301	2	KED
⌊	**As**	**75**	**5.810**	ug/L	0.144	2	3	1909	1	KED
	Y	**89**		ug/L			329848	613727	4	Standard
	Kr	**83**		ug/L			67	123	5	Standard
⌈>	**In-1**	**115**		ug/L			10660	9599	0	KED
|	**Cd**	**111**	**0.140**	ug/L	0.018	12	4	48	11	KED
⌊	**Cd**	**114**	**0.136**	ug/L	0.025	18	3	113	18	KED
⌈>	**In**	**115**		ug/L			476658	440059	10	Standard
⌊	**Ag**	**107**	**0.121**	ug/L	0.012	10	62	1987	2	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1123461	8	Standard
⌊	**Pb**	**208**	**9.463**	ug/L	0.825	8	218	762770	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 21:50:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	73268	3	Standard
	Cl	37		ug/L			7031855	6322947	3	Standard
>	Sc	45		ug/L			700785	832933	0	Standard
	Cr	52	13.501	ug/L	0.250	1	17028	417358	2	Standard
	Cr	53	13.914	ug/L	0.099	0	213	46650	1	Standard
>	Ge	72		ug/L			49353	44016	0	KED
	Ni	60	12.902	ug/L	0.179	1	16	20716	1	KED
	Ni	62	12.610	ug/L	0.286	2	8	3288	2	KED
	Cu	63	33.974	ug/L	0.440	1	50	150958	1	KED
	Cu	65	34.194	ug/L	0.564	1	26	77816	1	KED
	Zn	66	63.259	ug/L	1.020	1	28	40513	1	KED
	Zn	67	62.902	ug/L	1.679	2	3	6549	2	KED
	As	75	7.726	ug/L	0.217	2	3	2523	2	KED
	Y	89		ug/L			329848	554204	2	Standard
	Kr	83		ug/L			67	95	23	Standard
>	In-1	115		ug/L			10660	9606	0	KED
	Cd	111	0.257	ug/L	0.045	17	4	86	16	KED
	Cd	114	0.280	ug/L	0.033	11	3	231	11	KED
>	In	115		ug/L			476658	466094	3	Standard
	Ag	107	0.211	ug/L	0.008	3	62	3659	4	Standard
>	Tb	159		ug/L			1242145	1191577	0	Standard
	Pb	208	18.296	ug/L	0.256	1	218	1571495	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 21:55:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	81519	0	Standard
	Cl	37		ug/L			7031855	6326361	3	Standard
>	Sc	45		ug/L			700785	836405	2	Standard
	Cr	52	13.579	ug/L	0.323	2	17028	421204	0	Standard
	Cr	53	13.895	ug/L	0.247	1	213	46769	1	Standard
>	Ge	72		ug/L			49353	44685	0	KED
	Ni	60	13.441	ug/L	0.130	0	16	21908	1	KED
	Ni	62	13.556	ug/L	0.473	3	8	3588	3	KED
	Cu	63	32.035	ug/L	0.536	1	50	144509	1	KED
	Cu	65	32.310	ug/L	0.170	0	26	74647	0	KED
	Zn	66	62.596	ug/L	0.673	1	28	40698	0	KED
	Zn	67	62.383	ug/L	1.566	2	3	6593	2	KED
	As	75	6.457	ug/L	0.170	2	3	2141	2	KED
	Y	89		ug/L			329848	583268	3	Standard
	Kr	83		ug/L			67	97	20	Standard
>	In-1	115		ug/L			10660	9574	0	KED
	Cd	111	0.223	ug/L	0.044	19	4	75	17	KED
	Cd	114	0.205	ug/L	0.025	11	3	169	12	KED
>	In	115		ug/L			476658	466152	2	Standard
	Ag	107	0.151	ug/L	0.002	1	62	2641	3	Standard
>	Tb	159		ug/L			1242145	1176959	0	Standard
	Pb	208	15.721	ug/L	0.003	0	218	1333795	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 22:00:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	42084	2	Standard
	Cl	37		ug/L			7031855	6710553	2	Standard
⌈>	Sc	45		ug/L			700785	652072	1	Standard
|	Cr	52	50.587	ug/L	0.221	0	17028	1180656	1	Standard
⌊	Cr	53	51.179	ug/L	0.622	1	213	133794	1	Standard
⌈>	Ge	72		ug/L			49353	41913	10	KED
|	Ni	60	55.234	ug/L	5.595	10	16	83803	1	KED
|	Ni	62	53.906	ug/L	5.127	9	8	13274	1	KED
|	Cu	63	55.128	ug/L	5.646	10	50	231547	1	KED
|	Cu	65	55.475	ug/L	6.760	12	26	119173	1	KED
|	Zn	66	54.054	ug/L	5.892	10	28	32718	1	KED
|	Zn	67	54.746	ug/L	3.459	6	3	5404	4	KED
⌊	As	75	54.166	ug/L	5.409	9	3	16708	1	KED
	Y	89		ug/L			329848	311046	1	Standard
	Kr	83		ug/L			67	69	14	Standard
⌈>	In-1	115		ug/L			10660	9761	0	KED
|	Cd	111	51.266	ug/L	0.805	1	4	16781	1	KED
⌊	Cd	114	51.379	ug/L	1.364	2	3	42613	2	KED
⌈>	In	115		ug/L			476658	458937	1	Standard
⌊	Ag	107	50.789	ug/L	0.798	1	62	851570	0	Standard
⌈>	Tb	159		ug/L			1242145	1191357	0	Standard
⌊	Pb	208	54.506	ug/L	0.731	1	218	4680501	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 22:07:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	41351	2	Standard
	Cl	**37**		ug/L			7031855	6652998	3	Standard
⌈>	**Sc**	**45**		ug/L			700785	662881	2	Standard
|	**Cr**	**52**	**-0.013**	ug/L	0.024	183	17028	15799	1	Standard
⌊	**Cr**	**53**	**-0.028**	ug/L	0.004	13	213	126	8	Standard
⌈>	**Ge**	**72**		ug/L			49353	45783	0	KED
|	**Ni**	**60**	**0.013**	ug/L	0.010	75	16	37	43	KED
|	**Ni**	**62**	**-0.002**	ug/L	0.004	163	8	6	15	KED
|	**Cu**	**63**	**0.001**	ug/L	0.002	126	50	53	16	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.004	224	26	20	41	KED
|	**Zn**	**66**	**0.023**	ug/L	0.005	23	28	41	7	KED
|	**Zn**	**67**	**0.026**	ug/L	0.045	170	3	6	75	KED
⌊	**As**	**75**	**0.003**	ug/L	0.002	66	3	4	15	KED
	Y	**89**		ug/L			329848	311690	1	Standard
	Kr	**83**		ug/L			67	55	14	Standard
⌈>	**In-1**	**115**		ug/L			10660	10139	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.006	170	4	5	39	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.001	183	3	2	46	KED
⌈>	**In**	**115**		ug/L			476658	471194	0	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.003	108	62	112	48	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1199932	0	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.004	132	218	499	75	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 22:12:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				40446	1	Standard
	Cl	**37**		ug/L				6595246	2	Standard
⎡>	**Sc**	**45**		ug/L				655530	0	Standard
⎢	**Cr**	**52**		ug/L				15680	0	Standard
⎣	**Cr**	**53**		ug/L				119	9	Standard
⎡>	**Ge**	**72**		ug/L				45192	1	KED
⎢	**Ni**	**60**		ug/L				27	25	KED
⎢	**Ni**	**62**		ug/L				3	50	KED
⎢	**Cu**	**63**		ug/L				59	16	KED
⎢	**Cu**	**65**		ug/L				19	56	KED
⎢	**Zn**	**66**		ug/L				38	12	KED
⎢	**Zn**	**67**		ug/L				8	44	KED
⎣	**As**	**75**		ug/L				3	54	KED
	Y	**89**		ug/L				311569	2	Standard
	Kr	**83**		ug/L				69	11	Standard
⎡>	**In-1**	**115**		ug/L				9412	1	KED
⎢	**Cd**	**111**		ug/L				3	41	KED
⎣	**Cd**	**114**		ug/L				4	93	KED
⎡>	**In**	**115**		ug/L				462006	2	Standard
⎣	**Ag**	**107**		ug/L				43	18	Standard
⎡>	**Tb**	**159**		ug/L				1183725	0	Standard
⎣	**Pb**	**208**		ug/L				262	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 22:16:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	41690	1	Standard
	Cl	**37**		ug/L			6595246	6797351	2	Standard
⌈>	**Sc**	**45**		ug/L			655530	662554	1	Standard
|	**Cr**	**52**	**49.982**	ug/L	0.369	0	15680	1185132	0	Standard
⌊	**Cr**	**53**	**50.449**	ug/L	0.608	1	119	133921	1	Standard
⌈>	**Ge**	**72**		ug/L			45192	45786	1	KED
|	**Ni**	**60**	**50.494**	ug/L	0.730	1	27	84297	1	KED
|	**Ni**	**62**	**50.538**	ug/L	0.414	0	3	13683	1	KED
|	**Cu**	**63**	**50.964**	ug/L	0.895	1	59	235509	0	KED
|	**Cu**	**65**	**50.928**	ug/L	0.728	1	19	120529	0	KED
|	**Zn**	**66**	**50.265**	ug/L	1.656	3	38	33493	1	KED
|	**Zn**	**67**	**50.969**	ug/L	0.894	1	8	5525	0	KED
⌊	**As**	**75**	**49.914**	ug/L	1.143	2	3	16934	0	KED
	Y	**89**		ug/L			311569	312652	2	Standard
	Kr	**83**		ug/L			69	72	17	Standard
⌈>	**In-1**	**115**		ug/L			9412	9779	0	KED
|	**Cd**	**111**	**50.837**	ug/L	0.506	0	3	16672	1	KED
⌊	**Cd**	**114**	**51.103**	ug/L	0.777	1	4	42467	1	KED
⌈>	**In**	**115**		ug/L			462006	460019	1	Standard
⌊	**Ag**	**107**	**50.522**	ug/L	1.221	2	43	849051	1	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1198528	0	Standard
⌊	**Pb**	**208**	**53.620**	ug/L	0.167	0	262	4632082	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 22:23:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	40040	0	Standard
	Cl	**37**		ug/L			6595246	6760315	2	Standard
⌈>	**Sc**	**45**		ug/L			655530	671678	0	Standard
|	**Cr**	**52**	**-0.011**	ug/L	0.015	134	15680	15796	2	Standard
⌊	**Cr**	**53**	**0.004**	ug/L	0.001	19	119	133	0	Standard
⌈>	**Ge**	**72**		ug/L			45192	46112	0	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.001	26	27	24	4	KED
|	**Ni**	**62**	**0.014**	ug/L	0.007	52	3	7	25	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.002	76	59	48	17	KED
|	**Cu**	**65**	**0.004**	ug/L	0.001	20	19	29	7	KED
|	**Zn**	**66**	**-0.001**	ug/L	0.009	755	38	38	15	KED
|	**Zn**	**67**	**-0.042**	ug/L	0.010	24	8	4	24	KED
⌊	**As**	**75**	**-0.000**	ug/L	0.006	2260	3	3	54	KED
	Y	**89**		ug/L			311569	317214	2	Standard
	Kr	**83**		ug/L			69	59	19	Standard
⌈>	**In-1**	**115**		ug/L			9412	10206	0	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.006	160	3	2	78	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.001	110	4	4	25	KED
⌈>	**In**	**115**		ug/L			462006	471033	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	65	43	66	22	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1205492	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	49	262	299	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 22:28:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			40446	71111	0	Standard
Cl	37		ug/L			6595246	6480026	3	Standard
> Sc	45		ug/L			655530	833559	1	Standard
Cr	52	13.216	ug/L	0.161	1	15680	408989	2	Standard
Cr	53	13.385	ug/L	0.196	1	119	44820	2	Standard
> Ge	72		ug/L			45192	44891	0	KED
Ni	60	13.402	ug/L	0.117	0	27	21959	0	KED
Ni	62	13.317	ug/L	0.221	1	3	3538	2	KED
Cu	63	30.005	ug/L	0.559	1	59	135981	1	KED
Cu	65	29.876	ug/L	0.165	0	19	69339	0	KED
Zn	66	59.314	ug/L	1.306	2	38	38756	2	KED
Zn	67	58.222	ug/L	0.941	1	8	6188	1	KED
As	75	6.697	ug/L	0.088	1	3	2231	0	KED
Y	89		ug/L			311569	573378	2	Standard
Kr	83		ug/L			69	99	23	Standard
> In-1	115		ug/L			9412	9653	1	KED
Cd	111	0.175	ug/L	0.018	10	3	60	8	KED
Cd	114	0.174	ug/L	0.018	10	4	148	11	KED
> In	115		ug/L			462006	473716	3	Standard
Ag	107	0.133	ug/L	0.006	4	43	2351	3	Standard
> Tb	159		ug/L			1183725	1198926	2	Standard
Pb	208	13.341	ug/L	0.205	1	262	1152837	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 22:32:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			40446	64625	1	Standard
Cl	37		ug/L			6595246	6378814	3	Standard
Sc	45		ug/L			655530	835235	1	Standard
Cr	52	13.034	ug/L	0.124	0	15680	404443	2	Standard
Cr	53	12.992	ug/L	0.111	0	119	43587	0	Standard
Ge	72		ug/L			45192	44873	1	KED
Ni	60	12.941	ug/L	0.256	1	27	21191	0	KED
Ni	62	13.076	ug/L	0.252	1	3	3473	3	KED
Cu	63	29.892	ug/L	0.504	1	59	135415	1	KED
Cu	65	30.400	ug/L	0.623	2	19	70515	0	KED
Zn	66	57.261	ug/L	0.491	0	38	37398	0	KED
Zn	67	56.155	ug/L	1.413	2	8	5965	1	KED
As	75	6.112	ug/L	0.101	1	3	2035	1	KED
Y	89		ug/L			311569	579292	1	Standard
Kr	83		ug/L			69	90	31	Standard
In-1	115		ug/L			9412	9689	0	KED
Cd	111	0.186	ug/L	0.014	7	3	64	7	KED
Cd	114	0.195	ug/L	0.006	3	4	165	3	KED
In	115		ug/L			462006	472566	1	Standard
Ag	107	0.149	ug/L	0.006	4	43	2622	3	Standard
Tb	159		ug/L			1183725	1197318	3	Standard
Pb	208	13.943	ug/L	0.461	3	262	1202612	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 22:37:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			40446	65830	1	Standard
Cl	37		ug/L			6595246	6346598	2	Standard
Sc	45		ug/L			655530	831459	1	Standard
Cr	52	12.617	ug/L	0.169	1	15680	390275	0	Standard
Cr	53	12.893	ug/L	0.094	0	119	43063	1	Standard
Ge	72		ug/L			45192	45283	0	KED
Ni	60	12.272	ug/L	0.229	1	27	20286	1	KED
Ni	62	12.123	ug/L	0.205	1	3	3249	1	KED
Cu	63	30.421	ug/L	0.343	1	59	139076	0	KED
Cu	65	30.308	ug/L	0.664	2	19	70952	1	KED
Zn	66	57.397	ug/L	0.417	0	38	37832	0	KED
Zn	67	56.440	ug/L	0.224	0	8	6051	0	KED
As	75	6.603	ug/L	0.119	1	3	2219	1	KED
Y	89		ug/L			311569	557377	1	Standard
Kr	83		ug/L			69	104	35	Standard
In-1	115		ug/L			9412	9857	0	KED
Cd	111	0.211	ug/L	0.032	15	3	73	14	KED
Cd	114	0.168	ug/L	0.026	15	4	145	15	KED
In	115		ug/L			462006	466208	2	Standard
Ag	107	0.170	ug/L	0.008	4	43	2942	5	Standard
Tb	159		ug/L			1183725	1192154	1	Standard
Pb	208	16.027	ug/L	0.308	1	262	1377159	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-15
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 22:41:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	76971	2	Standard
	Cl	37		ug/L			6595246	6422495	3	Standard
>	Sc	45		ug/L			655530	766659	3	Standard
	Cr	52	14.026	ug/L	0.368	2	15680	397925	2	Standard
	Cr	53	14.465	ug/L	0.350	2	119	44514	1	Standard
>	Ge	72		ug/L			45192	40364	18	KED
	Ni	60	18.556	ug/L	4.142	22	27	26556	0	KED
	Ni	62	18.314	ug/L	3.740	20	3	4260	1	KED
	Cu	63	34.049	ug/L	7.719	22	59	134772	1	KED
	Cu	65	33.913	ug/L	7.137	21	19	68897	2	KED
	Zn	66	144.543	ug/L	29.669	20	38	82672	1	KED
	Zn	67	137.025	ug/L	28.064	20	8	12746	1	KED
	As	75	5.274	ug/L	1.240	23	3	1533	1	KED
	Y	89		ug/L			311569	470144	1	Standard
	Kr	83		ug/L			69	88	6	Standard
>	In-1	115		ug/L			9412	9619	1	KED
	Cd	111	0.210	ug/L	0.021	9	3	71	10	KED
	Cd	114	0.197	ug/L	0.023	11	4	165	10	KED
>	In	115		ug/L			462006	472151	1	Standard
	Ag	107	0.084	ug/L	0.001	0	43	1498	1	Standard
>	Tb	159		ug/L			1183725	1192217	1	Standard
	Pb	208	32.232	ug/L	0.230	0	262	2769820	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-16
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 22:45:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	69146	1	Standard
	Cl	37		ug/L			6595246	6318029	3	Standard
>	Sc	45		ug/L			655530	809568	0	Standard
	Cr	52	13.977	ug/L	0.194	1	15680	418941	1	Standard
	Cr	53	14.197	ug/L	0.160	1	119	46159	1	Standard
>	Ge	72		ug/L			45192	43911	0	KED
	Ni	60	13.266	ug/L	0.172	1	27	21263	1	KED
	Ni	62	13.557	ug/L	0.165	1	3	3522	0	KED
	Cu	63	31.255	ug/L	0.127	0	59	138562	0	KED
	Cu	65	31.375	ug/L	0.269	0	19	71229	1	KED
	Zn	66	62.165	ug/L	0.311	0	38	39732	1	KED
	Zn	67	60.848	ug/L	1.905	3	8	6325	3	KED
	As	75	6.577	ug/L	0.096	1	3	2143	1	KED
	Y	89		ug/L			311569	574461	1	Standard
	Kr	83		ug/L			69	97	4	Standard
>	In-1	115		ug/L			9412	9618	0	KED
	Cd	111	0.192	ug/L	0.011	5	3	65	5	KED
	Cd	114	0.191	ug/L	0.010	4	4	161	4	KED
>	In	115		ug/L			462006	475745	1	Standard
	Ag	107	0.141	ug/L	0.002	1	43	2489	2	Standard
>	Tb	159		ug/L			1183725	1186851	2	Standard
	Pb	208	16.100	ug/L	0.308	1	262	1377092	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-17
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 22:50:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	72641	1	Standard
	Cl	37		ug/L			6595246	6354576	3	Standard
>	Sc	45		ug/L			655530	790000	1	Standard
	Cr	52	11.836	ug/L	0.137	1	15680	349109	2	Standard
	Cr	53	11.960	ug/L	0.081	0	119	37972	2	Standard
>	Ge	72		ug/L			45192	44341	0	KED
	Ni	60	10.992	ug/L	0.035	0	27	17794	0	KED
	Ni	62	10.608	ug/L	0.235	2	3	2784	1	KED
	Cu	63	30.316	ug/L	0.677	2	59	135708	1	KED
	Cu	65	30.052	ug/L	0.491	1	19	68890	1	KED
	Zn	66	67.172	ug/L	1.505	2	38	43345	1	KED
	Zn	67	64.970	ug/L	1.301	2	8	6820	2	KED
	As	75	9.137	ug/L	0.016	0	3	3005	0	KED
	Y	89		ug/L			311569	536244	1	Standard
	Kr	83		ug/L			69	92	10	Standard
>	In-1	115		ug/L			9412	9446	0	KED
	Cd	111	0.136	ug/L	0.018	12	3	46	12	KED
	Cd	114	0.158	ug/L	0.010	6	4	131	5	KED
>	In	115		ug/L			462006	462731	2	Standard
	Ag	107	0.132	ug/L	0.003	2	43	2282	3	Standard
>	Tb	159		ug/L			1183725	1196486	1	Standard
	Pb	208	14.930	ug/L	0.256	1	262	1287605	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-18
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 22:54:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	62268	0	Standard
	Cl	37		ug/L			6595246	6441839	4	Standard
>	Sc	45		ug/L			655530	742967	8	Standard
	Cr	52	17.360	ug/L	1.375	7	15680	471134	1	Standard
	Cr	53	17.731	ug/L	1.308	7	119	52649	1	Standard
>	Ge	72		ug/L			45192	44154	0	KED
	Ni	60	22.195	ug/L	0.451	2	27	35749	1	KED
	Ni	62	22.390	ug/L	0.492	2	3	5848	2	KED
	Cu	63	35.120	ug/L	0.199	0	59	156551	0	KED
	Cu	65	34.932	ug/L	0.572	1	19	79736	1	KED
	Zn	66	90.432	ug/L	1.135	1	38	58097	0	KED
	Zn	67	88.339	ug/L	1.659	1	8	9230	2	KED
	As	75	7.013	ug/L	0.122	1	3	2297	1	KED
	Y	89		ug/L			311569	486476	9	Standard
	Kr	83		ug/L			69	94	11	Standard
>	In-1	115		ug/L			9412	9561	1	KED
	Cd	111	0.093	ug/L	0.015	16	3	33	14	KED
	Cd	114	0.088	ug/L	0.012	13	4	76	11	KED
>	In	115		ug/L			462006	440271	11	Standard
	Ag	107	0.073	ug/L	0.012	15	43	1195	6	Standard
>	Tb	159		ug/L			1183725	1092292	10	Standard
	Pb	208	17.108	ug/L	1.891	11	262	1336358	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0099-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, May 02, 2023 22:59:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	166461	1	Standard
	Cl	37		ug/L			6595246	6224844	3	Standard
>	Sc	45		ug/L			655530	657867	1	Standard
	Cr	52	7.075	ug/L	0.129	1	15680	180065	1	Standard
	Cr	53	7.082	ug/L	0.033	0	119	18770	1	Standard
>	Ge	72		ug/L			45192	41650	1	KED
	Ni	60	4.441	ug/L	0.033	0	27	6769	2	KED
	Ni	62	4.335	ug/L	0.290	6	3	1070	6	KED
	Cu	63	0.584	ug/L	0.014	2	59	2510	1	KED
	Cu	65	0.594	ug/L	0.026	4	19	1295	3	KED
	Zn	66	18.911	ug/L	0.375	1	38	11488	1	KED
	Zn	67	18.275	ug/L	0.203	1	8	1807	1	KED
	As	75	0.098	ug/L	0.013	13	3	33	11	KED
	Y	89		ug/L			311569	307425	2	Standard
	Kr	83		ug/L			69	46	19	Standard
>	In-1	115		ug/L			9412	8971	2	KED
	Cd	111	0.082	ug/L	0.018	21	3	27	20	KED
	Cd	114	0.086	ug/L	0.017	20	4	70	17	KED
>	In	115		ug/L			462006	470907	1	Standard
	Ag	107	0.004	ug/L	0.001	25	43	107	14	Standard
>	Tb	159		ug/L			1183725	1186788	1	Standard
	Pb	208	0.041	ug/L	0.002	4	262	3788	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0072-01
Sample Dil Factor: 100
Comments:
Sample Date/Time: Tuesday, May 02, 2023 23:03:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	85571	0	Standard
	Cl	37		ug/L			6595246	6497742	3	Standard
⌈>	Sc	45		ug/L			655530	657247	2	Standard
|	Cr	52	1.383	ug/L	0.032	2	15680	47817	0	Standard
⌊	Cr	53	1.391	ug/L	0.016	1	119	3779	2	Standard
⌈>	Ge	72		ug/L			45192	43732	0	KED
|	Ni	60	0.135	ug/L	0.015	10	27	241	9	KED
|	Ni	62	0.209	ug/L	0.055	26	3	57	24	KED
|	Cu	63	1.165	ug/L	0.060	5	59	5197	4	KED
|	Cu	65	1.170	ug/L	0.013	1	19	2663	1	KED
|	Zn	66	73.558	ug/L	1.216	1	38	46811	0	KED
|	Zn	67	69.874	ug/L	0.689	0	8	7232	0	KED
⌊	As	75	0.002	ug/L	0.003	162	3	4	24	KED
	Y	89		ug/L			311569	311554	0	Standard
	Kr	83		ug/L			69	60	24	Standard
⌈>	In-1	115		ug/L			9412	9503	0	KED
|	Cd	111	0.221	ug/L	0.008	3	3	73	3	KED
⌊	Cd	114	0.205	ug/L	0.016	7	4	170	7	KED
⌈>	In	115		ug/L			462006	483866	1	Standard
⌊	Ag	107	0.000	ug/L	0.001	333	43	48	19	Standard
⌈>	Tb	159		ug/L			1183725	1208072	0	Standard
⌊	Pb	208	0.023	ug/L	0.000	1	262	2274	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 23:07:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	40321	3	Standard
	Cl	**37**		ug/L			6595246	6564707	2	Standard
⎡>	**Sc**	**45**		ug/L			655530	642187	1	Standard
⎢	**Cr**	**52**	**-0.020**	ug/L	0.010	50	15680	14897	0	Standard
⎣	**Cr**	**53**	**-0.011**	ug/L	0.003	28	119	87	9	Standard
⎡>	**Ge**	**72**		ug/L			45192	42526	0	KED
⎢	**Ni**	**60**	**-0.002**	ug/L	0.002	98	27	22	14	KED
⎢	**Ni**	**62**	**0.016**	ug/L	0.027	169	3	7	90	KED
⎢	**Cu**	**63**	**0.001**	ug/L	0.005	387	59	60	34	KED
⎢	**Cu**	**65**	**0.009**	ug/L	0.006	61	19	39	32	KED
⎢	**Zn**	**66**	**0.039**	ug/L	0.015	39	38	60	16	KED
⎢	**Zn**	**67**	**0.069**	ug/L	0.034	49	8	15	21	KED
⎣	**As**	**75**	**-0.003**	ug/L	0.004	120	3	2	52	KED
	Y	**89**		ug/L			311569	310586	2	Standard
	Kr	**83**		ug/L			69	54	17	Standard
⎡>	**In-1**	**115**		ug/L			9412	9447	0	KED
⎢	**Cd**	**111**	**0.003**	ug/L	0.003	113	3	4	24	KED
⎣	**Cd**	**114**	**-0.002**	ug/L	0.004	163	4	3	96	KED
⎡>	**In**	**115**		ug/L			462006	483249	1	Standard
⎣	**Ag**	**107**	**-0.001**	ug/L	0.001	40	43	23	39	Standard
⎡>	**Tb**	**159**		ug/L			1183725	1192899	0	Standard
⎣	**Pb**	**208**	**0.002**	ug/L	0.000	19	262	443	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 23:12:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	40304	2	Standard
	Cl	**37**		ug/L			6595246	6549890	4	Standard
⌈>	**Sc**	**45**		ug/L			655530	640044	1	Standard
|	**Cr**	**52**	**50.066**	ug/L	0.602	1	15680	1146718	1	Standard
⌊	**Cr**	**53**	**50.852**	ug/L	0.122	0	119	130411	1	Standard
⌈>	**Ge**	**72**		ug/L			45192	42904	2	KED
|	**Ni**	**60**	**50.515**	ug/L	0.895	1	27	79011	0	KED
|	**Ni**	**62**	**51.389**	ug/L	1.385	2	3	13033	0	KED
|	**Cu**	**63**	**51.835**	ug/L	1.423	2	59	224410	0	KED
|	**Cu**	**65**	**51.695**	ug/L	0.677	1	19	114634	0	KED
|	**Zn**	**66**	**51.341**	ug/L	1.695	3	38	32052	1	KED
|	**Zn**	**67**	**51.518**	ug/L	1.531	2	8	5232	2	KED
⌊	**As**	**75**	**50.164**	ug/L	1.071	2	3	15947	0	KED
	Y	**89**		ug/L			311569	308293	2	Standard
	Kr	**83**		ug/L			69	67	12	Standard
⌈>	**In-1**	**115**		ug/L			9412	9503	0	KED
|	**Cd**	**111**	**50.816**	ug/L	0.723	1	3	16194	0	KED
⌊	**Cd**	**114**	**50.673**	ug/L	0.744	1	4	40921	0	KED
⌈>	**In**	**115**		ug/L			462006	455164	2	Standard
⌊	**Ag**	**107**	**49.943**	ug/L	1.687	3	43	830255	1	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1172495	0	Standard
⌊	**Pb**	**208**	**55.443**	ug/L	0.234	0	262	4685507	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 23:19:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	39370	1	Standard
	Cl	**37**		ug/L			6595246	6627352	2	Standard
⌈>	**Sc**	**45**		ug/L			655530	638303	2	Standard
|	**Cr**	**52**	**-0.031**	ug/L	0.011	35	15680	14567	1	Standard
⌊	**Cr**	**53**	**-0.007**	ug/L	0.006	94	119	98	16	Standard
⌈>	**Ge**	**72**		ug/L			45192	43602	0	KED
|	**Ni**	**60**	**0.000**	ug/L	0.004	1693	27	27	21	KED
|	**Ni**	**62**	**-0.009**	ug/L	0.004	45	3	1	86	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.001	60	59	46	13	KED
|	**Cu**	**65**	**0.006**	ug/L	0.001	22	19	31	9	KED
|	**Zn**	**66**	**-0.002**	ug/L	0.011	581	38	36	18	KED
|	**Zn**	**67**	**-0.003**	ug/L	0.028	901	8	8	35	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.002	209	3	3	22	KED
	Y	**89**		ug/L			311569	303774	2	Standard
	Kr	**83**		ug/L			69	58	19	Standard
⌈>	**In-1**	**115**		ug/L			9412	9752	3	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.005	142	3	2	57	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.001	103	4	4	22	KED
⌈>	**In**	**115**		ug/L			462006	463900	3	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	55	43	66	17	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1203302	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	38	262	295	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0593-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 02, 2023 23:23:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	57222	1	Standard
	Cl	37		ug/L			6595246	6073907	3	Standard
⌈>	Sc	45		ug/L			655530	613955	1	Standard
|	Cr	52	3.448	ug/L	0.036	1	15680	89439	1	Standard
⌊	Cr	53	3.540	ug/L	0.012	0	119	8812	1	Standard
⌈>	Ge	72		ug/L			45192	36816	1	KED
|	Ni	60	0.535	ug/L	0.016	2	27	740	1	KED
|	Ni	62	0.553	ug/L	0.105	18	3	123	20	KED
|	Cu	63	5.346	ug/L	0.137	2	59	19906	0	KED
|	Cu	65	5.252	ug/L	0.105	1	19	10007	0	KED
|	Zn	66	2.751	ug/L	0.029	1	38	1504	2	KED
|	Zn	67	2.607	ug/L	0.275	10	8	234	10	KED
⌊	As	75	0.051	ug/L	0.009	18	3	16	14	KED
	Y	89		ug/L			311569	300485	2	Standard
	Kr	83		ug/L			69	55	7	Standard
⌈>	In-1	115		ug/L			9412	8356	1	KED
|	Cd	111	0.004	ug/L	0.004	111	3	4	26	KED
⌊	Cd	114	0.008	ug/L	0.004	48	4	9	26	KED
⌈>	In	115		ug/L			462006	444748	3	Standard
⌊	Ag	107	0.000	ug/L	0.000	365	43	43	11	Standard
⌈>	Tb	159		ug/L			1183725	1137255	1	Standard
⌊	Pb	208	0.011	ug/L	0.000	1	262	1117	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0593-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 02, 2023 23:28:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	53522	2	Standard
	Cl	37		ug/L			6595246	5971888	3	Standard
>	Sc	45		ug/L			655530	595598	2	Standard
	Cr	52	5.176	ug/L	0.073	1	15680	123102	2	Standard
	Cr	53	5.510	ug/L	0.088	1	119	13243	0	Standard
>	Ge	72		ug/L			45192	35741	0	KED
	Ni	60	0.371	ug/L	0.004	1	27	505	0	KED
	Ni	62	0.376	ug/L	0.076	20	3	82	19	KED
	Cu	63	4.428	ug/L	0.030	0	59	16018	0	KED
	Cu	65	4.505	ug/L	0.039	0	19	8337	1	KED
	Zn	66	3.235	ug/L	0.102	3	38	1711	2	KED
	Zn	67	3.073	ug/L	0.243	7	8	266	7	KED
	As	75	0.044	ug/L	0.004	10	3	14	8	KED
	Y	89		ug/L			311569	291669	3	Standard
	Kr	83		ug/L			69	53	20	Standard
>	In-1	115		ug/L			9412	8168	1	KED
	Cd	111	0.004	ug/L	0.005	135	3	4	35	KED
	Cd	114	0.007	ug/L	0.005	74	4	9	42	KED
>	In	115		ug/L			462006	433631	1	Standard
	Ag	107	-0.001	ug/L	0.001	107	43	32	26	Standard
>	Tb	159		ug/L			1183725	1107810	0	Standard
	Pb	208	0.012	ug/L	0.000	3	262	1203	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0593-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 02, 2023 23:33:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	51632	3	Standard
	Cl	37		ug/L			6595246	5945717	4	Standard
>	Sc	45		ug/L			655530	601623	2	Standard
	Cr	52	18.674	ug/L	0.705	3	15680	410821	0	Standard
	Cr	53	19.117	ug/L	0.083	0	119	46149	2	Standard
>	Ge	72		ug/L			45192	34963	1	KED
	Ni	60	0.469	ug/L	0.007	1	27	619	1	KED
	Ni	62	0.431	ug/L	0.031	7	3	92	6	KED
	Cu	63	4.349	ug/L	0.048	1	59	15388	0	KED
	Cu	65	4.299	ug/L	0.033	0	19	7783	0	KED
	Zn	66	4.496	ug/L	0.058	1	38	2315	2	KED
	Zn	67	4.317	ug/L	0.255	5	8	363	6	KED
	As	75	0.060	ug/L	0.012	20	3	18	16	KED
	Y	89		ug/L			311569	295566	3	Standard
	Kr	83		ug/L			69	57	19	Standard
>	In-1	115		ug/L			9412	8000	0	KED
	Cd	111	0.023	ug/L	0.011	48	3	9	31	KED
	Cd	114	0.018	ug/L	0.003	17	4	16	12	KED
>	In	115		ug/L			462006	430523	2	Standard
	Ag	107	-0.000	ug/L	0.001	165	43	34	34	Standard
>	Tb	159		ug/L			1183725	1122216	1	Standard
	Pb	208	0.025	ug/L	0.001	4	262	2238	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0593-04
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 02, 2023 23:38:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	51159	2	Standard
	Cl	37		ug/L			6595246	5931622	4	Standard
>	Sc	45		ug/L			655530	599045	1	Standard
	Cr	52	7.961	ug/L	0.075	0	15680	182717	0	Standard
	Cr	53	8.136	ug/L	0.102	1	119	19623	2	Standard
>	Ge	72		ug/L			45192	34682	0	KED
	Ni	60	0.365	ug/L	0.007	1	27	482	0	KED
	Ni	62	0.463	ug/L	0.094	20	3	97	19	KED
	Cu	63	4.142	ug/L	0.017	0	59	14543	0	KED
	Cu	65	4.121	ug/L	0.100	2	19	7401	2	KED
	Zn	66	5.227	ug/L	0.253	4	38	2665	4	KED
	Zn	67	4.973	ug/L	0.027	0	8	414	0	KED
	As	75	0.043	ug/L	0.006	14	3	13	12	KED
	Y	89		ug/L			311569	297101	3	Standard
	Kr	83		ug/L			69	53	6	Standard
>	In-1	115		ug/L			9412	8043	1	KED
	Cd	111	0.003	ug/L	0.004	120	3	3	25	KED
	Cd	114	0.007	ug/L	0.002	33	4	9	19	KED
>	In	115		ug/L			462006	435587	0	Standard
	Ag	107	-0.000	ug/L	0.000	154	43	37	16	Standard
>	Tb	159		ug/L			1183725	1131870	1	Standard
	Pb	208	0.015	ug/L	0.001	7	262	1469	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 23:43:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	36958	1	Standard
	Cl	**37**		ug/L			6595246	6295723	3	Standard
⌈>	**Sc**	**45**		ug/L			655530	605680	2	Standard
|	**Cr**	**52**	**0.035**	ug/L	0.021	60	15680	15222	1	Standard
⌊	**Cr**	**53**	**0.012**	ug/L	0.009	71	119	139	12	Standard
⌈>	**Ge**	**72**		ug/L			45192	38507	0	KED
|	**Ni**	**60**	**-0.007**	ug/L	0.002	30	27	14	19	KED
|	**Ni**	**62**	**0.033**	ug/L	0.005	14	3	10	10	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.006	284	59	41	56	KED
|	**Cu**	**65**	**0.005**	ug/L	0.002	35	19	26	12	KED
|	**Zn**	**66**	**0.041**	ug/L	0.035	86	38	55	34	KED
|	**Zn**	**67**	**-0.034**	ug/L	0.024	69	8	4	49	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.003	48	3	1	45	KED
	Y	**89**		ug/L			311569	299053	3	Standard
	Kr	**83**		ug/L			69	53	16	Standard
⌈>	**In-1**	**115**		ug/L			9412	8796	1	KED
|	**Cd**	**111**	**-0.005**	ug/L	0.003	69	3	1	50	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.003	136	4	2	74	KED
⌈>	**In**	**115**		ug/L			462006	464156	2	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	28	43	20	32	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1133694	2	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	22	262	426	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0064-03
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 23:47:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	69545	0	Standard
	Cl	**37**		ug/L			6595246	6346696	3	Standard
⌈>	**Sc**	**45**		ug/L			655530	622246	1	Standard
|	**Cr**	**52**	**0.841**	ug/L	0.026	3	15680	33356	2	Standard
⌊	**Cr**	**53**	**1.021**	ug/L	0.030	2	119	2656	3	Standard
⌈>	**Ge**	**72**		ug/L			45192	39032	1	KED
|	**Ni**	**60**	**0.724**	ug/L	0.010	1	27	1054	1	KED
|	**Ni**	**62**	**0.751**	ug/L	0.108	14	3	176	14	KED
|	**Cu**	**63**	**5.931**	ug/L	0.189	3	59	23407	1	KED
|	**Cu**	**65**	**5.909**	ug/L	0.113	1	19	11935	1	KED
|	**Zn**	**66**	**90.430**	ug/L	1.542	1	38	51351	0	KED
|	**Zn**	**67**	**86.342**	ug/L	2.231	2	8	7974	1	KED
⌊	**As**	**75**	**0.602**	ug/L	0.030	4	3	177	5	KED
	Y	**89**		ug/L			311569	308425	3	Standard
	Kr	**83**		ug/L			69	43	19	Standard
⌈>	**In-1**	**115**		ug/L			9412	8987	1	KED
|	**Cd**	**111**	**0.044**	ug/L	0.023	52	3	16	40	KED
⌊	**Cd**	**114**	**0.038**	ug/L	0.016	43	4	33	38	KED
⌈>	**In**	**115**		ug/L			462006	468993	1	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.001	11	43	121	5	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1158976	1	Standard
⌊	**Pb**	**208**	**1.124**	ug/L	0.015	1	262	94177	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0064-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 23:52:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	80475	0	Standard
	Cl	37		ug/L			6595246	7299248	3	Standard
>	Sc	45		ug/L			655530	649737	9	Standard
	Cr	52	2.215	ug/L	0.228	10	15680	66023	2	Standard
	Cr	53	2.945	ug/L	0.228	7	119	7740	2	Standard
>	Ge	72		ug/L			45192	37662	0	KED
	Ni	60	3.660	ug/L	0.124	3	27	5047	2	KED
	Ni	62	3.731	ug/L	0.173	4	3	833	3	KED
	Cu	63	21.231	ug/L	0.344	1	59	80737	0	KED
	Cu	65	21.140	ug/L	0.089	0	19	41168	0	KED
	Zn	66	152.509	ug/L	0.985	0	38	83551	0	KED
	Zn	67	145.238	ug/L	3.091	2	8	12938	1	KED
	As	75	4.246	ug/L	0.061	1	3	1187	0	KED
	Y	89		ug/L			311569	286915	9	Standard
	Kr	83		ug/L			69	55	38	Standard
>	In-1	115		ug/L			9412	8452	1	KED
	Cd	111	2.614	ug/L	0.225	8	3	743	8	KED
	Cd	114	2.645	ug/L	0.068	2	4	1904	3	KED
>	In	115		ug/L			462006	424532	11	Standard
	Ag	107	0.011	ug/L	0.001	6	43	206	9	Standard
>	Tb	159		ug/L			1183725	1089788	9	Standard
	Pb	208	2.988	ug/L	0.323	10	262	233388	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0517-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 23:57:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	87756	0	Standard
	Cl	37		ug/L			6595246	7518886	3	Standard
>	Sc	45		ug/L			655530	699710	3	Standard
	Cr	52	2.100	ug/L	0.053	2	15680	68584	1	Standard
	Cr	53	2.827	ug/L	0.033	1	119	8043	2	Standard
>	Ge	72		ug/L			45192	38329	0	KED
	Ni	60	3.849	ug/L	0.076	1	27	5401	1	KED
	Ni	62	3.847	ug/L	0.135	3	3	874	3	KED
	Cu	63	22.019	ug/L	0.151	0	59	85223	0	KED
	Cu	65	21.907	ug/L	0.036	0	19	43418	0	KED
	Zn	66	158.707	ug/L	2.054	1	38	88489	1	KED
	Zn	67	153.928	ug/L	2.771	1	8	13956	1	KED
	As	75	4.562	ug/L	0.143	3	3	1298	3	KED
	Y	89		ug/L			311569	300506	3	Standard
	Kr	83		ug/L			69	53	41	Standard
>	In-1	115		ug/L			9412	8774	2	KED
	Cd	111	2.904	ug/L	0.100	3	3	857	1	KED
	Cd	114	2.837	ug/L	0.136	4	4	2119	4	KED
>	In	115		ug/L			462006	455979	0	Standard
	Ag	107	0.010	ug/L	0.001	15	43	205	11	Standard
>	Tb	159		ug/L			1183725	1135269	1	Standard
	Pb	208	2.932	ug/L	0.024	0	262	240132	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0517-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 00:02:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	82992	1	Standard
	Cl	37		ug/L			6595246	7419094	3	Standard
>	Sc	45		ug/L			655530	687100	2	Standard
	Cr	52	25.364	ug/L	0.222	0	15680	631763	1	Standard
	Cr	53	26.131	ug/L	0.446	1	119	71986	0	Standard
>	Ge	72		ug/L			45192	39113	1	KED
	Ni	60	31.024	ug/L	0.823	2	27	44248	1	KED
	Ni	62	30.836	ug/L	0.630	2	3	7132	1	KED
	Cu	63	47.705	ug/L	0.960	2	59	188335	1	KED
	Cu	65	47.769	ug/L	0.896	1	19	96572	0	KED
	Zn	66	231.252	ug/L	6.373	2	38	131520	1	KED
	Zn	67	222.232	ug/L	5.284	2	8	20554	1	KED
	As	75	30.878	ug/L	0.580	1	3	8950	0	KED
	Y	89		ug/L			311569	304413	0	Standard
	Kr	83		ug/L			69	69	30	Standard
>	In-1	115		ug/L			9412	8843	3	KED
	Cd	111	28.627	ug/L	0.840	2	3	8486	1	KED
	Cd	114	29.639	ug/L	0.781	2	4	22263	0	KED
>	In	115		ug/L			462006	438590	1	Standard
	Ag	107	25.122	ug/L	0.523	2	43	402679	3	Standard
>	Tb	159		ug/L			1183725	1143161	1	Standard
	Pb	208	31.432	ug/L	0.919	2	262	2589258	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 00:07:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	39397	0	Standard
	Cl	**37**		ug/L			6595246	6569723	3	Standard
⌈>	**Sc**	**45**		ug/L			655530	613888	1	Standard
|	**Cr**	**52**	**-0.021**	ug/L	0.003	15	15680	14236	1	Standard
⌊	**Cr**	**53**	**0.029**	ug/L	0.006	20	119	184	7	Standard
⌈>	**Ge**	**72**		ug/L			45192	41189	1	KED
|	**Ni**	**60**	**-0.009**	ug/L	0.002	23	27	12	24	KED
|	**Ni**	**62**	**0.004**	ug/L	0.019	442	3	4	98	KED
|	**Cu**	**63**	**0.003**	ug/L	0.004	119	59	67	23	KED
|	**Cu**	**65**	**0.004**	ug/L	0.005	111	19	27	38	KED
|	**Zn**	**66**	**0.057**	ug/L	0.007	11	38	69	4	KED
|	**Zn**	**67**	**0.061**	ug/L	0.032	53	8	13	20	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.004	180	3	2	40	KED
	Y	**89**		ug/L			311569	295829	3	Standard
	Kr	**83**		ug/L			69	34	5	Standard
⌈>	**In-1**	**115**		ug/L			9412	9195	1	KED
|	**Cd**	**111**	**0.002**	ug/L	0.005	208	3	4	35	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.003	1486	4	4	43	KED
⌈>	**In**	**115**		ug/L			462006	449638	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	59	43	57	16	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1140541	1	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	10	262	530	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 00:11:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	39756	2	Standard
	Cl	**37**		ug/L			6595246	6517209	3	Standard
⌈>	**Sc**	**45**		ug/L			655530	623287	2	Standard
|	**Cr**	**52**	**50.080**	ug/L	1.332	2	15680	1116574	0	Standard
⌊	**Cr**	**53**	**50.494**	ug/L	1.296	2	119	126044	0	Standard
⌈>	**Ge**	**72**		ug/L			45192	41434	1	KED
|	**Ni**	**60**	**51.375**	ug/L	0.738	1	27	77615	0	KED
|	**Ni**	**62**	**50.551**	ug/L	0.960	1	3	12384	0	KED
|	**Cu**	**63**	**51.394**	ug/L	0.500	0	59	214944	0	KED
|	**Cu**	**65**	**51.869**	ug/L	0.734	1	19	111088	0	KED
|	**Zn**	**66**	**52.039**	ug/L	1.107	2	38	31383	0	KED
|	**Zn**	**67**	**51.047**	ug/L	1.217	2	8	5007	1	KED
⌊	**As**	**75**	**50.646**	ug/L	1.425	2	3	15550	1	KED
	Y	**89**		ug/L			311569	295413	0	Standard
	Kr	**83**		ug/L			69	63	14	Standard
⌈>	**In-1**	**115**		ug/L			9412	9054	1	KED
|	**Cd**	**111**	**51.885**	ug/L	0.808	1	3	15753	0	KED
⌊	**Cd**	**114**	**51.919**	ug/L	1.581	3	4	39941	1	KED
⌈>	**In**	**115**		ug/L			462006	452468	2	Standard
⌊	**Ag**	**107**	**49.258**	ug/L	1.374	2	43	813975	0	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1160391	2	Standard
⌊	**Pb**	**208**	**55.425**	ug/L	1.632	2	262	4633966	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 00:18:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	39430	2	Standard
	Cl	**37**		ug/L			6595246	6608681	3	Standard
⌈>	**Sc**	**45**		ug/L			655530	627074	2	Standard
|	**Cr**	**52**	**-0.045**	ug/L	0.014	31	15680	13990	1	Standard
⌊	**Cr**	**53**	**0.011**	ug/L	0.002	19	119	141	5	Standard
⌈>	**Ge**	**72**		ug/L			45192	42221	0	KED
|	**Ni**	**60**	**0.001**	ug/L	0.009	720	27	27	47	KED
|	**Ni**	**62**	**0.006**	ug/L	0.012	191	3	5	57	KED
|	**Cu**	**63**	**0.004**	ug/L	0.012	263	59	73	65	KED
|	**Cu**	**65**	**0.010**	ug/L	0.015	155	19	39	82	KED
|	**Zn**	**66**	**-0.002**	ug/L	0.027	1362	38	34	47	KED
|	**Zn**	**67**	**-0.045**	ug/L	0.033	72	8	3	86	KED
⌊	**As**	**75**	**0.010**	ug/L	0.010	92	3	6	44	KED
	Y	**89**		ug/L			311569	291219	2	Standard
	Kr	**83**		ug/L			69	50	28	Standard
⌈>	**In-1**	**115**		ug/L			9412	9479	1	KED
|	**Cd**	**111**	**0.003**	ug/L	0.006	210	3	4	44	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.001	31	4	1	97	KED
⌈>	**In**	**115**		ug/L			462006	458881	0	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	11	43	64	4	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1162137	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	12	262	326	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0101-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 03, 2023 00:23:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	1172532	2	Standard
	Cl	37		ug/L			6595246	6069038	4	Standard
⌈>	Sc	45		ug/L			655530	579749	2	Standard
|	Cr	52	2.828	ug/L	0.035	1	15680	71751	1	Standard
⌊	Cr	53	0.881	ug/L	0.022	2	119	2150	2	Standard
⌈>	Ge	72		ug/L			45192	34089	1	KED
|	Ni	60	20.282	ug/L	0.443	2	27	25219	0	KED
|	Ni	62	19.942	ug/L	0.648	3	3	4020	2	KED
|	Cu	63	0.986	ug/L	0.047	4	59	3435	3	KED
|	Cu	65	1.029	ug/L	0.006	0	19	1828	1	KED
|	Zn	66	10.534	ug/L	0.020	0	38	5251	1	KED
|	Zn	67	10.823	ug/L	0.467	4	8	878	3	KED
⌊	As	75	0.075	ug/L	0.014	18	3	21	17	KED
	Y	89		ug/L			311569	286901	1	Standard
	Kr	83		ug/L			69	42	24	Standard
⌈>	In-1	115		ug/L			9412	7926	1	KED
|	Cd	111	0.034	ug/L	0.006	16	3	12	12	KED
⌊	Cd	114	0.027	ug/L	0.001	3	4	22	2	KED
⌈>	In	115		ug/L			462006	416475	3	Standard
⌊	Ag	107	0.000	ug/L	0.001	128	43	45	18	Standard
⌈>	Tb	159		ug/L			1183725	1096671	1	Standard
⌊	Pb	208	0.106	ug/L	0.002	2	262	8658	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0111-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 00:27:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	80966	1	Standard
	Cl	37		ug/L			6595246	6227254	3	Standard
>	Sc	45		ug/L			655530	622993	1	Standard
	Cr	52	2.609	ug/L	0.004	0	15680	72296	2	Standard
	Cr	53	2.803	ug/L	0.057	2	119	7103	1	Standard
>	Ge	72		ug/L			45192	36906	1	KED
	Ni	60	1.429	ug/L	0.066	4	27	1944	3	KED
	Ni	62	1.443	ug/L	0.093	6	3	318	7	KED
	Cu	63	10.530	ug/L	0.065	0	59	39269	1	KED
	Cu	65	10.555	ug/L	0.197	1	19	20148	0	KED
	Zn	66	60.867	ug/L	1.060	1	38	32691	0	KED
	Zn	67	58.599	ug/L	1.409	2	8	5119	1	KED
	As	75	0.584	ug/L	0.043	7	3	162	6	KED
	Y	89		ug/L			311569	295366	3	Standard
	Kr	83		ug/L			69	40	28	Standard
>	In-1	115		ug/L			9412	8253	1	KED
	Cd	111	0.043	ug/L	0.028	65	3	14	51	KED
	Cd	114	0.034	ug/L	0.008	22	4	27	17	KED
>	In	115		ug/L			462006	459705	2	Standard
	Ag	107	0.012	ug/L	0.001	9	43	237	6	Standard
>	Tb	159		ug/L			1183725	1147171	1	Standard
	Pb	208	0.937	ug/L	0.008	0	262	77764	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0113-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 03, 2023 00:31:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	49362	2	Standard
	Cl	37		ug/L			6595246	6239661	4	Standard
>	Sc	45		ug/L			655530	638547	0	Standard
	Cr	52	15.848	ug/L	0.142	0	15680	372634	1	Standard
	Cr	53	16.371	ug/L	0.040	0	119	41964	0	Standard
>	Ge	72		ug/L			45192	39359	1	KED
	Ni	60	2.821	ug/L	0.079	2	27	4070	1	KED
	Ni	62	2.870	ug/L	0.027	0	3	671	1	KED
	Cu	63	34.610	ug/L	0.573	1	59	137511	1	KED
	Cu	65	34.629	ug/L	0.142	0	19	70468	1	KED
	Zn	66	233.126	ug/L	3.855	1	38	133439	0	KED
	Zn	67	218.354	ug/L	3.629	1	8	20323	0	KED
	As	75	0.416	ug/L	0.033	7	3	124	7	KED
	Y	89		ug/L			311569	311823	4	Standard
	Kr	83		ug/L			69	40	28	Standard
>	In-1	115		ug/L			9412	8908	0	KED
	Cd	111	0.158	ug/L	0.006	3	3	50	3	KED
	Cd	114	0.139	ug/L	0.006	4	4	109	4	KED
>	In	115		ug/L			462006	472163	2	Standard
	Ag	107	0.024	ug/L	0.002	7	43	461	4	Standard
>	Tb	159		ug/L			1183725	1171679	1	Standard
	Pb	208	146.615	ug/L	0.618	0	262	12381963	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0114-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 00:37:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	69021	2	Standard
	Cl	37		ug/L			6595246	6361648	3	Standard
⌈>	Sc	45		ug/L			655530	619895	1	Standard
|	Cr	52	0.372	ug/L	0.006	1	15680	22968	1	Standard
⌊	Cr	53	0.444	ug/L	0.007	1	119	1213	3	Standard
⌈>	Ge	72		ug/L			45192	39522	1	KED
|	Ni	60	1.035	ug/L	0.027	2	27	1515	1	KED
|	Ni	62	1.201	ug/L	0.065	5	3	283	4	KED
|	Cu	63	51.623	ug/L	0.412	0	59	205955	1	KED
|	Cu	65	50.964	ug/L	0.232	0	19	104122	0	KED
|	Zn	66	116.644	ug/L	1.580	1	38	67064	0	KED
|	Zn	67	110.033	ug/L	0.506	0	8	10289	1	KED
⌊	As	75	0.695	ug/L	0.010	1	3	206	0	KED
	Y	89		ug/L			311569	308522	1	Standard
	Kr	83		ug/L			69	39	16	Standard
⌈>	In-1	115		ug/L			9412	9069	0	KED
|	Cd	111	0.169	ug/L	0.037	22	3	54	20	KED
⌊	Cd	114	0.168	ug/L	0.008	4	4	133	5	KED
⌈>	In	115		ug/L			462006	469373	0	Standard
⌊	Ag	107	0.008	ug/L	0.001	15	43	179	11	Standard
⌈>	Tb	159		ug/L			1183725	1174150	0	Standard
⌊	Pb	208	0.091	ug/L	0.001	1	262	7944	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0115-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 00:42:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	74291	2	Standard
	Cl	37		ug/L			6595246	6333176	3	Standard
⌈>	Sc	45		ug/L			655530	644262	2	Standard
|	Cr	52	1.487	ug/L	0.015	0	15680	49236	1	Standard
⌊	Cr	53	1.611	ug/L	0.021	1	119	4270	1	Standard
⌈>	Ge	72		ug/L			45192	39350	0	KED
|	Ni	60	1.781	ug/L	0.043	2	27	2578	2	KED
|	Ni	62	1.747	ug/L	0.144	8	3	409	7	KED
|	Cu	63	7.439	ug/L	0.114	1	59	29591	1	KED
|	Cu	65	7.435	ug/L	0.068	0	19	15138	0	KED
|	Zn	66	86.042	ug/L	1.068	1	38	49264	0	KED
|	Zn	67	81.091	ug/L	2.266	2	8	7551	2	KED
⌊	As	75	0.391	ug/L	0.002	0	3	117	1	KED
	Y	89		ug/L			311569	310710	2	Standard
	Kr	83		ug/L			69	46	29	Standard
⌈>	In-1	115		ug/L			9412	8752	1	KED
|	Cd	111	0.056	ug/L	0.009	16	3	19	13	KED
⌊	Cd	114	0.040	ug/L	0.003	8	4	34	7	KED
⌈>	In	115		ug/L			462006	467386	1	Standard
⌊	Ag	107	0.013	ug/L	0.000	3	43	269	3	Standard
⌈>	Tb	159		ug/L			1183725	1148048	1	Standard
⌊	Pb	208	2.445	ug/L	0.029	1	262	202573	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0442-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 00:46:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			40446	64220	0	Standard
Cl	37		ug/L			6595246	6302502	3	Standard
> Sc	45		ug/L			655530	1034272	2	Standard
Cr	52	0.125	ug/L	0.038	30	15680	29276	2	Standard
Cr	53	0.588	ug/L	0.006	1	119	2624	2	Standard
> Ge	72		ug/L			45192	36846	0	KED
Ni	60	0.288	ug/L	0.029	9	27	410	9	KED
Ni	62	0.368	ug/L	0.065	17	3	83	16	KED
Cu	63	0.064	ug/L	0.012	18	59	286	15	KED
Cu	65	0.079	ug/L	0.014	18	19	166	16	KED
Zn	66	0.368	ug/L	0.021	5	38	228	4	KED
Zn	67	0.748	ug/L	0.042	5	8	72	5	KED
As	75	8.648	ug/L	0.058	0	3	2364	0	KED
Y	89		ug/L			311569	322719	1	Standard
Kr	83		ug/L			69	46	31	Standard
> In-1	115		ug/L			9412	8169	1	KED
Cd	111	0.004	ug/L	0.015	361	3	4	96	KED
Cd	114	0.003	ug/L	0.003	102	4	6	34	KED
> In	115		ug/L			462006	429792	0	Standard
Ag	107	0.010	ug/L	0.001	7	43	193	5	Standard
> Tb	159		ug/L			1183725	994443	2	Standard
Pb	208	0.010	ug/L	0.001	7	262	909	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0054-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 00:50:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			40446	64309	2	Standard
Cl	37		ug/L			6595246	6298207	3	Standard
Sc	45		ug/L			655530	1046822	1	Standard
Cr	52	0.117	ug/L	0.016	13	15680	29373	0	Standard
Cr	53	0.552	ug/L	0.009	1	119	2505	3	Standard
Ge	72		ug/L			45192	37795	0	KED
Ni	60	0.294	ug/L	0.027	9	27	427	8	KED
Ni	62	0.273	ug/L	0.029	10	3	64	10	KED
Cu	63	0.085	ug/L	0.003	3	59	372	2	KED
Cu	65	0.091	ug/L	0.011	11	19	194	11	KED
Zn	66	0.450	ug/L	0.043	9	38	280	8	KED
Zn	67	0.763	ug/L	0.185	24	8	75	21	KED
As	75	8.443	ug/L	0.062	0	3	2367	1	KED
Y	89		ug/L			311569	323068	2	Standard
Kr	83		ug/L			69	44	13	Standard
In-1	115		ug/L			9412	8233	1	KED
Cd	111	0.004	ug/L	0.009	224	3	4	58	KED
Cd	114	0.005	ug/L	0.010	182	4	7	84	KED
In	115		ug/L			462006	427719	1	Standard
Ag	107	0.009	ug/L	0.001	13	43	180	8	Standard
Tb	159		ug/L			1183725	1010039	1	Standard
Pb	208	0.012	ug/L	0.000	3	262	1097	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0054-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 00:55:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			40446	62812	0	Standard
Cl	37		ug/L			6595246	6116805	3	Standard
> Sc	45		ug/L			655530	1004164	1	Standard
Cr	52	15.265	ug/L	0.207	1	15680	565282	1	Standard
Cr	53	15.868	ug/L	0.388	2	119	63961	1	Standard
> Ge	72		ug/L			45192	36589	2	KED
Ni	60	27.400	ug/L	0.899	3	27	36548	0	KED
Ni	62	27.061	ug/L	0.241	0	3	5855	1	KED
Cu	63	26.736	ug/L	0.906	3	59	98717	0	KED
Cu	65	27.043	ug/L	1.046	3	19	51126	1	KED
Zn	66	79.672	ug/L	1.337	1	38	42408	0	KED
Zn	67	77.399	ug/L	3.048	3	8	6698	2	KED
As	75	33.707	ug/L	0.540	1	3	9139	0	KED
Y	89		ug/L			311569	317224	2	Standard
Kr	83		ug/L			69	62	19	Standard
> In-1	115		ug/L			9412	8318	0	KED
Cd	111	26.059	ug/L	0.219	0	3	7271	0	KED
Cd	114	25.874	ug/L	0.414	1	4	18293	1	KED
> In	115		ug/L			462006	420028	1	Standard
Ag	107	24.968	ug/L	0.663	2	43	383165	2	Standard
> Tb	159		ug/L			1183725	985295	1	Standard
Pb	208	32.284	ug/L	0.144	0	262	2292819	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0054-MSD1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 01:01:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			40446	62208	1	Standard
Cl	37		ug/L			6595246	6168842	3	Standard
> Sc	45		ug/L			655530	1020201	1	Standard
Cr	52	14.907	ug/L	0.164	1	15680	561468	2	Standard
Cr	53	15.451	ug/L	0.109	0	119	63290	1	Standard
> Ge	72		ug/L			45192	37622	0	KED
Ni	60	26.251	ug/L	0.324	1	27	36025	1	KED
Ni	62	26.124	ug/L	0.352	1	3	5813	1	KED
Cu	63	26.070	ug/L	0.097	0	59	99034	0	KED
Cu	65	26.097	ug/L	0.252	0	19	50763	0	KED
Zn	66	77.197	ug/L	0.767	0	38	42265	1	KED
Zn	67	74.068	ug/L	1.424	1	8	6595	1	KED
As	75	33.480	ug/L	0.029	0	3	9337	0	KED
Y	89		ug/L			311569	322199	1	Standard
Kr	83		ug/L			69	66	28	Standard
> In-1	115		ug/L			9412	8491	0	KED
Cd	111	25.369	ug/L	0.414	1	3	7226	1	KED
Cd	114	25.357	ug/L	0.040	0	4	18301	0	KED
> In	115		ug/L			462006	409569	1	Standard
Ag	107	25.268	ug/L	0.210	0	43	378140	1	Standard
> Tb	159		ug/L			1183725	977718	1	Standard
Pb	208	32.211	ug/L	0.134	0	262	2270046	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 01:06:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	38655	1	Standard
	Cl	**37**		ug/L			6595246	6076391	3	Standard
⎡>	**Sc**	**45**		ug/L			655530	594559	1	Standard
⎢	**Cr**	**52**	**-0.043**	ug/L	0.011	25	15680	13329	3	Standard
⎣	**Cr**	**53**	**0.020**	ug/L	0.001	6	119	154	1	Standard
⎡>	**Ge**	**72**		ug/L			45192	39767	1	KED
⎢	**Ni**	**60**	**-0.007**	ug/L	0.001	19	27	14	15	KED
⎢	**Ni**	**62**	**0.010**	ug/L	0.008	77	3	5	33	KED
⎢	**Cu**	**63**	**0.001**	ug/L	0.000	46	59	55	5	KED
⎢	**Cu**	**65**	**0.003**	ug/L	0.004	107	19	24	31	KED
⎢	**Zn**	**66**	**0.040**	ug/L	0.018	44	38	57	18	KED
⎢	**Zn**	**67**	**0.045**	ug/L	0.044	98	8	12	36	KED
⎣	**As**	**75**	**0.001**	ug/L	0.003	353	3	3	28	KED
	Y	**89**		ug/L			311569	289531	3	Standard
	Kr	**83**		ug/L			69	37	11	Standard
⎡>	**In-1**	**115**		ug/L			9412	8909	1	KED
⎢	**Cd**	**111**	**0.007**	ug/L	0.008	113	3	5	44	KED
⎣	**Cd**	**114**	**0.001**	ug/L	0.005	411	4	5	68	KED
⎡>	**In**	**115**		ug/L			462006	447284	3	Standard
⎣	**Ag**	**107**	**0.001**	ug/L	0.001	62	43	64	17	Standard
⎡>	**Tb**	**159**		ug/L			1183725	1138164	0	Standard
⎣	**Pb**	**208**	**0.003**	ug/L	0.000	2	262	499	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 01:10:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	39414	1	Standard
	Cl	**37**		ug/L			6595246	6345289	2	Standard
⌈>	**Sc**	**45**		ug/L			655530	605241	1	Standard
|	**Cr**	**52**	**49.773**	ug/L	0.690	1	15680	1078190	1	Standard
⌊	**Cr**	**53**	**50.984**	ug/L	1.200	2	119	123655	3	Standard
⌈>	**Ge**	**72**		ug/L			45192	40061	2	KED
|	**Ni**	**60**	**51.444**	ug/L	0.786	1	27	75136	0	KED
|	**Ni**	**62**	**50.688**	ug/L	1.042	2	3	12005	0	KED
|	**Cu**	**63**	**51.110**	ug/L	1.406	2	59	206612	0	KED
|	**Cu**	**65**	**51.529**	ug/L	1.191	2	19	106684	0	KED
|	**Zn**	**66**	**51.100**	ug/L	1.437	2	38	29792	1	KED
|	**Zn**	**67**	**51.436**	ug/L	2.234	4	8	4878	3	KED
⌊	**As**	**75**	**50.441**	ug/L	1.162	2	3	14972	0	KED
	Y	**89**		ug/L			311569	291099	3	Standard
	Kr	**83**		ug/L			69	64	16	Standard
⌈>	**In-1**	**115**		ug/L			9412	8690	0	KED
|	**Cd**	**111**	**52.352**	ug/L	0.382	0	3	15257	1	KED
⌊	**Cd**	**114**	**52.461**	ug/L	0.572	1	4	38741	0	KED
⌈>	**In**	**115**		ug/L			462006	451362	2	Standard
⌊	**Ag**	**107**	**49.561**	ug/L	1.170	2	43	817439	3	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1150528	1	Standard
⌊	**Pb**	**208**	**56.308**	ug/L	1.132	2	262	4668652	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 01:17:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	37549	0	Standard
	Cl	**37**		ug/L			6595246	6334889	3	Standard
⌈>	**Sc**	**45**		ug/L			655530	609006	3	Standard
|	**Cr**	**52**	**-0.036**	ug/L	0.021	58	15680	13773	0	Standard
⌊	**Cr**	**53**	**0.009**	ug/L	0.002	22	119	131	6	Standard
⌈>	**Ge**	**72**		ug/L			45192	41516	1	KED
|	**Ni**	**60**	**-0.004**	ug/L	0.003	74	27	20	19	KED
|	**Ni**	**62**	**0.004**	ug/L	0.012	309	3	4	65	KED
|	**Cu**	**63**	**-0.000**	ug/L	0.004	5175	59	53	33	KED
|	**Cu**	**65**	**0.001**	ug/L	0.003	276	19	20	30	KED
|	**Zn**	**66**	**-0.007**	ug/L	0.015	200	38	31	30	KED
|	**Zn**	**67**	**-0.025**	ug/L	0.051	205	8	5	88	KED
⌊	**As**	**75**	**0.001**	ug/L	0.002	252	3	3	19	KED
	Y	**89**		ug/L			311569	289946	1	Standard
	Kr	**83**		ug/L			69	44	12	Standard
⌈>	**In-1**	**115**		ug/L			9412	9037	1	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.002	49	3	2	24	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.010	151	4	9	79	KED
⌈>	**In**	**115**		ug/L			462006	449182	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	77	43	66	27	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1135023	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	5	262	274	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0643-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 01:22:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	57961	1	Standard
	Cl	37		ug/L			6595246	6275021	3	Standard
⌈>	Sc	45		ug/L			655530	623844	2	Standard
|	Cr	52	0.146	ug/L	0.037	25	15680	18120	3	Standard
⌊	Cr	53	0.171	ug/L	0.009	5	119	539	2	Standard
⌈>	Ge	72		ug/L			45192	40291	0	KED
|	Ni	60	-0.004	ug/L	0.003	90	27	19	24	KED
|	Ni	62	-0.004	ug/L	0.005	127	3	2	43	KED
|	Cu	63	0.028	ug/L	0.006	23	59	166	15	KED
|	Cu	65	0.041	ug/L	0.009	21	19	102	18	KED
|	Zn	66	0.260	ug/L	0.049	18	38	186	15	KED
|	Zn	67	0.310	ug/L	0.013	4	8	37	2	KED
⌊	As	75	0.003	ug/L	0.004	137	3	4	29	KED
	Y	89		ug/L			311569	291016	2	Standard
	Kr	83		ug/L			69	48	17	Standard
⌈>	In-1	115		ug/L			9412	9130	3	KED
|	Cd	111	0.002	ug/L	0.002	86	3	4	13	KED
⌊	Cd	114	0.001	ug/L	0.004	775	4	5	62	KED
⌈>	In	115		ug/L			462006	452205	1	Standard
⌊	Ag	107	-0.000	ug/L	0.001	166	43	36	29	Standard
⌈>	Tb	159		ug/L			1183725	1143266	1	Standard
⌊	Pb	208	0.004	ug/L	0.000	9	262	547	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0643-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 01:26:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	60594	2	Standard
	Cl	37		ug/L			6595246	6425749	3	Standard
>	Sc	45		ug/L			655530	622484	0	Standard
	Cr	52	25.424	ug/L	0.121	0	15680	573707	0	Standard
	Cr	53	25.917	ug/L	0.117	0	119	64700	1	Standard
>	Ge	72		ug/L			45192	39686	0	KED
	Ni	60	26.626	ug/L	0.143	0	27	38543	0	KED
	Ni	62	26.367	ug/L	0.865	3	3	6189	3	KED
	Cu	63	27.075	ug/L	0.360	1	59	108496	1	KED
	Cu	65	26.928	ug/L	0.405	1	19	55252	1	KED
	Zn	66	84.693	ug/L	0.817	0	38	48910	1	KED
	Zn	67	82.633	ug/L	1.163	1	8	7761	1	KED
	As	75	26.072	ug/L	0.251	0	3	7670	1	KED
	Y	89		ug/L			311569	291816	1	Standard
	Kr	83		ug/L			69	57	11	Standard
>	In-1	115		ug/L			9412	8602	2	KED
	Cd	111	27.163	ug/L	0.763	2	3	7834	0	KED
	Cd	114	27.389	ug/L	0.596	2	4	20019	1	KED
>	In	115		ug/L			462006	447083	3	Standard
	Ag	107	25.057	ug/L	0.110	0	43	409333	2	Standard
>	Tb	159		ug/L			1183725	1135560	1	Standard
	Pb	208	28.648	ug/L	0.445	1	262	2344568	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0073-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 01:30:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	66964	0	Standard
	Cl	37		ug/L			6595246	7069932	3	Standard
>	Sc	45		ug/L			655530	763830	2	Standard
	Cr	52	0.008	ug/L	0.016	185	15680	18491	0	Standard
	Cr	53	1.086	ug/L	0.037	3	119	3460	2	Standard
>	Ge	72		ug/L			45192	37065	0	KED
	Ni	60	2.799	ug/L	0.074	2	27	3805	2	KED
	Ni	62	2.828	ug/L	0.112	3	3	622	3	KED
	Cu	63	0.438	ug/L	0.038	8	59	1687	8	KED
	Cu	65	0.439	ug/L	0.030	6	19	857	6	KED
	Zn	66	2.095	ug/L	0.048	2	38	1160	1	KED
	Zn	67	2.662	ug/L	0.232	8	8	240	8	KED
	As	75	0.543	ug/L	0.013	2	3	152	2	KED
	Y	89		ug/L			311569	290431	1	Standard
	Kr	83		ug/L			69	57	18	Standard
>	In-1	115		ug/L			9412	8386	1	KED
	Cd	111	0.030	ug/L	0.006	20	3	11	14	KED
	Cd	114	0.023	ug/L	0.011	46	4	20	36	KED
>	In	115		ug/L			462006	438166	1	Standard
	Ag	107	0.002	ug/L	0.001	38	43	74	15	Standard
>	Tb	159		ug/L			1183725	1109432	0	Standard
	Pb	208	0.018	ug/L	0.001	6	262	1713	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0075-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 01:33:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	64832	0	Standard
	Cl	**37**		ug/L			6595246	6554343	4	Standard
⌈>	**Sc**	**45**		ug/L			655530	627384	2	Standard
|	**Cr**	**52**	**0.561**	ug/L	0.033	5	15680	27421	1	Standard
⌊	**Cr**	**53**	**0.773**	ug/L	0.036	4	119	2055	2	Standard
⌈>	**Ge**	**72**		ug/L			45192	38961	1	KED
|	**Ni**	**60**	**0.854**	ug/L	0.025	2	27	1236	1	KED
|	**Ni**	**62**	**0.844**	ug/L	0.093	10	3	197	9	KED
|	**Cu**	**63**	**3.295**	ug/L	0.012	0	59	13008	1	KED
|	**Cu**	**65**	**3.235**	ug/L	0.040	1	19	6532	2	KED
|	**Zn**	**66**	**50.767**	ug/L	0.270	0	38	28796	1	KED
|	**Zn**	**67**	**49.150**	ug/L	1.395	2	8	4534	2	KED
⌊	**As**	**75**	**0.120**	ug/L	0.012	9	3	37	9	KED
	Y	**89**		ug/L			311569	296484	3	Standard
	Kr	**83**		ug/L			69	44	21	Standard
⌈>	**In-1**	**115**		ug/L			9412	8722	1	KED
|	**Cd**	**111**	**0.036**	ug/L	0.007	20	3	13	14	KED
⌊	**Cd**	**114**	**0.028**	ug/L	0.008	27	4	25	24	KED
⌈>	**In**	**115**		ug/L			462006	446955	2	Standard
⌊	**Ag**	**107**	**0.006**	ug/L	0.000	3	43	140	3	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1141647	3	Standard
⌊	**Pb**	**208**	**0.873**	ug/L	0.022	2	262	72022	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0075-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 01:37:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	65896	1	Standard
	Cl	37		ug/L			6595246	6482362	3	Standard
>	Sc	45		ug/L			655530	648236	0	Standard
	Cr	52	0.599	ug/L	0.012	1	15680	29213	1	Standard
	Cr	53	0.844	ug/L	0.008	0	119	2308	0	Standard
>	Ge	72		ug/L			45192	38569	1	KED
	Ni	60	0.777	ug/L	0.041	5	27	1116	5	KED
	Ni	62	0.768	ug/L	0.096	12	3	178	13	KED
	Cu	63	5.057	ug/L	0.027	0	59	19736	1	KED
	Cu	65	5.068	ug/L	0.108	2	19	10118	1	KED
	Zn	66	54.921	ug/L	1.138	2	38	30830	0	KED
	Zn	67	54.188	ug/L	1.539	2	8	4948	3	KED
	As	75	0.421	ug/L	0.014	3	3	123	3	KED
	Y	89		ug/L			311569	302296	4	Standard
	Kr	83		ug/L			69	48	4	Standard
>	In-1	115		ug/L			9412	8586	2	KED
	Cd	111	0.036	ug/L	0.009	24	3	13	20	KED
	Cd	114	0.045	ug/L	0.014	30	4	37	25	KED
>	In	115		ug/L			462006	466041	1	Standard
	Ag	107	0.004	ug/L	0.002	36	43	114	22	Standard
>	Tb	159		ug/L			1183725	1161227	0	Standard
	Pb	208	0.902	ug/L	0.009	1	262	75750	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0075-03
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Wednesday, May 03, 2023 01:41:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	102436	3	Standard
	Cl	**37**		ug/L			6595246	39000528	8	Standard
>	**Sc**	**45**		ug/L			655530	661961	2	Standard
	Cr	**52**	**1.661**	ug/L	0.017	1	15680	54655	2	Standard
	Cr	**53**	**23.917**	ug/L	0.143	0	119	63508	3	Standard
>	**Ge**	**72**		ug/L			45192	29850	1	KED
	Ni	**60**	**1.516**	ug/L	0.072	4	27	1667	3	KED
	Ni	**62**	**1.689**	ug/L	0.183	10	3	300	9	KED
	Cu	**63**	**3.035**	ug/L	0.010	0	59	9183	1	KED
	Cu	**65**	**3.052**	ug/L	0.045	1	19	4722	2	KED
	Zn	**66**	**14.356**	ug/L	0.125	0	38	6257	1	KED
	Zn	**67**	**15.045**	ug/L	0.443	2	8	1067	1	KED
	As	**75**	**1.431**	ug/L	0.012	0	3	318	0	KED
	Y	**89**		ug/L			311569	246519	3	Standard
	Kr	**83**		ug/L			69	495	15	Standard
>	**In-1**	**115**		ug/L			9412	6709	1	KED
	Cd	**111**	**0.024**	ug/L	0.013	55	3	7	36	KED
	Cd	**114**	**0.015**	ug/L	0.001	6	4	12	3	KED
>	**In**	**115**		ug/L			462006	331016	0	Standard
	Ag	**107**	**0.008**	ug/L	0.002	20	43	133	15	Standard
>	**Tb**	**159**		ug/L			1183725	941226	0	Standard
	Pb	**208**	**0.371**	ug/L	0.002	0	262	25390	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0075-04
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 01:45:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	72922	2	Standard
	Cl	37		ug/L			6595246	7522826	2	Standard
>	Sc	45		ug/L			655530	669967	1	Standard
	Cr	52	1.210	ug/L	0.045	3	15680	44648	1	Standard
	Cr	53	2.677	ug/L	0.074	2	119	7298	0	Standard
>	Ge	72		ug/L			45192	42366	1	KED
	Ni	60	1.121	ug/L	0.049	4	27	1756	3	KED
	Ni	62	1.213	ug/L	0.017	1	3	307	0	KED
	Cu	63	4.819	ug/L	0.138	2	59	20654	1	KED
	Cu	65	4.764	ug/L	0.093	1	19	10449	1	KED
	Zn	66	83.118	ug/L	1.295	1	38	51236	0	KED
	Zn	67	82.831	ug/L	1.340	1	8	8304	0	KED
	As	75	0.205	ug/L	0.022	10	3	67	9	KED
	Y	89		ug/L			311569	297016	1	Standard
	Kr	83		ug/L			69	43	10	Standard
>	In-1	115		ug/L			9412	9161	0	KED
	Cd	111	0.045	ug/L	0.006	13	3	17	11	KED
	Cd	114	0.025	ug/L	0.009	35	4	24	28	KED
>	In	115		ug/L			462006	457687	1	Standard
	Ag	107	0.007	ug/L	0.000	6	43	160	5	Standard
>	Tb	159		ug/L			1183725	1161799	1	Standard
	Pb	208	1.682	ug/L	0.018	1	262	141139	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0075-05
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 01:48:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	77787	1	Standard
	Cl	**37**		ug/L			6595246	11317030	2	Standard
⌈>	**Sc**	**45**		ug/L			655530	733109	2	Standard
|	**Cr**	**52**	**0.745**	ug/L	0.051	6	15680	36786	1	Standard
⌊	**Cr**	**53**	**4.425**	ug/L	0.083	1	119	13118	2	Standard
⌈>	**Ge**	**72**		ug/L			45192	38901	1	KED
|	**Ni**	**60**	**0.914**	ug/L	0.077	8	27	1320	8	KED
|	**Ni**	**62**	**0.869**	ug/L	0.075	8	3	203	8	KED
|	**Cu**	**63**	**4.328**	ug/L	0.020	0	59	17040	1	KED
|	**Cu**	**65**	**4.276**	ug/L	0.110	2	19	8612	1	KED
|	**Zn**	**66**	**59.099**	ug/L	0.969	1	38	33456	0	KED
|	**Zn**	**67**	**58.578**	ug/L	0.405	0	8	5395	2	KED
⌊	**As**	**75**	**1.701**	ug/L	0.044	2	3	493	3	KED
	Y	**89**		ug/L			311569	289241	1	Standard
	Kr	**83**		ug/L			69	43	42	Standard
⌈>	**In-1**	**115**		ug/L			9412	8445	1	KED
|	**Cd**	**111**	**0.042**	ug/L	0.008	18	3	14	13	KED
⌊	**Cd**	**114**	**0.044**	ug/L	0.019	42	4	35	36	KED
⌈>	**In**	**115**		ug/L			462006	418844	1	Standard
⌊	**Ag**	**107**	**0.007**	ug/L	0.001	13	43	143	9	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1123355	0	Standard
⌊	**Pb**	**208**	**0.952**	ug/L	0.014	1	262	77341	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0197-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 01:52:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	71374	3	Standard
	Cl	37		ug/L			6595246	6980711	3	Standard
>	Sc	45		ug/L			655530	642955	1	Standard
	Cr	52	0.230	ug/L	0.025	10	15680	20600	1	Standard
	Cr	53	0.682	ug/L	0.024	3	119	1873	2	Standard
>	Ge	72		ug/L			45192	41370	0	KED
	Ni	60	0.122	ug/L	0.004	3	27	210	2	KED
	Ni	62	0.123	ug/L	0.036	28	3	33	26	KED
	Cu	63	1.458	ug/L	0.014	0	59	6139	0	KED
	Cu	65	1.432	ug/L	0.028	1	19	3079	2	KED
	Zn	66	22.921	ug/L	0.112	0	38	13823	0	KED
	Zn	67	21.521	ug/L	0.285	1	8	2113	1	KED
	As	75	0.074	ug/L	0.023	30	3	26	26	KED
	Y	89		ug/L			311569	296989	2	Standard
	Kr	83		ug/L			69	46	18	Standard
>	In-1	115		ug/L			9412	9064	2	KED
	Cd	111	0.014	ug/L	0.011	79	3	7	45	KED
	Cd	114	0.009	ug/L	0.004	41	4	11	24	KED
>	In	115		ug/L			462006	462820	3	Standard
	Ag	107	0.003	ug/L	0.000	10	43	88	3	Standard
>	Tb	159		ug/L			1183725	1170231	2	Standard
	Pb	208	0.085	ug/L	0.004	4	262	7434	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 01:56:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	41121	3	Standard
	Cl	**37**		ug/L			6595246	6982020	2	Standard
⌈>	**Sc**	**45**		ug/L			655530	617640	2	Standard
|	**Cr**	**52**	**-0.001**	ug/L	0.007	702	15680	14754	2	Standard
⌊	**Cr**	**53**	**0.325**	ug/L	0.004	1	119	915	2	Standard
⌈>	**Ge**	**72**		ug/L			45192	41279	1	KED
|	**Ni**	**60**	**-0.010**	ug/L	0.003	29	27	10	43	KED
|	**Ni**	**62**	**0.017**	ug/L	0.028	165	3	7	90	KED
|	**Cu**	**63**	**0.001**	ug/L	0.002	132	59	59	12	KED
|	**Cu**	**65**	**0.002**	ug/L	0.004	258	19	21	43	KED
|	**Zn**	**66**	**0.056**	ug/L	0.012	21	38	69	9	KED
|	**Zn**	**67**	**0.067**	ug/L	0.100	149	8	14	65	KED
⌊	**As**	**75**	**0.001**	ug/L	0.005	460	3	3	39	KED
	Y	**89**		ug/L			311569	289259	4	Standard
	Kr	**83**		ug/L			69	39	7	Standard
⌈>	**In-1**	**115**		ug/L			9412	8817	0	KED
|	**Cd**	**111**	**0.001**	ug/L	0.002	255	3	3	15	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.001	31	4	1	99	KED
⌈>	**In**	**115**		ug/L			462006	446180	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	83	43	27	44	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1140816	1	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	10	262	415	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:00:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	40377	0	Standard
	Cl	**37**		ug/L			6595246	6787710	3	Standard
⌈>	**Sc**	**45**		ug/L			655530	625093	0	Standard
|	**Cr**	**52**	**49.976**	ug/L	0.611	1	15680	1118097	1	Standard
⌊	**Cr**	**53**	**50.587**	ug/L	0.616	1	119	126706	1	Standard
⌈>	**Ge**	**72**		ug/L			45192	41391	0	KED
|	**Ni**	**60**	**51.021**	ug/L	0.288	0	27	77007	0	KED
|	**Ni**	**62**	**50.404**	ug/L	0.345	0	3	12337	0	KED
|	**Cu**	**63**	**51.389**	ug/L	0.680	1	59	214709	0	KED
|	**Cu**	**65**	**51.871**	ug/L	1.051	2	19	110985	1	KED
|	**Zn**	**66**	**51.284**	ug/L	0.707	1	38	30904	1	KED
|	**Zn**	**67**	**50.730**	ug/L	0.976	1	8	4972	2	KED
⌊	**As**	**75**	**50.388**	ug/L	0.508	1	3	15457	0	KED
	Y	**89**		ug/L			311569	293290	2	Standard
	Kr	**83**		ug/L			69	55	24	Standard
⌈>	**In-1**	**115**		ug/L			9412	8746	2	KED
|	**Cd**	**111**	**53.140**	ug/L	1.484	2	3	15579	1	KED
⌊	**Cd**	**114**	**53.410**	ug/L	1.457	2	4	39679	0	KED
⌈>	**In**	**115**		ug/L			462006	441409	2	Standard
⌊	**Ag**	**107**	**49.987**	ug/L	0.485	0	43	806120	1	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1146109	0	Standard
⌊	**Pb**	**208**	**55.331**	ug/L	0.625	1	262	4570617	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:06:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	39381	1	Standard
	Cl	**37**		ug/L			6595246	6828429	2	Standard
⌈>	**Sc**	**45**		ug/L			655530	617611	0	Standard
|	**Cr**	**52**	**-0.038**	ug/L	0.001	3	15680	13934	0	Standard
⌊	**Cr**	**53**	**0.133**	ug/L	0.005	4	119	441	3	Standard
⌈>	**Ge**	**72**		ug/L			45192	42036	2	KED
|	**Ni**	**60**	**-0.007**	ug/L	0.003	39	27	14	32	KED
|	**Ni**	**62**	**0.006**	ug/L	0.009	139	3	5	43	KED
|	**Cu**	**63**	**-0.000**	ug/L	0.001	920	59	54	8	KED
|	**Cu**	**65**	**0.003**	ug/L	0.004	132	19	24	33	KED
|	**Zn**	**66**	**-0.008**	ug/L	0.009	111	38	31	19	KED
|	**Zn**	**67**	**-0.045**	ug/L	0.050	110	8	3	132	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.002	173	3	3	24	KED
	Y	**89**		ug/L			311569	290860	0	Standard
	Kr	**83**		ug/L			69	33	6	Standard
⌈>	**In-1**	**115**		ug/L			9412	9256	2	KED
|	**Cd**	**111**	**0.005**	ug/L	0.007	126	3	5	43	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.003	99	4	6	32	KED
⌈>	**In**	**115**		ug/L			462006	447558	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	23	43	73	7	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1142488	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	40	262	271	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:10:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				39923	1	Standard
	Cl	**37**		ug/L				6850428	3	Standard
⌈>	**Sc**	**45**		ug/L				616697	1	Standard
|	**Cr**	**52**		ug/L				14221	3	Standard
⌊	**Cr**	**53**		ug/L				394	4	Standard
⌈>	**Ge**	**72**		ug/L				40908	1	KED
|	**Ni**	**60**		ug/L				10	21	KED
|	**Ni**	**62**		ug/L				5	33	KED
|	**Cu**	**63**		ug/L				45	6	KED
|	**Cu**	**65**		ug/L				22	22	KED
|	**Zn**	**66**		ug/L				41	17	KED
|	**Zn**	**67**		ug/L				8	35	KED
⌊	**As**	**75**		ug/L				3	60	KED
	Y	**89**		ug/L				284905	2	Standard
	Kr	**83**		ug/L				45	6	Standard
⌈>	**In-1**	**115**		ug/L				8791	4	KED
|	**Cd**	**111**		ug/L				4	72	KED
⌊	**Cd**	**114**		ug/L				3	71	KED
⌈>	**In**	**115**		ug/L				445913	1	Standard
⌊	**Ag**	**107**		ug/L				41	4	Standard
⌈>	**Tb**	**159**		ug/L				1137421	2	Standard
⌊	**Pb**	**208**		ug/L				280	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:14:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	39096	2	Standard
	Cl	**37**		ug/L			6850428	6757659	2	Standard
⌈>	**Sc**	**45**		ug/L			616697	614660	1	Standard
|	**Cr**	**52**	**51.010**	ug/L	0.136	0	14221	1121354	1	Standard
⌊	**Cr**	**53**	**50.751**	ug/L	0.021	0	394	125274	1	Standard
⌈>	**Ge**	**72**		ug/L			40908	40697	1	KED
|	**Ni**	**60**	**51.983**	ug/L	0.376	0	10	77125	0	KED
|	**Ni**	**62**	**51.441**	ug/L	1.648	3	5	12381	2	KED
|	**Cu**	**63**	**52.394**	ug/L	0.239	0	45	215231	0	KED
|	**Cu**	**65**	**52.378**	ug/L	0.422	0	22	110198	0	KED
|	**Zn**	**66**	**51.767**	ug/L	0.830	1	41	30679	2	KED
|	**Zn**	**67**	**51.764**	ug/L	1.168	2	8	4989	2	KED
⌊	**As**	**75**	**51.117**	ug/L	0.406	0	3	15420	1	KED
	Y	**89**		ug/L			284905	287706	3	Standard
	Kr	**83**		ug/L			45	52	25	Standard
⌈>	**In-1**	**115**		ug/L			8791	8690	1	KED
|	**Cd**	**111**	**52.925**	ug/L	0.292	0	4	15426	1	KED
⌊	**Cd**	**114**	**52.728**	ug/L	0.517	0	3	38942	1	KED
⌈>	**In**	**115**		ug/L			445913	444640	0	Standard
⌊	**Ag**	**107**	**49.073**	ug/L	1.326	2	41	797249	2	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1124639	2	Standard
⌊	**Pb**	**208**	**56.177**	ug/L	1.801	3	280	4551251	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:20:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	38321	2	Standard
	Cl	**37**		ug/L			6850428	6791331	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	613828	2	Standard
|	**Cr**	**52**	**0.004**	ug/L	0.003	88	14221	14236	2	Standard
⌊	**Cr**	**53**	**-0.027**	ug/L	0.003	9	394	325	4	Standard
⌈>	**Ge**	**72**		ug/L			40908	41414	1	KED
|	**Ni**	**60**	**0.001**	ug/L	0.001	53	10	12	9	KED
|	**Ni**	**62**	**-0.016**	ug/L	0.008	49	5	1	100	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.005	637	45	42	45	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.004	615	22	21	41	KED
|	**Zn**	**66**	**-0.035**	ug/L	0.003	7	41	20	9	KED
|	**Zn**	**67**	**-0.027**	ug/L	0.020	75	8	5	33	KED
⌊	**As**	**75**	**0.007**	ug/L	0.004	57	3	6	18	KED
	Y	**89**		ug/L			284905	285876	4	Standard
	Kr	**83**		ug/L			45	44	13	Standard
⌈>	**In-1**	**115**		ug/L			8791	9019	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.005	182	4	4	35	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.002	73	3	5	33	KED
⌈>	**In**	**115**		ug/L			445913	441162	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	37	41	68	12	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1116913	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	3078	280	275	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0147-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:24:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	63008	2	Standard
	Cl	37		ug/L			6850428	6718726	4	Standard
>	Sc	45		ug/L			616697	874436	8	Standard
	Cr	52	0.119	ug/L	0.075	62	14221	23721	1	Standard
	Cr	53	0.330	ug/L	0.024	7	394	1708	3	Standard
>	Ge	72		ug/L			40908	39462	0	KED
	Ni	60	1.899	ug/L	0.048	2	10	2740	1	KED
	Ni	62	1.813	ug/L	0.064	3	5	428	4	KED
	Cu	63	1.631	ug/L	0.045	2	45	6536	1	KED
	Cu	65	1.632	ug/L	0.055	3	22	3350	2	KED
	Zn	66	22.812	ug/L	0.328	1	41	13129	0	KED
	Zn	67	22.875	ug/L	0.756	3	8	2142	3	KED
	As	75	6.876	ug/L	0.125	1	3	2014	1	KED
	Y	89		ug/L			284905	286404	9	Standard
	Kr	83		ug/L			45	48	30	Standard
>	In-1	115		ug/L			8791	8789	2	KED
	Cd	111	0.393	ug/L	0.037	9	4	120	8	KED
	Cd	114	0.483	ug/L	0.079	16	3	363	15	KED
>	In	115		ug/L			445913	419526	10	Standard
	Ag	107	0.003	ug/L	0.001	46	41	88	32	Standard
>	Tb	159		ug/L			1137421	1074735	9	Standard
	Pb	208	0.456	ug/L	0.049	10	280	35377	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0147-03
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:27:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	71918	2	Standard
	Cl	**37**		ug/L			6850428	7739968	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	698275	3	Standard
|	**Cr**	**52**	**0.446**	ug/L	0.011	2	14221	27098	2	Standard
⌊	**Cr**	**53**	**1.397**	ug/L	0.030	2	394	4350	3	Standard
⌈>	**Ge**	**72**		ug/L			40908	38651	1	KED
|	**Ni**	**60**	**1.294**	ug/L	0.059	4	10	1831	3	KED
|	**Ni**	**62**	**1.313**	ug/L	0.074	5	5	305	5	KED
|	**Cu**	**63**	**2.950**	ug/L	0.042	1	45	11547	0	KED
|	**Cu**	**65**	**2.911**	ug/L	0.083	2	22	5835	1	KED
|	**Zn**	**66**	**43.529**	ug/L	0.568	1	41	24501	0	KED
|	**Zn**	**67**	**41.624**	ug/L	0.796	1	8	3811	1	KED
⌊	**As**	**75**	**0.507**	ug/L	0.040	7	3	149	8	KED
	Y	**89**		ug/L			284905	297234	2	Standard
	Kr	**83**		ug/L			45	52	7	Standard
⌈>	**In-1**	**115**		ug/L			8791	8650	1	KED
|	**Cd**	**111**	**0.015**	ug/L	0.009	59	4	8	26	KED
⌊	**Cd**	**114**	**0.028**	ug/L	0.010	35	3	23	29	KED
⌈>	**In**	**115**		ug/L			445913	429216	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	20	41	79	9	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1125942	2	Standard
⌊	**Pb**	**208**	**0.303**	ug/L	0.003	0	280	24878	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0152-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:31:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	68627	0	Standard
	Cl	37		ug/L			6850428	7752509	2	Standard
>	Sc	45		ug/L			616697	641002	1	Standard
	Cr	52	0.276	ug/L	0.017	6	14221	21021	1	Standard
	Cr	53	0.994	ug/L	0.020	1	394	2959	1	Standard
>	Ge	72		ug/L			40908	39791	3	KED
	Ni	60	1.494	ug/L	0.102	6	10	2176	6	KED
	Ni	62	1.384	ug/L	0.103	7	5	330	6	KED
	Cu	63	1.349	ug/L	0.062	4	45	5455	1	KED
	Cu	65	1.359	ug/L	0.096	7	22	2812	3	KED
	Zn	66	15.019	ug/L	0.484	3	41	8724	0	KED
	Zn	67	15.779	ug/L	0.166	1	8	1492	4	KED
	As	75	0.087	ug/L	0.008	9	3	29	4	KED
	Y	89		ug/L			284905	299193	2	Standard
	Kr	83		ug/L			45	41	25	Standard
>	In-1	115		ug/L			8791	8105	15	KED
	Cd	111	0.058	ug/L	0.029	48	4	20	47	KED
	Cd	114	0.075	ug/L	0.040	53	3	52	41	KED
>	In	115		ug/L			445913	441649	1	Standard
	Ag	107	0.003	ug/L	0.001	20	41	92	11	Standard
>	Tb	159		ug/L			1137421	1144488	1	Standard
	Pb	208	0.216	ug/L	0.004	1	280	18059	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0155-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:34:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	66484	1	Standard
	Cl	37		ug/L			6850428	7042806	2	Standard
>	Sc	45		ug/L			616697	652143	2	Standard
	Cr	52	0.146	ug/L	0.007	5	14221	18401	2	Standard
	Cr	53	0.761	ug/L	0.020	2	394	2402	0	Standard
>	Ge	72		ug/L			40908	39884	1	KED
	Ni	60	0.337	ug/L	0.036	10	10	499	9	KED
	Ni	62	0.286	ug/L	0.016	5	5	73	3	KED
	Cu	63	5.041	ug/L	0.022	0	45	20331	1	KED
	Cu	65	5.037	ug/L	0.080	1	22	10405	1	KED
	Zn	66	27.926	ug/L	0.376	1	41	16235	1	KED
	Zn	67	26.404	ug/L	0.742	2	8	2497	2	KED
	As	75	0.126	ug/L	0.010	8	3	41	6	KED
	Y	89		ug/L			284905	291206	6	Standard
	Kr	83		ug/L			45	31	21	Standard
>	In-1	115		ug/L			8791	8478	1	KED
	Cd	111	0.024	ug/L	0.009	38	4	11	22	KED
	Cd	114	0.027	ug/L	0.008	29	3	22	25	KED
>	In	115		ug/L			445913	432246	2	Standard
	Ag	107	0.004	ug/L	0.001	21	41	97	14	Standard
>	Tb	159		ug/L			1137421	1132561	2	Standard
	Pb	208	0.052	ug/L	0.001	1	280	4541	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0156-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:38:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	68174	0	Standard
	Cl	**37**		ug/L			6850428	6795137	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	629609	1	Standard
|	**Cr**	**52**	**0.331**	ug/L	0.008	2	14221	21885	1	Standard
⌊	**Cr**	**53**	**0.361**	ug/L	0.031	8	394	1311	6	Standard
⌈>	**Ge**	**72**		ug/L			40908	41217	1	KED
|	**Ni**	**60**	**0.541**	ug/L	0.004	0	10	823	1	KED
|	**Ni**	**62**	**0.571**	ug/L	0.045	7	5	144	6	KED
|	**Cu**	**63**	**14.292**	ug/L	0.047	0	45	59496	1	KED
|	**Cu**	**65**	**14.089**	ug/L	0.453	3	22	30029	2	KED
|	**Zn**	**66**	**27.070**	ug/L	0.147	0	41	16265	1	KED
|	**Zn**	**67**	**26.306**	ug/L	1.290	4	8	2570	3	KED
⌊	**As**	**75**	**0.193**	ug/L	0.006	3	3	63	1	KED
	Y	**89**		ug/L			284905	296584	3	Standard
	Kr	**83**		ug/L			45	34	24	Standard
⌈>	**In-1**	**115**		ug/L			8791	8925	1	KED
|	**Cd**	**111**	**0.023**	ug/L	0.008	35	4	11	20	KED
⌊	**Cd**	**114**	**0.038**	ug/L	0.011	30	3	31	27	KED
⌈>	**In**	**115**		ug/L			445913	455003	2	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.001	18	41	128	10	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1179168	2	Standard
⌊	**Pb**	**208**	**0.716**	ug/L	0.009	1	280	61173	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0162-03
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:42:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	80172	2	Standard
	Cl	**37**		ug/L			6850428	10026756	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	686800	2	Standard
|	**Cr**	**52**	**6.824**	ug/L	0.269	3	14221	181237	1	Standard
⌊	**Cr**	**53**	**9.197**	ug/L	0.251	2	394	25712	0	Standard
⌈>	**Ge**	**72**		ug/L			40908	38717	1	KED
|	**Ni**	**60**	**3.368**	ug/L	0.021	0	10	4762	1	KED
|	**Ni**	**62**	**3.324**	ug/L	0.077	2	5	766	2	KED
|	**Cu**	**63**	**21.768**	ug/L	0.577	2	45	85078	1	KED
|	**Cu**	**65**	**21.900**	ug/L	0.407	1	22	43840	0	KED
|	**Zn**	**66**	**67.812**	ug/L	0.707	1	41	38213	0	KED
|	**Zn**	**67**	**65.076**	ug/L	1.945	2	8	5965	3	KED
⌊	**As**	**75**	**1.882**	ug/L	0.141	7	3	543	6	KED
	Y	**89**		ug/L			284905	284040	1	Standard
	Kr	**83**		ug/L			45	43	11	Standard
⌈>	**In-1**	**115**		ug/L			8791	8176	1	KED
|	**Cd**	**111**	**0.067**	ug/L	0.003	4	4	22	4	KED
⌊	**Cd**	**114**	**0.067**	ug/L	0.008	12	3	49	12	KED
⌈>	**In**	**115**		ug/L			445913	422094	1	Standard
⌊	**Ag**	**107**	**0.019**	ug/L	0.001	6	41	336	7	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1108563	0	Standard
⌊	**Pb**	**208**	**2.806**	ug/L	0.057	2	280	224449	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0162-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:45:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	65188	1	Standard
	Cl	37		ug/L			6850428	8362727	3	Standard
⌈>	Sc	45		ug/L			616697	660332	0	Standard
|	Cr	52	4.765	ug/L	0.016	0	14221	126326	0	Standard
⌊	Cr	53	5.959	ug/L	0.054	0	394	16174	1	Standard
⌈>	Ge	72		ug/L			40908	39295	0	KED
|	Ni	60	2.722	ug/L	0.086	3	10	3908	2	KED
|	Ni	62	2.870	ug/L	0.266	9	5	671	8	KED
|	Cu	63	18.645	ug/L	0.159	0	45	73981	0	KED
|	Cu	65	18.691	ug/L	0.239	1	22	37981	0	KED
|	Zn	66	62.002	ug/L	0.577	0	41	35466	0	KED
|	Zn	67	59.087	ug/L	1.090	1	8	5496	1	KED
⌊	As	75	1.259	ug/L	0.072	5	3	370	4	KED
	Y	89		ug/L			284905	293320	3	Standard
	Kr	83		ug/L			45	38	51	Standard
⌈>	In-1	115		ug/L			8791	8365	1	KED
|	Cd	111	0.044	ug/L	0.014	31	4	16	23	KED
⌊	Cd	114	0.059	ug/L	0.012	20	3	44	17	KED
⌈>	In	115		ug/L			445913	425642	2	Standard
⌊	Ag	107	0.018	ug/L	0.001	7	41	312	6	Standard
⌈>	Tb	159		ug/L			1137421	1125170	3	Standard
⌊	Pb	208	3.943	ug/L	0.086	2	280	319878	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0162-05
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:49:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	64858	2	Standard
	Cl	37		ug/L			6850428	8263461	3	Standard
>	Sc	45		ug/L			616697	674566	0	Standard
	Cr	52	4.897	ug/L	0.082	1	14221	132194	1	Standard
	Cr	53	6.104	ug/L	0.061	1	394	16916	1	Standard
>	Ge	72		ug/L			40908	39249	0	KED
	Ni	60	3.489	ug/L	0.057	1	10	5001	1	KED
	Ni	62	3.618	ug/L	0.413	11	5	845	11	KED
	Cu	63	18.996	ug/L	0.380	1	45	75286	1	KED
	Cu	65	18.717	ug/L	0.250	1	22	37993	1	KED
	Zn	66	61.747	ug/L	0.381	0	41	35280	0	KED
	Zn	67	61.301	ug/L	0.369	0	8	5696	0	KED
	As	75	1.293	ug/L	0.051	3	3	379	4	KED
	Y	89		ug/L			284905	291147	2	Standard
	Kr	83		ug/L			45	42	24	Standard
>	In-1	115		ug/L			8791	8425	1	KED
	Cd	111	0.044	ug/L	0.028	62	4	17	47	KED
	Cd	114	0.045	ug/L	0.020	44	3	35	39	KED
>	In	115		ug/L			445913	430915	3	Standard
	Ag	107	0.020	ug/L	0.002	9	41	354	8	Standard
>	Tb	159		ug/L			1137421	1131978	1	Standard
	Pb	208	3.884	ug/L	0.056	1	280	317139	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0168-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:53:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	71682	1	Standard
	Cl	**37**		ug/L			6850428	6717124	4	Standard
⌈>	**Sc**	**45**		ug/L			616697	628262	2	Standard
|	**Cr**	**52**	**0.877**	ug/L	0.026	2	14221	33941	0	Standard
⌊	**Cr**	**53**	**0.973**	ug/L	0.036	3	394	2847	3	Standard
⌈>	**Ge**	**72**		ug/L			40908	40369	0	KED
|	**Ni**	**60**	**1.064**	ug/L	0.004	0	10	1575	0	KED
|	**Ni**	**62**	**1.104**	ug/L	0.082	7	5	269	7	KED
|	**Cu**	**63**	**10.101**	ug/L	0.131	1	45	41196	1	KED
|	**Cu**	**65**	**9.888**	ug/L	0.091	0	22	20654	1	KED
|	**Zn**	**66**	**61.995**	ug/L	0.871	1	41	36431	1	KED
|	**Zn**	**67**	**59.760**	ug/L	0.887	1	8	5712	2	KED
⌊	**As**	**75**	**0.273**	ug/L	0.010	3	3	85	4	KED
	Y	**89**		ug/L			284905	295923	2	Standard
	Kr	**83**		ug/L			45	45	15	Standard
⌈>	**In-1**	**115**		ug/L			8791	8686	0	KED
|	**Cd**	**111**	**0.054**	ug/L	0.012	23	4	20	18	KED
⌊	**Cd**	**114**	**0.063**	ug/L	0.020	32	3	49	31	KED
⌈>	**In**	**115**		ug/L			445913	448579	1	Standard
⌊	**Ag**	**107**	**0.022**	ug/L	0.001	3	41	399	5	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1153197	1	Standard
⌊	**Pb**	**208**	**1.995**	ug/L	0.039	1	280	166086	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLA
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:56:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	39825	0	Standard
	Cl	**37**		ug/L			6850428	6815668	2	Standard
⌈>	**Sc**	**45**		ug/L			616697	612665	2	Standard
|	**Cr**	**52**	**-0.007**	ug/L	0.016	222	14221	13971	1	Standard
⌊	**Cr**	**53**	**0.029**	ug/L	0.007	23	394	463	0	Standard
⌈>	**Ge**	**72**		ug/L			40908	39902	0	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.002	45	10	5	43	KED
|	**Ni**	**62**	**-0.007**	ug/L	0.008	108	5	3	50	KED
|	**Cu**	**63**	**0.004**	ug/L	0.002	39	45	60	11	KED
|	**Cu**	**65**	**0.004**	ug/L	0.005	105	22	31	30	KED
|	**Zn**	**66**	**0.042**	ug/L	0.006	14	41	64	5	KED
|	**Zn**	**67**	**0.029**	ug/L	0.084	288	8	10	73	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.005	219	3	3	48	KED
	Y	**89**		ug/L			284905	284921	3	Standard
	Kr	**83**		ug/L			45	38	13	Standard
⌈>	**In-1**	**115**		ug/L			8791	8563	1	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.005	283	4	4	35	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.004	54	3	8	35	KED
⌈>	**In**	**115**		ug/L			445913	437172	2	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	40	41	26	23	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1128039	0	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.002	60	280	514	26	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVG
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:00:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	39893	2	Standard
	Cl	**37**		ug/L			6850428	6720452	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	614975	2	Standard
|	**Cr**	**52**	**49.723**	ug/L	0.444	0	14221	1093781	1	Standard
⌊	**Cr**	**53**	**50.652**	ug/L	1.013	1	394	125063	1	Standard
⌈>	**Ge**	**72**		ug/L			40908	39356	0	KED
|	**Ni**	**60**	**52.673**	ug/L	0.581	1	10	75574	0	KED
|	**Ni**	**62**	**52.177**	ug/L	1.255	2	5	12144	1	KED
|	**Cu**	**63**	**53.281**	ug/L	0.786	1	45	211669	1	KED
|	**Cu**	**65**	**53.602**	ug/L	0.209	0	22	109059	0	KED
|	**Zn**	**66**	**52.271**	ug/L	0.804	1	41	29952	1	KED
|	**Zn**	**67**	**53.834**	ug/L	1.491	2	8	5016	2	KED
⌊	**As**	**75**	**51.602**	ug/L	0.789	1	3	15052	0	KED
	Y	**89**		ug/L			284905	287560	2	Standard
	Kr	**83**		ug/L			45	50	15	Standard
⌈>	**In-1**	**115**		ug/L			8791	8902	1	KED
|	**Cd**	**111**	**51.263**	ug/L	1.008	1	4	15303	0	KED
⌊	**Cd**	**114**	**51.105**	ug/L	0.266	0	3	38662	1	KED
⌈>	**In**	**115**		ug/L			445913	435481	0	Standard
⌊	**Ag**	**107**	**49.472**	ug/L	1.055	2	41	787196	1	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1116953	1	Standard
⌊	**Pb**	**208**	**56.617**	ug/L	1.006	1	280	4557625	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBG
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:06:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	39462	0	Standard
	Cl	**37**		ug/L			6850428	6839294	2	Standard
⌈>	**Sc**	**45**		ug/L			616697	606751	1	Standard
|	**Cr**	**52**	**0.011**	ug/L	0.010	86	14221	14230	1	Standard
⌊	**Cr**	**53**	**-0.049**	ug/L	0.010	20	394	268	8	Standard
⌈>	**Ge**	**72**		ug/L			40908	40804	1	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.001	70	10	6	31	KED
|	**Ni**	**62**	**-0.013**	ug/L	0.012	92	5	2	114	KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	55	45	56	11	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.001	108	22	20	9	KED
|	**Zn**	**66**	**-0.026**	ug/L	0.013	49	41	26	29	KED
|	**Zn**	**67**	**-0.053**	ug/L	0.030	56	8	3	91	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.003	106	3	3	32	KED
	Y	**89**		ug/L			284905	288490	0	Standard
	Kr	**83**		ug/L			45	36	29	Standard
⌈>	**In-1**	**115**		ug/L			8791	9293	0	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.011	273	4	3	86	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	253	3	4	67	KED
⌈>	**In**	**115**		ug/L			445913	444900	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	20	41	68	12	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1120135	0	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	71	280	240	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0177-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:10:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	60121	1	Standard
	Cl	37		ug/L			6850428	6728099	3	Standard
⌈>	Sc	45		ug/L			616697	645613	1	Standard
|	Cr	52	1.735	ug/L	0.030	1	14221	54426	0	Standard
⌊	Cr	53	1.697	ug/L	0.028	1	394	4798	0	Standard
⌈>	Ge	72		ug/L			40908	40455	0	KED
|	Ni	60	1.394	ug/L	0.040	2	10	2066	2	KED
|	Ni	62	1.572	ug/L	0.009	0	5	381	0	KED
|	Cu	63	53.429	ug/L	0.487	0	45	218177	0	KED
|	Cu	65	53.343	ug/L	0.986	1	22	111555	1	KED
|	Zn	66	42.243	ug/L	0.314	0	41	24890	0	KED
|	Zn	67	40.358	ug/L	1.174	2	8	3867	2	KED
⌊	As	75	0.317	ug/L	0.021	6	3	99	5	KED
	Y	89		ug/L			284905	288035	2	Standard
	Kr	83		ug/L			45	38	2	Standard
⌈>	In-1	115		ug/L			8791	8848	1	KED
|	Cd	111	0.012	ug/L	0.005	39	4	8	17	KED
⌊	Cd	114	0.006	ug/L	0.005	70	3	7	43	KED
⌈>	In	115		ug/L			445913	449716	1	Standard
⌊	Ag	107	0.004	ug/L	0.002	36	41	110	22	Standard
⌈>	Tb	159		ug/L			1137421	1129704	0	Standard
⌊	Pb	208	0.700	ug/L	0.001	0	280	57303	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0177-03
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:14:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	60639	0	Standard
	Cl	37		ug/L			6850428	6579340	2	Standard
>	Sc	45		ug/L			616697	655234	1	Standard
	Cr	52	1.927	ug/L	0.011	0	14221	59702	1	Standard
	Cr	53	1.891	ug/L	0.036	1	394	5379	1	Standard
>	Ge	72		ug/L			40908	40694	0	KED
	Ni	60	2.055	ug/L	0.100	4	10	3058	4	KED
	Ni	62	2.003	ug/L	0.154	7	5	487	7	KED
	Cu	63	60.985	ug/L	0.601	0	45	250501	0	KED
	Cu	65	60.685	ug/L	0.053	0	22	127667	0	KED
	Zn	66	53.611	ug/L	0.329	0	41	31765	0	KED
	Zn	67	51.866	ug/L	1.320	2	8	4998	2	KED
	As	75	0.486	ug/L	0.048	9	3	150	9	KED
	Y	89		ug/L			284905	294534	5	Standard
	Kr	83		ug/L			45	40	9	Standard
>	In-1	115		ug/L			8791	8801	1	KED
	Cd	111	0.004	ug/L	0.012	263	4	6	55	KED
	Cd	114	0.012	ug/L	0.012	104	3	11	76	KED
>	In	115		ug/L			445913	452921	1	Standard
	Ag	107	0.005	ug/L	0.001	17	41	125	12	Standard
>	Tb	159		ug/L			1137421	1143454	0	Standard
	Pb	208	0.595	ug/L	0.011	1	280	49275	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0177-05
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:17:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	59181	1	Standard
	Cl	37		ug/L			6850428	6560865	2	Standard
>	Sc	45		ug/L			616697	664945	4	Standard
	Cr	52	2.041	ug/L	0.093	4	14221	63188	1	Standard
	Cr	53	2.042	ug/L	0.075	3	394	5855	1	Standard
>	Ge	72		ug/L			40908	37435	7	KED
	Ni	60	2.317	ug/L	0.230	9	10	3155	2	KED
	Ni	62	2.438	ug/L	0.340	13	5	540	7	KED
	Cu	63	68.116	ug/L	4.925	7	45	256450	1	KED
	Cu	65	68.392	ug/L	4.565	6	22	131910	0	KED
	Zn	66	63.650	ug/L	4.211	6	41	34575	2	KED
	Zn	67	60.210	ug/L	4.867	8	8	5315	1	KED
	As	75	0.493	ug/L	0.030	6	3	140	3	KED
	Y	89		ug/L			284905	298272	1	Standard
	Kr	83		ug/L			45	34	3	Standard
>	In-1	115		ug/L			8791	8713	0	KED
	Cd	111	0.019	ug/L	0.004	21	4	10	10	KED
	Cd	114	0.015	ug/L	0.004	25	3	13	19	KED
>	In	115		ug/L			445913	454297	2	Standard
	Ag	107	0.006	ug/L	0.001	14	41	147	10	Standard
>	Tb	159		ug/L			1137421	1169613	1	Standard
	Pb	208	0.686	ug/L	0.006	0	280	58119	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0177-07
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:21:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	59713	0	Standard
	Cl	37		ug/L			6850428	6673835	2	Standard
⌈>	Sc	45		ug/L			616697	680539	1	Standard
|	Cr	52	7.031	ug/L	0.062	0	14221	184643	0	Standard
⌊	Cr	53	7.067	ug/L	0.116	1	394	19688	2	Standard
⌈>	Ge	72		ug/L			40908	39739	0	KED
|	Ni	60	5.645	ug/L	0.184	3	10	8186	2	KED
|	Ni	62	5.988	ug/L	0.275	4	5	1412	4	KED
|	Cu	63	154.335	ug/L	2.649	1	45	618951	1	KED
|	Cu	65	154.940	ug/L	0.657	0	22	318265	0	KED
|	Zn	66	118.397	ug/L	0.523	0	41	68456	0	KED
|	Zn	67	112.418	ug/L	1.600	1	8	10569	1	KED
⌊	As	75	0.837	ug/L	0.021	2	3	250	3	KED
	Y	89		ug/L			284905	313344	2	Standard
	Kr	83		ug/L			45	51	16	Standard
⌈>	In-1	115		ug/L			8791	8815	3	KED
|	Cd	111	0.575	ug/L	0.046	7	4	174	5	KED
⌊	Cd	114	0.537	ug/L	0.031	5	3	405	7	KED
⌈>	In	115		ug/L			445913	456682	0	Standard
⌊	Ag	107	0.037	ug/L	0.003	7	41	652	6	Standard
⌈>	Tb	159		ug/L			1137421	1156166	0	Standard
⌊	Pb	208	1.938	ug/L	0.013	0	280	161784	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0178-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:25:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	70345	1	Standard
	Cl	**37**		ug/L			6850428	13982003	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	600870	1	Standard
|	**Cr**	**52**	**0.552**	ug/L	0.013	2	14221	25566	2	Standard
⌊	**Cr**	**53**	**5.338**	ug/L	0.136	2	394	13225	3	Standard
⌈>	**Ge**	**72**		ug/L			40908	34981	1	KED
|	**Ni**	**60**	**0.318**	ug/L	0.011	3	10	413	1	KED
|	**Ni**	**62**	**0.342**	ug/L	0.055	16	5	75	15	KED
|	**Cu**	**63**	**10.825**	ug/L	0.088	0	45	38252	1	KED
|	**Cu**	**65**	**10.878**	ug/L	0.183	1	22	19685	1	KED
|	**Zn**	**66**	**8.688**	ug/L	0.135	1	41	4454	0	KED
|	**Zn**	**67**	**8.141**	ug/L	0.421	5	8	680	3	KED
⌊	**As**	**75**	**0.228**	ug/L	0.004	1	3	62	2	KED
	Y	**89**		ug/L			284905	283465	1	Standard
	Kr	**83**		ug/L			45	52	11	Standard
⌈>	**In-1**	**115**		ug/L			8791	7676	2	KED
|	**Cd**	**111**	**0.007**	ug/L	0.008	110	4	6	32	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.005	235	3	1	276	KED
⌈>	**In**	**115**		ug/L			445913	399080	1	Standard
⌊	**Ag**	**107**	**0.010**	ug/L	0.001	11	41	182	8	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1073515	0	Standard
⌊	**Pb**	**208**	**0.347**	ug/L	0.001	0	280	27086	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0179-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:28:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	65079	1	Standard
	Cl	37		ug/L			6850428	6403970	3	Standard
>	Sc	45		ug/L			616697	662497	2	Standard
	Cr	52	1.506	ug/L	0.036	2	14221	50490	1	Standard
	Cr	53	1.612	ug/L	0.023	1	394	4698	4	Standard
>	Ge	72		ug/L			40908	35796	2	KED
	Ni	60	3.373	ug/L	0.030	0	10	4410	1	KED
	Ni	62	3.382	ug/L	0.148	4	5	720	4	KED
	Cu	63	1.211	ug/L	0.035	2	45	4414	1	KED
	Cu	65	1.251	ug/L	0.031	2	22	2334	3	KED
	Zn	66	3.071	ug/L	0.175	5	41	1633	4	KED
	Zn	67	3.959	ug/L	0.222	5	8	342	5	KED
	As	75	1.735	ug/L	0.041	2	3	463	3	KED
	Y	89		ug/L			284905	327182	1	Standard
	Kr	83		ug/L			45	38	15	Standard
>	In-1	115		ug/L			8791	7966	1	KED
	Cd	111	0.002	ug/L	0.004	216	4	4	20	KED
	Cd	114	0.011	ug/L	0.006	54	3	10	41	KED
>	In	115		ug/L			445913	427227	2	Standard
	Ag	107	0.003	ug/L	0.000	15	41	80	10	Standard
>	Tb	159		ug/L			1137421	1104191	0	Standard
	Pb	208	0.108	ug/L	0.002	1	280	8874	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0179-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:32:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	65908	0	Standard
	Cl	**37**		ug/L			6850428	6506980	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	616989	2	Standard
|	**Cr**	**52**	**0.385**	ug/L	0.016	4	14221	22612	2	Standard
⌊	**Cr**	**53**	**0.408**	ug/L	0.024	5	394	1401	5	Standard
⌈>	**Ge**	**72**		ug/L			40908	38147	0	KED
|	**Ni**	**60**	**0.217**	ug/L	0.011	5	10	311	4	KED
|	**Ni**	**62**	**0.264**	ug/L	0.007	2	5	64	2	KED
|	**Cu**	**63**	**1.292**	ug/L	0.046	3	45	5017	3	KED
|	**Cu**	**65**	**1.298**	ug/L	0.080	6	22	2581	6	KED
|	**Zn**	**66**	**7.911**	ug/L	0.071	0	41	4426	0	KED
|	**Zn**	**67**	**7.652**	ug/L	0.132	1	8	697	1	KED
⌊	**As**	**75**	**0.448**	ug/L	0.013	2	3	130	2	KED
	Y	**89**		ug/L			284905	296052	0	Standard
	Kr	**83**		ug/L			45	40	12	Standard
⌈>	**In-1**	**115**		ug/L			8791	8470	1	KED
|	**Cd**	**111**	**0.013**	ug/L	0.005	41	4	8	17	KED
⌊	**Cd**	**114**	**0.015**	ug/L	0.006	39	3	13	29	KED
⌈>	**In**	**115**		ug/L			445913	463289	0	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	46	41	69	17	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1150592	1	Standard
⌊	**Pb**	**208**	**0.180**	ug/L	0.005	2	280	15206	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0201-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:36:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	65168	2	Standard
	Cl	**37**		ug/L			6850428	6218408	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	625462	1	Standard
|	**Cr**	**52**	**0.933**	ug/L	0.029	3	14221	35031	1	Standard
⌊	**Cr**	**53**	**0.933**	ug/L	0.027	2	394	2736	3	Standard
⌈>	**Ge**	**72**		ug/L			40908	38102	1	KED
|	**Ni**	**60**	**0.663**	ug/L	0.019	2	10	929	2	KED
|	**Ni**	**62**	**0.681**	ug/L	0.046	6	5	158	5	KED
|	**Cu**	**63**	**5.305**	ug/L	0.157	2	45	20434	1	KED
|	**Cu**	**65**	**5.312**	ug/L	0.098	1	22	10481	1	KED
|	**Zn**	**66**	**37.119**	ug/L	0.402	1	41	20603	1	KED
|	**Zn**	**67**	**34.914**	ug/L	0.420	1	8	3152	1	KED
⌊	**As**	**75**	**0.392**	ug/L	0.035	8	3	114	7	KED
	Y	**89**		ug/L			284905	302837	2	Standard
	Kr	**83**		ug/L			45	45	6	Standard
⌈>	**In-1**	**115**		ug/L			8791	8581	0	KED
|	**Cd**	**111**	**0.033**	ug/L	0.016	48	4	14	33	KED
⌊	**Cd**	**114**	**0.032**	ug/L	0.004	12	3	25	10	KED
⌈>	**In**	**115**		ug/L			445913	458615	1	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.001	11	41	128	7	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1149377	0	Standard
⌊	**Pb**	**208**	**1.457**	ug/L	0.026	1	280	120988	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0201-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:39:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	74313	1	Standard
	Cl	37		ug/L			6850428	6396494	4	Standard
>	Sc	45		ug/L			616697	728387	0	Standard
	Cr	52	0.832	ug/L	0.032	3	14221	38204	2	Standard
	Cr	53	1.126	ug/L	0.037	3	394	3750	3	Standard
>	Ge	72		ug/L			40908	36249	1	KED
	Ni	60	2.687	ug/L	0.096	3	10	3557	2	KED
	Ni	62	2.579	ug/L	0.161	6	5	557	5	KED
	Cu	63	6.589	ug/L	0.136	2	45	24138	1	KED
	Cu	65	6.491	ug/L	0.146	2	22	12179	1	KED
	Zn	66	10.399	ug/L	0.117	1	41	5517	2	KED
	Zn	67	10.489	ug/L	0.189	1	8	906	0	KED
	As	75	1.477	ug/L	0.013	0	3	400	0	KED
	Y	89		ug/L			284905	309345	2	Standard
	Kr	83		ug/L			45	38	33	Standard
>	In-1	115		ug/L			8791	8034	0	KED
	Cd	111	0.043	ug/L	0.004	9	4	15	6	KED
	Cd	114	0.038	ug/L	0.012	31	3	28	28	KED
>	In	115		ug/L			445913	424443	2	Standard
	Ag	107	0.018	ug/L	0.000	1	41	325	3	Standard
>	Tb	159		ug/L			1137421	1122427	1	Standard
	Pb	208	1.139	ug/L	0.011	0	280	92384	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLB
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:43:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	38854	2	Standard
	Cl	**37**		ug/L			6850428	6413869	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	599936	1	Standard
|	**Cr**	**52**	**0.001**	ug/L	0.005	908	14221	13845	1	Standard
⌊	**Cr**	**53**	**-0.022**	ug/L	0.006	27	394	331	5	Standard
⌈>	**Ge**	**72**		ug/L			40908	38417	0	KED
|	**Ni**	**60**	**0.002**	ug/L	0.002	67	10	12	17	KED
|	**Ni**	**62**	**-0.012**	ug/L	0.005	39	5	2	43	KED
|	**Cu**	**63**	**0.003**	ug/L	0.005	148	45	55	36	KED
|	**Cu**	**65**	**0.002**	ug/L	0.005	305	22	24	40	KED
|	**Zn**	**66**	**0.055**	ug/L	0.008	15	41	69	6	KED
|	**Zn**	**67**	**-0.008**	ug/L	0.032	376	8	6	41	KED
⌊	**As**	**75**	**-0.006**	ug/L	0.002	32	3	2	26	KED
	Y	**89**		ug/L			284905	289329	3	Standard
	Kr	**83**		ug/L			45	36	31	Standard
⌈>	**In-1**	**115**		ug/L			8791	8409	0	KED
|	**Cd**	**111**	**-0.005**	ug/L	0.007	144	4	3	62	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.005	499	3	3	103	KED
⌈>	**In**	**115**		ug/L			445913	446593	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	5	41	17	6	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1134666	1	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	13	280	435	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVH
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:47:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	38645	3	Standard
	Cl	**37**		ug/L			6850428	6420671	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	574441	6	Standard
|	**Cr**	**52**	**52.708**	ug/L	4.556	8	14221	1078095	1	Standard
⌊	**Cr**	**53**	**53.373**	ug/L	4.042	7	394	122673	0	Standard
⌈>	**Ge**	**72**		ug/L			40908	38335	2	KED
|	**Ni**	**60**	**51.709**	ug/L	0.502	0	10	72261	1	KED
|	**Ni**	**62**	**52.277**	ug/L	2.135	4	5	11846	1	KED
|	**Cu**	**63**	**52.956**	ug/L	1.489	2	45	204831	0	KED
|	**Cu**	**65**	**52.277**	ug/L	1.864	3	22	103557	1	KED
|	**Zn**	**66**	**51.319**	ug/L	0.825	1	41	28639	0	KED
|	**Zn**	**67**	**51.096**	ug/L	0.907	1	8	4637	0	KED
⌊	**As**	**75**	**50.977**	ug/L	1.033	2	3	14480	1	KED
	Y	**89**		ug/L			284905	272482	8	Standard
	Kr	**83**		ug/L			45	44	6	Standard
⌈>	**In-1**	**115**		ug/L			8791	8482	1	KED
|	**Cd**	**111**	**52.276**	ug/L	0.655	1	4	14871	1	KED
⌊	**Cd**	**114**	**53.012**	ug/L	0.889	1	3	38212	1	KED
⌈>	**In**	**115**		ug/L			445913	414845	8	Standard
⌊	**Ag**	**107**	**52.823**	ug/L	4.075	7	41	797290	1	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1070296	7	Standard
⌊	**Pb**	**208**	**60.145**	ug/L	4.260	7	280	4623746	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBH
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:53:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	37598	0	Standard
	Cl	**37**		ug/L			6850428	6484308	2	Standard
⌈>	**Sc**	**45**		ug/L			616697	609487	2	Standard
|	**Cr**	**52**	**-0.018**	ug/L	0.013	75	14221	13669	1	Standard
⌊	**Cr**	**53**	**-0.067**	ug/L	0.012	18	394	225	11	Standard
⌈>	**Ge**	**72**		ug/L			40908	39340	2	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.001	20	10	5	21	KED
|	**Ni**	**62**	**-0.005**	ug/L	0.012	263	5	4	65	KED
|	**Cu**	**63**	**0.001**	ug/L	0.000	21	45	48	2	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.001	64	22	17	16	KED
|	**Zn**	**66**	**-0.019**	ug/L	0.005	27	41	28	11	KED
|	**Zn**	**67**	**0.016**	ug/L	0.081	505	8	9	80	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.003	265	3	3	20	KED
	Y	**89**		ug/L			284905	289294	2	Standard
	Kr	**83**		ug/L			45	38	30	Standard
⌈>	**In-1**	**115**		ug/L			8791	8946	2	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.004	52	4	2	43	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.003	2071	3	2	73	KED
⌈>	**In**	**115**		ug/L			445913	445161	3	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	41	41	62	13	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1133602	1	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	46	280	245	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0203-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:57:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	63515	3	Standard
	Cl	**37**		ug/L			6850428	6524477	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	609306	1	Standard
|	**Cr**	**52**	**0.406**	ug/L	0.004	1	14221	22788	0	Standard
⌊	**Cr**	**53**	**0.330**	ug/L	0.008	2	394	1194	1	Standard
⌈>	**Ge**	**72**		ug/L			40908	39735	1	KED
|	**Ni**	**60**	**0.149**	ug/L	0.024	16	10	224	14	KED
|	**Ni**	**62**	**0.128**	ug/L	0.043	33	5	35	26	KED
|	**Cu**	**63**	**1.064**	ug/L	0.021	1	45	4308	1	KED
|	**Cu**	**65**	**1.080**	ug/L	0.046	4	22	2239	2	KED
|	**Zn**	**66**	**18.964**	ug/L	0.404	2	41	10995	1	KED
|	**Zn**	**67**	**18.120**	ug/L	0.643	3	8	1709	2	KED
⌊	**As**	**75**	**0.047**	ug/L	0.004	8	3	17	5	KED
	Y	**89**		ug/L			284905	291651	2	Standard
	Kr	**83**		ug/L			45	43	24	Standard
⌈>	**In-1**	**115**		ug/L			8791	8660	1	KED
|	**Cd**	**111**	**0.019**	ug/L	0.013	70	4	10	37	KED
⌊	**Cd**	**114**	**0.015**	ug/L	0.007	44	3	14	34	KED
⌈>	**In**	**115**		ug/L			445913	451577	0	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	42	41	63	14	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1142441	1	Standard
⌊	**Pb**	**208**	**0.190**	ug/L	0.002	1	280	15963	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0203-04
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:00:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	67371	0	Standard
	Cl	37		ug/L			6850428	6415765	3	Standard
>	Sc	45		ug/L			616697	636288	2	Standard
	Cr	52	0.923	ug/L	0.053	5	14221	35397	0	Standard
	Cr	53	0.902	ug/L	0.017	1	394	2704	3	Standard
>	Ge	72		ug/L			40908	39628	1	KED
	Ni	60	0.613	ug/L	0.034	5	10	894	5	KED
	Ni	62	0.660	ug/L	0.111	16	5	160	16	KED
	Cu	63	3.165	ug/L	0.124	3	45	12696	2	KED
	Cu	65	3.160	ug/L	0.074	2	22	6492	1	KED
	Zn	66	43.529	ug/L	1.208	2	41	25121	3	KED
	Zn	67	40.747	ug/L	1.298	3	8	3825	3	KED
	As	75	0.601	ug/L	0.022	3	3	180	2	KED
	Y	89		ug/L			284905	296294	3	Standard
	Kr	83		ug/L			45	47	31	Standard
>	In-1	115		ug/L			8791	8595	1	KED
	Cd	111	0.058	ug/L	0.005	8	4	21	5	KED
	Cd	114	0.065	ug/L	0.008	13	3	50	11	KED
>	In	115		ug/L			445913	457461	3	Standard
	Ag	107	0.003	ug/L	0.000	5	41	94	4	Standard
>	Tb	159		ug/L			1137421	1150615	0	Standard
	Pb	208	1.860	ug/L	0.009	0	280	154536	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0218-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:04:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	411591	1	Standard
	Cl	37		ug/L			6850428	5982900	4	Standard
>	Sc	45		ug/L			616697	620500	2	Standard
	Cr	52	38.842	ug/L	1.139	2	14221	865012	0	Standard
	Cr	53	38.881	ug/L	0.585	1	394	96959	0	Standard
>	Ge	72		ug/L			40908	31818	1	KED
	Ni	60	19.529	ug/L	0.292	1	10	22657	1	KED
	Ni	62	18.878	ug/L	0.442	2	5	3554	0	KED
	Cu	63	5.551	ug/L	0.018	0	45	17860	1	KED
	Cu	65	5.664	ug/L	0.059	1	22	9333	1	KED
	Zn	66	89.023	ug/L	0.810	0	41	41218	0	KED
	Zn	67	86.152	ug/L	2.666	3	8	6485	1	KED
	As	75	0.561	ug/L	0.062	11	3	135	10	KED
	Y	89		ug/L			284905	276333	1	Standard
	Kr	83		ug/L			45	52	18	Standard
>	In-1	115		ug/L			8791	7403	4	KED
	Cd	111	1.477	ug/L	0.053	3	4	370	3	KED
	Cd	114	1.521	ug/L	0.100	6	3	957	4	KED
>	In	115		ug/L			445913	398396	3	Standard
	Ag	107	0.038	ug/L	0.003	7	41	585	5	Standard
>	Tb	159		ug/L			1137421	1044908	1	Standard
	Pb	208	0.298	ug/L	0.008	2	280	22716	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0220-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:08:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	144843	2	Standard
	Cl	**37**		ug/L			6850428	6171693	4	Standard
⌈>	**Sc**	**45**		ug/L			616697	575093	3	Standard
|	**Cr**	**52**	**0.919**	ug/L	0.023	2	14221	31914	2	Standard
⌊	**Cr**	**53**	**0.728**	ug/L	0.009	1	394	2044	4	Standard
⌈>	**Ge**	**72**		ug/L			40908	35315	2	KED
|	**Ni**	**60**	**0.615**	ug/L	0.047	7	10	800	6	KED
|	**Ni**	**62**	**0.512**	ug/L	0.032	6	5	111	4	KED
|	**Cu**	**63**	**3.436**	ug/L	0.030	0	45	12285	1	KED
|	**Cu**	**65**	**3.358**	ug/L	0.072	2	22	6147	1	KED
|	**Zn**	**66**	**36.149**	ug/L	0.016	0	41	18599	2	KED
|	**Zn**	**67**	**34.403**	ug/L	0.600	1	8	2879	2	KED
⌊	**As**	**75**	**0.157**	ug/L	0.005	2	3	44	4	KED
	Y	**89**		ug/L			284905	289315	2	Standard
	Kr	**83**		ug/L			45	35	12	Standard
⌈>	**In-1**	**115**		ug/L			8791	8108	1	KED
|	**Cd**	**111**	**0.069**	ug/L	0.015	22	4	23	18	KED
⌊	**Cd**	**114**	**0.070**	ug/L	0.007	10	3	50	10	KED
⌈>	**In**	**115**		ug/L			445913	453979	2	Standard
⌊	**Ag**	**107**	**0.007**	ug/L	0.001	13	41	157	7	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1111651	0	Standard
⌊	**Pb**	**208**	**0.420**	ug/L	0.005	1	280	33956	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0221-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:11:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	63217	1	Standard
	Cl	**37**		ug/L			6850428	6132491	3	Standard
>	**Sc**	**45**		ug/L			616697	610456	2	Standard
	Cr	**52**	**0.356**	ug/L	0.024	6	14221	21747	1	Standard
	Cr	**53**	**0.364**	ug/L	0.035	9	394	1278	6	Standard
>	**Ge**	**72**		ug/L			40908	35414	1	KED
	Ni	**60**	**0.381**	ug/L	0.045	11	10	500	10	KED
	Ni	**62**	**0.413**	ug/L	0.056	13	5	91	11	KED
	Cu	**63**	**1.334**	ug/L	0.020	1	45	4807	1	KED
	Cu	**65**	**1.348**	ug/L	0.117	8	22	2486	8	KED
	Zn	**66**	**55.082**	ug/L	0.381	0	41	28400	1	KED
	Zn	**67**	**52.736**	ug/L	1.883	3	8	4421	2	KED
	As	**75**	**0.204**	ug/L	0.017	8	3	56	8	KED
	Y	**89**		ug/L			284905	295637	2	Standard
	Kr	**83**		ug/L			45	40	14	Standard
>	**In-1**	**115**		ug/L			8791	8072	1	KED
	Cd	**111**	**0.008**	ug/L	0.010	122	4	6	42	KED
	Cd	**114**	**0.010**	ug/L	0.003	31	3	9	21	KED
>	**In**	**115**		ug/L			445913	454709	0	Standard
	Ag	**107**	**0.001**	ug/L	0.001	71	41	65	24	Standard
>	**Tb**	**159**		ug/L			1137421	1121190	1	Standard
	Pb	**208**	**0.272**	ug/L	0.005	1	280	22286	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0225-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:15:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	62640	2	Standard
	Cl	37		ug/L			6850428	6899798	4	Standard
>	Sc	45		ug/L			616697	793724	1	Standard
	Cr	52	0.029	ug/L	0.005	16	14221	19102	1	Standard
	Cr	53	1.207	ug/L	0.023	1	394	4343	2	Standard
>	Ge	72		ug/L			40908	33775	0	KED
	Ni	60	0.275	ug/L	0.011	3	10	346	3	KED
	Ni	62	0.288	ug/L	0.083	28	5	62	26	KED
	Cu	63	9.370	ug/L	0.014	0	45	31976	0	KED
	Cu	65	9.565	ug/L	0.178	1	22	16716	1	KED
	Zn	66	8.728	ug/L	0.235	2	41	4320	2	KED
	Zn	67	8.304	ug/L	0.450	5	8	669	5	KED
	As	75	0.449	ug/L	0.046	10	3	115	9	KED
	Y	89		ug/L			284905	287532	4	Standard
	Kr	83		ug/L			45	39	20	Standard
>	In-1	115		ug/L			8791	7635	1	KED
	Cd	111	0.013	ug/L	0.015	108	4	7	50	KED
	Cd	114	0.017	ug/L	0.008	45	3	13	35	KED
>	In	115		ug/L			445913	432383	1	Standard
	Ag	107	0.005	ug/L	0.002	32	41	125	22	Standard
>	Tb	159		ug/L			1137421	1106851	1	Standard
	Pb	208	0.592	ug/L	0.006	1	280	47528	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0245-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:18:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	60805	1	Standard
	Cl	37		ug/L			6850428	6135415	4	Standard
>	Sc	45		ug/L			616697	594025	1	Standard
	Cr	52	0.995	ug/L	0.010	1	14221	34573	1	Standard
	Cr	53	1.066	ug/L	0.011	1	394	2914	1	Standard
>	Ge	72		ug/L			40908	36051	0	KED
	Ni	60	1.780	ug/L	0.045	2	10	2347	1	KED
	Ni	62	2.106	ug/L	0.099	4	5	453	5	KED
	Cu	63	276.260	ug/L	4.762	1	45	1005101	1	KED
	Cu	65	275.494	ug/L	1.456	0	22	513363	0	KED
	Zn	66	186.800	ug/L	0.844	0	41	97965	1	KED
	Zn	67	179.333	ug/L	3.709	2	8	15291	1	KED
	As	75	0.421	ug/L	0.023	5	3	115	5	KED
	Y	89		ug/L			284905	305336	2	Standard
	Kr	83		ug/L			45	41	12	Standard
>	In-1	115		ug/L			8791	7899	2	KED
	Cd	111	0.228	ug/L	0.025	10	4	64	10	KED
	Cd	114	0.253	ug/L	0.052	20	3	172	18	KED
>	In	115		ug/L			445913	447984	2	Standard
	Ag	107	0.008	ug/L	0.000	3	41	180	4	Standard
>	Tb	159		ug/L			1137421	1133203	1	Standard
	Pb	208	21.230	ug/L	0.327	1	280	1733935	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0245-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:22:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	63818	3	Standard
	Cl	37		ug/L			6850428	6841068	4	Standard
⌈>	Sc	45		ug/L			616697	605217	2	Standard
|	Cr	52	0.446	ug/L	0.012	2	14221	23495	2	Standard
⌊	Cr	53	1.034	ug/L	0.031	3	394	2892	3	Standard
⌈>	Ge	72		ug/L			40908	35526	1	KED
|	Ni	60	1.372	ug/L	0.078	5	10	1786	6	KED
|	Ni	62	1.497	ug/L	0.223	14	5	319	14	KED
|	Cu	63	94.289	ug/L	0.980	1	45	338088	1	KED
|	Cu	65	94.873	ug/L	0.429	0	22	174226	1	KED
|	Zn	66	113.608	ug/L	0.630	0	41	58725	1	KED
|	Zn	67	109.761	ug/L	0.227	0	8	9226	1	KED
⌊	As	75	0.378	ug/L	0.011	2	3	103	3	KED
	Y	89		ug/L			284905	291225	2	Standard
	Kr	83		ug/L			45	38	5	Standard
⌈>	In-1	115		ug/L			8791	8049	0	KED
|	Cd	111	0.124	ug/L	0.015	12	4	37	10	KED
⌊	Cd	114	0.136	ug/L	0.015	10	3	95	9	KED
⌈>	In	115		ug/L			445913	446900	1	Standard
⌊	Ag	107	0.007	ug/L	0.001	11	41	151	7	Standard
⌈>	Tb	159		ug/L			1137421	1127163	0	Standard
⌊	Pb	208	3.270	ug/L	0.030	0	280	265936	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0251-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:26:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	60014	1	Standard
	Cl	37		ug/L			6850428	6275131	2	Standard
>	Sc	45		ug/L			616697	686399	1	Standard
	Cr	52	0.259	ug/L	0.009	3	14221	22107	1	Standard
	Cr	53	0.482	ug/L	0.005	1	394	1764	0	Standard
>	Ge	72		ug/L			40908	35008	1	KED
	Ni	60	0.900	ug/L	0.018	2	10	1156	2	KED
	Ni	62	0.906	ug/L	0.121	13	5	192	12	KED
	Cu	63	2.703	ug/L	0.069	2	45	9588	2	KED
	Cu	65	2.773	ug/L	0.036	1	22	5037	2	KED
	Zn	66	8.712	ug/L	0.123	1	41	4469	1	KED
	Zn	67	8.448	ug/L	0.461	5	8	706	4	KED
	As	75	3.392	ug/L	0.122	3	3	883	2	KED
	Y	89		ug/L			284905	313652	3	Standard
	Kr	83		ug/L			45	48	16	Standard
>	In-1	115		ug/L			8791	8014	2	KED
	Cd	111	-0.002	ug/L	0.010	507	4	3	66	KED
	Cd	114	0.005	ug/L	0.005	101	3	5	51	KED
>	In	115		ug/L			445913	448062	2	Standard
	Ag	107	0.004	ug/L	0.001	29	41	106	17	Standard
>	Tb	159		ug/L			1137421	1136372	1	Standard
	Pb	208	0.096	ug/L	0.001	1	280	8120	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLC
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:29:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	36473	1	Standard
	Cl	**37**		ug/L			6850428	6265710	4	Standard
⎡>	**Sc**	**45**		ug/L			616697	576525	3	Standard
⎢	**Cr**	**52**	**-0.008**	ug/L	0.010	122	14221	13117	1	Standard
⎣	**Cr**	**53**	**-0.060**	ug/L	0.008	12	394	230	4	Standard
⎡>	**Ge**	**72**		ug/L			40908	35915	1	KED
⎢	**Ni**	**60**	**0.001**	ug/L	0.004	293	10	10	50	KED
⎢	**Ni**	**62**	**-0.006**	ug/L	0.018	313	5	3	100	KED
⎢	**Cu**	**63**	**0.032**	ug/L	0.042	130	45	156	97	KED
⎢	**Cu**	**65**	**0.029**	ug/L	0.045	156	22	73	112	KED
⎢	**Zn**	**66**	**0.090**	ug/L	0.036	40	41	83	22	KED
⎢	**Zn**	**67**	**0.078**	ug/L	0.083	105	8	13	51	KED
⎣	**As**	**75**	**-0.004**	ug/L	0.005	115	3	2	52	KED
	Y	**89**		ug/L			284905	282597	0	Standard
	Kr	**83**		ug/L			45	40	5	Standard
⎡>	**In-1**	**115**		ug/L			8791	8243	2	KED
⎢	**Cd**	**111**	**-0.002**	ug/L	0.007	290	4	3	50	KED
⎣	**Cd**	**114**	**0.002**	ug/L	0.006	250	3	4	89	KED
⎡>	**In**	**115**		ug/L			445913	444768	4	Standard
⎣	**Ag**	**107**	**-0.001**	ug/L	0.001	60	41	22	49	Standard
⎡>	**Tb**	**159**		ug/L			1137421	1099958	0	Standard
⎣	**Pb**	**208**	**0.002**	ug/L	0.000	5	280	454	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:33:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	37261	0	Standard
	Cl	**37**		ug/L			6850428	6292726	4	Standard
⌈>	**Sc**	**45**		ug/L			616697	583050	3	Standard
|	**Cr**	**52**	**49.309**	ug/L	1.044	2	14221	1028214	1	Standard
⌊	**Cr**	**53**	**50.078**	ug/L	0.697	1	394	117242	2	Standard
⌈>	**Ge**	**72**		ug/L			40908	36140	0	KED
|	**Ni**	**60**	**52.415**	ug/L	1.089	2	10	69055	1	KED
|	**Ni**	**62**	**51.827**	ug/L	1.691	3	5	11077	3	KED
|	**Cu**	**63**	**52.720**	ug/L	0.162	0	45	192321	0	KED
|	**Cu**	**65**	**52.849**	ug/L	0.798	1	22	98741	1	KED
|	**Zn**	**66**	**52.538**	ug/L	1.259	2	41	27645	2	KED
|	**Zn**	**67**	**52.498**	ug/L	1.094	2	8	4492	1	KED
⌊	**As**	**75**	**50.531**	ug/L	0.862	1	3	13535	1	KED
	Y	**89**		ug/L			284905	283872	4	Standard
	Kr	**83**		ug/L			45	39	24	Standard
⌈>	**In-1**	**115**		ug/L			8791	7964	0	KED
|	**Cd**	**111**	**54.034**	ug/L	0.668	1	4	14434	1	KED
⌊	**Cd**	**114**	**54.395**	ug/L	0.529	0	3	36814	0	KED
⌈>	**In**	**115**		ug/L			445913	437274	2	Standard
⌊	**Ag**	**107**	**48.994**	ug/L	0.463	0	41	782796	2	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1120456	1	Standard
⌊	**Pb**	**208**	**58.424**	ug/L	0.596	1	280	4718303	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:39:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	36779	2	Standard
	Cl	**37**		ug/L			6850428	6369222	4	Standard
⌈>	**Sc**	**45**		ug/L			616697	582881	1	Standard
|	**Cr**	**52**	**-0.015**	ug/L	0.014	93	14221	13137	1	Standard
⌊	**Cr**	**53**	**-0.095**	ug/L	0.006	6	394	151	7	Standard
⌈>	**Ge**	**72**		ug/L			40908	36921	2	KED
|	**Ni**	**60**	**0.002**	ug/L	0.004	171	10	12	39	KED
|	**Ni**	**62**	**-0.006**	ug/L	0.008	133	5	3	50	KED
|	**Cu**	**63**	**-0.000**	ug/L	0.005	1307	45	39	51	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.003	365	22	19	26	KED
|	**Zn**	**66**	**-0.013**	ug/L	0.009	72	41	30	16	KED
|	**Zn**	**67**	**-0.027**	ug/L	0.051	188	8	5	86	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.003	384	3	3	24	KED
	Y	**89**		ug/L			284905	289007	2	Standard
	Kr	**83**		ug/L			45	33	26	Standard
⌈>	**In-1**	**115**		ug/L			8791	8610	2	KED
|	**Cd**	**111**	**-0.010**	ug/L	0.006	66	4	1	100	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.003	64	3	6	34	KED
⌈>	**In**	**115**		ug/L			445913	445858	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	65	41	71	26	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1120212	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	100	280	345	19	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0253-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:43:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	61018	0	Standard
	Cl	**37**		ug/L			6850428	6405952	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	635360	3	Standard
|	**Cr**	**52**	**0.653**	ug/L	0.025	3	14221	29285	1	Standard
⌊	**Cr**	**53**	**0.669**	ug/L	0.021	3	394	2107	3	Standard
⌈>	**Ge**	**72**		ug/L			40908	36360	0	KED
|	**Ni**	**60**	**1.113**	ug/L	0.007	0	10	1484	0	KED
|	**Ni**	**62**	**1.131**	ug/L	0.077	6	5	248	7	KED
|	**Cu**	**63**	**4.408**	ug/L	0.105	2	45	16215	1	KED
|	**Cu**	**65**	**4.490**	ug/L	0.035	0	22	8458	0	KED
|	**Zn**	**66**	**45.741**	ug/L	1.200	2	41	24218	1	KED
|	**Zn**	**67**	**45.139**	ug/L	1.198	2	8	3887	2	KED
⌊	**As**	**75**	**0.777**	ug/L	0.048	6	3	212	6	KED
	Y	**89**		ug/L			284905	297891	1	Standard
	Kr	**83**		ug/L			45	41	16	Standard
⌈>	**In-1**	**115**		ug/L			8791	8273	5	KED
|	**Cd**	**111**	**0.067**	ug/L	0.015	22	4	23	22	KED
⌊	**Cd**	**114**	**0.065**	ug/L	0.018	27	3	48	20	KED
⌈>	**In**	**115**		ug/L			445913	446106	1	Standard
⌊	**Ag**	**107**	**0.009**	ug/L	0.006	69	41	191	54	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1113038	2	Standard
⌊	**Pb**	**208**	**0.461**	ug/L	0.005	0	280	37231	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0254-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:47:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	65539	3	Standard
	Cl	37		ug/L			6850428	6280600	4	Standard
⌈>	Sc	45		ug/L			616697	649876	1	Standard
|	Cr	52	0.224	ug/L	0.010	4	14221	20115	1	Standard
⌊	Cr	53	0.373	ug/L	0.021	5	394	1385	4	Standard
⌈>	Ge	72		ug/L			40908	36476	1	KED
|	Ni	60	0.585	ug/L	0.032	5	10	786	4	KED
|	Ni	62	0.541	ug/L	0.088	16	5	121	17	KED
|	Cu	63	4.437	ug/L	0.051	1	45	16370	0	KED
|	Cu	65	4.385	ug/L	0.051	1	22	8288	2	KED
|	Zn	66	14.796	ug/L	0.556	3	41	7881	2	KED
|	Zn	67	13.753	ug/L	0.814	5	8	1193	5	KED
⌊	As	75	0.733	ug/L	0.061	8	3	201	6	KED
	Y	89		ug/L			284905	287617	3	Standard
	Kr	83		ug/L			45	51	26	Standard
⌈>	In-1	115		ug/L			8791	8179	1	KED
|	Cd	111	0.071	ug/L	0.004	6	4	23	4	KED
⌊	Cd	114	0.059	ug/L	0.002	4	3	43	5	KED
⌈>	In	115		ug/L			445913	447232	2	Standard
⌊	Ag	107	0.000	ug/L	0.001	573	41	43	23	Standard
⌈>	Tb	159		ug/L			1137421	1138039	0	Standard
⌊	Pb	208	0.405	ug/L	0.003	0	280	33511	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0264-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:50:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	70140	1	Standard
	Cl	37		ug/L			6850428	6458846	4	Standard
⌈>	Sc	45		ug/L			616697	608190	2	Standard
|	Cr	52	0.276	ug/L	0.016	5	14221	19944	3	Standard
⌊	Cr	53	0.205	ug/L	0.015	7	394	888	1	Standard
⌈>	Ge	72		ug/L			40908	35858	0	KED
|	Ni	60	1.198	ug/L	0.019	1	10	1575	0	KED
|	Ni	62	1.243	ug/L	0.067	5	5	268	5	KED
|	Cu	63	2.483	ug/L	0.084	3	45	9021	2	KED
|	Cu	65	2.461	ug/L	0.021	0	22	4581	0	KED
|	Zn	66	1.850	ug/L	0.107	5	41	1000	4	KED
|	Zn	67	2.078	ug/L	0.417	20	8	183	19	KED
⌊	As	75	0.280	ug/L	0.031	10	3	77	11	KED
	Y	89		ug/L			284905	286686	2	Standard
	Kr	83		ug/L			45	46	38	Standard
⌈>	In-1	115		ug/L			8791	8106	2	KED
|	Cd	111	-0.002	ug/L	0.006	259	4	3	43	KED
⌊	Cd	114	0.002	ug/L	0.006	222	3	4	84	KED
⌈>	In	115		ug/L			445913	447332	2	Standard
⌊	Ag	107	0.007	ug/L	0.001	13	41	159	8	Standard
⌈>	Tb	159		ug/L			1137421	1115924	1	Standard
⌊	Pb	208	0.062	ug/L	0.001	1	280	5254	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0266-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:54:25

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	58459	3	Standard
	Cl	**37**		ug/L			6850428	6228367	4	Standard
⌈>	**Sc**	**45**		ug/L			616697	646815	2	Standard
|	**Cr**	**52**	**2.629**	ug/L	0.047	1	14221	74953	1	Standard
⌊	**Cr**	**53**	**2.823**	ug/L	0.096	3	394	7718	1	Standard
⌈>	**Ge**	**72**		ug/L			40908	36818	3	KED
|	**Ni**	**60**	**5.361**	ug/L	0.153	2	10	7200	0	KED
|	**Ni**	**62**	**5.974**	ug/L	0.069	1	5	1305	3	KED
|	**Cu**	**63**	**436.857**	ug/L	9.467	2	45	1622529	0	KED
|	**Cu**	**65**	**433.200**	ug/L	13.604	3	22	823888	0	KED
|	**Zn**	**66**	**309.297**	ug/L	2.606	0	41	165599	2	KED
|	**Zn**	**67**	**289.324**	ug/L	1.351	0	8	25191	2	KED
⌊	**As**	**75**	**0.964**	ug/L	0.067	6	3	266	3	KED
	Y	**89**		ug/L			284905	306269	1	Standard
	Kr	**83**		ug/L			45	32	17	Standard
⌈>	**In-1**	**115**		ug/L			8791	8233	0	KED
|	**Cd**	**111**	**0.258**	ug/L	0.043	16	4	75	15	KED
⌊	**Cd**	**114**	**0.287**	ug/L	0.015	5	3	203	5	KED
⌈>	**In**	**115**		ug/L			445913	444025	1	Standard
⌊	**Ag**	**107**	**0.036**	ug/L	0.002	6	41	632	4	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1138412	1	Standard
⌊	**Pb**	**208**	**22.490**	ug/L	0.446	1	280	1845291	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0278-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:58:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	60703	1	Standard
	Cl	**37**		ug/L			6850428	6332736	4	Standard
⌈>	**Sc**	**45**		ug/L			616697	608954	0	Standard
|	**Cr**	**52**	**0.320**	ug/L	0.008	2	14221	20930	1	Standard
⌊	**Cr**	**53**	**0.278**	ug/L	0.010	3	394	1067	3	Standard
⌈>	**Ge**	**72**		ug/L			40908	36368	0	KED
|	**Ni**	**60**	**0.753**	ug/L	0.015	2	10	1007	1	KED
|	**Ni**	**62**	**0.724**	ug/L	0.112	15	5	160	14	KED
|	**Cu**	**63**	**1.145**	ug/L	0.015	1	45	4243	1	KED
|	**Cu**	**65**	**1.151**	ug/L	0.028	2	22	2183	1	KED
|	**Zn**	**66**	**248.111**	ug/L	2.348	0	41	131247	0	KED
|	**Zn**	**67**	**236.250**	ug/L	3.148	1	8	20321	1	KED
⌊	**As**	**75**	**0.266**	ug/L	0.010	3	3	75	2	KED
	Y	**89**		ug/L			284905	291012	2	Standard
	Kr	**83**		ug/L			45	42	9	Standard
⌈>	**In-1**	**115**		ug/L			8791	8343	4	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.006	220	4	3	43	KED
⌊	**Cd**	**114**	**0.020**	ug/L	0.015	75	3	17	64	KED
⌈>	**In**	**115**		ug/L			445913	443690	0	Standard
⌊	**Ag**	**107**	**0.006**	ug/L	0.001	24	41	137	17	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1117151	1	Standard
⌊	**Pb**	**208**	**0.193**	ug/L	0.004	2	280	15798	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0301-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:01:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	68323	2	Standard
	Cl	**37**		ug/L			6850428	22661811	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	603513	2	Standard
|	**Cr**	**52**	**1.958**	ug/L	0.050	2	14221	55634	1	Standard
⌊	**Cr**	**53**	**16.741**	ug/L	0.173	1	394	40832	3	Standard
⌈>	**Ge**	**72**		ug/L			40908	31643	1	KED
|	**Ni**	**60**	**1.161**	ug/L	0.009	0	10	1347	1	KED
|	**Ni**	**62**	**1.260**	ug/L	0.167	13	5	240	12	KED
|	**Cu**	**63**	**5.853**	ug/L	0.113	1	45	18722	0	KED
|	**Cu**	**65**	**5.859**	ug/L	0.158	2	22	9598	1	KED
|	**Zn**	**66**	**69.215**	ug/L	1.355	1	41	31875	0	KED
|	**Zn**	**67**	**66.568**	ug/L	2.071	3	8	4986	2	KED
⌊	**As**	**75**	**0.761**	ug/L	0.052	6	3	181	7	KED
	Y	**89**		ug/L			284905	273432	1	Standard
	Kr	**83**		ug/L			45	122	8	Standard
⌈>	**In-1**	**115**		ug/L			8791	7213	0	KED
|	**Cd**	**111**	**0.060**	ug/L	0.016	26	4	18	20	KED
⌊	**Cd**	**114**	**0.038**	ug/L	0.007	18	3	26	17	KED
⌈>	**In**	**115**		ug/L			445913	386984	3	Standard
⌊	**Ag**	**107**	**0.011**	ug/L	0.002	15	41	186	10	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1048828	0	Standard
⌊	**Pb**	**208**	**2.224**	ug/L	0.040	1	280	168330	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0301-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:05:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	65097	2	Standard
	Cl	37		ug/L			6850428	6409892	3	Standard
>	Sc	45		ug/L			616697	646100	1	Standard
	Cr	52	3.441	ug/L	0.093	2	14221	93378	1	Standard
	Cr	53	4.037	ug/L	0.051	1	394	10856	2	Standard
>	Ge	72		ug/L			40908	37801	0	KED
	Ni	60	2.733	ug/L	0.040	1	10	3774	0	KED
	Ni	62	2.935	ug/L	0.145	4	5	660	4	KED
	Cu	63	9.983	ug/L	0.136	1	45	38121	0	KED
	Cu	65	10.100	ug/L	0.256	2	22	19752	2	KED
	Zn	66	224.154	ug/L	2.653	1	41	123242	0	KED
	Zn	67	213.907	ug/L	3.295	1	8	19124	1	KED
	As	75	0.534	ug/L	0.025	4	3	153	4	KED
	Y	89		ug/L			284905	313103	2	Standard
	Kr	83		ug/L			45	41	38	Standard
>	In-1	115		ug/L			8791	8315	4	KED
	Cd	111	0.121	ug/L	0.013	10	4	38	6	KED
	Cd	114	0.103	ug/L	0.022	21	3	75	22	KED
>	In	115		ug/L			445913	457686	1	Standard
	Ag	107	0.020	ug/L	0.001	6	41	370	5	Standard
>	Tb	159		ug/L			1137421	1145066	1	Standard
	Pb	208	6.342	ug/L	0.116	1	280	523658	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0368-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:08:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	70532	0	Standard
	Cl	**37**		ug/L			6850428	6380197	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	615958	2	Standard
|	**Cr**	**52**	**0.534**	ug/L	0.020	3	14221	25801	1	Standard
⌊	**Cr**	**53**	**0.567**	ug/L	0.019	3	394	1792	0	Standard
⌈>	**Ge**	**72**		ug/L			40908	38210	2	KED
|	**Ni**	**60**	**1.053**	ug/L	0.034	3	10	1474	0	KED
|	**Ni**	**62**	**1.086**	ug/L	0.095	8	5	250	9	KED
|	**Cu**	**63**	**4.718**	ug/L	0.161	3	45	18225	1	KED
|	**Cu**	**65**	**4.695**	ug/L	0.134	2	22	9288	0	KED
|	**Zn**	**66**	**15.462**	ug/L	0.437	2	41	8625	0	KED
|	**Zn**	**67**	**14.923**	ug/L	0.953	6	8	1354	5	KED
⌊	**As**	**75**	**0.191**	ug/L	0.019	10	3	57	10	KED
	Y	**89**		ug/L			284905	297806	2	Standard
	Kr	**83**		ug/L			45	29	3	Standard
⌈>	**In-1**	**115**		ug/L			8791	8494	0	KED
|	**Cd**	**111**	**0.031**	ug/L	0.012	40	4	13	25	KED
⌊	**Cd**	**114**	**0.033**	ug/L	0.016	48	3	26	42	KED
⌈>	**In**	**115**		ug/L			445913	456563	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	29	41	62	9	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1154388	0	Standard
⌊	**Pb**	**208**	**0.820**	ug/L	0.005	0	280	68535	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0368-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:12:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	205489	0	Standard
	Cl	37		ug/L			6850428	9034390	3	Standard
>	Sc	45		ug/L			616697	584867	1	Standard
	Cr	52	0.494	ug/L	0.008	1	14221	23690	2	Standard
	Cr	53	3.487	ug/L	0.028	0	394	8538	1	Standard
>	Ge	72		ug/L			40908	31379	1	KED
	Ni	60	0.165	ug/L	0.024	14	10	196	12	KED
	Ni	62	0.182	ug/L	0.049	26	5	38	21	KED
	Cu	63	15.614	ug/L	0.169	1	45	49476	1	KED
	Cu	65	15.610	ug/L	0.245	1	22	25334	1	KED
	Zn	66	8.733	ug/L	0.230	2	41	4015	1	KED
	Zn	67	8.702	ug/L	0.886	10	8	652	11	KED
	As	75	1.190	ug/L	0.046	3	3	279	2	KED
	Y	89		ug/L			284905	256281	2	Standard
	Kr	83		ug/L			45	50	21	Standard
>	In-1	115		ug/L			8791	7048	1	KED
	Cd	111	0.017	ug/L	0.003	16	4	7	6	KED
	Cd	114	0.007	ug/L	0.007	89	3	6	56	KED
>	In	115		ug/L			445913	370462	2	Standard
	Ag	107	0.003	ug/L	0.001	33	41	71	17	Standard
>	Tb	159		ug/L			1137421	985728	0	Standard
	Pb	208	1.675	ug/L	0.008	0	280	119250	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLD
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:16:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	42725	1	Standard
	Cl	**37**		ug/L			6850428	6599896	4	Standard
⌈>	**Sc**	**45**		ug/L			616697	605429	1	Standard
|	**Cr**	**52**	**0.078**	ug/L	0.020	25	14221	15623	4	Standard
⌊	**Cr**	**53**	**0.080**	ug/L	0.013	15	394	580	6	Standard
⌈>	**Ge**	**72**		ug/L			40908	38626	0	KED
|	**Ni**	**60**	**-0.001**	ug/L	0.003	339	10	8	53	KED
|	**Ni**	**62**	**-0.001**	ug/L	0.021	1395	5	5	94	KED
|	**Cu**	**63**	**0.004**	ug/L	0.003	71	45	56	17	KED
|	**Cu**	**65**	**0.005**	ug/L	0.005	98	22	31	30	KED
|	**Zn**	**66**	**0.003**	ug/L	0.011	378	41	40	15	KED
|	**Zn**	**67**	**-0.030**	ug/L	0.032	106	8	5	57	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.004	192	3	3	34	KED
	Y	**89**		ug/L			284905	289036	1	Standard
	Kr	**83**		ug/L			45	38	7	Standard
⌈>	**In-1**	**115**		ug/L			8791	8358	1	KED
|	**Cd**	**111**	**-0.005**	ug/L	0.002	36	4	3	17	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.002	33	3	6	17	KED
⌈>	**In**	**115**		ug/L			445913	449505	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	86	41	28	40	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1129588	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	73	280	355	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVJ
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:21:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	39498	1	Standard
	Cl	**37**		ug/L			6850428	6487391	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	615287	2	Standard
|	**Cr**	**52**	**49.707**	ug/L	1.314	2	14221	1093853	1	Standard
⌊	**Cr**	**53**	**50.156**	ug/L	0.721	1	394	123912	0	Standard
⌈>	**Ge**	**72**		ug/L			40908	37951	1	KED
|	**Ni**	**60**	**52.928**	ug/L	0.690	1	10	73221	0	KED
|	**Ni**	**62**	**52.374**	ug/L	1.192	2	5	11754	1	KED
|	**Cu**	**63**	**53.235**	ug/L	1.604	3	45	203862	1	KED
|	**Cu**	**65**	**53.216**	ug/L	0.852	1	22	104394	1	KED
|	**Zn**	**66**	**53.400**	ug/L	1.336	2	41	29499	0	KED
|	**Zn**	**67**	**52.611**	ug/L	0.893	1	8	4728	2	KED
⌊	**As**	**75**	**51.712**	ug/L	0.671	1	3	14544	0	KED
	Y	**89**		ug/L			284905	288000	1	Standard
	Kr	**83**		ug/L			45	39	36	Standard
⌈>	**In-1**	**115**		ug/L			8791	8498	2	KED
|	**Cd**	**111**	**52.616**	ug/L	1.740	3	4	14990	1	KED
⌊	**Cd**	**114**	**53.310**	ug/L	2.037	3	3	38476	1	KED
⌈>	**In**	**115**		ug/L			445913	440347	3	Standard
⌊	**Ag**	**107**	**49.247**	ug/L	1.831	3	41	791803	0	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1122923	3	Standard
⌊	**Pb**	**208**	**57.915**	ug/L	2.278	3	280	4682926	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBJ
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:27:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	38711	3	Standard
	Cl	**37**		ug/L			6850428	6528221	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	600736	1	Standard
|	**Cr**	**52**	**-0.003**	ug/L	0.006	196	14221	13784	2	Standard
⌊	**Cr**	**53**	**-0.052**	ug/L	0.005	9	394	259	4	Standard
⌈>	**Ge**	**72**		ug/L			40908	39005	2	KED
|	**Ni**	**60**	**0.012**	ug/L	0.013	110	10	26	67	KED
|	**Ni**	**62**	**0.013**	ug/L	0.036	280	5	8	96	KED
|	**Cu**	**63**	**0.020**	ug/L	0.031	152	45	121	97	KED
|	**Cu**	**65**	**0.024**	ug/L	0.032	136	22	68	91	KED
|	**Zn**	**66**	**0.009**	ug/L	0.070	793	41	43	87	KED
|	**Zn**	**67**	**-0.009**	ug/L	0.026	278	8	6	31	KED
⌊	**As**	**75**	**0.016**	ug/L	0.026	157	3	8	85	KED
	Y	**89**		ug/L			284905	285907	2	Standard
	Kr	**83**		ug/L			45	38	49	Standard
⌈>	**In-1**	**115**		ug/L			8791	8786	0	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.008	358	4	4	53	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.004	154	3	4	58	KED
⌈>	**In**	**115**		ug/L			445913	438947	1	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	30	41	67	10	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1101683	0	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	99	280	247	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0561-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:31:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	57024	0	Standard
	Cl	37		ug/L			6850428	6540933	2	Standard
>	Sc	45		ug/L			616697	619007	1	Standard
	Cr	52	0.060	ug/L	0.017	28	14221	15580	2	Standard
	Cr	53	-0.011	ug/L	0.002	20	394	367	2	Standard
>	Ge	72		ug/L			40908	38922	1	KED
	Ni	60	0.016	ug/L	0.003	18	10	33	13	KED
	Ni	62	0.012	ug/L	0.018	142	5	8	48	KED
	Cu	63	0.570	ug/L	0.007	1	45	2283	2	KED
	Cu	65	0.560	ug/L	0.018	3	22	1147	2	KED
	Zn	66	0.730	ug/L	0.066	9	41	452	7	KED
	Zn	67	0.708	ug/L	0.115	16	8	73	15	KED
	As	75	-0.004	ug/L	0.002	58	3	2	28	KED
	Y	89		ug/L			284905	287659	4	Standard
	Kr	83		ug/L			45	35	16	Standard
>	In-1	115		ug/L			8791	8562	0	KED
	Cd	111	0.003	ug/L	0.010	362	4	5	50	KED
	Cd	114	0.000	ug/L	0.003	651	3	3	63	KED
>	In	115		ug/L			445913	452728	4	Standard
	Ag	107	0.001	ug/L	0.002	237	41	57	60	Standard
>	Tb	159		ug/L			1137421	1123610	0	Standard
	Pb	208	0.006	ug/L	0.002	34	280	759	21	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0561-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:35:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	58819	1	Standard
	Cl	37		ug/L			6850428	6477248	3	Standard
>	Sc	45		ug/L			616697	608071	2	Standard
	Cr	52	27.064	ug/L	0.993	3	14221	594764	1	Standard
	Cr	53	27.334	ug/L	0.761	2	394	66900	1	Standard
>	Ge	72		ug/L			40908	38164	1	KED
	Ni	60	28.498	ug/L	0.089	0	10	39656	0	KED
	Ni	62	28.732	ug/L	0.550	1	5	6488	2	KED
	Cu	63	28.515	ug/L	0.171	0	45	109867	1	KED
	Cu	65	28.700	ug/L	0.198	0	22	56632	0	KED
	Zn	66	89.938	ug/L	0.768	0	41	49948	0	KED
	Zn	67	88.136	ug/L	2.120	2	8	7959	1	KED
	As	75	27.240	ug/L	0.242	0	3	7707	1	KED
	Y	89		ug/L			284905	287719	0	Standard
	Kr	83		ug/L			45	49	11	Standard
>	In-1	115		ug/L			8791	8211	1	KED
	Cd	111	28.311	ug/L	0.918	3	4	7796	1	KED
	Cd	114	28.369	ug/L	0.273	0	3	19797	1	KED
>	In	115		ug/L			445913	439767	2	Standard
	Ag	107	26.813	ug/L	0.642	2	41	430714	0	Standard
>	Tb	159		ug/L			1137421	1116334	1	Standard
	Pb	208	30.350	ug/L	0.459	1	280	2441982	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0298-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:38:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	70219	1	Standard
	Cl	37		ug/L			6850428	6410235	2	Standard
>	Sc	45		ug/L			616697	621408	2	Standard
	Cr	52	0.960	ug/L	0.002	0	14221	35392	2	Standard
	Cr	53	0.907	ug/L	0.034	3	394	2651	2	Standard
>	Ge	72		ug/L			40908	38591	0	KED
	Ni	60	0.667	ug/L	0.041	6	10	947	5	KED
	Ni	62	0.659	ug/L	0.083	12	5	155	11	KED
	Cu	63	3.022	ug/L	0.094	3	45	11811	2	KED
	Cu	65	3.014	ug/L	0.048	1	22	6033	1	KED
	Zn	66	18.742	ug/L	0.387	2	41	10555	1	KED
	Zn	67	17.815	ug/L	0.351	1	8	1633	1	KED
	As	75	0.545	ug/L	0.013	2	3	159	1	KED
	Y	89		ug/L			284905	297966	2	Standard
	Kr	83		ug/L			45	43	4	Standard
>	In-1	115		ug/L			8791	8397	1	KED
	Cd	111	0.028	ug/L	0.019	66	4	12	39	KED
	Cd	114	0.028	ug/L	0.011	38	3	22	34	KED
>	In	115		ug/L			445913	454799	2	Standard
	Ag	107	0.008	ug/L	0.001	11	41	168	6	Standard
>	Tb	159		ug/L			1137421	1155217	1	Standard
	Pb	208	4.041	ug/L	0.017	0	280	336729	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0205-02
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Wednesday, May 03, 2023 05:42:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	76896	2	Standard
	Cl	**37**		ug/L			6850428	8907350	4	Standard
⌈>	**Sc**	**45**		ug/L			616697	663452	3	Standard
|	**Cr**	**52**	**5.525**	ug/L	0.152	2	14221	144674	0	Standard
⌊	**Cr**	**53**	**7.255**	ug/L	0.129	1	394	19695	4	Standard
⌈>	**Ge**	**72**		ug/L			40908	33355	9	KED
|	**Ni**	**60**	**3.233**	ug/L	0.325	10	10	3916	4	KED
|	**Ni**	**62**	**3.400**	ug/L	0.243	7	5	672	3	KED
|	**Cu**	**63**	**12.093**	ug/L	1.177	9	45	40503	2	KED
|	**Cu**	**65**	**12.202**	ug/L	1.284	10	22	20919	1	KED
|	**Zn**	**66**	**30.223**	ug/L	2.598	8	41	14615	1	KED
|	**Zn**	**67**	**31.061**	ug/L	3.096	9	8	2441	1	KED
⌊	**As**	**75**	**1.663**	ug/L	0.135	8	3	412	1	KED
	Y	**89**		ug/L			284905	286139	1	Standard
	Kr	**83**		ug/L			45	50	8	Standard
⌈>	**In-1**	**115**		ug/L			8791	7907	2	KED
|	**Cd**	**111**	**0.047**	ug/L	0.017	36	4	16	27	KED
⌊	**Cd**	**114**	**0.031**	ug/L	0.012	37	3	23	32	KED
⌈>	**In**	**115**		ug/L			445913	420581	0	Standard
⌊	**Ag**	**107**	**0.008**	ug/L	0.001	16	41	164	12	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1122709	2	Standard
⌊	**Pb**	**208**	**0.768**	ug/L	0.019	2	280	62430	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0205-04
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:46:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	75491	1	Standard
	Cl	37		ug/L			6850428	8949085	3	Standard
>	Sc	45		ug/L			616697	657446	0	Standard
	Cr	52	6.010	ug/L	0.067	1	14221	154678	0	Standard
	Cr	53	8.264	ug/L	0.112	1	394	22170	1	Standard
>	Ge	72		ug/L			40908	36161	1	KED
	Ni	60	2.924	ug/L	0.074	2	10	3862	2	KED
	Ni	62	3.042	ug/L	0.393	12	5	654	11	KED
	Cu	63	12.153	ug/L	0.122	1	45	44395	2	KED
	Cu	65	12.108	ug/L	0.037	0	22	22650	1	KED
	Zn	66	35.431	ug/L	1.073	3	41	18662	1	KED
	Zn	67	34.284	ug/L	0.948	2	8	2938	2	KED
	As	75	1.483	ug/L	0.008	0	3	400	1	KED
	Y	89		ug/L			284905	288000	1	Standard
	Kr	83		ug/L			45	48	15	Standard
>	In-1	115		ug/L			8791	7866	1	KED
	Cd	111	0.051	ug/L	0.016	30	4	17	22	KED
	Cd	114	0.034	ug/L	0.009	26	3	25	22	KED
>	In	115		ug/L			445913	421164	2	Standard
	Ag	107	0.009	ug/L	0.001	10	41	171	7	Standard
>	Tb	159		ug/L			1137421	1100250	1	Standard
	Pb	208	0.861	ug/L	0.019	2	280	68536	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0205-06
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:50:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	74817	0	Standard
	Cl	**37**		ug/L			6850428	9139345	2	Standard
⌈>	**Sc**	**45**		ug/L			616697	679113	1	Standard
|	**Cr**	**52**	**5.649**	ug/L	0.069	1	14221	151116	1	Standard
⌊	**Cr**	**53**	**8.109**	ug/L	0.105	1	394	22478	1	Standard
⌈>	**Ge**	**72**		ug/L			40908	35736	0	KED
|	**Ni**	**60**	**3.145**	ug/L	0.102	3	10	4104	2	KED
|	**Ni**	**62**	**3.314**	ug/L	0.171	5	5	705	5	KED
|	**Cu**	**63**	**11.903**	ug/L	0.010	0	45	42966	0	KED
|	**Cu**	**65**	**11.827**	ug/L	0.234	1	22	21864	1	KED
|	**Zn**	**66**	**29.661**	ug/L	0.621	2	41	15448	1	KED
|	**Zn**	**67**	**29.896**	ug/L	0.601	2	8	2532	1	KED
⌊	**As**	**75**	**1.599**	ug/L	0.010	0	3	426	1	KED
	Y	**89**		ug/L			284905	281951	1	Standard
	Kr	**83**		ug/L			45	42	13	Standard
⌈>	**In-1**	**115**		ug/L			8791	8016	2	KED
|	**Cd**	**111**	**0.046**	ug/L	0.009	18	4	16	16	KED
⌊	**Cd**	**114**	**0.034**	ug/L	0.004	12	3	25	11	KED
⌈>	**In**	**115**		ug/L			445913	431539	1	Standard
⌊	**Ag**	**107**	**0.007**	ug/L	0.000	7	41	149	7	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1123436	2	Standard
⌊	**Pb**	**208**	**0.851**	ug/L	0.015	1	280	69169	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0206-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:53:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	74520	1	Standard
	Cl	**37**		ug/L			6850428	9162054	2	Standard
⌈>	**Sc**	**45**		ug/L			616697	667924	1	Standard
|	**Cr**	**52**	**4.510**	ug/L	0.084	1	14221	121759	2	Standard
⌊	**Cr**	**53**	**7.158**	ug/L	0.101	1	394	19563	0	Standard
⌈>	**Ge**	**72**		ug/L			40908	34976	1	KED
|	**Ni**	**60**	**2.858**	ug/L	0.115	4	10	3651	2	KED
|	**Ni**	**62**	**2.821**	ug/L	0.192	6	5	587	6	KED
|	**Cu**	**63**	**9.560**	ug/L	0.071	0	45	33780	0	KED
|	**Cu**	**65**	**9.663**	ug/L	0.100	1	22	17488	1	KED
|	**Zn**	**66**	**25.353**	ug/L	0.265	1	41	12928	0	KED
|	**Zn**	**67**	**26.456**	ug/L	0.414	1	8	2194	0	KED
⌊	**As**	**75**	**1.591**	ug/L	0.024	1	3	415	1	KED
	Y	**89**		ug/L			284905	285574	3	Standard
	Kr	**83**		ug/L			45	42	26	Standard
⌈>	**In-1**	**115**		ug/L			8791	7891	3	KED
|	**Cd**	**111**	**0.021**	ug/L	0.004	20	4	9	14	KED
⌊	**Cd**	**114**	**0.020**	ug/L	0.012	59	3	16	52	KED
⌈>	**In**	**115**		ug/L			445913	426386	1	Standard
⌊	**Ag**	**107**	**0.006**	ug/L	0.001	8	41	139	6	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1108863	1	Standard
⌊	**Pb**	**208**	**1.383**	ug/L	0.038	2	280	110762	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0206-04
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:57:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	74720	1	Standard
	Cl	37		ug/L			6850428	9124284	5	Standard
⌈>	Sc	45		ug/L			616697	663830	1	Standard
|	Cr	52	3.339	ug/L	0.092	2	14221	93559	1	Standard
⌊	Cr	53	5.869	ug/L	0.056	0	394	16020	1	Standard
⌈>	Ge	72		ug/L			40908	36432	0	KED
|	Ni	60	5.627	ug/L	0.091	1	10	7482	2	KED
|	Ni	62	5.687	ug/L	0.019	0	5	1229	0	KED
|	Cu	63	8.005	ug/L	0.088	1	45	29472	1	KED
|	Cu	65	8.032	ug/L	0.080	0	22	15145	1	KED
|	Zn	66	11.079	ug/L	0.321	2	41	5905	2	KED
|	Zn	67	12.137	ug/L	0.111	0	8	1052	0	KED
⌊	As	75	0.509	ug/L	0.064	12	3	140	11	KED
	Y	89		ug/L			284905	283668	2	Standard
	Kr	83		ug/L			45	45	14	Standard
⌈>	In-1	115		ug/L			8791	7885	1	KED
|	Cd	111	0.026	ug/L	0.009	34	4	11	19	KED
⌊	Cd	114	0.014	ug/L	0.008	55	3	12	43	KED
⌈>	In	115		ug/L			445913	426975	1	Standard
⌊	Ag	107	0.005	ug/L	0.000	8	41	125	4	Standard
⌈>	Tb	159		ug/L			1137421	1127340	0	Standard
⌊	Pb	208	0.857	ug/L	0.005	0	280	69928	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0206-06
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 06:01:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	76858	2	Standard
	Cl	**37**		ug/L			6850428	9180701	4	Standard
⌈>	**Sc**	**45**		ug/L			616697	668010	3	Standard
|	**Cr**	**52**	**4.607**	ug/L	0.067	1	14221	124034	2	Standard
⌊	**Cr**	**53**	**7.424**	ug/L	0.156	2	394	20272	2	Standard
⌈>	**Ge**	**72**		ug/L			40908	35687	1	KED
|	**Ni**	**60**	**7.330**	ug/L	0.111	1	10	9544	1	KED
|	**Ni**	**62**	**7.214**	ug/L	0.354	4	5	1526	3	KED
|	**Cu**	**63**	**9.735**	ug/L	0.079	0	45	35096	0	KED
|	**Cu**	**65**	**9.679**	ug/L	0.145	1	22	17871	1	KED
|	**Zn**	**66**	**24.892**	ug/L	0.597	2	41	12952	2	KED
|	**Zn**	**67**	**24.483**	ug/L	0.851	3	8	2072	2	KED
⌊	**As**	**75**	**1.518**	ug/L	0.109	7	3	404	5	KED
	Y	**89**		ug/L			284905	286061	1	Standard
	Kr	**83**		ug/L			45	43	37	Standard
⌈>	**In-1**	**115**		ug/L			8791	7952	1	KED
|	**Cd**	**111**	**0.010**	ug/L	0.005	51	4	6	20	KED
⌊	**Cd**	**114**	**0.017**	ug/L	0.011	62	3	14	50	KED
⌈>	**In**	**115**		ug/L			445913	427797	1	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.001	20	41	117	13	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1116511	2	Standard
⌊	**Pb**	**208**	**1.480**	ug/L	0.040	2	280	119288	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 06:04:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	39538	0	Standard
	Cl	**37**		ug/L			6850428	6631806	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	598754	2	Standard
|	**Cr**	**52**	**0.027**	ug/L	0.019	68	14221	14380	0	Standard
⌊	**Cr**	**53**	**0.266**	ug/L	0.006	2	394	1020	2	Standard
⌈>	**Ge**	**72**		ug/L			40908	37757	0	KED
|	**Ni**	**60**	**0.004**	ug/L	0.003	64	10	15	25	KED
|	**Ni**	**62**	**-0.009**	ug/L	0.005	52	5	3	34	KED
|	**Cu**	**63**	**0.008**	ug/L	0.003	39	45	70	16	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.003	250	22	19	26	KED
|	**Zn**	**66**	**-0.011**	ug/L	0.030	258	41	31	51	KED
|	**Zn**	**67**	**0.000**	ug/L	0.021	503542	8	7	25	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.002	38	3	2	24	KED
	Y	**89**		ug/L			284905	284892	3	Standard
	Kr	**83**		ug/L			45	40	31	Standard
⌈>	**In-1**	**115**		ug/L			8791	8349	1	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.005	135	4	3	41	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.001	42	3	0	210	KED
⌈>	**In**	**115**		ug/L			445913	447695	2	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	21	41	22	19	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1117686	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	199	280	295	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVK
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 06:08:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	38854	0	Standard
	Cl	**37**		ug/L			6850428	6586033	2	Standard
⌈>	**Sc**	**45**		ug/L			616697	599958	2	Standard
|	**Cr**	**52**	**50.478**	ug/L	1.132	2	14221	1082812	0	Standard
⌊	**Cr**	**53**	**51.816**	ug/L	1.300	2	394	124784	0	Standard
⌈>	**Ge**	**72**		ug/L			40908	37680	1	KED
|	**Ni**	**60**	**52.771**	ug/L	0.766	1	10	72483	0	KED
|	**Ni**	**62**	**53.289**	ug/L	1.726	3	5	11871	1	KED
|	**Cu**	**63**	**52.563**	ug/L	0.820	1	45	199891	0	KED
|	**Cu**	**65**	**53.143**	ug/L	1.732	3	22	103489	2	KED
|	**Zn**	**66**	**52.355**	ug/L	1.326	2	41	28715	0	KED
|	**Zn**	**67**	**52.281**	ug/L	0.945	1	8	4665	2	KED
⌊	**As**	**75**	**51.242**	ug/L	0.626	1	3	14309	0	KED
	Y	**89**		ug/L			284905	285607	0	Standard
	Kr	**83**		ug/L			45	58	10	Standard
⌈>	**In-1**	**115**		ug/L			8791	8373	2	KED
|	**Cd**	**111**	**51.712**	ug/L	0.267	0	4	14521	1	KED
⌊	**Cd**	**114**	**52.933**	ug/L	0.968	1	3	37655	1	KED
⌈>	**In**	**115**		ug/L			445913	433940	2	Standard
⌊	**Ag**	**107**	**49.798**	ug/L	0.988	1	41	789425	1	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1120096	1	Standard
⌊	**Pb**	**208**	**57.810**	ug/L	1.283	2	280	4666350	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBK
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 06:12:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	38682	0	Standard
	Cl	**37**		ug/L			6850428	6587171	4	Standard
>	**Sc**	**45**		ug/L			616697	569124	11	Standard
	Cr	**52**	**0.051**	ug/L	0.109	214	14221	13988	4	Standard
	Cr	**53**	**0.050**	ug/L	0.049	96	394	470	10	Standard
>	**Ge**	**72**		ug/L			40908	38105	1	KED
	Ni	**60**	**0.014**	ug/L	0.010	67	10	29	44	KED
	Ni	**62**	**0.007**	ug/L	0.005	62	5	6	15	KED
	Cu	**63**	**0.017**	ug/L	0.010	61	45	106	36	KED
	Cu	**65**	**0.012**	ug/L	0.013	111	22	45	59	KED
	Zn	**66**	**-0.006**	ug/L	0.007	110	41	34	11	KED
	Zn	**67**	**-0.029**	ug/L	0.049	171	8	5	86	KED
	As	**75**	**0.013**	ug/L	0.006	41	3	7	20	KED
	Y	**89**		ug/L			284905	266129	9	Standard
	Kr	**83**		ug/L			45	51	9	Standard
>	**In-1**	**115**		ug/L			8791	8200	1	KED
	Cd	**111**	**-0.001**	ug/L	0.009	700	4	4	58	KED
	Cd	**114**	**-0.001**	ug/L	0.004	616	3	2	124	KED
>	**In**	**115**		ug/L			445913	422747	9	Standard
	Ag	**107**	**0.025**	ug/L	0.037	148	41	387	128	Standard
>	**Tb**	**159**		ug/L			1137421	1064670	7	Standard
	Pb	**208**	**0.032**	ug/L	0.053	167	280	2491	148	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 06:15:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	41146	0	Standard
	Cl	**37**		ug/L			6850428	6480858	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	649137	1	Standard
|	**Cr**	**52**	**-0.001**	ug/L	0.005	548	14221	14946	0	Standard
⌊	**Cr**	**53**	**-0.028**	ug/L	0.012	45	394	343	9	Standard
⌈>	**Ge**	**72**		ug/L			40908	37789	0	KED
|	**Ni**	**60**	**0.001**	ug/L	0.001	91	10	11	16	KED
|	**Ni**	**62**	**-0.015**	ug/L	0.000	0	5	1		KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	59	45	52	11	KED
|	**Cu**	**65**	**0.002**	ug/L	0.003	186	22	24	27	KED
|	**Zn**	**66**	**0.001**	ug/L	0.017	1645	41	38	24	KED
|	**Zn**	**67**	**-0.028**	ug/L	0.065	228	8	5	114	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.005	230	3	3	48	KED
	Y	**89**		ug/L			284905	328513	2	Standard
	Kr	**83**		ug/L			45	43	19	Standard
⌈>	**In-1**	**115**		ug/L			8791	8717	3	KED
|	**Cd**	**111**	**0.002**	ug/L	0.002	102	4	5	10	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.003	164	3	1	100	KED
⌈>	**In**	**115**		ug/L			445913	495595	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	40	41	61	9	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1216393	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	10	280	418	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 06:19:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	40590	0	Standard
	Cl	**37**		ug/L			6850428	6476612	4	Standard
⌈>	**Sc**	**45**		ug/L			616697	651821	2	Standard
|	**Cr**	**52**	**-0.010**	ug/L	0.009	95	14221	14807	0	Standard
⌊	**Cr**	**53**	**-0.043**	ug/L	0.009	21	394	305	8	Standard
⌈>	**Ge**	**72**		ug/L			40908	37522	1	KED
|	**Ni**	**60**	**0.002**	ug/L	0.008	321	10	12	85	KED
|	**Ni**	**62**	**-0.018**	ug/L	0.010	55	5	1	173	KED
|	**Cu**	**63**	**-0.000**	ug/L	0.001	4208	45	41	14	KED
|	**Cu**	**65**	**0.004**	ug/L	0.004	105	22	27	25	KED
|	**Zn**	**66**	**0.002**	ug/L	0.011	743	41	38	17	KED
|	**Zn**	**67**	**0.023**	ug/L	0.096	416	8	9	87	KED
⌊	**As**	**75**	**-0.006**	ug/L	0.004	63	3	2	48	KED
	Y	**89**		ug/L			284905	325903	1	Standard
	Kr	**83**		ug/L			45	45	2	Standard
⌈>	**In-1**	**115**		ug/L			8791	8888	2	KED
|	**Cd**	**111**	**-0.011**	ug/L	0.005	45	4	1	91	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.001	164	3	2	46	KED
⌈>	**In**	**115**		ug/L			445913	484849	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	18	41	27	10	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1209869	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	65	280	355	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 06:23:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	40508	1	Standard
	Cl	**37**		ug/L			6850428	6458944	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	647090	2	Standard
|	**Cr**	**52**	**-0.010**	ug/L	0.007	64	14221	14683	1	Standard
⌊	**Cr**	**53**	**-0.051**	ug/L	0.005	10	394	282	4	Standard
⌈>	**Ge**	**72**		ug/L			40908	37770	1	KED
|	**Ni**	**60**	**0.000**	ug/L	0.004	3990	10	9	52	KED
|	**Ni**	**62**	**0.005**	ug/L	0.013	270	5	6	45	KED
|	**Cu**	**63**	**0.003**	ug/L	0.003	134	45	51	25	KED
|	**Cu**	**65**	**-0.000**	ug/L	0.002	3500	22	20	18	KED
|	**Zn**	**66**	**0.001**	ug/L	0.017	1377	41	38	23	KED
|	**Zn**	**67**	**0.007**	ug/L	0.053	749	8	8	58	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.005	102	3	2	52	KED
	Y	**89**		ug/L			284905	319967	2	Standard
	Kr	**83**		ug/L			45	43	16	Standard
⌈>	**In-1**	**115**		ug/L			8791	8819	1	KED
|	**Cd**	**111**	**0.001**	ug/L	0.007	732	4	5	43	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.003	108	3	4	42	KED
⌈>	**In**	**115**		ug/L			445913	492232	3	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	15	41	22	17	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1189835	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	28	280	346	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 06:27:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	38577	1	Standard
	Cl	**37**		ug/L			6850428	6446635	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	569641	1	Standard
|	**Cr**	**52**	**-0.009**	ug/L	0.018	194	14221	12944	2	Standard
⌊	**Cr**	**53**	**-0.036**	ug/L	0.012	33	394	281	11	Standard
⌈>	**Ge**	**72**		ug/L			40908	36616	1	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.002	46	10	4	49	KED
|	**Ni**	**62**	**0.003**	ug/L	0.009	314	5	5	33	KED
|	**Cu**	**63**	**-0.000**	ug/L	0.002	879	45	39	22	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.002	43	22	13	20	KED
|	**Zn**	**66**	**-0.029**	ug/L	0.005	18	41	21	13	KED
|	**Zn**	**67**	**-0.019**	ug/L	0.059	314	8	5	88	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.003	68	3	2	34	KED
	Y	**89**		ug/L			284905	269254	2	Standard
	Kr	**83**		ug/L			45	36	23	Standard
⌈>	**In-1**	**115**		ug/L			8791	8109	0	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.002	215	4	4	13	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.004	137	3	4	60	KED
⌈>	**In**	**115**		ug/L			445913	411886	0	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	35	41	18	39	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1077311	1	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	19	280	158	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 06:30:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	38851	2	Standard
	Cl	**37**		ug/L			6850428	6477016	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	558868	2	Standard
|	**Cr**	**52**	**0.009**	ug/L	0.011	120	14221	13058	0	Standard
⌊	**Cr**	**53**	**-0.033**	ug/L	0.008	25	394	283	7	Standard
⌈>	**Ge**	**72**		ug/L			40908	36678	0	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.001	53	10	6	15	KED
|	**Ni**	**62**	**-0.012**	ug/L	0.005	42	5	2	43	KED
|	**Cu**	**63**	**0.000**	ug/L	0.002	457	45	41	16	KED
|	**Cu**	**65**	**-0.000**	ug/L	0.002	524	22	19	22	KED
|	**Zn**	**66**	**-0.024**	ug/L	0.004	16	41	24	9	KED
|	**Zn**	**67**	**-0.027**	ug/L	0.046	171	8	5	78	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.003	71	3	2	28	KED
	Y	**89**		ug/L			284905	260581	0	Standard
	Kr	**83**		ug/L			45	33	8	Standard
⌈>	**In-1**	**115**		ug/L			8791	8034	1	KED
|	**Cd**	**111**	**-0.009**	ug/L	0.006	68	4	1	86	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.003	138	3	4	48	KED
⌈>	**In**	**115**		ug/L			445913	411998	2	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	72	41	25	38	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1051311	2	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	2	280	134	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 06:34:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	38271	3	Standard
	Cl	**37**		ug/L			6850428	6476685	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	555202	2	Standard
|	**Cr**	**52**	**0.008**	ug/L	0.018	222	14221	12954	1	Standard
⌊	**Cr**	**53**	**-0.049**	ug/L	0.001	1	394	246	1	Standard
⌈>	**Ge**	**72**		ug/L			40908	37042	1	KED
|	**Ni**	**60**	**-0.004**	ug/L	0.002	35	10	3	69	KED
|	**Ni**	**62**	**-0.015**	ug/L	0.000	1	5	1		KED
|	**Cu**	**63**	**-0.001**	ug/L	0.001	163	45	38	10	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.002	85	22	15	24	KED
|	**Zn**	**66**	**-0.027**	ug/L	0.003	10	41	22	8	KED
|	**Zn**	**67**	**-0.042**	ug/L	0.037	87	8	3	86	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.004	85	3	2	53	KED
	Y	**89**		ug/L			284905	257783	2	Standard
	Kr	**83**		ug/L			45	30	12	Standard
⌈>	**In-1**	**115**		ug/L			8791	8024	2	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.004	143	4	3	31	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.005	86	3	6	46	KED
⌈>	**In**	**115**		ug/L			445913	414701	2	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.001	39	41	14	61	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1048012	1	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	14	280	135	13	Standard

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Control Limt: +/- 10.00%

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00066
Sequence: SLD0370

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLD0370-ICV1	Arsenic-75a	50.000	49.3	98.6	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.1	104	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.6	105	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	53.1	106	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.6	103	ug/L	PA 6020B UCT-KE
SLD0370-CCV1	Arsenic-75a	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.6	103	ug/L	PA 6020B UCT-KE
SLD0370-CCV2	Arsenic-75a	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.8	106	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.7	103	ug/L	PA 6020B UCT-KE
SLD0370-CCV3	Arsenic-75a	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.1	104	ug/L	PA 6020B UCT-KE
SLD0370-CCV4	Arsenic-75a	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.6	105	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.7	105	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.6	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.3	103	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00066
Control Limt: +/- 10.00%
Sequence: SLD0370

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLD0370-CCV4	Zinc-67	50.000	51.3	103	ug/L	PA 6020B UCT-KE
SLD0370-CCV5	Arsenic-75a	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	53.2	106	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.2	100	ug/L	PA 6020B UCT-KE
SLD0370-CCV6	Arsenic-75a	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.9	104	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.0	104	ug/L	PA 6020B UCT-KE
SLD0370-CCV7	Arsenic-75a	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.9	104	ug/L	PA 6020B UCT-KE
SLD0370-CCV8	Arsenic-75a	50.000	49.5	99.1	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.7	99.4	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.3	101	ug/L	PA 6020B UCT-KE
SLD0370-CCV9	Arsenic-75a	50.000	49.8	99.5	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.7	103	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00066
Control Limt: +/- 10.00%
Sequence: SLD0370

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLD0370-CCV9	Zinc-66	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.4	103	ug/L	PA 6020B UCT-KE
SLD0370-CCVA	Arsenic-75a	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	53.1	106	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.1	104	ug/L	PA 6020B UCT-KE
SLD0370-CCVB	Arsenic-75a	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.4	105	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.6	105	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	53.2	106	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.5	103	ug/L	PA 6020B UCT-KE
SLD0370-CCVC	Arsenic-75a	50.000	49.3	98.6	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.8	99.7	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.0	100	ug/L	PA 6020B UCT-KE
SLD0370-CCVD	Arsenic-75a	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.4	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.0	104	ug/L	PA 6020B UCT-KE
SLD0370-CCVE	Arsenic-75a	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.4	105	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.1	104	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.0	102	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00066
Control Limt: +/- 10.00%
Sequence: SLD0370

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLD0370-CCVE	Copper-65	50.000	52.5	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.2	102	ug/L	PA 6020B UCT-KE
SLD0370-CCVF	Arsenic-75a	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.4	105	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	53.3	107	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.0	104	ug/L	PA 6020B UCT-KE
SLD0370-CCVG	Arsenic-75a	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	54.0	108	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	55.0	110	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.9	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	53.5	107	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.0	102	ug/L	PA 6020B UCT-KE
SLD0370-CCVH	Arsenic-75a	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	54.7	109	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	54.6	109	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	53.3	107	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	54.2	108	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	53.2	106	ug/L	PA 6020B UCT-KE
SLD0370-CCVI	Arsenic-75a	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	54.5	109	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	54.9	110	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.9	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	53.4	107	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.7	103	ug/L	PA 6020B UCT-KE
SLD0370-CCVJ	Arsenic-75a	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	54.8	110	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	54.4	109	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00066
Control Limt: +/- 10.00%
Sequence: SLD0370

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLD0370-CCVJ	Copper-63	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.8	106	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.3	105	ug/L	PA 6020B UCT-KE

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00073
Control Limt: +/- 10.00%
Sequence: SLD0387

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLD0387-ICV1	Arsenic-75a	50.000	48.4	96.7	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.9	99.7	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	53.4	107	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.8	106	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.4	101	ug/L	PA 6020B UCT-KE
SLD0387-CCV1	Arsenic-75a	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.4	103	ug/L	PA 6020B UCT-KE
SLD0387-CCV2	Arsenic-75a	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.8	99.7	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.0	98.0	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.3	98.7	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.1	104	ug/L	PA 6020B UCT-KE
SLD0387-CCV3	Arsenic-75a	50.000	49.7	99.3	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.1	98.2	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	48.1	96.3	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	48.5	97.0	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	48.6	97.3	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.5	103	ug/L	PA 6020B UCT-KE
SLD0387-CCV4	Arsenic-75a	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.1	98.3	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	48.4	96.9	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	48.8	97.7	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.0	104	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00073
Control Limt: +/- 10.00%
Sequence: SLD0387

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLD0387-CCV4	Zinc-67	50.000	51.6	103	ug/L	PA 6020B UCT-KE
SLD0387-CCV5	Arsenic-75a	50.000	49.9	99.9	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.3	98.6	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	48.9	97.8	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	48.5	97.0	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	48.9	97.9	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.1	104	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.7	103	ug/L	PA 6020B UCT-KE
SLD0387-CCV6	Arsenic-75a	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.3	98.7	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.5	98.9	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.7	99.3	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.5	105	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.0	102	ug/L	PA 6020B UCT-KE
SLD0387-CCV7	Arsenic-75a	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	53.5	107	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	53.3	107	ug/L	PA 6020B UCT-KE
SLD0387-CCV8	Arsenic-75a	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.3	98.6	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.2	98.4	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.8	99.5	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.6	99.2	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.0	102	ug/L	PA 6020B UCT-KE
SLD0387-CCV9	Arsenic-75a	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.0	97.9	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.1	98.2	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.4	98.7	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	48.3	96.5	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00073
Control Limt: +/- 10.00%
Sequence: SLD0387

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLD0387-CCV9	Zinc-66	50.000	49.1	98.2	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.6	101	ug/L	PA 6020B UCT-KE
SLD0387-CCVA	Arsenic-75a	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.7	99.4	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	48.2	96.3	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	48.5	97.0	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	48.9	97.9	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.6	101	ug/L	PA 6020B UCT-KE
SLD0387-CCVB	Arsenic-75a	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	48.2	96.4	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	47.3	94.6	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	48.5	97.1	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	48.7	97.5	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.5	103	ug/L	PA 6020B UCT-KE
SLD0387-CCVC	Arsenic-75a	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	48.7	97.4	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.2	98.3	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.2	98.3	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.9	99.8	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	48.0	96.1	ug/L	PA 6020B UCT-KE
SLD0387-CCVD	Arsenic-75a	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.4	98.8	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	48.7	97.3	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.5	99.1	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.6	99.2	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.3	103	ug/L	PA 6020B UCT-KE
SLD0387-CCVE	Arsenic-75a	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.7	99.5	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	48.8	97.5	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	48.7	97.4	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00073
Control Limt: +/- 10.00%
Sequence: SLD0387

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLD0387-CCVE	Copper-65	50.000	49.4	98.7	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.8	99.5	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.4	101	ug/L	PA 6020B UCT-KE
SLD0387-CCVF	Arsenic-75a	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.1	98.2	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	48.6	97.2	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	48.5	96.9	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.2	98.4	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.3	103	ug/L	PA 6020B UCT-KE
SLD0387-CCVG	Arsenic-75a	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	48.3	96.6	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	48.7	97.4	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.2	98.5	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	48.3	96.6	ug/L	PA 6020B UCT-KE
SLD0387-CCVH	Arsenic-75a	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.6	99.2	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.1	98.2	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.5	99.0	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.5	98.9	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.4	98.7	ug/L	PA 6020B UCT-KE

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00078
Control Limt: +/- 10.00%
Sequence: SLD0418

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLD0418-ICV1	Arsenic-75a	50.000	48.2	96.5	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.5	99.0	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.1	104	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.2	100	ug/L	PA 6020B UCT-KE
SLD0418-CCV1	Arsenic-75a	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.1	98.3	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.1	102	ug/L	PA 6020B UCT-KE
SLD0418-CCV2	Arsenic-75a	50.000	49.9	99.8	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.2	100	ug/L	PA 6020B UCT-KE
SLD0418-CCV3	Arsenic-75a	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.4	105	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	53.2	106	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.6	105	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.4	105	ug/L	PA 6020B UCT-KE
SLD0418-CCV4	Arsenic-75a	50.000	49.5	99.0	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.9	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.9	104	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00078
Control Limt: +/- 10.00%
Sequence: SLD0418

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLD0418-CCV4	Zinc-67	50.000	50.8	102	ug/L	PA 6020B UCT-KE
SLD0418-CCV5	Arsenic-75a	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.9	106	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.2	104	ug/L	PA 6020B UCT-KE
SLD0418-CCV6	Arsenic-75a	50.000	49.9	99.8	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.5	105	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.5	105	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.2	102	ug/L	PA 6020B UCT-KE
SLD0418-CCV7	Arsenic-75a	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.8	99.7	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.9	102	ug/L	PA 6020B UCT-KE
SLD0418-CCV8	Arsenic-75a	50.000	49.2	98.4	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.2	100	ug/L	PA 6020B UCT-KE
SLD0418-CCV9	Arsenic-75a	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.2	104	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00078
Control Limt: +/- 10.00%
Sequence: SLD0418

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLD0418-CCV9	Zinc-66	50.000	51.9	104	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.9	104	ug/L	PA 6020B UCT-KE
SLD0418-CCVA	Arsenic-75a	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.7	99.4	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.9	104	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.0	102	ug/L	PA 6020B UCT-KE
SLD0418-CCVB	Arsenic-75a	50.000	48.2	96.5	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.8	99.5	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.0	102	ug/L	PA 6020B UCT-KE
SLD0418-CCVC	Arsenic-75a	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.7	101	ug/L	PA 6020B UCT-KE
SLD0418-CCVD	Arsenic-75a	50.000	48.9	97.7	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.7	99.5	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.9	102	ug/L	PA 6020B UCT-KE
SLD0418-CCVE	Arsenic-75a	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.4	103	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00078
Control Limt: +/- 10.00%
Sequence: SLD0418

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLD0418-CCVE	Copper-65	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.5	103	ug/L	PA 6020B UCT-KE
SLD0418-CCVF	Arsenic-75a	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.8	106	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.8	106	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.2	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.9	106	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.5	103	ug/L	PA 6020B UCT-KE
SLD0418-CCVG	Arsenic-75a	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	53.5	107	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	53.8	108	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	53.4	107	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.4	105	ug/L	PA 6020B UCT-KE
SLD0418-CCVH	Arsenic-75a	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.6	105	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.7	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	53.3	107	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.3	105	ug/L	PA 6020B UCT-KE
SLD0418-CCVI	Arsenic-75a	50.000	55.7	111	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	53.5	107	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.7	105	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	58.3	117	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	57.8	116	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	56.9	114	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	58.1	116	ug/L	PA 6020B UCT-KE
SLD0418-CCVJ	Arsenic-75a	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	54.3	109	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	53.8	108	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00078
Control Limt: +/- 10.00%
Sequence: SLD0418

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLD0418-CCVJ	Copper-63	50.000	54.0	108	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	54.2	108	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	53.3	107	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.7	105	ug/L	PA 6020B UCT-KE
SLD0418-CCVK	Arsenic-75a	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	53.2	106	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	53.1	106	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.9	106	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	53.4	107	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.4	103	ug/L	PA 6020B UCT-KE
SLD0418-CCVL	Arsenic-75a	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.1	104	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	53.4	107	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	54.8	110	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.8	106	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.8	106	ug/L	PA 6020B UCT-KE
SLD0418-CCVM	Arsenic-75a	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	54.9	110	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	54.2	108	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	55.2	110	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	54.7	109	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	54.2	108	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	53.0	106	ug/L	PA 6020B UCT-KE

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00013
Control Limt: +/- 10.00%
Sequence: SLE0043

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0043-ICV1	Arsenic-75a	50.000	48.9	97.9	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.9	106	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.6	105	ug/L	PA 6020B UCT-KE
SLE0043-CCV1	Arsenic-75a	50.000	49.7	99.4	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.7	99.4	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.0	102	ug/L	PA 6020B UCT-KE
SLE0043-CCV2	Arsenic-75a	50.000	49.5	98.9	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.4	98.8	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.9	99.8	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.3	103	ug/L	PA 6020B UCT-KE
SLE0043-CCV3	Arsenic-75a	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.3	103	ug/L	PA 6020B UCT-KE
SLE0043-CCV4	Arsenic-75a	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.1	98.1	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.3	98.6	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.4	101	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00013
Control Limt: +/- 10.00%
Sequence: SLE0043

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0043-CCV4	Zinc-67	50.000	49.9	99.7	ug/L	PA 6020B UCT-KE
SLE0043-CCV5	Arsenic-75a	50.000	49.8	99.5	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.2	104	ug/L	PA 6020B UCT-KE
SLE0043-CCV6	Arsenic-75a	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.7	101	ug/L	PA 6020B UCT-KE
SLE0043-CCV7	Arsenic-75a	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.9	104	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.4	105	ug/L	PA 6020B UCT-KE
SLE0043-CCV8	Arsenic-75a	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.9	104	ug/L	PA 6020B UCT-KE
SLE0043-CCV9	Arsenic-75a	50.000	54.2	108	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	55.1	110	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	55.5	111	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00013
Control Limt: +/- 10.00%
Sequence: SLE0043

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0043-CCV9	Zinc-66	50.000	54.1	108	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	54.7	109	ug/L	PA 6020B UCT-KE
SLE0043-CCVA	Arsenic-75a	50.000	49.9	99.8	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.0	102	ug/L	PA 6020B UCT-KE
SLE0043-CCVB	Arsenic-75a	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.5	103	ug/L	PA 6020B UCT-KE
SLE0043-CCVC	Arsenic-75a	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.9	104	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.9	104	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.9	104	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.0	102	ug/L	PA 6020B UCT-KE
SLE0043-CCVD	Arsenic-75a	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.4	105	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.5	105	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.4	103	ug/L	PA 6020B UCT-KE
SLE0043-CCVE	Arsenic-75a	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	53.1	106	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	53.4	107	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.4	103	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00013
Control Limt: +/- 10.00%
Sequence: SLE0043

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0043-CCVE	Copper-65	50.000	51.9	104	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.7	101	ug/L	PA 6020B UCT-KE
SLE0043-CCVF	Arsenic-75a	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.9	106	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.7	105	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.4	105	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.4	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.8	104	ug/L	PA 6020B UCT-KE
SLE0043-CCVG	Arsenic-75a	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	53.3	107	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	53.6	107	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	53.8	108	ug/L	PA 6020B UCT-KE
SLE0043-CCVH	Arsenic-75a	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	53.0	106	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	53.0	106	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.1	102	ug/L	PA 6020B UCT-KE
SLE0043-CCVI	Arsenic-75a	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	54.0	108	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	54.4	109	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.7	105	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.8	106	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.5	105	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.5	105	ug/L	PA 6020B UCT-KE
SLE0043-CCVJ	Arsenic-75a	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.6	105	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	53.3	107	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00013
Control Limt: +/- 10.00%
Sequence: SLE0043

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0043-CCVJ	Copper-63	50.000	53.2	106	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	53.2	106	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	53.4	107	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.6	105	ug/L	PA 6020B UCT-KE
SLE0043-CCVK	Arsenic-75a	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.9	106	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.6	105	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	53.1	106	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.4	105	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.3	105	ug/L	PA 6020B UCT-KE

* Values outside of QC limits

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0370

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00066
Date Analyzed: 04/25/23 17:47

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0370-IBL1	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SLD0370-IBL1	Cadmium-111	-0.00500	0.03	0.100	ug/L	
SLD0370-IBL1	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SLD0370-IBL1	Copper-63	-0.00100	0.173	0.500	ug/L	
SLD0370-IBL1	Copper-65	-0.00100	0.35	0.500	ug/L	
SLD0370-IBL1	Zinc-66	-0.0010	2.92	6.00	ug/L	
SLD0370-IBL1	Zinc-67	0.0350	0.94	6.00	ug/L	
SLD0370-ICB1	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLD0370-ICB1	Cadmium-111	0.00100	0.03	0.100	ug/L	
SLD0370-ICB1	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SLD0370-ICB1	Copper-63	0.00100	0.173	0.500	ug/L	
SLD0370-ICB1	Copper-65	-0.00300	0.35	0.500	ug/L	
SLD0370-ICB1	Zinc-66	-0.0160	2.92	6.00	ug/L	
SLD0370-ICB1	Zinc-67	0.0240	0.94	6.00	ug/L	
SLD0370-CCB1	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLD0370-CCB1	Cadmium-111	-0.00900	0.03	0.100	ug/L	
SLD0370-CCB1	Cadmium-114	-0.00600	0.04	0.100	ug/L	
SLD0370-CCB1	Copper-63	-0.00200	0.173	0.500	ug/L	
SLD0370-CCB1	Copper-65	-0.00200	0.35	0.500	ug/L	
SLD0370-CCB1	Zinc-66	-0.0090	2.92	6.00	ug/L	
SLD0370-CCB1	Zinc-67	0.0130	0.94	6.00	ug/L	
SLD0370-IBL2	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SLD0370-IBL2	Cadmium-111	0.00500	0.03	0.100	ug/L	
SLD0370-IBL2	Cadmium-114	0.00600	0.04	0.100	ug/L	
SLD0370-IBL2	Copper-63	0.00600	0.173	0.500	ug/L	
SLD0370-IBL2	Copper-65	0.00	0.35	0.500	ug/L	
SLD0370-IBL2	Zinc-66	-0.118	2.92	6.00	ug/L	
SLD0370-IBL2	Zinc-67	-0.0910	0.94	6.00	ug/L	
SLD0370-IBL3	Arsenic-75a	0.00400	0.0373	0.200	ug/L	
SLD0370-IBL3	Cadmium-111	0.00200	0.03	0.100	ug/L	
SLD0370-IBL3	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SLD0370-IBL3	Copper-63	0.00500	0.173	0.500	ug/L	
SLD0370-IBL3	Copper-65	0.00600	0.35	0.500	ug/L	
SLD0370-IBL3	Zinc-66	-0.0950	2.92	6.00	ug/L	
SLD0370-IBL3	Zinc-67	-0.0850	0.94	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0370

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00066
Date Analyzed: 04/25/23 19:18

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0370-CCB2	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLD0370-CCB2	Cadmium-111	0.00200	0.03	0.100	ug/L	
SLD0370-CCB2	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLD0370-CCB2	Copper-63	0.00100	0.173	0.500	ug/L	
SLD0370-CCB2	Copper-65	0.00	0.35	0.500	ug/L	
SLD0370-CCB2	Zinc-66	0.0030	2.92	6.00	ug/L	
SLD0370-CCB2	Zinc-67	0.0300	0.94	6.00	ug/L	
SLD0370-IBL4	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	
SLD0370-IBL4	Cadmium-111	-0.00600	0.03	0.100	ug/L	
SLD0370-IBL4	Cadmium-114	-0.00500	0.04	0.100	ug/L	
SLD0370-IBL4	Copper-63	0.0280	0.173	0.500	ug/L	
SLD0370-IBL4	Copper-65	0.0330	0.35	0.500	ug/L	
SLD0370-IBL4	Zinc-66	0.0700	2.92	6.00	ug/L	
SLD0370-IBL4	Zinc-67	0.0710	0.94	6.00	ug/L	
SLD0370-CCB3	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLD0370-CCB3	Cadmium-111	0.00	0.03	0.100	ug/L	
SLD0370-CCB3	Cadmium-114	-0.00500	0.04	0.100	ug/L	
SLD0370-CCB3	Copper-63	-0.00200	0.173	0.500	ug/L	
SLD0370-CCB3	Copper-65	0.00200	0.35	0.500	ug/L	
SLD0370-CCB3	Zinc-66	0.0050	2.92	6.00	ug/L	
SLD0370-CCB3	Zinc-67	0.0020	0.94	6.00	ug/L	
SLD0370-IBL5	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLD0370-IBL5	Cadmium-111	-0.00700	0.03	0.100	ug/L	
SLD0370-IBL5	Cadmium-114	-0.00500	0.04	0.100	ug/L	
SLD0370-IBL5	Copper-63	0.0280	0.173	0.500	ug/L	
SLD0370-IBL5	Copper-65	0.0330	0.35	0.500	ug/L	
SLD0370-IBL5	Zinc-66	0.0940	2.92	6.00	ug/L	
SLD0370-IBL5	Zinc-67	0.0870	0.94	6.00	ug/L	
SLD0370-CCB4	Arsenic-75a	-0.00600	0.0373	0.200	ug/L	
SLD0370-CCB4	Cadmium-111	-0.00800	0.03	0.100	ug/L	
SLD0370-CCB4	Cadmium-114	-0.0100	0.04	0.100	ug/L	
SLD0370-CCB4	Copper-63	0.00100	0.173	0.500	ug/L	
SLD0370-CCB4	Copper-65	0.00	0.35	0.500	ug/L	
SLD0370-CCB4	Zinc-66	-0.0110	2.92	6.00	ug/L	
SLD0370-CCB4	Zinc-67	0.0400	0.94	6.00	ug/L	
SLD0370-IBL6	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0370

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00066
Date Analyzed: 04/25/23 22:38

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0370-IBL6	Cadmium-111	0.00	0.03	0.100	ug/L	
SLD0370-IBL6	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLD0370-IBL6	Copper-63	0.00900	0.173	0.500	ug/L	
SLD0370-IBL6	Copper-65	0.0100	0.35	0.500	ug/L	
SLD0370-IBL6	Zinc-66	-0.0440	2.92	6.00	ug/L	
SLD0370-IBL6	Zinc-67	-0.0440	0.94	6.00	ug/L	
SLD0370-CCB5	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLD0370-CCB5	Cadmium-111	-0.0110	0.03	0.100	ug/L	
SLD0370-CCB5	Cadmium-114	-0.00600	0.04	0.100	ug/L	
SLD0370-CCB5	Copper-63	0.00600	0.173	0.500	ug/L	
SLD0370-CCB5	Copper-65	0.00400	0.35	0.500	ug/L	
SLD0370-CCB5	Zinc-66	-0.0060	2.92	6.00	ug/L	
SLD0370-CCB5	Zinc-67	-0.0220	0.94	6.00	ug/L	
SLD0370-CCB6	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLD0370-CCB6	Cadmium-111	0.00600	0.03	0.100	ug/L	
SLD0370-CCB6	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLD0370-CCB6	Copper-63	0.00	0.173	0.500	ug/L	
SLD0370-CCB6	Copper-65	0.00200	0.35	0.500	ug/L	
SLD0370-CCB6	Zinc-66	0.0080	2.92	6.00	ug/L	
SLD0370-CCB6	Zinc-67	-0.0340	0.94	6.00	ug/L	
SLD0370-IBL7	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLD0370-IBL7	Cadmium-111	0.00500	0.03	0.100	ug/L	
SLD0370-IBL7	Cadmium-114	0.00500	0.04	0.100	ug/L	
SLD0370-IBL7	Copper-63	0.0150	0.173	0.500	ug/L	
SLD0370-IBL7	Copper-65	0.0140	0.35	0.500	ug/L	
SLD0370-IBL7	Zinc-66	0.0440	2.92	6.00	ug/L	
SLD0370-IBL7	Zinc-67	-0.0580	0.94	6.00	ug/L	
SLD0370-CCB7	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLD0370-CCB7	Cadmium-111	0.00100	0.03	0.100	ug/L	
SLD0370-CCB7	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLD0370-CCB7	Copper-63	-0.00100	0.173	0.500	ug/L	
SLD0370-CCB7	Copper-65	-0.00200	0.35	0.500	ug/L	
SLD0370-CCB7	Zinc-66	0.0170	2.92	6.00	ug/L	
SLD0370-CCB7	Zinc-67	-0.0530	0.94	6.00	ug/L	
SLD0370-IBL8	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLD0370-IBL8	Cadmium-111	0.00200	0.03	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0370

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00066
Date Analyzed: 04/26/23 01:05

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0370-IBL8	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLD0370-IBL8	Copper-63	0.0200	0.173	0.500	ug/L	
SLD0370-IBL8	Copper-65	0.0180	0.35	0.500	ug/L	
SLD0370-IBL8	Zinc-66	0.0180	2.92	6.00	ug/L	
SLD0370-IBL8	Zinc-67	0.0200	0.94	6.00	ug/L	
SLD0370-IBL9	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLD0370-IBL9	Cadmium-111	0.00900	0.03	0.100	ug/L	
SLD0370-IBL9	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLD0370-IBL9	Copper-63	0.0140	0.173	0.500	ug/L	
SLD0370-IBL9	Copper-65	0.0200	0.35	0.500	ug/L	
SLD0370-IBL9	Zinc-66	0.0110	2.92	6.00	ug/L	
SLD0370-IBL9	Zinc-67	-0.0110	0.94	6.00	ug/L	
SLD0370-CCB8	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLD0370-CCB8	Cadmium-111	0.00700	0.03	0.100	ug/L	
SLD0370-CCB8	Cadmium-114	0.00500	0.04	0.100	ug/L	
SLD0370-CCB8	Copper-63	0.0100	0.173	0.500	ug/L	
SLD0370-CCB8	Copper-65	0.00400	0.35	0.500	ug/L	
SLD0370-CCB8	Zinc-66	0.0240	2.92	6.00	ug/L	
SLD0370-CCB8	Zinc-67	0.0120	0.94	6.00	ug/L	
SLD0370-IBLA	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLD0370-IBLA	Cadmium-111	0.00200	0.03	0.100	ug/L	
SLD0370-IBLA	Cadmium-114	0.00500	0.04	0.100	ug/L	
SLD0370-IBLA	Copper-63	0.0110	0.173	0.500	ug/L	
SLD0370-IBLA	Copper-65	0.0100	0.35	0.500	ug/L	
SLD0370-IBLA	Zinc-66	-0.0020	2.92	6.00	ug/L	
SLD0370-IBLA	Zinc-67	-0.0440	0.94	6.00	ug/L	
SLD0370-CCB9	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLD0370-CCB9	Cadmium-111	0.00900	0.03	0.100	ug/L	
SLD0370-CCB9	Cadmium-114	0.00400	0.04	0.100	ug/L	
SLD0370-CCB9	Copper-63	0.00100	0.173	0.500	ug/L	
SLD0370-CCB9	Copper-65	0.00300	0.35	0.500	ug/L	
SLD0370-CCB9	Zinc-66	0.0480	2.92	6.00	ug/L	
SLD0370-CCB9	Zinc-67	-0.0050	0.94	6.00	ug/L	
SLD0370-CCBA	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SLD0370-CCBA	Cadmium-111	0.00900	0.03	0.100	ug/L	
SLD0370-CCBA	Cadmium-114	0.00700	0.04	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0370

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00066
Date Analyzed: 04/26/23 02:44

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0370-CCBA	Copper-63	0.00100	0.173	0.500	ug/L	
SLD0370-CCBA	Copper-65	0.00100	0.35	0.500	ug/L	
SLD0370-CCBA	Zinc-66	0.0290	2.92	6.00	ug/L	
SLD0370-CCBA	Zinc-67	0.0110	0.94	6.00	ug/L	
SLD0370-IBLB	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLD0370-IBLB	Cadmium-111	0.0110	0.03	0.100	ug/L	
SLD0370-IBLB	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLD0370-IBLB	Copper-63	0.0150	0.173	0.500	ug/L	
SLD0370-IBLB	Copper-65	0.0190	0.35	0.500	ug/L	
SLD0370-IBLB	Zinc-66	0.0020	2.92	6.00	ug/L	
SLD0370-IBLB	Zinc-67	-0.0170	0.94	6.00	ug/L	
SLD0370-IBLC	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLD0370-IBLC	Cadmium-111	0.00300	0.03	0.100	ug/L	
SLD0370-IBLC	Cadmium-114	0.00700	0.04	0.100	ug/L	
SLD0370-IBLC	Copper-63	0.0130	0.173	0.500	ug/L	
SLD0370-IBLC	Copper-65	0.0140	0.35	0.500	ug/L	
SLD0370-IBLC	Zinc-66	0.0270	2.92	6.00	ug/L	
SLD0370-IBLC	Zinc-67	0.0200	0.94	6.00	ug/L	
SLD0370-CCBB	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLD0370-CCBB	Cadmium-111	0.00400	0.03	0.100	ug/L	
SLD0370-CCBB	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLD0370-CCBB	Copper-63	0.00400	0.173	0.500	ug/L	
SLD0370-CCBB	Copper-65	0.00500	0.35	0.500	ug/L	
SLD0370-CCBB	Zinc-66	0.0910	2.92	6.00	ug/L	
SLD0370-CCBB	Zinc-67	0.0390	0.94	6.00	ug/L	
SLD0370-IBLD	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SLD0370-IBLD	Cadmium-111	0.0130	0.03	0.100	ug/L	
SLD0370-IBLD	Cadmium-114	0.0110	0.04	0.100	ug/L	
SLD0370-IBLD	Copper-63	0.0170	0.173	0.500	ug/L	
SLD0370-IBLD	Copper-65	0.0190	0.35	0.500	ug/L	
SLD0370-IBLD	Zinc-66	0.0220	2.92	6.00	ug/L	
SLD0370-IBLD	Zinc-67	-0.0180	0.94	6.00	ug/L	
SLD0370-CCBC	Arsenic-75a	0.0100	0.0373	0.200	ug/L	
SLD0370-CCBC	Cadmium-111	0.00600	0.03	0.100	ug/L	
SLD0370-CCBC	Cadmium-114	0.00900	0.04	0.100	ug/L	
SLD0370-CCBC	Copper-63	0.00600	0.173	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0370

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00066
Date Analyzed: 04/26/23 04:55

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0370-CCBC	Copper-65	0.00300	0.35	0.500	ug/L	
SLD0370-CCBC	Zinc-66	0.0670	2.92	6.00	ug/L	
SLD0370-CCBC	Zinc-67	0.0780	0.94	6.00	ug/L	
SLD0370-IBLE	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLD0370-IBLE	Cadmium-111	0.00600	0.03	0.100	ug/L	
SLD0370-IBLE	Cadmium-114	0.00600	0.04	0.100	ug/L	
SLD0370-IBLE	Copper-63	-0.00500	0.173	0.500	ug/L	
SLD0370-IBLE	Copper-65	-0.00200	0.35	0.500	ug/L	
SLD0370-IBLE	Zinc-66	-0.0980	2.92	6.00	ug/L	
SLD0370-IBLE	Zinc-67	-0.164	0.94	6.00	ug/L	
SLD0370-IBLF	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLD0370-IBLF	Cadmium-111	0.0140	0.03	0.100	ug/L	
SLD0370-IBLF	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLD0370-IBLF	Copper-63	-0.00200	0.173	0.500	ug/L	
SLD0370-IBLF	Copper-65	-0.00800	0.35	0.500	ug/L	
SLD0370-IBLF	Zinc-66	-0.0760	2.92	6.00	ug/L	
SLD0370-IBLF	Zinc-67	-0.111	0.94	6.00	ug/L	
SLD0370-CCBD	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLD0370-CCBD	Cadmium-111	0.00800	0.03	0.100	ug/L	
SLD0370-CCBD	Cadmium-114	0.00400	0.04	0.100	ug/L	
SLD0370-CCBD	Copper-63	0.00300	0.173	0.500	ug/L	
SLD0370-CCBD	Copper-65	-0.00100	0.35	0.500	ug/L	
SLD0370-CCBD	Zinc-66	0.0640	2.92	6.00	ug/L	
SLD0370-CCBD	Zinc-67	-0.0250	0.94	6.00	ug/L	
SLD0370-IBLG	Arsenic-75a	0.0100	0.0373	0.200	ug/L	
SLD0370-IBLG	Cadmium-111	0.00700	0.03	0.100	ug/L	
SLD0370-IBLG	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLD0370-IBLG	Copper-63	0.00	0.173	0.500	ug/L	
SLD0370-IBLG	Copper-65	-0.00700	0.35	0.500	ug/L	
SLD0370-IBLG	Zinc-66	-0.0840	2.92	6.00	ug/L	
SLD0370-IBLG	Zinc-67	-0.129	0.94	6.00	ug/L	
SLD0370-CCBE	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLD0370-CCBE	Cadmium-111	0.00200	0.03	0.100	ug/L	
SLD0370-CCBE	Cadmium-114	0.00600	0.04	0.100	ug/L	
SLD0370-CCBE	Copper-63	0.00200	0.173	0.500	ug/L	
SLD0370-CCBE	Copper-65	0.00600	0.35	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0370

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00066
Date Analyzed: 04/26/23 07:07

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0370-CCBE	Zinc-66	0.117	2.92	6.00	ug/L	
SLD0370-CCBE	Zinc-67	0.0280	0.94	6.00	ug/L	
SLD0370-CCBF	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SLD0370-CCBF	Cadmium-111	0.00900	0.03	0.100	ug/L	
SLD0370-CCBF	Cadmium-114	-0.00700	0.04	0.100	ug/L	
SLD0370-CCBF	Copper-63	0.00300	0.173	0.500	ug/L	
SLD0370-CCBF	Copper-65	0.00200	0.35	0.500	ug/L	
SLD0370-CCBF	Zinc-66	0.0330	2.92	6.00	ug/L	
SLD0370-CCBF	Zinc-67	0.0650	0.94	6.00	ug/L	
SLD0370-IBLH	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLD0370-IBLH	Cadmium-111	0.00700	0.03	0.100	ug/L	
SLD0370-IBLH	Cadmium-114	-0.00500	0.04	0.100	ug/L	
SLD0370-IBLH	Copper-63	0.00	0.173	0.500	ug/L	
SLD0370-IBLH	Copper-65	-0.00500	0.35	0.500	ug/L	
SLD0370-IBLH	Zinc-66	-0.134	2.92	6.00	ug/L	
SLD0370-IBLH	Zinc-67	-0.105	0.94	6.00	ug/L	
SLD0370-CCBG	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLD0370-CCBG	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLD0370-CCBG	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLD0370-CCBG	Copper-63	0.00700	0.173	0.500	ug/L	
SLD0370-CCBG	Copper-65	0.00400	0.35	0.500	ug/L	
SLD0370-CCBG	Zinc-66	0.0400	2.92	6.00	ug/L	
SLD0370-CCBG	Zinc-67	0.153	0.94	6.00	ug/L	
SLD0370-IBLI	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLD0370-IBLI	Cadmium-111	-0.00700	0.03	0.100	ug/L	
SLD0370-IBLI	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SLD0370-IBLI	Copper-63	0.00200	0.173	0.500	ug/L	
SLD0370-IBLI	Copper-65	-0.00200	0.35	0.500	ug/L	
SLD0370-IBLI	Zinc-66	-0.123	2.92	6.00	ug/L	
SLD0370-IBLI	Zinc-67	-0.0950	0.94	6.00	ug/L	
SLD0370-CCBH	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLD0370-CCBH	Cadmium-111	0.00200	0.03	0.100	ug/L	
SLD0370-CCBH	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SLD0370-CCBH	Copper-63	0.00500	0.173	0.500	ug/L	
SLD0370-CCBH	Copper-65	0.00700	0.35	0.500	ug/L	
SLD0370-CCBH	Zinc-66	0.0790	2.92	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0370

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00066
Date Analyzed: 04/26/23 09:33

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0370-CCBH	Zinc-67	0.0870	0.94	6.00	ug/L	
SLD0370-IBLJ	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLD0370-IBLJ	Cadmium-111	0.00500	0.03	0.100	ug/L	
SLD0370-IBLJ	Cadmium-114	-0.00500	0.04	0.100	ug/L	
SLD0370-IBLJ	Copper-63	0.00200	0.173	0.500	ug/L	
SLD0370-IBLJ	Copper-65	-0.00400	0.35	0.500	ug/L	
SLD0370-IBLJ	Zinc-66	-0.114	2.92	6.00	ug/L	
SLD0370-IBLJ	Zinc-67	-0.0600	0.94	6.00	ug/L	
SLD0370-CCBI	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLD0370-CCBI	Cadmium-111	0.00400	0.03	0.100	ug/L	
SLD0370-CCBI	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SLD0370-CCBI	Copper-63	0.00700	0.173	0.500	ug/L	
SLD0370-CCBI	Copper-65	0.00500	0.35	0.500	ug/L	
SLD0370-CCBI	Zinc-66	0.0980	2.92	6.00	ug/L	
SLD0370-CCBI	Zinc-67	0.0880	0.94	6.00	ug/L	
SLD0370-IBLK	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLD0370-IBLK	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLD0370-IBLK	Cadmium-114	-0.00600	0.04	0.100	ug/L	
SLD0370-IBLK	Copper-63	-0.00200	0.173	0.500	ug/L	
SLD0370-IBLK	Copper-65	-0.00600	0.35	0.500	ug/L	
SLD0370-IBLK	Zinc-66	-0.128	2.92	6.00	ug/L	
SLD0370-IBLK	Zinc-67	-0.0610	0.94	6.00	ug/L	
SLD0370-CCBJ	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLD0370-CCBJ	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLD0370-CCBJ	Cadmium-114	0.00	0.04	0.100	ug/L	
SLD0370-CCBJ	Copper-63	0.00700	0.173	0.500	ug/L	
SLD0370-CCBJ	Copper-65	0.00400	0.35	0.500	ug/L	
SLD0370-CCBJ	Zinc-66	0.0740	2.92	6.00	ug/L	
SLD0370-CCBJ	Zinc-67	0.0640	0.94	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0387

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00073
Date Analyzed: 04/26/23 15:49

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0387-IBL1	Arsenic-75a	0.00900	0.0373	0.200	ug/L	
SLD0387-IBL1	Cadmium-111	0.00	0.03	0.100	ug/L	
SLD0387-IBL1	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLD0387-IBL1	Copper-63	0.00400	0.173	0.500	ug/L	
SLD0387-IBL1	Copper-65	-0.00300	0.35	0.500	ug/L	
SLD0387-IBL1	Zinc-66	0.0200	2.92	6.00	ug/L	
SLD0387-IBL1	Zinc-67	0.0090	0.94	6.00	ug/L	
SLD0387-ICB1	Arsenic-75a	0.0100	0.0373	0.200	ug/L	
SLD0387-ICB1	Cadmium-111	0.00400	0.03	0.100	ug/L	
SLD0387-ICB1	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLD0387-ICB1	Copper-63	0.00400	0.173	0.500	ug/L	
SLD0387-ICB1	Copper-65	0.00500	0.35	0.500	ug/L	
SLD0387-ICB1	Zinc-66	0.0120	2.92	6.00	ug/L	
SLD0387-ICB1	Zinc-67	0.0030	0.94	6.00	ug/L	
SLD0387-CCB1	Arsenic-75a	0.0300	0.0373	0.200	ug/L	
SLD0387-CCB1	Cadmium-111	0.00300	0.03	0.100	ug/L	
SLD0387-CCB1	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLD0387-CCB1	Copper-63	0.0290	0.173	0.500	ug/L	
SLD0387-CCB1	Copper-65	0.0200	0.35	0.500	ug/L	
SLD0387-CCB1	Zinc-66	0.0230	2.92	6.00	ug/L	
SLD0387-CCB1	Zinc-67	0.0850	0.94	6.00	ug/L	
SLD0387-IBL2	Arsenic-75a	0.0140	0.0373	0.200	ug/L	
SLD0387-IBL2	Cadmium-111	0.00600	0.03	0.100	ug/L	
SLD0387-IBL2	Cadmium-114	0.00700	0.04	0.100	ug/L	
SLD0387-IBL2	Copper-63	0.00800	0.173	0.500	ug/L	
SLD0387-IBL2	Copper-65	0.00600	0.35	0.500	ug/L	
SLD0387-IBL2	Zinc-66	0.118	2.92	6.00	ug/L	
SLD0387-IBL2	Zinc-67	0.147	0.94	6.00	ug/L	
SLD0387-CCB2	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLD0387-CCB2	Cadmium-111	0.0160	0.03	0.100	ug/L	
SLD0387-CCB2	Cadmium-114	0.00600	0.04	0.100	ug/L	
SLD0387-CCB2	Copper-63	0.00400	0.173	0.500	ug/L	
SLD0387-CCB2	Copper-65	0.00400	0.35	0.500	ug/L	
SLD0387-CCB2	Zinc-66	0.0100	2.92	6.00	ug/L	
SLD0387-CCB2	Zinc-67	0.0520	0.94	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0387

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00073
Date Analyzed: 04/26/23 17:29

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0387-CCB3	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLD0387-CCB3	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SLD0387-CCB3	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLD0387-CCB3	Copper-63	0.00500	0.173	0.500	ug/L	
SLD0387-CCB3	Copper-65	0.00100	0.35	0.500	ug/L	
SLD0387-CCB3	Zinc-66	0.0230	2.92	6.00	ug/L	
SLD0387-CCB3	Zinc-67	-0.0240	0.94	6.00	ug/L	
SLD0387-IBL3	Arsenic-75a	0.0610	0.0373	0.200	ug/L	
SLD0387-IBL3	Cadmium-111	0.0370	0.03	0.100	ug/L	
SLD0387-IBL3	Cadmium-114	0.0390	0.04	0.100	ug/L	
SLD0387-IBL3	Copper-63	0.0640	0.173	0.500	ug/L	
SLD0387-IBL3	Copper-65	0.0510	0.35	0.500	ug/L	
SLD0387-IBL3	Zinc-66	0.184	2.92	6.00	ug/L	
SLD0387-IBL3	Zinc-67	0.122	0.94	6.00	ug/L	
SLD0387-CCB4	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLD0387-CCB4	Cadmium-111	0.0200	0.03	0.100	ug/L	
SLD0387-CCB4	Cadmium-114	0.00700	0.04	0.100	ug/L	
SLD0387-CCB4	Copper-63	0.00200	0.173	0.500	ug/L	
SLD0387-CCB4	Copper-65	0.00100	0.35	0.500	ug/L	
SLD0387-CCB4	Zinc-66	0.0170	2.92	6.00	ug/L	
SLD0387-CCB4	Zinc-67	-0.0240	0.94	6.00	ug/L	
SLD0387-IBL4	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLD0387-IBL4	Cadmium-111	-0.00600	0.03	0.100	ug/L	
SLD0387-IBL4	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLD0387-IBL4	Copper-63	0.00400	0.173	0.500	ug/L	
SLD0387-IBL4	Copper-65	-0.00200	0.35	0.500	ug/L	
SLD0387-IBL4	Zinc-66	0.0440	2.92	6.00	ug/L	
SLD0387-IBL4	Zinc-67	0.0070	0.94	6.00	ug/L	
SLD0387-CCB5	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLD0387-CCB5	Cadmium-111	0.00	0.03	0.100	ug/L	
SLD0387-CCB5	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLD0387-CCB5	Copper-63	0.00	0.173	0.500	ug/L	
SLD0387-CCB5	Copper-65	-0.00100	0.35	0.500	ug/L	
SLD0387-CCB5	Zinc-66	0.0160	2.92	6.00	ug/L	
SLD0387-CCB5	Zinc-67	-0.0190	0.94	6.00	ug/L	
SLD0387-IBL5	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0387

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00073
Date Analyzed: 04/26/23 20:17

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0387-IBL5	Cadmium-111	0.00400	0.03	0.100	ug/L	
SLD0387-IBL5	Cadmium-114	0.00	0.04	0.100	ug/L	
SLD0387-IBL5	Copper-63	0.00300	0.173	0.500	ug/L	
SLD0387-IBL5	Copper-65	0.00	0.35	0.500	ug/L	
SLD0387-IBL5	Zinc-66	0.0520	2.92	6.00	ug/L	
SLD0387-IBL5	Zinc-67	0.0160	0.94	6.00	ug/L	
SLD0387-CCB6	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLD0387-CCB6	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SLD0387-CCB6	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLD0387-CCB6	Copper-63	0.00400	0.173	0.500	ug/L	
SLD0387-CCB6	Copper-65	-0.00100	0.35	0.500	ug/L	
SLD0387-CCB6	Zinc-66	0.0070	2.92	6.00	ug/L	
SLD0387-CCB6	Zinc-67	-0.0070	0.94	6.00	ug/L	
SLD0387-IBL6	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SLD0387-IBL6	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLD0387-IBL6	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SLD0387-IBL6	Copper-63	0.00100	0.173	0.500	ug/L	
SLD0387-IBL6	Copper-65	-0.00100	0.35	0.500	ug/L	
SLD0387-IBL6	Zinc-66	0.0700	2.92	6.00	ug/L	
SLD0387-IBL6	Zinc-67	0.0500	0.94	6.00	ug/L	
SLD0387-CCB7	Arsenic-75a	-0.00700	0.0373	0.200	ug/L	
SLD0387-CCB7	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SLD0387-CCB7	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLD0387-CCB7	Copper-63	0.00500	0.173	0.500	ug/L	
SLD0387-CCB7	Copper-65	0.00	0.35	0.500	ug/L	
SLD0387-CCB7	Zinc-66	0.0140	2.92	6.00	ug/L	
SLD0387-CCB7	Zinc-67	-0.0130	0.94	6.00	ug/L	
SLD0387-CCB8	Arsenic-75a	0.0290	0.0373	0.200	ug/L	
SLD0387-CCB8	Cadmium-111	-0.00500	0.03	0.100	ug/L	
SLD0387-CCB8	Cadmium-114	0.00	0.04	0.100	ug/L	
SLD0387-CCB8	Copper-63	0.0190	0.173	0.500	ug/L	
SLD0387-CCB8	Copper-65	0.0260	0.35	0.500	ug/L	
SLD0387-CCB8	Zinc-66	0.0150	2.92	6.00	ug/L	
SLD0387-CCB8	Zinc-67	0.0360	0.94	6.00	ug/L	
SLD0387-IBL7	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLD0387-IBL7	Cadmium-111	-0.00800	0.03	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0387

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00073
Date Analyzed: 04/26/23 22:50

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0387-IBL7	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLD0387-IBL7	Copper-63	-0.00100	0.173	0.500	ug/L	
SLD0387-IBL7	Copper-65	0.00100	0.35	0.500	ug/L	
SLD0387-IBL7	Zinc-66	0.0100	2.92	6.00	ug/L	
SLD0387-IBL7	Zinc-67	0.0120	0.94	6.00	ug/L	
SLD0387-CCB9	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLD0387-CCB9	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLD0387-CCB9	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLD0387-CCB9	Copper-63	0.00100	0.173	0.500	ug/L	
SLD0387-CCB9	Copper-65	0.00	0.35	0.500	ug/L	
SLD0387-CCB9	Zinc-66	0.0010	2.92	6.00	ug/L	
SLD0387-CCB9	Zinc-67	0.0120	0.94	6.00	ug/L	
SLD0387-IBL8	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLD0387-IBL8	Cadmium-111	-0.00800	0.03	0.100	ug/L	
SLD0387-IBL8	Cadmium-114	0.00500	0.04	0.100	ug/L	
SLD0387-IBL8	Copper-63	0.00200	0.173	0.500	ug/L	
SLD0387-IBL8	Copper-65	0.00100	0.35	0.500	ug/L	
SLD0387-IBL8	Zinc-66	-0.0100	2.92	6.00	ug/L	
SLD0387-IBL8	Zinc-67	-0.0170	0.94	6.00	ug/L	
SLD0387-CCBA	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLD0387-CCBA	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLD0387-CCBA	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLD0387-CCBA	Copper-63	0.00100	0.173	0.500	ug/L	
SLD0387-CCBA	Copper-65	0.00200	0.35	0.500	ug/L	
SLD0387-CCBA	Zinc-66	0.0340	2.92	6.00	ug/L	
SLD0387-CCBA	Zinc-67	0.0900	0.94	6.00	ug/L	
SLD0387-IBL9	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SLD0387-IBL9	Cadmium-111	0.00100	0.03	0.100	ug/L	
SLD0387-IBL9	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLD0387-IBL9	Copper-63	0.00	0.173	0.500	ug/L	
SLD0387-IBL9	Copper-65	0.00100	0.35	0.500	ug/L	
SLD0387-IBL9	Zinc-66	0.0370	2.92	6.00	ug/L	
SLD0387-IBL9	Zinc-67	0.0180	0.94	6.00	ug/L	
SLD0387-CCBB	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLD0387-CCBB	Cadmium-111	0.00200	0.03	0.100	ug/L	
SLD0387-CCBB	Cadmium-114	0.00	0.04	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0387

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00073
Date Analyzed: 04/27/23 01:03

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0387-CCBB	Copper-63	0.00100	0.173	0.500	ug/L	
SLD0387-CCBB	Copper-65	0.00200	0.35	0.500	ug/L	
SLD0387-CCBB	Zinc-66	0.0440	2.92	6.00	ug/L	
SLD0387-CCBB	Zinc-67	0.0110	0.94	6.00	ug/L	
SLD0387-IBLA	Arsenic-75a	0.00400	0.0373	0.200	ug/L	
SLD0387-IBLA	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLD0387-IBLA	Cadmium-114	0.00600	0.04	0.100	ug/L	
SLD0387-IBLA	Copper-63	-0.00100	0.173	0.500	ug/L	
SLD0387-IBLA	Copper-65	0.00300	0.35	0.500	ug/L	
SLD0387-IBLA	Zinc-66	0.0380	2.92	6.00	ug/L	
SLD0387-IBLA	Zinc-67	0.0480	0.94	6.00	ug/L	
SLD0387-CCBC	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLD0387-CCBC	Cadmium-111	-0.00600	0.03	0.100	ug/L	
SLD0387-CCBC	Cadmium-114	0.00900	0.04	0.100	ug/L	
SLD0387-CCBC	Copper-63	0.00300	0.173	0.500	ug/L	
SLD0387-CCBC	Copper-65	0.00300	0.35	0.500	ug/L	
SLD0387-CCBC	Zinc-66	0.0190	2.92	6.00	ug/L	
SLD0387-CCBC	Zinc-67	0.0510	0.94	6.00	ug/L	
SLD0387-IBLB	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLD0387-IBLB	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLD0387-IBLB	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLD0387-IBLB	Copper-63	0.00200	0.173	0.500	ug/L	
SLD0387-IBLB	Copper-65	-0.00100	0.35	0.500	ug/L	
SLD0387-IBLB	Zinc-66	0.0120	2.92	6.00	ug/L	
SLD0387-IBLB	Zinc-67	-0.0010	0.94	6.00	ug/L	
SLD0387-IBLC	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLD0387-IBLC	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLD0387-IBLC	Cadmium-114	0.00600	0.04	0.100	ug/L	
SLD0387-IBLC	Copper-63	0.00400	0.173	0.500	ug/L	
SLD0387-IBLC	Copper-65	0.00200	0.35	0.500	ug/L	
SLD0387-IBLC	Zinc-66	0.0160	2.92	6.00	ug/L	
SLD0387-IBLC	Zinc-67	0.0140	0.94	6.00	ug/L	
SLD0387-CCBD	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLD0387-CCBD	Cadmium-111	-0.00700	0.03	0.100	ug/L	
SLD0387-CCBD	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLD0387-CCBD	Copper-63	0.00200	0.173	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0387

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00073
Date Analyzed: 04/27/23 03:10

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0387-CCBD	Copper-65	0.00600	0.35	0.500	ug/L	
SLD0387-CCBD	Zinc-66	0.0170	2.92	6.00	ug/L	
SLD0387-CCBD	Zinc-67	0.0190	0.94	6.00	ug/L	
SLD0387-CCBE	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLD0387-CCBE	Cadmium-111	0.0140	0.03	0.100	ug/L	
SLD0387-CCBE	Cadmium-114	0.0230	0.04	0.100	ug/L	
SLD0387-CCBE	Copper-63	-0.00100	0.173	0.500	ug/L	
SLD0387-CCBE	Copper-65	0.00300	0.35	0.500	ug/L	
SLD0387-CCBE	Zinc-66	0.0320	2.92	6.00	ug/L	
SLD0387-CCBE	Zinc-67	-0.0070	0.94	6.00	ug/L	
SLD0387-IBLD	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLD0387-IBLD	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SLD0387-IBLD	Cadmium-114	0.00	0.04	0.100	ug/L	
SLD0387-IBLD	Copper-63	-0.00200	0.173	0.500	ug/L	
SLD0387-IBLD	Copper-65	0.00100	0.35	0.500	ug/L	
SLD0387-IBLD	Zinc-66	-0.0180	2.92	6.00	ug/L	
SLD0387-IBLD	Zinc-67	-0.0120	0.94	6.00	ug/L	
SLD0387-IBLE	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLD0387-IBLE	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLD0387-IBLE	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLD0387-IBLE	Copper-63	0.00	0.173	0.500	ug/L	
SLD0387-IBLE	Copper-65	-0.00200	0.35	0.500	ug/L	
SLD0387-IBLE	Zinc-66	0.0060	2.92	6.00	ug/L	
SLD0387-IBLE	Zinc-67	0.0020	0.94	6.00	ug/L	
SLD0387-CCBF	Arsenic-75a	0.00800	0.0373	0.200	ug/L	
SLD0387-CCBF	Cadmium-111	0.00600	0.03	0.100	ug/L	
SLD0387-CCBF	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLD0387-CCBF	Copper-63	0.00600	0.173	0.500	ug/L	
SLD0387-CCBF	Copper-65	0.0100	0.35	0.500	ug/L	
SLD0387-CCBF	Zinc-66	0.0180	2.92	6.00	ug/L	
SLD0387-CCBF	Zinc-67	-0.0010	0.94	6.00	ug/L	
SLD0387-IBLF	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLD0387-IBLF	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLD0387-IBLF	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLD0387-IBLF	Copper-63	0.0230	0.173	0.500	ug/L	
SLD0387-IBLF	Copper-65	0.0240	0.35	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0387

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00073
Date Analyzed: 04/27/23 04:58

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0387-IBLF	Zinc-66	0.0240	2.92	6.00	ug/L	
SLD0387-IBLF	Zinc-67	0.0570	0.94	6.00	ug/L	
SLD0387-IBLG	Arsenic-75a	0.0360	0.0373	0.200	ug/L	
SLD0387-IBLG	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLD0387-IBLG	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLD0387-IBLG	Copper-63	0.0530	0.173	0.500	ug/L	
SLD0387-IBLG	Copper-65	0.0620	0.35	0.500	ug/L	
SLD0387-IBLG	Zinc-66	0.148	2.92	6.00	ug/L	
SLD0387-IBLG	Zinc-67	0.109	0.94	6.00	ug/L	
SLD0387-CCBG	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SLD0387-CCBG	Cadmium-111	0.00	0.03	0.100	ug/L	
SLD0387-CCBG	Cadmium-114	0.00400	0.04	0.100	ug/L	
SLD0387-CCBG	Copper-63	-0.00100	0.173	0.500	ug/L	
SLD0387-CCBG	Copper-65	0.00200	0.35	0.500	ug/L	
SLD0387-CCBG	Zinc-66	0.0110	2.92	6.00	ug/L	
SLD0387-CCBG	Zinc-67	-0.0290	0.94	6.00	ug/L	
SLD0387-IBLH	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLD0387-IBLH	Cadmium-111	0.00	0.03	0.100	ug/L	
SLD0387-IBLH	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLD0387-IBLH	Copper-63	0.0180	0.173	0.500	ug/L	
SLD0387-IBLH	Copper-65	0.0160	0.35	0.500	ug/L	
SLD0387-IBLH	Zinc-66	0.0160	2.92	6.00	ug/L	
SLD0387-IBLH	Zinc-67	-0.0330	0.94	6.00	ug/L	
SLD0387-IBLI	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLD0387-IBLI	Cadmium-111	-0.00600	0.03	0.100	ug/L	
SLD0387-IBLI	Cadmium-114	0.00	0.04	0.100	ug/L	
SLD0387-IBLI	Copper-63	0.0230	0.173	0.500	ug/L	
SLD0387-IBLI	Copper-65	0.0250	0.35	0.500	ug/L	
SLD0387-IBLI	Zinc-66	0.0160	2.92	6.00	ug/L	
SLD0387-IBLI	Zinc-67	-0.0180	0.94	6.00	ug/L	
SLD0387-CCBH	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLD0387-CCBH	Cadmium-111	0.00100	0.03	0.100	ug/L	
SLD0387-CCBH	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLD0387-CCBH	Copper-63	0.00200	0.173	0.500	ug/L	
SLD0387-CCBH	Copper-65	0.00100	0.35	0.500	ug/L	
SLD0387-CCBH	Zinc-66	0.0070	2.92	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0387

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00073
Date Analyzed: 04/27/23 06:33

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0387-CCBH	Zinc-67	-0.0140	0.94	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0418

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00078
Date Analyzed: 04/27/23 17:32

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0418-IBL1	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLD0418-IBL1	Cadmium-111	0.00400	0.03	0.100	ug/L	
SLD0418-IBL1	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLD0418-IBL1	Copper-63	0.00	0.173	0.500	ug/L	
SLD0418-IBL1	Copper-65	0.00	0.35	0.500	ug/L	
SLD0418-IBL1	Zinc-66	0.0150	2.92	6.00	ug/L	
SLD0418-IBL1	Zinc-67	-0.0220	0.94	6.00	ug/L	
SLD0418-ICB1	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLD0418-ICB1	Cadmium-111	0.00600	0.03	0.100	ug/L	
SLD0418-ICB1	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLD0418-ICB1	Copper-63	0.00200	0.173	0.500	ug/L	
SLD0418-ICB1	Copper-65	-0.00100	0.35	0.500	ug/L	
SLD0418-ICB1	Zinc-66	-0.0040	2.92	6.00	ug/L	
SLD0418-ICB1	Zinc-67	-0.0490	0.94	6.00	ug/L	
SLD0418-CCB1	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLD0418-CCB1	Cadmium-111	0.0100	0.03	0.100	ug/L	
SLD0418-CCB1	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SLD0418-CCB1	Copper-63	0.00200	0.173	0.500	ug/L	
SLD0418-CCB1	Copper-65	0.00500	0.35	0.500	ug/L	
SLD0418-CCB1	Zinc-66	-0.0030	2.92	6.00	ug/L	
SLD0418-CCB1	Zinc-67	0.0030	0.94	6.00	ug/L	
SLD0418-CCB2	Arsenic-75a	0.0140	0.0373	0.200	ug/L	
SLD0418-CCB2	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLD0418-CCB2	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLD0418-CCB2	Copper-63	0.0110	0.173	0.500	ug/L	
SLD0418-CCB2	Copper-65	-0.00200	0.35	0.500	ug/L	
SLD0418-CCB2	Zinc-66	-0.0050	2.92	6.00	ug/L	
SLD0418-CCB2	Zinc-67	-0.0540	0.94	6.00	ug/L	
SLD0418-IBL2	Arsenic-75a	0.0130	0.0373	0.200	ug/L	
SLD0418-IBL2	Cadmium-111	0.00700	0.03	0.100	ug/L	
SLD0418-IBL2	Cadmium-114	0.00400	0.04	0.100	ug/L	
SLD0418-IBL2	Copper-63	0.0140	0.173	0.500	ug/L	
SLD0418-IBL2	Copper-65	0.0120	0.35	0.500	ug/L	
SLD0418-IBL2	Zinc-66	0.0180	2.92	6.00	ug/L	
SLD0418-IBL2	Zinc-67	0.0360	0.94	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0418

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00078
Date Analyzed: 04/27/23 19:30

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0418-IBL3	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLD0418-IBL3	Cadmium-111	0.00500	0.03	0.100	ug/L	
SLD0418-IBL3	Cadmium-114	0.00400	0.04	0.100	ug/L	
SLD0418-IBL3	Copper-63	0.0120	0.173	0.500	ug/L	
SLD0418-IBL3	Copper-65	0.00400	0.35	0.500	ug/L	
SLD0418-IBL3	Zinc-66	0.0220	2.92	6.00	ug/L	
SLD0418-IBL3	Zinc-67	-0.0020	0.94	6.00	ug/L	
SLD0418-CCB3	Arsenic-75a	0.00800	0.0373	0.200	ug/L	
SLD0418-CCB3	Cadmium-111	0.00	0.03	0.100	ug/L	
SLD0418-CCB3	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLD0418-CCB3	Copper-63	0.00700	0.173	0.500	ug/L	
SLD0418-CCB3	Copper-65	-0.00300	0.35	0.500	ug/L	
SLD0418-CCB3	Zinc-66	-0.0090	2.92	6.00	ug/L	
SLD0418-CCB3	Zinc-67	-0.0470	0.94	6.00	ug/L	
SLD0418-IBL4	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SLD0418-IBL4	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLD0418-IBL4	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLD0418-IBL4	Copper-63	0.0510	0.173	0.500	ug/L	
SLD0418-IBL4	Copper-65	0.0350	0.35	0.500	ug/L	
SLD0418-IBL4	Zinc-66	0.679	2.92	6.00	ug/L	
SLD0418-IBL4	Zinc-67	0.646	0.94	6.00	ug/L	
SLD0418-CCB4	Arsenic-75a	0.00400	0.0373	0.200	ug/L	
SLD0418-CCB4	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SLD0418-CCB4	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLD0418-CCB4	Copper-63	0.00400	0.173	0.500	ug/L	
SLD0418-CCB4	Copper-65	-0.00300	0.35	0.500	ug/L	
SLD0418-CCB4	Zinc-66	-0.0400	2.92	6.00	ug/L	
SLD0418-CCB4	Zinc-67	-0.0180	0.94	6.00	ug/L	
SLD0418-IBL5	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLD0418-IBL5	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SLD0418-IBL5	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLD0418-IBL5	Copper-63	0.0540	0.173	0.500	ug/L	
SLD0418-IBL5	Copper-65	0.0430	0.35	0.500	ug/L	
SLD0418-IBL5	Zinc-66	0.683	2.92	6.00	ug/L	
SLD0418-IBL5	Zinc-67	0.751	0.94	6.00	ug/L	
SLD0418-CCB5	Arsenic-75a	0.00800	0.0373	0.200	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0418

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00078
Date Analyzed: 04/27/23 21:49

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0418-CCB5	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SLD0418-CCB5	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLD0418-CCB5	Copper-63	0.00300	0.173	0.500	ug/L	
SLD0418-CCB5	Copper-65	0.00	0.35	0.500	ug/L	
SLD0418-CCB5	Zinc-66	-0.0140	2.92	6.00	ug/L	
SLD0418-CCB5	Zinc-67	-0.0400	0.94	6.00	ug/L	
SLD0418-CCB6	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLD0418-CCB6	Cadmium-111	0.0100	0.03	0.100	ug/L	
SLD0418-CCB6	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLD0418-CCB6	Copper-63	-0.00400	0.173	0.500	ug/L	
SLD0418-CCB6	Copper-65	-0.00700	0.35	0.500	ug/L	
SLD0418-CCB6	Zinc-66	-0.0490	2.92	6.00	ug/L	
SLD0418-CCB6	Zinc-67	-0.0410	0.94	6.00	ug/L	
SLD0418-IBL7	Arsenic-75a	-0.0110	0.0373	0.200	ug/L	
SLD0418-IBL7	Cadmium-111	0.0160	0.03	0.100	ug/L	
SLD0418-IBL7	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLD0418-IBL7	Copper-63	-0.00300	0.173	0.500	ug/L	
SLD0418-IBL7	Copper-65	-0.00100	0.35	0.500	ug/L	
SLD0418-IBL7	Zinc-66	0.164	2.92	6.00	ug/L	
SLD0418-IBL7	Zinc-67	0.143	0.94	6.00	ug/L	
SLD0418-CCB7	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLD0418-CCB7	Cadmium-111	0.00200	0.03	0.100	ug/L	
SLD0418-CCB7	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SLD0418-CCB7	Copper-63	-0.0150	0.173	0.500	ug/L	
SLD0418-CCB7	Copper-65	-0.0140	0.35	0.500	ug/L	
SLD0418-CCB7	Zinc-66	-0.0560	2.92	6.00	ug/L	
SLD0418-CCB7	Zinc-67	-0.0330	0.94	6.00	ug/L	
SLD0418-IBL8	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLD0418-IBL8	Cadmium-111	0.00300	0.03	0.100	ug/L	
SLD0418-IBL8	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLD0418-IBL8	Copper-63	-0.00300	0.173	0.500	ug/L	
SLD0418-IBL8	Copper-65	-0.00300	0.35	0.500	ug/L	
SLD0418-IBL8	Zinc-66	0.124	2.92	6.00	ug/L	
SLD0418-IBL8	Zinc-67	0.0440	0.94	6.00	ug/L	
SLD0418-CCB8	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLD0418-CCB8	Cadmium-111	0.0170	0.03	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0418

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00078
Date Analyzed: 04/28/23 00:14

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0418-CCB8	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLD0418-CCB8	Copper-63	-0.0160	0.173	0.500	ug/L	
SLD0418-CCB8	Copper-65	-0.0110	0.35	0.500	ug/L	
SLD0418-CCB8	Zinc-66	-0.0450	2.92	6.00	ug/L	
SLD0418-CCB8	Zinc-67	-0.0150	0.94	6.00	ug/L	
SLD0418-IBL9	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SLD0418-IBL9	Cadmium-111	0.00500	0.03	0.100	ug/L	
SLD0418-IBL9	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLD0418-IBL9	Copper-63	-0.00100	0.173	0.500	ug/L	
SLD0418-IBL9	Copper-65	-0.00400	0.35	0.500	ug/L	
SLD0418-IBL9	Zinc-66	0.154	2.92	6.00	ug/L	
SLD0418-IBL9	Zinc-67	0.148	0.94	6.00	ug/L	
SLD0418-CCB9	Arsenic-75a	-0.00900	0.0373	0.200	ug/L	
SLD0418-CCB9	Cadmium-111	0.00800	0.03	0.100	ug/L	
SLD0418-CCB9	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLD0418-CCB9	Copper-63	-0.0130	0.173	0.500	ug/L	
SLD0418-CCB9	Copper-65	-0.0140	0.35	0.500	ug/L	
SLD0418-CCB9	Zinc-66	-0.0570	2.92	6.00	ug/L	
SLD0418-CCB9	Zinc-67	-0.0720	0.94	6.00	ug/L	
SLD0418-IBLA	Arsenic-75a	-0.0110	0.0373	0.200	ug/L	
SLD0418-IBLA	Cadmium-111	0.00800	0.03	0.100	ug/L	
SLD0418-IBLA	Cadmium-114	-0.00400	0.04	0.100	ug/L	
SLD0418-IBLA	Copper-63	0.00100	0.173	0.500	ug/L	
SLD0418-IBLA	Copper-65	-0.00500	0.35	0.500	ug/L	
SLD0418-IBLA	Zinc-66	0.125	2.92	6.00	ug/L	
SLD0418-IBLA	Zinc-67	0.130	0.94	6.00	ug/L	
SLD0418-CCBA	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLD0418-CCBA	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SLD0418-CCBA	Cadmium-114	0.00600	0.04	0.100	ug/L	
SLD0418-CCBA	Copper-63	-0.0170	0.173	0.500	ug/L	
SLD0418-CCBA	Copper-65	-0.0110	0.35	0.500	ug/L	
SLD0418-CCBA	Zinc-66	-0.0610	2.92	6.00	ug/L	
SLD0418-CCBA	Zinc-67	-0.0470	0.94	6.00	ug/L	
SLD0418-IBLB	Arsenic-75a	-0.00700	0.0373	0.200	ug/L	
SLD0418-IBLB	Cadmium-111	0.0120	0.03	0.100	ug/L	
SLD0418-IBLB	Cadmium-114	0.00800	0.04	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0418

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00078
Date Analyzed: 04/28/23 02:50

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0418-IBLB	Copper-63	-0.00400	0.173	0.500	ug/L	
SLD0418-IBLB	Copper-65	-0.00300	0.35	0.500	ug/L	
SLD0418-IBLB	Zinc-66	0.133	2.92	6.00	ug/L	
SLD0418-IBLB	Zinc-67	0.184	0.94	6.00	ug/L	
SLD0418-CCBB	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLD0418-CCBB	Cadmium-111	0.00200	0.03	0.100	ug/L	
SLD0418-CCBB	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLD0418-CCBB	Copper-63	-0.0150	0.173	0.500	ug/L	
SLD0418-CCBB	Copper-65	-0.0180	0.35	0.500	ug/L	
SLD0418-CCBB	Zinc-66	-0.0730	2.92	6.00	ug/L	
SLD0418-CCBB	Zinc-67	-0.0760	0.94	6.00	ug/L	
SLD0418-CCBC	Arsenic-75a	0.00400	0.0373	0.200	ug/L	
SLD0418-CCBC	Cadmium-111	-0.0120	0.03	0.100	ug/L	
SLD0418-CCBC	Cadmium-114	0.00	0.04	0.100	ug/L	
SLD0418-CCBC	Copper-63	0.00	0.173	0.500	ug/L	
SLD0418-CCBC	Copper-65	0.00	0.35	0.500	ug/L	
SLD0418-CCBC	Zinc-66	0.00	2.92	6.00	ug/L	
SLD0418-CCBC	Zinc-67	0.0230	0.94	6.00	ug/L	
SLD0418-IBLD	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLD0418-IBLD	Cadmium-111	-0.0170	0.03	0.100	ug/L	
SLD0418-IBLD	Cadmium-114	0.00	0.04	0.100	ug/L	
SLD0418-IBLD	Copper-63	0.0130	0.173	0.500	ug/L	
SLD0418-IBLD	Copper-65	0.0180	0.35	0.500	ug/L	
SLD0418-IBLD	Zinc-66	0.232	2.92	6.00	ug/L	
SLD0418-IBLD	Zinc-67	0.171	0.94	6.00	ug/L	
SLD0418-CCBD	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLD0418-CCBD	Cadmium-111	-0.0110	0.03	0.100	ug/L	
SLD0418-CCBD	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SLD0418-CCBD	Copper-63	-0.00200	0.173	0.500	ug/L	
SLD0418-CCBD	Copper-65	-0.00200	0.35	0.500	ug/L	
SLD0418-CCBD	Zinc-66	-0.0290	2.92	6.00	ug/L	
SLD0418-CCBD	Zinc-67	0.0010	0.94	6.00	ug/L	
SLD0418-IBLE	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLD0418-IBLE	Cadmium-111	-0.0160	0.03	0.100	ug/L	
SLD0418-IBLE	Cadmium-114	0.00400	0.04	0.100	ug/L	
SLD0418-IBLE	Copper-63	0.0180	0.173	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0418

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00078
Date Analyzed: 04/28/23 04:58

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0418-IBLE	Copper-65	0.0240	0.35	0.500	ug/L	
SLD0418-IBLE	Zinc-66	0.182	2.92	6.00	ug/L	
SLD0418-IBLE	Zinc-67	0.197	0.94	6.00	ug/L	
SLD0418-CCBE	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLD0418-CCBE	Cadmium-111	-0.0110	0.03	0.100	ug/L	
SLD0418-CCBE	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLD0418-CCBE	Copper-63	-0.00100	0.173	0.500	ug/L	
SLD0418-CCBE	Copper-65	0.00100	0.35	0.500	ug/L	
SLD0418-CCBE	Zinc-66	-0.0440	2.92	6.00	ug/L	
SLD0418-CCBE	Zinc-67	-0.0050	0.94	6.00	ug/L	
SLD0418-IBLF	Arsenic-75a	-0.00700	0.0373	0.200	ug/L	
SLD0418-IBLF	Cadmium-111	-0.0170	0.03	0.100	ug/L	
SLD0418-IBLF	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLD0418-IBLF	Copper-63	0.0220	0.173	0.500	ug/L	
SLD0418-IBLF	Copper-65	0.0170	0.35	0.500	ug/L	
SLD0418-IBLF	Zinc-66	0.244	2.92	6.00	ug/L	
SLD0418-IBLF	Zinc-67	0.207	0.94	6.00	ug/L	
SLD0418-CCBF	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLD0418-CCBF	Cadmium-111	-0.0130	0.03	0.100	ug/L	
SLD0418-CCBF	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLD0418-CCBF	Copper-63	-0.00100	0.173	0.500	ug/L	
SLD0418-CCBF	Copper-65	-0.00200	0.35	0.500	ug/L	
SLD0418-CCBF	Zinc-66	-0.0260	2.92	6.00	ug/L	
SLD0418-CCBF	Zinc-67	-0.0120	0.94	6.00	ug/L	
SLD0418-IBLG	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLD0418-IBLG	Cadmium-111	-0.0180	0.03	0.100	ug/L	
SLD0418-IBLG	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLD0418-IBLG	Copper-63	0.0200	0.173	0.500	ug/L	
SLD0418-IBLG	Copper-65	0.0260	0.35	0.500	ug/L	
SLD0418-IBLG	Zinc-66	0.0190	2.92	6.00	ug/L	
SLD0418-IBLG	Zinc-67	0.0340	0.94	6.00	ug/L	
SLD0418-CCBG	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLD0418-CCBG	Cadmium-111	-0.0120	0.03	0.100	ug/L	
SLD0418-CCBG	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLD0418-CCBG	Copper-63	0.00	0.173	0.500	ug/L	
SLD0418-CCBG	Copper-65	-0.00200	0.35	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0418

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00078
Date Analyzed: 04/28/23 07:02

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0418-CCBG	Zinc-66	-0.0270	2.92	6.00	ug/L	
SLD0418-CCBG	Zinc-67	-0.0440	0.94	6.00	ug/L	
SLD0418-CCBH	Arsenic-75a	0.0170	0.0373	0.200	ug/L	
SLD0418-CCBH	Cadmium-111	0.00900	0.03	0.100	ug/L	
SLD0418-CCBH	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLD0418-CCBH	Copper-63	0.0130	0.173	0.500	ug/L	
SLD0418-CCBH	Copper-65	0.00900	0.35	0.500	ug/L	
SLD0418-CCBH	Zinc-66	-0.0030	2.92	6.00	ug/L	
SLD0418-CCBH	Zinc-67	0.0130	0.94	6.00	ug/L	
SLD0418-IBLI	Arsenic-75a	-0.00600	0.0373	0.200	ug/L	
SLD0418-IBLI	Cadmium-111	0.0110	0.03	0.100	ug/L	
SLD0418-IBLI	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLD0418-IBLI	Copper-63	0.0200	0.173	0.500	ug/L	
SLD0418-IBLI	Copper-65	0.0200	0.35	0.500	ug/L	
SLD0418-IBLI	Zinc-66	0.0430	2.92	6.00	ug/L	
SLD0418-IBLI	Zinc-67	0.114	0.94	6.00	ug/L	
SLD0418-CCBI	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLD0418-CCBI	Cadmium-111	0.0140	0.03	0.100	ug/L	
SLD0418-CCBI	Cadmium-114	-0.00500	0.04	0.100	ug/L	
SLD0418-CCBI	Copper-63	-0.00100	0.173	0.500	ug/L	
SLD0418-CCBI	Copper-65	-0.00500	0.35	0.500	ug/L	
SLD0418-CCBI	Zinc-66	-0.0290	2.92	6.00	ug/L	
SLD0418-CCBI	Zinc-67	-0.0390	0.94	6.00	ug/L	
SLD0418-IBLJ	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	
SLD0418-IBLJ	Cadmium-111	0.00200	0.03	0.100	ug/L	
SLD0418-IBLJ	Cadmium-114	0.00400	0.04	0.100	ug/L	
SLD0418-IBLJ	Copper-63	0.0240	0.173	0.500	ug/L	
SLD0418-IBLJ	Copper-65	0.0220	0.35	0.500	ug/L	
SLD0418-IBLJ	Zinc-66	0.0480	2.92	6.00	ug/L	
SLD0418-IBLJ	Zinc-67	0.0210	0.94	6.00	ug/L	
SLD0418-CCBJ	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLD0418-CCBJ	Cadmium-111	0.0200	0.03	0.100	ug/L	
SLD0418-CCBJ	Cadmium-114	0.00900	0.04	0.100	ug/L	
SLD0418-CCBJ	Copper-63	0.00100	0.173	0.500	ug/L	
SLD0418-CCBJ	Copper-65	-0.00200	0.35	0.500	ug/L	
SLD0418-CCBJ	Zinc-66	-0.0240	2.92	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLD0418

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00078
Date Analyzed: 04/28/23 09:13

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0418-CCBJ	Zinc-67	0.0210	0.94	6.00	ug/L	
SLD0418-IBLK	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	
SLD0418-IBLK	Cadmium-111	0.0100	0.03	0.100	ug/L	
SLD0418-IBLK	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLD0418-IBLK	Copper-63	0.0180	0.173	0.500	ug/L	
SLD0418-IBLK	Copper-65	0.0250	0.35	0.500	ug/L	
SLD0418-IBLK	Zinc-66	0.0310	2.92	6.00	ug/L	
SLD0418-IBLK	Zinc-67	0.105	0.94	6.00	ug/L	
SLD0418-CCBK	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLD0418-CCBK	Cadmium-111	0.00700	0.03	0.100	ug/L	
SLD0418-CCBK	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SLD0418-CCBK	Copper-63	-0.00100	0.173	0.500	ug/L	
SLD0418-CCBK	Copper-65	-0.00400	0.35	0.500	ug/L	
SLD0418-CCBK	Zinc-66	-0.0160	2.92	6.00	ug/L	
SLD0418-CCBK	Zinc-67	0.0230	0.94	6.00	ug/L	
SLD0418-IBLL	Arsenic-75a	-0.00900	0.0373	0.200	ug/L	
SLD0418-IBLL	Cadmium-111	0.00800	0.03	0.100	ug/L	
SLD0418-IBLL	Cadmium-114	-0.00800	0.04	0.100	ug/L	
SLD0418-IBLL	Copper-63	0.0170	0.173	0.500	ug/L	
SLD0418-IBLL	Copper-65	0.0170	0.35	0.500	ug/L	
SLD0418-IBLL	Zinc-66	0.0500	2.92	6.00	ug/L	
SLD0418-IBLL	Zinc-67	0.101	0.94	6.00	ug/L	
SLD0418-CCBL	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLD0418-CCBL	Cadmium-111	0.00400	0.03	0.100	ug/L	
SLD0418-CCBL	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLD0418-CCBL	Copper-63	-0.00100	0.173	0.500	ug/L	
SLD0418-CCBL	Copper-65	-0.00500	0.35	0.500	ug/L	
SLD0418-CCBL	Zinc-66	0.0020	2.92	6.00	ug/L	
SLD0418-CCBL	Zinc-67	0.0190	0.94	6.00	ug/L	
SLD0418-IBLM	Arsenic-75a	0.228	0.0373	0.200	ug/L	
SLD0418-IBLM	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SLD0418-IBLM	Cadmium-114	-0.0100	0.04	0.100	ug/L	
SLD0418-IBLM	Copper-63	0.0200	0.173	0.500	ug/L	
SLD0418-IBLM	Copper-65	0.0220	0.35	0.500	ug/L	
SLD0418-IBLM	Zinc-66	0.0600	2.92	6.00	ug/L	
SLD0418-IBLM	Zinc-67	0.0500	0.94	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00078
Sequence: SLD0418
Date Analyzed: 04/28/23 11:43

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0418-IBLN	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLD0418-IBLN	Cadmium-111	0.00800	0.03	0.100	ug/L	
SLD0418-IBLN	Cadmium-114	-0.00800	0.04	0.100	ug/L	
SLD0418-IBLN	Copper-63	0.0190	0.173	0.500	ug/L	
SLD0418-IBLN	Copper-65	0.0230	0.35	0.500	ug/L	
SLD0418-IBLN	Zinc-66	0.0880	2.92	6.00	ug/L	
SLD0418-IBLN	Zinc-67	0.0670	0.94	6.00	ug/L	
SLD0418-IBLO	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SLD0418-IBLO	Cadmium-111	0.00200	0.03	0.100	ug/L	
SLD0418-IBLO	Cadmium-114	-0.00700	0.04	0.100	ug/L	
SLD0418-IBLO	Copper-63	0.0270	0.173	0.500	ug/L	
SLD0418-IBLO	Copper-65	0.0160	0.35	0.500	ug/L	
SLD0418-IBLO	Zinc-66	0.0580	2.92	6.00	ug/L	
SLD0418-IBLO	Zinc-67	0.0680	0.94	6.00	ug/L	
SLD0418-CCBM	Arsenic-75a	0.00400	0.0373	0.200	ug/L	
SLD0418-CCBM	Cadmium-111	0.0130	0.03	0.100	ug/L	
SLD0418-CCBM	Cadmium-114	0.00	0.04	0.100	ug/L	
SLD0418-CCBM	Copper-63	0.00300	0.173	0.500	ug/L	
SLD0418-CCBM	Copper-65	-0.00300	0.35	0.500	ug/L	
SLD0418-CCBM	Zinc-66	0.0040	2.92	6.00	ug/L	
SLD0418-CCBM	Zinc-67	0.0060	0.94	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0043

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GE00013
Date Analyzed: 05/02/23 14:19

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0043-IBL1	Arsenic-75a	0.0270	0.0373	0.200	ug/L	
SLE0043-IBL1	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SLE0043-IBL1	Cadmium-114	0.00500	0.04	0.100	ug/L	
SLE0043-IBL1	Copper-63	0.0160	0.173	0.500	ug/L	
SLE0043-IBL1	Copper-65	0.0150	0.35	0.500	ug/L	
SLE0043-IBL1	Zinc-66	0.0180	2.92	6.00	ug/L	
SLE0043-IBL1	Zinc-67	0.0670	0.94	6.00	ug/L	
SLE0043-ICB1	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLE0043-ICB1	Cadmium-111	0.00300	0.03	0.100	ug/L	
SLE0043-ICB1	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0043-ICB1	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0043-ICB1	Copper-65	0.00200	0.35	0.500	ug/L	
SLE0043-ICB1	Zinc-66	0.0100	2.92	6.00	ug/L	
SLE0043-ICB1	Zinc-67	0.0410	0.94	6.00	ug/L	
SLE0043-CCB1	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SLE0043-CCB1	Cadmium-111	0.0110	0.03	0.100	ug/L	
SLE0043-CCB1	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0043-CCB1	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0043-CCB1	Copper-65	-0.00200	0.35	0.500	ug/L	
SLE0043-CCB1	Zinc-66	0.0060	2.92	6.00	ug/L	
SLE0043-CCB1	Zinc-67	0.0260	0.94	6.00	ug/L	
SLE0043-IBL2	Arsenic-75a	0.0140	0.0373	0.200	ug/L	
SLE0043-IBL2	Cadmium-111	0.00900	0.03	0.100	ug/L	
SLE0043-IBL2	Cadmium-114	0.00800	0.04	0.100	ug/L	
SLE0043-IBL2	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0043-IBL2	Copper-65	0.00400	0.35	0.500	ug/L	
SLE0043-IBL2	Zinc-66	0.0250	2.92	6.00	ug/L	
SLE0043-IBL2	Zinc-67	0.0280	0.94	6.00	ug/L	
SLE0043-IBL3	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0043-IBL3	Cadmium-111	0.00500	0.03	0.100	ug/L	
SLE0043-IBL3	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0043-IBL3	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0043-IBL3	Copper-65	0.00600	0.35	0.500	ug/L	
SLE0043-IBL3	Zinc-66	0.0290	2.92	6.00	ug/L	
SLE0043-IBL3	Zinc-67	0.0390	0.94	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0043

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GE00013
Date Analyzed: 05/02/23 15:57

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0043-CCB2	Arsenic-75a	0.0110	0.0373	0.200	ug/L	
SLE0043-CCB2	Cadmium-111	0.00500	0.03	0.100	ug/L	
SLE0043-CCB2	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLE0043-CCB2	Copper-63	0.00400	0.173	0.500	ug/L	
SLE0043-CCB2	Copper-65	0.00400	0.35	0.500	ug/L	
SLE0043-CCB2	Zinc-66	0.0240	2.92	6.00	ug/L	
SLE0043-CCB2	Zinc-67	0.0670	0.94	6.00	ug/L	
SLE0043-IBL4	Arsenic-75a	-0.00600	0.0373	0.200	ug/L	
SLE0043-IBL4	Cadmium-111	0.00	0.03	0.100	ug/L	
SLE0043-IBL4	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLE0043-IBL4	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0043-IBL4	Copper-65	0.00500	0.35	0.500	ug/L	
SLE0043-IBL4	Zinc-66	0.0550	2.92	6.00	ug/L	
SLE0043-IBL4	Zinc-67	0.0600	0.94	6.00	ug/L	
SLE0043-CCB3	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLE0043-CCB3	Cadmium-111	0.00400	0.03	0.100	ug/L	
SLE0043-CCB3	Cadmium-114	0.00600	0.04	0.100	ug/L	
SLE0043-CCB3	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0043-CCB3	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0043-CCB3	Zinc-66	0.0240	2.92	6.00	ug/L	
SLE0043-CCB3	Zinc-67	0.0600	0.94	6.00	ug/L	
SLE0043-CCB4	Arsenic-75a	0.00800	0.0373	0.200	ug/L	
SLE0043-CCB4	Cadmium-111	0.00900	0.03	0.100	ug/L	
SLE0043-CCB4	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLE0043-CCB4	Copper-63	-0.00200	0.173	0.500	ug/L	
SLE0043-CCB4	Copper-65	0.00200	0.35	0.500	ug/L	
SLE0043-CCB4	Zinc-66	-0.0030	2.92	6.00	ug/L	
SLE0043-CCB4	Zinc-67	0.0360	0.94	6.00	ug/L	
SLE0043-CCB5	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLE0043-CCB5	Cadmium-111	-0.00800	0.03	0.100	ug/L	
SLE0043-CCB5	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLE0043-CCB5	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0043-CCB5	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0043-CCB5	Zinc-66	0.0130	2.92	6.00	ug/L	
SLE0043-CCB5	Zinc-67	0.0160	0.94	6.00	ug/L	
SLE0043-CCB6	Arsenic-75a	0.00	0.0373	0.200	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0043

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GE00013
Date Analyzed: 05/02/23 19:16

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0043-CCB6	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0043-CCB6	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0043-CCB6	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0043-CCB6	Copper-65	0.00200	0.35	0.500	ug/L	
SLE0043-CCB6	Zinc-66	0.0210	2.92	6.00	ug/L	
SLE0043-CCB6	Zinc-67	0.0400	0.94	6.00	ug/L	
SLE0043-CCB7	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLE0043-CCB7	Cadmium-111	0.00300	0.03	0.100	ug/L	
SLE0043-CCB7	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0043-CCB7	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0043-CCB7	Copper-65	0.00	0.35	0.500	ug/L	
SLE0043-CCB7	Zinc-66	0.0040	2.92	6.00	ug/L	
SLE0043-CCB7	Zinc-67	0.0160	0.94	6.00	ug/L	
SLE0043-CCB8	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLE0043-CCB8	Cadmium-111	0.00	0.03	0.100	ug/L	
SLE0043-CCB8	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLE0043-CCB8	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0043-CCB8	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0043-CCB8	Zinc-66	0.0050	2.92	6.00	ug/L	
SLE0043-CCB8	Zinc-67	0.0350	0.94	6.00	ug/L	
SLE0043-CCB9	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLE0043-CCB9	Cadmium-111	0.00300	0.03	0.100	ug/L	
SLE0043-CCB9	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0043-CCB9	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0043-CCB9	Copper-65	-0.00200	0.35	0.500	ug/L	
SLE0043-CCB9	Zinc-66	0.0230	2.92	6.00	ug/L	
SLE0043-CCB9	Zinc-67	0.0260	0.94	6.00	ug/L	
SLE0043-CCBA	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0043-CCBA	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SLE0043-CCBA	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0043-CCBA	Copper-63	-0.00200	0.173	0.500	ug/L	
SLE0043-CCBA	Copper-65	0.00400	0.35	0.500	ug/L	
SLE0043-CCBA	Zinc-66	-0.0010	2.92	6.00	ug/L	
SLE0043-CCBA	Zinc-67	-0.0420	0.94	6.00	ug/L	
SLE0043-IBL5	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLE0043-IBL5	Cadmium-111	0.00300	0.03	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0043

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GE00013
Date Analyzed: 05/02/23 23:07

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0043-IBL5	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLE0043-IBL5	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0043-IBL5	Copper-65	0.00900	0.35	0.500	ug/L	
SLE0043-IBL5	Zinc-66	0.0390	2.92	6.00	ug/L	
SLE0043-IBL5	Zinc-67	0.0690	0.94	6.00	ug/L	
SLE0043-CCBB	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLE0043-CCBB	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLE0043-CCBB	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0043-CCBB	Copper-63	-0.00200	0.173	0.500	ug/L	
SLE0043-CCBB	Copper-65	0.00600	0.35	0.500	ug/L	
SLE0043-CCBB	Zinc-66	-0.0020	2.92	6.00	ug/L	
SLE0043-CCBB	Zinc-67	-0.0030	0.94	6.00	ug/L	
SLE0043-IBL6	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SLE0043-IBL6	Cadmium-111	-0.00500	0.03	0.100	ug/L	
SLE0043-IBL6	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLE0043-IBL6	Copper-63	-0.00200	0.173	0.500	ug/L	
SLE0043-IBL6	Copper-65	0.00500	0.35	0.500	ug/L	
SLE0043-IBL6	Zinc-66	0.0410	2.92	6.00	ug/L	
SLE0043-IBL6	Zinc-67	-0.0340	0.94	6.00	ug/L	
SLE0043-IBL7	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	
SLE0043-IBL7	Cadmium-111	0.00200	0.03	0.100	ug/L	
SLE0043-IBL7	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0043-IBL7	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0043-IBL7	Copper-65	0.00400	0.35	0.500	ug/L	
SLE0043-IBL7	Zinc-66	0.0570	2.92	6.00	ug/L	
SLE0043-IBL7	Zinc-67	0.0610	0.94	6.00	ug/L	
SLE0043-CCBC	Arsenic-75a	0.0100	0.0373	0.200	ug/L	
SLE0043-CCBC	Cadmium-111	0.00300	0.03	0.100	ug/L	
SLE0043-CCBC	Cadmium-114	-0.00500	0.04	0.100	ug/L	
SLE0043-CCBC	Copper-63	0.00400	0.173	0.500	ug/L	
SLE0043-CCBC	Copper-65	0.0100	0.35	0.500	ug/L	
SLE0043-CCBC	Zinc-66	-0.0020	2.92	6.00	ug/L	
SLE0043-CCBC	Zinc-67	-0.0450	0.94	6.00	ug/L	
SLE0043-IBL8	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLE0043-IBL8	Cadmium-111	0.00700	0.03	0.100	ug/L	
SLE0043-IBL8	Cadmium-114	0.00100	0.04	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0043

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GE00013
Date Analyzed: 05/03/23 01:06

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0043-IBL8	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0043-IBL8	Copper-65	0.00300	0.35	0.500	ug/L	
SLE0043-IBL8	Zinc-66	0.0400	2.92	6.00	ug/L	
SLE0043-IBL8	Zinc-67	0.0450	0.94	6.00	ug/L	
SLE0043-CCBD	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLE0043-CCBD	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SLE0043-CCBD	Cadmium-114	0.00700	0.04	0.100	ug/L	
SLE0043-CCBD	Copper-63	0.00	0.173	0.500	ug/L	
SLE0043-CCBD	Copper-65	0.00100	0.35	0.500	ug/L	
SLE0043-CCBD	Zinc-66	-0.0070	2.92	6.00	ug/L	
SLE0043-CCBD	Zinc-67	-0.0250	0.94	6.00	ug/L	
SLE0043-IBL9	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLE0043-IBL9	Cadmium-111	0.00100	0.03	0.100	ug/L	
SLE0043-IBL9	Cadmium-114	-0.00500	0.04	0.100	ug/L	
SLE0043-IBL9	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0043-IBL9	Copper-65	0.00200	0.35	0.500	ug/L	
SLE0043-IBL9	Zinc-66	0.0560	2.92	6.00	ug/L	
SLE0043-IBL9	Zinc-67	0.0670	0.94	6.00	ug/L	
SLE0043-CCBE	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLE0043-CCBE	Cadmium-111	0.00500	0.03	0.100	ug/L	
SLE0043-CCBE	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLE0043-CCBE	Copper-63	0.00	0.173	0.500	ug/L	
SLE0043-CCBE	Copper-65	0.00300	0.35	0.500	ug/L	
SLE0043-CCBE	Zinc-66	-0.0080	2.92	6.00	ug/L	
SLE0043-CCBE	Zinc-67	-0.0450	0.94	6.00	ug/L	
SLE0043-CCBF	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLE0043-CCBF	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLE0043-CCBF	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLE0043-CCBF	Copper-63	-0.00100	0.173	0.500	ug/L	
SLE0043-CCBF	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0043-CCBF	Zinc-66	-0.0350	2.92	6.00	ug/L	
SLE0043-CCBF	Zinc-67	-0.0270	0.94	6.00	ug/L	
SLE0043-IBLA	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	
SLE0043-IBLA	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0043-IBLA	Cadmium-114	0.00700	0.04	0.100	ug/L	
SLE0043-IBLA	Copper-63	0.00400	0.173	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0043

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GE00013
Date Analyzed: 05/03/23 02:56

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0043-IBLA	Copper-65	0.00400	0.35	0.500	ug/L	
SLE0043-IBLA	Zinc-66	0.0420	2.92	6.00	ug/L	
SLE0043-IBLA	Zinc-67	0.0290	0.94	6.00	ug/L	
SLE0043-CCBG	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLE0043-CCBG	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SLE0043-CCBG	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0043-CCBG	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0043-CCBG	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0043-CCBG	Zinc-66	-0.0260	2.92	6.00	ug/L	
SLE0043-CCBG	Zinc-67	-0.0530	0.94	6.00	ug/L	
SLE0043-IBLB	Arsenic-75a	-0.00600	0.0373	0.200	ug/L	
SLE0043-IBLB	Cadmium-111	-0.00500	0.03	0.100	ug/L	
SLE0043-IBLB	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0043-IBLB	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0043-IBLB	Copper-65	0.00200	0.35	0.500	ug/L	
SLE0043-IBLB	Zinc-66	0.0550	2.92	6.00	ug/L	
SLE0043-IBLB	Zinc-67	-0.0080	0.94	6.00	ug/L	
SLE0043-CCBH	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLE0043-CCBH	Cadmium-111	-0.00800	0.03	0.100	ug/L	
SLE0043-CCBH	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0043-CCBH	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0043-CCBH	Copper-65	-0.00200	0.35	0.500	ug/L	
SLE0043-CCBH	Zinc-66	-0.0190	2.92	6.00	ug/L	
SLE0043-CCBH	Zinc-67	0.0160	0.94	6.00	ug/L	
SLE0043-IBLC	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLE0043-IBLC	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0043-IBLC	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0043-IBLC	Copper-63	0.0320	0.173	0.500	ug/L	
SLE0043-IBLC	Copper-65	0.0290	0.35	0.500	ug/L	
SLE0043-IBLC	Zinc-66	0.0900	2.92	6.00	ug/L	
SLE0043-IBLC	Zinc-67	0.0780	0.94	6.00	ug/L	
SLE0043-CCBI	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLE0043-CCBI	Cadmium-111	-0.0100	0.03	0.100	ug/L	
SLE0043-CCBI	Cadmium-114	0.00400	0.04	0.100	ug/L	
SLE0043-CCBI	Copper-63	0.00	0.173	0.500	ug/L	
SLE0043-CCBI	Copper-65	-0.00100	0.35	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0043

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GE00013
Date Analyzed: 05/03/23 04:39

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0043-CCBI	Zinc-66	-0.0130	2.92	6.00	ug/L	
SLE0043-CCBI	Zinc-67	-0.0270	0.94	6.00	ug/L	
SLE0043-IBLD	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	
SLE0043-IBLD	Cadmium-111	-0.00500	0.03	0.100	ug/L	
SLE0043-IBLD	Cadmium-114	0.00500	0.04	0.100	ug/L	
SLE0043-IBLD	Copper-63	0.00400	0.173	0.500	ug/L	
SLE0043-IBLD	Copper-65	0.00500	0.35	0.500	ug/L	
SLE0043-IBLD	Zinc-66	0.0030	2.92	6.00	ug/L	
SLE0043-IBLD	Zinc-67	-0.0300	0.94	6.00	ug/L	
SLE0043-CCBJ	Arsenic-75a	0.0160	0.0373	0.200	ug/L	
SLE0043-CCBJ	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0043-CCBJ	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLE0043-CCBJ	Copper-63	0.0200	0.173	0.500	ug/L	
SLE0043-CCBJ	Copper-65	0.0240	0.35	0.500	ug/L	
SLE0043-CCBJ	Zinc-66	0.0090	2.92	6.00	ug/L	
SLE0043-CCBJ	Zinc-67	-0.0090	0.94	6.00	ug/L	
SLE0043-IBLE	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SLE0043-IBLE	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SLE0043-IBLE	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SLE0043-IBLE	Copper-63	0.00800	0.173	0.500	ug/L	
SLE0043-IBLE	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0043-IBLE	Zinc-66	-0.0110	2.92	6.00	ug/L	
SLE0043-IBLE	Zinc-67	0.00	0.94	6.00	ug/L	
SLE0043-CCBK	Arsenic-75a	0.0130	0.0373	0.200	ug/L	
SLE0043-CCBK	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SLE0043-CCBK	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0043-CCBK	Copper-63	0.0170	0.173	0.500	ug/L	
SLE0043-CCBK	Copper-65	0.0120	0.35	0.500	ug/L	
SLE0043-CCBK	Zinc-66	-0.0060	2.92	6.00	ug/L	
SLE0043-CCBK	Zinc-67	-0.0290	0.94	6.00	ug/L	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0370
Instrument: ICPMS1
Calibration: GD00066

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLD0370-CAL1	XDT_m1230425-021	NA	04/25/23 17:12
CAL 1 - LOW CHECK	SLD0370-CAL2	XDT_m1230425-022	NA	04/25/23 17:17
CAL 2	SLD0370-CAL3	XDT_m1230425-023	NA	04/25/23 17:22
CAL 3	SLD0370-CAL4	XDT_m1230425-024	NA	04/25/23 17:27
CAL 4	SLD0370-CAL5	XDT_m1230425-025	NA	04/25/23 17:33
CAL 5	SLD0370-CAL6	XDT_m1230425-026	NA	04/25/23 17:40
RINSE	SLD0370-IBL1	XDT_m1230425-027	NA	04/25/23 17:47
Initial Cal Check	SLD0370-ICV1	XDT_m1230425-030	NA	04/25/23 18:02
Initial Cal Blank	SLD0370-ICB1	XDT_m1230425-031	NA	04/25/23 18:09
Calibration Check	SLD0370-CCV1	XDT_m1230425-032	NA	04/25/23 18:15
Calibration Blank	SLD0370-CCB1	XDT_m1230425-033	NA	04/25/23 18:22
Instrument RL Check	SLD0370-CRL1	XDT_m1230425-034	NA	04/25/23 18:27
Interference Check A	SLD0370-IFA1	XDT_m1230425-035	NA	04/25/23 18:33
Interference Check B	SLD0370-IFB1	XDT_m1230425-036	NA	04/25/23 18:38
LR200	SLD0370-HCV1	XDT_m1230425-037	NA	04/25/23 18:43
LR300	SLD0370-HCV2	XDT_m1230425-038	NA	04/25/23 18:48
Instrument Blank	SLD0370-IBL2	XDT_m1230425-039	NA	04/25/23 18:56
Instrument Blank	SLD0370-IBL3	XDT_m1230425-040	NA	04/25/23 19:03
Calibration Check	SLD0370-CCV2	XDT_m1230425-041	NA	04/25/23 19:09
Calibration Blank	SLD0370-CCB2	XDT_m1230425-042	NA	04/25/23 19:18
Instrument Blank	SLD0370-IBL4	XDT_m1230425-051	NA	04/25/23 20:06
Calibration Check	SLD0370-CCV3	XDT_m1230425-052	NA	04/25/23 20:11
Calibration Blank	SLD0370-CCB3	XDT_m1230425-053	NA	04/25/23 20:19
Instrument Blank	SLD0370-IBL5	XDT_m1230425-061	NA	04/25/23 21:08
Calibration Check	SLD0370-CCV4	XDT_m1230425-063	NA	04/25/23 21:24
Calibration Blank	SLD0370-CCB4	XDT_m1230425-064	NA	04/25/23 21:32
Instrument Blank	SLD0370-IBL6	XDT_m1230425-074	NA	04/25/23 22:38
Calibration Check	SLD0370-CCV5	XDT_m1230425-075	NA	04/25/23 22:43
Calibration Blank	SLD0370-CCB5	XDT_m1230425-076	NA	04/25/23 22:51

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLD0370

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GD00066

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Check	SLD0370-CCV6	XDT_m1230425-078	NA	04/25/23 23:01
Calibration Blank	SLD0370-CCB6	XDT_m1230425-079	NA	04/25/23 23:09
ZZZZZ	23C0648-01	XDT_m1230425-085	Water	04/25/23 23:39
Instrument Blank	SLD0370-IBL7	XDT_m1230425-089	NA	04/26/23 00:01
Calibration Check	SLD0370-CCV7	XDT_m1230425-090	NA	04/26/23 00:06
Calibration Blank	SLD0370-CCB7	XDT_m1230425-091	NA	04/26/23 00:14
ZZZZZ	23C0674-02	XDT_m1230425-092	Water	04/26/23 00:19
Instrument Blank	SLD0370-IBL8	XDT_m1230425-100	NA	04/26/23 01:05
Instrument Blank	SLD0370-IBL9	XDT_m1230425-101	NA	04/26/23 01:10
Calibration Check	SLD0370-CCV8	XDT_m1230425-102	NA	04/26/23 01:15
Calibration Blank	SLD0370-CCB8	XDT_m1230425-103	NA	04/26/23 01:23
ZZZZZ	BLD0168-BLK1	XDT_m1230425-104	Solid	04/26/23 01:28
ZZZZZ	BLD0168-BS1	XDT_m1230425-105	Solid	04/26/23 01:33
ZZZZZ	23D0027-02	XDT_m1230425-109	Solid	04/26/23 01:53
ZZZZZ	23D0027-01	XDT_m1230425-110	Solid	04/26/23 01:58
ZZZZZ	BLD0168-DUP1	XDT_m1230425-111	Solid	04/26/23 02:03
ZZZZZ	BLD0168-MS1	XDT_m1230425-112	Solid	04/26/23 02:08
Instrument Blank	SLD0370-IBLA	XDT_m1230425-113	NA	04/26/23 02:13
Calibration Check	SLD0370-CCV9	XDT_m1230425-114	NA	04/26/23 02:18
Calibration Blank	SLD0370-CCB9	XDT_m1230425-115	NA	04/26/23 02:26
Calibration Check	SLD0370-CCVA	XDT_m1230425-117	NA	04/26/23 02:36
Calibration Blank	SLD0370-CCBA	XDT_m1230425-118	NA	04/26/23 02:44
Instrument Blank	SLD0370-IBLB	XDT_m1230425-122	NA	04/26/23 03:06
Instrument Blank	SLD0370-IBLC	XDT_m1230425-128	NA	04/26/23 03:37
Calibration Check	SLD0370-CCVB	XDT_m1230425-129	NA	04/26/23 03:42
Calibration Blank	SLD0370-CCBB	XDT_m1230425-130	NA	04/26/23 03:49
Instrument Blank	SLD0370-IBLD	XDT_m1230425-140	NA	04/26/23 04:42
Calibration Check	SLD0370-CCVC	XDT_m1230425-141	NA	04/26/23 04:47
Calibration Blank	SLD0370-CCBC	XDT_m1230425-142	NA	04/26/23 04:55

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLD0370
SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GD00066

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23C0678-02	XDT_m1230425-143	Water	04/26/23 05:00
ZZZZZ	23C0678-02	XDT_m1230425-143	Water	04/26/23 05:00
ZZZZZ	23C0678-02	XDT_m1230425-143	Water	04/26/23 05:00
ZZZZZ	23C0678-02	XDT_m1230425-143	Water	04/26/23 05:00
ZZZZZ	23C0678-02	XDT_m1230425-143	Water	04/26/23 05:00
ZZZZZ	23C0678-02	XDT_m1230425-143	Water	04/26/23 05:00
ZZZZZ	23C0678-12	XDT_m1230425-144	Water	04/26/23 05:05
ZZZZZ	23C0678-12	XDT_m1230425-144	Water	04/26/23 05:05
ZZZZZ	23C0678-12	XDT_m1230425-144	Water	04/26/23 05:05
ZZZZZ	23C0678-12	XDT_m1230425-144	Water	04/26/23 05:05
ZZZZZ	23C0678-12	XDT_m1230425-144	Water	04/26/23 05:05
ZZZZZ	23C0678-12	XDT_m1230425-144	Water	04/26/23 05:05
ZZZZZ	23C0678-13	XDT_m1230425-145	Water	04/26/23 05:10
ZZZZZ	23C0678-13	XDT_m1230425-145	Water	04/26/23 05:10
ZZZZZ	23C0678-13	XDT_m1230425-145	Water	04/26/23 05:10
ZZZZZ	23C0678-13	XDT_m1230425-145	Water	04/26/23 05:10
ZZZZZ	23C0678-13	XDT_m1230425-145	Water	04/26/23 05:10
ZZZZZ	23C0678-13	XDT_m1230425-145	Water	04/26/23 05:10
ZZZZZ	23C0678-18	XDT_m1230425-146	Water	04/26/23 05:16
ZZZZZ	23C0678-18	XDT_m1230425-146	Water	04/26/23 05:16
ZZZZZ	23C0678-18	XDT_m1230425-146	Water	04/26/23 05:16
ZZZZZ	23C0678-18	XDT_m1230425-146	Water	04/26/23 05:16
ZZZZZ	23C0678-18	XDT_m1230425-146	Water	04/26/23 05:16
ZZZZZ	23C0678-18	XDT_m1230425-146	Water	04/26/23 05:16
Instrument Blank	SLD0370-IBLE	XDT_m1230425-147	NA	04/26/23 05:21
ZZZZZ	23C0678-01	XDT_m1230425-148	Water	04/26/23 05:27
ZZZZZ	23C0678-01	XDT_m1230425-148	Water	04/26/23 05:27
ZZZZZ	23C0678-01	XDT_m1230425-148	Water	04/26/23 05:27
ZZZZZ	23C0678-01	XDT_m1230425-148	Water	04/26/23 05:27

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0370
Instrument: ICPMS1
Calibration: GD00066

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23C0678-01	XDT_m1230425-148	Water	04/26/23 05:27
ZZZZZ	23C0678-01	XDT_m1230425-148	Water	04/26/23 05:27
ZZZZZ	23C0678-11	XDT_m1230425-149	Water	04/26/23 05:31
ZZZZZ	23C0678-11	XDT_m1230425-149	Water	04/26/23 05:31
ZZZZZ	23C0678-11	XDT_m1230425-149	Water	04/26/23 05:31
ZZZZZ	23C0678-11	XDT_m1230425-149	Water	04/26/23 05:31
ZZZZZ	23C0678-11	XDT_m1230425-149	Water	04/26/23 05:31
ZZZZZ	23C0678-11	XDT_m1230425-149	Water	04/26/23 05:31
ZZZZZ	23C0678-10	XDT_m1230425-150	Water	04/26/23 05:37
ZZZZZ	23C0678-10	XDT_m1230425-150	Water	04/26/23 05:37
ZZZZZ	23C0678-10	XDT_m1230425-150	Water	04/26/23 05:37
ZZZZZ	23C0678-10	XDT_m1230425-150	Water	04/26/23 05:37
ZZZZZ	23C0678-10	XDT_m1230425-150	Water	04/26/23 05:37
ZZZZZ	23C0678-10	XDT_m1230425-150	Water	04/26/23 05:37
ZZZZZ	23C0678-17	XDT_m1230425-151	Water	04/26/23 05:43
ZZZZZ	23C0678-17	XDT_m1230425-151	Water	04/26/23 05:43
ZZZZZ	23C0678-17	XDT_m1230425-151	Water	04/26/23 05:43
ZZZZZ	23C0678-17	XDT_m1230425-151	Water	04/26/23 05:43
ZZZZZ	23C0678-17	XDT_m1230425-151	Water	04/26/23 05:43
ZZZZZ	23C0678-17	XDT_m1230425-151	Water	04/26/23 05:43
Instrument Blank	SLD0370-IBLF	XDT_m1230425-152	NA	04/26/23 05:48
Calibration Check	SLD0370-CCVD	XDT_m1230425-153	NA	04/26/23 05:53
Calibration Blank	SLD0370-CCBD	XDT_m1230425-154	NA	04/26/23 06:01
ZZZZZ	23D0062-01	XDT_m1230425-157	Water	04/26/23 06:17
ZZZZZ	23D0062-01	XDT_m1230425-157	Water	04/26/23 06:17
ZZZZZ	23D0062-01	XDT_m1230425-157	Water	04/26/23 06:17
ZZZZZ	23D0062-01	XDT_m1230425-157	Water	04/26/23 06:17
ZZZZZ	23D0062-01	XDT_m1230425-157	Water	04/26/23 06:17
ZZZZZ	23D0062-01	XDT_m1230425-157	Water	04/26/23 06:17

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0370
Instrument: ICPMS1
Calibration: GD00066

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0062-03	XDT_m1230425-158	Water	04/26/23 06:22
ZZZZZ	23D0062-03	XDT_m1230425-158	Water	04/26/23 06:22
ZZZZZ	23D0062-03	XDT_m1230425-158	Water	04/26/23 06:22
ZZZZZ	23D0062-03	XDT_m1230425-158	Water	04/26/23 06:22
ZZZZZ	23D0062-03	XDT_m1230425-158	Water	04/26/23 06:22
ZZZZZ	23D0062-03	XDT_m1230425-158	Water	04/26/23 06:22
ZZZZZ	23D0062-05	XDT_m1230425-159	Water	04/26/23 06:27
ZZZZZ	23D0062-05	XDT_m1230425-159	Water	04/26/23 06:27
ZZZZZ	23D0062-05	XDT_m1230425-159	Water	04/26/23 06:27
ZZZZZ	23D0062-05	XDT_m1230425-159	Water	04/26/23 06:27
ZZZZZ	23D0062-05	XDT_m1230425-159	Water	04/26/23 06:27
ZZZZZ	23D0062-05	XDT_m1230425-159	Water	04/26/23 06:27
ZZZZZ	23D0062-07	XDT_m1230425-160	Water	04/26/23 06:32
ZZZZZ	23D0062-07	XDT_m1230425-160	Water	04/26/23 06:32
ZZZZZ	23D0062-07	XDT_m1230425-160	Water	04/26/23 06:32
ZZZZZ	23D0062-07	XDT_m1230425-160	Water	04/26/23 06:32
ZZZZZ	23D0062-07	XDT_m1230425-160	Water	04/26/23 06:32
ZZZZZ	23D0062-07	XDT_m1230425-160	Water	04/26/23 06:32
ZZZZZ	BLD0472-DUP1	XDT_m1230425-161	Water	04/26/23 06:37
ZZZZZ	BLD0472-MS1	XDT_m1230425-162	Water	04/26/23 06:42
ZZZZZ	BLD0472-MSD1	XDT_m1230425-163	Water	04/26/23 06:49
Instrument Blank	SLD0370-IBLG	XDT_m1230425-164	NA	04/26/23 06:54
Calibration Check	SLD0370-CCVE	XDT_m1230425-165	NA	04/26/23 06:59
Calibration Blank	SLD0370-CCBE	XDT_m1230425-166	NA	04/26/23 07:07
Calibration Check	SLD0370-CCVF	XDT_m1230425-168	NA	04/26/23 07:17
Calibration Blank	SLD0370-CCBF	XDT_m1230425-169	NA	04/26/23 07:25
ZZZZZ	23C0658-02	XDT_m1230425-170	Water	04/26/23 07:30
ZZZZZ	23C0658-02	XDT_m1230425-170	Water	04/26/23 07:30
ZZZZZ	23C0658-02	XDT_m1230425-170	Water	04/26/23 07:30

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLD0370
SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GD00066

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23C0658-02	XDT_m1230425-170	Water	04/26/23 07:30
ZZZZZ	23C0658-02	XDT_m1230425-170	Water	04/26/23 07:30
ZZZZZ	23C0658-02	XDT_m1230425-170	Water	04/26/23 07:30
ZZZZZ	23C0658-02	XDT_m1230425-170	Water	04/26/23 07:30
ZZZZZ	23C0658-04	XDT_m1230425-171	Water	04/26/23 07:35
ZZZZZ	23C0658-04	XDT_m1230425-171	Water	04/26/23 07:35
ZZZZZ	23C0658-04	XDT_m1230425-171	Water	04/26/23 07:35
Instrument Blank	SLD0370-IBLH	XDT_m1230425-179	NA	04/26/23 08:17
Calibration Check	SLD0370-CCVG	XDT_m1230425-180	NA	04/26/23 08:22
Calibration Blank	SLD0370-CCBG	XDT_m1230425-181	NA	04/26/23 08:30
Blank	BLD0365-BLK1	XDT_m1230425-182	Solid	04/26/23 08:35
LCS	BLD0365-BS1	XDT_m1230425-183	Solid	04/26/23 08:40
ZZZZZ	23C0658-06	XDT_m1230425-185	Water	04/26/23 08:50
ZZZZZ	23C0658-06	XDT_m1230425-185	Water	04/26/23 08:50
ZZZZZ	23C0658-06	XDT_m1230425-185	Water	04/26/23 08:50
ZZZZZ	23C0678-09	XDT_m1230425-186	Water	04/26/23 08:55
ZZZZZ	23C0678-09	XDT_m1230425-186	Water	04/26/23 08:55
ZZZZZ	23C0678-09	XDT_m1230425-186	Water	04/26/23 08:55
ZZZZZ	23C0678-09	XDT_m1230425-186	Water	04/26/23 08:55
ZZZZZ	23C0678-09	XDT_m1230425-186	Water	04/26/23 08:55
ZZZZZ	23C0678-09	XDT_m1230425-186	Water	04/26/23 08:55
ZZZZZ	23C0678-08	XDT_m1230425-187	Water	04/26/23 09:00
ZZZZZ	23C0678-08	XDT_m1230425-187	Water	04/26/23 09:00
ZZZZZ	23C0678-08	XDT_m1230425-187	Water	04/26/23 09:00
ZZZZZ	23C0678-08	XDT_m1230425-187	Water	04/26/23 09:00
ZZZZZ	23C0678-08	XDT_m1230425-187	Water	04/26/23 09:00
ZZZZZ	23C0678-08	XDT_m1230425-187	Water	04/26/23 09:00
ZZZZZ	23C0741-01	XDT_m1230425-189	Water	04/26/23 09:10
ZZZZZ	23C0741-01	XDT_m1230425-189	Water	04/26/23 09:10

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0370
Instrument: ICPMS1
Calibration: GD00066

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23C0741-01	XDT_m1230425-189	Water	04/26/23 09:10
ZZZZZ	23C0741-01	XDT_m1230425-189	Water	04/26/23 09:10
ZZZZZ	23C0741-01	XDT_m1230425-189	Water	04/26/23 09:10
ZZZZZ	23C0741-01	XDT_m1230425-189	Water	04/26/23 09:10
Instrument Blank	SLD0370-IBLI	XDT_m1230425-191	NA	04/26/23 09:20
Calibration Check	SLD0370-CCVH	XDT_m1230425-192	NA	04/26/23 09:25
Calibration Blank	SLD0370-CCBH	XDT_m1230425-193	NA	04/26/23 09:33
Instrument Blank	SLD0370-IBLJ	XDT_m1230425-203	NA	04/26/23 10:25
Calibration Check	SLD0370-CCVI	XDT_m1230425-204	NA	04/26/23 10:31
Calibration Blank	SLD0370-CCBI	XDT_m1230425-205	NA	04/26/23 10:38
Instrument Blank	SLD0370-IBLK	XDT_m1230425-214	NA	04/26/23 11:26
Calibration Check	SLD0370-CCVJ	XDT_m1230425-215	NA	04/26/23 11:31
Calibration Blank	SLD0370-CCBJ	XDT_m1230425-216	NA	04/26/23 11:38

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0387
Instrument: ICPMS1
Calibration: GD00073

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLD0387-CAL1	XDT_m1230426-013	NA	04/26/23 15:14
CAL 1 - LOW CHECK	SLD0387-CAL2	XDT_m1230426-014	NA	04/26/23 15:19
CAL 2	SLD0387-CAL3	XDT_m1230426-015	NA	04/26/23 15:24
CAL 3	SLD0387-CAL4	XDT_m1230426-016	NA	04/26/23 15:29
CAL 4	SLD0387-CAL5	XDT_m1230426-017	NA	04/26/23 15:34
CAL 5	SLD0387-CAL6	XDT_m1230426-018	NA	04/26/23 15:41
RINSE	SLD0387-IBL1	XDT_m1230426-019	NA	04/26/23 15:49
Initial Cal Check	SLD0387-ICV1	XDT_m1230426-021	NA	04/26/23 15:55
Initial Cal Blank	SLD0387-ICB1	XDT_m1230426-022	NA	04/26/23 16:03
Calibration Check	SLD0387-CCV1	XDT_m1230426-023	NA	04/26/23 16:08
Calibration Blank	SLD0387-CCB1	XDT_m1230426-024	NA	04/26/23 16:15
Instrument Blank	SLD0387-IBL2	XDT_m1230426-031	NA	04/26/23 16:55
Calibration Check	SLD0387-CCV2	XDT_m1230426-032	NA	04/26/23 17:02
Calibration Blank	SLD0387-CCB2	XDT_m1230426-033	NA	04/26/23 17:10
Calibration Check	SLD0387-CCV3	XDT_m1230426-035	NA	04/26/23 17:23
Calibration Blank	SLD0387-CCB3	XDT_m1230426-036	NA	04/26/23 17:29
Instrument RL Check	SLD0387-CRL1	XDT_m1230426-037	NA	04/26/23 17:34
Interference Check A	SLD0387-IFA1	XDT_m1230426-038	NA	04/26/23 17:39
Interference Check B	SLD0387-IFB1	XDT_m1230426-039	NA	04/26/23 17:44
LR200	SLD0387-HCV1	XDT_m1230426-040	NA	04/26/23 17:49
LR300	SLD0387-HCV2	XDT_m1230426-041	NA	04/26/23 17:54
Instrument Blank	SLD0387-IBL3	XDT_m1230426-042	NA	04/26/23 18:01
Calibration Check	SLD0387-CCV4	XDT_m1230426-043	NA	04/26/23 18:07
Calibration Blank	SLD0387-CCB4	XDT_m1230426-044	NA	04/26/23 18:14
Instrument Blank	SLD0387-IBL4	XDT_m1230426-054	NA	04/26/23 19:10
Calibration Check	SLD0387-CCV5	XDT_m1230426-055	NA	04/26/23 19:15
Calibration Blank	SLD0387-CCB5	XDT_m1230426-056	NA	04/26/23 19:23
Instrument Blank	SLD0387-IBL5	XDT_m1230426-066	NA	04/26/23 20:17
Calibration Check	SLD0387-CCV6	XDT_m1230426-067	NA	04/26/23 20:21

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLD0387

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GD00073

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SLD0387-CCB6	XDT_m1230426-068	NA	04/26/23 20:29
Instrument Blank	SLD0387-IBL6	XDT_m1230426-077	NA	04/26/23 21:24
Calibration Check	SLD0387-CCV7	XDT_m1230426-078	NA	04/26/23 21:29
Calibration Blank	SLD0387-CCB7	XDT_m1230426-079	NA	04/26/23 21:37
Calibration Check	SLD0387-CCV8	XDT_m1230426-081	NA	04/26/23 21:49
Calibration Blank	SLD0387-CCB8	XDT_m1230426-082	NA	04/26/23 21:57
Instrument Blank	SLD0387-IBL7	XDT_m1230426-092	NA	04/26/23 22:50
Calibration Check	SLD0387-CCV9	XDT_m1230426-093	NA	04/26/23 22:55
Calibration Blank	SLD0387-CCB9	XDT_m1230426-094	NA	04/26/23 23:02
Instrument Blank	SLD0387-IBL8	XDT_m1230426-104	NA	04/26/23 23:51
Calibration Check	SLD0387-CCVA	XDT_m1230426-105	NA	04/26/23 23:56
Calibration Blank	SLD0387-CCBA	XDT_m1230426-106	NA	04/27/23 00:03
Instrument Blank	SLD0387-IBL9	XDT_m1230426-116	NA	04/27/23 00:51
Calibration Check	SLD0387-CCVB	XDT_m1230426-117	NA	04/27/23 00:56
Calibration Blank	SLD0387-CCBB	XDT_m1230426-118	NA	04/27/23 01:03
LCS	BLD0365-BS2	XDT_m1230426-120	Solid	04/27/23 01:13
ZZZZZ	23C0674-01	XDT_m1230426-122	Water	04/27/23 01:23
ZZZZZ	23C0674-01	XDT_m1230426-122	Water	04/27/23 01:23
ZZZZZ	23C0674-01	XDT_m1230426-122	Water	04/27/23 01:23
ZZZZZ	23C0674-01	XDT_m1230426-122	Water	04/27/23 01:23
ZZZZZ	23C0648-02	XDT_m1230426-123	Water	04/27/23 01:28
Instrument Blank	SLD0387-IBLA	XDT_m1230426-128	NA	04/27/23 01:55
Calibration Check	SLD0387-CCVC	XDT_m1230426-129	NA	04/27/23 01:59
Calibration Blank	SLD0387-CCBC	XDT_m1230426-130	NA	04/27/23 02:07
ZZZZZ	23C0435-02	XDT_m1230426-131	Water	04/27/23 02:12
ZZZZZ	23C0435-04	XDT_m1230426-132	Water	04/27/23 02:16
ZZZZZ	23C0435-05	XDT_m1230426-133	Water	04/27/23 02:21
ZZZZZ	23C0435-06	XDT_m1230426-134	Water	04/27/23 02:28
Instrument Blank	SLD0387-IBLB	XDT_m1230426-135	NA	04/27/23 02:32

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLD0387
SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GD00073

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23C0435-07	XDT_m1230426-136	Water	04/27/23 02:37
ZZZZZ	23C0453-01	XDT_m1230426-137	Water	04/27/23 02:42
ZZZZZ	23C0453-02	XDT_m1230426-138	Water	04/27/23 02:47
ZZZZZ	23C0453-03	XDT_m1230426-139	Water	04/27/23 02:53
Instrument Blank	SLD0387-IBLC	XDT_m1230426-140	NA	04/27/23 02:58
Calibration Check	SLD0387-CCVD	XDT_m1230426-141	NA	04/27/23 03:02
Calibration Blank	SLD0387-CCBD	XDT_m1230426-142	NA	04/27/23 03:10
Calibration Check	SLD0387-CCVE	XDT_m1230426-144	NA	04/27/23 03:19
Calibration Blank	SLD0387-CCBE	XDT_m1230426-145	NA	04/27/23 03:27
Instrument Blank	SLD0387-IBLD	XDT_m1230426-151	NA	04/27/23 03:55
ZZZZZ	23C0453-04	XDT_m1230426-152	Water	04/27/23 04:00
ZZZZZ	23C0435-08	XDT_m1230426-153	Water	04/27/23 04:05
ZZZZZ	23C0435-03	XDT_m1230426-154	Water	04/27/23 04:11
Instrument Blank	SLD0387-IBLE	XDT_m1230426-155	NA	04/27/23 04:16
Calibration Check	SLD0387-CCVF	XDT_m1230426-156	NA	04/27/23 04:21
Calibration Blank	SLD0387-CCBF	XDT_m1230426-157	NA	04/27/23 04:28
ZZZZZ	23C0584-01	XDT_m1230426-160	Water	04/27/23 04:43
ZZZZZ	23C0584-01	XDT_m1230426-160	Water	04/27/23 04:43
ZZZZZ	23C0584-01	XDT_m1230426-160	Water	04/27/23 04:43
ZZZZZ	23C0584-01	XDT_m1230426-160	Water	04/27/23 04:43
ZZZZZ	BLD0180-DUP1	XDT_m1230426-161	Water	04/27/23 04:48
ZZZZZ	BLD0180-MS1	XDT_m1230426-162	Water	04/27/23 04:53
Instrument Blank	SLD0387-IBLF	XDT_m1230426-163	NA	04/27/23 04:58
ZZZZZ	23C0584-02	XDT_m1230426-164	Water	04/27/23 05:02
ZZZZZ	23C0584-02	XDT_m1230426-164	Water	04/27/23 05:02
ZZZZZ	23C0584-02	XDT_m1230426-164	Water	04/27/23 05:02
ZZZZZ	23C0584-02	XDT_m1230426-164	Water	04/27/23 05:02
ZZZZZ	23C0584-02	XDT_m1230426-164	Water	04/27/23 05:02
Instrument Blank	SLD0387-IBLG	XDT_m1230426-167	NA	04/27/23 05:17

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0387	Instrument:	ICPMS1
		Calibration:	GD00073

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Check	SLD0387-CCVG	XDT_m1230426-168	NA	04/27/23 05:22
Calibration Blank	SLD0387-CCBG	XDT_m1230426-169	NA	04/27/23 05:29
Instrument Blank	SLD0387-IBLH	XDT_m1230426-174	NA	04/27/23 05:55
Instrument Blank	SLD0387-IBLI	XDT_m1230426-179	NA	04/27/23 06:20
Calibration Check	SLD0387-CCVH	XDT_m1230426-180	NA	04/27/23 06:25
Calibration Blank	SLD0387-CCBH	XDT_m1230426-181	NA	04/27/23 06:33

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0418	Instrument:	ICPMS1
		Calibration:	GD00078

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLD0418-CAL1	XDT_m1230427A-003	NA	04/27/23 16:58
CAL 1 - LOW CHECK	SLD0418-CAL2	XDT_m1230427A-004	NA	04/27/23 17:02
CAL 2	SLD0418-CAL3	XDT_m1230427A-005	NA	04/27/23 17:07
CAL 3	SLD0418-CAL4	XDT_m1230427A-006	NA	04/27/23 17:13
CAL 4	SLD0418-CAL5	XDT_m1230427A-007	NA	04/27/23 17:18
CAL 5	SLD0418-CAL6	XDT_m1230427A-008	NA	04/27/23 17:25
RINSE	SLD0418-IBL1	XDT_m1230427A-009	NA	04/27/23 17:32
Initial Cal Check	SLD0418-ICV1	XDT_m1230427A-012	NA	04/27/23 17:46
Initial Cal Blank	SLD0418-ICB1	XDT_m1230427A-013	NA	04/27/23 17:54
Calibration Check	SLD0418-CCV1	XDT_m1230427A-014	NA	04/27/23 18:00
Calibration Blank	SLD0418-CCB1	XDT_m1230427A-015	NA	04/27/23 18:07
Calibration Check	SLD0418-CCV2	XDT_m1230427A-020	NA	04/27/23 18:37
Calibration Blank	SLD0418-CCB2	XDT_m1230427A-021	NA	04/27/23 18:45
Instrument RL Check	SLD0418-CRL1	XDT_m1230427A-022	NA	04/27/23 18:51
Interference Check B	SLD0418-IFB1	XDT_m1230427A-024	NA	04/27/23 19:01
LR200	SLD0418-HCV1	XDT_m1230427A-025	NA	04/27/23 19:06
LR300	SLD0418-HCV2	XDT_m1230427A-026	NA	04/27/23 19:11
Instrument Blank	SLD0418-IBL2	XDT_m1230427A-027	NA	04/27/23 19:18
Interference Check A	SLD0418-IFA1	XDT_m1230427A-028	NA	04/27/23 19:25
Instrument Blank	SLD0418-IBL3	XDT_m1230427A-029	NA	04/27/23 19:30
Calibration Check	SLD0418-CCV3	XDT_m1230427A-030	NA	04/27/23 19:36
Calibration Blank	SLD0418-CCB3	XDT_m1230427A-031	NA	04/27/23 19:46
Instrument Blank	SLD0418-IBL4	XDT_m1230427A-041	NA	04/27/23 20:41
Calibration Check	SLD0418-CCV4	XDT_m1230427A-042	NA	04/27/23 20:46
Calibration Blank	SLD0418-CCB4	XDT_m1230427A-043	NA	04/27/23 20:54
Instrument Blank	SLD0418-IBL5	XDT_m1230427A-051	NA	04/27/23 21:36
Calibration Check	SLD0418-CCV5	XDT_m1230427A-052	NA	04/27/23 21:42
Calibration Blank	SLD0418-CCB5	XDT_m1230427A-053	NA	04/27/23 21:49
Calibration Check	SLD0418-CCV6	XDT_m1230427A-055	NA	04/27/23 22:09

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLD0418
SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GD00078

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SLD0418-CCB6	XDT_m1230427A-056	NA	04/27/23 22:16
ZZZZZ	23A0295-08	XDT_m1230427A-057	Solid	04/27/23 22:22
ZZZZZ	23C0774-02	XDT_m1230427A-058	Solid	04/27/23 22:29
ZZZZZ	23C0774-02	XDT_m1230427A-058	Solid	04/27/23 22:29
ZZZZZ	23C0774-02	XDT_m1230427A-058	Solid	04/27/23 22:29
ZZZZZ	23C0774-02	XDT_m1230427A-058	Solid	04/27/23 22:29
ZZZZZ	23C0774-03	XDT_m1230427A-059	Solid	04/27/23 22:34
ZZZZZ	23C0774-03	XDT_m1230427A-059	Solid	04/27/23 22:34
ZZZZZ	23C0774-03	XDT_m1230427A-059	Solid	04/27/23 22:34
ZZZZZ	23C0774-03	XDT_m1230427A-059	Solid	04/27/23 22:34
ZZZZZ	23C0774-04	XDT_m1230427A-060	Solid	04/27/23 22:40
ZZZZZ	23C0774-04	XDT_m1230427A-060	Solid	04/27/23 22:40
ZZZZZ	23C0774-04	XDT_m1230427A-060	Solid	04/27/23 22:40
ZZZZZ	23C0774-04	XDT_m1230427A-060	Solid	04/27/23 22:40
ZZZZZ	23C0774-01	XDT_m1230427A-061	Solid	04/27/23 22:44
ZZZZZ	23C0774-01	XDT_m1230427A-061	Solid	04/27/23 22:44
ZZZZZ	23C0774-01	XDT_m1230427A-061	Solid	04/27/23 22:44
ZZZZZ	23C0774-01	XDT_m1230427A-061	Solid	04/27/23 22:44
Instrument Blank	SLD0418-IBL7	XDT_m1230427A-066	NA	04/27/23 23:06
Calibration Check	SLD0418-CCV7	XDT_m1230427A-067	NA	04/27/23 23:11
Calibration Blank	SLD0418-CCB7	XDT_m1230427A-068	NA	04/27/23 23:18
ZZZZZ	BLD0394-BLK1	XDT_m1230427A-069	Solid	04/27/23 23:22
ZZZZZ	BLD0394-BS1	XDT_m1230427A-070	Solid	04/27/23 23:27
ZZZZZ	23C0774-05	XDT_m1230427A-071	Solid	04/27/23 23:31
ZZZZZ	23C0774-05	XDT_m1230427A-071	Solid	04/27/23 23:31
ZZZZZ	23C0774-05	XDT_m1230427A-071	Solid	04/27/23 23:31
ZZZZZ	23C0774-05	XDT_m1230427A-071	Solid	04/27/23 23:31
ZZZZZ	23C0774-06	XDT_m1230427A-072	Solid	04/27/23 23:35
ZZZZZ	23C0774-06	XDT_m1230427A-072	Solid	04/27/23 23:35

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0418
Instrument: ICPMS1
Calibration: GD00078

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23C0774-06	XDT_m1230427A-072	Solid	04/27/23 23:35
ZZZZZ	23C0774-06	XDT_m1230427A-072	Solid	04/27/23 23:35
ZZZZZ	23C0774-07	XDT_m1230427A-073	Solid	04/27/23 23:40
ZZZZZ	23C0774-07	XDT_m1230427A-073	Solid	04/27/23 23:40
ZZZZZ	23C0774-07	XDT_m1230427A-073	Solid	04/27/23 23:40
ZZZZZ	23C0774-07	XDT_m1230427A-073	Solid	04/27/23 23:40
ZZZZZ	23C0774-08	XDT_m1230427A-074	Solid	04/27/23 23:44
ZZZZZ	23C0774-08	XDT_m1230427A-074	Solid	04/27/23 23:44
ZZZZZ	23C0774-08	XDT_m1230427A-074	Solid	04/27/23 23:44
ZZZZZ	23C0774-08	XDT_m1230427A-074	Solid	04/27/23 23:44
ZZZZZ	23C0774-09	XDT_m1230427A-075	Solid	04/27/23 23:49
ZZZZZ	23C0774-09	XDT_m1230427A-075	Solid	04/27/23 23:49
ZZZZZ	23C0774-09	XDT_m1230427A-075	Solid	04/27/23 23:49
ZZZZZ	23C0774-09	XDT_m1230427A-075	Solid	04/27/23 23:49
ZZZZZ	23C0774-10	XDT_m1230427A-076	Solid	04/27/23 23:53
ZZZZZ	23C0774-10	XDT_m1230427A-076	Solid	04/27/23 23:53
ZZZZZ	23C0774-10	XDT_m1230427A-076	Solid	04/27/23 23:53
ZZZZZ	23C0774-10	XDT_m1230427A-076	Solid	04/27/23 23:53
ZZZZZ	23C0774-11	XDT_m1230427A-077	Solid	04/27/23 23:58
ZZZZZ	23C0774-11	XDT_m1230427A-077	Solid	04/27/23 23:58
ZZZZZ	23C0774-11	XDT_m1230427A-077	Solid	04/27/23 23:58
ZZZZZ	23C0774-11	XDT_m1230427A-077	Solid	04/27/23 23:58
Instrument Blank	SLD0418-IBL8	XDT_m1230427A-078	NA	04/28/23 00:02
Calibration Check	SLD0418-CCV8	XDT_m1230427A-079	NA	04/28/23 00:06
Calibration Blank	SLD0418-CCB8	XDT_m1230427A-080	NA	04/28/23 00:14
ZZZZZ	23C0774-12	XDT_m1230427A-081	Solid	04/28/23 00:18
ZZZZZ	23C0774-12	XDT_m1230427A-081	Solid	04/28/23 00:18
ZZZZZ	23C0774-12	XDT_m1230427A-081	Solid	04/28/23 00:18
ZZZZZ	23C0774-12	XDT_m1230427A-081	Solid	04/28/23 00:18

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0418
Instrument: ICPMS1
Calibration: GD00078

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23C0774-13	XDT_m1230427A-082	Solid	04/28/23 00:22
ZZZZZ	23C0774-13	XDT_m1230427A-082	Solid	04/28/23 00:22
ZZZZZ	23C0774-13	XDT_m1230427A-082	Solid	04/28/23 00:22
ZZZZZ	23C0774-13	XDT_m1230427A-082	Solid	04/28/23 00:22
ZZZZZ	23C0774-14	XDT_m1230427A-083	Solid	04/28/23 00:27
ZZZZZ	23C0774-14	XDT_m1230427A-083	Solid	04/28/23 00:27
ZZZZZ	23C0774-14	XDT_m1230427A-083	Solid	04/28/23 00:27
ZZZZZ	23C0774-14	XDT_m1230427A-083	Solid	04/28/23 00:27
ZZZZZ	23A0326-02	XDT_m1230427A-084	Solid	04/28/23 00:31
ZZZZZ	23A0326-02	XDT_m1230427A-084	Solid	04/28/23 00:31
ZZZZZ	23A0326-02	XDT_m1230427A-084	Solid	04/28/23 00:31
ZZZZZ	23A0326-02	XDT_m1230427A-084	Solid	04/28/23 00:31
ZZZZZ	23A0326-01	XDT_m1230427A-085	Solid	04/28/23 00:36
ZZZZZ	23A0326-01	XDT_m1230427A-085	Solid	04/28/23 00:36
ZZZZZ	23A0326-01	XDT_m1230427A-085	Solid	04/28/23 00:36
ZZZZZ	23A0326-01	XDT_m1230427A-085	Solid	04/28/23 00:36
ZZZZZ	BLD0394-DUP1	XDT_m1230427A-086	Solid	04/28/23 00:40
ZZZZZ	BLD0394-MS1	XDT_m1230427A-087	Solid	04/28/23 00:45
ZZZZZ	BLD0394-MSD1	XDT_m1230427A-088	Solid	04/28/23 00:49
Instrument Blank	SLD0418-IBL9	XDT_m1230427A-090	NA	04/28/23 00:58
Calibration Check	SLD0418-CCV9	XDT_m1230427A-091	NA	04/28/23 01:02
Calibration Blank	SLD0418-CCB9	XDT_m1230427A-092	NA	04/28/23 01:10
ZZZZZ	23A0326-04	XDT_m1230427A-097	Solid	04/28/23 01:32
ZZZZZ	23A0326-04	XDT_m1230427A-097	Solid	04/28/23 01:32
ZZZZZ	23A0326-04	XDT_m1230427A-097	Solid	04/28/23 01:32
ZZZZZ	23A0326-04	XDT_m1230427A-097	Solid	04/28/23 01:32
ZZZZZ	23A0326-05	XDT_m1230427A-098	Solid	04/28/23 01:36
ZZZZZ	23A0326-05	XDT_m1230427A-098	Solid	04/28/23 01:36
ZZZZZ	23A0326-05	XDT_m1230427A-098	Solid	04/28/23 01:36

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLD0418

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GD00078

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0326-05	XDT_m1230427A-098	Solid	04/28/23 01:36
ZZZZZ	23A0326-10	XDT_m1230427A-099	Solid	04/28/23 01:41
ZZZZZ	23A0326-10	XDT_m1230427A-099	Solid	04/28/23 01:41
ZZZZZ	23A0326-10	XDT_m1230427A-099	Solid	04/28/23 01:41
ZZZZZ	23A0326-10	XDT_m1230427A-099	Solid	04/28/23 01:41
ZZZZZ	23A0326-11	XDT_m1230427A-100	Solid	04/28/23 01:45
ZZZZZ	23A0326-11	XDT_m1230427A-100	Solid	04/28/23 01:45
ZZZZZ	23A0326-11	XDT_m1230427A-100	Solid	04/28/23 01:45
ZZZZZ	23A0326-11	XDT_m1230427A-100	Solid	04/28/23 01:45
ZZZZZ	23A0326-12	XDT_m1230427A-101	Solid	04/28/23 01:49
ZZZZZ	23A0326-12	XDT_m1230427A-101	Solid	04/28/23 01:49
ZZZZZ	23A0326-12	XDT_m1230427A-101	Solid	04/28/23 01:49
ZZZZZ	23A0326-12	XDT_m1230427A-101	Solid	04/28/23 01:49
Instrument Blank	SLD0418-IBLA	XDT_m1230427A-102	NA	04/28/23 01:54
Calibration Check	SLD0418-CCVA	XDT_m1230427A-103	NA	04/28/23 01:58
Calibration Blank	SLD0418-CCBA	XDT_m1230427A-104	NA	04/28/23 02:06
ZZZZZ	23A0326-08	XDT_m1230427A-107	Solid	04/28/23 02:19
ZZZZZ	23A0326-09	XDT_m1230427A-108	Solid	04/28/23 02:23
ZZZZZ	23A0418-01	XDT_m1230427A-109	Solid	04/28/23 02:28
ZZZZZ	23A0418-02	XDT_m1230427A-110	Solid	04/28/23 02:32
ZZZZZ	23A0418-04	XDT_m1230427A-111	Solid	04/28/23 02:37
ZZZZZ	23A0418-05	XDT_m1230427A-112	Solid	04/28/23 02:41
ZZZZZ	23A0418-06	XDT_m1230427A-113	Solid	04/28/23 02:45
Instrument Blank	SLD0418-IBLB	XDT_m1230427A-114	NA	04/28/23 02:50
Calibration Check	SLD0418-CCVB	XDT_m1230427A-115	NA	04/28/23 02:54
Calibration Blank	SLD0418-CCBB	XDT_m1230427A-116	NA	04/28/23 03:01
Calibration Check	SLD0418-CCVC	XDT_m1230427A-118	NA	04/28/23 03:10
Calibration Blank	SLD0418-CCBC	XDT_m1230427A-119	NA	04/28/23 03:18
ZZZZZ	23A0418-07	XDT_m1230427A-123	Solid	04/28/23 03:35

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLD0418

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GD00078

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0418-08	XDT_m1230427A-124	Solid	04/28/23 03:40
ZZZZZ	23A0418-09	XDT_m1230427A-125	Solid	04/28/23 03:44
ZZZZZ	23A0418-10	XDT_m1230427A-126	Solid	04/28/23 03:48
ZZZZZ	23A0418-11	XDT_m1230427A-127	Solid	04/28/23 03:53
ZZZZZ	23A0418-12	XDT_m1230427A-128	Solid	04/28/23 03:57
Instrument Blank	SLD0418-IBLD	XDT_m1230427A-129	NA	04/28/23 04:02
Calibration Check	SLD0418-CCVD	XDT_m1230427A-130	NA	04/28/23 04:06
Calibration Blank	SLD0418-CCBD	XDT_m1230427A-131	NA	04/28/23 04:13
Instrument Blank	SLD0418-IBLE	XDT_m1230427A-141	NA	04/28/23 04:58
Calibration Check	SLD0418-CCVE	XDT_m1230427A-142	NA	04/28/23 05:03
Calibration Blank	SLD0418-CCBE	XDT_m1230427A-143	NA	04/28/23 05:10
Instrument Blank	SLD0418-IBLF	XDT_m1230427A-153	NA	04/28/23 05:54
Calibration Check	SLD0418-CCVF	XDT_m1230427A-154	NA	04/28/23 05:58
Calibration Blank	SLD0418-CCBF	XDT_m1230427A-155	NA	04/28/23 06:05
Instrument Blank	SLD0418-IBLG	XDT_m1230427A-165	NA	04/28/23 06:50
Calibration Check	SLD0418-CCVG	XDT_m1230427A-166	NA	04/28/23 06:54
Calibration Blank	SLD0418-CCBG	XDT_m1230427A-167	NA	04/28/23 07:02
Calibration Check	SLD0418-CCVH	XDT_m1230427A-169	NA	04/28/23 07:10
Calibration Blank	SLD0418-CCBH	XDT_m1230427A-170	NA	04/28/23 07:18
Instrument Blank	SLD0418-IBLI	XDT_m1230427A-180	NA	04/28/23 08:03
Calibration Check	SLD0418-CCVI	XDT_m1230427A-181	NA	04/28/23 08:07
Calibration Blank	SLD0418-CCBI	XDT_m1230427A-182	NA	04/28/23 08:15
Instrument Blank	SLD0418-IBLJ	XDT_m1230427A-192	NA	04/28/23 09:01
Calibration Check	SLD0418-CCVJ	XDT_m1230427A-193	NA	04/28/23 09:06
Calibration Blank	SLD0418-CCBJ	XDT_m1230427A-194	NA	04/28/23 09:13
Instrument Blank	SLD0418-IBLK	XDT_m1230427A-204	NA	04/28/23 09:58
Calibration Check	SLD0418-CCVK	XDT_m1230427A-205	NA	04/28/23 10:03
Calibration Blank	SLD0418-CCBK	XDT_m1230427A-206	NA	04/28/23 10:10
Instrument Blank	SLD0418-IBLL	XDT_m1230427A-216	NA	04/28/23 10:57

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLD0418

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GD00078

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Check	SLD0418-CCVL	XDT_m1230427A-217	NA	04/28/23 11:02
Calibration Blank	SLD0418-CCBL	XDT_m1230427A-218	NA	04/28/23 11:09
Instrument Blank	SLD0418-IBLM	XDT_m1230427A-221	NA	04/28/23 11:25
Instrument Blank	SLD0418-IBLN	XDT_m1230427A-224	NA	04/28/23 11:43
Instrument Blank	SLD0418-IBLO	XDT_m1230427A-225	NA	04/28/23 11:50
Calibration Check	SLD0418-CCVM	XDT_m1230427A-227	NA	04/28/23 11:59
Calibration Blank	SLD0418-CCBM	XDT_m1230427A-228	NA	04/28/23 12:06

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0043	Instrument:	ICPMS1
		Calibration:	GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLE0043-CAL1	XDT_m1230502-013	NA	05/02/23 13:47
CAL 1 - LOW CHECK	SLE0043-CAL2	XDT_m1230502-014	NA	05/02/23 13:52
CAL 2	SLE0043-CAL3	XDT_m1230502-015	NA	05/02/23 13:56
CAL 3	SLE0043-CAL4	XDT_m1230502-016	NA	05/02/23 14:01
CAL 4	SLE0043-CAL5	XDT_m1230502-017	NA	05/02/23 14:06
CAL 5	SLE0043-CAL6	XDT_m1230502-018	NA	05/02/23 14:12
RINSE	SLE0043-IBL1	XDT_m1230502-019	NA	05/02/23 14:19
Initial Cal Check	SLE0043-ICV1	XDT_m1230502-021	NA	05/02/23 14:30
Initial Cal Blank	SLE0043-ICB1	XDT_m1230502-022	NA	05/02/23 14:37
Calibration Check	SLE0043-CCV1	XDT_m1230502-023	NA	05/02/23 14:42
Calibration Blank	SLE0043-CCB1	XDT_m1230502-024	NA	05/02/23 14:49
Instrument RL Check	SLE0043-CRL1	XDT_m1230502-026	NA	05/02/23 15:04
Interference Check A	SLE0043-IFA1	XDT_m1230502-027	NA	05/02/23 15:08
Interference Check B	SLE0043-IFB1	XDT_m1230502-028	NA	05/02/23 15:13
LR200	SLE0043-HCV1	XDT_m1230502-029	NA	05/02/23 15:18
LR300	SLE0043-HCV2	XDT_m1230502-030	NA	05/02/23 15:22
Instrument Blank	SLE0043-IBL2	XDT_m1230502-031	NA	05/02/23 15:31
Instrument Blank	SLE0043-IBL3	XDT_m1230502-032	NA	05/02/23 15:37
Calibration Check	SLE0043-CCV2	XDT_m1230502-034	NA	05/02/23 15:50
Calibration Blank	SLE0043-CCB2	XDT_m1230502-035	NA	05/02/23 15:57
ZZZZZ	BLE0054-BLK1	XDT_m1230502-038	Water	05/02/23 16:12
ZZZZZ	BLE0054-BS1	XDT_m1230502-040	Water	05/02/23 16:23
Instrument Blank	SLE0043-IBL4	XDT_m1230502-044	NA	05/02/23 16:49
Calibration Check	SLE0043-CCV3	XDT_m1230502-045	NA	05/02/23 16:54
Calibration Blank	SLE0043-CCB3	XDT_m1230502-046	NA	05/02/23 17:01
Calibration Check	SLE0043-CCV4	XDT_m1230502-048	NA	05/02/23 17:11
Calibration Blank	SLE0043-CCB4	XDT_m1230502-049	NA	05/02/23 17:18
ZZZZZ	23A0417-02	XDT_m1230502-050	Solid	05/02/23 17:24
ZZZZZ	23A0417-02	XDT_m1230502-050	Solid	05/02/23 17:24

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0043
SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0417-02	XDT_m1230502-050	Solid	05/02/23 17:24
ZZZZZ	23A0417-02	XDT_m1230502-050	Solid	05/02/23 17:24
ZZZZZ	23A0417-03	XDT_m1230502-051	Solid	05/02/23 17:28
ZZZZZ	23A0417-03	XDT_m1230502-051	Solid	05/02/23 17:28
ZZZZZ	23A0417-03	XDT_m1230502-051	Solid	05/02/23 17:28
ZZZZZ	23A0417-03	XDT_m1230502-051	Solid	05/02/23 17:28
ZZZZZ	23A0417-04	XDT_m1230502-052	Solid	05/02/23 17:32
ZZZZZ	23A0417-04	XDT_m1230502-052	Solid	05/02/23 17:32
ZZZZZ	23A0417-04	XDT_m1230502-052	Solid	05/02/23 17:32
ZZZZZ	23A0417-04	XDT_m1230502-052	Solid	05/02/23 17:32
ZZZZZ	23A0417-05	XDT_m1230502-053	Solid	05/02/23 17:37
ZZZZZ	23A0417-05	XDT_m1230502-053	Solid	05/02/23 17:37
ZZZZZ	23A0417-05	XDT_m1230502-053	Solid	05/02/23 17:37
ZZZZZ	23A0417-05	XDT_m1230502-053	Solid	05/02/23 17:37
ZZZZZ	23A0417-06	XDT_m1230502-054	Solid	05/02/23 17:41
ZZZZZ	23A0417-06	XDT_m1230502-054	Solid	05/02/23 17:41
ZZZZZ	23A0417-06	XDT_m1230502-054	Solid	05/02/23 17:41
ZZZZZ	23A0417-06	XDT_m1230502-054	Solid	05/02/23 17:41
ZZZZZ	23A0417-07	XDT_m1230502-055	Solid	05/02/23 17:46
ZZZZZ	23A0417-07	XDT_m1230502-055	Solid	05/02/23 17:46
ZZZZZ	23A0417-07	XDT_m1230502-055	Solid	05/02/23 17:46
ZZZZZ	23A0417-07	XDT_m1230502-055	Solid	05/02/23 17:46
ZZZZZ	23A0417-08	XDT_m1230502-056	Solid	05/02/23 17:50
ZZZZZ	23A0417-08	XDT_m1230502-056	Solid	05/02/23 17:50
ZZZZZ	23A0417-08	XDT_m1230502-056	Solid	05/02/23 17:50
ZZZZZ	23A0417-09	XDT_m1230502-057	Solid	05/02/23 17:55
ZZZZZ	23A0417-09	XDT_m1230502-057	Solid	05/02/23 17:55
ZZZZZ	23A0417-09	XDT_m1230502-057	Solid	05/02/23 17:55
ZZZZZ	23A0417-09	XDT_m1230502-057	Solid	05/02/23 17:55

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0043

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0417-10	XDT_m1230502-058	Solid	05/02/23 17:59
ZZZZZ	23A0417-10	XDT_m1230502-058	Solid	05/02/23 17:59
ZZZZZ	23A0417-10	XDT_m1230502-058	Solid	05/02/23 17:59
ZZZZZ	23A0417-10	XDT_m1230502-058	Solid	05/02/23 17:59
ZZZZZ	23A0417-11	XDT_m1230502-059	Solid	05/02/23 18:03
ZZZZZ	23A0417-11	XDT_m1230502-059	Solid	05/02/23 18:03
ZZZZZ	23A0417-11	XDT_m1230502-059	Solid	05/02/23 18:03
ZZZZZ	23A0417-11	XDT_m1230502-059	Solid	05/02/23 18:03
Calibration Check	SLE0043-CCV5	XDT_m1230502-060	NA	05/02/23 18:09
Calibration Blank	SLE0043-CCB5	XDT_m1230502-061	NA	05/02/23 18:16
ZZZZZ	23A0417-12	XDT_m1230502-062	Solid	05/02/23 18:24
ZZZZZ	23A0417-12	XDT_m1230502-062	Solid	05/02/23 18:24
ZZZZZ	23A0417-12	XDT_m1230502-062	Solid	05/02/23 18:24
ZZZZZ	23A0417-12	XDT_m1230502-062	Solid	05/02/23 18:24
ZZZZZ	23A0417-13	XDT_m1230502-063	Solid	05/02/23 18:28
ZZZZZ	23A0417-13	XDT_m1230502-063	Solid	05/02/23 18:28
ZZZZZ	23A0417-13	XDT_m1230502-063	Solid	05/02/23 18:28
ZZZZZ	23A0417-13	XDT_m1230502-063	Solid	05/02/23 18:28
ZZZZZ	23A0417-14	XDT_m1230502-064	Solid	05/02/23 18:33
ZZZZZ	23A0417-14	XDT_m1230502-064	Solid	05/02/23 18:33
ZZZZZ	23A0417-14	XDT_m1230502-064	Solid	05/02/23 18:33
ZZZZZ	23A0417-14	XDT_m1230502-064	Solid	05/02/23 18:33
ZZZZZ	23A0417-15	XDT_m1230502-065	Solid	05/02/23 18:37
ZZZZZ	23A0417-15	XDT_m1230502-065	Solid	05/02/23 18:37
ZZZZZ	23A0417-15	XDT_m1230502-065	Solid	05/02/23 18:37
ZZZZZ	23A0417-15	XDT_m1230502-065	Solid	05/02/23 18:37
ZZZZZ	23A0420-01	XDT_m1230502-066	Solid	05/02/23 18:42
ZZZZZ	23A0420-01	XDT_m1230502-066	Solid	05/02/23 18:42
ZZZZZ	23A0420-01	XDT_m1230502-066	Solid	05/02/23 18:42

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0043
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0420-01	XDT_m1230502-066	Solid	05/02/23 18:42
ZZZZZ	23A0420-07	XDT_m1230502-067	Solid	05/02/23 18:46
ZZZZZ	23A0420-07	XDT_m1230502-067	Solid	05/02/23 18:46
ZZZZZ	23A0420-07	XDT_m1230502-067	Solid	05/02/23 18:46
ZZZZZ	23A0420-07	XDT_m1230502-067	Solid	05/02/23 18:46
ZZZZZ	23A0420-08	XDT_m1230502-068	Solid	05/02/23 18:50
ZZZZZ	23A0420-08	XDT_m1230502-068	Solid	05/02/23 18:50
ZZZZZ	23A0420-08	XDT_m1230502-068	Solid	05/02/23 18:50
ZZZZZ	23A0420-08	XDT_m1230502-068	Solid	05/02/23 18:50
ZZZZZ	23A0420-09	XDT_m1230502-069	Solid	05/02/23 18:55
ZZZZZ	23A0420-09	XDT_m1230502-069	Solid	05/02/23 18:55
ZZZZZ	23A0420-09	XDT_m1230502-069	Solid	05/02/23 18:55
ZZZZZ	23A0420-09	XDT_m1230502-069	Solid	05/02/23 18:55
ZZZZZ	23A0419-02	XDT_m1230502-070	Solid	05/02/23 18:59
ZZZZZ	23A0419-02	XDT_m1230502-070	Solid	05/02/23 18:59
ZZZZZ	23A0419-02	XDT_m1230502-070	Solid	05/02/23 18:59
ZZZZZ	23A0419-02	XDT_m1230502-070	Solid	05/02/23 18:59
ZZZZZ	23A0419-03	XDT_m1230502-071	Solid	05/02/23 19:04
ZZZZZ	23A0419-03	XDT_m1230502-071	Solid	05/02/23 19:04
ZZZZZ	23A0419-03	XDT_m1230502-071	Solid	05/02/23 19:04
ZZZZZ	23A0419-03	XDT_m1230502-071	Solid	05/02/23 19:04
Calibration Check	SLE0043-CCV6	XDT_m1230502-072	NA	05/02/23 19:09
Calibration Blank	SLE0043-CCB6	XDT_m1230502-073	NA	05/02/23 19:16
ZZZZZ	23A0419-01	XDT_m1230502-074	Solid	05/02/23 19:21
ZZZZZ	BLD0452-DUP2	XDT_m1230502-075	Solid	05/02/23 19:25
ZZZZZ	BLD0452-MS2	XDT_m1230502-076	Solid	05/02/23 19:30
ZZZZZ	BLD0452-MSD2	XDT_m1230502-077	Solid	05/02/23 19:34
ZZZZZ	23A0420-04	XDT_m1230502-079	Solid	05/02/23 19:43
ZZZZZ	23A0419-04	XDT_m1230502-080	Solid	05/02/23 19:47

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0043
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0419-04	XDT_m1230502-080	Solid	05/02/23 19:47
ZZZZZ	23A0419-04	XDT_m1230502-080	Solid	05/02/23 19:47
ZZZZZ	23A0419-04	XDT_m1230502-080	Solid	05/02/23 19:47
ZZZZZ	23A0419-05	XDT_m1230502-081	Solid	05/02/23 19:52
ZZZZZ	23A0419-05	XDT_m1230502-081	Solid	05/02/23 19:52
ZZZZZ	23A0419-05	XDT_m1230502-081	Solid	05/02/23 19:52
ZZZZZ	23A0419-05	XDT_m1230502-081	Solid	05/02/23 19:52
ZZZZZ	23A0419-06	XDT_m1230502-082	Solid	05/02/23 19:56
ZZZZZ	23A0419-06	XDT_m1230502-082	Solid	05/02/23 19:56
ZZZZZ	23A0419-06	XDT_m1230502-082	Solid	05/02/23 19:56
ZZZZZ	23A0419-06	XDT_m1230502-082	Solid	05/02/23 19:56
ZZZZZ	23A0419-07	XDT_m1230502-083	Solid	05/02/23 20:00
ZZZZZ	23A0419-07	XDT_m1230502-083	Solid	05/02/23 20:00
ZZZZZ	23A0419-07	XDT_m1230502-083	Solid	05/02/23 20:00
ZZZZZ	23A0419-07	XDT_m1230502-083	Solid	05/02/23 20:00
Calibration Check	SLE0043-CCV7	XDT_m1230502-084	NA	05/02/23 20:06
Calibration Blank	SLE0043-CCB7	XDT_m1230502-085	NA	05/02/23 20:13
ZZZZZ	23A0419-08	XDT_m1230502-086	Solid	05/02/23 20:18
ZZZZZ	23A0419-08	XDT_m1230502-086	Solid	05/02/23 20:18
ZZZZZ	23A0419-08	XDT_m1230502-086	Solid	05/02/23 20:18
ZZZZZ	23A0419-08	XDT_m1230502-086	Solid	05/02/23 20:18
ZZZZZ	23A0419-09	XDT_m1230502-087	Solid	05/02/23 20:22
ZZZZZ	23A0419-09	XDT_m1230502-087	Solid	05/02/23 20:22
ZZZZZ	23A0419-09	XDT_m1230502-087	Solid	05/02/23 20:22
ZZZZZ	23A0419-09	XDT_m1230502-087	Solid	05/02/23 20:22
ZZZZZ	23A0419-10	XDT_m1230502-088	Solid	05/02/23 20:26
ZZZZZ	23A0419-10	XDT_m1230502-088	Solid	05/02/23 20:26
ZZZZZ	23A0419-10	XDT_m1230502-088	Solid	05/02/23 20:26
ZZZZZ	23A0419-10	XDT_m1230502-088	Solid	05/02/23 20:26

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0043

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0419-11	XDT_m1230502-089	Solid	05/02/23 20:31
ZZZZZ	23A0419-11	XDT_m1230502-089	Solid	05/02/23 20:31
ZZZZZ	23A0419-11	XDT_m1230502-089	Solid	05/02/23 20:31
ZZZZZ	23A0419-11	XDT_m1230502-089	Solid	05/02/23 20:31
ZZZZZ	23A0419-12	XDT_m1230502-090	Solid	05/02/23 20:35
ZZZZZ	23A0419-12	XDT_m1230502-090	Solid	05/02/23 20:35
ZZZZZ	23A0419-12	XDT_m1230502-090	Solid	05/02/23 20:35
ZZZZZ	23A0419-12	XDT_m1230502-090	Solid	05/02/23 20:35
LDW23-SS1026	23C0752-01	XDT_m1230502-091	Solid	05/02/23 20:40
LDW23-SS1026	23C0752-01	XDT_m1230502-091	Solid	05/02/23 20:40
LDW23-SS1026	23C0752-01	XDT_m1230502-091	Solid	05/02/23 20:40
LDW23-SS1026	23C0752-01	XDT_m1230502-091	Solid	05/02/23 20:40
LDW23-SS1125	23C0752-02	XDT_m1230502-092	Solid	05/02/23 20:44
LDW23-SS1125	23C0752-02	XDT_m1230502-092	Solid	05/02/23 20:44
LDW23-SS1125	23C0752-02	XDT_m1230502-092	Solid	05/02/23 20:44
LDW23-SS1125	23C0752-02	XDT_m1230502-092	Solid	05/02/23 20:44
LDW23-SS1132	23C0752-03	XDT_m1230502-093	Solid	05/02/23 20:49
LDW23-SS1132	23C0752-03	XDT_m1230502-093	Solid	05/02/23 20:49
LDW23-SS1132	23C0752-03	XDT_m1230502-093	Solid	05/02/23 20:49
LDW23-SS1132	23C0752-03	XDT_m1230502-093	Solid	05/02/23 20:49
LDW23-SS1810	23C0752-04	XDT_m1230502-094	Solid	05/02/23 20:53
LDW23-SS1810	23C0752-04	XDT_m1230502-094	Solid	05/02/23 20:53
LDW23-SS1810	23C0752-04	XDT_m1230502-094	Solid	05/02/23 20:53
LDW23-SS1810	23C0752-04	XDT_m1230502-094	Solid	05/02/23 20:53
LDW23-SS1809	23C0752-06	XDT_m1230502-095	Solid	05/02/23 20:58
LDW23-SS1809	23C0752-06	XDT_m1230502-095	Solid	05/02/23 20:58
LDW23-SS1809	23C0752-06	XDT_m1230502-095	Solid	05/02/23 20:58
LDW23-SS1809	23C0752-06	XDT_m1230502-095	Solid	05/02/23 20:58
Calibration Check	SLE0043-CCV8	XDT_m1230502-096	NA	05/02/23 21:03

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0043
SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SLE0043-CCB8	XDT_m1230502-097	NA	05/02/23 21:10
ZZZZZ	23A0455-02	XDT_m1230502-098	Solid	05/02/23 21:15
ZZZZZ	23A0455-03	XDT_m1230502-099	Solid	05/02/23 21:19
ZZZZZ	23A0455-04	XDT_m1230502-100	Solid	05/02/23 21:24
ZZZZZ	23A0455-05	XDT_m1230502-101	Solid	05/02/23 21:28
ZZZZZ	23A0455-06	XDT_m1230502-102	Solid	05/02/23 21:32
ZZZZZ	23A0455-07	XDT_m1230502-103	Solid	05/02/23 21:37
ZZZZZ	23A0455-08	XDT_m1230502-104	Solid	05/02/23 21:41
ZZZZZ	23A0455-10	XDT_m1230502-106	Solid	05/02/23 21:50
ZZZZZ	23A0455-11	XDT_m1230502-107	Solid	05/02/23 21:55
Calibration Check	SLE0043-CCV9	XDT_m1230502-108	NA	05/02/23 22:00
Calibration Blank	SLE0043-CCB9	XDT_m1230502-109	NA	05/02/23 22:07
Calibration Check	SLE0043-CCVA	XDT_m1230502-111	NA	05/02/23 22:16
Calibration Blank	SLE0043-CCBA	XDT_m1230502-112	NA	05/02/23 22:23
ZZZZZ	23A0455-12	XDT_m1230502-113	Solid	05/02/23 22:28
ZZZZZ	23A0455-12	XDT_m1230502-113	Solid	05/02/23 22:28
ZZZZZ	23A0455-12	XDT_m1230502-113	Solid	05/02/23 22:28
ZZZZZ	23A0455-12	XDT_m1230502-113	Solid	05/02/23 22:28
ZZZZZ	23A0455-13	XDT_m1230502-114	Solid	05/02/23 22:32
ZZZZZ	23A0455-13	XDT_m1230502-114	Solid	05/02/23 22:32
ZZZZZ	23A0455-13	XDT_m1230502-114	Solid	05/02/23 22:32
ZZZZZ	23A0455-13	XDT_m1230502-114	Solid	05/02/23 22:32
ZZZZZ	23A0455-14	XDT_m1230502-115	Solid	05/02/23 22:37
ZZZZZ	23A0455-14	XDT_m1230502-115	Solid	05/02/23 22:37
ZZZZZ	23A0455-14	XDT_m1230502-115	Solid	05/02/23 22:37
ZZZZZ	23A0455-14	XDT_m1230502-115	Solid	05/02/23 22:37
ZZZZZ	23A0455-15	XDT_m1230502-116	Solid	05/02/23 22:41
ZZZZZ	23A0455-16	XDT_m1230502-117	Solid	05/02/23 22:45
ZZZZZ	23A0455-16	XDT_m1230502-117	Solid	05/02/23 22:45

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0043
SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0455-16	XDT_m1230502-117	Solid	05/02/23 22:45
ZZZZZ	23A0455-16	XDT_m1230502-117	Solid	05/02/23 22:45
ZZZZZ	23A0455-17	XDT_m1230502-118	Solid	05/02/23 22:50
ZZZZZ	23A0455-17	XDT_m1230502-118	Solid	05/02/23 22:50
ZZZZZ	23A0455-17	XDT_m1230502-118	Solid	05/02/23 22:50
ZZZZZ	23A0455-17	XDT_m1230502-118	Solid	05/02/23 22:50
ZZZZZ	23A0455-18	XDT_m1230502-119	Solid	05/02/23 22:54
ZZZZZ	23A0455-18	XDT_m1230502-119	Solid	05/02/23 22:54
ZZZZZ	23A0455-18	XDT_m1230502-119	Solid	05/02/23 22:54
ZZZZZ	23A0455-18	XDT_m1230502-119	Solid	05/02/23 22:54
Instrument Blank	SLE0043-IBL5	XDT_m1230502-122	NA	05/02/23 23:07
Calibration Check	SLE0043-CCVB	XDT_m1230502-123	NA	05/02/23 23:12
Calibration Blank	SLE0043-CCBB	XDT_m1230502-124	NA	05/02/23 23:19
Instrument Blank	SLE0043-IBL6	XDT_m1230502-129	NA	05/02/23 23:43
Instrument Blank	SLE0043-IBL7	XDT_m1230502-134	NA	05/03/23 00:07
Calibration Check	SLE0043-CCVC	XDT_m1230502-135	NA	05/03/23 00:11
Calibration Blank	SLE0043-CCBC	XDT_m1230502-136	NA	05/03/23 00:18
ZZZZZ	23D0442-02	XDT_m1230502-142	Water	05/03/23 00:46
ZZZZZ	BLE0054-DUP1	XDT_m1230502-143	Water	05/03/23 00:50
ZZZZZ	BLE0054-MS1	XDT_m1230502-144	Water	05/03/23 00:55
ZZZZZ	BLE0054-MSD1	XDT_m1230502-145	Water	05/03/23 01:01
Instrument Blank	SLE0043-IBL8	XDT_m1230502-146	NA	05/03/23 01:06
Calibration Check	SLE0043-CCVD	XDT_m1230502-147	NA	05/03/23 01:10
Calibration Blank	SLE0043-CCBD	XDT_m1230502-148	NA	05/03/23 01:17
Instrument Blank	SLE0043-IBL9	XDT_m1230502-158	NA	05/03/23 01:56
Calibration Check	SLE0043-CCVE	XDT_m1230502-159	NA	05/03/23 02:00
Calibration Blank	SLE0043-CCBE	XDT_m1230502-160	NA	05/03/23 02:06
Calibration Check	SLE0043-CCVF	XDT_m1230502-162	NA	05/03/23 02:14
Calibration Blank	SLE0043-CCBF	XDT_m1230502-163	NA	05/03/23 02:20

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0043

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Instrument Blank	SLE0043-IBLA	XDT_m1230502-173	NA	05/03/23 02:56
Calibration Check	SLE0043-CCVG	XDT_m1230502-174	NA	05/03/23 03:00
Calibration Blank	SLE0043-CCBG	XDT_m1230502-175	NA	05/03/23 03:06
Instrument Blank	SLE0043-IBLB	XDT_m1230502-185	NA	05/03/23 03:43
Calibration Check	SLE0043-CCVH	XDT_m1230502-186	NA	05/03/23 03:47
Calibration Blank	SLE0043-CCBH	XDT_m1230502-187	NA	05/03/23 03:53
Instrument Blank	SLE0043-IBLC	XDT_m1230502-197	NA	05/03/23 04:29
Calibration Check	SLE0043-CCVI	XDT_m1230502-198	NA	05/03/23 04:33
Calibration Blank	SLE0043-CCBI	XDT_m1230502-199	NA	05/03/23 04:39
Instrument Blank	SLE0043-IBLD	XDT_m1230502-209	NA	05/03/23 05:16
Calibration Check	SLE0043-CCVJ	XDT_m1230502-210	NA	05/03/23 05:21
Calibration Blank	SLE0043-CCBJ	XDT_m1230502-211	NA	05/03/23 05:27
Instrument Blank	SLE0043-IBLE	XDT_m1230502-221	NA	05/03/23 06:04
Calibration Check	SLE0043-CCVK	XDT_m1230502-222	NA	05/03/23 06:08
Calibration Blank	SLE0043-CCBK	XDT_m1230502-223	NA	05/03/23 06:12

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00066
Sequence: SLD0370
Standard ID: L003578

Lab Sample ID	Analyte	True	Found	%R	Units
SLD0370-IFA1	Arsenic-75a	0	0.0300		ug/L
	Cadmium-111	0	0.1020		ug/L
	Cadmium-114	0	0.0850		ug/L
	Copper-63	0	0.0400		ug/L
	Copper-65	0	0.0440		ug/L
	Zinc-66	0	0.2690		ug/L
	Zinc-67	0	0.3220		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

Analytical Resources, LLC
Analytical Chemists and Consultants

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00066
Sequence: SLD0370
Standard ID: L003578

Lab Sample ID	Analyte	True	Found	%R	Units
SLD0370-IFB1	Arsenic-75a	20.000	20.267	101	ug/L
	Cadmium-111	20.000	20.808	104	ug/L
	Cadmium-114	20.000	20.635	103	ug/L
	Copper-63	20.000	20.366	102	ug/L
	Copper-65	20.000	20.923	105	ug/L
	Zinc-66	20.000	19.373	96.9	ug/L
	Zinc-67	20.000	18.486	92.4	ug/L

* Indicates %R outside of QC limits
NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00073
Sequence: SLD0387
Standard ID: L003578

Lab Sample ID	Analyte	True	Found	%R	Units
SLD0387-IFA1	Arsenic-75a	0	0.0280		ug/L
	Cadmium-111	0	0.0680		ug/L
	Cadmium-114	0	0.0510		ug/L
	Copper-63	0	0.0370		ug/L
	Copper-65	0	0.0330		ug/L
	Zinc-66	0	0.2810		ug/L
	Zinc-67	0	0.1890		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00073
Sequence: SLD0387
Standard ID: L003578

Lab Sample ID	Analyte	True	Found	%R	Units
SLD0387-IFB1	Arsenic-75a	20.000	20.087	100	ug/L
	Cadmium-111	20.000	18.740	93.7	ug/L
	Cadmium-114	20.000	18.710	93.6	ug/L
	Copper-63	20.000	20.076	100	ug/L
	Copper-65	20.000	19.978	99.9	ug/L
	Zinc-66	20.000	19.317	96.6	ug/L
	Zinc-67	20.000	17.787	88.9	ug/L

* Indicates %R outside of QC limits
NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00078
Sequence: SLD0418
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLD0418-IFA1	Arsenic-75a	0	0.0350		ug/L
	Cadmium-111	0	0.0800		ug/L
	Cadmium-114	0	0.0730		ug/L
	Copper-63	0	0.0440		ug/L
	Copper-65	0	0.0450		ug/L
	Zinc-66	0	0.2740		ug/L
	Zinc-67	0	0.1430		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00078
Sequence: SLD0418
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLD0418-IFB1	Arsenic-75a	20.000	19.815	99.1	ug/L
	Cadmium-111	20.000	19.752	98.8	ug/L
	Cadmium-114	20.000	19.659	98.3	ug/L
	Copper-63	20.000	20.947	105	ug/L
	Copper-65	20.000	20.866	104	ug/L
	Zinc-66	20.000	20.181	101	ug/L
	Zinc-67	20.000	18.362	91.8	ug/L

* Indicates %R outside of QC limits
NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00013
Sequence: SLE0043
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0043-IFA1	Arsenic-75a	0	0.0370		ug/L
	Cadmium-111	0	0.0960		ug/L
	Cadmium-114	0	0.0580		ug/L
	Copper-63	0	0.0500		ug/L
	Copper-65	0	0.0530		ug/L
	Zinc-66	0	0.4970		ug/L
	Zinc-67	0	0.5520		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00013
Sequence: SLE0043
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0043-IFB1	Arsenic-75a	20.000	19.382	96.9	ug/L
	Cadmium-111	20.000	19.617	98.1	ug/L
	Cadmium-114	20.000	19.821	99.1	ug/L
	Copper-63	20.000	20.099	100	ug/L
	Copper-65	20.000	20.164	101	ug/L
	Zinc-66	20.000	18.958	94.8	ug/L
	Zinc-67	20.000	18.252	91.3	ug/L

* Indicates %R outside of QC limits
NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

DETECTION LEVEL STANDARD
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00066
Sequence: SLD0370
Lab Sample ID: SLD0370-CRL1

Analyte	True	Found	%R	Units	QC Limts
Arsenic-75a	0.20000	0.189	94.5	ug/L	50 - 150
Cadmium-111	0.10000	0.0920	92.0	ug/L	50 - 150
Cadmium-114	0.10000	0.0960	96.0	ug/L	50 - 150
Copper-63	0.50000	0.536	107	ug/L	50 - 150
Copper-65	0.50000	0.544	109	ug/L	50 - 150
Zinc-66	6.0000	6.15	103	ug/L	50 - 150
Zinc-67	6.0000	6.01	100	ug/L	50 - 150

* Values outside of QC limits

DETECTION LEVEL STANDARD
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00073
Sequence: SLD0387
Lab Sample ID: SLD0387-CRL1

Analyte	True	Found	%R	Units	QC Limts
Arsenic-75a	0.20000	0.213	107	ug/L	50 - 150
Cadmium-111	0.10000	0.0870	87.0	ug/L	50 - 150
Cadmium-114	0.10000	0.0840	84.0	ug/L	50 - 150
Copper-63	0.50000	0.518	104	ug/L	50 - 150
Copper-65	0.50000	0.513	103	ug/L	50 - 150
Zinc-66	6.0000	6.08	101	ug/L	50 - 150
Zinc-67	6.0000	5.90	98.3	ug/L	50 - 150

* Values outside of QC limits

DETECTION LEVEL STANDARD
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GD00078
Sequence: SLD0418
Lab Sample ID: SLD0418-CRL1

Analyte	True	Found	%R	Units	QC Limts
Arsenic-75a	0.20000	0.200	100	ug/L	50 - 150
Cadmium-111	0.10000	0.0950	95.0	ug/L	50 - 150
Cadmium-114	0.10000	0.0960	96.0	ug/L	50 - 150
Copper-63	0.50000	0.577	115	ug/L	50 - 150
Copper-65	0.50000	0.569	114	ug/L	50 - 150
Zinc-66	6.0000	6.88	115	ug/L	50 - 150
Zinc-67	6.0000	6.01	100	ug/L	50 - 150

* Values outside of QC limits

DETECTION LEVEL STANDARD
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00013
Sequence: SLE0043
Lab Sample ID: SLE0043-CRL1

Analyte	True	Found	%R	Units	QC Limts
Arsenic-75a	0.20000	0.215	108	ug/L	50 - 150
Cadmium-111	0.10000	0.116	116	ug/L	50 - 150
Cadmium-114	0.10000	0.106	106	ug/L	50 - 150
Copper-63	0.50000	0.556	111	ug/L	50 - 150
Copper-65	0.50000	0.557	111	ug/L	50 - 150
Zinc-66	6.0000	6.27	104	ug/L	50 - 150
Zinc-67	6.0000	6.01	100	ug/L	50 - 150

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GD00066
Laboratory ID: SLD0370-HCV1
Sequence: SLD0370
Standard ID: L003671

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	200.00	204	1.8	10.00
Cadmium-111	200.00	204	1.8	10.00
Cadmium-114	200.00	203	1.7	10.00
Copper-63	200.00	203	1.6	10.00
Copper-65	200.00	207	3.5	10.00
Zinc-66	200.00	199	-0.4	10.00
Zinc-67	200.00	199	-0.3	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GD00066
Laboratory ID: SLD0370-HCV2
Sequence: SLD0370
Standard ID: L003672

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	300.00	301	0.3	10.00
Cadmium-111	300.00	302	0.8	10.00
Cadmium-114	300.00	300	0.06	10.00
Copper-63	300.00	295	-1.6	10.00
Copper-65	300.00	301	0.5	10.00
Zinc-66	300.00	285	-4.8	10.00
Zinc-67	300.00	291	-3.0	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GD00073
Laboratory ID: SLD0387-HCV1
Sequence: SLD0387
Standard ID: L003671

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	200.00	205	2.6	10.00
Cadmium-111	200.00	196	-1.8	10.00
Cadmium-114	200.00	195	-2.5	10.00
Copper-63	200.00	192	-4.0	10.00
Copper-65	200.00	194	-2.9	10.00
Zinc-66	200.00	193	-3.4	10.00
Zinc-67	200.00	196	-1.9	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GD00073
Laboratory ID: SLD0387-HCV2
Sequence: SLD0387
Standard ID: L003672

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	300.00	307	2.5	10.00
Cadmium-111	300.00	285	-5.1	10.00
Cadmium-114	300.00	282	-5.9	10.00
Copper-63	300.00	284	-5.3	10.00
Copper-65	300.00	287	-4.3	10.00
Zinc-66	300.00	281	-6.5	10.00
Zinc-67	300.00	283	-5.7	10.00

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GD00078
Laboratory ID: SLD0418-HCV1
Sequence: SLD0418
Standard ID: L003671

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	200.00	203	1.4	10.00
Cadmium-111	200.00	209	4.4	10.00
Cadmium-114	200.00	205	2.6	10.00
Copper-63	200.00	201	0.5	10.00
Copper-65	200.00	204	2.0	10.00
Zinc-66	200.00	198	-1.2	10.00
Zinc-67	200.00	198	-1.2	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GD00078
Laboratory ID: SLD0418-HCV2
Sequence: SLD0418
Standard ID: L003672

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	300.00	305	1.7	10.00
Cadmium-111	300.00	296	-1.2	10.00
Cadmium-114	300.00	294	-2.1	10.00
Copper-63	300.00	297	-0.9	10.00
Copper-65	300.00	296	-1.2	10.00
Zinc-66	300.00	289	-3.6	10.00
Zinc-67	300.00	286	-4.5	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00013
Laboratory ID: SLE0043-HCV1
Sequence: SLE0043
Standard ID: L004780

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	200.00	202	1.2	10.00
Cadmium-111	200.00	201	0.3	10.00
Cadmium-114	200.00	200	0.1	10.00
Copper-63	200.00	200	0.04	10.00
Copper-65	200.00	200	-0.2	10.00
Zinc-66	200.00	196	-2.2	10.00
Zinc-67	200.00	195	-2.4	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00013
Laboratory ID: SLE0043-HCV2
Sequence: SLE0043
Standard ID: L004781

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	300.00	304	1.2	10.00
Cadmium-111	300.00	293	-2.3	10.00
Cadmium-114	300.00	292	-2.5	10.00
Copper-63	300.00	295	-1.6	10.00
Copper-65	300.00	296	-1.2	10.00
Zinc-66	300.00	286	-4.8	10.00
Zinc-67	300.00	289	-3.8	10.00

* Values outside of QC limits

HOLDING TIME SUMMARY

Analysis: EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1026 23C0752-01	03/30/23 10:37	03/30/23 16:25	04/17/23 16:44	18	180	05/02/23 20:40	33	180	
LDW23-SS1125 23C0752-02	03/30/23 11:10	03/30/23 16:25	04/17/23 16:44	18	180	05/02/23 20:44	33	180	
LDW23-SS1132 23C0752-03	03/30/23 11:30	03/30/23 16:25	04/17/23 16:44	18	180	05/02/23 20:49	33	180	
LDW23-SS1810 23C0752-04	03/30/23 10:36	03/30/23 16:25	04/17/23 16:44	18	180	05/02/23 20:53	33	180	
LDW23-SS1809 23C0752-06	03/30/23 14:30	03/30/23 16:25	04/17/23 16:44	18	180	05/02/23 20:58	33	180	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: ICPMS1

Analyte	MDL	RL	Units
Arsenic-75a	0.04	0.20	mg/kg
Cadmium-111	0.03	0.10	mg/kg
Cadmium-114	0.04	0.10	mg/kg
Copper-63	0.17	0.50	mg/kg
Copper-65	0.35	0.50	mg/kg
Zinc-66	2.9	6.0	mg/kg
Zinc-67	0.9	6.0	mg/kg

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300 Technology Drive
Christiansburg, VA 24073 · USA
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CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCU10
Lot Number:	P2-CU682108
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Copper
Starting Material:	Cu Metal
Starting Material Lot#:	2095
Starting Material Purity:	99.9996%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10013 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9977 ± 50 µg/mL**
ICP Assay NIST SRM 3114 Lot Number: 121207

Assay Method #2 **10024 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10007 ± 46 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.007542	M	Eu	<	0.000942	O	Na		0.001434	M	Se	<	0.016971	M	Zn	<	0.005657
O	Al	<	0.000609	O	Fe		0.008700	M	Nb	<	0.000942	O	Si		0.003052	M	Zr	<	0.000942
M	As	<	0.010371	M	Ga	<	0.000942	M	Nd	<	0.000942	M	Sm	<	0.000942				
M	Au	<	0.001885	M	Gd	<	0.000942	M	Ni		0.003781	M	Sn	<	0.005657				
O	B		0.003663	M	Ge	<	0.005657	M	Os	<	0.000942	M	Sr	<	0.000942				
M	Ba		0.004253	M	Hf	<	0.000942	O	P	<	0.031668	M	Ta	<	0.000942				
M	Be	<	0.000942	O	Hg	<	0.007064	M	Pb		0.005789	M	Tb	<	0.000942				
M	Bi	<	0.000942	M	Ho	<	0.000942	M	Pd	<	0.000942	M	Te	<	0.004714				
O	Ca		0.002304	M	In	<	0.000942	M	Pr	<	0.000942	M	Th	<	0.000942				
M	Cd	<	0.000942	M	Ir	<	0.000942	M	Pt	<	0.000942	O	Ti	<	0.002801				
M	Ce	<	0.000942	O	K		0.000763	M	Rb	<	0.000942	M	Tl	<	0.000942				
M	Co		0.001890	M	La	<	0.000942	M	Re	<	0.000942	M	Tm	<	0.000942				
M	Cr	<	0.005657	O	Li	<	0.000243	i	Rh	<		M	U	<	0.000942				
M	Cs	<	0.000942	M	Lu	<	0.000942	M	Ru	<	0.039588	M	V	<	0.003771				
s	Cu	<		O	Mg		0.000320	O	S		0.007174	M	W	<	0.005657				
M	Dy	<	0.000942	O	Mn		0.000793	M	Sb	<	0.001885	M	Y	<	0.000942				
M	Er	<	0.000942	M	Mo	<	0.005657	M	Sc	<	0.000942	M	Yb	<	0.000942				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 63.55 +2 6 $Cu(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4, HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Cu Containing Samples (Preparation and Solution) -Metal (soluble in HNO_3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 63 amu	10 ppt	n/a	40Ar23Na 47Ti16O, 14N12C37Cl, 16O12C35Cl, 23Na40Ca
ICP-OES 219.958 nm	0.01/.002 µg/mL	1	Th, Ta, Nb, U, Hf
ICP-OES 224.700 nm	0.01/.001 µg/mL	1	Pb, Ir, Ni, W
ICP-OES 324.754 nm	0.06/.001 µg/mL		Nb, U, Th, Mo, Hf

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 24, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 24, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGPB10
Lot Number:	S2-PB713228
Matrix:	0.5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Lead
Starting Material:	Lead Nitrate
Starting Material Lot#:	2343
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10042 ± 31 µg/mL

Density: 1.015 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10024 ± 41 µg/mL**
ICP Assay NIST SRM 3128 Lot Number: 101026

Assay Method #2 **10054 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000310	M	Eu	<	0.000310	M	Na		0.001470	M	Se	<	0.009100	O	Zn	0.006155
O	Al		0.017098	O	Fe		0.002496	M	Nb	<	0.000310	O	Si		0.003761	O	Zr	< 0.001700
M	As	<	0.003100	M	Ga	<	0.000310	M	Nd	<	0.000310	M	Sm	<	0.000310			
M	Au	<	0.000910	M	Gd	<	0.000310	O	Ni		0.001709	M	Sn	<	0.001300			
O	B	<	0.005600	M	Ge	<	0.002200	M	Os	<	0.000310	O	Sr		0.000444			
O	Ba		0.007865	M	Hf	<	0.000310	O	P	<	0.038000	M	Ta	<	0.000310			
O	Be	<	0.000320	M	Hg	<	0.002200	s	Pb	<		M	Tb	<	0.000610			
M	Bi	<	0.028000	M	Ho	<	0.000310	M	Pd	<	0.000610	M	Te	<	0.000310			
O	Ca		0.019834	M	In	<	0.000310	M	Pr	<	0.000310	M	Th	<	0.000310			
O	Cd	<	0.000630	M	Ir	<	0.000310	M	Pt	<	0.000910	O	Ti		0.005129			
M	Ce		0.004787	O	K		0.008207	M	Rb	<	0.006700	M	Tl	<	0.016000			
M	Co	<	0.000610	M	La	<	0.001900	M	Re	<	0.000310	M	Tm	<	0.000310			
O	Cr	<	0.001500	O	Li	<	0.000110	O	Rh	<	0.007700	M	U	<	0.000310			
M	Cs	<	0.006100	M	Lu	<	0.000310	M	Ru	<	0.001300	M	V	<	0.001600			
M	Cu	<	0.001600	O	Mg		0.003317	O	S	<	0.052000	M	W	<	0.000910			
M	Dy	<	0.000310	O	Mn	<	0.001600	O	Sb	<	0.015000	M	Y	<	0.000310			
M	Er	<	0.000310	M	Mo	<	0.000610	O	Sc	<	0.000630	M	Yb	<	0.000310			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 207.20 +2 6 $Pb(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, HF and HNO_3. Avoid H_2SO_4. Stable with most metals and inorganic anions forming insoluble carbonate, borate, sulfate, sulfite, sulfide, phosphate, oxalate, chromate, tannate, iodate, and cyanide in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO_3 / LDPE container.

Pb Containing Samples (Preparation and Solution) -Metal (Best dissolved in 1:1 H_2O / HNO_3); Oxides (The many different Pb oxides are soluble in HNO_3 with the exception of PbO_2 which is soluble in HCl or HF); Ores and Alloys (Best attacked using 1:1 H_2O / HNO_3); Organic Matrices (Dry ash and dissolve in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 208 amu	5 ppt	n/a	192Pt16O, 192Os16O
ICP-OES 168.215 nm	0.03 / 0.003 µg/mL	1	Co
ICP-OES 217.000 nm	0.09 / 0.03 µg/mL	1	W, Ir, Hf, Sb, Th
ICP-OES 220.353 nm	0.04 / 0.006 µg/mL	1	Bi, Nb

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

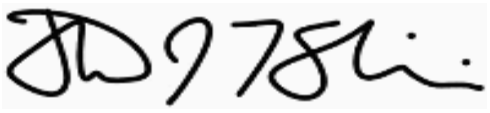
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGZN10
Lot Number:	S2-ZN711249
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Zinc
Starting Material:	Zinc Metal
Starting Material Lot#:	2349
Starting Material Purity:	99.9988%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9992 ± 30 µg/mL

Density: 1.029 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9981 ± 56 µg/mL**
ICP Assay NIST SRM 3168a Lot Number: 120629

Assay Method #2 **9987 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10002 ± 32 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002000	M	Eu	<	0.000500	O	Na		0.008713	M	Se	<	0.048000	s	Zn	<	
O	Al	<	0.011000	O	Fe		0.015467	M	Nb	<	0.000500	O	Si		0.007842	M	Zr	<	0.000500
O	As	<	0.012000	M	Ga	<	0.004900	M	Nd	<	0.000500	M	Sm	<	0.000500				
M	Au	<	0.006500	M	Gd	<	0.000500	O	Ni		0.003049	M	Sn		0.002614				
O	B	<	0.019000	M	Ge	<	0.009100	M	Os	<	0.000500	M	Sr	<	0.000500				
M	Ba	<	0.000500	M	Hf	<	0.000500	O	P	<	0.059000	M	Ta	<	0.000500				
O	Be	<	0.000230	O	Hg	<	0.003800	M	Pb		0.016774	M	Tb	<	0.000500				
M	Bi	<	0.002400	M	Ho	<	0.000500	M	Pd	<	0.001000	M	Te	<	0.017000				
O	Ca		0.052283	M	In	<	0.003500	M	Pr	<	0.000500	M	Th	<	0.000500				
O	Cd		0.000588	M	Ir	<	0.001000	M	Pt	<	0.000500	M	Ti	<	0.002000				
M	Ce	<	0.000500	O	K		0.017209	M	Rb	<	0.002500	M	Tl	<	0.000500				
M	Co		0.000653	M	La	<	0.000500	M	Re	<	0.000500	M	Tm	<	0.000500				
O	Cr		0.001089	O	Li	<	0.000230	M	Rh	<	0.000500	M	U	<	0.000500				
M	Cs	<	0.000500	M	Lu	<	0.000500	M	Ru	<	0.005000	M	V	<	0.000500				
O	Cu		0.001938	O	Mg		0.000871	O	S	<	0.048000	M	W	<	0.001000				
M	Dy	<	0.000500	O	Mn		0.000172	M	Sb	<	0.004300	M	Y	<	0.000500				
M	Er	<	0.000500	M	Mo	<	0.001500	O	Sc	<	0.000900	M	Yb	<	0.000500				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 65.39 +2 4 Zn(OH)(aq)1+
Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media forming insoluble carbonate and hydroxide. Stable with most metals and inorganic anions in acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
Zn Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3); Organic based (dry ash at 4500C and dissolve ash in HCl) (sulfuric/peroxide acid digestion)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 66 amu	7 ppt	N/A	50Ti16O,50Cr16O, 50V16O, 34S16O2, 32S16O18O, 32S17O2, 33S16O17O, 32S34S, 33S2
ICP-OES 202.548 nm	0.004/0.0002 µg/mL	1	Nb, Cu, Co, Hf
ICP-OES 206.200 nm	0.006/0.0006 µg/mL	1	Sb, Ta, Bi, Os
ICP-OES 213.856 nm	0.002/0.0004 µg/mL	1	Ni, Cu, V

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 22, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

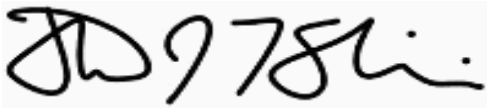
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSE10
Lot Number:	S2-SE711004
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Selenium
Starting Material:	Se Metal
Starting Material Lot#:	1962
Starting Material Purity:	99.9991%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9955 ± 61 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9955 ± 50 µg/mL**
ICP Assay NIST SRM 3149 Lot Number: 100901

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

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u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002242	M	Eu	<	0.000373	O	Na		0.013654	s	Se	<		O	Zn		0.002374
M	Al		0.004450	M	Fe		0.008478	O	Nb	<	0.002975	O	Si		0.006249	M	Zr	<	0.001868
O	As	<	0.022040	M	Ga	<	0.000373	M	Nd	<	0.000373	M	Sm	<	0.000373				
M	Au	<	0.000373	M	Gd	<	0.000373	O	Ni		0.001843	M	Sn		0.000847				
O	B	<	0.007714	M	Ge	<	0.002616	M	Os	<	0.000373	M	Sr	<	0.001121				
M	Ba	<	0.001495	M	Hf	<	0.000373	O	P	<	0.022040	M	Ta	<	0.000373				
M	Be	<	0.001495	M	Hg	<	0.002240	M	Pb		0.006358	M	Tb	<	0.006353				
M	Bi	<	0.000373	M	Ho	<	0.000373	M	Pd	<	0.000373	M	Te	<	0.012707				
O	Ca		0.006530	M	In	<	0.000373	M	Pr	<	0.001495	M	Th	<	0.002990				
M	Cd		0.001165	M	Ir	<	0.000373	M	Pt	<	0.000373	M	Ti	<	0.003363				
M	Ce	<	0.000373	O	K		0.001999	M	Rb	<	0.001868	M	Tl		0.008584				
M	Co	<	0.000373	M	La	<	0.001121	M	Re	<	0.000373	M	Tm	<	0.000373				
M	Cr		0.002861	O	Li		0.000062	M	Rh	<	0.000373	M	U	<	0.000373				
M	Cs	<	0.001121	M	Lu	<	0.000373	M	Ru	<	0.001493	M	V	<	0.000747				
M	Cu	<	0.000747	O	Mg		0.001156	O	S		0.024591	M	W	<	0.002242				
M	Dy	<	0.000373	M	Mn	<	0.000373	M	Sb	<	0.002242	M	Y	<	0.000373				
M	Er	<	0.000373	O	Mo	<	0.003195	M	Sc	<	0.001121	M	Yb	<	0.000373				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 78.96 +4 6 H_2SeO_3

Chemical Compatibility -Soluble in HCl, HNO_3,H_3PO_4, H_2SO_4 and HF aqueous matrices and water. It is stable with most inorganic anions but many cationic metals form the insoluble selenites under pH neutral conditions. When fluorinated and/or under acidic conditions precipitation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Se Containing Samples (Preparation and Solution) -Metal (soluble in HNO_3); Oxides (readily soluble in water); Minerals and alloys (acid digestion with HNO_3or HNO_3 / HF); Organic Matrices (acid digestion with hot concentrated H_2SO_4 accompanied by the careful dropwise addition of H_2O_2 until clear).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 82 amu	200 ppt	N/A	12C35Cl2
ICP-OES 196.026 nm	0.08/0.006 µg/mL	1	Fe
ICP-OES 203.985 nm	0.2/0.05 µg/mL	1	Sb, Ir, Cr, Ta
ICP-OES 206.279 nm	0.3/0.16 µg/mL	1	Cr, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 17, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMO10
Lot Number:	S2-MO706255
Matrix:	H2O tr. NH4OH
Value / Analyte(s):	10 000 µg/mL ea: Molybdenum
Starting Material:	Ammonium Molybdate
Starting Material Lot#:	2361
Starting Material Purity:	99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10026 ± 47 µg/mL

Density: 1.011 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10032 ± 68 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

Assay Method #2 **10020 ± 65 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000590	M	Eu	<	0.000300	M	Na		0.008739	M	Se	<	0.008000	M	Zn		0.005942
M	Al		0.005592	M	Fe	<	0.006500	M	Nb	<	0.029000	i	Si	<		M	Zr	<	0.001800
M	As	<	0.002100	M	Ga	<	0.000300	i	Nd	<		M	Sm	<	0.000300				
M	Au	<	0.000300	M	Gd	<	0.000300	M	Ni	<	0.008000	M	Sn	<	0.008900				
M	B	<	0.003300	M	Ge	<	0.000300	M	Os	<	0.000590	M	Sr		0.001747				
M	Ba		0.016778	M	Hf	<	0.001800	i	P	<		M	Ta	<	0.004200				
M	Be	<	0.000890	M	Hg	<	0.003300	M	Pb	<	0.000300	M	Tb	<	0.000300				
M	Bi	<	0.000890	M	Ho	<	0.000300	M	Pd	<	0.001800	M	Te	<	0.021000				
O	Ca		0.062920	M	In	<	0.032000	M	Pr	<	0.013000	M	Th	<	0.000300				
O	Cd	<	0.026000	M	Ir	<	0.000300	M	Pt	<	0.000300	O	Ti	<	0.032000				
M	Ce	<	0.008300	M	K		1.293372	M	Rb		0.045442	M	Tl		0.012584				
M	Co		0.005942	M	La	<	0.000300	M	Re	<	0.000300	M	Tm	<	0.000300				
M	Cr		0.005243	O	Li		0.000594	M	Rh	<	0.000300	M	U	<	0.005300				
M	Cs		0.005243	M	Lu	<	0.000300	M	Ru	<	0.079000	M	V	<	0.000890				
M	Cu		0.022371	M	Mg		0.005592	i	S	<		M	W		0.873900				
M	Dy	<	0.000300	M	Mn	<	0.005900	M	Sb		0.015031	M	Y	<	0.000300				
M	Er	<	0.000300	s	Mo	<		M	Sc	<	0.001200	M	Yb	<	0.000300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 95.94 +6 6,7,8,9 [MoO4]-2(chemical form as received)

Chemical Compatibility -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 95 amu	3 ppt	n/a	40Ar39K16O,79Br16O,190Os2+,190Pt2+
ICP-OES 202.030 nm	0.008 / 0.0002 µg/mL	1	Os, Hf
ICP-OES 203.844 nm	0.012 / 0.002 µg/mL	1	
ICP-OES 204.598 nm	0.012 / 0.001 µg/mL	1	Ir, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 04, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **July 04, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTL10
Lot Number:	T2-TL714687
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Thallium
Starting Material:	TlNO3
Starting Material Lot#:	2118
Starting Material Purity:	99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10030 ± 42 µg/mL

Density: 1.036 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10040 ± 43 µg/mL**
ICP Assay NIST SRM 3158 Lot Number: 151215

Assay Method #2 **10010 ± 65 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL(

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000200	M	Eu	<	0.000200	O	Na		0.002489	M	Se	<	0.011019	O	Zn		0.002298
O	Al	<	0.004184	O	Fe	<	0.002824	M	Nb	<	0.000200	O	Si		0.003760	M	Zr	<	0.000200
M	As	<	0.002003	M	Ga	<	0.000200	M	Nd	<	0.000200	M	Sm	<	0.000200				
O	Au	<	0.002824	M	Gd	<	0.000200	M	Ni		0.001724	M	Sn	<	0.000601				
O	B	<	0.004184	M	Ge	<	0.000801	M	Os	<	0.000198	O	Sr	<	0.000313				
M	Ba	<	0.000400	M	Hf	<	0.000200	O	P	<	0.010460	M	Ta	<	0.000200				
O	Be	<	0.000104	M	Hg	<	0.000794	M	Pb		0.000811	M	Tb	<	0.000200				
M	Bi	<	0.005209	M	Ho	<	0.000200	M	Pd	<	0.000400	M	Te	<	0.005008				
O	Ca		0.002436	M	In	<	0.000200	M	Pr	<	0.000200	M	Th	<	0.000200				
M	Cd		0.001318	M	Ir	<	0.000198	M	Pt	<	0.000801	O	Ti	<	0.001255				
M	Ce	<	0.000200	O	K		0.006175	M	Rb	<	0.000200	s	Tl	<					
M	Co	<	0.000601	M	La	<	0.000200	M	Re	<	0.000200	M	Tm	<	0.000200				
M	Cr	<	0.000801	O	Li	<	0.000177	M	Rh	<	0.000200	M	U	<	0.000200				
M	Cs	<	0.003606	M	Lu	<	0.000200	M	Ru	<	0.000397	M	V	<	0.002203				
M	Cu	<	0.001001	O	Mg		0.000529	O	S	<	0.015690	M	W	<	0.000601				
M	Dy	<	0.000200	M	Mn	<	0.000801	M	Sb	<	0.000400	M	Y	<	0.000200				
M	Er	<	0.000200	M	Mo	<	0.001202	O	Sc	<	0.000711	M	Yb	<	0.000200				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 204.38 +1 6 Tl(H2O)61+
Chemical Compatibility - Soluble in HCl, HNO3, and H2SO4. Stable with most metals and inorganic anions. The sulfite, thiocyanate and oxalate are moderately soluble; the phosphate and arsenite are slightly soluble and the sulfide is insoluble.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
Tl Containing Samples)Preparation and Solution) -Metal (Best dissolved in HNO3 which forms chiefly the Tl1+ ion.); Oxide (The thallous oxide is readily soluble in water. The thallic oxide requires high levels of acid); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in HCl).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 205 amu	2 ppt	N/A	189Os16O
ICP-OES 190.864 nm	0.04 / 0.004 µg/mL	1	V, Ti
ICP-OES 276.787 nm	0.1 / 0.01 µg/mL	1	Ta, V, Fe, Cr
ICP-OES 351.924 nm	0.2 / 0.02 µg/mL	1	Th, Ce, Zr

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 08, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **February 08, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

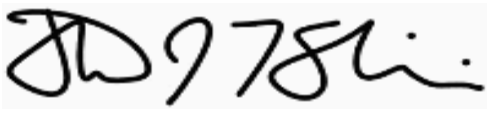
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCD10
Lot Number:	S2-CD710508
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Cadmium
Starting Material:	Cd Metal
Starting Material Lot#:	1953
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10008 ± 30 µg/mL

Density: 1.029 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10010 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #2 **10011 ± 30 µg/mL**
ICP Assay NIST SRM 3108 Lot Number: 130116

Assay Method #3 **10003 ± 30 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag	<	0.003200	O	Eu	<	0.002500	O	Na		0.005499	M	Se	<	0.005700	O	Zn	<	0.001100
O	Al		0.008903	O	Fe		0.000602	M	Nb	<	0.000400	O	Si		0.016758	O	Zr	<	0.002600
M	As	<	0.003600	M	Ga	<	0.001200	M	Nd	<	0.000800	M	Sm	<	0.000400				
M	Au	<	0.000810	M	Gd	<	0.000400	M	Ni	<	0.003600	M	Sn	<	0.003200				
O	B		0.004189	O	Ge	<	0.012000	M	Os	<	0.000810	O	Sr	<	0.000330				
M	Ba	<	0.002400	M	Hf	<	0.000400	O	P	<	0.022000	M	Ta	<	0.000800				
M	Be	<	0.000400	M	Hg	<	0.001700	M	Pb	<	0.002400	M	Tb	<	0.000400				
M	Bi	<	0.000400	M	Ho	<	0.000400	M	Pd	<	0.001200	M	Te	<	0.008000				
O	Ca		0.011259	O	In	<	0.013000	M	Pr	<	0.000400	M	Th	<	0.000400				
s	Cd	<		M	Ir	<	0.000410	M	Pt	<	0.000400	O	Ti		0.000602				
M	Ce	<	0.000400	O	K		0.005237	M	Rb	<	0.004400	M	Tl		0.000523				
M	Co	<	0.000400	M	La	<	0.000400	M	Re	<	0.000400	M	Tm	<	0.000400				
O	Cr	<	0.005100	O	Li	<	0.000054	M	Rh	<	0.000400	M	U	<	0.000400				
M	Cs	<	0.002400	M	Lu	<	0.000400	M	Ru	<	0.002500	M	V	<	0.002000				
O	Cu	<	0.004800	O	Mg		0.000288	O	S	<	0.022000	M	W	<	0.000400				
M	Dy	<	0.000400	O	Mn	<	0.000860	O	Sb	<	0.018000	M	Y	<	0.000400				
M	Er	<	0.000400	M	Mo	<	0.001600	O	Sc	<	0.000430	M	Yb	<	0.000400				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 112.41 +2 4 Cd2(OH) (aq)3+ and Cd(OH)(aq)

Chemical Compatibility -Stable in HCl, HNO3, H2SO4 , and HF. Avoid basic media forming insoluble carbonate and hydroxide.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO3 / LDPE container.

Cd Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (soluble in HCl or HNO3); Ores (dissolve in HCl /HNO3 then take to fumes with H2SO4. The silica and lead sulfate are filtered off after the addition of water); Organic based (dry ash at 450°C and dissolve ash in HCl), (sulfuric / peroxide acid digestion).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 111 amu	11 ppt	n/a	95Mo16O
ICP-OES 214.438 nm	0.003 / 0.0003 µg/mL	1	Pt, Ir
ICP-OES 226.502 nm	0.003 / 0.0003 µg/mL	1	Ir
ICP-OES 228.802 nm	0.003 / 0.0003 µg/mL	1	Co, Ir, As, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 01, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 01, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMN10
Lot Number:	S2-MN704240
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Manganese
Starting Material:	Mn Metal
Starting Material Lot#:	2275
Starting Material Purity:	99.9909%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10011 ± 30 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9989 ± 69 µg/mL**
ICP Assay NIST SRM 3132 Lot Number: 050429

Assay Method #2 **10011 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10024 ± 47 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001500	M	Eu	<	0.000730	O	Na		0.176097	M	Se	<	0.006600	M	Zn		0.009925
O	Al		0.004322	M	Fe	<	0.650000	M	Nb	<	0.000730	O	Si		0.097654	M	Zr	<	0.000730
M	As	<	0.008000	M	Ga		0.004322	M	Nd	<	0.001500	M	Sm	<	0.000730				
M	Au	<	0.000730	M	Gd	<	0.000730	M	Ni		0.024013	M	Sn	<	0.002200				
M	B		0.068838	M	Ge	<	0.004400	M	Os	<	0.000730	O	Sr		0.000928				
M	Ba	<	0.001500	M	Hf	<	0.000730	i	P	<		M	Ta	<	0.000730				
M	Be	<	0.000730	M	Hg	<	0.002200	M	Pb		0.007364	M	Tb	<	0.000730				
M	Bi	<	0.003000	M	Ho	<	0.000730	M	Pd	<	0.000730	M	Te	<	0.019000				
O	Ca		0.062434	M	In	<	0.003000	M	Pr	<	0.000730	M	Th	<	0.000730				
M	Cd	<	0.001500	M	Ir	<	0.000730	M	Pt	<	0.000730	O	Ti	<	0.006500				
M	Ce	<	0.007300	O	K		0.006403	M	Rb	<	0.006600	M	Tl	<	0.000730				
O	Co		0.014728	M	La	<	0.003000	M	Re	<	0.000730	M	Tm	<	0.000730				
O	Cr		0.272151	O	Li		0.000416	M	Rh	<	0.003000	M	U	<	0.001500				
M	Cs	<	0.000730	M	Lu	<	0.000730	M	Ru	<	0.004400	M	V	<	0.000730				
O	Cu		0.007684	O	Mg		0.320177	i	S	<		M	W	<	0.004400				
M	Dy	<	0.001500	s	Mn	<		M	Sb	<	0.021000	O	Y		0.001360				
M	Er	<	0.001500	M	Mo		0.010245	O	Sc	<	0.004100	M	Yb	<	0.000730				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 54.94 +2 6 $Mn(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4 ,HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO_3/LDPE container.

Mn Containing Samples (Preparation and Solution) -Metal (Soluble in dilute acids); Oxides (Soluble in dilute acids); Ores (Dissolve with HCl. If silica is present add HF and then fume off silica by adding H_2SO_4 and heat to SO_3 fumes - dense white fumes).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 55 amu	10 ppt	n/a	40Ar14N1H,39K16O,37Cl18O,40Ar15N,38Ar17O,36Ar18O1H ,38Ar16O1H,37Cl17O1H,23Na32S
ICP-OES 257.610 nm	0.0014 / 0.00002 µg/mL	1	Ce, W, Re
ICP-OES 259.373 nm	0.0016 / 0.00002 µg/mL	1	U, Ta, Mo, Fe, Nb
ICP-OES 260.569 nm	0.0021 / 0.00002 µg/mL	1	Co

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 17, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSB10
Lot Number:	R2-SB688559
Matrix:	3% (v/v) HNO3 3% (w/v) tartaric acid
Value / Analyte(s):	10 000 µg/mL ea: Antimony
Starting Material:	Antimony Metal
Starting Material Lot#:	1857
Starting Material Purity:	99.9894%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10003 ± 47 µg/mL

Density: 1.061 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10003 ± 41 µg/mL**
ICP Assay NIST SRM 3102a Lot Number: 140911

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000200	M	Eu	<	0.000300	O	Na		0.140000	M	Se	<	0.007300	O	Zn		0.005000
M	Al		0.003200	O	Fe		0.060000	M	Nb	<	0.000100	O	Si		0.150000	O	Zr	<	0.006300
M	As	<	0.004400	M	Ga	<	0.000400	M	Nd	<	0.000100	M	Sm	<	0.000100				
M	Au	<	0.000210	M	Gd	<	0.000100	O	Ni		0.004800	M	Sn	<	0.001800				
M	B	<	0.011000	M	Ge	<	0.000600	M	Os	<	0.000110	O	Sr		0.000750				
O	Ba	<	0.004900	M	Hf	<	0.000100	O	P		0.540000	M	Ta		0.003300				
M	Be	<	0.000400	M	Hg	<	0.000110	M	Pb	<	0.000400	M	Tb	<	0.000100				
M	Bi	<	0.000200	M	Ho	<	0.000100	M	Pd	<	0.000210	M	Te	<	0.000600				
O	Ca		0.110000	M	In	<	0.000100	M	Pr	<	0.001600	M	Th	<	0.000100				
M	Cd	<	0.000200	M	Ir	<	0.000110	M	Pt	<	0.000600	M	Ti	<	0.002800				
M	Ce		0.006500	O	K		0.020000	M	Rb	<	0.001000	M	Tl	<	0.000100				
M	Co	<	0.000200	O	La	<	0.016000	M	Re	<	0.000100	M	Tm	<	0.000100				
M	Cr		0.006900	O	Li	<	0.000430	M	Rh	<	0.000300	M	U	<	0.000100				
M	Cs	<	0.000200	M	Lu	<	0.000100	M	Ru	<	0.000310	M	V	<	0.000800				
M	Cu	<	0.000600	O	Mg		0.021000	n	S	<		M	W	<	0.000200				
M	Dy	<	0.000100	O	Mn		0.001900	s	Sb	<		M	Y	<	0.000100				
M	Er	<	0.000100	M	Mo	<	0.000500	O	Sc	<	0.002300	M	Yb	<	0.000100				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 121.75 +3 6 Sb(O)C4H4O6-1

Chemical Compatibility -Stable in conc. HCl, dilute or conc. HF. Stable in dilute HNO3 as the fluoride or tartrate complex. Avoid basic media. Stable with most metals and inorganic anions in acidic media as the tartrate provided the acidity is not too high or the acid is oxidizing causing loss of the stabilizing tartrate ion. The fluoride complex of antimony is stable in strong acid but you should only mix with other metals that are fluorinated.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-2% HNO3 / LDPE container.

Sb Containing Samples (Preparation and Solution) -Metal and alloys (Soluble in H2O / HF / HNO3 mixture); Oxides (Soluble in HCl and tartaric acid or H2O / HF / HNO3 mixtures); Ores (fusion with Na2CO3 in Pt0 followed by dissolving the fuseate in a H2O / HF / HNO3 mixture); Organic based (sulfuric acid / hydrogen peroxide digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 121 amu	5 ppt	N/A	105Pd16O, 89Y16O2
ICP-OES 206.833 nm	0.03/0.003 µg/mL	1	Ta, Cr, Ge, Hf
ICP-OES 217.581 nm	0.05/0.005 µg/mL	1	Nb, W, Re, Fe
ICP-OES 231.147 nm	0.06/0.006 µg/mL	1	Ni, Co, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 30, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 30, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAS10
Lot Number:	T2-AS718260
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Arsenic
Starting Material:	As Metal
Starting Material Lot#:	2208
Starting Material Purity:	99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10060 ± 40 µg/mL

Density: 1.037 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10062 ± 46 µg/mL**
ICP Assay NIST SRM 3103a Lot Number: 100818

Assay Method #2 **10055 ± 76 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	< 0.003200	M	Eu	< 0.000530	O	Na	0.032544	M	Se	< 0.006300	O	Zn	0.001952			
M	Al	0.007593	O	Fe	0.001475	O	Nb	< 0.012000	O	Si	0.238658	O	Zr	< 0.004100			
s	As	<	M	Ga	< 0.000530	M	Nd	< 0.000530	M	Sm	< 0.000530						
M	Au	< 0.003100	M	Gd	< 0.000530	M	Ni	< 0.002100	M	Sn	< 0.000530						
M	B	0.026035	M	Ge	< 0.001600	M	Os	< 0.000520	M	Sr	< 0.000530						
M	Ba	< 0.000530	M	Hf	< 0.000530	O	P	< 0.043000	M	Ta	< 0.000530						
O	Be	< 0.000360	M	Hg	< 0.001600	M	Pb	< 0.002100	M	Tb	< 0.000530						
M	Bi	< 0.000530	M	Ho	< 0.000530	M	Pd	< 0.001100	M	Te	< 0.004700						
O	Ca	0.004339	M	In	< 0.023000	M	Pr	< 0.005300	M	Th	< 0.000530						
M	Cd	< 0.001100	M	Ir	< 0.000520	M	Pt	< 0.000530	O	Ti	< 0.002300						
M	Ce	< 0.000530	O	K	0.002061	M	Rb	< 0.000530	M	Tl	< 0.000530						
M	Co	< 0.000530	M	La	< 0.001100	M	Re	< 0.000530	M	Tm	< 0.000530						
O	Cr	< 0.001800	O	Li	< 0.000120	M	Rh	< 0.000530	M	U	< 0.000530						
M	Cs	< 0.005300	M	Lu	< 0.000530	M	Ru	< 0.000520	M	V	< 0.002700						
M	Cu	< 0.001600	O	Mg	0.000154	O	S	0.028205	M	W	< 0.012000						
M	Dy	< 0.000530	O	Mn	0.000154	M	Sb	< 0.000530	M	Y	< 0.000530						
M	Er	< 0.000530	M	Mo	< 0.000530	O	Sc	< 0.001700	M	Yb	< 0.000530						

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 74.92 ; mix of +3 and +5 ; 6 ; H3AsO4 and HAsO2

Chemical Compatibility - Arsenic has no cationic chemistry. It is soluble in HCl, HNO3,H3PO4, H2SO4 and HF aqueous matrices water and NH4OH . It is stable with most inorganic anions (forms arsenate when boiled with chromate) but many cationic metals form the insoluble arsenates under pH neutral conditions. When fluorinated and / or under acidic conditions arsenate formation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO3 / LDPE container.

As Containing Samples (Preparation and Solution) - Metal (soluble in 1:1 H2O / HNO3); Oxides (the oxide exists in crystalline and amorphous forms where the amorphic form is more water soluble. The oxides typically dissolve in dilute acidic solutions when boiled); Minerals (one gram of powered sample is fused in a Ni crucible with 10 grams of a 1:1 mix of K2CO3 and KNO3 and the melt extracted with hot water); Organic Matrices (0.2 to 0.5 grams of sample are fused with 15 grams of a 1:1 Na2CO3 / Na2O2 mix in a Ni crucible. The fuseate is extracted with water and acidified with HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 75 amu	20 ppt	N/A	40Ar35Cl, 59Co16O, 36Ar38Ar1H,8Ar37Cl,Ar39K, 150Nd2+,150Sm2+
ICP-OES 189.042 nm	0.05/0.005 µg/mL	1	Cr
ICP-OES 193.696 nm	0.1/0.01 µg/mL	1	V, Ge
ICP-OES 228.812 nm	0.1/0.01 µg/mL	1	Cd, Pt, Ir, Co

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGBA10
Lot Number:	R2-BA692576
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Barium
Starting Material:	Barium Nitrate
Starting Material Lot#:	1969
Starting Material Purity:	99.9982%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL

Density: 1.025 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1	**10018 ± 50 µg/mL** ICP Assay NIST SRM 3104a Lot Number: 140909
Assay Method #2	**10023 ± 31 µg/mL** Gravimetric NIST SRM Lot Number: See Sec. 4.2
Assay Method #3	**10023 ± 30 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000410	O	Eu	<	0.005200	O	Na		0.004610	M	Se	<	0.003700	O	Zn		0.000658
M	Al	<	0.003100	O	Fe		0.015707	M	Nb	<	0.000210	O	Si		0.005573	M	Zr	<	0.001300
M	As	<	0.001300	M	Ga	<	0.000210	M	Nd	<	0.000210	O	Sm	<	0.021000				
M	Au	<	0.001300	M	Gd	<	0.000210	M	Ni	<	0.000810	M	Sn	<	0.000410				
O	B	<	0.005200	M	Ge	<	0.002500	M	Os	<	0.000410	O	Sr		0.003850				
s	Ba	<		M	Hf	<	0.000810	O	P	<	0.026000	M	Ta	<	0.000410				
O	Be	<	0.000320	M	Hg	<	0.000210	M	Pb	<	0.002300	M	Tb	<	0.000210				
M	Bi	<	0.000210	M	Ho	<	0.000210	M	Pd	<	0.000210	M	Te	<	0.001900				
O	Ca		0.007093	M	In	<	0.000210	M	Pr	<	0.000210	M	Th	<	0.000210				
M	Cd	<	0.000210	M	Ir	<	0.000210	M	Pt	<	0.000210	M	Ti	<	0.002100				
M	Ce	<	0.001300	O	K		0.035467	M	Rb	<	0.002100	M	Tl	<	0.000210				
M	Co	<	0.000410	O	La	<	0.005200	M	Re	<	0.000210	M	Tm	<	0.000410				
M	Cr	<	0.001700	O	Li	<	0.000630	M	Rh	<	0.000210	M	U	<	0.000210				
M	Cs	<	0.003300	M	Lu	<	0.001700	M	Ru	<	0.000210	O	V	<	0.005200				
M	Cu	<	0.001300	O	Mg		0.000861	O	S		0.268539	M	W	<	0.000410				
M	Dy	<	0.000210	M	Mn	<	0.000410	M	Sb	<	0.001300	O	Y	<	0.005200				
M	Er	<	0.001300	M	Mo	<	0.000410	M	Sc	<	0.000410	M	Yb	<	0.001300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 137.33 +2 6 $Ba(H_2O)_6^{+2}$
Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, iodate, molybdate, sulfite and tungstate in neutral aqueous media.
Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1 -10,000 ppm solutions chemically stable for years in 1-3.5% HNO_3 / LDPE container.
Ba Containing Samples (Preparation and Solution) -Metal(is best dissolved in diluted HNO_3); Ores(Carbonate fusion in Pt0 followed by HCl dissolution. If sulfate is present dissolve the fuseate using HCl / tartaric acid to prevent $BaSO_4$ precipitate); Organic Matrices (dry ash and dissolve in dilute HCl.)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 138 amu	1 ppt	N/A	122Sn16O, 122Te16O
ICP-OES 230.424 nm	0.004/0.0005 µg/mL	1	Mo, Ir, Co
ICP-OES 233.527 nm	0.004/0.0003 µg/mL	1	
ICP-OES 455.403 nm	0.002/0.0001 µg/mL	1	Zr, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 11, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 11, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGBE10
Lot Number:	R2-BE692992
Matrix:	6% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Beryllium
Starting Material:	Beryllium Acetate
Starting Material Lot#:	2281
Starting Material Purity:	99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10032 ± 41 µg/mL

Density: 1.128 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10042 ± 67 µg/mL**
ICP Assay NIST SRM 3105a Lot Number: 090514

Assay Method #2 **10025 ± 51 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001100	M	Eu	<	0.000270	O	Na		0.040962	M	Se	<	0.005000	M	Zn		0.013054
O	Al		0.016205	O	Fe		0.015754	M	Nb	<	0.000270	O	Si		0.024307	O	Zr	<	0.001900
M	As	<	0.002900	M	Ga	<	0.000270	M	Nd	<	0.000270	M	Sm	<	0.000270				
M	Au	<	0.000520	M	Gd	<	0.000270	M	Ni	<	0.003700	M	Sn	<	0.000790				
M	B	<	0.091000	M	Ge	<	0.000270	M	Os	<	0.000260	M	Sr		0.000630				
M	Ba		0.002700	M	Hf	<	0.000270	O	P	<	0.066000	M	Ta	<	0.000270				
s	Be	<		M	Hg	<	0.000520	M	Pb	<	0.000270	M	Tb	<	0.000270				
M	Bi	<	0.000530	M	Ho	<	0.000270	M	Pd	<	0.000520	M	Te	<	0.003700				
O	Ca		0.072022	M	In	<	0.000790	M	Pr	<	0.000270	M	Th	<	0.000270				
M	Cd	<	0.000790	M	Ir	<	0.000260	M	Pt	<	0.000270	O	Ti	<	0.000400				
M	Ce	<	0.000270	O	K		0.045014	M	Rb	<	0.000270	M	Tl	<	0.000790				
O	Co	<	0.003200	M	La	<	0.000270	M	Re	<	0.000270	M	Tm	<	0.000270				
O	Cr	<	0.001800	O	Li	<	0.000660	M	Rh	<	0.001100	M	U	<	0.000270				
M	Cs		0.001440	M	Lu	<	0.000270	M	Ru	<	0.000260	M	V	<	0.000790				
M	Cu	<	0.002100	O	Mg		0.016205	i	S	<		M	W	<	0.000530				
M	Dy	<	0.000270	M	Mn		0.001215	M	Sb	<	0.000270	M	Y	<	0.000270				
M	Er	<	0.000270	M	Mo	<	0.000530	O	Sc	<	0.000930	M	Yb	<	0.000270				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 9.01 +2 4 $Be(H_2O)_4^{+2}$

Chemical Compatibility -Soluble in HCl, HNO_3, H_2SO_4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1 % HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 5-10 % HNO_3 / LDPE container.

Be Containing Samples (Preparation and Solution) - Meta l(is best dissolved in diluted H_2SO_4); BeO (boiling nitric, hydrochloric, or sulfuric acids or KHSO4 fusion); Ores (H_2SO_4/HF digestion or carbonate fusion in Pt0); Organic Matrices (sulfuric/peroxide digestion or nitric/sulfuric/perchloric acid decomposition, or dry ash and dissolution according to the BeO procedure above).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 9 amu	4 ppt	N/A	
ICP-OES 234.861 nm	0.0003/0.00016 µg/mL	1	Fe, Ta, Mo
ICP-OES 313.042 nm	0.0003/0.00009 µg/mL	1	V, Ce, U
ICP-OES 313.107 nm	0.0007/0.0005 µg/mL	1	Ce, Th, Tm

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION, PERIOD OF VALIDITY AND REVISION HISTORY

11.1 Certification Issue Date

May 13, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 13, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

11.4 Revision Status

- Revision 1 - Revised on Thursday, Jan 14, 2021 by utruong. Revision was made for the following reason: Modified Section 7 Chemical Form in Solution.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCO10
Lot Number:	R2-CO695285
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Cobalt
Starting Material:	Co Metal
Starting Material Lot#:	2326
Starting Material Purity:	99.9934%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10012 ± 31 µg/mL

Density: 1.056 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10031 ± 67 µg/mL**
ICP Assay NIST SRM 3113 Lot Number: 190630

Assay Method #2 **10019 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10000 ± 35 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	0.014660	M	Eu	<	0.000590	O	Na	0.007534	M	Se	<	0.019000	M	Zn	0.003461	
M	Al	< 0.024000	M	Fe	0.050905	M	Nb	<	0.000590	O	Si	0.075340	M	Zr	<	0.001200	
i	As	<	M	Ga	<	0.000590	M	Nd	<	0.000590	M	Sm	<	0.000590			
M	Au	< 0.004100	M	Gd	<	0.000590	O	Ni	0.427608	M	Sn	<	0.001200				
M	B	< 0.031000	M	Ge	<	0.003000	M	Os	<	0.000590	O	Sr	<	0.000260			
M	Ba	< 0.000590	M	Hf	<	0.000590	n	P	<		M	Ta	<	0.001200			
O	Be	< 0.001300	M	Hg	<	0.001800	M	Pb	0.003257	M	Tb	<	0.000590				
M	Bi	< 0.003000	M	Ho	<	0.000590	M	Pd	<	0.000590	M	Te	<	0.005300			
O	Ca	0.010588	M	In	<	0.001200	M	Pr	<	0.000590	M	Th	<	0.000590			
M	Cd	< 0.004700	M	Ir	<	0.001200	M	Pt	<	0.002400	M	Ti	<	0.014000			
M	Ce	< 0.000590	O	K	0.008144	M	Rb	<	0.000590	M	Tl	0.002647					
s	Co	<	M	La	<	0.000590	M	Re	<	0.000590	M	Tm	<	0.000590			
M	Cr	< 0.021000	O	Li	<	0.000130	M	Rh	<	0.000590	M	U	<	0.000590			
M	Cs	< 0.002400	M	Lu	<	0.000590	M	Ru	<	0.007100	O	V	<	0.000880			
M	Cu	0.189369	O	Mg	0.001893	n	S	<		M	W	<	0.000590				
M	Dy	< 0.000590	M	Mn	<	0.001800	M	Sb	<	0.003600	M	Y	<	0.000590			
M	Er	< 0.000590	M	Mo	<	0.002400	O	Sc	<	0.001600	M	Yb	<	0.000590			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.93 +2 6 $Co(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4 ,HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Co Containing Samples (Preparation and Solution) - Metal (soluble in HNO_3); Oxides (Soluble in HCl); Ores (dissolve in HCl / HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 59 amu	2 ppt	n/a	42Ca16O1H , 40Ar18O1H , 36Ar23Na, 43Ca16O, 24Mg35Cl
ICP-OES 228.616 nm	0.01/0.001 µg/mL	1	
ICP-OES 237.862 nm	0.01/0.002 µg/mL	1	W, Re, Al, Ta
ICP-OES 238.892 nm	0.01/0.002 µg/mL	1	Fe, W, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 04, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 04, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAG10
Lot Number:	S2-AG712977
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Silver
Starting Material:	Ag Shot
Starting Material Lot#:	2289
Starting Material Purity:	99.9951%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10051 ± 30 µg/mL

Density: 1.056 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1	**10051 ± 52 µg/mL** ICP Assay NIST SRM 3151 Lot Number: 160729
Assay Method #2	**10051 ± 19 µg/mL** Volhard NIST SRM 999c Lot Number: 999c
Assay Method #3	**10049 ± 31 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

s	Ag	<		M	Eu	<	0.000260	O	Na		0.003811	M	Se	<	0.003900	O	Zn		0.048146
M	Al		0.002688	O	Fe		0.006419	M	Nb	<	0.000260	O	Si		0.005215	M	Zr	<	0.000260
M	As	<	0.001100	M	Ga	<	0.000260	M	Nd	<	0.000260	M	Sm	<	0.000260				
M	Au	<	0.000260	M	Gd	<	0.000260	O	Ni		0.001765	M	Sn		0.020060				
O	B	<	0.004300	M	Ge	<	0.002300	M	Os	<	0.001100	O	Sr	<	0.000110				
M	Ba	<	0.000520	M	Hf	<	0.000260	O	P	<	0.017000	M	Ta	<	0.000260				
O	Be	<	0.001100	M	Hg	<	0.000770	M	Pb	<	0.003600	M	Tb	<	0.000260				
M	Bi		0.004814	M	Ho	<	0.000260	M	Pd		0.044134	M	Te	<	0.009000				
O	Ca		0.005215	M	In		0.003691	M	Pr	<	0.000260	M	Th	<	0.000260				
M	Cd	<	0.000260	M	Ir	<	0.000520	M	Pt	<	0.001100	O	Ti	<	0.000440				
M	Ce	<	0.002100	O	K	<	0.008700	M	Rb	<	0.001100	M	Tl	<	0.004100				
O	Co	<	0.000330	M	La	<	0.000260	M	Re	<	0.000260	M	Tm	<	0.000260				
O	Cr	<	0.002500	O	Li	<	0.000110	M	Rh	<	0.000520	M	U	<	0.000260				
M	Cs	<	0.002600	M	Lu	<	0.000260	M	Ru	<	0.000260	M	V	<	0.000260				
O	Cu		0.357085	O	Mg		0.001203	O	S	<	0.017000	M	W	<	0.000260				
M	Dy	<	0.000260	O	Mn	<	0.000220	M	Sb	<	0.014000	M	Y	<	0.000260				
M	Er	<	0.000260	M	Mo	<	0.000260	O	Sc	<	0.000220	M	Yb	<	0.000260				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 107.87 +1 6 $Ag(H_2O)_6^+$

Chemical Compatibility -Stable in HNO_3, and HF. Avoid basic media. Ag forms more insoluble salts than any other metal. It also is subject to photochemical reduction to the metal in HCl media although 10 µg/mL solutions in 10% HCl [$AgCl_{x1-x}$] are commonly used in the analytical laboratory. The most common solubility problems exist with arsenate, arsenite , bromide, chloride, iodide, carbonate , chromate, cyanide, iodate, oxalate, oxide, sulfate, sulfide, tartrate, and thiocyanate in aqueous media. The addition of nitric acid renders many of these salts soluble.

Stability - 2-100 ppb levels stable for 75+ days when mixed with equivalent levels of all other elements including the precious metals (where chloride is present) when in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Ag Containing Samples (Preparation and Solution) -Metal (Soluble in HNO_3); Oxides (Soluble in HNO_3); Ores (Digestion with conc. HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 107 amu	1 ppt	N/A	91Zr16O
ICP-OES 243.779 nm	0.12/0.01 µg/mL	1	Mn, Th, Ni, Rh
ICP-OES 328.068 nm	0.007/0.0007 µg/mL	1	Ce, Rh, V
ICP-OES 338.289 nm	0.013/0.001 µg/mL	1	Ce, Cr, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCR(3)10
Lot Number:	S2-CR709784
Matrix:	10% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Chromium
Starting Material:	Cr Metal
Starting Material Lot#:	2328
Starting Material Purity:	99.9951%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10027 ± 41 µg/mL

Density: 1.072 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10027 ± 40 µg/mL**
ICP Assay NIST SRM 3112a Lot Number: 170630

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001700	M	Eu	<	0.003400	O	Na		0.090372	M	Se	<	0.012000	O	Zn	<	0.006100
M	Al		0.034916	O	Fe		0.246471	M	Nb	<	0.017000	n	Si	<		M	Zr	<	0.007800
M	As	<	0.028000	O	Ga	<	0.013000	M	Nd	<	0.013000	M	Sm	<	0.006900				
M	Au	<	0.001700	M	Gd	<	0.000560	M	Ni		0.016020	M	Sn		0.006983				
O	B	<	0.025000	O	Ge	<	0.014000	M	Os	<	0.000560	M	Sr		0.006367				
M	Ba	<	0.008900	M	Hf	<	0.000560	i	P	<		M	Ta	<	0.000560				
M	Be	<	0.013000	M	Hg	<	0.001700	M	Pb		0.010064	M	Tb	<	0.000560				
M	Bi	<	0.002300	M	Ho	<	0.000560	M	Pd	<	0.021000	M	Te	<	0.010000				
O	Ca		0.075995	M	In	<	0.000560	M	Pr	<	0.001700	M	Th	<	0.000560				
M	Cd	<	0.000560	M	Ir	<	0.000560	M	Pt	<	0.001200	O	Ti		0.013555				
M	Ce	<	0.001200	O	K		0.043132	i	Rb	<		M	Tl	<	0.000560				
M	Co	<	0.002600	M	La	<	0.001200	M	Re	<	0.001200	O	Tm	<	0.013000				
s	Cr	<		O	Li		0.000390	M	Rh	<	0.095000	M	U	<	0.000560				
M	Cs	<	0.007800	M	Lu	<	0.000560	M	Ru	<	0.087000	O	V		0.014993				
O	Cu		0.007599	O	Mg		0.000883	i	S	<		M	W	<	0.049000				
M	Dy	<	0.000560	M	Mn		0.008626	M	Sb	<	0.003400	M	Y	<	0.001700				
M	Er	<	0.019000	M	Mo	<	0.032000	M	Sc		0.003080	M	Yb	<	0.000560				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 52.00 +3 6 $Cr(H_2O)_6^{3+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4, HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Cr3 Containing Samples (Preparation and Solution) -Metal (soluble in HCl); Oxides/Ores (Chrome ore/oxides are very difficult to dissolve. The following procedures [A-D] are commonly used: A. Fusion with $KHSO_4$ and extraction with hot KCl. The residue fused with Na_2CO_3 and $KClO_3$, 3:1. B. Fusion with $NaKSO_4$ and NaF 2:1, C. Fusion with magnesia or lime and sodium or potassium carbonates, 4:1. D. Fusion with Na_2O_2 or NaOH and KNO_3 or NaOH and Na_2O_2. Nickel, iron, copper, or silver crucibles should be used for D. Platinum may be used for A, <, C); Organic Matrices (ash at 4500C followed by one of the fusion methods above or sulfuric/hydrogen peroxide acid digestions may be applicable to non oxide containing samples).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 52 amu	40 ppt	N/A	36S16O, 36Ar16O - The 50Cr, 53Cr, 54Cr lines suffer from many more potential interferences from sulfur, chlorine and argon compounds of oxygen, nitrogen and carbon.
ICP-OES 205.552 nm	0.006/0.0008 µg/mL	1	Os
ICP-OES 276.654 nm	0.01/0.001 µg/mL	1	Cu, Ta, V
ICP-OES 284.325 nm	0.008/0.0007 µg/mL	1	

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 26, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 26, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGNI10
Lot Number:	P2-NI686384
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Nickel
Starting Material:	Ni Metal
Starting Material Lot#:	2277 and 2282
Starting Material Purity:	99.9992%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9979 ± 30 µg/mL

Density: 1.038 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9971 ± 54 µg/mL**
ICP Assay NIST SRM 3136 Lot Number: 120619

Assay Method #2 **9970 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **9993 ± 33 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag		0.002606	M	Eu	<	0.001100	O	Na		0.004965	O	Se	<	0.067000	M	Zn		0.006578
M	Al	<	0.013000	O	Fe		0.018618	M	Nb	<	0.001100	O	Si		0.010923	M	Zr	<	0.001100
O	As	<	0.067000	M	Ga	<	0.001100	M	Nd	<	0.001100	M	Sm	<	0.001100				
M	Au	<	0.002100	M	Gd	<	0.001100	s	Ni	<		M	Sn	<	0.016000				
M	B	<	0.017000	M	Ge	<	0.004200	M	Os		0.002110	O	Sr	<	0.000940				
M	Ba	<	0.001100	M	Hf	<	0.001100	i	P	<		M	Ta	<	0.001100				
O	Be	<	0.000410	M	Hg		0.014895	M	Pb		0.006578	M	Tb	<	0.001100				
M	Bi	<	0.004200	M	Ho	<	0.001100	M	Pd	<	0.001100	M	Te	<	0.015000				
O	Ca		0.003351	M	In	<	0.001100	M	Pr	<	0.001100	M	Th	<	0.001100				
M	Cd		0.001365	M	Ir		0.004716	M	Pt	<	0.001100	M	Ti	<	0.004200				
M	Ce	<	0.001100	O	K		0.004716	M	Rb	<	0.001100	M	Tl	<	0.001100				
O	Co		0.017377	M	La	<	0.001100	M	Re		0.001737	M	Tm	<	0.001100				
O	Cr	<	0.006700	O	Li	<	0.000140	M	Rh	<	0.006300	M	U	<	0.001100				
M	Cs	<	0.007300	M	Lu	<	0.001100	M	Ru	<	0.019000	M	V	<	0.002100				
M	Cu		0.004096	O	Mg		0.000372	i	S	<		M	W	<	0.006300				
M	Dy	<	0.001100	O	Mn	<	0.001900	M	Sb		0.005833	O	Y	<	0.000540				
M	Er	<	0.001100	M	Mo	<	0.008400	M	Sc	<	0.002100	M	Yb	<	0.001100				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.69 +2 6 Ni(H2O)62+
Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
Ni Containing Samples (Preparation and Solution) -Metal (Soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 60 amu	100 ppt	n/a	43Ca16O1H , 44Ca16O, 23Na37Cl
ICP-OES 221.647 nm	0.01 / 0.0009 µg/mL	1	Si
ICP-OES 231.604 nm	0.02 / 0.002 µg/mL	1	Sb, Ta, Co
ICP-OES 232.003 nm	0.02 / 0.006 µg/mL	1	Cr, Re, Os, Nb, Ag, Pt, Fe

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 02, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 02, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGV10
Lot Number:	S2-V711005
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Vanadium
Starting Material:	Vanadium Pentoxide
Starting Material Lot#:	1782
Starting Material Purity:	99.9877%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10014 ± 30 µg/mL

Density: 1.104 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10017 ± 42 µg/mL**
ICP Assay NIST SRM 3165 Lot Number: 160906

Assay Method #2 **10013 ± 30 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000110	M	Eu	<	0.000110	O	Na		0.120000	M	Se	<	0.009400	M	Zn		0.009400
O	Al		0.120000	O	Fe		0.460000	M	Nb	<	0.001300	O	Si		0.270000	M	Zr	<	0.002900
M	As	<	0.000210	M	Ga	<	0.009300	M	Nd	<	0.000610	M	Sm	<	0.000110				
M	Au	<	0.004700	M	Gd	<	0.000110	M	Ni		0.012000	M	Sn		0.003900				
M	B		0.051000	M	Ge	<	0.000410	M	Os	<	0.000110	O	Sr		0.007100				
M	Ba		0.003600	M	Hf	<	0.000110	O	P	<	0.034000	M	Ta	<	0.000110				
O	Be	<	0.000560	M	Hg	<	0.000410	M	Pb		0.001400	M	Tb	<	0.000110				
M	Bi	<	0.000210	M	Ho	<	0.000110	M	Pd	<	0.000410	M	Te	<	0.000110				
O	Ca		0.730000	M	In	<	0.000110	M	Pr	<	0.000110	M	Th	<	0.000210				
M	Cd	<	0.000610	M	Ir	<	0.000110	M	Pt	<	0.000110	M	Ti		0.017000				
M	Ce	<	0.000610	M	K		0.052000	M	Rb	<	0.000310	M	Tl	<	0.000110				
M	Co	<	0.001300	M	La	<	0.000410	M	Re		0.001700	M	Tm	<	0.000110				
O	Cr		0.170000	M	Li	<	0.000810	M	Rh	<	0.000110	M	U	<	0.000410				
M	Cs		0.005600	M	Lu	<	0.000110	M	Ru	<	0.000110	s	V	<					
M	Cu	<	0.001300	M	Mg		0.053000	i	S	<		M	W		0.002000				
M	Dy	<	0.000110	M	Mn		0.007900	M	Sb		0.078000	M	Y	<	0.000110				
M	Er	<	0.000110	M	Mo		0.094000	M	Sc	<	0.000410	M	Yb	<	0.000110				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 50.94 +5 6 H2V10O284-

Chemical Compatibility -Soluble in HCl, HNO3, H2SO4, HF, H3PO4 and strong basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

V Containing Samples (Preparation and Solution) -Metal (Fusion with NaOH or KOH in Ni0 or Na2CO3 / KNO3); Oxides (V2O3 - use HCl, V2O4 - use HCl or HNO3, V2O5 - use concentrated acids); Ores (Na2CO3 / KNO3 in Pt0 caution - nitrates attack Pto followed by water extraction of fuseate); Organic Matrices (Ash at 450 EC followed by dissolving according to V2O5 above) .

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 51 amu	4 ppt	N/A	34S16O1H, 35Cl16O, 38Ar13C, 36Ar15N, 36Ar14N1H, 37Cl14N,36S15N, 33S18O, 34S17O, 102Ru+2,02Pd+2
ICP-OES 290.882 nm	0.008 / 0.0008 µg/mL	1	Hf, Nb
ICP-OES 292.402 nm	0.006 / 0.001 µg/mL	1	Th
ICP-OES 309.311 nm	0.005 / 0.001 µg/mL	1	Mg, U, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

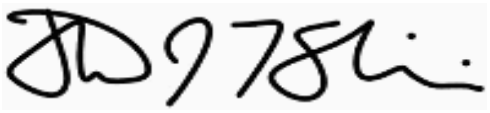
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAL10
Lot Number:	T2-AL716102
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Aluminum
Starting Material:	Aluminum Nitrate Nonahydrate
Starting Material Lot#:	2460
Starting Material Purity:	99.9938%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10049 ± 31 µg/mL

Density: 1.087 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1	**10059 ± 40 µg/mL** ICP Assay NIST SRM 3101a Lot Number: 140903
Assay Method #2	**10044 ± 26 µg/mL** EDTA NIST SRM 928 Lot Number: 928
Assay Method #3	**10049 ± 35 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002100	M	Eu	<	0.002100	O	Na		0.352819	M	Se	<	0.005200	M	Zn	0.006018
s	Al	<		O	Fe		0.074714	M	Nb	<	0.000520	O	Si		0.017848	O	Zr	0.004358
M	As		0.008716	O	Ga		0.112072	M	Nd	<	0.000520	M	Sm	<	0.000520			
M	Au	<	0.008400	M	Gd	<	0.001100	O	Ni	<	0.006000	M	Sn		0.000747			
O	B	<	0.014000	M	Ge	<	0.005200	M	Os	<	0.000650	O	Sr		0.000518			
O	Ba		0.012867	M	Hf	<	0.004100	n	P	<		M	Ta	<	0.000520			
O	Be	<	0.000270	M	Hg	<	0.002000	M	Pb		0.002282	M	Tb	<	0.000520			
M	Bi		0.001930	M	Ho	<	0.000520	M	Pd	<	0.000520	M	Te	<	0.001100			
O	Ca		0.076790	M	In	<	0.002100	M	Pr	<	0.000520	M	Th	<	0.000520			
M	Cd	<	0.000520	M	Ir	<	0.000650	M	Pt	<	0.000520	O	Ti		0.001930			
M	Ce	<	0.001100	O	K		0.043583	M	Rb	<	0.000520	M	Tl	<	0.000520			
O	Co	<	0.005400	M	La	<	0.002100	M	Re	<	0.000520	M	Tm	<	0.000520			
O	Cr		0.006018	O	Li		0.000112	M	Rh	<	0.000520	M	U	<	0.000520			
M	Cs		0.000643	M	Lu	<	0.000520	M	Ru	<	0.002000	M	V		0.001286			
O	Cu	<	0.008300	O	Mg		0.068488	i	S	<		M	W	<	0.009800			
M	Dy	<	0.002100	O	Mn		0.000913	M	Sb	<	0.003100	M	Y	<	0.001100			
M	Er	<	0.000520	M	Mo		0.005396	O	Sc	<	0.000950	M	Yb	<	0.000520			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 26.98 +3 6 Al(H2O)6+3
Chemical Compatibility -Soluble in HCl, HNO3, v F and v 2SO4. Avoid neutral media. Soluble in strongly basic NaOH forming the Al(OH)4(H2O)21- species. Stable with most metals and inorganic anions. The phosphate is insoluble in water and only slightly soluble in acid.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
Al Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO3); a- Al2O3 (Na2CO3 fusion in Pt0);
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 27 amu	30 ppt	N/A	12C15N, 13C14N, 1H12C14N, 11B16O, 54Cr2+, 54Fe2+
ICP-OES 167.078 nm	0.1/0.009 µg/mL	1	Fe
ICP-OES 394.401 nm	0.05/0.006 µg/mL	1	U, Ce
ICP-OES 396.152 nm	0.03/0.006 µg/mL	1	Mo, Zr, Ce

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 22, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 22, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

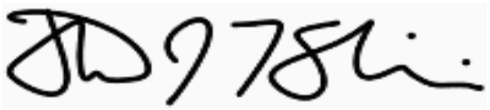
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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Christiansburg, VA 24073 USA
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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGK10
Lot Number:	S2-K711973
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Potassium
Starting Material:	KNO3
Starting Material Lot#:	2313
Starting Material Purity:	99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9992 ± 30 µg/mL

Density: 1.024 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1	**9987 ± 24 µg/mL** Gravimetric NIST SRM Lot Number: See Sec. 4.2
Assay Method #2	**10004 ± 84 µg/mL** ICP Assay NIST SRM 3141a Lot Number: 140813
Assay Method #3	**10007 ± 45 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001400	M	Eu	<	0.000660	O	Na		0.246220	M	Se	<	0.007900	O	Zn	0.018056
O	Al		0.001592	O	Fe		0.005909	M	Nb	<	0.000660	O	Si		0.011490	O	Zr	< 0.001600
M	As	<	0.005300	M	Ga	<	0.000660	M	Nd	<	0.000660	M	Sm	<	0.000660			
M	Au	<	0.002000	M	Gd	<	0.000660	O	Ni	<	0.004900	M	Sn	<	0.000660			
O	B	<	0.005600	M	Ge	<	0.002000	M	Os	<	0.003300	O	Sr		0.000055			
O	Ba	<	0.000860	M	Hf	<	0.000660	O	P	<	0.032000	M	Ta	<	0.000660			
O	Be	<	0.000082	M	Hg	<	0.002000	M	Pb	<	0.002300	M	Tb	<	0.000660			
M	Bi	<	0.006600	M	Ho	<	0.000660	M	Pd	<	0.000660	M	Te	<	0.017000			
O	Ca		0.031187	M	In	<	0.000660	M	Pr	<	0.000660	M	Th	<	0.000660			
O	Cd	<	0.000450	M	Ir	<	0.000660	M	Pt	<	0.002700	M	Ti	<	0.000660			
M	Ce	<	0.000660	s	K	<		M	Rb		0.476026	M	Tl	<	0.000660			
O	Co	<	0.000780	M	La	<	0.000660	M	Re	<	0.000660	M	Tm	<	0.000660			
O	Cr		0.000541	O	Li	<	0.000084	M	Rh	<	0.000660	M	U	<	0.000660			
M	Cs	<	0.000660	M	Lu	<	0.000660	M	Ru	<	0.000660	O	V	<	0.001100			
M	Cu	<	0.002700	O	Mg		0.006237	O	S		0.027905	M	W	<	0.000660			
M	Dy	<	0.000660	O	Mn		0.000476	M	Sb	<	0.000660	M	Y	<	0.000660			
M	Er	<	0.000660	M	Mo	<	0.000660	O	Sc	<	0.000340	O	Yb	<	0.000270			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 39.10 +1 (6) K+(aq)
Chemical Compatibility -Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Avoid use of HClO4 due to insolubility of the perchlorate. Stable with all metals and inorganic anions except ClO4-.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
K Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Sodium carbonate fusion in Pt0 followed by HCl dissolution-blank levels of K in sodium carbonate critical); Organic Matrices (Sulfuric/peroxide digestion)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 39 amu	10 ppt	n/a	38ArH, 23Na16O, 78Se
ICP-OES 404.721 nm	1.1 / 0.05 µg/mL	1	U, Ce
ICP-OES 766.490 nm	0.4 / 0.001 µg/mL	1	2nd order radiation from R.E.s on some optical designs
ICP-OES 771.531 nm	1.0 / 0.03 µg/mL	1	2nd order radiation from R.E.s on some optical designs

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 10, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 10, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

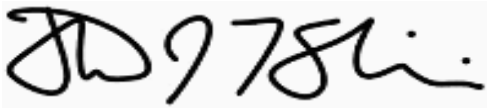
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMG10
Lot Number:	S2-MG704239
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Magnesium
Starting Material:	Magnesium Metal
Starting Material Lot#:	2168
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10053 ± 30 µg/mL

Density: 1.053 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10022 ± 62 µg/mL**
ICP Assay NIST SRM 3131a Lot Number: 140110

Assay Method #2 **10078 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10033 ± 26 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

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4.0 TRACEABILITY TO NIST

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- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.002106	M	Eu	<	0.000910	O	Na		0.071075	O	Se	<	0.048000	O	Zn		0.003299
M	Al		0.003553	M	Fe		0.002538	M	Nb	<	0.000460	O	Si	<	0.032000	O	Zr	<	0.002700
M	As	<	0.001400	M	Ga	<	0.000460	M	Nd	<	0.000910	M	Sm	<	0.000460				
M	Au	<	0.001400	M	Gd	<	0.000460	O	Ni	<	0.001600	M	Sn	<	0.002300				
O	B		0.006853	M	Ge	<	0.001400	M	Os	<	0.000460	O	Sr		0.000279				
O	Ba		0.000964	M	Hf	<	0.000460	O	P		0.015230	M	Ta	<	0.000460				
O	Be	<	0.000120	M	Hg	<	0.000460	M	Pb	<	0.000460	M	Tb	<	0.000460				
M	Bi	<	0.000460	M	Ho	<	0.000460	M	Pd	<	0.003200	M	Te	<	0.007300				
O	Ca		0.053306	M	In	<	0.000460	M	Pr	<	0.000460	M	Th	<	0.000460				
O	Cd	<	0.000360	M	Ir	<	0.000460	M	Pt	<	0.001900	O	Ti	<	0.001700				
M	Ce	<	0.002300	M	K		0.048229	M	Rb		0.002411	M	Tl		0.003046				
M	Co	<	0.000910	M	La	<	0.002800	M	Re	<	0.000460	M	Tm	<	0.000460				
M	Cr	<	0.002300	O	Li		0.027922	M	Rh	<	0.000460	M	U	<	0.000460				
M	Cs		0.001040	M	Lu	<	0.000460	M	Ru	<	0.000460	M	V	<	0.000460				
O	Cu	<	0.003000	s	Mg	<		O	S	<	0.190000	M	W	<	0.000460				
M	Dy	<	0.000460	O	Mn		0.015230	M	Sb		0.020814	O	Y	<	0.000720				
M	Er	<	0.000460	M	Mo	<	0.000910	O	Sc	<	0.000480	M	Yb	<	0.000460				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 24.31 +2 6 Mg(H2O)6+2
Chemical Compatibility -Soluble in HCl, HNO3, and H2SO4 avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicates, carbonates, hydroxides, oxides, and tungstates in neutral and slightly acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO3 / LDPE container.
Mg Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO3); Oxide (Readily soluble in above compatible aqueous acidic solutions); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric / peroxide digestion or nitric / sulfuric / perchloric acid decomposition, or dry ash and dissolution in dilute HCl).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 24 amu	42 ppt	n/a	7Li17O, 48Ti+2 , 48Ca+2
ICP-OES 279.553 nm	0.0002 / 0.00003 µg/mL	1	Th
ICP-OES 280.270 nm	0.0003 / 0.00005 µg/mL	1	U, V
ICP-OES 285.213 nm	0.002 / 0.00003 µg/mL	1	U, Hf, Cr, Zr

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 23, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 23, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCA10
Lot Number:	T2-CA716103
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Calcium
Starting Material:	CaCO3
Starting Material Lot#:	2472
Starting Material Purity:	99.9950%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10005 ± 30 µg/mL

Density: 1.039 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10005 ± 45 µg/mL**
ICP Assay NIST SRM 3109a Lot Number: 130213

Assay Method #2 **10005 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10005 ± 31 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001200	M	Eu	<	0.001200	O	Na		0.006112	M	Se	<	0.024000	M	Zn		0.005362
M	Al		0.065419	O	Fe		0.009115	M	Nb	<	0.001200	O	Si		0.139417	O	Zr	<	0.006700
O	As	<	0.013000	M	Ga	<	0.015000	M	Nd	<	0.020000	M	Sm	<	0.001200				
M	Au	<	0.017000	M	Gd	<	0.004800	O	Ni		0.000793	M	Sn	<	0.003600				
O	B		0.001179	M	Ge	<	0.003600	M	Os	<	0.001200	M	Sr		0.081505				
O	Ba		0.002788	M	Hf	<	0.001200	O	P	<	0.041000	M	Ta	<	0.001200				
O	Be	<	0.000410	M	Hg	<	0.004800	M	Pb		0.001608	M	Tb	<	0.001200				
M	Bi		0.001608	M	Ho	<	0.001200	M	Pd	<	0.001200	M	Te	<	0.003600				
s	Ca	<		M	In	<	0.001200	M	Pr		0.000257	M	Th	<	0.001200				
O	Cd	<	0.001300	M	Ir	<	0.001200	M	Pt	<	0.003600	O	Ti	<	0.001900				
M	Ce		0.001029	O	K		0.009759	M	Rb	<	0.001200	M	Tl	<	0.001200				
O	Co		0.000418	M	La		0.001823	M	Re	<	0.001200	M	Tm	<	0.001200				
O	Cr		0.003324	O	Li	<	0.007300	M	Rh	<	0.001200	M	U		0.002144				
M	Cs		0.007399	M	Lu		0.000128	M	Ru	<	0.001200	M	V		0.001286				
O	Cu	<	0.011000	M	Mg		1.286934	O	S		0.055767	O	W	<	0.024000				
M	Dy	<	0.002400	O	Mn		0.004611	M	Sb	<	0.009600	O	Y		0.000536				
M	Er	<	0.002400	M	Mo		0.003539	O	Sc	<	0.001400	M	Yb	<	0.001200				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 40.08 +2 6 Ca(H2O)6+2
Chemical Compatibility - Soluble in HCl and HNO3. Avoid H2SO4, vF, v3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, and tungstate in neutral aqueous media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO3 / LDPE container.
Ca Containing Samples)Preparation and Solution) -Metal (best dissolved in diluted HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (dry ash and dissolution in dilute HCl. Do not heat when dissolving to avoid precipitation of SiO2). The oxide, hydroxide, carbonate, phosphate, and fluoride of calcium are soluble in % levels of HCl or HNO3. The sulfates (gypsum, anhydrite, etc.), certain silicates, and complex compounds require fusion with Na2CO3 followed by HCl / water dissolution. Note that contamination is a very real problem when analyzing for trace levels.
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 44 amu	1200 ppt	n/a	16O212C, 28Si16O, 88Sr
ICP-OES 393.366 nm	0.0002 / 0.00004 µg/mL	1	U, Ce
ICP-OES 396.847 nm	0.0005 / 0.00006 µg/mL	1	Th
ICP-OES 422.673 nm	0.01 / 0.001 µg/mL	1	Ge

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 14, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 14, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

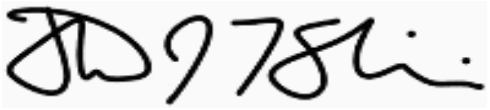
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGNA10
Lot Number:	T2-NA717221
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Sodium
Starting Material:	Na2CO3
Starting Material Lot#:	2358 and 2453
Starting Material Purity:	99.9977%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9977 ± 30 µg/mL

Density: 1.033 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9974 ± 18 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

Assay Method #2 **9977 ± 34 µg/mL**
ICP Assay NIST SRM 3152a Lot Number: 200413

Assay Method #3 **9987 ± 31 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000930	M	Eu	<	0.000930	s	Na	<		M	Se	<	0.003800	O	Zn		0.000138
M	Al		0.004409	O	Fe		0.002393	M	Nb	<	0.000930	O	Si		0.056696	O	Zr	<	0.003200
O	As	<	0.023000	M	Ga	<	0.000930	M	Nd	<	0.000930	M	Sm	<	0.000930				
O	Au	<	0.004100	M	Gd	<	0.000930	O	Ni	<	0.003000	M	Sn	<	0.002800				
O	B		0.001385	M	Ge	<	0.004700	M	Os	<	0.000930	O	Sr		0.000251				
M	Ba		0.004031	M	Hf	<	0.000930	O	P		0.010205	M	Ta	<	0.000930				
O	Be	<	0.000130	M	Hg	<	0.000930	M	Pb	<	0.000930	M	Tb	<	0.000930				
M	Bi	<	0.000930	M	Ho	<	0.000930	M	Pd	<	0.000930	M	Te	<	0.001900				
O	Ca		0.176388	M	In	<	0.000930	M	Pr	<	0.000930	M	Th		0.000352				
O	Cd	<	0.000860	M	Ir	<	0.000930	M	Pt	<	0.000930	O	Ti		0.000592				
M	Ce	<	0.001900	O	K		0.302380	M	Rb	<	0.000930	M	Tl	<	0.000930				
O	Co	<	0.001800	O	La	<	0.002100	M	Re	<	0.000930	M	Tm	<	0.000930				
M	Cr	<	0.002800	O	Li		0.000031	M	Rh	<	0.000930	M	U	<	0.000930				
M	Cs	<	0.000930	M	Lu	<	0.000930	M	Ru	<	0.001900	O	V	<	0.001600				
O	Cu	<	0.003900	O	Mg		0.026458	O	S		0.040317	O	W	<	0.028000				
M	Dy	<	0.000930	O	Mn	<	0.000740	M	Sb	<	0.000930	O	Y	<	0.000860				
M	Er	<	0.000930	O	Mo	<	0.003600	O	Sc	<	0.000610	O	Yb	<	0.000250				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 22.99 +1 (6) Na+(aq) largely ionic in nature

Chemical Compatibility -Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Na Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Lithium carbonate fusion in graphite crucible followed by HCl dissolution - blank levels of Na in lithium carbonate critical); Organic Matrices (Sulfuric / peroxide digestion or nitric/sulfuric/perchloric acid decomposition).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 23 amu	310 ppt	n/a	46Ti+2 , 46Ca+2
ICP-OES 330.237 nm	2.0 / 0.09 µg/mL	1	Pd, Zn
ICP-OES 588.995 nm	0.03 / 0.006 µg/mL	1	2nd order radiation from R.E.s on some optical designs
ICP-OES 589.595 nm	0.07 / 0.00009 µg/mL	1	2nd order radiation from R.E.s on some optical designs

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 20, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 20, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

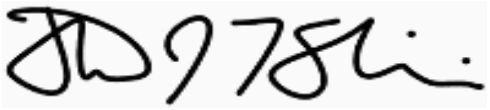
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGU1
Lot Number:	S2-U707914
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Uranium
Starting Material:	Uranyl Nitrate Hexahydrate
Starting Material Lot#:	P2-2322
Starting Material Purity:	99.9997%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 999 ± 5 µg/mL

Density: 1.010 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **998 ± 5 µg/mL**
ICP Assay NIST SRM 3164 Lot Number: 080521

Assay Method #2 **1001 ± 6 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000270	M	Eu	<	0.000270	M	Na	<	0.011000	M	Se	<	0.009300	M	Zn	0.002358
M	Al	<	0.011000	M	Fe		0.003222	M	Nb	<	0.000270	M	Si	<	0.160000	M	Zr	< 0.001100
M	As	<	0.002400	M	Ga	<	0.000270	M	Nd	<	0.000270	M	Sm	<	0.000270			
M	Au	<	0.000270	M	Gd	<	0.000270	M	Ni	<	0.020000	M	Sn	<	0.011000			
M	B	<	0.000270	M	Ge	<	0.000800	M	Os	<	0.001900	M	Sr	<	0.000270			
M	Ba	<	0.003800	M	Hf	<	0.000270	i	P	<		M	Ta	<	0.000270			
M	Be	<	0.000270	M	Hg	<	0.000540	M	Pb	<	0.002200	M	Tb	<	0.000270			
M	Bi	<	0.000270	M	Ho	<	0.000270	M	Pd	<	0.000540	M	Te	<	0.003800			
M	Ca	<	0.140000	M	In	<	0.000270	M	Pr	<	0.000270	M	Th		0.000129			
M	Cd	<	0.000270	M	Ir	<	0.000270	M	Pt	<	0.000270	M	Ti	<	0.002700			
M	Ce	<	0.000540	O	K	<	0.250000	M	Rb	<	0.000800	M	Tl	<	0.000270			
M	Co	<	0.000800	M	La		0.000117	M	Re	<	0.064000	M	Tm	<	0.000270			
M	Cr		0.000943	M	Li	<	0.003000	M	Rh	<	0.000270	s	U	<				
M	Cs		0.000106	M	Lu	<	0.000270	M	Ru	<	0.000540	M	V	<	0.000540			
M	Cu	<	0.001100	M	Mg	<	0.003000	i	S	<		M	W	<	0.000540			
M	Dy	<	0.000270	M	Mn	<	0.006900	M	Sb	<	0.000270	M	Y	<	0.000270			
M	Er	<	0.000270	M	Mo	<	0.006400	M	Sc	<	0.000540	M	Yb	<	0.000270			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 238.03 +6 8 UO22+(uranyl)
Chemical Compatibility - Soluble in HCl and HNO3. Avoid H3PO4. H2SO4 and HF matrices should not be a problem depending upon [U]. Although the UO22+ ion is distinctly basic, any U+4 will precipitate in basic media. UO22+salts are generally soluble in water and UO22+ is stable with most metals and inorganic anions. The uranyl phosphate is insoluble in water. UF4 and UF6 are water soluble.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
U Containing Samples (Preparation and Solution) -Metal (Dissolves rapidly in HCl and HNO3); Oxide (Soluble in HNO3); Ores (Digest for 1-2 hours with 1 gram of ore to 30 mL 1:1 HNO3. Silica insolubles are removed by filtration after bringing the sample to fumes with conc. H2SO4.)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 238 amu	2 ppt	N/A	206Pb16O2
ICP-OES 263.553 nm	0.3 / 0.01 µg/mL	1	Ce, Ir, Th, Rh, W, Zr, Ta, Ti, V, Hf, Fe, Re, Ru
ICP-OES 367.007 nm	0.3 / 0.02 µg/mL	1	Th, Ce
ICP-OES 385.958 nm	0.3 / 0.01 µg/mL	1	Th, Fe

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-ICVMS-2
Lot Number:	T2-MEB719895
Matrix:	3% (v/v) HNO3 tr. HF
Value / Analyte(s):	2.5 µg/mL ea: Molybdenum, Antimony

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**2.499 ± 0.015 µg/mL**	**Molybdenum, Mo**	**2.500 ± 0.017 µg/mL**

Density: 1.014 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	ICP Assay	3134	130418
Mo	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Sb	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

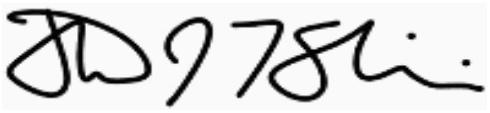
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-ICVMS-3
Lot Number:	T2-MEB719896
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	250 µg/mL ea:

Aluminum, Calcium,
Iron, Potassium,
Magnesium, Sodium,

4 µg/mL ea:
Selenium,

2.5 µg/mL ea:

Thorium,	Thallium,
Uranium,	Vanadium,
Zinc,	Manganese,
Cadmium,	Cobalt,
Chromium,	Copper,
Arsenic,	Barium,
Beryllium,	Nickel,
Lead,	Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	250.0 ± 0.9 µg/mL	Arsenic, As	2.500 ± 0.018 µg/mL
Barium, Ba	2.501 ± 0.013 µg/mL	Beryllium, Be	2.501 ± 0.015 µg/mL
Cadmium, Cd	2.501 ± 0.013 µg/mL	Calcium, Ca	250.0 ± 1.3 µg/mL
Chromium, Cr	2.500 ± 0.015 µg/mL	Cobalt, Co	2.500 ± 0.014 µg/mL
Copper, Cu	2.500 ± 0.014 µg/mL	Iron, Fe	250.0 ± 1.0 µg/mL
Lead, Pb	2.500 ± 0.013 µg/mL	Magnesium, Mg	250.0 ± 1.3 µg/mL
Manganese, Mn	2.500 ± 0.014 µg/mL	Nickel, Ni	2.500 ± 0.014 µg/mL
Potassium, K	250.0 ± 1.2 µg/mL	Selenium, Se	4.002 ± 0.024 µg/mL
Silver, Ag	2.501 ± 0.017 µg/mL	Sodium, Na	250.0 ± 1.2 µg/mL
Thallium, Tl	2.500 ± 0.017 µg/mL	Thorium, Th	2.499 ± 0.013 µg/mL
Uranium, U	2.501 ± 0.015 µg/mL	Vanadium, V	2.500 ± 0.014 µg/mL
Zinc, Zn	2.500 ± 0.014 µg/mL		

Density: 1.042 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Calculated		See Sec. 4.2
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Cu	Calculated		See Sec. 4.2
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Mn	Calculated		See Sec. 4.2
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Th	EDTA	928	928
Th	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
U	ICP Assay	3164	080521
U	Calculated		See Sec. 4.2

V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928
Zn	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

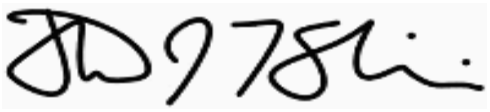
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-6020ICS-0A10
Lot Number:	T2-MEB719898
Matrix:	1.4% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Chloride,
	200 µg/mL ea: Carbon,
	100 µg/mL ea: Calcium, Aluminum, Iron, Potassium, Magnesium, Sodium, Phosphorus, Sulfur,
	2 µg/mL ea: Titanium, Molybdenum

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**100.0 ± 0.4 µg/mL**	**Calcium, Ca**	**100.0 ± 0.5 µg/mL**
Carbon, C	**200.1 ± 0.5 µg/mL**	**Chloride, Cl**	**1 000 ± 5 µg/mL**
Iron, Fe	**100.0 ± 0.5 µg/mL**	**Magnesium, Mg**	**100.0 ± 0.5 µg/mL**
Molybdenum, Mo	**2.001 ± 0.014 µg/mL**	**Phosphorus, P**	**100.0 ± 0.6 µg/mL**
Potassium, K	**100.0 ± 0.5 µg/mL**	**Sodium, Na**	**100.0 ± 0.5 µg/mL**
Sulfur, S	**100.0 ± 0.5 µg/mL**	**Titanium, Ti**	**2.001 ± 0.015 µg/mL**

Density: 1.009 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
C	Acidimetric	84L	84L
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cl	Acidimetric	84L	84L
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mo	ICP Assay	3134	130418
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
S	Acidimetric	84L	84L
S	ICP Assay	traceable to 3154	P2-S680745
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 07, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 07, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

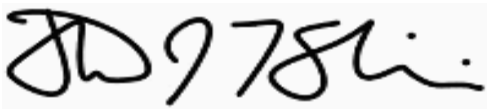
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7471B

Total Metals

LDW23-SS1026

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-01 A	SDG:	23C0752
Sampled:	03/30/23 10:37	Prepared:	04/17/23 12:55	File ID:	SMM 04-18-23-018
% Solids:	52.10	Preparation:	SMM EPA 7471B	Analyzed:	04/18/23 11:52
Batch:	BLD0366	Sequence:	SLD0238	Initial/Final:	0.23 g Wet / 50 mL
Instrument:	HYDRA			Calibration:	GD00044

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.169	1	0.00876	0.0417	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7471B

Total Metals

LDW23-SS1125

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-02 A	SDG:	23C0752
Sampled:	03/30/23 11:10	Prepared:	04/17/23 12:55	File ID:	SMM 04-18-23-019
% Solids:	49.27	Preparation:	SMM EPA 7471B	Analyzed:	04/18/23 11:54
Batch:	BLD0366	Sequence:	SLD0238	Initial/Final:	0.22 g Wet / 50 mL
Instrument:	HYDRA			Calibration:	GD00044

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.325	1	0.00969	0.0461	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7471B

Total Metals

LDW23-SS1132

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-03 A	SDG:	23C0752
Sampled:	03/30/23 11:30	Prepared:	04/17/23 12:55	File ID:	SMM 04-18-23-020
% Solids:	50.77	Preparation:	SMM EPA 7471B	Analyzed:	04/18/23 11:57
Batch:	BLD0366	Sequence:	SLD0238	Initial/Final:	0.289 g Wet / 50 mL
Instrument:	HYDRA			Calibration:	GD00044

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.114	1	0.00716	0.0341	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7471B

Total Metals

LDW23-SS1810

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-04 A	SDG:	23C0752
Sampled:	03/30/23 10:36	Prepared:	04/17/23 12:55	File ID:	SMM 04-18-23-021
% Solids:	52.64	Preparation:	SMM EPA 7471B	Analyzed:	04/18/23 11:59
Batch:	BLD0366	Sequence:	SLD0238	Initial/Final:	0.264 g Wet / 50 mL
Instrument:	HYDRA			Calibration:	GD00044

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.184	1	0.00756	0.0360	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7471B

Total Metals

LDW23-SS1809

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-06 A	SDG:	23C0752
Sampled:	03/30/23 14:30	Prepared:	04/17/23 12:55	File ID:	SMM 04-18-23-024
% Solids:	48.44	Preparation:	SMM EPA 7471B	Analyzed:	04/18/23 12:06
Batch:	BLD0366	Sequence:	SLD0238	Initial/Final:	0.273 g Wet / 50 mL
Instrument:	HYDRA			Calibration:	GD00044

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.169	1	0.00794	0.0378	

PREPARATION BATCH SUMMARY

EPA 7471B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BLD0366 Batch Matrix: Solid
Preparation: SMM EPA 7471B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1026	23C0752-01	SMM 04-18-23-018	04/17/23 12:55	Store frozen; frozen volume used
LDW23-SS1125	23C0752-02	SMM 04-18-23-019	04/17/23 12:55	Store frozen; frozen volume used
LDW23-SS1132	23C0752-03	SMM 04-18-23-020	04/17/23 12:55	Store frozen; frozen volume used
LDW23-SS1810	23C0752-04	SMM 04-18-23-021	04/17/23 12:55	Store frozen; frozen volume used
LDW23-SS1809	23C0752-06	SMM 04-18-23-024	04/17/23 12:55	Store frozen; frozen volume used
Blank	BLD0366-BLK1	SMM 04-18-23-012	04/17/23 12:55	
LCS	BLD0366-BS1	SMM 04-18-23-013	04/17/23 12:55	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Mercury Digestion Log

Prep Code: SWM | Balance ID: BALIO | Matrix: Soil
Analyst: MAR | Block ID: 9 | Date: 4/17/23
Bath Temp: 95°C | Start Time: 1155 | End Time: 1255

ARI Sample ID	Sample Bottle #	pH<2	Initial Weight (g) Volume (mL)	Final Volume (mL)	# $KMnO_4$ Aliquots	CLP	Comments
23C752-01	A		0.230	50	1		
-02			0.220				
-03			0.289				
-04			0.264				
-06			0.273				
23C774-01	B		0.270				
-02			0.234				
-03			0.242				
-04			0.223				
-05			0.238				
-06			0.280				
-07			0.224				
-08			0.288				
-09			0.278				
-10			0.258				
-11			0.238				
-12			0.254				
-13			0.260				
-14			0.211				
BLD356-blk	—		—				23C774-01
-lcs	—		—				
-dup	—		0.270				
-MS	—		0.269				
-MSD	—		0.272				

Chemical/Reagent ID:

HNO_3: LZ678 | H_2SO_4: L922 | HCl: —
5% $K_2S_2O_8$: LZ350 | 5% $KMnO_4$: K11727 | Digest Tube Lot: 221017

Form I

METHOD BLANK DATA SHEET

EPA 7471B

Total Metals

Blank

Laboratory: Analytical Resources, LLC | SDG: 23C0752

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

Batch: BLD0366 | Laboratory ID: BLD0366-BLK1 | Prepared: 04/17/23 12:55

Matrix: Solid | Preparation: SMM EPA 7471B | Analyzed: 04/18/23 11:38

Sequence: SLD0238 | Calibration: GD00044 | Instrument: HYDRA

CAS NO.	Analyte	Concentration (mg/kg wet)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	ND	1	0.00525	0.0250	U

LCS / LCS DUPLICATE RECOVERY

EPA 7471B

Total Metals

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	04/18/23 11:40
Batch:	BLD0366	Laboratory ID:	BLD0366-BS1
Preparation:	SMM EPA 7471B	Sequence Name:	LCS
Initial/Final:	0.2 g / 50 mL		

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Mercury	0.500	0.449		89.7	80 - 120

* Indicates values outside of QC limits

INITIAL CALIBRATION DATA

EPA 7471B

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GD00044	Instrument:	HYDRA
Calibration Date:	04/18/2023 14:55		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Mercury	0	0	0.0001	6220000	0.0005	5798000	0.001	5633000	0.002	5694500	0.005	5670800

INITIAL CALIBRATION DATA

EPA 7471B

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GD00044	Instrument:	HYDRA
Calibration Date:	04/18/2023 14:55		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Mercury	4836050	49.2	1.0000		0.99	

SMM 04-18-23

SLD0238 GD00044

Method: ARI 5 ppb (NO 0.05) Operator: Admin Date of Analysis: 18 Apr 2023 10:42:59

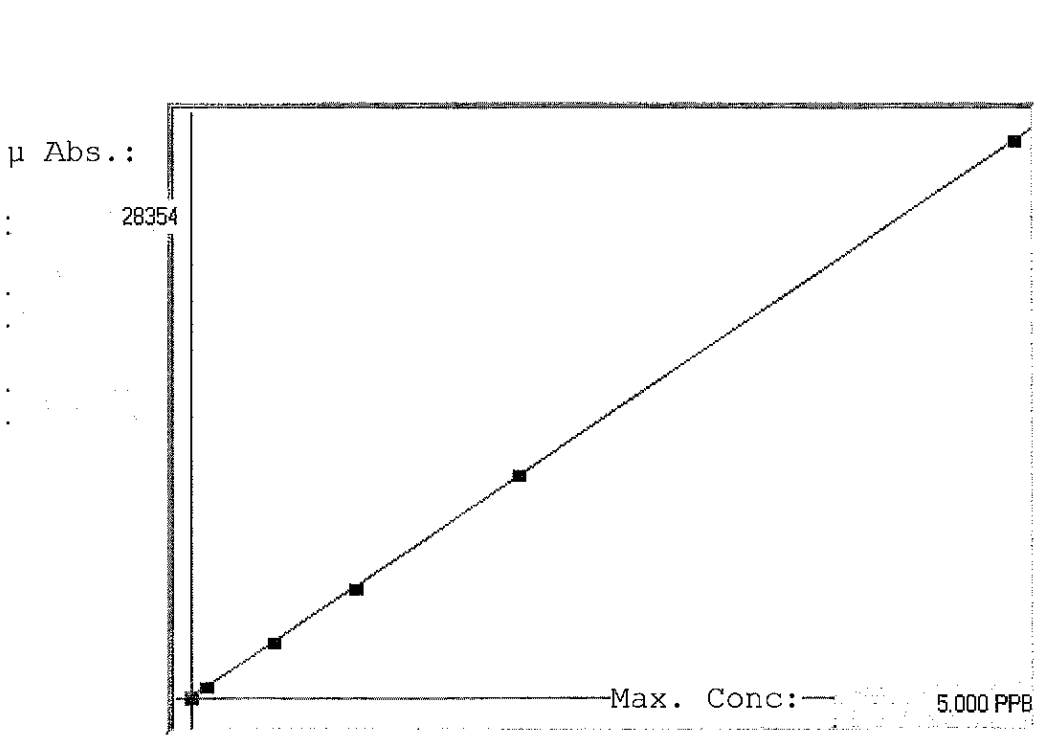
Sample ID	Mean	Units		Date	Method
SEQ-CAL1	41	PPB		18 Apr 2023 10:43:38	ARI 5 ppb (NO 0.05)
SEQ-CAL2	622	PPB		18 Apr 2023 10:45:59	ARI 5 ppb (NO 0.05)
SEQ-CAL3	2899	PPB		18 Apr 2023 10:48:21	ARI 5 ppb (NO 0.05)
SEQ-CAL4	5633	PPB		18 Apr 2023 10:50:42	ARI 5 ppb (NO 0.05)
SEQ-CAL5	11389	PPB		18 Apr 2023 10:53:02	ARI 5 ppb (NO 0.05)
SEQ-CAL6	28354	PPB		18 Apr 2023 10:55:22	ARI 5 ppb (NO 0.05)
SEQ-ICV	101.0% 4.0390	PPB	✓	18 Apr 2023 11:26:55	ARI 5 ppb (NO 0.05)
SEQ-ICB	-0.0069	PPB	✓	18 Apr 2023 11:29:14	ARI 5 ppb (NO 0.05)
SEQ-CRL	97.1% 0.0971	PPB	✓	18 Apr 2023 11:31:36	ARI 5 ppb (NO 0.05)
SEQ-CCV	102.1% 4.0836	PPB	✓	18 Apr 2023 11:33:57	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0074	PPB	✓	18 Apr 2023 11:36:15	ARI 5 ppb (NO 0.05)
BLD0366-BLK1	-0.0025	PPB		18 Apr 2023 11:38:36	ARI 5 ppb (NO 0.05)
BLD0366-BS1	1.7945	PPB	✓	18 Apr 2023 11:40:55	ARI 5 ppb (NO 0.05)
23C0774-01	0.3480	PPB		18 Apr 2023 11:43:14	ARI 5 ppb (NO 0.05)
BLD0366-DUP1	0.4567	PPB		18 Apr 2023 11:45:33	ARI 5 ppb (NO 0.05)
BLD0366-MS1	1.3197	PPB	✓	18 Apr 2023 11:47:52	ARI 5 ppb (NO 0.05)
BLD0366-MSD1	1.4154	PPB	✓	18 Apr 2023 11:50:11	ARI 5 ppb (NO 0.05)
23C0752-01	0.4056	PPB		18 Apr 2023 11:52:30	ARI 5 ppb (NO 0.05)
23C0752-02	0.7056	PPB		18 Apr 2023 11:54:49	ARI 5 ppb (NO 0.05)
23C0752-03	0.3333	PPB		18 Apr 2023 11:57:09	ARI 5 ppb (NO 0.05)
23C0752-04	0.5101	PPB		18 Apr 2023 11:59:29	ARI 5 ppb (NO 0.05)
SEQ-CCV	100.4% 4.0143	PPB	✓	18 Apr 2023 12:01:50	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0103	PPB	✓	18 Apr 2023 12:04:08	ARI 5 ppb (NO 0.05)
23C0752-06	0.4463	PPB		18 Apr 2023 12:06:29	ARI 5 ppb (NO 0.05)
23C0774-02	0.3073	PPB		18 Apr 2023 12:08:50	ARI 5 ppb (NO 0.05)
23C0774-03	0.3795	PPB		18 Apr 2023 12:11:11	ARI 5 ppb (NO 0.05)
23C0774-04	0.4909	PPB		18 Apr 2023 12:13:30	ARI 5 ppb (NO 0.05)
23C0774-05	0.4217	PPB		18 Apr 2023 12:15:49	ARI 5 ppb (NO 0.05)
23C0774-06	0.3910	PPB		18 Apr 2023 12:18:08	ARI 5 ppb (NO 0.05)
23C0774-07	0.3009	PPB		18 Apr 2023 12:20:27	ARI 5 ppb (NO 0.05)
23C0774-08	0.4248	PPB		18 Apr 2023 12:22:46	ARI 5 ppb (NO 0.05)
23C0774-09	0.4787	PPB		18 Apr 2023 12:25:05	ARI 5 ppb (NO 0.05)
23C0774-10	0.3613	PPB		18 Apr 2023 12:27:24	ARI 5 ppb (NO 0.05)
SEQ-CCV	97.4% 3.8947	PPB	✓	18 Apr 2023 12:29:45	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0094	PPB	✓	18 Apr 2023 12:32:03	ARI 5 ppb (NO 0.05)
23C0774-11	0.3332	PPB		18 Apr 2023 12:34:25	ARI 5 ppb (NO 0.05)
23C0774-12	0.4412	PPB		18 Apr 2023 12:36:45	ARI 5 ppb (NO 0.05)
23C0774-13	0.4327	PPB		18 Apr 2023 12:39:06	ARI 5 ppb (NO 0.05)
23C0774-14	0.3774	PPB		18 Apr 2023 12:41:27	ARI 5 ppb (NO 0.05)
BLD0395-BLK1	-0.0015	PPB		18 Apr 2023 12:43:48	ARI 5 ppb (NO 0.05)
BLD0395-BS1	1.7394	PPB	✓	18 Apr 2023 12:46:07	ARI 5 ppb (NO 0.05)
23A0326-01	0.3559	PPB		18 Apr 2023 12:48:26	ARI 5 ppb (NO 0.05)
BLD0395-DUP1	0.3831	PPB		18 Apr 2023 12:50:46	ARI 5 ppb (NO 0.05)
BLD0395-MS1	1.3299	PPB	✓	18 Apr 2023 12:53:05	ARI 5 ppb (NO 0.05)
BLD0395-MSD1	1.7590	PPB	✓	18 Apr 2023 12:55:25	ARI 5 ppb (NO 0.05)
SEQ-CCV	96.7% 3.8693	PPB	✓	18 Apr 2023 12:57:44	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0118	PPB	✓	18 Apr 2023 13:00:03	ARI 5 ppb (NO 0.05)
23A0326-02	0.3851	PPB		18 Apr 2023 13:02:26	ARI 5 ppb (NO 0.05)
23A0326-04	0.2588	PPB		18 Apr 2023 13:04:45	ARI 5 ppb (NO 0.05)
23A0326-05	0.4026	PPB		18 Apr 2023 13:07:05	ARI 5 ppb (NO 0.05)
23A0326-10	0.4821	PPB		18 Apr 2023 13:09:25	ARI 5 ppb (NO 0.05)
23A0326-11	0.2881	PPB		18 Apr 2023 13:11:46	ARI 5 ppb (NO 0.05)
23A0326-12	0.4171	PPB		18 Apr 2023 13:14:07	ARI 5 ppb (NO 0.05)
BLD0395-PS1	1.4477	PPB	✓	18 Apr 2023 13:16:28	ARI 5 ppb (NO 0.05)
BLD0397-BLK1	-0.0054	PPB		18 Apr 2023 13:18:47	ARI 5 ppb (NO 0.05)
BLD0397-BS1	1.7478	PPB	✓	18 Apr 2023 13:21:06	ARI 5 ppb (NO 0.05)
23A0417-01	0.6496	PPB		18 Apr 2023 13:23:26	ARI 5 ppb (NO 0.05)
SEQ-CCV	90.2% 3.6061	PPB	✓	18 Apr 2023 13:25:45	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0143	PPB	✓	18 Apr 2023 13:28:04	ARI 5 ppb (NO 0.05)
BLD0397-DUP1	0.2720	PPB		18 Apr 2023 13:30:26	ARI 5 ppb (NO 0.05)

SMM 04-18-23

Method: ARI 5 ppb (NO 0.05) Operator: Admin Date of Analysis: 18 Apr 2023 10:42:59

Sample ID	Mean	Units		Date	Method
BLD0397-MS1	1.3013	PPB	X	18 Apr 2023 13:32:45	ARI 5 ppb (NO 0.05)
BLD0397-MSD1	1.3720	PPB	X	18 Apr 2023 13:35:05	ARI 5 ppb (NO 0.05)
23A0417-02	0.3749	PPB		18 Apr 2023 13:37:25	ARI 5 ppb (NO 0.05)
23A0417-03	0.3667	PPB		18 Apr 2023 13:39:45	ARI 5 ppb (NO 0.05)
23A0417-04	0.3830	PPB		18 Apr 2023 13:42:05	ARI 5 ppb (NO 0.05)
23A0417-05	0.2081	PPB		18 Apr 2023 13:44:26	ARI 5 ppb (NO 0.05)
23A0417-06	0.3202	PPB		18 Apr 2023 13:46:46	ARI 5 ppb (NO 0.05)
23A0417-07	0.2233	PPB		18 Apr 2023 13:49:07	ARI 5 ppb (NO 0.05)
23A0417-08	0.9043	PPB		18 Apr 2023 13:51:27	ARI 5 ppb (NO 0.05)
SEQ-CCV	98.1% 3.9230	PPB	✓	18 Apr 2023 13:53:46	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0100	PPB	✓	18 Apr 2023 13:56:05	ARI 5 ppb (NO 0.05)
23A0417-09	0.2642	PPB		18 Apr 2023 13:58:26	ARI 5 ppb (NO 0.05)
23A0417-10	0.2636	PPB		18 Apr 2023 14:00:45	ARI 5 ppb (NO 0.05)
23A0417-11	0.2958	PPB		18 Apr 2023 14:03:05	ARI 5 ppb (NO 0.05)
23A0417-12	0.2787	PPB		18 Apr 2023 14:05:25	ARI 5 ppb (NO 0.05)
23A0417-13	0.2837	PPB		18 Apr 2023 14:07:45	ARI 5 ppb (NO 0.05)
23A0417-14	0.5607	PPB		18 Apr 2023 14:10:05	ARI 5 ppb (NO 0.05)
23A0417-15	0.2086	PPB		18 Apr 2023 14:12:24	ARI 5 ppb (NO 0.05)
23A0420-01	0.3929	PPB		18 Apr 2023 14:14:44	ARI 5 ppb (NO 0.05)
23A0420-07	0.5354	PPB		18 Apr 2023 14:17:04	ARI 5 ppb (NO 0.05)
23A0420-08	0.4502	PPB		18 Apr 2023 14:19:25	ARI 5 ppb (NO 0.05)
SEQ-CCV	98.5% 3.9388	PPB	✓	18 Apr 2023 14:21:46	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0098	PPB	✓	18 Apr 2023 14:24:05	ARI 5 ppb (NO 0.05)
~~23A0420-09~~	~~10.1167~~	~~PPB~~	Del	18 Apr 2023 14:26:26	ARI 5 ppb (NO 0.05)
BLD0397-PS1	1.9006	PPB	✓	18 Apr 2023 14:28:46	ARI 5 ppb (NO 0.05)
SEQ-CCV	99.7% 3.9878	PPB	✓	18 Apr 2023 14:31:08	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0103	PPB	✓	18 Apr 2023 14:33:26	ARI 5 ppb (NO 0.05)
23A0420-09	1.9110	PPB	5X	18 Apr 2023 14:36:03	ARI 5 ppb (NO 0.05)
SEQ-CCV	98.1% 3.9258	PPB	✓	18 Apr 2023 14:38:23	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0097	PPB	✓	18 Apr 2023 14:40:42	ARI 5 ppb (NO 0.05)

ARI 5 ppb (NO 0.05)



Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
SEQ-CAL1 - Blank	0.000	0.000	0.000	41	0.000	41	41	41		
SEQ-CAL2 - 0.1 PPB	0.100	0.103	0.003	622	1.3 %	618	633	615		
SEQ-CAL3 - 0.5 PPB	0.500	0.505	0.005	2899	0.2 %	2901	2892	2905		
SEQ-CAL4 - 1.0 PPB	1.000	0.988	-0.012	5633	1.5 %	5527	5638	5734		
SEQ-CAL5 - 2.0 PPB	2.000	2.004	0.004	11389	0.8 %	11258	11427	11483		
SEQ-CAL6 - 5.0 PPB	5.000	5.000	0.000	28354	0.1 %	28315	28384	28363		

AOC

SWN

SMM

Work	ICPMS Samples	HG Samples
23A0157	10	10
23A0158	13	13
23A0179	12	12
23A0180	4	4
23A0206	14	14
23A0207	12	0
23A0249	8	7
23A0295	10	9
23A0313	8	5
23A0326	9	7
23A0328	11	11
23A0417	15	15
23A0418	11	0
23A0419	12	12
23A0420	5	4
23A0455	18	18
23A0467	9	9
23C0071	7	7
23C0107		
23C0108	5	5
23C0109	2	2
23C0752	5	5
22C0774	5 4	5 4
23D0008		
23D0037		
23D0063		
23D0136		

Mercury Analysis Log

Analyst: ML
Instrument: HYDRA

Date: 04/18/23
Page: 1 of 3

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
SEQ -CAL1	SMM	1X		
-CAL2				
-CAL3				
-CAL4				
-CAL5				
-CAL6				
-ICV			✓4.03	
-ICB			✓-0.006	
-CRL			✓0.097	
-CCV			✓4.08	
-CCB			✓-0.007	
BLD0366 -BLK1				
-LCS1			✓1.794	89.7 1.R
23C0774 -01				
BLD0366 -DUP1				RPD=27.01
-MS1			✓1.319	97.1 1.R
-MSD1			✓1.415	106.7 1.R
23C0752 -01				
-02				
-03				
-04				
SEQ -CCV			✓4.01	
-CCB			✓-0.010	
23C0752 -06				
23C0774 -02				
-03				
-04				
-05				
-06				
-07				

Chemical/Reagent ID:
10% $SnCl_2$: L3091
14% NH_2OH/NaCl: L3351
Standard ID:
Standard: L4167-L4172
ICV/CCV: L4165

Mercury Analysis Log

Analyst: —

Instrument: ✓

Date: —

Page: 2 of 3

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
-08				
-09				
↓ -10				
SEQ -CCV			✓ 3.89	
↓ -CCB			✓ -0.009	
23C0774 -11				
-12				
-13				
↓ -14				
BLD0395 -BIK1				
↓ -BS1			✓ 1.739	86.9 %R
23A0326 -01				
BLD0395 -DUP1				
-MS1			✓ 1.329	97.4 %R
↓ -MSD1			✓ 1.759	140.3 %R
SEQ -CCV			✓ 3.86	
↓ -CCB			✓ -0.011	
23A0326 -02				
-04				
-05				
-10				
-11				
↓ -12				
BLD0395 -PS1			✓ 1.447	109.1 %R
BLD0397 -BIK1				
↓ -BS1			✓ 1.747	87.3 %R
23A0417 -01				
SEQ -CCV			✓ 3.60	
↓ -CCB				
BLD0397 -DUP1				NO RPD

Chemical/Reagent ID:

10% $SnCl_2$: —

14% NH_2OH/NaCl: —

Standard ID: —

Standard: _____

ICV/CCV: —

Mercury Analysis Log

Analyst: — Date: —

Instrument: — Page: 3 of 3

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
-MS1			x 1.301	65.1 %R
-MSD1			x 1.372	72.2 %R
23A0417 -02				
-03				
-04				
-05				
-06				
-07				
-08				
SEQ -CCV			√ 3.92	
-CCB			√ -0.01	
23A0417 -09				
-10				
-11				
-12				
-13				
-14				
-15				
23A0420 -01				
-07				
-08				
SEQ -CCV			√ 3.93	
-CCB			√ -0.009	
23A0420 -09				Rerun at d.1
BLD0397 -BS1			1.90	125.1 %R
SEQ -CCV			√ 3.98	
-CCB			√ -0.01	
23A0420 -09		5X		
SEQ -CCV		1X		
-CCB				

Chemical/Reagent ID:

10% $SnCl_2$: — 14% NH_2OH/NaCl: —

Standard ID: —

Standard: — ICV/CCV: —

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 7471B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: HYDRA
Calibration: GD00044
Control Limt: +/- 20.00%
Sequence: SLD0238

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLD0238-ICV1	Mercury	0.0040000	0.00404	101	mg/L	EPA 7471B
SLD0238-CCV1	Mercury	0.0040000	0.00408	102	mg/L	EPA 7471B
SLD0238-CCV2	Mercury	0.0040000	0.00401	100	mg/L	EPA 7471B
SLD0238-CCV3	Mercury	0.0040000	0.00389	97.4	mg/L	EPA 7471B
SLD0238-CCV4	Mercury	0.0040000	0.00387	96.7	mg/L	EPA 7471B
SLD0238-CCV5	Mercury	0.0040000	0.00361	90.2	mg/L	EPA 7471B
SLD0238-CCV6	Mercury	0.0040000	0.00392	98.1	mg/L	EPA 7471B
SLD0238-CCV7	Mercury	0.0040000	0.00394	98.5	mg/L	EPA 7471B
SLD0238-CCV8	Mercury	0.0040000	0.00399	99.7	mg/L	EPA 7471B
SLD0238-CCV9	Mercury	0.0040000	0.00393	98.1	mg/L	EPA 7471B

* Values outside of QC limits

INSTRUMENT BLANKS
EPA 7471B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: HYDRA
Sequence: SLD0238

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00044
Date Analyzed: 04/18/23 11:29

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0238-ICB1	Mercury	-0.000007	0.000021	0.000100	mg/L	
SLD0238-CCB1	Mercury	-0.000007	0.000021	0.000100	mg/L	
SLD0238-CCB2	Mercury	-0.000010	0.000021	0.000100	mg/L	
SLD0238-CCB3	Mercury	-0.000009	0.000021	0.000100	mg/L	
SLD0238-CCB4	Mercury	-0.000012	0.000021	0.000100	mg/L	
SLD0238-CCB5	Mercury	-0.000014	0.000021	0.000100	mg/L	
SLD0238-CCB6	Mercury	-0.000010	0.000021	0.000100	mg/L	
SLD0238-CCB7	Mercury	-0.000010	0.000021	0.000100	mg/L	
SLD0238-CCB8	Mercury	-0.000010	0.000021	0.000100	mg/L	
SLD0238-CCB9	Mercury	-0.000010	0.000021	0.000100	mg/L	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 7471B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0238
Instrument: HYDRA
Calibration: GD00044

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Cal Standard	SLD0238-CAL1	SMM 04-18-23-001	NA	04/18/23 10:43
Cal Standard	SLD0238-CAL2	SMM 04-18-23-002	NA	04/18/23 10:45
Cal Standard	SLD0238-CAL3	SMM 04-18-23-003	NA	04/18/23 10:48
Cal Standard	SLD0238-CAL4	SMM 04-18-23-004	NA	04/18/23 10:50
Cal Standard	SLD0238-CAL5	SMM 04-18-23-005	NA	04/18/23 10:53
Cal Standard	SLD0238-CAL6	SMM 04-18-23-006	NA	04/18/23 10:55
Initial Cal Check	SLD0238-ICV1	SMM 04-18-23-007	NA	04/18/23 11:26
Initial Cal Blank	SLD0238-ICB1	SMM 04-18-23-008	NA	04/18/23 11:29
Instrument RL Check	SLD0238-CRL1	SMM 04-18-23-009	NA	04/18/23 11:31
Calibration Check	SLD0238-CCV1	SMM 04-18-23-010	NA	04/18/23 11:33
Calibration Blank	SLD0238-CCB1	SMM 04-18-23-011	NA	04/18/23 11:36
Blank	BLD0366-BLK1	SMM 04-18-23-012	Solid	04/18/23 11:38
LCS	BLD0366-BS1	SMM 04-18-23-013	Solid	04/18/23 11:40
LDW23-SS1026	23C0752-01	SMM 04-18-23-018	Solid	04/18/23 11:52
LDW23-SS1125	23C0752-02	SMM 04-18-23-019	Solid	04/18/23 11:54
LDW23-SS1132	23C0752-03	SMM 04-18-23-020	Solid	04/18/23 11:57
LDW23-SS1810	23C0752-04	SMM 04-18-23-021	Solid	04/18/23 11:59
Calibration Check	SLD0238-CCV2	SMM 04-18-23-022	NA	04/18/23 12:01
Calibration Blank	SLD0238-CCB2	SMM 04-18-23-023	NA	04/18/23 12:04
LDW23-SS1809	23C0752-06	SMM 04-18-23-024	Solid	04/18/23 12:06
Calibration Check	SLD0238-CCV3	SMM 04-18-23-034	NA	04/18/23 12:29
Calibration Blank	SLD0238-CCB3	SMM 04-18-23-035	NA	04/18/23 12:32
Calibration Check	SLD0238-CCV4	SMM 04-18-23-046	NA	04/18/23 12:57
Calibration Blank	SLD0238-CCB4	SMM 04-18-23-047	NA	04/18/23 13:00
Calibration Check	SLD0238-CCV5	SMM 04-18-23-058	NA	04/18/23 13:25
Calibration Blank	SLD0238-CCB5	SMM 04-18-23-059	NA	04/18/23 13:28
Calibration Check	SLD0238-CCV6	SMM 04-18-23-070	NA	04/18/23 13:53
Calibration Blank	SLD0238-CCB6	SMM 04-18-23-071	NA	04/18/23 13:56
Calibration Check	SLD0238-CCV7	SMM 04-18-23-082	NA	04/18/23 14:21

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 7471B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLD0238

SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: HYDRA
Calibration: GD00044

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SLD0238-CCB7	SMM 04-18-23-083	NA	04/18/23 14:24
Calibration Check	SLD0238-CCV8	SMM 04-18-23-086	NA	04/18/23 14:31
Calibration Blank	SLD0238-CCB8	SMM 04-18-23-087	NA	04/18/23 14:33
Calibration Check	SLD0238-CCV9	SMM 04-18-23-089	NA	04/18/23 14:38
Calibration Blank	SLD0238-CCB9	SMM 04-18-23-090	NA	04/18/23 14:40

DETECTION LEVEL STANDARD
EPA 7471B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: HYDRA
Sequence: SLD0238

SDG: 23C0752
Project: AOC5 MR Phase 1
Calibration: GD00044
Lab Sample ID: SLD0238-CRL1

Analyte	True	Found	%R	Units	QC Limts
Mercury	0.000100	0.000097	97.1	mg/L	70 - 130

* Values outside of QC limits

HOLDING TIME SUMMARY

Analysis: EPA 7471B

Laboratory: Analytical Resources, LLC SDG: 23C0752

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

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1026 23C0752-01	03/30/23 10:37	03/30/23 16:25	04/17/23 12:55	18	28	04/18/23 11:52	19	28	
LDW23-SS1125 23C0752-02	03/30/23 11:10	03/30/23 16:25	04/17/23 12:55	18	28	04/18/23 11:54	19	28	
LDW23-SS1132 23C0752-03	03/30/23 11:30	03/30/23 16:25	04/17/23 12:55	18	28	04/18/23 11:57	19	28	
LDW23-SS1810 23C0752-04	03/30/23 10:36	03/30/23 16:25	04/17/23 12:55	18	28	04/18/23 11:59	19	28	
LDW23-SS1809 23C0752-06	03/30/23 14:30	03/30/23 16:25	04/17/23 12:55	17	28	04/18/23 12:06	19	28	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 7471B

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: HYDRA

Analyte	MDL	RL	Units
Mercury	0.00525	0.0250	mg/kg

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Certificate of Analysis

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGHG1
Lot Number:	S2-HG711246
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Mercury
Starting Material:	Hg Metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1000 ± 3 µg/mL

Density: 1.026 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **1004 ± 6 µg/mL**
ICP Assay NIST SRM 3133 Lot Number: 160921

Assay Method #2 **998 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **1001 ± 3 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000210	M	Eu	<	0.000210	O	Na		0.000626	M	Se	<	0.008100	M	Zn	<	0.000810
M	Al		0.000161	O	Fe	<	0.001600	M	Nb	<	0.000410	O	Si		0.000626	M	Zr	<	0.000410
M	As	<	0.002500	M	Ga	<	0.000210	M	Nd	<	0.000210	M	Sm	<	0.000210				
O	Au	<	0.001700	M	Gd	<	0.000210	O	Ni	<	0.001400	M	Sn	<	0.000410				
M	B	<	0.008500	M	Ge	<	0.000410	M	Os	<	0.003900	O	Sr	<	0.000110				
M	Ba	<	0.000210	M	Hf	<	0.000210	O	P	<	0.029000	M	Ta	<	0.000210				
O	Be	<	0.000110	s	Hg	<		M	Pb	<	0.000210	M	Tb	<	0.000210				
M	Bi	<	0.001100	M	Ho	<	0.000210	M	Pd	<	0.003500	M	Te	<	0.005700				
O	Ca		0.004754	M	In	<	0.000210	M	Pr	<	0.000210	M	Th	<	0.000210				
M	Cd	<	0.000210	M	Ir	<	0.000210	M	Pt	<	0.000210	O	Ti	<	0.000430				
M	Ce	<	0.000210	O	K		0.000731	M	Rb	<	0.000210	O	Tl	<	0.005400				
M	Co	<	0.000210	M	La	<	0.000210	M	Re	<	0.000210	M	Tm	<	0.000210				
O	Cr	<	0.003300	O	Li	<	0.000110	M	Rh	<	0.001100	M	U	<	0.000410				
M	Cs	<	0.000410	M	Lu	<	0.000210	M	Ru	<	0.000810	M	V	<	0.000210				
M	Cu	<	0.000810	O	Mg		0.000104	O	S	<	0.022000	M	W	<	0.001100				
M	Dy	<	0.000210	O	Mn	<	0.000430	M	Sb	<	0.000210	M	Y	<	0.000210				
M	Er	<	0.000210	M	Mo	<	0.000210	M	Sc	<	0.000210	M	Yb	<	0.000210				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+
Chemical Compatibility - Stable in HNO3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.
Stability - 2-100 ppb levels not stable in 1% HNO3 / LDPE container, stable in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.
Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO3); Oxide (Soluble in HNO3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 18, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 18, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

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info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	QCP-QCS-4
Lot Number:	R2-MEB695951
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	5 µg/mL ea: Mercury

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Mercury, Hg	**5.011 ± 0.023 µg/mL**		

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	061204
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The follow ing equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 20, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 20, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW23-SS1026

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-01 D	SDG:	23C0752
Sampled:	03/30/23 10:37	Prepared:	03/31/23 15:48	File ID:	
% Solids:	52.10	Preparation:	No Prep Wet Chem	Analyzed:	03/31/23 15:50
Batch:	BLC0862	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	52.10	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW23-SS1125

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-02 D	SDG:	23C0752
Sampled:	03/30/23 11:10	Prepared:	03/31/23 15:48	File ID:	
% Solids:	49.27	Preparation:	No Prep Wet Chem	Analyzed:	03/31/23 15:50
Batch:	BLC0862	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	49.27	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW23-SS1132

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-03 D	SDG:	23C0752
Sampled:	03/30/23 11:30	Prepared:	03/31/23 15:48	File ID:	
% Solids:	50.77	Preparation:	No Prep Wet Chem	Analyzed:	03/31/23 15:50
Batch:	BLC0862	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	50.77	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW23-SS1810

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-04 D	SDG:	23C0752
Sampled:	03/30/23 10:36	Prepared:	03/31/23 15:48	File ID:	
% Solids:	52.64	Preparation:	No Prep Wet Chem	Analyzed:	03/31/23 15:50
Batch:	BLC0862	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	52.64	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW23-SC1810

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-05 D	SDG:	23C0752
Sampled:	03/30/23 11:00	Prepared:	03/31/23 15:48	File ID:	
% Solids:	52.84	Preparation:	No Prep Wet Chem	Analyzed:	03/31/23 15:50
Batch:	BLC0862	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	52.84	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW23-SS1809

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-06 D	SDG:	23C0752
Sampled:	03/30/23 14:30	Prepared:	03/31/23 15:48	File ID:	
% Solids:	48.44	Preparation:	No Prep Wet Chem	Analyzed:	03/31/23 15:50
Batch:	BLC0862	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	48.44	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW23-SC1809

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-07 D	SDG:	23C0752
Sampled:	03/30/23 14:55	Prepared:	03/31/23 15:48	File ID:	
% Solids:	51.80	Preparation:	No Prep Wet Chem	Analyzed:	03/31/23 15:50
Batch:	BLC0862	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	51.80	1	0.04	0.04	

PREPARATION BATCH SUMMARY

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BLC0862 Batch Matrix: Solid
Preparation: No Prep Wet Chem

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1026	23C0752-01		03/31/23 15:48	
LDW23-SS1125	23C0752-02		03/31/23 15:48	
LDW23-SS1132	23C0752-03		03/31/23 15:48	
LDW23-SS1810	23C0752-04		03/31/23 15:48	
LDW23-SC1810	23C0752-05		03/31/23 15:48	
LDW23-SS1809	23C0752-06		03/31/23 15:48	
LDW23-SC1809	23C0752-07		03/31/23 15:48	
Blank	BLC0862-BLK1		03/31/23 15:48	
LDW23-SS1026	BLC0862-DUP1		03/31/23 15:48	
LDW23-SS1026	BLC0862-DUP2		03/31/23 15:48	

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET for Solid samples

Method: PSEP 1986, SM2540, EPA 160.1

(dry at 104 (12-24 hr) then combust at 550 (30 min))

Batch:	BLC0862
Date:	3/31/2023 15:50
Analyst:	UW

Instrumentation			
Drying Ovens:	12	**Analytical Balance:**	BAL2
Muffle Furnace:	2		

Batch drying time				**Oven Temps, °C**	
record times as mm/dd/yy hh:mm		TS (%) calculated as:	Start Temp	105	TVS (mg/kg dry wt) calculated as:
date/time in oven:	3/31/2023 16:15	Final dry wt (g) = (Dry Wt - Tare Wt)	Dry Cycle 1	104	Final ash wt (g) = (min ash wt - tare wt)
date/time out:	4/3/2023 9:40	TS = (Final Dry Wt)/ (grams Sample-Tare)	Dry Cycle 2		TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000
elapsed hrs =	65.4	> 24 hr	Dry Cycle 3		if ash wt > dry wt, "Chk for Err"
					if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000

Balance Calibration Check

Record weights to 4 places											
Cal Weight ID:		CV-02	CV-02	CV-02	CV-02	CV-02		CV-02	CV-02	CV-02	
Date & Time:		3/31/23 15:53	3/31/23 15:56	4/3/23 10:05							
Cal Wt (g):	10.0000	9.9999	9.9999	10.0000							
		Cal OK!	Cal OK!	Cal OK!							

Sample ID	Dish #	Tare Wt. (g)	Dish & Sample (g)	Dry Wt 104C (grams)			dry Wt (g)	TS (%)	Notes	ASH WT 550C (grams)			Ash Wt (g)	TVS		Notes
				1	2	3				1	2	3		(mg/kg)	(%)	
BLC0862-BLK1	1	0.8174	0.0000	0.8175			0.0001	-0.01%								
23C0702-01	2	0.8170	8.1155	5.7159			4.8989	67.12%								
23C0750-02	3	0.8004	4.9382	2.1458			1.3454	32.51%								
23C0750-03	4	0.7947	3.5032	3.2708			2.4761	91.42%								
23C0752-01	5	0.7854	8.6747	4.8955			4.1101	52.10%								
BLC0862-DUP1	6	0.8145	7.6611	4.3901			3.5756	52.22%	RPD=0.2							
BLC0862-DUP2	7	0.8085	7.2779	4.1696			3.3611	51.95%	RSD=0.3							
23C0752-02	8	0.8142	6.9477	3.8363			3.0221	49.27%								
23C0752-03	9	0.7979	7.1439	4.0195			3.2216	50.77%								
23C0752-04	10	0.8165	8.1446	4.6737			3.8572	52.64%								
23C0752-05	11	0.7907	7.6248	4.4019			3.6112	52.84%								
23C0752-06	12	0.7874	8.2312	4.3935			3.6061	48.44%								
23C0752-07	13	0.8081	7.5692	4.3101			3.5020	51.80%								
23C0766-01	14	0.8112	5.0752	1.9170			1.1058	25.93%								

Form I

METHOD BLANK DATA SHEET

SM 2540 G-97

TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BLC0862
Laboratory ID: BLC0862-BLK1
Prepared: 03/31/23 15:48
Matrix: Solid
Preparation: No Prep Wet Chem
Analyzed: 03/31/23 15:50
Sequence:
Calibration:
Instrument: BAL2

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	ND	1	0.04	0.04	U

DUPLICATES

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BLC0862-DUP1
Batch: BLC0862
Lab Source ID: 23C0752-01
Preparation: No Prep Wet Chem
Initial/Final: 5 g / 5 g
Source Sample Name: LDW23-SS1026
% Solids: 52.10

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Solids	20	52.10	52.22	0.244	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

DUPLICATES

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BLC0862-DUP2
Batch: BLC0862
Lab Source ID: 23C0752-01
Preparation: No Prep Wet Chem
Initial/Final: 5 g / 5 g
Source Sample Name: LDW23-SS1026
% Solids: 52.10

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Solids	20	52.10	51.95	0.276	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

HOLDING TIME SUMMARY

Analysis: SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1026 23C0752-01	03/30/23 10:37	03/30/23 16:25	03/31/23 15:48	1	28	03/31/23 15:50	1	28	
LDW23-SS1125 23C0752-02	03/30/23 11:10	03/30/23 16:25	03/31/23 15:48	1	28	03/31/23 15:50	1	28	
LDW23-SS1132 23C0752-03	03/30/23 11:30	03/30/23 16:25	03/31/23 15:48	1	28	03/31/23 15:50	1	28	
LDW23-SS1810 23C0752-04	03/30/23 10:36	03/30/23 16:25	03/31/23 15:48	1	28	03/31/23 15:50	1	28	
LDW23-SC1810 23C0752-05	03/30/23 11:00	03/30/23 16:25	03/31/23 15:48	1	28	03/31/23 15:50	1	28	
LDW23-SS1809 23C0752-06	03/30/23 14:30	03/30/23 16:25	03/31/23 15:48	1	28	03/31/23 15:50	1	28	
LDW23-SC1809 23C0752-07	03/30/23 14:55	03/30/23 16:25	03/31/23 15:48	1	28	03/31/23 15:50	1	28	
Duplicate BLC0862-DUP1	03/30/23 10:37	03/30/23 16:25	03/31/23 15:48	1	28	03/31/23 15:50	1	28	
Duplicate BLC0862-DUP2	03/30/23 10:37	03/30/23 16:25	03/31/23 15:48	1	28	03/31/23 15:50	1	28	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument:

Analyte	MDL	RL	Units
Total Solids	0.04	0.04	%

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW23-SS1026

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-01 A	SDG:	23C0752
Sampled:	03/30/23 10:37	Prepared:	05/13/23 14:02	File ID:	CubeData_05222023@1029-045
% Solids:	52.10	Preparation:	No Prep Wet Chem	Analyzed:	05/20/23 10:11
Batch:	BLE0415	Sequence:	SLE0228	Initial/Final:	0.4634 g Wet / 0.4634 g
Instrument:	TOC Cube			Calibration:	GE00052

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.32	1	0.02	0.02	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW23-SS1125

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-02 A	SDG:	23C0752
Sampled:	03/30/23 11:10	Prepared:	05/13/23 14:02	File ID:	CubeData_05222023@1029-052
% Solids:	49.27	Preparation:	No Prep Wet Chem	Analyzed:	05/20/23 14:12
Batch:	BLE0415	Sequence:	SLE0228	Initial/Final:	0.4339 g Wet / 0.4339 g
Instrument:	TOC Cube			Calibration:	GE00052

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.29	1	0.02	0.02	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW23-SS1132

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-03 A	SDG:	23C0752
Sampled:	03/30/23 11:30	Prepared:	05/13/23 14:02	File ID:	CubeData_05222023@1029-053
% Solids:	50.77	Preparation:	No Prep Wet Chem	Analyzed:	05/20/23 14:43
Batch:	BLE0415	Sequence:	SLE0228	Initial/Final:	0.4726 g Wet / 0.4726 g
Instrument:	TOC Cube			Calibration:	GE00052

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	3.15	1	0.02	0.02	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW23-SS1810

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-04 A	SDG:	23C0752
Sampled:	03/30/23 10:36	Prepared:	05/13/23 14:02	File ID:	CubeData_05222023@1029-054
% Solids:	52.64	Preparation:	No Prep Wet Chem	Analyzed:	05/20/23 15:13
Batch:	BLE0415	Sequence:	SLE0228	Initial/Final:	0.5071 g Wet / 0.5071 g
Instrument:	TOC Cube			Calibration:	GE00052

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.07	1	0.02	0.02	

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Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW23-SC1810

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-05 A	SDG:	23C0752
Sampled:	03/30/23 11:00	Prepared:	05/13/23 14:02	File ID:	CubeData_05222023@1029-055
% Solids:	52.84	Preparation:	No Prep Wet Chem	Analyzed:	05/20/23 15:43
Batch:	BLE0415	Sequence:	SLE0228	Initial/Final:	0.5141 g Wet / 0.5141 g
Instrument:	TOC Cube			Calibration:	GE00052

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.30	1	0.02	0.02	

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Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW23-SS1809

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-06 A	SDG:	23C0752
Sampled:	03/30/23 14:30	Prepared:	05/13/23 14:02	File ID:	CubeData_05222023@1029-056
% Solids:	48.44	Preparation:	No Prep Wet Chem	Analyzed:	05/20/23 16:13
Batch:	BLE0415	Sequence:	SLE0228	Initial/Final:	0.5359 g Wet / 0.5359 g
Instrument:	TOC Cube			Calibration:	GE00052

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.53	1	0.02	0.02	

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Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW23-SC1809

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0752-07 A	SDG:	23C0752
Sampled:	03/30/23 14:55	Prepared:	05/13/23 14:02	File ID:	CubeData_05222023@1029-057
% Solids:	51.80	Preparation:	No Prep Wet Chem	Analyzed:	05/20/23 16:43
Batch:	BLE0415	Sequence:	SLE0228	Initial/Final:	0.4332 g Wet / 0.4332 g
Instrument:	TOC Cube			Calibration:	GE00052

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.15	1	0.02	0.02	

PREPARATION BATCH SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BLE0415 Batch Matrix: Solid
Preparation: No Prep Wet Chem

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1026	23C0752-01	eData_05222023@1029-	05/13/23 14:02	
LDW23-SS1125	23C0752-02	eData_05222023@1029-	05/13/23 14:02	
LDW23-SS1132	23C0752-03	eData_05222023@1029-	05/13/23 14:02	
LDW23-SS1810	23C0752-04	eData_05222023@1029-	05/13/23 14:02	
LDW23-SC1810	23C0752-05	eData_05222023@1029-	05/13/23 14:02	
LDW23-SS1809	23C0752-06	eData_05222023@1029-	05/13/23 14:02	
LDW23-SC1809	23C0752-07	eData_05222023@1029-	05/13/23 14:02	
Blank	BLE0415-BLK1	eData_05222023@1029-	05/13/23 14:02	
LCS	BLE0415-BS1	eData_05222023@1029-	05/13/23 14:02	
LDW23-SS1026	BLE0415-DUP1	eData_05222023@1029-	05/13/23 14:02	
MRL Check	BLE0415-MRL1	eData_05222023@1029-	05/13/23 14:02	
LDW23-SS1026	BLE0415-MS1	eData_05222023@1029-	05/13/23 14:02	
Reference	BLE0415-SRM1	eData_05222023@1029-	05/13/23 14:02	

Form I

METHOD BLANK DATA SHEET

EPA 9060A m

TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC | SDG: 23C0752

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

Batch: BLE0415 | Laboratory ID: BLE0415-BLK1 | Prepared: 05/13/23 14:02

Matrix: Solid | Preparation: No Prep Wet Chem | Analyzed: 05/19/23 15:36

Sequence: SLE0228 | Calibration: GE00052 | Instrument: TOC Cube

CAS NO.	Analyte	Concentration (% wet)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	ND	1	0.02	0.02	U

LCS / LCS DUPLICATE RECOVERY

EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	05/19/23 16:37
Batch:	BLE0415	Laboratory ID:	BLE0415-BS1
Preparation:	No Prep Wet Chem	Sequence Name:	LCS
Initial/Final:	0.0209 g / 0.0209 g		

COMPOUND	SPIKE ADDED (% wet)	LCS CONCENTRATION (% wet)	Q	LCS % REC. #	QC LIMITS REC.
Total Organic Carbon	44.4	44.0		99.0	80 - 120

* Indicates values outside of QC limits

DUPLICATES

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BLE0415-DUP1
Batch: BLE0415
Lab Source ID: 23C0752-01
Preparation: No Prep Wet Chem
Initial/Final: 0.4885 g / 0.4885 g
Source Sample Name: LDW23-SS1026
% Solids: 52.10

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Organic Carbon	20	2.32	2.40	3.17	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1026

MS / MS DUPLICATE RECOVERY
EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	05/20/23 11:11
Batch:	BLE0415	Laboratory ID:	BLE0415-MS1
Preparation:	No Prep Wet Chem	Sequence Name:	Matrix Spike
Initial/Final:	0.4593 g / 0.4593 g	Source Sample:	LDW23-SS1026

COMPOUND	SPIKE ADDED (% dry)	SAMPLE CONCENTRATION (% dry)	Q	MS CONCENTRATION (% dry)	Q	MS % REC. #	QC LIMITS REC.
Total Organic Carbon	1.56	2.32		4.40	HC	133 *	75 - 125

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0228

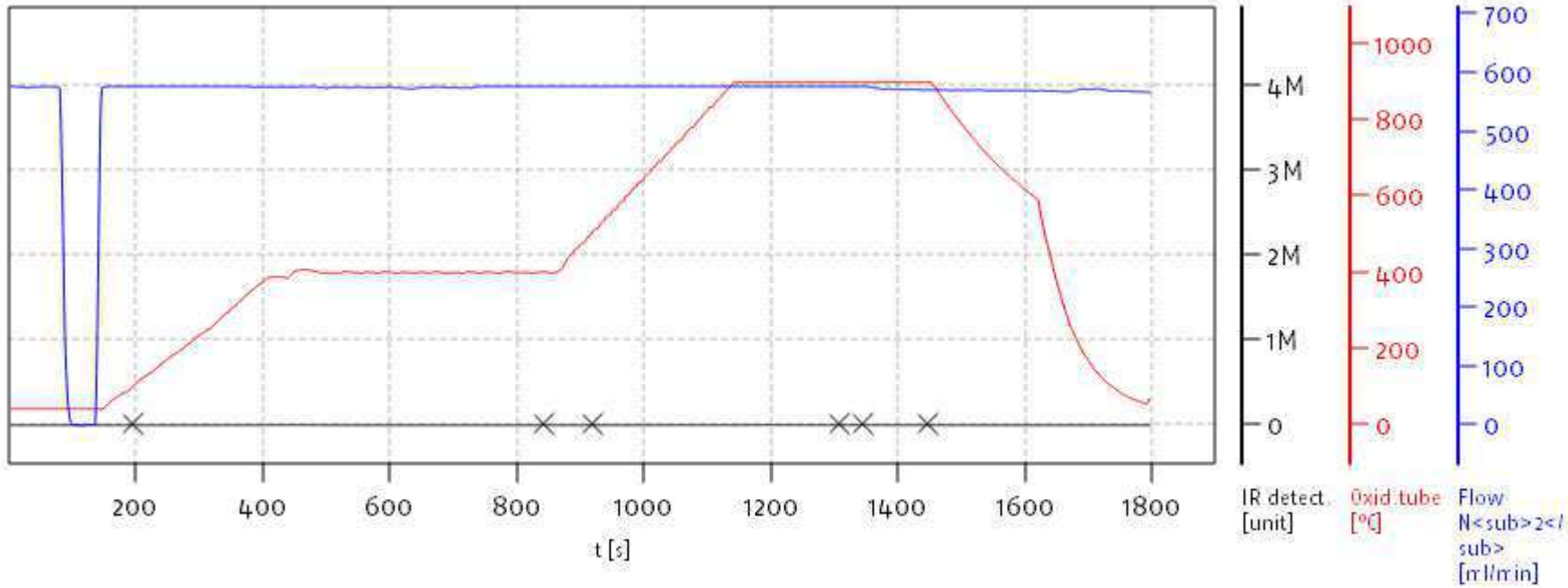
SDG: 23C0752
Project: AOC5 MR Phase 1
Instrument: TOC Cube
Calibration: GE00052

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Initial Cal Check	SLE0228-ICV1	CubeData_05222023@1029-003	NA	05/19/23 13:06
Initial Cal Blank	SLE0228-ICB1	CubeData_05222023@1029-004	NA	05/19/23 13:36
MRL Check	BLE0415-MRL1	CubeData_05222023@1029-006	Solid	05/19/23 14:36
Blank	BLE0415-BLK1	CubeData_05222023@1029-008	Solid	05/19/23 15:36
LCS	BLE0415-BS1	CubeData_05222023@1029-010	Solid	05/19/23 16:37
Reference	BLE0415-SRM1	CubeData_05222023@1029-012	Solid	05/19/23 17:37
Calibration Check	SLE0228-CCV1	CubeData_05222023@1029-015	NA	05/19/23 19:07
Calibration Blank	SLE0228-CCB1	CubeData_05222023@1029-016	NA	05/19/23 19:37
Calibration Check	SLE0228-CCV2	CubeData_05222023@1029-027	NA	05/20/23 01:09
Calibration Blank	SLE0228-CCB2	CubeData_05222023@1029-028	NA	05/20/23 01:39
Calibration Check	SLE0228-CCV3	CubeData_05222023@1029-039	NA	05/20/23 07:10
Calibration Blank	SLE0228-CCB3	CubeData_05222023@1029-040	NA	05/20/23 07:40
LDW23-SS1026	23C0752-01	CubeData_05222023@1029-045	Solid	05/20/23 10:11
LDW23-SS1026	BLE0415-DUP1	CubeData_05222023@1029-046	Solid	05/20/23 10:41
LDW23-SS1026	BLE0415-MS1	CubeData_05222023@1029-047	Solid	05/20/23 11:11
Calibration Check	SLE0228-CCV4	CubeData_05222023@1029-050	NA	05/20/23 13:12
Calibration Blank	SLE0228-CCB4	CubeData_05222023@1029-051	NA	05/20/23 13:42
LDW23-SS1125	23C0752-02	CubeData_05222023@1029-052	Solid	05/20/23 14:12
LDW23-SS1132	23C0752-03	CubeData_05222023@1029-053	Solid	05/20/23 14:43
LDW23-SS1810	23C0752-04	CubeData_05222023@1029-054	Solid	05/20/23 15:13
LDW23-SC1810	23C0752-05	CubeData_05222023@1029-055	Solid	05/20/23 15:43
LDW23-SS1809	23C0752-06	CubeData_05222023@1029-056	Solid	05/20/23 16:13
LDW23-SC1809	23C0752-07	CubeData_05222023@1029-057	Solid	05/20/23 16:43
Calibration Check	SLE0228-CCV5	CubeData_05222023@1029-062	NA	05/20/23 19:14
Calibration Blank	SLE0228-CCB5	CubeData_05222023@1029-063	NA	05/20/23 19:44
Calibration Blank	SLE0228-CCB6	CubeData_05222023@1029-073	NA	05/21/23 12:48
Calibration Check	SLE0228-CCV6	CubeData_05222023@1029-074	NA	05/21/23 13:20

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
1	1	BLANK	1.00		CARBON	5/ 19/2023 11:36 AM	bl	0.000	15 580	0.000	0.000	4 588	19 466	0.000	0.000	1.0000	1.0000



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Access: soliTOC superuser

Date: Mon May 22 10:19:17 2023

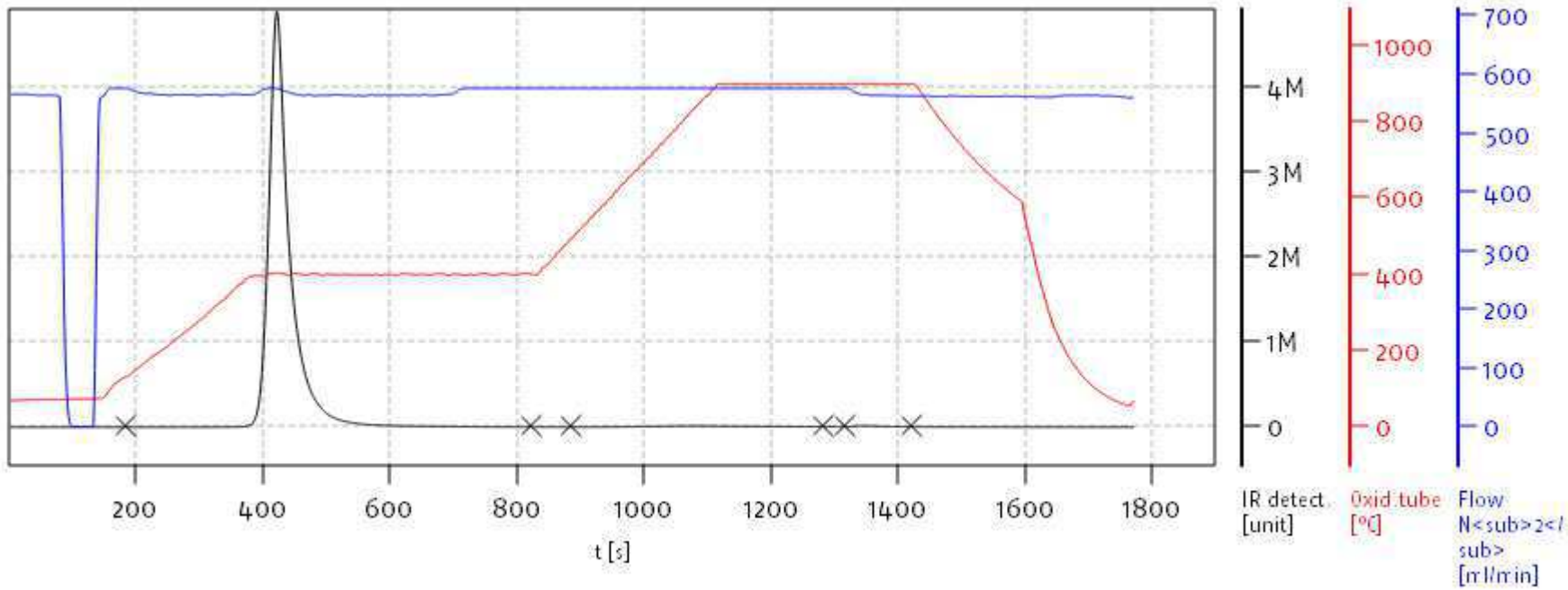
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 051923 CDE from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
2	2	Dfactor	24.30		CARBON	5/19/2023 12:06 PM	bl	44.474	7 069 850	45.003	0.028	33 187	109 976	44.446	0.529	0.9671	1.0000



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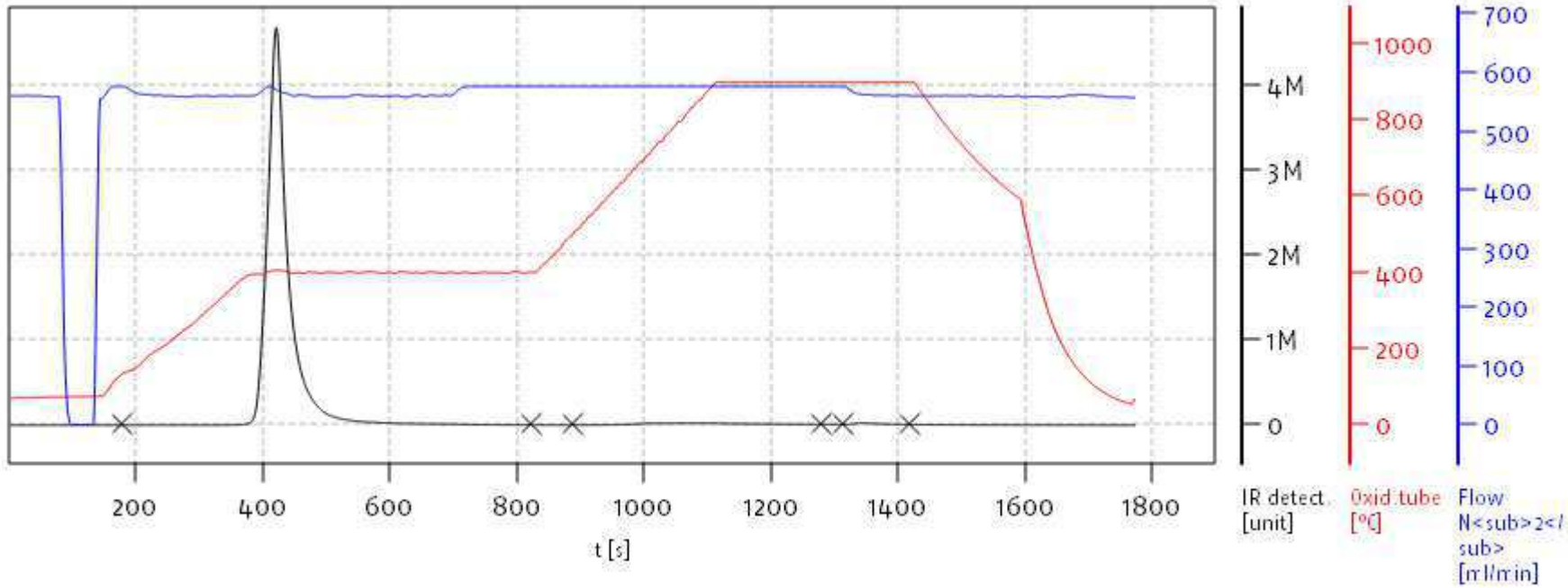
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
3	3	Dfactor	23.80		CARBON	5/19/2023 12:36 PM	bl	44.623	6 651 110	45.765	0.177	55 461	200 313	44.446	1.143	1.0071	1.0000



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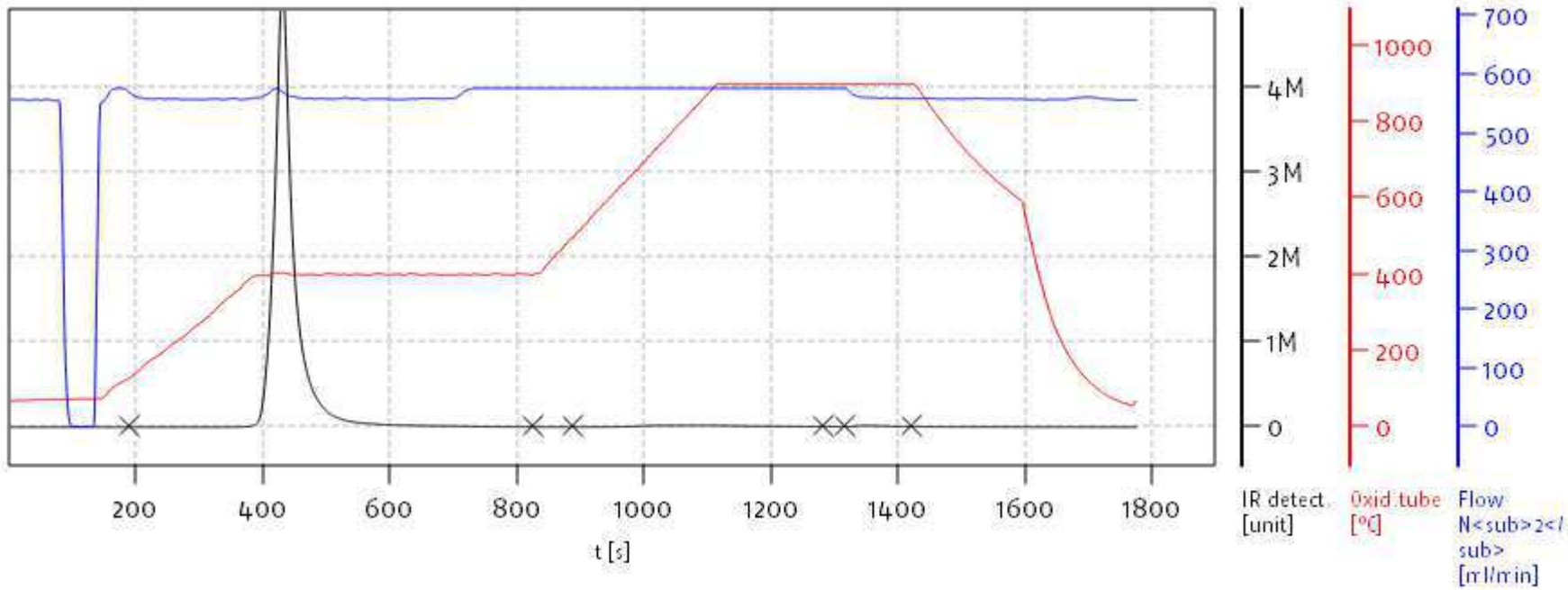
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
4	4	SLE0228-ICV1	24.30		CARBON	5/19/2023 1:06 PM	bl	44.373	6 903 152	45.232	0.083	41 528	160 379	44.291	0.858	0.9871	1.0000



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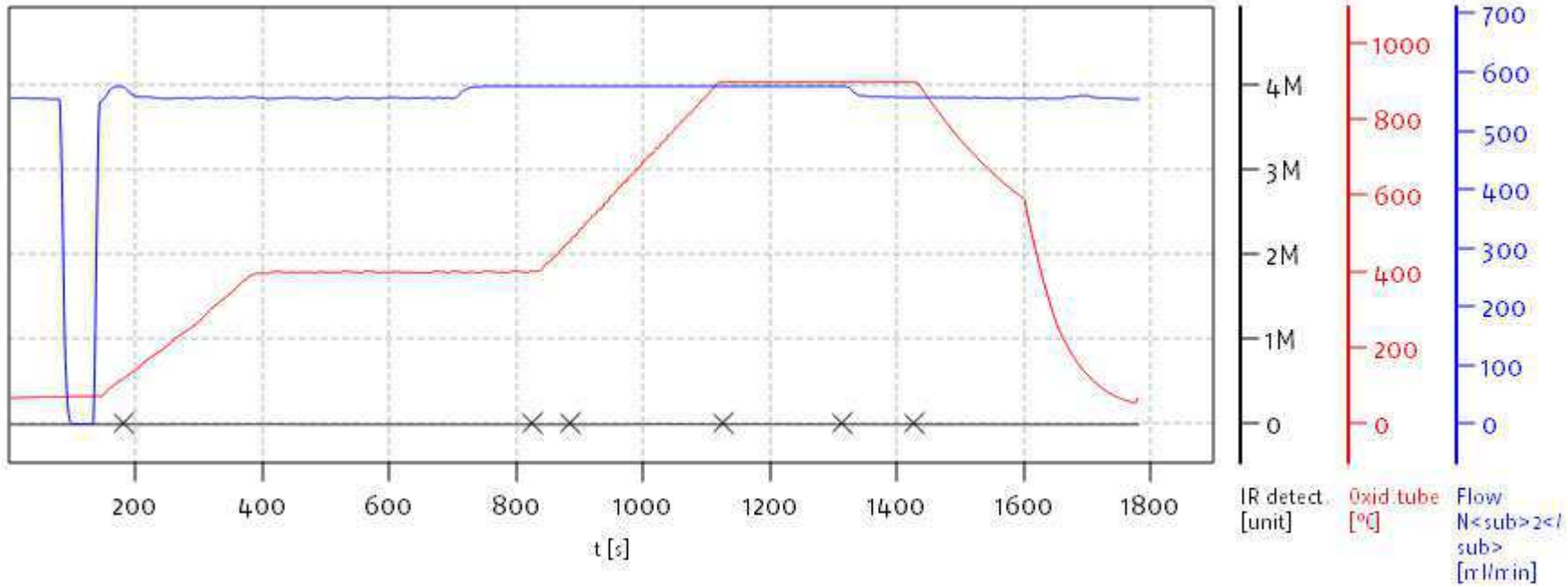
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
5	5	SLE0228-ICB1	598.50		CARBON	5/19/2023 1:36 PM	bl,C1u,C3u,C2u	0.000	10 855	0.000	0.000	3 290	10 743	0.000	0.000	0.9871	1.0000



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Balance: BAL3
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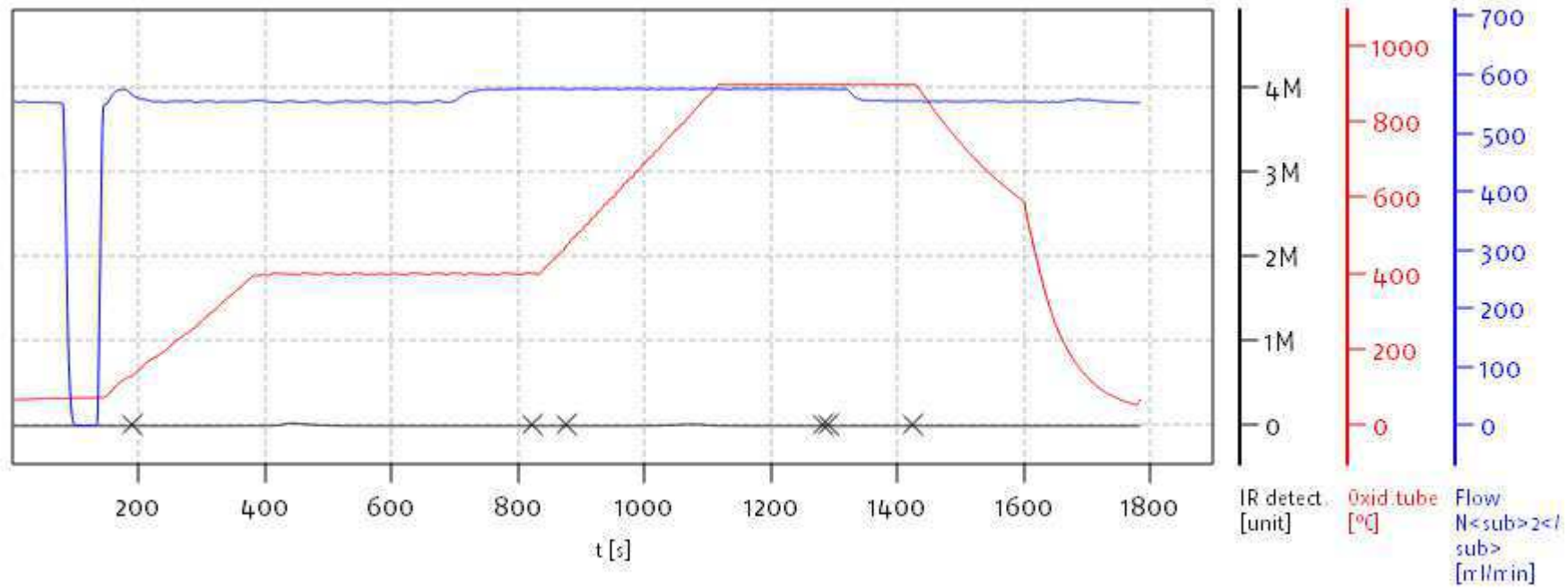
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
6	6	BLE0414-MRL1	517.10	517.1	CARBON	5/19/2023 2:06 PM	bl,C2u	0.011	66 663	0.016	0.000	1 069	43 275	0.011	0.004	0.9871	1.0000



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Balance: BAL3
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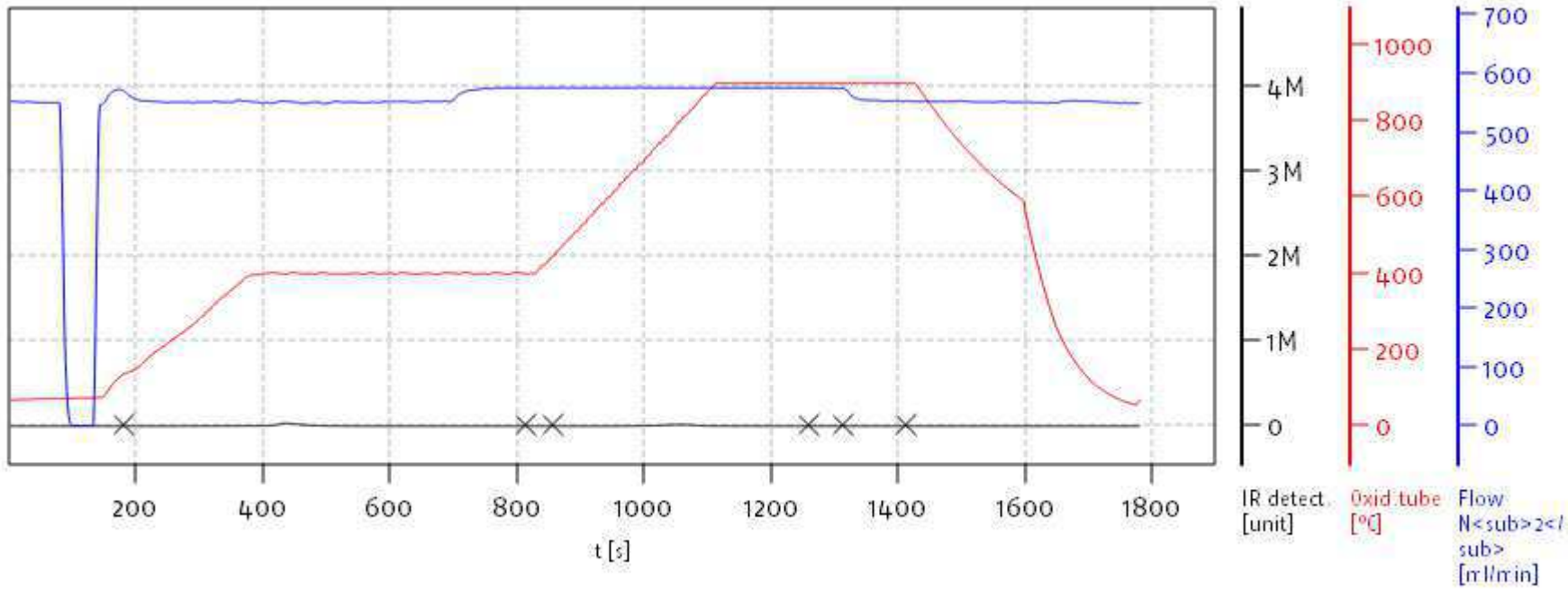
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
7	7	BLE0415-MRL1	509.50	509.5	CARBON	5/19/2023 2:36 PM	bl,C2u	0.013	72 664	0.020	0.000	1 237	48 923	0.013	0.006	0.9871	1.0000



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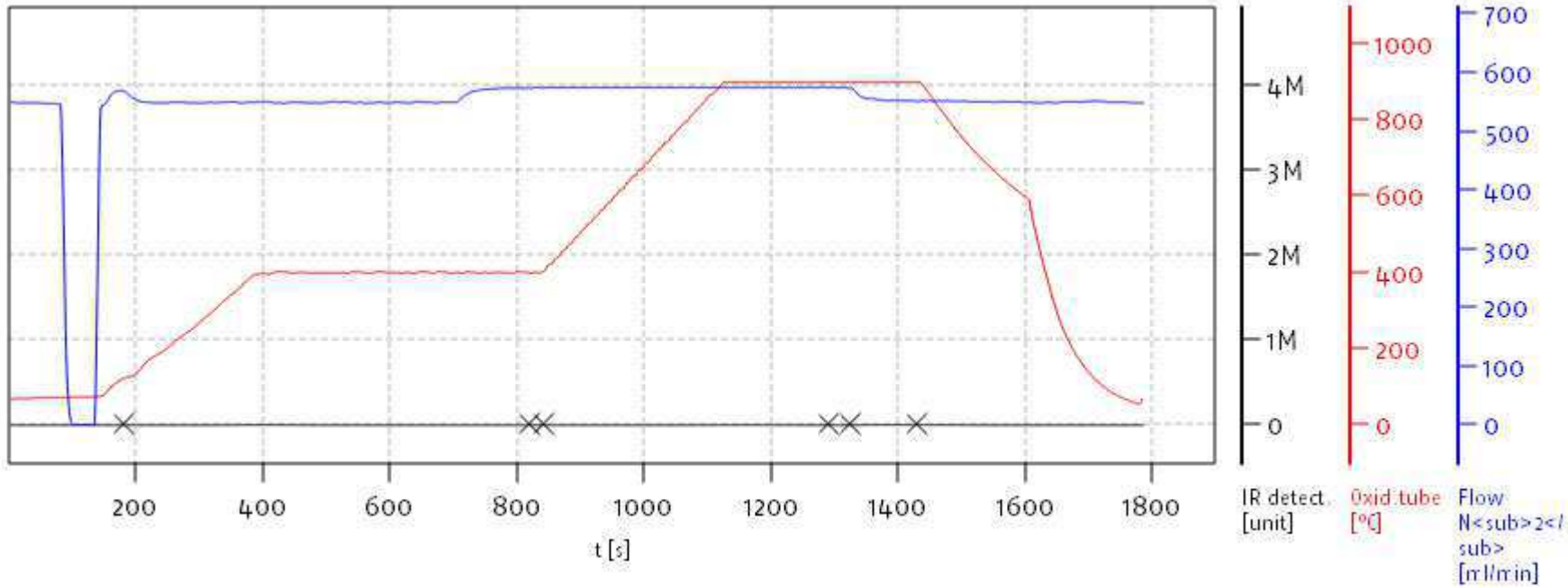
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
8	8	BLE0414-BLK1	548.00		CARBON	5/19/2023 3:06 PM	bl,C1u,C3u,C2u	0.000	13 702	0.000	0.000	11 222	10 881	0.000	0.000	0.9871	1.0000



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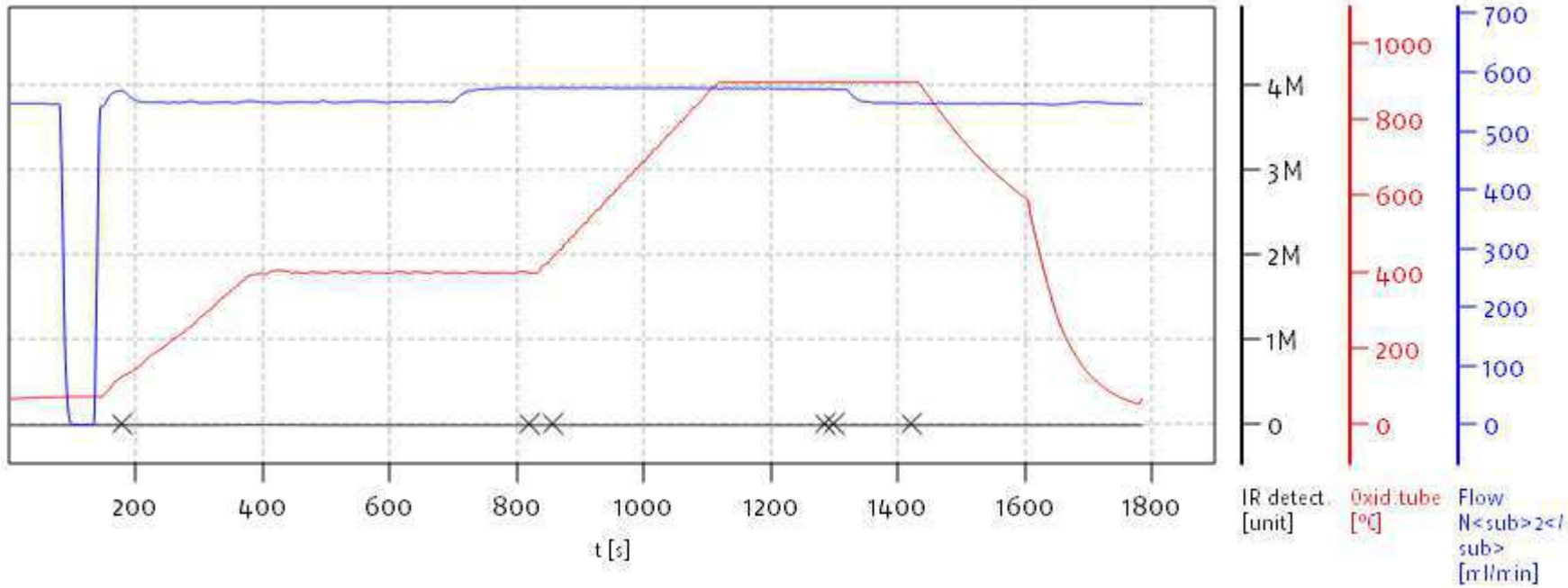
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
9	9	BLE0415-BLK1	511.70		CARBON	5/19/2023 3:36 PM	bl,C1u,C3u,C2u	0.000	13 930	0.000	0.000	919	5 953	0.000	0.000	0.9871	1.0000



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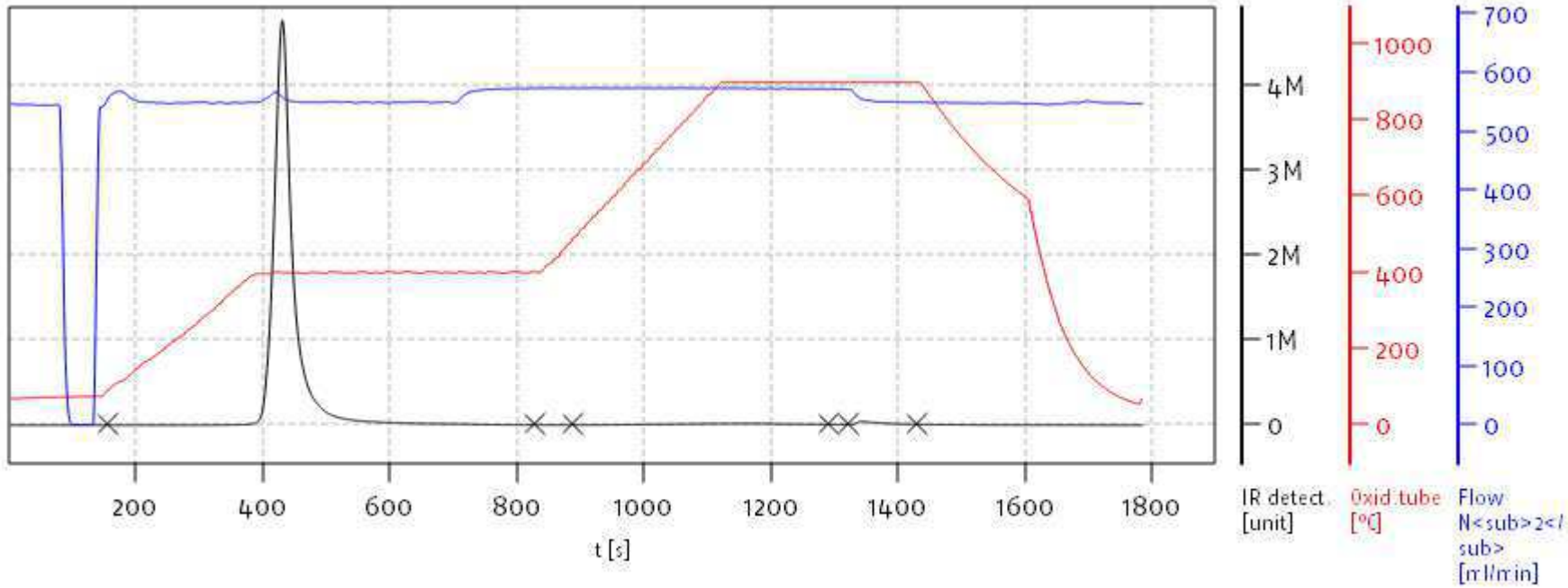
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
10	10	BLE0414-BS1	21.70	21.7	CARBON	5/19/2023 4:06 PM	bl	45.270	6 246 241	46.308	0.412	85 209	170 918	44.858	1.038	0.9871	1.0000



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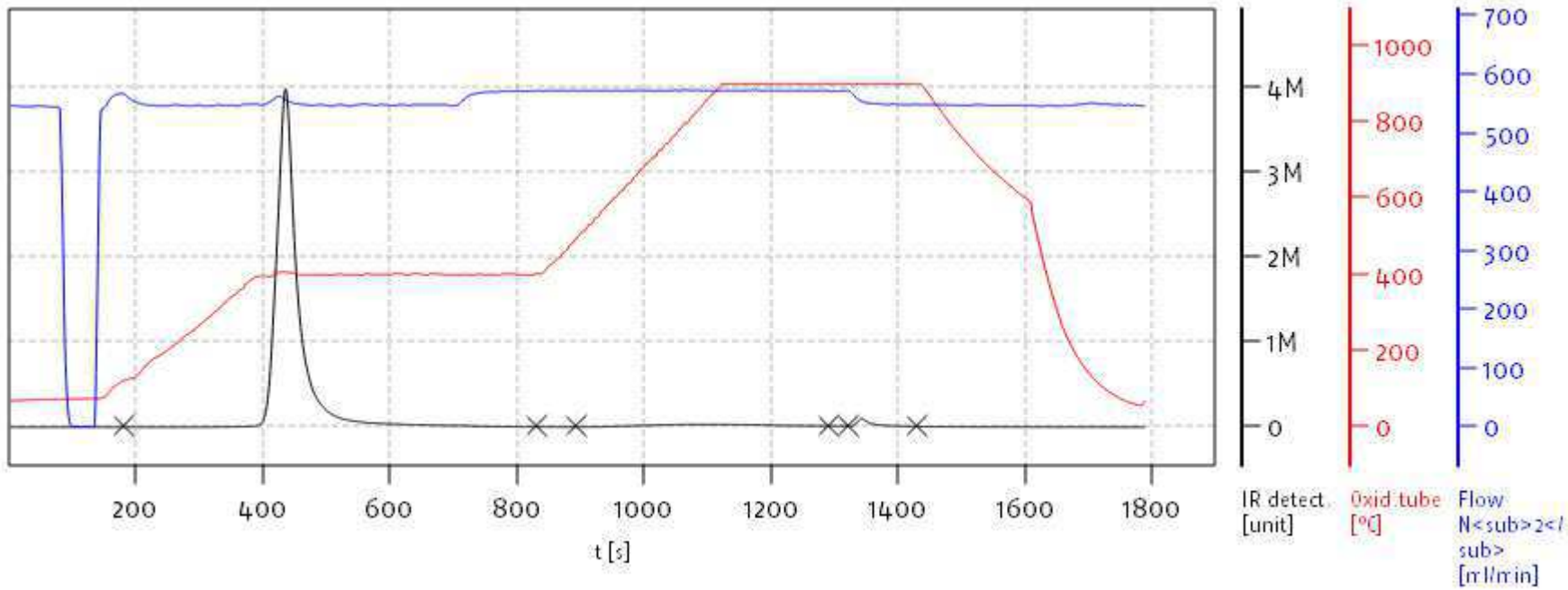
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
11	11	BLE0415-BS1	20.90	20.9	CARBON	5/19/2023 4:37 PM	bl	43.991	5 813 123	46.018	0.660	115 860	296 064	43.330	2.028	0.9871	1.0000



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Balance: BAL3
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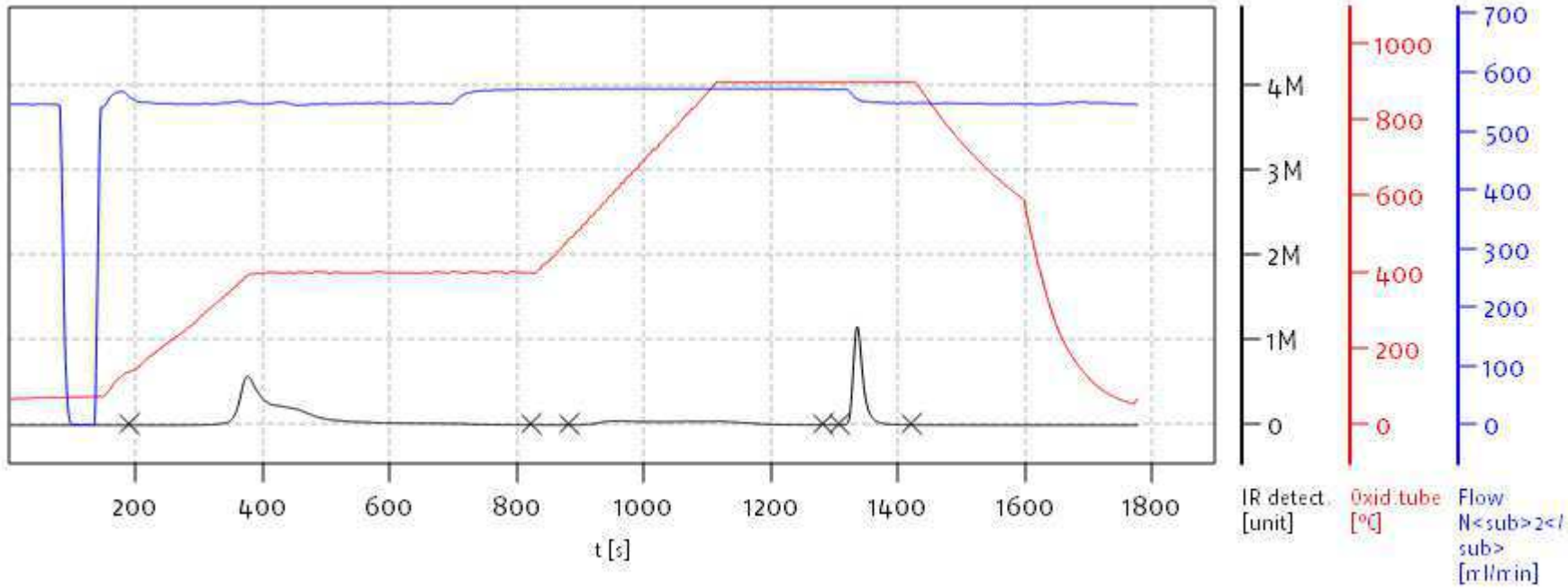
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
12	12	BLE0414-SRM1	136.40	136.4	CARBON	5/19/2023 5:07 PM	bl	2.781	1 677 274	3.225	0.889	793 514	410 879	1.892	0.444	0.9871	1.0000



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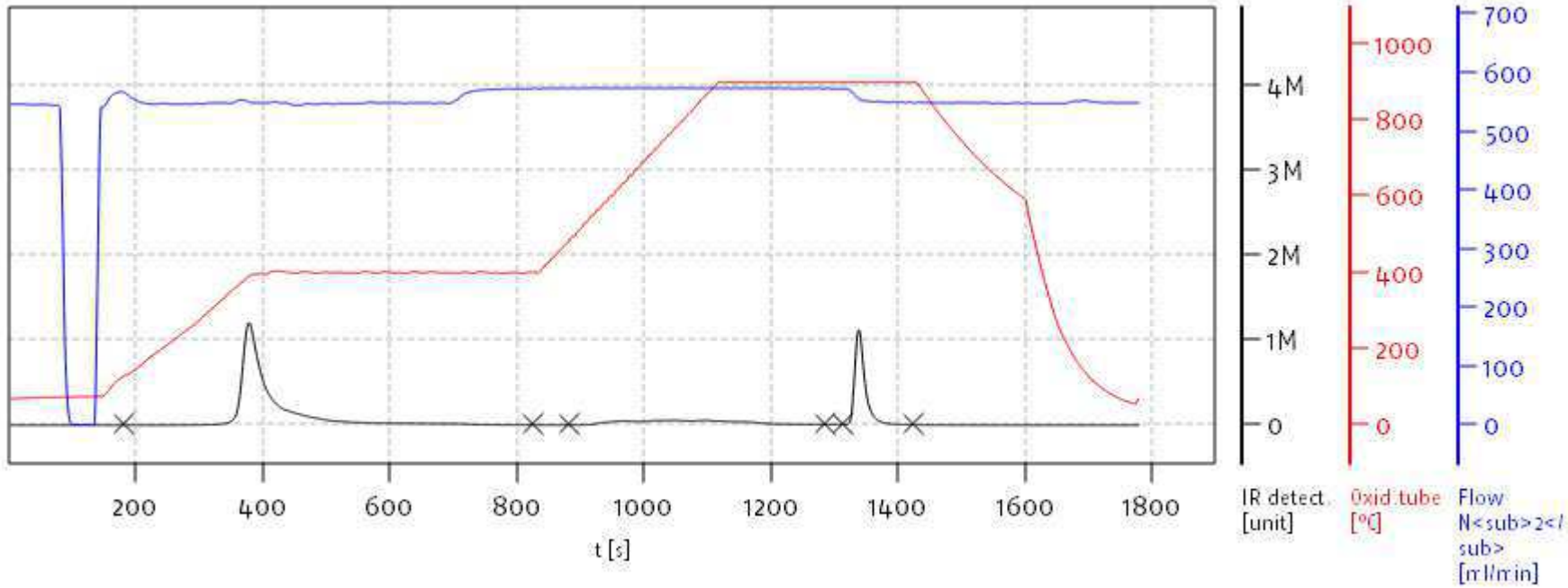
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
13	13	BLE0415-SRM1	159.90	159.9	CARBON	5/19/2023 5:37 PM	bl	2.874	2 184 702	3.339	0.764	798 711	497 276	2.111	0.465	0.9871	1.0000



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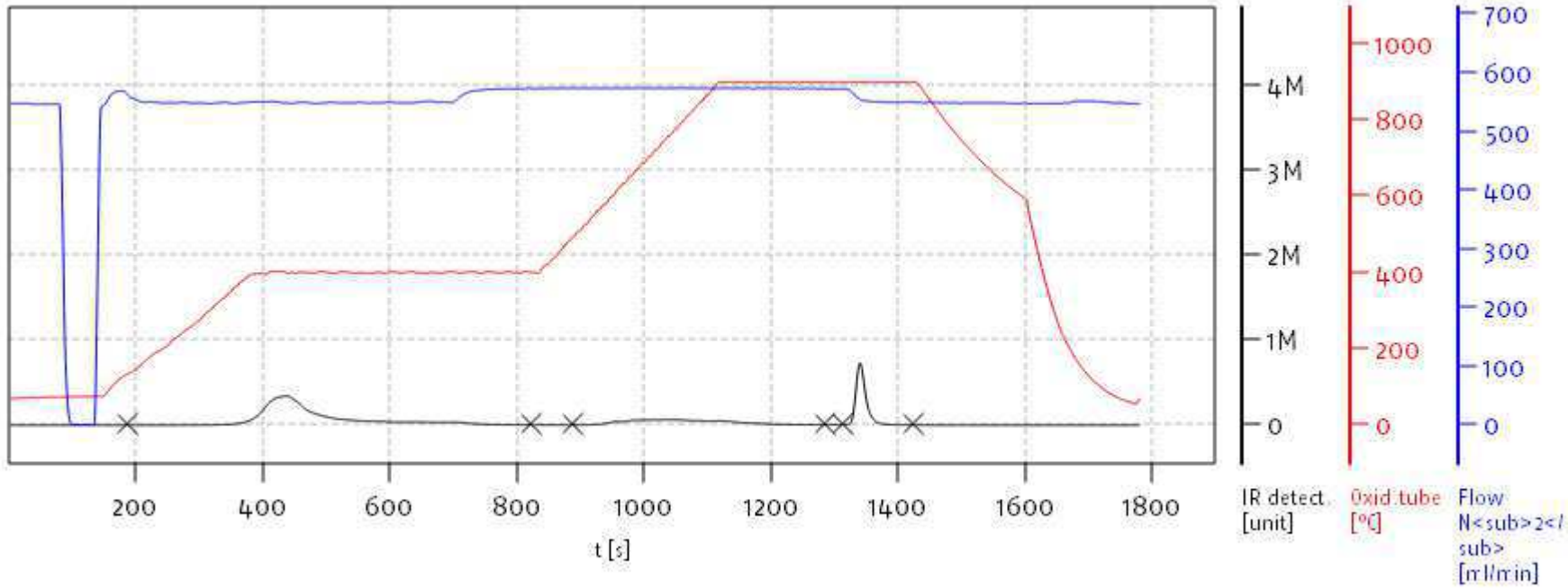
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
14	14	23D0571-01	587.90		CARBON	5/19/2023 6:07 PM	bl	0.495	1 412 232	0.618	0.127	499 555	485 055	0.368	0.123	0.9871	1.0000



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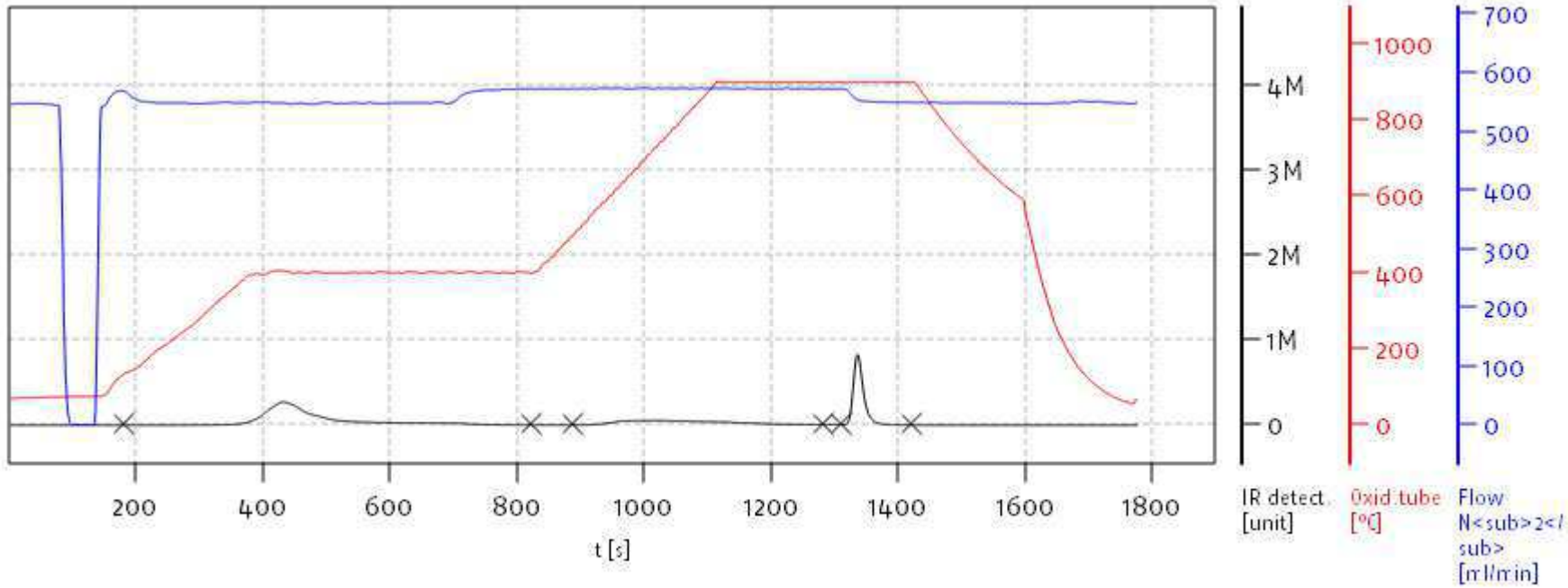
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
15	15	BLE0414-DUP1	516.80		CARBON	5/19/2023 6:37 PM	bl	0.486	1 068 946	0.609	0.171	585 449	429 445	0.315	0.123	0.9871	1.0000



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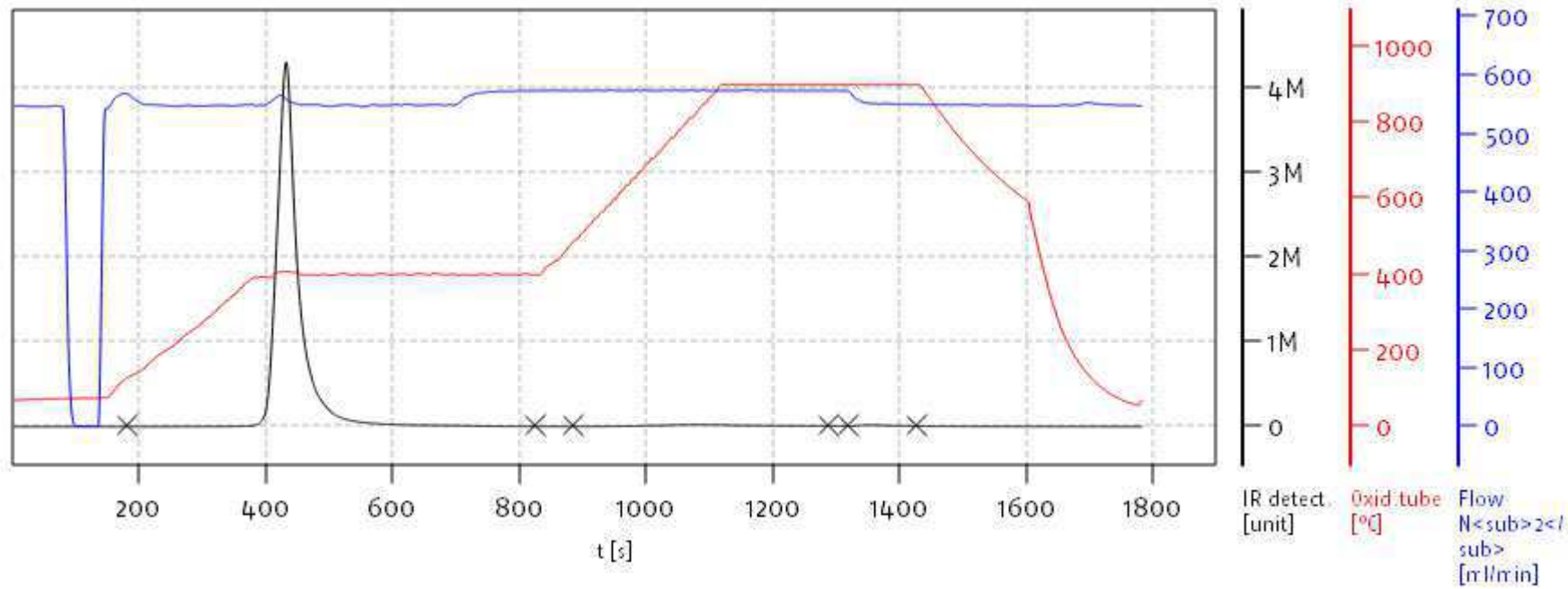
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
16	16	SLE0228-CCV1	21.90		CARBON	5/19/2023 7:07 PM	bl	45.300	6 345 583	46.348	0.142	48 418	173 542	45.158	1.048	0.9871	1.0000



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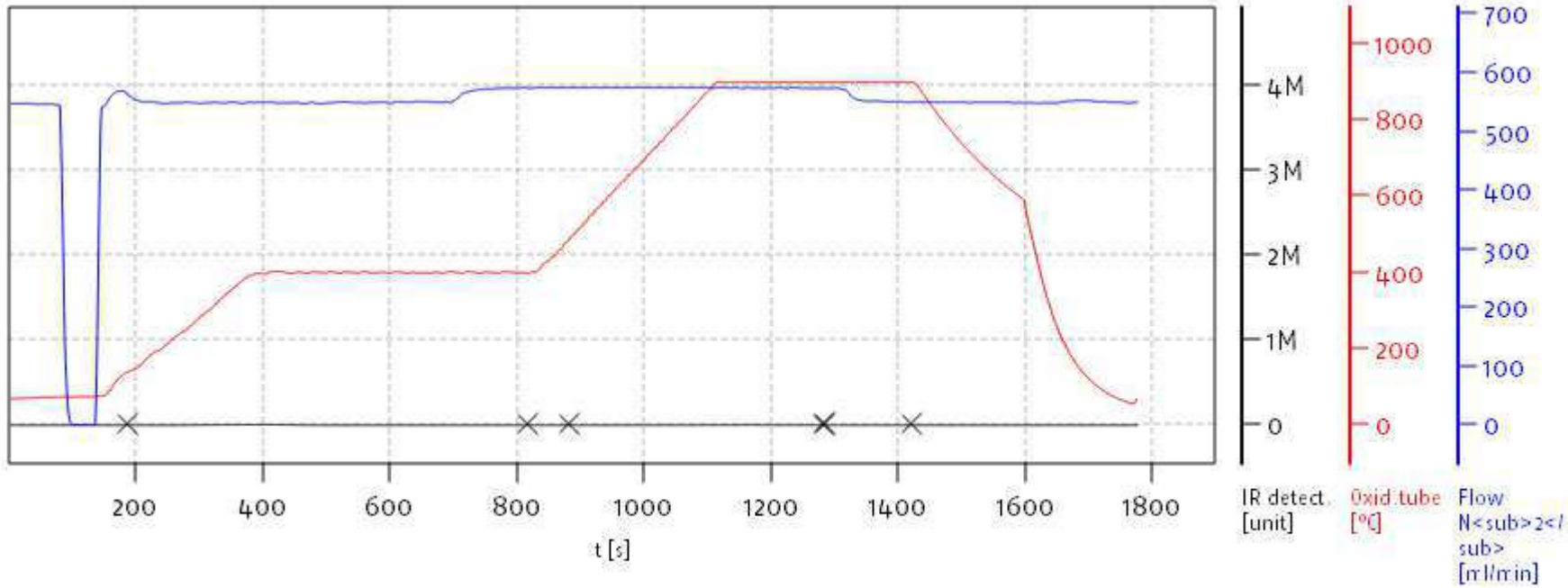
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
17	17	SLE0228-CCB1	505.60		CARBON	5/19/2023 7:37 PM	bl,C3u,C2u	0.000	29 075	0.000	0.000	2 323	14 137	0.000	0.000	0.9871	1.0000



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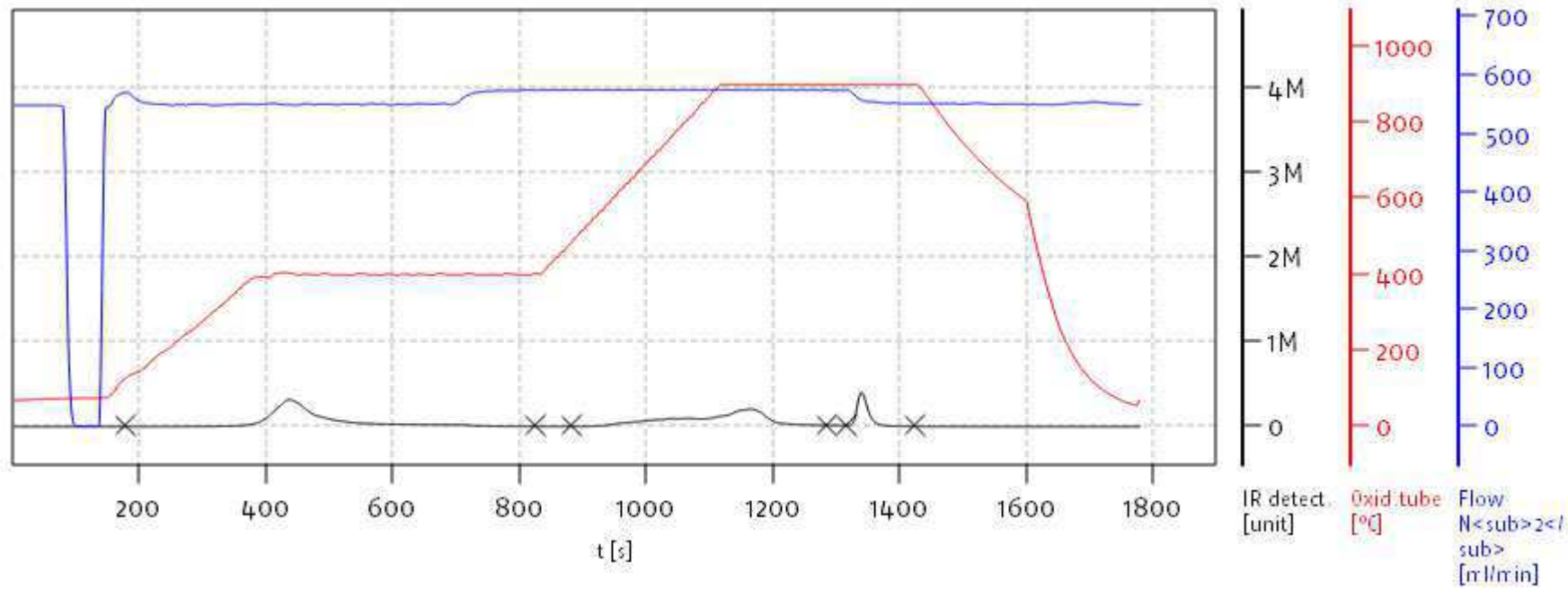
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
18	18	BLE0414-DUP2	516.40		CARBON	5/19/2023 8:07 PM	bl	0.425	1 135 366	0.755	0.089	319 080	1 105 509	0.335	0.331	0.9871	1.0000



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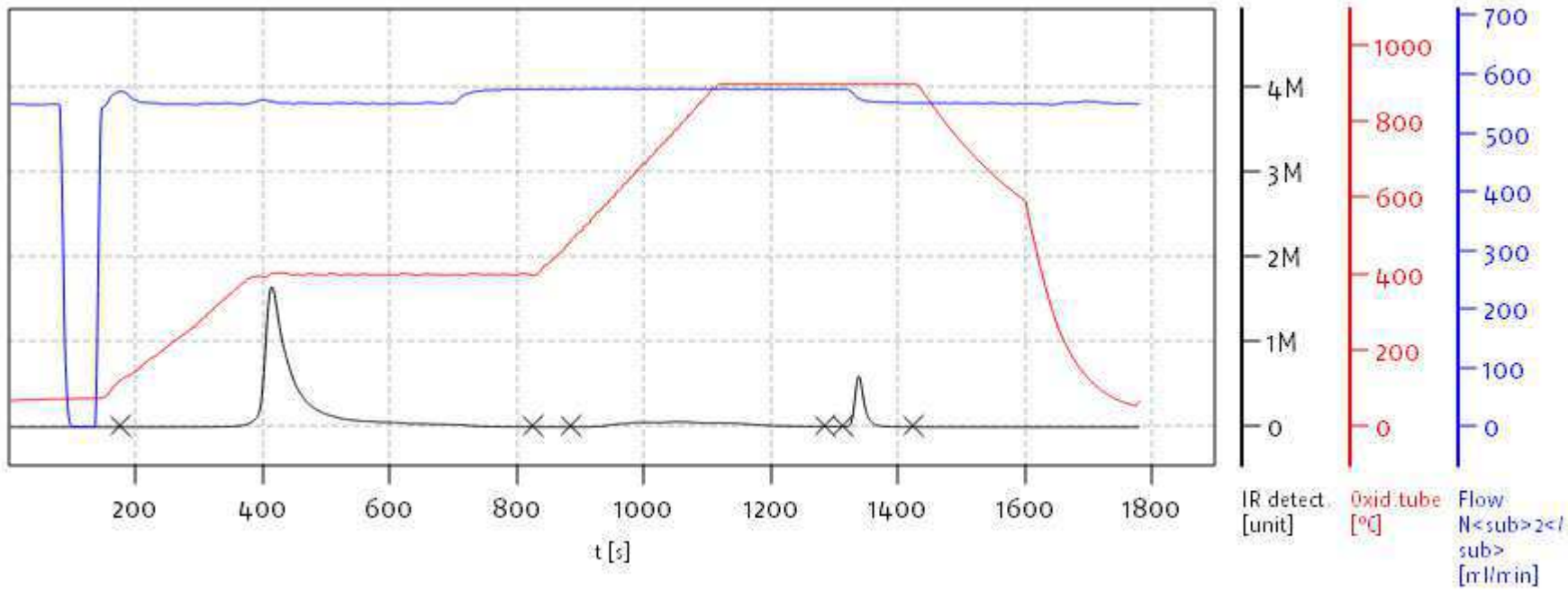
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
19	19	BLE0414-MS1	549.70	0.0079	CARBON	5/19/2023 8:37 PM	bl	1.013	3 215 164	1.145	0.105	393 657	486 288	0.908	0.132	0.9871	1.0000



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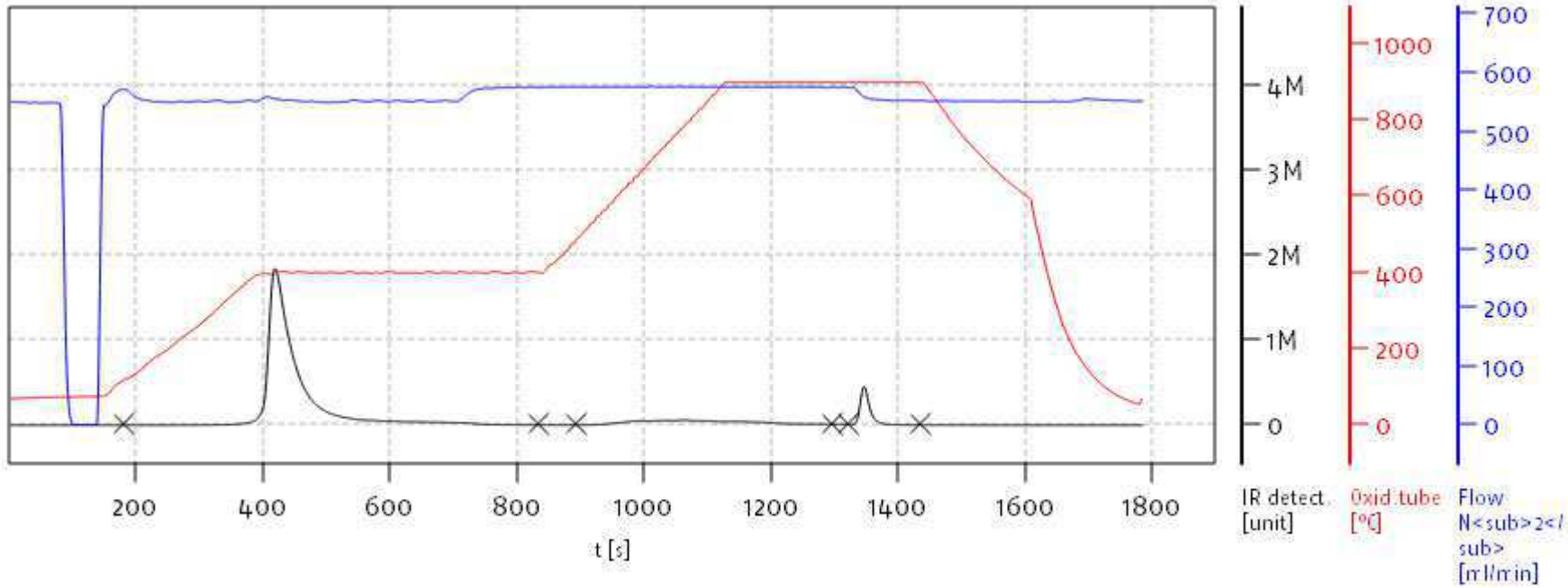
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
20	20	BLE0414-MSD1	520.30	0.0087	CARBON	5/19/2023 9:07 PM	bl	1.127	3 496 016	1.268	0.084	304 106	489 308	1.043	0.140	0.9871	1.0000



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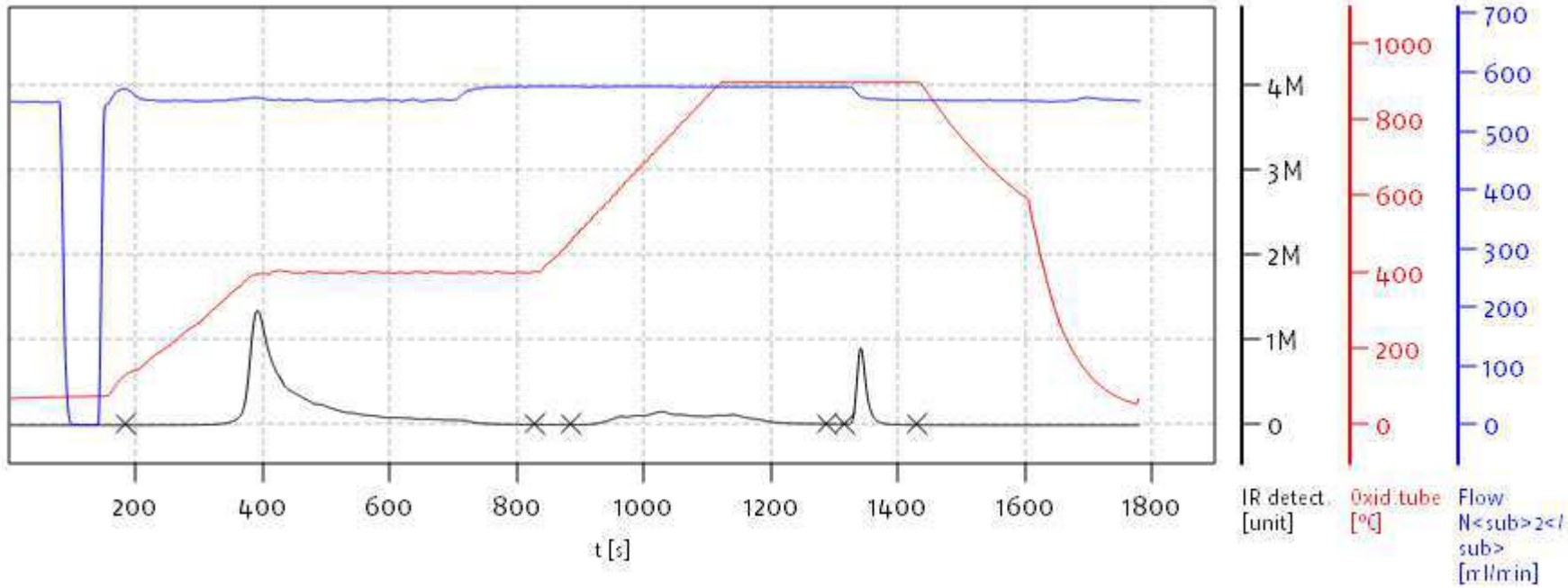
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 051923 CDE from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
21	21	23C0774-01	521.60		CARBON	5/19/2023 9:37 PM	bl	1.310	3 804 413	1.644	0.177	610 980	1 127 165	1.133	0.334	0.9871	1.0000



Name:

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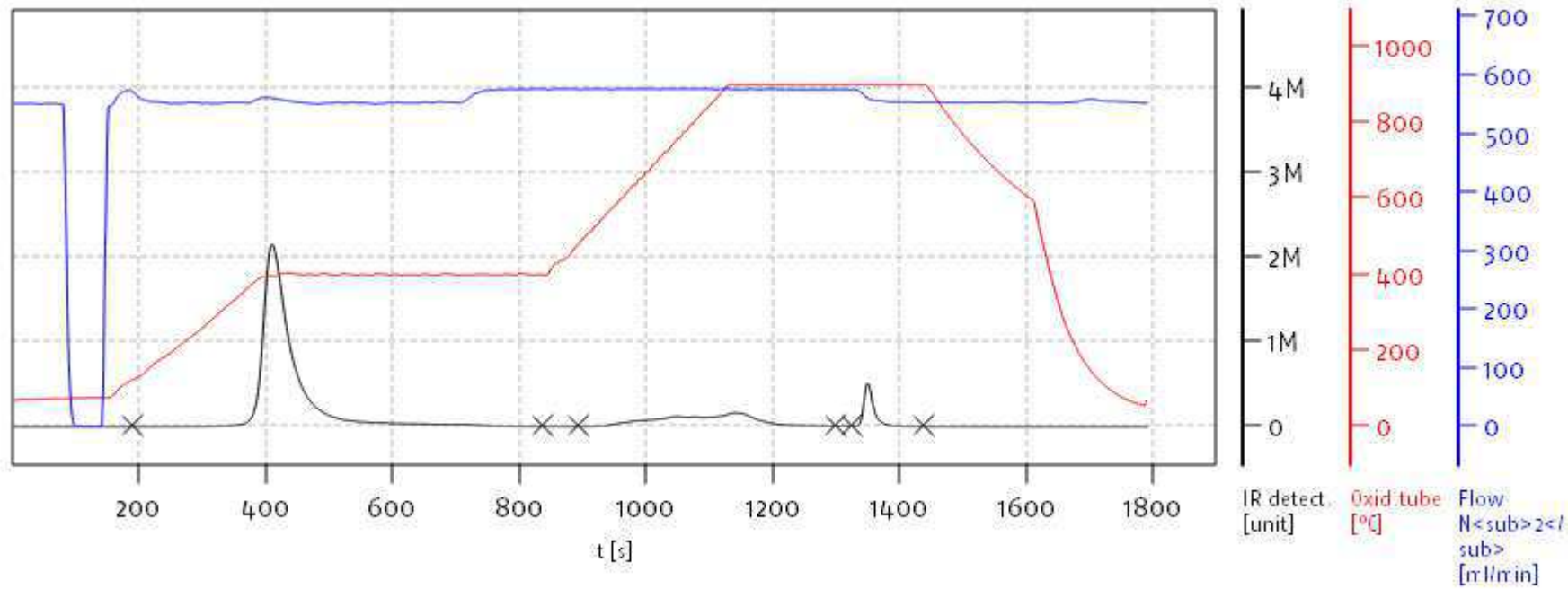
Date: Mon May 22 10:19:17 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
22	22	BLE0414-DUP3	509.80		CARBON	5/19/2023 10:07 PM	bl	1.418	4 325 333	1.720	0.099	346 506	997 196	1.319	0.301	0.9871	1.0000



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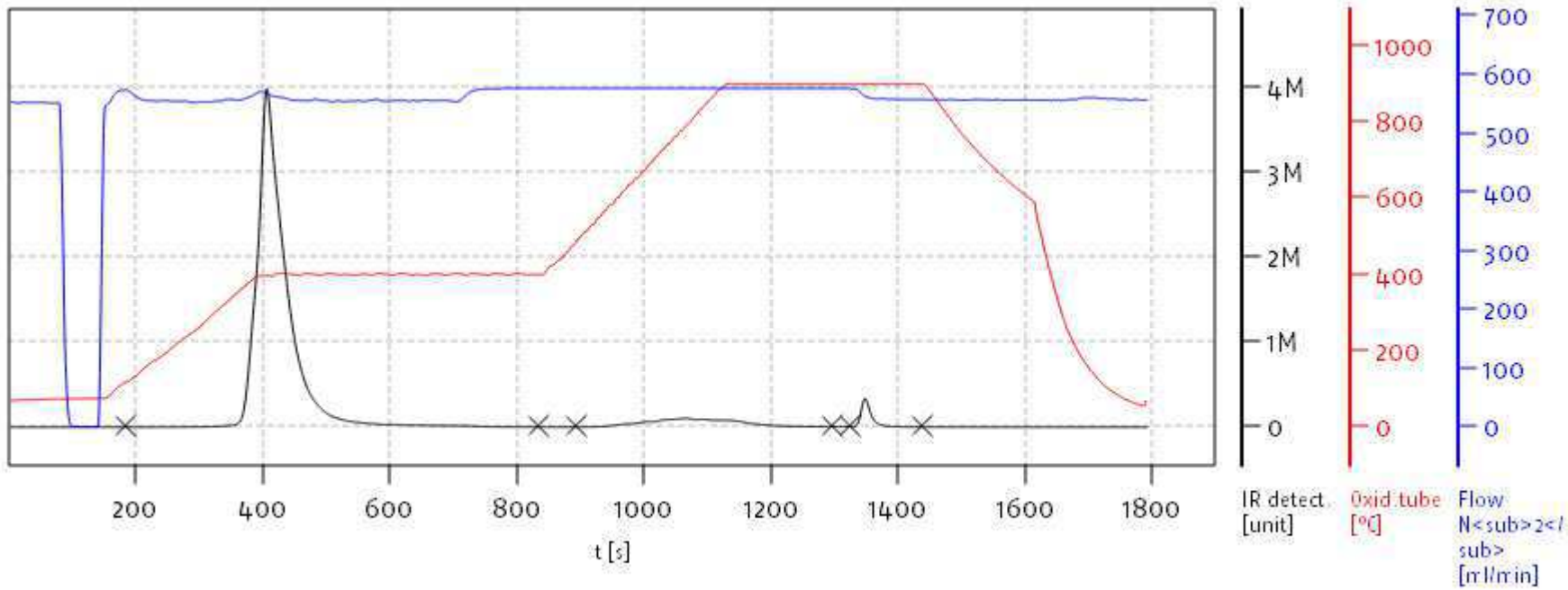
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
23	23	BLE0414-MS2	504.10	0.0086	CARBON	5/19/2023 10:38 PM	bl	2.457	7 731 933	2.655	0.064	233 691	658 903	2.392	0.198	0.9871	1.0000



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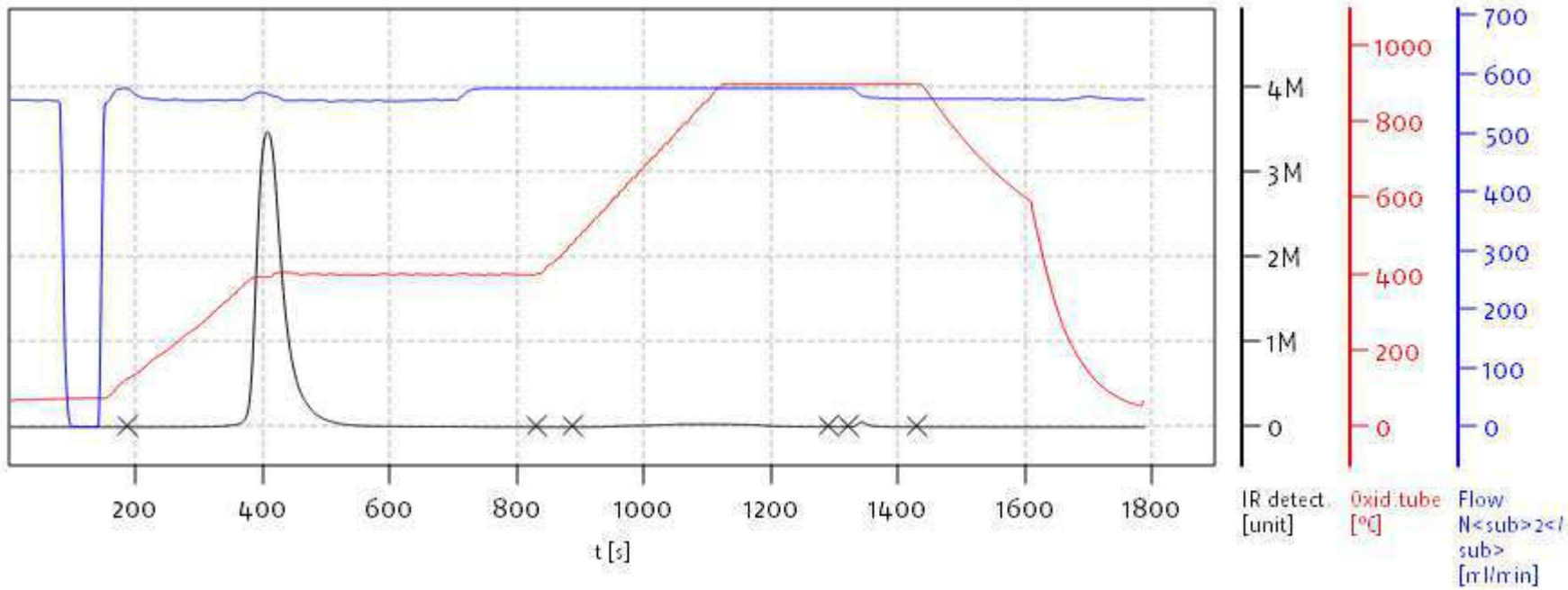
EXCELLENCE IN ELEMENTS

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
24	24	23C0774-02	490.50		CARBON	5/19/2023 11:08 PM	bl	2.021	6 339 841	2.097	0.006	48 072	265 376	2.014	0.076	0.9871	1.0000



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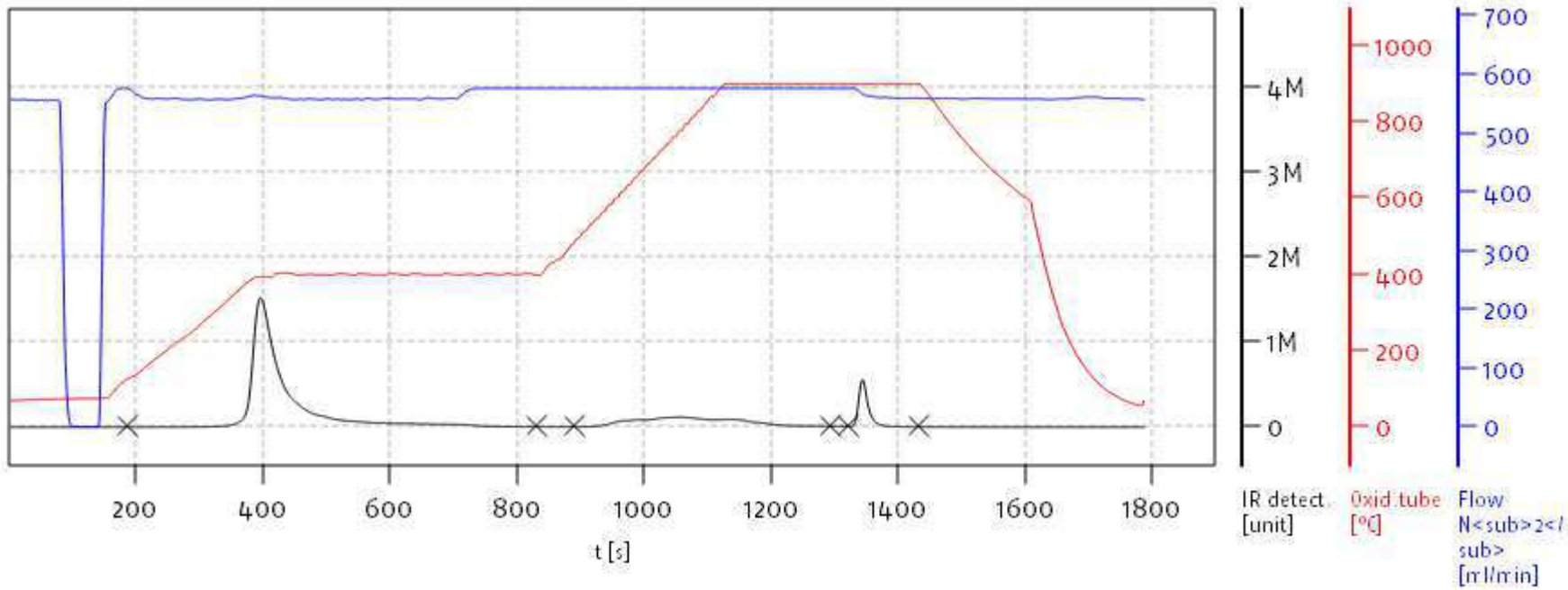
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
25	25	23C0774-03	477.10		CARBON	5/19/2023 11:38 PM	bl	1.164	3 227 786	1.452	0.115	373 429	895 327	1.050	0.288	0.9871	1.0000



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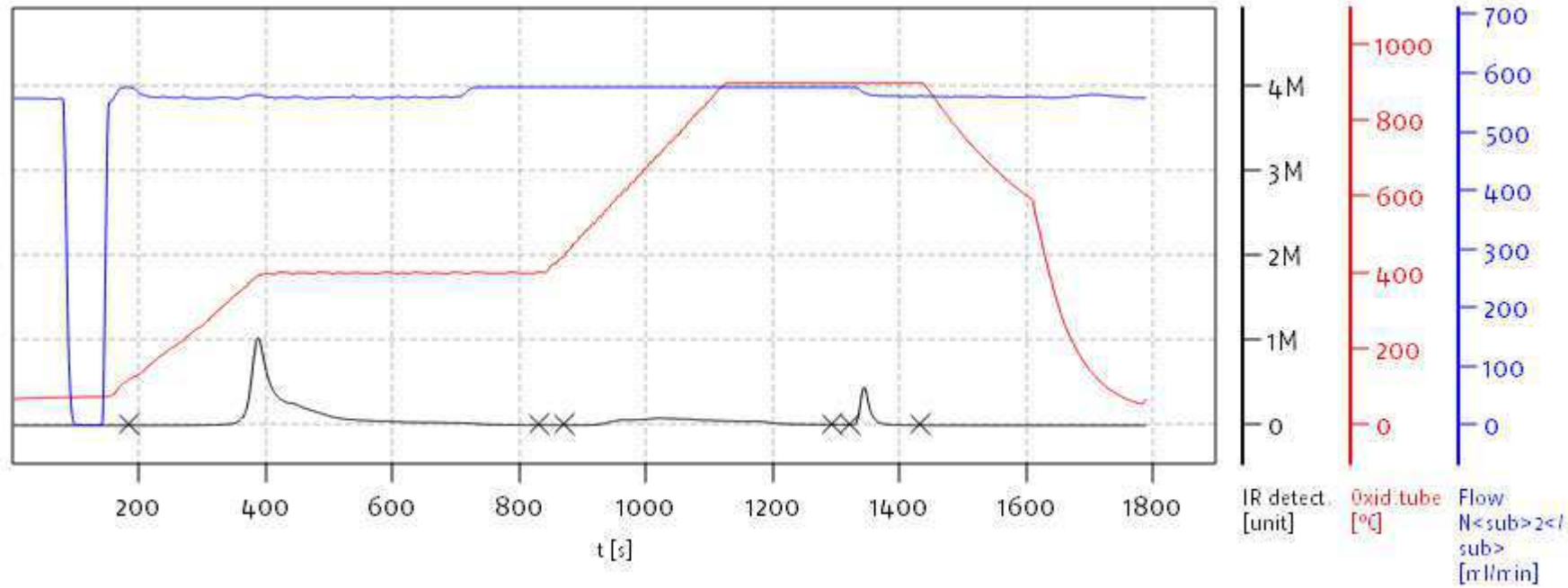
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
26	26	23C0774-04	329.60		CARBON	5/20/2023 12:08 AM	bl	1.222	2 325 170	1.528	0.132	302 149	663 542	1.091	0.305	0.9871	1.0000



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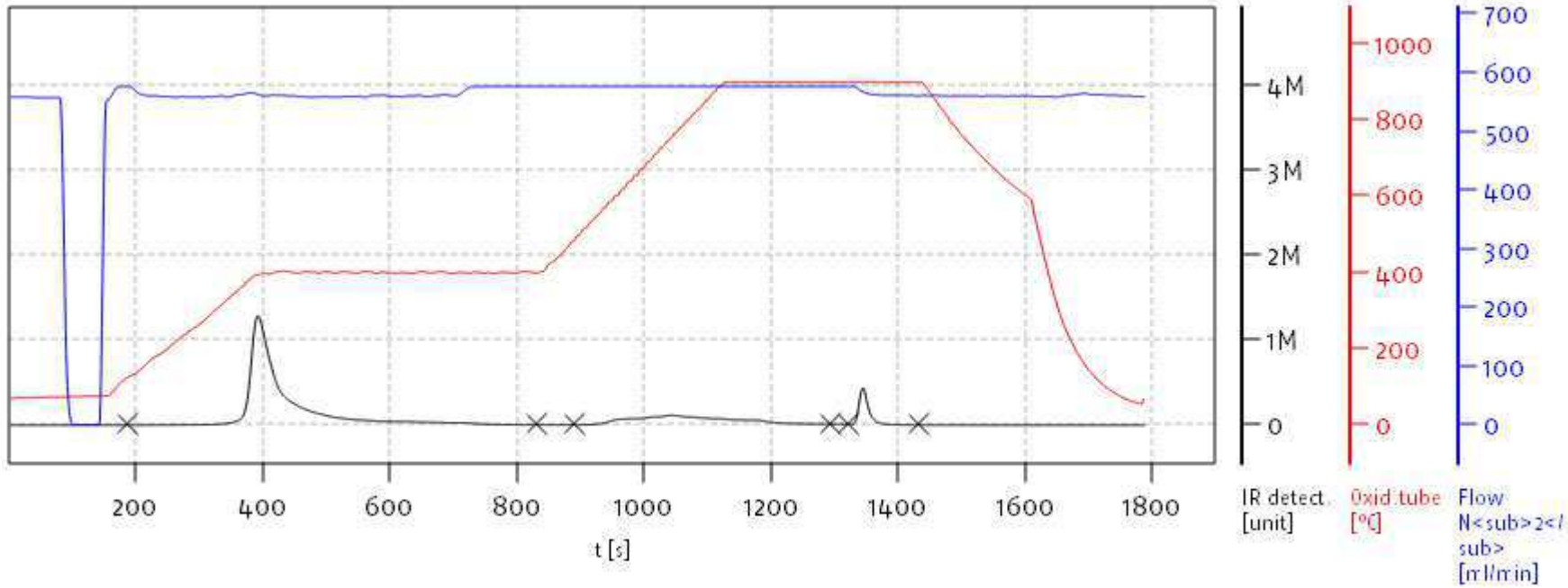
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
27	27	23C0774-05	382.50		CARBON	5/20/2023 12:38 AM	bl	1.232	2 769 364	1.569	0.111	295 985	840 665	1.122	0.337	0.9871	1.0000



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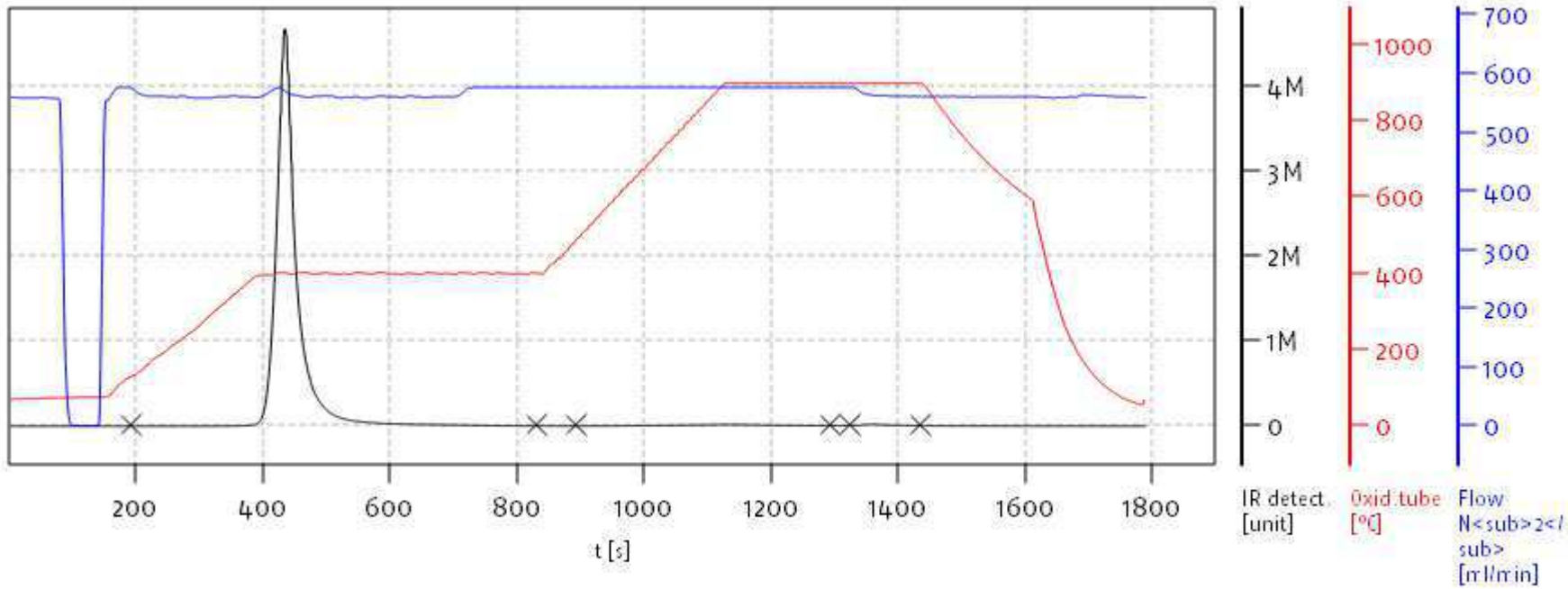
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
28	28	SLE0228-CCV2	22.10		CARBON	5/20/2023 1:09 AM	bl	44.934	6 353 357	45.686	0.129	46 893	133 634	44.805	0.752	0.9871	1.0000



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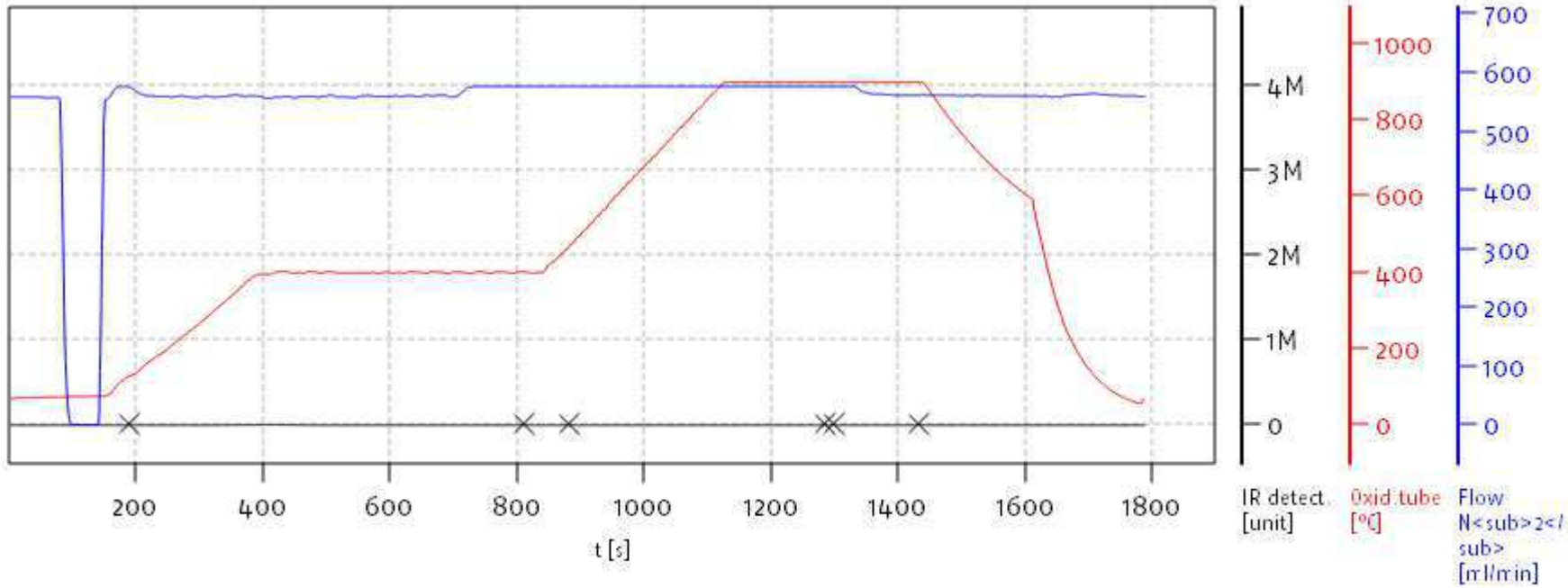
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
29	29	SLE0228-CCB2	504.10		CARBON	5/20/2023 1:39 AM	bl,C1u,C3u,C2u	0.000	15 121	0.000	0.000	1 190	404	0.000	0.000	0.9871	1.0000



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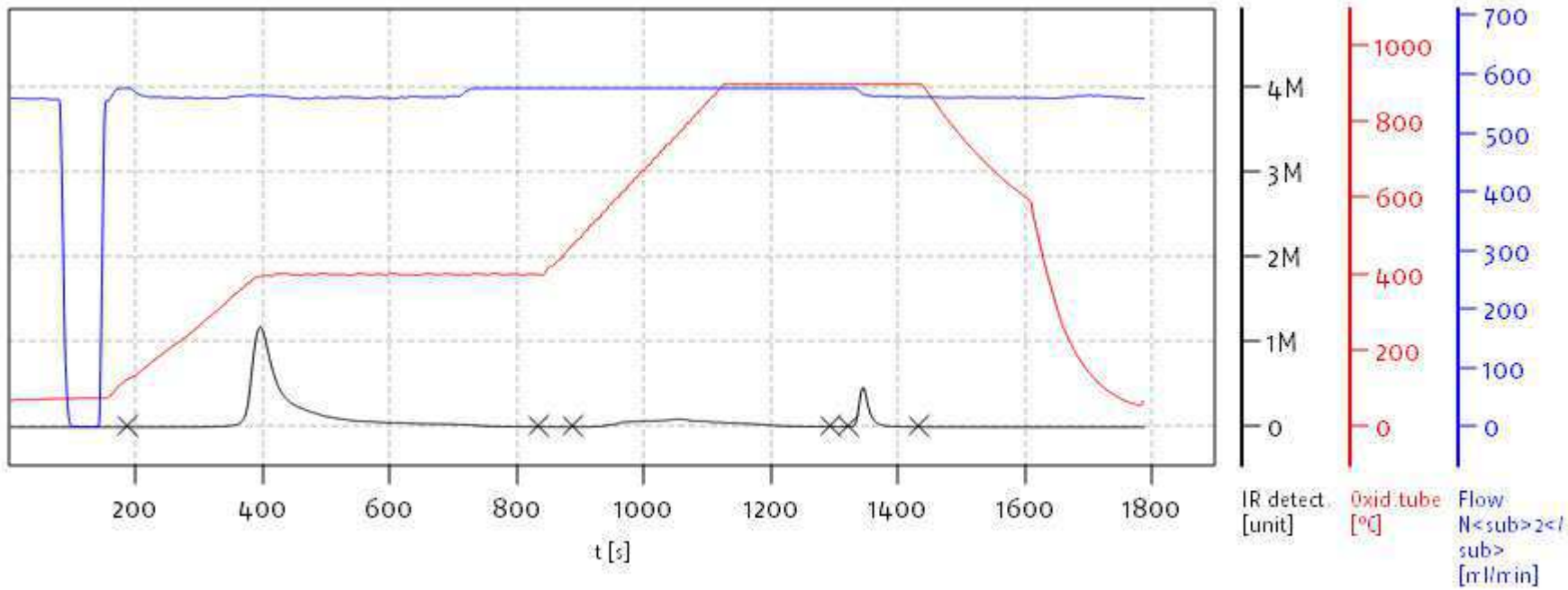
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
30	30	23C0774-06	363.60		CARBON	5/20/2023 2:09 AM	bl	1.310	2 769 177	1.566	0.130	325 870	616 597	1.180	0.256	0.9871	1.0000



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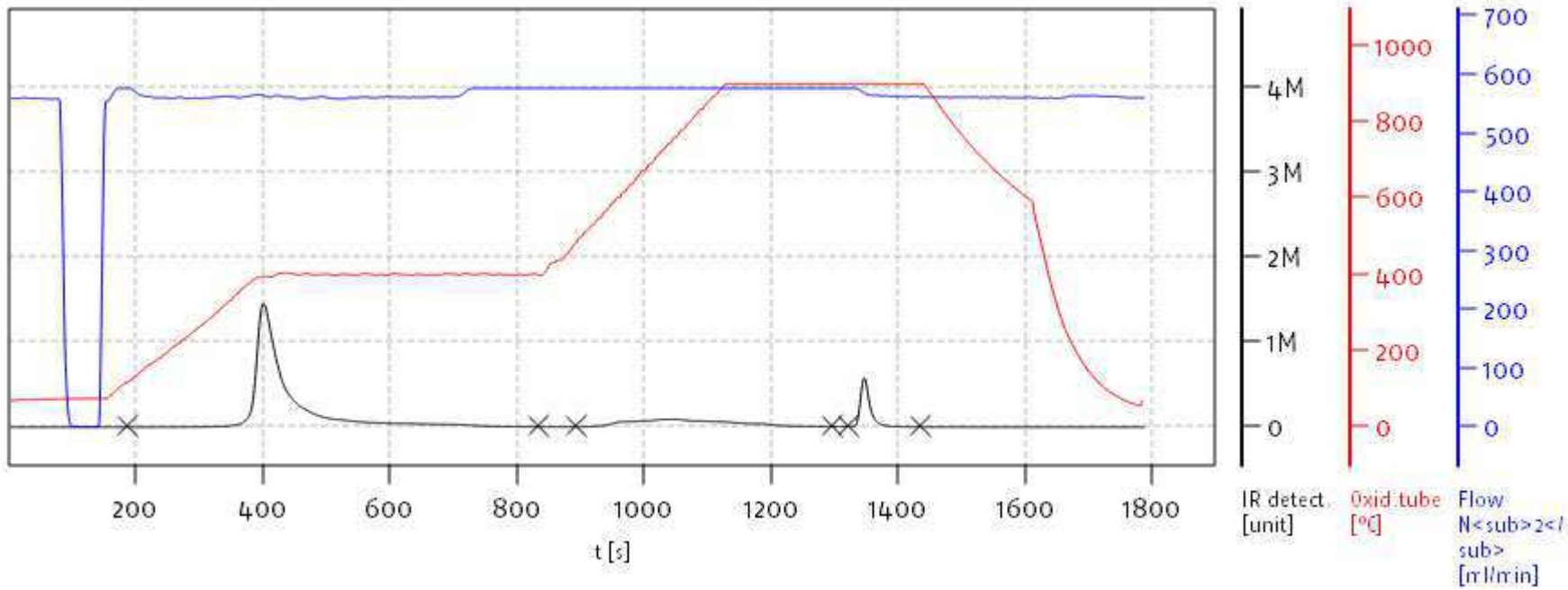
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
31	31	23C0774-07	387.70		CARBON	5/20/2023 2:39 AM	bl	1.314	2 926 905	1.580	0.143	379 147	679 207	1.170	0.266	0.9871	1.0000



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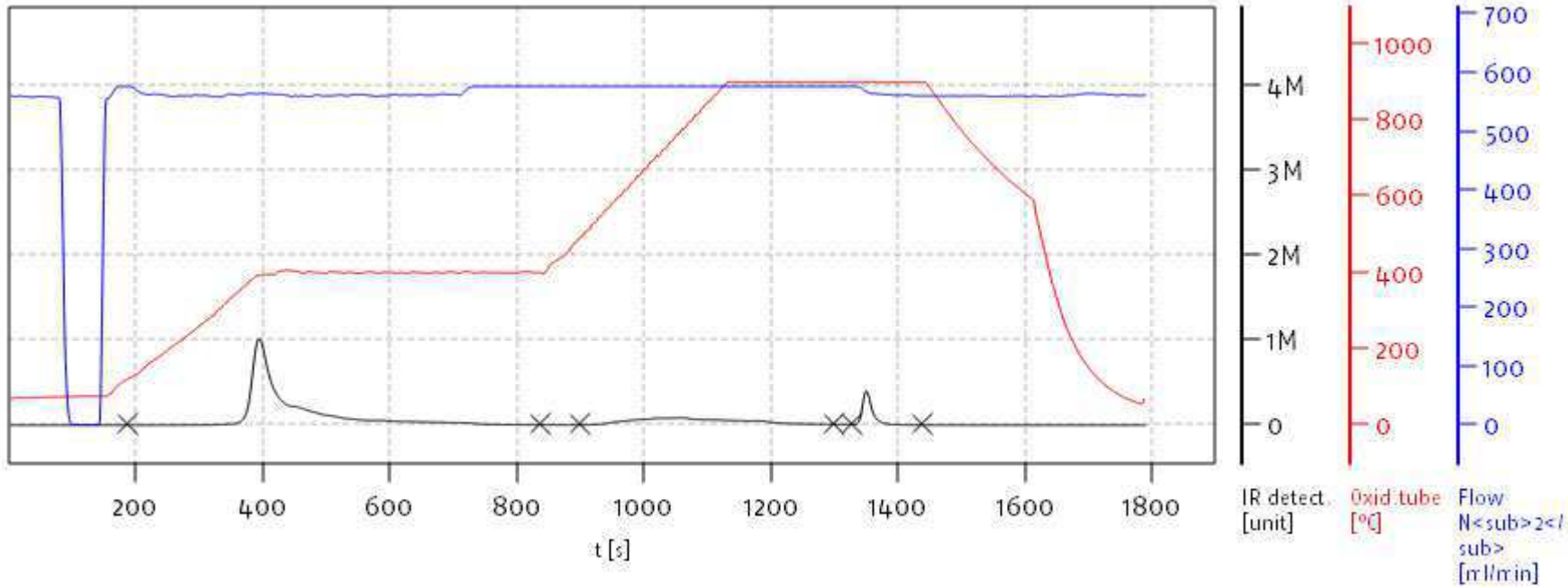
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
32	32	23C0774-08	314.70		CARBON	5/20/2023 3:09 AM	bl	1.244	2 278 697	1.568	0.125	276 206	672 229	1.119	0.324	0.9871	1.0000



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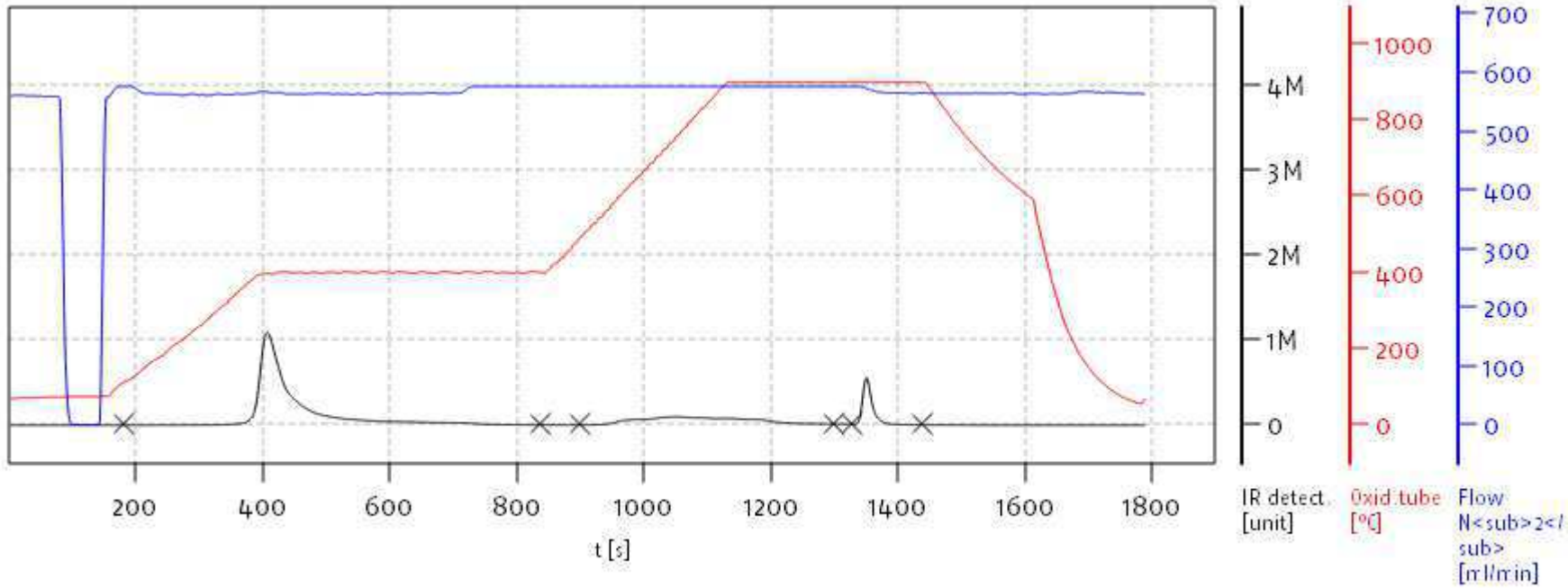
Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
33	33	23C0774-09	350.00		CARBON	5/20/2023 3:40 AM	bl	1.210	2 374 588	1.558	0.161	383 562	796 945	1.049	0.348	0.9871	1.0000



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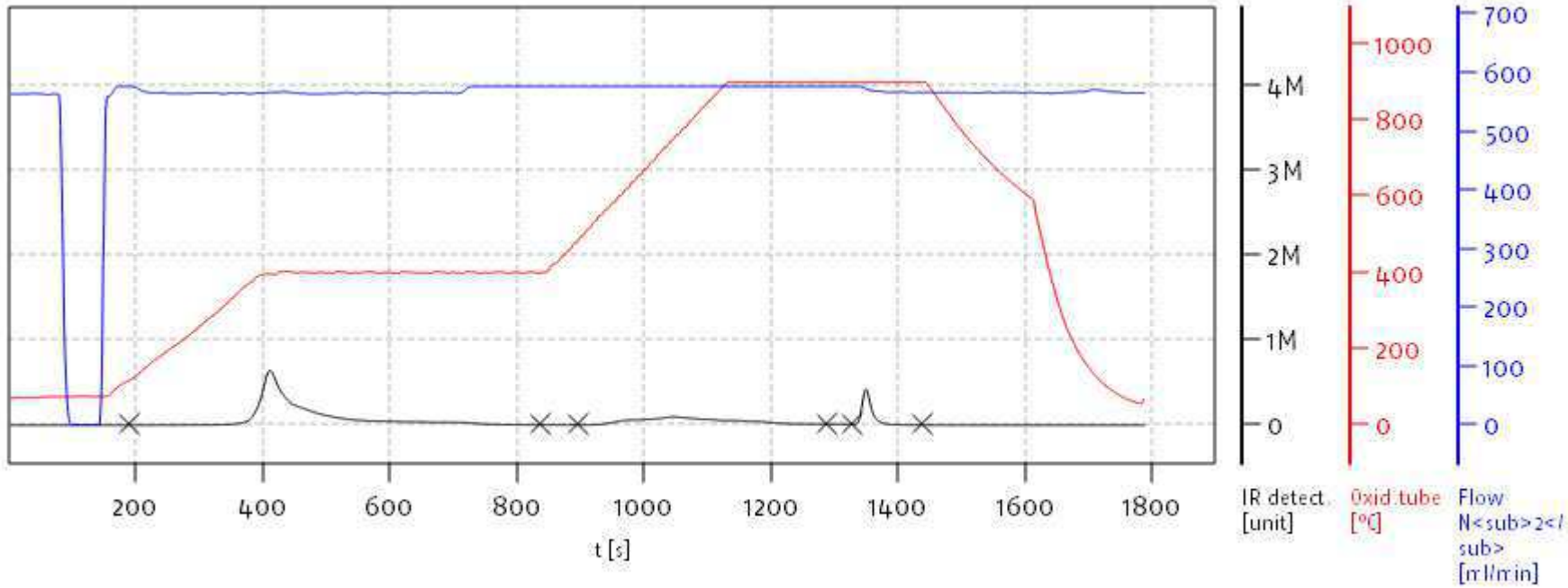
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
34	34	23C0774-10	342.20		CARBON	5/20/2023 4:10 AM	bl	0.921	1 783 455	1.217	0.118	284 350	666 411	0.803	0.296	0.9871	1.0000



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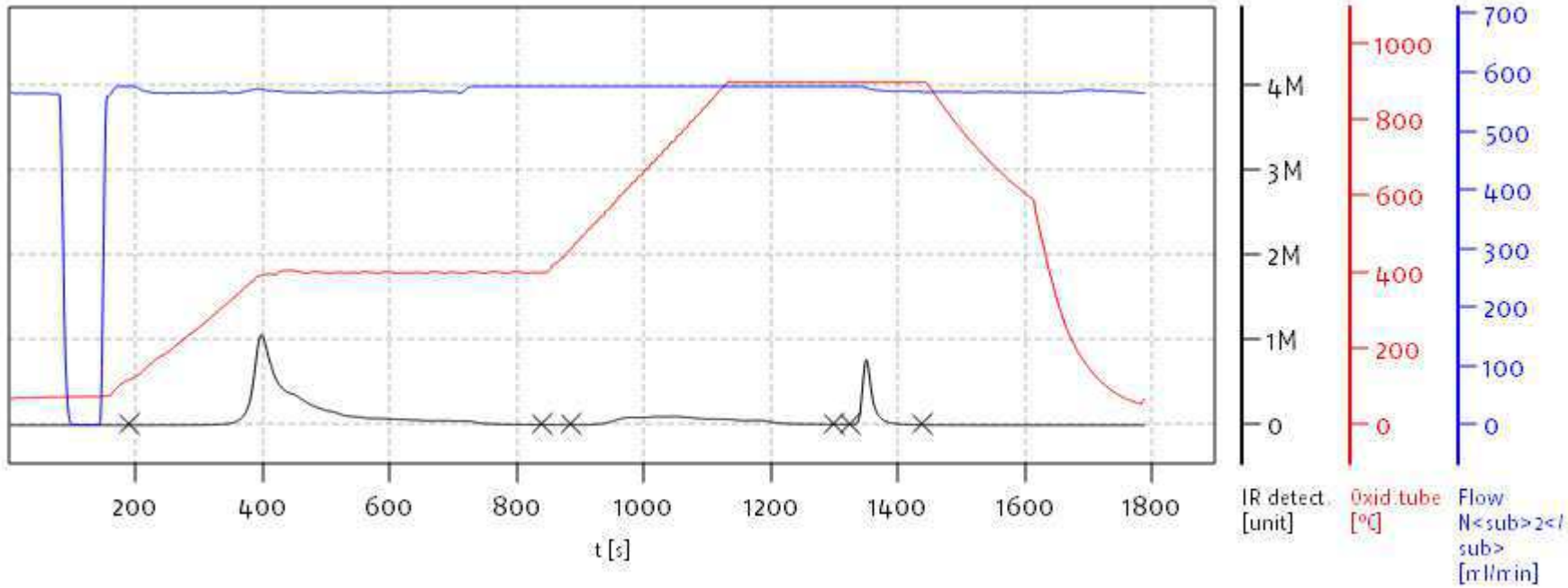
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
35	35	23C0774-11	471.20		CARBON	5/20/2023 4:40 AM	bl	1.147	2 962 595	1.412	0.172	540 139	817 720	0.975	0.266	0.9871	1.0000



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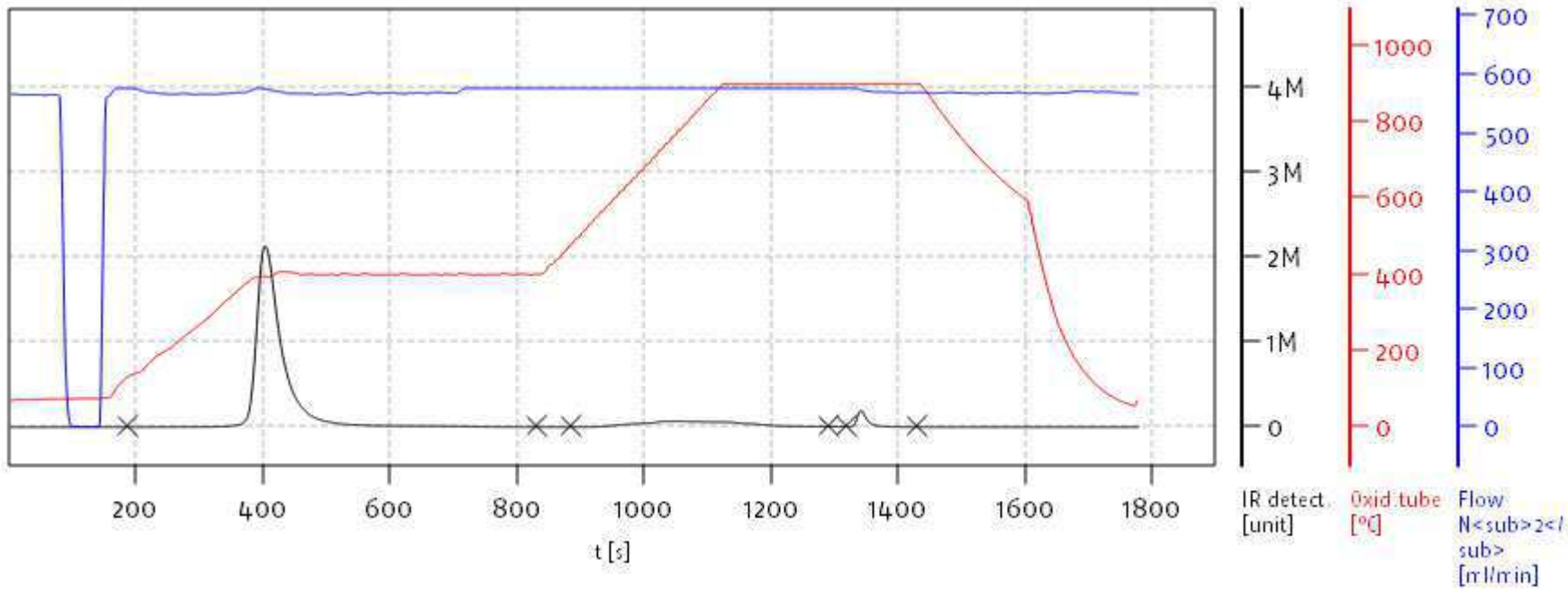
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
36	36	23C0774-12	452.90		CARBON	5/20/2023 5:10 AM	bl	1.318	3 730 962	1.486	0.038	136 768	510 236	1.280	0.169	0.9871	1.0000



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Balance: BAL3
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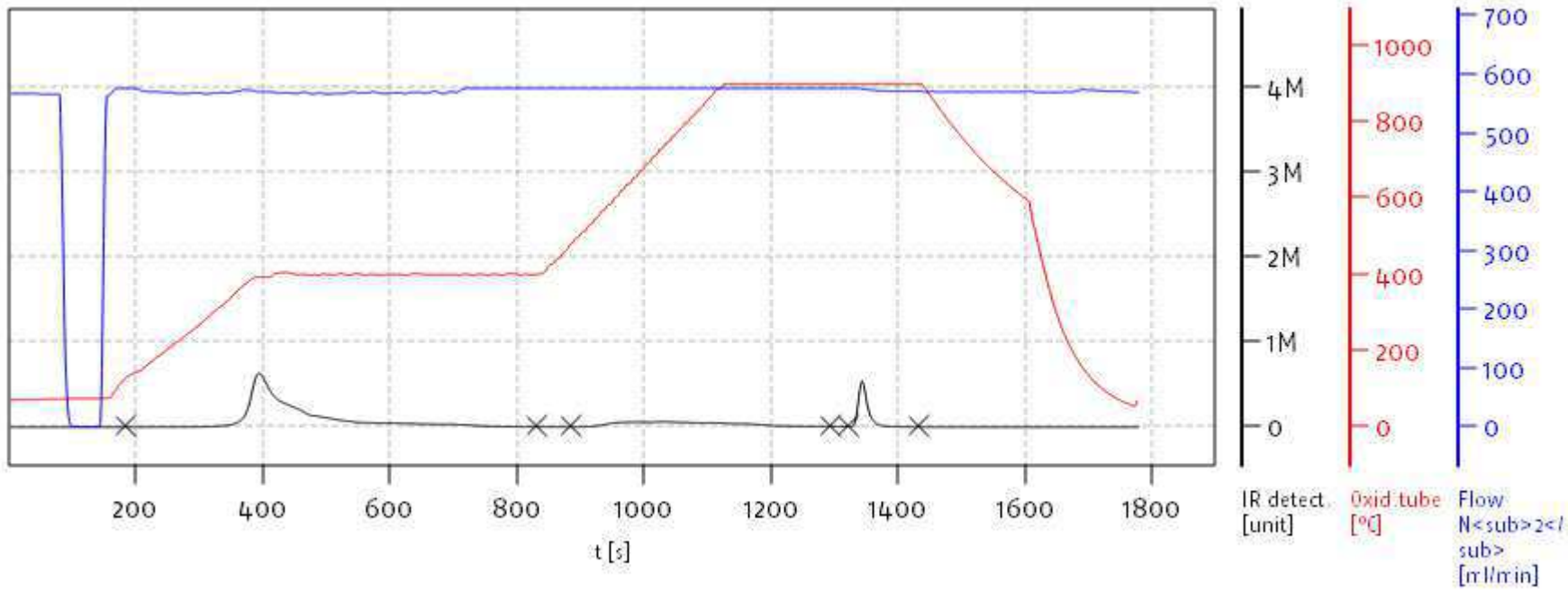
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
37	37	23C0774-13	331.20		CARBON	5/20/2023 5:40 AM	bl	1.062	1 947 746	1.303	0.155	353 103	530 683	0.907	0.240	0.9871	1.0000



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Balance: BAL3
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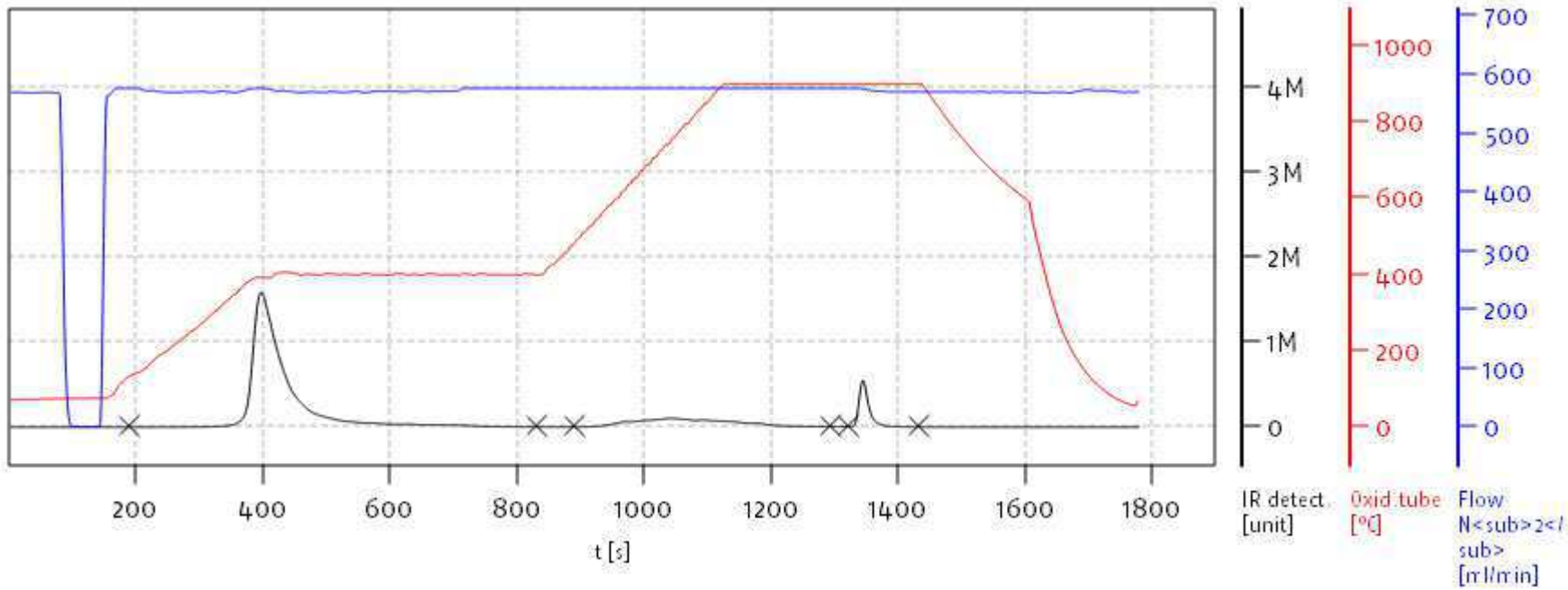
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
38	38	23C0774-14	468.50		CARBON	5/20/2023 6:10 AM	bl	1.287	3 532 112	1.519	0.117	373 470	714 402	1.171	0.232	0.9871	1.0000



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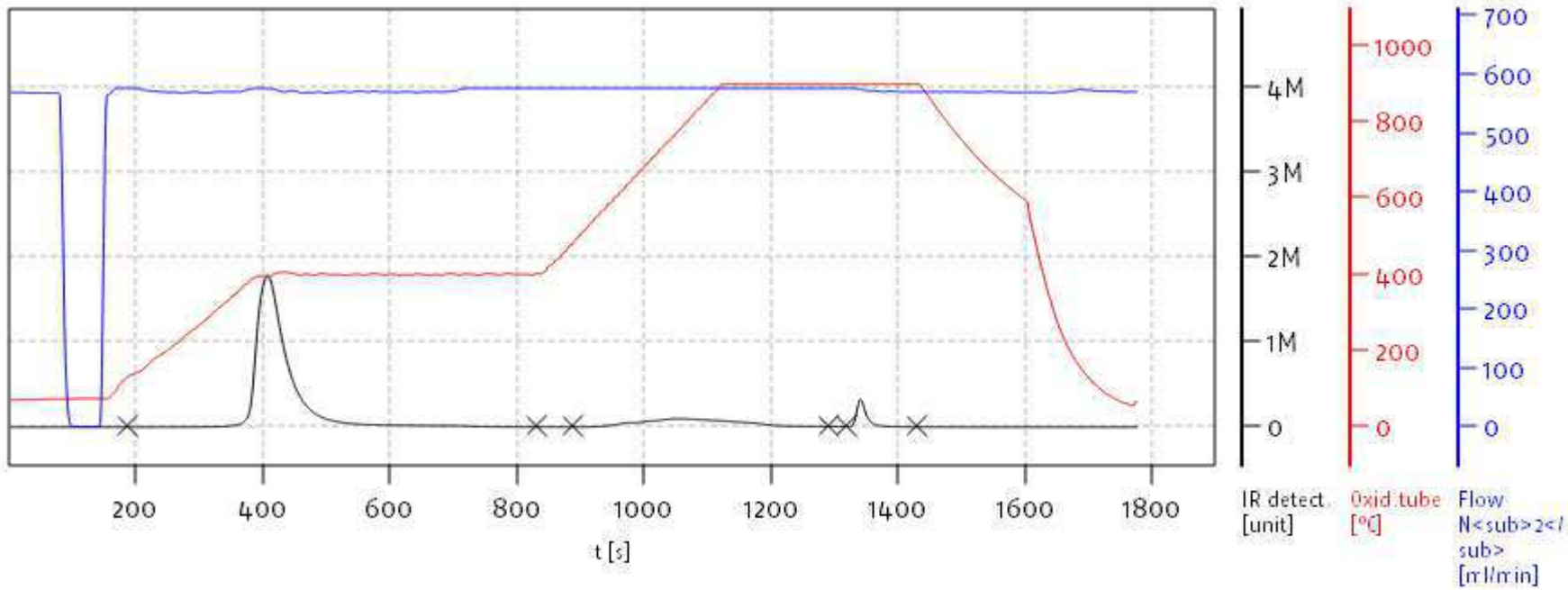
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
39	39	23C0774-15	469.30		CARBON	5/20/2023 6:40 AM	bl	1.322	3 794 278	1.543	0.066	223 394	682 996	1.256	0.221	0.9871	1.0000



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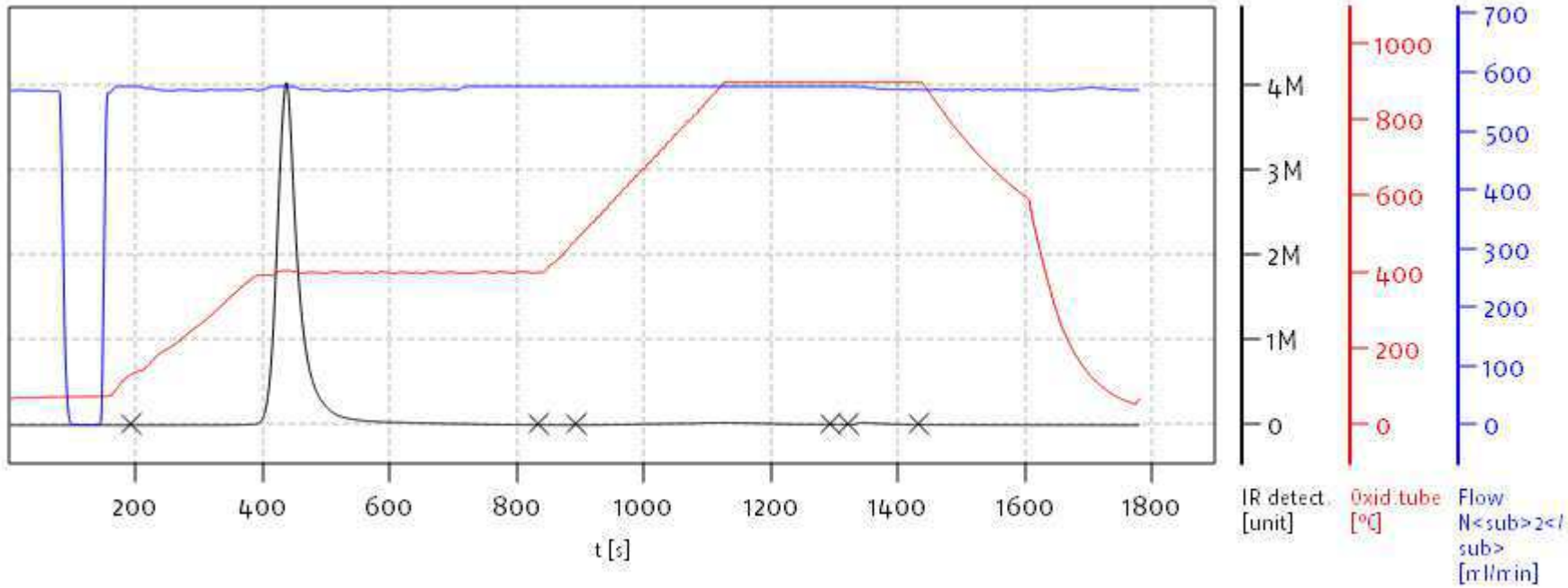
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
40	40	SLE0228-CCV3	22.20		CARBON	5/20/2023 7:10 AM	bl	43.429	6 156 276	44.800	0.216	59 032	220 829	43.213	1.372	0.9871	1.0000



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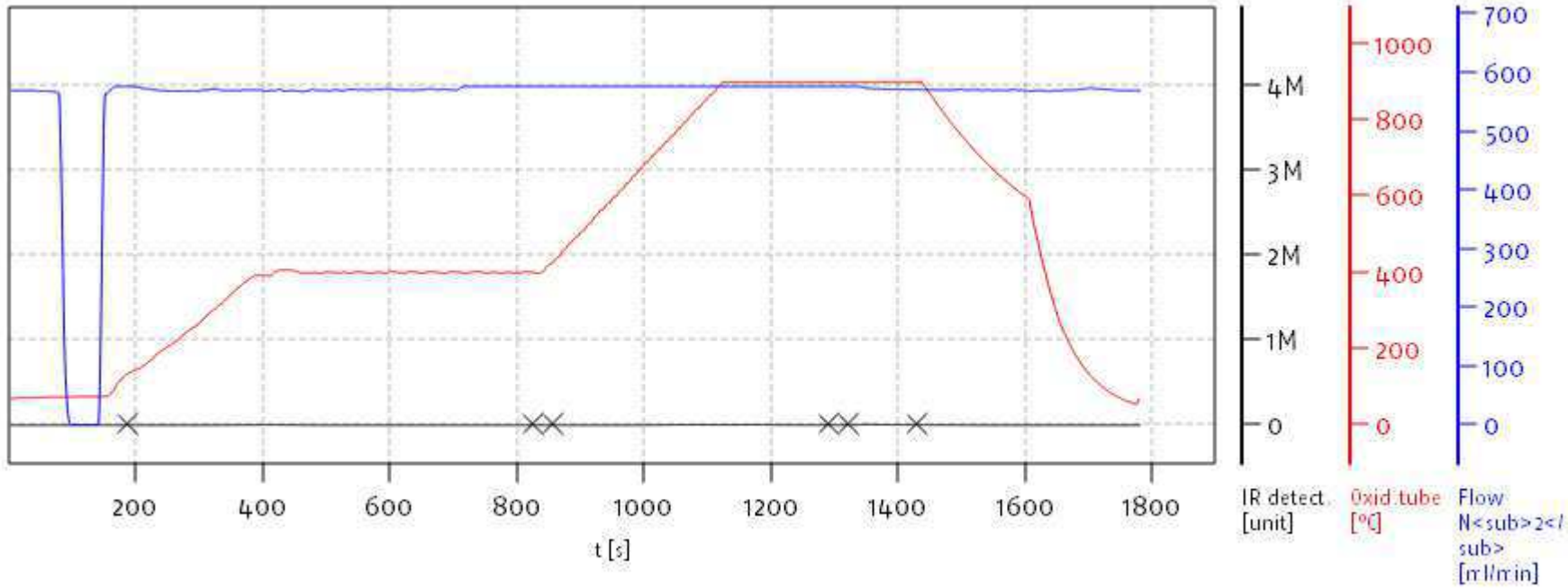
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
41	41	SLE0228-CCB3	502.60		CARBON	5/20/2023 7:40 AM	bl,C1u	0.000	16 046	0.004	0.000	22 070	41 023	0.000	0.004	0.9871	1.0000



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Date: Mon May 22 10:19:17 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

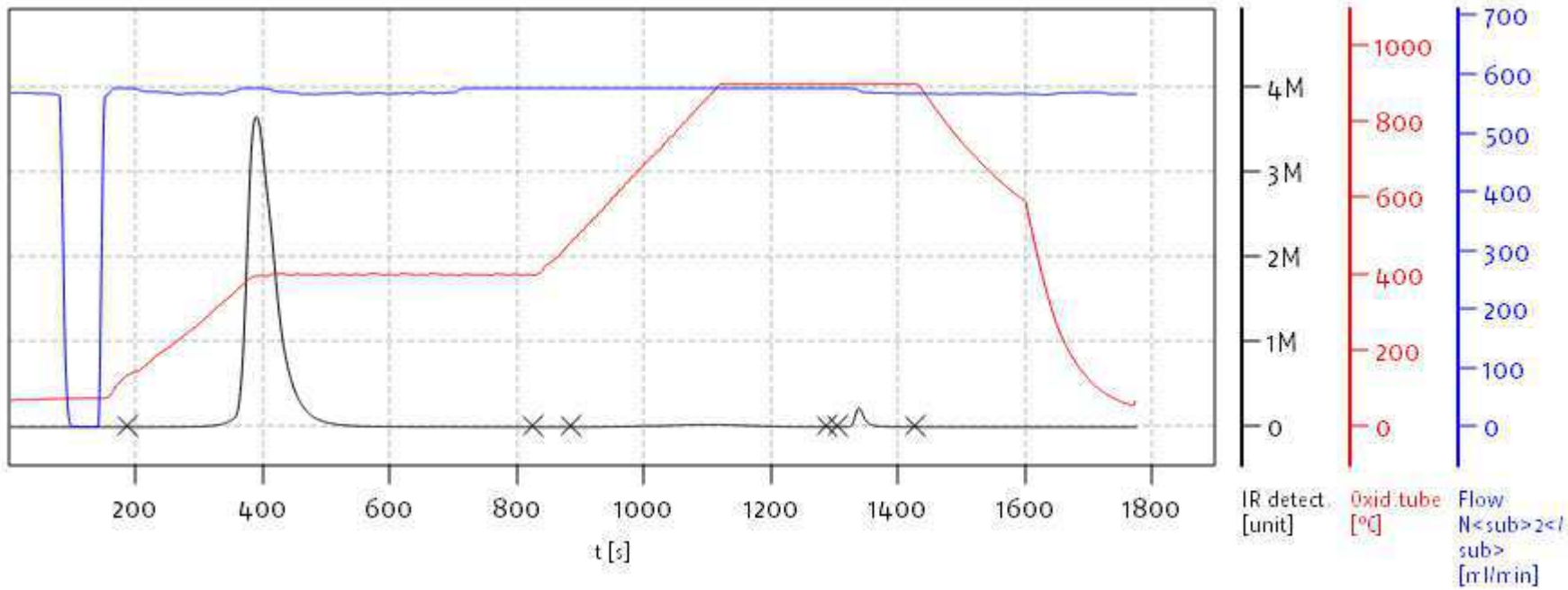
elementar
EXCELLENCE IN ELEMENTS

Document: 051923 CDE from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
42	42	23D0303-01	523.00		CARBON	5/20/2023 8:10 AM	bl	2.133	7 030 918	2.180	0.037	152 020	183 966	2.096	0.047	0.9871	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

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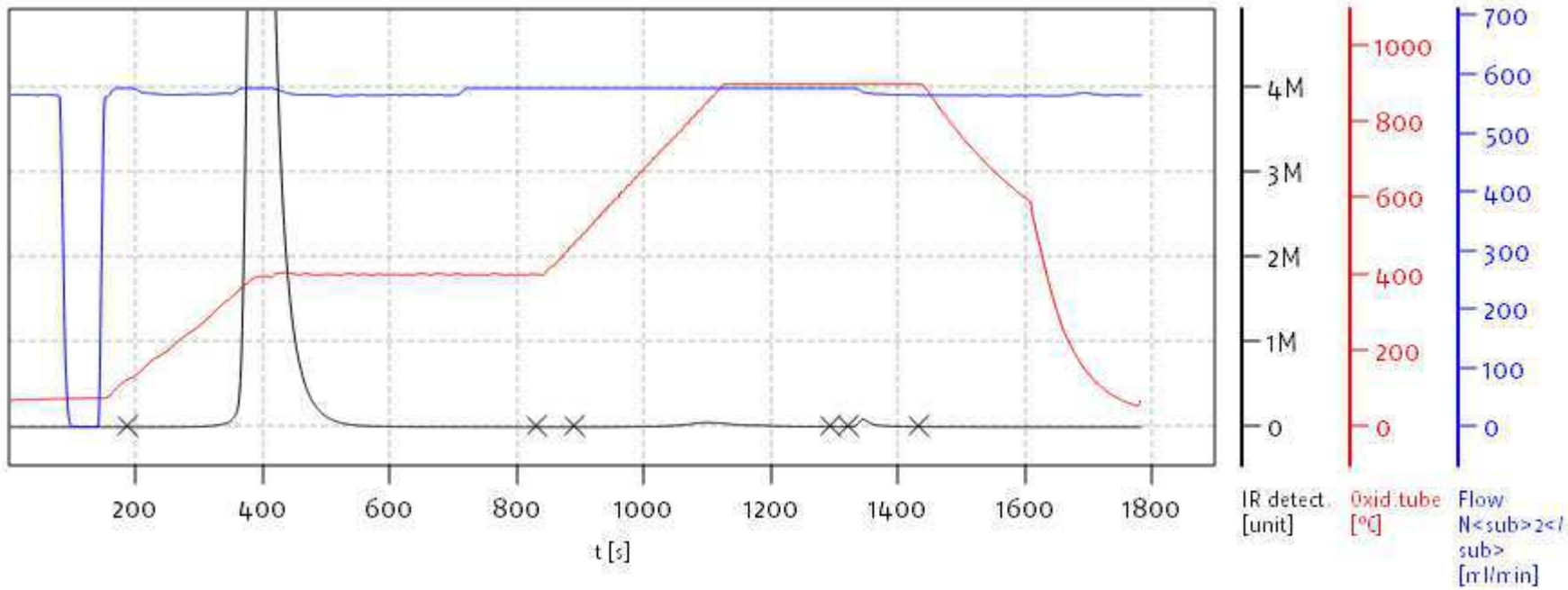
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
43	43	23D0303-02	566.40		CARBON	5/20/2023 8:40 AM	bl,C1o	4.857	17 533 240	4.916	0.018	93 939	239 150	4.839	0.059	0.9871	1.0000



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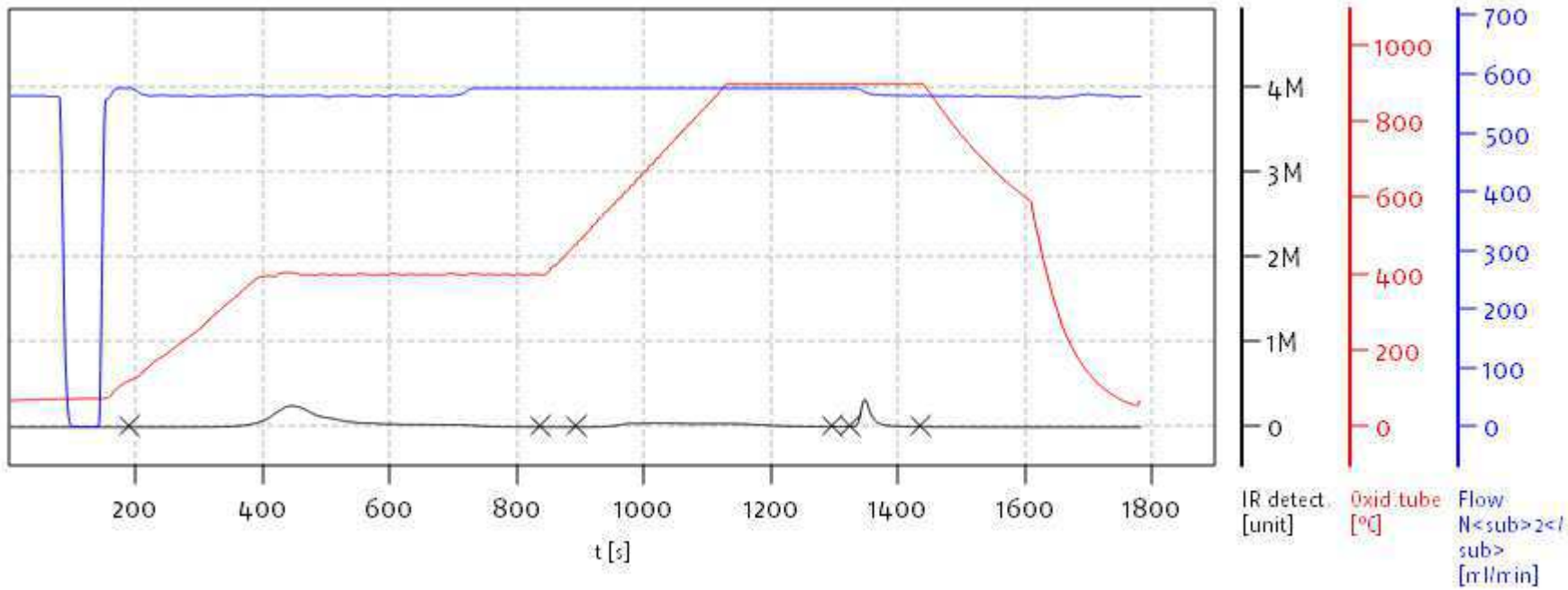
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
44	44	23D0303-03	747.30		CARBON	5/20/2023 9:10 AM	bl	0.276	1 125 843	0.354	0.046	247 019	395 992	0.230	0.078	0.9871	1.0000



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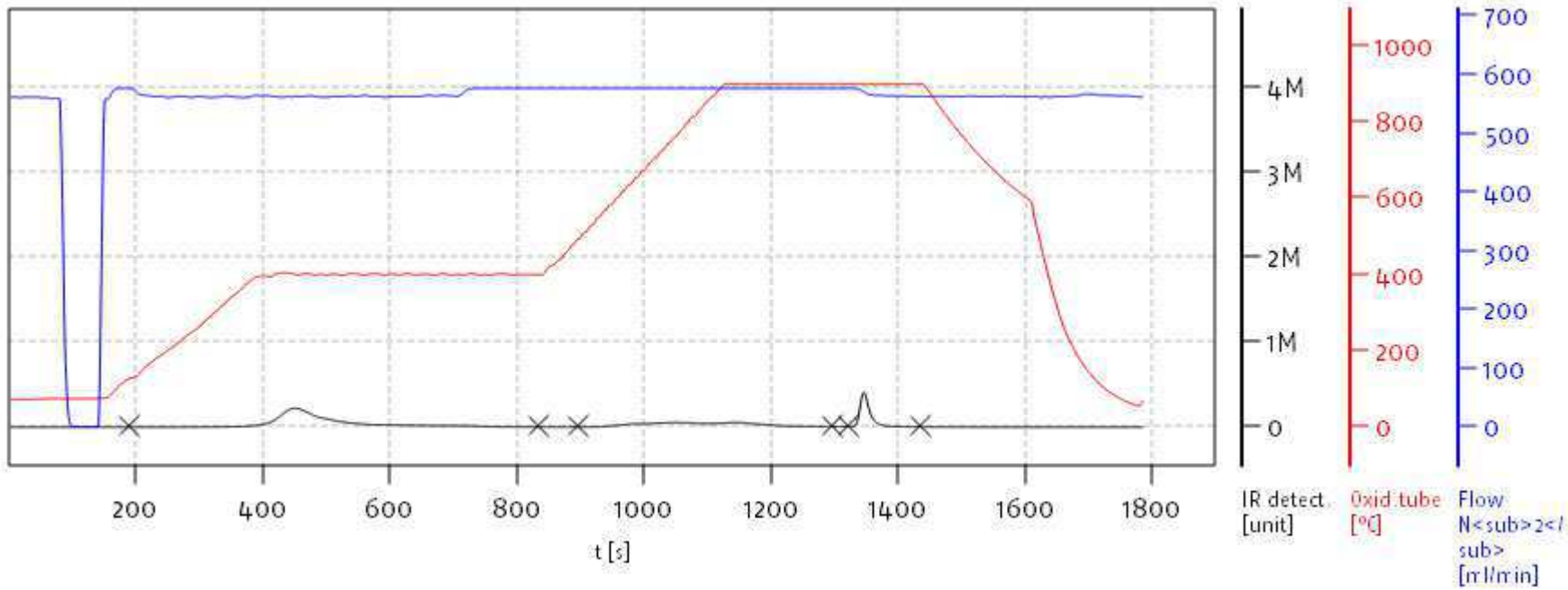
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
45	45	23D0571-02	700.40		CARBON	5/20/2023 9:41 AM	bl	0.240	843 077	0.335	0.058	285 935	446 409	0.182	0.095	0.9871	1.0000



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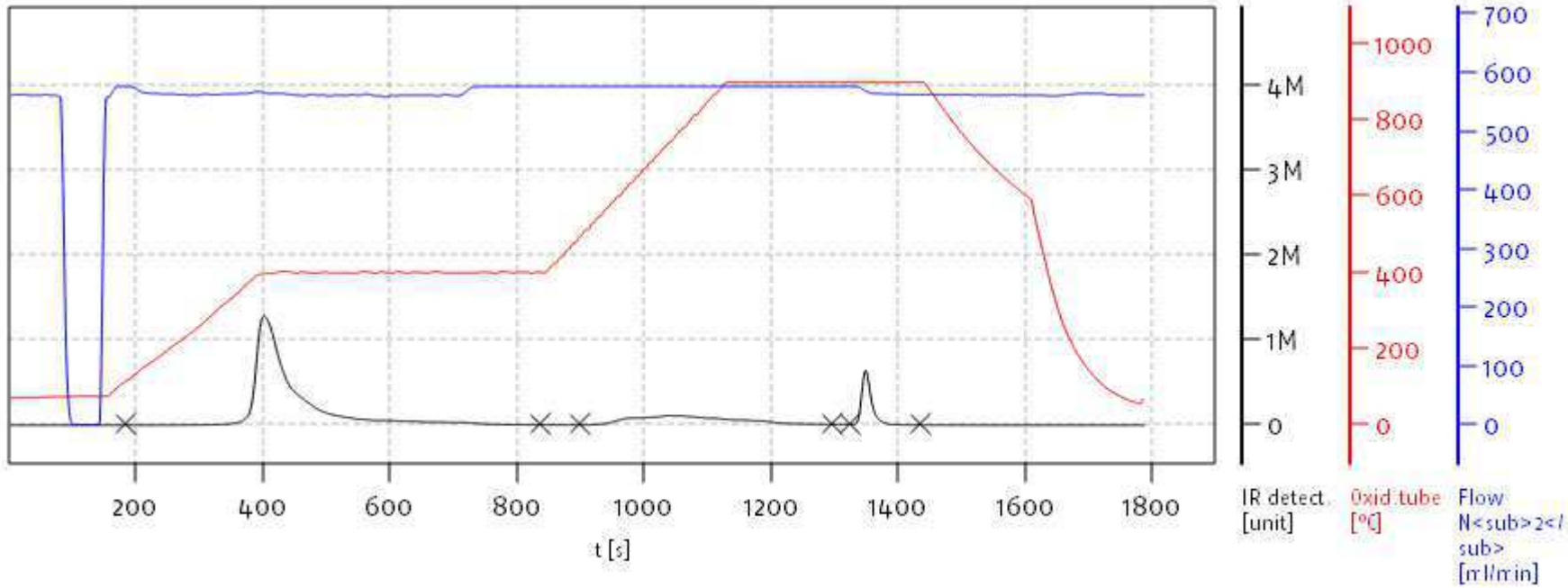
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
46	46	23C0752-01	463.40		CARBON	5/20/2023 10:11 AM	bl	1.210	3 195 012	1.484	0.140	438 430	829 828	1.070	0.274	0.9871	1.0000



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Balance: BAL3
Analyst: CDE

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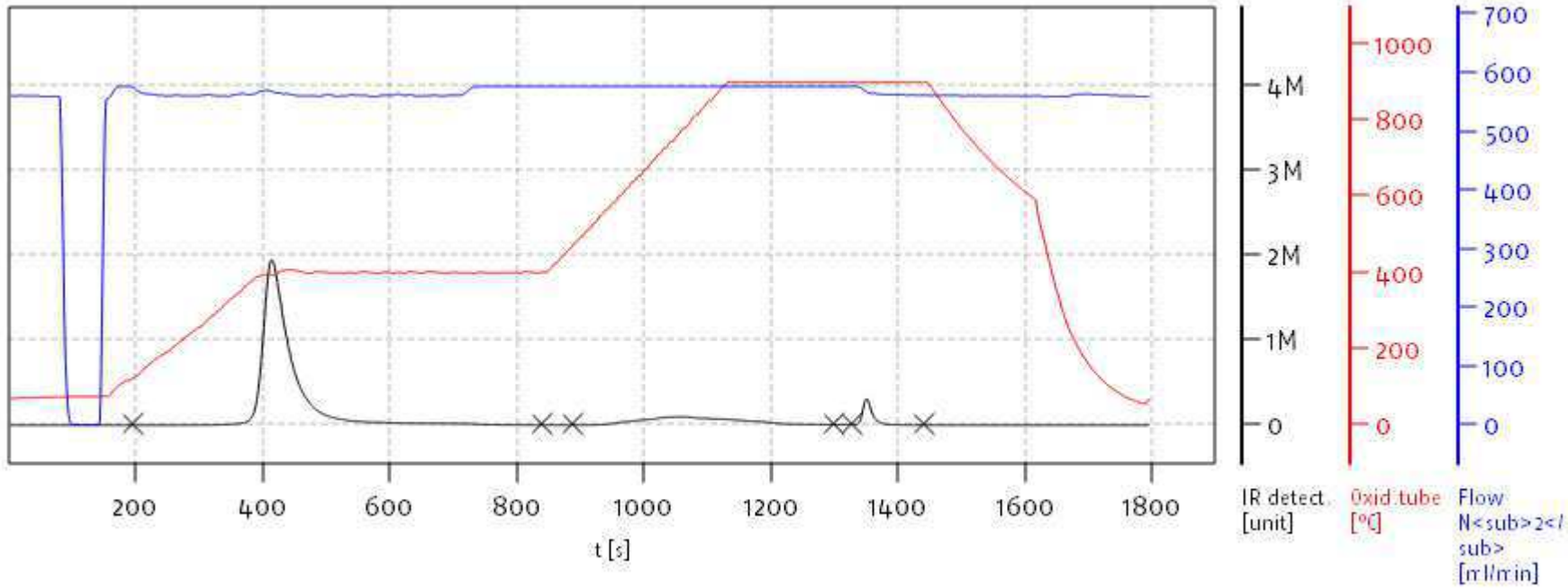
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
47	47	BLE0415-DUP1	488.50		CARBON	5/20/2023 10:41 AM	bl	1.249	3 744 701	1.458	0.058	207 578	672 932	1.191	0.209	0.9871	1.0000



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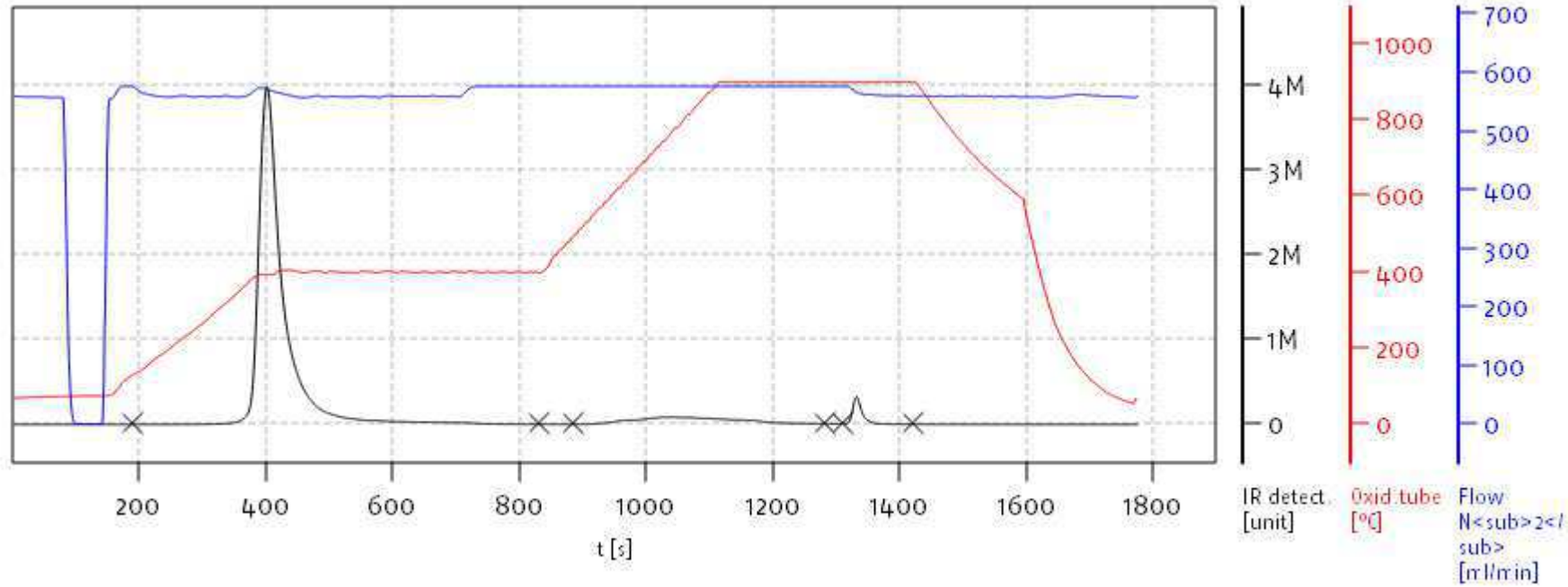
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
48	48	BLE0415-MS1	459.30	0.0084	CARBON	5/20/2023 11:11 AM	bl	2.293	6 565 977	2.504	0.064	214 787	641 129	2.228	0.211	0.9871	1.0000



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Balance: BAL3
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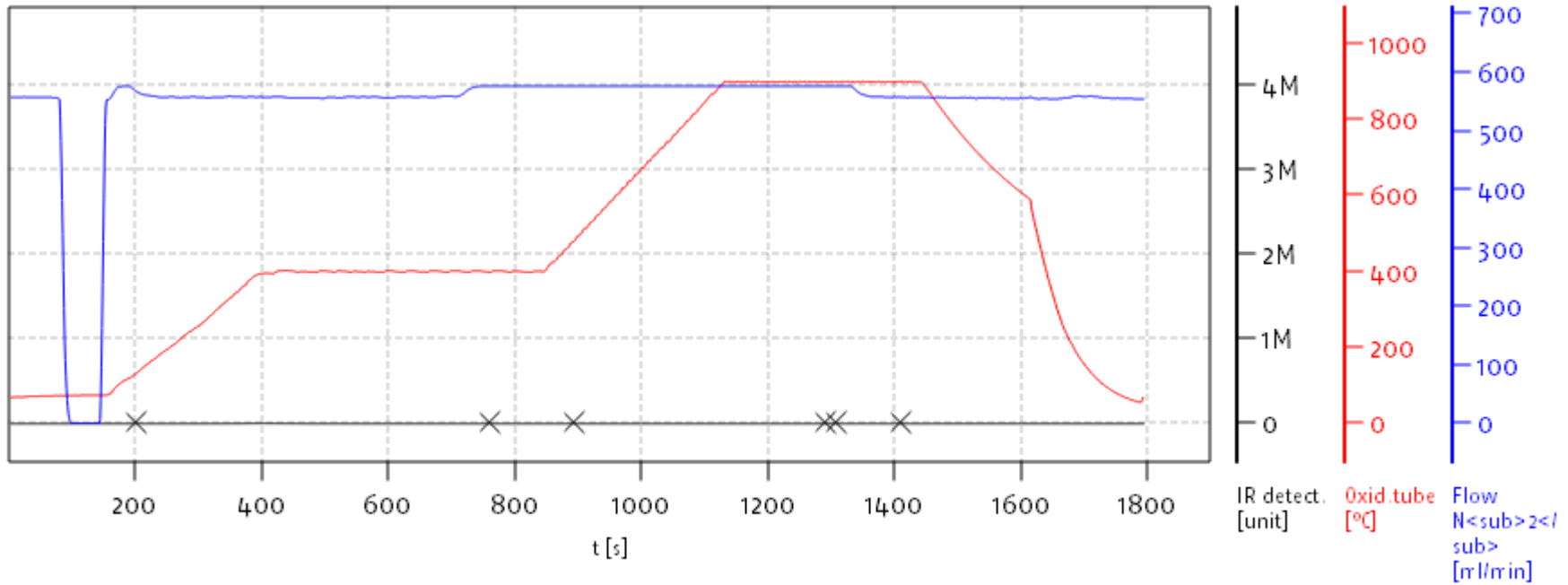
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
49	49	BLANK	1.00		CARBON	5/ 20/2023 11:41 AM	bl	0.000	10 793	0.000	0.000	345	542	0.000	0.000	0.9871	1.0000



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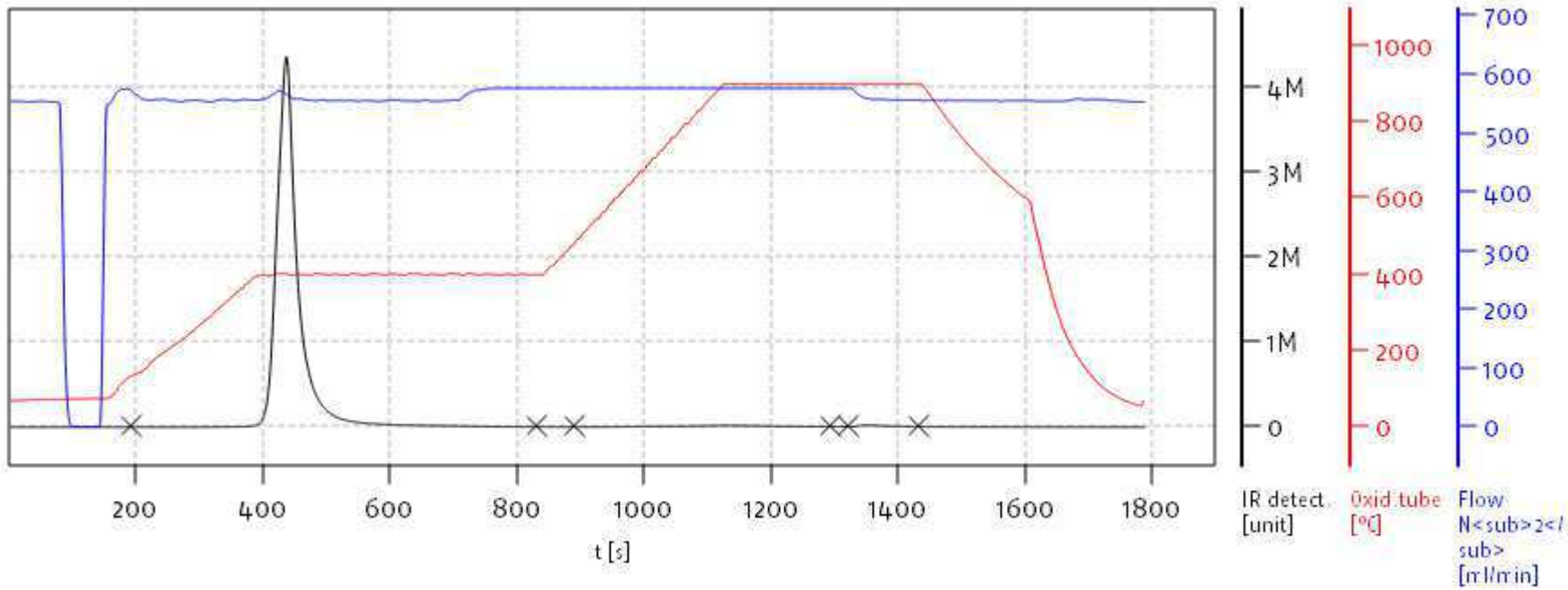
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
50	50	Dfactor	21.90		CARBON	5/20/2023 12:11 PM	bl	44.602	6 288 237	45.404	0.157	50 473	139 578	44.446	0.802	0.9804	1.0000



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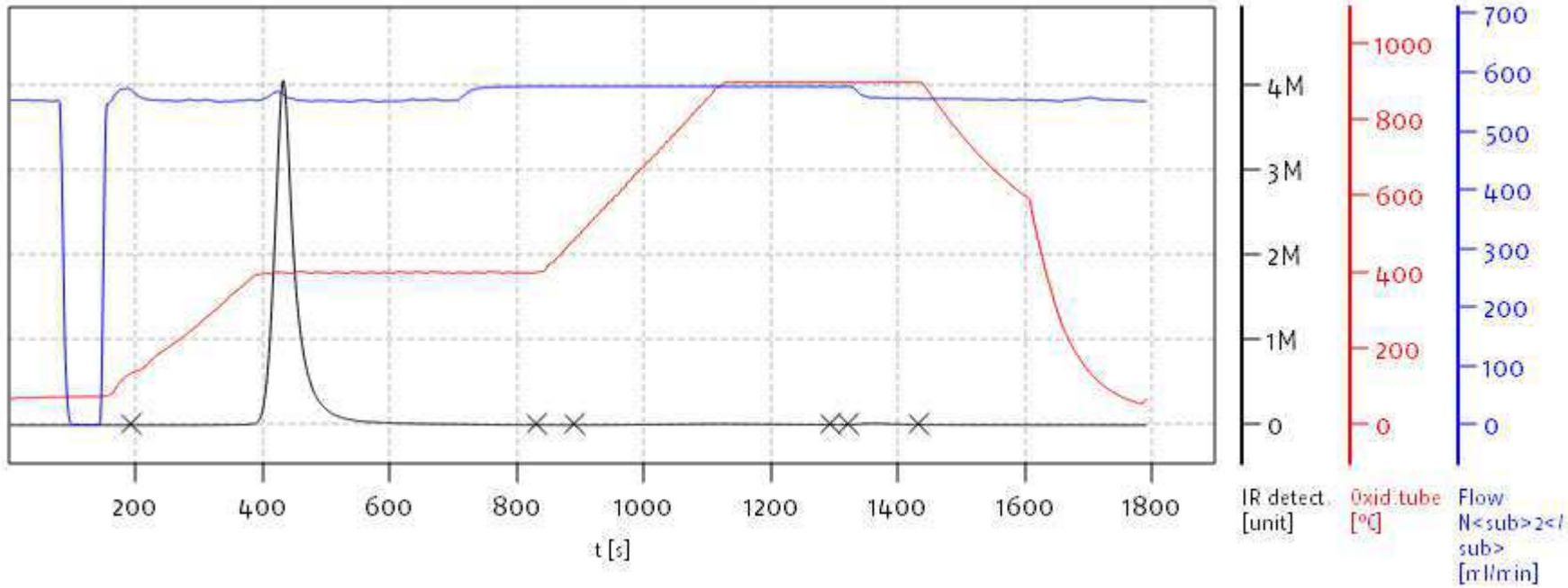
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
51	51	Dfactor	20.90		CARBON	5/20/2023 12:42 PM	bl	44.589	5 988 003	45.259	0.143	47 731	117 180	44.446	0.670	0.9828	1.0000



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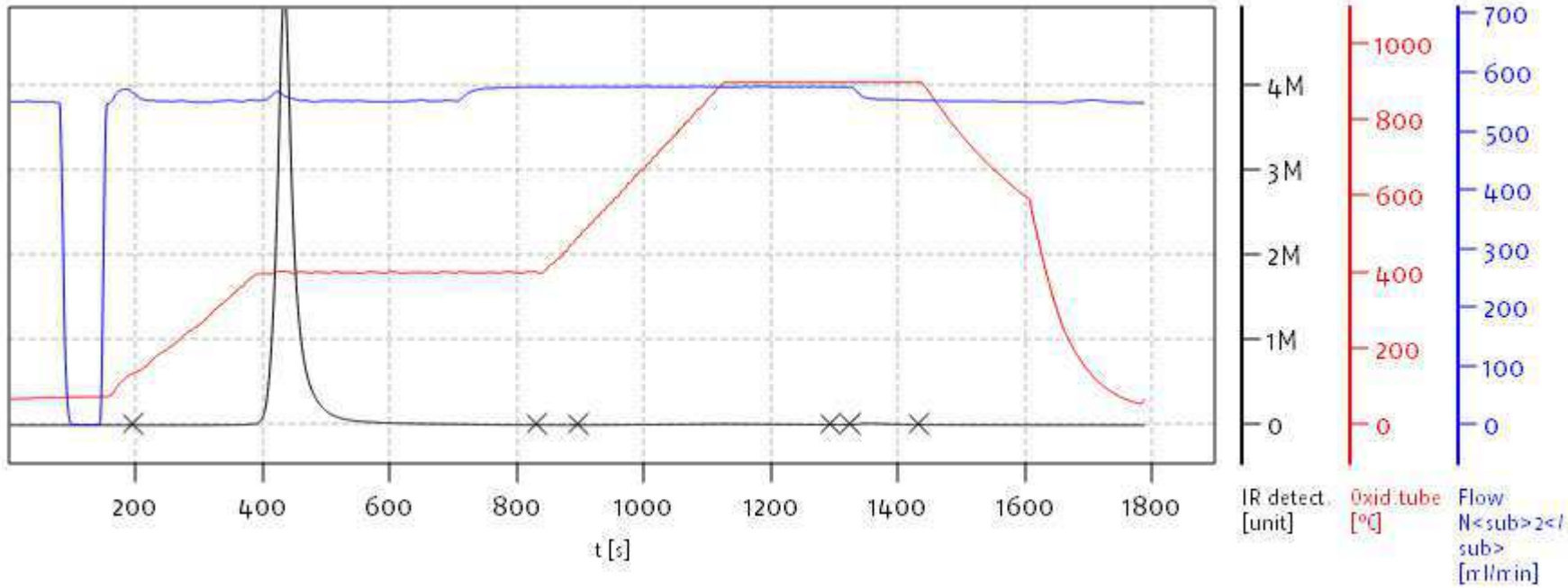
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
52	52	SLE0228-CCV4	21.80		CARBON	5/20/2023 1:12 PM	bl	44.838	6 289 062	45.458	0.128	46 498	114 122	44.709	0.620	0.9816	1.0000



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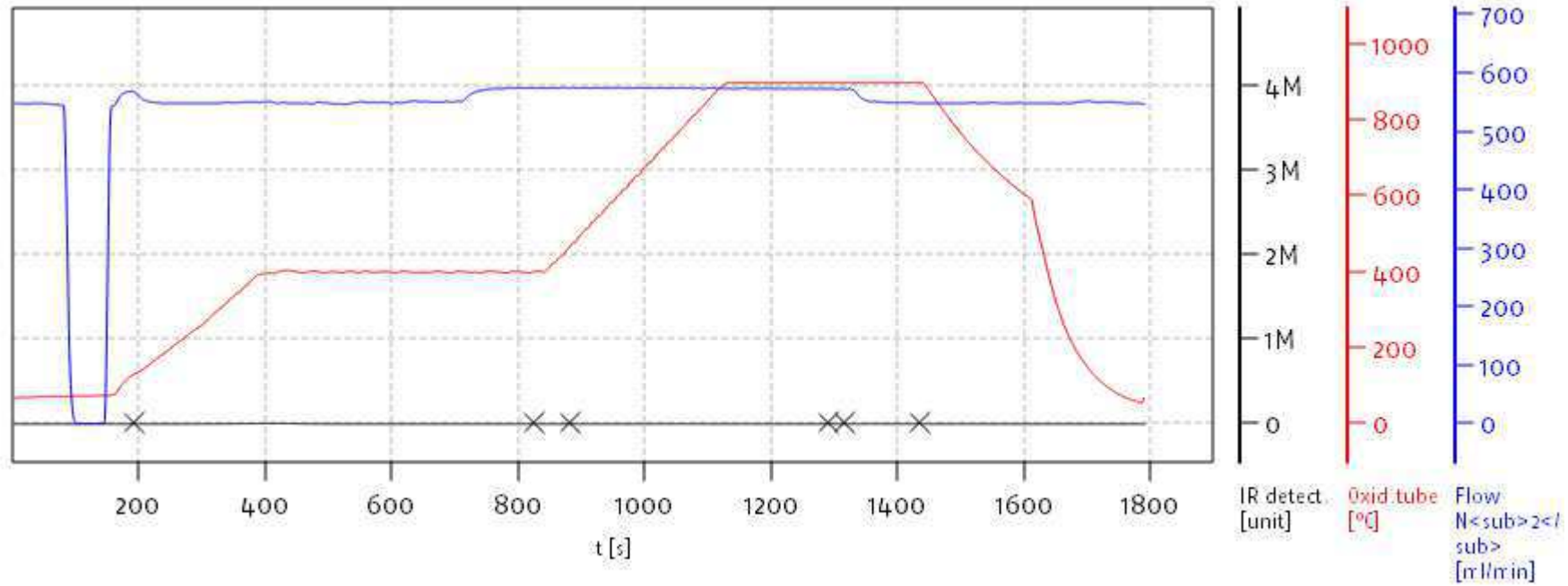
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
53	53	SLE0228-CCB4	503.20		CARBON	5/20/2023 1:42 PM	bl,C3u,C2u	0.000	28 783	0.000	0.000	3 981	6 788	0.000	0.000	0.9816	1.0000



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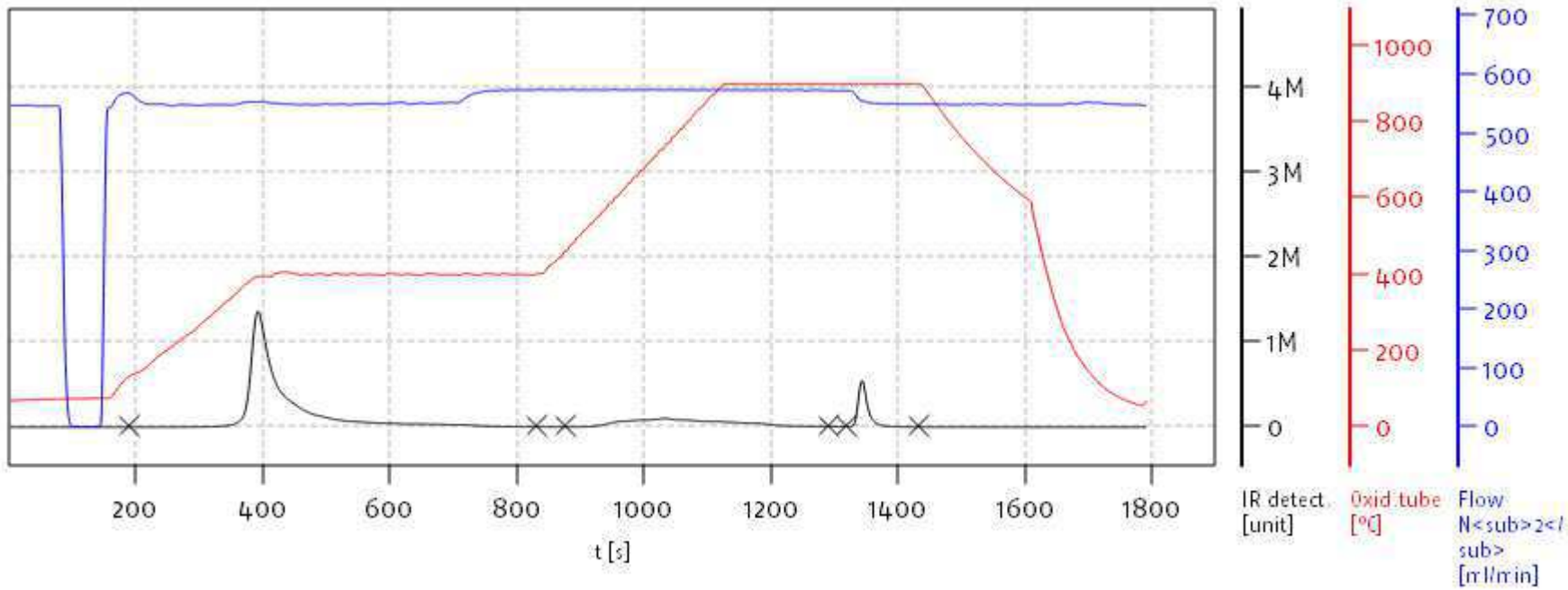
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
54	54	23C0752-02	433.90		CARBON	5/20/2023 2:12 PM	bl	1.128	2 832 921	1.383	0.121	360 859	728 088	1.006	0.256	0.9816	1.0000



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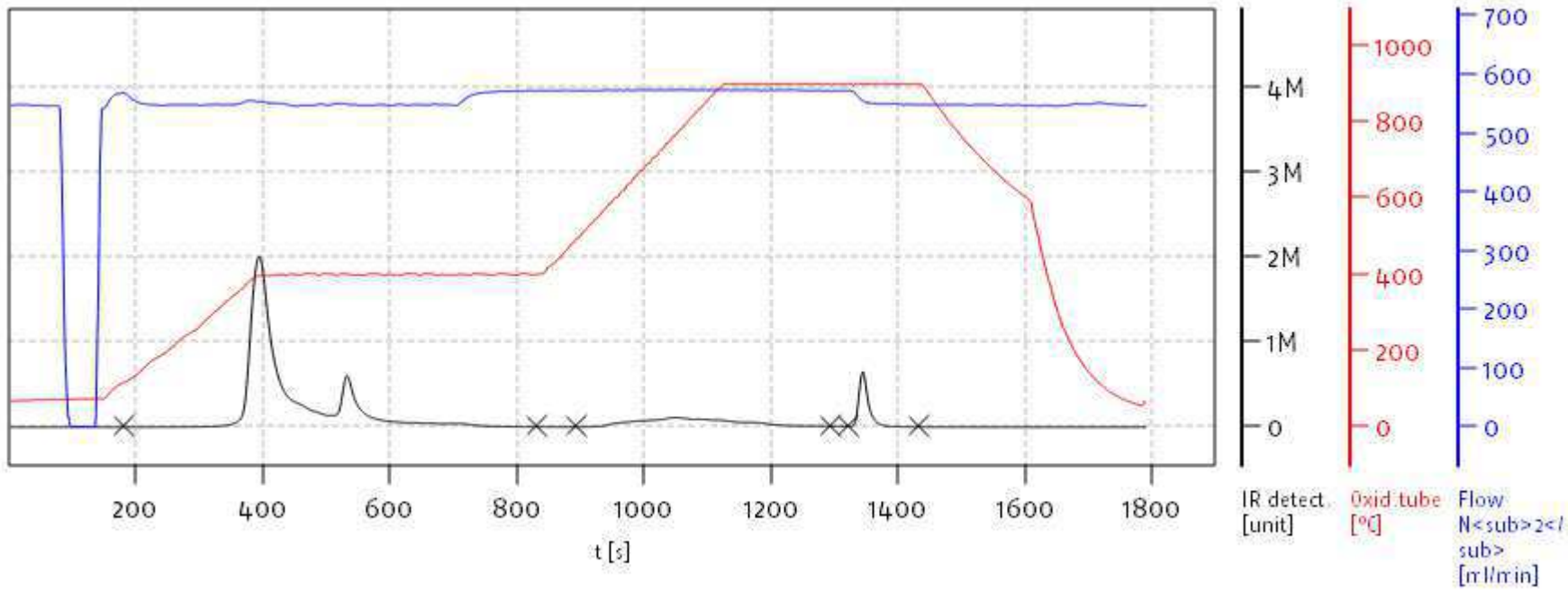
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
55	55	23C0752-03	472.60		CARBON	5/20/2023 2:43 PM	bl	1.597	4 466 865	1.849	0.135	430 666	779 431	1.462	0.252	0.9816	1.0000



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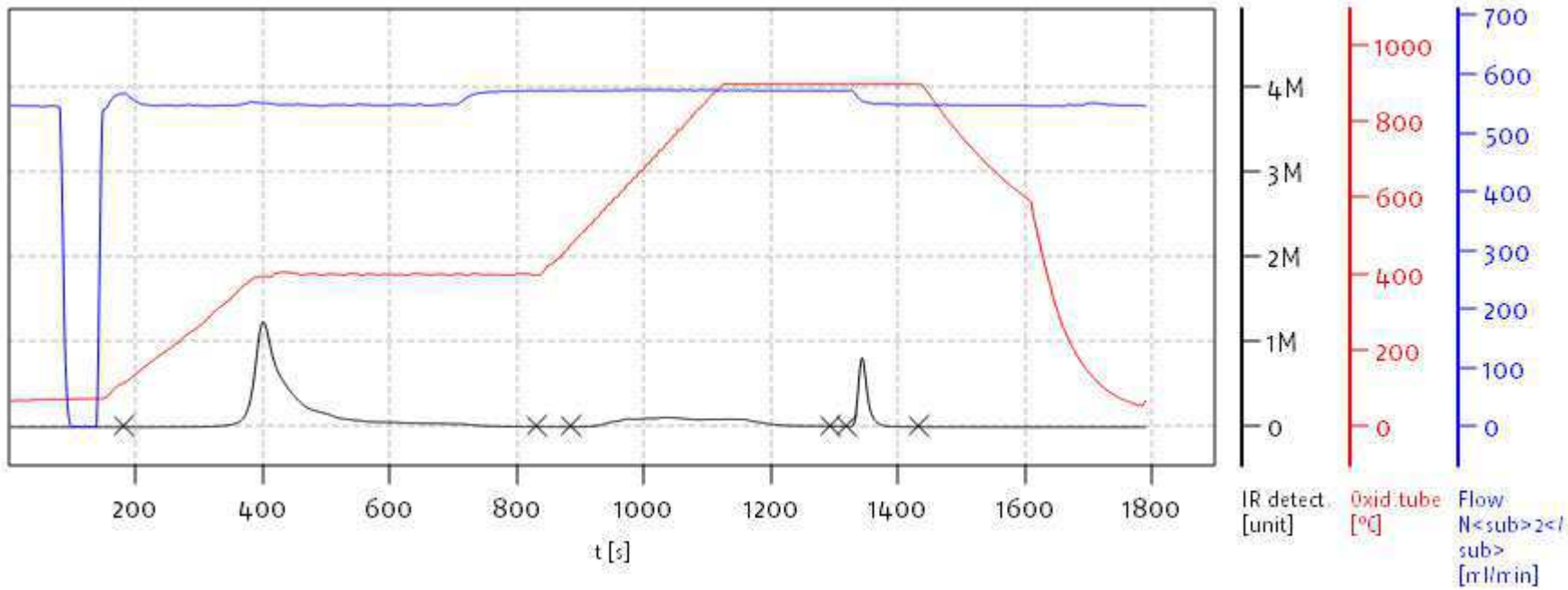
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
56	56	23C0752-04	507.10		CARBON	5/20/2023 3:13 PM	bl	1.092	3 078 839	1.375	0.156	526 115	934 462	0.936	0.283	0.9816	1.0000



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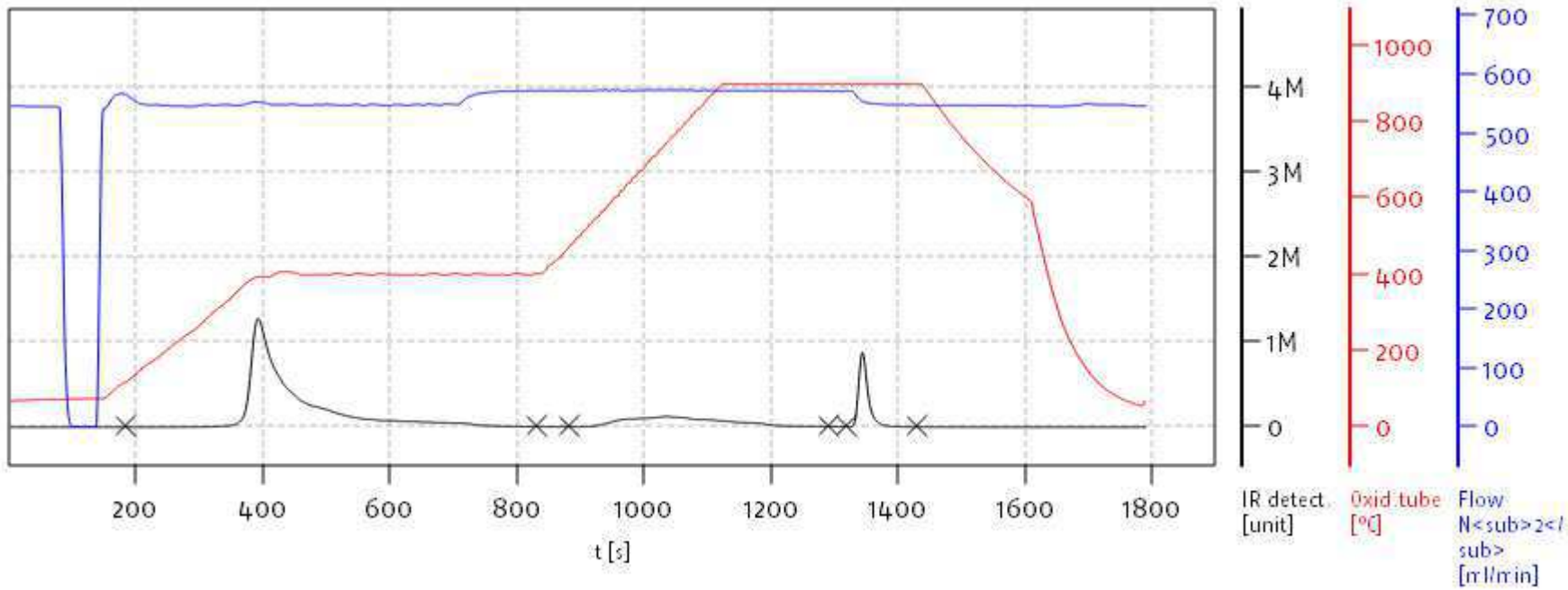
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
57	57	23C0752-05	514.10		CARBON	5/20/2023 3:43 PM	bl	1.215	3 485 356	1.476	0.168	572 560	876 242	1.047	0.261	0.9816	1.0000



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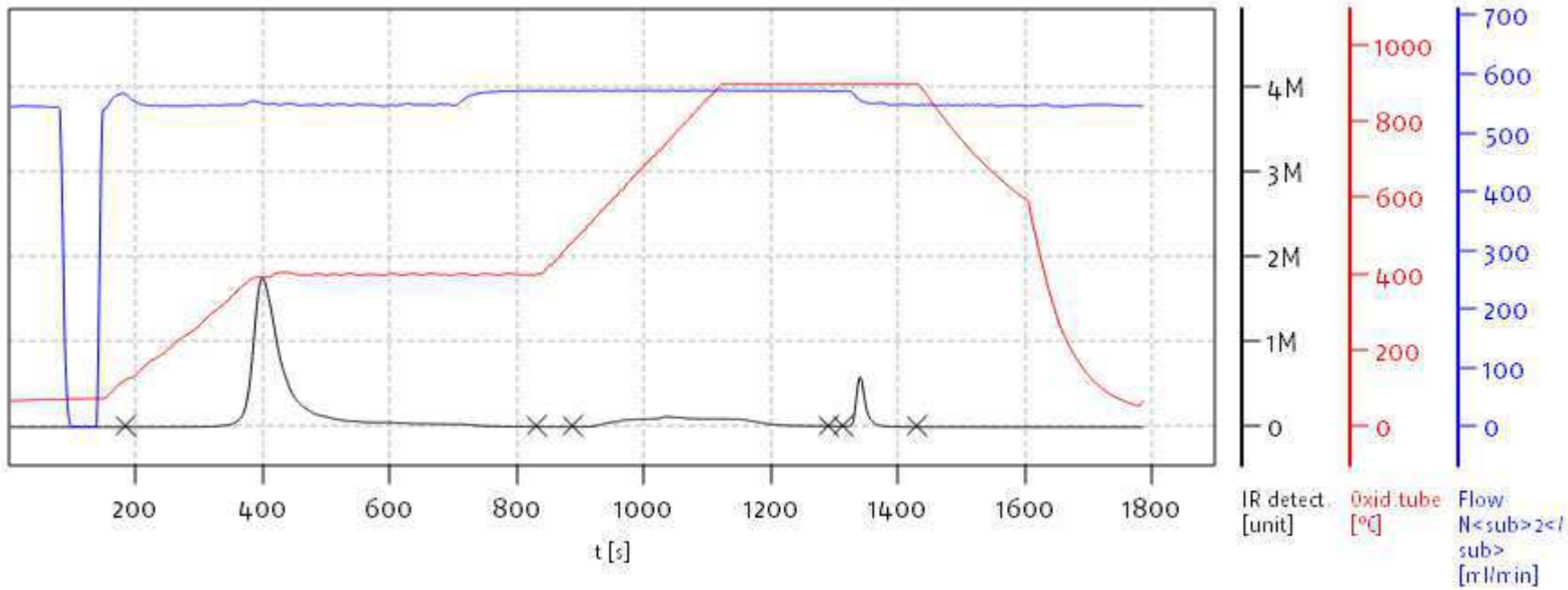
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
58	58	23C0752-06	535.90		CARBON	5/20/2023 4:13 PM	bl	1.224	3 876 493	1.496	0.106	386 361	949 288	1.118	0.272	0.9816	1.0000



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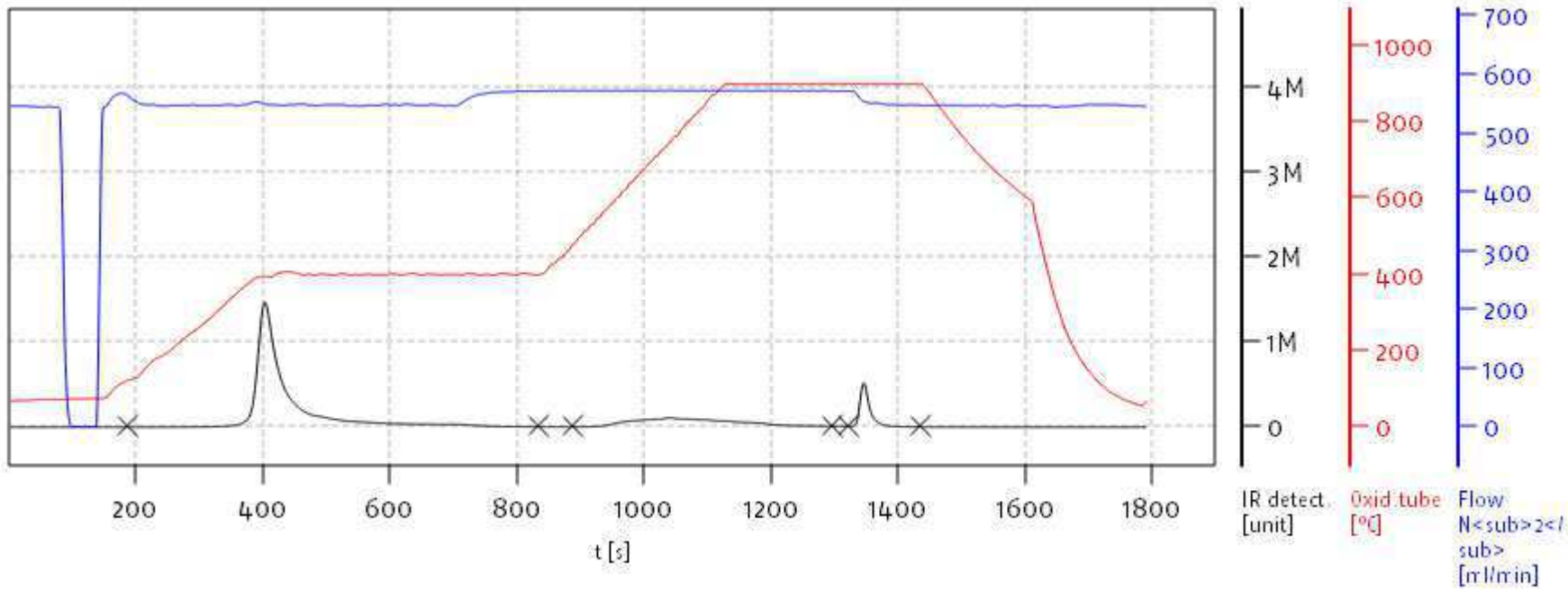
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
59	59	23C0752-07	433.20		CARBON	5/20/2023 4:43 PM	bl	1.114	2 792 647	1.390	0.120	357 902	782 517	0.993	0.276	0.9816	1.0000



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Balance: BAL3
Analyst: CDE

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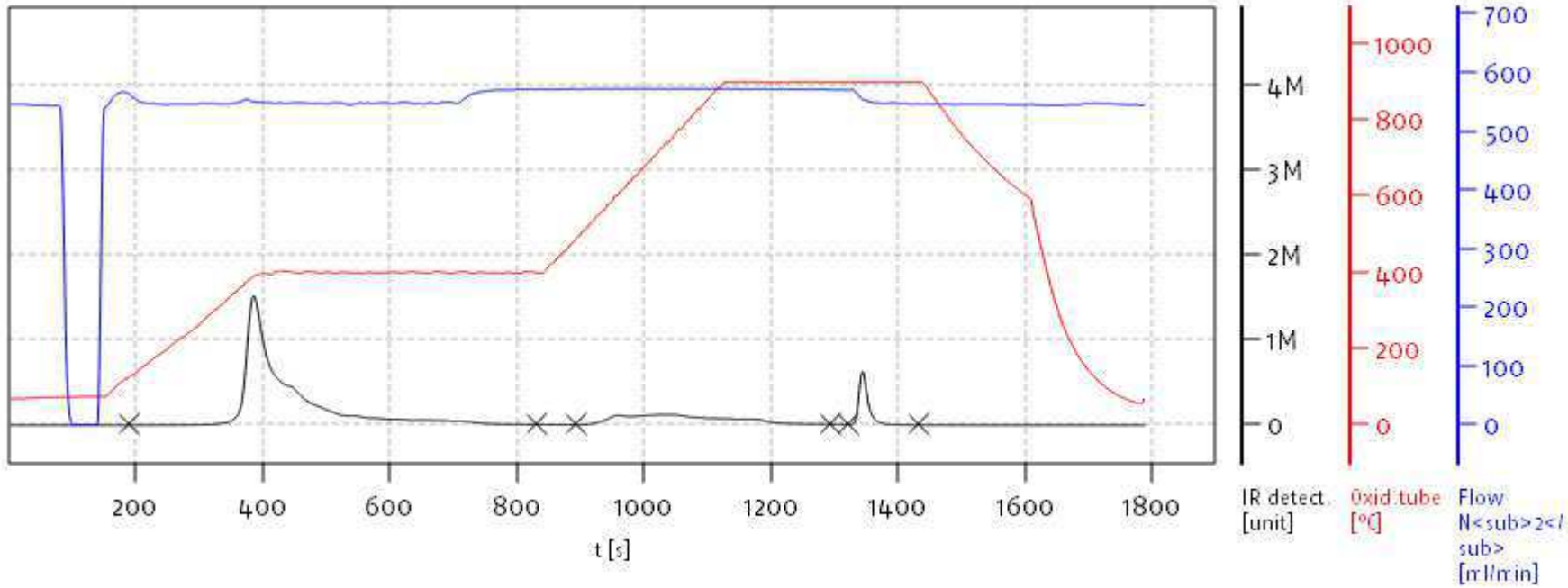
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
60	60	23D0063-01	554.10		CARBON	5/20/2023 5:14 PM	bl	1.181	3 848 200	1.461	0.107	404 287	1 008 584	1.073	0.280	0.9816	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

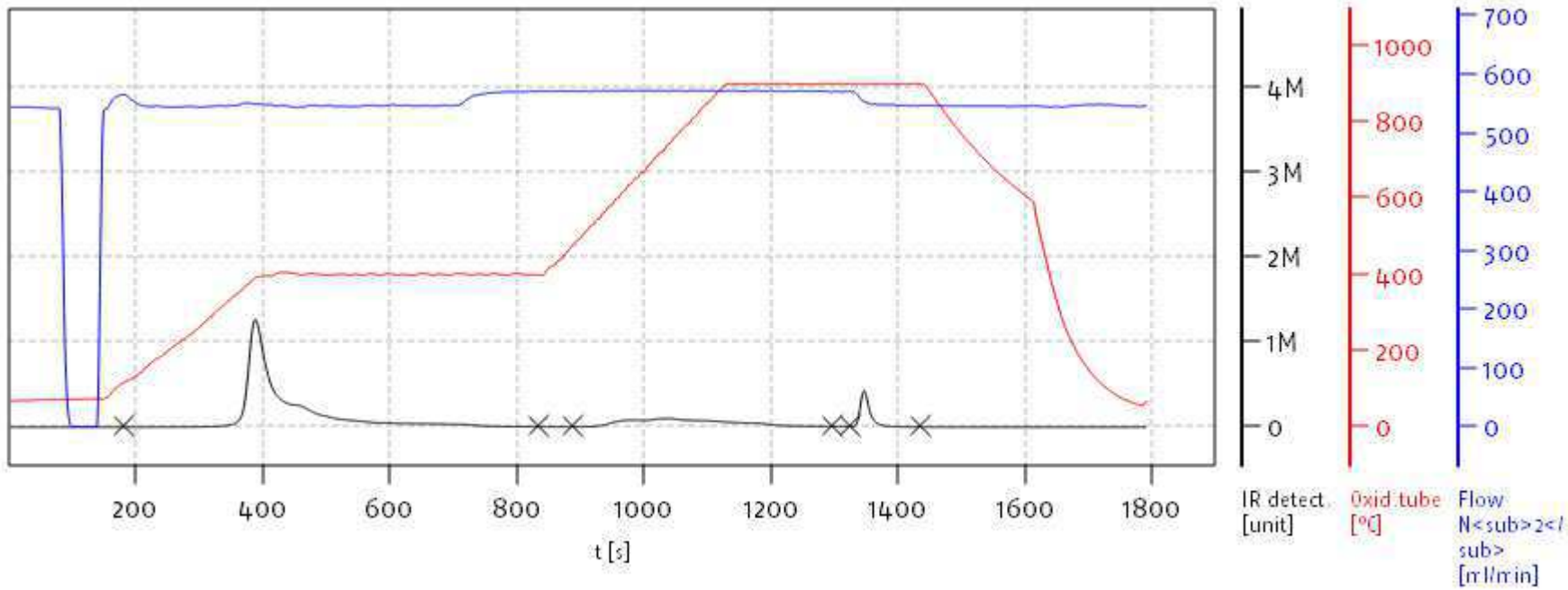
elementar
EXCELLENCE IN ELEMENTS

Document: 051923 CDE from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
61	61	23D0063-02	428.70		CARBON	5/20/2023 5:44 PM	bl	1.093	2 777 095	1.361	0.095	284 885	753 614	0.998	0.268	0.9816	1.0000



Name:

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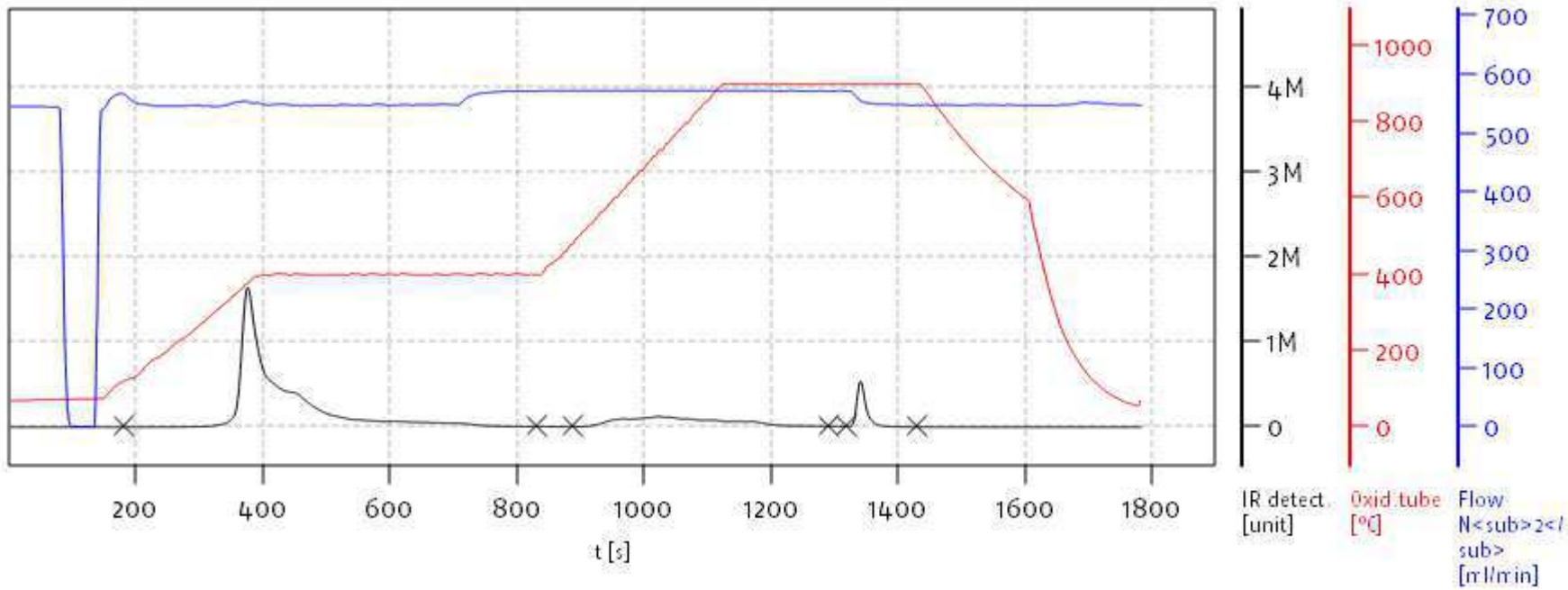
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
62	62	23D0063-03	511.70		CARBON	5/20/2023 6:14 PM	bl	1.263	3 854 600	1.541	0.099	349 429	922 971	1.164	0.277	0.9816	1.0000



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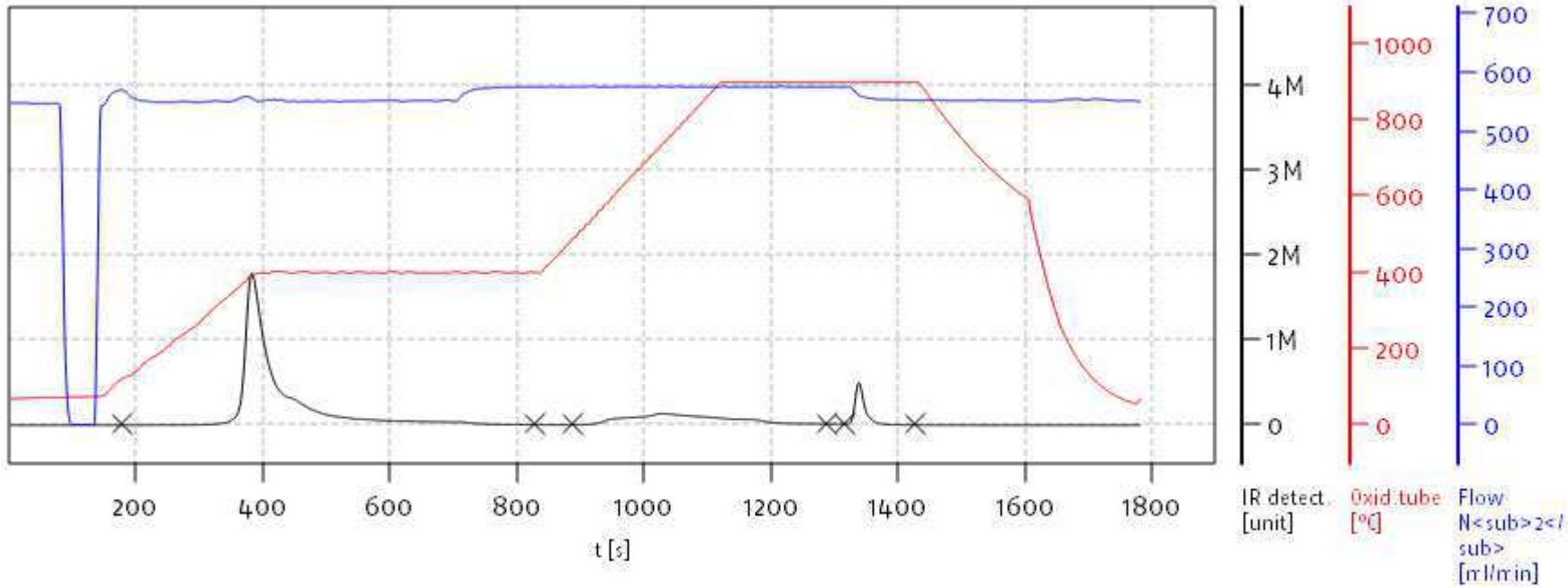
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
63	63	23D0063-04	536.90		CARBON	5/20/2023 6:44 PM	bl	1.135	3 624 692	1.415	0.092	341 876	975 219	1.043	0.280	0.9816	1.0000



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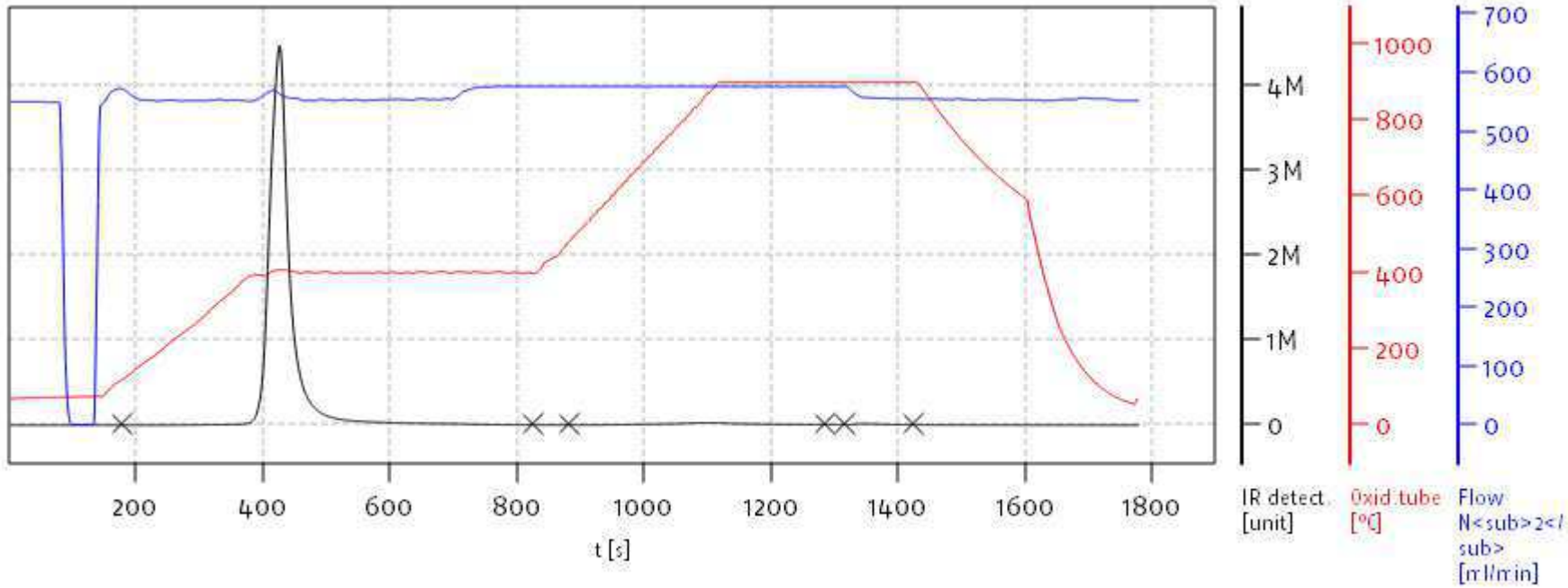
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
64	64	SLE0228-CCV5	21.60		CARBON	5/20/2023 7:14 PM	bl	44.817	6 235 777	45.968	0.077	39 399	185 616	44.739	1.151	0.9816	1.0000



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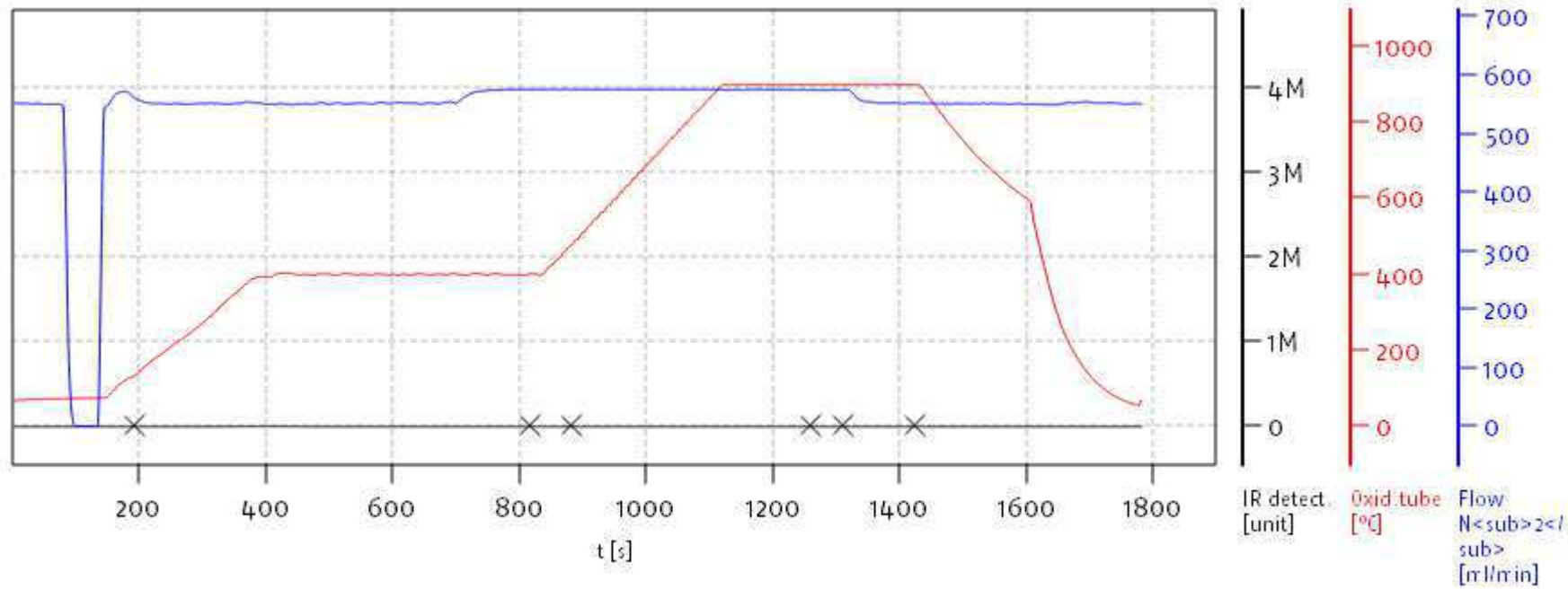
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
65	65	SLE0228-CCB5	522.50		CARBON	5/20/2023 7:44 PM	bl,C1u,C2u	0.000	10 880	0.000	0.000	1 138	0	0.000	0.000	0.9816	1.0000



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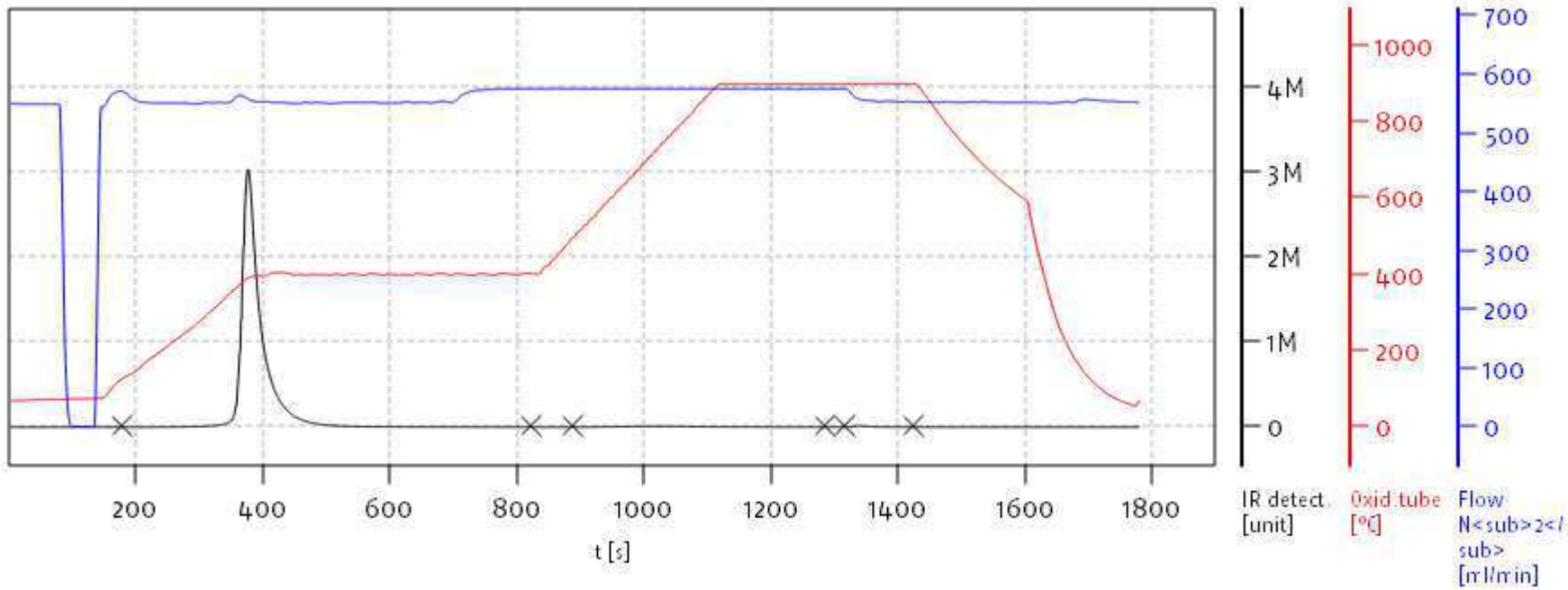
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
66	66	23D0095-01	367.80		CARBON	5/20/2023 8:14 PM	bl,C2u	1.641	3 905 709	1.657	0.000	17 182	64 970	1.641	0.016	0.9816	1.0000



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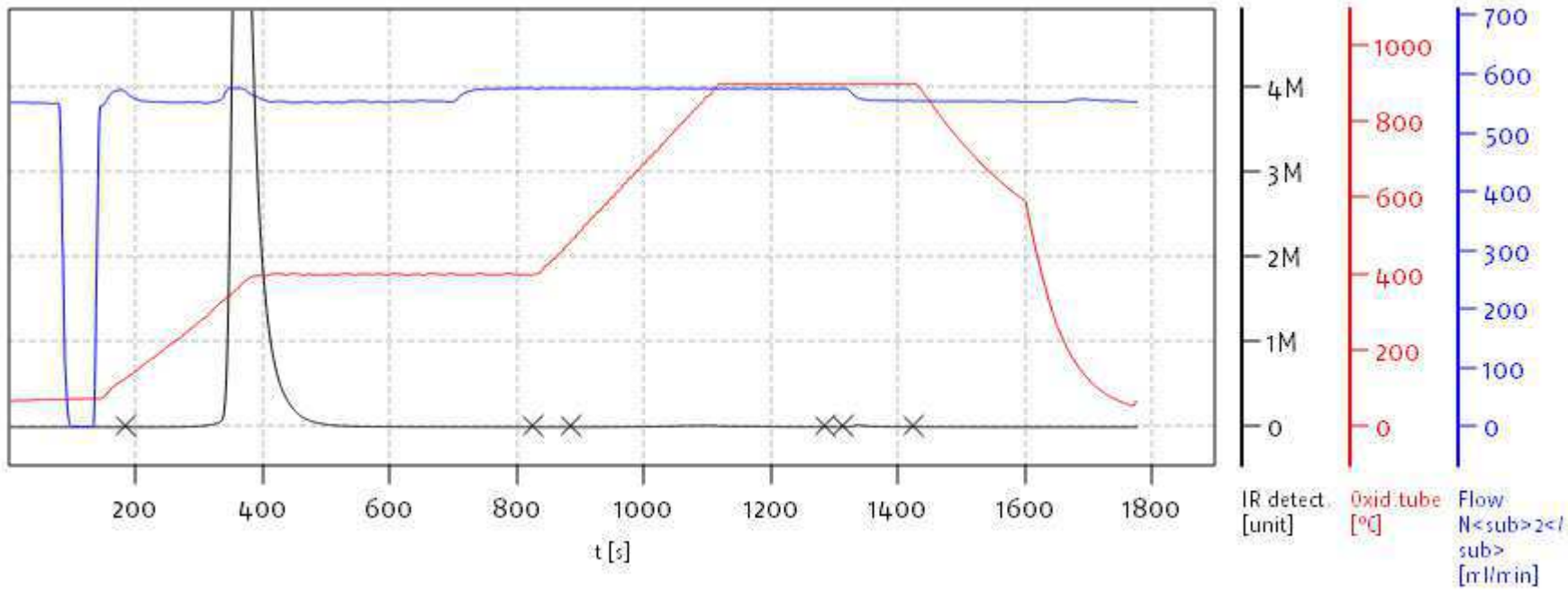
Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
67	67	23D0104-01	341.10		CARBON	5/20/2023 8:44 PM	bl,C1o	5.900	12 954 081	5.929	0.000	27 979	92 814	5.900	0.030	0.9816	1.0000



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Soli TOC Cube, Carbon
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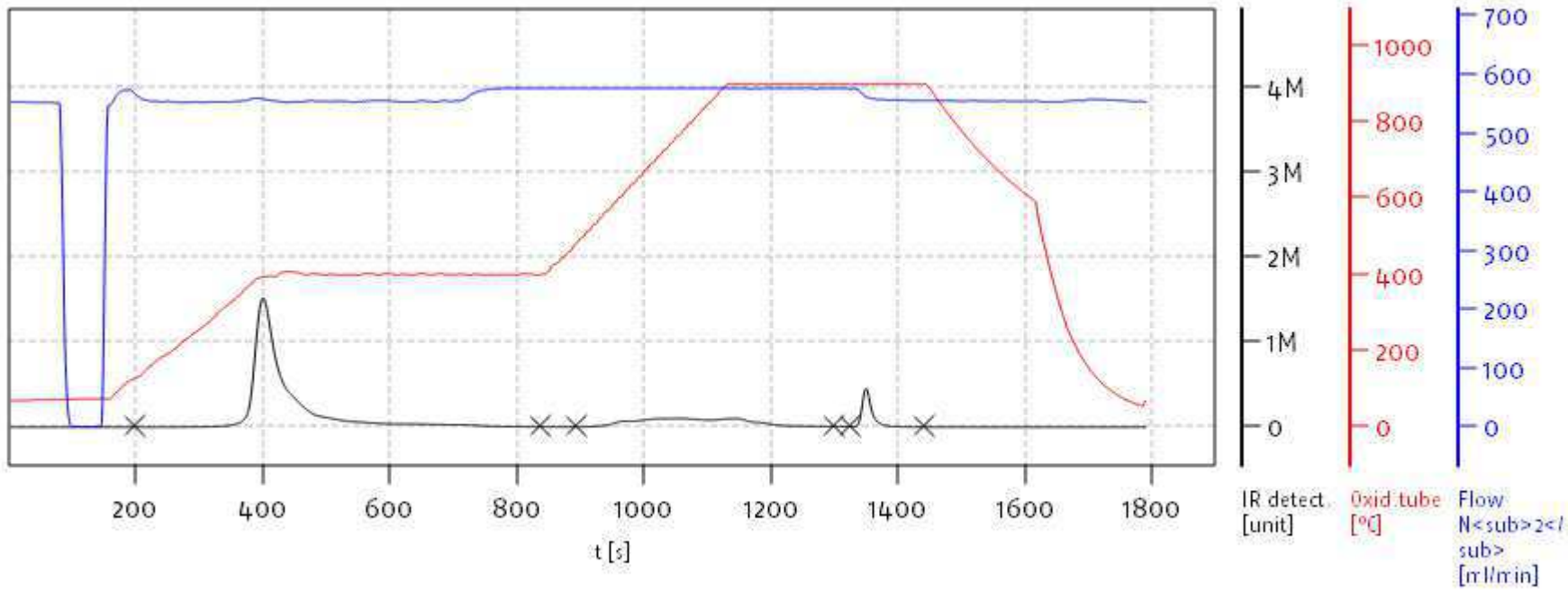
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
68	68	23D0396-01	419.70		CARBON	5/20/2023 9:14 PM	bl	1.256	3 138 239	1.565	0.102	300 035	846 280	1.153	0.309	0.9816	1.0000



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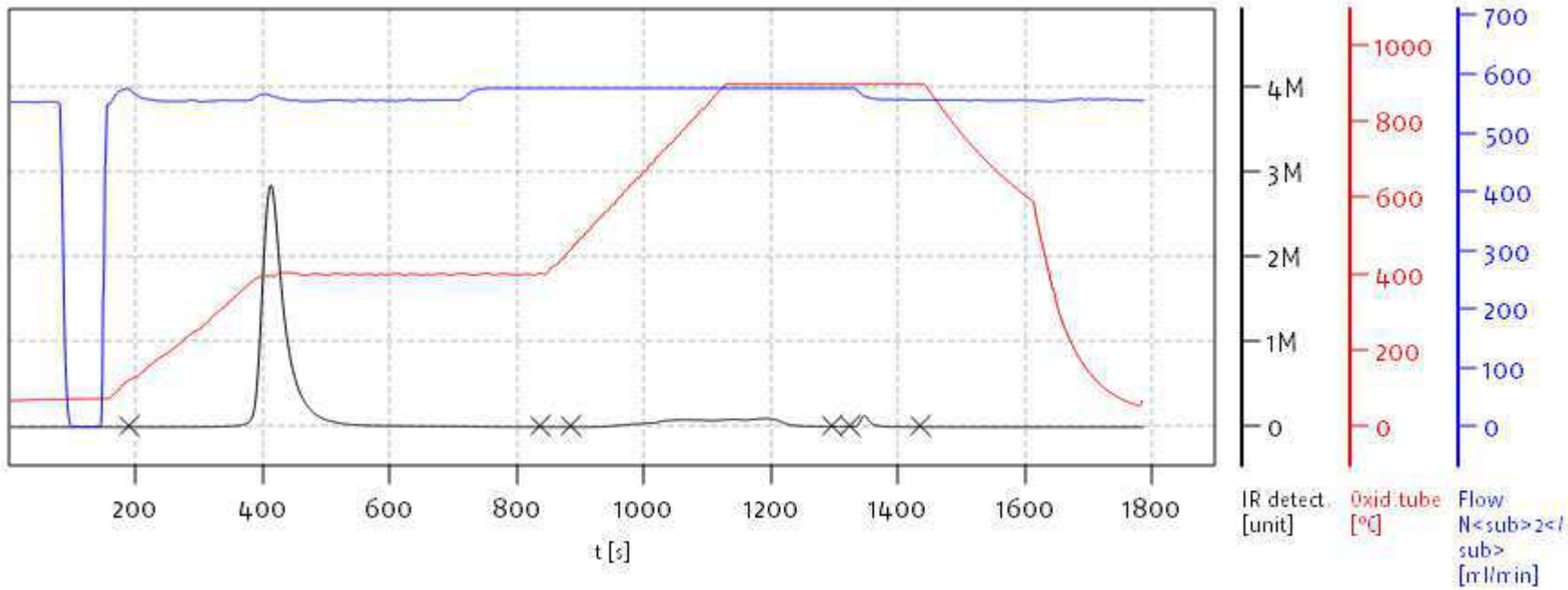
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
69	69	23D0396-02	517.50		CARBON	5/20/2023 9:44 PM	bl	1.386	4 567 543	1.612	0.020	95 058	765 666	1.365	0.226	0.9816	1.0000



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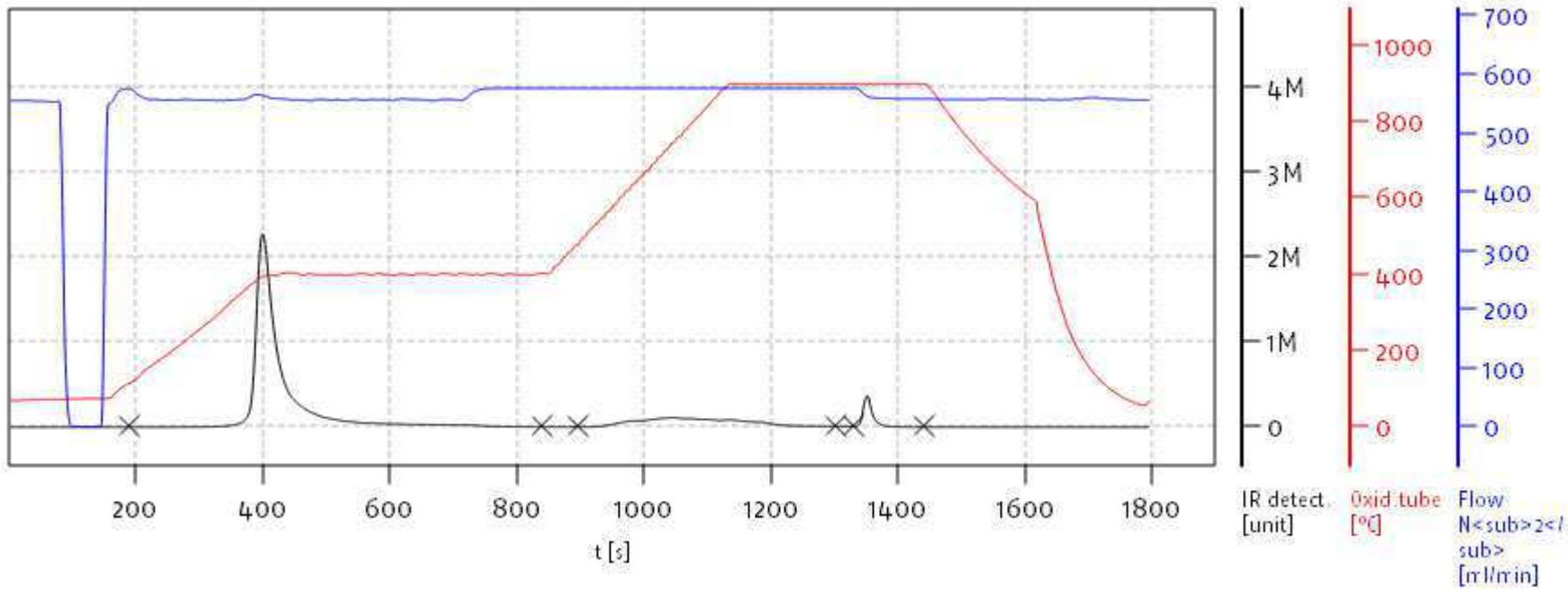
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
70	70	23D0396-03	442.20		CARBON	5/20/2023 10:15 PM	bl	1.366	3 697 018	1.653	0.074	235 882	830 868	1.292	0.288	0.9816	1.0000



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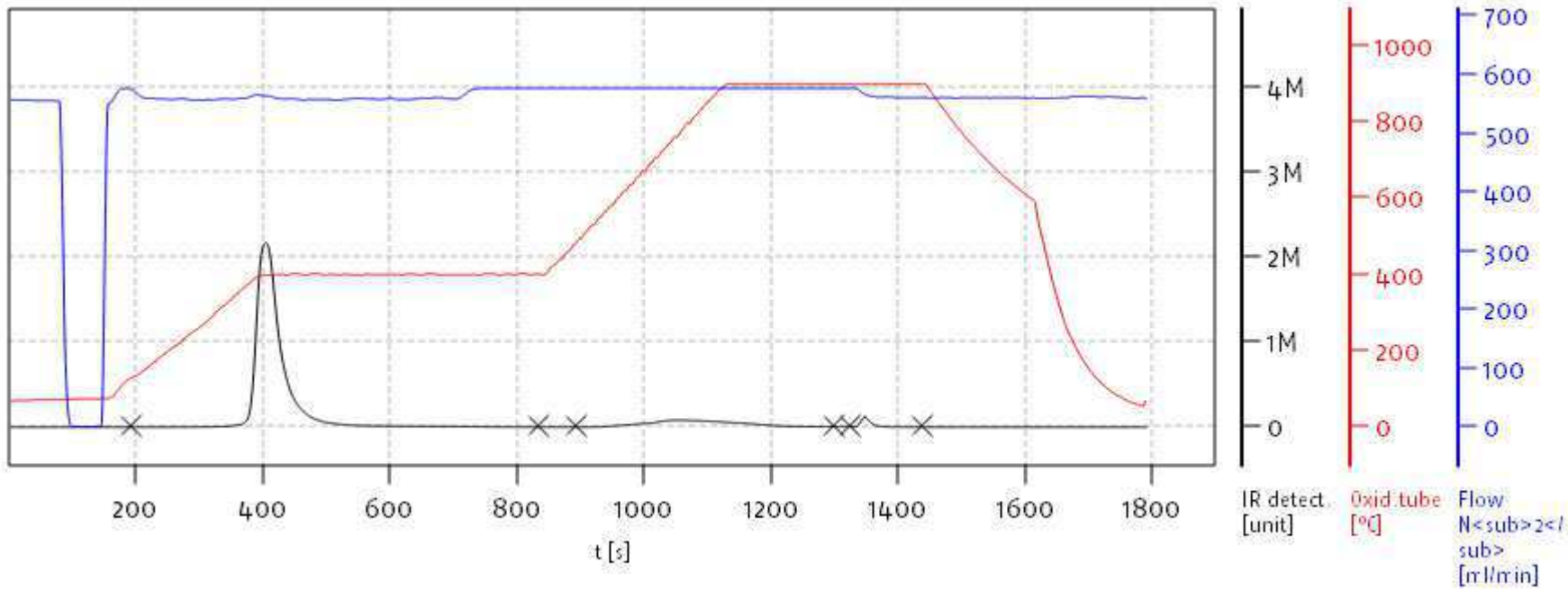
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
71	71	23D0396-04	421.80		CARBON	5/20/2023 10:45 PM	bl	1.361	3 660 276	1.548	0.020	83 150	525 889	1.340	0.187	0.9816	1.0000



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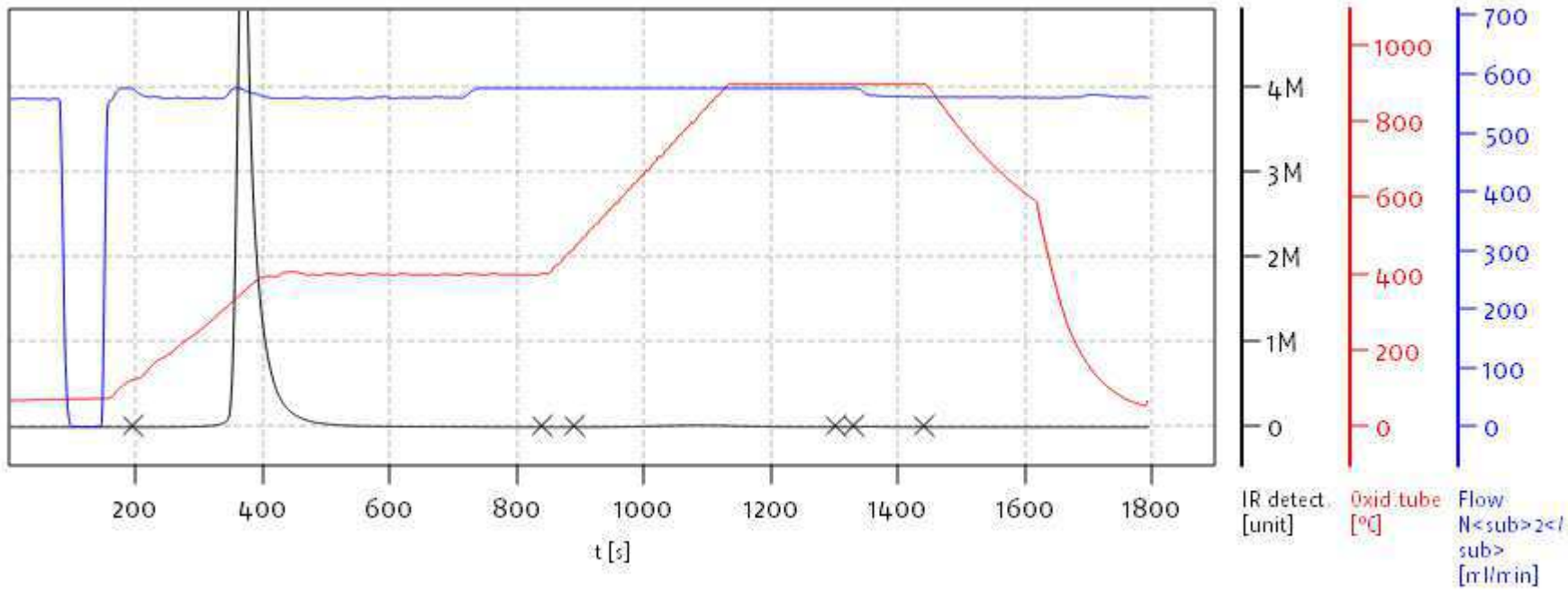
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
72	72	23C0702-01	200.00		CARBON	5/20/2023 11:15 PM	bl,C2u	5.777	7 449 747	5.850	0.000	10 267	120 538	5.777	0.073	0.9816	1.0000



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Balance: BAL3
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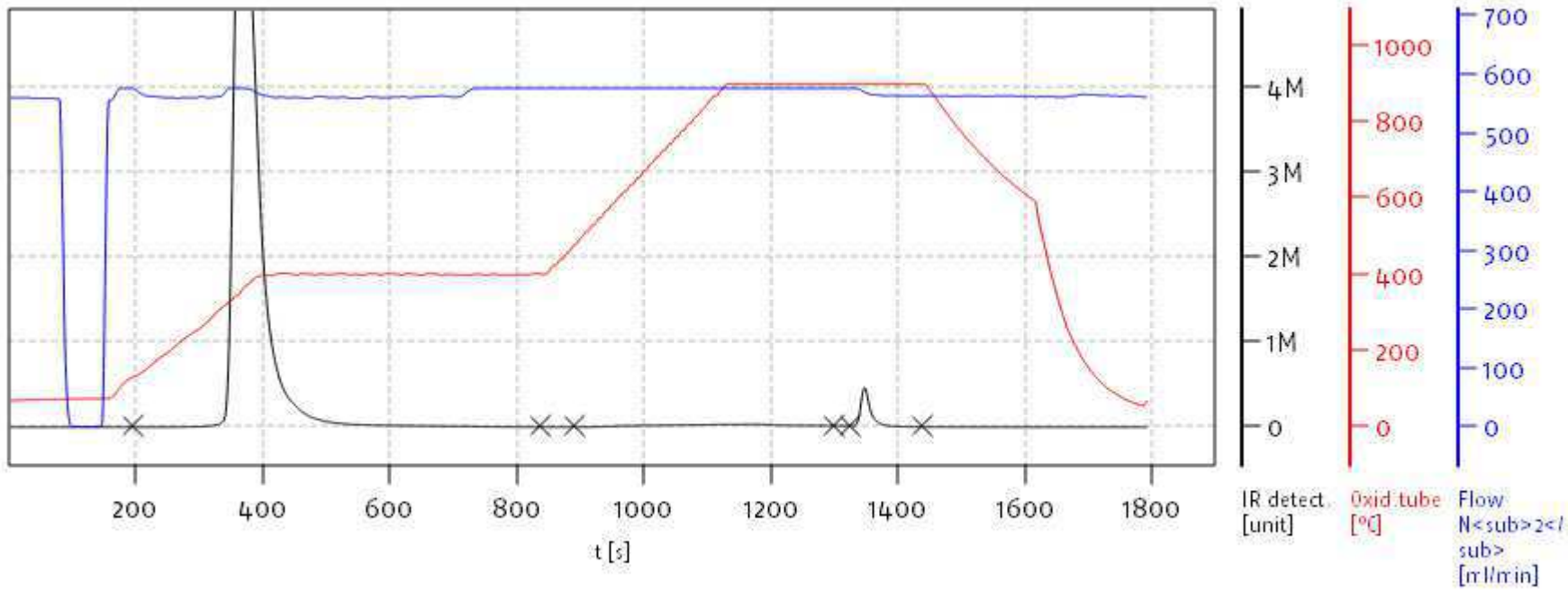
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
73	73	23D0620-01	339.90		CARBON	5/20/2023 11:46 PM	bl,C1o	5.430	11 584 292	5.560	0.137	322 642	307 218	5.293	0.130	0.9816	1.0000



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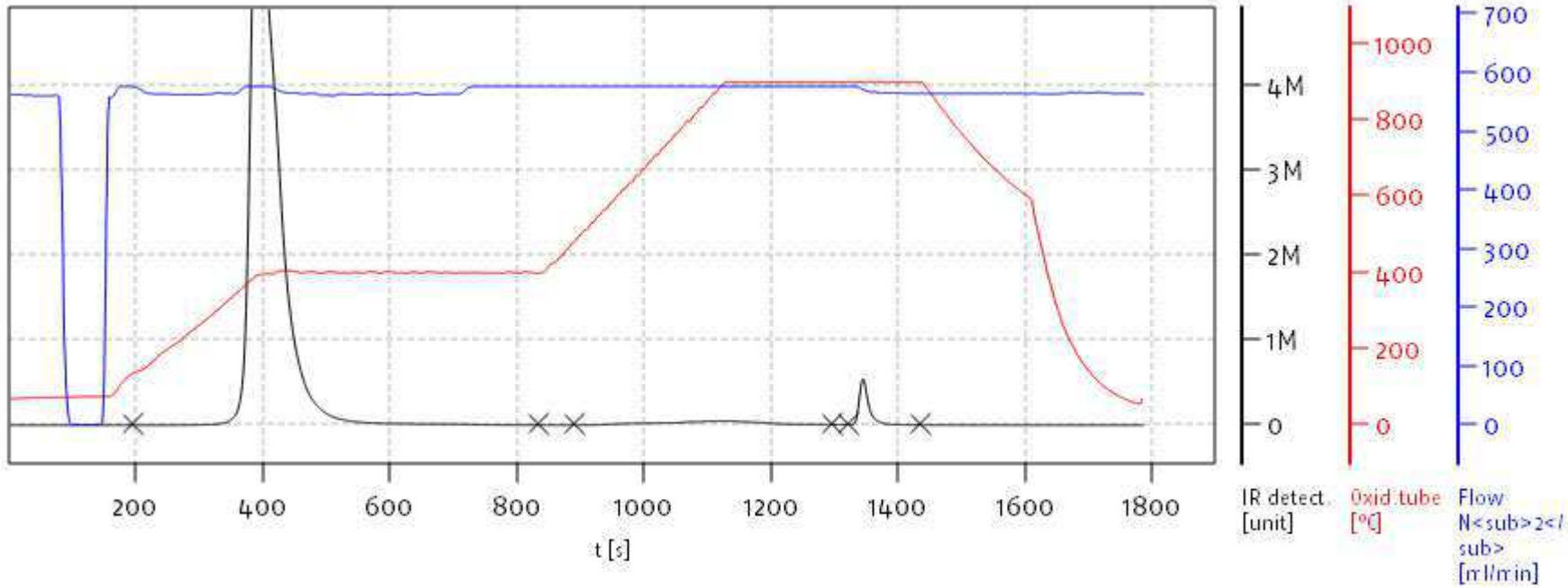
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
74	74	23D0620-02	525.90		CARBON	5/21/2023 12:16 AM	bl,C1o	3.812	12 563 658	3.908	0.101	362 617	349 269	3.711	0.097	0.9816	1.0000



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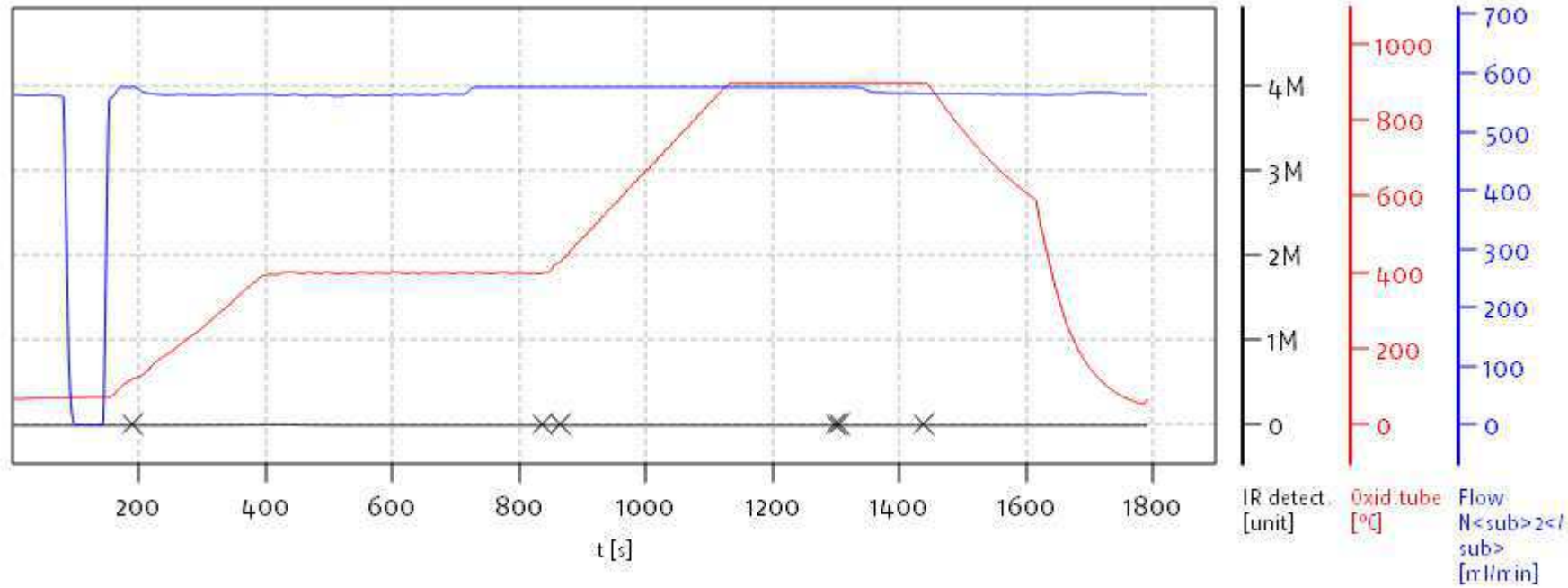
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
75	75	SLE0228-CCB6	516.30		CARBON		bl,C3u,C2u	0.000	29 650	0.000	0.000	435	2 780	0.000	0.000	0.9816	1.0000



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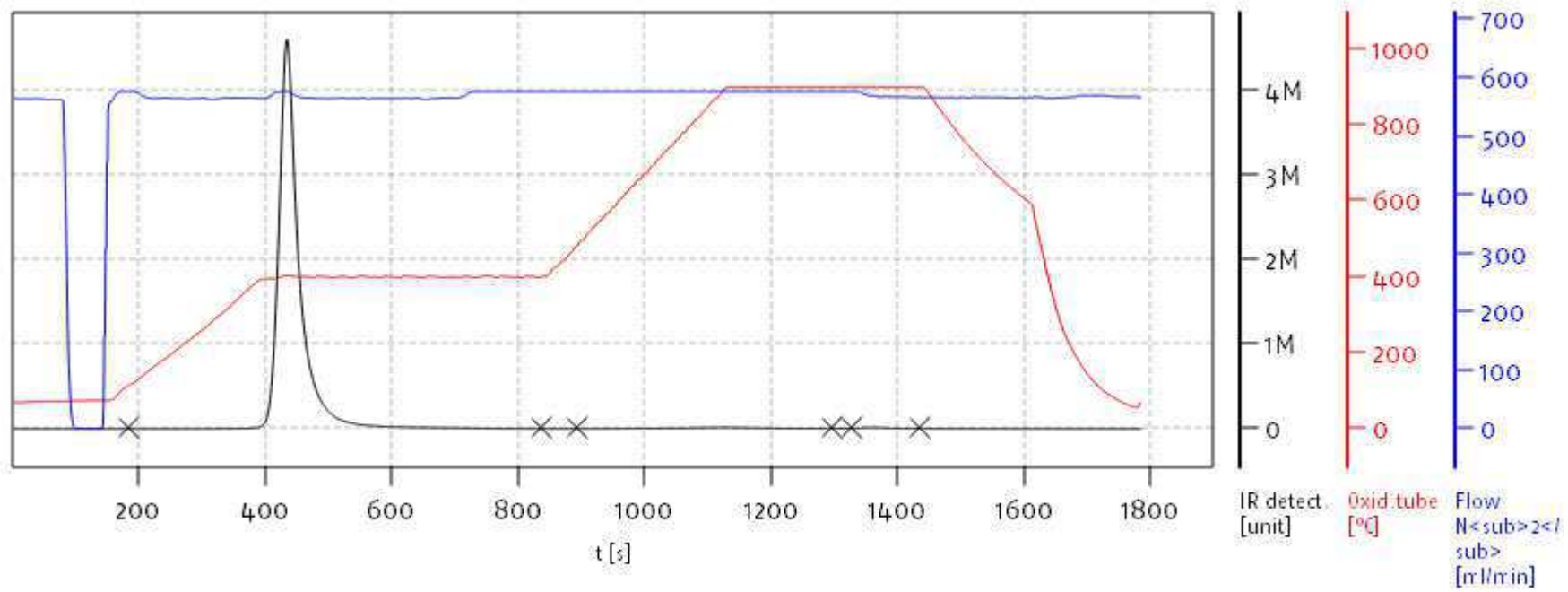
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
76	76	SLE0228-CCV6	21.80		CARBON		bl	45.959	6 456 747	46.607	0.052	36 018	117 924	45.907	0.648	0.9816	1.0000



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Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0270	Instrument:	TOC Cube
		Calibration:	GE00052

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Cal Standard	SLE0270-CAL1	CubeData_05182023@1024b-101	NA	05/17/23 12:46
Cal Standard	SLE0270-CAL2	CubeData_05182023@1024b-102	NA	05/17/23 13:16
Cal Standard	SLE0270-CAL3	CubeData_05182023@1024b-103	NA	05/17/23 13:46
Cal Standard	SLE0270-CAL4	CubeData_05182023@1024b-104	NA	05/17/23 14:16
Cal Standard	SLE0270-CAL5	CubeData_05182023@1024b-105	NA	05/17/23 14:47
Cal Standard	SLE0270-CAL6	CubeData_05182023@1024b-106	NA	05/17/23 15:17
Cal Standard	SLE0270-CAL7	CubeData_05182023@1024b-107	NA	05/17/23 15:47
Cal Standard	SLE0270-CAL8	CubeData_05182023@1024b-108	NA	05/17/23 16:17
Cal Standard	SLE0270-CAL9	CubeData_05182023@1024b-109	NA	05/17/23 16:47
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Cal Standard	SLE0270-CALC	CubeData_05182023@1024b-112	NA	05/17/23 18:18
Cal Standard	SLE0270-CALD	CubeData_05182023@1024b-113	NA	05/17/23 18:48
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Cal Standard	SLE0270-CALF	CubeData_05182023@1024b-115	NA	05/17/23 19:48
Cal Standard	SLE0270-CALG	CubeData_05182023@1024b-116	NA	05/17/23 20:18
Cal Standard	SLE0270-CALH	CubeData_05182023@1024b-117	NA	05/17/23 20:48
Cal Standard	SLE0270-CALI	CubeData_05182023@1024b-118	NA	05/17/23 21:19
Cal Standard	SLE0270-CALJ	CubeData_05182023@1024b-119	NA	05/17/23 21:49
Cal Standard	SLE0270-CALK	CubeData_05182023@1024b-120	NA	05/17/23 22:19
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Initial Cal Blank	SLE0270-ICB1	CubeData_05182023@1024b-127	NA	05/18/23 02:51
Calibration Check	SLE0270-CCV1	CubeData_05182023@1024b-126	NA	05/18/23 04:21
Calibration Blank	SLE0270-CCB1	CubeData_05182023@1024b-125	NA	05/18/23 04:52
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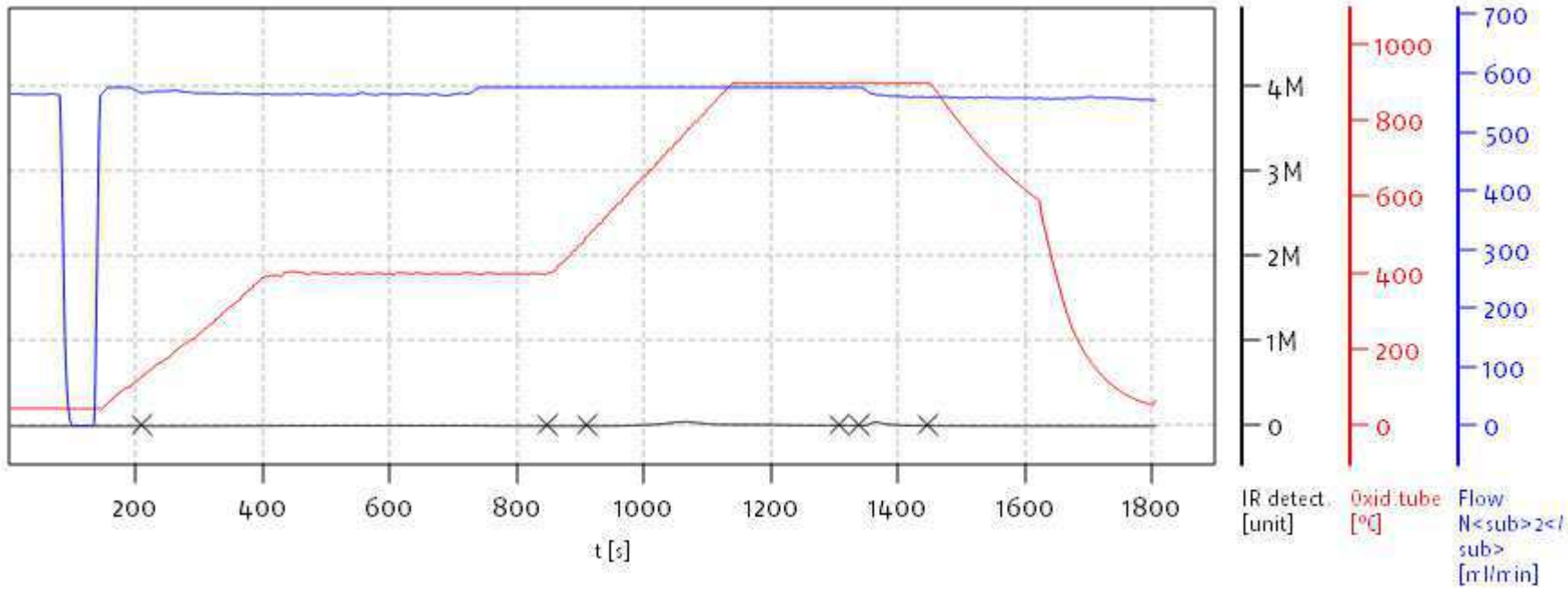
Cal Standard	SLE0270-CALN	CubeData_05182023@1024b-123	NA	05/18/23 09:49
Cal Standard	SLE0270-CALO	CubeData_05182023@1024b-124	NA	05/18/23 09:49

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
1	1	BLANK	1.00		CARBON	5/ 17/2023 11:46 AM	bl	0.000	83 718	0.000	0.000	65 731	251 400	0.000	0.000	1.0000	1.0000



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Date: Thu May 18 09:43:39 2023

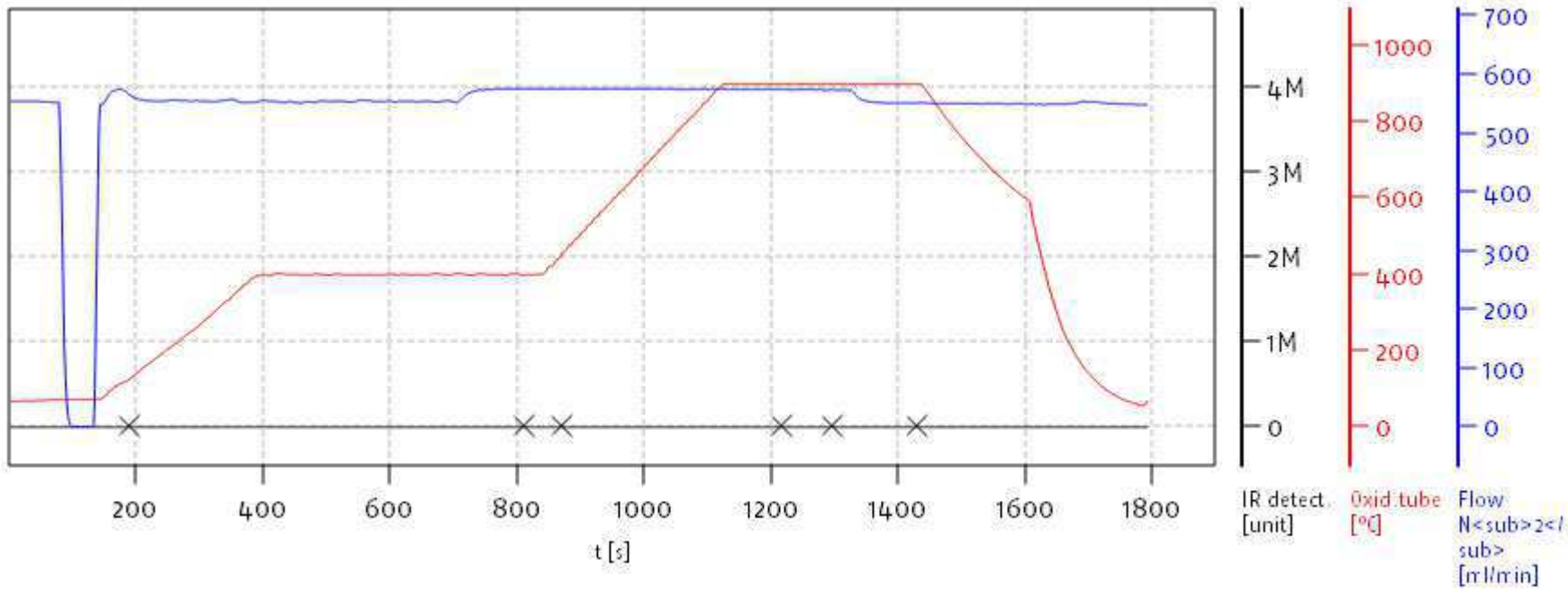
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
2	2	BLANK	1.00		CARBON	5/ 17/2023 12:16 PM	bl	0.000	3 043	0.000	0.000	273	1	0.000	0.000	1.0000	1.0000



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Date: Thu May 18 09:43:39 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
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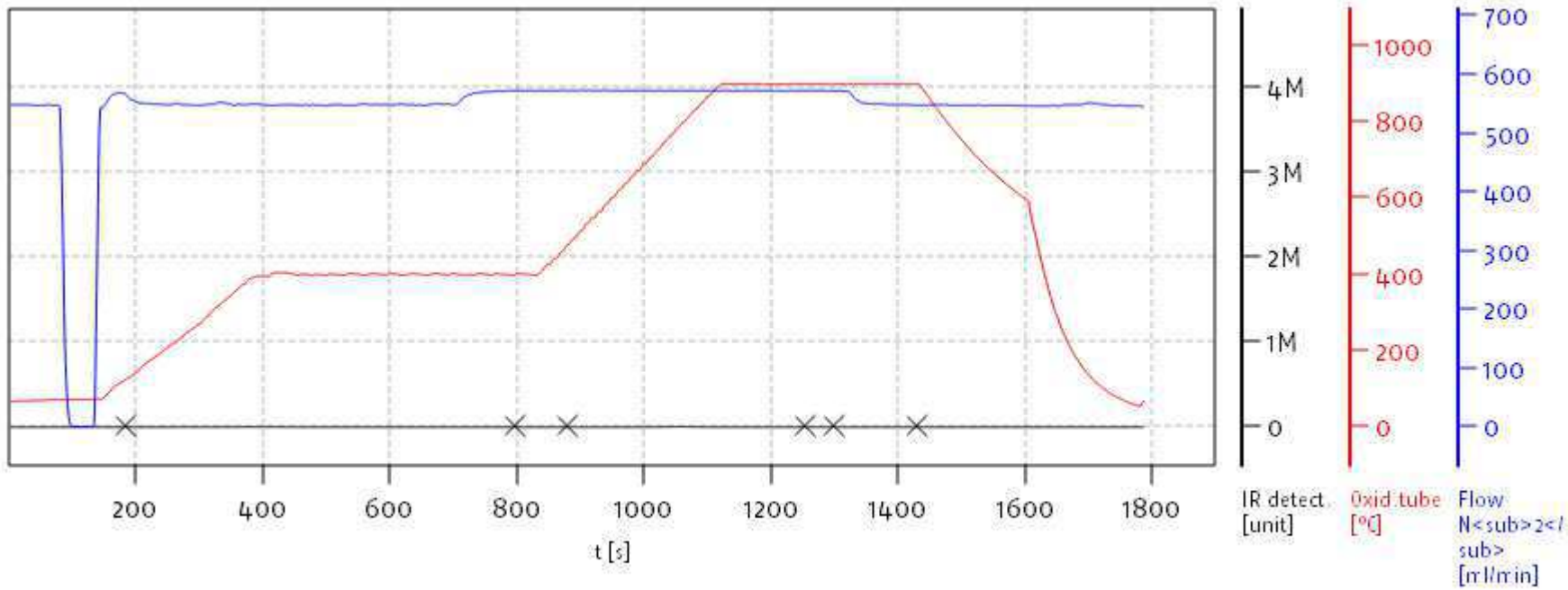
Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
3	3	SLE0270-CAL1	200.00	0.0025	CARBON	5/17/2023 12:46 PM	bl,C2u	0.014	12 167	0.024	0.002	431	10 396	0.012	0.010	1.0000	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
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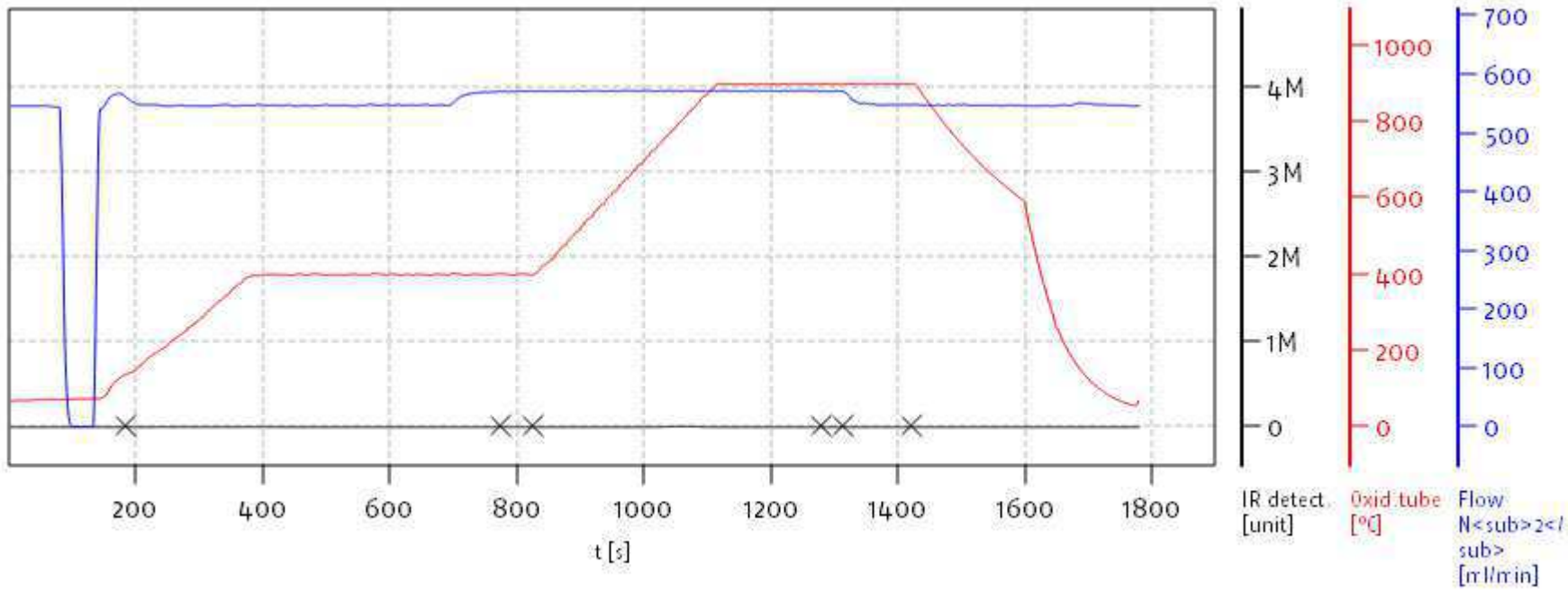
Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
4	4	SLE0270-CAL2	200.00	0.0050	CARBON	5/17/2023 1:16 PM	bl,C2u	0.013	10 893	0.029	0.002	141	18 320	0.011	0.017	1.0000	1.0000



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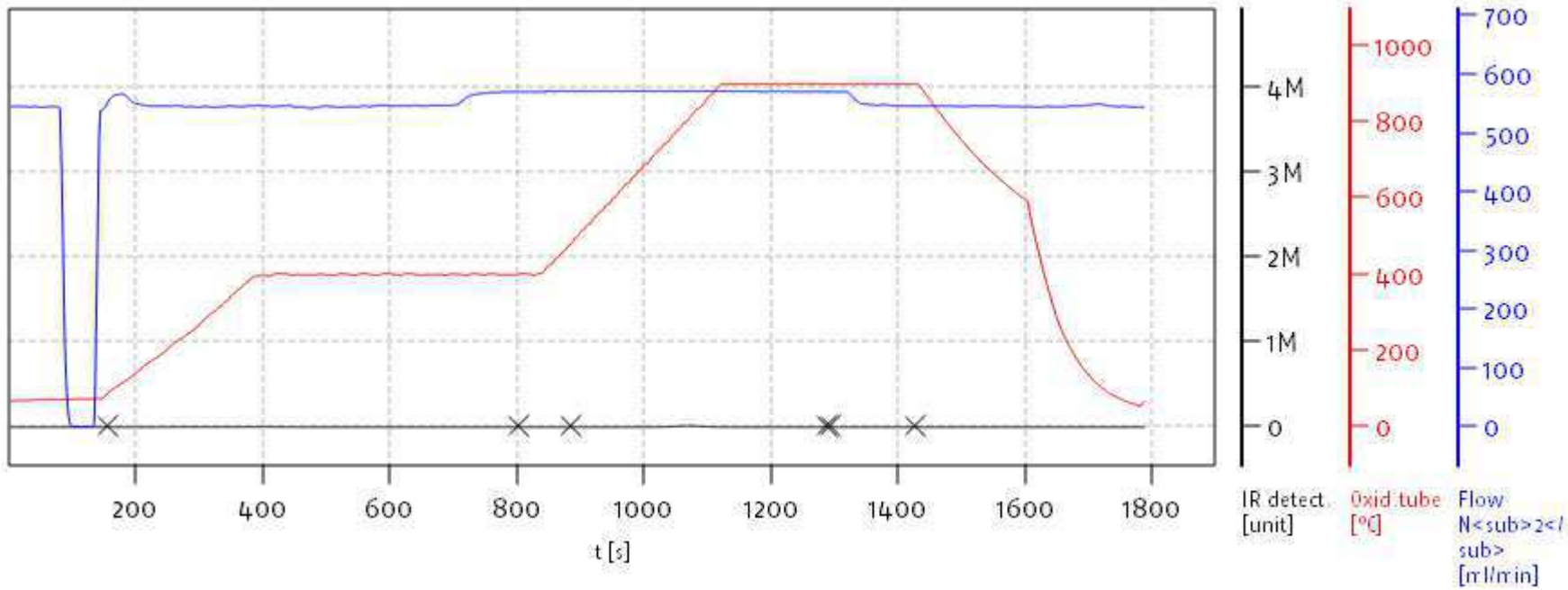
Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
5	5	SLE0270-CAL3	200.00	0.0070	CARBON	5/17/2023 1:46 PM	bl,C2u	0.018	16 667	0.043	0.002	387	29 873	0.015	0.026	1.0000	1.0000



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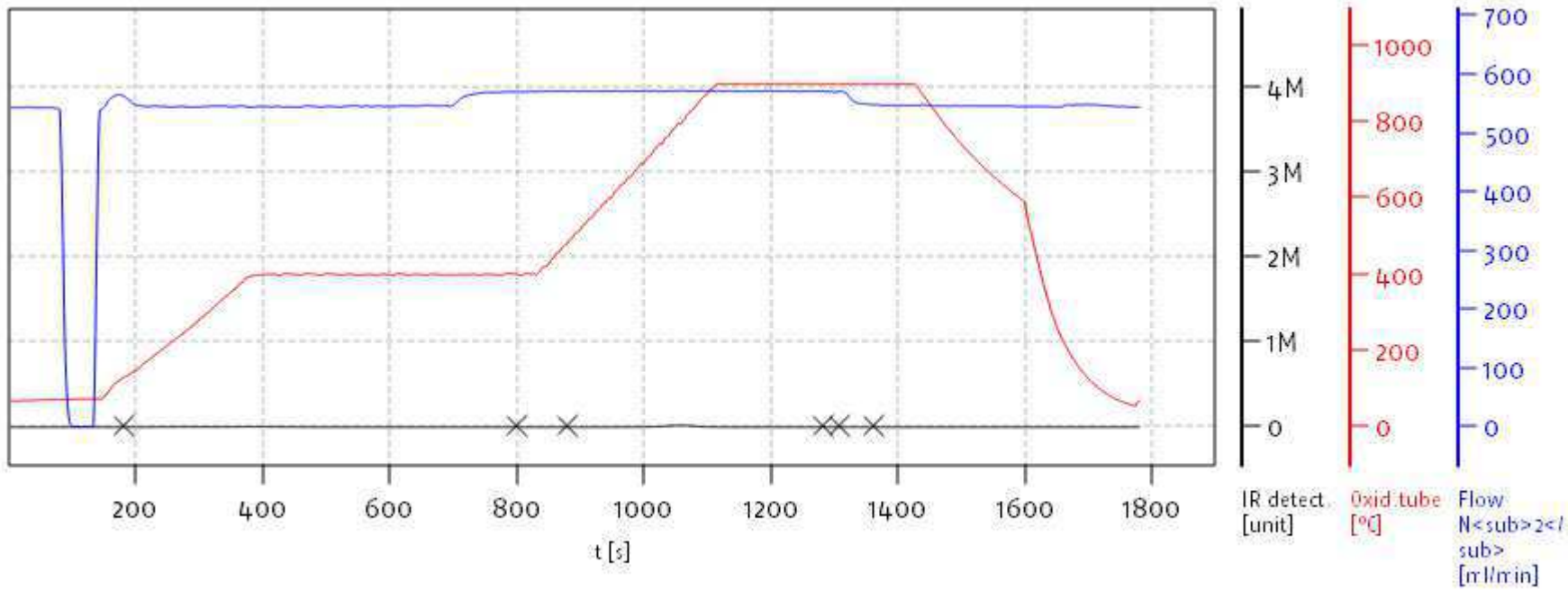
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
6	6	SLE0270-CAL4	200.00	0.0100	CARBON	5/17/2023 2:16 PM	bl,C2u	0.024	24 980	0.062	0.002	130	45 873	0.022	0.038	1.0000	1.0000



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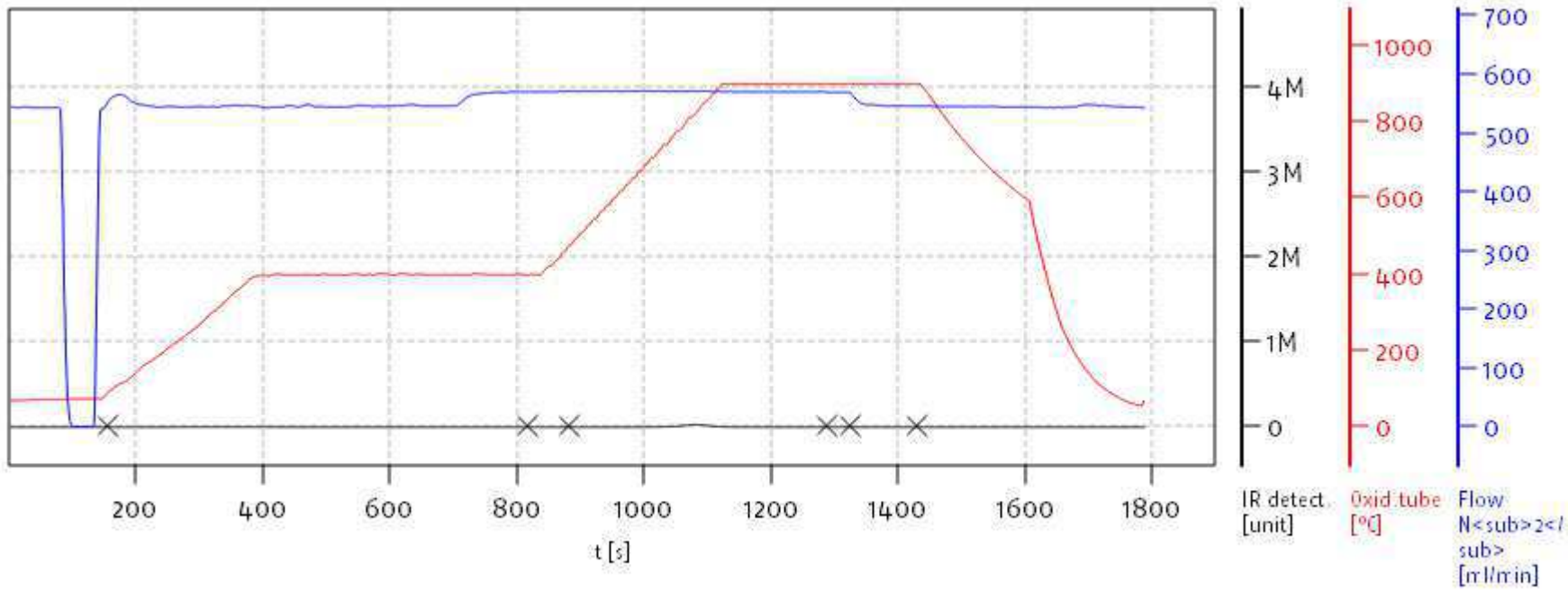
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
7	7	SLE0270-CAL5	200.00	0.0150	CARBON	5/17/2023 2:47 PM	bl,C2u	0.014	12 413	0.065	0.002	539	61 573	0.012	0.051	1.0000	1.0000



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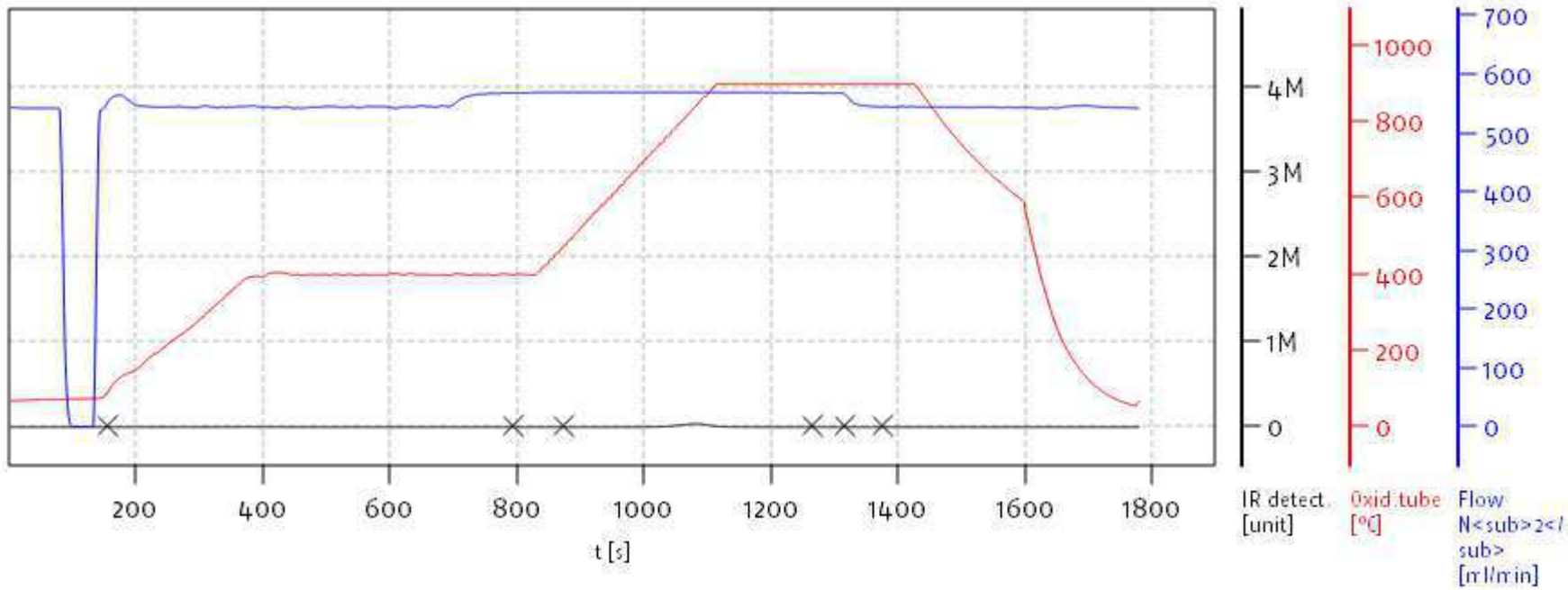
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
8	8	SLE0270-CAL6	200.00	0.0200	CARBON	5/17/2023 3:17 PM	bl,C1u,C2u	0.011	7 999	0.079	0.002	170	84 086	0.008	0.068	1.0000	1.0000



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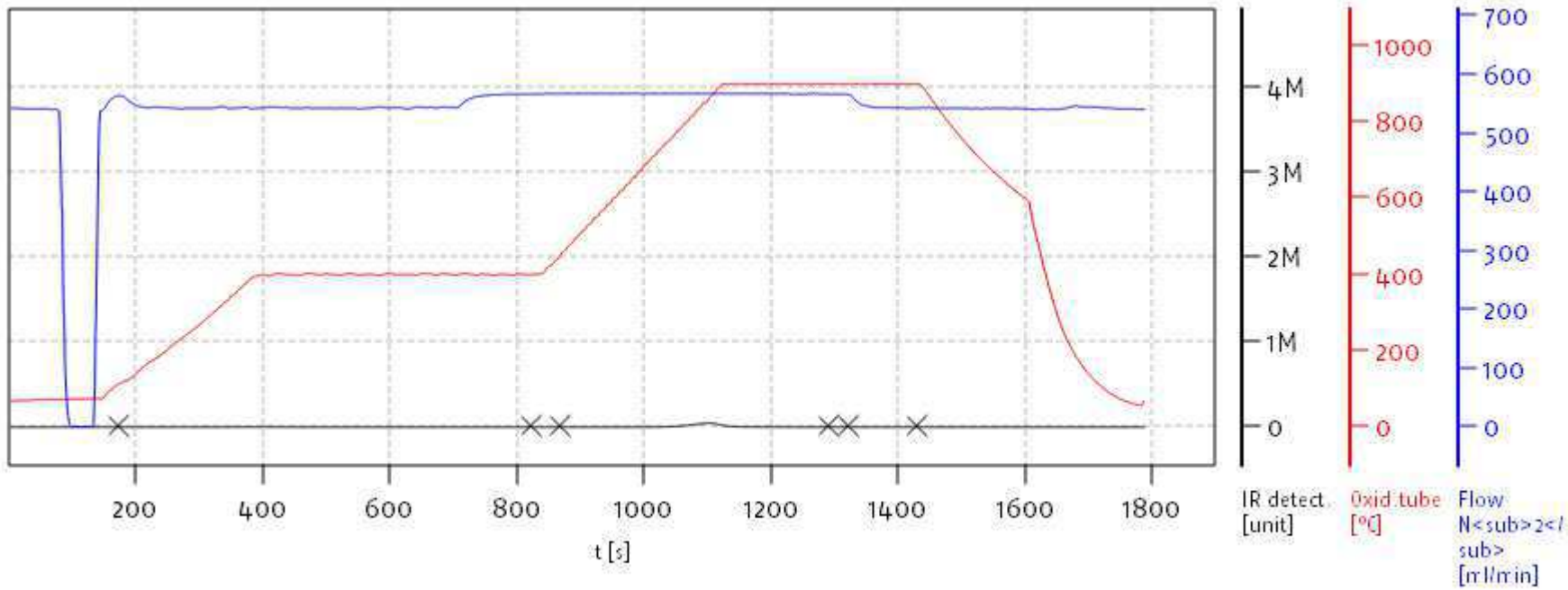
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
9	9	SLE0270-CAL7	200.00	0.0250	CARBON	5/17/2023 3:47 PM	bl,C1u,C2u	0.011	7 612	0.097	0.003	1 386	105 588	0.008	0.085	1.0000	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
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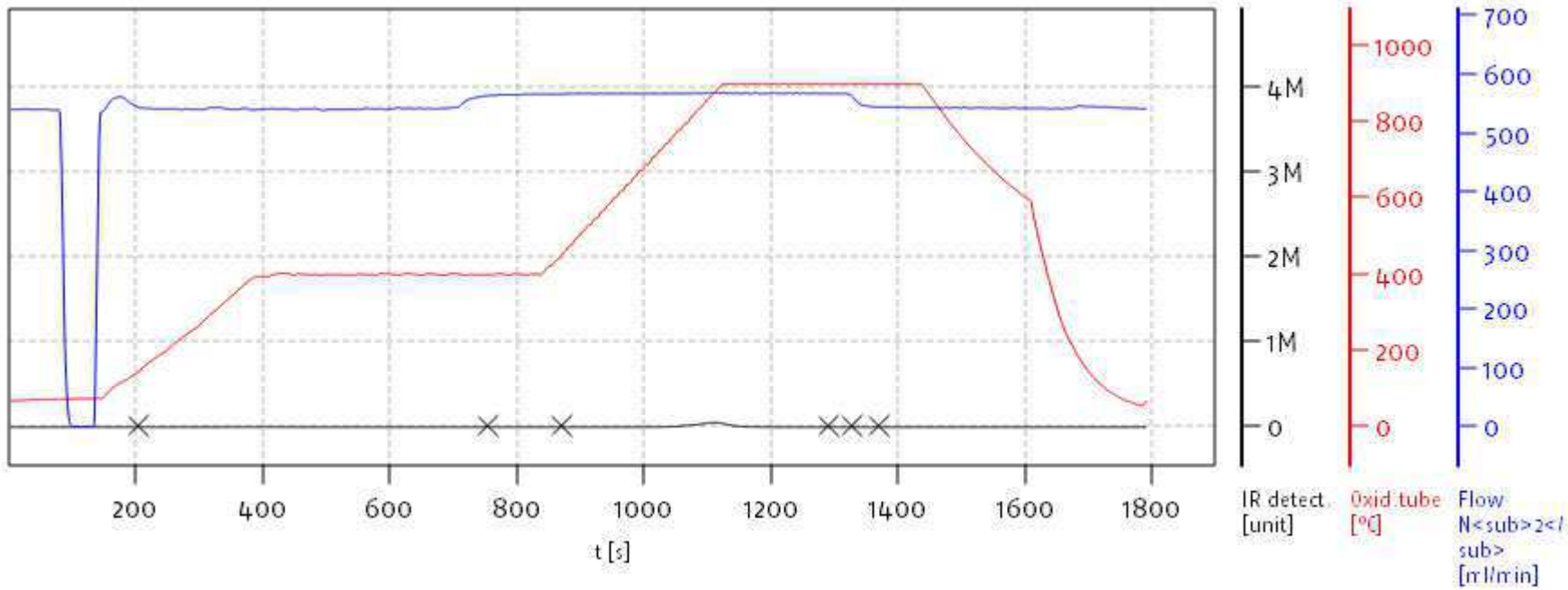
Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
10	10	SLE0270-CAL8	200.00	0.0300	CARBON	5/17/2023 4:17 PM	bl,C1u,C2u	0.008	5 428	0.109	0.002	61	124 731	0.006	0.100	1.0000	1.0000



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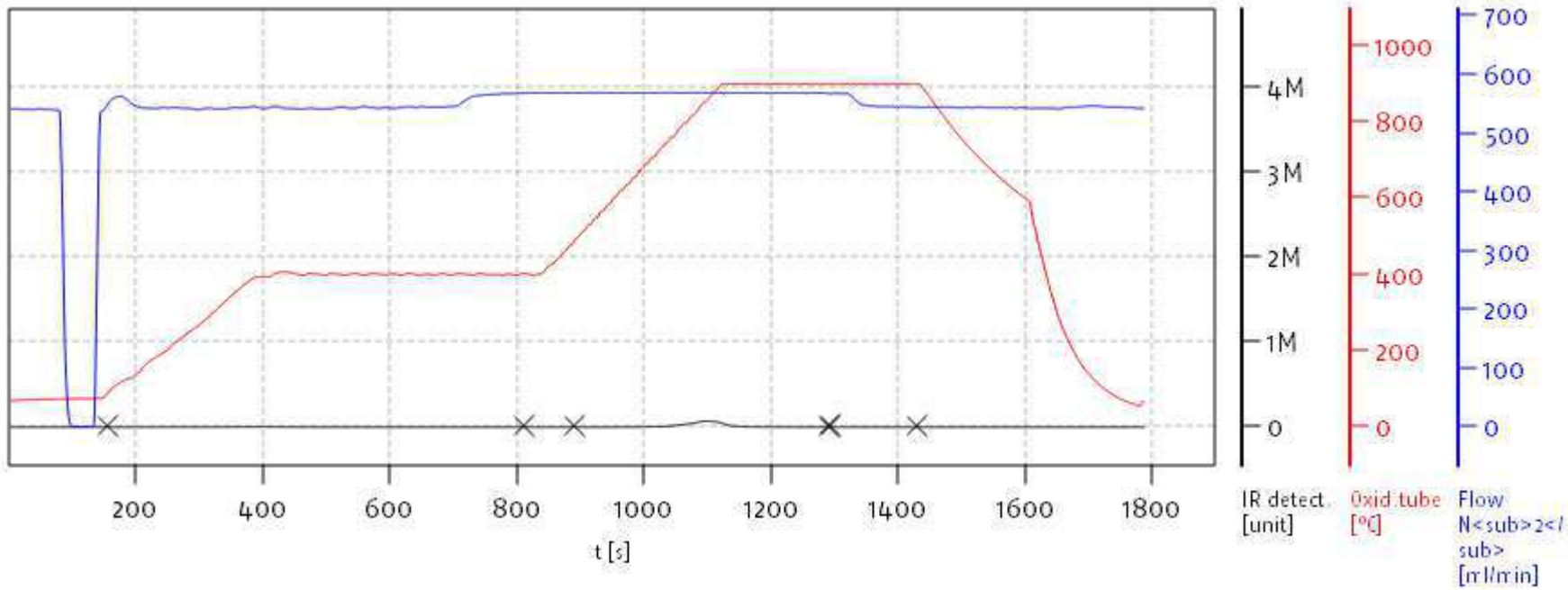
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
11	11	SLE0270-CAL9	200.00	0.0400	CARBON	5/17/2023 4:47 PM	bl,C2u	0.019	17 233	0.167	0.003	1 274	185 567	0.016	0.148	1.0000	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
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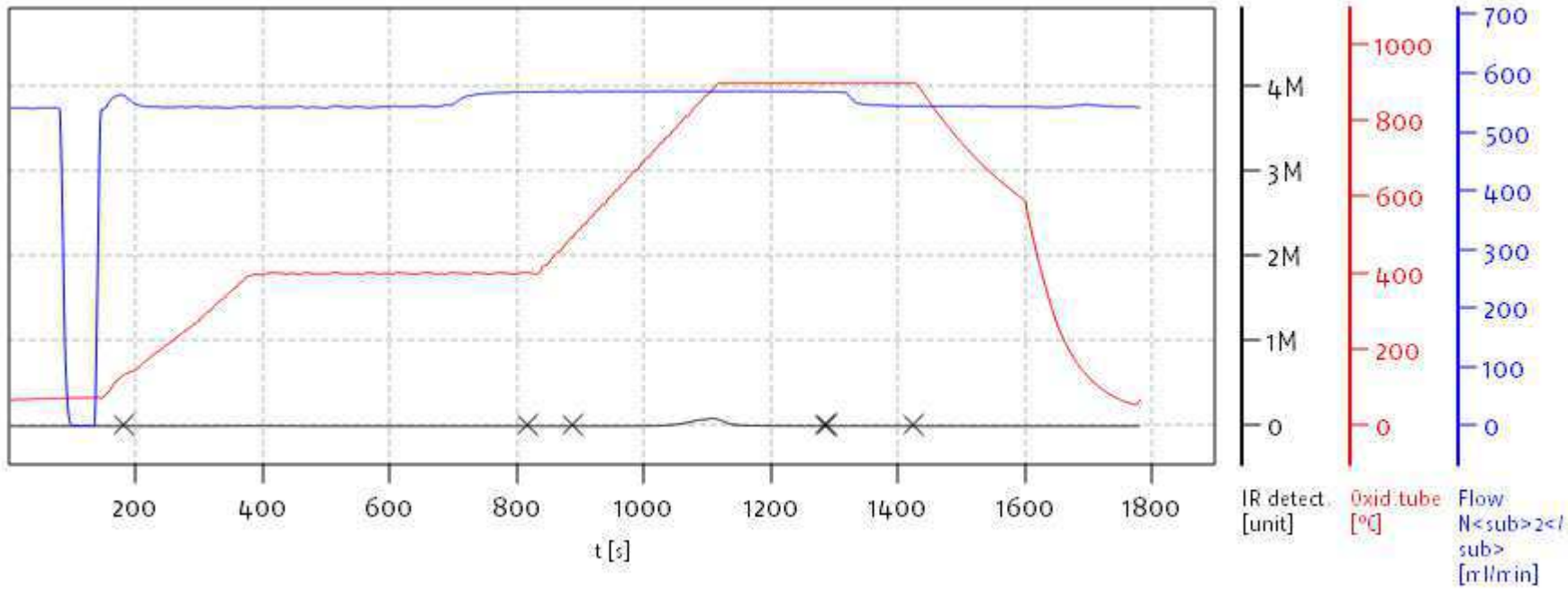
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
12	12	SLE0270-CALA	200.00	0.0500	CARBON	5/17/2023 5:17 PM	bl,C2u	0.018	11 766	0.202	0.007	6 123	230 855	0.011	0.184	1.0000	1.0000



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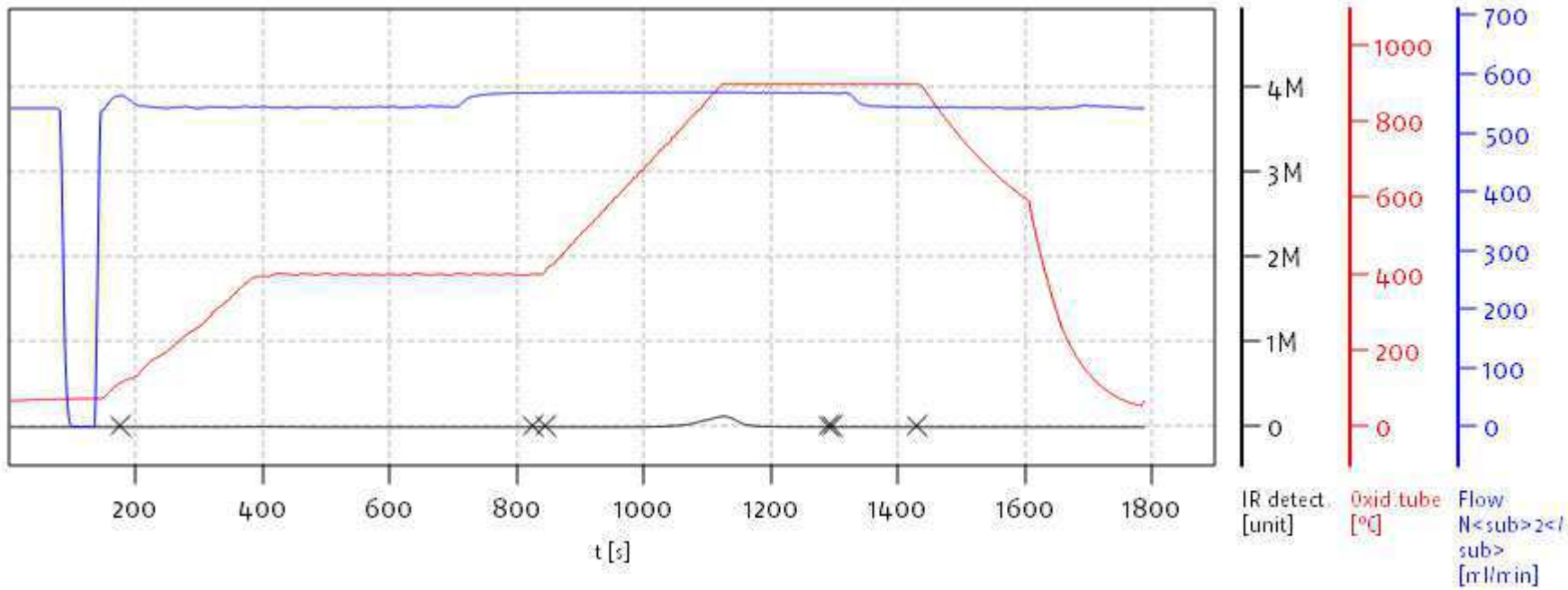
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
13	13	SLE0270-CALB	200.00	0.0040	CARBON	5/17/2023 5:47 PM	bl,C2u	0.022	18 635	0.291	0.005	3 969	339 170	0.017	0.269	1.0000	1.0000



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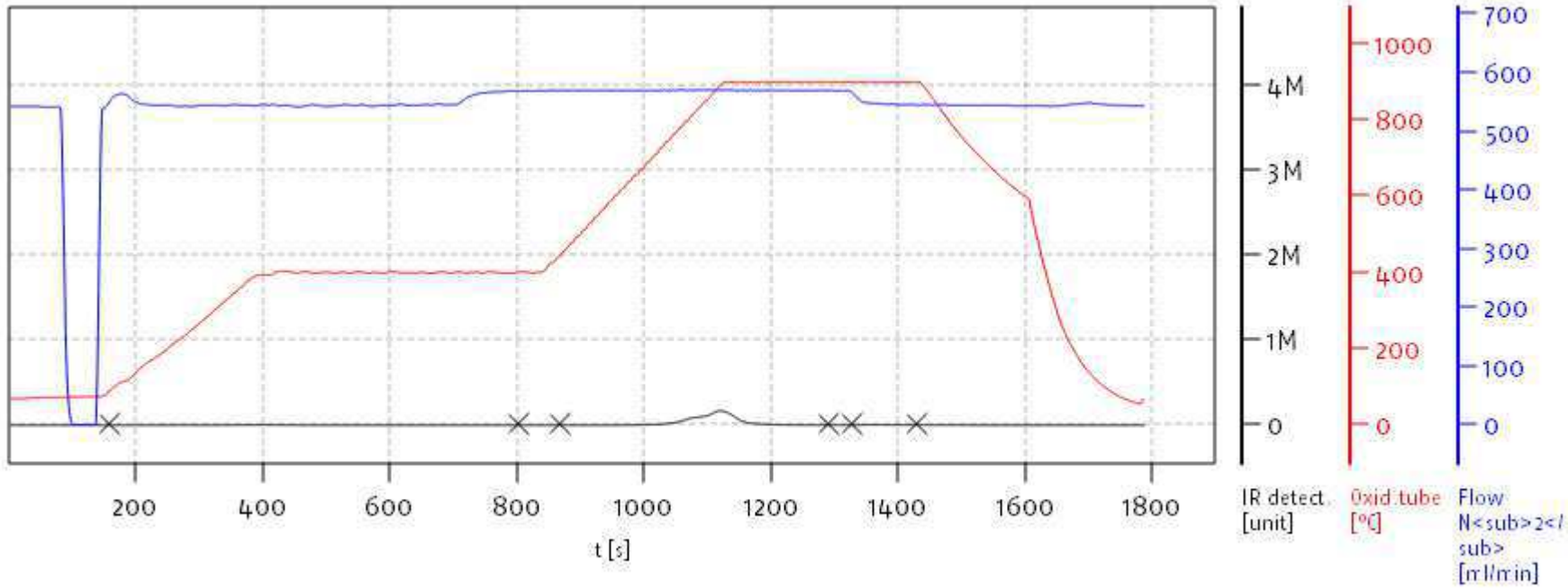
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
14	14	SLE0270-CALC	200.00	0.0050	CARBON	5/17/2023 6:18 PM	bl	0.026	14 893	0.405	0.012	12 639	478 044	0.014	0.379	1.0000	1.0000



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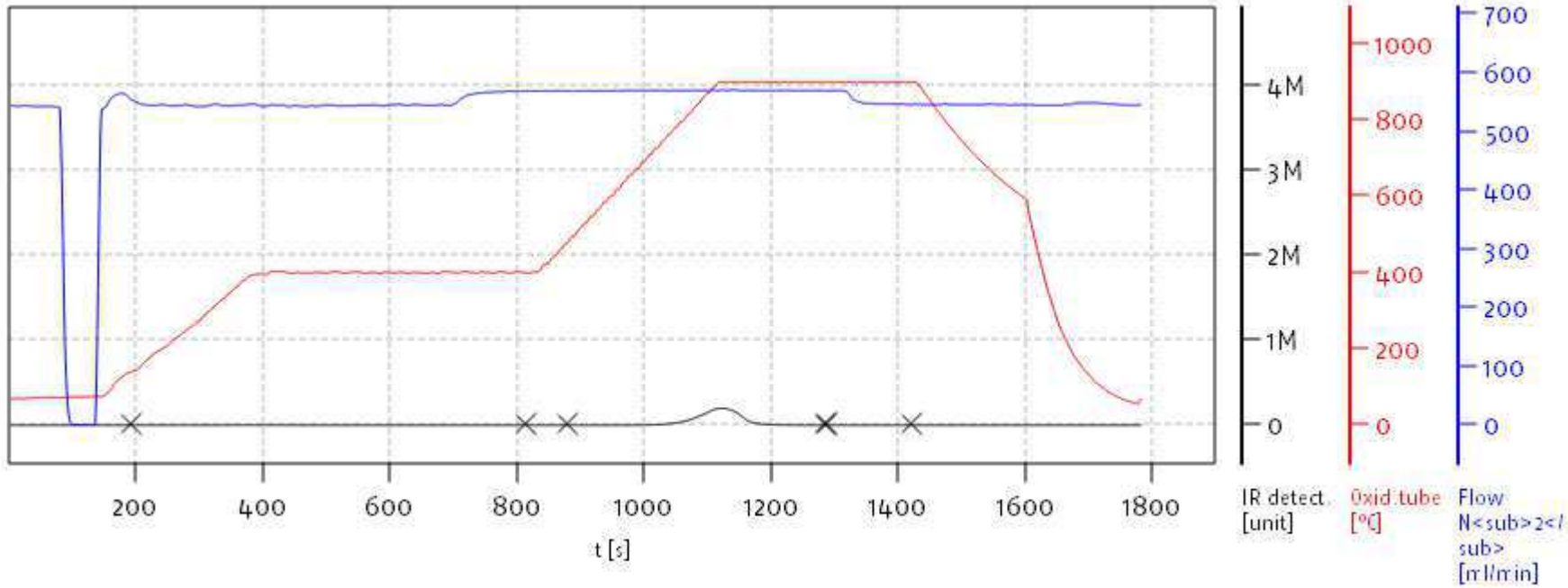
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
15	15	SLE0270-CALD	200.00	0.0070	CARBON	5/17/2023 6:48 PM	bl,C1u,C2u	0.010	6 787	0.465	0.002	420	574 876	0.007	0.455	1.0000	1.0000



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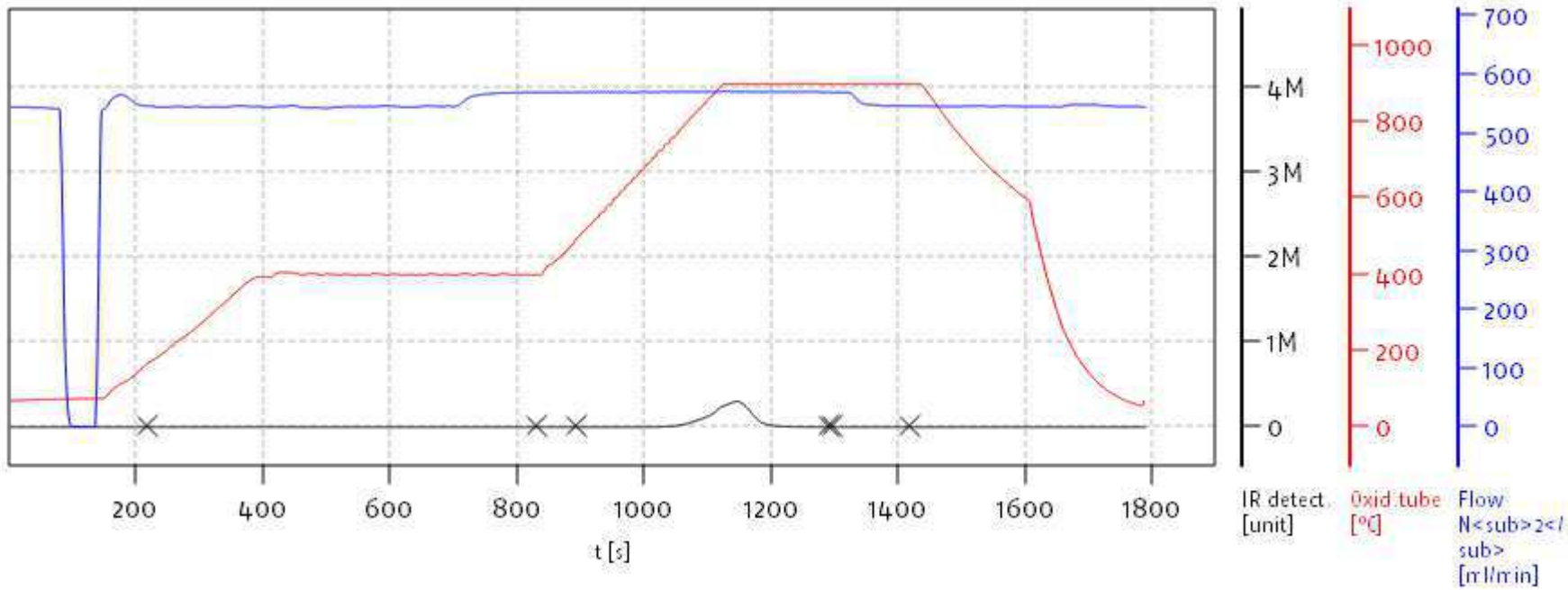
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
16	16	SLE0270-CALE	200.00	0.0100	CARBON	5/17/2023 7:18 PM	bl,C1u,C2u	0.008	4 408	0.667	0.003	771	832 670	0.006	0.658	1.0000	1.0000



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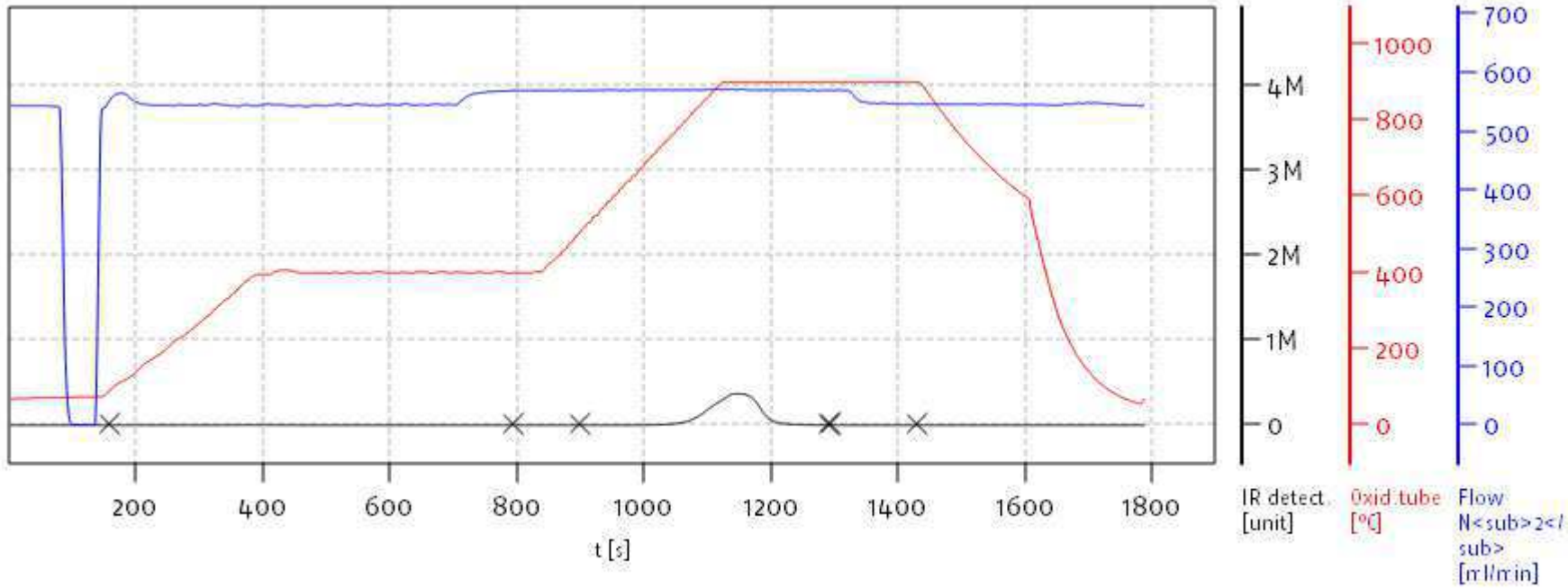
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
17	17	SLE0270-CALF	200.00	0.0150	CARBON	5/17/2023 7:48 PM	bl,C1u,C2u	0.012	8 494	0.984	0.003	1 464	1 230 304	0.009	0.972	1.0000	1.0000



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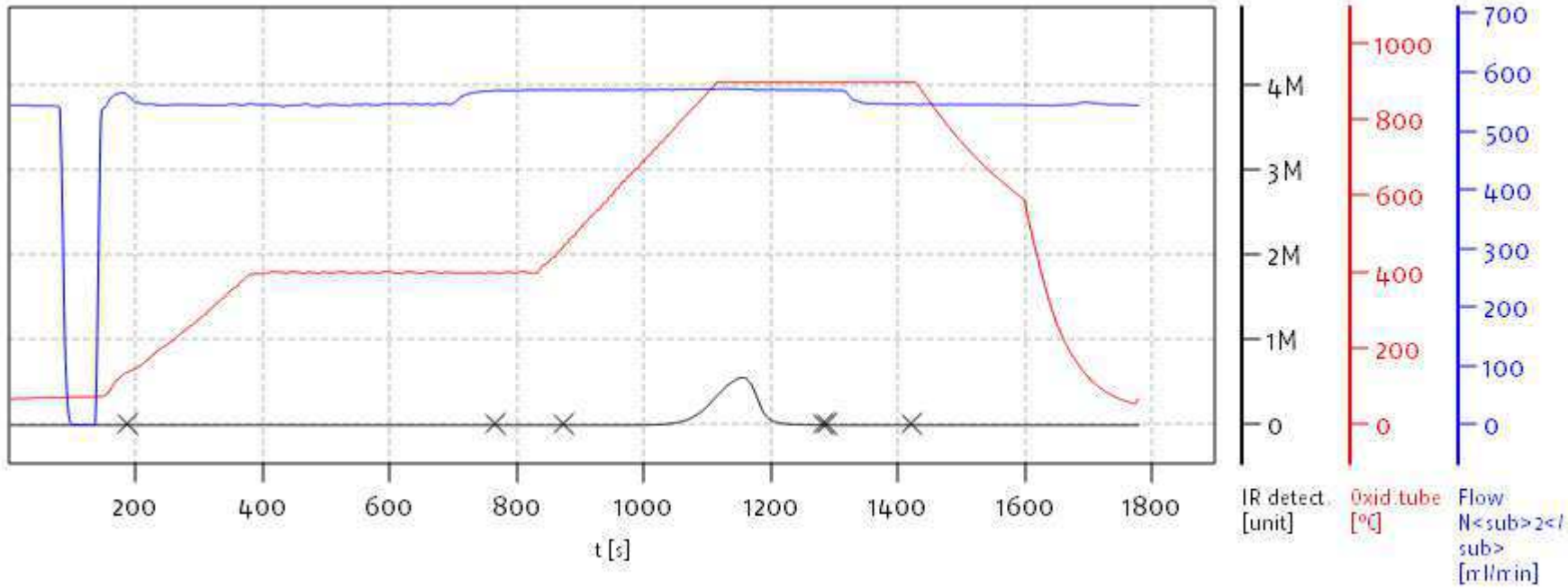
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
18	18	SLE0270-CALG	200.00	0.0200	CARBON	5/17/2023 8:18 PM	bl,C1u,C2u	0.010	5 359	1.331	0.004	1 864	1 673 425	0.006	1.321	1.0000	1.0000



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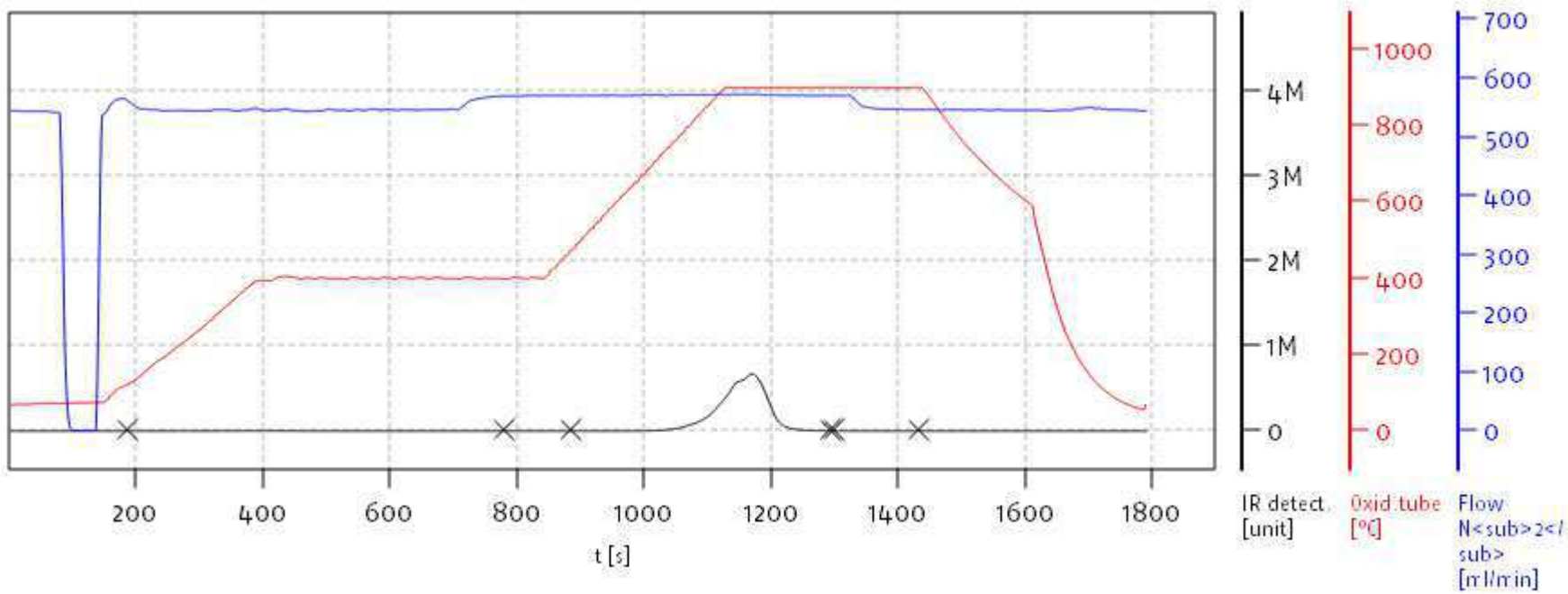
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
19	19	SLE0270-CALH	200.00	0.0250	CARBON	5/17/2023 8:48 PM	bl,C2u	0.015	11 407	1.659	0.004	2 280	2 083 004	0.011	1.644	1.0000	1.0000



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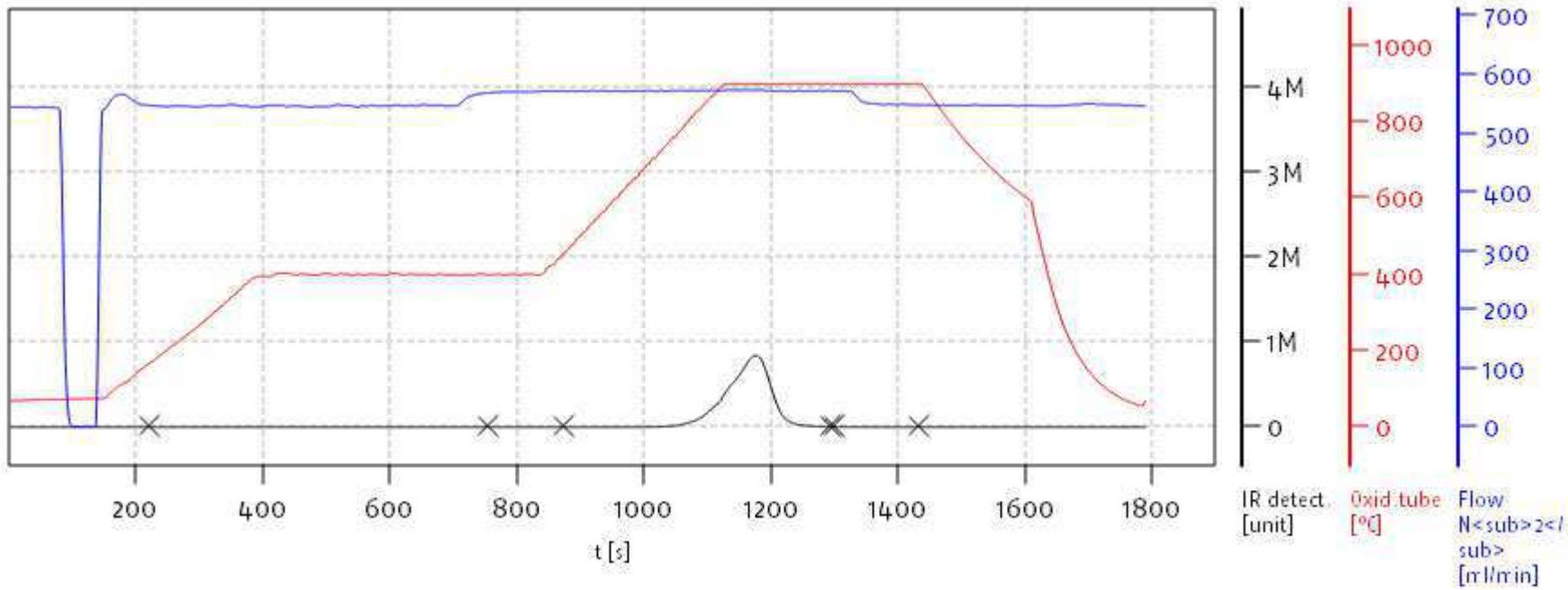
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
20	20	SLE0270-CALI	200.00	0.0300	CARBON	5/17/2023 9:19 PM	bl,C1u,C2u	0.009	2 781	1.981	0.005	3 895	2 498 427	0.004	1.971	1.0000	1.0000



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Date: Thu May 18 09:43:39 2023

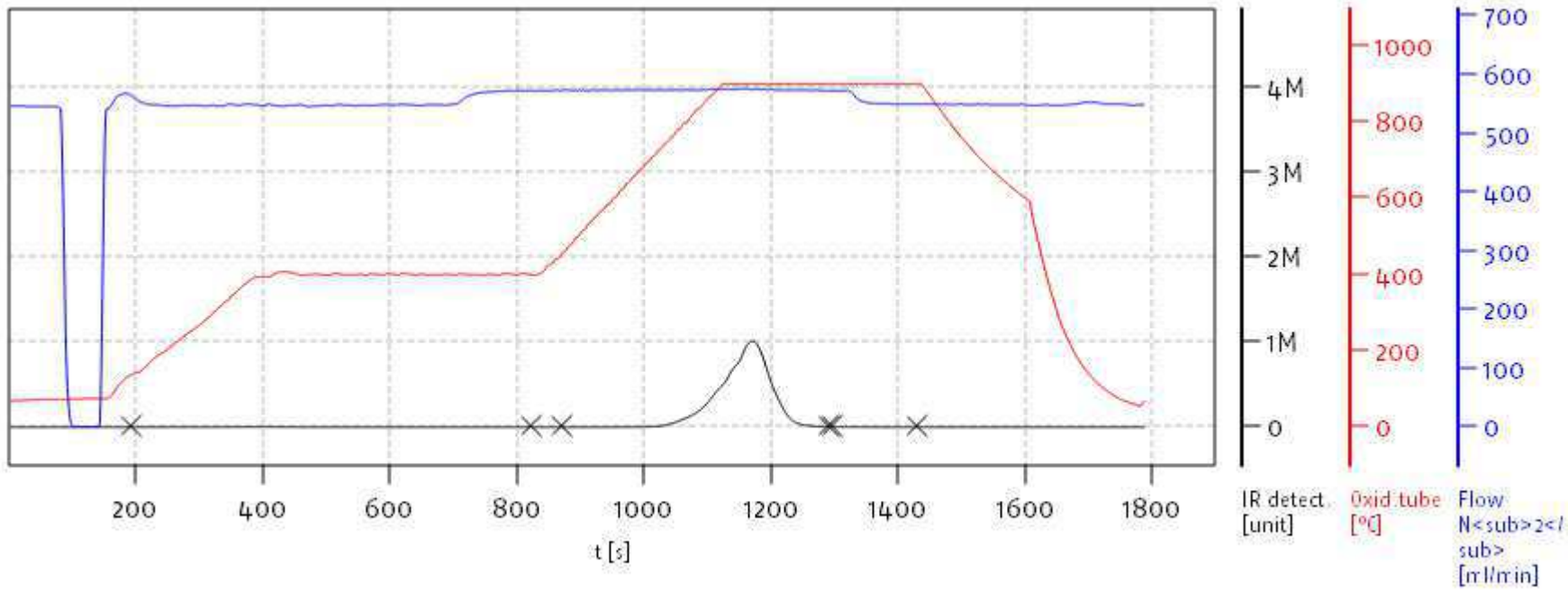
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
21	21	SLE0270-CALJ	200.00	0.0400	CARBON	5/17/2023 9:49 PM	bl,C2u	0.018	13 295	2.629	0.006	4 807	3 309 588	0.013	2.611	1.0000	1.0000



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Date: Thu May 18 09:43:39 2023

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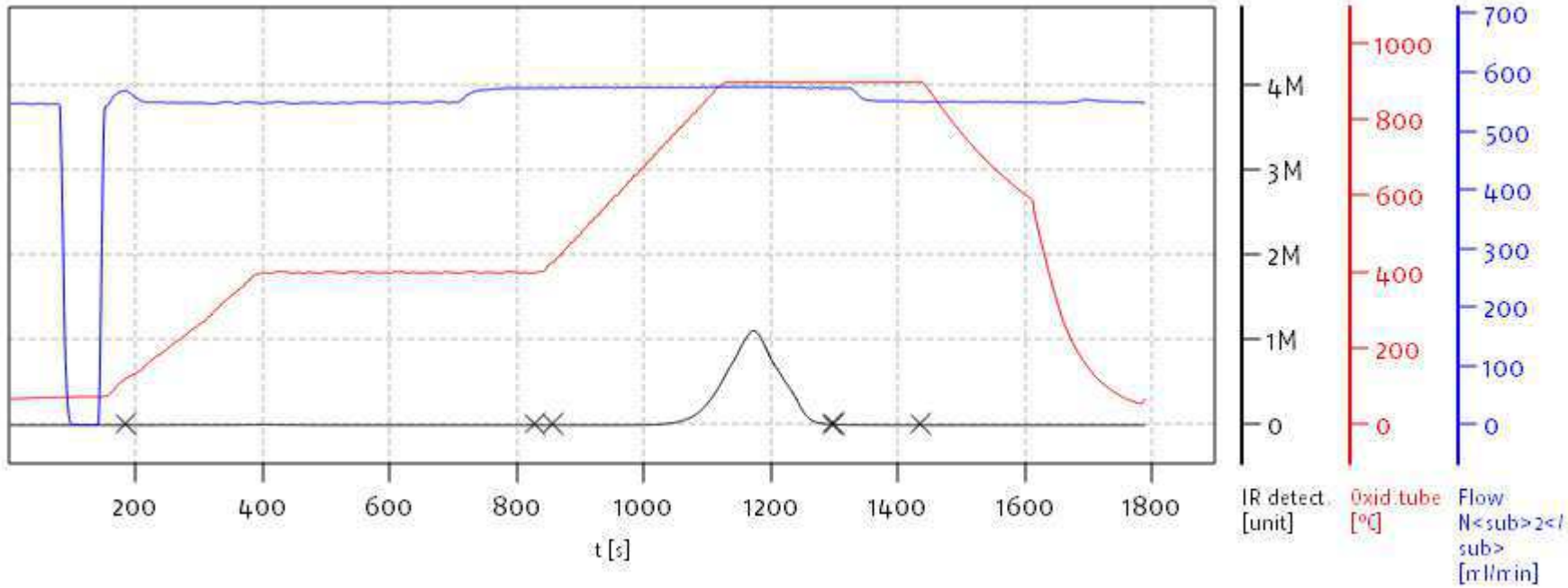
Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
22	22	SLE0270-CALK	200.00	0.0500	CARBON	5/17/2023 10:19 PM	bl	0.031	25 022	3.285	0.009	9 148	4 126 050	0.022	3.254	1.0000	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

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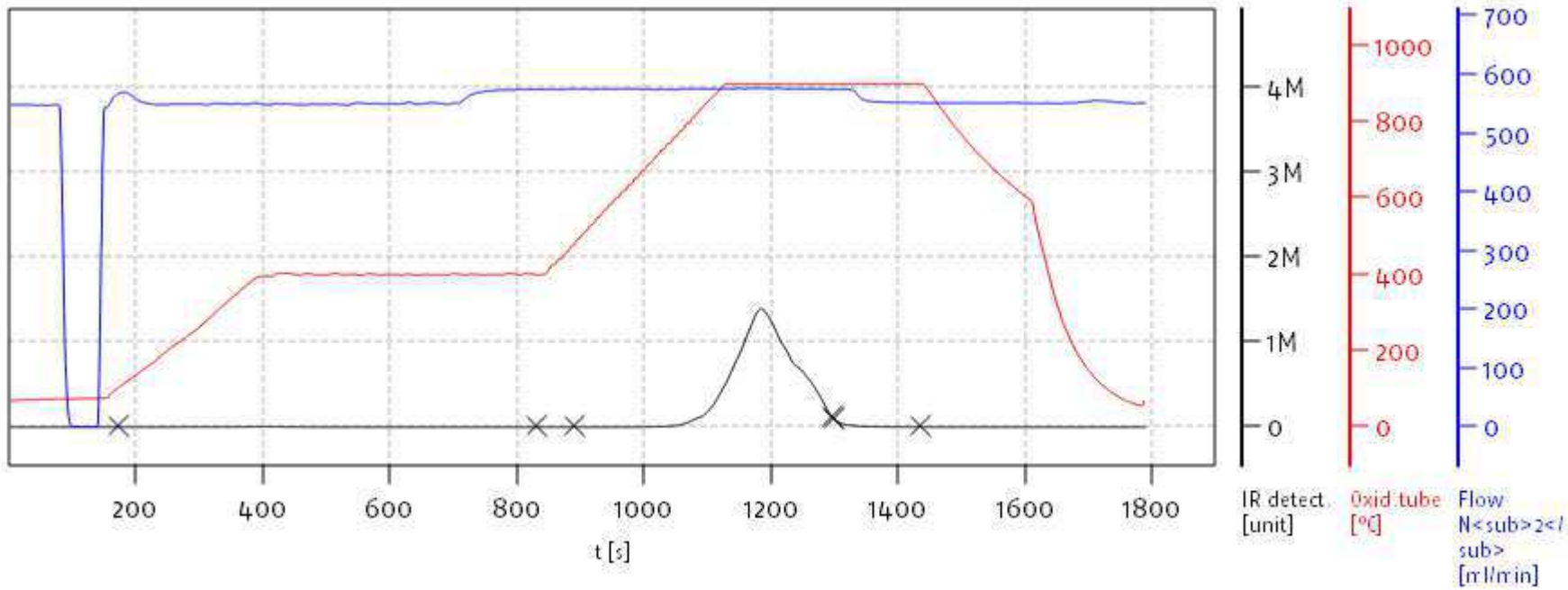
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
23	23	SLE0270-CALL	200.00	0.0700	CARBON	5/17/2023 10:49 PM	bl	0.069	21 598	4.597	0.050	60 794	5 741 652	0.019	4.528	1.0000	1.0000



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Serial No: 0300.181017
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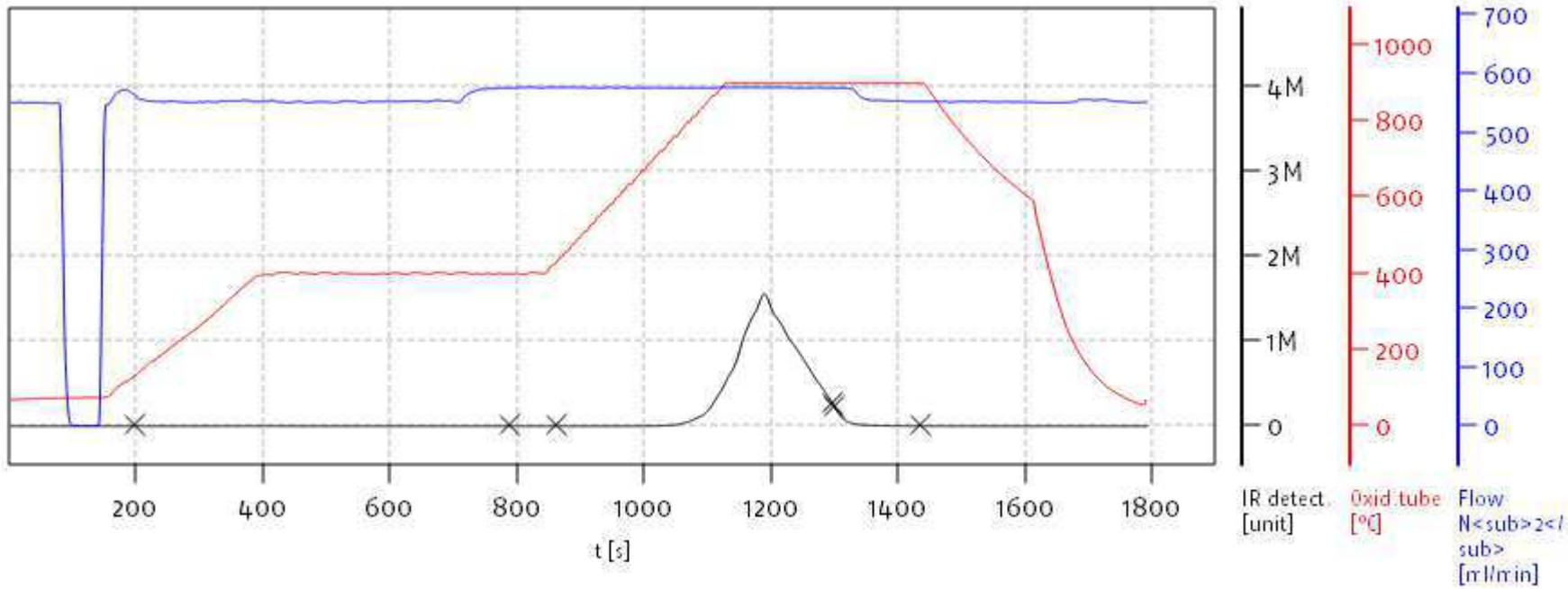
Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
24	24	SLE0270-CALM	200.00	0.0800	CARBON	5/17/2023 11:19 PM	bl,C1u	0.112	5 408	5.212	0.106	131 494	6 467 914	0.006	5.100	1.0000	1.0000



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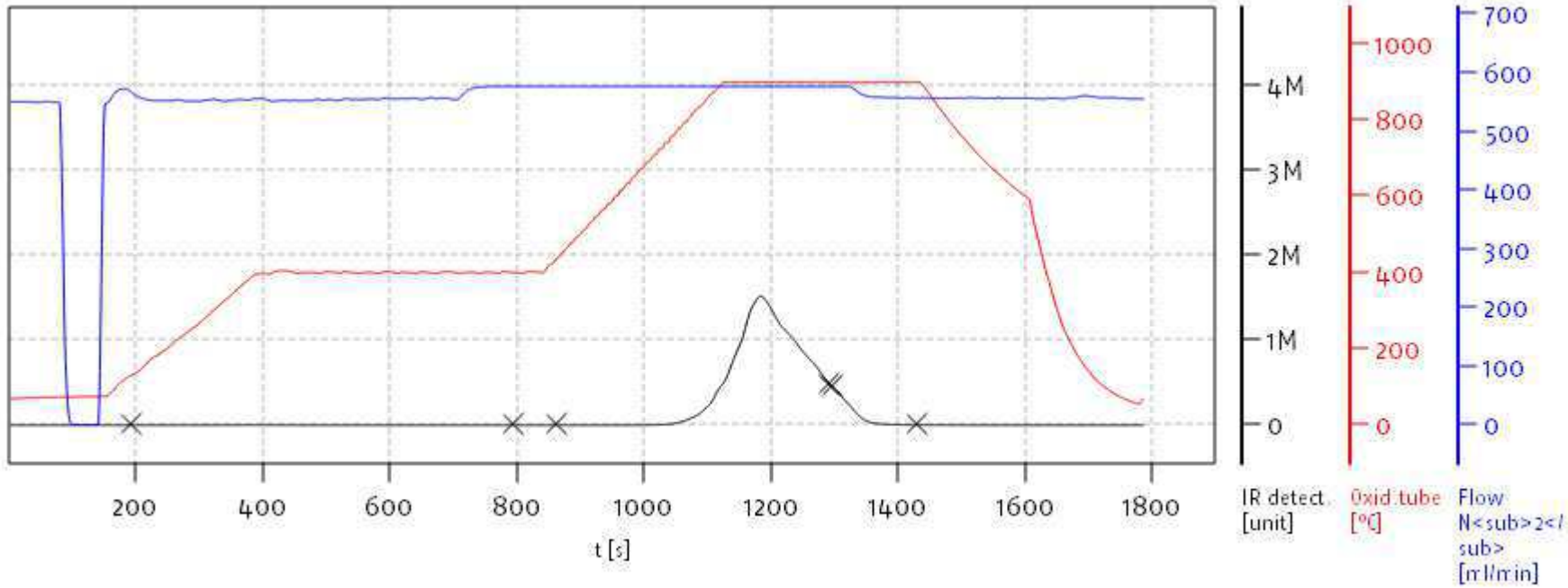
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
25	25	SLE0270-CALN	200.00	0.0900	CARBON	5/17/2023 11:50 PM	bl	0.408	8 745	5.832	0.399	503 842	6 879 212	0.009	5.424	1.0000	1.0000



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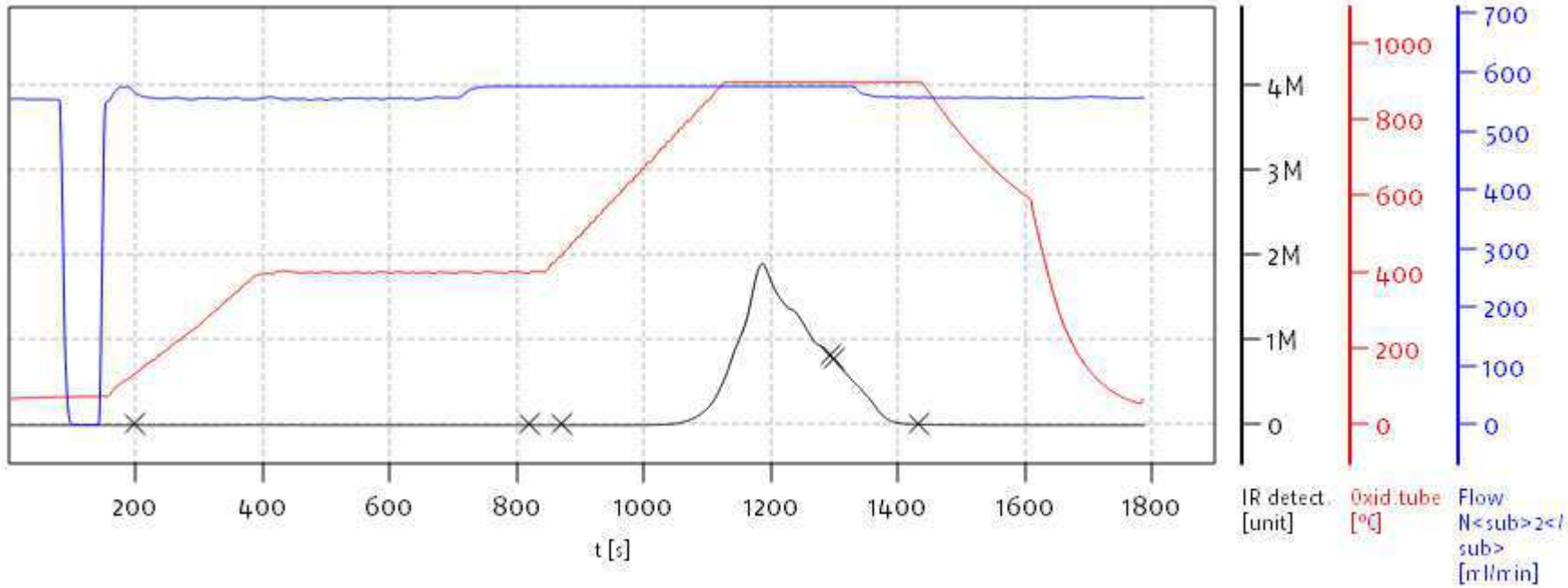
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
26	26	SLE0270-CALO	200.00	0.1200	CARBON	5/18/2023 12:20 AM	bl,C1u	1.074	6 993	7.759	1.066	1 350 231	8 478 912	0.008	6.685	1.0000	1.0000



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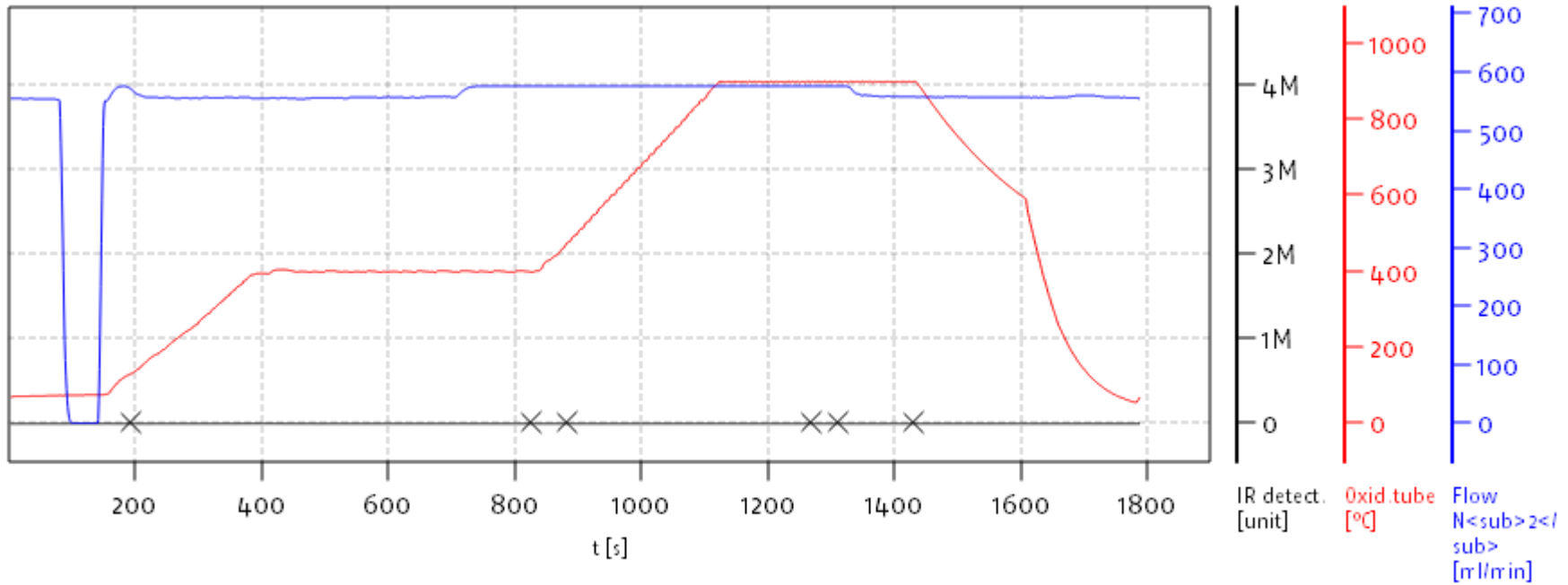
Serial No: 0300.181017
Mode CCC

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
27	27	BLANK	1.00		CARBON	5/ 18/2023 12:50 AM	bl	0.000	5 379	0.000	0.000	0	959	0.000	0.000	1.0000	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
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Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

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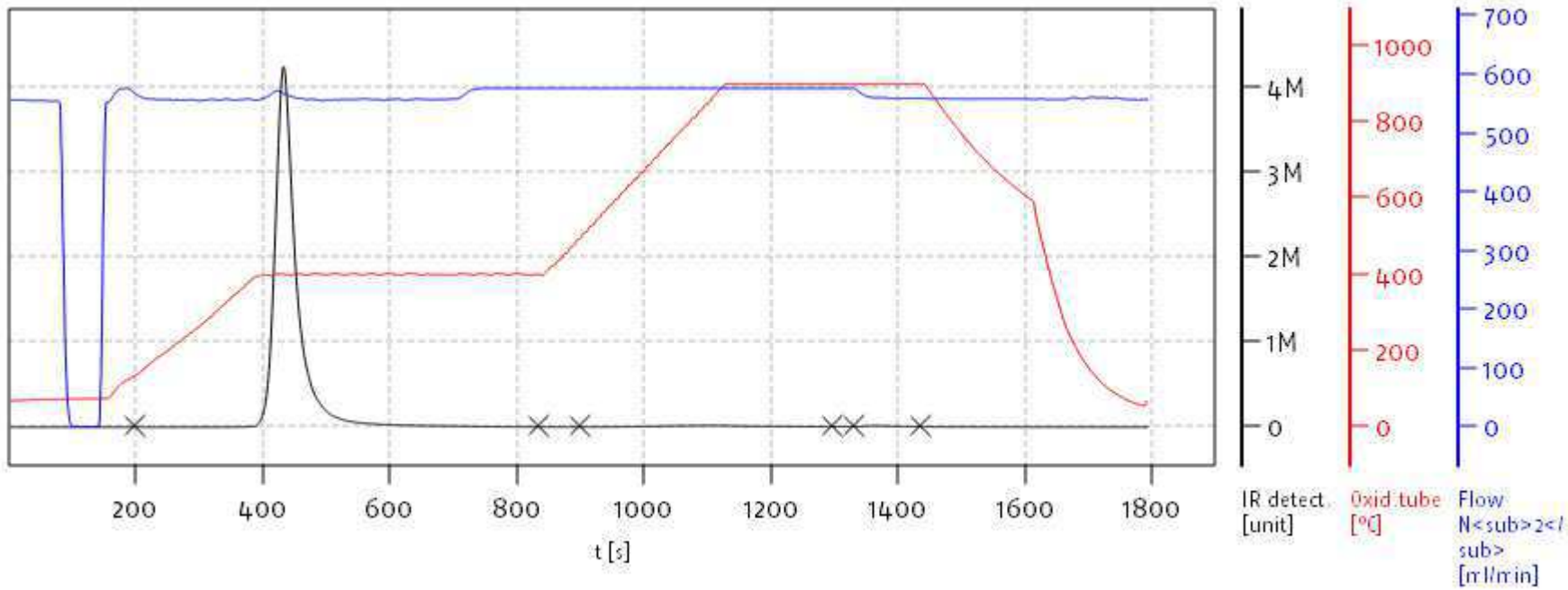
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
28	28	Dfactor	21.70		CARBON	5/18/2023 1:20 AM	bl	44.736	6 218 209	45.755	0.291	37 376	137 647	44.446	1.019	0.9835	1.0000



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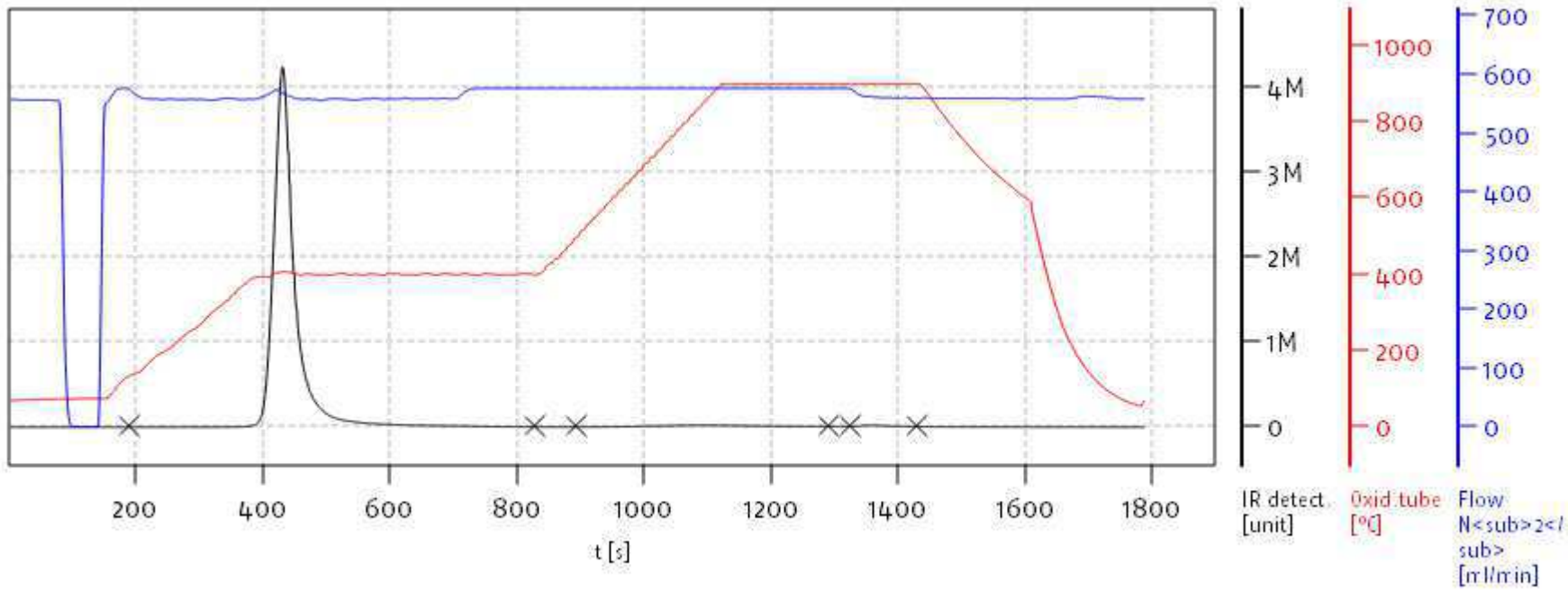
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
29	29	Dfactor	21.20		CARBON	5/18/2023 1:50 AM	bl	44.824	6 030 884	46.116	0.378	48 254	171 095	44.446	1.292	0.9907	1.0000



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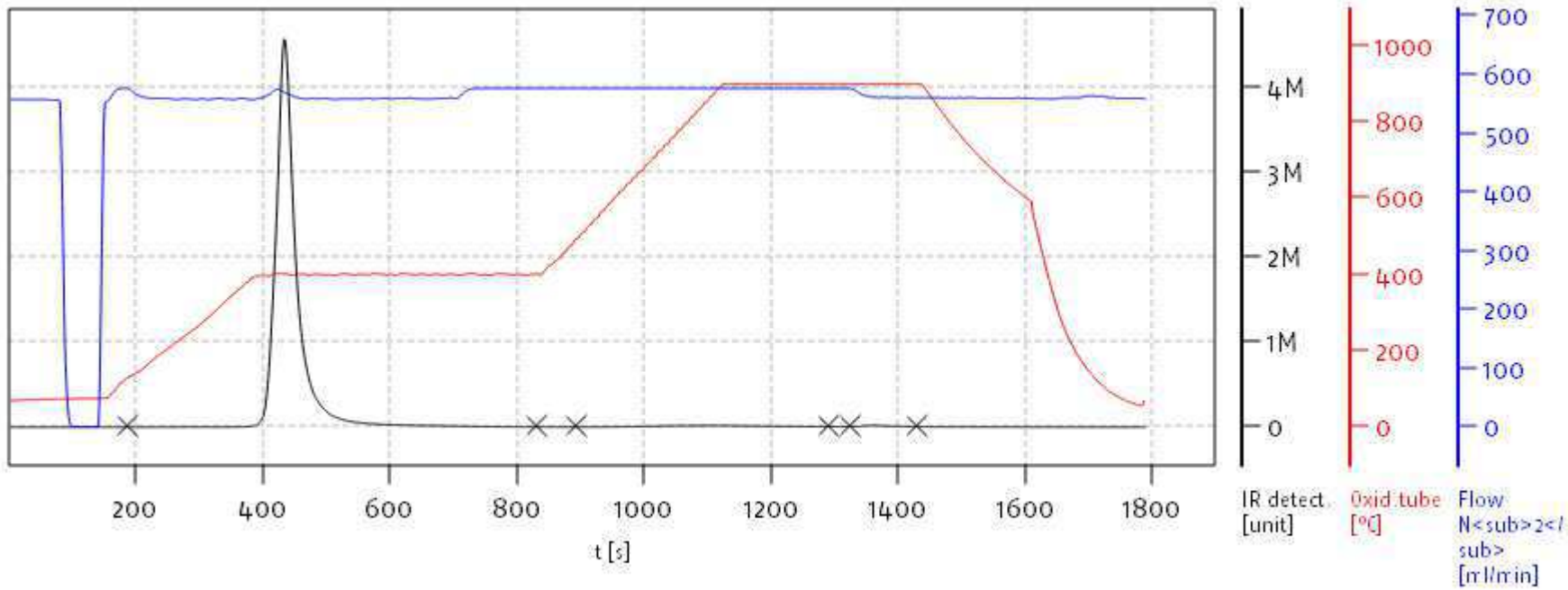
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
30	30	SLE0270-ICV1	22.30		CARBON	5/18/2023 2:21 AM	bl	44.949	6 392 325	46.022	0.327	43 597	149 127	44.622	1.073	0.9871	1.0000



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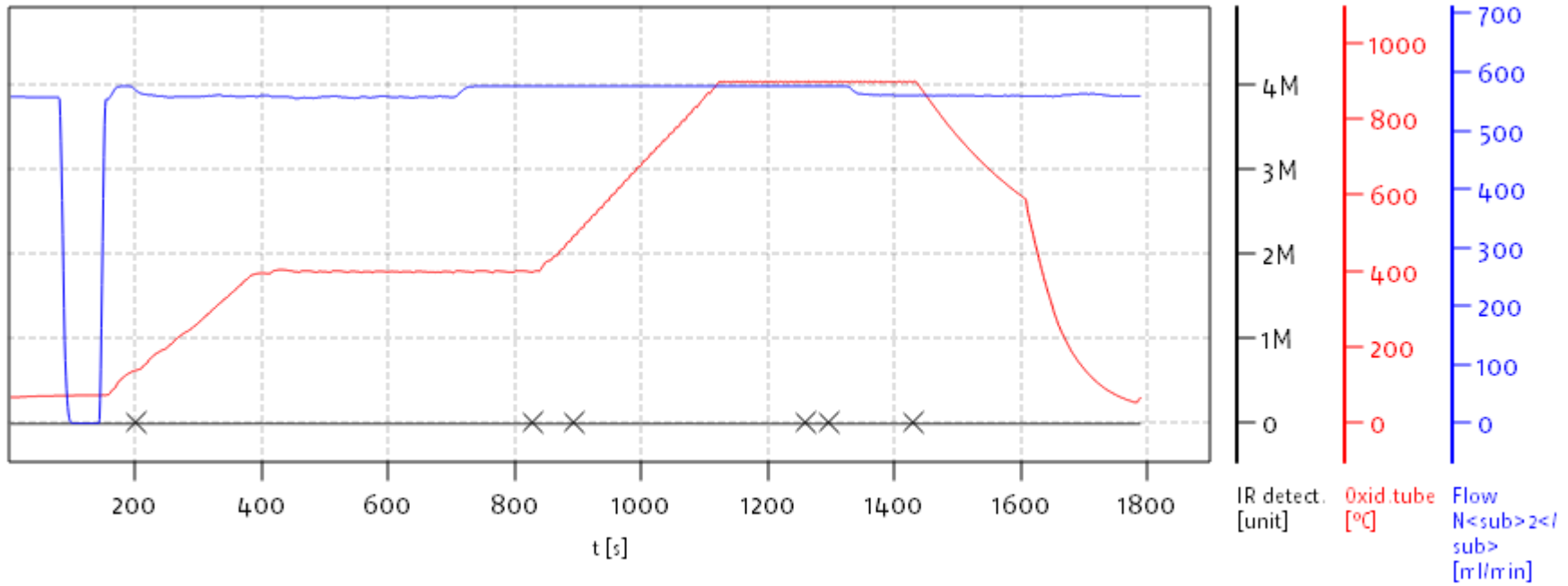
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
31	31	SLE0270-ICB1	530.50		CARBON	5/18/2023 2:51 AM	bl,C1u,C3u,C2u	0.003	6 198	0.005	0.001	198	1 900	0.003	0.001	0.9871	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

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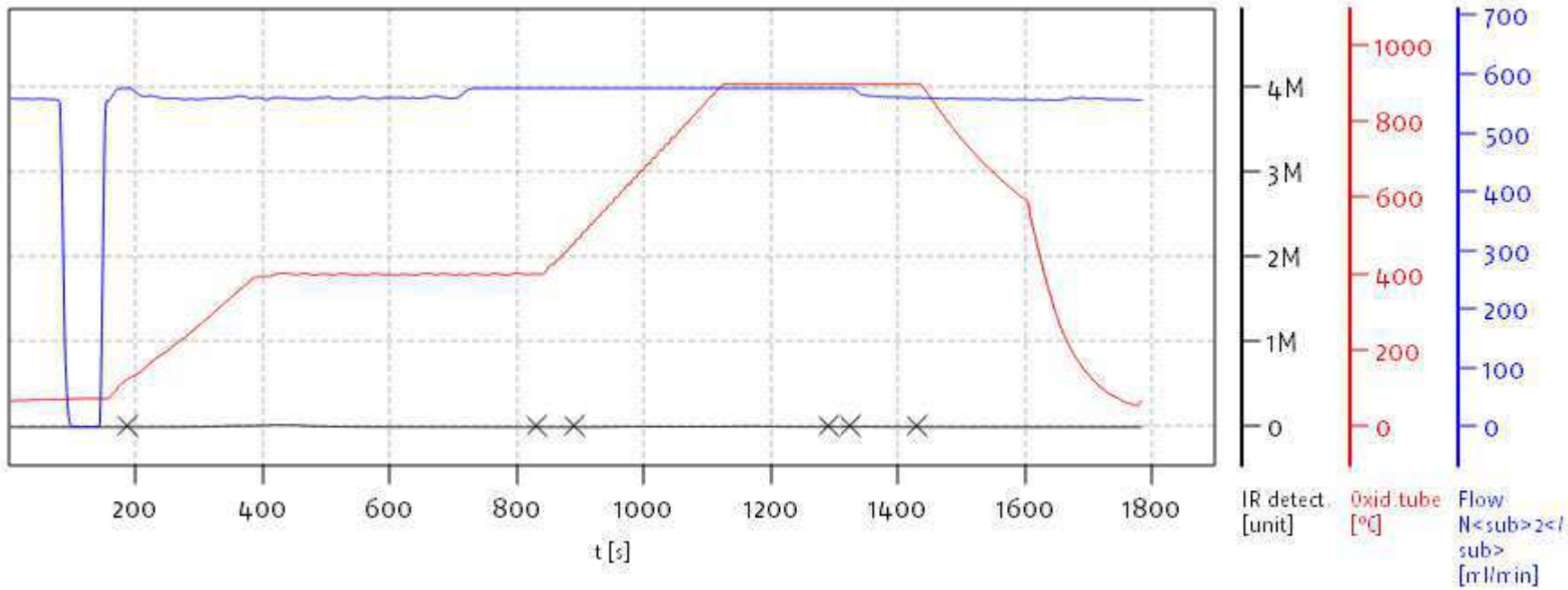
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
32	32	23D0491-10	42.50		CARBON	5/18/2023 3:21 AM	bl	0.560	138 129	0.841	0.044	9 353	73 148	0.515	0.281	0.9871	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
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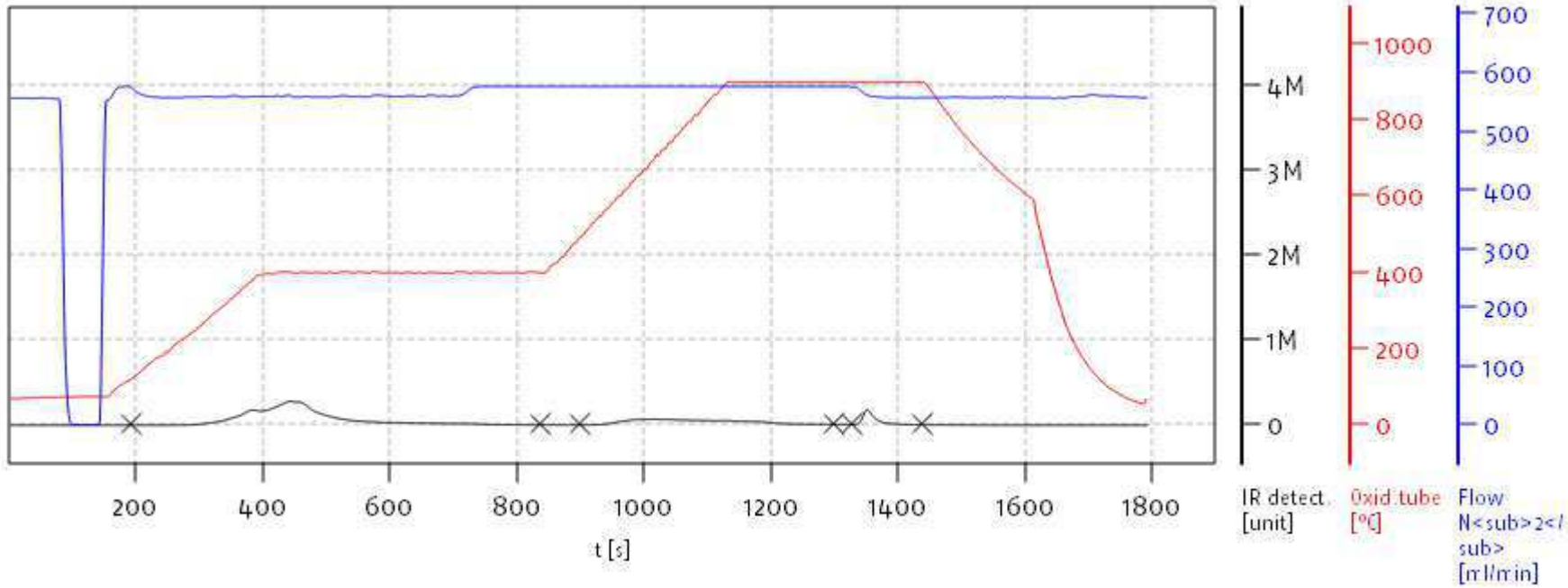
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
33	33	23D0491-10RE1	505.50		CARBON	5/18/2023 3:51 AM	bl	0.513	1 489 627	0.692	0.054	169 645	569 728	0.459	0.178	0.9871	1.0000



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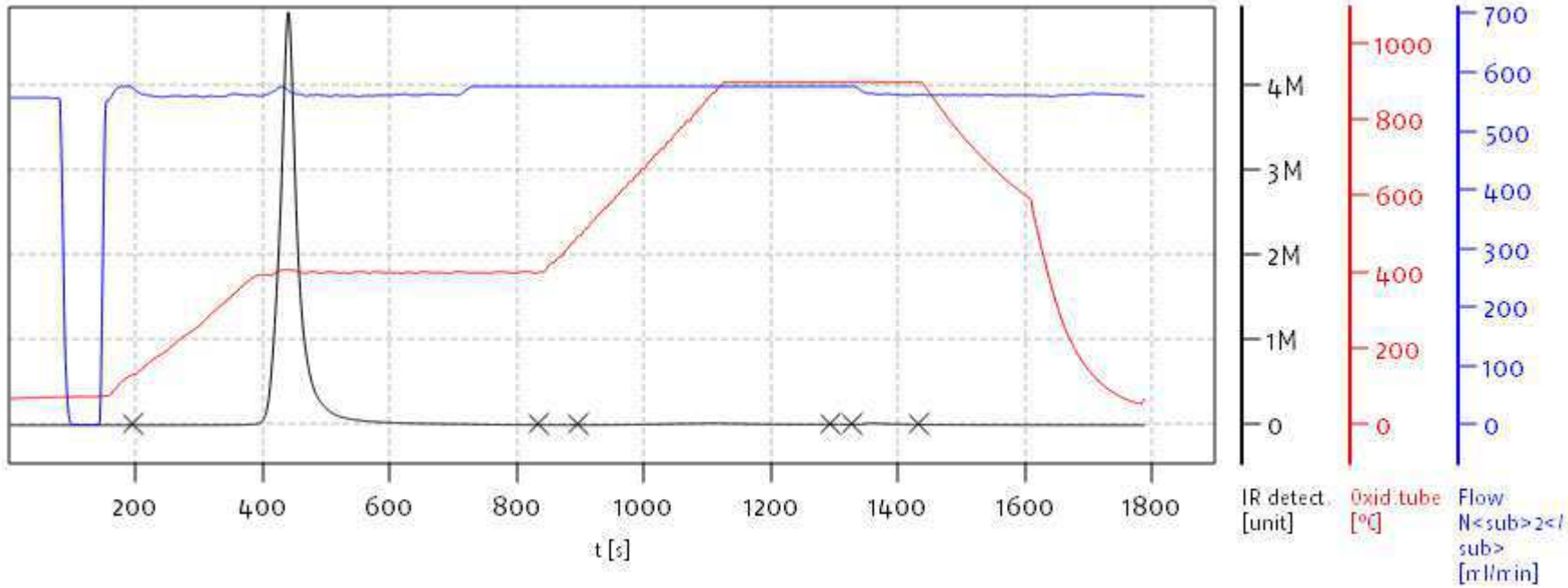
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
34	34	SLE0270-CCV1	22.20		CARBON	5/18/2023 4:21 AM	bl	44.616	6 309 271	45.769	0.375	50 146	159 806	44.241	1.153	0.9871	1.0000



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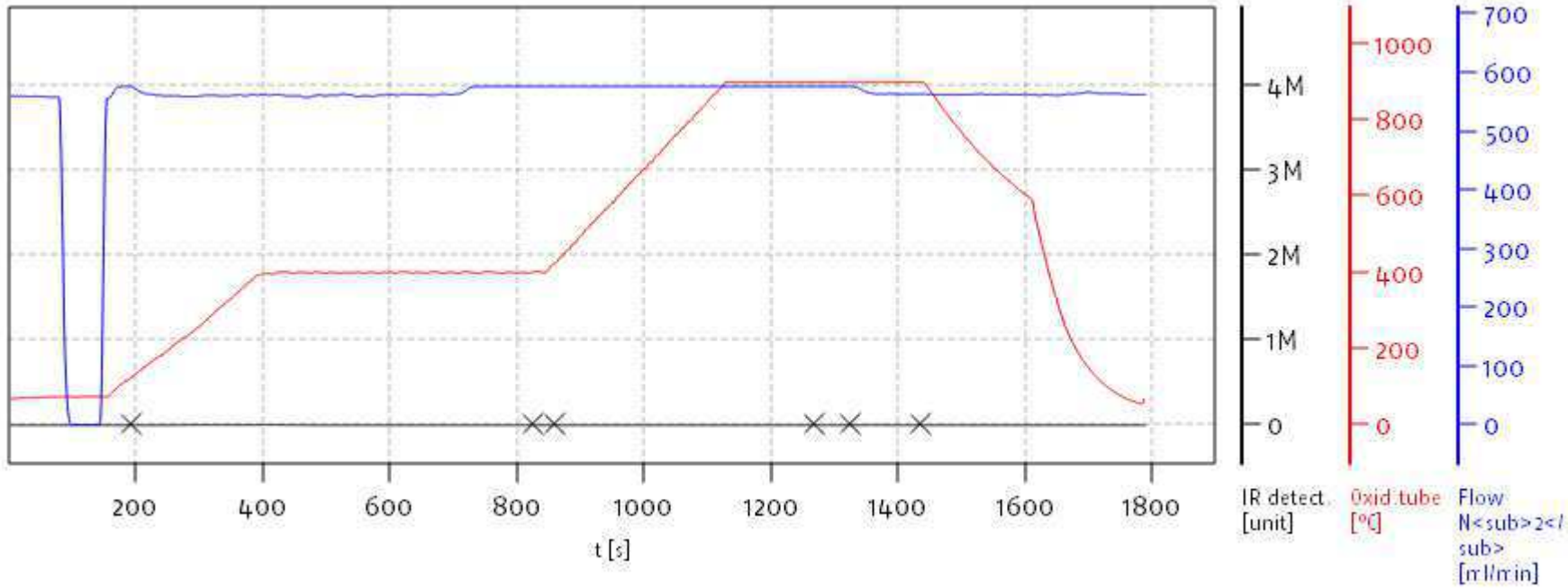
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
35	35	SLE0270-CCB1	523.30		CARBON	5/18/2023 4:52 AM	bl,C3u,C2u	0.009	22 128	0.010	0.001	2 335	2 184	0.007	0.001	0.9871	1.0000



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Soli TOC Cube, Carbon
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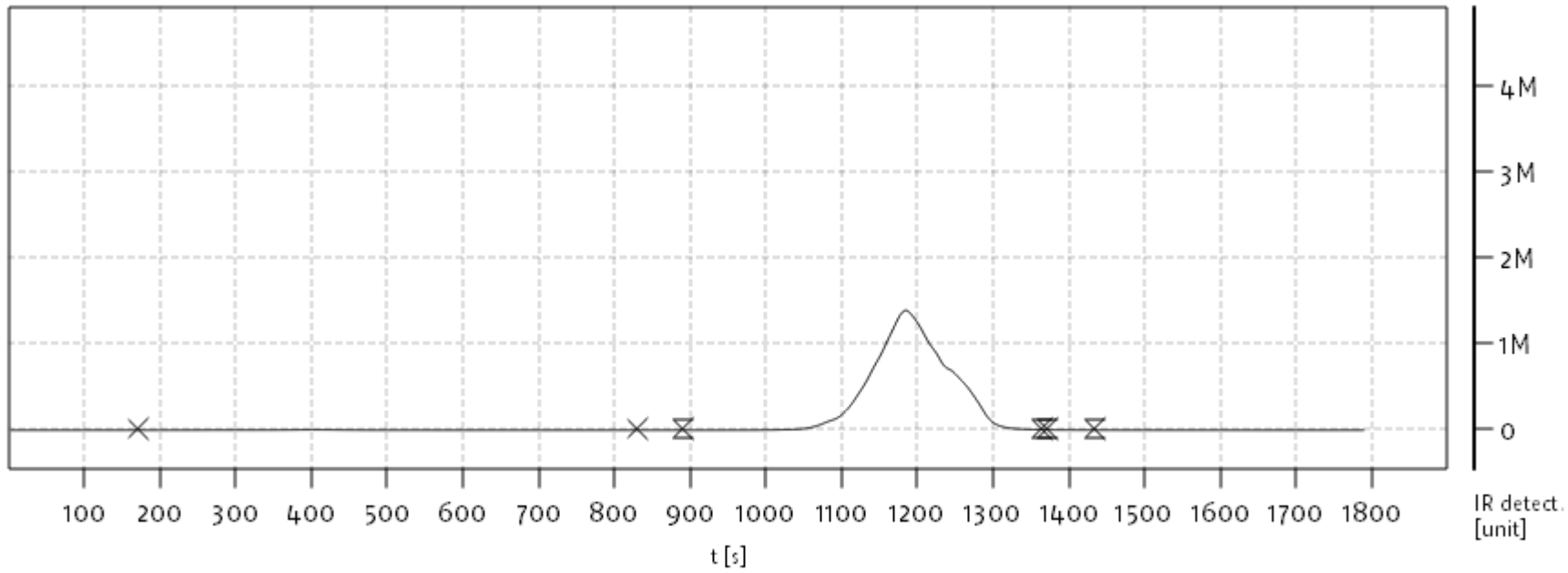
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
23	23	SLE0270-CALL	200.00	0.0700	CARBON	5/18/2023 9:47 AM	bl	0.019	21 598	4.386	0.000	**0**	**5 538 028**	0.019	4.367	1.0000	1.0000



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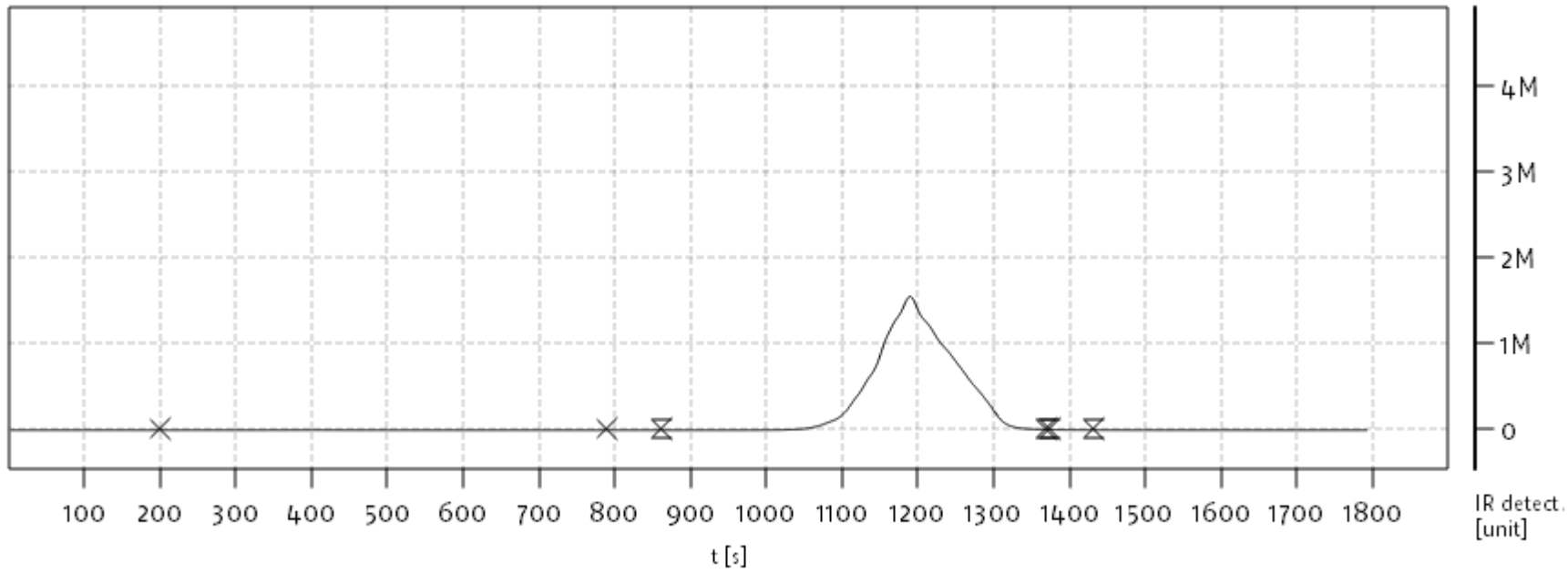
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
24	24	SLE0270-CALM	200.00	0.0800	CARBON	5/18/2023 9:48 AM	bl,C1u	0.006	5 408	4.784	0.000	**0**	**6 058 878**	0.006	4.778	1.0000	1.0000



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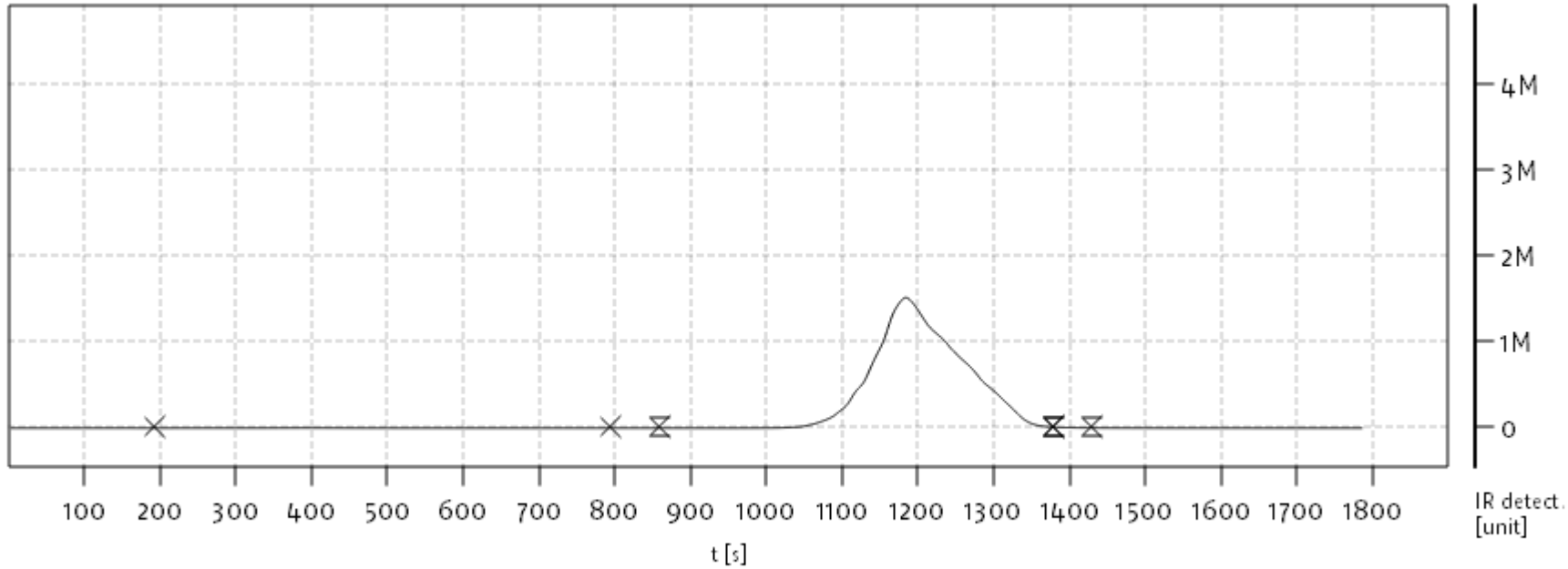
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
25	25	SLE0270-CALN	200.00	0.0900	CARBON	5/18/2023 9:49 AM	bl	0.009	8 745	5.379	0.000	**0**	**6 810 985**	0.009	5.370	1.0000	1.0000



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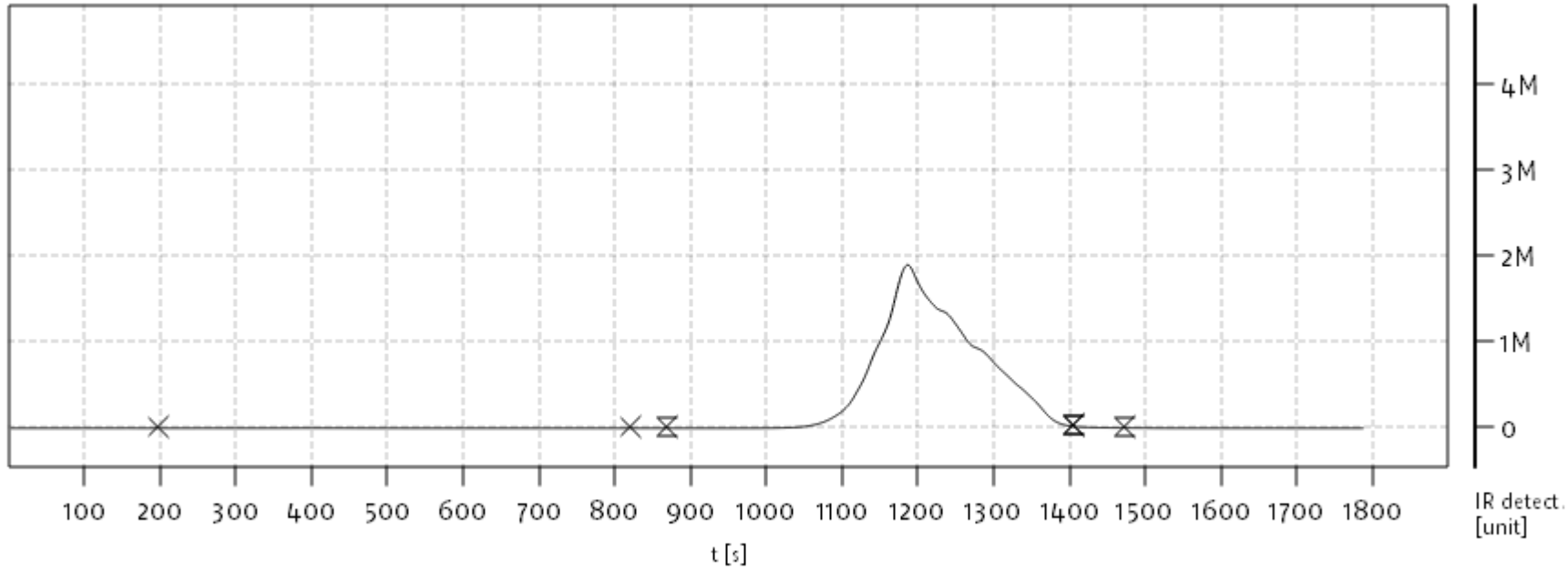
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
26	26	SLE0270-CALO	200.00	0.1200	CARBON	5/18/2023 9:49 AM	bl,C1u,C3o	0.008	6 993	7.291	0.000	0	9 238 066	0.008	7.283	1.0000	1.0000



Name:

Access: soliTOC superuser

Date: Thu May 18 09:50:12 2023

elementar
EXCELLENCE IN ELEMENTS

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00052	Instrument:	TOC Cube
Calibration Date:	05/17/2023 10:07		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	0.0081413	2824365	0.015378	1908831	0.02171	2161539	0.030153	2354094	0.04523	1647690	0.060306	1529782
Total Carbon	0.0081413	2824365	0.015378	1908831	0.02171	2161539	0.030153	2354094	0.04523	1647690	0.060306	1529782
Total Inorganic Carbon	0.0081413	2824365	0.015378	1908831	0.02171	2161539	0.030153	2354094	0.04523	1647690	0.060306	1529782
% Soot	0.0081413	2824365	0.015378	1908831	0.02171	2161539	0.030153	2354094	0.04523	1647690	0.060306	1529782

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00052
Instrument: TOC Cube
Calibration Date: 05/17/2023 10:07

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	0.075081	1526165	0.092268	1411324	0.12031	1696235	0.15107	1646548	0.24	1507392	0.306	1652209
Total Carbon	0.075081	1526165	0.092268	1411324	0.12031	1696235	0.15107	1646548	0.24	1507392	0.306	1652209
Total Inorganic Carbon	0.075081	1526165	0.092268	1411324	0.12031	1696235	0.15107	1646548	0.24	1507392	0.306	1652209
% Soot	0.075081	1526165	0.092268	1411324	0.12031	1696235	0.15107	1646548	0.24	1507392	0.306	1652209

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00052
Instrument: TOC Cube
Calibration Date: 05/17/2023 10:07

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	0.426	1366392	0.606	1382589	0.894	1387318	1.206	1393572	1.506	1392225	1.806	1387100
Total Carbon	0.426	1366392	0.606	1382589	0.894	1387318	1.206	1393572	1.506	1392225	1.806	1387100
Total Inorganic Carbon	0.426	1366392	0.606	1382589	0.894	1387318	1.206	1393572	1.506	1392225	1.806	1387100
% Soot	0.426	1366392	0.606	1382589	0.894	1387318	1.206	1393572	1.506	1392225	1.806	1387100

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00052
Instrument: TOC Cube
Calibration Date: 05/17/2023 10:07

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	2.406	1383080	2.988	1392309	4.206	1321832	4.788	1266559	5.394	1264318	7.152	1292654
Total Carbon	2.406	1383080	2.988	1392309	4.206	1321832	4.788	1266559	5.394	1264318	7.152	1292654
Total Inorganic Carbon	2.406	1383080	2.988	1392309	4.206	1321832	4.788	1266559	5.394	1264318	7.152	1292654
% Soot	2.406	1383080	2.988	1392309	4.206	1321832	4.788	1266559	5.394	1264318	7.152	1292654

INITIAL CALIBRATION DATA

EPA 9060A m

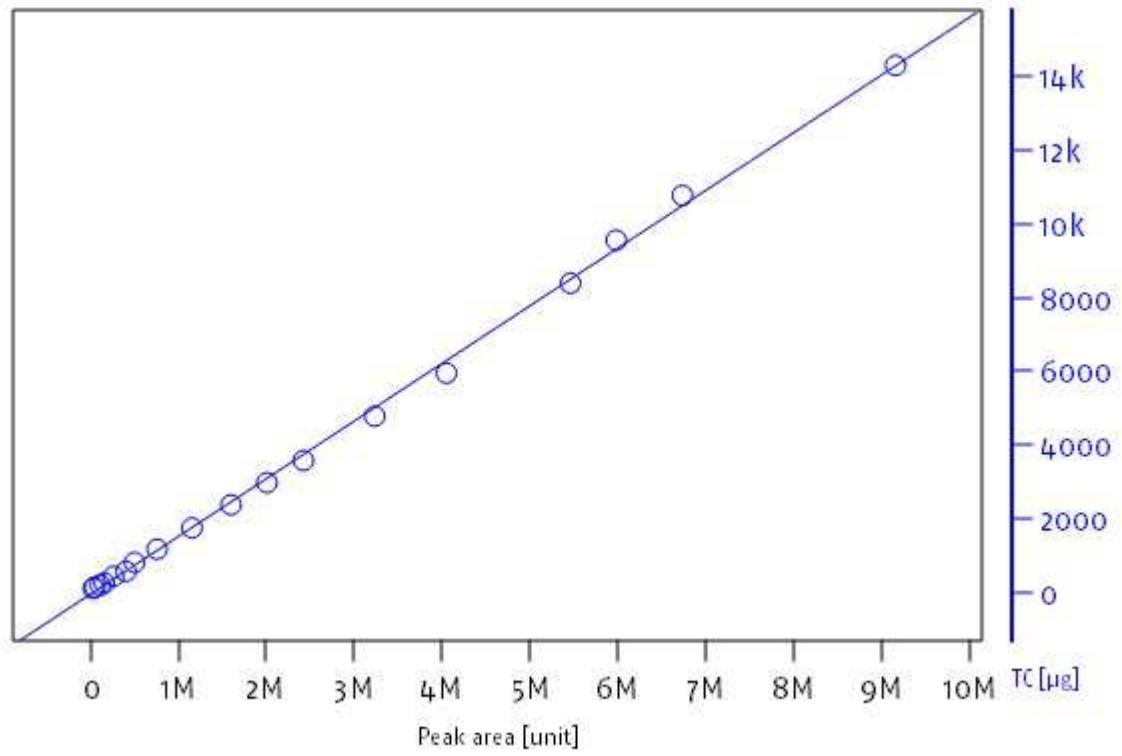
Laboratory:	Analytical Resources, LLC	SDG:	23C0752
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00052	Instrument:	TOC Cube
Calibration Date:	05/17/2023 10:07		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Total Organic Carbon	1587338	23.9	0.9987			
Total Carbon	1587338	23.9	0.9987			
Total Inorganic Carbon	1587338	23.9	0.9987			
% Soot	1587338	23.9	0.9987			

Calibration parameters TC, Whole range

a	+9.122373e-03
b	+1.560792e-06
c	+0.000000e+00
d	+0.000000e+00
e	+0.000000e+00
r	0.998690
r_old	0.998690
Proc.-SD	155.562438 µg

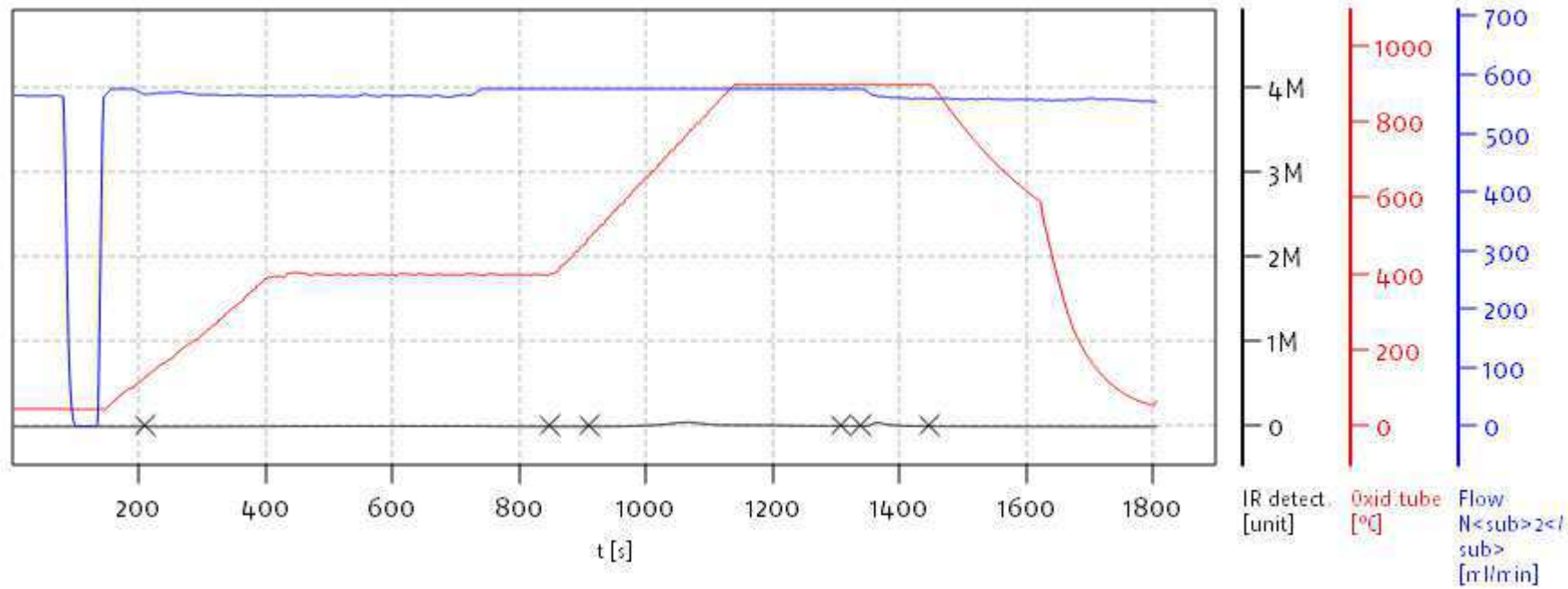
Calibration graph TC, Whole range



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
1	1	BLANK	1.00		CARBON	5/ 17/2023 11:46 AM	bl	0.000	83 718	0.000	0.000	65 731	251 400	0.000	0.000	1.0000	1.0000



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Access: soliTOC superuser

Date: Thu May 18 09:43:39 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

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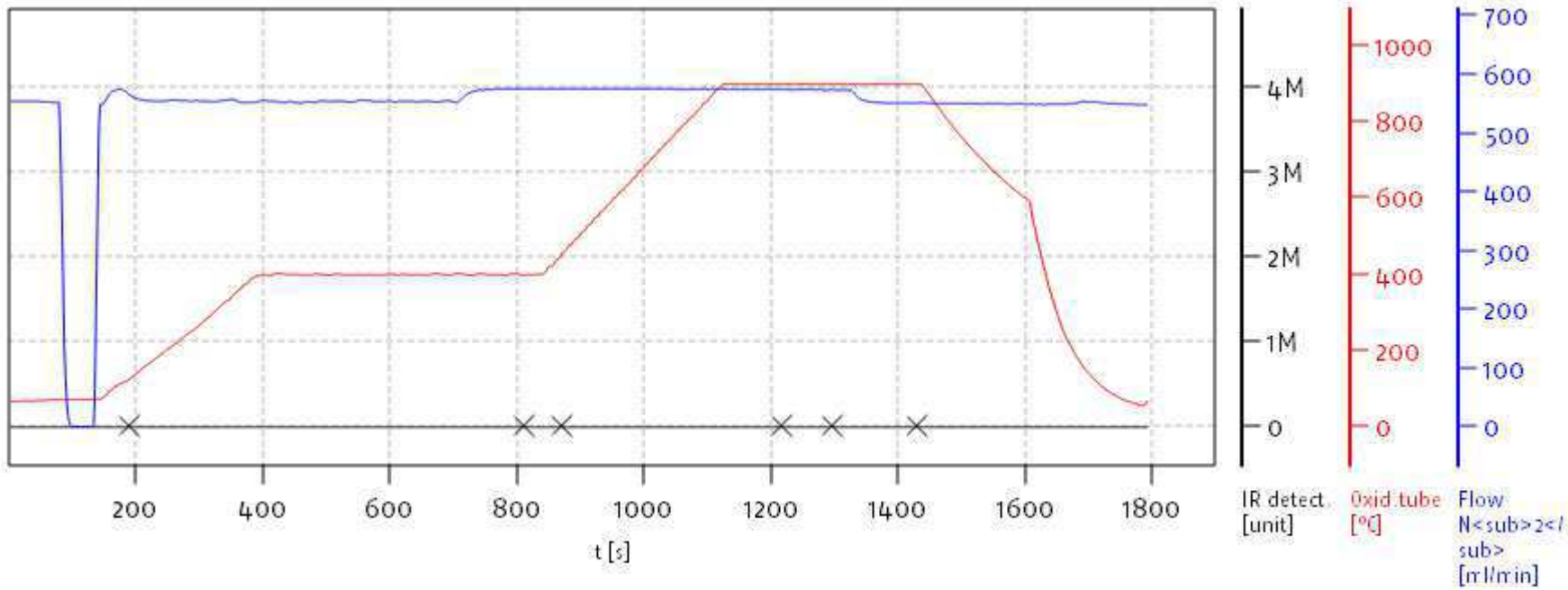
EXCELLENCE IN ELEMENTS

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
2	2	BLANK	1.00		CARBON	5/ 17/2023 12:16 PM	bl	0.000	3 043	0.000	0.000	273	1	0.000	0.000	1.0000	1.0000



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Date: Thu May 18 09:43:39 2023

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Serial No: 0300.181017
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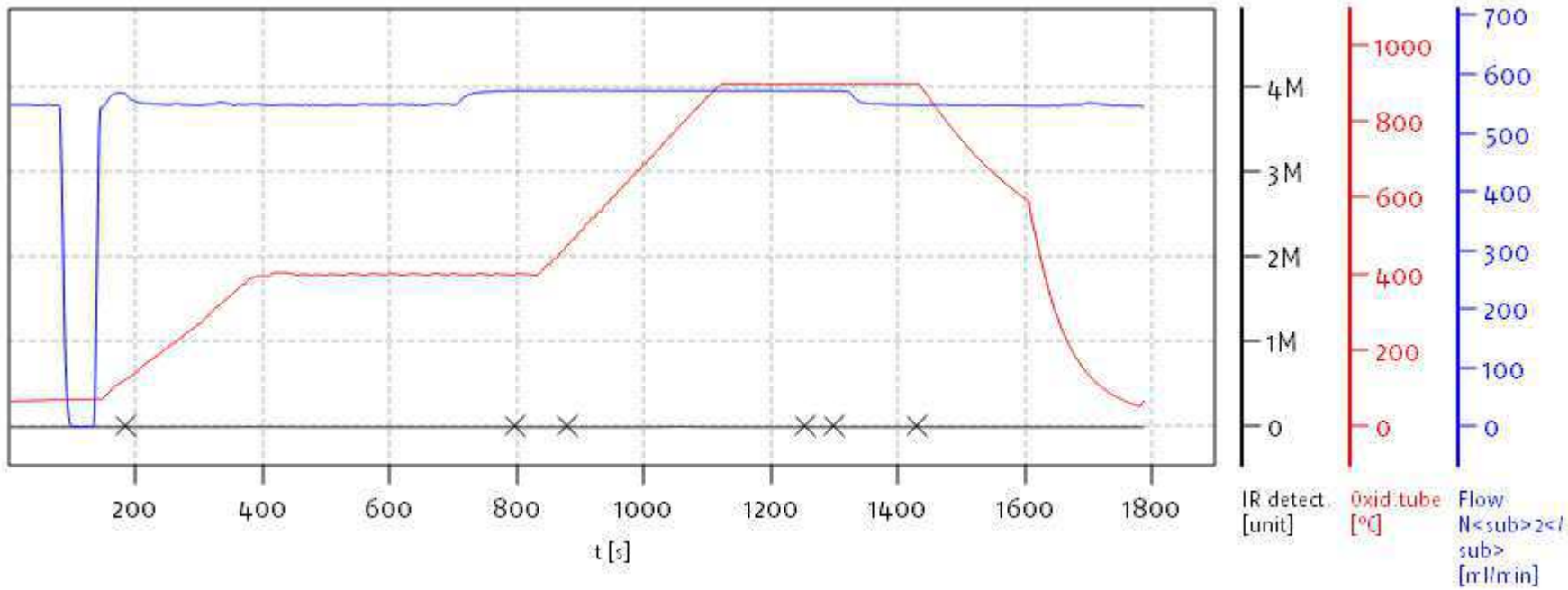
Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
3	3	SLE0270-CAL1	200.00	0.0025	CARBON	5/17/2023 12:46 PM	bl,C2u	0.014	12 167	0.024	0.002	431	10 396	0.012	0.010	1.0000	1.0000



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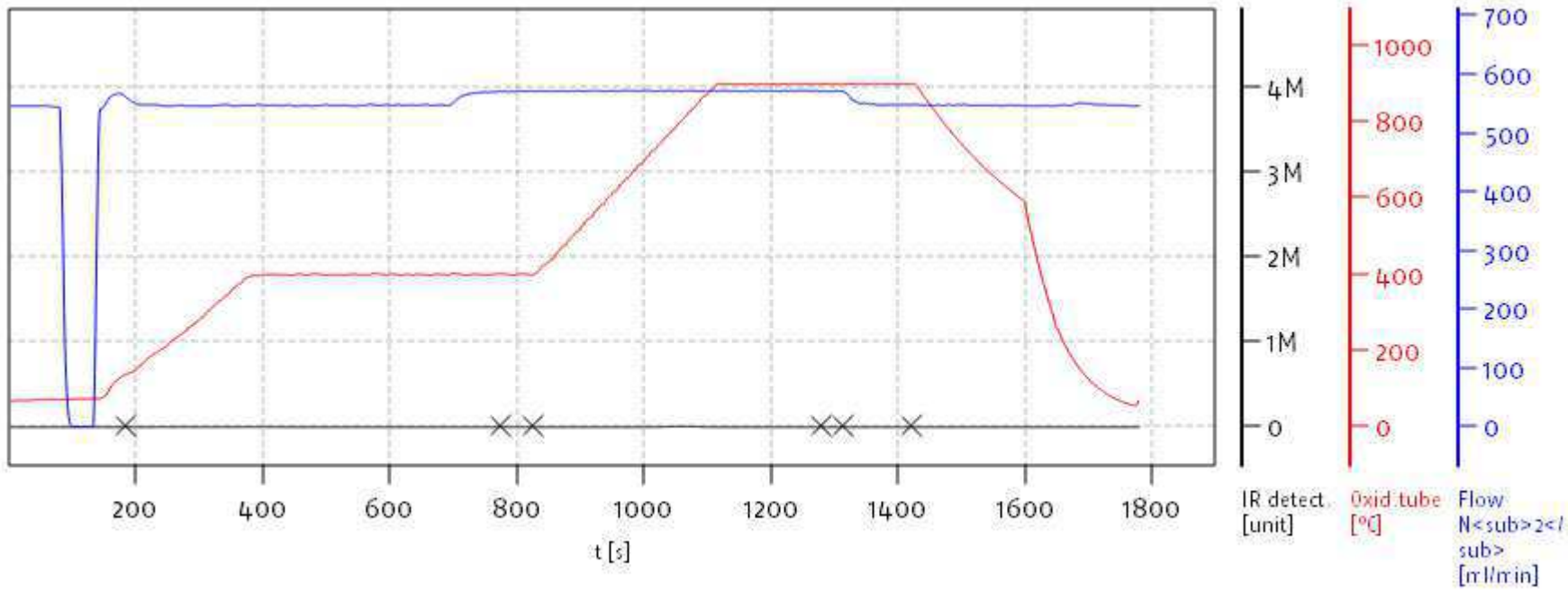
Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
4	4	SLE0270-CAL2	200.00	0.0050	CARBON	5/17/2023 1:16 PM	bl,C2u	0.013	10 893	0.029	0.002	141	18 320	0.011	0.017	1.0000	1.0000



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Date: Thu May 18 09:43:39 2023

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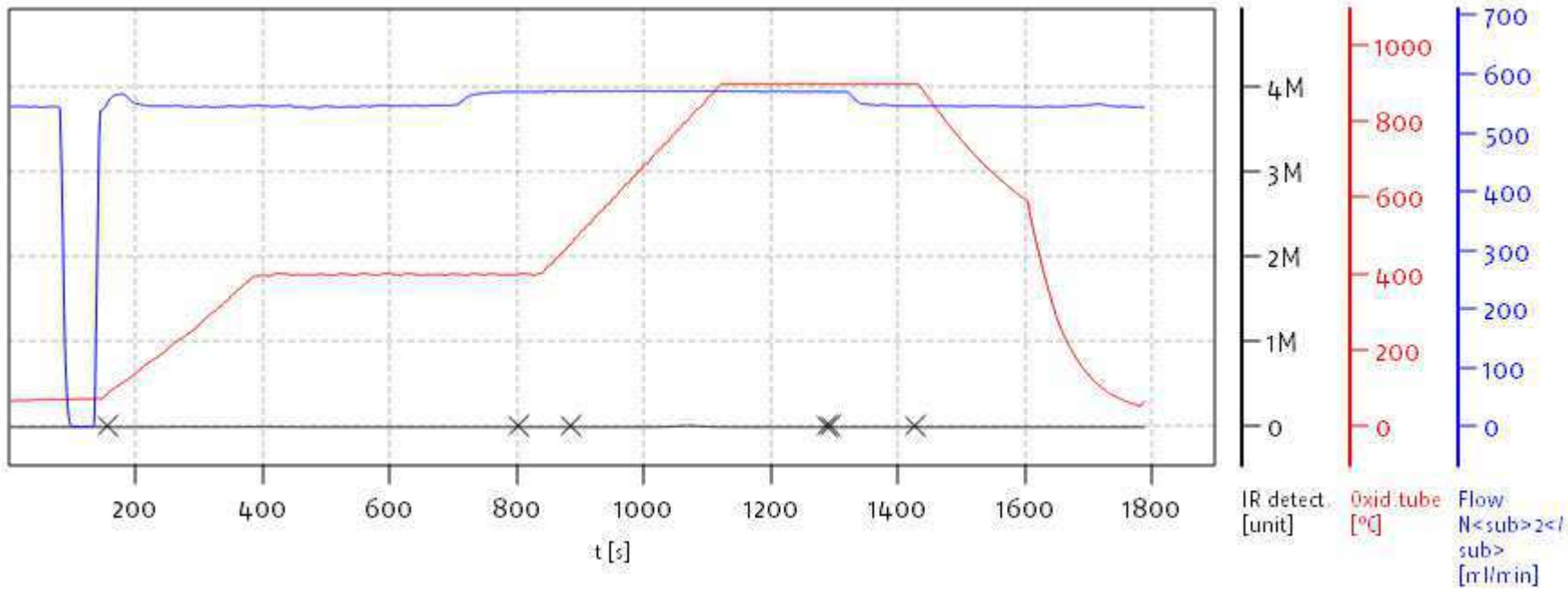
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
5	5	SLE0270-CAL3	200.00	0.0070	CARBON	5/17/2023 1:46 PM	bl,C2u	0.018	16 667	0.043	0.002	387	29 873	0.015	0.026	1.0000	1.0000



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Date: Thu May 18 09:43:39 2023

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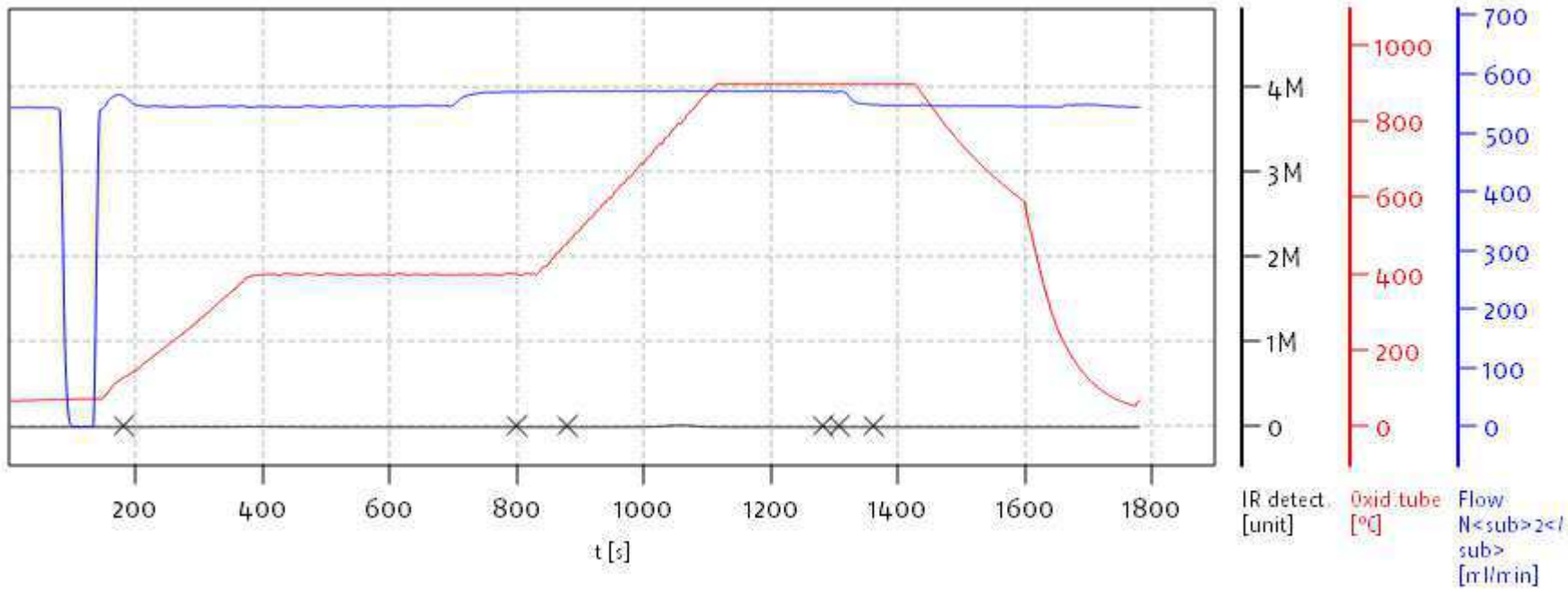
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
6	6	SLE0270-CAL4	200.00	0.0100	CARBON	5/17/2023 2:16 PM	bl,C2u	0.024	24 980	0.062	0.002	130	45 873	0.022	0.038	1.0000	1.0000



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Date: Thu May 18 09:43:39 2023

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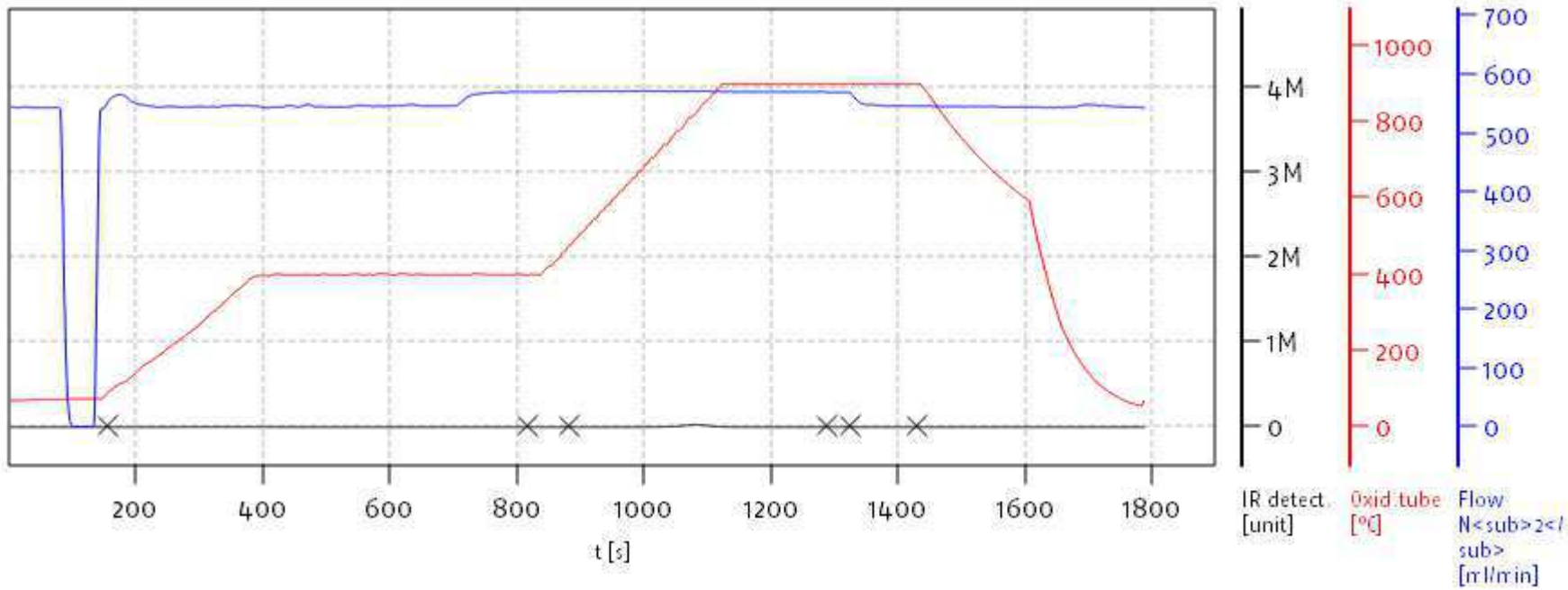
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
7	7	SLE0270-CAL5	200.00	0.0150	CARBON	5/17/2023 2:47 PM	bl,C2u	0.014	12 413	0.065	0.002	539	61 573	0.012	0.051	1.0000	1.0000



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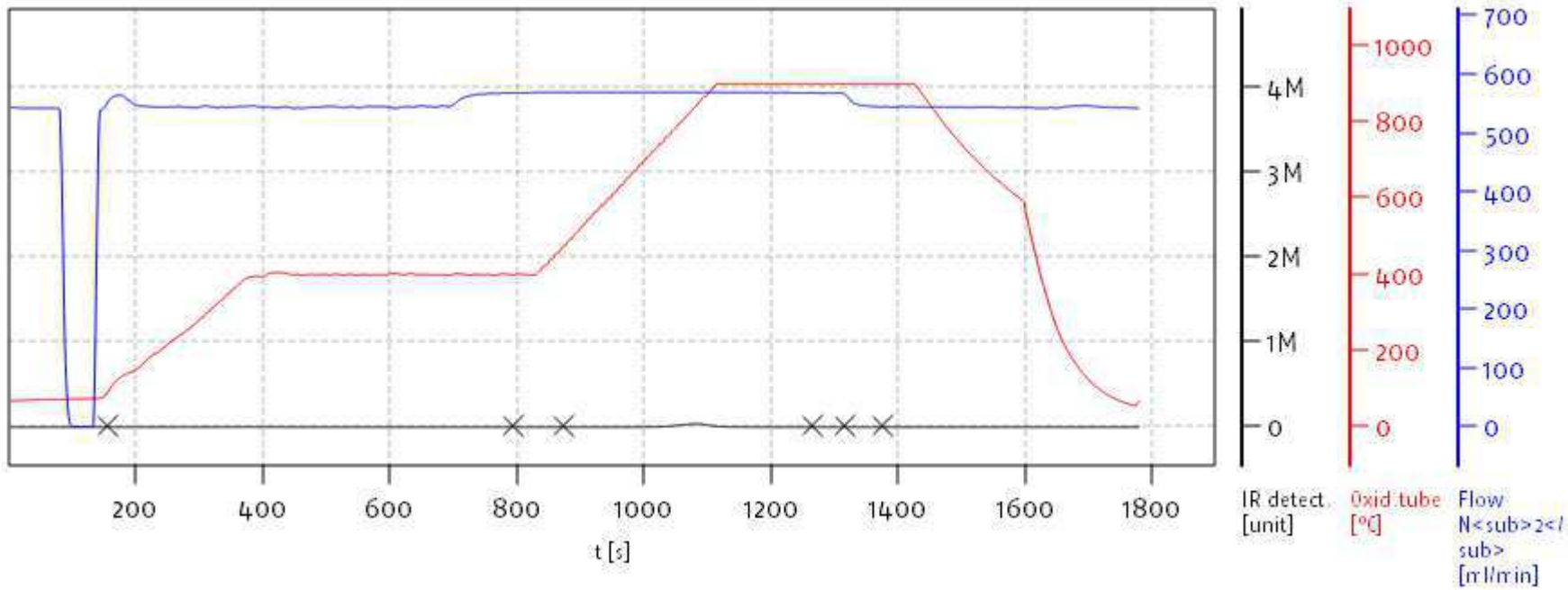
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
8	8	SLE0270-CAL6	200.00	0.0200	CARBON	5/17/2023 3:17 PM	bl,C1u,C2u	0.011	7 999	0.079	0.002	170	84 086	0.008	0.068	1.0000	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
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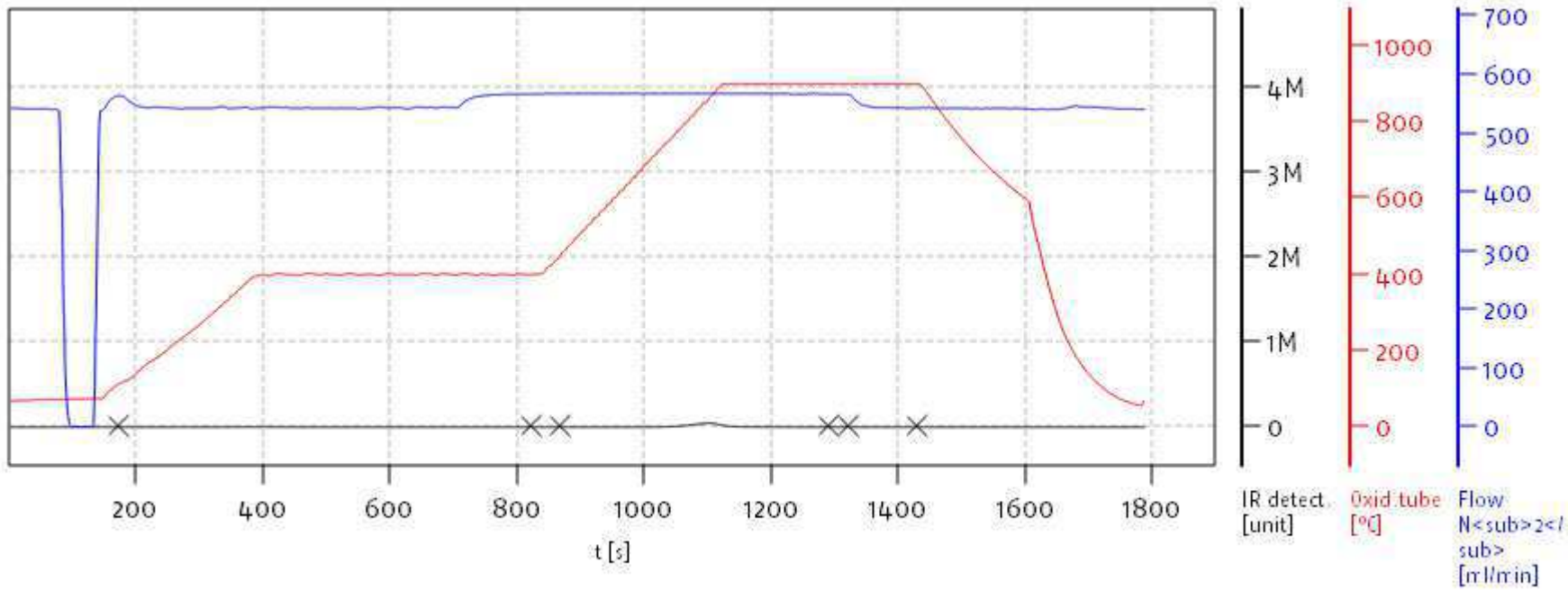
Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
9	9	SLE0270-CAL7	200.00	0.0250	CARBON	5/17/2023 3:47 PM	bl,C1u,C2u	0.011	7 612	0.097	0.003	1 386	105 588	0.008	0.085	1.0000	1.0000



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elementar
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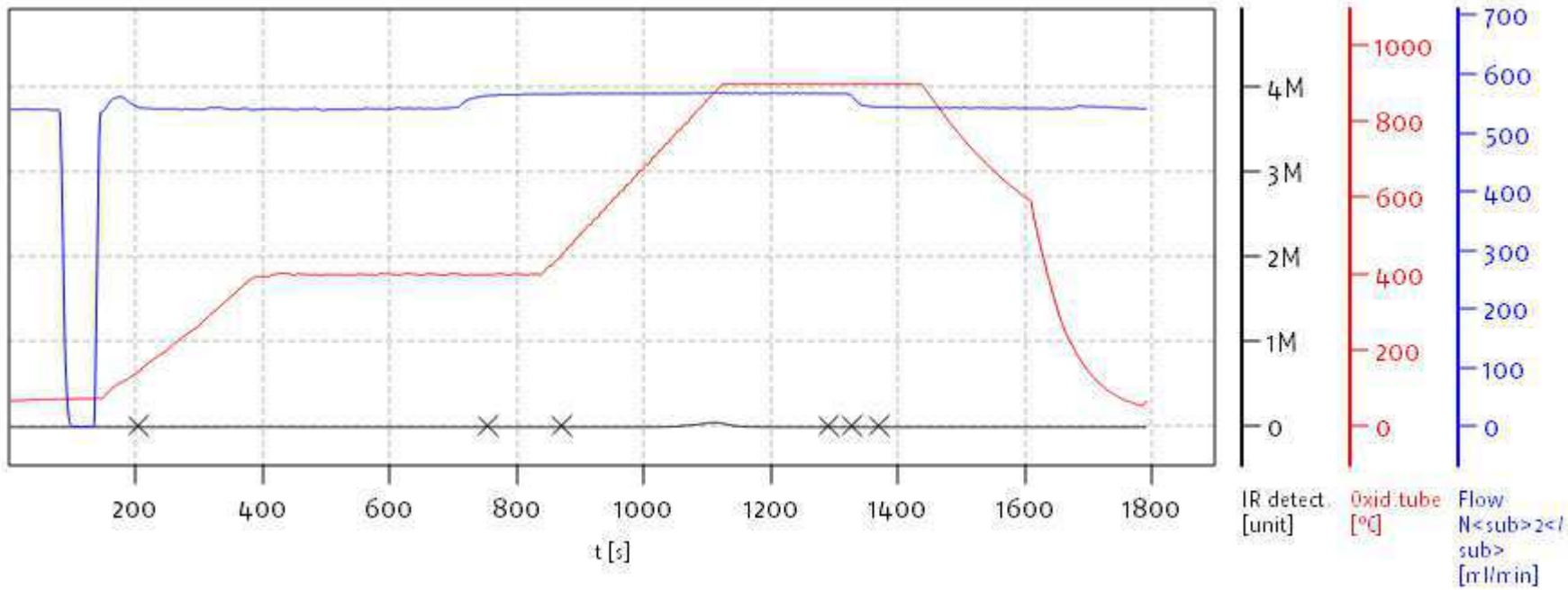
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
10	10	SLE0270-CAL8	200.00	0.0300	CARBON	5/17/2023 4:17 PM	bl,C1u,C2u	0.008	5 428	0.109	0.002	61	124 731	0.006	0.100	1.0000	1.0000



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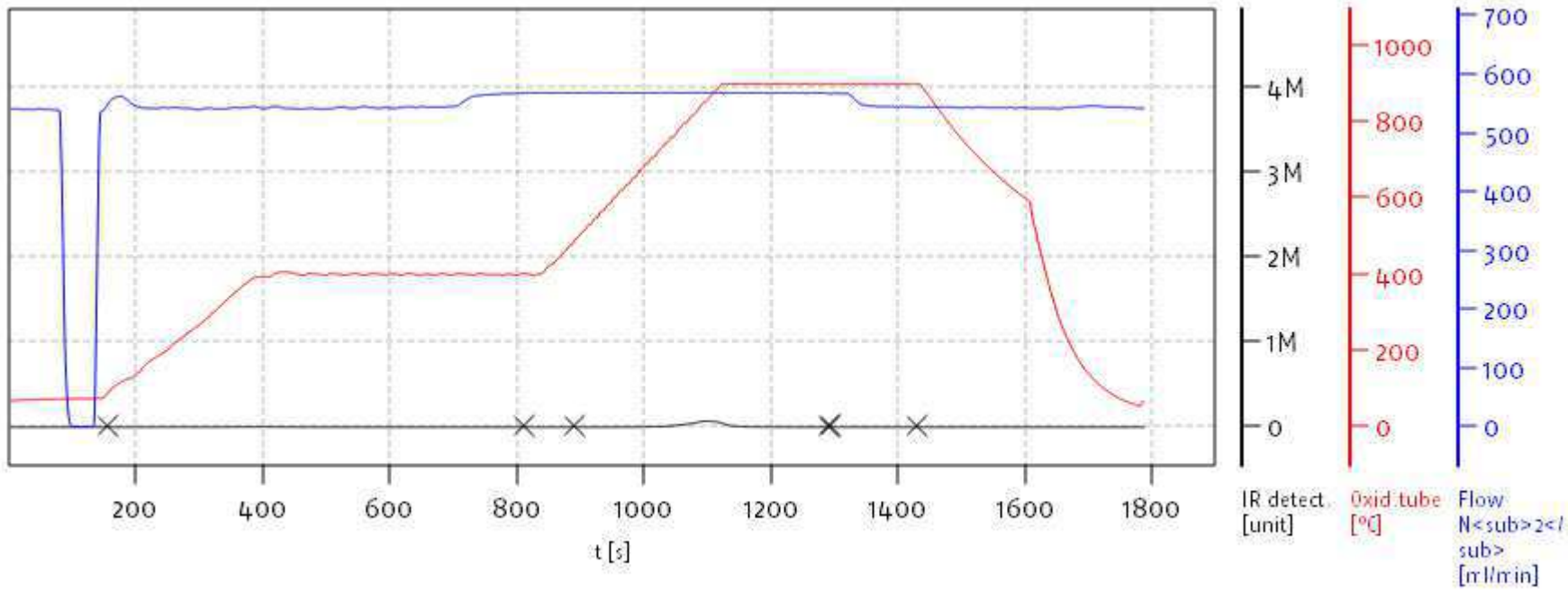
EXCELLENCE IN ELEMENTS

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
11	11	SLE0270-CAL9	200.00	0.0400	CARBON	5/17/2023 4:47 PM	bl,C2u	0.019	17 233	0.167	0.003	1 274	185 567	0.016	0.148	1.0000	1.0000



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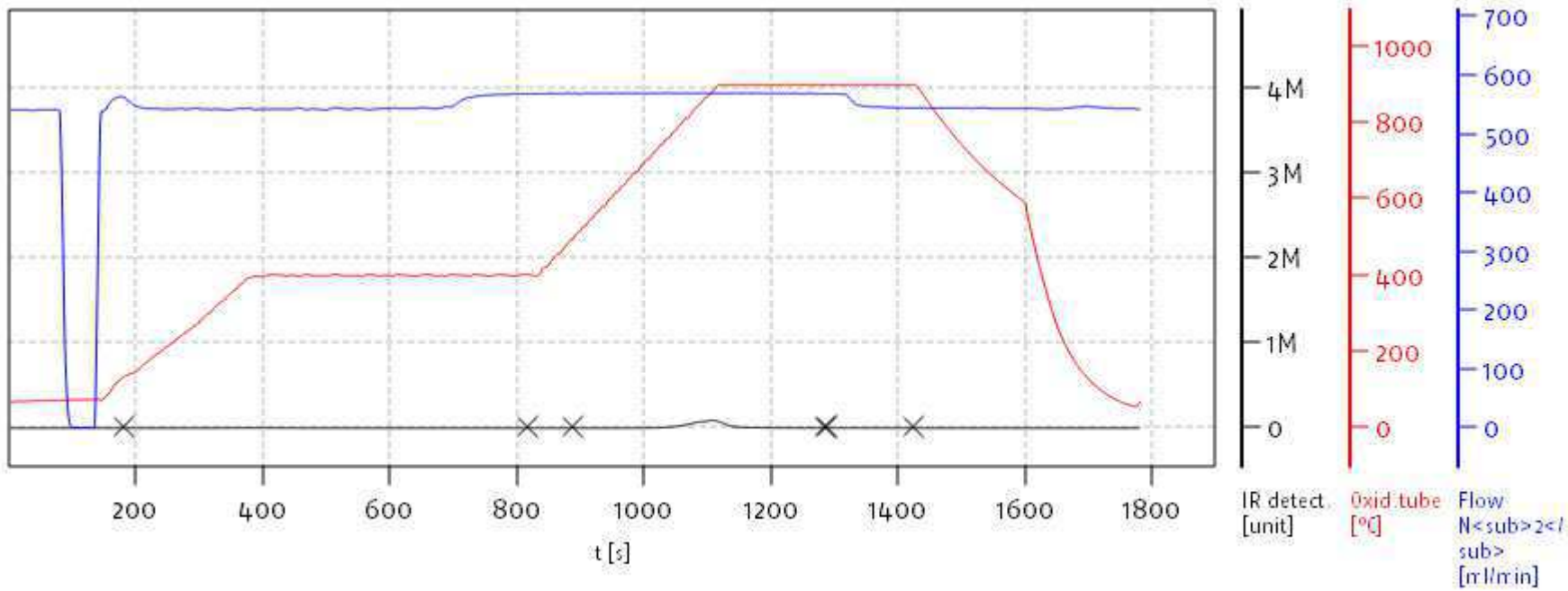
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
12	12	SLE0270-CALA	200.00	0.0500	CARBON	5/17/2023 5:17 PM	bl,C2u	0.018	11 766	0.202	0.007	6 123	230 855	0.011	0.184	1.0000	1.0000



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Serial No: 0300.181017
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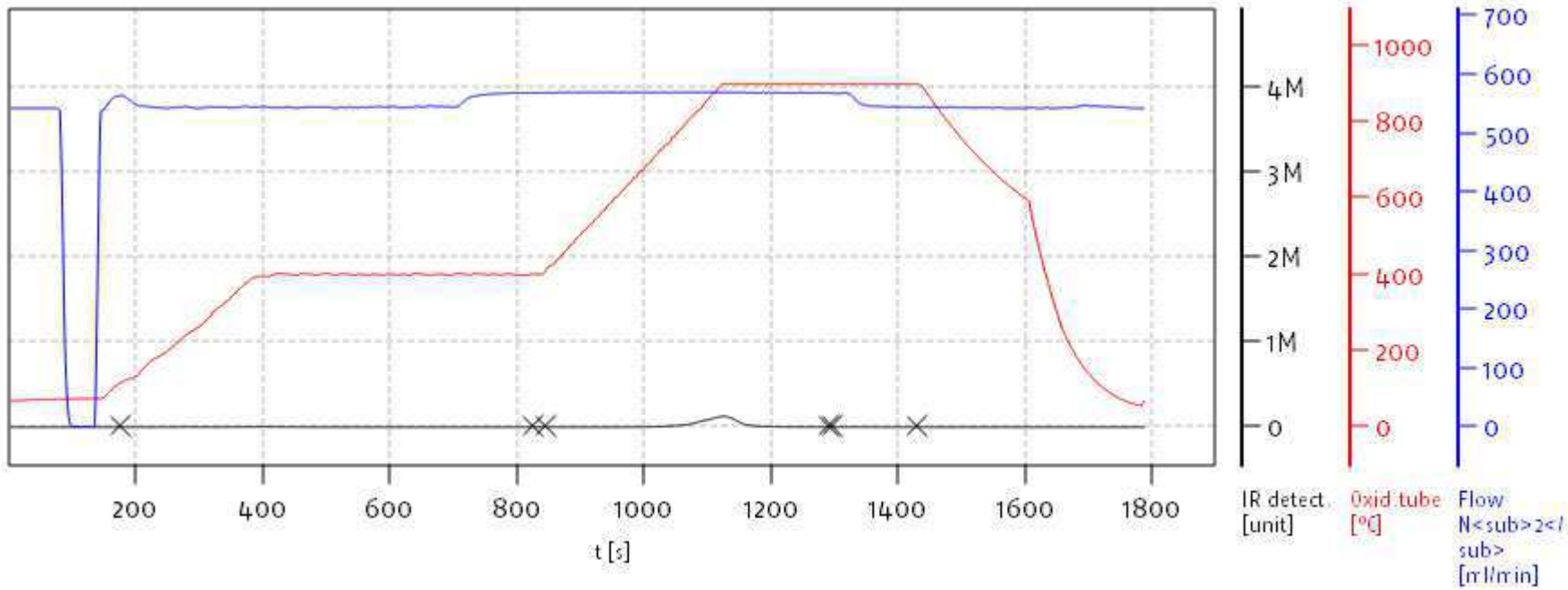
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
13	13	SLE0270-CALB	200.00	0.0040	CARBON	5/17/2023 5:47 PM	bl,C2u	0.022	18 635	0.291	0.005	3 969	339 170	0.017	0.269	1.0000	1.0000



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Date: Thu May 18 09:43:39 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
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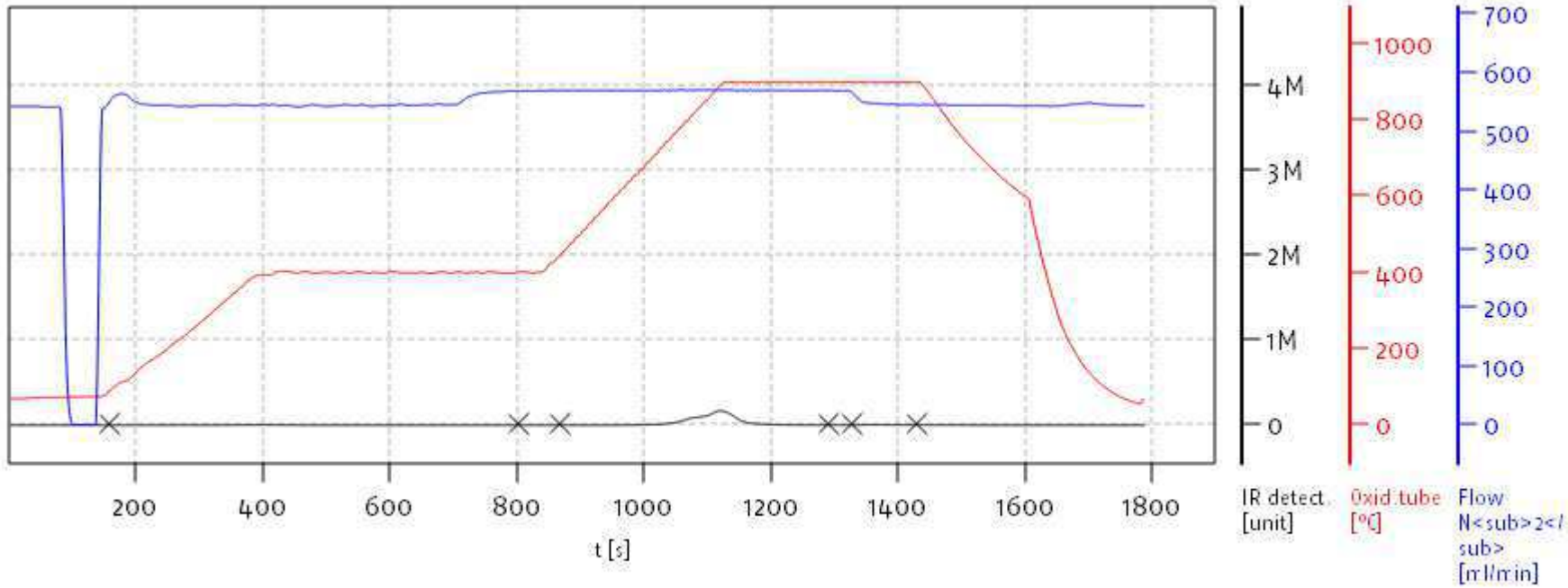
Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
14	14	SLE0270-CALC	200.00	0.0050	CARBON	5/17/2023 6:18 PM	bl	0.026	14 893	0.405	0.012	12 639	478 044	0.014	0.379	1.0000	1.0000



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Access: soliTOC superuser

Date: Thu May 18 09:43:39 2023

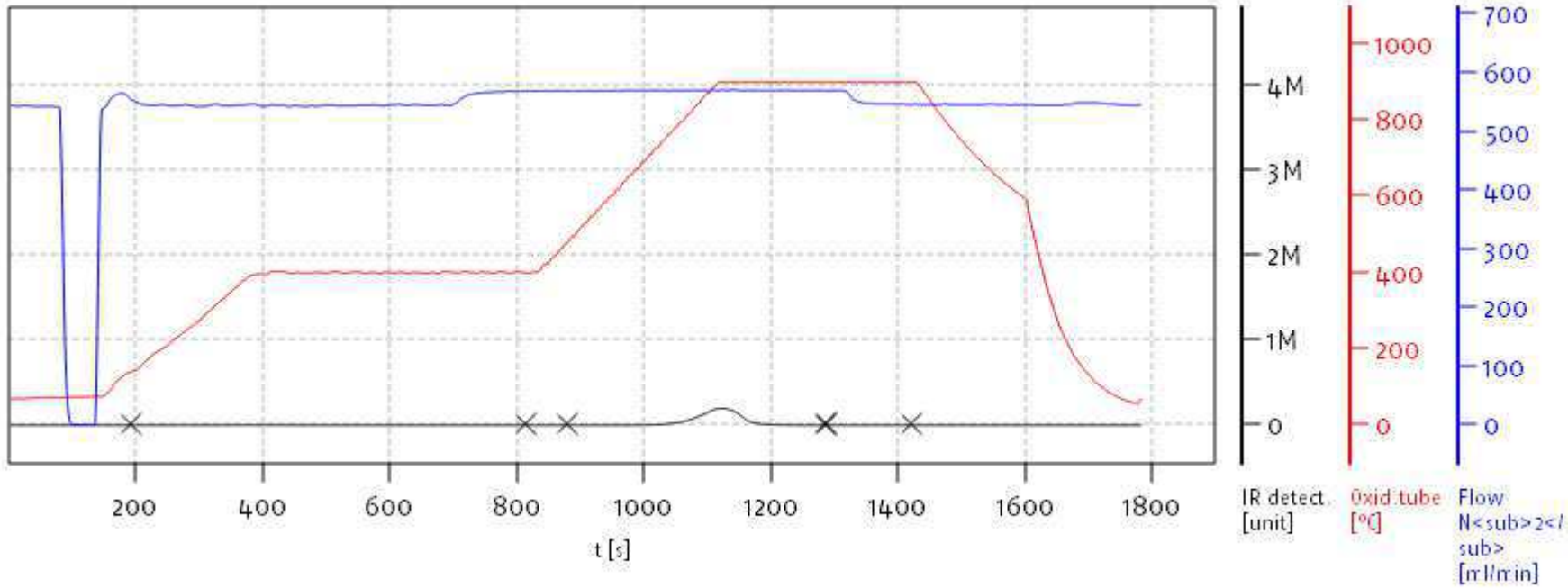
elementar
EXCELLENCE IN ELEMENTS

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
15	15	SLE0270-CALD	200.00	0.0070	CARBON	5/17/2023 6:48 PM	bl,C1u,C2u	0.010	6 787	0.465	0.002	420	574 876	0.007	0.455	1.0000	1.0000



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Date: Thu May 18 09:43:39 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Analytical Resources, LLC
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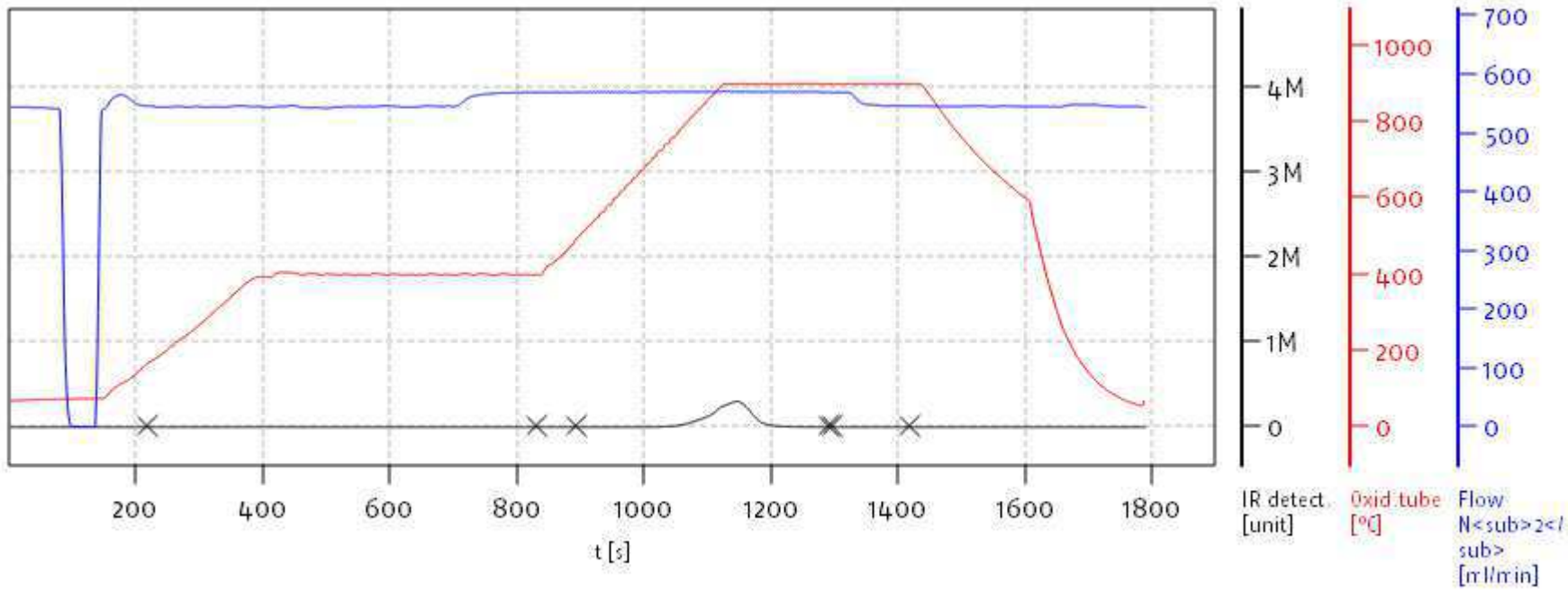
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
16	16	SLE0270-CALE	200.00	0.0100	CARBON	5/17/2023 7:18 PM	bl,C1u,C2u	0.008	4 408	0.667	0.003	771	832 670	0.006	0.658	1.0000	1.0000



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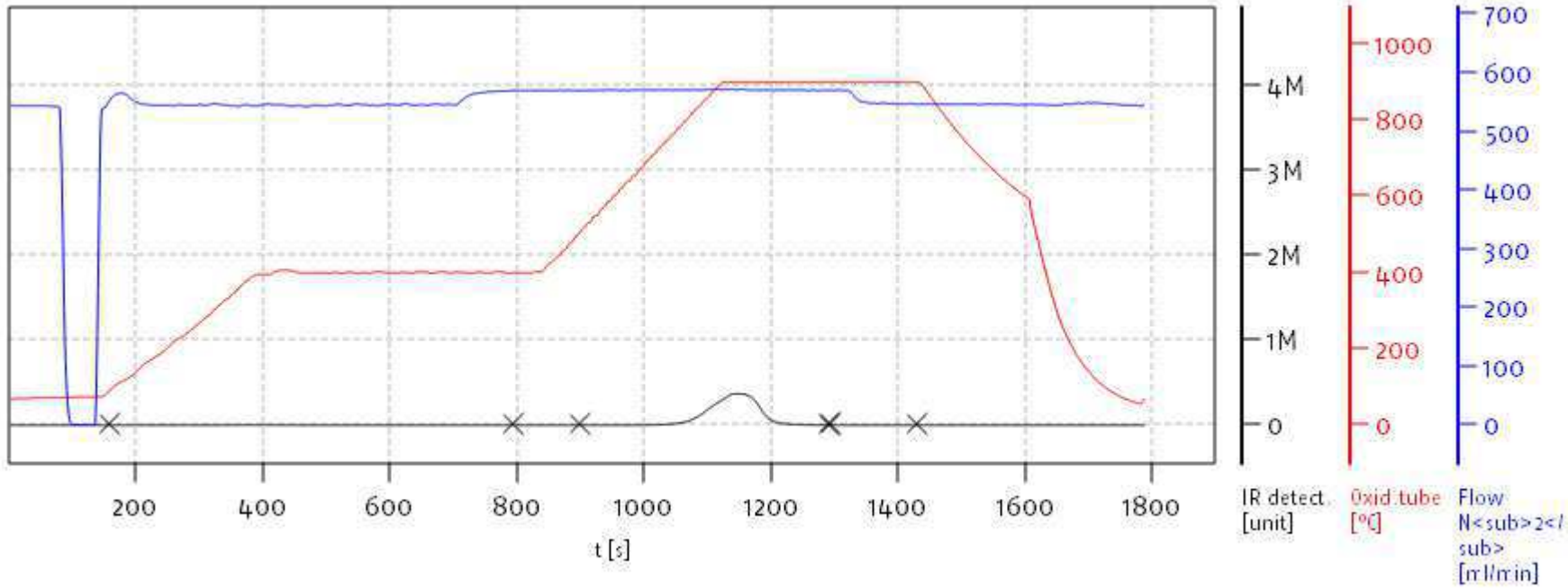
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
17	17	SLE0270-CALF	200.00	0.0150	CARBON	5/17/2023 7:48 PM	bl,C1u,C2u	0.012	8 494	0.984	0.003	1 464	1 230 304	0.009	0.972	1.0000	1.0000



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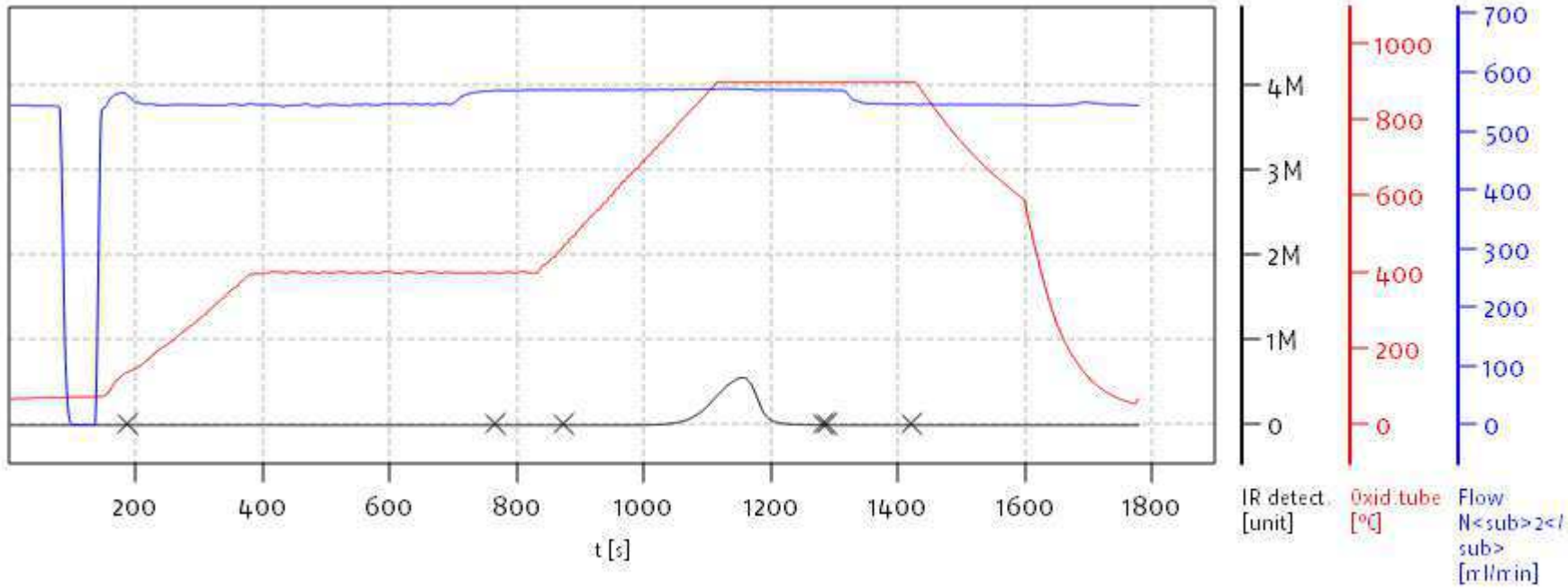
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
18	18	SLE0270-CALG	200.00	0.0200	CARBON	5/17/2023 8:18 PM	bl,C1u,C2u	0.010	5 359	1.331	0.004	1 864	1 673 425	0.006	1.321	1.0000	1.0000



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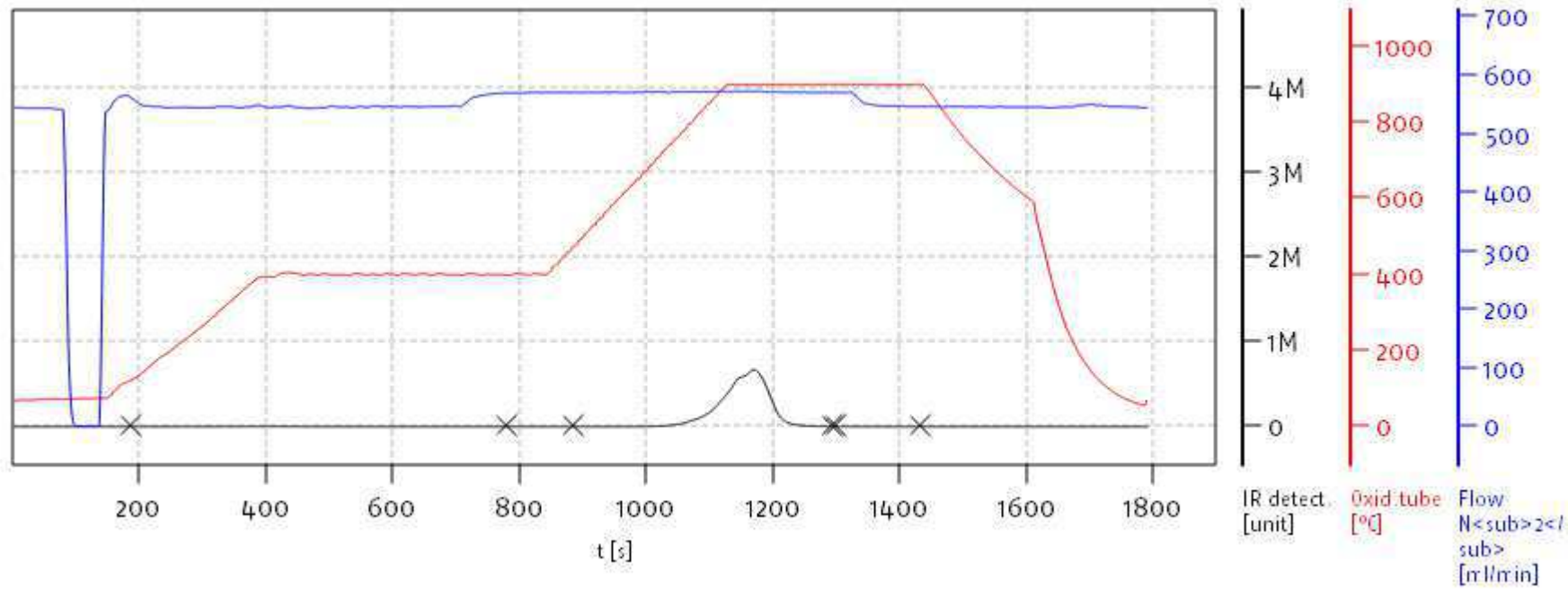
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
19	19	SLE0270-CALH	200.00	0.0250	CARBON	5/17/2023 8:48 PM	bl,C2u	0.015	11 407	1.659	0.004	2 280	2 083 004	0.011	1.644	1.0000	1.0000



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Balance: BAL3
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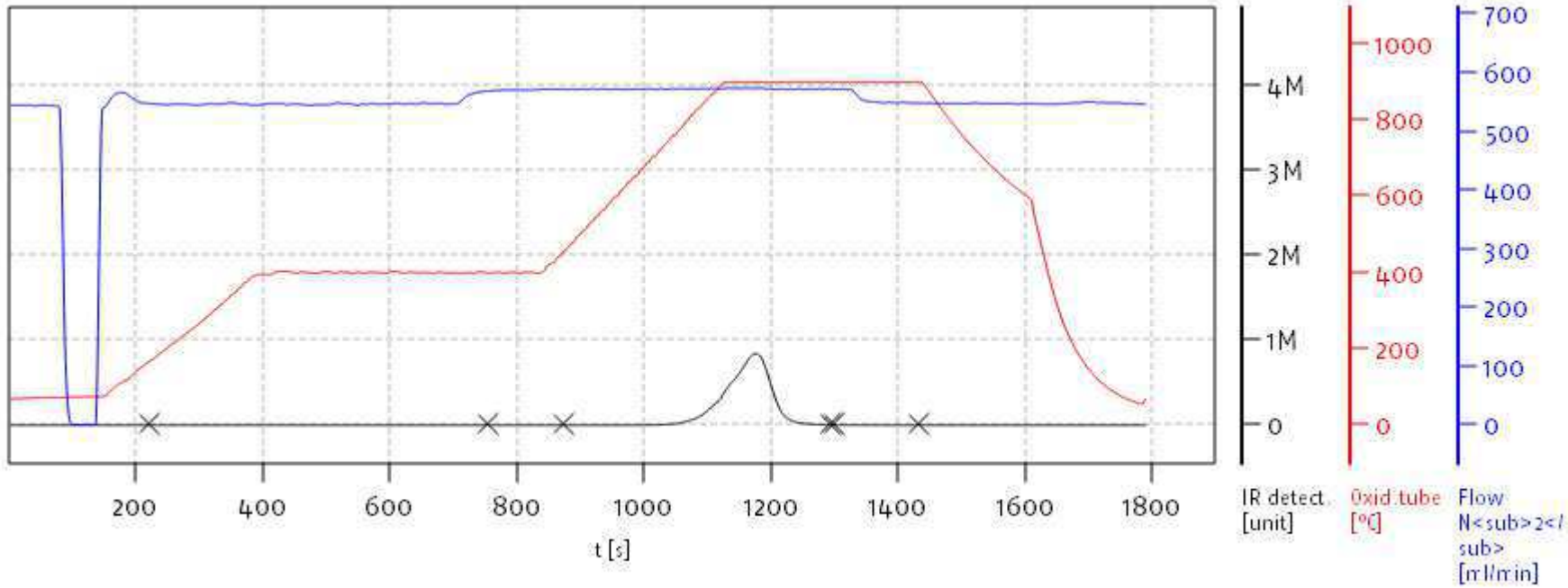
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
20	20	SLE0270-CALI	200.00	0.0300	CARBON	5/17/2023 9:19 PM	bl,C1u,C2u	0.009	2 781	1.981	0.005	3 895	2 498 427	0.004	1.971	1.0000	1.0000



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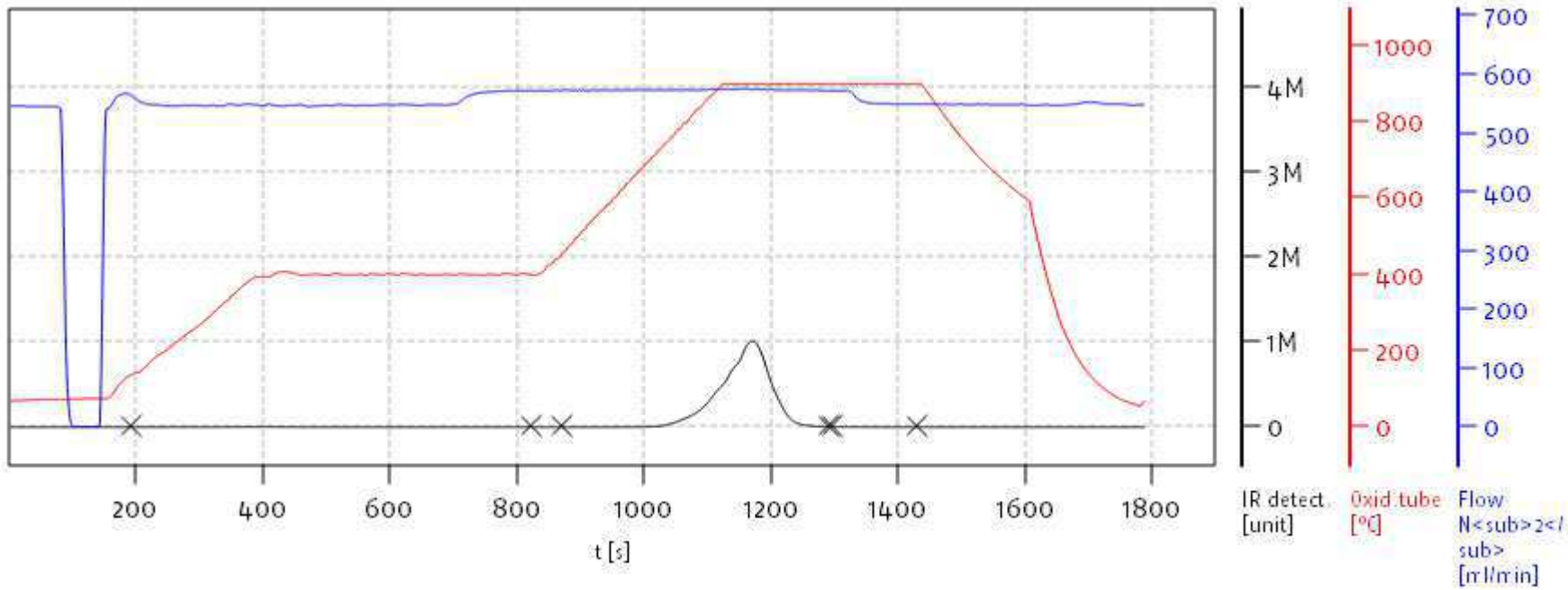
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
21	21	SLE0270-CALJ	200.00	0.0400	CARBON	5/17/2023 9:49 PM	bl,C2u	0.018	13 295	2.629	0.006	4 807	3 309 588	0.013	2.611	1.0000	1.0000



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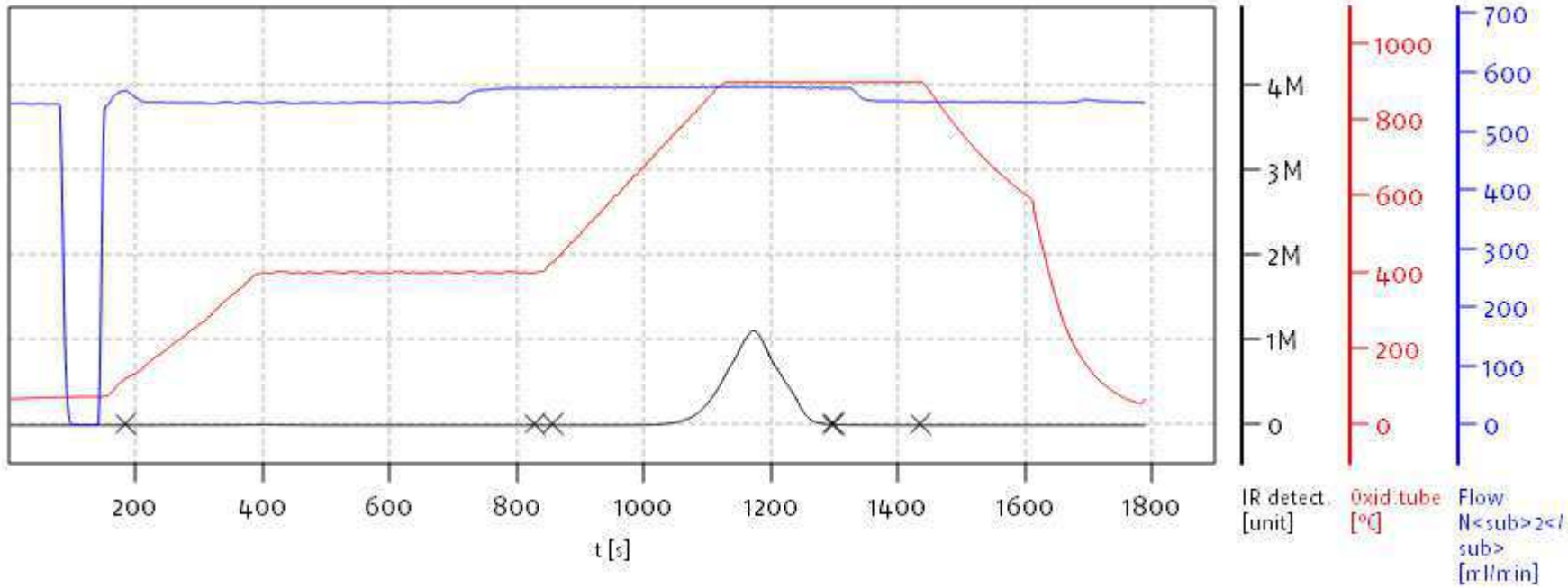
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
22	22	SLE0270-CALK	200.00	0.0500	CARBON	5/17/2023 10:19 PM	bl	0.031	25 022	3.285	0.009	9 148	4 126 050	0.022	3.254	1.0000	1.0000



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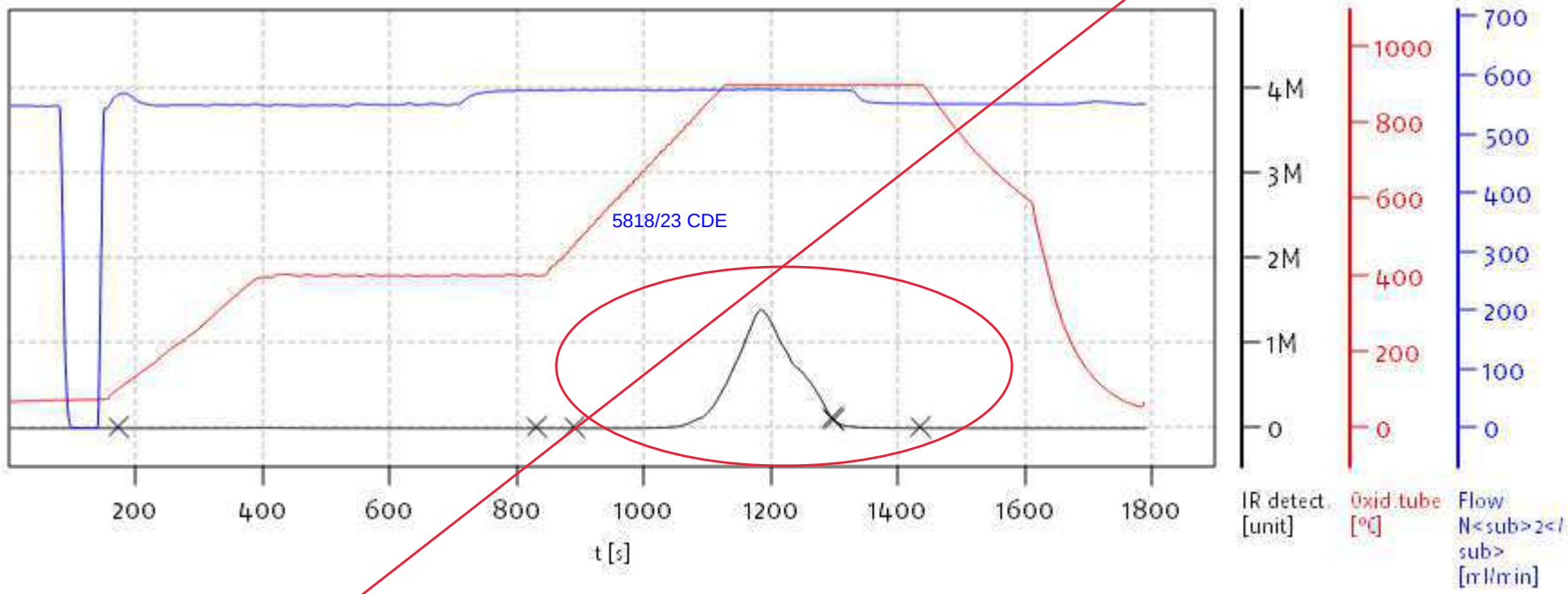
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
23	23	SLE0270-CALL	200.00	0.0700	CARBON	5/17/2023 10:49 PM	bl	0.069	21 598	4.597	0.050	60 794	5 741 652	0.019	4.528	1.0000	1.0000



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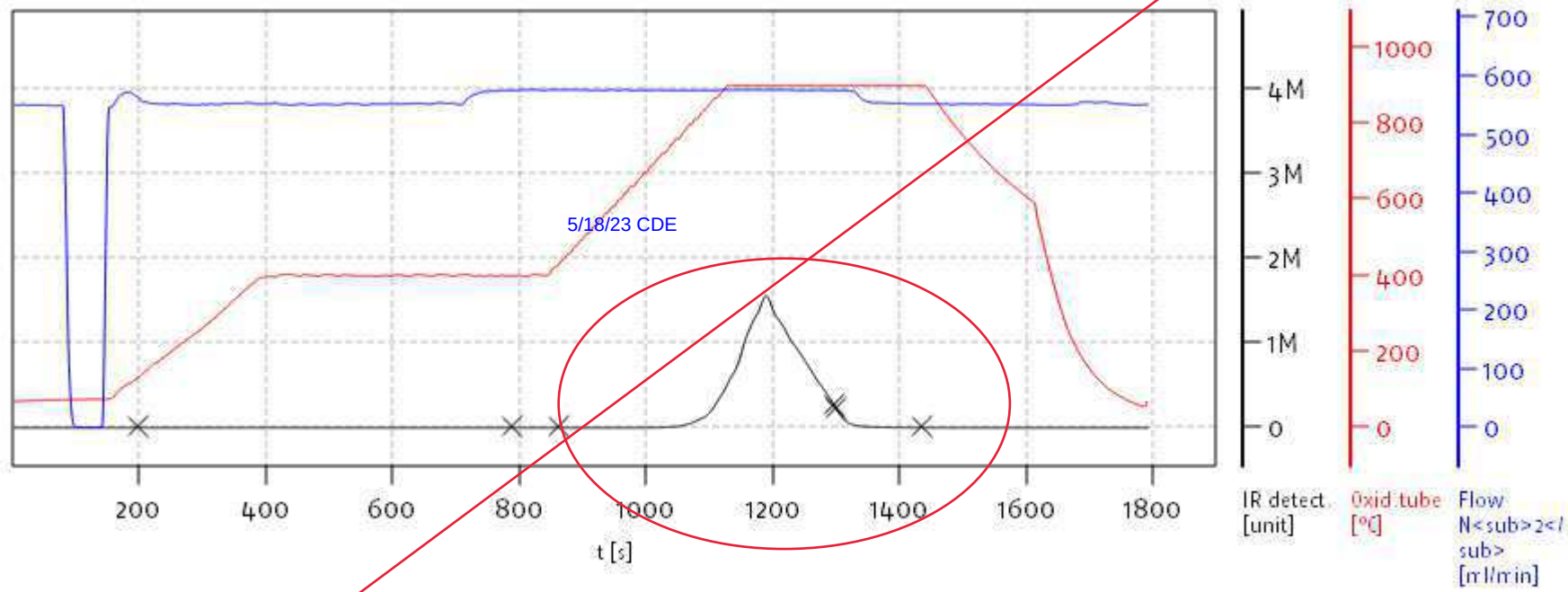
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
24	24	SLE0270-CALM	200.00	0.0800	CARBON	5/17/2023 11:19 PM	bl,C1u	0.112	5 408	5.212	0.106	131 494	6 467 914	0.006	5.100	1.0000	1.0000



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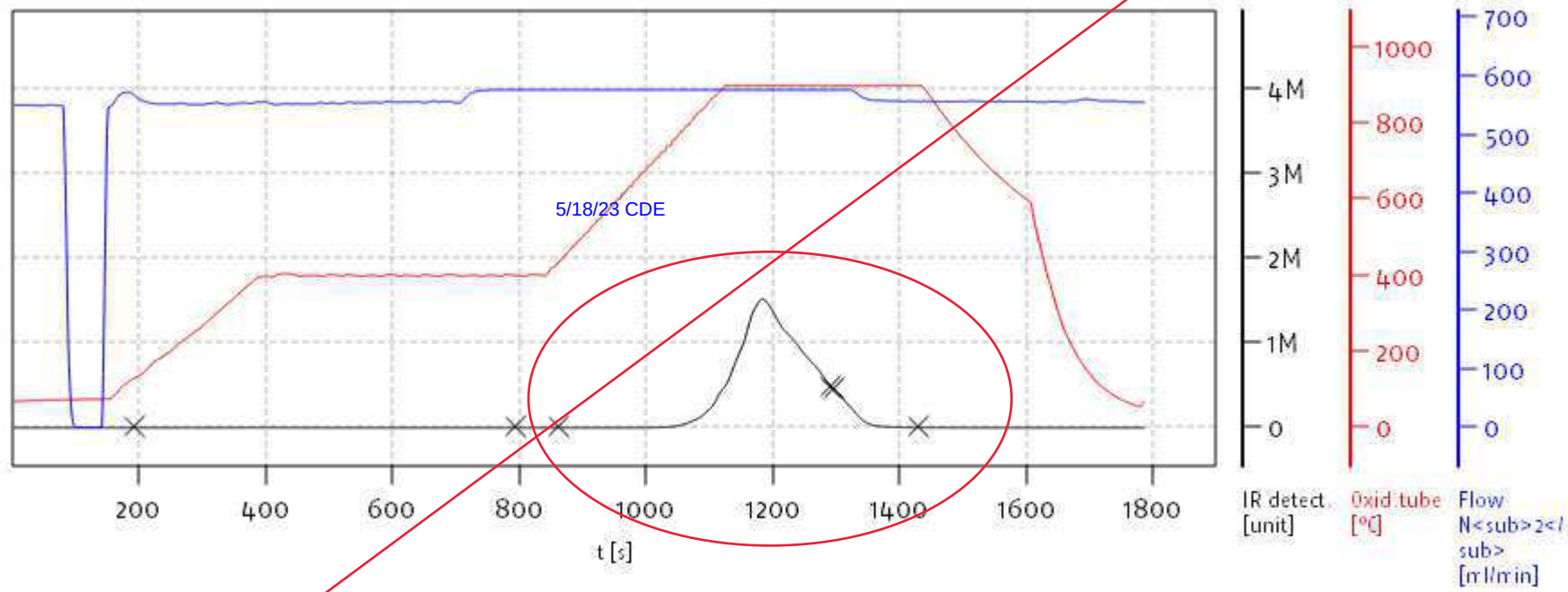
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
25	25	SLE0270-CALN	200.00	0.0900	CARBON	5/17/2023 11:50 PM	bl	0.408	8 745	5.832	0.399	503 842	6 879 212	0.009	5.424	1.0000	1.0000



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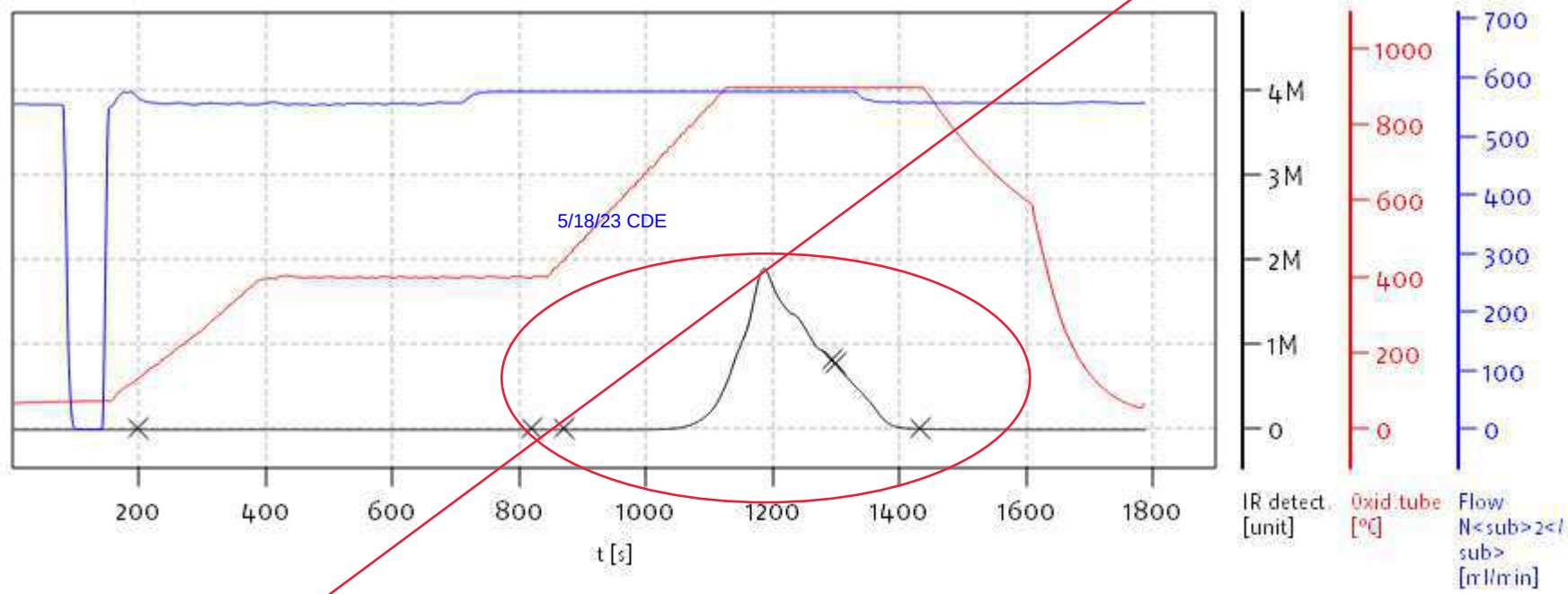
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
26	26	SLE0270-CALO	200.00	0.1200	CARBON	5/18/2023 12:20 AM	bl,C1u	1.074	6 993	7.759	1.066	1 350 231	8 478 912	0.008	6.685	1.0000	1.0000



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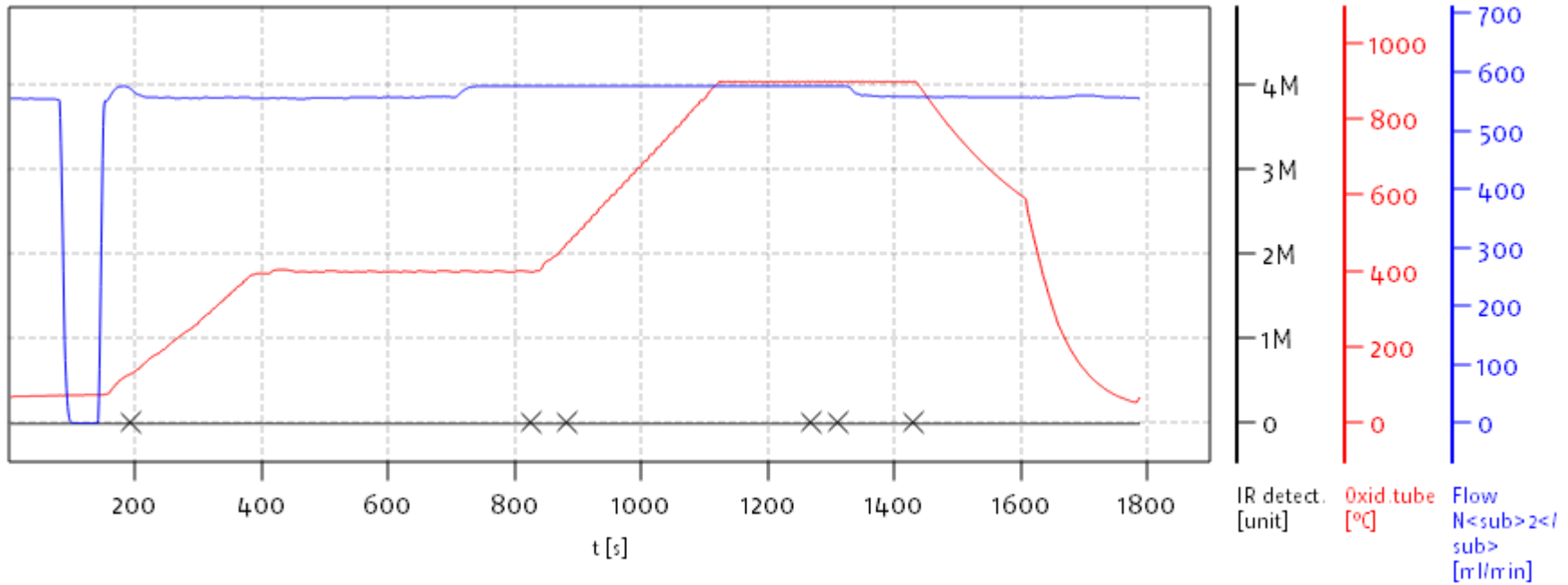
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
27	27	BLANK	1.00		CARBON	5/ 18/2023 12:50 AM	bl	0.000	5 379	0.000	0.000	0	959	0.000	0.000	1.0000	1.0000



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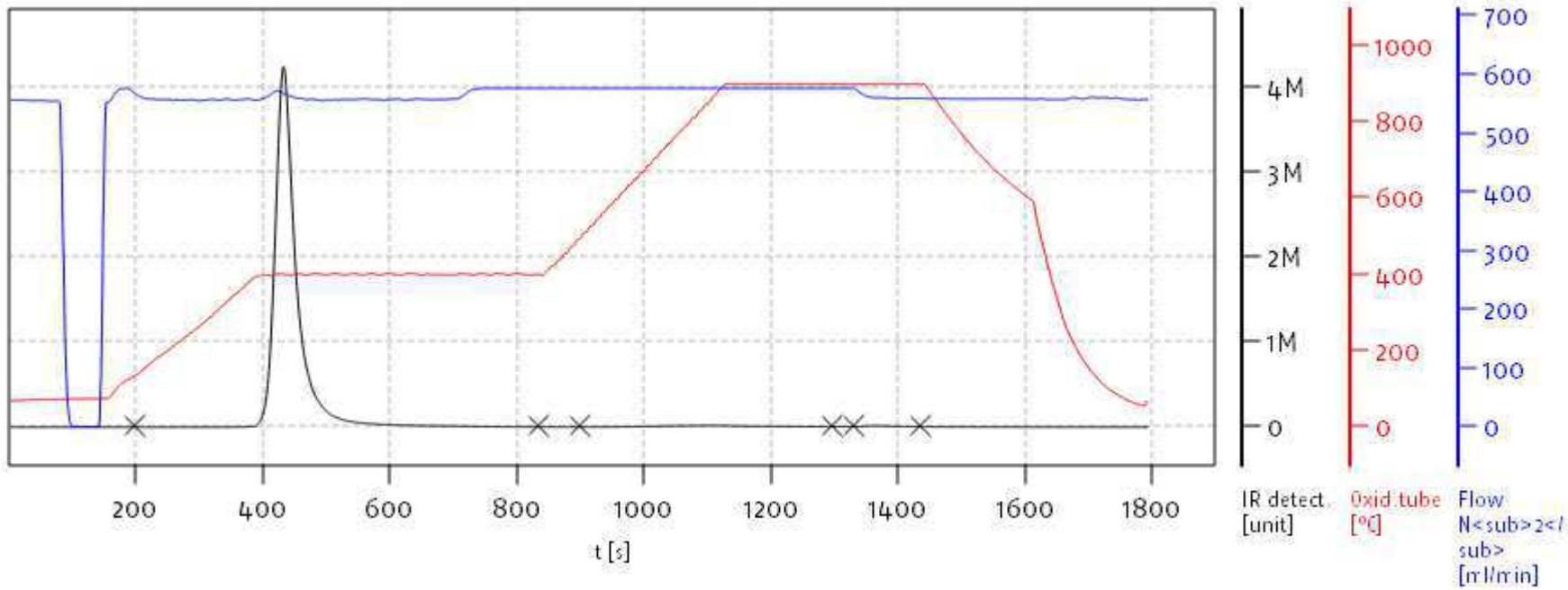
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
28	28	Dfactor	21.70		CARBON	5/18/2023 1:20 AM	bl	44.736	6 218 209	45.755	0.291	37 376	137 647	44.446	1.019	0.9835	1.0000



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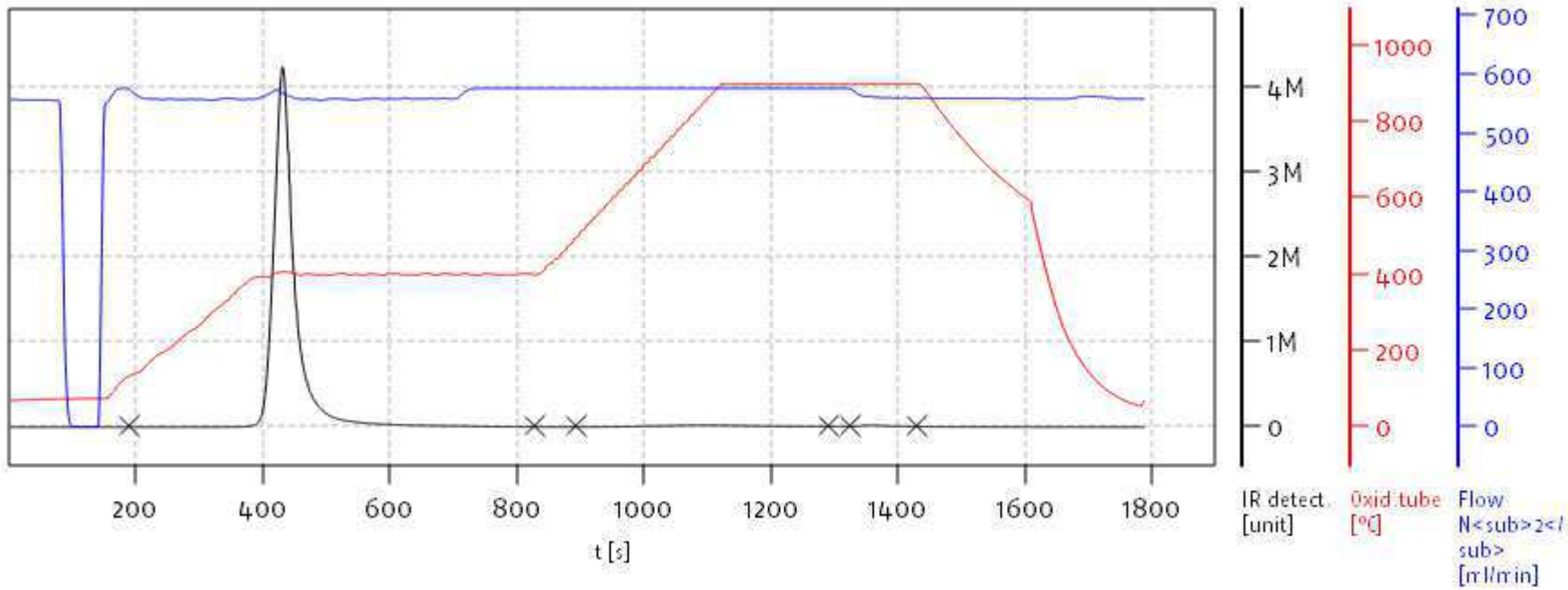
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
29	29	Dfactor	21.20		CARBON	5/18/2023 1:50 AM	bl	44.824	6 030 884	46.116	0.378	48 254	171 095	44.446	1.292	0.9907	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
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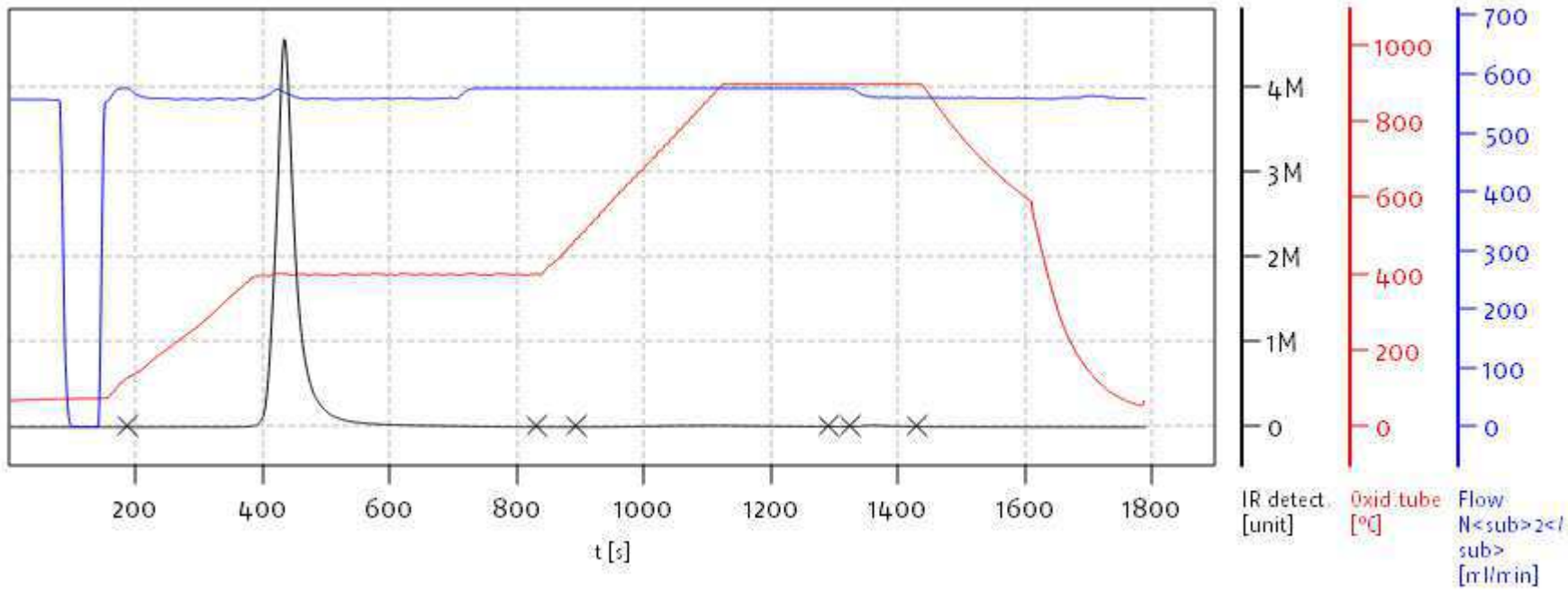
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
30	30	SLE0270-ICV1	22.30		CARBON	5/18/2023 2:21 AM	bl	44.949	6 392 325	46.022	0.327	43 597	149 127	44.622	1.073	0.9871	1.0000



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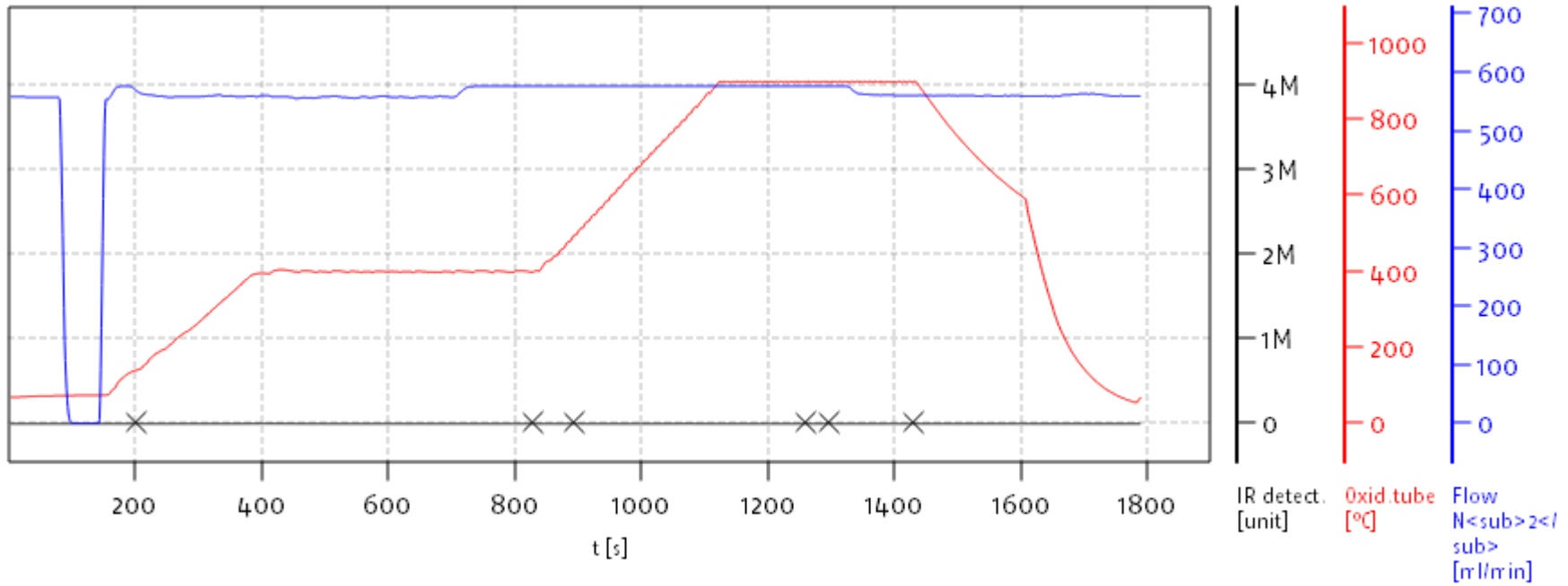
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
31	31	SLE0270-ICB1	530.50		CARBON	5/18/2023 2:51 AM	bl,C1u,C3u,C2u	0.003	6 198	0.005	0.001	198	1 900	0.003	0.001	0.9871	1.0000



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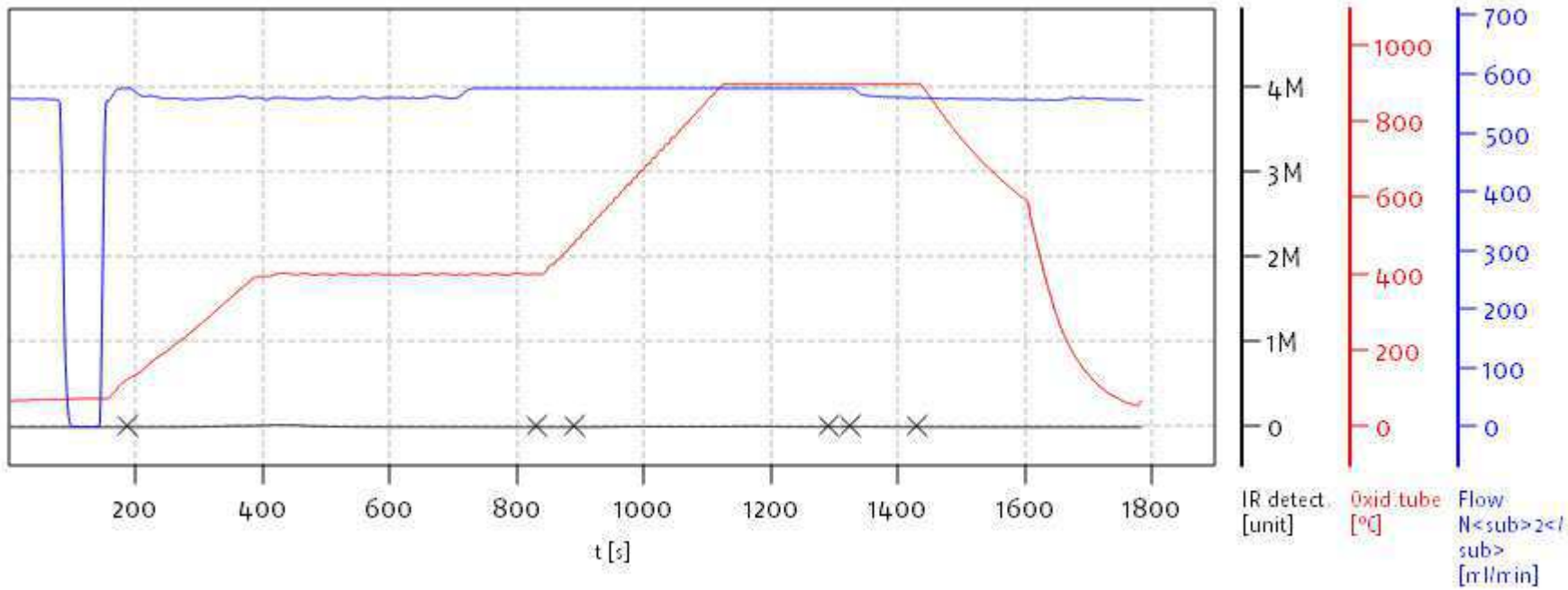
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
32	32	23D0491-10	42.50		CARBON	5/18/2023 3:21 AM	bl	0.560	138 129	0.841	0.044	9 353	73 148	0.515	0.281	0.9871	1.0000



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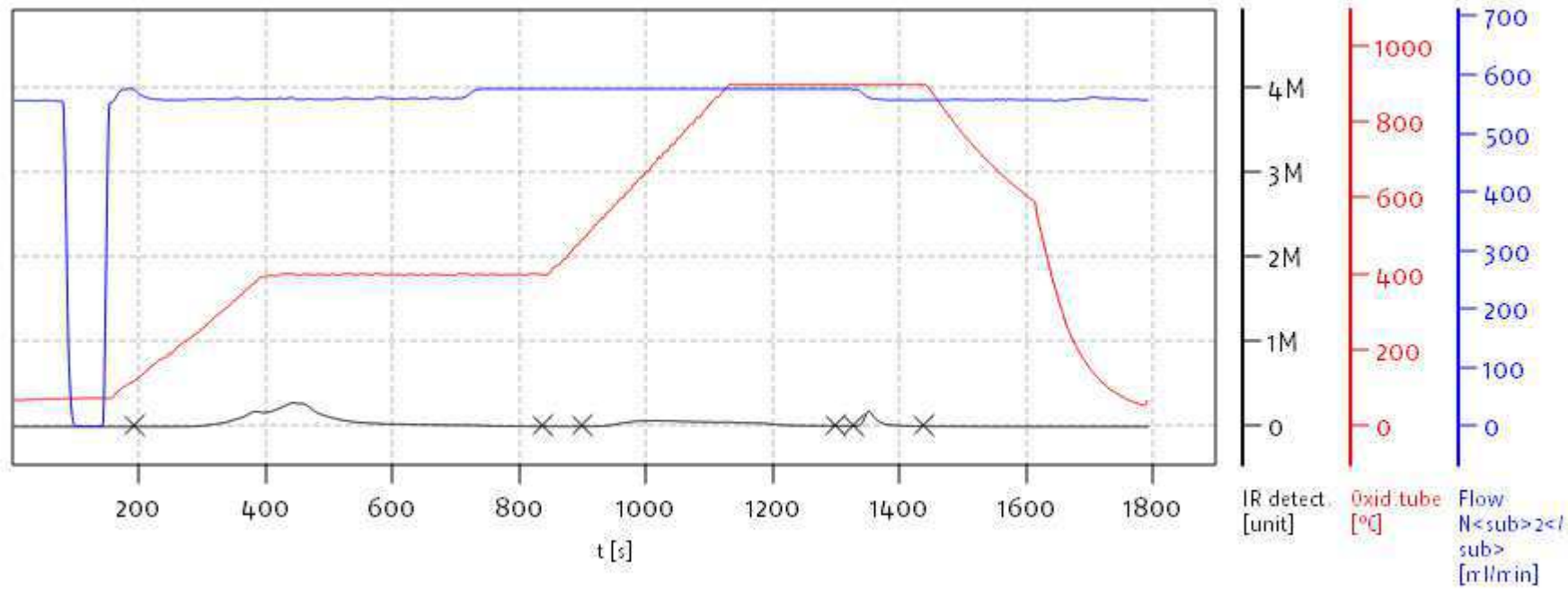
Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
33	33	23D0491-10RE1	505.50		CARBON	5/18/2023 3:51 AM	bl	0.513	1 489 627	0.692	0.054	169 645	569 728	0.459	0.178	0.9871	1.0000



Name:

Access: soliTOC superuser

Date: Thu May 18 09:43:39 2023

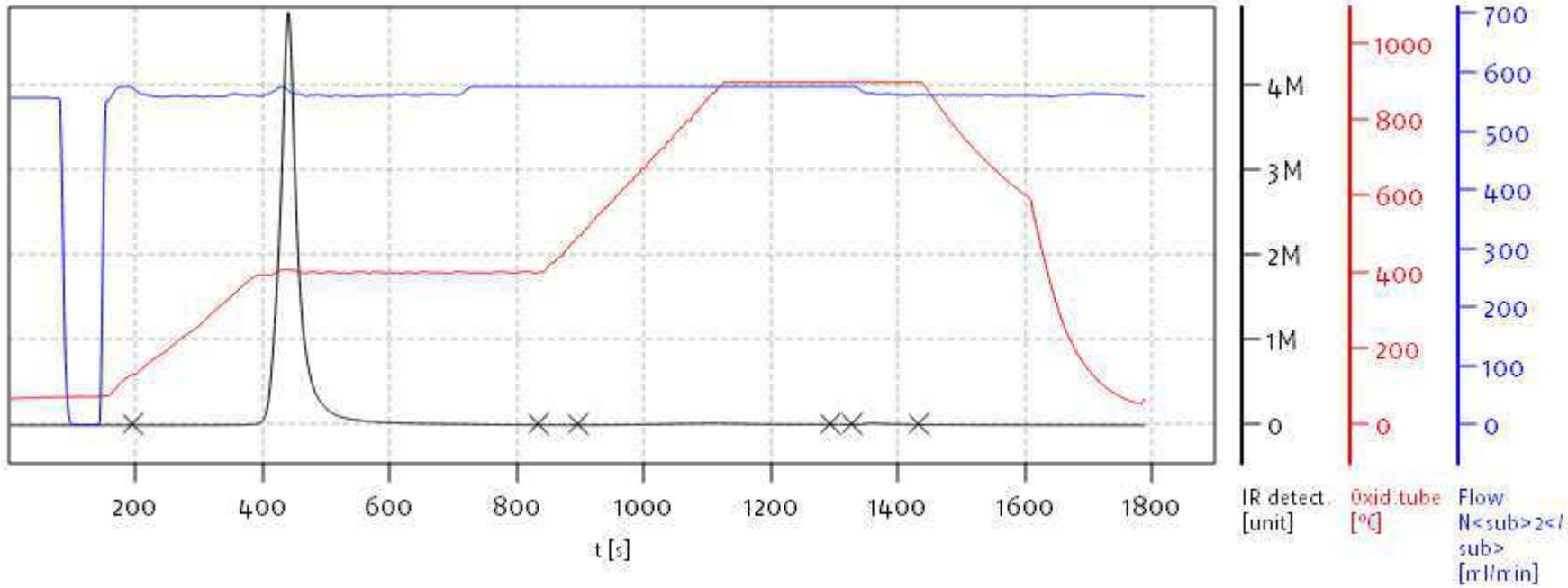
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
34	34	SLE0270-CCV1	22.20		CARBON	5/18/2023 4:21 AM	bl	44.616	6 309 271	45.769	0.375	50 146	159 806	44.241	1.153	0.9871	1.0000



Name:

Access: soliTOC superuser

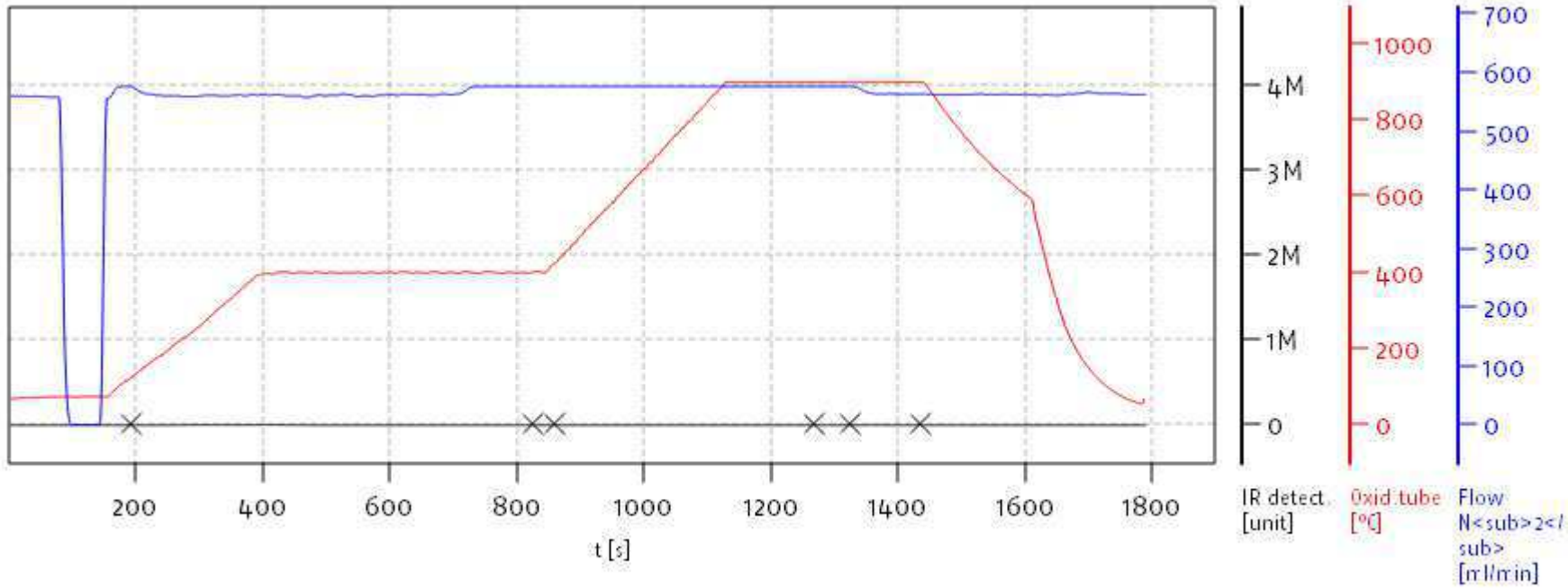
Date: Thu May 18 09:43:39 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
35	35	SLE0270-CCB1	523.30		CARBON	5/18/2023 4:52 AM	bl,C3u,C2u	0.009	22 128	0.010	0.001	2 335	2 184	0.007	0.001	0.9871	1.0000



Name:

Access: soliTOC superuser

Date: Thu May 18 09:43:39 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
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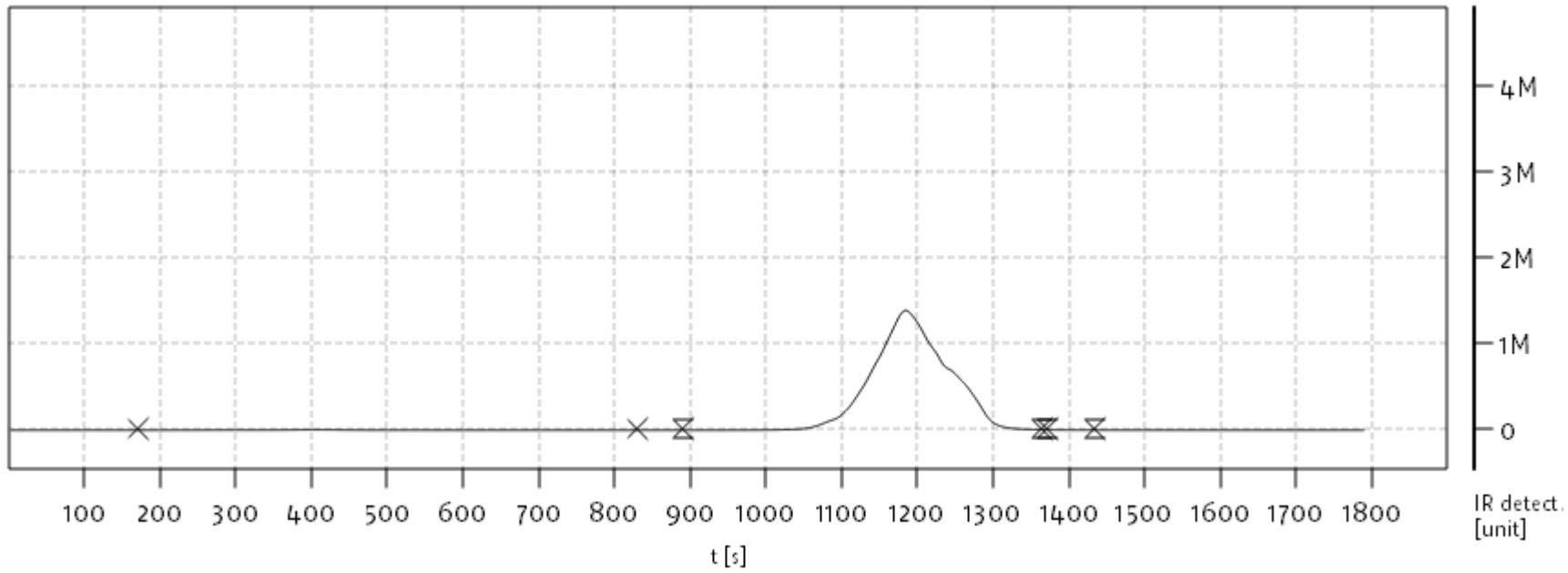
Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
23	23	SLE0270-CALL	200.00	0.0700	CARBON	5/18/2023 9:47 AM	bl	0.019	21 598	4.386	0.000	**0**	**5 538 028**	0.019	4.367	1.0000	1.0000



Name:

Access: soliTOC superuser

Date: Thu May 18 09:50:12 2023

elementar
EXCELLENCE IN ELEMENTS

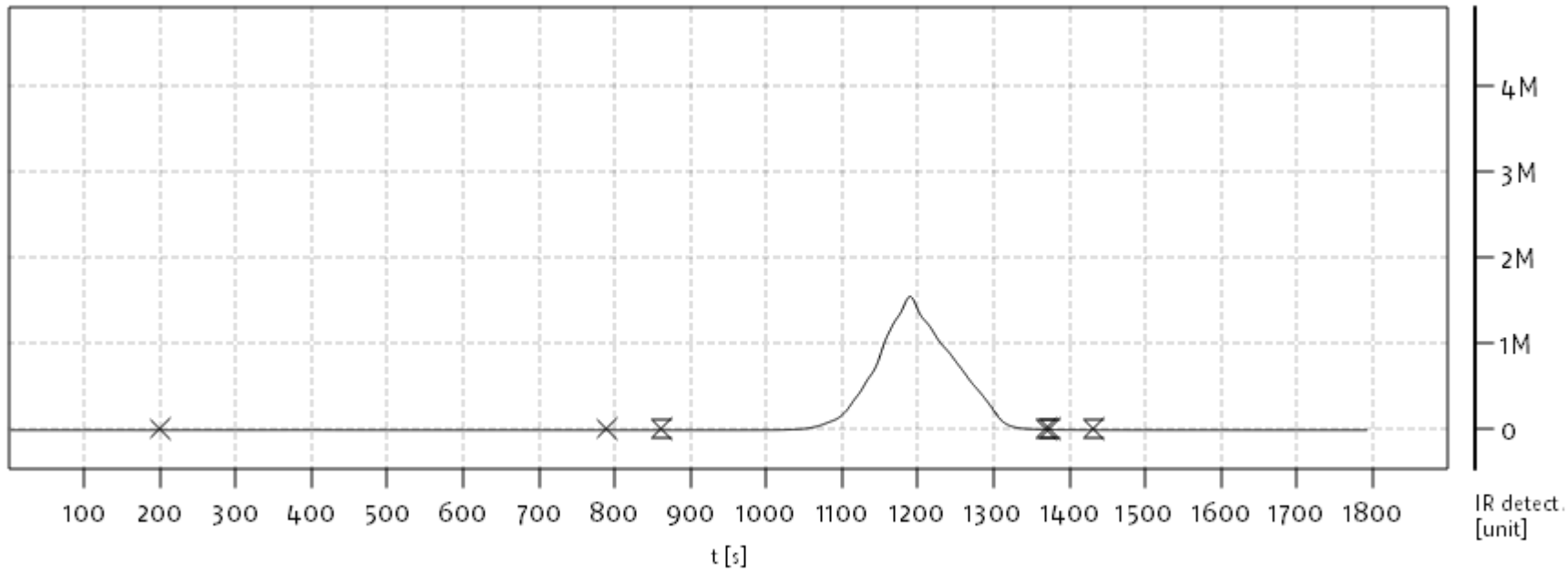
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
24	24	SLE0270-CALM	200.00	0.0800	CARBON	5/18/2023 9:48 AM	bl,C1u	0.006	5 408	4.784	0.000	**0**	**6 058 878**	0.006	4.778	1.0000	1.0000



Name:

Access: soliTOC superuser

Date: Thu May 18 09:50:12 2023

elementar
EXCELLENCE IN ELEMENTS

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Serial No: 0300.181017
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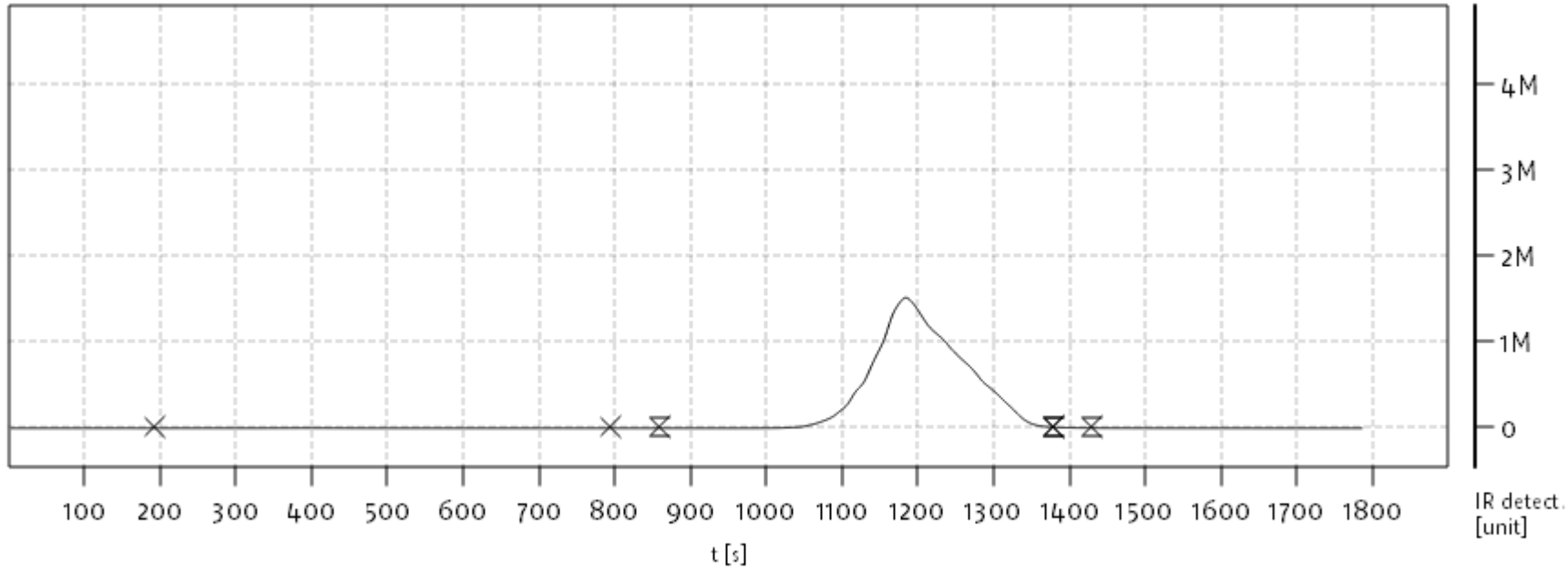
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
25	25	SLE0270-CALN	200.00	0.0900	CARBON	5/18/2023 9:49 AM	bl	0.009	8 745	5.379	0.000	**0**	**6 810 985**	0.009	5.370	1.0000	1.0000



Name:

Access: soliTOC superuser

Date: Thu May 18 09:50:12 2023

elementar
EXCELLENCE IN ELEMENTS

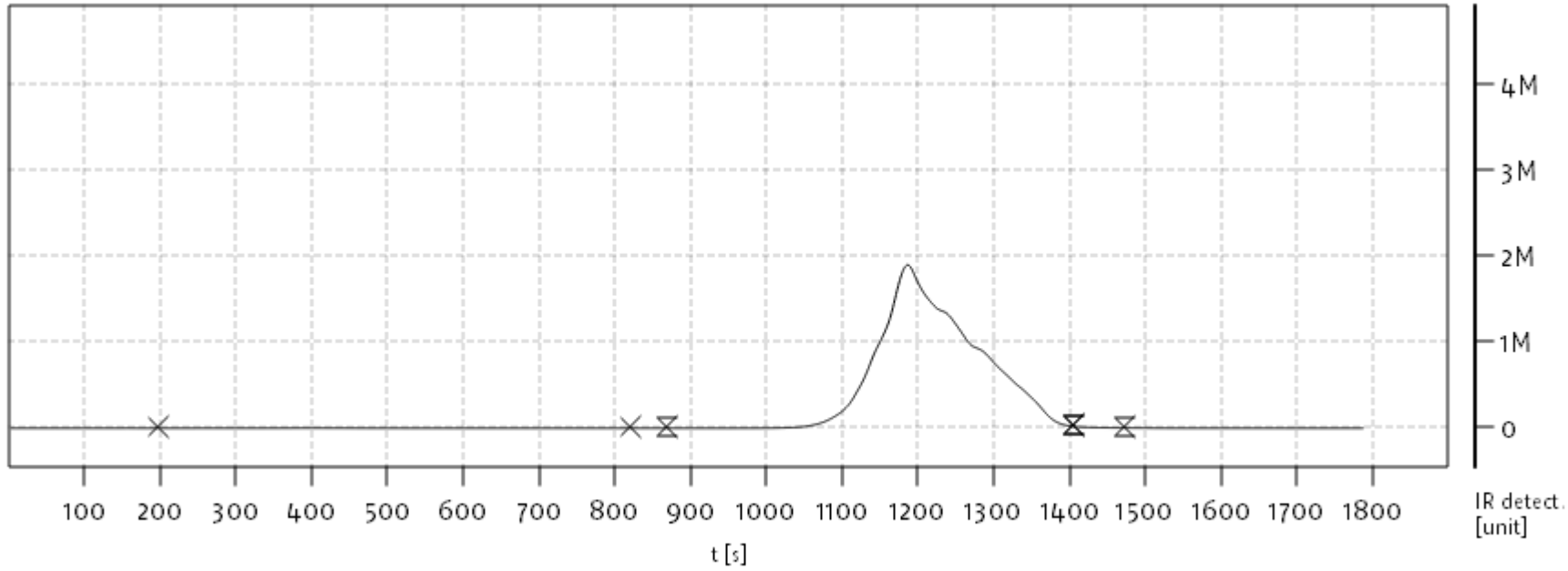
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
26	26	SLE0270-CALO	200.00	0.1200	CARBON	5/18/2023 9:49 AM	bl,C1u,C3o	0.008	6 993	7.291	0.000	0	9 238 066	0.008	7.283	1.0000	1.0000



Name:

Access: soliTOC superuser

Date: Thu May 18 09:50:12 2023

elementar
EXCELLENCE IN ELEMENTS

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

INSTRUMENT BLANKS
EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: TOC Cube
Calibration: GE00052
Sequence: SLE0228
Date Analyzed: 05/19/23 13:36

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0228-ICB1	Total Organic Carbon	0.00	0.02	0.02	%	
SLE0228-CCB1	Total Organic Carbon	0.00	0.02	0.02	%	
SLE0228-CCB2	Total Organic Carbon	0.00	0.02	0.02	%	
SLE0228-CCB3	Total Organic Carbon	0.00	0.02	0.02	%	
SLE0228-CCB4	Total Organic Carbon	0.00	0.02	0.02	%	
SLE0228-CCB5	Total Organic Carbon	0.00	0.02	0.02	%	
SLE0228-CCB6	Total Organic Carbon	0.00	0.02	0.02	%	

INSTRUMENT BLANKS
EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: TOC Cube
Calibration: GE00052
Sequence: SLE0270
Date Analyzed: 05/18/23 02:51

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0270-ICB1	Total Organic Carbon	0.003	0.02	0.02	%	
SLE0270-CCB1	Total Organic Carbon	0.009	0.02	0.02	%	

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: TOC Cube
Calibration: GE00052
Control Limt: +/- 10.00%
Sequence: SLE0228

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0228-ICV1	Total Organic Carbon	44.446	44.4	99.8	%	EPA 9060A m
SLE0228-CCV1	Total Organic Carbon	44.446	45.3	102	%	EPA 9060A m
SLE0228-CCV2	Total Organic Carbon	44.446	44.9	101	%	EPA 9060A m
SLE0228-CCV3	Total Organic Carbon	44.446	43.4	97.7	%	EPA 9060A m
SLE0228-CCV4	Total Organic Carbon	44.446	44.8	101	%	EPA 9060A m
SLE0228-CCV5	Total Organic Carbon	44.446	44.8	101	%	EPA 9060A m
SLE0228-CCV6	Total Organic Carbon	44.446	46.0	103	%	EPA 9060A m

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: TOC Cube
Calibration: GE00052
Control Limt: +/- 10.00%
Sequence: SLE0270

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0270-ICV1	Total Organic Carbon	44.446	45.4	102	%	EPA 9060A m
	Total Carbon	44.446	45.4	102	%	EPA 9060A m
	Total Inorganic Carbon	0.0000	45.4		%	EPA 9060A m
	% Soot	0.0000	45.4		%	EPA 9060A m
SLE0270-CCV1	Total Organic Carbon	44.446	45.2	102	%	EPA 9060A m
	Total Carbon	44.446	45.2	102	%	EPA 9060A m
	Total Inorganic Carbon	0.0000	45.2		%	EPA 9060A m
	% Soot	0.0000	45.2		%	EPA 9060A m

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BLE0415-SRM1
Batch: BLE0415
Initial/Final: 0.1599 g / 0.1599 g
Preparation: No Prep Wet Chem
Analyzed: 05/19/2023 17:37
Standard ID: L000790
Expires: 05/19/2024
Standard Lot#: NA
Description: 1941B - Organics in Marine Sediment (Conv

ANALYTE	TRUE (% wet)	FOUND (% wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Total Organic Carbon	2.9900	2.87	0.02	0.02		96.1	80 - 120

* Values outside of QC limits

HOLDING TIME SUMMARY

Analysis: EPA 9060A m

Laboratory: Analytical Resources, LLC SDG: 23C0752

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

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1026 23C0752-01	03/30/23 10:37	03/30/23 16:25	05/13/23 14:02	44	14	05/20/23 10:11			*
LDW23-SS1125 23C0752-02	03/30/23 11:10	03/30/23 16:25	05/13/23 14:02	44	14	05/20/23 14:12			*
LDW23-SS1132 23C0752-03	03/30/23 11:30	03/30/23 16:25	05/13/23 14:02	44	14	05/20/23 14:43			*
LDW23-SS1810 23C0752-04	03/30/23 10:36	03/30/23 16:25	05/13/23 14:02	44	14	05/20/23 15:13			*
LDW23-SC1810 23C0752-05	03/30/23 11:00	03/30/23 16:25	05/13/23 14:02	44	14	05/20/23 15:43			*
LDW23-SS1809 23C0752-06	03/30/23 14:30	03/30/23 16:25	05/13/23 14:02	43	14	05/20/23 16:13			*
LDW23-SC1809 23C0752-07	03/30/23 14:55	03/30/23 16:25	05/13/23 14:02	43	14	05/20/23 16:43			*
Duplicate BLE0415-DUP1	03/30/23 10:37	03/30/23 16:25	05/13/23 14:02	44	14	05/20/23 10:41			*
Matrix Spike BLE0415-MS1	03/30/23 10:37	03/30/23 16:25	05/13/23 14:02	44	14	05/20/23 11:11			*

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23C0752
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: TOC Cube

Analyte	MDL	RL	Units
Total Organic Carbon	0.02	0.02	%

National Institute of Standards & Technology

Certificate of Analysis

Standard Reference Material® 1941b

Organics in Marine Sediment

This Standard Reference Material (SRM) is marine sediment collected at the mouth of the Baltimore (MD) Harbor. SRM 1941b is intended for use in evaluating analytical methods for the determination of selected polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and chlorinated pesticides in marine sediment and similar matrices. Information values are also provided for total organic carbon (TOC), total carbon, hydrogen, and nitrogen. All of the constituents for which certified, reference, and information values are provided in SRM 1941b were naturally present in the sediment before processing. A unit of SRM 1941b consists of a bottle containing 50 g of radiation-sterilized, freeze-dried sediment.

Certified Mass Fraction Values: Certified mass fraction values for PAHs, PCB congeners, and chlorinated pesticides are provided in Table 1 through Table 3. The certified values for the PAHs, PCB congeners, and chlorinated pesticides are based on the agreement of results obtained at NIST from two or more chemically independent analytical techniques along with results from an interlaboratory comparison study [1]. A NIST certified value is a value for which NIST has the highest confidence in its accuracy in that all known or suspected sources of bias have been investigated or taken into account [1].

Reference Mass Fraction Values: Reference mass fraction values for additional PAHs (some in combination), additional PCB congeners, and additional chlorinated pesticides are provided in Table 4 through Table 7. Reference values for alkylated PAH groups are provided in Table 8 and for selected hopanes and steranes in Table 9. A reference value for total organic carbon is provided in Table 10. Reference values are noncertified values that are the best estimate of the true value; however, the values do not meet the NIST criteria for certification and are provided with associated uncertainties that may reflect only measurement precision, may not include all sources of uncertainty, or may reflect a lack of sufficient statistical agreement among multiple analytical methods [1].

Information Mass Fraction Values: Information mass fraction values are provided in Table 11 for carbon, hydrogen, and nitrogen. An information value is considered to be a value that will be of use to the SRM user, but insufficient information is available to assess the uncertainty associated with the value [1]. Information values cannot be used to establish metrological traceability.

Expiration of Certification: The certification of **SRM 1941b** is valid, within the measurement uncertainty specified, until **01 October 2020**, provided the SRM is handled and stored in accordance with the instructions given in this certificate (see "Instructions for Handling, Storage, and Use"). This certification is nullified if the SRM is damaged, contaminated, or otherwise modified.

Maintenance of SRM Certification: NIST will monitor this SRM over the period of its certification. If substantive technical changes occur that affect the certification before the expiration of this certificate, NIST will notify the purchaser. Registration (see attached sheet or register online) will facilitate notification.

Coordination of the technical measurements leading to the certification of this material was under the leadership of M.M. Schantz and S.A. Wise of the NIST Chemical Sciences Division.

Analytical measurements for the certification of SRM 1941b were performed at NIST by J.R. Kucklick, B.J. Porter, D.L. Poster, M.M. Schantz, P. Schubert, S. Tutschku, and L.L. Yu of the NIST Chemical Sciences Division.

Carlos A. Gonzalez, Chief
Chemical Sciences Division

Gaithersburg, MD 20899
Certificate Issue Date: 16 January 2015

Robert L. Watters, Jr., Director
Office of Reference Materials

Measurements for TOC were provided by a commercial laboratory and T.L. Wade of the Geochemical and Environmental Research Group, Texas A&M University (College Station, TX). The carbon, hydrogen, and nitrogen data were provided by a commercial laboratory. Results for the PAHs, PCBs, and chlorinated pesticides from 38 laboratories (see Appendix A) that participated in an interlaboratory comparison exercise coordinated by NIST were used. Results for the alkylated PAH groups, hopanes, and steranes from 33 laboratories (see Appendix B) that participated in another interlaboratory comparison exercise coordinated by NIST were also used.

Collection and preparation of SRM 1941b were performed by M.P. Cronise and C.N. Fales of the NIST Office of Reference Materials and B.J. Porter and M.M. Schantz of the NIST Chemical Sciences Division. The sediment material was collected with the assistance of G.G. Lauenstein, J. Collier, and J. Lewis (National Oceanic and Atmospheric Administration, Silver Spring, MD).

Consultation on the statistical design of the experimental work and evaluation of the data were provided by S.D. Leigh and J.H. Yen of the NIST Statistical Engineering Division.

Support aspects involved in the issuance of this SRM were coordinated through the NIST Office of Reference Materials.

INSTRUCTIONS FOR HANDLING, STORAGE, AND USE

Handling: This material is naturally occurring marine sediment from an urban area and may contain constituents of unknown toxicities; therefore, caution and care should be exercised during its handling and use.

Storage: SRM 1941b must be stored in its original bottle at temperatures less than 30 °C and away from direct sunlight.

Use: Prior to removal of subsamples for analysis, the contents of the bottle should be mixed. The mass fractions of constituents in SRM 1941b are reported on a dry-mass basis. The SRM, as received, contains a mass fraction of approximately 2.4 % moisture (see "Conversion to Dry-Mass Basis"). The sediment sample should be dried to a constant mass before weighing for analysis; or a separate subsample of the sediment should be removed from the bottle at the time of analysis and dried to determine the mass fraction on a dry-mass basis. If the constituents of interest are volatile, then the moisture must be determined with a separate subsample.

PREPARATION AND ANALYSIS[1]

Sample Collection and Preparation: The sediment used to prepare this SRM was collected from the Chesapeake Bay at the mouth of the Baltimore (MD) Harbor near the Francis Scott Key Bridge (39°12.3'N and 76°31.4'W). This location is very near the site where SRM 1941 and SRM 1941a were collected. The sediment was collected using a Kynar-coated modified Van Veen-type grab sampler. A total of approximately 3300 kg of wet sediment was collected from the site. The sediment was freeze-dried, sieved at 150 μm (100 % passing), homogenized in a cone blender, radiation sterilized (^{60}Co), and then packaged in screw-capped amber glass bottles each containing approximately 50 g.

Conversion to Dry-Mass Basis: The results for the constituents in SRM 1941b are reported on a dry-mass basis; however, the material "as received" contains residual moisture. The amount of moisture in SRM 1941b was determined by measuring the mass loss after freeze-drying subsamples of 1.1 g to 1.3 g for four days at 1 Pa with a –10 °C shelf temperature and a –50 °C condenser temperature. The moisture content in SRM 1941b at the time of the certification analyses was 2.39 % ± 0.08 % (95 % confidence level). Analytical results for the organic constituents were determined on an as-received basis and then converted to a dry-mass basis by dividing by the conversion factor of 0.9761 (gram dry mass per gram as-received mass).

Polycyclic Aromatic Hydrocarbons: The general approach used for the value assignment of the PAHs in SRM 1941b was similar to that reported in detail elsewhere [2]. The approach consisted of combining results from analyses using various combinations of different extraction techniques and solvents, clean-up/isolation procedures, and chromatographic separation and detection techniques: Soxhlet extraction and pressurized-fluid extraction (PFE) using dichloromethane (DCM) or a hexane/acetone mixture, cleanup of the extracts using solid-phase extraction (SPE) or normal-phase liquid chromatography (LC), followed by analysis using the following techniques: (1) reversed-phase liquid chromatography with fluorescence detection (LC-FL) analysis of the total PAH fraction, (2) reversed-phase

[1] Certain commercial equipment, instruments or materials are identified in this certificate to adequately specify the experimental procedure. Such identification does not imply recommendation or endorsement by the National Institute of Standards

LC-FL analysis of isomeric PAH fractions isolated by normal-phase LC (i.e., multidimensional LC), (3) gas chromatography/mass spectrometry (GC/MS) analysis of the PAH fraction on three stationary phases of different selectivity, i.e., a 5 % (all column compositions are given as mole fractions in %) phenyl-substituted methylpolysiloxane phase, a 50 % phenyl-substituted methylpolysiloxane phase, and a relatively non-polar proprietary phase.

Three sets of GC/MS results, designated as GC/MS (I), GC/MS (II), and GC/MS (III), were obtained using three columns with different selectivities for the separation of PAHs. For GC/MS (I) analyses, duplicate subsamples of approximately 1 g from ten bottles of SRM 1941b were extracted using PFE with DCM. Copper powder was added to the extract to remove elemental sulfur. The concentrated extract was passed through an aminopropyl SPE cartridge and eluted with 2 % DCM in hexane (all solvent concentrations are given as volume fractions in %). The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5 MS, J&W Scientific, Folsom, CA). The GC/MS (II) analyses were performed using 5 g subsamples from six bottles of SRM 1941b. These samples were extracted using PFE with DCM. The high molecular mass compounds were removed from the extracts using size exclusion chromatography (SEC) with a preparative-scale divinylbenzene-polystyrene column (10 μm particle size with 10 nm diameter pores), and the sulfur was removed from the extracts by adding copper powder. The concentrated extract was passed through an aminopropyl SPE cartridge and eluted with 10 % DCM in hexane. The analysis was by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 50 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-17 MS, J&W Scientific). For the GC/MS (III), 9 g subsamples from six bottles of SRM 1941b were Soxhlet-extracted for 18 h with 250 mL of a mixture of 50 % hexane/50 % acetone. Copper powder was added to the extract to remove elemental sulfur, and the concentrated extract was passed through a silica SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a relatively non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific).

Two sets of LC-FL results, designated as LC-FL (total) and LC-FL (isomer), were used in the certification process. For the LC-FL (total), subsamples of approximately 1 g from six bottles of SRM 1941b were extracted using PFE with a mixture of 50 % hexane/50 % acetone. The extracts were concentrated and then processed through an aminopropylsilane SPE cartridge using 2 % DCM in hexane to obtain the total PAH fraction. For the LC-FL (isomer), a 5 g subsample from the six bottles was extracted using PFE with DCM and processed through an aminopropylsilane SPE cartridge using 10 % DCM in hexane; the PAH fraction was then fractionated further on a semi-preparative aminopropylsilane column (μBondapak NH_2, 9 mm i.d. × 30 cm, Waters Associates, Milford, MA) to isolate isomeric PAH fractions as described previously [3–6]. The total PAH fraction and the isomeric PAH fractions were analyzed using a 5 μm particle-size polymeric octadecylsilane (C_{18}) column (4.6 mm i.d. × 25 cm, Hypersil-PAH, Keystone Scientific, Inc., Bellefonte, PA) with wavelength-programmed fluorescence detection [4,5].

For the GC/MS and LC-FL measurements described above, selected perdeuterated PAHs were added to the sediment prior to solvent extraction for use as internal standards for quantification purposes.

In addition to the analyses performed at NIST, SRM 1941b was used in an interlaboratory comparison exercise in 1999 as part of the NIST Intercomparison Exercise Program for Organic Contaminants in the Marine Environment [7]. Results from 38 laboratories that participated in this exercise were used as the sixth data set in the determination of the certified values for PAHs in SRM 1941b. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest.

Homogeneity Assessment for PAHs: The homogeneity of SRM 1941b was assessed by analyzing duplicate samples of approximately 1 g from ten bottles selected by stratified random sampling. Samples were extracted, processed, and analyzed as described above for GC/MS (I). No statistically significant differences among bottles were observed for the PAHs at this sample size.

PAH Isomers of Molecular Mass 300 and 302: For the determination of the molecular mass 300 and 302 isomers, three subsamples of approximately 5 g each were extracted using PFE with DCM. The extracts were then concentrated with a solvent change to hexane and passed through an aminopropyl SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 50 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-17MS, J&W Scientific). Perdeuterated dibenzo[*a,i*]pyrene was added to the sediment prior to extraction for use as an internal standard [8].

PCBs and Chlorinated Pesticides: The general approach used for the determination of PCBs and chlorinated pesticides in SRM 1941b consisted of combining results from analyses using various combinations of different extraction techniques and solvents, cleanup/isolation procedures, and chromatographic separation and detection techniques. Techniques and solvents included Soxhlet extraction and PFE using DCM or a hexane/acetone mixture.

clean-up/isolation using SPE or LC, followed by analysis using GC/MS and gas chromatography with electron capture detection (GC-ECD) on two columns with different selectivity for the separation of PCBs and chlorinated pesticides. The analytical methods are described in detail elsewhere [2].

Six sets of results were obtained and designated as GC-ECD (I) A and B, GC/MS (I) A and B, GC/MS (II), and Interlaboratory Comparison Exercise. For the GC-ECD (I) analyses, approximately 10 g subsamples from six bottles of SRM 1941b were extracted using PFE with DCM. Copper powder was added to the extract to remove elemental sulfur, and SEC, as described above, was used to remove the high molecular mass compounds. The concentrated extract was then fractionated on a semi-preparative aminopropylsilane column to isolate two fractions containing: (1) the PCBs and lower-polarity pesticides and (2) the more polar pesticides. GC-ECD analyses of the two fractions were performed on two columns of different selectivities for PCB separations: 0.25 mm × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5, J&W Scientific), and a 0.25 mm × 60 m fused silica capillary column with a non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific). The results from the 5 % phenyl phase are designated as GC-ECD (IA) and the results from the proprietary phase are designated as GC-ECD (IB). For the GC-ECD analyses, two PCB congeners that are not significantly present in the sediment extract (PCB 103 and PCB 198 [9,10]) and endosulfan I-d_4, 4,4'-DDE-d_8, 4,4'-DD-d_8, and 4,4'-DDT-d_8 were added to the sediment prior to extraction for use as internal standards for quantification purposes.

Two sets of results were obtained by GC/MS. For GC/MS (I), approximately 9 g subsamples from six bottles were Soxhlet- extracted with a mixture of 50 % hexane/50 % acetone for approximately 18 h. Copper powder was added to the extract to remove elemental sulfur, and the concentrated extract was passed through a silica SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS with two ionization modes, electron impact (EI) and negative ion chemical ionization (NICI). The GC/MS EI method, GC/MS (IA), used a 0.25 mm i.d. × 60 m fused silica capillary column with a relatively non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific). The GC/MS NICI method, GC/MS (IB), used a 0.25 mm i.d. × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5MS, J&W Scientific). The GC/MS (II) results were obtained in the same manner as the GC/MS (IA) analyses except that three subsamples were Soxhlet-extracted with DCM for approximately 18 h. For the GC/MS analyses, selected carbon-13 labeled PCB congeners and chlorinated pesticides were added to the sediment prior to extraction for use as internal standards for quantification purposes.

In addition to the analyses performed at NIST, SRM 1941b was used in an interlaboratory comparison exercise in 1999 as part of the NIST Intercomparison Exercise Program for Organic Contaminants in the Marine Environment [7]. Results from 38 laboratories that participated in this exercise were used as the sixth data set in the determination of the certified values for PCB congeners and chlorinated pesticides in SRM 1941b. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest.

The reference value for PCB 77 was determined from a separate fraction. The samples were extracted and processed as for GC-ECD (I) above. The first (PCB and lower-polarity pesticide) fraction from the semi-preparative aminopropylsilane column was further fractionated using a Cosmosil PYE (pyrenylethyl group bonded) column (5 μm particle size, 4.6 mm i.d. × 25 cm ; Phenomenex, Torrance, CA) [11]. Three fractions were collected: the first fraction contained the pesticides and multi-*ortho* PCBs, the second fraction contained the polychlorinated naphthalenes, non-*ortho* PCB congeners, and some mono-*ortho* PCB congeners, and the third fraction removed the residual planar compounds from the column. The second fraction was analyzed by GC/MS NICI using the same column as GC/MS (IB) above. Carbon-13 labeled PCB 77 was used as an internal standard for quantification purposes.

Alkylated PAH Groups, Hopanes, and Steranes: SRM 1941b was used in an interlaboratory comparison exercise in 2011 [12]. Results from 33 laboratories that participated in this exercise were used in the determination of the reference values for alkylated PAH groups, hopanes, and steranes in SRM 1941b. Note that not all laboratories returned data for each analyte. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest. For the alkylated PAHs, the majority of the laboratories (>90 %) used the parent PAH for determination of the response factor for the corresponding alkylated group.

Total Organic Carbon (TOC): Two laboratories provided results for TOC using similar procedures. Briefly, subsamples of approximately 200 mg were reacted with 6 mol/L hydrochloric acid and rinsed with deionized water prior to combustion in a gas fusion furnace. The carbon monoxide and carbon dioxide produced were measured and compared to a blank for calculation of the percent TOC. Each laboratory analyzed subsamples from three bottles of SRM 1941b. One of the laboratories also analyzed three subsamples from three bottles of SRM 1941b for carbon, hydrogen, and nitrogen.

Table 1. Certified Mass Fraction Values for PAHs in SRM 1941b

PAHs	Mass Fractions[a] (µg/kg)		
Naphthalene[b,c,d,e,f,g]	848	±	95[h]
Fluorene[b,c,d,e,f,g]	85	±	15[h]
Phenanthrene[b,c,d,e,f,g]	406	±	44[h]
Anthracene[b,c,d,e,f,g]	184	±	18[h]
3-Methylphenanthrene[b,c,d]	105	±	13[h]
2-Methylphenathrene[b,c,d]	128	±	14[h]
1-Methylphenanthrene[b,c,d,g]	73.2	±	5.9[h]
Fluoranthene[b,c,d,e,f,g]	651	±	50[h]
Pyrene[b,c,d,e,f,g]	581	±	39[h]
Benz[*a*]anthracene[b,c,d,e,f,g]	335	±	25[h]
Chrysene[d,f]	291	±	31[h]
Triphenylene[d,f]	108	±	5[i]
Benzo[*b*]fluoranthene[c,e]	453	±	21[h]
Benzo[*k*]fluoranthene[b,c,d,e]	225	±	18[h]
Benzo[*e*]pyrene[b,c,d,g]	325	±	25[h]
Benzo[*a*]pyrene[b,c,d,f,g]	358	±	17[h]
Perylene[b,c,d,f,g]	397	±	45[h]
Benzo[*ghi*]perylene[b,c,d,f,g]	307	±	45[h]
Indeno[1,2,3-*cd*]pyrene[b,c,d,f,g]	341	±	57[h]
Dibenz[*a,j*]anthracene[b,c,d,f]	48.9	±	4.6[h]
Dibenz[*a,c*]anthracene[c,f]	36.7	±	5.2[h]
Dibenz[*a,h*]anthracene[c,f]	53	±	10[h]
Benzo[*b*]chrysene[b,c,d,f]	53	±	12[h]
Picene[b,c,d]	46.6	±	4.7[h]

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] GC/MS (I) on 5 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.
[c] GC/MS (II) on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.
[d] GC/MS (III) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.
[e] LC-FL (total) of total PAH fraction after PFE with DCM.
[f] LC-FL (isomer) of isomeric PAH fractions after PFE with DCM.
[g] 1999 Interlaboratory Comparison Study [7] with 21 to 29 laboratories submitting data for each PAH.
[h] Certified values are weighted means of the results from two to six analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[i] The certified value is an unweighted mean of the results from two analytical methods. The uncertainty listed with the value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the value is metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table 2. Certified Mass Fraction Values for PCB Congeners[a] in SRM 1941b

PCB Congeners			Mass Fractions[b] (µg/kg)		
PCB	8	(2,4'-Dichlorobiphenyl)[c,d,e,f,g]	1.65	±	0.19[h]
PCB	18	(2,2',5-Trichlorobiphenyl)[c,d,e,f,g]	2.39	±	0.29[h]
PCB	28	(2,4,4'-Trichlorobiphenyl)[c,d,e,f,g]	4.52	±	0.57[h]
PCB	31	(2,4',5-Trichlorobiphenyl)[c,e,f]	3.18	±	0.41[h]
PCB	44	(2,2'3,5'-Tetrachlorobiphenyl)[c,d,e,f,g]	3.85	±	0.20[i]
PCB	49	(2,2'4,5'-Tetrachlorobiphenyl)[c,d,e,f]	4.34	±	0.28[i]
PCB	52	(2,2',5,5'-Tetrachlorobiphenyl)[c,d,e,f,g]	5.24	±	0.28[i]
PCB	66	(2,3',4,4'-Tetrachlorobiphenyl)[c,e,f,g,j]	4.96	±	0.53[i]
PCB	87	(2,2',3,4,5'-Pentachlorobiphenyl)[c,d,f,j]	1.14	±	0.16[h]
PCB	95	(2,2',3,5',6-Pentachlorobiphenyl)[c,e,f,g]	3.93	±	0.62[i]
PCB	99	(2,2',4,4',5-Pentachlorobiphenyl)[c,d,e,f,g]	2.90	±	0.36[i]
PCB	101	(2,2',4,5,5'-Pentachlorobiphenyl)[c,e,f,g,j]	5.11	±	0.34[i]
PCB	105	(2,3,3',4,4'-Pentachlorobiphenyl)[c,d,e,f,g,j]	1.43	±	0.10[i]
PCB	110	(2,3,3',4',6-Pentachlorobiphenyl)[c,e,f,j]	4.62	±	0.36[i]
PCB	118	(2,3',4,4',5-Pentachlorobiphenyl)[c,d,e,f,g,j]	4.23	±	0.19[i]
PCB	128	(2,2',3,3',4,4'-Hexachlorobiphenyl)[c,d,e,f,g,j]	0.696	±	0.044[i]
PCB	138	(2,2',3,4,4',5'-Hexachlorobiphenyl)[c,e,f,j]	3.60	±	0.28[i]
PCB	149	(2,2',3,4',5',6-Hexachlorobiphenyl)[c,d,e,j]	4.35	±	0.26[h]
PCB	153	(2,2',4,4',5,5'-Hexachlorobiphenyl)[c,d,e,f,g,j]	5.47	±	0.32[i]
PCB	156	(2,3,3',4,4',5-Hexachlorobiphenyl)[c,d,e,f,j]	0.507	±	0.090[h]
PCB	170	(2,2',3,3',4,4',5-Heptachlorobiphenyl)[c,d,e,f,g,j]	1.35	±	0.09[i]
PCB	180	(2,2',3,4,4',5,5'-Heptachlorobiphenyl)[c,d,e,f,g,j]	3.24	±	0.51[i]
PCB	183	(2,2',3,4,4',5',6-Heptachlorobiphenyl)[c,d,e,j]	0.979	±	0.087[h]
PCB	187	(2,2',3,4',5,5',6-Heptachlorobiphenyl)[c,d,e,f,g,j]	2.17	±	0.22[i]
PCB	194	(2,2',3,3',4,4',5,5'-Octachlorobiphenyl)[c,d,e,j]	1.04	±	0.06[h]
PCB	195	(2,2',3,3',4,4',5,6-Octachlorbiphenyl)[c,e,g,j]	0.645	±	0.060[i]
PCB	201	(2,2',3,3',4,5',6,6'-Octachlorobiphenyl)[c,e,j]	0.777	±	0.034[h]
PCB	206	(2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl)[c,e,f,g,j]	2.42	±	0.19[i]
PCB	209	Decachlorobiphenyl[c,d,e,f,g,j]	4.86	±	0.45[i]

[a] PCB congeners are numbered according to the scheme proposed by Ballschmiter and Zell [9] and later revised by Schulte and Malisch [10] to conform to IUPAC rules, except PCB 201. Under the Ballschmiter and Zell numbering system, the IUPAC PCB 201 is listed as PCB 200.

[b] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

[c] GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

[d] GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.

[e] GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).

[f] GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.

[g] 1999 Interlaboratory Comparison Study [7] with 13 to 31 laboratories submitting data for each PCB congener.

[h] Certified values are unweighted means of the results from three to five analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[i] Certified values are weighted means of the results from three to six analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[j] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).

Table 3. Certified Mass Fraction Values for Chlorinated Pesticides in SRM 1941b

Chlorinated Pesticides	Mass Fractions[a] (µg/kg)
Hexachlorobenzene[b,c,d,e]	5.83 ± 0.38[f]
cis-Chlordane[b,c,d,e,g]	0.85 ± 0.11[h]
trans-Chlordane[b,c,e]	0.566 ± 0.093[f]
cis-Nonachlor[b,e,g]	0.378 ± 0.053[h]
trans-Nonachlor[b,c,d,e,g]	0.438 ± 0.073[f]
4,4'-DDE[b,d,e,g]	3.22 ± 0.28[h]
4,4'-DDD[b,d,e,g]	4.66 ± 0.46[h]

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.
[c] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).
[d] GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.
[e] 1999 Interlaboratory Comparison Study [7] with 13 to 31 laboratories submitting data for each pesticide.
[f] Certified values are unweighted means of the results from three to five analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[g] GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.
[h] Certified values are weighted means of the results from three to five analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the chlorinated pesticides listed and the values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table 4. Reference Mass Fraction Values for PAHs in SRM 1941b

PAHs	Mass Fractions[a] (µg/kg)		
1-Methylnaphthalene[b,c,d,e]	127	±	14[f]
2-Methylnaphthalene[b,c,d,e]	276	±	53[f]
2,6-Dimethylnaphthalene[b,c,d,e]	75.9	±	4.5[f]
2,3,5-Trimethylnaphthalene[b,c,d,e]	25.5	±	5.1[f]
Biphenyl[b,c,d,e]	74.0	±	8.0[f]
Acenaphthylene[b,c,d,e]	53.3	±	6.4[f]
Acenaphthene[b,c,d,e]	38.4	±	5.2[f]
9-Methylphenanthrene[c]	63.5	±	2.5[g]
4-Methylphenanthrene and 9-Methylphenanthrene[b,d]	80.1	±	4.8[f]
2-Methylanthracene[c,d]	36	±	15[f]
8-Methylfluoranthene[b]	49.5	±	2.7[g]
7-Methylfluoranthene[b]	45.4	±	1.5[g]
1-Methylfluoranthene[b]	42.4	±	2.1[g]
3-Methylfluoranthene[b]	28.8	±	1.3[g]
2-Methylpyrene[b]	78.7	±	4.0[g]
4-Methylpyrene[b]	66.4	±	2.6[g]
1-Methylpyrene[b]	52.5	±	2.3[g]
Acephenanthrene[d]	30.5	±	1.9[g]
Benzo[*c*]phenanthrene[b,c,d]	58	±	15[f]
Benzo[*a*]fluoranthene[b,c,d]	73	±	18[f]
Benzo[*j*]fluoranthene[c]	217	±	5[g]
Indeno[1,2,3-*cd*]fluoranthene[d]	9.63	±	0.34[g]
Pentaphene[d]	25.3	±	1.0[g]

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] GC/MS (I) on 5 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.
[c] GC/MS (II) on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.
[d] GC/MS (III) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.
[e] 1999 Interlaboratory Comparison Study [7] with 14 to 26 laboratories submitting data for each PAH.
[f] Reference values are weighted means of the results from two to four analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of PAHs listed as determined by the methods indicted. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[g] Reference values are the means of results obtained by NIST using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k, is determined from the Student's t-distribution for the associated degrees of freedom (19 for footnote b and 5 for footnotes c and d) and 95 % confidence level for each analyte. The measurand is the total mass fraction of the PAHs listed as determined by the method indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table 5. Reference Mass Fraction Values for PAHs of Molecular Mass 300 and 302 in SRM 1941b

PAHs of Molecular Mass 300 and 302	Mass Fractions[a,b,c] (µg/kg)		
Coronene	72.6	±	4.7
Dibenzo[*b,e*]fluoranthene	10.3	±	0.3
Naphtho[1,2-*b*]fluoranthene	91.0	±	3.1
Naphtho[1,2-*k*]fluoranthene and Naphtho[2,3-*j*]fluoranthene	79.8	±	2.5
Naphtho[2,3-*b*]fluoranthene	23.5	±	0.3
Dibenzo[*b,k*]fluoranthene	95.6	±	3.1
Dibenzo[*a,k*]fluoranthene	26.6	±	0.4
Dibenzo[*j,l*]fluoranthene	63.8	±	1.8
Dibenzo[*a,l*]pyrene	11.1	±	1.0
Naphtho[2,3-*k*]fluoranthene	10.7	±	0.6
Naphtho[1,2-*a*]pyrene	16.7	±	1.4
Naphtho[2,3-*e*]pyrene	33.2	±	2.3
Dibenzo[*a,e*]pyrene	76.1	±	3.6
Naphtho[2,1-*a*]pyrene	59.2	±	1.8
Dibenzo[*e,i*]pyrene	35.0	±	2.4
Naphtho[2,3-*a*]pyrene	16.5	±	0.6
Benzo[*b*]perylene	38.2	±	1.2
Dibenzo[*a,i*]pyrene	25.5	±	1.0
Dibenzo[*a,h*]pyrene	6.94	±	0.29

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

[b] Reference values are the means of results obtained by NIST using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k, is determined from the Student's t-distribution for two degrees of freedom and 95 % confidence level for each analyte. The measurand is the total mass fraction of the constituent listed as determined by the method indicted. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[c] GC/MS on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM [8].

Table 6. Reference Mass Fraction Values for PCB Congeners[a] in SRM 1941b

PCB Congeners			Mass Fractions[b,c] (µg/kg)		
PCB	45	(2,2',3,6-Tetrachlorobiphenyl)[d,e]	0.73	±	0.12
PCB	56	(2,3,3',4'-Tetrachlorobiphenyl)[d,f,g]	1.21	±	0.11
PCB	63	(2,3,4',5-Tetrachlorobiphenyl)[e,f,g]	0.213	±	0.040
PCB	70	(2,3',4',5-Tetrachlorobiphenyl)[e,f,g]	4.99	±	0.29
PCB	74	(2,4,4',5-Tetrachlorobiphenyl)[e,f,g]	2.04	±	0.15
PCB	77	(3,3',4,4'-Tetrachlorobiphenyl)[h]	0.31	±	0.03
PCB	107	(2,3,3',4',5-Pentachlorobiphenyl)[d,e,f,g]	0.628	±	0.028
PCB	132	(2,2',3,3',4,6'-Hexachlorobiphenyl)[d,f,g]	1.28	±	0.27
PCB	146	(2,2',3,4',5,5'-Hexachlorobiphenyl)[e,f,g]	1.22	±	0.12
PCB	158	(2,3,3',4,4',6-Hexachlorobiphenyl)[d,e,f,g]	0.65	±	0.15
PCB	163	(2,3,3',4',5,6-Hexachlorobiphenyl)[e,f,g]	1.28	±	0.06
PCB	174	(2,2',3,3',4,5,6'-Heptachlorobiphenyl)[d,e,f,g]	1.51	±	0.39
PCB	193	(2,3,3',4',5,5',6-Heptachlorobiphenyl)[d,e,f,g]	0.292	±	0.075

[a] PCB congeners are numbered according to the scheme proposed by Ballschmiter and Zell [9] and later revised by Schulte and Malisch [10] to conform with IUPAC rules, except PCB 107. Under the Ballschmiter and Zell numbering system, the IUPAC PCB 107 is listed as PCB 108.

[b] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

[c] For these PCB congeners except PCB 77, the reference values are unweighted means of the results from two to four analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled within-method variance following the ISO/JCGM Guide [14,15]. For PCB 77, the reference value is the mean of results obtained by NIST using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k, is determined from the Student's t-distribution corresponding to two degrees of freedom and 95 % confidence level for PCB 77. The measurand is the total mass fraction of the PCB Congeners listed as determined by the method or methods indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as microgram per kilogram on a dry-mass basis.

[d] GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.

[e] GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).

[f] GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

[g] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).

[h] GC/MS NICI on a 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC-ECD (I) fractionated using a PYE column.

Table 7. Reference Mass Fraction Values for Selected Chlorinated Pesticides in SRM 1941b

Chlorinated Pesticides	Mass Fractions[a,b] (µg/kg)		
2,4'-DDE[c,d]	0.38	±	0.12
4,4'-DDT[e,f]	1.12	±	0.42

[a] Mass Fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] The reference values are unweighted means of the results from two analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the chlorinated pesticides listed as determined by the methods indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[c] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).
[d] GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).
[e] GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.
[f] 1999 Interlaboratory Comparison Study [7] with 10 laboratories submitting data for 4,4'-DDT.

Table 8. Reference Mass Fraction Values for Alkylated PAH Groups in SRM 1941b

Alkylated PAH Group	Mass Fraction[a,b] (µg/kg)		
C2-decalins	18	±	5
C4-decalins	41	±	4
C2-naphthalenes	187	±	53
C3-naphthalenes	158	±	42
C1-benzothiophenes	25	±	14
C2-benzothiophenes	20	±	11
C3-benzothiophenes	22	±	13
C4-benzothiophenes	18	±	5
C1-fluorenes	57	±	18
C2-fluorenes	122	±	43
C3-fluorenes	128	±	31
C1-phenanthrenes/anthracenes	313	±	99
C2-phenanthrenes/anthracenes	247	±	62
C3-phenanthrenes/anthracenes	165	±	46
C4-phenanthrenes/anthracenes	87	±	36
C1-dibenzothiophenes	54	±	13
C2-dibenzothiophenes	91	±	18
C3-dibenzothiophenes	84	±	15
C4-dibenzothiophenes	57	±	13
C1-fluoranthenes/pyrenes	252	±	48
C2-fluoranthenes/pyrenes	205	±	38
C3-fluoranthenes/pyrenes	102	±	22
C4-fluoranthenes/pyrenes	121	±	59
C1-benzanthraces/chrysenes/triphenylenes	208	±	43
C2-benzanthraces/chrysenes/triphenylenes	120	±	24
C3-benzanthraces/chrysenes/triphenylenes	73	±	31
C4-benzanthraces/chrysenes/triphenylenes	41	±	11

[a] The reference mass fraction value reported on a dry-mass basis is the median of results using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the median, and the coverage factor, $k = 2$. The measurand is the total mass fraction of the alkylated PAH groups listed as determined by the interlaboratory study methods. The values listed are metrologically traceable to the SI unit of mass fraction, expressed as micrograms per kilogram on a dry-mass basis.
[b] Data from the interlaboratory study [12].

Table 9. Reference Mass Fraction Values for Hopanes and Steranes in SRM 1941b

Hopane or Sterane	Mass Fraction[a,b] (µg/kg)
17α(H)-22,29,30-Trisnorhopane	54 ± 18
17α(H)-21β(H)-30-Norhopane	137 ± 21
17α(H)-21β(H)-30-Hopane	215 ± 44
17α(H)-21β(H)-22R-Homohopane	44 ± 10
17α(H)-21β(H)-22S-Homohopane	48 ± 13
5α(H)-14α(H),17α(H)-Cholestane 20R	41 ± 11
5α(H)-14β(H),17β(H)-Cholestane 20R	27 ± 6
5α(H)-14β(H),17β(H)-24-Methylcholestane 20R	21 ± 8
5α(H)-14α(H),17α(H)-24-Ethylcholestane 20R	19 ± 5
5α(H)-14β(H),17β(H)-24-Ethylcholestane 20R	41 ± 9

[a] The reference mass fraction value reported on a dry-mass basis is the median of results using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the median, and the coverage factor, $k = 2$. The measurand is the total mass fraction of the constituent listed as determined by the methods used during the interlaboratory study. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[b] Data from the interlaboratory study [12].

Table 10. Reference Mass Fraction Value for Total Organic Carbon in SRM 1941b

Total Organic Carbon (TOC)	2.99 % ± 0.24 %[a,b]

[a] Mass fraction is reported on a dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] The reference value for total organic carbon is a weighted mean value from routine measurements made by two laboratories [21]. The uncertainty listed is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance. The reporting follows the ISO/JCGM Guides [2]. The measurand is the total mass fraction of TOC listed as determined by the methods indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as a percent on a dry-mass basis.

Table 11. Information Mass Fraction Values for Carbon, Hydrogen, and Nitrogen in SRM 1941b

Elements	Mass Fractions[a] (%)
Carbon	3.3
Hydrogen	1.2
Nitrogen	<0.5

[a] Mass fraction is reported on a dry-mass basis; material as received contains approximately 2.4 % moisture.

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Certificate Revision History: 16 January 2015 (Corrected IUPAC name for PCB-56 and PCB-107; editorial changes); 10 June 2014 (Units corrected from mg/kg to µg/kg in Tables 8 and 9; editorial changes); 10 April 2012 (Reference value added for alkylated PAH groups, hopanes, and steranes; extension of certification period; editorial changes); 16 August 2004 (Reference values for the butyl tins removed; editorial changes); 15 July 2002 (Original certificate date).

Users of this SRM should ensure that the Certificate of Analysis in their possession is current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; fax (301) 948-3730; e-mail srminfo@nist.gov; or via the Internet at http://www.nist.gov/srm.

APPENDIX A

The laboratories listed below performed measurements that contributed to the certification of PAHs, PCBs, and chlorinated pesticides in SRM 1941b Organics in Marine Sediment.

Arthur D. Little, Inc; Cambridge, MA
Axys Analytical Services; Sidney, BC, Canada
B & B Laboratories; College Station, TX
Battelle Ocean Sciences; Duxbury, MA
Bedford Institute of Oceanography; Dartmouth, NS, Canada
California Department of Fish and Game; Rancho Cordova, CA
Central Contra Costa Sanitary District; Martinez, CA
Chesapeake Biological Laboratory; Solomons, MD
Centro de Investigacionies Energeticas Medioambientales y Tecnologicas; Madrid, Spain
City of Los Angeles Environmental Monitoring Division; Playa del Rey, CA
City of San Jose Environmental Services Department; San Jose, CA
Columbia Analytical Services; Kelso, WA
East Bay Municipal Utility District; Oakland, CA
Florida Department of Environmental Protection; Tallahassee, FL
Manchester Environmental Laboratory; Port Orchard, WA
Murray State University; Murray, KY
Massachusetts Water Resources Authority Central Lab; Winthrop, MA
National Research Council of Canada; Ottawa, Ontario, Canada
National Oceanic and Atmospheric Association (NOAA), National Marine Fisheries Service (NMFS), Auke Bay Laboratory; Juneau, AK
NOAA, National Ocean Service/Center for Coastal Environmental Health and Biomolecular Research; Charleston, SC
NOAA, NMFS, Sandy Hook Marine Laboratory; Highlands, NJ
NOAA, NMFS, Northwest Fisheries Science Center; Seattle, WA
Orange County Sanitation District; Fountain Valley, CA
Philip Analytical Services; Burlington, Ontario, Canada
Serv de Hidrografia Naval; Buenos Aires, Argentina
Skidaway Institute of Technology; Savannah, GA
Southwest Laboratory of Oklahoma; Broken Arrow, OK
Severn Trent Knoxville Laboratory; Knoxville, TN
Texas A&M University, Geochemical and Environmental Research Group; College Station, TX
Texas Parks and Wildlife Department; San Marcos, TX
University of California at Los Angeles, Institute of Geophysics and Planetary Physics; Los Angeles, CA
University of Connecticut, Environmental Research Institute; Storrs, CT
University of Rhode Island, Graduate School of Oceanography; Narragansett, RI
US Department of Agriculture, Environmental Chemistry Laboratory; Beltsville, MD
US Environmental Protection Agency, Atlantic Ecology Division; Narragansett, RI
US Geological Survey, National Water Quality Laboratory; Denver, CO
Woods Hole Group Environmental Lab; Raynham, MA
Wright State University; Dayton, OH

APPENDIX B

The laboratories listed below performed measurements that contributed to the certification of alkylated PAH groups, hopanes, and steranes in SRM 1941b Organics in Marine Sediment.

Alpha Analytical, Inc.; Mansfield, MA
Analytical Resources, Inc.; Tukwila, WA
Axys Analytical Services; Sydney, BC, Canada
Battelle Analytical & Environmental Chemistry Laboratory; Duxbury, MA
Center for Laboratory Sciences; Pasco, WA
Columbia Analytical Services; Jacksonville, FL
Columbia Analytical Services; Rochester, NY
Columbia Analytical Services, Kelso, WA
Florida Department of Environmental Protection; Tallahassee, FL
Florida International University; North Miami, FL
Michigan Department of Natural Resources and Environment; Lansing, MI
Mississippi State Chemical Laboratory; Mississippi State, MS
NIST; Charleston, SC
NIST; Gaithersburg, MD
NOAA/NCCOS/NOS; Charleston, SC
NOAA/NMFS/Alaska Fisheries Science Center; Juneau, AK
NY State Department of Health; Albany, NY
Pace Analytical Services, Inc. Minneapolis; Minneapolis, MN
RJ Lee Group, Inc; Monroeville, PA
TDI/B&B Laboratories, Inc.; College Station, TX
TestAmerica Laboratories; Mobile, AL
TestAmerica Laboratories; West Sacramento, CA
TestAmerica Laboratories; University Park, IL
TestAmerica Laboratories; Schriever, LA
TestAmerica Laboratories; Edison, NJ
TestAmerica Laboratories; Knoxville, TN
TestAmerica Laboratories; Pittsburgh, PA
TestAmerica Laboratories; South Burlington, VT
TestAmerica Laboratories; Tacoma, WA
US Army Engineer Research and Development Center; Vicksburg, MS
USGS Columbia Environmental Research Center; Columbia, MO
University of Iowa, State Hygienic Laboratory; Iowa City, IO
Washington State Public Health Laboratories; Shoreline, WA

NIST

Date of Issue:
31 March 2014

SAFETY DATA SHEET

1. Substance and Source Identification

Product Identifier

SRM Number: 1941b
SRM Name: Organics in Marine Sediment
Other Means of Identification: Not applicable.

Recommended Use of This Material and Restrictions of Use

This Standard Reference Material (SRM) is marine sediment collected at the mouth of the Baltimore (MD) Harbor. SRM 1941b is intended for use in evaluating analytical methods for the determination of selected polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and chlorinated pesticides in marine sediment and similar matrices. All of the constituents for which certified, reference, and information values are provided in SRM 1941b were naturally present in the sediment before processing. A unit of SRM 1941b consists of a bottle containing 50 g of radiation-sterilized, freeze-dried sediment.

Company Information

National Institute of Standards and Technology
Standard Reference Materials Program
100 Bureau Drive, Stop 2300
Gaithersburg, Maryland 20899-2300

Telephone: 301-975-2200
FAX: 301-948-3730
E-mail: SRMMSDS@nist.gov
Website: http://www.nist.gov/srm

Emergency Telephone ChemTrec:
1-800-424-9300 (North America)
+1-703-527-3887 (International)

2. Hazards Identification

Classification

Physical Hazard: Not classified.
Health Hazard: Not classified.

Label Elements
Symbol
No Symbol/Pictogram

Signal Word
Not applicable.

Hazard Statement(s): Not applicable.

Precautionary Statement(s): Not applicable.

Hazards Not Otherwise Classified: Not applicable.

Ingredients(s) with Unknown Acute Toxicity: Not applicable.

3. Composition and Information on Hazardous Ingredients

Substance: Marine sediment

Other Designations: Sediment.

This material is naturally occurring marine sediment from an urban area. The material contains trace amounts of polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and should be handled with care. Components are listed in compliance with OSHA's 29 CFR 1910.1200; for the actual values see the Certificate of Analysis.

Hazardous Component(s)	CAS Number	EC Number (EINECS)	Nominal Mass Concentration (%)
Marine Sediment	Not available	Not available	100

4. First Aid Measures

Description of First Aid Measures:

Inhalation: If adverse effects occur, remove to uncontaminated area. If not breathing, give artificial respiration or oxygen by qualified personnel. Seek immediate medical attention.

Skin Contact: Wash skin with soap and water.

Eye Contact: Flush eyes with water for at least 15 minutes. If necessary, seek medical attention.

Ingestion: If adverse effects occur after ingestion, seek medical treatment.

Most Important Symptoms/Effects, Acute and Delayed: May cause irritation.

Indication of any immediate medical attention and special treatment needed, if necessary: If any of the above symptoms are present, seek medical attention if needed.

5. Fire Fighting Measures

Fire and Explosion Hazards: Negligible fire hazard. Avoid generating dust. See Section 9, "Physical and Chemical Properties" for flammability properties.

Extinguishing Media:
Suitable: Use extinguishing media appropriate for surrounding fire.
Unsuitable: None listed.

Specific Hazards Arising from the Chemical: None listed.

Special Protective Equipment and Precautions for Fire-Fighters: Avoid inhalation of material or combustion byproducts. Wear full protective clothing and NIOSH approved self-contained breathing apparatus (SCBA).

NFPA Ratings (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

Health = 1 Fire = 0 Reactivity = 0

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Any accumulated material on surfaces should be removed and properly disposed of. Use suitable protective equipment; see Section 8, "Exposure Controls and Personal Protection".

Methods and Materials for Containment and Clean up: Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area and deny entry.

7. Handling and Storage

Safe Handling Precautions: Minimize dust generation and accumulation on surfaces. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. See Section 8, "Exposure Controls and Personal Protection".

Storage: Store and handling in accordance with all current regulations and standards.

8. Exposure Controls and Personal Protection

Exposure Limits: No occupational exposure limits have been established for marine sediment. This material is a particulate matter and adequate inhalation/respiratory protection should be used to minimize exposure. The exposure limits for Particulates Not Otherwise Regulated (PNOR) are applicable.

OSHA (PEL): 15 mg/m^3 (TWA, total particulates not otherwise regulated)
OSHA (PEL) 5 mg/m^3 (TWA, respirable particulates not otherwise regulated)

NIOSH (REL): 10 mg/m^3 (TWA, total particulates not otherwise regulated, 8 h)
NIOSH (REL): 5 mg/m^3 (TWA, respirable particulates not otherwise regulated)

Engineering Controls: Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Personal Protection: In accordance with OSHA 29 CFR 1910.132, subpart I, wear appropriate Personal Protective Equipment (PPE) to minimize exposure to this material.

Respiratory Protection: If workplace conditions warrant a respirator, a respiratory protection program that meets OSHA 29CFR 1910.134 must be followed. Refer to NIOSH 42 CFR 84 for applicable certified respirators.

Eye/Face Protection: Wear splash resistant safety goggles with a face shield. An eye wash station should be readily available near areas of use.

Skin and Body Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Chemical-resistant gloves should be worn at all times when handling chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Descriptive Properties:

Appearance (physical state, color, etc.):	amorphous powder
Molecular Formula:	not applicable
Molar Mass (g/mol):	not applicable
Odor:	not available
Odor threshold:	not available
pH:	not available
Evaporation rate:	not applicable
Melting point/freezing point (°C):	not available
Specific Gravity (water=1)	not available
Vapor Pressure (mmHg):	not applicable
Vapor Density (air = 1):	not applicable
Viscosity (cP):	not applicable
Solubility(ies):	not available
Partition coefficient (n-octanol/water):	not available
Particle Size:	<150 µm

Thermal Stability Properties:

Autoignition Temperature (°C):	not available
Thermal Decomposition (°C):	not available
Initial boiling point and boiling range (°C):	not available
Explosive Limits, LEL (Volume %):	not available
Explosive Limits, UEL (Volume %):	not available
Flash Point (°C):	not available
Flammability (solid, gas):	not available

10. STABILITY AND REACTIVITY

Reactivity: Stable at normal temperatures and pressure.

Stability: X Stable _____ Unstable

Possible Hazardous Reactions: None listed.

Conditions to Avoid: Avoid generating dust.

Incompatible Materials: None listed.

Fire/Explosion Information: See Section 5, "Fire Fighting Measures".

Hazardous Decomposition: Thermal decomposition will produce oxides of carbon.

Hazardous Polymerization: _____ Will Occur X Will Not Occur

11. TOXICOLOGICAL INFORMATION

Route of Exposure: __X__ Inhalation __X__ Skin _____ Ingestion

Symptoms Related to the Physical, Chemical and Toxicological Characteristics: Generated dust may cause irritation if inhaled.

Potential Health Effects (Acute, Chronic and Delayed):

Inhalation: Generated dust may cause irritation.

Skin Contact: May cause mechanical irritation.

Eye Contact: May cause mechanical irritation.

Ingestion: No data available.

Numerical Measures of Toxicity:

Acute Toxicity: Not classified; no data available.

Skin Corrosion/Irritation: Not classified; no data available.

Serious Eye damage/ Eye irritation: Not classified; no data available.

Respiratory Sensitization: Not classified; no data available.

Skin Sensitization: Not classified; no data available.

Germ Cell Mutagenicity: Not classified; no data available.

Carcinogenicity: Not classified.

Listed as a Carcinogen/Potential Carcinogen _____ Yes __X__ No
Marine sediment is not listed by NTP, IARC or OSHA as a carcinogen.

Reproductive Toxicity: Not classified; no data available.

Specific Target Organ Toxicity, Single Exposure: Not classified; no data available.

Specific Target Organ Toxicity, Repeated Exposure: Not classified; no data available.

Aspiration Hazard: Not classified; no data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity Data: No data available.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse effects: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of waste in accordance with all applicable federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT and IATA: Not regulated by DOT or IATA.

15. REGULATORY INFORMATION

U.S. Regulations:

CERCLA Sections 102a/103 (40 CFR 302.4): Not regulated.

SARA Title III Section 302 (40 CFR 355.30): Not regulated.

SARA Title III Section 304 (40 CFR 355.40): Not regulated.

SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21):

ACUTE HEALTH:	No.
CHRONIC HEALTH:	No.
FIRE:	No.
REACTIVE:	No.
PRESSURE:	No.

State Regulations:
California Proposition 65: Not listed.

U.S. TSCA Inventory: Not listed.

TSCA 12(b), Export Notification: Not listed.

Canadian Regulations:
WHMIS Information: Not provided for this material.

16. OTHER INFORMATION

Issue Date: 31 March 2014

Sources: 29 CFR Occupational Health and Safety Office (OSHA) 1910.1000, *Limits for Air Contaminants*, Table Z-1; available at http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=9992 (accessed Mar 2014).

Center for Disease Control (CDC) NIOSH Pocket Guide to Chemical Hazards, *Particulates not otherwise regulated*; available at http://www.cdc.gov/niosh/npg/npgd0480.html (accessed Mar 2014).

Key of Acronyms:

ACGIH	American Conference of Governmental Industrial Hygienists	NRC	Nuclear Regulatory Commission
ALI	Annual Limit on Intake	NTP	National Toxicology Program
CAS	Chemical Abstracts Service	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
CFR	Code of Federal Regulations	RCRA	Resource Conservation and Recovery Act
DOT	Department of Transportation	REL	Recommended Exposure Limit
EC50	Effective Concentration, 50 %	RM	Reference Material
EINECS	European Inventory of Existing Commercial Chemical Substances	RQ	Reportable Quantity
EPCRA	Emergency Planning and Community Right-to-Know Act	RTECS	Registry of Toxic Effects of Chemical Substances
IARC	International Agency for Research on Cancer	SARA	Superfund Amendments and Reauthorization Act
IATA	International Air Transportation Agency	SCBA	Self-Contained Breathing Apparatus
IDLH	Immediately Dangerous to Life and Health	SRM	Standard Reference Material
LC50	Lethal Concentration, 50 %	STEL	Short Term Exposure Limit
LD50	Lethal Dose, 50 %	TLV	Threshold Limit Value
LEL	Lower Explosive Limit	TPQ	Threshold Planning Quantity
MSDS	Material Safety Data Sheet	TSCA	Toxic Substances Control Act
NFPA	National Fire Protection Association	TWA	Time Weighted Average
NIOSH	National Institute for Occupational Safety and Health	UEL	Upper Explosive Limit
NIST	National Institute of Standards and Technology	WHMIS	Workplace Hazardous Materials Information System

Disclaimer: Physical and chemical data contained in this SDS are provided only for use in assessing the hazardous nature of the material. The SDS was prepared carefully, using current references; however, NIST does not certify the data in the SDS. The certified values for this material are given in the NIST Certificate of Analysis.

Users of this SRM should ensure that the SDS in their possession is current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; fax (301) 948-3730; e-mail SRMINFO@nist.gov; Internet at http://www.nist.gov/srm.

Bill to:	Ship to:
68455 DAVE MITCHELL ANALYTICAL RESOURCES INC 4611 S 134TH PLACE SUITE 100 TUKWILA, WA 98168-3240 1 (206)695-6205	68456 DAVE MITCHELL ANALYTICAL RESOURCES INC 4611 S 134TH PLACE SUITE 100 TUKWILA, WA 98168-3240 1 (206)695-6205

Ship via	UPS Ground	Description		Ship from	
Salesmen	MCMIDM2	Instructions		Blanket	
Contact	DAVE MITCHELL	Pro#		Truck#	

Order discrepancies (other than back ordered items) must be reported to our Customer Relations Department at 301-975-6776 within 5 days of receipt of shipment or this order will be considered complete. NIST SRMs/RMs are generally not returnable - with the exception of defective goods or shipments made in error by NIST. To return a SRM/RM, please call for instructions and a Return SRM/RM Authorization Number before shipment. Returns WILL NOT BE ACCEPTED without prior authorization.

Order	UOM	Ship	UOM	B/O	UOM	Item	Description
1	EACH	1	EACH	0	EACH	1941B	Organics in Marine Sediment
						Total qty:	1 / EACH
							NOT FOR HUMAN CONSUMPTION, LABORATORY USE ONLY.

9/21/16
04:04 PM

1700101

Picked by	
Packed by	
# of pieces	
Weight	

MP Biomedicals, LLC

29525 Fountain Parkway
Solon, Ohio 44139

Telephone: 440/337-1200
Toll Free: 800/854-0530

Fax: 440/337-1180
web: www.mpbio.com

Certificate of Analysis

Product Description: Microcrystalline Cellulose Powder_
Catalog Number: 191499_
Lot: Q9483_

Formula: $(C_6H_{10}O_5)n$	**Formula Weight:** N/A
CAS #: 9004-34-6	**Storage:** 15 - 30°C
Physical Description: White Powder	

Test	Specification	Result
Identity Test	Passes	Passes
Purity	97.0 - 102.0%	97.0 - 102.0%
Moisture	<5.0%	3.4%
Particle Size/Mesh +60 mesh +200 mesh	Wt % <8% >45%	 <1% 55%
pH	5 - 7	6.73
Residue on Ignition	<0.05%	<0.05%
Water Soluble Substances	<12.0 mg/5 g	4.5 mg/5 g
Heavy Metals	<10 ppm	<10 ppm

H001822
Microcrystalline Cellulose Powder (TOC)
Expires 11/30/2022
Prepared By Casey English 2/22/2019

Identification A & B: Passes
Bulk Density: 0.29 g/ml
Bulk Density (graduated cylinder): 0.31 g/ml
Conductivity: 18 µS/cm
Starch: Negative
Ether Soluble Substances: 0.01%
Total Aerobic microbial Count: 100 cfu/g
Total Mold and Yeast Count: 20 cfu/g
Staphylococcus aureus: Absent/1 g
Pseudomonas aeruginosa: Absent/1 g
E. coli: Absent/1 g
Salmonella: Absent/10 g
Particle size:

- 450 mesh: 77%
- d10: 37 um
- d50: 139 um
- d90: 271 um

TUP: <9/600 cm^2
Degree of brightness: >88%
Powder flow-angle of repose: <42°
Recommended Retest Date: 11/30/2022

07/26/2018 - *John Huang, PhD*
MP Biomedicals, LLC.
Quality Control Manager

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This is an electronically generated document
mailto:biotech@mpbio.com
http://www.mpbio.com
Online Ordering, MSDSs, certificates of analysis and data sheets now available on our web site
Technical Service: 1-800-279-5490 (440-337-1200) Customer Service: 1-800-854-0530 (440-337-1200)

TOTAL SOLIDS BENCHSHEET							Batch:	BLC0852
Method: PSEP 1986							Date:	3/31/2023 12:42
(dry at 103-105 C)							Analyst:	CR
Instrumentation							Drying Oven:	15
							Analytical Balance:	B13298002

Batch drying time			Oven Temp, C	TS (%) calculated as:	Oven Temps, °C	
Record times as mm/dd/yy hh:mm						
Date/time in oven:	3/31/2023 13:37		102	Final dry wt (g) = (Dry Wt - Tare Wt)	Start Temp:	102
Date/time out:	4/3/2023 7:20		98	TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)	End Temp:	98
Elapsed hrs:	65.7	> 24 hr				

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
23C0752-01	0.8900	11.3400	6.1400	5.25	**50.24%**	Yes
23C0752-02	0.8100	11.2200	5.9800	5.17	**49.66%**	Yes
23C0752-03	0.8000	11.4000	6.1700	5.37	**50.66%**	Yes
23C0752-04	0.8100	11.5300	6.4600	5.65	**52.71%**	Yes
23C0752-05	0.8100	12.0000	6.6400	5.83	**52.10%**	Yes
23C0752-06	0.8100	11.0200	5.5800	4.77	**46.72%**	Yes
23C0752-07	0.8100	11.8400	6.4700	5.66	**51.31%**	Yes

All done !!

TOTAL SOLIDS BENCHSHEET

Method: PSEP 1986

(dry at 103-105 C)

Batch:	BLC0852
Date:	3/31/2023 12:42
Analyst:	CR
Drying Oven:	OL5
Analytical Balance:	B13929 JC002

Instrumentation

Batch drying time

Record times as mm/dd/yy hh:mm			Oven Temp, C
Date/time in oven:	3/31/23	13:37	102
Date/time out:	4/3/23	7:20	98
Elapsed hrs:	0.0		

TS (%) calculated as:

Final dry wt (g) = (Dry Wt - Tare Wt)

TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)

Oven Temps, °C	
Start Temp:	102
End Temp:	98

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
23C0752-01 A	0.89	11.34	6.14			~~No~~ yes
23C0752-02	0.81	11.22	5.98			~~No~~ yes
23C0752-03	0.80	11.40	6.17			~~No~~ yes
23C0752-04	0.81	11.53	6.46			~~No~~ yes
23C0752-05	0.81	12.00	6.64			~~No~~ yes
23C0752-06	0.81	11.02	5.85			~~No~~ yes
23C0752-07 A	0.81	11.84	6.47			~~No~~ yes

T/S + Screens
2 copies